

From: [Schwartz, Melissa A](#)
To: [Sanchez, Alexandra L](#); [Daniel-Davis, Laura E](#)
Subject: RE: [EXTERNAL] Oil and gas report
Date: Friday, December 10, 2021 11:37:01 AM

Thanks!!

From: Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>
Sent: Friday, December 10, 2021 11:36 AM
To: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>; Daniel-Davis, Laura E <laura_daniel-davis@ios.doi.gov>
Subject: Re: [EXTERNAL] Oil and gas report

If they download the pdf and are looking in acrobat they can right click and they open.
Let me know if that helps!
Alex

From: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>
Sent: Friday, December 10, 2021 10:33:51 AM
To: Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>; Daniel-Davis, Laura E <laura_daniel-davis@ios.doi.gov>
Subject: FW: [EXTERNAL] Oil and gas report

Happy to no comment but the attachments?

From: Heather Richards <hrichards@eenews.net>
Sent: Friday, December 10, 2021 10:22 AM
To: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>; Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>
Subject: Re: [EXTERNAL] Oil and gas report

Good morning!

Would DOI care to comment on the record regarding the release of these public comments? I do also have two specific questions: Why are the attachments not included in this cache? I can see many public comments submitted by organizations or individuals as attachments, but only can see the email. Also, were there any hard copies or letters also submitted during the review? All I see are emails.

Thank you. I'm writing something to a noon EST deadline.

Heather

From: "Schwartz, Melissa A" <melissa_schwartz@ios.doi.gov>

Date: Thursday, December 9, 2021 at 5:45 PM

To: Heather Richards <hrichards@eenews.net>, Interior Press <interior_press@ios.doi.gov>, "Cherry, Tyler A" <tyler_cherry@ios.doi.gov>

Subject: RE: [EXTERNAL] Oil and gas report

EXTERNAL SENDER: Use caution with links and attachments.

Nothing for the record, let me know if you are interested in something on background

From: Heather Richards <hrichards@eenews.net>

Sent: Thursday, December 9, 2021 5:16 PM

To: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>; Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>

Subject: Re: [EXTERNAL] Oil and gas report

Appreciate it. Can you guys tell me why there was a delay?

From: "Schwartz, Melissa A" <melissa_schwartz@ios.doi.gov>

Date: Thursday, December 9, 2021 at 4:46 PM

To: Heather Richards <hrichards@eenews.net>, Interior Press <interior_press@ios.doi.gov>, "Cherry, Tyler A" <tyler_cherry@ios.doi.gov>

Subject: RE: [EXTERNAL] Oil and gas report

EXTERNAL SENDER: Use caution with links and attachments.

Heather – apologies for the delay! The materials are posted here: <https://www.doi.gov/foia/os/oil-and-gas-records>

FYI, you are the only reporter who has this right now

From: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>

Sent: Sunday, November 28, 2021 2:00 PM

To: 'Heather Richards' <hrichards@eenews.net>; Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>

Subject: RE: [EXTERNAL] Oil and gas report

Happy Sunday –

The team is working to post on the agency's FOIA site early this week. We will circle back when I get an update.

Thanks

From: Heather Richards <hrichards@eenews.net>

Sent: Sunday, November 28, 2021 9:27 AM

To: Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>; Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>

Subject: [EXTERNAL] Oil and gas report

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Hey,

Is there a place I can review the public comments that Interior took in the preparation of the oil and gas report released Friday?

Thank you,

Heather

From: [Culver, Nada L](#)
To: [Daniel-Davis, Laura E](#); [Feldgus, Steven H](#); [Sanchez, Alexandra L](#)
Subject: FW: [EXTERNAL] Conservation groups urge Haaland to reform oil and gas leasing
Date: Monday, September 20, 2021 12:05:49 AM
Attachments: [image002.png](#)

Not sure if you've all seen this already but figured it couldn't hurt to share.

Nada Wolff Culver
Deputy Director, Policy and Programs
Bureau of Land Management
nculver@blm.gov
202-255-6979

From: Kelly, Katherine P <Kate_Kelly@ios.doi.gov>
Sent: Saturday, September 18, 2021 9:43 AM
To: Alonso, Shantha R <shantha_alonso@ios.doi.gov>; Culver, Nada L <nculver@blm.gov>
Subject: FW: [EXTERNAL] Conservation groups urge Haaland to reform oil and gas leasing

From: Mary Jo Brooks <brooksm@nwf.org>
Sent: Friday, September 17, 2021 3:55 PM
To: Kelly, Katherine P <Kate_Kelly@ios.doi.gov>
Subject: [EXTERNAL] Conservation groups urge Haaland to reform oil and gas leasing

**This email has been received from outside of DOI - Use caution before clicking on links,
opening attachments, or responding.**

Hi Kate,

I wanted you to see the [letter](#) conservation groups sent to Secretary Haaland today, urging her to release Interior's oil and gas leasing report and encouraging her to ask Congress to include legislative reforms in the reconciliation package.

Let me know if you have any questions.

Mary Jo



Mary Jo Brooks
Communications Manager, Public Lands

She/her

National Wildlife Federation

mobile: (303) 549-8351 | nwf.org

Uniting all Americans to ensure wildlife thrive in a rapidly changing world

From: [Alonso, Shantha R](#)
To: [Daniel-Davis, Laura E](#); [Lefton, Amanda B](#); [Culver, Nada L](#); [Sanchez, Alexandra L](#); [Diera, Alexx A](#); [Knodel, Marissa S](#); [Kelly, Katherine P](#)
Subject: Fw: [EXTERNAL] NRDC leasing pause economic report coming Wednesday
Date: Monday, August 2, 2021 5:14:50 PM

fyi

From: Aaron Weiss <aaron@westernpriorities.org>
Sent: Monday, August 2, 2021 5:09 PM
To: Alonso, Shantha R <shantha_alonso@ios.doi.gov>; Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>
Subject: [EXTERNAL] NRDC leasing pause economic report coming Wednesday

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Hi Shantha and Melissa,

Just an FYI on this economic report that's dropping on Wednesday.

-Aaron



NEWS ADVISORY

**** REPORT RELEASE: Wednesday, August 4 ****

“Economic Effects of Pausing Oil and Gas Leasing on Federal Lands”

Conservation Economics Institute

DENVER – On **Wednesday, August 4** at 11 a.m. MT / 1:00 p.m. ET, the Conservation Economics Institute (CEI) will present findings of an analysis, *“Economic Effects of Pausing Oil and Gas Leasing on Federal Lands,”* which looks at the United States and five Intermountain West states that dominate federal onshore production of oil and gas: Colorado, Montana, New Mexico, Utah and Wyoming.

NRDC (the Natural Resources Defense Council) commissioned the report, in partnership with

the Center for Western Priorities (CWP) and eight other groups.

WHO:

- **Evan Hjerpe**, director of the Conservation Economics Institute
- **Jesse Prentice-Dunn**, policy director of the Center for Western Priorities
- **Joshua Axelrod**, senior advocate for the Nature Program at NRDC

WHAT:

Findings of an economic analysis of a pause on oil and gas leasing on federal lands, with a focus on five Intermountain West states: **Colorado, Montana, New Mexico, Utah and Wyoming.**

WHEN:

Wednesday, August 4

11:00 am MT / 1:00 pm ET

WHERE:

Register in advance for this Zoom webinar:

https://us02web.zoom.us/webinar/register/WN_fe4uMPn3R0WmtJWOW9s0hw

When: Aug 4, 2021 11:00 AM Mountain Time (US and Canada)

Topic: Economic Effects of Pausing Oil and Gas Leasing on Federal Lands

After registering, **you will receive a confirmation email** containing information about joining the webinar.

For questions on registration, please contact: Elizabeth Heyd, ehyd@nrdc.org

Partners include: Conservation Colorado, Conservation Voters New Mexico, the National Parks Conservation Association (NPCA), Powder River Basin Resource Council, Southern Utah Wilderness Alliance (SUWA), Wild Montana, The Wilderness Society (TWS), and the Western Organization of Resource Councils (WORC).

###

MEDIA CONTACTS:

- Jesse Prentice-Dunn, Center for Western Priorities, (303) 974-7761, jesse@westernpriorities.org
- Anne Hawke, Natural Resources Defense Council, (646) 823-4518, ahawke@nrdc.org

From: [Culver, Nada L](#)
To: [Sanchez, Alexandra L](#); [Feldgus, Steven H](#)
Subject: FW: [EXTERNAL] Memo on suggested rules and IM changes to ensure adequate bonding
Date: Wednesday, July 21, 2021 2:08:21 AM
Attachments: [PRBRC-bondingmemo-final.pdf](#)
[igarashi-economics of environmental bonding.pdf](#)
[Bonding IM Suggested Edits.docx](#)
[wy-bond-data.xlsx](#)
[DOI-proof-of-claim.pdf](#)
[Andersen et al 2009 reclamation costs and OG regs.pdf](#)

For next steps, thought it would be helpful to see this.

Nada Wolff Culver
Deputy Director, Policy and Programs
Bureau of Land Management
Cell: 202-255-6979
nculver@blm.gov

From: Shannon Anderson <sanderson@powderriverbasin.org>
Sent: Thursday, July 15, 2021 9:31 AM
To: Culver, Nada L <nculver@blm.gov>
Cc: Lottie Mitchell <lottiem@powderriverbasin.org>
Subject: [EXTERNAL] Memo on suggested rules and IM changes to ensure adequate bonding

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Dear Nada, As you know, our organization has a longstanding interest in reform of BLM's oil and gas program and especially working to ensure adequate reclamation bonds. We appreciate all BLM and DOI is doing right now to move forward reforms. To assist you in this work, we offer the attached recommendations for rule changes and amendments to the existing IM on bond adequacy reviews.

I have cc'ed my new colleague Lottie Mitchell to this email. Lottie was the main author of this memo and would be available for any follow-up conversation as needed. Not sure if you have heard, but Jill finally retired at the end of the last month and Lottie has been picking up much of Jill's oil and gas work. Jill is still very involved in these issues as a member and also provided feedback and assistance in the drafting process.

Thank you for your efforts and we wish you all the best,
Shannon

Shannon Anderson, Staff Attorney
Powder River Basin Resource Council

934 N. Main St., Sheridan, WY 82801
(307) 672-5809 (o) (307) 763-0995 (c)
sanderson@powderriverbasin.org

To: Nada Culver, Deputy Director of Policy & Programs, BLM
Fr: Powder River Basin Resource Council
Re: Proposal to amend BLM regulations on oil and gas bonding requirements

INTRODUCTION

The energy landscape in the United States is shifting rapidly. Renewable energy is quickly becoming the cheapest and most abundant electricity generator, and with this shift comes heightened uncertainty in the already-unpredictable fossil fuel extraction industry. It is imperative the BLM update their bonding and reclamation policies and practices to be prepared for these shifts. We appreciate the leasing review that the administration has undertaken and look forward to working with you on the best way to protect public and private lands overlying federal minerals.

BACKGROUND – INADEQUATE BONDS

The Federal Land Policy & Management Act (“FLPMA”) and BLM’s regulations at 43 C.F.R. § 3104.1 require that all operators of oil and gas operations on federal land must post a bond that will ensure “complete and timely plugging of wells, reclamation of lease areas, and the restoration of any lands or surface waters adversely affected by lease operations¹.” Currently, blanket bonds are used to meet this requirement. Individual bonds must be at least \$10,000, statewide bonds at least \$25,000, and nationwide bonds at least \$150,000. 43 C.F.R. § 3104.2-3. These amounts were established sixty years ago and have not been updated. Numerous studies - and frankly, common sense - have shown that these amounts are in no way adequate to cover the costs of plugging and reclaiming wells and associated infrastructure. Additionally, with the bond amounts so low, operators and lessees have a perverse incentive to just walk away without carrying out the necessary reclamation. In fact, researchers at University of Wyoming found that current bonding amounts are far too small to serve as a reclamation enforcement mechanism (Igarashi et al.). Reputational impacts and the threat of suspended operations remains the only effective reclamation enforcement mechanisms. However, these mechanisms do not work for many companies. The university study concluded bonding practices are woefully inadequate to meet the requirements of federal law and regulations.

Blanket bonds are problematic in several ways. They take into account neither the number of wells covered by the bond nor the depth of the wells, and they are not adjusted for inflation. Thus, as time passes the per-well bonding amount decreases due both to more wells being drilled and to inflation. When bad operators abandon wells, the bond amount does not cover the costs of reclamation, and the BLM and taxpayers are left paying the difference. The Government Accountability Office found in their [2019 report](#) that 84% of bonds (covering 99.5% of wells) cannot cover full-cost reclamation even in a low-cost scenario. In the intermountain west (CO, MT, NM, UT, WY), where a great number of federal drilling leases are located, the National Wildlife Foundation [found](#) 8,000 orphaned or inactive wells at risk of being orphaned. The BLM holds \$17 million in bonds for these wells, but they will likely cost \$1.3 billion to fully plug and reclaim. This leaves a gap of \$1.2 billion that will have to be paid by taxpayers.

¹ Regulations require the bond to be posted by “the lessee, operating rights owner (sublessee), or operator.”

This problem has been thrown into stark relief in the last several years. Oil costs plummeted to below \$0 a barrel in 2020, and the industry continues to suffer even as prices rebound. [Over 100](#) oil and gas companies went bankrupt in 2020, and the first quarter of 2021 saw the [highest number of bankruptcies since 2016](#), the last time oil futures dropped dramatically. [Banks are increasingly divesting](#) from oil and gas operations, leading even large and financially stable operators to face economic uncertainty and hardship. Reclamation can be expensive, and as companies face financial pressure and uncertainty, they may defer reclamation of idle wells, leading to increased risk of groundwater and soil contamination (both of which ultimately increase costs of reclamation, not to mention cause irreparable environmental harm). Idle and orphan wells can also leak methane and other pollutants, exacerbating the climate crisis.

Offloading Obligations and Abandoning Wells

Some companies have begun offloading the costs of reclamation by giving away (or sometimes even paying other companies to take) old and idle wells. Small or risky operators willing to bet on marginal production and an eventual rise in oil and gas prices have taken ownership of thousands of wells without any update in bond amount. While oil prices currently are at a post-pandemic high of over [\\$70/barrel](#), the Energy Information Administration expects crude prices to drop in 2022 and beyond as global supply outpaces demand. [Analysis](#) by Grist and the Texas Observer shows that well abandonment increases dramatically as soon as oil prices drop below \$50/barrel, although this threshold may be lower for companies relying on stripper wells or those who operate only a few wells. Those operators who have not already folded are going to face bankruptcy as their risky bets fail to pan out, and the BLM is going to be left with thousands of orphaned wells and grossly insufficient funds to reclaim them. While BLM's chain of lease title process does theoretically allow collection of reclamation costs from previous lessees, that process can take years, and is complicated when one or more of the companies on the lease are in bankruptcy.

Requiring full-cost bonding when leases are transferred would also remove a great deal of administrative burden from state BLM offices. Presently, those offices have the authority to raise bonds above their federal minimum, but in order to do so they must submit a proposal for each bond and wait for approval. Submitting such bond increase requests is time-intensive, and even when approved, collecting the additional bonding amount from operators can take years. If the operator is in bankruptcy or otherwise financially unstable, the bond may never be collected. Even when the extra bond amount is collected, the bond is likely far under the actual cost of reclamation. In Wyoming, there are 25 bond increase requests still pending from 2018 or earlier, and the average bond amount per well after an increase is approved is \$8,534.90. CBM wells generally cost \$10,000-\$15,000 to clean up, and modern shale wells can cost [30 times](#) that.

Carbon Creek Energy (a subsidiary of bankrupt US Realm Powder River, formerly Moriah Powder River) is a great example of the many ways the current process is inadequate. In 2015, Carbon Creek bought around 7,500 low and non-producing coalbed methane (CBM) wells in the Powder River Basin. Many of these wells are federal minerals, and a good portion of them are located on BLM surface in the central Powder River Basin. While natural gas was trading at historically low prices at the time, Carbon Creek executive [Tom Fitzsimmons claimed](#) that through economies of scale they would be able to make the wells profitable again, something the previous owners had been unable to do. Six years later, US Realm is

in bankruptcy and Carbon Creek [owes more than \\$20 million](#) in unpaid natural gas production taxes to Johnson County and more than \$8 million in royalties to the federal government. The attached “Protective Proof of Claim”, filed by BLM on May 1st, 2020, shows a claim of \$67,521,968 for oil and gas reclamation activities. The BLM holds only [\\$118,300](#) in bonds, and it is extremely unlikely they will ever receive even a tiny fraction of the \$67 million they have requested to cover plugging and reclamation. This means, of course, that taxpayers will likely pay the difference to clean up Carbon Creek’s thousands of federal wells and infrastructure associated with the federal leases. Their bond was raised above the federal minimum by a Wyoming BLM office, but it is still only worth about \$50/ federal well – 500 times less than what BLM estimates it will cost to clean up the wells when they inevitably end up on the orphan well list. The looming reclamation crisis of Carbon Creek’s wells and infrastructure is not unique but highlights the structural failure of the current BLM policy of requiring only blanket bonding.

SOLUTIONS

While some policy updates may be achievable without notice and comment rulemaking, we believe it is essential to start the rulemaking process to phase out blanket bonding and ensure oil and gas companies cover all costs of plugging and reclaiming federal wells. We offer the following suggestions for amendments to 43 CFR part 3104:

Full Cost Reclamation Bonds Required for Any New APDs Developed on a Federal Lease

The BLM should eliminate blanket bonds by deleting section 3104.3 from the regulations and updating section 3104.2 to require that lease bonds will be updated at the time of an APD or lease transfer to reflect estimated plugging and reclamation costs. The APD rules would also have to be amended to ensure consistency and to specify that a bond is required with the reclamation plan submitted for the APD (or in some cases the Plan of Development). This will allow BLM to continue its current system of bonding by the lease, but also ensure that the lease bond is of a sufficient amount to cover all costs of plugging and reclamation work on the lease. Only through full cost bonding will the BLM meet the standard set by 43 CFR 3104 and FLPMA.

We encourage BLM to require a full cost bond with an engineering review and cost analysis approved by the agency. The full cost bond amount should be a minimum of \$15/foot, with the option for the company to attempt to justify a lower bond amount with a completed bond estimate worksheet prepared at the time of the APD. A rate of \$15/foot is consistent with studies and past experience of plugging and reclamation work done by state and federal agencies. For instance, Andersen, Coupal and White (2009) use data on the costs of plugging a sample of 225 wells in Wyoming to estimate an average cost of \$10.50 per foot of well depth (\$13.18 USD in 2021 dollars). The majority of wells being plugged at the time of this study were shallow CBM wells with small well pads. The true cost per foot to plug new wells is likely higher now, as horizontal oil wells today are [5-7 times deeper than CBM wells and have 20-40 acre](#) well and facility pads.

Phasing in Full Cost Bonding for Existing APDs

It is imperative that all blanket bonds currently held by the BLM be converted into full-cost bonds if current operators are to be held accountable. The lease bond rules amendments should phase in the new

bonding requirements for existing wells with a requirement for operators to calculate a full-cost bond amount based on the total well depth they have drilled and pads they have constructed, and to provide that amount to the BLM within one year of the effective date of the new rules, minus any bond they have already provided to BLM.

Additionally, the rules should be amended to apply the new APD full cost bonding requirements at the time of any application to transfer a lease. All lease transfers should require bringing the lease bond amount up to cover all wells on the lease at a minimum \$15/foot. This bond should be provided to BLM by the new operator before any lease transfer is approved.

Review Period

Bond reviews should then be conducted at least every five years, as suggested in the current [Instruction Memorandum](#) (IM). These reviews should take into account updated reclamation cost estimates and inflation and should result in an automatic bond increase commensurate with the rate of inflation unless the company can show through an engineering report and cost estimate that the true cost of plugging and reclamation will be lower. Companies should be allowed to request a bond review if they believe their bond should be lower, but again they must be required to show an engineering report and cost analysis before a bond reduction is approved.

The Need for Immediate Amendments to the BLM's Bonding Review IM

We urge BLM to amend the 2019 IM to protect the public and taxpayers while the rulemaking process occurs. We have attached proposed updates to the current IM and ask that these updates be made immediately. While much of the IM will not apply once the above rule changes have been made, updates to the IM can be made to improve bonding practices while the rule-making process occurs.

Bonding and reclamation issues have been of great concern to us for years. We know these issues are also of concern to you and the BLM. We welcome a dialogue with you about how to best act to protect the public interest and private landowners as BLM authorizes the continued development of federal and oil and gas resources. As you know, time is of the essence and this issue has lingered for far too long. We look forward to swift and effective agency action.

Environmental Bonding for Land Reclamation

by

Yoshiyuki Igarashi^{1a}

Matt Andersen^b

David Finnoff^c

Tina Willson^d

Roger Coupal^e

1. Introduction

Over the last decade the country's appetite for energy and other natural resources has grown exponentially, but so has the need for mitigating environmental damage from this resource development. Environmental reclamation and restoration is usually a required part of completing a resource extraction project. Government agencies standards for reclamation vary from agency to agency, but have used performance approach, and design standards as metrics for successful completion. The literature on the economic efficiency of these types of standards is considerable (Hueth and Melkonyan 2009). Coupled with these standards regulators often use some form of bonding scheme to enforce completion of commitments.

Bonding schemes come in several forms as reviewed by Ferreira, et al (2003). Besides regular cash bonds where a firm gives a fixed sum to the agency they can also include letters of

¹ The authors are PhD student at North Carolina State University; Assistant Professor, Agricultural and Applied Economics; Associate Professor, Economics and Finance, Post Doctoral Research Fellow, Agricultural and Applied Economics; Associate Professor, Agricultural and Applied Economics, University of Wyoming.

Credit, Prepaid Collateral Closure Accounts, Leasing Specific Closure Accounts, and Ex-post Insurance Policies. All these pose risks or opportunity costs to the firm, the agency, or both. The risk issue is outside the scope of this article, but is nonetheless important. Environmental bonding related to reclamation has become an increasingly common tool for management of mitigation of natural resource development and impacts. The motivation for environmental bonding as framed in the literature is a mechanism for providing an incentive for a firm to reclaim disturbances on public lands (Perrings, 1989; Constanza and Perrings, 1990; Gerrard 2000). Garrard (2000) argues bonding is a market based approach that imposes a cost on the firm for non-compliance, thereby creating an incentive to follow regulatory commitments. It can also transfer the risk of default to a third party.

The use of a bond to manage commitments has advantages, but also limitations. Shogren (1993) identifies three limitations. A moral hazard exists if firms choose to ignore reclamation commitments because they have already internalized the reclamation cost by posting a bond and plan on forfeiting the bond and shirking on the commitment. Liquidity constraints may occur from setting the bond rate unrealistically high, thereby tying up investment capital with high industry opportunity costs. Finally contract failure can occur because reclamation activities are imperfectly enforced due to monitoring issues and legal restrictions (Shogren et al., 1993), as well as simply the long time period between bonding and

termination.

Limitations aside, there are reasons why firms do complete reclamation commitments. Enterprise level studies that incorporate reclamation decision-making into a complete set of incentives that a company faces are few in the literature. The goal of this analysis.

Sult (2004) developed a model of reclamation decision making for coal mines incorporating fines for non-compliance and reputation costs. The model predicted that reclamation depends upon the entire cost of reclamation, including fines and increased management cost from a change in reputation in the eyes of the regulators. In general reputation effects can insure reclamation activities are completed even in the presence of a small bond that does not fully cover costs (Gerard, 2000). Firms will complete reclamation activities simply to avoid potential business losses because of a damaged reputation, which can affect a company's relationship with regulators, increasing operation costs. A damaged reputation can also affect a company's relationship with consumers, potentially decreasing revenues. In another study of hard rock mining Roan and Martin (1996) develop a similar model that incorporates ecosystem constraints to a mining firm's operation. The authors illustrate two important findings relevant to policy development for hard rock mining. First, the ecosystem constraint (and the regulatory system that follows it) creates an incentive to locate in areas with less environmental restrictions. So firms choose investment locations in part based

upon regulatory cost. Second, regulatory cost associated with ecosystem protection reduces the economic life of mine.

This paper evaluates environmental bonding systems operated by State and Federal Agencies as an enforcement mechanism for future remediation of oil and gas impacts in the Western United States. We look at the Bureau of Land Management (BLM) bonding framework from the perspective of an oil and gas firm. We use a dynamic optimization model to estimate an optimal bond rate for the reclamation of land disturbed by oil and gas development. This study draws from previous work by Andersen and Coupal (2009) that analyzed costs and policies that affect land reclamation decisions by oil and gas firms. We begin by providing a brief description of the current regulatory setting that governs the oil and gas industry in Wyoming and focus our attention on reclamation bonding requirements, which are intended to insure the proper reclamation of disturbed land. The most important issue affecting the decision to reclaim is the cost of reclaiming the disturbed land (although other factors such as clear reclamation guidelines and standards set by land management agencies are important as well). We then empirically test this analysis by constructing a dynamic optimization model in GAMS with empirically derived parameters to calculate an optimal bond per well.

2. Model

The theoretical model for a gas development with the cost of the land reclamation is based on a representative oil and gas firm as presented in Pindyck (1978). The formulation represented here as follows:

$$\begin{aligned} \max_{q,w} J &= \int_0^{\infty} [qp - C_1(R)q - C_2(w)] e^{-rt} dt \\ \text{s.t. } \dot{R} &= \dot{x} - q \\ \dot{x} &= f(w, x) \\ R \geq 0, q \geq 0, w \geq 0, x \geq 0. \end{aligned} \tag{1}$$

We assume a competitive market for a non-renewable resource and follow Pindyck's assumptions. Producers take price p as given and choose a rate of production q . The average production cost is denoted as, $C_1(R)$, where R denotes the amount of proved oil reserves and the exploration cost is represented as, $C_2(w)$, where w denotes the number of drilled wells.

The average production cost increases as the proved oil reserve decreases. The flow of the oil addition is represented as $f(w, x)$. New oil discovery decreases over time because it becomes more difficult to discover new oil reserves when the cumulative oil discovery, x , increases.

Firms begin drilling in an area which is relatively easy to access first and then move to more costly areas. Firms move to areas of increasing cost over time, thus $\frac{\partial f(w, x)}{\partial x} < 0$. Pindyck solved for \dot{w} , to generate an optimal path of \dot{w} . In this formulation of Pindyck's model the optimal path for \dot{w} is as follows:

$$\dot{w} = \frac{C'_2(w) \left[\frac{f_{wx}}{f_w} f - f_x + \delta \right] + C'_1(R) q f_w}{C''_2(w) - C'_2(w) \frac{f_{ww}}{f_w}} \quad (2)$$

Equation (2) has two state variables and two choice variables. Because (2) has four variables, a graphical phase diagram analysis is not possible, so we introduce a simpler model with one state variable and one choice variable this is suited to the needs of this research.

Cumulative oil discovery, x , is eliminated from the original model for simplicity because it makes the model too complicated to solve analytically. Cumulative discovery is used to represent the depletion of potential oil reserves in one region. Pindyck described $\frac{\partial f}{\partial x} < 0$ because it gets more difficult to discover new oil reserves. The simpler model for the analytical solutions does not take into account oil depletion in an area. In our model, \bar{q} , denotes a known rate of production rate per well, and price, p , is assumed exogenous. In this representation all wells are considered homogeneous and there are no depletion effects. The model has one choice variable and one state variable. Based on the new definitions, our model of profit maximization for a representative firm is represented as:

$$\begin{aligned} \max_w J &= \int_0^T [(\bar{q}w)\bar{p} - C_1(R)(\bar{q}w) - C_2(w)] e^{-rt} dt \\ \text{s.t. } \dot{R} &= f(w) - \bar{q}w \\ R &\geq 0, \bar{q} \geq 0, w \geq 0. \end{aligned} \quad (3)$$

Following Pindyck, the signs of derivatives are as follows:

$$C'_2(w) > 0, C''_2(w) \geq 0, f'(w) > 0. \quad (4)$$

In order to obtain an analytical solution it is necessary to make additional assumptions to the

models. First, $f(w)$ is a production function representing the oil discovery and we assume that $f''(w) < 0$. The marginal productivity would decrease as the number of wells increases.

Second, it is assumed that $C'_1(R) < 0$ and $C''_1(R) > 0$. The function $C_1(R)$ represents the average cost of production with respect to the amount of oil reserves. The average cost of production $C_1(R)$ increases as proved reserve base is depleted. This means that $C_1(R)$ decreases as R increases, thus $C'_1(R) < 0$.

From equation (3) the Hamiltonian is

$$H = [(\bar{q}w)p - C_1(R)(\bar{q}w) - C_2(w)]e^{-rt} + \pi[f'(w) - \bar{q}w]. \quad (5)$$

The maximum principles are given as

$$\frac{\partial H}{\partial w} = [\bar{q}p - C_1(R)\bar{q} - C'_2(w)]e^{-rt} + \pi[f'(w) - \bar{q}] = 0 \quad (6)$$

$$\dot{R} = \frac{\partial H}{\partial \pi} = f(w) - \bar{q}w \quad (7)$$

$$\dot{\pi} = -\frac{\partial H}{\partial R} = C'_1(R)(\bar{q}w)e^{-rt}. \quad (8)$$

Rearranging (6) and solving for π ,

$$\pi = \frac{-[\bar{q}p - C_1(R)\bar{q} - C'_2(w)]e^{-rt}}{[f'(w) - \bar{q}]} \quad (9)$$

Differentiating (9) with respect to time,

$$\dot{\pi} = \frac{[C''_2(w)f' - f''C'_2(w)]\dot{w}e^{-rt} - rC'_2(w)f'e^{-rt}}{[f'(w) - \bar{q}]^2}. \quad (10)$$

Equating (10) with (8), and rearrange it to make the differential equation for \dot{w} ,

$$\dot{w} = \frac{[C'_1(R)(\bar{q}w)[f'(w) - \bar{q}]^2 - [C'_1(R)\{f(w) - (\bar{q}w)\}\bar{q} + r\{\bar{q}p - C_1(R)\bar{q} - C'_2(w)\}]\{f'(w) - \bar{q}\}]}{[C''_2(w)\{f'(w) - \bar{q}\} + f''(w)\{\bar{q}p - C_1(R)\bar{q} - C'_2(w)\}]} \quad (11)$$

Now, \dot{w} and \dot{R} are represented by two equations (7) and (11).

Suppose that a long-run stable equilibrium exists and $\dot{R} = 0$ and $\dot{w} = 0$ intersects at one point in the phase diagram between w and R . Considering the case when $\dot{w} = 0$, it is assumed that the denominator is not equal to zero in (11). Then, the numerator must be equal to zero, and equation (11) becomes

$$C_1'(R)(\bar{q}w)[f'(w) - \bar{q}]^2 - [C_1'(R)\{f(w) - (\bar{q}w)\}\bar{q} + r\{\bar{q}p - C_1(R)\bar{q} - C_2'(w)\}]\{f'(w) - \bar{q}\} = 0. \quad (12)$$

Equation (12) can be rearranged as,

$$[f'(w) - \bar{q}] \left[\frac{C_1'(R)\bar{q}w[f'(w) - \bar{q}] - [C_1'(R)\bar{q}\{f(w) - (\bar{q}w)\} + r\{\bar{q}p - C_1(R)\bar{q} - C_2'(w)\}]}{[f'(w) - \bar{q}]} \right] = 0. \quad (13)$$

Because $f'(w) - \bar{q} \neq 0$ from (9), equation (13) can be simplified to:

$$C_1'(R)\bar{q}w[f'(w) - \bar{q}] - [C_1'(R)\bar{q}\{f(w) - (\bar{q}w)\} + r\{\bar{q}p - C_1(R)\bar{q} - C_2'(w)\}] = 0. \quad (14)$$

Assume $g(w, R)$ has partial continuous derivatives and $\frac{\partial g}{\partial R} \neq 0$, then the sign of the slope of

$\dot{w} = 0$ in the phase diagram can be determined from the Implicit Function Theorem,

$$\frac{dR}{dw} = - \frac{\frac{\partial g}{\partial w}}{\frac{\partial g}{\partial R}} = \frac{-\frac{r}{q}C_2''(w) - C_1'(R)[f'(w) + wf''(w) - f'(w)]}{-rC_1'(R) - C_1''(R)[wf'(w) - f(w)]}. \quad (15)$$

Rearranging equation (15),

$$\frac{dR}{dw} = \frac{-\frac{r}{q}C_2''(w) - C_1'(R)wf''(w)}{rC_1'(R) + C_1''(R)f(w) \left[w \frac{f'(w)}{f(w)} - 1 \right]}. \quad (16)$$

Pindyck set $f(w, x)$ as $Aw^\alpha e^{-\beta x}$. The elimination of x from the model simplifies the

discovery function to $f(w) = Aw^\alpha$ The function has regular neoclassical economic properties:

$$f'(w) = A\alpha w^{\alpha-1} > 0, f''(w) = A\alpha(\alpha-1)w^{\alpha-2} < 0 \text{ and } f'''(w) = A\alpha(\alpha-1)(\alpha-2)w^{\alpha-3} > 0 \text{ where}$$

$0 < \alpha < 1$ and $w > 0$. Considering the term $\left[w \frac{f'(w)}{f(w)} - 1 \right]$ in (16) then

$$w \frac{A\alpha w^{\alpha-1}}{Aw^\alpha} - 1 = \alpha - 1 < 0, \text{ where } 0 < \alpha < 1. \quad (17)$$

Thus, the sign of each term in (17) is determined by assumptions.

$$\frac{dR}{dw} = - \frac{\frac{\partial g}{\partial w}}{\frac{\partial g}{\partial R}} = \frac{-\frac{r}{q} C_2''(w) - C_1'(R) w f''(w)}{r C_1'(R) + C_1''(R) f(w) \left[w \frac{f'(w)}{f(w)} - 1 \right]} > 0. \quad (18)$$

From equation (18) the slope of $\dot{w} = 0$ is interpreted as negative in the phase space. The

amount of oil reserve decreases when the number of oil wells increases. Then, considering the

shape of the curve,

$$\begin{aligned} \frac{d^2 R}{dw^2} = & \frac{-\left[\frac{r}{q} C_2'''(w) + C_1'(R) \{ f''(w) + w f'''(w) \} \right] \left[r C_1'(R) + C_1''(R) \{ w f'(w) + f(w) \} \right]}{\left[r C_1'(R) + C_1''(R) \{ w f'(w) - f(w) \} \right]^2} \\ & + \frac{\left[C_1''(R) w f''(w) \right] \left[\frac{r}{q} C_2''(w) + C_1'(R) w f''(w) \right]}{\left[r C_1'(R) + C_1''(R) \{ w f'(w) - f(w) \} \right]^2}. \end{aligned} \quad (19)$$

First, we consider the sign of the first term in equation (19). The term $\{ f''(w) + w f'''(w) \}$ is

modified as:

$$f''(w) \left\{ 1 + w \frac{f'''(w)}{f''(w)} \right\} = f''(w) \{ 1 + (\alpha - 2) \} = f''(w) (-1 + \alpha) > 0. \quad (20)$$

The sign of the first bracket in the numerator of (19) is determined as positive from the

assumptions.

$$-\left[\frac{r}{\bar{q}}C_2'''(w) + C_1'(R)f''(w)\left\{1 + w\frac{f'''(w)}{f''(w)}\right\}\right]^* \quad (21)$$

$$\left[rC_1'(R) + C_1''(R)\{wf'(w) - f(w)\}\right] < 0$$

Likewise, the sign of the second bracket in the numerator of (19) is

$$C_1''(R)wf''(w)\left[\frac{r}{\bar{q}}C_2''(w) + C_1'(R)wf''(w)\right] < 0. \quad (22)$$

The sign of $\frac{d^2R}{dw^2}$ is determined as positive from equation (21) and equation (22). Therefore,

$\dot{w} = 0$ is strictly convex because $\frac{dR}{dw} < 0$ and $\frac{d^2R}{dw^2} > 0$.

Next, considering $\dot{R} = 0$, equation (3) is modified as:

$$f(w) - \bar{q}w = 0. \quad (23)$$

Incorporating the production functional form in Equation (23) is modified to

$$w(w^{\alpha-1} - \bar{q}) = 0. \quad (24)$$

The optimal number of wells can be zero or a certain real value from. The size of optimal number of wells is determined by the size of the production per well. If the amount of production per well becomes larger, the optimal number of wells decreases corresponding to the size of α except for $w^* = 0$. When the productivity of each well increases, a firm needs fewer wells. On the other hand, a decline of productivity leads to an increase the number of wells to reach the equilibrium. As figure 1 shows, $\dot{R} = 0$ is a vertical line in w and R space. If the optimal number of wells is equal to zero, $\dot{R} = 0$ locates on the vertical axis, but an optimal number of wells is significantly greater than zero.

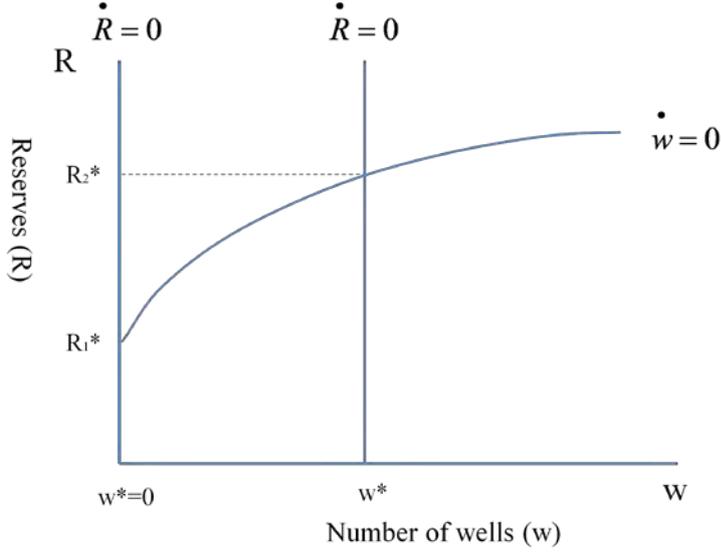


Figure 1. Graph of $\dot{w} = 0$ and $\dot{R} = 0$

Producer behavior reflected in the phase diagram is due to the shape of $\dot{w} = 0$ and

$\dot{R} = 0$ is considered. Because the denominator cannot be zero when $\dot{w} = 0$, equation (11) can

be modified as:

$$G(w, R) = r \left\{ p - C_1(R) - \frac{C_2'(w)}{\bar{q}} \right\} - C_1'(R) [f'(w)w - f(w)] = 0. \quad (25)$$

Similarly, when $\dot{R} = 0$,

$$H(w) = f(w) - \bar{q}w = 0. \quad (26)$$

Equation (26) can be linearized around the equilibrium point, (w^*, R^*) , by a Taylor series

expansion, (27).

$$G(w, R) = \left[\frac{r}{\bar{q}} C_2''(w^*) + C_1'(R^*) f''(w^*) w^* \right] (w - w^*) + \left[-r C_1'(R^*) - C_1''(R^*) \{ f'(w^*) w^* - f(w^*) \} \right] (R - R^*). \quad (27)$$

w^* then is the optimal number of wells and R^* are optimal amount of the proved oil reserves.

Likewise, equation (27) is linearized as:

$$H(w) = [f'(w^*) - \bar{q}](w - w^*) = 0. \quad (28)$$

The Jacobian matrix is given as:

$$J = \begin{bmatrix} H_R & H_w \\ G_R & G_w \end{bmatrix} = \begin{bmatrix} 0 & f'(w^*) - \bar{q} \\ rC_1'(R^*) + C_1''(R^*)\{f'(w^*)w^* - f(w^*)\} & \frac{r}{\bar{q}}C_2''(w^*) + C_1'(R^*)f''(w^*)w^* \end{bmatrix} \quad (29)$$

And the eigenvalues are as follows:

$$|J - \lambda I| = \begin{vmatrix} -\lambda & H_w \\ G_R & G_w - \lambda \end{vmatrix} = 0. \quad (30)$$

Solving equation (30),

$$\lambda_{1,2} = \frac{1}{2} \left[G_w \pm \sqrt{G_w^2 + 4H_w G_R} \right]. \quad (31)$$

The first term in (31), G_w , is positive from (32).

$$G_w = \frac{r}{\bar{q}}C_2''(w^*) + C_1'(R^*)f''(w^*)w^* > 0. \quad (32)$$

The sign of $H_w G_R$, in (31) is positive as represented in (33).

$$H_w G_R = [f'(w^*) - \bar{q}] \left[rC_1'(R^*) + C_1''(R^*)\{f'(w^*)w^* - f(w^*)\} \right] > 0. \quad (33)$$

From (31), (32) and (33) the phase diagram has a saddle path between $\lambda_1 < 0 < \lambda_2$. There are two possible cases to illustrate the phase diagram representation corresponding to the value of optimal number of wells; when $w^* \neq 0$ and $w^* = 0$. Both phase diagrams have saddle paths.

When $w^* \neq 0$ (26) is converted into (34) because the discovery function is concave and

production is a linear function²,

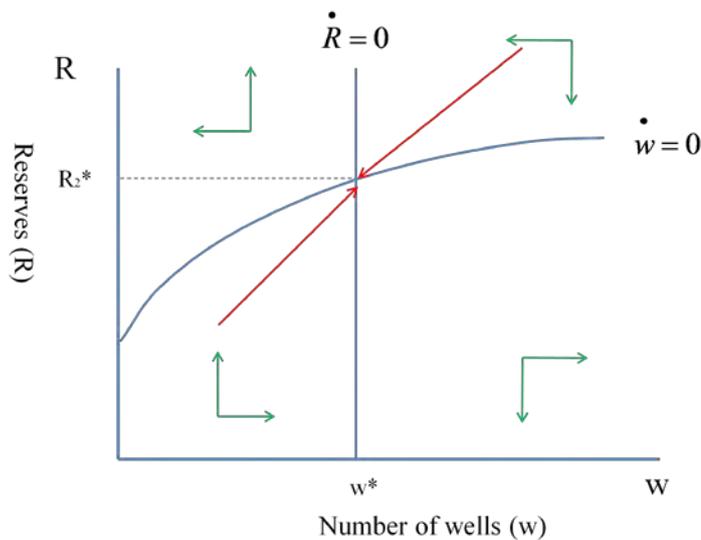
$$H(w^* + \varepsilon) = f(w^* + \varepsilon) - \bar{q}(w^* + \varepsilon) < 0. \quad (34)$$

It means $\dot{R} = 0$ takes smaller values when the number of wells is larger than the optimal number of wells. Similarly, the change of the number of wells responding to the amount of the proved oil reserve is represented as:

$$G(w^*, R^* + \varepsilon) = r \left\{ p - C_1(R^* + \varepsilon) - \frac{C'_2(w^*)}{\bar{q}} \right\} - C_1'(R^* + \varepsilon) [f'(w^*)w^* - f(w^*)] < 0. \quad (35)$$

Equation (35) implies that as $\dot{w} = 0$ takes smaller values, the amount of existing oil in reserve is larger than the optimal amount of oil reserve.

Because the behavior of the trajectories around $\dot{R} = 0$ and $\dot{w} = 0$ are given, the phase diagram which has a saddle path identifies and optimal path (Figure 2). Because of the saddle path, there is an optimal path.



² $f'(w) > 0$ and $f''(w) < 0$.

Figure 2. Saddle path where $w^* \neq 0$

Second, when the optimal number of wells is equal to zero, $\dot{R} = 0$ locates on the vertical axis. Equation (26) can be linearized around the equilibrium point, $(0, R_2^*)$, by a Taylor series expansion³.

$$G(w, R) = -rC_1'(R_2^*)(R - R_2^*). \quad (36)$$

w^* then is the optimal number of drilled wells and R^* are optimal amount of the proved oil reserves. Likewise, equation (27) is linearized as:

$$H(w) = -\bar{q}w = 0. \quad (37)$$

The Jacobian matrix is given as:

$$J = \begin{bmatrix} H_R & H_w \\ G_R & G_w \end{bmatrix} = \begin{bmatrix} 0 & -\bar{q} \\ rC_1'(R^*) & 0 \end{bmatrix} \quad (38)$$

And the eigenvalues are as follows:

$$|J - \lambda I| = \begin{vmatrix} -\lambda & H_w \\ G_R & G_w - \lambda \end{vmatrix} = 0. \quad (39)$$

Solving equation (39),

$$\lambda_{1,2} = \pm \sqrt{-H_w G_R}. \quad (40)$$

The sign of $H_w G_R$ is determined from

$$H_w G_R = \bar{q}rC_1'(R^*) < 0. \quad (41)$$

The phase diagram has saddle path from (40) and (41) from $\lambda_1 < 0 < \lambda_2$.

³ $C_2''(0) = 0$, $f(0) = 0$ and $f'(w) = 0$.

When $w^* \neq 0$, because the discovery function is concave and production is a linear function⁴, Equation (26) is represented as

$$H(0 + \varepsilon) = f(\varepsilon) - \bar{q}(\varepsilon) < 0. \quad (42)$$

It means $\dot{R} = 0$ takes smaller values when the number of wells is larger than the optimal number of wells. Similarly, the change of the number of wells responding to the amount of the proved oil reserve is represented as:

$$G(0, R_2^* + \varepsilon) = -\bar{q}rC_1'(R_2^* + \varepsilon) < 0. \quad (43)$$

From (42) and (43), the trajectories around the equilibrium $(0, R_2^*)$ are determined.

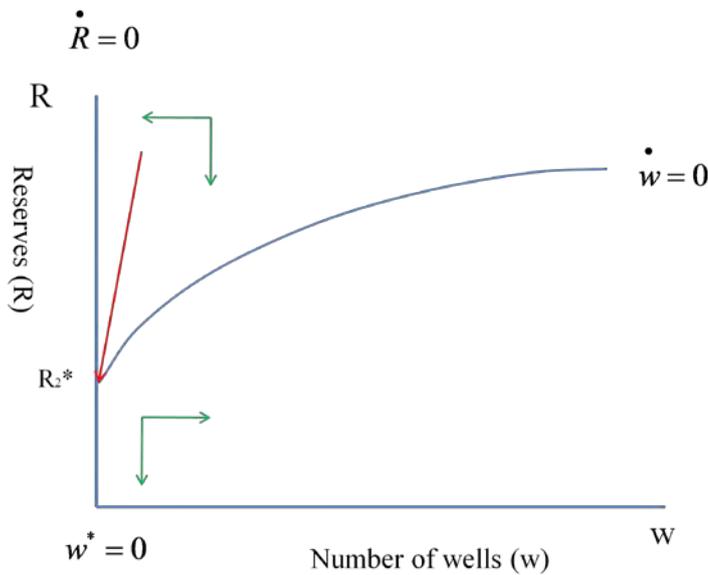


Figure 3. Saddle path where $w^* = 0$

From $w \geq 0$, there is a saddle path only above $\dot{w} = 0$. Thus, the initial amount of proved reserve and initial number of wells must be greater than the combinations on $\dot{w} = 0$. If an initial point starts above $\dot{w} = 0$, it converges to the equilibrium $(0, R_2^*)$.

⁴ $f'(w) > 0$ and $f''(w) < 0$.

The behaviors of the trajectories around two equilibria, (w_1^*, R_2^*) and $(0, R_2^*)$, are shown on figure 2 and figure 3. A combination of an initial number of well and an initial amount of oil reserve converges to either of the two equilibria. When \bar{q} is extremely large and does not have intersection except for $w^* = 0$, the phase diagram has only one equilibrium on the vertical axis. As is shown on figure 3, the initial combinations above $w = 0$ are able to reach the equilibrium $(0, R_2^*)$.

The Simplified Pindyck's Model with Reclamation

We now incorporate a fixed initial lump sum bond and reclamation costs to the simplified model described above. Since reclamation cost is highly correlated with total well depth w is an appropriate choice variable for both production and reclamation (Andersen and Coupal, 2009).⁵ The final choice variable included is exploration costs (which can be as simple as adding another gas field to the operation). Exploration effort is measured in terms of cumulative depth they drill in one region at time t . Additionally, the firm must pay the reclamation cost, $RC(w)$, which covers the restoration costs for the land disturbance occurred by the exploration effort. Assuming the cost of reclamation for each well is same, the function of reclamation cost is linear. Thus, $RC'(w) > 0$ and $RC''(w) = 0$. Following Deacon (1993) we limited the number of control variables to facilitate the likelihood of a solution.⁶ The total cost of drilling wells is

⁵ $\text{Corr}[\text{depth of wells, reclamation cost}] = 0.994$.

⁶ Deacon (1993) combined development and exploration into one variable.

$$C_3(w) = C_2(w) + RC(w). \quad (44)$$

Exploration efforts produce two kinds of costs, although the exploration efforts facilitate the oil or gas discovery. The derivatives of the total cost of drilling wells are $C_3'(w) > C_2'(w) > 0$ from $RC'(w) > 0$ and $C_3''(w) = C_2''(w) > 0$ from $RC''(w) = 0$.

Analytical solutions of the model for the optimal bond are considered with reclamation costs.

The model has one choice variable and one state variable:

$$\begin{aligned} \max_w J &= \int_0^T [(\bar{q}w)p - C_1(R)(\bar{q}w) - C_3(w)] e^{-rt} dt - (1 - e^{-rT})B_0 \\ \text{s.t. } \dot{R} &= f(w) - \bar{q}w \\ R &\geq 0, \bar{q} \geq 0, p \geq 0, w \geq 0, r \geq 0, B_0 \geq 0. \end{aligned} \quad (45)$$

w denotes the depth they drill in region i . The initial bond posted by a firm can be retrieved at the terminal state. The bond retrieved is smaller than the posted bond due to the opportunity cost of time. The retrieved bond becomes smaller when the planned termination date is longer.

The Hamiltonian from (45) is as follows:

$$H = [(\bar{q}w)p - C_1(R)(\bar{q}w) - C_3(w)] e^{-rt} + \pi [f(w) - \bar{q}w]. \quad (46)$$

The initial posted bond does not affect the optimal solutions because it is a sunk cost from the perspective of the firm. The maximum principles are given as

$$\frac{\partial H}{\partial w} = [\bar{q}p - C_1(R)\bar{q} - C_3'(w)] e^{-rt} + \pi [f'(w) - \bar{q}] = 0 \quad (47)$$

$$\dot{R} = \frac{\partial H}{\partial \pi} = f(w) - \bar{q}w \quad (48)$$

$$\dot{\pi} = -\frac{\partial H}{\partial R} = C_1'(R)(\bar{q}w) e^{-rt}. \quad (49)$$

Comparing the maximum principles (47), (48) and (49) with (6), (7) and (8); the maximum

principle for the optimal bonding system uses $C_3(w)$ instead of $C_2(w)$.⁷ Thus, \dot{w} is represented

as

$$\dot{w} = \frac{C_1'(R)(\bar{q}w)[f'(w) - \bar{q}]^2 - [C_1'(R)\{f(w) - (\bar{q}w)\}\bar{q} + r\{\bar{q}p - C_1(R)\bar{q} - C_3'(w)\}]\{f'(w) - \bar{q}\}}{[C_3''(w)\{f'(w) - \bar{q}\} + f''(w)\{\bar{q}p - C_1(R)\bar{q} - C_3'(w)\}]} \quad (50)$$

Because $C_3(w)$ is represented as a quadratic function, the signs of the derivatives are determined as $C_3'(w) > 0$ and $C_3''(w) > 0$. Because the derivatives of $C_3(w)$ are

interchangeable with those of $C_2(w)$ due to the signs of themselves⁸. Thus, $\dot{w} = 0$ is

convex to the origin because $\frac{dR}{dw} < 0$ and $\frac{d^2R}{dw^2} < 0$. The curve $\dot{R} = 0$ is a vertical line in the

phase space. The phase diagram is represented in figure 2. Because the signs of the

derivatives of $C_3(w)$ are same with the derivatives of $C_2(w)$, the phase diagram

representation is similar with the Pindyck's model. When $\dot{w} = 0$, equation (50) is simplified

to:

$$r \left\{ p - C_1(R) - \frac{C_3'(w)}{\bar{q}} \right\} - C_1'(R)[f'(w)w - f(w)] = 0. \quad (51)$$

Because $\dot{R} = 0$ does not include $C_3(w)$, the optimal amount of oil reserve is not different from

the model without reclamation cost. Thus, the optimal well depth must differ from the

previous model⁹. $C_3'(w)$ makes the first term in (7) smaller. When the optimal amount of

⁷ $C_3(w) = C_2(w) + R(w)$.

⁸ $C_2'(w) > 0$ and $C_2''(w) \geq 0$.

⁹ The exploration effort was represented by the number of wells instead of the well depth for the model without reclamation. But, the concept of exploration effort is same between the number of wells and the well depth.

oil reserves of the model without reclamation is represented as $R_{w/out}^*$, the optimal amount of oil reserve of the model with reclamation is denoted as R^* , where $R^* = R_{w/out}^* + \mu$. The new equilibrium must move up or down from the previous equilibrium depending on μ . Here, some terms of (7) are used to determine the sign of μ . The following relation must be satisfied to hold a new equilibrium from $C'_3(w) > C'_2(w)$.

$$\begin{aligned} -rC_1(R_{w/out}^*) - C_1'(R_{w/out}^*) [f'(w^*)w^* - f(w^*)] \\ < -rC_1(R^*) - C_1'(R^*) [f'(w^*)w^* - f(w^*)]. \end{aligned} \quad (52)$$

From $C'(R) < 0$ and $C''(R) > 0$, μ must be a positive value to cancel out the effect of $C'_3(w)$. Figure 4 shows the equilibrium with and without reclamation. The optimal number of wells does not change and the optimal amount of reserve increases because $\dot{w} = 0$ shifts up. The firm makes the production cost lower by increasing the amount of reserve at the equilibrium because the cost from drilling increases by internalizing the cost of reclamation.

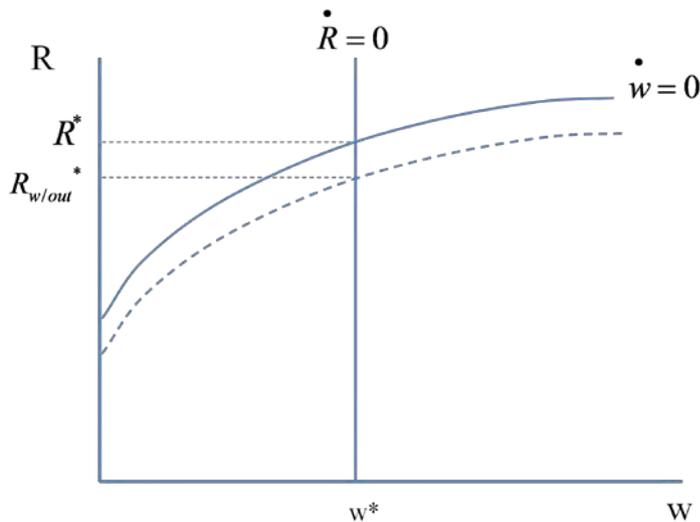


Figure 4. Graph of and $\dot{R} = 0$ with reclamation

The new phase space has a saddle path because of the consistency of the signs of derivatives.

The Optimal Bond

Next we consider the optimal amount of the bond from (45). The ideal amount of a reclamation bond covers the total reclamation costs. The total reclamation cost is determined by solving (45). Then, the simulation with the regression models determines the optimal values of the choice variable for each time period. Because the total cost of reclamation is equal to the initial bond, the equation is represented as

$$\int_0^T RC(w_t^*)e^{-rt} dt = B_0. \quad (53)$$

w_t^* denotes the current optimal depth of wells, and they are given by the simulation result.

The real value of the posted bond at the terminal period covers the reclamation costs with time preferences. Rearranging (53), the amount of optimal bond is represented as

$$B_0^* = \int_0^T RC(w_t^*)e^{-rt} dt. \quad (54)$$

B_0^* is the exact amount which covers the expected cost of reclamation. Thus, the agency can reclaim the disturbed land with the initially posted bond even if the firm fails to reclaim. The amount of initial bond a firm has to pay changes by the size of the discount rate.

3. Case Study

We apply the above model to oil and gas development in the Rocky Mountain West. Natural resource booms and busts in the energy industry are a common and almost expected in resource dependent regions. From 1988 to 1998 well counts grew at an annual average rate of

15 percent per year compared to 41 percent per year in the period 1998 to 2008.¹⁰ As of 2009, there were more than 68,000 active oil and gas wells in the state operated by approximately 900 separate firms. This level of activity suggests that reclamation issues will become more important in the future as production in these wells ends and are plugged and released or abandoned. Factors that become important in successful reclamation include the regulatory environment, industry structure, and environmental factors associated with the specific location of the field or well. Given the sheer number of wells and their distribution across varying ecological and precipitation regimes, as well as the sharp increase in development over the past decade, the structure and expectations of reclamation regulations becomes an important policy issue for State and Federal Agencies.

The two primary regulations that provide the regulatory basis for reclamation in oil and gas development are the Stock Raising Homestead Act of 1916 (SRHA) and Mineral Leasing Act (MLA). SHRA allowed non-surface owners access to subsurface mineral rights because the rights were held by the Federal government. The Act required that companies compensate surface owners for loss of use at a fair market agricultural level. Amendments to the Act in the latter half of the 20th century required these compensations to surface owners be in the form of a bond. MLA introduced the bond to ensure compliance with all the lease terms, which includes protection of environment. The Bureau of Land Management's (BLM) policy

¹⁰ Author's calculations based on Wyoming Oil and Gas Conservation Commission (WOGCC) data, available online at <http://wogcc.state.wy.us>.

on bonding allows firms to choose from three options for the right to extract: 1) pay a single-site lease fee of \$10,000; 2) pay a blanket bond of \$25,000 for all the wells they drill in the state; or 3) post a blanket bond of \$150,000 that covers all wells in the entire nation.¹¹

The Agency's current environmental bonding system suffers from two design flaws: the failure to properly account for time value of money, and that the possibility that a bond level is not tied to production (Andersen and Coupal, 2009). Operators do not receive interest on cash bonds and given the long life of a typical oil and gas well, operators incur a substantial opportunity cost of capital as the initial value is largely forfeited over the life of the operating well.

The use of blanket bonds is also inefficient because it is not linked to production. Webber (1985) argues that the amount of fee, deposit, tax, or bond should vary due to several factors, such as a well location, production technique employed, and the amount of oil or gas produced. The blanket bonds and other current bonding requirements result in bonding amounts that are insufficient to cover the full cost of reclamation as a producer increases the number of operating wells. For example, data on the cost of reclaiming 255 orphaned wells in the state of Wyoming from 1997-2007 showed that bond levels were as low as 20 of the actual cost (Table 1).¹² These cost figures represent the actual costs incurred by contractors for the

¹¹ On a per well basis firms need to pay \$10,000 for one lease by the federal surface lease requirement (WORC, 2004).

¹² The data in this analysis were provided by Don Likwartz, *State Oil and Gas Supervisor*, WOGCC (Fall 2008).

WOGCC in the process of fully reclaiming a total of 48 separate locations on state fee lands.

Table 1 shows the actual cost, bond amount, and variance (difference between cost and bond) for the full set of 255 wells: 1) per foot of drilling depth; and 2) per well.

Table 1: Orphaned Oil & Gas Wells in Wyoming (1997-2007)

	Actual Cost	Bond	Variance
per foot of drilling depth	\$10.81	\$1.79	\$9.02
per well	\$29,136	\$5,989	\$23,147

Note: All values in constant 2007 dollars.

While the actual cost of the full reclamation of the 255 wells averaged \$10.81 per foot of well depth, and approximately \$29,136 per well, the bond per foot of well depth was \$1.79, and per well was \$5,589, respectively. Part of the reason why the bond amount per foot of well depth and per well seems low is because the full sample includes some wells that had no bond posted, as their development likely pre-dated the bonding regulations. However, this gives a good indication of the variance that likely currently exists in Wyoming because there is a mix of older wells with no bond posted, and newer wells that are fully bonded. The existence of the older un-reclaimed wells with no bond places an added financial burden on the state, above and beyond insuring that funds are available in the future to reclaim current development.

As shown in Table 1, the posted bond is considerably smaller than the actual costs. This discrepancy between actual costs and posted bond suggests that the current bonding system is

not a viable deterrence to walking away from reclamation obligations. If the bond is set too low and the company reneges on its commitment, the state could get stuck with the bill for the reclamation. On the other hand, if the bond rate is set too high it can have an adverse effect on the industry and a sub-optimal outcome. The optimal bond rate will be determined by a proper accounting of the time dimension of this problem, and incorporation of planned reclamation costs. In order to estimate the optimal bond rate we construct a dynamic optimization model of an oil and gas firm that incorporates the bond and opportunity cost of capital.

This section describes the empirical model we use to estimate optimal bond under different bonding structures. We use GAMS to build a dynamic optimization model based upon the theoretical model in the previous section. The empirical model requires estimation of three functions – average total cost, drilling cost, and reserve addition. We estimate these functions econometrically using data from the Wyoming Oil and Gas Conservation Commission (WOGCC) and the U.S. Energy Information Administration (EIA). All prices and costs used for the estimation are in real 2005 dollars adjusted using the GDP implicit price deflator.

Average production costs

The average production cost function is assumed to increase as the proved reserves

decrease. The regression estimated by Pindyck was:

$$C_1(R) = \frac{m}{R}. \quad (55)$$

It is an inverse function of proved reserves with a constant, m . In reality when there are huge gas reserves firms can choose the reserves with lowest cost to produce, although in this paper we consider each well are identical. We modified equation (55) to:

$$C_1(R) = \frac{m}{\text{average gas reserves}} = \frac{m}{R/n}. \quad (55)$$

Where R represents the total amount of the gas reserve, the average gas reserves are represented as the total reserves divided by the number of wells, n . The number of wells is given by:

$$n = \frac{w}{k} \quad (56)$$

where w represents the depth of wells in thousand feet and k is constant which represents the average depth of wells in thousand feet per well. Equation (55) is then:

$$C_1(R, w) = m \frac{w}{kR}. \quad (57)$$

The data from the Energy Information Agency (EIA) includes annual data on average production costs in the Rocky mountain region from 1989 to 2006. The OLS regression results for the average cost function for the sample of 18 observations is:

$$C_1(R, w) = 998.008 \frac{w}{kR}.$$

(t-statistic) (21.61) (58)

$$R^2 = 0.9699$$

Drilling costs

The drilling cost per foot is represented by the function of the depth of wells:

$$\frac{C_2(w)}{w} = 49.924w + 0.0015117w^2. \quad (59)$$

(t-statistics)(4.016) (15.06)

The quadratic form was chosen because the costs rise exponentially with drill depth.

Reserve additions

The function for the reserve addition is assumed to be strictly increasing and concave.

As the cumulative discovery increases, the reserve addition gets smaller. The amount of gas discovery increases in response to the exploration effort. The discovery function is

represented by the following regression model without a constant:

$$\ln f(w, x) = 1.4106 \ln w - 0.00000006054x \quad (60)$$

(t-statistics) (49.22) (-3.535)

Reclamation costs

The reclamation cost has a high correlation with depth of wells. The reclamation costs are estimated with the data from WOGCC. The data includes the 255 orphaned wells in Wyoming from 1997 to 2007. The regression model for reclamation cost is represented as:

$$RC(w) = 5800.4w \quad (61)$$

(t-statistic) (63.88)

$$R^2 = 0.9880.$$

The reclamation cost function is a linear function from the origin because the cost of plugging and abandoning does not increase exponentially like the exploration cost function.

4. Simulation results

Simulations are carried out under the following conditions.¹³ The simulations are run in GAMS. The interest rate used to a discount rate of 5% annually. The length of the simulation is 20 periods. The well head price of natural gas in Wyoming per million cubic feet (Mcf) at the initial year starts at \$3.50. The price is assumed to increase 1.25% per year as Deacon used it for his simulation. The average depth of well among the orphaned well is 3,500 feet per well. The dynamic model used for the simulation is represented as:

$$\begin{aligned}
 \max_{q,w} J &= \int_0^T [qp - C_1(R,W)q - C_2(w) - RC(w)] e^{-rt} dt - (1 - e^{-rT}) B_0 \\
 \text{s.t. } \dot{R} &= \dot{x} - q \\
 \dot{x} &= f(W, x) \\
 \dot{W} &= w \\
 R \geq 0, q \geq 0, w \geq 0, x \geq 0.
 \end{aligned} \tag{62}$$

The amount of production, q , and the depth of wells, w , are control variables. The amount of proved reserve, R , cumulative gas discovery, x , and cumulative depth of wells, W , are state variables. Deacon separated the depth of wells and the cumulative depth of wells (1993). The average production cost denotes $C_1(R,W)$ from the regression model. The reclamation cost is determined with respect to the depth of wells because gas development causes land disturbance. The developed wells are not reclaimed until the terminal state because the depth of wells assumed to be positive. Thus, all of the developed wells continue their productions. Although the reclamation costs are charged every year, the final reclamation for all wells is

¹³ The dynamic programming model is attached as the appendix.

completed at the terminal state.

The initial well depth is 10 thousand feet and the initial amount of proved reserve is 20 Mcf. The rate of the additional well depth is highest for the first year. Afterwards, the rate of addition continues to decrease, and it hits to zero at the terminal state. Due to the change of the rate of depth additions, the curve of cumulative depth has concave shape. Because Cumulative depth is a variable of the discovery function, the firm does not need higher rate of depth additions after it reached certain level of Cumulative depth.

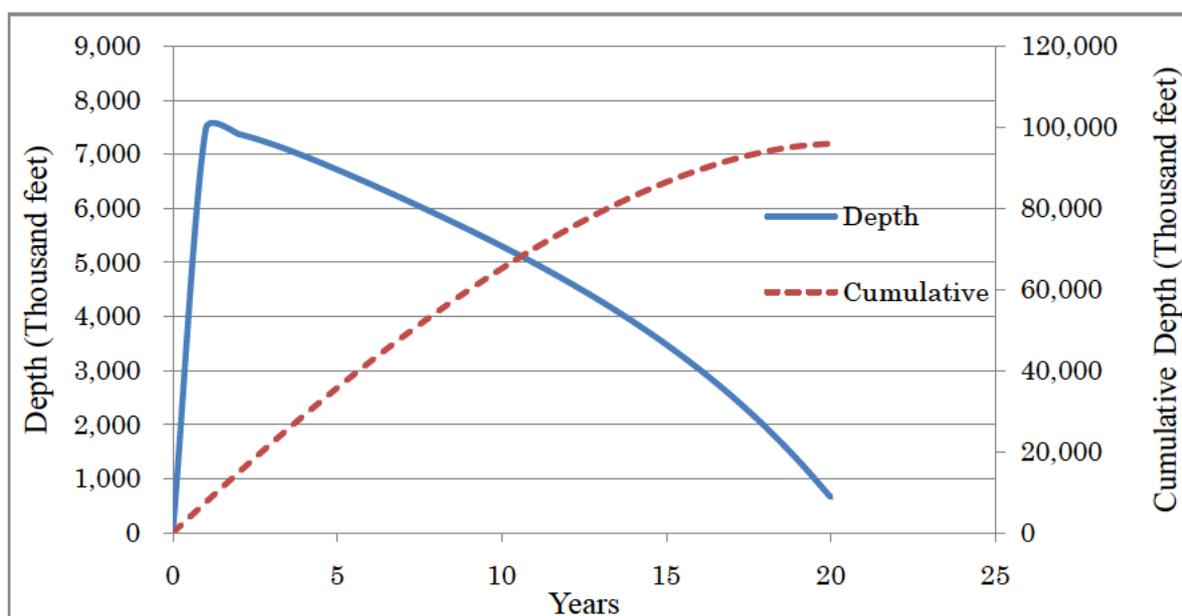


Figure 5. Time paths for drilling (feet $\times 10^3$) and cumulative depth (cf $\times 10^3$).

Although cumulative well depth increases over time, the amount of discovery decreases after the 9th year. The decline of the amount of discovery is explained by depletion of natural gas. When cumulative discovery increases, the rate of discovery decreases. The abundant proved reserve reduces the production cost. The amount of gas reserve holds the almost same level from the 10th year to the 15th year. It indicates that $\dot{R} = f(w, x) - q \approx 0$.

Even if simulation results which have different terminal period, they still have stable state in the figures. If the terminal period is extended to 40 years, the stable term is a figure becomes longer.

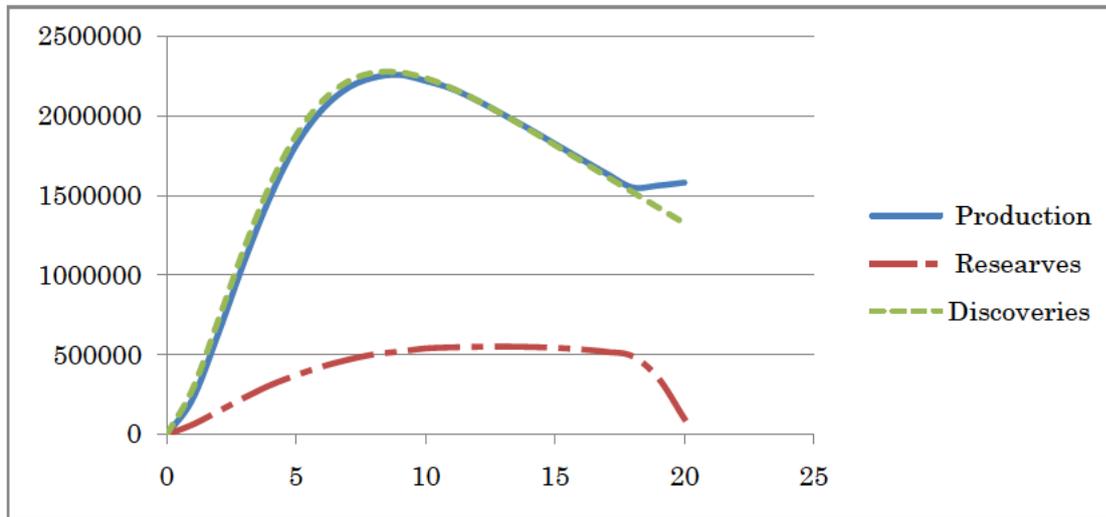


Figure 6. Time paths for reserve, discovery and production (cf × 10⁶).

The cost of reclamation linearly corresponds to the additions of depth. The present value of cumulative reclamation costs are about 386 million dollars. According to the assumption, the depth of the average well is 3,500 feet; about 27,400 wells are drilled until the terminal state, which is calculated from the cumulative well depth. The present value of reclamation cost per well is 14,085 dollars. The estimated reclamation cost is smaller than the actual reclamation cost as shown in table 1; however, if 14,085 dollars is posted as an environmental bond to each well, it is closer to the actual reclamation cost than the actual bond per well.

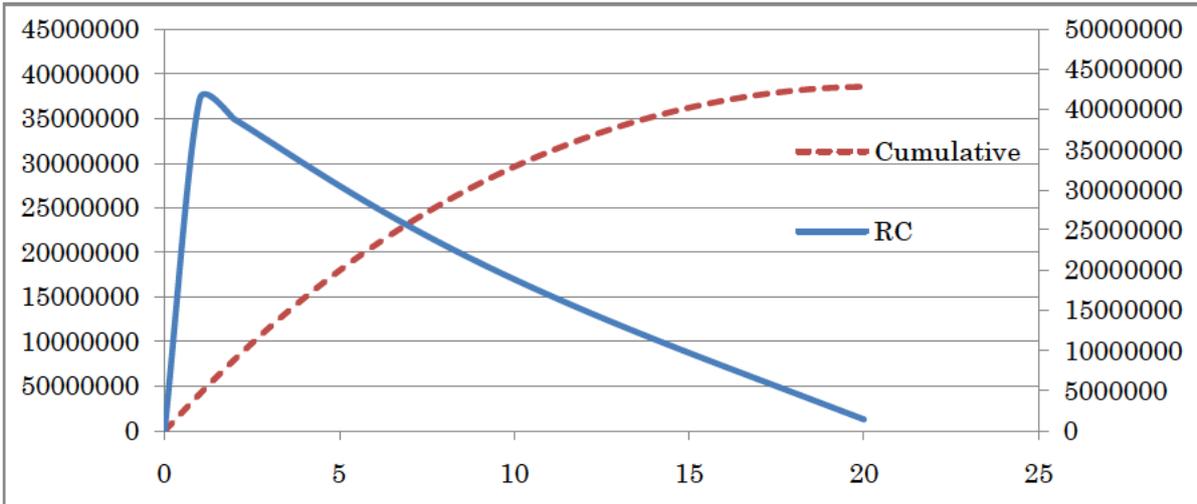


Figure 7. Time paths for current and cumulative reclamation cost (dollar $\times 10^3$)

5. Conclusion

In this paper we presented analytical and numerical solutions for a dynamic model of profit maximization for oil and gas development with reclamation costs and bonding requirement included. The proposed models are variants to both Pindyck (1978) and Deacon (1993). The analytical solutions represented in the phase diagrams suggest that an optimal bond can be chosen that both allows resource extraction and reclamation. The two policy goals are not at cross purposes. Moreover, internalizing reclamation costs into the decision framework of the firm causes an increase in in-place reserves to well ratios. So not only does society gain by restoring ecosystem services lost as a result of the reclamation and restoration process, but it slows resource exploitation.

The empirical model based upon Section 1 estimated a bond rate appropriate for oil and gas firms in the Rocky Mountain West. Parameters were obtained through econometric

estimation and an optimal bonding rate per well was calculated in GAMS. The optimal bond rate was estimated to be \$14,805 per well, which is close to actual data on the average cost of reclamation per well for orphaned wells in Wyoming.

The analysis only considers bonding and reclamation from the firm perspective. Future research will incorporate agency objectives and public good changes, the loss and then resumption of ecosystem services. Additionally an analysis of when reclamation occurs or the rate of reclamation is another need. Agencies are now pushing for interim reclamation, or partial reclamation during the production period. Finally, another area of inquiry is analyzing the effectiveness of maximum allowable disturbed areas that encourage firms to reclaim as much as they can so that they can develop in other areas.

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APPENDIX: GAMS Code for the dynamic programming model

OPTION NLP = MINOS;

Sets

t Time periods /0*20/
tfirst(t) First period of time
tlast(t) Last period of time;
tfirst(t) = yes\$(ord(t) eq 1);
tlast(t) = yes\$(ord(t) eq card(t));

Scalars

delta discount rate /0.05/
p0 initial market (\$ per Bcf) /3500/
R0 initial oil reserve (Bcf) /20/
w0 initial well depth /10/
 q0 initial oil production (Bcf) /150/
k0 average depth(Thousand feet per well) /3.5/
kt wells drilled /0/
e e = 2.71828183 /2.71828183/
x0 initial amt of total addition /0/
m R1 /998.008/
A disc for constant /1/
alpha disc for lnw /1.4106/
alpha2 disc for x /-0.000000060541/
beta C2 /49.24/
beta2 C2 /0.0015117/
gamma1 RC w(t) /5800.4/
PI_t profit at t /0/
year periods /0/
RC Reclamation Cost /0/;

Variables

Z Profit;

Positive Variables

R(t) amount of oil reserve
w(t) depth of wells
k(t) wells drilled
x(t) total addition of oil
p(t) price of oil

$q(t)$ oil output
 $disc(t)$ discovery
 $Pt(t)$ Profit at t
 $DPt(t)$ Profit at t
 $tw(t)$ Total depth;

Equations

$SEQ_R(t)$ State eq of R
 $SEQ_x(t)$ State eq of x
 $SEQ_tw(t)$ State eq of tw
 $EQ_p(t)$ Eq of p
 $EQ_disc(t)$ Eq of discovery
 Profit profit function;

$$EQ_disc(t).. \text{disc}(t) = e = A * (tw(t)**\alpha) * e^{**(\alpha * x(t))};$$

$$SEQ_R(t).. R(t) = e = R0\$(\text{tfirst}(t)) \\ + (R(t-1) + \text{disc}(t) - q(t)) \\ \$(\text{not tfirst}(t));$$

$$SEQ_x(t).. x(t) = e = x0\$(\text{tfirst}(t)) \\ + (x(t-1) + \text{disc}(t)) \\ \$(\text{not tfirst}(t));$$

$$SEQ_tw(t).. tw(t) = e = w0\$(\text{tfirst}(t)) \\ + (tw(t-1) + w(t))\$(\text{not tfirst}(t));$$

$$EQ_p(t).. p(t) = e = p0\$(\text{tfirst}(t)) \\ + (p(t-1) * (1 + \delta/4)) \$(\text{not tfirst}(t));$$

*Boundary conditions

$$w.lo(t) = 0.001;$$

$$R.lo(t) = 0.001;$$

$$q.lo(t) = 0.001;$$

$$p.lo(t) = 0.001;$$

*Initial values of choice variables

$$w.fx(\text{tfirst}(t)) = w0;$$

$$q.fx(\text{tfirst}(t)) = q0;$$

model pindyck /all/;

*NLP solution

solve pindyck using nlp maximizing Z;

DISPLAY w.l,q.l,R.l,p.l, disc.l, Pt.l, DPt.l;

Administrative or Mission Related: Mission Related.

Policy/Action: Each BLM FO administering an oil and gas program will perform bond adequacy reviews on all bonds at least every five (5) years or earlier when warranted. On a fiscal year (FY) basis, these bond reviews will target one-fifth (1/5th) of the total active Statewide Bonds (SWB) and one-fifth (1/5th) of the total active Nationwide Bonds (NWB) for adequacy each FY. The criteria for selecting the SWBs and NWBs for each FY will include the date of last bond review, operator compliance, royalty payment history, and potential well liability as reflected by the number of associated active/inactive wells.

As of September 30, 2017, the BLM has a total of 3,648 active bonds (FY 2017 Annual Report). The BLM FOs reviewed a total of 2,992 bonds from October 1, 2013, to September 30, 2017 (FY 2014 to FY 2017).

According to the BLM's records, the BLM offices secured about 16 percent of the proposed bond increases during the past two years. Therefore, BLM offices will focus on securing the bond increases for those operators who show the higher risk factors. When a FO determines that a bond increase is necessary, the BLM State Office (SO) is responsible for securing the increase.

I. Bankruptcy

In recent years, the BLM saw an increase in bankruptcy cases where the bond amount was inadequate. As of publication of this IM the BLM has adjudicated 102 bankruptcy cases involving Federal oil and gas lease interests. To ensure that adequate financial assurance is in place, the BLM FOs and SOs need to assess and obtain an adequate bond increase prior to bankruptcy proceedings. Therefore, when warranted, the BLM must take a proactive approach to secure bond increases so that the BLM does not incur the costs of well-plugging, abandonment, and reclamation. However, the BLM will work with operators under financial duress on a case-by-case basis to ensure that lease operations can continue consistent with the applicable statutes and regulations.

II. Bond Reviews

The BLM FOs will perform bond adequacy reviews on bonds using the Bond Adequacy Review Instructions (Attachment 1) and the Bond Adequacy Review Point System Worksheet (Attachment 3). When determining bond amounts, the BLM will consider all appropriate factors, including positive factors such as operational history. If the Authorized Officer (AO) determines that the bond amount (individual bond, SWB or

NWB) is insufficient, the AO will take the necessary steps to increase the bond as described in Attachment 2.

NWB Reviews

The Washington Office Fluid Minerals Division (WO-310) will coordinate with SOs to identify the NWBs for review each FY. Recently it was determined that one-half of the NWBs identified by WO-310 with potential for review had no associated wells; therefore, WO-310 will coordinate with SOs to update bond records. The FOs that have wells associated with a NWB that is under review will provide their SOs with the proposed bond amount. If it is determined that a NWB needs to be increased, the SOs will contact the SO holding the NWB (SOHN). Upon receipt of all recommendations, the SOHN will review all submitted bond information and determine a bond amount up to the combined two highest submissions (proposed bond amounts). The SOHN will require the principal to file a bond rider, as appropriate. When there is a significant increase, above 200 percent of the existing bond amount, in the NWB amount, SOHNs may choose to phase in the bond increase, provided that the SOHN tracks the NWB until the BLM obtains the required bond amount within 6 months and does not issue new approval of any Applications for Permit to Drill (APD) for the operator until the new bond is in place. However, if the operator is under bankruptcy this may not be applicable. The SO will coordinate with the Department of the Interior (DOI) Office of the Solicitor relating to all adverse actions and bond increases during bankruptcy proceedings.

SWB Reviews

Each FY, SOs will select the SWBs and coordinate reviews of the selected SWBs with the appropriate FOs. When the SO compiles all SWB recommendations from the FOs, a new SWB amount will be determined up to the combined amount from the two largest submissions (proposed bond amounts). As with NWBs, the SO may choose to phase in the bond increase, provided that the SO tracks the SWB until the BLM obtains the required bond amount with a target to secure within 6 months and does not issue new approval of any APDs for the operator until the new bond is in place. However if the operator is under bankruptcy this may not be applicable. The SO will coordinate with the DOI Office of the Solicitor relating to all adverse actions and bond increases during bankruptcy proceedings.

Bond Review Triggers

In accordance with the BLM Handbook H-3106-1, *Transfers by Assignments, Sublease or Otherwise*, it is appropriate to review bonds in any of the following situations:

1. Prior to approval of a record title assignment or a transfer of operating rights if the subject property^[1] contains any wells that have been idle for 5 years or longer. The FOs will consider the age of the field(s) or wellsite(s), **the number of wells**, and infrastructure, including the total number of reportable^[2] leaks (Major Undesirable Events) and equipment failures;
2. Prior to approval of a successor unit/communitization agreement operator;
3. Whenever a change in operator occurs ~~and the property contains idle wells, i.e. any wells that have been shut in for 7 years or longer~~;
4. If the BLM has not reviewed a new operator's bond within the last 5 years ~~and there is a potential for increased risk due to this operator's lack of a positive operations history~~. The BLM can periodically review and make adjustments to the bond, i.e. reduce the bond amount, once the new operator establishes a satisfactory compliance history in the following years;
5. If the operator of record transfers operations to another operator without the operator of record notifying the BLM;
6. When an operator submits an APD, ~~and the BLM has not reviewed the adequacy of the bond specified for the operation within the last 5 years~~;
7. Whenever the operator(s) fails to promptly plug and abandon a well or adequately reclaim the land per 43 CFR 3162.3-4;
8. Following any incident pertaining to Drilling Without Approval;
9. If the operator has a prior history of non-payment of monies due, such as a failure to comply with a bond increase, payment demands from the Office of Natural Resources Revenue, or monetary demands from the AO;
- ~~10. If the operator has average production per oil well over the last 12 months that is greater than 10 barrels (bbls)/day or gas production per gas well over 60 thousand cubic feet (mcf)/day, the BLM may review the bond amounts to reflect the credit for highly producing wells; or,~~
11. When local conditions involving access to the well, subsidence in the well pad or nearby area, inundation of the wellhead or other such changes take place, the BLM may review the status of the well and make adjustments to the bond, if necessary.

When the U.S. Forest Service or other surface management agency requests the BLM to increase a bond amount, the BLM will ensure that the bond adjustment is consistent with applicable statutes and regulations and will use the BLM Bond Adequacy Review policy to calculate the bond amount.

III. Authorized Officer's Discretion

Based upon the operator's performance, including but not limited to the factors below, the AO may consider reducing or increasing the bond amount.

- ~~If an operator conducts all operations in a prudent and timely manner, while maintaining a history of compliance, the AO may override the increase in the operator's bond during the current bond adequacy review cycle. This is especially true for operators demonstrating progress as they take over aging facilities from past operators and provide due diligence to the operations.~~
- If the operator reduces the liability covered by the bond by plugging and abandoning wells and adequately reclaiming all associated surface disturbance.
- If an operator poses an increased risk, the AO will require an increase for the bond beyond the increased amount derived from using the worksheet included as Attachment 3 of this IM.

Any increase beyond the amount derived from using the worksheet will be determined by the AO based upon the history and the trend of bond increases for similar situations and the liability posed by the operator. However, the adjusted bond amount cannot be less than the required minimum regulatory (43 CFR 3104) amount.

If the AO deviates from the points assigned by the worksheet or the recommended amount of bond increase/decrease, the AO must document the reason(s) and include the documentation in the well file and in the Automated Fluid Minerals Support System (AFMSS).

IV. Bond Adequacy Calculation

The BLM will measure the potential risk by reviewing the operator's overall operations history and the following risk factors:

1. The number of wells shut-in status, such as Gas well Shut-in (GSI), Oil well Shut-in (OSI) or temporarily abandoned (TA) status for more than seven years (relative number of inactive wells);
2. Active/Inactive wells that are 10,000 feet deep or greater;
3. Wells with marginal production (less than 5 bbls/day for oil wells and less than 30 mcf per/day for gas wells);
4. History of Incidences of Noncompliance (INC); and Number of wells plugged with final surface reclamation not completed.
5. **Total number of wells operated under federal leases**

The offices assign points (at \$500 per point) to these risks as shown in Attachment 4.

V. AFMSS Data Entry Requirements

- A. APD Processing. The FOs must timely and accurately enter all bond information into the AFMSS as well as verify and identify all Federal wells (excluding State or fee wells) by their appropriate bond number^[3]. The FO must enter bond information into AFMSS as soon as the AO approves an APD.
- A. Bond Adequacy Review. The AO will verify that the FO has entered all active bonds into the AFMSS and that the FO made the appropriate bond reference to Federal wells. The FO must enter Bond Adequacy Review data into the AFMSS^[4] bond review screen within five business days of conducting the review (see Attachment 6), and document the bond review in the applicable hardcopy case file. The SO will update actions on the bond in the Bond and Surety System (Legacy Rehost 2000 (LR200), Alaska Land Information System, or updated version). When the AO approves a Final Abandonment Notice (FAN), the AO must ensure that the FO removes the well from the associated bond number in the AFMSS which will also disassociate the well from the bond in the Bond and Surety System (LR2000) through inter-system syncing.

VI. Midyear and Annual Reports

The U.S. Government Accountability Office (GAO) report on BLM Oil and Gas Liabilities (GAO-11-292) calls for all SOs with an oil and gas program to submit a consistent and consolidated semi-annual (midyear and annual) Bond Adequacy Review report to the WO-310. The annual bond review report must include all reviews completed in the FY. Attachment 5 provides the format for this report. The SO will run the AFMSS “Bonds Reviewed Report” (GLB.102) for each of their FOs and submit a statewide, consolidated report to WO-310 in a consistent format per attachment 5. Effective FY 2019, NWBs selected for review will also be included in the consolidated annual report. The SWBs selected for review by each SO must also be included in the report as outlined under “Bond Reviews” section II of this IM. Please refer to Attachment 6, AFMSS Bond Adequacy Review Instructions, for details on running this AFMSS report. This report lists the bonds that the FOs reviewed (bond number), whether the bond amount increased, decreased or remained the same, and any necessary remarks. As recommended by the GAO for consistency and accuracy of reporting, SOs will attach a short cover letter with the Annual Report summarizing the number of bond reviews and the resulting number of bond adjustments conducted during the FY. The midyear report (October 1 to March 31) is due to WO-310 on April 30 of each year. The annual report, covering bond adequacy reviews from the beginning of the FY (October 1) to the end of the FY (September 30) is due to WO-310 on October 31 of each FY.

The new reporting format will be required in the midyear and annual bond reports, which must include the following^[5]:

1. Bonds reviewed by bond number;
2. Indicate the Bond type: NWB, SWB, Individual (I), etc.;
3. Number of wells associated with the bond;
4. **Current estimated cost of plugging and reclamation for all wells associated with the bond;**
5. If the recommended bond amount is increased (I), decreased (D), or unchanged (U);
6. Current bond amount and new recommended bond amount (if any);
7. Amount of bond increase/decrease with remarks;
8. Number of bond increases from the previous FY bond reviews that were secured; and
9. Summary data of bond reviews from all FOs in one spreadsheet tab.

VII. Recommended Protocol for Obtaining Bond Increases

Attachment 2 provides detailed information for increasing a bond amount and securing the bond increase. The BLM offices will use their authority to issue an INC to the operator or the operating rights holders that do not comply with the BLM's demand for a bond increase. If further action is required, the BLM will issue a second INC and pursue civil penalties. The BLM will work with the DOI Office of the Solicitor, as appropriate, to identify additional enforcement actions if the operator or operating rights holder does not comply with BLM's civil penalties assessment(s).

Timeframe: This policy is effective upon issuance.

Budget Impact: This policy will increase the time needed to perform the bond adequacy reviews, documentation, reports, and secure bond increases from the operator; but focuses on efforts to pursue the most important bond increases. The intent is to avoid more bankruptcies with inadequate bonds and save the BLM overall costs.

Background: Since the issuance of IM 2013-151, a number of operators have filed for bankruptcy and failed to meet their Federal lease obligations. If these cases reach Chapter 7 bankruptcy, they often result in the BLM incurring the cost of plugging and abandoning of wells and reclamation of associated lands. It is the BLM's responsibility to take proactive measures to deter and minimize the liability associated with high-risk operators.

The recent GAO audit report (GAO-18-250) calls for the BLM to update its bond adequacy review policy to ensure that NWBs and SWBs reflect their associated risks. This IM meets the Secretary of Interior's administration priorities in encouraging environmentally responsible development of energy and minerals on public lands.

Since the BLM secured an average of 16 percent of pending bond increases during the past year, the AO will weigh existing bond increase proposals still pending, what workload remains reasonable considering other priorities demanding staff time, and will have the discretion not to pursue a bond increase, unless the new increase is reasonably justified based upon consideration of the staff time and workload involved in pursuing the increase.

The GAO released Report 11-292, entitled, "Oil and Gas Bonds: BLM Needs a Comprehensive Strategy to Better Manage Potential Oil and Gas Well Liability," [6] where the GAO found that the current BLM policy for bond increases to be vague and ambiguous. The GAO recommended "revising the bond adequacy review policy to more clearly define terms and the conditions that warrant a bond increase." In June 2018 GAO release Report 18-250 entitled "Oil and Gas Wells: Bureau of Land Management Needs to Improve Its Data and Oversight of Its Potential Liabilities" [7] underscored the need for adequate SWBs and NWBs.

Field Office	Operator /Principal	Bonds Reviewed	Bond Type	Review Date	Bond Amount at time of review	Bond Change	Recommended Bond Amount	Increase/Decrease Amount	Remarks/ Status of processing increase	Increase Secured? (Yes/No) (Date entered based on 923 adjudicator remarks)	Verdict Date	Number of Federal Wells in Wyoming (from welldatabase)
BFO	1st NRG Corp.	WYB001244	State Wide	8/10/2020	\$25,000 I		\$135,000	\$110,000	Bond Increase Done	Y	11/19/2020	13
KFO	Abraxas Petro. Corp	WYB001203	Statewide	3/11/2015	\$25,000 I		\$80,000	\$55,000	Done	Y	4/9/2015	1
LFO	Aethon Energy Operating LLC	WYB001517	State Wide	6/16/2015	\$25,000 I		\$352,500	\$327,500	Bond Increase - Done	Y	8/31/2015	35
RSFO	Amplify Energy Operating LLC	WYB001217	State Wide	9/29/2017	\$220,000 D		\$25,000	\$195,000	Done	Y	9/29/2017	3
RSFO	Amplify Energy Operating LLC	WYB001217	State Wide	4/9/2014	\$25,000 I		\$220,000	\$195,000	Done	Y	4/28/2014	3
WFO	Anadarko E&P Onshore LLC Anadarko	WYB000363	State Wide	4/8/2019	\$1,925,068 D		\$480,568	\$1,444,500	Bond Decrease Done	Y	8/1/2019	361
KFO	Petroleum Corporation Anadarko Petroleum Corp et al.	WYB000291	Nation Wide	2/28/2014	\$300,000 I		\$957,500	\$657,500	Bond Increase -Done	Y	3/14/2014	361
BFO	Anadarko Petroleum Corp et al.	WYB000291	Nation Wide	8/28/2014	\$957,500 I		\$1,347,500	\$390,000	Bond Increase -Done	Y	10/3/2014	361
BFO	Anderson Management Co.	WY2307	Statewide	9/19/2014	\$25,000 I		\$415,000	\$390,000	Done	Y	3/24/2014	1
BFO	Ballard Petroleum Holdings LLC	WYB000379	State Wide	8/13/2014	\$25,000 I		\$250,000	\$225,000	Bond Increase - Dond	Y	9/16/2014	45
BFO	Baytex Energy USA Ltd	WYB000590	Statewide	9/25/2013	\$25,000 I		\$132,500	\$107,500	Done	Y	12/23/2013	1
BFO	Black Diamond Energy Inc.	WY3475	State Wide	8/29/2013	\$25,000 I		\$87,500	\$62,500	Pending BFO	No Response Bond Inadequate	43	
NFO	Black Thunder Oil LLC	WYB001898	State Wide	8/9/2018	\$25,000 I		\$60,000	\$35,000	Bond Increased-Done	Y	11/28/2018	59
KFO	BP America Production Co.	WY2924	Statewide	5/25/2018	\$25,000 I		\$375,000	\$350,000	Done	Y	6/1/2018	
RFO	BP America Production Co.	WY2924	Statewide	9/7/2018	\$25,000 I		\$395,000	\$370,000	Done	Y	11/13/2018	
KFO	BrietBurn Operating L.P.	WYB001234	State Wide	10/19/2015	\$25,000 I		\$205,000	\$180,000	Bond Increase - Done	Y	1/12/2016	
RSFO	BrietBurn Operating L.P.	WYB001234	State Wide	9/26/2013	\$25,000 I		\$527,500	\$502,500	Bond Increase - Done	Y	11/18/2013	
NFO	BW Oil LLC	WYB000995	State Wide	11/1/2014	\$25,000 I		\$167,500	\$142,500	Pending NFO	received, bond considered inadquate		
BFO	C & H Well Servicing Inc.	WY2629	Statewide	9/26/2013	\$25,000		\$55,000	\$30,000	Done	Y	10/31/2013	
BFO	Carbon Creek Energy LLC	WYB001977	State Wide	12/15/2020	\$110,000 I		\$118,300	\$8,300	Bond Increase Done	Y	3/9/2021	2151

BFO	CEP-M Purchase LLC	WYB000936	State Wide	8/1/2013	\$25,000 I	\$1,273,000	\$1,248,000	Bond demanded/collected	No - Bond demanded/c collected			
CFO	Chaco Energy Company	WYB000382	State Wide	4/27/2021	\$25,000 I	\$54,450	\$29,450	Pending	Pending			28
KFO	Chaco Energy Company	ES0022	Nationwide	2/12/2016	\$150,000 I	\$307,500	\$157,500	Done	Y	7/25/2016		9
BFO	Chipcore LLC	WYB001119	State Wide	7/22/2016	\$206,504 D	\$190,544	\$15,960	Bond Increase - Done	Y	8/16/2017		3
BFO	Chipcore LLC	WYB001119	State Wide	10/24/2014	\$25,000 I	\$206,504	\$181,504	Bond Increase - Done				3
BFO	Chipcore LLC	WYB001119	State Wide	7/22/2016	\$206,504 I	\$321,504	\$115,000	Bond Increase - Done	Y	12/30/2016 - increased by 90,000 not requested	12/30/2016	3
CFO	Citation Oil & Gas Corp.	MTB000053	NationWide	3/9/2021	\$3,819,946 I	\$7,639,892	\$3,819,946	Pending	Pending			20
NFO	CKT Energy LLC	WYB001175	State Wide	4/19/2018	\$25,000 I	\$77,500	\$52,500	Pending 05/23/2018	No Response			
RSFO	Cody Energy Inc.	WY3256	State Wide	1/28/2014	\$25,000 I	\$55,000	\$30,000	Bond Increase - Done	Y	4/7/2014		
RSFO	Cody Energy inc.	WY3256	State Wide	5/7/2018	\$55,000 I	\$85,000	\$30,000	Bond Decreased -				
RSFO	Cody Energy inc.	WY3256	State Wide	5/7/2018	\$55,000 D	\$25,000	\$30,000	Done	Y	6/13/2018		
BFO	D90	WYB003767	State Wide	2/19/2021	\$25,000 I	\$50,000	\$25,000	Pending	Pending No Increase at this time			2
BFO	Denbury Onshore LLC	MTB000344	Nation Wide	4/9/2020	\$678,100 I	\$2,005,770	\$1,327,670	Bond Increase - Done	Y	5/3/2021		178
BFO	Devon Energy Company	WYB000451	State Wide	11/25/2020	\$2,236,694 D	\$2,208,444	\$28,250	Pending	Pending			269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	4/20/2007	\$231,248 I	\$498,922	\$267,674	Bond Increase - Done	Y	4/25/2007		269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	5/31/2007	\$498,922 I	\$1,169,686	\$670,764	Bond Increase - Done	Y	6/12/2007		269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	6/4/2007	\$1,169,686 I	\$1,839,528	\$669,842	Bond Increase - Done	Y	6/12/2007		269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	7/12/2007	\$1,960,076 D	\$1,879,110	\$80,966	Bond Decrease - Done	Y	7/30/2007		269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	9/25/2013	\$2,364,694 I	\$1,944,694	\$420,000	Bond Increase - Done	Y	2/6/2014		269

BFO	Devon Energy Production Company LP	WYB000451	State Wide	7/12/2007	\$1,839,528 I	\$1,960,076	\$120,548	Bond Increase - Done	Y	7/30/2007	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	6/23/2008	\$2,030,521 D	\$1,989,772	\$40,749	Bond Decrease - Done	Y	6/27/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	6/23/2008	\$1,989,772 I	\$2,017,665	\$27,893	Bond Increase - Done	Y	6/27/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	6/23/2008	\$2,017,665 I	\$2,021,565	\$3,900	Bond Increase - Done	Y	6/27/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	9/29/2008	\$2,056,898 D	\$2,023,598	\$33,300	Bond Decrease - Done	Y	10/28/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	6/13/2007	\$1,879,110 I	\$2,030,521	\$151,411	Bond Increase - Done	Y	6/27/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	8/26/2008	\$2,021,565 I	\$2,056,898	\$35,333	Bond Increase - Done	Y	8/28/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	9/28/2016	\$2,364,694 i	\$2,072,194	\$292,500	Bond Increase - Done	Y	10/11/2016	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	12/10/2008	\$2,086,954 I	\$2,099,330	\$12,376	Bond Increase - Done	Y	12/16/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	1/8/2009	\$2,099,330 I	\$2,117,853	\$18,523	Bond Increase - Done	Y	1/28/2009	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	12/4/2008	\$2,056,898 I	\$2,120,254	\$63,356	Bond Increase - Done	Y	12/9/2008	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	6/25/2009	\$2,117,853 I	\$2,198,442	\$80,589	Bond Increase - Done	Y	7/15/2009	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	10/9/2009	\$2,198,442 I	\$2,315,277	\$116,835	Bond Increase - Done	Y	11/13/2009	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	6/29/2018	\$2,364,694 D	\$2,350,111	\$14,583	Bond Increase - Done	Y	3/25/2019	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	5/27/2010	\$2,375,491 D	\$2,364,694	\$10,797	Bond Increase - Done	Y	5/30/2014	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	5/13/2010	\$2,398,509 D	\$2,375,491	\$23,018	Bond Increase - Done	Y	6/18/2010	269

BFO	Devon Energy Production Company LP	WYB000451	State Wide	11/7/2009	\$2,315,277 I	\$2,398,509	\$83,232 Bond Increase - Done	Y	12/7/2009	269
BFO	Devon Energy Production Company LP	WYB000451	State Wide	11/25/2020	\$2,350,111 D	\$2,321,861	\$28,250 Pending	Pending		269
BFO	DNR Oil & Gas Inc.	WY2231	Statewide	9/9/2014	\$25,000 I	\$62,500	\$37,500 Done	Y	11/3/2014	34
BFO										
RSFO	DNR Oil & Gas Inc.	WY2231	Statewide	9/7/2018	\$25,000 I	\$775,000	\$750,000 Done	Y	12/6/2018	34
BFO	E&B Natural Res Management Corp	WYB000928	State Wide	8/2/2010	\$25,000 I	\$106,323	\$81,323 Bond Increase - Done			
BFO	E&B Natural Res Management Corp	WYB000928	State Wide	8/19/2014	\$106,323 I	\$146,323	\$40,000 Bond Increase - D	Y	10/14/2014	
BFO	E&B Natural Res Management Corp	WYB000928	State Wide	11/13/2017	\$146,323 I	\$161,323	\$15,000 Bond Increase - Done	Y	2/20/2018	
BFO										
BFO	Emerald Operating Co.	WY3479	Statewide	8/20/2014	\$25,000 I	\$67,500	\$42,500 Pending BFO/SDR Dec BFO	SDR remanded to	2/19/2015	53
WFO	Enduro Operating LLC	WYB001079	Statewide	6/16/2017	\$25,000 I	\$77,500	\$52,500 Done	Y	7/12/2017	1
PFO	EOG Resources inc	NM2308	Nation Wide	3/28/2019	\$590,000 I	\$927,625	\$337,625 Bond Increased Done	Y	6/18/2019	138
PFO	EOG Resources Inc.	NM2308	Nationwide	6/28/2017	\$150,000 I	\$285,000	\$135,000 Done	Y	6/20/2017	138
BFO	EOG Resources Inc.	NM2308	Nationwide	4/10/2014	\$150,000 I	\$455,000	\$305,000 Done	Y	9/9/2014	138
CFO	EOG Resources Inc.	NM2308	NationWide	3/8/2021	\$4,757,625 I	\$4,815,125	\$57,500 Increase Done	Y	5/7/2021	138
CFO	FDL Operating LLC	WYB001475	Nation Wide	5/29/2015	\$150,000 I	\$582,500	\$432,500 Bond Increase - Done	Y	6/24/2015	45
BFO	FDL Operating LLC	WYB001475	Nation Wide	3/9/2020	\$582,500 I	\$1,922,162	\$1,339,662 Bond Increase Done	Y	7/1/2020	45
NFO	Frick & Frack Drilling Inc.	WYB001270	State Wide	4/19/2018	\$25,000 I	\$67,500	\$42,500 Pending 05/23/2018	No Response		
RSFO	GMT Energy Company LLC	WY3460	Statewide	11/13/2014	\$25,000 I	\$60,000	\$35,000 Rec'd 10/10/17	Y	10/10/2017	
KFO	Grayson Mill Operating LLC	WYB003861	State Wide	2/6/2020	\$25,000 I	\$65,690	\$40,690 Bond Increase Done	Y	8/17/2020	
BFO	Grey Hawk Operating LIC	WYB001430	State Wide	8/9/2016	\$25,000 I	\$100,000	\$75,000 Pending BFO	Pending BFO working with operator No-bond demanded/c ollected		
BFO	High Plains Gas LLC	WYB000997	State Wide	8/1/2013	\$25,000 I	\$2,335,000	\$2,310,000 demanded/collected		242	
CFO	Hilcorp Energy Co.	WYB000344	Statewide	2/16/2017	\$25,000 I	\$50,000	\$25,000 Done	Y	2/27/2017	38
BFO	Hilcorp Energy Co.	WYB000344	Statewide	9/23/2013	\$25,000 I	\$242,500	\$217,500 Done	Y	4/21/2014	38
KFO	Hilcorp Energy Co.	WYB000344	Statewide	12/26/2017	\$25,000 I	\$792,500	\$767,500 Done	Y	12/26/2017	38
WFO	Hunningtn Energy LLC	WYB000544	Geophysiiical	2/21/2019	\$30,000 D	\$25,000	\$5,000 Bond Decrease Done	Y	3/19/2019	
KFO	Hyperion Oil & Gas	WYB000789	State Wide	1/15/2015	\$25,000 I	\$52,500	\$27,500 Bond Increase - Done	Y	2/20/2015	35
CFO	Hyperion Oil & Gas	WYB000789	State Wide	3/22/2021	\$52,500 I	\$88,150	\$35,650 Pending	Y	5/14/2021	35
CFO	Hyperion Oil & Gas	WYB000789	State Wide	3/22/2021	\$52,600 I	\$88,250	\$35,650 Pending	Pending		35

PFO	Jonah Energy LLC	WYB001525	State Wide	4/14/2014	\$300,000 I	\$3,802,500	\$3,502,500					194
PFO	Jonah Energy LLC	WYB001525	State Wide	6/1/2017	\$3,502,500 I	\$5,010,000	\$1,507,500	Bond Increase - Done	Y	8/24/2017		194
NFO	JP Oil Co Inc.	WY2938	Statewide	6/4/2018	\$25,000 I	\$135,000	\$110,000	Rec'd 11/19/18	Y	11/19/2018		11
BFO	Kennedy Oil	WYB000318	State Wide	4/2/2014	\$25,000 I	\$127,500	\$102,500	Bond Increase - Done	Y	1/25/2014		48
WFO	Kentex Worland LLC	WYB003300	State Wide	4/16/2019	\$25,000 I	\$100,000	\$75,000	Bond Increased Done	Y	8/1/2019		
BFO	Langley Energy Linn Operating Inc., et al	WYB000985	State Wide	8/1/2013	\$25,000 I	\$232,500	\$207,500	Pending BFO			88	
PFO	Lodestone Operating Inc	NMB000501	Nationwide	7/7/2014	\$150,000 I	\$780,000	\$630,000	Done	Y	7/22/2014		1
RSFO	Loral Operating LLC	WYB000732	State Wide	6/30/2014	\$25,000 I	\$72,500	\$47,500	Bond Increase - Done	Y	9/5/2014		4
BFO	M & G Oil and Gas Inc.	WYB000384	State Wide	8/1/2013	\$25,000 I	\$877,500	\$852,500	Pending BFO			194	
RSFO	M & G Oil and Gas Inc.	WYB000767	State Wide	7/26/2018	\$25,000 I	\$75,000	\$50,000	Bond Increased - Done				4
RSFO	M&G Oil & Gas Inc.	WYB000767	Statewide	10/30/2018	\$25,000 I	\$50,000	\$25,000	Pending-Ext Granted		04/15/2021	4	
BFO	M&K oil Co. LLC	WY2123	Statewide	9/7/2018	\$25,000 I	\$72,500	\$47,500	Done	Y	10/3/2018		118
BFO	Marlin Oil Co. LLC	WY2963	Statewide	9/26/2013	\$25,000 I	\$492,500	\$467,500	Done	Y	4/21/2014		1
NFO	Maxim Drlg & Expl.	WY0853	Statewide	5/23/2018	\$25,000 I	\$60,000	\$35,000	Pending - no response			6	
BFO	MBI Oil & Gas LLC	WYB001070	Statewide	9/14/2014	\$25,000 I	\$55,000	\$30,000	Done	Y	11/3/2014		
BFO	McClure Enterprises	WY2400	State Wide	8/2/2013	\$25,000 I	\$67,500	\$42,500	Pending BFO per SDR				
CFO	McCulliss Resources Co Inc	WY2559	Statewide	2/24/2017	\$25,000 I	\$93,500	\$68,500	Done, see bond WYB002540	Y	10/27/2017		6
BFO	Medallion Exploration	UTB000021	Nationwide	8/1/2013	\$150,000 I	\$585,000	\$435,000	Bond demanded/collected			95	
LFO	Meerkat Logistics & Operations LLC	WYB001229	State Wide	5/13/2014	\$25,000 i	\$55,000	\$30,000	Bond Increase - Done	Y	9/3/2014		9
RSFO	Memorial Production Oper. LLC	WYB001217	Statewide	4/10/2014	\$25,000 I	\$220,000	\$195,000	Done	Y	4/28/2014		2
KFO	Merit Energy Co., et al.	WYB000021	Nationwide	2/4/2016	\$150,000 I	\$180,000	\$30,000	Bond Increase - Done	Y	6/10/2016		20
WFO	Merit Energy Co., et al.	WYB000021	Nationwide	5/22/2017	\$150,000 I	\$399,250	\$249,250	Bond Increase - Done	Y	6/30/2017		20
WFO	Mid-Con Ene Operating LLC	NMB001466	Nationwide	4/8/2021	\$1,632,290 D	\$800,000	\$832,290	Pending				
BFO	Mid-Con Energy Operating LLC	NMB001466	Nation Wide	2/13/2020	\$150,000 I	\$854,000	\$704,000	Pending				

CFO	Mid-Con Energy Operating LLC	NMB001137	Nationwide	3/2/2017	\$150,000 I	\$200,000	\$50,000 Done		Y	5/8/2017	
WFO	Mid-Con Energy Operating LLC	MNB001466	Nation Wide	2/5/2019	\$200,000 I	\$1,632,290	\$1,432,290 Bond Increased Done		Y	4/29/2019	
WFO	Mid-Con Energy Operating LLC	NMB001466	Nation Wide	3/11/2020	\$1,632,290 I	\$2,260,020	\$627,730 Pending			Pending	
NFO	Millenium Oil & Gas LLC	WYB000006	Statewide	5/23/2018	\$25,000 I	\$70,000	\$45,000 Pending - no response			Pending no response	
WFO	Morning Star Oil Company	WYB000489	State Wide	6/24/2016	\$60,000 D	\$25,000	\$35,000 Bond Decrease - Done		Y	7/29/2016	1
WFO	Morning Star Oil Company	WYB000489	State Wide	4/9/2010	\$80,000 D	\$60,000	\$20,000 Bond Derease - Done		Y	5/17/2010	1
BFO	Mountain Hawk Energy LLC	WYB000913	State Wide	8/14/2014	\$25,000 I	\$60,000	\$35,000 Pending BFO			Letter returned, undeliverabl	17
BFO	Moutain Hawk Energy LLC	WYB000913	State Wide	9/24/2020	\$25,000 I	\$75,300	\$50,300 Pending			Pending	17
BFO	Mustang Resources LLC	WYB004004	State Wide	1/22/2020	\$25,000 I	\$49,500	\$24,500 Bond Increase - Done		Y	5/20/2020	5
CFO	Natrona County Holdings LLC	WYB003197	State Wide	12/18/2018	\$25,000 I	\$114,000	\$89,000 Bond Increased-Done		Y	3/7/2019	
RSFO	North Shore Expl & Prod LLC	WYB001455	Statewide	6/14/2016	\$25,000 I	\$95,000	\$70,000 Done		Y	6/16/2016	3
BFO	Oilfield Salvage & Service Co.	WY2201	Statewide	10/22/2013	\$25,000 I	\$217,500	\$192,500 Done		Y	12/2/2013	11
CFO	Oilfield Salvage & Service Co.	WY2201	State Wide	2/22/2021	\$215,500 I	\$240,500	\$25,000 Pending CFO			Pending no response	11
WFO	Ott Inc.	WYB002889	State Wide	4/7/2021	\$25,000 I	\$109,000	\$84,000 Pending			Pending	4
BFO	Outlaw Oil & Gas LLC	WYB001438	State Wide	9/15/2020	\$25,000 I	\$275,610	\$250,610 Pending			Pending	1
RFO	Overland Resources LLC	WYB001242	Statewide	5/9/2014	\$25,000 I	\$50,000	\$25,000 Per SDR, no inc req.			Increase Not Required	
VFO	Ovintiv Exploration Inc. et al.	WYB000493	NationWide	8/5/2020	\$150,000 I	\$1,784,000	\$1,634,000 Increase Done		Y	2/19/2021	4
BFO	Pathfinder Energy Inc.	WYB000169	State Wide	9/24/2020	\$25,000 I	\$87,740	\$62,740 Bond Increase Done		Y	4/5/2021	20
BFO	Patriot Energy Resources LLC	WYB001231	State Wide	3/27/2015	\$149,300 D	\$12,500	\$136,800 Bond Decrease - Done		Y	4/15/2015	481
BFO	Patriot Energy Resources LLC	WYB001231	State Wide	3/3/2017	\$52,050 D	\$25,000	\$27,050 Bond Decrease - Done		Y	3/27/2017	481
BFO	Patriot Energy Resources LLC	WYB001231	State Wide	10/4/2016	\$136,800 D	\$52,050	\$84,750 Bond Decrease - Done		Y	10/7/2016	481
BFO	Patriot Energy Resources LLC	WYB001231	State Wide	2/4,18/2015	\$216,675 D	\$149,300	\$67,375 Bond Decrease - Done			Y 2/26/2015 Bond Increases combined	481
BFO	Patriot Energy Resources LLC	WYB001231	State Wide	5/27/2014	\$364,391 D	\$216,675	\$147,716 Bond Decrease -Done		Y	7/8/2014	481
BFO	Patriot Energy Resources LLC	WYB001231	State Wide	5/6/2011	\$25,000 I	\$397,983	\$372,983 Pending			SDR Filed	481

BFO	Patriot Energy Resources LLC	WYB001231	State Wide	8/28/2013	\$25,000 I	\$364,391	\$339,391 Pending	No Response Bond Inadequate		481
BFO	Patriot Energy Resources LLC	WYB001231	State Wide	1/8/2014	\$216,675 I	\$3,259,175	\$3,042,500 Pending BFO	No - Increase Not Provided	481	
BFO	Peabody Natural Gas LLC	WYB001230	Statewide	9/26/2013	\$25,000 I	\$160,000	\$135,000 Done	Y	11/7/2013	120
BFO	Peak Powder River Resources LLC	WYB001106	State Wide	8/14/2014	\$25,000 I	\$62,500	\$37,500 Bond Increase - Done	Y	10/3/2014	45
CFO	Petcon Associates LTD	WYB001173	Statewide	7/21/2016	\$25,000 I	\$329,200	\$304,200 Bond Demanded/Collected	Bond Demanded/C ollected	2	
NFO	POC-1LLC Powder Battalion	WYB002504	State Wide	4/23/2018	\$50,000 I	\$285,000	\$235,000 Bond Indrease - Done	Y	4/13/2018	21
BFO	Holdings LLC	WYB002914	Statewide	3/7/2019	\$25,000 I	\$223,291	\$198,291 Done	Y	12/20/2018	62
KFO	Proven Petroleum Inc	WYB001437	Statewide	12/15/2014	\$25,000 I	\$55,000	\$30,000 Done	Y	5/14/2015	
RSFO	QEP Energy Company, et al.	ESB0000024	Nation wide	10/18/2019	\$2,120,000 D	\$1,870,000	\$250,000 Bond Decrease Done	Y	1/2/2020	5
PFO	QEP Energy Company, et al.	ESB000024	Nationwide	11/7/2014	\$150,000 I	\$2,020,000	\$1,870,000 Done	Y	1/16/2015	5
BFO	Redbud E&P Inc.	WYB001434	State Wide	1/23/2014	\$25,000 I	\$134,365	\$109,365 Bond Increase - Done	Y	4/1/2014	44
BFO	Redbud E&P Inc.	WYB001434	State Wide	8/9/2016	\$134,365 I	\$209,365	\$75,000 Bond Increase - Done	Y	1/26/2017	44
BFO	Richardson Operating Co.	WYB000295	Statewide	3/5/2014	\$25,000 I	\$155,000	\$130,000 Done	Y		37
BFO	RIM Operating Inc	WYB001235	State Wide	7/17/2018	\$25,000 I	\$72,500	\$47,500 Bond Increase-Done	Y	3/12/2019	19
BFO	RIM Operating Inc	WY3281	Statewide	9/27/2013	\$25,000 I	\$247,500	\$222,500 BFO vacated, no inc. req	Increase Not Required		19
KFO	Ryckman Creek Resources LLC	WYB000796	Statewide	6/6/2016	\$25,000 I	\$165,000	\$140,000 Done	Y	9/16/2016	
KFO	Schmid Development Company LLC	WY3058	Individual	10/21/2010	\$10,000 I	\$120,000	\$110,000 Pending	Extension given until 6/2011		
BFO	Sheridan Production Co LLC	WYB001020	Statewide	9/5/2014	\$25,000 I	\$230,000	\$205,000 Done	Y	10/21/2014	
NFO	Signal Hill Company LLC	WY3153	Statewide	5/23/2018	\$25,000 I	\$70,000	\$45,000 Rec'd 10/22/18	Y	10/22/2018	35
BFO	Slawson Exploration Co. Inc.	WYB000351	Statewide	1/23/2014	\$25,000 I	\$267,500	\$242,500 Done	Y	2/18/2014	3
BFO	SM Energy Company	MT1022	Nationwide	8/12/2016	\$150,000 I	\$157,500	\$7,500 Done	Y	9/28/2016	1
KFO	Spire Storage West LLC	WYB000796	State Wide	2/16/2016	\$25,000 I	\$165,000	\$140,000 Bond Increase - Done	Y	9/19/2016	
BFO	Storm Cat Energy USA Oper	WYB001067	Statewide	9/26/2013	\$25,000 I	\$187,500	\$162,500 Done	Y	10/22/2013	701
KFO	Stove Creek Oil Inc.	WY2854	State Wide	8/11/2015	\$10,000 I	\$72,500	\$62,500 Pending KFO	No Response Bond		

BFO	Summit Gas Resources Inc	WYB000093	Statewide	8/14/2014	\$25,000 I	\$567,500	\$542,500 Pending BFO	No Response Bond		159	
RSFO	Summit Gas Resources Inc	WYB000093	Statewide	10/24/2014	\$25,000 I	\$92,500	\$67,500 Pending RSFO	No Response Bond		159	
BFO	Summit Gas Resources	WYB000093	Statewide	6/10/2019	\$323,438 D	\$303,612	\$19,826 Bond Decrease Done	Y	7/26/2019		159
BFO	Summit Gas Resources Inc.	WYB00093	State Wide	10/4/2019	\$303,612 D	\$280,504	\$23,108 Bond Decrease Done	Y	11/4/2019		159
RSFO	Sunshine Valley Petroleum Corp	WYB000253	State Wide	1/21/2016	\$25,000 I	\$65,000	\$40,000 Bond Increase - Done	Y	12/5/2017		50
CFO	Sunshine Valley Petroleum Corp	WYB000253	State Wide	3/22/2021	\$65,000 I	\$258,490	\$193,490 Pending	Pending			50
CFO	Sunshine Valley Petroleum Corp	WYB000253	State Wide	3/22/2021	\$65,000 I	\$258,490	\$193,490 Pending	Pending			50
CFO	T-rex Oil Inc.	WYB000448	State Wide	9/13/2016	\$25,000 I	\$80,000	\$55,000 Bond Increase - Done	Y	3/2/2017		2
RFO	Tap management Inc.	WYB001549	State Wide	6/23/2020	\$50,000 I	\$208,677	\$158,677 Pending	Withdrawn			
BFO	Three Forks Resources LLC	WYB001088	Statewide	9/26/2013	\$25,000 I	\$80,000	\$55,000 Done	Y	11/6/2013		24
KFO	TOC Oil Inc.	WYB003166	State Wide	9/4/2019	\$55,000 I	\$232,545	\$177,545 Done	Y	2/25/2020		8
KFO	TOC Oil Inc.	WYB003166	State Wide	9/4/2019	\$55,000 I	\$232,545	\$177,545 Bond Increased-Done	N			8
KFO	TOC Oil Inc.	WYB003166	State Wide	9/4/2019	\$55,000 I	\$232,545	\$177,545 Bond Increased-Done	N			8
BFO	True Oil LLC	WY3020	Statewide	1/23/2014	\$25,000 I	\$100,000	Replace with NW \$75,000 bond, no inc req.	Increase Not Required			40
PFO	Ultra Resources Inc.	WYB000566	Statewide	9/16/2014	\$25,000 I	\$3,925,000	\$3,900,000 Done	Y	10/2/2014		3
LFO	United Natural Gas LLC	WYB000491	Statewide	6/29/2017	\$25,000 I	\$52,500	\$27,500 Done	Y	8/18/2017		
LFO	Urban Natural Gas LLC	WYB000491	State Wide	6/19/2017	\$25,000 I	\$52,500	\$27,500 Bond Increase - Done	Y	8/21/2017		
RSFO	Urban Oil & Gas Group LLC	WYB001227	State Wide	3/8/2017	\$25,000 I	\$247,500	\$222,500 Bond Increase - Done	Y	4/11/2017		53
KFO	Urban Oil & Gas Group LLC	WYB001227	State Wide	3/27/2017	\$247,500 I	\$307,500	\$60,000 Bond Increase - Done	Y	4/28/2017		53
BFO	USA Exploration & Production	WYB000903	Statewide	1/8/2014	\$25,000 I	\$709,000	\$684,000 Pending BFO	No Response Bond		9	
BFO	Valkyrie Operating LLC	WYB003262	State Wide	7/1/2019	\$75,000 I	\$2,301,771	\$2,226,771 Bond Increased-Done	N			17
BFO	Valkyrie Operatings LLC	WYB003262	State Wide	10/23/2019	\$75,000 I	\$125,850	\$50,850 Bond Increasw - Done	Y	9/3/2020		17
WFO	Valkyrie Resources LLC	WYB002907	State Wide	10/23/2018	\$25,000 I	\$75,000	\$50,000 Bond Increased-Done	Y	2/25/2019		17
WFO	Vaquero Big Horn LLC	WYB002800	State Wide	10/19/2018	\$25,000 I	\$50,000	\$25,000 Bond Increased-Done	Y	3/7/2019		7
RFO	Vaquero Energy Inc.	WYB000953	Statewide	5/22/2014	\$25,000 I	\$85,000	\$60,000 Done	Y	6/6/2014		

NFO	Ventrum Energy Corp.	WYB001104	Individual	12/2/2014	\$10,000 I	\$42,500	\$32,500 Pending NFO	received, bond considered inadquate		
RSFO	Wapiti Operating LLC	WYB002783	State Wide	2/3/2021	\$25,000 I	\$160,995	\$135,995 Pending		Pending Y 5/7/2010 Revised from \$325,000	2
WFO	Washakie Energies Company LLC	WY2648	State Wide	4/24/2009	\$25,000 I	\$200,000	\$175,000 Bond Increase - Done		5/7/2010	1
WFO	Washakie Energies Company LLC	WYB2648	State Wide	4/7/2015	\$200,000 I	\$295,000	\$95,000 Bond Increase - Done Pending - no	Y	12/31/2015	1
NFO	Washburn, Lee	WY3289	Statewide	5/23/2018	\$25,000 I	\$75,000	\$50,000 response	Pending - no response		
BFO	Wellstar Corporation	WYB002081	State Wide	7/24/2018	\$25,000 I	\$40,000	\$15,000 Bond Increase - Done	Y	2/5/2019	4
NFO	Western American Res LLC	WYB000884	State Wide	9/10/2018	\$95,000 D	\$52,500	\$42,500 Bond Decrease -Done	Y	10/30/2018	15
NFO	Western American LLC	WYB000884	State Wide	4/19/2018	\$67,500 I	\$95,000	\$27,500 Bond Increas -Done	Y	10/30/2018	15
RSFO	Western American Resources LLC	WYB00884	State Wide	11/30/2015	\$25,000 I	\$67,500	\$42,500 Bond Increase - Done	Y	11/30/2017	15
RSFO	Western American Resources LLC	WYB00884	State Wide	8/28/2017	\$25,000 I	\$67,500	\$42,500 Bond Increase - Done	Y	11/30/2017	15
RFSO	Western Natural Gas Assoc LLC	WY2332	Statewide	9/26/2014	\$25,000 I	\$25,000	\$0 No Increase Req.		Increase Not Required	
KFO	Wexpro Company, et al	ESB000183	Nationwide	2/17/2015	\$150,000 I	\$225,000	\$75,000 Done	Y	7/27/2015	27
BFO	Whiting Oil & Gas Corp Windsor Energy Group	WYB000155	Statewide	9/9/2014	\$25,000 I	\$185,000	\$160,000 Done	Y	9/22/2014	3
BFO	Whiting Oil & Gas Corp Windsor Energy Group LLC	WYB000085	Statewide	9/9/2014	\$25,000 I	\$330,000	\$305,000 Done	Y	12/3/2014	77
BFO	Wold Energy Partners LLC	WYB000484	State Wide	6/18/2020	\$261,683 D	\$45,396	\$216,287 Pending		Pending	77
CFO	Wold Energy Partners LLC	WYB001463	Statewide	11/9/2014	\$25,000 I	\$62,500	\$37,500 Done	Y	12/22/2016	15
BFO	Wold Oil Properties LLC	WY3330	Statewide	9/16/2014	\$25,000 I	\$135,000	\$110,000 Inc. Req.		Increase Not Required	9
BFO	WYOIL Corporation	WY2846	Statewide	9/15/2014	\$25,000 I	\$117,500	\$92,500 Done	Y	8/13/2015	5
BFO	Yates Petroleum Corp.	NMB000434	Nationwide	4/10/2014	\$150,000 I	\$1,280,000	\$1,130,000 Done	Y	5/16/2014	

Fill in this information to identify the case:

Debtor 1 Moriah Powder River, LLC

Debtor 2 _____
(Spouse, if filing)

United States Bankruptcy Court for the: District of Wyoming

Case number 19-20699

FILED
TIM J. ELLIS, Clerk

MAY 01 2020

United States Bankruptcy Court
District of Wyoming

Official Form 410

Proof of Claim

12/15

Read the instructions before filling out this form. This form is for making a claim for payment in a bankruptcy case. Do not use this form to make a request for payment of an administrative expense. Make such a request according to 11 U.S.C. § 503.

Filers must leave out or redact information that is entitled to privacy on this form or on any attached documents. Attach redacted copies of any documents that support the claim, such as promissory notes, purchase orders, invoices, itemized statements of running accounts, contracts, judgments, mortgages, and security agreements. Do not send original documents; they may be destroyed after scanning. If the documents are not available, explain in an attachment.

A person who files a fraudulent claim could be fined up to \$500,000, imprisoned for up to 5 years, or both. 18 U.S.C. §§ 152, 157, and 3571.

Fill in all the information about the claim as of the date the case was filed. That date is on the notice of bankruptcy (Form 309) that you received.

Part 1: Identify the Claim

1. **Who is the current creditor?** United States Department of the Interior - Bureau of Land Management (BLM) Wyoming State Office
Name of the current creditor (the person or entity to be paid for this claim)

Other names the creditor used with the debtor _____

2. **Has this claim been acquired from someone else?** No
 Yes. From whom? _____

3. **Where should notices and payments to the creditor be sent?** **Where should notices to the creditor be sent?** **Where should payments to the creditor be sent? (if different)**

Federal Rule of Bankruptcy Procedure (FRBP) 2002(g)	<u>Phyllisina Leslie, Department of the Interior</u> Name <u>1849 C Street NW, MS 5358</u> Number Street <u>Cheyenne WY 82003</u> City State ZIP Code Contact phone <u>202-208-3175</u> Contact email <u>phyllis.leslie@sol.doi.gov</u>	<u>Nicholas Vassallo, Assistant U.S. Attorney</u> Name <u>PO Box 668</u> Number Street <u>Cheyenne WY 82003</u> City State ZIP Code Contact phone <u>307-772-2124</u> Contact email <u>nick.vassallo@usdoj.gov</u>
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Uniform claim identifier for electronic payments in chapter 13 (if you use one):

4. **Does this claim amend one already filed?** No
 Yes. Claim number on court claims registry (if known) _____ Filed on _____
MM / DD / YYYY

5. **Do you know if anyone else has filed a proof of claim for this claim?** No
 Yes. Who made the earlier filing? _____

Part 2: Give Information About the Claim as of the Date the Case Was Filed

6. Do you have any number you use to identify the debtor? No
 Yes. Last 4 digits of the debtor's account or any number you use to identify the debtor: _____

7. How much is the claim? \$ 67,521,968.00 Does this amount include interest or other charges?
 No
 Yes. Attach statement itemizing interest, fees, expenses, or other charges required by Bankruptcy Rule 3001(c)(2)(A).

8. What is the basis of the claim? Examples: Goods sold, money loaned, lease, services performed, personal injury or wrongful death, or credit card.
 Attach redacted copies of any documents supporting the claim required by Bankruptcy Rule 3001(c).
 Limit disclosing information that is entitled to privacy, such as health care information.
Performance of reclamation on oil and gas authorizations

9. Is all or part of the claim secured? No
 Yes. The claim is secured by a lien on property.
Nature of property:
 Real estate. If the claim is secured by the debtor's principal residence, file a *Mortgage Proof of Claim Attachment* (Official Form 410-A) with this *Proof of Claim*.
 Motor vehicle
 Other. Describe: _____
Basis for perfection: _____
 Attach redacted copies of documents, if any, that show evidence of perfection of a security interest (for example, a mortgage, lien, certificate of title, financing statement, or other document that shows the lien has been filed or recorded.)
Value of property: \$ _____
Amount of the claim that is secured: \$ _____
Amount of the claim that is unsecured: \$ _____ (The sum of the secured and unsecured amounts should match the amount in line 7.)
Amount necessary to cure any default as of the date of the petition: \$ _____
Annual Interest Rate (when case was filed) _____ %
 Fixed
 Variable

10. Is this claim based on a lease? No
 Yes. Amount necessary to cure any default as of the date of the petition. \$ See attachment

11. Is this claim subject to a right of setoff? No
 Yes. Identify the property: Setoff rights for any federal monies or debt owed to director
by a Federal agency.

12. Is all or part of the claim entitled to priority under 11 U.S.C. § 507(a)?

No

Yes. Check all that apply:

Amount entitled to priority

A claim may be partly priority and partly nonpriority. For example, in some categories, the law limits the amount entitled to priority.

Domestic support obligations (including alimony and child support) under 11 U.S.C. § 507(a)(1)(A) or (a)(1)(B).

\$ _____

Up to \$2,775* of deposits toward purchase, lease, or rental of property or services for personal, family, or household use. 11 U.S.C. § 507(a)(7).

\$ _____

Wages, salaries, or commissions (up to \$12,475*) earned within 180 days before the bankruptcy petition is filed or the debtor's business ends, whichever is earlier. 11 U.S.C. § 507(a)(4).

\$ _____

Taxes or penalties owed to governmental units. 11 U.S.C. § 507(a)(8).

\$ _____

Contributions to an employee benefit plan. 11 U.S.C. § 507(a)(5).

\$ _____

Other. Specify subsection of 11 U.S.C. § 507(a)() that applies.

\$ _____

* Amounts are subject to adjustment on 4/01/16 and every 3 years after that for cases begun on or after the date of adjustment.

Part 3: Sign Below

The person completing this proof of claim must sign and date it. FRBP 9011(b).

If you file this claim electronically, FRBP 5005(a)(2) authorizes courts to establish local rules specifying what a signature is.

A person who files a fraudulent claim could be fined up to \$500,000, imprisoned for up to 5 years, or both. 18 U.S.C. §§ 152, 157, and 3571.

Check the appropriate box:

- I am the creditor.
- I am the creditor's attorney or authorized agent.
- I am the trustee, or the debtor, or their authorized agent. Bankruptcy Rule 3004.
- I am a guarantor, surety, endorser, or other codebtor. Bankruptcy Rule 3005.

I understand that an authorized signature on this Proof of Claim serves as an acknowledgment that when calculating the amount of the claim, the creditor gave the debtor credit for any payments received toward the debt.

I have examined the information in this Proof of Claim and have a reasonable belief that the information is true and correct.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on date 04/27/2020
MM / DD / YYYY

CHRISTOPHER HITE Digitally signed by CHRISTOPHER HITE
Date: 2020.04.27 20:28:04 -06'00'

Signature

Print the name of the person who is completing and signing this claim:

Name Chris Hite
First name Middle name Last name

Title Branch Chief, Fluid Minerals Adjudication

Company Bureau of Land Management, Wyoming State Office
Identify the corporate servicer as the company if the authorized agent is a servicer.

Address 5353 Yellowstone Road
Number Street

Cheyenne, WY 82009
City State ZIP Code

Contact phone 307-775-6176 Email chite@blm.gov

Attachment to the United States' Proof of Claim filed on behalf of the Bureau of Land Management, Wyoming State Office (BLM), in regard to Chapter 11 bankruptcy, United States Bankruptcy Court for the District of Wyoming, Moriah Powder River LLC, Case No. 19-20699.

The Debtor, Moriah Powder River LLC, is a recognized lessee and/or operating rights owner in the leases associated with the oil and gas wells, impoundments, and/or right of way access listed on the attached Exhibit A. Pursuant to the Mineral Leasing Act of 1920 (30 U.S.C. § 181 *et seq.*) and 43 CFR § 3106, other standards and procedures as set forth in applicable laws, regulations, lease terms and conditions, applicable orders and notices, and applicable provisions of law, the Debtor is obligated to conduct operations in a manner which protects the mineral resources, other natural resources and environmental quality. These obligations include, but are not limited to:

- 1) The plugging of wells no longer capable of producing,
- 2) Reclamation of the surface for each particular operation.

These obligations are often known as decommissioning or permanent plugging and abandonment ("P&A") liabilities.

1. Basis: This proof of claim is protective in nature. Regulatory obligations of debtors, such as P&A liabilities, are mandatory injunctive obligations of the debtors for which proofs of claim need not be filed under the Bankruptcy Code. Nevertheless, this claim is filed in a protective fashion to protect the United States' rights with respect to such obligations of this Debtor, and to the extent the statutory, regulatory, and/or lease obligations that are the subject of this Protective Proof of Claim are determined to be "claims" within the meaning of the Bankruptcy Code and, therefore, dischargeable. The United States does not concede that such obligations do give rise to "claims" that are dischargeable in bankruptcy. The United States reserves the right to take future actions to enforce any such obligations of the Debtor. Nothing in this Proof of Claim constitutes a waiver of any rights of the United States or an election of remedies. In the event that it is determined that any or all of the obligations imposed by the statutory, regulatory, and contractual lease provisions give rise to "claims" as defined in the Bankruptcy Code, this Proof of Claim is filed for such claims with respect to the oil and gas wells and/or right of way access listed on Exhibit A, and for all other obligations giving rise to "claims" within the meaning of the Bankruptcy Code with respect to the foregoing well sites/right of ways. Additionally, this proof of claim does not reflect Moriah Powder River LLC's obligations pursuant to federal statutes and regulations to pay penalties for failure to comply with these obligations, nor does it reflect any other obligations of the Debtor in connection with their federal oil and gas lease interests. The United States reserves all rights to file application(s) for administrative expenses in connection with P&A and any other lease and regulatory liabilities at the appropriate time. See paragraph 3 (Amount of Claim) for the estimated cost of performance to decommission the 3,450 oil and gas wells, 268 impoundments, and/ 8 rights of ways listed on Exhibit A.

2. Justification: The Debtor presently is the lessee or operating rights owner for 3,450 lease wells, 268 impoundments, and/or 8 rights of way listed on the attached tables. Pursuant to 43 C.F.R. 3106.7-2 and .7-6, the Debtor is liable for plugging wells and abandoning facilities that the Debtor drilled, installed or used. Accordingly, BLM is filing this claim to provide notice that it does not waive its statutory or regulatory requirements or the lease terms for the Debtor to

perform decommissioning for these leases/wells when its P&A obligations accrue.

3. Amount of Claim: To the extent that the Debtor's unperformed P&A liabilities are considered to be a claim, and to the extent this claim requires BLM to estimate the cost of decommissioning performance in the event that BLM requires the Debtor to perform decommissioning, but the Debtor defaults on its P&A obligations/fails to perform, BLM has calculated the total estimated decommissioning cost to be \$67,521,968 in protective liabilities (see tables in Exhibit A) for the identified leases. While the United States reserves the right to amend this claim to assert subsequently discovered liabilities, if warranted, it does not anticipate that the total cost of decommissioning performance, which was calculated based on existing variables at the time of this filing, will exceed this amount.

4. Credits and Setoffs: This claim reflects the estimated liability of the Debtor. The identification of any sums held subject to set off is without prejudice to any other right under 11 U.S.C. § 553 to set off, against a claim/debt owed to Debtor by this or any other Federal Agency.

The United States is a unitary creditor for purposes of set off and expressly reserves its setoff rights with respect to the Debtor in this bankruptcy.

NOTICE:

Please send all notices in this bankruptcy to the following: (notices only) Phyllis Leslie, Esq., 1849 C Street, MS 5358, Washington, DC 20240, 202-208-3175; (notices and payment arrangements); Nicolas Vassallo, Esq., Assistant U.S. Attorney, U.S. Attorney's Office, District of Wyoming, P.O. Box 668, Cheyenne, WY 82003.

EXHIBIT A
Oil and Gas Wells
BLM Wyoming State Office
Case Number: 19-20699 (Chapter 11)
Moriah Powder River LLC

(see attached tables)

Buffalo Field Office Reservoirs and ROWs.Abbreviated

Lease or agreement Number	Impoundment or ROW	POD Name	IMPOUNDMENT NAME	ROW Estimated Cost	Impoundment Estimated Cost
WYW148368A	Impoundment	Whiskey Draw	6/1/4778		\$ 6,470
WYW147275	Impoundment	Durham Ranch	12-1 Stock Res		\$ 2,729
WYW142092	Impoundment	Quarter Circle 9	14-27-5179		\$ 31,133
WYW146362	Impoundment		21-11-5378 Res		\$ 29,250
WYW032847	Impoundment	Camp John Beta	21-20		\$ 6,750
WYW146362	Impoundment		23-10-5378 Res		\$ 30,425
WYW146362	Impoundment	Big Corral/Jwl Dr. Add. 1	23-15-5378		\$ 23,500
WYW146361	Impoundment	BCU Epsilon	23-2-5378		\$ 19,288
WYW146611E	Impoundment		24-13-5077		\$ 4,225
WYW148368A	Impoundment	Whiskey Draw	24-33		\$ 5,375
WYW161224	Impoundment	Tincom Butte	29-1 Res		\$ 1,763
WYW146300	Impoundment	Tincom Butte	30-1		\$ 5,678
WYW159267X	Impoundment	Camp John Beta	31-30-5175		\$ 11,500
WYW149556A	Impoundment		31-9-5077		\$ 11,660
WYW146300	Impoundment	Tincom Butte	32-1		\$ 3,893
WYW142092	Impoundment	Quarter Circle 9	34-27		\$ 12,875
WYW29941	Impoundment		41-19-4371		\$ 10,186
WYW159267X	Impoundment	Camp John Beta	41-20		\$ 24,075
WYW142095	Impoundment	Quarter Circle 9	44-26-5179		\$ 37,436
WYW98030	Impoundment	Bar 76 POD	5-1		\$ 1,728
WYW143990	Impoundment	Spotted Horse Creek	5-1 Res		\$ 19,580
WYW143990	Impoundment	Spotted Horse Creek	9-1 Res		\$ 18,750
WYW159267X	Impoundment	Camp John Beta	Amos Res		\$ 17,250
WYW107257	Impoundment	North Wright Addition	BLM 32-18-4472		\$ 2,578
WYW149556A	Impoundment		Bugher #1		\$ 4,398
WYW161252	Impoundment	South Spotted Horse	Butte #7 Res		\$ 8,155
WYW174152	Impoundment	Iberlin	Camino		\$ 17,780
WYW146361	Impoundment	BCU Epsilon	Cottonwood #1		\$ 25,120
WYW146361	Impoundment	BCU Epsilon	Cottonwood North #1		\$ 19,505
WYW151909A	Impoundment	Bear Draw	Dixon Ranch Res.		\$ 18,750
WYW146362	Impoundment	Big Corral/Jwl Dr. Add. 1	E 22-10		\$ 39,525
WYW146362	Impoundment	Big Corral/Jwl Dr. Add. 1	E 23-15		\$ 11,760
WYW146362	Impoundment	Big Corral/Jwl Dr. Add. 1	E 43-15		\$ 5,653
WYW146611E	Impoundment	Williams Draw Alpha	Gossamer Condor		\$ 7,335
WYW146611E	Impoundment	Williams Draw Alpha	Headcut		\$ 9,084
WYW169283X	Impoundment	Whiskey Draw	Iberlin Res		\$ 26,400
	ROW		Indian Creek Water Line Pump Station	\$ 15,040	
WYW159267A	Impoundment	Camp John Beta	Kerry Enl Res		\$ 24,000
WYW004075	Impoundment	Lazy B	Kindt Res		\$ 3,750
WYW146611E	Impoundment	Williams Draw Alpha	Kitty Hawk		\$ 4,310
WYW172632	Impoundment	Double Tank	Little Buffalo Reservoir		\$ 41,587
WYW143990	Impoundment	Spotted Horse Creek	Muddy Feet Res		\$ 3,288

Buffalo Field Office Reservoirs and ROWs.Abbreviated

Lease or agreement Number	Impoundment or ROW	POD Name	IMPOUNDMENT NAME	ROW Estimated Cost	Impoundment Estimated Cost
WYW148368A	Impoundment	Whiskey Draw	P 33-2		\$ 5,461
WYW159267X	Impoundment	Camp John Augusta	P22-1 Res		\$ 13,000
WYW159267X	Impoundment	Camp John Augusta	P26-1 Res		\$ 11,750
	Impoundment	West Sussex	Pit #1		\$ 11,200
	Impoundment		Pit #2		\$ 2,314
	Impoundment		Pit #3		\$ 2,164
WYW141652	Impoundment		Reno 42-06-4273		\$ 6,788
WYW152545	Impoundment	Jewell Draw / Big Corral	Res 17-1		\$ 628
WYW149556A	Impoundment	Powder Valley	Res 29-1		\$ 12,170
WYW149556A	Impoundment	Powder Valley	Res. 29-2		\$ 4,325
WYW144516	Impoundment	Gas Draw	Rollman Res.		\$ 9,630
WYW142087	Impoundment	Ruby Expansion	Ruby 11-4		\$ 25,770
WYW151909A	Impoundment	Bear Draw	Sandstone Res		\$ 19,460
WYW148368A	Impoundment	Whiskey Draw	Simon		\$ 3,732
WYW148368A	Impoundment	Whiskey Draw	Simon Iberlin Res.		\$ 5,165
WYW129532	Impoundment	Spotted Horse	Sorenson #1 Shale Pit Res		\$ 20,700
WYW129532	Impoundment	Spotted Horse	Sorenson #2 Red Hill Res		\$ 16,300
WYW164166	Impoundment	South Spotted Horse	Spring Res.		\$ 9,103
WYW146611E	Impoundment	Williams Draw Alpha	Sunrise		\$ 4,424
WYW132917	Impoundment	Gas Draw	Tarver #1 Res		\$ 1,883
WYW132917	Impoundment	Gas Draw	Tarver #2Res.		\$ 10,083
WYW108556	Impoundment		Thunder Basin Reservoir		\$ 8,680
WYW160301	Impoundment	NW Croton	Ty Stock Reservoir		\$ 45,050
WYW168997	Impoundment		Upper Willow		\$ 9,680
WYW168748	Impoundment	Savageton II	Virgil		\$ 2,750
WYW146611E	Impoundment	Williams Draw Alpha	Voyager		\$ 5,579
WYW146611E	Impoundment	Williams Draw Alpha	Well		\$ 11,544
WYW146362	Impoundment	Jewell Draw / Big Corral	William J. Moore #3		\$ 8,755
WYW139649	Impoundment	ANC 5	Leavitt 21-6		\$ 3,314
WYW139649	Impoundment	ANC 5	Reno 44-1		\$ 9,829
WYW141222	Impoundment	ANC 5	Iberlin 44-8		\$ 13,303
WYW138433	Impoundment	ANC 5	Reno 32-12		\$ 2,483
WYW137629	Impoundment	ANC 5	A5-R3		\$ 29,735
WYW129018	Impoundment	ANC 5	A5-R4		\$ 15,126
WYW148817A	Impoundment	ANC 5	A5-R6		\$ 19,875
WYW127711	Impoundment	ANC 5	Iberlin 43-21		\$ 9,835
WYW137629	Impoundment	ANC 5	A5-R8		\$ 19,300
WYW148817A	Impoundment	ANC 5 Add	Ramsbottom 43-35-4274		\$ 22,781
WYW128628	Impoundment	Bullwhacker III	Moore 41-3-4277		\$ 9,772
WYW149561A	Impoundment	Bullwhacker II	Moore 34-4		\$ 9,305
WYW149827	Impoundment	Bullwhacker III	Moore 23-5-4277		\$ 13,419
WYW146827	Impoundment	Bullwhacker III	Moore 41-5-4277		\$ 7,907

Buffalo Field Office Reservoirs and ROWs.Abbreviated

Lease or agreement Number	Impoundment or ROW	POD Name	IMPOUNDMENT NAME	ROW Estimated Cost	Impoundment Estimated Cost
WYW137109	Impoundment	Bullwhacker III	Iberlin 21-6-4277 (TAYLOR)		\$ 5,180
WYW137109	Impoundment	Bullwhacker III	Iberlin 23-6-4277		\$ 7,805
WYW14990	Impoundment	Bullwhacker III	Moore 43-7-4277		\$ 9,000
WYW146826	Impoundment	Bullwhacker III	Moore 33-9-4277		\$ 8,382
WYW146561A	Impoundment	Bullwacker II	Moore 23-10		\$ 13,666
WYW147342	Impoundment	Bullwhacker III	Jim Moore #2		\$ 11,379
WYW147342	Impoundment	Bullwhacker III	Moore 13-11-4277		\$ 5,157
WYW146828	ROW	Bullwhacker III	14-14	\$ 32,402	
WYW146828	Impoundment	Bullwhacker III	Moore 34-14-4277		\$ 7,288
WYW146828	Impoundment	Bullwhacker III	Moore 41-14-4277		\$ 6,877
WYW146561A	Impoundment	Bullwacker II	Moore 34-15		\$ 15,056
WYW146829	Impoundment	Bullwhacker III	Moore 31-15-4277 A		\$ 11,403
WYW146829	Impoundment	Bullwhacker III	Moore 31-15-4277 B		\$ 6,642
WYW152972	Impoundment	Bullwhacker III	Moore 32-21-4277		\$ 9,475
WYW152972	Impoundment	Bullwhacker III	Moore 42-21-4277		\$ 11,110
WYW152972	Impoundment	Bullwhacker III	Moore 11-22-4277		\$ 9,752
WYW152973	ROW	Bullwhacker III	23-22-4277	\$ 29,021	
WYW146830	Impoundment	East Bullwacker	BLM 22-23-4277		\$ 7,885
WYW146831	Impoundment	Bullwhacker III	Shearing Pen Stock		\$ 12,072
WYW146831	ROW	Bullwhacker III	24-27-4277	\$ 29,185	
WYW100386	Impoundment	Bullwhacker III	Moore 32-28-4277 B		\$ 9,250
WYW146830	Impoundment	Bullwhacker III	Moore 23-35-4277		\$ 16,565
WYW152836	Impoundment	ANC	22-4-4374		\$ 5,021
130622	Impoundment	East Bullwacker	Johnson 23-19-4376		\$ 12,614
WYW147320	Impoundment	East Bullwacker	Johnson 33-30-4376		\$ 9,697
WYW147320	Impoundment	East Bullwacker	Johnson 42-31-4376		\$ 9,059
WYW126409	Impoundment	Bullwhacker III	33-2-4377		\$ 27,628
WYW126409	Impoundment	Bullwhacker III	34-2-4377		\$ 15,042
WYW152675	Impoundment	Bullwhacker III	Johnson 33-3-4377		\$ 8,175
WYW146833	Impoundment	Bullwhacker III	Johnson 24-4-4377		\$ 12,478
WYW146834	Impoundment	Bullwhacker III	Johnson 13-5-4377		\$ 9,345
WYW146833	Impoundment	Bullwhacker III	Johnson 33-5-4377		\$ 8,017
WYW146835	Impoundment	Bullwhacker III	Johnson 23-7-4377		\$ 6,559
WYW146835	Impoundment	Bullwhacker III	Johnson 24-7-4377		\$ 13,606
WYW146836	Impoundment	Bullwhacker III	Johnson 12-8-4377		\$ 11,285
WYW146837	Impoundment	Bullwhacker III	Johnson 23-9-4377		\$ 5,692
WYW146837	Impoundment	Bullwhacker III	Johnson 23-9-4377 B		\$ 6,331
WYW146837	Impoundment	Bullwhacker III	Johnson 31-9-4377		\$ 20,898
WYW052284	Impoundment	Bullwhacker III	13-12-4377		\$ 10,715
WYW052284	Impoundment	Bullwhacker III	Johnson 24-12-4377		\$ 7,846
WYW052284	Impoundment	Bullwhacker III	Johnson 42-12-4377		\$ 12,552
WYW135921	Impoundment	Bullwhacker III	Johnson 12-14-4377		\$ 9,567

Buffalo Field Office Reservoirs and ROWs.Abbreviated

Lease or agreement Number	Impoundment or ROW	POD Name	IMPOUNDMENT NAME	ROW Estimated Cost	Impoundment Estimated Cost
WYW135921	Impoundment	Bullwhacker III	Johnson 23-15-4377		\$ 13,915
WYW146838	Impoundment	Bullwhacker III	Johnson 23-17-4377		\$ 4,308
WYW146838	Impoundment	Bullwhacker III	Johnson 44-17-4377		\$ 10,621
WYW146838	Impoundment	Bullwhacker III	Johnson 11-18-4377		\$ 42,937
WYW149561A	Impoundment	Bullwacker II	Johnson 31-19		\$ 19,444
WYW149561A	Impoundment	Bullwacker II	Johnson 43-19		\$ 21,164
WYW146840	Impoundment	Bullwhacker III	Johnson 22-20-4377		\$ 10,476
WYW146841	Impoundment	Bullwhacker III	Johnson 12-21-4377		\$ 10,206
WYW146841	Impoundment	Bullwhacker III	Johnson 43-21-4377		\$ 12,955
WYW135921	Impoundment	Bullwhacker III	Johnson 34-22-4377		\$ 11,701
WYW135921	Impoundment	Bullwhacker III	Johnson 43-22-4377		\$ 14,723
WYW135921	Impoundment	Bullwhacker III	23-23-4377		\$ 11,108
WYW152971	Impoundment	Bullwhacker III	Johnson 41-23-4377		\$ 33,134
WYW127420	ROW	Bullwhacker III	Johnson 14-24-4377	\$ 26,031	
WYW152976	Impoundment	Bullwhacker III	32-25-4377		\$ 20,521
WYW50143	Impoundment	Bullwhacker III	Johnson 12-27-4378		\$ 6,422
WYW146843	Impoundment	Bullwhacker III	Johnson 21-28-4377		\$ 20,495
WYW146843	Impoundment	Bullwhacker III	Johnson 22-28-4377		\$ 13,774
WYW146840	Impoundment	Bullwhacker III	Johnson 31-29-4377		\$ 11,023
WYW146840	Impoundment	Bullwhacker III	Johnson 42-29-4377		\$ 2,994
WYW146840	Impoundment	Bullwhacker III	Johnson 43-29-4377		\$ 10,342
WYW146839	Impoundment	Bullwhacker III	Johnson 13-30-4377		\$ 10,791
WYW146839	Impoundment	Bullwhacker III	Johnson 14-30-4377		\$ 9,941
WYW146839	Impoundment	Bullwhacker III	Johnson 21-30-4377		\$ 4,884
WYW149561A	Impoundment	Bullwacker II	41-31-4377		\$ 27,940
WYW149561A	Impoundment	Bullwacker II	Johnson 32-32		\$ 13,954
WYW146844	Impoundment	Bullwhacker III	Johnson 31-33-4377		\$ 6,035
WYW146844	Impoundment	Bullwhacker III	Johnson 34-33-4377		\$ 11,944
WYW146844	Impoundment	Bullwhacker III	Johnson 43-33-4377		\$ 9,972
WYW146842	Impoundment	Bullwhacker III	Johnson 11-34-4377		\$ 12,216
WYW146856	Impoundment	West Bullwacker	34-11-4378		\$ 7,500
WYW146856	Impoundment	West Bullwacker	44-11-4378		\$ 24,785
WYW146859	Impoundment	West Bullwacker	21-24-4378		\$ 15,960
WYW149561A	Impoundment	West Bullwacker	Spore		\$ 12,500
WYW144543	Impoundment	Ridgeline/Bullwhacker II Adds	Johnson 43-26-4477		\$ 44,210
WYW134240	Impoundment	Bullwhacker III	Johnson 34-31-4477		\$ 19,635
WYW146847	Impoundment	West Bullwacker	44-31-4477		\$ 15,834
WYW144512	Impoundment	South Pleasantville	Canyon		\$ 7,500
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 41-3		\$ 7,597
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 43-3		\$ 26,134
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 44-3		\$ 9,303
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 22-4		\$ 12,104

Buffalo Field Office Reservoirs and ROWs.Abbreviated

Lease or agreement Number	Impoundment or ROW	POD Name	IMPOUNDMENT NAME	ROW Estimated Cost	Impoundment Estimated Cost
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 23-4		\$ 22,925
WYW169261	Impoundment	KINGWOOD I	IBERLIN 33-5-4676		\$ 5,116
WYW174678	Impoundment	KINGWOOD I	IBERLIN 34-6-4676		\$ 14,371
WYW146823	Impoundment	KINGWOOD I	IBERLIN 22-7-4676		\$ 11,315
WYW146823	Impoundment	KINGWOOD I	IBERLIN 12-8-4676		\$ 15,849
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 21-13		\$ 9,518
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 22-14		\$ 9,271
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 14-22		\$ 7,120
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 14-23		\$ 6,135
WYW151545A	Impoundment	Wormwood Unit #1	Iberlin 41-23		\$ 6,471
WYW89863	ROW	Kingwood I	BLM 13-1-4677	\$ 21,836	
WYW150648A	ROW	Kingsbury 3 Sundry	BLM 12-8-4677	\$ 14,574	
WYW089863	ROW	Kingwood I	BLM 31-11-4677	\$ 10,199	
WYW145616	Impoundment	KINGWOOD I	IBERLIN 41-12-4677		\$ 12,213
WYW150648A	Impoundment	Kingsbury 5	Brubaker 13-19-4677		\$ 21,500
WYW112380	Impoundment	Kingwood 2	Brubaker 31-24-4677		\$ 12,788
WYW112380	Impoundment	Kingwood 2	Brubaker 34-24-4677		\$ 11,450
WYW143553	Impoundment	N. Pleasantville II	NP2-R1		\$ 11,451
WYW143554	Impoundment	N. Pleasantville II	Nisselius 32-9-4774		\$ 13,378
WYW143552	Impoundment	S. Pleasantville II	Enl SP2-R3		\$ 2,333
WYW145617	Impoundment	NW Kingsbury	33-2-4777		\$ 10,250
WYW150648A	Impoundment	Kingsbury II	R14a-21-4777		\$ 5,050
WYW150648A	Impoundment	Kingsbury II	R-14b-21-4777		\$ 11,075
WYW150648A	Impoundment	Kingsbury II	32-27-4777		\$ 16,430
WYW150648A	Impoundment	Kingsbury II	33-27-4777		\$ 13,661
WYW150648A	Impoundment	Kingsbury II	43-27-4777		\$ 19,525
WYW150648A	Impoundment	Kingsbury II	28-21-4777		\$ 13,450
WYW150648A	Impoundment	Kingsbury	34-30-4777		\$ 20,000
WYW148333A	Impoundment	SRU 3	Williams #3		\$ 18,286
WYW148333A	Impoundment	SRU-5	BARBER CK 44-1-4876		\$ 64,392
WYW148333A	Impoundment	SRU-5	BARBER CK 44-1-4876-A		\$ 38,226
WYW146286	Impoundment		SRU Pit #2		\$ 23,000
WYW148333A	Impoundment	SRU-5	Elynor (AKA High Noon)		\$ 11,128
WYW148333A	Impoundment	SRU-5	BARBER CK 21-11-4876		\$ 12,903
WYW148333A	Impoundment	SRU-5	BARBER CK 31-11-4876		\$ 29,147
WYW148333A	Impoundment	SRU-5	NW PEARSON		\$ 37,356
WYW148333A	Impoundment	SRU-5	BARBER CK 33-12-4876		\$ 39,139
WYW148333A	Impoundment	SRU 2	Williams #1		\$ 10,990
WYW148333A	Impoundment	SRU-5	WEST PEARSON		\$ 25,563
WYW148333A	Impoundment	SRU 4	Wyoming		\$ 59,599
WYW148333A	Impoundment	SRU-5	UPPER HIGH NOON		\$ 24,925
WYW127804	Impoundment	SG Palo 2	Barrow Pit		\$ 21,442

Buffalo Field Office Reservoirs and ROWs.Abbreviated

Lease or agreement Number	Impoundment or ROW	POD Name	IMPOUNDMENT NAME	ROW Estimated Cost	Impoundment Estimated Cost
WYW146270	Impoundment		Pearson #2		\$ 2,725
WYW159289	Impoundment	Red Top Draw	Tiny		\$ 1,025
WYW142806	Impoundment	Red Top Draw	Scoria Peak		\$ 5,650
WYW142806	Impoundment	Red Top Draw	Scoria Ridge		\$ 9,650
WYW142806	Impoundment	Red Top Draw	Red Top		\$ 24,975
WYW169017	Impoundment		Toad Stool		\$ 3,100
WYW149966	Impoundment	CARR II Add II	32-5-4975 Pit		\$ 20,615
WYW147305	Impoundment	CARR II Add II	31-15-4975 Pit		\$ 24,473
WYW033136	Impoundment	SPU 1 & 2 & LASKIE TOO	GRASSY FLAT		\$ 17,625
WYW153772C	Impoundment	SRU-5	BARBER CK 34-35-4976		\$ 18,875
WYW144231	Impoundment	South Bear	South Bear 23-7-4978 Pit		\$ 3,213
WYW128583	Impoundment	Kitty	Barlow Trust 34-18-5073		\$ 3,408
WYW143547	Impoundment	Kitty	Kitty 12-31-5073		\$ 9,300
WYW047681	Impoundment	CARR DRAW V ADD 1	HAYDEN 13-6-5075		\$ 13,735
WYW150674A	Impoundment	CARR DRAW V ADD 1	HAYDEN 21-7-5075		\$ 14,513
WYW150674A	Impoundment	CARR DRAW V ADD 1	HAYDEN 33-7-5075-A		\$ 10,700
WYW150674A	Impoundment	Carr Draw 5	Maybelene		\$ 17,978
WYW150674A	Impoundment	Carr Draw II	Hannah		\$ 186,683
WYW150674A	Impoundment	CARR II Add II	MIDDLETON #2		\$ 21,375
WYW39563	Impoundment	Carr Draw 1	Amore		\$ 7,603
WYW146810	Impoundment	CARR II Add II	34-26-5075		\$ 12,388
WYW146810	Impoundment	CARR II Add II	MARLEY		\$ 22,595
WYW146810	Impoundment	Carr Draw II	41-33-5075		\$ 10,653
WYW150674A	Impoundment	CARR DRAW V ADD 1	HAYDEN 42-1-5076		\$ 13,588
WYW146290	Impoundment	Carr Draw III	34-23-5076		\$ 21,714
WYW150674A	Impoundment	SPU 1 & 2 & LASKIE TOO	LANEY		\$ 17,000
WYW150674A	Impoundment	SPU 1 & 2 & LASKIE TOO	BESSIE HOLMS		\$ 16,750
WYW156615A	Impoundment	Long Draw	Williams 34-2		\$ 16,468
WYW156615A	Impoundment	Long Draw	Scott-33-9		\$ 6,663
WYW156615A	Impoundment	Long Draw	Scott-13-10		\$ 9,995
WYW156615A	Impoundment	Long Draw	Scott-33-10		\$ 18,943
WYW156615A	Impoundment	Long Draw	Hensley-12-11 (LISTED AS BUTCHER 12-11 IN WYO PERMIT)		\$ 10,518
WYW156615A	Impoundment	Long Draw	Hensley-22-11 (LISTED AS BUTCHER 22-11 IN WYO PERMIT)		\$ 10,970
WYW156615A	Impoundment	LONG DRAW II	MILLIE LaFLEUR		\$ 21,615
WYW156615A	Impoundment	LONG DRAW II	LONG DRAW ENLARGEMENT		\$ 36,846
WYW156615A	Impoundment	LONG DRAW II	KIRK #2		\$ 15,618
WYW148838A	Impoundment	Cedar Draw Unit 1	32-6		\$ 239,785
WYW148838A	Impoundment	Cedar Draw Unit 1	Reservoir 41-8		\$ 13,503
WYW148838A	Impoundment	Cedar Draw Unit 2	33-15-5375		\$ 24,875
WYW148838A	Impoundment	Cedar Draw Unit 2	42-16-5375		\$ 12,875
WYW148838A	Impoundment	Cedar Draw Unit 2	Backdoor		\$ 27,042
WYW148838A	Impoundment	Cedar Draw Unit 2	Snake Charmer		\$ 12,875

Buffalo Field Office Reservoirs and ROWs.Abbreviated

Lease or agreement Number	Impoundment or ROW	POD Name	IMPOUNDMENT NAME	ROW Estimated Cost	Impoundment Estimated Cost
WYW148838A	Impoundment	Cedar Draw Unit 2	Sweet		\$ 12,875
WYW148838A	Impoundment	Cedar Draw Unit 1	Reservoir 22-17		\$ 14,313
WYW148838A	Impoundment	Cedar Draw Unit 2	George		\$ 10,328
WYW148838A	Impoundment	Cedar Draw Unit 1	North Stock Reservoir		\$ 10,068
WYW148838A	Impoundment	Cedar Draw Unit 2	34-20-5375		\$ 10,000
WYW148838A	Impoundment	Cedar Draw Unit 2	P13-20-5375		\$ 95,371
WYW148838A	Impoundment	Cedar Draw Unit 2	P23-20-5375		\$ 70,237
WYW148838A	Impoundment	Cedar Draw Unit 2	33-21-5375		\$ 16,450
WYW148838A	Impoundment	Cedar Draw Unit 2	31-28-5375		\$ 13,750
WYW148838A	Impoundment	Cedar Draw Unit 2	P42-29-5375		\$ 55,950
WYW146815	Impoundment	Cedar Draw Unit 1	Reservoir 43-32		\$ 22,720
WYW-162026	Impoundment	Carr Draw 1 Add 1	LOVE 44-04-5075 B		\$ 9,922
WYW150674A	Impoundment	Carr Draw 5	Steer		\$ 11,188
WYW-162026	Impoundment	Carr Draw 1 Add 1	JULY		\$ 21,600
WYW-162026	Impoundment	Carr Draw 1 Add 1	LOVE 11-10-5075 B		\$ 14,440
WYW-162026	Impoundment	Carr Draw 1 Add 1	LOVE 22-10-5075		\$ 6,712
WYW150674A	Impoundment	Carr Draw 5	Doyle		\$ 12,875
WYW150674A	Impoundment	Carr Draw 5	Ellie		\$ 107,526
WYW150674A	Impoundment	Carr Draw 5	Enl Burnt Station		\$ 22,875
WYW150674A	Impoundment	Carr Draw 5	Bud's		\$ 9,800
WYW150674A	Impoundment	Carr Draw 5	Chevelle		\$ 13,468
WYW-39563	Impoundment	Carr Draw 1 Add 1	LOVE 21-22-5075		\$ 13,275
WYW-39563	Impoundment	Carr Draw 1 Add 1	LOVE 43-23-5075		\$ 33,432
WYW-39563	Impoundment	Carr Draw 1 Add 1	SHEEPCAMP		\$ 7,623
				\$ 178,287	\$ 4,447,681
				Bonded amount is equal to estimated cost of reclamation for ROWs and Reservoirs	
				Total estimated cost of reclamation for ROWs and Reservoirs	
				is:	\$ 4,625,968

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW0266638	4901924057	NW KINGSBURY FEDERAL	32-4	Protective	\$12,000
WYW0266638	4901924051	NW KINGSBURY FEDERAL	41-3	Protective	\$12,000
WYW0266638	4901924059	NW KINGSBURY FEDERAL	41-4	Protective	\$12,000
WYW0266638	4901924058	NW KINGSBURY ADD I FED	34-4*	Protective	\$12,000
WYW0266638	4901924084	NW KINGSBURY FEDERAL		10-Dec Protective	\$12,000
WYW0266638	4901924053	NW KINGSBURY FEDERAL		4-Dec Protective	\$12,000
WYW0266638	4901924049	NW KINGSBURY FEDERAL	14-3	Protective	\$12,000
WYW0266638	4901924054	NW KINGSBURY FEDERAL	14-4	Protective	\$12,000
WYW0266638	4901924080	NW KINGSBURY FEDERAL	14-9	Protective	\$12,000
WYW0266638	4901924085	NW KINGSBURY FEDERAL	21-10	Protective	\$12,000
WYW0266638	4901924055	NW KINGSBURY FEDERAL	21-4	Protective	\$12,000
WYW0266638	4901924056	NW KINGSBURY FEDERAL	23-4	Protective	\$12,000
WYW0266638	4901924081	NW KINGSBURY FEDERAL	23-9	Protective	\$12,000
WYW0266638	4901924086	NW KINGSBURY FEDERAL	32-10	Protective	\$12,000
WYW0266638	4901924050	NW KINGSBURY FEDERAL	32-3	Protective	\$12,000
WYW0266638	4901924061	NW KINGSBURY FEDERAL	32-8	Protective	\$12,000
WYW0266638	4901926177	NW KINGSBURY FEDERAL	34-3	Protective	\$12,000
WYW0266638	4901924123	NW KINGSBURY FEDERAL	34-8	Protective	\$12,000
WYW0266638	4901924082	NW KINGSBURY FEDERAL	34-9	Protective	\$12,000
WYW0266638	4901924087	NW KINGSBURY FEDERAL	41-10	Protective	\$12,000
WYW0266638	4901924062	NW KINGSBURY FEDERAL	41-8	Protective	\$12,000
WYW0266638	4901924052	NW KINGSBURY FEDERAL	43-3	Protective	\$12,000
WYW0266638	4901924060	NW KINGSBURY FEDERAL	43-4	Protective	\$12,000
WYW0266638	4901924083	NW KINGSBURY FEDERAL	43-9	Protective	\$12,000
WYW0266638	4901920802	PHOENIX UNIT		1 Protective	\$100,000
WYW0266638	4901920592	CULP DRAW II		65 Protective	\$100,000
WYW0266641	4901927386	KINGSBURY III FEDERAL	14-10	Protective	\$12,000
WYW0266641	4901920851	CDU	C80	Protective	\$100,000
WYW0266642	4901924093	KINGSBURY IV FEDERAL	12-15*	Protective	\$12,000
WYW0266642	4901924088	KINGSBURY IV FEDERAL	14-23	Protective	\$12,000
WYW0266642	4901921006	CDU	C130	Protective	\$100,000
WYW0266642	4901924008	KINGSBURY III FEDERAL	21-15	Protective	\$12,000
WYW0266642	4901924089	KINGSBURY IV FEDERAL		23-Dec Protective	\$12,000
WYW0266642	4901924040	KINGSBURY IV FEDERAL	23-23	Protective	\$12,000
WYW0266642	4901924007	KINGSBURY IV FEDERAL	32-15	Protective	\$12,000
WYW0266642	4901924090	KINGSBURY IV FEDERAL	34-15	Protective	\$12,000
WYW0266642	4901924005	KINGSBURY IV FEDERAL	43-15	Protective	\$12,000
WYW0266642	4901925308	CDU		142 Protective	\$100,000
WYW0266642	4901920990	CDU	C116	Protective	\$100,000
WYW0266642	4901920998	CDU	C124	Protective	\$100,000
WYW0266642	4901921008	CDU	C125	Protective	\$100,000
WYW0266642	4901921488	CDU	C135	Protective	\$100,000
WYW0266642	4901921045	CDU	C136	Protective	\$100,000
WYW0266643	4901926516	KINGWOOD 2 BRUBAKER		24-Dec Protective	\$12,000
WYW0266643	4901924121	KINGWOOD 2 BRUBAKER	14-24	Protective	\$12,000
WYW0266643	4901926515	KINGWOOD 2 BRUBAKER	21-24	Protective	\$12,000
WYW0266643	4901924120	KINGWOOD 2 BRUBAKER	23-24	Protective	\$12,000
WYW0266643	4901920962	CDU	H94	Protective	\$100,000
WYW0266643	4901920229	CDU	C6	Protective	\$100,000
WYW0266643	4901920154	CDU	C3-I	Protective	\$100,000
WYW0266650	4901920952	CDU	H-97	Protective	\$20,000
WYW0266650	4901927156	WILLOW CREEK FEDERAL		5-Dec Protective	\$12,000
WYW0266650	4901927208	WILLOW CREEK FEDERAL	14-5	Protective	\$12,000
WYW0266650	4901927157	WILLOW CREEK FEDERAL	21-5	Protective	\$12,000
WYW0266650	4901927158	WILLOW CREEK FEDERAL	23-5	Protective	\$12,000
WYW0266650	4901920249	CDU	H32I	Protective	\$100,000
WYW0266650	4901920884	CDU	H85-I	Protective	\$100,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW0266651	4901920206	CDU	H16I	Protective	\$20,000
WYW0266651	4901920218	CDU	H14I	Protective	\$20,000
WYW0266651	4901920977	CDU	H107	Protective	\$100,000
WYW0266651	4901923967	KINGWOOD 3 FEDERAL	32-1	Protective	\$12,000
WYW0266651	4901927589	TABLE MOUNTAIN 2 TM CBM	6-12 4576	Protective	\$12,000
WYW0266651	4901927591	TABLE MOUNTAIN 2 TM CBM	6-21 4576	Protective	\$12,000
WYW0266651	4901927201	WILLOW CREEK FEDERAL	14-8	Protective	\$12,000
WYW0266651	4901927195	WILLOW CREEK FEDERAL	21-17	Protective	\$12,000
WYW0266651	4901927200	WILLOW CREEK FEDERAL	23-8	Protective	\$12,000
WYW0266651	4901927214	WILLOW CREEK NC		17-Dec Protective	\$12,000
WYW0266651	4901920968	CDU	H-108	Protective	\$100,000
WYW0266651	4901921007	CDU	H127	Protective	\$100,000
WYW0266653	4900524201	CDU	H33	Protective	\$100,000
WYW0271122	4900559445	BBC PINE TREE S WALKER CR	12-3*	Protective	\$5,000
WYW0271122	4900559396	BBC PINE TREE S WALKER CR	32-3	Protective	\$5,000
WYW0271122	4900559398	BBC PINE TREE S WALKER CR	43-3	Protective	\$5,000
WYW0271122	4900526405	PTU		Apr-40 Protective	\$100,000
WYW0271122	4900526576	PTU		Apr-53 Protective	\$100,000
WYW0275186	4901920561	HDU		80 Protective	\$20,000
WYW0275186	4901920507	TMU FEDERAL	H-65	Protective	\$20,000
WYW0275186	4901920557	TMU FEDERAL	H-71	Protective	\$100,000
WYW0275186	4901920556	TMU	H-73-I	Protective	\$100,000
WYW0275186	4901920549	TMU FEDERAL	H-68-I	Protective	\$100,000
WYW0275187	4901920543	HDU	54P	Protective	\$20,000
WYW0275187	4901920540	HDU	55P	Protective	\$20,000
WYW0275187	4901920453	TMU	H-54-I	Protective	\$20,000
WYW0275187	4901929703	CRAZY CAT I TMFU	26-44SH-H	Protective	\$20,000
WYW0275187	4901920525	HDU		67 Protective	\$20,000
WYW0275187	4901920505	HDU FEDERAL	59A	Protective	\$20,000
WYW0275187	4901920517	HELDT DRAW		64 Protective	\$100,000
WYW0275187	4901920454	TMU	H-55	Protective	\$100,000
WYW0275187	4901924709	TABLE MTN TM CBM	22-32	Protective	\$12,000
WYW0275187	4901924710	TABLE MTN TM CBM	22-34	Protective	\$12,000
WYW0275187	4901924711	TABLE MTN TM CBM	22-41	Protective	\$12,000
WYW0275187	4901924712	TABLE MTN TM CBM	22-43	Protective	\$12,000
WYW0275187	4901924698	TABLE MTN TM CBM	23-12	Protective	\$12,000
WYW0275187	4901924699	TABLE MTN TM CBM	23-14	Protective	\$12,000
WYW0275187	4901924700	TABLE MTN TM CBM	23-21	Protective	\$12,000
WYW0275187	4901924701	TABLE MTN TM CBM	23-23	Protective	\$12,000
WYW0275187	4901924702	TABLE MTN TM CBM	23-32	Protective	\$12,000
WYW0275187	4901924703	TABLE MTN TM CBM	23-34	Protective	\$12,000
WYW0275187	4901927684	TABLE MTN TM CBM	23-42	Protective	\$12,000
WYW0275187	4901924705	TABLE MTN TM CBM	23-43	Protective	\$12,000
WYW0275187	4901924739	TABLE MTN TM CBM	26-21	Protective	\$12,000
WYW0275187	4901924740	TABLE MTN TM CBM	26-23	Protective	\$12,000
WYW0275187	4901924741	TABLE MTN TM CBM	26-32	Protective	\$12,000
WYW0275187	4901924742	TABLE MTN TM CBM	26-34	Protective	\$12,000
WYW0275187	4901924743	TABLE MTN TM CBM	26-41	Protective	\$12,000
WYW0275187	4901924744	TABLE MTN TM CBM	26-43	Protective	\$12,000
WYW0275187	4901924737	TABLE MTN TM CBM	4577 26-12	Protective	\$12,000
WYW0275187	4901924738	TABLE MTN TM CBM FED	4577 26-14	Protective	\$12,000
WYW0275187	4901927224	WILLOW CREEK NC FEDERAL	21-14	Protective	\$12,000
WYW0275187	4901927147	WILLOW CREEK NC FEDERAL	23-14	Protective	\$12,000
WYW0275187	4901929702	CRAZY CAT I TMFU	23-11H	Protective	\$125,000
WYW0275187	4901929897	CRAZY CAT I TMFU	26-44SH-RH	Protective	\$125,000
WYW0275187	4901920542	HDU	57P	Protective	\$100,000
WYW0275187	4901920530	HDU FEDERAL		66 Protective	\$100,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW0275187	4901929937	TABLE MOUNTAIN DEEP TMFU	15-44SH-H	Protective	\$125,000
WYW0275187	4901920999	TMU FEDERAL	14-26-I	Protective	\$100,000
WYW0275187	4901920475	TMU	H-57-I	Protective	\$100,000
WYW0275188	4901929932	TABLE MOUNTAIN DEEP TMFU	36-44SH-H	Protective	\$125,000
WYW0275188	4901920606	TMU	H-95	Protective	\$100,000
WYW0275188	4901924723	TABLE MTN TM CBM	24-14	Protective	\$12,000
WYW0275188	4901924725	TABLE MTN TM CBM	24-23	Protective	\$12,000
WYW0275188	4901924730	TABLE MTN TM CBM	25-12	Protective	\$12,000
WYW0275188	4901924731	TABLE MTN TM CBM	25-21	Protective	\$12,000
WYW0275188	4901924733	TABLE MTN TM CBM	25-32	Protective	\$12,000
WYW0275188	4901924734	TABLE MTN TM CBM	25-34	Protective	\$12,000
WYW0275188	4901924735	TABLE MTN TM CBM	25-41	Protective	\$12,000
WYW0275188	4901924736	TABLE MTN TM CBM	25-43	Protective	\$12,000
WYW0275188	4901929933	TABLE MOUNTAIN DEEP TMFU	24-13SH-H	Protective	\$125,000
WYW0275188	4901929930	TABLE MOUNTAIN DEEP TMFU	26-41SH-H	Protective	\$125,000
WYW0275199	4901920541	HDU FEDERAL	58P	Protective	\$20,000
WYW0275199	4901924749	TABLE MTN TM CBM	27-32	Protective	\$12,000
WYW0275199	4901929936	TABLE MOUNTAIN DEEP TMFU	27-44SH-H	Protective	\$125,000
WYW0275199	4901920476	TMU	H-56	Protective	\$100,000
WYW0275199	4901924745	TABLE MTN TM CBM	27-12	Protective	\$12,000
WYW0275199	4901924747	TABLE MTN TM CBM	27-21	Protective	\$12,000
WYW0275199	4901924750	TABLE MTN TM CBM	27-34	Protective	\$12,000
WYW0275199	4901924751	TABLE MTN TM CBM	27-41	Protective	\$12,000
WYW0275199	4901924752	TABLE MTN TM CBM	27-43	Protective	\$12,000
WYW0275199	4901920471	TMU FEDERAL	H-58	Protective	\$100,000
WYW0311396A	4901927793	TABLE MOUNTAIN 4 TM-CBM FED	Jan-41	Protective	\$12,000
WYW0311396A	4901927797	TABLE MOUNTAIN 4 TM-CBM FED	21-Jan	Protective	\$12,000
WYW0311396A	4901927791	TABLE MOUNTAIN 4 TM-CBM FED	21-Feb	Protective	\$12,000
WYW0311396A	4901927789	TABLE MOUNTAIN 4 TM-CBM FED	Feb-41	Protective	\$12,000
WYW0311396A	4901920372	TMU FEDERAL	TEX-1	Protective	\$100,000
WYW0314786	4900555152	HDU POD	2851	Protective	\$100,000
WYW0314786	4900555303	HD CBM 1 HARTZOG	12-34BG	Protective	\$12,000
WYW0314786	4900555572	HD CBM 2 HARTZOG	21-28BG	Protective	\$12,000
WYW0314786	4900555556	HD CBM 3 HARTZOG	23-7BG*	Protective	\$12,000
WYW0314786	4900527148	HDU	5217	Protective	\$100,000
WYW0314786	4900527571	HDU	5286	Protective	\$100,000
WYW0314786	4900527386	HDU	5335	Protective	\$100,000
WYW0314786	4900527424	HDU	5337	Protective	\$100,000
WYW0314786	4900524439	HDU	5073W	Protective	\$100,000
WYW0314786	4900524497	HDU	5201W	Protective	\$100,000
WYW0314786	4900524580	HDU	5213W	Protective	\$100,000
WYW0314786	4900524561	HDU	5281W	Protective	\$100,000
WYW0314786	4900524560	HDU	5282W	Protective	\$100,000
WYW0314786	4900524607	HDU	5343W	Protective	\$100,000
WYW0319344A	4901927204	WILLOW CREEK FEDERAL	32-7	Protective	\$12,000
WYW0319344A	4901927203	WILLOW CREEK FEDERAL	34-7	Protective	\$12,000
WYW0319344A	4901927202	WILLOW CREEK FEDERAL	41-7	Protective	\$12,000
WYW0319344A	4901927015	WILLOW CREEK FEDERAL	43-7	Protective	\$12,000
WYW0319344A	4901920979	CDU	H-88	Protective	\$100,000
WYW0319344A	4901920217	CDU	H19I	Protective	\$100,000
WYW0325487	4900555058	DOUBLE TANK	14-12B	Protective	\$5,000
WYW0325487	4900555059	DOUBLE TANK	23-12B	Protective	\$5,000
WYW0325487	4900555057	DOUBLE TANK	12-12B *	Protective	\$12,000
WYW0325487	4900555060	DOUBLE TANK	12-13B	Protective	\$12,000
WYW0325487	4900555061	DOUBLE TANK	21-13B	Protective	\$12,000
WYW0325487	4900556444	NWHCU	40-12	Protective	\$100,000
WYW0325487	4900556443	NWHCU	14-13H	Protective	\$125,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW0325487	4900552920	NWHCU DAVIS TRUST	24-12	Protective	\$100,000
WYW0325487	4900552919	NWHCU INNES	22-13	Protective	\$100,000
WYW0325487	4900557133	SLPU FED	12-13H	Protective	\$125,000
WYW0325487	4900557129	SLPU FED	14-12H	Protective	\$125,000
WYW0325487	4900557825	SLPU FED	43-13H	Protective	\$125,000
WYW0325487	4900524346	NWHCU		13-Nov Protective	\$100,000
WYW0325487	4900524434	NWHCU	13-12	Protective	\$100,000
WYW037416	4900520922	UTE MUDDY SAND		4-Mar Protective	\$20,000
WYW037416	4900520924	UTE MUDDY SAND		9-Mar Protective	\$20,000
WYW037416	4900520923	UTE MUDDY SAND		5-Mar Protective	\$100,000
WYW037416	4900520151	UTE MUDDY SAND		8-Mar Protective	\$100,000
WYW042305	4901929107	WDU DELTA WILLIAMS DU	23-18	Protective	\$5,000
WYW042305	4901929606	WDU DELTA WILLIAMS DU	23-18S	Protective	\$12,000
WYW042305	4901928886	AUGUSTA UNIT ZETA POWDER R	11-5WA	Protective	\$12,000
WYW042305	4901928893	AUGUSTA UNIT ZETA POWDER R	12-6WA	Protective	\$12,000
WYW042305	4901928888	AUGUSTA UNIT ZETA POWDER R	13-5WA	Protective	\$12,000
WYW042305	4901928896	AUGUSTA UNIT ZETA POWDER R	14-6WA	Protective	\$12,000
WYW042305	4901928889	AUGUSTA UNIT ZETA POWDER R	21-5WA	Protective	\$12,000
WYW042305	4901928894	AUGUSTA UNIT ZETA POWDER R	43-6WA	Protective	\$12,000
WYW042305	4901929063	WDU DELTA WILLIAMS DU		17-Nov Protective	\$12,000
WYW042305	4901929057	WDU DELTA WILLIAMS DU	11-7*	Protective	\$12,000
WYW042305	4901929062	WDU DELTA WILLIAMS DU	14-8	Protective	\$12,000
WYW042305	4901929106	WDU DELTA WILLIAMS DU	24-18	Protective	\$12,000
WYW042305	4901929066	WDU DELTA WILLIAMS DU	31-17	Protective	\$12,000
WYW042305	4901929141	WDU DELTA WILLIAMS DU	32-18	Protective	\$12,000
WYW042305	4901929068	WDU DELTA WILLIAMS DU	41-17	Protective	\$12,000
WYW042305	4901929125	WDU DELTA WILLIAMS DU	43-17	Protective	\$12,000
WYW042305	4901929061	WDU DELTA WILLIAMS DU	44-7	Protective	\$12,000
WYW042305	4901929071	WDU DELTA WILLIAMS DU	44-8	Protective	\$12,000
WYW042305	4901905645	WYOMING FEDERAL C	1-C	Protective	\$100,000
WYW061188	4900523146	USFS USA 40 PRE FELTON		1 Protective	\$100,000
WYW105256	4900531827	EDWARDS FEDERAL		13-Jan Protective	\$20,000
WYW105937	4900549289	PORCUPINE BUTTES DILTS	30-31UW	Protective	\$5,000
WYW105937	4900549290	PORCUPINE BUTTES DILTS	30-33UW	Protective	\$5,000
WYW105937	4900549293	PORCUPINE BUTTES LITTON	25-11UW	Protective	\$5,000
WYW105937	4900549294	PORCUPINE BUTTES LITTON	25-13UW	Protective	\$5,000
WYW105937	4900549295	PORCUPINE BUTTES LITTON	25-21UW	Protective	\$5,000
WYW105937	4900549297	PORCUPINE BUTTES LITTON	25-23UW	Protective	\$5,000
WYW105937	4900549835	PORCUPINE BUTTES LITTON	25-23UWX	Protective	\$5,000
WYW105937	4900531797	DILTS FEDERAL	14-30	Protective	\$5,000
WYW105937	4900561404	PROJECT 808 BOLT	8-2530H	Protective	\$125,000
WYW105937	4900560889	PROJECT 785 BOLT	01-3526H	Protective	\$125,000
WYW106828	4900554221	ROCHELLE HILLS BEARCAT CS	1*	Protective	\$5,000
WYW106828	4900555297	ROCHELLE HILLS BEARCAT CS		10 Protective	\$5,000
WYW106828	4900554215	ROCHELLE HILLS BEARCAT CS		11 Protective	\$5,000
WYW106828	4900554214	ROCHELLE HILLS BEARCAT CS		12 Protective	\$5,000
WYW106828	4900554220	ROCHELLE HILLS BEARCAT CS		2 Protective	\$5,000
WYW106828	4900554219	ROCHELLE HILLS BEARCAT CS		3 Protective	\$5,000
WYW106828	4900554218	ROCHELLE HILLS BEARCAT CS		4 Protective	\$5,000
WYW106828	4900554217	ROCHELLE HILLS BEARCAT CS		5 Protective	\$5,000
WYW106828	4900554285	ROCHELLE HILLS BEARCAT CS		6 Protective	\$5,000
WYW106828	4900554216	ROCHELLE HILLS BEARCAT CS		7 Protective	\$5,000
WYW106828	4900554286	ROCHELLE HILLS BEARCAT CS		8 Protective	\$5,000
WYW106828	4900554287	ROCHELLE HILLS BEARCAT CS		9 Protective	\$5,000
WYW106828	4900532219	SAPELA FEDERAL		1 Protective	\$5,000
WYW106828	4900561579	PROJECT 785 ADD CROSSBOW	15-07H	Protective	\$125,000
WYW106828	4900561582	PROJECT 785 ADD CROSSBOW	18-07H	Protective	\$125,000

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WYW106828	4900560884	PROJECT 785 CROSSBOW	07-06H	Protective	\$125,000
WYW107248	4900549755	HOUSE CREEK H D COSNER	8W-12	Protective	\$5,000
WYW107248	4900548883	HOUSE CREEK H D COSNER	8W-14	Protective	\$5,000
WYW107248	4900562201	COSNER-WRIGHT-FULLER 3 WRIGHT	05-084372-1XPH*	Protective	\$125,000
WYW107248	4900562413	COSNER-WRIGHT-FULLER 3 WRIGHT	05-084372-2XPH	Protective	\$125,000
WYW107248	4900562199	COSNER-WRIGHT-FULLER 3 WRIGHT	05-084372-2XTH	Protective	\$125,000
WYW107258	4900550464	N WRIGHT ADDITION CARLTON	34-19	Protective	\$5,000
WYW107258	4900547536	N WRIGHT FULLER	21-18	Protective	\$5,000
WYW107258	4900547535	N WRIGHT FULLER	23-18	Protective	\$5,000
WYW107258	4900547527	N WRIGHT FULLER	32-19	Protective	\$5,000
WYW107258	4900547524	N GOLF FULLER RANCH FED	21-20	Protective	\$5,000
WYW107258	4900547520	N GOLF FULLER RANCH FED	41-20	Protective	\$5,000
WYW107259	4900547514	N WRIGHT DURHAM RANCH	41-28	Protective	\$5,000
WYW107259	4900547519	N GOLF FULLER RANCH FED	21-Dec	Protective	\$5,000
WYW107259	4900547518	N GOLF FULLER RANCH FED	14-21	Protective	\$5,000
WYW112137	4900549313	PORCUPINE BUTTES DILTS	18-31UW	Protective	\$5,000
WYW112137	4900549314	PORCUPINE BUTTES DILTS	18-33UW	Protective	\$5,000
WYW112137	4900549285	USFS PORCUPINE TUIT S	24-11UW	Protective	\$5,000
WYW112137	4900549288	USFS PORCUPINE TUIT S	24-43UW	Protective	\$5,000
WYW115404	4900556043	SAVAGETON 4 SAVAGETON	34-17BG	Protective	\$12,000
WYW115684	4900545701	HOE CREEK MCBETH	12/23/4674	Protective	\$5,000
WYW115684	4900545698	HOE CREEK MCBETH	41-23-4674	Protective	\$5,000
WYW115684	4900549696	S PLEASANTVILLE I RUBY	34-15BG	Protective	\$5,000
WYW119182	4900530783	FEDERAL	719-24	Protective	\$5,000
WYW119182	4900530888	FEDERAL	719-34	Protective	\$5,000
WYW119182	4900530887	FEDERAL	719-42	Protective	\$5,000
WYW119182	4900530886	FEDERAL	719-44	Protective	\$5,000
WYW120439	4900554699	ROCKY BUTTE CS	11	Protective	\$12,000
WYW120439	4900553798	ROCKY BUTTE CS	15	Protective	\$12,000
WYW120439	4900531625	ROCKY BUTTE FEDERAL COM	6	Protective	\$100,000
WYW120439	4900562030	LITTLE BUFFALO 2 RANCH FED	314473-3TH	Protective	\$125,000
WYW120439	4900562136	ROCKY BUTTE FED COM	29H	Protective	\$125,000
WYW120439	4900562271	ROCKY BUTTE FED COM	30H	Protective	\$125,000
WYW120439	4900562377	ROCKY BUTTE FEDERAL COM	31TH	Protective	\$125,000
WYW123372	4900544808	BELLE FOURCHE FLOCCHINI DURHAM	32-35-4672	Protective	\$5,000
WYW124459	4900553298	HOUSE CREEK K D COSNER	23W-11	Protective	\$5,000
WYW124459	4900555076	TUIT DRAW ADD. TUIT DRAW	43-33	Protective	\$5,000
WYW124459	4900551555	TUIT DRAW CBM	Dec-35	Protective	\$5,000
WYW124459	4900551559	TUIT DRAW CBM	41-33	Protective	\$5,000
WYW124459	4900551667	TUIT FEDERAL	23-26	Protective	\$5,000
WYW124459	4900530597	FEDERAL	Dec-35	Protective	\$100,000
WYW124459	4900563082	LEAVITT UNDERWOOD LEAVITT TRST	334372-1PH*	Protective	\$125,000
WYW124459	4900563084	LEAVITT UNDERWOOD LEAVITT TRST	334372-2PH	Protective	\$125,000
WYW124459	4900562947	LEAVITT UNDERWOOD T COSNER	29-324372-1XPH	Protective	\$125,000
WYW124459	4900562939	LEAVITT UNDERWOOD T COSNER	29-324372-2XPH	Protective	\$125,000
WYW124459	4900562940	LEAVITT UNDERWOOD T COSNER	29-324372-3XPH	Protective	\$125,000
WYW124459	4900562941	LEAVITT UNDERWOOD T COSNER	29-324372-4XPH	Protective	\$125,000
WYW124459	4900562780	BEHEMOTH FED	2PH	Protective	\$125,000
WYW124459	4900561987	BOLT ADD 1 BOLT	222-0630H	Protective	\$125,000
WYW124871	4901924732	TABLE MTN TM CBM	25-23	Protective	\$12,000
WYW126409	4901923344	EAST BULLWHACKER DRY FORK	32-2	Protective	\$12,000
WYW126409	4901923359	EAST BULLWHACKER DRY FORK	34-2	Protective	\$12,000
WYW126409	4901923348	EAST BULLWHACKER DRY FORK	41-2	Protective	\$12,000
WYW126409	4901923343	EAST BULLWHACKER DRY FORK	43-2	Protective	\$12,000
WYW127129	4901922970	WHISKEY DRAW UNIT WDU	43-4	Protective	\$12,000
WYW127129	4901922980	WHISKEY DRAW UNIT WDU FED	9-Dec	Protective	\$12,000
WYW127129	4901923551	WHISKEY DRAW UNIT WDU FED	14-3	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW127129	4901922982	WHISKEY DRAW UNIT WDU FED	21-9	Protective	\$12,000
WYW127129	4901922968	WHISKEY DRAW UNIT WDU FED	23-4	Protective	\$12,000
WYW127129	4901923578	WHISKEY DRAW UNIT WDU FED	44-33	Protective	\$12,000
WYW127131	4901925592	IOTA ZETA BIG MIKE UNIT	14-21	Protective	\$5,000
WYW127131	4901925587	IOTA ZETA BIG MIKE UNIT	14-43	Protective	\$5,000
WYW127131	4901927035	LAMBDA RHO BIG MIKE UNIT		12-Feb Protective	\$12,000
WYW127131	4901925602	IOTA ZETA BIG MIKE UNIT	14-12	Protective	\$12,000
WYW127131	4901925597	IOTA ZETA BIG MIKE UNIT	14-14	Protective	\$12,000
WYW127131	4901925591	IOTA ZETA BIG MIKE UNIT	14-23	Protective	\$12,000
WYW127131	4901925590	IOTA ZETA BIG MIKE UNIT	14-32	Protective	\$12,000
WYW127131	4901925589	IOTA ZETA BIG MIKE UNIT	14-34	Protective	\$12,000
WYW127131	4901925588	IOTA ZETA BIG MIKE UNIT	14-41	Protective	\$12,000
WYW127131	4901926920	LAMBDA RHO BIG MIKE UNIT		14-Feb Protective	\$12,000
WYW127131	4901927034	LAMBDA RHO BIG MIKE UNIT		21-Feb Protective	\$12,000
WYW127131	4901927033	LAMBDA RHO BIG MIKE UNIT		23-Feb Protective	\$12,000
WYW127131	4901927032	LAMBDA RHO BIG MIKE UNIT		Feb-31 Protective	\$12,000
WYW127131	4901926921	LAMBDA RHO BIG MIKE UNIT		Feb-34 Protective	\$12,000
WYW127131	4901926922	LAMBDA RHO BIG MIKE UNIT		Feb-41 Protective	\$12,000
WYW127131	4901926923	LAMBDA RHO BIG MIKE UNIT		Feb-43 Protective	\$12,000
WYW127420	4901923351	BULLWHACKER III DRY FORK	23-13	Protective	\$12,000
WYW127420	4901923352	BULLWHACKER III DRY FORK	14-13	Protective	\$12,000
WYW127423	4901926586	NEMESIS MOTION CS FEDERAL		1 Protective	\$12,000
WYW127423	4901923209	TEAR DROP		5-Dec Protective	\$12,000
WYW127423	4901923211	TEAR DROP	14-5	Protective	\$12,000
WYW127423	4901923212	TEAR DROP	21-5	Protective	\$12,000
WYW127423	4901923213	TEAR DROP	23-5	Protective	\$12,000
WYW127423	4901928509	TEAR DROP	31-5	Protective	\$12,000
WYW127423	4901923215	TEAR DROP	34-5	Protective	\$12,000
WYW127423	4901923210	TEAR DROP	41-5	Protective	\$12,000
WYW127423	4901928496	TEAR DROP	43-5	Protective	\$12,000
WYW127423	4901928445	TEAR DROP FEDERAL	12-4*	Protective	\$12,000
WYW127423	4901928490	TEAR DROP FEDERAL	13-4	Protective	\$12,000
WYW127423	4901928491	TEAR DROP FEDERAL	21-4	Protective	\$12,000
WYW127423	4901928447	TEAR DROP FEDERAL	23-4	Protective	\$12,000
WYW127423	4901928448	TEAR DROP FEDERAL	34-4	Protective	\$12,000
WYW127423	4901928450	TEAR DROP FEDERAL	41-4	Protective	\$12,000
WYW127423	4901928495	TEAR DROP FEDERAL	43-4	Protective	\$12,000
WYW127423	4901926585	NEMESIS MOTION CS FEDERAL		2 Protective	\$12,000
WYW127423	4901926584	NEMESIS MOTION CS FEDERAL		4 Protective	\$12,000
WYW128085	4900552768	SAVAGETON I RASSBACH	23-20	Protective	\$12,000
WYW128096	4900558301	CARR DRAW II ADD II M MAYCOCK	14-26GW	Protective	\$12,000
WYW128096	4900554926	CARR DRAW II M MAYCOCK	41-34GW	Protective	\$12,000
WYW128099	4900557426	WORMWOOD UNIT 1 WU		9-Dec Protective	\$12,000
WYW128099	4900557443	WORMWOOD UNIT 1 WU	14-9	Protective	\$12,000
WYW128099	4900557414	WORMWOOD UNIT 1 WU	23-9	Protective	\$12,000
WYW128099	4900557427	WORMWOOD UNIT 1 WU	32-9	Protective	\$12,000
WYW128100	4901926541	KINGWOOD 1 IBERLIN RANCH	21-17	Protective	\$12,000
WYW128103	4900550033	SRU 2		23-Dec Protective	\$12,000
WYW128103	4900550031	SRU 2	21-23	Protective	\$12,000
WYW128209	4900552770	SAVAGETON I SAVAGETON		23-Dec Protective	\$5,000
WYW128455	4901927177	WILLOW CREEK ADD III FEDERAL	34-11-4577	Protective	\$12,000
WYW128455	4901927230	WILLOW CREEK ADD III FEDERAL	41-14-4577	Protective	\$12,000
WYW128455	4901924722	TABLE MTN TM CBM	24-12	Protective	\$12,000
WYW128455	4901924724	TABLE MTN TM CBM	24-21	Protective	\$12,000
WYW128455	4901927229	WILLOW CREEK ADD III FEDERAL	43-11-4577	Protective	\$12,000
WYW128455	4901927146	WILLOW CREEK NC FEDERAL	32-14	Protective	\$12,000
WYW128455	4901927144	WILLOW CREEK NC FEDERAL	43-14	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW128456	4901927820	TABLE MOUNTAIN 4 TM-CBM FED		23-Aug Protective	\$12,000
WYW128456	4901924727	TABLE MTN TM CBM	24-34	Protective	\$12,000
WYW128457	4901924748	TABLE MTN TM CBM	27-23	Protective	\$12,000
WYW128457	4901924746	TABLE MTN TM CBM	27-14	Protective	\$12,000
WYW128457	4901927165	WILLOW CREEK NC	32-13	Protective	\$12,000
WYW128457	4901927164	WILLOW CREEK NC	34-13	Protective	\$12,000
WYW128457	4901927173	WILLOW CREEK NC	43-13	Protective	\$12,000
WYW128617	4900561425	N BUTTE OBLIG 1 J CHRISTENSEN	23-4	Protective	\$12,000
WYW128628	4901925066	BULLWHACKER II BCU	34-6	Protective	\$5,000
WYW128628	4901930669	MOJAVE 1 SCOOTER FED	4277-10-3-3 FH	Protective	\$125,000
WYW128628	4901925088	BULLWHACKER II BCU	21-3	Protective	\$12,000
WYW128628	4901925087	BULLWHACKER II BCU	23-3	Protective	\$12,000
WYW128628	4901925061	BULLWHACKER II BCU	34-5	Protective	\$12,000
WYW128628	4901925095	BULLWHACKER II BCU	41-3	Protective	\$12,000
WYW128628	4901925071	BULLWHACKER II BCU	41-7	Protective	\$12,000
WYW128629	4901925078	BULLWHACKER II MOORE TRUST	41-26	Protective	\$12,000
WYW128629	4901925075	BULLWHACKER II MOORE TRUST	21-26	Protective	\$12,000
WYW128995	4900554213	ROCHELLE HILLS BLENHEIM CS		1 Protective	\$12,000
WYW128995	4900554212	ROCHELLE HILLS BLENHEIM CS		2 Protective	\$12,000
WYW128995	4900554211	ROCHELLE HILLS BLENHEIM CS		3 Protective	\$12,000
WYW129009	4900547007	BAR 76 ADDITION DURHAM RANCH	43-21	Protective	\$5,000
WYW129020	4900552617	ROOSTER CHANTICLEER CS	1*	Protective	\$12,000
WYW129047	4901925753	RIVER UNIT BETA RU FED	23-24BG	Protective	\$5,000
WYW129047	4901925755	RIVER UNIT BETA RU FED	12-24BG	Protective	\$12,000
WYW129047	4901925836	RIVER UNIT BETA RU FED	12-25BG	Protective	\$12,000
WYW129047	4901925842	RIVER UNIT BETA RU FED	21-25BG	Protective	\$12,000
WYW129047	4901925840	RIVER UNIT BETA RU FED	23-25BG	Protective	\$12,000
WYW129047	4901926209	RIVER UNIT BETA RU FED	34-23BG	Protective	\$12,000
WYW129047	4901925754	RIVER UNIT BETA RU	21-24BG	Protective	\$12,000
WYW129047	4901926065	RIVER UNIT BETA RU	31-24BG	Protective	\$12,000
WYW129047	4901926208	RIVER UNIT BETA RU FED	14-24BG	Protective	\$12,000
WYW129047	4901926064	RIVER UNIT BETA RU FED	14-25BG	Protective	\$12,000
WYW129047	4901925752	RIVER UNIT BETA RU FED	32-24BG	Protective	\$12,000
WYW129047	4901925835	RIVER UNIT BETA RU FED	32-25BG	Protective	\$12,000
WYW129047	4901926062	RIVER UNIT BETA RU FED	41-25BG	Protective	\$12,000
WYW129047	4901925664	RIVER UNIT BETA RU FED	43-23BG	Protective	\$12,000
WYW129048	4901928105	RIVER UNIT GAMMA RU	31-29	Protective	\$12,000
WYW129048	4901924484	RIVER UNIT ALPHA RU	14-28BG	Protective	\$12,000
WYW129048	4901924504	RIVER UNIT ALPHA RU	23-28BG	Protective	\$12,000
WYW129048	4901924490	RIVER UNIT ALPHA RU	34-28BG	Protective	\$12,000
WYW129048	4901924495	RIVER UNIT ALPHA RU	43-28BG	Protective	\$12,000
WYW129048	4901928109	RIVER UNIT GAMMA RU		29-Dec Protective	\$12,000
WYW129048	4901928108	RIVER UNIT GAMMA RU	21-29	Protective	\$12,000
WYW129048	4901928107	RIVER UNIT GAMMA RU	23-29	Protective	\$12,000
WYW129048	4901928106	RIVER UNIT GAMMA RU	24-29	Protective	\$12,000
WYW129048	4901928104	RIVER UNIT GAMMA RU	43-29	Protective	\$12,000
WYW129051	4901927682	JUNIPER DRAW KESTREL JDFU	21M-2398	Protective	\$5,000
WYW129051	4901927679	JUNIPER DRAW KESTREL JDFU	23M-2398	Protective	\$5,000
WYW129051	4901927681	JUNIPER DRAW KESTREL JDFU	43M-2298	Protective	\$5,000
WYW129051	4901926117	JUNIPER DRAW MERLIN JDFU	21M-2298	Protective	\$5,000
WYW129051	4901926096	JUNIPER DRAW MERLIN JDFU	42M-2298	Protective	\$5,000
WYW129051	4901921898	JUNIPER DRAW CBM JDFU	41G-2298	Protective	\$12,000
WYW129051	4901927683	JUNIPER DRAW KESTREL JDFU	12M-2398	Protective	\$12,000
WYW129051	4901921900	JUNIPER DRAW CBM JDFU	11G-2398	Protective	\$12,000
WYW129051	4901921897	JUNIPER DRAW CBM JDFU	31G-2298	Protective	\$12,000
WYW129051	4901921899	JUNIPER DRAW CBM JDFU	42G-2298	Protective	\$12,000
WYW129051	4901923117	JUNIPER DRAW KESTREL JDFU	12G-2398	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW129051	4901927673	JUNIPER DRAW KESTREL JDFU	14G-2398	Protective	\$12,000
WYW129051	4901927674	JUNIPER DRAW KESTREL JDFU	14M-2398	Protective	\$12,000
WYW129051	4901923120	JUNIPER DRAW KESTREL JDFU	21G-2398	Protective	\$12,000
WYW129051	4901923121	JUNIPER DRAW KESTREL JDFU	23G-2398	Protective	\$12,000
WYW129051	4901923113	JUNIPER DRAW KESTREL JDFU	32G-2398	Protective	\$12,000
WYW129051	4901923501	JUNIPER DRAW KESTREL JDFU	33G-2398	Protective	\$12,000
WYW129051	4901923116	JUNIPER DRAW KESTREL JDFU	34G-2298	Protective	\$12,000
WYW129051	4901927678	JUNIPER DRAW KESTREL JDFU	34M-2298	Protective	\$12,000
WYW129051	4901923112	JUNIPER DRAW KESTREL JDFU	41M-2398	Protective	\$12,000
WYW129051	4901923118	JUNIPER DRAW KESTREL JDFU	43G-2298	Protective	\$12,000
WYW129051	4901927672	JUNIPER DRAW KESTREL JDFU	43M-2398	Protective	\$12,000
WYW129051	4901926095	JUNIPER DRAW MERLIN JDFU	11M-2398	Protective	\$12,000
WYW129051	4901923056	JUNIPER DRAW UNIT JDFU	21G-2298	Protective	\$12,000
WYW129051	4901929710	WARDNER RANCH FED	44-22-4978SH	Protective	\$125,000
WYW129051	4901929711	WARDNER RANCH FED	24-23-4978SH	Protective	\$125,000
WYW129506	4900548947	SIOUX RANCH	41-3	Protective	\$5,000
WYW129506	4900554245	UPRISING BOLT CS		2 Protective	\$5,000
WYW129506	4900554244	UPRISING BOLT CS		3 Protective	\$5,000
WYW129506	4900554243	UPRISING BOLT CS		4 Protective	\$5,000
WYW129506	4900561329	PROJECT 808 ARBALEST	32-01H	Protective	\$125,000
WYW129506	4900554246	UPRISING BOLT WATER SOURCE	1*	Protective	\$25,000
WYW129520	4900544793	FULLER BELLE FOURCHE BROWN	23-25	Protective	\$5,000
WYW129520	4900554770	ALBATROSS CS COM		1 Protective	\$12,000
WYW129520	4900544810	ALBATROSS CS COM		2 Protective	\$12,000
WYW129550	4901925018	BULLWHACKER II MOORE TRUST		27-Dec Protective	\$12,000
WYW129551	4901925100	BULLWHACKER II BCU	14-31	Protective	\$5,000
WYW129551	4901930910	COLE FEDERAL	30-43-77-7H	Protective	\$125,000
WYW129551	4901925102	BULLWHACKER II BCU	23-31	Protective	\$12,000
WYW129551	4901925103	BULLWHACKER II BCU	43-31	Protective	\$12,000
WYW129551	4901925101	BULLWHACKER II BCU	21-31	Protective	\$12,000
WYW129551	4901926291	BULLWHACKER III BCU	23-30	Protective	\$12,000
WYW129552	4901928543	BLADE AILERON CS		1 Protective	\$12,000
WYW129552	4901928544	BLADE AILERON CS		2 Protective	\$12,000
WYW129553	4901926770	KINGSBURY III KU		8-Dec Protective	\$12,000
WYW129553	4901926780	KINGSBURY III KU	21-8	Protective	\$12,000
WYW129553	4901926764	KINGSBURY III KU	32-5	Protective	\$12,000
WYW129985	4900560636	VERANDA 1 SPOOKY CS		1 Protective	\$12,000
WYW130033	4900554233	ROCHELLE HILLS GLOSTER CS		1 Protective	\$12,000
WYW130033	4900554232	ROCHELLE HILLS GLOSTER CS		2 Protective	\$12,000
WYW130033	4900554231	ROCHELLE HILLS GLOSTER CS		3 Protective	\$12,000
WYW130033	4900554230	ROCHELLE HILLS GLOSTER CS		4 Protective	\$12,000
WYW130033	4900554229	ROCHELLE HILLS GLOSTER CS		5 Protective	\$12,000
WYW130033	4900554228	ROCHELLE HILLS GLOSTER CS		6 Protective	\$12,000
WYW130033	4900554227	ROCHELLE HILLS GLOSTER CS		7 Protective	\$12,000
WYW130033	4900554226	ROCHELLE HILLS GLOSTER CS		8 Protective	\$12,000
WYW130047	4900554263	UPRISING MESSERSCHMITT CS		1 Protective	\$5,000
WYW130047	4900554264	UPRISING MESSERSCHMITT CS		2 Protective	\$5,000
WYW130047	4900554265	UPRISING MESSERSCHMITT CS		3 Protective	\$5,000
WYW130047	4900554288	UPRISING MESSERSCHMITT CS		4 Protective	\$5,000
WYW130047	4900554266	UPRISING MESSERSCHMITT CS		5 Protective	\$5,000
WYW130047	4900554267	UPRISING MESSERSCHMITT CS		6 Protective	\$5,000
WYW130047	4900560886	PROJECT 785 ARBALEST	09-23H	Protective	\$125,000
WYW130048	4900928053	UPRISING DOOLITTLE CS		1 Protective	\$5,000
WYW130048	4900928052	UPRISING DOOLITTLE CS		2 Protective	\$5,000
WYW130097	4900562264	N TREE II A TCR PHOENIX FED	44-17/20 4376BH	Protective	\$20,000
WYW130097	4900559806	BLADE CUISINE CS		2 Protective	\$12,000
WYW130097	4900557549	BLADE CUISINE CS		3 Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW130097	4900559807	BLADE CUISINE CS COM		1 Protective	\$12,000
WYW130098	4900560575	DRY WILLOW 5 CHRISTENSEN	27-12	Protective	\$12,000
WYW130098	4900560528	DRY WILLOW 5 CHRISTENSEN	27-21	Protective	\$12,000
WYW130098	4900560529	DRY WILLOW 5 CHRISTENSEN	27-32	Protective	\$12,000
WYW130100	4900560696	VERANDA 2 CS		6 Protective	\$12,000
WYW130106	4901929603	STORM MONSOON CS COM		4 Protective	\$12,000
WYW130108	4901928988	SIROCCO WHISK		4 Protective	\$12,000
WYW130110	4901926908	LAMBDA RHO BIG MIKE UNIT		21-Jun Protective	\$12,000
WYW130110	4901926909	LAMBDA RHO BIG MIKE UNIT		Jun-32 Protective	\$12,000
WYW130110	4901926911	LAMBDA RHO BIG MIKE UNIT		Jun-41 Protective	\$12,000
WYW130117	4901925612	IOTA ZETA BIG MIKE UNIT	13-14	Protective	\$5,000
WYW130117	4901925608	IOTA ZETA BIG MIKE UNIT	13-34	Protective	\$5,000
WYW130117	4901925613	IOTA ZETA BIG MIKE UNIT	13-12	Protective	\$12,000
WYW130117	4901925611	IOTA ZETA BIG MIKE UNIT	13-21	Protective	\$12,000
WYW130117	4901925610	IOTA ZETA BIG MIKE UNIT	13-23	Protective	\$12,000
WYW130117	4901925609	IOTA ZETA BIG MIKE UNIT	13-32	Protective	\$12,000
WYW130117	4901925607	IOTA ZETA BIG MIKE UNIT	13-41	Protective	\$12,000
WYW130117	4901925605	IOTA ZETA BIG MIKE UNIT	13-43	Protective	\$12,000
WYW130118	4901927635	AERIAL LOFTY CS FEDERAL		1 Protective	\$12,000
WYW130118	4901927284	AERIAL LOFTY CS FEDERAL		2 Protective	\$12,000
WYW130118	4901927636	AERIAL LOFTY CS FEDERAL		3 Protective	\$12,000
WYW130118	4901927292	AERIAL LOFTY CS FEDERAL		4 Protective	\$12,000
WYW130118	4901927630	AERIAL LOFTY CS FEDERAL		5 Protective	\$12,000
WYW130118	4901927513	AERIAL LOFTY CS FEDERAL		6 Protective	\$12,000
WYW130118	4901927293	AERIAL LOFTY CS FEDERAL		7 Protective	\$12,000
WYW130290	4900536099	SRU	41-21-4876	Protective	\$5,000
WYW130290	4900538681	SRU	32-21-4876	Protective	\$12,000
WYW130290	4900550023	SRU 2	32-27	Protective	\$12,000
WYW130290	4900550021	SRU 2	41-27	Protective	\$12,000
WYW130297	4901923232	COULTER 4 RAWHIDE	14-31	Protective	\$12,000
WYW130297	4901928216	EDISTO CS		7 Protective	\$12,000
WYW130297	4901928219	EDISTO CS COM		9 Protective	\$12,000
WYW130297	4901928220	EDISTO CS FEDERAL		6 Protective	\$12,000
WYW130297	4901928233	EDISTO CS FEDERAL COM		4 Protective	\$12,000
WYW130297	4901928231	EDISTO CS FEDERAL COM		5 Protective	\$12,000
WYW130297	4901926567	NEMESIS EDISTO CS		1 Protective	\$12,000
WYW130297	4901926565	NEMESIS EDISTO CS		3 Protective	\$12,000
WYW130297	4901926566	NEMESIS EDISTO CS COM		2 Protective	\$12,000
WYW130297	4901928221	EDISTO CS COM		8 Protective	\$12,000
WYW130633	4901927299	SIGMA TAU BIG GEORGE UNIT	5-12*	Protective	\$5,000
WYW130633	4901923703	BGU EPSILON	34-32	Protective	\$5,000
WYW130633	4901923706	BGU EPSILON	34-43	Protective	\$5,000
WYW130633	4901923685	BGU DELTA	32-12	Protective	\$12,000
WYW130633	4901923674	BGU DELTA	32-21	Protective	\$12,000
WYW130633	4901923681	BGU DELTA	33-12	Protective	\$12,000
WYW130633	4901923667	BGU DELTA	33-14	Protective	\$12,000
WYW130633	4901923668	BGU DELTA	33-21	Protective	\$12,000
WYW130633	4901923669	BGU DELTA	33-23	Protective	\$12,000
WYW130633	4901923670	BGU DELTA	33-32	Protective	\$12,000
WYW130633	4901923671	BGU DELTA	33-34	Protective	\$12,000
WYW130633	4901923672	BGU DELTA	33-41	Protective	\$12,000
WYW130633	4901923673	BGU DELTA	33-43	Protective	\$12,000
WYW130633	4901923699	BGU EPSILON	34-12	Protective	\$12,000
WYW130633	4901923700	BGU EPSILON	34-14	Protective	\$12,000
WYW130633	4901923702	BGU EPSILON	34-23	Protective	\$12,000
WYW130633	4901923704	BGU EPSILON	34-34	Protective	\$12,000
WYW130633	4901923705	BGU EPSILON	34-41	Protective	\$12,000

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW130633	4901928038	SIGMA TAU BIG GEORGE UNIT	5-12R	Protective	\$12,000
WYW130633	4901927311	SIGMA TAU BIG GEORGE UNIT		21-May Protective	\$12,000
WYW130633	4901927314	SIGMA TAU BIG GEORGE UNIT		23-May Protective	\$12,000
WYW130633	4901927307	SIGMA TAU BIG GEORGE UNIT		24-May Protective	\$12,000
WYW130633	4901927316	SIGMA TAU BIG GEORGE UNIT		May-32 Protective	\$12,000
WYW130633	4901927319	SIGMA TAU BIG GEORGE UNIT		May-34 Protective	\$12,000
WYW130633	4901927300	SIGMA TAU BIG GEORGE UNIT		May-41 Protective	\$12,000
WYW130633	4901927301	SIGMA TAU BIG GEORGE UNIT		May-43 Protective	\$12,000
WYW130634	4901921211	BGU ALPHA BOARDMAN	13-9	Protective	\$5,000
WYW130634	4901921210	BGU ALPHA BOARDMAN	14-9	Protective	\$5,000
WYW130634	4901921207	BGU ALPHA FEDERAL	33-9	Protective	\$5,000
WYW130634	4901921206	BGU ALPHA FEDERAL	34-9	Protective	\$5,000
WYW130634	4901921205	BGU ALPHA FEDERAL	43-9	Protective	\$5,000
WYW130634	4901930656	BIG RIVER	4877 9-1FH	Protective	\$125,000
WYW130634	4901922819	BGU GAMMA		12-Apr Protective	\$12,000
WYW130634	4901921209	BGU ALPHA BOARDMAN	23-9	Protective	\$12,000
WYW130634	4901921208	BGU ALPHA BOARDMAN	24-9	Protective	\$12,000
WYW130634	4901922822	BGU GAMMA		Apr-32 Protective	\$12,000
WYW130634	4901922823	BGU GAMMA		Apr-34 Protective	\$12,000
WYW130634	4901922824	BGU GAMMA		Apr-43 Protective	\$12,000
WYW130634	4901922825	BGU GAMMA		12-Sep Protective	\$12,000
WYW130634	4901922826	BGU GAMMA		21-Sep Protective	\$12,000
WYW130634	4901922827	BGU GAMMA		Sep-32 Protective	\$12,000
WYW130634	4901922828	BGU GAMMA		Sep-41 Protective	\$12,000
WYW130636	4901921215	BGU ALPHA FEDERAL		15-Dec Protective	\$5,000
WYW130636	4901921214	BGU ALPHA FEDERAL	22-15	Protective	\$5,000
WYW130636	4901921213	BGU ALPHA FEDERAL	31-15	Protective	\$5,000
WYW130636	4901921212	BGU ALPHA FEDERAL	41-15	Protective	\$5,000
WYW130636	4901921225	BGU BETA FEDERAL	13-15	Protective	\$5,000
WYW130636	4901921227	BGU BETA FEDERAL	23-15	Protective	\$5,000
WYW130636	4901921228	BGU BETA FEDERAL	24-15	Protective	\$5,000
WYW130636	4901921230	BGU BETA FEDERAL	33-15	Protective	\$5,000
WYW130636	4901921231	BGU BETA FEDERAL	34-15	Protective	\$5,000
WYW130636	4901921235	BGU BETA FEDERAL	34-17	Protective	\$5,000
WYW130636	4901921232	BGU BETA FEDERAL	42-15	Protective	\$5,000
WYW130636	4901921233	BGU BETA FEDERAL	44-15	Protective	\$5,000
WYW130636	4901921237	BGU BETA FEDERAL	44-17	Protective	\$5,000
WYW130636	4901921217	BGU ALPHA FEDERAL		15-Nov Protective	\$12,000
WYW130636	4901921216	BGU ALPHA FEDERAL	21-15	Protective	\$12,000
WYW130636	4901921226	BGU BETA FEDERAL	14-15	Protective	\$12,000
WYW130636	4901921229	BGU BETA FEDERAL	32-15	Protective	\$12,000
WYW130636	4901921234	BGU BETA FEDERAL	33-17	Protective	\$12,000
WYW130636	4901921236	BGU BETA FEDERAL	43-17	Protective	\$12,000
WYW130637	4901923093	BGU BETA 2 ADDITION	21-43	Protective	\$5,000
WYW130637	4901921251	BGU BETA FEDERAL	13-22	Protective	\$5,000
WYW130637	4901921253	BGU BETA FEDERAL	21-22	Protective	\$5,000
WYW130637	4901921244	BGU BETA FEDERAL	22-21	Protective	\$5,000
WYW130637	4901921254	BGU BETA FEDERAL	22-22	Protective	\$5,000
WYW130637	4901921255	BGU BETA FEDERAL	23-22	Protective	\$5,000
WYW130637	4901921245	BGU BETA FEDERAL	31-21	Protective	\$5,000
WYW130637	4901921246	BGU BETA FEDERAL	32-21	Protective	\$5,000
WYW130637	4901921247	BGU BETA FEDERAL	41-21	Protective	\$5,000
WYW130637	4901921248	BGU BETA FEDERAL	42-21	Protective	\$5,000
WYW130637	4901921238	BGU BETA HARRIET	31-20	Protective	\$5,000
WYW130637	4901921239	BGU BETA HARRIET	41-20	Protective	\$5,000
WYW130637	4901921240	BGU BETA HARRIET	42-20	Protective	\$5,000
WYW130637	4901923092	BGU BETA 2 ADDITION	21-34*	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW130637	4901921250	BGU BETA FEDERAL		22-Dec	Protective \$12,000
WYW130637	4901921252	BGU BETA HARRIET	14-22		Protective \$12,000
WYW130637	4901921242	BGU BETA		21-Dec	Protective \$12,000
WYW130637	4901923094	BGU BETA 2 ADD	21-23		Protective \$12,000
WYW130637	4901921243	BGU BETA FEDERAL		21-Nov	Protective \$12,000
WYW130637	4901921249	BGU BETA FEDERAL		22-Nov	Protective \$12,000
WYW130637	4901921256	BGU BETA HARRIET	24-22		Protective \$12,000
WYW130637	4901921241	BGU BETA HARRIET FEDERAL	21-21		Protective \$12,000
WYW130638	4901923654	BGU DELTA	28-12*		Protective \$5,000
WYW130638	4901923655	BGU DELTA	28-14		Protective \$5,000
WYW130638	4901923658	BGU DELTA	28-32		Protective \$5,000
WYW130638	4901923659	BGU DELTA	28-34		Protective \$5,000
WYW130638	4901923660	BGU DELTA	28-41		Protective \$5,000
WYW130638	4901923661	BGU DELTA	28-43		Protective \$5,000
WYW130638	4901923663	BGU DELTA	29-14		Protective \$5,000
WYW130638	4901923665	BGU DELTA	29-23		Protective \$5,000
WYW130638	4901923680	BGU DELTA	29-34		Protective \$5,000
WYW130638	4901923684	BGU DELTA	29-41		Protective \$5,000
WYW130638	4901923693	BGU EPSILON	27-43		Protective \$5,000
WYW130638	4901923657	BGU DELTA	28-23		Protective \$12,000
WYW130638	4901923698	BGU EPSILON	27-12		Protective \$12,000
WYW130638	4901923656	BGU DELTA	28-21		Protective \$12,000
WYW130638	4901923666	BGU DELTA	29-32		Protective \$12,000
WYW130638	4901923682	BGU DELTA	29-43		Protective \$12,000
WYW130638	4901923697	BGU EPSILON	27-14		Protective \$12,000
WYW130638	4901923715	BGU EPSILON	27-21		Protective \$12,000
WYW130638	4901923696	BGU EPSILON	27-23		Protective \$12,000
WYW130638	4901923694	BGU EPSILON	27-34		Protective \$12,000
WYW130791	4900554888	LONG DRAW 1 LDU	23-9WA		Protective \$12,000
WYW130791	4900559351	LONG DRAW 2 LDU	34-9WA		Protective \$12,000
WYW131202	4900547554	N HAY CREEK FULLER	21-6		Protective \$5,000
WYW131202	4900547552	N HAY CREEK FULLER	23-6		Protective \$5,000
WYW131202	4900547553	N HAY CREEK FULLER	32-6		Protective \$5,000
WYW131202	4900547555	N HAY CREEK FULLER	34-6		Protective \$5,000
WYW131209	4900544796	FULLER BELLE FOURCHE BROWN		25-Dec	Protective \$5,000
WYW131209	4900544795	FULLER BELLE FOURCHE BROWN	14-25		Protective \$5,000
WYW131209	4900544794	FULLER BELLE FOURCHE BROWN	21-25		Protective \$5,000
WYW131224	4900560709	GAUGE DAVENPORT CS		1	Protective \$12,000
WYW131744	4901925555	SCHOONOVER RD 3 SRU	24-25		Protective \$12,000
WYW131745	4901923677	BGU DELTA	32-34		Protective \$12,000
WYW131745	4901923683	BGU DELTA	31-34		Protective \$12,000
WYW131745	4901923687	BGU DELTA	31-43		Protective \$12,000
WYW131745	4901923686	BGU DELTA	32-14		Protective \$12,000
WYW131745	4901923675	BGU DELTA	32-23		Protective \$12,000
WYW131745	4901923676	BGU DELTA	32-32		Protective \$12,000
WYW131745	4901923678	BGU DELTA	32-41		Protective \$12,000
WYW131745	4901923679	BGU DELTA	32-43		Protective \$12,000
WYW131745	4901923701	BGU EPSILON	34-21		Protective \$12,000
WYW131747	4901927044	LAMBDA RHO BIG MIKE UNIT		14-Oct	Protective \$5,000
WYW131747	4901926925	LAMBDA RHO BIG MIKE UNIT		Nov-34	Protective \$5,000
WYW131747	4901926927	LAMBDA RHO BIG MIKE UNIT		Nov-43	Protective \$5,000
WYW131747	4901926900	LAMBDA RHO BIG MIKE UNIT		Oct-32	Protective \$12,000
WYW131747	4901927041	LAMBDA RHO BIG MIKE UNIT		Oct-34	Protective \$12,000
WYW131747	4901927031	LAMBDA RHO BIG MIKE UNIT		12-Nov	Protective \$12,000
WYW131747	4901927030	LAMBDA RHO BIG MIKE UNIT		14-Nov	Protective \$12,000
WYW131747	4901927029	LAMBDA RHO BIG MIKE UNIT		21-Nov	Protective \$12,000
WYW131747	4901927028	LAMBDA RHO BIG MIKE UNIT		23-Nov	Protective \$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW131747	4901926924	LAMBDA RHO BIG MIKE UNIT		Nov-32	Protective \$12,000
WYW131747	4901926926	LAMBDA RHO BIG MIKE UNIT		Nov-41	Protective \$12,000
WYW131747	4901927039	LAMBDA RHO BIG MIKE UNIT	15-12		Protective \$12,000
WYW131747	4901927038	LAMBDA RHO BIG MIKE UNIT	15-21		Protective \$12,000
WYW131747	4901926902	LAMBDA RHO BIG MIKE UNIT	15-23		Protective \$12,000
WYW131747	4901927037	LAMBDA RHO BIG MIKE UNIT	15-32		Protective \$12,000
WYW131747	4901926903	LAMBDA RHO BIG MIKE UNIT	15-34		Protective \$12,000
WYW131747	4901927036	LAMBDA RHO BIG MIKE UNIT	15-41		Protective \$12,000
WYW131747	4901926904	LAMBDA RHO BIG MIKE UNIT	15-43		Protective \$12,000
WYW131748	4901925578	IOTA ZETA BIG MIKE UNIT	24-14		Protective \$5,000
WYW131748	4901925574	IOTA ZETA BIG MIKE UNIT	24-32		Protective \$5,000
WYW131748	4901925570	IOTA ZETA BIG MIKE UNIT	24-41		Protective \$5,000
WYW131748	4901925544	IOTA ZETA BIG MIKE UNIT	25-23		Protective \$5,000
WYW131748	4901925542	IOTA ZETA BIG MIKE UNIT	25-34		Protective \$12,000
WYW131748	4901925579	IOTA ZETA BIG MIKE UNIT	24-12		Protective \$12,000
WYW131748	4901925577	IOTA ZETA BIG MIKE UNIT	24-21		Protective \$12,000
WYW131748	4901925576	IOTA ZETA BIG MIKE UNIT	24-23		Protective \$12,000
WYW131748	4901925547	IOTA ZETA BIG MIKE UNIT	25-12		Protective \$12,000
WYW131748	4901925545	IOTA ZETA BIG MIKE UNIT	25-21		Protective \$12,000
WYW131748	4901925618	IOTA ZETA BIG MIKE UNIT	25-43		Protective \$12,000
WYW132214	4900544717	ROCHELLE LAKE STUART		Dec-34	Protective \$5,000
WYW132214	4900544715	ROCHELLE LAKE STUART	21-34		Protective \$5,000
WYW132214	4900544713	ROCHELLE LAKE STUART	34-34		Protective \$5,000
WYW132214	4900544712	ROCHELLE LAKE STUART	43-34		Protective \$5,000
WYW132214	4900546022	SAGER CY MILLS		22-Dec	Protective \$5,000
WYW132214	4900546006	SAGER CY MILLS	14-15		Protective \$5,000
WYW132214	4900546021	SAGER CY MILLS	21-22		Protective \$5,000
WYW132214	4900546005	SAGER CY MILLS	23-15		Protective \$5,000
WYW132214	4900561851	USA	44-71-27A-34-1H		Protective \$125,000
WYW132228	4900545979	S HAY CREEK DURHAM RANCH	23-14 4472		Protective \$5,000
WYW132228	4900562677	DURHAM RANCHES 2 FED	14-114472-CXPH		Protective \$5,000
WYW132228	4900587914	MW DURHAM RANCH COAL MONITOR	43-14B		Protective \$12,000
WYW132228	4900563045	DURHAM RANCHES 2 FED	14-114472-CXPRH		Protective \$125,000
WYW132243	4900559515	BUCKSKIN FLINTLOCK CS		5	Protective \$5,000
WYW132243	4900554651	BUCKSKIN FLINTLOCK CS COM	1*		Protective \$5,000
WYW132243	4900559516	BUCKSKIN FLINTLOCK CS FED COM		6	Protective \$5,000
WYW132243	4900554652	BUCKSKIN FLINTLOCK CS FED		3	Protective \$12,000
WYW132243	4900554784	BUCKSKIN FLINTLOCK CS FED		4	Protective \$12,000
WYW132257	4900554658	LELA HEIDI CS		6	Protective \$5,000
WYW132257	4900554659	LELA HEIDI CS		7	Protective \$5,000
WYW132257	4900554660	LELA HEIDI CS		8	Protective \$5,000
WYW132257	4900554654	LELA HEIDI CS		2	Protective \$12,000
WYW132257	4900554655	LELA HEIDI CS		3	Protective \$12,000
WYW132257	4900554653	LELA HEIDI CS FEDERAL	1*		Protective \$12,000
WYW132257	4900554656	LELA HEIDI CS FEDERAL		4	Protective \$12,000
WYW132257	4900554657	LELA HEIDI CS FEDERAL		5	Protective \$12,000
WYW132258	4900554662	LELA CS FEDERAL		2	Protective \$5,000
WYW132258	4900554666	LELA CS FEDERAL		6	Protective \$5,000
WYW132258	4900554669	LELA CS FEDERAL		9	Protective \$5,000
WYW132258	4900554661	LELA CS		1	Protective \$12,000
WYW132258	4900554668	LELA CS		8	Protective \$12,000
WYW132258	4900554664	LELA CS FEDERAL		4	Protective \$12,000
WYW132258	4900554665	LELA CS FEDERAL		5	Protective \$12,000
WYW132258	4900554667	LELA CS FEDERAL		7	Protective \$12,000
WYW132258	4900554663	LELA CS FEDERAL COM		3	Protective \$12,000
WYW132273	4901927313	SIGMA TAU BIG GEORGE UNIT	17-12		Protective \$12,000
WYW132915	4900561597	IBERLIN FED 1	1-8-5H		Protective \$125,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW132915	4900562471	SUCHAN FED 1 IBERLIN	1-8TH	Protective	\$125,000
WYW132928	4901928576	BROOK TROUT WPTU	19S-1	Protective	\$12,000
WYW132929	4901925500	SCHOONOVER RD 3 FEDERAL	14-5	Protective	\$12,000
WYW132929	4901925497	SCHOONOVER RD 3 IBERLIN RCH	23-5	Protective	\$12,000
WYW133327	4901924989	COULTER 1 FEDERAL	34-15	Protective	\$5,000
WYW133327	4901924995	COULTER 1 WELLES	43-15	Protective	\$5,000
WYW133327	4901923140	COULTER 1 BIG CAT FEDERAL	23-14*	Protective	\$12,000
WYW133327	4901924992	COULTER 1 FEDERAL	41-22	Protective	\$12,000
WYW133327	4901923388	COULTER 1 BIG CAT FEDERAL	43-14	Protective	\$12,000
WYW133327	4901924988	COULTER 1 FEDERAL	32-22	Protective	\$12,000
WYW133327	4901924990	COULTER 1 FEDERAL	34-22	Protective	\$12,000
WYW133327	4901924993	COULTER 1 FEDERAL	43-22	Protective	\$12,000
WYW133327	4901924994	COULTER 1 WELLES	32-15	Protective	\$12,000
WYW133629	4901927317	SIGMA TAU BIG GEORGE UNIT	17-21	Protective	\$12,000
WYW133634	4901923543	WHISKEY DRAW UNIT WDU FED	14-2	Protective	\$12,000
WYW133634	4901923552	WHISKEY DRAW UNIT WDU FED	21-3	Protective	\$12,000
WYW133634	4901923556	WHISKEY DRAW UNIT WDU FED	43-3	Protective	\$12,000
WYW134204	4900557835	STODDARD BRIDLE BIT RANCH	32-20	Protective	\$5,000
WYW134204	4900557836	STODDARD BRIDLE BIT RANCH	34-20	Protective	\$5,000
WYW134204	4900557837	STODDARD BRIDLE BIT RANCH	41-20	Protective	\$5,000
WYW134204	4900557838	STODDARD BRIDLE BIT RANCH	43-20	Protective	\$5,000
WYW134204	4900557839	STODDARD	21-Dec	Protective	\$12,000
WYW134204	4900557840	STODDARD	14-21	Protective	\$12,000
WYW134204	4900557842	STODDARD	23-21	Protective	\$12,000
WYW134204	4900557843	STODDARD	32-21	Protective	\$12,000
WYW134204	4900557844	STODDARD	41-21	Protective	\$12,000
WYW134204	4900564763	DILTS FEDERAL	11-17-20 TH	Protective	\$125,000
WYW134204	4900564762	DILTS FEDERAL	21-17 -20PH	Protective	\$125,000
WYW134204	4900564449	DILTS FEDERAL	34-19 TH	Protective	\$125,000
WYW134204	4900562754	DILTS FEDERAL 1 DILTS	34-17PH	Protective	\$125,000
WYW134204	4900562756	DILTS FEDERAL 1 DILTS	41-20 PH	Protective	\$125,000
WYW134204	4900564441	DILTS FEDERAL 1 DILTS	44-17PH	Protective	\$125,000
WYW134204	4900564761	DILTS FEDERAL 11-17 PH	11-17-20 PH	Protective	\$125,000
WYW134204	4900564764	DILTS FEDERAL 21-17-20 TH	21-17-20 TH	Protective	\$125,000
WYW134204	4900564440	DILTS FEDERAL 31-20 PH	31-20 PH	Protective	\$125,000
WYW134204	4900561945	STODDARD FED	2-21 PH	Protective	\$125,000
WYW134204	4900561944	STODDARD FED	2-21 TH	Protective	\$125,000
WYW134204	4900561946	STODDARD FED	4-21 PH	Protective	\$125,000
WYW134204	4900561950	STODDARD FED 21/4272 STODDARD	1-21MH*	Protective	\$125,000
WYW134204	4900561947	STODDARD FED 21/4272 STODDARD	1-21PH	Protective	\$125,000
WYW134204	4900561949	STODDARD FED 21/4272 STODDARD	1-21TH	Protective	\$125,000
WYW134225	4900558237	SCHOONOVER RD 5 SRU	43-24	Protective	\$5,000
WYW134225	4900507914	MW NAPIER SRU	44-24-4876MC	Protective	\$12,000
WYW134225	4900507915	MW NAPIER SRU	44-24-4876MS	Protective	\$12,000
WYW134231	4901925531	SCHOONOVER RD 3 SRU	41-31	Protective	\$5,000
WYW134231	4901925504	SCHOONOVER RD 3 SRU	34-29	Protective	\$12,000
WYW134231	4901925532	SCHOONOVER RD 3 SRU	34-31	Protective	\$12,000
WYW134231	4901925509	SCHOONOVER RD 3 SRU	29-Dec	Protective	\$12,000
WYW134231	4901925536	SCHOONOVER RD 3 SRU	31-Dec	Protective	\$12,000
WYW134231	4901925535	SCHOONOVER RD 3 SRU	14-31	Protective	\$12,000
WYW134231	4901925507	SCHOONOVER RD 3 SRU	21-29	Protective	\$12,000
WYW134231	4901925534	SCHOONOVER RD 3 SRU	21-31	Protective	\$12,000
WYW134231	4901925505	SCHOONOVER RD 3 SRU	32-29	Protective	\$12,000
WYW134231	4901925533	SCHOONOVER RD 3 SRU	32-31	Protective	\$12,000
WYW134231	4901925503	SCHOONOVER RD 3 SRU	41-29	Protective	\$12,000
WYW134231	4901925502	SCHOONOVER RD 3 SRU	43-29	Protective	\$12,000
WYW134231	4901925530	SCHOONOVER RD 3 SRU	43-31	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW134231	4900559032	SCHOONOVER RD 4 SRU	43-34	Protective	\$12,000
WYW134239	4901929605	STORM TEMPEST CS	1*	Protective	\$12,000
WYW134240	4901926296	BULLWHACKER III DRY FORK	43-31	Protective	\$12,000
WYW134240	4901926297	BULLWHACKER III DRY FORK	14-32	Protective	\$12,000
WYW134240	4901926298	BULLWHACKER III DRY FORK	23-32	Protective	\$12,000
WYW134240	4901926295	BULLWHACKER III DRY FORK	34-31	Protective	\$12,000
WYW134241	4901929604	STORM SQUALL CS		2 Protective	\$12,000
WYW134242	4901921223	BGU ALPHA FEDERAL	24-10	Protective	\$5,000
WYW134242	4901921981	BGU ALPHA FEDERAL	32-10	Protective	\$5,000
WYW134242	4901921982	BGU ALPHA FEDERAL	33-10	Protective	\$5,000
WYW134242	4901921978	BGU ALPHA FEDERAL	34-10	Protective	\$5,000
WYW134242	4901921222	BGU ALPHA FEDERAL	41-10	Protective	\$5,000
WYW134242	4901921224	BGU ALPHA FEDERAL	43-10	Protective	\$5,000
WYW134242	4901922815	BGU GAMMA		21-Mar Protective	\$5,000
WYW134242	4901922818	BGU GAMMA		Mar-43 Protective	\$5,000
WYW134242	4901921218	BGU ALPHA FEDERAL	44-10	Protective	\$12,000
WYW134242	4901921219	BGU ALPHA FEDERAL		10-Nov Protective	\$12,000
WYW134242	4901921221	BGU ALPHA FEDERAL		10-Dec Protective	\$12,000
WYW134242	4901921444	BGU ALPHA FEDERAL	13-10	Protective	\$12,000
WYW134242	4901921461	BGU ALPHA FEDERAL	21-10	Protective	\$12,000
WYW134242	4901921979	BGU ALPHA FEDERAL	22-10	Protective	\$12,000
WYW134242	4901921980	BGU ALPHA FEDERAL	31-10	Protective	\$12,000
WYW134242	4901922813	BGU GAMMA	3-12*	Protective	\$12,000
WYW134242	4901922814	BGU GAMMA		14-Mar Protective	\$12,000
WYW134242	4901922816	BGU GAMMA		23-Mar Protective	\$12,000
WYW134242	4901922817	BGU GAMMA		Mar-34 Protective	\$12,000
WYW134244	4901923695	BGU EPSILON	27-32	Protective	\$5,000
WYW134244	4901923716	BGU EPSILON	27-41	Protective	\$5,000
WYW134248	4901926929	LAMBDA RHO BIG MIKE UNIT		14-Dec Protective	\$5,000
WYW134248	4901926932	LAMBDA RHO BIG MIKE UNIT		Dec-32 Protective	\$12,000
WYW134248	4901926928	LAMBDA RHO BIG MIKE UNIT		12-Dec Protective	\$12,000
WYW134248	4901926930	LAMBDA RHO BIG MIKE UNIT		21-Dec Protective	\$12,000
WYW134248	4901926931	LAMBDA RHO BIG MIKE UNIT		23-Dec Protective	\$12,000
WYW134248	4901926933	LAMBDA RHO BIG MIKE UNIT		Dec-34 Protective	\$12,000
WYW134248	4901926934	LAMBDA RHO BIG MIKE UNIT		Dec-41 Protective	\$12,000
WYW134248	4901926936	LAMBDA RHO BIG MIKE UNIT		Dec-43 Protective	\$12,000
WYW134913	4901925494	SCHOONOVER RD 3 IBERLIN RCH	41-5	Protective	\$12,000
WYW134913	4901925496	SCHOONOVER RD 3 IBERLIN RCH	32-5	Protective	\$12,000
WYW134913	4900558946	SCHOONOVER RD 4 IBERLIN RAN	21-4	Protective	\$12,000
WYW134915	4900559036	SCHOONOVER RD 4 SRU	21-34	Protective	\$12,000
WYW134915	4900559238	SCHOONOVER RD 4 SRU	34-33	Protective	\$12,000
WYW134915	4900559038	SCHOONOVER RD 4 SRU		Dec-34 Protective	\$12,000
WYW134915	4900559041	SCHOONOVER RD 4 SRU	14-33	Protective	\$12,000
WYW134915	4900559035	SCHOONOVER RD 4 SRU	23-34	Protective	\$12,000
WYW134920	4901924307	KINGSBURY II KU	43-14	Protective	\$12,000
WYW134920	4901924305	KINGSBURY II KU	34-14	Protective	\$12,000
WYW134921	4901926906	LAMBDA RHO BIG MIKE UNIT	6-12*	Protective	\$5,000
WYW134922	4901926068	DELTA ANADARKO	31-41	Protective	\$12,000
WYW135568	4900536623	E FORK DURHAM RANCH		7-Dec Protective	\$5,000
WYW135568	4900545959	E FORK SWINGHOLM	34-5	Protective	\$5,000
WYW135568	4900545970	E FORK SWINGHOLM	41-8	Protective	\$5,000
WYW135568	4900562566	STUART	44-71-5A-8-1H	Protective	\$125,000
WYW135596	4900544651	SCHOOL SECTION SAUNDERS	14-6-4873	Protective	\$5,000
WYW135622	4901925499	SCHOONOVER RD 3 IBERLIN RCH	12-5*	Protective	\$12,000
WYW135622	4900558939	SCHOONOVER RD 4 FEDERAL	14-3	Protective	\$12,000
WYW135622	4900558940	SCHOONOVER RD 4 FEDERAL	34-3	Protective	\$12,000
WYW135622	4900558942	SCHOONOVER RD 4 IBERLIN RAN	23-3	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW135622	4900558943	SCHOONOVER RD 4 IBERLIN RAN	41-3	Protective	\$12,000
WYW135622	4900558944	SCHOONOVER RD 4 IBERLIN RAN	43-3	Protective	\$12,000
WYW135630	4901925255	WHISKEY DRAW UNIT 1 WDU	12-13BG	Protective	\$12,000
WYW135630	4901925258	WHISKEY DRAW UNIT 1 WDU	21-13BG	Protective	\$12,000
WYW135630	4901925306	WHISKEY DRAWN WDU	14-12	Protective	\$12,000
WYW135913	4900558891	MALLARD RECORD	12W-895	Protective	\$12,000
WYW135913	4900558889	MALLARD RECORD	14W-895	Protective	\$12,000
WYW135913	4900558903	MALLARD RECORD	21A-895	Protective	\$12,000
WYW135913	4900558884	MALLARD RECORD	21W-895	Protective	\$12,000
WYW135913	4900558881	MALLARD RECORD	23W-895	Protective	\$12,000
WYW135913	4900558905	MALLARD RECORD	32A-895	Protective	\$12,000
WYW135913	4900558879	MALLARD RECORD	32W-895	Protective	\$12,000
WYW135913	4900558901	MALLARD RECORD	12A-895	Protective	\$12,000
WYW135921	4901926319	BULLWHACKER III BCU	14-22	Protective	\$12,000
WYW135921	4901926272	BULLWHACKER III BCU	14-Dec	Protective	\$12,000
WYW135921	4901926279	BULLWHACKER III BCU	15-Dec	Protective	\$12,000
WYW135921	4901926317	BULLWHACKER III BCU	22-Dec	Protective	\$12,000
WYW135921	4901926303	BULLWHACKER III BCU	23-Dec	Protective	\$12,000
WYW135921	4901926273	BULLWHACKER III BCU	14-14	Protective	\$12,000
WYW135921	4901926281	BULLWHACKER III BCU	14-15	Protective	\$12,000
WYW135921	4901926304	BULLWHACKER III BCU	14-23	Protective	\$12,000
WYW135921	4901926276	BULLWHACKER III BCU	21-14	Protective	\$12,000
WYW135921	4901926283	BULLWHACKER III BCU	21-15	Protective	\$12,000
WYW135921	4901926320	BULLWHACKER III BCU	21-22	Protective	\$12,000
WYW135921	4901926305	BULLWHACKER III BCU	21-23	Protective	\$12,000
WYW135921	4901926277	BULLWHACKER III BCU	23-14	Protective	\$12,000
WYW135921	4901926232	BULLWHACKER III BCU	23-15	Protective	\$12,000
WYW135921	4901926321	BULLWHACKER III BCU	23-22	Protective	\$12,000
WYW135921	4901926306	BULLWHACKER III BCU	23-23	Protective	\$12,000
WYW135921	4901926233	BULLWHACKER III BCU	32-15	Protective	\$12,000
WYW135921	4901926299	BULLWHACKER III BCU	32-22	Protective	\$12,000
WYW135921	4901926234	BULLWHACKER III BCU	34-15	Protective	\$12,000
WYW135921	4901926300	BULLWHACKER III BCU	34-22	Protective	\$12,000
WYW135921	4901926235	BULLWHACKER III BCU	41-15	Protective	\$12,000
WYW135921	4901926301	BULLWHACKER III BCU	41-22	Protective	\$12,000
WYW135921	4901926236	BULLWHACKER III BCU	43-15	Protective	\$12,000
WYW135921	4901926302	BULLWHACKER III BCU	43-22	Protective	\$12,000
WYW137036	4901929199	BEAR DRAW GAMMA BDU	21-26	Protective	\$5,000
WYW137036	4901929210	BEAR DRAW GAMMA BDU	26-Dec	Protective	\$12,000
WYW137036	4901929259	BEAR DRAW GAMMA BDU	32-35	Protective	\$12,000
WYW137036	4901929207	BEAR DRAW GAMMA BDU	34-25	Protective	\$12,000
WYW137036	4901929208	BEAR DRAW GAMMA BDU	41-25	Protective	\$12,000
WYW137036	4901929209	BEAR DRAW GAMMA BDU	42-25	Protective	\$12,000
WYW137036	4901929260	BEAR DRAW GAMMA BDU	42-35	Protective	\$12,000
WYW137036	4901926142	BEAR DRAW UNIT BETA BDU	43-22BG	Protective	\$12,000
WYW137117	4901926803	COULTER 3 FEDERAL	12-25BG	Protective	\$12,000
WYW137117	4901926699	COULTER 3 FEDERAL	21-25BG	Protective	\$12,000
WYW137117	4901926719	COULTER 3 FEDERAL	32-25BG	Protective	\$12,000
WYW137117	4901926718	COULTER 3 FEDERAL	41-25BG	Protective	\$12,000
WYW137303	4901927348	WEST BEAR DRAW HEPP	43-32	Protective	\$5,000
WYW137303	4901927423	WEST BEAR DRAW HEPP	14-32	Protective	\$12,000
WYW137303	4901927422	WEST BEAR DRAW HEPP	32-32	Protective	\$12,000
WYW137303	4901927345	WEST BEAR DRAW HEPP FED	23-32-5079	Protective	\$12,000
WYW137303	4901927346	WEST BEAR DRAW HEPP FED	34-32-5079	Protective	\$12,000
WYW137303	4901927720	WEST BEAR DRAW HEPP FED	42-32-5079	Protective	\$12,000
WYW137303	4901927360	WEST BEAR DRAW WBD	34-4	Protective	\$12,000
WYW137303	4901927362	WEST BEAR DRAW WBD	43-4	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW137303	4901927468	WEST BEAR DRAW TEAR DROP	21-Nov	Protective	\$12,000
WYW137303	4901927469	WEST BEAR DRAW TEAR DROP	21-Dec	Protective	\$12,000
WYW137303	4901927353	WEST BEAR DRAW TEAR DROP	28-Dec	Protective	\$12,000
WYW137303	4901927467	WEST BEAR DRAW TEAR DROP	14-21	Protective	\$12,000
WYW137303	4901927354	WEST BEAR DRAW TEAR DROP	21-28	Protective	\$12,000
WYW137303	4901927351	WEST BEAR DRAW TEAR DROP	23-21	Protective	\$12,000
WYW137303	4901927352	WEST BEAR DRAW TEAR DROP	32-21-5079	Protective	\$12,000
WYW137303	4901927471	WEST BEAR DRAW TEAR DROP	41-21	Protective	\$12,000
WYW137649	4901927330	SIGMA TAU BIG GEORGE UNIT	19-32	Protective	\$12,000
WYW137649	4901927646	SIGMA TAU BIG GEORGE UNIT	18-12	Protective	\$12,000
WYW137649	4901927645	SIGMA TAU BIG GEORGE UNIT	18-14	Protective	\$12,000
WYW137649	4901927323	SIGMA TAU BIG GEORGE UNIT	18-21	Protective	\$12,000
WYW137649	4901927324	SIGMA TAU BIG GEORGE UNIT	18-23	Protective	\$12,000
WYW137649	4901927329	SIGMA TAU BIG GEORGE UNIT	19-21	Protective	\$12,000
WYW137649	4901927331	SIGMA TAU BIG GEORGE UNIT	19-41	Protective	\$12,000
WYW137649	4901927390	SIGMA TAU BIG GEORGE UNIT	20-12	Protective	\$12,000
WYW137649	4901927333	SIGMA TAU BIG GEORGE UNIT	20-21	Protective	\$12,000
WYW137649	4901927651	SIGMA TAU BIG GEORGE UNIT	14-Jul	Protective	\$12,000
WYW137649	4901927650	SIGMA TAU BIG GEORGE UNIT	21-Jul	Protective	\$12,000
WYW137649	4901927648	SIGMA TAU BIG GEORGE UNIT	23-Jul	Protective	\$12,000
WYW137650	4901923662	BGU DELTA	29-12	Protective	\$12,000
WYW137651	4901925583	IOTA ZETA BIG MIKE UNIT	23-23	Protective	\$5,000
WYW137651	4901925582	IOTA ZETA BIG MIKE UNIT	23-32	Protective	\$5,000
WYW137651	4901925621	IOTA ZETA BIG MIKE UNIT	26-14	Protective	\$5,000
WYW137651	4901925622	IOTA ZETA BIG MIKE UNIT	26-21	Protective	\$5,000
WYW137651	4901925601	IOTA ZETA BIG MIKE UNIT	26-41	Protective	\$12,000
WYW137651	4901925586	IOTA ZETA BIG MIKE UNIT	23-12	Protective	\$12,000
WYW137651	4901925585	IOTA ZETA BIG MIKE UNIT	23-14	Protective	\$12,000
WYW137651	4901925584	IOTA ZETA BIG MIKE UNIT	23-21	Protective	\$12,000
WYW137651	4901925581	IOTA ZETA BIG MIKE UNIT	23-34	Protective	\$12,000
WYW137651	4901925628	IOTA ZETA BIG MIKE UNIT	23-41	Protective	\$12,000
WYW137651	4901925580	IOTA ZETA BIG MIKE UNIT	23-43	Protective	\$12,000
WYW137651	4901925619	IOTA ZETA BIG MIKE UNIT	26-12	Protective	\$12,000
WYW137651	4901925606	IOTA ZETA BIG MIKE UNIT	26-23	Protective	\$12,000
WYW137651	4901925604	IOTA ZETA BIG MIKE UNIT	26-32	Protective	\$12,000
WYW137651	4901925603	IOTA ZETA BIG MIKE UNIT	26-34	Protective	\$12,000
WYW137651	4901925600	IOTA ZETA BIG MIKE UNIT	26-43	Protective	\$12,000
WYW137652	4901924346	HARRIER JDFU	32G-298	Protective	\$12,000
WYW137926	4901927089	LAMBDA RHO BIG MIKE UNIT	12-Apr	Protective	\$5,000
WYW137926	4901927042	LAMBDA RHO BIG MIKE UNIT	23-Oct	Protective	\$12,000
WYW137926	4901926899	LAMBDA RHO BIG MIKE UNIT	Oct-41	Protective	\$12,000
WYW137926	4901927040	LAMBDA RHO BIG MIKE UNIT	Oct-43	Protective	\$12,000
WYW137926	4901927059	LAMBDA RHO BIG MIKE UNIT	12-Mar	Protective	\$12,000
WYW137926	4901927056	LAMBDA RHO BIG MIKE UNIT	21-Mar	Protective	\$12,000
WYW137926	4901927054	LAMBDA RHO BIG MIKE UNIT	Mar-32	Protective	\$12,000
WYW137926	4901927053	LAMBDA RHO BIG MIKE UNIT	Mar-34	Protective	\$12,000
WYW137926	4901927052	LAMBDA RHO BIG MIKE UNIT	Mar-42	Protective	\$12,000
WYW137926	4901927051	LAMBDA RHO BIG MIKE UNIT	Mar-43	Protective	\$12,000
WYW137926	4901927050	LAMBDA RHO BIG MIKE UNIT	21-Apr	Protective	\$12,000
WYW137926	4901927048	LAMBDA RHO BIG MIKE UNIT	Apr-32	Protective	\$12,000
WYW137926	4901927047	LAMBDA RHO BIG MIKE UNIT	Apr-41	Protective	\$12,000
WYW137926	4901927046	LAMBDA RHO BIG MIKE UNIT	Apr-43	Protective	\$12,000
WYW138125	4900565345	LEAVITT TRUST FEDERAL	14-7 PH	Protective	\$125,000
WYW138125	4900565346	LEAVITT TRUST FEDERAL	14-7 TH	Protective	\$125,000
WYW138125	4900570264	LEAVITT TRUST FEDERAL	24-7 PH	Protective	\$125,000
WYW138125	4900561485	LEAVITT FEDERAL TRUST	21-7TH	Protective	\$125,000
WYW138125	4900562112	CORPORAL FED COM	1H	Protective	\$125,000

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WYW138615	4900561436	J CHRISTENSEN FED	21-35	Protective	\$12,000
WYW139064	4900551244	PORCUPINE BBC FEDERAL	12-2*	Protective	\$5,000
WYW139064	4900551246	PORCUPINE BBC FEDERAL	21-2	Protective	\$5,000
WYW139064	4900551245	PORCUPINE BBC FEDERAL	14-2	Protective	\$12,000
WYW139064	4900551247	PORCUPINE BBC FEDERAL	23-2	Protective	\$12,000
WYW139065	4900549292	PORCUPINE BUTTES CAMPBELL	21-31UW	Protective	\$5,000
WYW139065	4900549291	PORCUPINE BUTTES CAMPBELL	21-23UW	Protective	\$12,000
WYW139066	4900544730	ROCHELLE LAKE STUART	12/4/4371	Protective	\$5,000
WYW139069	4900545963	E FORK BOLLER MILLS RANCH	10-Dec	Protective	\$5,000
WYW139069	4900573553	CASTLE	10-14TH	Protective	\$125,000
WYW139111	4901925615	IOTA ZETA ANADARKO	18-43	Protective	\$5,000
WYW139111	4901925616	IOTA ZETA ANADARKO FED	18-14	Protective	\$5,000
WYW139111	4901925617	IOTA ZETA ANADARKO FED	18-12*	Protective	\$12,000
WYW139115	4901923135	WELLES BIG CAT	1410-4879	Protective	\$5,000
WYW139115	4901923134	WELLES BIG CAT	1210-4879	Protective	\$12,000
WYW139115	4901923202	WELLES BIG CAT	1404-4879*	Protective	\$12,000
WYW139115	4901923136	WELLES BIG CAT	2110-4879	Protective	\$12,000
WYW139115	4901923131	WELLES BIG CAT	2304-4879	Protective	\$12,000
WYW139115	4901923137	WELLES BIG CAT	2310-4879	Protective	\$12,000
WYW139115	4901923133	WELLES BIG CAT	4304-4879	Protective	\$12,000
WYW139115	4901923132	WELLES BIG CAT	3404-4879	Protective	\$12,000
WYW139115	4901923138	WELLES BIG CAT	4110-4879	Protective	\$12,000
WYW139696	4901927334	SIGMA TAU BIG GEORGE UNIT	20-32	Protective	\$12,000
WYW139696	4901927335	SIGMA TAU BIG GEORGE UNIT	20-41	Protective	\$12,000
WYW139696	4901927336	SIGMA TAU BIG GEORGE UNIT	21-12	Protective	\$12,000
WYW139696	4901927337	SIGMA TAU BIG GEORGE UNIT	21-21	Protective	\$12,000
WYW139696	4901927338	SIGMA TAU BIG GEORGE UNIT	21-32	Protective	\$12,000
WYW139696	4901927339	SIGMA TAU BIG GEORGE UNIT	21-41	Protective	\$12,000
WYW139818	4901926130	BEAR DRAW UNIT BETA BDU	41-24BG	Protective	\$5,000
WYW139818	4901929192	BEAR DRAW GAMMA BDU	25-Dec	Protective	\$12,000
WYW139818	4901929191	BEAR DRAW GAMMA BDU	14-25	Protective	\$12,000
WYW139818	4901929197	BEAR DRAW GAMMA BDU	21-25	Protective	\$12,000
WYW139818	4901929205	BEAR DRAW GAMMA BDU	22-25	Protective	\$12,000
WYW139818	4901929206	BEAR DRAW GAMMA BDU	24-25	Protective	\$12,000
WYW139818	4901926141	BEAR DRAW UNIT BETA BDU	12-23BG	Protective	\$12,000
WYW139818	4901926139	BEAR DRAW UNIT BETA BDU	21-23BG	Protective	\$12,000
WYW139818	4901926138	BEAR DRAW UNIT BETA BDU	32-23BG	Protective	\$12,000
WYW139818	4901926135	BEAR DRAW UNIT BETA BDU	43-23BG	Protective	\$12,000
WYW139818	4901926132	BEAR DRAW UNIT BETA BDU	43-24BG	Protective	\$12,000
WYW139818	4901926134	BEAR DRAW UNIT BETA BDU FED	12-24BG	Protective	\$12,000
WYW139818	4901926140	BEAR DRAW UNIT BETA BDU FED	14-23BG	Protective	\$12,000
WYW139818	4901926127	BEAR DRAW UNIT BETA BDU FED	21-24BG	Protective	\$12,000
WYW139818	4901926169	BEAR DRAW UNIT BETA BDU FED	23-23BG	Protective	\$12,000
WYW139818	4901926129	BEAR DRAW UNIT BETA BDU FED	32-24BG	Protective	\$12,000
WYW139818	4901926137	BEAR DRAW UNIT BETA BDU FED	34-23BG	Protective	\$12,000
WYW139818	4901926131	BEAR DRAW UNIT BETA BDU FED	34-24BG	Protective	\$12,000
WYW139818	4901926136	BEAR DRAW UNIT BETA BDU FED	41-23BG	Protective	\$12,000
WYW140157	4901929602	STORM GUST CS	3	Protective	\$12,000
WYW140211	4900546009	SAGER CY BOLLER MILLS	43-8 4471*	Protective	\$5,000
WYW140253	4901923277	COULTER 3 WATKINS	23-13BG	Protective	\$5,000
WYW140253	4901923281	COULTER 5 WATKINS	43-13	Protective	\$5,000
WYW140253	4901926720	COULTER 3 CAMINO RANCH LP	14-13	Protective	\$12,000
WYW140253	4901923286	COULTER 3 WATKINS	12-13BG	Protective	\$12,000
WYW140253	4901923278	COULTER 5 FEDERAL	34-13	Protective	\$12,000
WYW140253	4901923280	COULTER 5 WATKINS	41-13	Protective	\$12,000
WYW140253	4901923898	COULTER 5 WELLES	32-13	Protective	\$12,000
WYW140253	4901923897	COULTER 5 WELLES	34-12	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW140575	4901929269	SOUTH BEAR TEAR DROP	12-14BG	Protective	\$12,000
WYW140575	4901929268	SOUTH BEAR TEAR DROP	14-14BG	Protective	\$12,000
WYW140575	4901929267	SOUTH BEAR TEAR DROP	21-14BG	Protective	\$12,000
WYW140575	4901929266	SOUTH BEAR TEAR DROP	23-14BG	Protective	\$12,000
WYW140575	4901929224	SOUTH BEAR TEAR DROP	34-11BG	Protective	\$12,000
WYW140575	4901929223	SOUTH BEAR TEAR DROP	34-14BG	Protective	\$12,000
WYW140575	4901929221	SOUTH BEAR TEAR DROP	43-11BG	Protective	\$12,000
WYW140575	4901929272	SOUTH BEAR TEAR DROP	43-14BG	Protective	\$12,000
WYW140575	4901929239	SOUTH BEAR	12-12BG	Protective	\$12,000
WYW140575	4901929240	SOUTH BEAR	14-12BG	Protective	\$12,000
WYW140575	4901929241	SOUTH BEAR	14-13BG	Protective	\$12,000
WYW140575	4901929231	SOUTH BEAR	21-12BG	Protective	\$12,000
WYW140575	4901929663	SOUTH BEAR	23-12BG	Protective	\$12,000
WYW140575	4901929665	SOUTH BEAR	23-13BG	Protective	\$12,000
WYW140575	4901929664	SOUTH BEAR	32-12BG	Protective	\$12,000
WYW140575	4901929666	SOUTH BEAR	32-13BG	Protective	\$12,000
WYW140575	4901929230	SOUTH BEAR	34-12BG	Protective	\$12,000
WYW140575	4901929667	SOUTH BEAR	34-13BG	Protective	\$12,000
WYW140575	4901929229	SOUTH BEAR	41-12BG	Protective	\$12,000
WYW140575	4901929228	SOUTH BEAR	41-13BG	Protective	\$12,000
WYW140575	4901929227	SOUTH BEAR	43-12BG	Protective	\$12,000
WYW140575	4901929668	SOUTH BEAR	43-13BG	Protective	\$12,000
WYW140575	4901929264	SOUTH BEAR TEAR DROP	12-24BG	Protective	\$12,000
WYW140575	4901929265	SOUTH BEAR TEAR DROP	21-24BG	Protective	\$12,000
WYW140575	4901929679	SOUTH BEAR TEAR DROP	32-11BG*	Protective	\$12,000
WYW140575	4901929226	SOUTH BEAR TEAR DROP	32-14BG	Protective	\$12,000
WYW140575	4901929225	SOUTH BEAR TEAR DROP	32-24BG	Protective	\$12,000
WYW140575	4901929222	SOUTH BEAR TEAR DROP	41-14BG	Protective	\$12,000
WYW140575	4901923208	SOUTH BEAR TEAR DROP	41-24BG	Protective	\$12,000
WYW140577	4901926480	BEAR DRAW UNIT BDU FEDERAL	33-12BG	Protective	\$5,000
WYW140577	4901925158	BEAR DRAW UNIT BDU	23-1BG	Protective	\$12,000
WYW140577	4901925160	BEAR DRAW UNIT BDU	32-2BG	Protective	\$12,000
WYW140577	4901925156	BEAR DRAW UNIT BDU FEDERAL	12-2BG	Protective	\$12,000
WYW140577	4901925149	BEAR DRAW UNIT BDU FEDERAL	41-1BG	Protective	\$12,000
WYW140577	4901926148	BEAR DRAW UNIT BETA BDU	34-15BG	Protective	\$12,000
WYW140577	4901925144	MW BEAR DRAW UNIT BDU	12-1BG*	Protective	\$12,000
WYW140577	4901929211	BEAR DRAW GAMMA BDU	43-27	Protective	\$12,000
WYW140577	4901929261	BEAR DRAW GAMMA BDU	43-35	Protective	\$12,000
WYW140577	4901929262	BEAR DRAW GAMMA BDU	44-35	Protective	\$12,000
WYW140577	4901925145	BEAR DRAW UNIT BDU	32-1BG	Protective	\$12,000
WYW140577	4901925148	BEAR DRAW UNIT BDU	34-12BG	Protective	\$12,000
WYW140577	4901925162	BEAR DRAW UNIT BDU	43-12BG	Protective	\$12,000
WYW140577	4901925150	BEAR DRAW UNIT BDU	43-1BG	Protective	\$12,000
WYW140577	4901925152	BEAR DRAW UNIT BDU	43-2BG	Protective	\$12,000
WYW140577	4901926482	BEAR DRAW UNIT BDU FEDERAL	11-1BG	Protective	\$12,000
WYW140577	4901925143	BEAR DRAW UNIT BDU FEDERAL	12-12BG	Protective	\$12,000
WYW140577	4901925147	BEAR DRAW UNIT BDU FEDERAL	23-12BG	Protective	\$12,000
WYW140577	4901925146	BEAR DRAW UNIT BDU FEDERAL	23-2BG	Protective	\$12,000
WYW140577	4901926754	BEAR DRAW UNIT BDU FEDERAL	33-12BGR	Protective	\$12,000
WYW140577	4901925151	BEAR DRAW UNIT BDU FEDERAL	41-2BG	Protective	\$12,000
WYW140577	4901926481	BEAR DRAW UNIT BDU FEDERAL	44-2BG	Protective	\$12,000
WYW140577	4901926167	BEAR DRAW UNIT BETA BDU	12-13BG*	Protective	\$12,000
WYW140577	4901926732	BEAR DRAW UNIT BETA BDU	31-13BG	Protective	\$12,000
WYW140577	4901926163	BEAR DRAW UNIT BETA BDU	32-13BG	Protective	\$12,000
WYW140577	4901926146	BEAR DRAW UNIT BETA BDU	33-15BG	Protective	\$12,000
WYW140577	4901926161	BEAR DRAW UNIT BETA BDU	41-13BG	Protective	\$12,000
WYW140577	4901926173	BEAR DRAW UNIT BETA BDU	41-14BG	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW140577	4901926160	BEAR DRAW UNIT BETA BDU	43-13BG	Protective	\$12,000
WYW140577	4901926153	BEAR DRAW UNIT BETA BDU	43-14BG	Protective	\$12,000
WYW140577	4901926154	BEAR DRAW UNIT BETA BDU	44-14BG	Protective	\$12,000
WYW140577	4901926159	BEAR DRAW UNIT BETA BDU FED	12-14BG	Protective	\$12,000
WYW140577	4901926152	BEAR DRAW UNIT BETA BDU FED	12-15BG	Protective	\$12,000
WYW140577	4901926166	BEAR DRAW UNIT BETA BDU FED	14-13BG	Protective	\$12,000
WYW140577	4901926157	BEAR DRAW UNIT BETA BDU FED	21-14BG	Protective	\$12,000
WYW140577	4901926164	BEAR DRAW UNIT BETA BDU FED	23-13BG	Protective	\$12,000
WYW140577	4901926155	BEAR DRAW UNIT BETA BDU FED	32-14BG	Protective	\$12,000
WYW140577	4901926149	BEAR DRAW UNIT BETA BDU FED	32-15BG	Protective	\$12,000
WYW140577	4901926162	BEAR DRAW UNIT BETA BDU FED	34-13BG	Protective	\$12,000
WYW140577	4901926147	BEAR DRAW UNIT BETA BDU FED	41-15BG	Protective	\$12,000
WYW140577	4901925141	BEAR DRAW UNIT BDU	14-12BG	Protective	\$25,000
WYW140723	4900558048	DRY WILLOW 1	24-12	Protective	\$12,000
WYW140723	4900558050	DRY WILLOW 1	24-21	Protective	\$12,000
WYW140724	4901924973	POWDER VALLEY ADD ARNDT	14-24WR	Protective	\$12,000
WYW140724	4901924975	POWDER VALLEY ADD ARNDT	34-24WR	Protective	\$12,000
WYW140724	4901924974	POWDER VALLEY ADD FEDERAL	23-24WR	Protective	\$12,000
WYW140724	4901928650	POWDER VALLEY U DELTA FADDIS-K	32-23	Protective	\$12,000
WYW140724	4901928646	POWDER VALLEY U DELTA FEDERAL	24-Dec	Protective	\$12,000
WYW140724	4901928648	POWDER VALLEY U DELTA RUBY	34-23	Protective	\$12,000
WYW140724	4901928647	POWDER VALLEY U DELTA RUBY	43-23	Protective	\$12,000
WYW140724	4901929566	POWDER VALLEY UNIT EPSILON	14-13	Protective	\$12,000
WYW140724	4901929456	POWDER VALLEY UNIT EPSILON	41-23	Protective	\$12,000
WYW140773	4900540747	USFS FEDERAL	23-22	Protective	\$5,000
WYW140773	4900532348	USFS FEDERAL	14-22	Protective	\$5,000
WYW140773	4900532347	USFS FEDERAL (STRAT)	23-22	Protective	\$5,000
WYW140777	4900551656	ANTELOPE II P LITTON	12-24CA	Protective	\$5,000
WYW140777	4900551657	ANTELOPE II P LITTON	14-24CA	Protective	\$5,000
WYW140777	4900551659	ANTELOPE II P LITTON	23-24CA	Protective	\$5,000
WYW140777	4900554582	ANTELOPE II P LITTON	32-13CA	Protective	\$5,000
WYW140777	4900551661	ANTELOPE II P LITTON	32-24CA	Protective	\$5,000
WYW140777	4900554581	ANTELOPE II P LITTON	34-13CA	Protective	\$5,000
WYW140777	4900554562	ANTELOPE II P LITTON	41-13CA	Protective	\$5,000
WYW140777	4900554563	ANTELOPE II P LITTON	43-13CA	Protective	\$5,000
WYW140777	4900551662	ANTELOPE II P LITTON	43-24CA	Protective	\$5,000
WYW140777	4900560893	PROJECT 785 ARBALEST	11-24H	Protective	\$125,000
WYW140811	4901922921	KINGSBURY KU HARRIET L&L	32-27	Protective	\$12,000
WYW140811	4901922915	KINGSBURY KU HARRIET L&L	34-27	Protective	\$12,000
WYW140811	4901922916	KINGSBURY KU HARRIET L&L	41-27	Protective	\$12,000
WYW140811	4901922917	KINGSBURY KU HARRIET L&L	43-27	Protective	\$12,000
WYW140813	4901924338	GOLDEN EAGLE JDFU	14G-298*	Protective	\$12,000
WYW140813	4901924344	GOLDEN EAGLE JDFU	23G-298	Protective	\$12,000
WYW140939	4900540744	USFS FEDERAL	34-21	Protective	\$5,000
WYW140939	4900540745	USFS FEDERAL	43-21	Protective	\$5,000
WYW140939	4900532346	USFS FEDERAL (STRAT)	34-21	Protective	\$5,000
WYW140939	4900532345	USFS FEDERAL (STRAT)	43-21	Protective	\$5,000
WYW140940	4900532604	USFS FEDERAL	25-Nov	Protective	\$5,000
WYW140940	4900533367	USFS FEDERAL	25-Dec	Protective	\$5,000
WYW140940	4900531964	USFS FEDERAL	14-23	Protective	\$5,000
WYW140940	4900532603	USFS FEDERAL	22-25	Protective	\$5,000
WYW140940	4900532593	USFS FEDERAL	31-35	Protective	\$5,000
WYW140940	4900533456	USFS FEDERAL	32-26	Protective	\$5,000
WYW140940	4900533368	USFS FEDERAL	32-35	Protective	\$5,000
WYW140940	4900531966	USFS FEDERAL	34-23	Protective	\$5,000
WYW140940	4900533364	USFS FEDERAL	34-26	Protective	\$5,000
WYW140940	4900533363	USFS FEDERAL	41-35	Protective	\$5,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW140940	4900532599	USFS FEDERAL	42-26	Protective	\$5,000
WYW140940	4900532606	USFS FEDERAL	42-35	Protective	\$5,000
WYW140940	4900533362	USFS FEDERAL	43-26	Protective	\$5,000
WYW140940	4900532605	USFS FEDERAL	43-35	Protective	\$5,000
WYW140940	4900532598	USFS FEDERAL	44-26	Protective	\$5,000
WYW140940	4900531962	USFS FEDERAL	21-25	Protective	\$5,000
WYW140940	4900531961	USFS FEDERAL	32-25	Protective	\$5,000
WYW140940	4900531960	USFS FEDERAL	41-25	Protective	\$5,000
WYW140940	4900531963	USFS STRAT	12-25S	Protective	\$5,000
WYW140940	4900531965	USFS STRAT	24-23S	Protective	\$5,000
WYW140940	4900531957	USFS STRAT	32-26S	Protective	\$5,000
WYW140940	4900532342	USFS STRAT	32-35S	Protective	\$5,000
WYW140940	4900532344	USFS STRAT	34-26S	Protective	\$5,000
WYW140940	4900532341	USFS STRAT	41-35S	Protective	\$5,000
WYW140940	4900532343	USFS STRAT	43-26S	Protective	\$5,000
WYW140940	4900599001	USFS STRAT FEDERAL	21-25S	Protective	\$5,000
WYW140940	4900599002	USFS STRAT FEDERAL	32-25S	Protective	\$5,000
WYW140940	4900599003	USFS STRAT FEDERAL	41-25S	Protective	\$5,000
WYW141002	4901923619	RUBY CRAZY WOMAN FEDERAL	1408	Protective	\$12,000
WYW141002	4901923635	RUBY CRAZY WOMAN FEDERAL	1207	Protective	\$12,000
WYW141002	4901923618	RUBY CRAZY WOMAN FEDERAL	1208	Protective	\$12,000
WYW141002	4901923610	RUBY CRAZY WOMAN FEDERAL	1407	Protective	\$12,000
WYW141002	4901923612	RUBY CRAZY WOMAN FEDERAL	2107	Protective	\$12,000
WYW141002	4901923620	RUBY CRAZY WOMAN FEDERAL	2108	Protective	\$12,000
WYW141002	4901923613	RUBY CRAZY WOMAN FEDERAL	2307	Protective	\$12,000
WYW141002	4901923621	RUBY CRAZY WOMAN FEDERAL	2308	Protective	\$12,000
WYW141002	4901923614	RUBY CRAZY WOMAN FEDERAL	3207	Protective	\$12,000
WYW141002	4901923622	RUBY CRAZY WOMAN FEDERAL	3208	Protective	\$12,000
WYW141002	4901923628	RUBY CRAZY WOMAN FEDERAL	3217	Protective	\$12,000
WYW141002	4901923611	RUBY CRAZY WOMAN FEDERAL	3407	Protective	\$12,000
WYW141002	4901923623	RUBY CRAZY WOMAN FEDERAL	3408	Protective	\$12,000
WYW141002	4901923616	RUBY CRAZY WOMAN FEDERAL	4107	Protective	\$12,000
WYW141002	4901923630	RUBY CRAZY WOMAN FEDERAL	4117	Protective	\$12,000
WYW141002	4901923617	RUBY CRAZY WOMAN FEDERAL	4307	Protective	\$12,000
WYW141002	4901923624	RUBY CRAZY WOMAN FEDERAL	4308	Protective	\$12,000
WYW141002	4901923633	RUBY CRAZY WOMAN FEDERAL	4317	Protective	\$12,000
WYW141223	4900550224	GAS DRAW CARSON	21-11W	Protective	\$12,000
WYW141239	4901923054	JUNIPER DRAW UNIT JDFU	21GM-1498	Protective	\$5,000
WYW141239	4901928342	GOLDEN EAGLE JDFU	31M-998	Protective	\$12,000
WYW141239	4901923793	GOLDEN EAGLE JDFU	41G-998	Protective	\$12,000
WYW141239	4901928277	GOLDEN EAGLE JDFU	41M-998	Protective	\$12,000
WYW141239	4901926094	JUNIPER DRAW MERLIN JDFU	12M-1498*	Protective	\$12,000
WYW141239	4901923055	JUNIPER DRAW UNIT JDFU	12G-1498*	Protective	\$12,000
WYW141418	4901928651	POWDER VALLEY U DELTA PVU	31-24	Protective	\$12,000
WYW141418	4901928649	POWDER VALLEY U DELTA PVU	32-24	Protective	\$12,000
WYW141418	4901928608	POWDER VALLEY U DELTA PVU	41-24	Protective	\$12,000
WYW141663	4901921893	JUNIPER DRAW CBM JDFU	14G-1498	Protective	\$12,000
WYW141663	4901906457	MW JUNIPER DRAW CBM STRANAHAN	14MG-1498	Protective	\$12,000
WYW141663	4901906352	MW JUNIPER DRAW CBM STRANAHAN	14MS-1498	Protective	\$12,000
WYW141663	4901987903	MW JUNIPER DRAW SHALLOW	SAND MW	Protective	\$12,000
WYW141663	4901923792	GOLDEN EAGLE JDFU	34G-998	Protective	\$12,000
WYW141663	4901928278	GOLDEN EAGLE JDFU	34M-998	Protective	\$12,000
WYW141663	4901923794	GOLDEN EAGLE JDFU	43G-998	Protective	\$12,000
WYW141663	4901928276	GOLDEN EAGLE JDFU	43M-998	Protective	\$12,000
WYW141663	4901921892	JUNIPER DRAW CBM JDFU	13G-1498	Protective	\$12,000
WYW141663	4901926098	JUNIPER DRAW MERLIN JDFU	13M-1498	Protective	\$12,000
WYW141663	4901923053	JUNIPER DRAW UNIT JDFU	23G-1498	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW142087	4901927238	RUBY EXP CRAZY WOMAN	3211R	Protective	\$12,000
WYW142087	4901924828	RUBY EXP CRAZY WOMAN FED	14-11	Protective	\$12,000
WYW142087	4901924831	RUBY EXP CRAZY WOMAN FED		2111 Protective	\$12,000
WYW142087	4901924835	RUBY EXP CRAZY WOMAN	34-11	Protective	\$12,000
WYW142087	4901924833	RUBY EXP CRAZY WOMAN		4111 Protective	\$12,000
WYW142087	4901924829	RUBY EXP CRAZY WOMAN		4311 Protective	\$12,000
WYW142087	4901924832	RUBY EXP CRAZY WOMAN FED	1211*	Protective	\$12,000
WYW142087	4901924834	RUBY EXP CRAZY WOMAN FED		2311 Protective	\$12,000
WYW142088	4901927265	STEWART DRAW	21-1*	Protective	\$5,000
WYW142088	4901929056	STEWART DRAW BETA	41-11	Protective	\$12,000
WYW142091	4901928641	QUARTER CIRCLE 9 BETA FED		23-Nov Protective	\$5,000
WYW142091	4901928626	QUARTER CIRCLE 9 BETA FED		14-Dec Protective	\$5,000
WYW142091	4901928612	QUARTER CIRCLE 9 BETA FED		24-Dec Protective	\$5,000
WYW142091	4901928627	QUARTER CIRCLE 9 BETA FED	13-14	Protective	\$5,000
WYW142091	4901928613	QUARTER CIRCLE 9 BETA FED	13-24	Protective	\$5,000
WYW142091	4901928620	QUARTER CIRCLE 9 BETA FED	14-13	Protective	\$5,000
WYW142091	4901928643	QUARTER CIRCLE 9 BETA FED	21-23	Protective	\$5,000
WYW142091	4901928628	QUARTER CIRCLE 9 BETA FED	22-14	Protective	\$5,000
WYW142091	4901928622	QUARTER CIRCLE 9 BETA FED	23-13	Protective	\$5,000
WYW142091	4901928683	QUARTER CIRCLE 9 BETA FED	23-24	Protective	\$5,000
WYW142091	4901928623	QUARTER CIRCLE 9 BETA FED	24-13	Protective	\$5,000
WYW142091	4901928630	QUARTER CIRCLE 9 BETA FED	31-14	Protective	\$5,000
WYW142091	4901928615	QUARTER CIRCLE 9 BETA FED	31-24	Protective	\$5,000
WYW142091	4901928631	QUARTER CIRCLE 9 BETA FED	32-14	Protective	\$5,000
WYW142091	4901928645	QUARTER CIRCLE 9 BETA FED	32-23	Protective	\$5,000
WYW142091	4901928616	QUARTER CIRCLE 9 BETA FED	32-24	Protective	\$5,000
WYW142091	4901928617	QUARTER CIRCLE 9 BETA FED	34-24	Protective	\$5,000
WYW142091	4901928610	QUARTER CIRCLE 9 BETA FED	41-23	Protective	\$5,000
WYW142091	4901928633	QUARTER CIRCLE 9 BETA FED	42-14	Protective	\$5,000
WYW142091	4901928618	QUARTER CIRCLE 9 BETA FED	43-24	Protective	\$5,000
WYW142091	4901928642	QUARTER CIRCLE 9 BETA FED	14-23	Protective	\$12,000
WYW142091	4901928614	QUARTER CIRCLE 9 BETA FED	14-24	Protective	\$12,000
WYW142091	4901928644	QUARTER CIRCLE 9 BETA FED	23-23	Protective	\$12,000
WYW142091	4901928609	QUARTER CIRCLE 9 BETA FED	34-23	Protective	\$12,000
WYW142091	4901928611	QUARTER CIRCLE 9 BETA FED	44-23	Protective	\$12,000
WYW142092	4901927762	QUARTER CIRCLE 9	32-27	Protective	\$5,000
WYW142092	4901927019	QUARTER CIRCLE 9	33-22*	Protective	\$5,000
WYW142092	4901928639	QUARTER CIRCLE 9 BETA		22-Nov Protective	\$5,000
WYW142092	4901928634	QUARTER CIRCLE 9 BETA		15-Dec Protective	\$5,000
WYW142092	4901928657	QUARTER CIRCLE 9 BETA		22-Dec Protective	\$5,000
WYW142092	4901928635	QUARTER CIRCLE 9 BETA	14-15	Protective	\$5,000
WYW142092	4901928636	QUARTER CIRCLE 9 BETA	21-15	Protective	\$5,000
WYW142092	4901928751	QUARTER CIRCLE 9 BETA	23-15	Protective	\$5,000
WYW142092	4901928640	QUARTER CIRCLE 9 BETA	31-22	Protective	\$5,000
WYW142092	4901928637	QUARTER CIRCLE 9 BETA	32-15	Protective	\$5,000
WYW142092	4901928659	QUARTER CIRCLE 9 BETA	41-15	Protective	\$5,000
WYW142092	4901928754	QUARTER CIRCLE 9 BETA	43-15	Protective	\$5,000
WYW142092	4901927759	QUARTER CIRCLE 9	14-27	Protective	\$12,000
WYW142092	4901927025	QUARTER CIRCLE 9	23-34	Protective	\$12,000
WYW142092	4901926977	QUARTER CIRCLE 9	24-27	Protective	\$12,000
WYW142092	4901926970	QUARTER CIRCLE 9	31-34	Protective	\$12,000
WYW142092	4901928012	QUARTER CIRCLE 9	34-22	Protective	\$12,000
WYW142092	4901927062	QUARTER CIRCLE 9	42-34	Protective	\$12,000
WYW142092	4901927760	QUARTER CIRCLE 9	43-27	Protective	\$12,000
WYW142092	4901926968	QUARTER CIRCLE 9	43-34	Protective	\$12,000
WYW142092	4901927016	QUARTER CIRCLE 9	44-27	Protective	\$12,000
WYW142092	4901926979	QUARTER CIRCLE 9 FED	12/27/5179	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW142092	4901927761	QUARTER CIRCLE 9 FED	41-27-5179	Protective	\$12,000
WYW142092	4901926987	QUARTER CIRCLE 9 FED	44-22-5179	Protective	\$12,000
WYW142092	4901926969	QUARTER CIRCLE 9	34-34	Protective	\$12,000
WYW142095	4901926981	QUARTER CIRCLE 9 BETA FED	42-25-5179	Protective	\$12,000
WYW142095	4901926985	QUARTER CIRCLE 9		25-Nov Protective	\$12,000
WYW142095	4901928010	QUARTER CIRCLE 9		26-Dec Protective	\$12,000
WYW142095	4901926986	QUARTER CIRCLE 9	13-25	Protective	\$12,000
WYW142095	4901926975	QUARTER CIRCLE 9	13-26	Protective	\$12,000
WYW142095	4901926984	QUARTER CIRCLE 9	22-25	Protective	\$12,000
WYW142095	4901926974	QUARTER CIRCLE 9	22-26	Protective	\$12,000
WYW142095	4901927021	QUARTER CIRCLE 9	31-26	Protective	\$12,000
WYW142095	4901926972	QUARTER CIRCLE 9	33-26	Protective	\$12,000
WYW142095	4901928009	QUARTER CIRCLE 9	34-26	Protective	\$12,000
WYW142095	4901926971	QUARTER CIRCLE 9	42-26	Protective	\$12,000
WYW142095	4901926967	QUARTER CIRCLE 9	14-35	Protective	\$12,000
WYW142095	4901927027	QUARTER CIRCLE 9	22-35	Protective	\$12,000
WYW142095	4901926966	QUARTER CIRCLE 9	23-35	Protective	\$12,000
WYW142095	4901926983	QUARTER CIRCLE 9	24-25	Protective	\$12,000
WYW142095	4901926965	QUARTER CIRCLE 9	31-35	Protective	\$12,000
WYW142095	4901928011	QUARTER CIRCLE 9	34-25	Protective	\$12,000
WYW142095	4901927061	QUARTER CIRCLE 9	34-35	Protective	\$12,000
WYW142095	4901926964	QUARTER CIRCLE 9	41-35	Protective	\$12,000
WYW142095	4901926963	QUARTER CIRCLE 9	43-35	Protective	\$12,000
WYW142095	4901927017	QUARTER CIRCLE 9	44-26	Protective	\$12,000
WYW142771	4900561322	PROJECT 808 CROSSBOW	53-18H	Protective	\$125,000
WYW142772	4900550922	ANTELOPE BRIDLE BIT	32-31	Protective	\$5,000
WYW142772	4900550923	ANTELOPE BRIDLE BIT	34-31	Protective	\$5,000
WYW142772	4900550924	ANTELOPE BRIDLE BIT	41-31	Protective	\$5,000
WYW142772	4900550925	ANTELOPE BRIDLE BIT	43-31	Protective	\$5,000
WYW142772	4900560888	PROJECT 785 CROSSBOW	20-06H	Protective	\$125,000
WYW142789	4900554549	ANTELOPE II P LITTON	32-14CA	Protective	\$5,000
WYW142789	4900554548	ANTELOPE II P LITTON	34-14CA	Protective	\$5,000
WYW142789	4900561191	PROJECT 808 ARBALEST	42-14H	Protective	\$125,000
WYW142836	4900559951	CLABAUGH	12-10WA	Protective	\$12,000
WYW142836	4900559945	CLABAUGH	12-14WA	Protective	\$12,000
WYW142836	4900559950	CLABAUGH	14-10WA	Protective	\$12,000
WYW142836	4900559947	CLABAUGH	14-11WA	Protective	\$12,000
WYW142836	4900559942	CLABAUGH	32-15WA	Protective	\$12,000
WYW142836	4900559949	CLABAUGH	34-10WA	Protective	\$12,000
WYW142836	4900559944	CLABAUGH	14-14WA	Protective	\$12,000
WYW142836	4900559943	CLABAUGH	21-15WA	Protective	\$12,000
WYW142845	4901926151	WEST BEAR DRAW BDU	14-15	Protective	\$12,000
WYW142845	4901929198	BEAR DRAW GAMMA BDU	13-26	Protective	\$12,000
WYW142845	4901929200	BEAR DRAW GAMMA BDU	23-26	Protective	\$12,000
WYW142845	4901929201	BEAR DRAW GAMMA BDU	32-26	Protective	\$12,000
WYW142845	4901929202	BEAR DRAW GAMMA BDU	34-26	Protective	\$12,000
WYW142845	4901929203	BEAR DRAW GAMMA BDU	41-26	Protective	\$12,000
WYW142845	4901929204	BEAR DRAW GAMMA BDU	43-26	Protective	\$12,000
WYW142845	4901926150	BEAR DRAW UNIT BETA BDU	24-15BG	Protective	\$12,000
WYW143349	4901926790	KINGSBURY III KU	41-6	Protective	\$5,000
WYW143349	4901926755	KINGSBURY III KU		5-Dec Protective	\$12,000
WYW143349	4901926759	KINGSBURY III KU	21-5	Protective	\$12,000
WYW143349	4901926778	KINGSBURY III KU	21-6	Protective	\$12,000
WYW143349	4901926781	KINGSBURY III KU	23-6	Protective	\$12,000
WYW143349	4901926785	KINGSBURY III KU	32-6	Protective	\$12,000
WYW143349	4901926766	KINGSBURY III KU	34-5	Protective	\$12,000
WYW143349	4901926775	KINGSBURY III KU	43-5	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW143349	4901926794	KINGSBURY III KU	43-6	Protective	\$12,000
WYW143349	4901928367	KINGSBURY IV KU	23-17	Protective	\$12,000
WYW143510	4900544716	ROCHELLE LAKE STUART	14-34-4471	Protective	\$5,000
WYW143510	4900546025	SAGER CY FEDERAL	14-30 4471	Protective	\$5,000
WYW143510	4900546036	SAGER CY STUART	12-30 4471	Protective	\$5,000
WYW143510	4900546035	SAGER CY STUART	21-30 4471	Protective	\$5,000
WYW143510	4900546034	SAGER CY STUART	23-30 4471	Protective	\$5,000
WYW143510	4900546020	SAGER CY STUART	32-30 4471	Protective	\$5,000
WYW143510	4900546028	SAGER CY STUART	34-30 4471	Protective	\$5,000
WYW143510	4900546027	SAGER CY STUART	41-30 4471	Protective	\$5,000
WYW143510	4900546026	SAGER CY STUART	43-30 4471	Protective	\$5,000
WYW143523	4900562329	DILTS FED	24-30TH	Protective	\$125,000
WYW143523	4900564437	DILTS FEDERAL 14-30 PH	14-30-19 PH	Protective	\$125,000
WYW143523	4900564438	DILTS FEDERAL 14-30-19TH	14-30-19TH	Protective	\$125,000
WYW143527	4900548035	LITTLE THUNDER EDWARDS	32-13-4372	Protective	\$5,000
WYW143527	4900548034	LITTLE THUNDER EDWARDS	41-13-4372	Protective	\$5,000
WYW143529	4900545989	S HAY CREEK STUART	41-25 4472	Protective	\$5,000
WYW143531	4900548032	HOE CREEK NORTH DAVIS	12/30/4772	Protective	\$5,000
WYW143533	4900532619	APPEL FED	32-19	Protective	\$5,000
WYW143537	4900545831	WILD HORSE CREEK HOWELL	41-6	Protective	\$5,000
WYW143537	4900545827	WILD HORSE CREEK MCBETH	32-30	Protective	\$5,000
WYW143537	4900545839	WILD HORSE CREEK RASSBACH	29-Dec	Protective	\$5,000
WYW143539	4900550701	S PLEASANTVILLE I MCBETH	32-25BG	Protective	\$5,000
WYW143539	4900550702	S PLEASANTVILLE I MCBETH	34-25BG	Protective	\$5,000
WYW143539	4900550703	S PLEASANTVILLE I MCBETH	41-25BG	Protective	\$5,000
WYW143539	4900549692	S PLEASANTVILLE I MCBETH	43-25	Protective	\$5,000
WYW143539	4900550704	S PLEASANTVILLE I MCBETH	43-25BG	Protective	\$5,000
WYW143539	4900545826	WILD HORSE CREEK MCBETH	31-Dec	Protective	\$5,000
WYW143539	4900545829	WILD HORSE CREEK MCBETH	14-30BG	Protective	\$5,000
WYW143539	4900545824	WILD HORSE CREEK MCBETH	21-31	Protective	\$5,000
WYW143539	4900545828	WILD HORSE CREEK MCBETH	23-30	Protective	\$5,000
WYW143539	4900545823	WILD HORSE CREEK SCHLAUTMANN	23-31	Protective	\$5,000
WYW143539	4900545825	WILD HORSE CREEK SCHLAUTMANN	14-31	Protective	\$5,000
WYW143540	4900535245	CABALLO CR DAVIS	42-10-4773	Protective	\$5,000
WYW143541	4900535526	3 MILE CREEK PERSSON FED	21-34-4773	Protective	\$5,000
WYW143541	4900535525	3 MILE CREEK PERSSON FED	32-34-4773	Protective	\$5,000
WYW143541	4900535855	HOE CREEK SOUTH DAVIS FED	23-26	Protective	\$5,000
WYW143541	4900535982	HOE CREEK SOUTH DAVIS FED	43-22	Protective	\$5,000
WYW143541	4900535521	HOE CREEK SOUTH GEER FED	14-22	Protective	\$5,000
WYW143541	4900535408	HOE CREEK SOUTH VON MINDEN	34-23	Protective	\$5,000
WYW143541	4900535527	3 MILE CREEK PERSSON FED	12-34-4773	Protective	\$12,000
WYW143541	4900535528	3 MILE CREEK PERSSON FED	41-34-4773	Protective	\$12,000
WYW143545	4900542027	BONEPILE II GEER FED	32-13	Protective	\$5,000
WYW143545	4900542028	BONEPILE II GEER FED	32-21	Protective	\$5,000
WYW143545	4900532672	FEDERAL	29-42	Protective	\$5,000
WYW143545	4900535893	SQUAIRES	29-21	Protective	\$5,000
WYW143545	4900559547	GEIS	43-29HP	Protective	\$100,000
WYW143552	4900545678	HOE CREEK MCBETH	14-35-4774	Protective	\$5,000
WYW143552	4900549709	S PLEASANTVILLE I HOWELL	21-4	Protective	\$5,000
WYW143552	4900549919	S PLEASANTVILLE II MCBETH	Dec-33	Protective	\$5,000
WYW143552	4900549918	S PLEASANTVILLE II MCBETH FED	41-32	Protective	\$5,000
WYW143552	4900549916	S PLEASANTVILLE II THRONE RNCH	21-32	Protective	\$5,000
WYW143552	4900549917	S PLEASANTVILLE II THRONE RNCH	32-32	Protective	\$5,000
WYW143553	4900552324	BEAVER CK NISSELIUS RANCH	23-6	Protective	\$12,000
WYW143569	4901924357	HARRIER JDFU	12G-398	Protective	\$12,000
WYW143569	4901924361	HARRIER JDFU	21G-398	Protective	\$12,000
WYW143569	4901924370	HARRIER JDFU	34G-398	Protective	\$12,000

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WYW143569	4901924372	HARRIER JDFU	43G-398	Protective	\$12,000
WYW143569	4901929826	FEDERAL	24-3-4978SH	Protective	\$125,000
WYW143952	4900555136	E SQUAW CREEK FEDERAL SS	12WP-26	Protective	\$5,000
WYW143952	4900553848	W SQUAW CREEK FED OS	16CC-20*	Protective	\$5,000
WYW143952	4900553849	W SQUAW CREEK FED OS	16WP-20	Protective	\$5,000
WYW143952	4900553855	W SQUAW CREEK FED SS	13CC-29	Protective	\$5,000
WYW143952	4900553856	W SQUAW CREEK FED SS	13WP-29	Protective	\$5,000
WYW143952	4900553850	W SQUAW CREEK FED SS	3CC-29	Protective	\$5,000
WYW143952	4900553851	W SQUAW CREEK FED SS	3WP-29	Protective	\$5,000
WYW143952	4900556249	W SQUAW CREEK SS	10WP-32	Protective	\$5,000
WYW143952	4900556245	W SQUAW CREEK SS	14CC-29	Protective	\$5,000
WYW143952	4900556248	W SQUAW CREEK SS	2CC	Protective	\$5,000
WYW143952	4900554033	E SQUAW CREEK FED SS	10CC-33	Protective	\$12,000
WYW143952	4900554034	E SQUAW CREEK FED SS	10WP-33	Protective	\$12,000
WYW143952	4900554040	E SQUAW CREEK FED SS	Dec-34	Protective	\$12,000
WYW143952	4900559218	E SQUAW CREEK FED SS	12WP-26R	Protective	\$12,000
WYW143952	4900555109	E SQUAW CREEK FED SS	12WP-35	Protective	\$12,000
WYW143952	4900554038	E SQUAW CREEK FED SS	Jun-34	Protective	\$12,000
WYW143952	4900554031	E SQUAW CREEK FED SS	8CC-33	Protective	\$12,000
WYW143952	4900554032	E SQUAW CREEK FED SS	8WP-33	Protective	\$12,000
WYW143952	4900555138	E SQUAW CREEK FEDERAL SS	10WP-26	Protective	\$12,000
WYW143952	4900554898	E SQUAW CREEK FEDERAL SS	1WP-27	Protective	\$12,000
WYW143952	4900555124	E SQUAW CREEK FEDERAL SS	6WP-26	Protective	\$12,000
WYW143952	4900553857	UAW CREEK FED SS	4CC-33	Protective	\$12,000
WYW143952	4900556246	W SQUAW CREEK SS	14WP-29	Protective	\$12,000
WYW143952	4900554912	W SQUAW CREEK SS	1CC-31	Protective	\$12,000
WYW143952	4900553852	W SQUAW CREEK FED SS	11CC-29	Protective	\$12,000
WYW143952	4900553854	W SQUAW CREEK FED SS	11WP-29	Protective	\$12,000
WYW143952	4900553861	W SQUAW CREEK FED SS	12CC-33	Protective	\$12,000
WYW143952	4900553862	W SQUAW CREEK FED SS	12WP-33	Protective	\$12,000
WYW143952	4900553858	W SQUAW CREEK FED SS	4WP-33	Protective	\$12,000
WYW143952	4900553859	W SQUAW CREEK FED SS	6CC-33	Protective	\$12,000
WYW143952	4900553860	W SQUAW CREEK FED SS	6WP-33	Protective	\$12,000
WYW143952	4900556247	W SQUAW CREEK SS	10CC-32	Protective	\$12,000
WYW143952	4900554911	W SQUAW CREEK SS	1WP-31	Protective	\$12,000
WYW143952	4900556250	W SQUAW CREEK SS	2WP	Protective	\$12,000
WYW143957	4900550187	GAS DRAW HENSLEY	34-22W	Protective	\$5,000
WYW143957	4900550192	GAS DRAW HENSLEY	43-22W	Protective	\$5,000
WYW143957	4900550194	GAS DRAW REED	12-23W	Protective	\$12,000
WYW143957	4900550189	GAS DRAW REED	41-22W	Protective	\$12,000
WYW143957	4900550358	W GAS DRAW BETA C&F RANCH	12-15WA	Protective	\$12,000
WYW143957	4900549152	W GAS DRAW BETA C&F RANCH	14-15W	Protective	\$12,000
WYW143957	4900533179	W GAS DRAW BETA C&F RANCH	21-15W	Protective	\$12,000
WYW143957	4900550179	W GAS DRAW BETA SORENSON RANCH	22-Dec	Protective	\$12,000
WYW143957	4900550182	W GAS DRAW BETA SORENSON RANCH	14-22	Protective	\$12,000
WYW143957	4900550360	W GAS DRAW BETA SORENSON RANCH	21-22	Protective	\$12,000
WYW143957	4900550183	W GAS DRAW BETA SORENSON RANCH	23-22	Protective	\$12,000
WYW143958	4900558721	W GAS DRAW BETA D SPELLMAN	17-Dec	Protective	\$12,000
WYW143958	4900558726	W GAS DRAW BETA D SPELLMAN	21-18	Protective	\$12,000
WYW143958	4900559108	W GAS DRAW BETA D SPELLMAN	23-17	Protective	\$12,000
WYW143958	4900558706	W GAS DRAW BETA D SPELLMAN	23-18	Protective	\$12,000
WYW143958	4900558724	W GAS DRAW BETA D SPELLMAN	34-17	Protective	\$12,000
WYW143958	4900558710	W GAS DRAW BETA D SPELLMAN	34-18	Protective	\$12,000
WYW143958	4900558711	W GAS DRAW BETA D SPELLMAN	43-18	Protective	\$12,000
WYW143958	4900559808	W GAS DRAW BETA SORENSON RANCH	20-Dec	Protective	\$12,000
WYW143958	4900559813	W GAS DRAW BETA SORENSON RANCH	31-19	Protective	\$12,000
WYW143958	4900558725	W GAS DRAW BETA SORENSON RANCH	32-20	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW143958	4900559217	W GAS DRAW BETA SORENSON RANCH	34-20	Protective	\$12,000
WYW143959	4900559115	W GAS DRAW BETA FEDERAL	14-21	Protective	\$12,000
WYW143959	4900559117	W GAS DRAW BETA FEDERAL	23-21	Protective	\$12,000
WYW143959	4900559120	W GAS DRAW BETA SORENSON	21-21	Protective	\$12,000
WYW143959	4900559119	W GAS DRAW BETA SORENSON	41-21	Protective	\$12,000
WYW143959	4900559118	W GAS DRAW BETA SORENSON RANCH	32-21	Protective	\$12,000
WYW143959	4900550227	W GAS DRAW BETA SORENSON RANCH	34-21	Protective	\$12,000
WYW143959	4900550228	W GAS DRAW BETA SORENSON RANCH	43-21	Protective	\$12,000
WYW143960	4900551517	RECLUSE DOUBLE E	03CW-11	Protective	\$5,000
WYW143960	4900559755	RECLUSE DOUBLE E	05CW-11	Protective	\$5,000
WYW143960	4900559754	RECLUSE DOUBLE E	09CW-3	Protective	\$5,000
WYW143960	4900559554	RECLUSE DOUBLE E BARBE	01CW-2	Protective	\$5,000
WYW143960	4900559557	RECLUSE DOUBLE E BARBE	07CW-2	Protective	\$5,000
WYW143960	4900558707	W GAS DRAW BETA RULE TRUST	23-32	Protective	\$12,000
WYW143960	4900559556	RECLUSE DOUBLE E	05CW-2	Protective	\$12,000
WYW143960	4900559756	RECLUSE DOUBLE E	15CW-11	Protective	\$12,000
WYW143960	4900559560	RECLUSE DOUBLE E	15CW-3	Protective	\$12,000
WYW143960	4900558727	W GAS DRAW BETA RULE TRUST	23-31	Protective	\$12,000
WYW143982	4900555236	CEDAR DRAW UNIT I CDU	11-6G	Protective	\$12,000
WYW143982	4900555225	CEDAR DRAW UNIT I CDU	13-5G	Protective	\$12,000
WYW143982	4900555237	CEDAR DRAW UNIT I CDU	13-6G	Protective	\$12,000
WYW143982	4900555240	CEDAR DRAW UNIT I CDU	22-6G	Protective	\$12,000
WYW143982	4900555261	CEDAR DRAW UNIT I CDU	22-8G	Protective	\$12,000
WYW143982	4900555228	CEDAR DRAW UNIT I CDU	24-5G	Protective	\$12,000
WYW143982	4900555265	CEDAR DRAW UNIT I CDU	24-8G	Protective	\$12,000
WYW143982	4900555244	CEDAR DRAW UNIT I CDU	31-6G	Protective	\$12,000
WYW143982	4900555243	CEDAR DRAW UNIT I CDU	31-6W	Protective	\$12,000
WYW143982	4900555267	CEDAR DRAW UNIT I CDU	31-8G	Protective	\$12,000
WYW143982	4900555229	CEDAR DRAW UNIT I CDU	33-5G	Protective	\$12,000
WYW143982	4900555245	CEDAR DRAW UNIT I CDU	33-6G	Protective	\$12,000
WYW143982	4900555251	CEDAR DRAW UNIT I CDU	33-8G	Protective	\$12,000
WYW143982	4900555247	CEDAR DRAW UNIT I CDU	42-6G	Protective	\$12,000
WYW143982	4900555252	CEDAR DRAW UNIT I CDU	42-8G	Protective	\$12,000
WYW143982	4900555233	CEDAR DRAW UNIT I CDU	44-5G	Protective	\$12,000
WYW143982	4900555254	CEDAR DRAW UNIT I CDU FEDERAL	11-8G	Protective	\$12,000
WYW143982	4900555259	CEDAR DRAW UNIT I CDU FEDERAL	13-8G	Protective	\$12,000
WYW143982	4900555253	CEDAR DRAW UNIT I CDU FEDERAL	44-6G	Protective	\$12,000
WYW143983	4900559122	CEDAR DRAW UNIT 2 CDU	11-15SA*	Protective	\$12,000
WYW143983	4900559121	CEDAR DRAW UNIT 2 CDU	11-15WG	Protective	\$12,000
WYW143983	4900559145	CEDAR DRAW UNIT 2 CDU	13-15SA	Protective	\$12,000
WYW143983	4900559147	CEDAR DRAW UNIT 2 CDU	13-15WG	Protective	\$12,000
WYW143983	4900559149	CEDAR DRAW UNIT 2 CDU	22-15SA	Protective	\$12,000
WYW143983	4900559165	CEDAR DRAW UNIT 2 CDU	22-15WG	Protective	\$12,000
WYW143983	4900559163	CEDAR DRAW UNIT 2 CDU	24-15SA	Protective	\$12,000
WYW143983	4900559167	CEDAR DRAW UNIT 2 CDU	24-15WG	Protective	\$12,000
WYW143983	4900559207	CEDAR DRAW UNIT 2 CDU	31-15SA	Protective	\$12,000
WYW143983	4900559199	CEDAR DRAW UNIT 2 CDU	31-15WG	Protective	\$12,000
WYW143983	4900559205	CEDAR DRAW UNIT 2 CDU	33-15SA	Protective	\$12,000
WYW143983	4900559197	CEDAR DRAW UNIT 2 CDU	33-15WG	Protective	\$12,000
WYW143983	4900559203	CEDAR DRAW UNIT 2 CDU	42-15SA	Protective	\$12,000
WYW143983	4900559176	CEDAR DRAW UNIT 2 CDU	42-15WG	Protective	\$12,000
WYW143983	4900559191	CEDAR DRAW UNIT 2 CDU	44-15SA	Protective	\$12,000
WYW143983	4900559188	CEDAR DRAW UNIT 2 CDU	44-15WG	Protective	\$12,000
WYW143983	4900555262	CEDAR DRAW UNIT I CDU	11-9G	Protective	\$12,000
WYW143983	4900555268	CEDAR DRAW UNIT I CDU	22-17G	Protective	\$12,000
WYW143983	4900555271	CEDAR DRAW UNIT I CDU	31-17G	Protective	\$12,000
WYW143983	4900555279	CEDAR DRAW UNIT I CDU	33-17G	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW143983	4900555280	CEDAR DRAW UNIT I CDU	42-17G	Protective	\$12,000
WYW143983	4900555270	CEDAR DRAW UNIT I CDU FEDERAL	24-17G	Protective	\$12,000
WYW143983	4900555275	CEDAR DRAW UNIT I CDU FEDERAL	44-17G	Protective	\$12,000
WYW143983	4900507508	MW CEDAR DRAW UNIT	23-15A-MON	Protective	\$12,000
WYW143983	4900507506	MW CEDAR DRAW UNIT	23-15G-MON	Protective	\$12,000
WYW143983	4900507507	MW CEDAR DRAW UNIT	23-15SD-MON	Protective	\$12,000
WYW143984	4900559202	CEDAR DRAW UNIT 2 CDU	11-21SA	Protective	\$12,000
WYW143984	4900559181	CEDAR DRAW UNIT 2 CDU	11-21WG	Protective	\$12,000
WYW143984	4900559196	CEDAR DRAW UNIT 2 CDU	13-20SA	Protective	\$12,000
WYW143984	4900559179	CEDAR DRAW UNIT 2 CDU	13-20WG	Protective	\$12,000
WYW143984	4900559201	CEDAR DRAW UNIT 2 CDU	13-21SA	Protective	\$12,000
WYW143984	4900559194	CEDAR DRAW UNIT 2 CDU	13-21WG	Protective	\$12,000
WYW143984	4900559210	CEDAR DRAW UNIT 2 CDU	22-21SA	Protective	\$12,000
WYW143984	4900559175	CEDAR DRAW UNIT 2 CDU	22-21WG	Protective	\$12,000
WYW143984	4900559198	CEDAR DRAW UNIT 2 CDU	24-20SA	Protective	\$12,000
WYW143984	4900559192	CEDAR DRAW UNIT 2 CDU	24-20WG	Protective	\$12,000
WYW143984	4900559178	CEDAR DRAW UNIT 2 CDU	24-21SA	Protective	\$12,000
WYW143984	4900559180	CEDAR DRAW UNIT 2 CDU	24-21WG	Protective	\$12,000
WYW143984	4900559183	CEDAR DRAW UNIT 2 CDU	31-21SA	Protective	\$12,000
WYW143984	4900559186	CEDAR DRAW UNIT 2 CDU	31-21WG	Protective	\$12,000
WYW143984	4900559150	CEDAR DRAW UNIT 2 CDU	32-22SA	Protective	\$12,000
WYW143984	4900559151	CEDAR DRAW UNIT 2 CDU	32-22WG	Protective	\$12,000
WYW143984	4900559209	CEDAR DRAW UNIT 2 CDU	33-20SA	Protective	\$12,000
WYW143984	4900559190	CEDAR DRAW UNIT 2 CDU	33-20WG	Protective	\$12,000
WYW143984	4900559189	CEDAR DRAW UNIT 2 CDU	33-21SA	Protective	\$12,000
WYW143984	4900559177	CEDAR DRAW UNIT 2 CDU	33-21WG	Protective	\$12,000
WYW143984	4900559153	CEDAR DRAW UNIT 2 CDU	41-22SA	Protective	\$12,000
WYW143984	4900559155	CEDAR DRAW UNIT 2 CDU	41-22WG	Protective	\$12,000
WYW143984	4900559206	CEDAR DRAW UNIT 2 CDU	42-20SA	Protective	\$12,000
WYW143984	4900559187	CEDAR DRAW UNIT 2 CDU	42-20WG	Protective	\$12,000
WYW143984	4900559208	CEDAR DRAW UNIT 2 CDU	42-21SA	Protective	\$12,000
WYW143984	4900559200	CEDAR DRAW UNIT 2 CDU	42-21WG	Protective	\$12,000
WYW143984	4900559204	CEDAR DRAW UNIT 2 CDU	44-20SA	Protective	\$12,000
WYW143984	4900559184	CEDAR DRAW UNIT 2 CDU	44-20WG	Protective	\$12,000
WYW143984	4900559144	CEDAR DRAW UNIT 2 CDU	44-21SA	Protective	\$12,000
WYW143984	4900559146	CEDAR DRAW UNIT 2 CDU	44-21WG	Protective	\$12,000
WYW143984	4900555278	CEDAR DRAW UNIT I CDU	11-20G	Protective	\$12,000
WYW143984	4900555277	CEDAR DRAW UNIT I CDU	22-20G	Protective	\$12,000
WYW143984	4900555276	CEDAR DRAW UNIT I CDU	31-20G	Protective	\$12,000
WYW143985	4900559157	CEDAR DRAW UNIT 2 CDU	11-28SA	Protective	\$12,000
WYW143985	4900559159	CEDAR DRAW UNIT 2 CDU	11-28WG	Protective	\$12,000
WYW143985	4900559161	CEDAR DRAW UNIT 2 CDU	13-28SA	Protective	\$12,000
WYW143985	4900559164	CEDAR DRAW UNIT 2 CDU	13-28WG	Protective	\$12,000
WYW143985	4900559166	CEDAR DRAW UNIT 2 CDU	22-28SA	Protective	\$12,000
WYW143985	4900559170	CEDAR DRAW UNIT 2 CDU	22-28WG	Protective	\$12,000
WYW143985	4900559160	CEDAR DRAW UNIT 2 CDU	24-28SA	Protective	\$12,000
WYW143985	4900559171	CEDAR DRAW UNIT 2 CDU	24-28WG	Protective	\$12,000
WYW143985	4900559158	CEDAR DRAW UNIT 2 CDU	31-28SA	Protective	\$12,000
WYW143985	4900559172	CEDAR DRAW UNIT 2 CDU	31-28WG	Protective	\$12,000
WYW143985	4900559156	CEDAR DRAW UNIT 2 CDU	33-28SA	Protective	\$12,000
WYW143985	4900559173	CEDAR DRAW UNIT 2 CDU	33-28WG	Protective	\$12,000
WYW143985	4900559154	CEDAR DRAW UNIT 2 CDU	42-28SA	Protective	\$12,000
WYW143985	4900559174	CEDAR DRAW UNIT 2 CDU	42-28WG	Protective	\$12,000
WYW143985	4900559152	CEDAR DRAW UNIT 2 CDU	44-28SA	Protective	\$12,000
WYW143985	4900559142	CEDAR DRAW UNIT 2 CDU	44-28WG	Protective	\$12,000
WYW143986	4900559143	CEDAR DRAW UNIT 2 CDU	31-33SA	Protective	\$12,000
WYW143986	4900559169	CEDAR DRAW UNIT 2 CDU	31-33WG	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW143986	4900559162	CEDAR DRAW UNIT 2 CDU	42-33SA	Protective	\$12,000
WYW143986	4900559168	CEDAR DRAW UNIT 2 CDU	42-33WG	Protective	\$12,000
WYW143989	4900555673	MPU MIDDLEPRONG BLM	4-33ACY	Protective	\$5,000
WYW143989	4900545145	WILD HORSE I SPELLMAN	4-32A	Protective	\$5,000
WYW143990	4900548277	SPOTTEDHORSE REV D ODEGARD	14-8WA	Protective	\$5,000
WYW143990	4900548290	SPOTTEDHORSE REV D ODEGARD	21-9WA	Protective	\$5,000
WYW143990	4900548285	SPOTTEDHORSE REV D ODEGARD	23-2WA	Protective	\$5,000
WYW143990	4900548291	SPOTTEDHORSE REV D ODEGARD	32-9WA	Protective	\$5,000
WYW143990	4900548292	SPOTTEDHORSE REV D ODEGARD	34-9WA	Protective	\$5,000
WYW143990	4900548289	SPOTTEDHORSE REV D ODEGARD	43-8WA	Protective	\$5,000
WYW143990	4900548294	SPOTTEDHORSE REV D&M ODEGARD	43-9WA	Protective	\$5,000
WYW143990	4900548251	SPOTTEDHORSE REV II D ODEGARD	14-5	Protective	\$5,000
WYW143990	4900548288	SPOTTEDHORSE REV M ODEGARD	12-4WA	Protective	\$5,000
WYW143990	4900548254	SPOTTEDHORSE REV M ODEGARD	14-4WA	Protective	\$5,000
WYW143990	4900538579	SPOTTEDHORSE REV M ODEGARD	21-4WA	Protective	\$5,000
WYW143990	4900548236	SPOTTEDHORSE REV M ODEGARD	23-4WA	Protective	\$5,000
WYW143990	4900548261	SPOTTEDHORSE REV M ODEGARD	32-5WA	Protective	\$5,000
WYW143990	4900548269	SPOTTEDHORSE REV M ODEGARD	41-5WA	Protective	\$5,000
WYW143990	4900548274	SPOTTEDHORSE REV M ODEGARD	43-5WA	Protective	\$5,000
WYW143991	4900548258	SPOTTEDHORSE REV D ODEGARD	32-10WA	Protective	\$5,000
WYW143991	4900548263	SPOTTEDHORSE REV D ODEGARD	12-11WA	Protective	\$5,000
WYW143991	4900548248	SPOTTEDHORSE REV D ODEGARD	14-10WA	Protective	\$5,000
WYW143991	4900548266	SPOTTEDHORSE REV D ODEGARD	32-17WA	Protective	\$5,000
WYW143991	4900548268	SPOTTEDHORSE REV D ODEGARD	41-17WA	Protective	\$5,000
WYW143991	4900548250	SPOTTEDHORSE REV D&M ODEGARD	12-10WA	Protective	\$5,000
WYW143991	4900548264	SPOTTEDHORSE REV F OEDEKOVEN	14-11WA	Protective	\$5,000
WYW143991	4900548260	SPOTTEDHORSE REV F OEDEKOVEN	34-10WA	Protective	\$5,000
WYW143991	4900548262	SPOTTEDHORSE REV F OEDEKOVEN	43-10WA	Protective	\$5,000
WYW143991	4900548246	SPOTTEDHORSE REV M ODEGARD	21-10WA	Protective	\$5,000
WYW143991	4900545775	PAINTED PONY L DRAKE	18K-11	Protective	\$5,000
WYW144229	4901924367	HARRIER JDFU	32G-398	Protective	\$12,000
WYW144229	4901924371	HARRIER JDFU	41G-398	Protective	\$12,000
WYW144232	4901928418	BEAR DRAW GAMMA TEAR DROP	14-31	Protective	\$12,000
WYW144232	4901928508	TEAR DROP	34-31	Protective	\$12,000
WYW144232	4901928457	TEAR DROP	43-31	Protective	\$12,000
WYW144484	4900544804	BELLE FOURCHE FLOCCHINI SIMPSO	21-24-4672	Protective	\$5,000
WYW144490	4900556600	HOUSE CREEK N MARQUISS	19S-9	Protective	\$5,000
WYW144490	4900556603	HOUSE CREEK N MARQUISS	20S-5	Protective	\$5,000
WYW144490	4900556599	HOUSE CREEK N MARQUISS	19S-1	Protective	\$5,000
WYW144490	4900561585	VALERIE LITTLE BUFFALO FED	194473-4TH*	Protective	\$125,000
WYW144493	4900534676	CABALLO CR STUDY	12/28/4873	Protective	\$5,000
WYW144493	4900535357	CABALLO CR HEILAND	23-28-4873	Protective	\$5,000
WYW144500	4900553929	ANTLER LOST BULL CS		1 Protective	\$12,000
WYW144500	4900553930	ANTLER LOST BULL CS		2 Protective	\$12,000
WYW144500	4900553949	ANTLER LOST BULL CS		4 Protective	\$12,000
WYW144500	4900558431	SLPU FED	12-3H	Protective	\$125,000
WYW144501	4900553931	ANTLER WAYWARD CS		1 Protective	\$12,000
WYW144501	4900553932	ANTLER WAYWARD CS		3 Protective	\$12,000
WYW144501	4900553950	ANTLER WAYWARD CS		5 Protective	\$12,000
WYW144501	4900558432	SLPU FED	12-10H	Protective	\$125,000
WYW144501	4900558009	SLPU FED	14-3H	Protective	\$125,000
WYW144502	4900552653	SAVAGETON 4 GILBERTZ	21-7BG	Protective	\$5,000
WYW144502	4900552686	SAVAGETON 4 GILBERTZ	41-7BG	Protective	\$5,000
WYW144502	4900553926	ANTLER FOOTLOOSE CS		1 Protective	\$12,000
WYW144502	4900553933	ANTLER FOOTLOOSE CS		3 Protective	\$12,000
WYW144503	4900553202	SAVAGETON II SAVAGETON	43-32	Protective	\$12,000
WYW144503	4900562380	SLPU ADD 2 SLPU FED	44-08H	Protective	\$125,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW144503	4900555481	SLPU FED	12-17H	Protective	\$100,000
WYW144506	4900552130	SAVAGETON I GROVES RANCH	34-19	Protective	\$5,000
WYW144507	4900552715	SAVAGETON I SAVAGETON	34-21	Protective	\$5,000
WYW144508	4900552923	SAVAGETON II SAVAGETON	21-22	Protective	\$5,000
WYW144508	4900555492	SLPU FED	12-22H	Protective	\$125,000
WYW144509	4900552763	SAVAGETON I GEER		26-Dec Protective	\$5,000
WYW144509	4900555347	VINEYARD TROPICAL CS COM		1 Protective	\$5,000
WYW144510	4900552759	SAVAGETON II COLLINSWORTH		29-Dec Protective	\$5,000
WYW144510	4900555195	SAVAGETON II COLLINSWORTH	23-29BG	Protective	\$5,000
WYW144512	4900550694	S PLEASANTVILLE I FEDERAL	32-10BG	Protective	\$5,000
WYW144512	4900550684	S PLEASANTVILLE I MCBETH	14-3BG	Protective	\$5,000
WYW144512	4900550685	S PLEASANTVILLE I MCBETH	23-3BG	Protective	\$5,000
WYW144512	4900550687	S PLEASANTVILLE I MCBETH	43-3BG	Protective	\$5,000
WYW144512	4900550689	S PLEASANTVILLE I PERSSON	12-10BG	Protective	\$5,000
WYW144512	4900550690	S PLEASANTVILLE I PERSSON	21-10BG	Protective	\$5,000
WYW144512	4900550692	S PLEASANTVILLE I PERSSON	23-10BG	Protective	\$5,000
WYW144512	4900550693	S PLEASANTVILLE I PERSSON	34-10BG	Protective	\$5,000
WYW144512	4900550695	S PLEASANTVILLE I PERSSON	41-10BG	Protective	\$5,000
WYW144512	4900550696	S PLEASANTVILLE I PERSSON	43-10BG	Protective	\$5,000
WYW144516	4900550226	GAS DRAW OEDEKOVEN	21-12W	Protective	\$5,000
WYW144516	4900550364	GAS DRAW TARVER	23-25W	Protective	\$5,000
WYW144516	4900550225	GAS DRAW OEDEKOVEN	12-12W	Protective	\$12,000
WYW144517	4900559107	W GAS DRAW BETA D SPELLMAN	32-18	Protective	\$12,000
WYW144534	4900561428	NORTH BUTTE 2 J CHRISTENSEN	32-3	Protective	\$12,000
WYW144535	4900558049	DRY WILLOW 1	24-14	Protective	\$12,000
WYW144535	4900558051	DRY WILLOW 1	24-23	Protective	\$12,000
WYW144550	4901906445	MW KU	33-25 S MON	Protective	\$12,000
WYW144550	4901930388	NALA SE KAYA FED	2-26-1SH*	Protective	\$125,000
WYW144551	4901930131	MIRACLE MILE	34-27 1SH	Protective	\$125,000
WYW145168	4900557468	DRY WILLOW 3	19-21	Protective	\$12,000
WYW145171	4900553807	SAVAGETON 4 PUMPKIN BUTTES	41-27BG	Protective	\$5,000
WYW145174	4900558091	DRY WILLOW 1	29-32	Protective	\$12,000
WYW145175	4900558090	DRY WILLOW 1	29-23	Protective	\$12,000
WYW145176	4900558096	DRY WILLOW 1	31-32	Protective	\$12,000
WYW145176	4900558094	DRY WILLOW 1	31-21	Protective	\$12,000
WYW145176	4900558095	DRY WILLOW 1	31-23	Protective	\$12,000
WYW145176	4900558098	DRY WILLOW 1	31-43	Protective	\$12,000
WYW145531	4900535784	3 MILE CREEK DAVIS FED	34-6-4672	Protective	\$5,000
WYW145531	4900535786	3 MILE CREEK DAVIS FED	43-6-4672	Protective	\$5,000
WYW145532	4900535975	3 MILE CREEK WAGENSEN FED	14-17-4672	Protective	\$5,000
WYW145593	4900560904	HARTZOG DRAW R CHRISTENSEN	43-4*	Protective	\$12,000
WYW145594	4901929591	CULP DRAW R CHRISTENSEN	23-7	Protective	\$12,000
WYW145595	4901926549	KINGWOOD 1 IBERLIN RANCH	14-7	Protective	\$12,000
WYW145595	4901927950	KINGWOOD 1 IBERLIN RANCH		18-Dec Protective	\$12,000
WYW145595	4901928325	KINGWOOD 1 IBERLIN RANCH	12-7R	Protective	\$12,000
WYW145595	4901926539	KINGWOOD 1 IBERLIN RANCH	14-18	Protective	\$12,000
WYW145595	4901926554	KINGWOOD 1 IBERLIN RANCH	14-6	Protective	\$12,000
WYW145596	4900561073	WORMWOOD UNIT 2 WU	21-27	Protective	\$12,000
WYW145596	4900561067	WORMWOOD UNIT 2 WU	32-27	Protective	\$12,000
WYW145596	4900561061	WORMWOOD UNIT 2 WU	41-27	Protective	\$12,000
WYW145596	4900561063	WORMWOOD UNIT 2 WU	41-21	Protective	\$12,000
WYW145596	4900561059	WORMWOOD UNIT 2 WU	42-21	Protective	\$12,000
WYW145596	4900561080	WORMWOOD UNIT 2 WU	43-21	Protective	\$12,000
WYW145596	4900561081	WORMWOOD UNIT 2 WU	43-27	Protective	\$12,000
WYW145597	4900557418	WORMWOOD UNIT 1 WU	32-22	Protective	\$12,000
WYW145597	4900557429	WORMWOOD UNIT 1 WU	41-22	Protective	\$12,000
WYW145599	4901925669	CAT SHADOW GOBLIN CS		4 Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW145599	4901925702	CAT SHADOW GOBLIN CS FEDERAL		2 Protective	\$12,000
WYW145599	4901925668	CAT SHADOW GOBLIN CS FEDERAL		3 Protective	\$12,000
WYW145599	4901925701	CAT SHADOW GOBLIN CS FEDERAL		1 Protective	\$12,000
WYW145616	4901921447	CAT SHADOW BROOM CS FED COM		2 Protective	\$12,000
WYW145616	4901921445	CAT SHADOW BROOM CS FEDERAL	1*	Protective	\$12,000
WYW145616	4901925685	CAT SHADOW BROOM CS FEDERAL		3 Protective	\$12,000
WYW145616	4901924281	KINGSBURY II FEDERAL	12-2*	Protective	\$12,000
WYW145616	4901924282	KINGSBURY II FEDERAL	21-2	Protective	\$12,000
WYW145616	4901924283	KINGSBURY II FEDERAL	32-2	Protective	\$12,000
WYW145616	4901924284	KINGSBURY II FEDERAL	41-2	Protective	\$12,000
WYW145616	4901924034	KINGWOOD 1 FEDERAL	14-1	Protective	\$12,000
WYW145616	4901924031	KINGWOOD 1 FEDERAL	43-1	Protective	\$12,000
WYW145616	4901924097	KINGWOOD 1 IBERLIN RANCH	32-12	Protective	\$12,000
WYW145616	4901924096	KINGWOOD 1 IBERLIN RANCH	34-12	Protective	\$12,000
WYW145616	4901924095	KINGWOOD 1 IBERLIN RANCH	41-12	Protective	\$12,000
WYW145616	4901924094	KINGWOOD 1 IBERLIN RANCH	43-12	Protective	\$12,000
WYW145616	4901924016	KINGWOOD 1 R MCCREARY	32-13	Protective	\$12,000
WYW145616	4901924015	KINGWOOD 1 R MCCREARY	34-13	Protective	\$12,000
WYW145616	4901924014	KINGWOOD 1 R MCCREARY	41-13	Protective	\$12,000
WYW145616	4901924013	KINGWOOD 1 R MCCREARY	43-13	Protective	\$12,000
WYW145617	4901927312	SIGMA TAU ANADARKO FED		Sep-41 Protective	\$5,000
WYW145617	4901924654	KINGSBURY II FEDERAL	34-2	Protective	\$12,000
WYW145617	4901927310	SIGMA TAU ANADARKO FED		Sep-32 Protective	\$12,000
WYW145617	4901925736	CAT SHADOW SPECTER CS COM		5 Protective	\$12,000
WYW145617	4901925732	CAT SHADOW SPECTER CS FEDERAL		1 Protective	\$12,000
WYW145617	4901924289	KINGSBURY II FEDERAL	14-2	Protective	\$12,000
WYW145617	4901924290	KINGSBURY II FEDERAL	21-2	Protective	\$12,000
WYW145617	4901924291	KINGSBURY II FEDERAL	23-2	Protective	\$12,000
WYW145617	4901924293	KINGSBURY II FEDERAL	41-2	Protective	\$12,000
WYW145617	4901927308	SIGMA TAU ANADARKO FED		12-Sep Protective	\$12,000
WYW145617	4901927309	SIGMA TAU ANADARKO FED		21-Sep Protective	\$12,000
WYW145617	4901925733	CAT SHADOW SPECTER CS FED COM		2 Protective	\$12,000
WYW145617	4901925735	CAT SHADOW SPECTER CS COM		4 Protective	\$12,000
WYW145617	4901925737	CAT SHADOW SPECTER CS COM		6 Protective	\$12,000
WYW145617	4901925734	CAT SHADOW SPECTER CS FEDERAL		3 Protective	\$12,000
WYW145619	4901924323	KINGSBURY II HARRIET L&L	32-23	Protective	\$12,000
WYW145619	4901925686	CAT SHADOW CAPE CS FEDERAL		1 Protective	\$12,000
WYW145620	4901925687	CAT SHADOW CAT CS FEDERAL		1 Protective	\$12,000
WYW145620	4901928366	CAT SHADOW CAT CS FEDERAL	2R	Protective	\$12,000
WYW145620	4901925689	CAT SHADOW CAT CS FEDERAL		3 Protective	\$12,000
WYW145620	4901925691	CAT SHADOW CAT CS FEDERAL		5 Protective	\$12,000
WYW145620	4901925690	CAT SHADOW CAT CS FEDERAL		4 Protective	\$12,000
WYW145620	4901925692	CAT SHADOW CAT CS FEDERAL		6 Protective	\$12,000
WYW145620	4901925688	CAT SHADOW CAT FEDERAL INJECTO		Protective	\$20,000
WYW145621	4901923070	KINGSBURY KU	34-34	Protective	\$12,000
WYW145621	4901923065	KINGSBURY KU	41-26	Protective	\$12,000
WYW145621	4901922914	KINGSBURY KU HARRIET L&L	43-26	Protective	\$12,000
WYW145621	4901922924	KINGSBURY KU HARRIET L&L		26-Dec Protective	\$12,000
WYW145621	4901922923	KINGSBURY KU HARRIET L&L	14-26	Protective	\$12,000
WYW145621	4901922922	KINGSBURY KU HARRIET L&L	21-26	Protective	\$12,000
WYW145621	4901922919	KINGSBURY KU HARRIET L&L	23-26	Protective	\$12,000
WYW145621	4901922920	KINGSBURY KU HARRIET L&L	32-26	Protective	\$12,000
WYW145621	4901922918	KINGSBURY KU HARRIET L&L	34-26	Protective	\$12,000
WYW145622	4901924325	KINGSBURY II KU	34-30	Protective	\$12,000
WYW145622	4901924328	KINGSBURY II KU		Dec-32 Protective	\$12,000
WYW145622	4901924329	KINGSBURY II KU	14-32	Protective	\$12,000
WYW145622	4901924330	KINGSBURY II KU	21-32	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW145622	4901924331	KINGSBURY II KU	23-32	Protective	\$12,000
WYW145622	4901924324	KINGSBURY II KU	32-30	Protective	\$12,000
WYW145622	4901924332	KINGSBURY II KU	32-32	Protective	\$12,000
WYW145622	4901924333	KINGSBURY II KU	34-32	Protective	\$12,000
WYW145622	4901924326	KINGSBURY II KU	41-30	Protective	\$12,000
WYW145622	4901924334	KINGSBURY II KU	41-32	Protective	\$12,000
WYW145622	4901924327	KINGSBURY II KU	43-30	Protective	\$12,000
WYW145622	4901924335	KINGSBURY II KU	43-32	Protective	\$12,000
WYW145622	4901923066	KINGSBURY KU	Dec-33	Protective	\$12,000
WYW145622	4901923067	KINGSBURY KU	21-33	Protective	\$12,000
WYW145622	4901923069	KINGSBURY KU	32-33	Protective	\$12,000
WYW145622	4901921778	KINGSBURY KU HARRIET LAND	14-33	Protective	\$12,000
WYW145622	4901921780	KINGSBURY KU HARRIET LAND	34-33	Protective	\$12,000
WYW145622	4901921781	KINGSBURY KU HARRIET LAND	43-33	Protective	\$12,000
WYW145624	4901925862	WDU BETA WILLIAMS DU	32-14WR	Protective	\$12,000
WYW145624	4901925864	WDU BETA WILLIAMS DU	41-14WR	Protective	\$12,000
WYW145624	4901926105	WDU BETA WILLIAMS DU FED	12-10WR	Protective	\$12,000
WYW145624	4901925978	WDU BETA WILLIAMS DU FED	41-10	Protective	\$12,000
WYW145624	4901925856	WDU BETA WILLIAMS DU	12-14WR	Protective	\$12,000
WYW145624	4901925857	WDU BETA WILLIAMS DU	14-14WR	Protective	\$12,000
WYW145624	4901925858	WDU BETA WILLIAMS DU	21-13	Protective	\$12,000
WYW145624	4901925859	WDU BETA WILLIAMS DU	21-14WR	Protective	\$12,000
WYW145624	4901927638	WDU BETA WILLIAMS DU	31-13	Protective	\$12,000
WYW145624	4901925877	WDU BETA WILLIAMS DU	34-14WR	Protective	\$12,000
WYW145624	4901925863	WDU BETA WILLIAMS DU	41-13	Protective	\$12,000
WYW145624	4901926103	WDU BETA WILLIAMS DU FED	21-10WR	Protective	\$12,000
WYW145624	4901925977	WDU BETA WILLIAMS DU FED	23-10WR	Protective	\$12,000
WYW145624	4901925976	WDU BETA WILLIAMS DU FED	32-10WR	Protective	\$12,000
WYW145624	4901925979	WDU BETA WILLIAMS DU FED	43-10WR	Protective	\$12,000
WYW145625	4901924483	RIVER UNIT ALPHA RU	14-27BG	Protective	\$5,000
WYW145625	4901924497	RIVER UNIT ALPHA RU FEDERAL	33-35BG	Protective	\$5,000
WYW145625	4901925839	RIVER UNIT BETA RU FED	23-26BG	Protective	\$5,000
WYW145625	4901924491	RIVER UNIT ALPHA RU	41-27BG	Protective	\$12,000
WYW145625	4901924499	RIVER UNIT ALPHA RU FEDERAL	34-34BG	Protective	\$12,000
WYW145625	4901924501	RIVER UNIT ALPHA RU FEDERAL	43-27BG	Protective	\$12,000
WYW145625	4901925837	RIVER UNIT BETA RU FED	34-26BG	Protective	\$12,000
WYW145625	4901925833	RIVER UNIT BETA RU FED	43-26BG	Protective	\$12,000
WYW145625	4901924481	RIVER UNIT ALPHA RU	12-34BG	Protective	\$12,000
WYW145625	4901924482	RIVER UNIT ALPHA RU	12-35BG	Protective	\$12,000
WYW145625	4901924487	RIVER UNIT ALPHA RU	21-27BG	Protective	\$12,000
WYW145625	4901924502	RIVER UNIT ALPHA RU	21-34BG	Protective	\$12,000
WYW145625	4901924488	RIVER UNIT ALPHA RU	32-27BG	Protective	\$12,000
WYW145625	4901924489	RIVER UNIT ALPHA RU	32-34BG	Protective	\$12,000
WYW145625	4901924492	RIVER UNIT ALPHA RU	41-34BG	Protective	\$12,000
WYW145625	4901924485	RIVER UNIT ALPHA RU FEDERAL	14-34BG	Protective	\$12,000
WYW145625	4901924486	RIVER UNIT ALPHA RU FEDERAL	14-35BG	Protective	\$12,000
WYW145625	4901924503	RIVER UNIT ALPHA RU FEDERAL	21-35BG	Protective	\$12,000
WYW145625	4901924505	RIVER UNIT ALPHA RU FEDERAL	23-34BG	Protective	\$12,000
WYW145625	4901924506	RIVER UNIT ALPHA RU FEDERAL	23-35BG	Protective	\$12,000
WYW145625	4901924498	RIVER UNIT ALPHA RU FEDERAL	34-27BG	Protective	\$12,000
WYW145625	4901924500	RIVER UNIT ALPHA RU FEDERAL	34-35BG	Protective	\$12,000
WYW145625	4901924494	RIVER UNIT ALPHA RU FEDERAL	41-35BG	Protective	\$12,000
WYW145625	4901924507	RIVER UNIT ALPHA RU FEDERAL	43-34BG	Protective	\$12,000
WYW145625	4901924508	RIVER UNIT ALPHA RU FEDERAL	43-35BG	Protective	\$12,000
WYW145625	4901925844	RIVER UNIT BETA RU	12-26BG	Protective	\$12,000
WYW145625	4901925843	RIVER UNIT BETA RU FED	14-26BG	Protective	\$12,000
WYW145625	4901925841	RIVER UNIT BETA RU FED	21-26BG	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost	
WYW145625	4901926063	RIVER UNIT BETA RU FED	24-25BG	Protective	\$12,000	
WYW145625	4901925876	RIVER UNIT BETA RU FED	43-25BG	Protective	\$12,000	
WYW145626	4901928092	RIVER UNIT GAMMA RU	23-32	Protective	\$5,000	
WYW145626	4901928097	RIVER UNIT GAMMA RU	41-31	Protective	\$5,000	
WYW145626	4901928096	RIVER UNIT GAMMA RU	43-31	Protective	\$5,000	
WYW145626	4901928094	RIVER UNIT GAMMA RU	14-32	Protective	\$12,000	
WYW145626	4901928093	RIVER UNIT GAMMA RU	21-32	Protective	\$12,000	
WYW145626	4901928099	RIVER UNIT GAMMA RU	32-31	Protective	\$12,000	
WYW145626	4901928098	RIVER UNIT GAMMA RU	34-31	Protective	\$12,000	
WYW145626	4901928103	RIVER UNIT GAMMA RU		31-Dec	Protective	\$12,000
WYW145626	4901928095	RIVER UNIT GAMMA RU		Dec-32	Protective	\$12,000
WYW145626	4901928102	RIVER UNIT GAMMA RU	14-31	Protective	\$12,000	
WYW145626	4901928100	RIVER UNIT GAMMA RU	23-31	Protective	\$12,000	
WYW145626	4901928101	RIVER UNIT GAMMA RU FEDERAL	21-31	Protective	\$12,000	
WYW145629	4901923804	GOLDEN EAGLE JDFU	14G-1198	Protective	\$12,000	
WYW145629	4901923805	GOLDEN EAGLE JDFU	21G-1198	Protective	\$12,000	
WYW145629	4901923806	GOLDEN EAGLE JDFU	23G-1198	Protective	\$12,000	
WYW145636	4901924578	IBERLIN FEDERAL	4311-4779	Protective	\$5,000	
WYW145636	4901924631	IBERLIN		4111	Protective	\$12,000
WYW145636	4901924575	IBERLIN FEDERAL	2112-4779	Protective	\$12,000	
WYW145636	4901924583	IBERLIN FEDERAL	2312-4779	Protective	\$12,000	
WYW145636	4901927132	IBERLIN FEDERAL	3112-4779	Protective	\$12,000	
WYW145636	4901924582	IBERLIN FEDERAL	4112-4779	Protective	\$12,000	
WYW145636	4901924586	IBERLIN FEDERAL	4312-4779	Protective	\$12,000	
WYW145636	4901929795	MUFASA FED	11-31H	Protective	\$125,000	
WYW145636	4901930666	RUFIOUS FED	44-0113 47-79MH	Protective	\$125,000	
WYW146266	4900541006	EAST FLOCCHINI FLYING T FED	14-31-4671	Protective	\$5,000	
WYW146267	4900535236	DUCK NEST MCCREERY FED		12/27/4972	Protective	\$5,000
WYW146267	4900535237	DUCK NEST MCCREERY FED	14-27-4972	Protective	\$5,000	
WYW146267	4900535239	DUCK NEST MESERVE FEDERAL	41-28-4972	Protective	\$5,000	
WYW146267	4900535240	DUCK NEST MESERVE FEDERAL	43-28-4972	Protective	\$5,000	
WYW146269	4900547791	N HAY CREEK FULLER	32-11	Protective	\$5,000	
WYW146269	4900547793	N HAY CREEK FULLER	41-11	Protective	\$5,000	
WYW146270	4900554104	LONE TREE ADD LATTA	12-7*	Protective	\$5,000	
WYW146270	4900548353	RED TOP DRAW BECK	43-7	Protective	\$5,000	
WYW146285	4900558041	DRY WILLOW 2 T CHAIR	15-14	Protective	\$12,000	
WYW146286	4900558219	SCHOONOVER RD 5 SRU	23-13	Protective	\$5,000	
WYW146286	4900558209	SCHOONOVER RD 5 SRU	43-13	Protective	\$12,000	
WYW146286	4900558168	SCHOONOVER RD 5 SRU	43-2	Protective	\$12,000	
WYW146286	4900550037	SRU 2	41-14	Protective	\$12,000	
WYW146286	4900550036	SRU 2	43-14	Protective	\$12,000	
WYW146286	4900558154	SCHOONOVER RD 5 SRU		2-Dec	Protective	\$12,000
WYW146286	4900558152	SCHOONOVER RD 5 SRU	14-2	Protective	\$12,000	
WYW146286	4900558183	SCHOONOVER RD 5 SRU	21-11	Protective	\$12,000	
WYW146286	4900558157	SCHOONOVER RD 5 SRU	21-2	Protective	\$12,000	
WYW146286	4900558185	SCHOONOVER RD 5 SRU	23-11	Protective	\$12,000	
WYW146286	4900558159	SCHOONOVER RD 5 SRU	23-2	Protective	\$12,000	
WYW146286	4900558191	SCHOONOVER RD 5 SRU	32-11	Protective	\$12,000	
WYW146286	4900555717	SCHOONOVER RD 5 SRU	32-2	Protective	\$12,000	
WYW146286	4900558193	SCHOONOVER RD 5 SRU	34-11	Protective	\$12,000	
WYW146286	4900558217	SCHOONOVER RD 5 SRU	34-13	Protective	\$12,000	
WYW146286	4900558195	SCHOONOVER RD 5 SRU	41-11	Protective	\$12,000	
WYW146286	4900558161	SCHOONOVER RD 5 SRU	41-2	Protective	\$12,000	
WYW146286	4900558197	SCHOONOVER RD 5 SRU	43-11	Protective	\$12,000	
WYW146286	4900550901	SRU 2		13-Dec	Protective	\$12,000
WYW146286	4900550039	SRU 2	32-14	Protective	\$12,000	
WYW146286	4900550038	SRU 2	34-14	Protective	\$12,000	

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146286	4900550044	SRU 2	43-10	Protective	\$12,000
WYW146286	4900536109	SRU IBERLIN	14-15-4876	Protective	\$12,000
WYW146287	4900558215	SCHOONOVER RD 5 SRU	32-24	Protective	\$12,000
WYW146287	4900558213	SCHOONOVER RD 5 SRU	41-24	Protective	\$12,000
WYW146287	4900536105	SRU	34-22-4876	Protective	\$12,000
WYW146287	4900550903	SRU 2	24-Dec	Protective	\$12,000
WYW146287	4900550904	SRU 2	21-24	Protective	\$12,000
WYW146287	4900550027	SRU 2	41-23	Protective	\$12,000
WYW146287	4900536100	SRU	12/22/4876	Protective	\$12,000
WYW146287	4900536101	SRU	14-22-4876	Protective	\$12,000
WYW146287	4900536102	SRU	21-22-4876	Protective	\$12,000
WYW146287	4900536103	SRU	23-22-4876	Protective	\$12,000
WYW146287	4900550032	SRU 2	14-23	Protective	\$12,000
WYW146287	4900550030	SRU 2	23-23	Protective	\$12,000
WYW146287	4900550029	SRU 2	32-23	Protective	\$12,000
WYW146287	4900550034	SRU 2	43-22	Protective	\$12,000
WYW146288	4900536106	SRU	12/27/4876	Protective	\$12,000
WYW146288	4900538684	SRU	21-27-4876	Protective	\$12,000
WYW146288	4900550025	SRU 2	14-27	Protective	\$12,000
WYW146288	4900550024	SRU 2	23-27	Protective	\$12,000
WYW146289	4900558466	SOUTH PRONG UNIT 3 SPU	12-33BG	Protective	\$5,000
WYW146289	4900558479	SOUTH PRONG UNIT 3 SPU	41-33BG	Protective	\$12,000
WYW146290	4900559698	CARR DRAW III E CARU	32-25BG	Protective	\$12,000
WYW146290	4900557887	CARR DRAW V ADD 1 CARU	41-12GW	Protective	\$12,000
WYW146290	4900559662	CARR DRAW III E CARU	14-13W	Protective	\$12,000
WYW146290	4900559679	CARR DRAW III E CARU	14-24W	Protective	\$12,000
WYW146290	4900559678	CARR DRAW III E CARU	21-24W	Protective	\$12,000
WYW146290	4900559681	CARR DRAW III E CARU	22-25BG	Protective	\$12,000
WYW146290	4900559675	CARR DRAW III E CARU	22-25W	Protective	\$12,000
WYW146290	4900559670	CARR DRAW III E CARU	23-13W	Protective	\$12,000
WYW146290	4900559677	CARR DRAW III E CARU	23-24W	Protective	\$12,000
WYW146290	4900559680	CARR DRAW III E CARU	23-25BG	Protective	\$12,000
WYW146290	4900559674	CARR DRAW III E CARU	23-25W	Protective	\$12,000
WYW146290	4900559648	CARR DRAW III E CARU	32-13W	Protective	\$12,000
WYW146290	4900559705	CARR DRAW III E CARU	32-25W	Protective	\$12,000
WYW146290	4900559671	CARR DRAW III E CARU	34-13W	Protective	\$12,000
WYW146290	4900559669	CARR DRAW III E CARU	34-23W	Protective	\$12,000
WYW146290	4900559672	CARR DRAW III E CARU	43-13W	Protective	\$12,000
WYW146290	4900559668	CARR DRAW III E CARU	44-23W	Protective	\$12,000
WYW146290	4900560649	CARR DRAW III W CARU	12-23W	Protective	\$12,000
WYW146290	4900560648	CARR DRAW III W CARU	14-23W	Protective	\$12,000
WYW146290	4900560647	CARR DRAW III W CARU	21-23W	Protective	\$12,000
WYW146290	4900560672	CARR DRAW III W CARU	22-23W	Protective	\$12,000
WYW146290	4900560673	CARR DRAW III W CARU	23-23W	Protective	\$12,000
WYW146290	4900560674	CARR DRAW III W CARU	42-23W	Protective	\$12,000
WYW146290	4900560785	CARR DRAW IV CARU	14-25GW	Protective	\$12,000
WYW146290	4900557916	CARR DRAW V ADD 1 CARU	41-12BG	Protective	\$12,000
WYW146290	4900557881	CARR DRAW V ADD 1 CARU	41-1GW	Protective	\$12,000
WYW146290	4900557888	CARR DRAW V ADD 1 CARU	43-1GW	Protective	\$12,000
WYW146290	4900557870	CARR DRAW V ADD 2 CARU	21-1GW	Protective	\$12,000
WYW146290	4900557872	CARR DRAW V ADD 2 CARU	32-1GW	Protective	\$12,000
WYW146290	4900557874	CARR DRAW V ADD 2 CARU	34-1GW	Protective	\$12,000
WYW146294	4903325785	TINCOM BUTTE ALPHA SORENSON	21-75376WA	Protective	\$12,000
WYW146294	4903325684	TINCOM BUTTE ALPHA CHOFFEL FED	12-7-5376WA	Protective	\$12,000
WYW146294	4903325786	TINCOM BUTTE ALPHA SORENSON	23-7-5376WA	Protective	\$12,000
WYW146294	4903325685	TINCOM BUTTE A CHOFFEL	14-6WA*	Protective	\$12,000
WYW146294	4903325784	TINCOM BUTTE A SORENSON	23-6WA	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146294	4903325800	TINCOM BUTTE A WALSH	32-6WA	Protective	\$12,000
WYW146294	4903325801	TINCOM BUTTE A WALSH	43-6WA	Protective	\$12,000
WYW146300	4903324175	TINCOM BUTTE WALSH	12-29*	Protective	\$5,000
WYW146300	4903324177	TINCOM BUTTE WALSH		30-Dec Protective	\$5,000
WYW146300	4903324185	TINCOM BUTTE WALSH		Dec-32 Protective	\$5,000
WYW146300	4903324176	TINCOM BUTTE WALSH	14-29	Protective	\$5,000
WYW146300	4903324178	TINCOM BUTTE WALSH	14-30	Protective	\$5,000
WYW146300	4903324179	TINCOM BUTTE WALSH	21-30	Protective	\$5,000
WYW146300	4903324180	TINCOM BUTTE WALSH	23-30	Protective	\$5,000
WYW146300	4903324181	TINCOM BUTTE WALSH	32-30	Protective	\$5,000
WYW146300	4903324182	TINCOM BUTTE WALSH	41-30	Protective	\$5,000
WYW146300	4903324184	TINCOM BUTTE WALSH	41-31	Protective	\$5,000
WYW146300	4903324183	TINCOM BUTTE WALSH	43-30	Protective	\$5,000
WYW146300	4903325797	TINCOM BUTTE A WALSH	12-31WA	Protective	\$12,000
WYW146300	4903326171	TINCOM BUTTE A WALSH	14-31WA	Protective	\$12,000
WYW146300	4903325799	TINCOM BUTTE A WALSH	24-31WA	Protective	\$12,000
WYW146303	4901926784	KINGSBURY III KU	23-8	Protective	\$12,000
WYW146303	4901928369	KINGSBURY IV KU	34-17	Protective	\$12,000
WYW146303	4901928368	KINGSBURY IV KU	43-17	Protective	\$12,000
WYW146303	4901926757	KINGSBURY III KU	14-5	Protective	\$12,000
WYW146303	4901926774	KINGSBURY III KU	14-8	Protective	\$12,000
WYW146303	4901926761	KINGSBURY III KU	23-5	Protective	\$12,000
WYW146303	4901926787	KINGSBURY III KU	32-8	Protective	\$12,000
WYW146303	4901926791	KINGSBURY III KU	34-8	Protective	\$12,000
WYW146303	4901926771	KINGSBURY III KU	41-5	Protective	\$12,000
WYW146303	4901926767	KINGSBURY III KU	41-7	Protective	\$12,000
WYW146303	4901926795	KINGSBURY III KU	41-8	Protective	\$12,000
WYW146303	4901926797	KINGSBURY III KU	43-8	Protective	\$12,000
WYW146303	4901928309	KINGSBURY IV KU	32-17	Protective	\$12,000
WYW146303	4901928297	KINGSBURY IV KU	41-17	Protective	\$12,000
WYW146304	4901928372	KINGSBURY IV KU		21-Dec Protective	\$12,000
WYW146304	4901928373	KINGSBURY IV KU	14-21	Protective	\$12,000
WYW146304	4901928374	KINGSBURY IV KU	21-21	Protective	\$12,000
WYW146304	4901928305	KINGSBURY IV KU	32-22	Protective	\$12,000
WYW146304	4901928301	KINGSBURY IV KU		22-Dec Protective	\$12,000
WYW146304	4901928302	KINGSBURY IV KU	14-22	Protective	\$12,000
WYW146304	4901928303	KINGSBURY IV KU	21-22	Protective	\$12,000
WYW146304	4901928375	KINGSBURY IV KU	23-21	Protective	\$12,000
WYW146304	4901928304	KINGSBURY IV KU	23-22	Protective	\$12,000
WYW146304	4901928403	KINGSBURY IV KU	34-21	Protective	\$12,000
WYW146304	4901928308	KINGSBURY IV KU	34-22	Protective	\$12,000
WYW146304	4901928307	KINGSBURY IV KU	42-22	Protective	\$12,000
WYW146304	4901928378	KINGSBURY IV KU	43-21	Protective	\$12,000
WYW146304	4901928306	KINGSBURY IV KU	43-22	Protective	\$12,000
WYW146312	4901927274	KDU GAMMA KDU FED	14-21-5177	Protective	\$12,000
WYW146312	4901927268	KDU HU ADD 1 KDU	23-21	Protective	\$12,000
WYW146312	4901927269	KDU HU ADD 1 KDU	33-21	Protective	\$12,000
WYW146312	4901927273	KDU HU ADD 1 KDU	34-21	Protective	\$12,000
WYW146312	4901927272	KDU HU ADD 1 KDU	43-21	Protective	\$12,000
WYW146313	4901924660	KDU GAMMA KDU FED	41-19-5177	Protective	\$12,000
WYW146313	4901926323	KDU GAMMA KDU FED	43-18-5177	Protective	\$12,000
WYW146313	4901929342	KDU GAMMA KDU FED	44-18-5177	Protective	\$12,000
WYW146313	4901924664	KDU HU ADD 1 KDU	12-19*	Protective	\$12,000
WYW146313	4901924663	KDU HU ADD 1 KDU	14-19	Protective	\$12,000
WYW146313	4901924241	KDU HU ADD 1 KDU	21-19	Protective	\$12,000
WYW146313	4901924662	KDU HU ADD 1 KDU	23-19	Protective	\$12,000
WYW146313	4901924661	KDU HU ADD 1 KDU	32-19	Protective	\$12,000

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost	
WYW146318	4901928883	ROSE DRAW UNIT RDU	44-19-5277	Protective	\$12,000	
WYW146318	4901924918	ROSE DRAW UNIT RDU	12-19*	Protective	\$12,000	
WYW146318	4901924951	ROSE DRAW UNIT RDU	14-19	Protective	\$12,000	
WYW146318	4901924919	ROSE DRAW UNIT RDU	21-19	Protective	\$12,000	
WYW146318	4901925749	ROSE DRAW UNIT RDU	24-19	Protective	\$12,000	
WYW146318	4901924996	ROSE DRAW UNIT RDU	31-19	Protective	\$12,000	
WYW146318	4901924920	ROSE DRAW UNIT RDU	32-19	Protective	\$12,000	
WYW146318	4901924922	ROSE DRAW UNIT RDU	41-19	Protective	\$12,000	
WYW146318	4901922942	MW ROSE DRAW UNIT RDU	43-19-5277	Protective	\$12,000	
WYW146318	4901925153	MW ROSE DRAW UNIT RDU	43-19WA	Protective	\$12,000	
WYW146325	4903323329	HANK WILLIAMS II SURANYI	4-12A	Protective	\$12,000	
WYW146339	4901929019	W KINGSBURY 1 KU	43-12	Protective	\$5,000	
WYW146339	4901929014	W KINGSBURY 1 KU	14-12	Protective	\$12,000	
WYW146339	4901929013	W KINGSBURY 1 KU		12-Dec	Protective	\$12,000
WYW146339	4901929039	W KINGSBURY 1 KU	21-12	Protective	\$12,000	
WYW146339	4901929015	W KINGSBURY 1 KU	23-12	Protective	\$12,000	
WYW146339	4901929016	W KINGSBURY 1 KU	31-12	Protective	\$12,000	
WYW146339	4901929017	W KINGSBURY 1 KU	32-12	Protective	\$12,000	
WYW146339	4901929018	W KINGSBURY 1 KU	34-12	Protective	\$12,000	
WYW146341	4901927677	JUNIPER DRAW KESTREL JDFU	23M-2298	Protective	\$5,000	
WYW146341	4901923114	JUNIPER DRAW KESTREL JDFU	14G-2298	Protective	\$12,000	
WYW146341	4901927676	JUNIPER DRAW KESTREL JDFU	14M-2298	Protective	\$12,000	
WYW146341	4901923115	JUNIPER DRAW KESTREL JDFU	23G-2298	Protective	\$12,000	
WYW146341	4901923048	JUNIPER DRAW UNIT JDFU	12G-2298	Protective	\$12,000	
WYW146343	4901929633	HIGHLAND DELTA HU FED	13-10	Protective	\$12,000	
WYW146343	4901929628	HIGHLAND DELTA HU FED	14-10	Protective	\$12,000	
WYW146343	4901929629	HIGHLAND DELTA HU FED	23-10	Protective	\$12,000	
WYW146343	4901929617	HIGHLAND DELTA HU FED	14-9	Protective	\$12,000	
WYW146343	4901929632	HIGHLAND DELTA HU FED	24-9	Protective	\$12,000	
WYW146343	4901929616	HIGHLAND DELTA HU FED		9-Dec	Protective	\$12,000
WYW146345	4901927271	KDU HU ADD 1 KDU		13-Nov	Protective	\$12,000
WYW146345	4901924672	KDU HU ADD 1 KDU		13-Dec	Protective	\$12,000
WYW146345	4901924522	KDU HU ADD 1 KDU	32-13	Protective	\$12,000	
WYW146345	4901924521	KDU HU ADD 1 KDU	23-13	Protective	\$12,000	
WYW146345	4901927267	KDU HU ADD 1 KDU	31-13	Protective	\$12,000	
WYW146345	4901927270	KDU HU ADD 1 KDU	33-13	Protective	\$12,000	
WYW146345	4901924658	KDU HU ADD 1 KDU	34-13	Protective	\$12,000	
WYW146347	4901927212	KDU HU ADD 1 KDU		24-Nov	Protective	\$12,000
WYW146347	4901924657	KDU HU ADD 1 KDU	21-24	Protective	\$12,000	
WYW146347	4901924656	KDU HU ADD 1 KDU	41-24	Protective	\$12,000	
WYW146347	4901926322	KDU HU ADD 1 KDU	43-24	Protective	\$12,000	
WYW146349	4901929502	COAL GULCH GAMMA CGU		Nov-34	Protective	\$12,000
WYW146349	4901929486	COAL GULCH GAMMA CGU		Dec-33	Protective	\$12,000
WYW146349	4901929501	COAL GULCH GAMMA CGU		Dec-34	Protective	\$12,000
WYW146349	4901929500	COAL GULCH GAMMA CGU	13-34	Protective	\$12,000	
WYW146349	4901929514	COAL GULCH GAMMA CGU	14-28	Protective	\$12,000	
WYW146349	4901929487	COAL GULCH GAMMA CGU	14-33	Protective	\$12,000	
WYW146349	4901929488	COAL GULCH GAMMA CGU	21-33	Protective	\$12,000	
WYW146349	4901929515	COAL GULCH GAMMA CGU	23-28	Protective	\$12,000	
WYW146349	4901929479	COAL GULCH GAMMA CGU	23-33	Protective	\$12,000	
WYW146349	4901929499	COAL GULCH GAMMA CGU	23-34	Protective	\$12,000	
WYW146349	4901929498	COAL GULCH GAMMA CGU	24-34	Protective	\$12,000	
WYW146349	4901929516	COAL GULCH GAMMA CGU	31-28	Protective	\$12,000	
WYW146349	4901929497	COAL GULCH GAMMA CGU	31-34	Protective	\$12,000	
WYW146349	4901929517	COAL GULCH GAMMA CGU	32-28	Protective	\$12,000	
WYW146349	4901929489	COAL GULCH GAMMA CGU	32-33	Protective	\$12,000	
WYW146349	4901929518	COAL GULCH GAMMA CGU	34-28	Protective	\$12,000	

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146349	4901929490	COAL GULCH GAMMA CGU	41-33	Protective	\$12,000
WYW146349	4901929496	COAL GULCH GAMMA CGU	41-34	Protective	\$12,000
WYW146349	4901929519	COAL GULCH GAMMA CGU	43-28	Protective	\$12,000
WYW146349	4901929503	COAL GULCH GAMMA CGU	43-33	Protective	\$12,000
WYW146349	4901929495	COAL GULCH GAMMA CGU	43-34	Protective	\$12,000
WYW146349	4901924208	COAL GULCH U CGU FED		27-Dec Protective	\$12,000
WYW146349	4901924210	COAL GULCH U CGU FED	13-27	Protective	\$12,000
WYW146349	4901924211	COAL GULCH UNIT CGU FED	21-27	Protective	\$12,000
WYW146350	4901929520	COAL GULCH GAMMA CGU	14-29	Protective	\$12,000
WYW146350	4901929521	COAL GULCH GAMMA CGU	21-29	Protective	\$12,000
WYW146350	4901926489	COAL GULCH U BETA AMEND CGU	14-31BG	Protective	\$12,000
WYW146350	4901926483	COAL GULCH U BETA CGU	43-32BG	Protective	\$12,000
WYW146350	4901929522	COAL GULCH GAMMA CGU	22-29	Protective	\$12,000
WYW146350	4901929523	COAL GULCH GAMMA CGU	23-29	Protective	\$12,000
WYW146350	4901929524	COAL GULCH GAMMA CGU	32-29	Protective	\$12,000
WYW146350	4901929525	COAL GULCH GAMMA CGU	34-29	Protective	\$12,000
WYW146350	4901929481	COAL GULCH GAMMA CGU	43-29	Protective	\$12,000
WYW146350	4901927660	COAL GULCH U BETA AMEND CGU	13-31BG	Protective	\$12,000
WYW146350	4901927992	COAL GULCH U BETA AMEND CGU	44-32BG	Protective	\$12,000
WYW146350	4901926486	COAL GULCH U BETA CGU	32-32BG	Protective	\$12,000
WYW146350	4901926484	COAL GULCH U BETA CGU	41-32BG	Protective	\$12,000
WYW146355	4901928693	RDU BETA LAWRENCE	14-13*	Protective	\$12,000
WYW146355	4901928692	RDU BETA LAWRENCE	34-14	Protective	\$12,000
WYW146355	4901928689	RDU BETA LAWRENCE	43-14	Protective	\$12,000
WYW146356	4901930285	CW STATE	15-1H	Protective	\$5,000
WYW146356	4901928703	RDU BETA LAWRENCE	33-22	Protective	\$12,000
WYW146356	4901926432	RDU BETA RDU FED	14-23-5278	Protective	\$12,000
WYW146356	4901928691	RDU BETA RDU LAWRENCE FED	12/22/5278	Protective	\$12,000
WYW146356	4901928695	RDU BETA RDU LAWRENCE FED	14-21-5278	Protective	\$12,000
WYW146356	4901928690	RDU BETA RDU LAWRENCE FED	14-22-5278	Protective	\$12,000
WYW146356	4901928708	RDU BETA RDU LAWRENCE FED	23-22-5278	Protective	\$12,000
WYW146356	4901928706	RDU BETA RDU LAWRENCE FED	34-22-5278	Protective	\$12,000
WYW146356	4901926333	RDU BETA		24-Dec Protective	\$12,000
WYW146356	4901926334	RDU BETA	21-24	Protective	\$12,000
WYW146356	4901926337	RDU BETA	23-23	Protective	\$12,000
WYW146356	4901926335	RDU BETA	23-24	Protective	\$12,000
WYW146356	4901928705	RDU BETA	33-23	Protective	\$12,000
WYW146356	4901926431	RDU BETA	34-24	Protective	\$12,000
WYW146356	4901926331	RDU BETA	41-23	Protective	\$12,000
WYW146356	4901926332	RDU BETA	43-23	Protective	\$12,000
WYW146356	4901926336	RDU BETA	43-24	Protective	\$12,000
WYW146356	4901924923	RDU BETA KNUDSON	32-24	Protective	\$12,000
WYW146356	4901928702	RDU BETA LAWRENCE	14-24	Protective	\$12,000
WYW146356	4901924952	ROSE DRAW UNIT RDU	42-24	Protective	\$12,000
WYW146361	4903325180	BIG CORRAL UNIT BCU FEDERAL	14-4*	Protective	\$5,000
WYW146361	4903325721	BIG CORRAL UNIT BCU FEDERAL	34-4	Protective	\$5,000
WYW146362	4903326360	BIG CORRAL UNIT ADD BCU FED	14-10WA	Protective	\$5,000
WYW146362	4903326364	BIG CORRAL UNIT ADD BCU FED	34-10WA	Protective	\$5,000
WYW146362	4903325182	BIG CORRAL UNIT BCU FEDERAL	14-9	Protective	\$5,000
WYW146787	4900550097	THRUSH GRAIL CS COM		1 Protective	\$12,000
WYW146804	4900558973	MOOLAH COIN CS COM		1 Protective	\$12,000
WYW146811	4900559663	CARR DRAW III E CARU	11-18W	Protective	\$12,000
WYW146811	4900559633	CARR DRAW III E CARU	14-20W	Protective	\$12,000
WYW146811	4900559621	CARR DRAW III E CARU	32-19BG	Protective	\$12,000
WYW146811	4900559620	CARR DRAW III E CARU	34-19BG	Protective	\$12,000
WYW146811	4900559619	CARR DRAW III E CARU	43-19BG	Protective	\$12,000
WYW146811	4900556197	CARR DRAW V / IIA CARU	21-17GW	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost	
WYW146811	4900556198	CARR DRAW V / IIA CARU	32-17GW	Protective	\$12,000	
WYW146811	4900556199	CARR DRAW V / IIA CARU	41-17GW	Protective	\$12,000	
WYW146811	4900559634	CARR DRAW III E CARU	12-20W	Protective	\$12,000	
WYW146811	4900559623	CARR DRAW III E CARU	21-19BG	Protective	\$12,000	
WYW146811	4900559639	CARR DRAW III E CARU	21-19W	Protective	\$12,000	
WYW146811	4900559632	CARR DRAW III E CARU	22-20W	Protective	\$12,000	
WYW146811	4900559638	CARR DRAW III E CARU	23-19W	Protective	\$12,000	
WYW146811	4900559637	CARR DRAW III E CARU	32-19W	Protective	\$12,000	
WYW146811	4900559636	CARR DRAW III E CARU	34-19W	Protective	\$12,000	
WYW146811	4900559665	CARR DRAW III E CARU	41-19W	Protective	\$12,000	
WYW146811	4900559635	CARR DRAW III E CARU	43-19W	Protective	\$12,000	
WYW146811	4900559630	CARR DRAW III E CARU	43-20W	Protective	\$12,000	
WYW146811	4900556196	CARR DRAW V / IIA CARU	12-17GW	Protective	\$12,000	
WYW146811	4900556201	CARR DRAW V / IIA CARU	41-18GW	Protective	\$12,000	
WYW146811	4900557877	CARR DRAW V ADD 1 CARU	11-20GW	Protective	\$12,000	
WYW146811	4900557902	CARR DRAW V ADD 1 CARU	21-18GW	Protective	\$12,000	
WYW146811	4900557901	CARR DRAW V ADD 1 CARU	32-18GW	Protective	\$12,000	
WYW146811	4900557879	CARR DRAW V ADD 1 CARU	32-20GW	Protective	\$12,000	
WYW146812	4900559687	CARR DRAW III E CARU	21-31BG	Protective	\$12,000	
WYW146812	4900559640	CARR DRAW III E CARU	41-30W	Protective	\$12,000	
WYW146812	4900560992	CARR DRAW 2 ADD 3 CARU	12-31GW*	Protective	\$12,000	
WYW146812	4900560994	CARR DRAW 2 ADD 3 CARU	14-31GW	Protective	\$12,000	
WYW146812	4900560995	CARR DRAW 2 ADD 3 CARU	41-31GW	Protective	\$12,000	
WYW146812	4900560991	CARR DRAW 2 ADD 3 CARU	42-31GW	Protective	\$12,000	
WYW146812	4900558652	CARR DRAW II ADD II CARU	43-31GW	Protective	\$12,000	
WYW146812	4900559612	CARR DRAW III E CARU	14-30BG	Protective	\$12,000	
WYW146812	4900559627	CARR DRAW III E CARU	14-30W	Protective	\$12,000	
WYW146812	4900559611	CARR DRAW III E CARU	21-30BG	Protective	\$12,000	
WYW146812	4900559626	CARR DRAW III E CARU	21-30W	Protective	\$12,000	
WYW146812	4900559664	CARR DRAW III E CARU	21-31W	Protective	\$12,000	
WYW146812	4900559608	CARR DRAW III E CARU	31-30BG	Protective	\$12,000	
WYW146812	4900559624	CARR DRAW III E CARU	31-30W	Protective	\$12,000	
WYW146812	4900559625	CARR DRAW III E CARU	34-30W	Protective	\$12,000	
WYW146812	4900559642	CARR DRAW III E CARU	42-30BG	Protective	\$12,000	
WYW146812	4900559641	CARR DRAW III E CARU	42-30W	Protective	\$12,000	
WYW146823	4901926559	KINGWOOD 1 IBERLIN RANCH	12-5*	Protective	\$12,000	
WYW146823	4901926555	KINGWOOD 1 IBERLIN RANCH		6-Dec	Protective	\$12,000
WYW146823	4901926543	KINGWOOD 1 IBERLIN RANCH		8-Dec	Protective	\$12,000
WYW146823	4901926538	KINGWOOD 1 IBERLIN RANCH	21-18	Protective	\$12,000	
WYW146823	4901926558	KINGWOOD 1 IBERLIN RANCH	21-5	Protective	\$12,000	
WYW146823	4901926548	KINGWOOD 1 IBERLIN RANCH	21-7	Protective	\$12,000	
WYW146823	4901926537	KINGWOOD 1 IBERLIN RANCH	23-18	Protective	\$12,000	
WYW146823	4901925283	KINGWOOD 1 IBERLIN RANCH	23-5	Protective	\$12,000	
WYW146823	4901926552	KINGWOOD 1 IBERLIN RANCH	23-6	Protective	\$12,000	
WYW146823	4901926547	KINGWOOD 1 IBERLIN RANCH	23-7	Protective	\$12,000	
WYW146823	4901926546	KINGWOOD 1 IBERLIN RANCH	32-7	Protective	\$12,000	
WYW146823	4901925174	KINGWOOD 1 IBERLIN RANCH	34-6	Protective	\$12,000	
WYW146823	4901926534	KINGWOOD 1 IBERLIN RANCH	41-18	Protective	\$12,000	
WYW146823	4901926556	KINGWOOD 1 IBERLIN RANCH	41-5	Protective	\$12,000	
WYW146823	4901926551	KINGWOOD 1 IBERLIN RANCH	41-6	Protective	\$12,000	
WYW146824	4901925282	KINGWOOD 1 IBERLIN RANCH	43-5	Protective	\$12,000	
WYW146826	4901921972	BULLWHACKER CREEK		12/9/4277	Protective	\$12,000
WYW146826	4901921973	BULLWHACKER CREEK	14-9-4277	Protective	\$12,000	
WYW146826	4901921971	BULLWHACKER CREEK	21-9-4277	Protective	\$12,000	
WYW146826	4901921969	BULLWHACKER CREEK	32-9-4277	Protective	\$12,000	
WYW146826	4901921974	BULLWHACKER CREEK	34-9-4277	Protective	\$12,000	
WYW146826	4901921976	BULLWHACKER CREEK	43-8-4277	Protective	\$12,000	

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146826	4901921975	BULLWHACKER CREEK	43-9-4277	Protective	\$12,000
WYW146826	4901925090	BULLWHACKER II BCU	12-3*	Protective	\$12,000
WYW146826	4901925093	BULLWHACKER II BCU		4-Dec Protective	\$12,000
WYW146826	4901925089	BULLWHACKER II BCU	14-3	Protective	\$12,000
WYW146826	4901925092	BULLWHACKER II BCU	14-4	Protective	\$12,000
WYW146826	4901925086	BULLWHACKER II BCU	32-3	Protective	\$12,000
WYW146826	4901925085	BULLWHACKER II BCU	34-3	Protective	\$12,000
WYW146826	4901925063	BULLWHACKER II BCU	41-4	Protective	\$12,000
WYW146826	4901925094	BULLWHACKER II BCU	43-3	Protective	\$12,000
WYW146827	4901925068	BULLWHACKER II BCU	21-7	Protective	\$5,000
WYW146827	4901925099	BULLWHACKER II BCU		5-Dec Protective	\$12,000
WYW146827	4901925098	BULLWHACKER II BCU	14-5	Protective	\$12,000
WYW146827	4901925097	BULLWHACKER II BCU	21-5	Protective	\$12,000
WYW146827	4901925096	BULLWHACKER II BCU	23-5	Protective	\$12,000
WYW146827	4901925073	BULLWHACKER II BCU	32-5	Protective	\$12,000
WYW146827	4901925079	BULLWHACKER II BCU	41-5	Protective	\$12,000
WYW146827	4901925080	BULLWHACKER II BCU	43-5	Protective	\$12,000
WYW146828	4901923367	BULLWHACKER II FEDERAL	14-14	Protective	\$12,000
WYW146828	4901923368	BULLWHACKER II MOORE LAND		14-Dec Protective	\$12,000
WYW146828	4901923373	BULLWHACKER II MOORE LAND	14-11	Protective	\$12,000
WYW146828	4901923366	BULLWHACKER II MOORE LAND	21-14	Protective	\$12,000
WYW146828	4901923369	BULLWHACKER II MOORE LAND	23-14	Protective	\$12,000
WYW146828	4901923372	BULLWHACKER II MOORE LAND	32-14	Protective	\$12,000
WYW146828	4901923397	BULLWHACKER II MOORE LAND	34-11	Protective	\$12,000
WYW146828	4901923371	BULLWHACKER II MOORE LAND	34-14	Protective	\$12,000
WYW146828	4901923370	BULLWHACKER II MOORE LAND	41-14	Protective	\$12,000
WYW146829	4901925034	BULLWHACKER II BCU		15-Dec Protective	\$12,000
WYW146829	4901925038	BULLWHACKER II BCU	32-15	Protective	\$12,000
WYW146829	4901925039	BULLWHACKER II BCU	34-15	Protective	\$12,000
WYW146829	4901925040	BULLWHACKER II BCU	41-15	Protective	\$12,000
WYW146829	4901925084	BULLWHACKER II BCU	43-15	Protective	\$12,000
WYW146830	4901927482	EAST BULLWHACKER FEDERAL	12-23-4277*	Protective	\$5,000
WYW146830	4901927483	EAST BULLWHACKER FEDERAL	14-23	Protective	\$12,000
WYW146830	4901927484	EAST BULLWHACKER FEDERAL	21-23	Protective	\$12,000
WYW146830	4901927669	EAST BULLWHACKER FEDERAL	23-23	Protective	\$12,000
WYW146830	4901926471	EAST BULLWHACKER MOORE LAND	32-23	Protective	\$12,000
WYW146830	4901926472	EAST BULLWHACKER MOORE LAND	34-23	Protective	\$12,000
WYW146830	4901926473	EAST BULLWHACKER MOORE LAND	43-23	Protective	\$12,000
WYW146830	4901929924	SAHARA MOJAVE FED	4277-23-31F-H	Protective	\$125,000
WYW146831	4901925077	BULLWHACKER II MOORE TRUST	32-26	Protective	\$12,000
WYW146831	4901927488	EAST BULLWHACKER MOORE LAND	32-27	Protective	\$12,000
WYW146831	4901925074	BULLWHACKER II MOORE TRUST		26-Dec Protective	\$12,000
WYW146831	4901925019	BULLWHACKER II MOORE TRUST	21-27	Protective	\$12,000
WYW146831	4901927489	EAST BULLWHACKER MOORE LAND	41-27	Protective	\$12,000
WYW146831	4901929925	SAHARA MOJAVE FED	4277-26-34F-H	Protective	\$125,000
WYW146833	4901926215	BULLWHACKER III BCU	14-4*	Protective	\$12,000
WYW146833	4901926216	BULLWHACKER III BCU	23-4	Protective	\$12,000
WYW146833	4901926218	BULLWHACKER III BCU	41-5	Protective	\$12,000
WYW146833	4901926217	BULLWHACKER III BCU	43-5	Protective	\$12,000
WYW146834	4901926224	BULLWHACKER III BCU		5-Dec Protective	\$12,000
WYW146834	4901926229	BULLWHACKER III BCU	14-6	Protective	\$12,000
WYW146834	4901926226	BULLWHACKER III BCU	41-6	Protective	\$12,000
WYW146834	4901926223	BULLWHACKER III BCU	14-5	Protective	\$12,000
WYW146834	4901926222	BULLWHACKER III BCU	21-5	Protective	\$12,000
WYW146834	4901926221	BULLWHACKER III BCU	23-5	Protective	\$12,000
WYW146834	4901926228	BULLWHACKER III BCU	23-6	Protective	\$12,000
WYW146834	4901926220	BULLWHACKER III BCU	32-5	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146834	4901926219	BULLWHACKER III BCU	34-5	Protective	\$12,000
WYW146834	4901926227	BULLWHACKER III BCU	34-6	Protective	\$12,000
WYW146834	4901926225	BULLWHACKER III BCU	43-6	Protective	\$12,000
WYW146834	4901928006	W BULLWHACKER BCU	12-6*	Protective	\$12,000
WYW146835	4901926243	BULLWHACKER III BCU	21-7	Protective	\$12,000
WYW146835	4901926247	BULLWHACKER III BCU		7-Dec Protective	\$12,000
WYW146835	4901926245	BULLWHACKER III BCU	14-7	Protective	\$12,000
WYW146835	4901926241	BULLWHACKER III BCU	23-7	Protective	\$12,000
WYW146835	4901926239	BULLWHACKER III BCU	32-7	Protective	\$12,000
WYW146835	4901926237	BULLWHACKER III BCU	34-7	Protective	\$12,000
WYW146835	4901926231	BULLWHACKER III BCU	41-7	Protective	\$12,000
WYW146835	4901926230	BULLWHACKER III BCU	43-7	Protective	\$12,000
WYW146836	4901926261	BULLWHACKER III BCU		8-Dec Protective	\$12,000
WYW146836	4901926260	BULLWHACKER III BCU	14-8	Protective	\$12,000
WYW146836	4901926259	BULLWHACKER III BCU	21-8	Protective	\$12,000
WYW146836	4901926258	BULLWHACKER III BCU	23-8	Protective	\$12,000
WYW146836	4901926256	BULLWHACKER III BCU	32-8	Protective	\$12,000
WYW146836	4901926254	BULLWHACKER III BCU	34-8	Protective	\$12,000
WYW146836	4901926252	BULLWHACKER III BCU	41-8	Protective	\$12,000
WYW146836	4901926250	BULLWHACKER III BCU	43-8	Protective	\$12,000
WYW146837	4901926263	BULLWHACKER III BCU		9-Dec Protective	\$12,000
WYW146837	4901926262	BULLWHACKER III BCU	14-9	Protective	\$12,000
WYW146837	4901926264	BULLWHACKER III BCU	21-9	Protective	\$12,000
WYW146837	4901926265	BULLWHACKER III BCU	23-9	Protective	\$12,000
WYW146837	4901926266	BULLWHACKER III BCU	32-9	Protective	\$12,000
WYW146837	4901928362	BULLWHACKER III BCU	34-9R	Protective	\$12,000
WYW146837	4901926268	BULLWHACKER III BCU	41-9	Protective	\$12,000
WYW146837	4901926270	BULLWHACKER III BCU	43-9	Protective	\$12,000
WYW146838	4901926253	BULLWHACKER III BCU	32-18	Protective	\$12,000
WYW146838	4901926238	BULLWHACKER III BCU		17-Dec Protective	\$12,000
WYW146838	4901926248	BULLWHACKER III BCU		18-Dec Protective	\$12,000
WYW146838	4901926240	BULLWHACKER III BCU	14-17	Protective	\$12,000
WYW146838	4901926242	BULLWHACKER III BCU	21-17	Protective	\$12,000
WYW146838	4901926244	BULLWHACKER III BCU	23-17	Protective	\$12,000
WYW146838	4901926251	BULLWHACKER III BCU	23-18	Protective	\$12,000
WYW146838	4901926246	BULLWHACKER III BCU	41-17	Protective	\$12,000
WYW146838	4901926255	BULLWHACKER III BCU	41-18	Protective	\$12,000
WYW146838	4901926257	BULLWHACKER III BCU	43-18	Protective	\$12,000
WYW146839	4901925033	BULLWHACKER II BCU		31-Dec Protective	\$12,000
WYW146839	4901926285	BULLWHACKER III BCU		30-Dec Protective	\$12,000
WYW146839	4901926269	BULLWHACKER III BCU	14-19	Protective	\$12,000
WYW146839	4901926287	BULLWHACKER III BCU	14-30	Protective	\$12,000
WYW146839	4901926289	BULLWHACKER III BCU	21-30	Protective	\$12,000
WYW146839	4901926293	BULLWHACKER III BCU	34-30	Protective	\$12,000
WYW146840	4901926318	BULLWHACKER III BCU	43-29	Protective	\$12,000
WYW146840	4901926271	BULLWHACKER III BCU		20-Dec Protective	\$12,000
WYW146840	4901926307	BULLWHACKER III BCU		29-Dec Protective	\$12,000
WYW146840	4901926274	BULLWHACKER III BCU	14-20	Protective	\$12,000
WYW146840	4901926308	BULLWHACKER III BCU	14-29	Protective	\$12,000
WYW146840	4901926309	BULLWHACKER III BCU	21-29	Protective	\$12,000
WYW146840	4901926275	BULLWHACKER III BCU	23-20	Protective	\$12,000
WYW146840	4901926311	BULLWHACKER III BCU	23-29	Protective	\$12,000
WYW146840	4901926278	BULLWHACKER III BCU	32-20	Protective	\$12,000
WYW146840	4901926313	BULLWHACKER III BCU	32-29	Protective	\$12,000
WYW146840	4901926280	BULLWHACKER III BCU	34-20	Protective	\$12,000
WYW146840	4901926314	BULLWHACKER III BCU	34-29	Protective	\$12,000
WYW146840	4901926282	BULLWHACKER III BCU	41-20	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146840	4901926316	BULLWHACKER III BCU	41-29	Protective	\$12,000
WYW146840	4901926284	BULLWHACKER III BCU	43-20	Protective	\$12,000
WYW146841	4901926312	BULLWHACKER III BCU	41-21	Protective	\$12,000
WYW146841	4901926286	BULLWHACKER III BCU		21-Dec	\$12,000
WYW146841	4901926288	BULLWHACKER III BCU	14-21	Protective	\$12,000
WYW146841	4901926290	BULLWHACKER III BCU	21-21	Protective	\$12,000
WYW146841	4901926292	BULLWHACKER III BCU	23-21	Protective	\$12,000
WYW146841	4901926294	BULLWHACKER III BCU	32-21	Protective	\$12,000
WYW146841	4901926310	BULLWHACKER III BCU	34-21	Protective	\$12,000
WYW146841	4901926315	BULLWHACKER III BCU	43-21	Protective	\$12,000
WYW146842	4901925023	BULLWHACKER II BCU	23-27	Protective	\$12,000
WYW146842	4901925024	BULLWHACKER II BCU	34-27	Protective	\$12,000
WYW146843	4901925025	BULLWHACKER II BCU		28-Dec	\$12,000
WYW146843	4901925027	BULLWHACKER II BCU	21-28	Protective	\$12,000
WYW146843	4901925026	BULLWHACKER II BCU	14-28	Protective	\$12,000
WYW146843	4901925028	BULLWHACKER II BCU	23-28	Protective	\$12,000
WYW146843	4901925029	BULLWHACKER II BCU	32-28	Protective	\$12,000
WYW146843	4901925030	BULLWHACKER II BCU	34-28	Protective	\$12,000
WYW146843	4901925031	BULLWHACKER II BCU	41-28	Protective	\$12,000
WYW146843	4901925032	BULLWHACKER II BCU	43-28	Protective	\$12,000
WYW146844	4901925048	BULLWHACKER II BCU	23-33	Protective	\$12,000
WYW146844	4901925104	BULLWHACKER II BCU	21-33	Protective	\$12,000
WYW146844	4901925049	BULLWHACKER II BCU	32-33	Protective	\$12,000
WYW146844	4901925050	BULLWHACKER II BCU	34-33	Protective	\$12,000
WYW146844	4901925051	BULLWHACKER II BCU	41-33	Protective	\$12,000
WYW146844	4901925052	BULLWHACKER II BCU	43-33	Protective	\$12,000
WYW146845	4901928449	MOJAVE	01-34D	Protective	\$5,000
WYW146845	4901925058	BULLWHACKER II BCU	34-34	Protective	\$12,000
WYW146845	4901925056	BULLWHACKER II BCU (FEDERAL)	23-34	Protective	\$12,000
WYW146845	4901925053	BULLWHACKER II BCU		Dec-34	\$12,000
WYW146845	4901925054	BULLWHACKER II BCU	14-34	Protective	\$12,000
WYW146845	4901925055	BULLWHACKER II BCU	21-34	Protective	\$12,000
WYW146845	4901925057	BULLWHACKER II BCU	32-34	Protective	\$12,000
WYW146845	4901925059	BULLWHACKER II BCU	41-34	Protective	\$12,000
WYW146845	4901925060	BULLWHACKER II BCU	43-34	Protective	\$12,000
WYW146848	4901923957	KINGWOOD 3 FEDERAL	14-12	Protective	\$12,000
WYW146848	4901923955	KINGWOOD 3 FEDERAL	23-12	Protective	\$12,000
WYW146850	4901924285	KINGSBURY II FEDERAL		3-Dec	\$12,000
WYW146850	4901924286	KINGSBURY II FEDERAL	21-3	Protective	\$12,000
WYW146850	4901924287	KINGSBURY II FEDERAL	32-3	Protective	\$12,000
WYW146850	4901924288	KINGSBURY II FEDERAL	41-3	Protective	\$12,000
WYW146871	4901929027	W KINGSBURY 1 KU	12-1*	Protective	\$12,000
WYW146871	4901929028	W KINGSBURY 1 KU	14-1	Protective	\$12,000
WYW146871	4901929040	W KINGSBURY 1 KU	21-1	Protective	\$12,000
WYW146871	4901929029	W KINGSBURY 1 KU	23-1	Protective	\$12,000
WYW146873	4901929041	W KINGSBURY 1 FEDERAL	32-3	Protective	\$12,000
WYW146873	4901929038	W KINGSBURY 1 FEDERAL	23-3	Protective	\$12,000
WYW146873	4901929042	W KINGSBURY 1 FEDERAL	41-3	Protective	\$12,000
WYW146877	4901923539	WHISKEY DRAW UNIT WDU	14-1	Protective	\$5,000
WYW146877	4901923538	WHISKEY DRAW UNIT WDU		1-Dec	\$12,000
WYW146877	4901923540	WHISKEY DRAW UNIT WDU	21-1	Protective	\$12,000
WYW146877	4901923541	WHISKEY DRAW UNIT WDU	41-1	Protective	\$12,000
WYW146878	4901923546	WHISKEY DRAW UNIT WDU	32-2	Protective	\$12,000
WYW146878	4901923547	WHISKEY DRAW UNIT WDU	34-2	Protective	\$12,000
WYW146878	4901923548	WHISKEY DRAW UNIT WDU	41-2	Protective	\$12,000
WYW146878	4901923542	WHISKEY DRAW UNIT WDU FED		2-Dec	\$12,000
WYW146878	4901923544	WHISKEY DRAW UNIT WDU FED	21-2	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146878	4901923545	WHISKEY DRAW UNIT WDU FED	23-2	Protective	\$12,000
WYW146878	4901923549	WHISKEY DRAW UNIT WDU FED	43-2	Protective	\$12,000
WYW146879	4901923555	WHISKEY DRAW UNIT WDU FED	41-3	Protective	\$5,000
WYW146879	4901923550	WHISKEY DRAW UNIT WDU FED		3-Dec Protective	\$12,000
WYW146879	4901923553	WHISKEY DRAW UNIT WDU FED	23-3	Protective	\$12,000
WYW146879	4901923554	WHISKEY DRAW UNIT WDU FED	32-3	Protective	\$12,000
WYW146879	4901922966	WHISKEY DRAW UNIT WDU	34-3*	Protective	\$12,000
WYW146880	4901923558	WHISKEY DRAW UNIT WDU	21-4	Protective	\$12,000
WYW146880	4901923560	WHISKEY DRAW UNIT WDU	41-4	Protective	\$12,000
WYW146880	4901923559	WHISKEY DRAW UNIT WDU	32-4	Protective	\$12,000
WYW146880	4901923557	WHISKEY DRAW UNIT WDU FED		4-Dec Protective	\$12,000
WYW146880	4901922967	WHISKEY DRAW UNIT WDU FED	14-4	Protective	\$12,000
WYW146880	4901922981	WHISKEY DRAW UNIT WDU FED	14-9	Protective	\$12,000
WYW146880	4901922983	WHISKEY DRAW UNIT WDU FED	23-9	Protective	\$12,000
WYW146880	4901922969	WHISKEY DRAW UNIT WDU FED	34-4	Protective	\$12,000
WYW146881	4901929920	SIMBA DEEP GHOST RIDER	4778-6-1*	Protective	\$20,000
WYW146881	4901924381	WHISKEY DRAW UNIT 1 WDU	23-6BG	Protective	\$12,000
WYW146881	4901924385	WHISKEY DRAW UNIT 1 WDU	12-6BG	Protective	\$12,000
WYW146881	4901924384	WHISKEY DRAW UNIT 1 WDU	14-6BG	Protective	\$12,000
WYW146881	4901924379	WHISKEY DRAW UNIT 1 WDU	34-6BG	Protective	\$12,000
WYW146881	4901924378	WHISKEY DRAW UNIT 1 WDU	43-6BG	Protective	\$12,000
WYW146881	4901924383	WHISKEY DRAW UNIT 1 WDU FED	21-6BG	Protective	\$12,000
WYW146881	4901923561	WHISKEY DRAW UNIT WDU	14-5	Protective	\$12,000
WYW146881	4901923562	WHISKEY DRAW UNIT WDU FED	34-5	Protective	\$12,000
WYW146882	4901929916	SIMBA DEEP GHOST RIDER	4778-7-1FH	Protective	\$20,000
WYW146882	4901924368	WHISKEY DRAW UNIT 1 WDU	23-7BG	Protective	\$12,000
WYW146882	4901924369	WHISKEY DRAW UNIT 1 WDU	21-7BG	Protective	\$12,000
WYW146882	4901924366	WHISKEY DRAW UNIT 1 WDU	32-7BG	Protective	\$12,000
WYW146882	4901924365	WHISKEY DRAW UNIT 1 WDU	34-7BG	Protective	\$12,000
WYW146882	4901924363	WHISKEY DRAW UNIT 1 WDU	41-7BG	Protective	\$12,000
WYW146882	4901924362	WHISKEY DRAW UNIT 1 WDU	43-7BG	Protective	\$12,000
WYW146882	4901924377	WHISKEY DRAW UNIT 1 WDU FED	12-7BG	Protective	\$12,000
WYW146882	4901924376	WHISKEY DRAW UNIT 1 WDU FED	14-7BG	Protective	\$12,000
WYW146883	4901929922	GHOST RIDER	4778 8-1FH	Protective	\$20,000
WYW146883	4901923565	WHISKEY DRAW UNIT WDU FED	21-8	Protective	\$5,000
WYW146883	4901923563	WHISKEY DRAW UNIT WDU		8-Dec Protective	\$12,000
WYW146883	4901923567	WHISKEY DRAW UNIT WDU	32-8	Protective	\$12,000
WYW146883	4901923564	WHISKEY DRAW UNIT WDU FED	14-8	Protective	\$12,000
WYW146883	4901923566	WHISKEY DRAW UNIT WDU FED	33-8BG	Protective	\$12,000
WYW146883	4901923568	WHISKEY DRAW UNIT WDU FED	34-8	Protective	\$12,000
WYW146883	4901922971	WHISKEY DRAW UNIT WDU FED	41-8	Protective	\$12,000
WYW146883	4901922972	WHISKEY DRAW UNIT WDU FED	43-8	Protective	\$12,000
WYW146884	4901924360	WHISKEY DRAW UNIT 1 WDU FED	32-10BG	Protective	\$12,000
WYW146884	4901924358	WHISKEY DRAW UNIT 1 WDU FED	41-10BG	Protective	\$12,000
WYW146884	4901924356	WHISKEY DRAW UNIT 1 WDU FED	43-10BG	Protective	\$12,000
WYW146884	4901922973	WHISKEY DRAW UNIT WDU FED		10-Dec Protective	\$12,000
WYW146884	4901922974	WHISKEY DRAW UNIT WDU FED	14-10	Protective	\$12,000
WYW146884	4901922975	WHISKEY DRAW UNIT WDU FED	21-10	Protective	\$12,000
WYW146884	4901922976	WHISKEY DRAW UNIT WDU FED	23-10	Protective	\$12,000
WYW146884	4901922977	WHISKEY DRAW UNIT WDU FED	34-10	Protective	\$12,000
WYW146885	4901924349	WHISKEY DRAW UNIT 1 WDU	32-11BG	Protective	\$12,000
WYW146885	4901924345	WHISKEY DRAW UNIT 1 WDU	41-11BG	Protective	\$12,000
WYW146885	4901924343	WHISKEY DRAW UNIT 1 WDU	43-11BG	Protective	\$12,000
WYW146885	4901924355	WHISKEY DRAW UNIT 1 WDU FED	12-11BG	Protective	\$12,000
WYW146885	4901924353	WHISKEY DRAW UNIT 1 WDU FED	14-11BG	Protective	\$12,000
WYW146885	4901924352	WHISKEY DRAW UNIT 1 WDU FED	21-11BG	Protective	\$12,000
WYW146885	4901924350	WHISKEY DRAW UNIT 1 WDU FED	23-11BG	Protective	\$12,000

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WYW146885	4901924347	WHISKEY DRAW UNIT 1 WDU FED	34-11BG	Protective	\$12,000
WYW146886	4901924408	WHISKEY DRAW UNIT 1 WDU FED	14-14BG	Protective	\$12,000
WYW146886	4901924412	WHISKEY DRAW UNIT 1 WDU FED	23-14BG	Protective	\$12,000
WYW146886	4901924413	WHISKEY DRAW UNIT 1 WDU FED	32-14BG	Protective	\$12,000
WYW146886	4901924406	WHISKEY DRAW UNIT 1 WDU FED	12-14BG	Protective	\$12,000
WYW146886	4901924411	WHISKEY DRAW UNIT 1 WDU FED	21-14BG	Protective	\$12,000
WYW146886	4901924403	WHISKEY DRAW UNIT 1 WDU FED	34-14BG	Protective	\$12,000
WYW146886	4901924398	WHISKEY DRAW UNIT 1 WDU FED	41-14BG	Protective	\$12,000
WYW146886	4901925263	WHISKEY DRAW UNIT 1 WDU FED	43-14BG	Protective	\$12,000
WYW146887	4901922979	WHISKEY DRAW UNIT WDU FED	22-15	Protective	\$12,000
WYW146887	4901925257	WHISKEY DRAW UNIT 1 WDU FED	14-15BG	Protective	\$12,000
WYW146887	4901925260	WHISKEY DRAW UNIT 1 WDU FED	23-15BG	Protective	\$12,000
WYW146887	4901924399	WHISKEY DRAW UNIT 1 WDU FED	32-15BG	Protective	\$12,000
WYW146887	4901925261	WHISKEY DRAW UNIT 1 WDU FED	34-15BG	Protective	\$12,000
WYW146887	4901924400	WHISKEY DRAW UNIT 1 WDU FED	41-15BG	Protective	\$12,000
WYW146887	4901924402	WHISKEY DRAW UNIT 1 WDU FED	43-15BG	Protective	\$12,000
WYW146887	4901922978	WHISKEY DRAW UNIT WDU FED		15-Dec Protective	\$12,000
WYW146888	4901924339	WHISKEY DRAW UNIT 1 WDU	21-18BG	Protective	\$5,000
WYW146888	4901924409	WHISKEY DRAW UNIT 1 WDU	32-18BG	Protective	\$5,000
WYW146888	4901924340	WHISKEY DRAW UNIT 1 WDU	14-18BG	Protective	\$12,000
WYW146888	4901923574	WHISKEY DRAW UNIT WDU FED	34-17	Protective	\$12,000
WYW146888	4901924410	WHISKEY DRAW UNIT 1 WDU	23-18BG	Protective	\$12,000
WYW146888	4901924407	WHISKEY DRAW UNIT 1 WDU	34-18BG	Protective	\$12,000
WYW146888	4901924342	WHISKEY DRAW UNIT 1 WDU FED	12-18BG	Protective	\$12,000
WYW146888	4901924405	WHISKEY DRAW UNIT 1 WDU FED	41-18	Protective	\$12,000
WYW146888	4901924404	WHISKEY DRAW UNIT 1 WDU FED	43-18	Protective	\$12,000
WYW146888	4901923569	WHISKEY DRAW UNIT WDU FED		17-Dec Protective	\$12,000
WYW146888	4901923571	WHISKEY DRAW UNIT WDU FED	21-17	Protective	\$12,000
WYW146888	4901923572	WHISKEY DRAW UNIT WDU FED	23-17	Protective	\$12,000
WYW146888	4901923575	WHISKEY DRAW UNIT WDU FED	41-17	Protective	\$12,000
WYW146888	4901923576	WHISKEY DRAW UNIT WDU FED	43-17	Protective	\$12,000
WYW146889	4901927073	FALXA RED DRAW ADD FEDERAL	12-20L*	Protective	\$5,000
WYW146889	4901927074	FALXA RED DRAW ADD FEDERAL	14-20L	Protective	\$5,000
WYW146889	4901927075	FALXA RED DRAW ADD FEDERAL	21-20L	Protective	\$5,000
WYW146889	4901927076	FALXA RED DRAW ADD FEDERAL	23-20L	Protective	\$5,000
WYW146889	4901927077	FALXA RED DRAW ADD FEDERAL	32-20L	Protective	\$5,000
WYW146889	4901927078	FALXA RED DRAW ADD FEDERAL	34-20L	Protective	\$5,000
WYW146889	4901927079	FALXA RED DRAW ADD FEDERAL	41-20L	Protective	\$5,000
WYW146889	4901926014	FALXA RED DRAW FEDERAL	12-20*	Protective	\$5,000
WYW146889	4901927969	FALXA RED DRAW FEDERAL	12-20R	Protective	\$5,000
WYW146889	4901926015	FALXA RED DRAW FEDERAL	14-20	Protective	\$5,000
WYW146889	4901926016	FALXA RED DRAW FEDERAL	21-20	Protective	\$5,000
WYW146889	4901926017	FALXA RED DRAW FEDERAL	23-20	Protective	\$5,000
WYW146889	4901926018	FALXA RED DRAW FEDERAL	32-20	Protective	\$5,000
WYW146889	4901926019	FALXA RED DRAW FEDERAL	34-20	Protective	\$5,000
WYW146889	4901926020	FALXA RED DRAW FEDERAL	41-20	Protective	\$5,000
WYW146889	4901926021	FALXA RED DRAW FEDERAL	43-20	Protective	\$5,000
WYW146889	4901929754	SIMBA FED	20-44M-H	Protective	\$125,000
WYW146890	4901928912	WHISKEY DRAWN WDU		21-Nov Protective	\$12,000
WYW146890	4901928909	WHISKEY DRAWN WDU	33-21	Protective	\$12,000
WYW146890	4901928914	WHISKEY DRAWN WDU	43-21	Protective	\$12,000
WYW146891	4901926022	FALXA RED DRAW FALXA		22-Dec Protective	\$12,000
WYW146891	4901926023	FALXA RED DRAW FALXA	14-22	Protective	\$12,000
WYW146891	4901926024	FALXA RED DRAW FALXA	21-22	Protective	\$12,000
WYW146891	4901926025	FALXA RED DRAW FALXA	23-22	Protective	\$12,000
WYW146891	4901926026	FALXA RED DRAW FALXA	32-22	Protective	\$12,000
WYW146891	4901926027	FALXA RED DRAW FALXA	34-22	Protective	\$12,000

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Lease	API Number	Well Name	Num		Protective or Actual Liability	Estimated Cost
WYW146891	4901926028	FALXA RED DRAW FALXA	41-22		Protective	\$12,000
WYW146891	4901926029	FALXA RED DRAW FALXA	43-22		Protective	\$12,000
WYW146900	4901929073	W KINGSBURY 1 FEDERAL	34-34		Protective	\$5,000
WYW146900	4901929034	W KINGSBURY 1 FEDERAL		Dec-34	Protective	\$12,000
WYW146900	4901929075	W KINGSBURY 1 FEDERAL	21-34		Protective	\$12,000
WYW146900	4901929072	W KINGSBURY 1 FEDERAL	23-34		Protective	\$12,000
WYW146900	4901929035	W KINGSBURY 1 FEDERAL	32-34		Protective	\$12,000
WYW146900	4901929036	W KINGSBURY 1 FEDERAL	41-34		Protective	\$12,000
WYW146900	4901929037	W KINGSBURY 1 FEDERAL	43-34		Protective	\$12,000
WYW146901	4901929032	W KINGSBURY 1 FALXA LAND	41-35		Protective	\$12,000
WYW146901	4901929079	W KINGSBURY 1 FALXA LAND		Dec-35	Protective	\$12,000
WYW146901	4901929080	W KINGSBURY 1 FALXA LAND	14-35		Protective	\$12,000
WYW146901	4901929077	W KINGSBURY 1 FALXA LAND	21-35		Protective	\$12,000
WYW146901	4901929030	W KINGSBURY 1 FALXA LAND	23-35		Protective	\$12,000
WYW146901	4901929078	W KINGSBURY 1 FALXA LAND	32-35		Protective	\$12,000
WYW146901	4901929031	W KINGSBURY 1 FALXA LAND	34-35		Protective	\$12,000
WYW146901	4901929033	W KINGSBURY 1 FALXA LAND	43-35		Protective	\$12,000
WYW146902	4901926912	LAMBDA RHO BIG MIKE UNIT		12-Jan	Protective	\$5,000
WYW146902	4901926913	LAMBDA RHO BIG MIKE UNIT		14-Jan	Protective	\$12,000
WYW146902	4901926914	LAMBDA RHO BIG MIKE UNIT		21-Jan	Protective	\$12,000
WYW146902	4901926915	LAMBDA RHO BIG MIKE UNIT		23-Jan	Protective	\$12,000
WYW146902	4901926916	LAMBDA RHO BIG MIKE UNIT		Jan-32	Protective	\$12,000
WYW146902	4901926917	LAMBDA RHO BIG MIKE UNIT		Jan-34	Protective	\$12,000
WYW146902	4901926918	LAMBDA RHO BIG MIKE UNIT		Jan-41	Protective	\$12,000
WYW146902	4901926919	LAMBDA RHO BIG MIKE UNIT		Jan-43	Protective	\$12,000
WYW146903	4901927045	LAMBDA RHO BIG MIKE UNIT		12-Oct	Protective	\$12,000
WYW146903	4901927043	LAMBDA RHO BIG MIKE UNIT		21-Oct	Protective	\$12,000
WYW146903	4901926901	LAMBDA RHO BIG MIKE UNIT	15-14		Protective	\$12,000
WYW146903	4901927057	LAMBDA RHO BIG MIKE UNIT		14-Mar	Protective	\$12,000
WYW146903	4901927055	LAMBDA RHO BIG MIKE UNIT		23-Mar	Protective	\$12,000
WYW146903	4901927049	LAMBDA RHO BIG MIKE UNIT		23-Apr	Protective	\$12,000
WYW146904	4901927575	CAT CREEK ADD I AMEND FEDERAL		8-Dec	Protective	\$12,000
WYW146905	4901927092	OMEGA BIG MIKE UNIT	22-12		Protective	\$12,000
WYW146905	4901927094	OMEGA BIG MIKE UNIT	22-21		Protective	\$12,000
WYW146906	4901927100	OMEGA BIG MIKE UNIT	28-41		Protective	\$5,000
WYW146906	4901927110	OMEGA BIG MIKE UNIT	28-34		Protective	\$12,000
WYW146906	4901927090	OMEGA BIG MIKE UNIT	21-41*		Protective	\$12,000
WYW146906	4901927091	OMEGA BIG MIKE UNIT	21-43		Protective	\$12,000
WYW146906	4901927111	OMEGA BIG MIKE UNIT	28-43		Protective	\$12,000
WYW146907	4901927101	OMEGA BIG MIKE UNIT	27-12		Protective	\$5,000
WYW146907	4901927108	OMEGA BIG MIKE UNIT	27-43		Protective	\$5,000
WYW146907	4901927097	OMEGA BIG MIKE UNIT	22-34		Protective	\$12,000
WYW146907	4901927099	OMEGA BIG MIKE UNIT	22-43		Protective	\$12,000
WYW146907	4901927102	OMEGA BIG MIKE UNIT	27-14		Protective	\$12,000
WYW146907	4901927103	OMEGA BIG MIKE UNIT	27-21		Protective	\$12,000
WYW146907	4901927104	OMEGA BIG MIKE UNIT	27-23		Protective	\$12,000
WYW146907	4901927106	OMEGA BIG MIKE UNIT	27-34		Protective	\$12,000
WYW146908	4901923582	WHISKEY DRAW UNIT WDU	23-34		Protective	\$12,000
WYW146908	4901923584	WHISKEY DRAW UNIT WDU	34-34		Protective	\$12,000
WYW146908	4901923579	WHISKEY DRAW UNIT WDU		Dec-34	Protective	\$12,000
WYW146908	4901923583	WHISKEY DRAW UNIT WDU	32-34		Protective	\$12,000
WYW146908	4901923585	WHISKEY DRAW UNIT WDU	41-34		Protective	\$12,000
WYW146908	4901923586	WHISKEY DRAW UNIT WDU	43-34		Protective	\$12,000
WYW146908	4901923580	WHISKEY DRAW UNIT WDU FED	14-34		Protective	\$12,000
WYW146908	4901923581	WHISKEY DRAW UNIT WDU FED	21-34		Protective	\$12,000
WYW146913	4901929454	POWDER VALLEY UNIT EPSILON	14-3		Protective	\$12,000
WYW146913	4901929470	POWDER VALLEY UNIT EPSILON	24-3		Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146913	4901929472	POWDER VALLEY UNIT EPSILON	34-3	Protective	\$12,000
WYW146913	4901929473	POWDER VALLEY UNIT EPSILON	44-3	Protective	\$12,000
WYW146914	4901929383	COAL GULCH GAMMA CGU	24-4	Protective	\$12,000
WYW146914	4901929493	COAL GULCH GAMMA CGU	41-9	Protective	\$12,000
WYW146914	4901926827	COAL GULCH U BETA AMEND CGU	11-4BG*	Protective	\$12,000
WYW146914	4901925943	COAL GULCH U BETA AMEND CGU	21-4BG	Protective	\$12,000
WYW146914	4901927988	COAL GULCH U BETA AMEND CGU	22-4BG	Protective	\$12,000
WYW146914	4901927991	COAL GULCH U BETA AMEND CGU	24-9BG	Protective	\$12,000
WYW146914	4901925941	COAL GULCH U BETA CGU FED	12-4BG	Protective	\$12,000
WYW146914	4901925957	COAL GULCH U BETA CGU FED	23-9BG	Protective	\$12,000
WYW146915	4901929564	POWDER VALLEY UNIT EPSILON	14-10	Protective	\$12,000
WYW146915	4901929475	POWDER VALLEY UNIT EPSILON	23-10	Protective	\$12,000
WYW146915	4901929476	POWDER VALLEY UNIT EPSILON	24-10	Protective	\$12,000
WYW146915	4901929477	POWDER VALLEY UNIT EPSILON	32-10	Protective	\$12,000
WYW146915	4901929478	POWDER VALLEY UNIT EPSILON	41-10	Protective	\$12,000
WYW146916	4901929550	POWDER VALLEY UNIT EPSILON		13-Nov Protective	\$12,000
WYW146916	4901929549	POWDER VALLEY UNIT EPSILON	21-13	Protective	\$12,000
WYW146916	4901929548	POWDER VALLEY UNIT EPSILON	22-13	Protective	\$12,000
WYW146916	4901929526	POWDER VALLEY UNIT EPSILON	23-13	Protective	\$12,000
WYW146916	4901929527	POWDER VALLEY UNIT EPSILON	32-13	Protective	\$12,000
WYW146916	4901929528	POWDER VALLEY UNIT EPSILON	41-13	Protective	\$12,000
WYW146916	4901929529	POWDER VALLEY UNIT EPSILON	42-13	Protective	\$12,000
WYW146917	4901929530	POWDER VALLEY UNIT EPSILON		14-Dec Protective	\$12,000
WYW146917	4901929531	POWDER VALLEY UNIT EPSILON	21-14	Protective	\$12,000
WYW146917	4901929532	POWDER VALLEY UNIT EPSILON	22-14	Protective	\$12,000
WYW146917	4901929533	POWDER VALLEY UNIT EPSILON	23-14	Protective	\$12,000
WYW146917	4901929534	POWDER VALLEY UNIT EPSILON	24-14	Protective	\$12,000
WYW146917	4901929535	POWDER VALLEY UNIT EPSILON	34-14	Protective	\$12,000
WYW146917	4901929570	POWDER VALLEY UNIT EPSILON	43-14	Protective	\$12,000
WYW146918	4901929536	POWDER VALLEY UNIT EPSILON		15-Dec Protective	\$12,000
WYW146918	4901929537	POWDER VALLEY UNIT EPSILON	14-15	Protective	\$12,000
WYW146918	4901929538	POWDER VALLEY UNIT EPSILON	21-15	Protective	\$12,000
WYW146918	4901929539	POWDER VALLEY UNIT EPSILON	23-15	Protective	\$12,000
WYW146918	4901929540	POWDER VALLEY UNIT EPSILON	32-15	Protective	\$12,000
WYW146918	4901929565	POWDER VALLEY UNIT EPSILON	42-15	Protective	\$12,000
WYW146918	4901929541	POWDER VALLEY UNIT EPSILON	43-15	Protective	\$12,000
WYW146918	4901929542	POWDER VALLEY UNIT EPSILON	44-15	Protective	\$12,000
WYW146919	4901923632	RUBY CRAZY WOMAN		1418 Protective	\$12,000
WYW146919	4901923625	RUBY CRAZY WOMAN FEDERAL		1217 Protective	\$12,000
WYW146919	4901923636	RUBY CRAZY WOMAN FEDERAL		1417 Protective	\$12,000
WYW146919	4901923626	RUBY CRAZY WOMAN FEDERAL		2117 Protective	\$12,000
WYW146919	4901923627	RUBY CRAZY WOMAN FEDERAL		2317 Protective	\$12,000
WYW146919	4901923629	RUBY CRAZY WOMAN FEDERAL		2318 Protective	\$12,000
WYW146919	4901923637	RUBY CRAZY WOMAN FEDERAL		3417 Protective	\$12,000
WYW146919	4901923638	RUBY CRAZY WOMAN FEDERAL		3418 Protective	\$12,000
WYW146919	4901923631	RUBY CRAZY WOMAN FEDERAL		4318 Protective	\$12,000
WYW146920	4901929163	BEAR DRAW GAMMA BDU		19-Nov Protective	\$12,000
WYW146920	4901929187	BEAR DRAW GAMMA BDU		19-Dec Protective	\$12,000
WYW146920	4901929186	BEAR DRAW GAMMA BDU	14-19	Protective	\$12,000
WYW146920	4901929188	BEAR DRAW GAMMA BDU	21-19	Protective	\$12,000
WYW146920	4901929185	BEAR DRAW GAMMA BDU	32-19	Protective	\$12,000
WYW146920	4901929184	BEAR DRAW GAMMA BDU	41-19	Protective	\$12,000
WYW146920	4901929189	BEAR DRAW GAMMA BDU	42-19	Protective	\$12,000
WYW146921	4901928606	POWDER VALLEY U DELTA PVU		26-Nov Protective	\$12,000
WYW146921	4901928605	POWDER VALLEY U DELTA PVU	32-26	Protective	\$12,000
WYW146921	4901928592	POWDER VALLEY U DELTA PVU	41-26	Protective	\$12,000
WYW146922	4901923028	POWDER VALLEY UNIT PVU		25-Nov Protective	\$5,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW146922	4901928607	POWDER VALLEY U DELTA PVU	13-25	Protective	\$12,000
WYW146922	4901928602	POWDER VALLEY U DELTA PVU	34-26	Protective	\$12,000
WYW146922	4901928593	POWDER VALLEY U DELTA PVU	44-26	Protective	\$12,000
WYW146922	4901923029	POWDER VALLEY UNIT PVU	22-25	Protective	\$12,000
WYW146922	4901923030	POWDER VALLEY UNIT PVU FEDERAL	24-25	Protective	\$12,000
WYW146922	4901923011	POWDER VALLEY UNIT PVU FEDERAL	33-25	Protective	\$12,000
WYW146922	4901924227	POWDER VALLEY UNIT PVU FEDERAL	44-25	Protective	\$12,000
WYW146923	4901928654	POWDER VALLEY U DELTA PVU		Dec-34 Protective	\$12,000
WYW146923	4901928652	POWDER VALLEY U DELTA PVU	21-34	Protective	\$12,000
WYW146923	4901928591	POWDER VALLEY U DELTA PVU	24-26	Protective	\$12,000
WYW146923	4901928594	POWDER VALLEY U DELTA PVU	41-34	Protective	\$12,000
WYW146923	4901928588	POWDER VALLEY U DELTA PVU	42-34	Protective	\$12,000
WYW146925	4901928590	POWDER VALLEY U DELTA PVU		Dec-35 Protective	\$12,000
WYW146925	4901928586	POWDER VALLEY U DELTA PVU	21-35	Protective	\$12,000
WYW146925	4901928585	POWDER VALLEY U DELTA PVU	23-35	Protective	\$12,000
WYW146925	4901928578	POWDER VALLEY U DELTA PVU	32-35	Protective	\$12,000
WYW146925	4901928579	POWDER VALLEY U DELTA PVU	34-35	Protective	\$12,000
WYW146925	4901928580	POWDER VALLEY U DELTA PVU	41-35	Protective	\$12,000
WYW146925	4901928581	POWDER VALLEY U DELTA PVU	43-35	Protective	\$12,000
WYW146926	4901928389	HIGHLAND GAMMA HU		15-Dec Protective	\$12,000
WYW146926	4901928387	HIGHLAND GAMMA HU	21-15	Protective	\$12,000
WYW146926	4901928351	HIGHLAND GAMMA HU	23-15	Protective	\$12,000
WYW146926	4901928386	HIGHLAND GAMMA HU	32-15	Protective	\$12,000
WYW146926	4901928385	HIGHLAND GAMMA HU	41-15	Protective	\$12,000
WYW146926	4901928350	HIGHLAND GAMMA HU	44-15	Protective	\$12,000
WYW146926	4901928388	HIGHLAND GAMMA HU	14-15	Protective	\$12,000
WYW146926	4901927939	KDU HU ADD 1 HU	34-15	Protective	\$12,000
WYW147275	4900562399	BISON 1 DURHAM RANCHES FED	12-134572-CXPH	Protective	\$5,000
WYW147275	4900562693	BISON 1 DURHAM RANCHES FED	12-134572-1XPH	Protective	\$125,000
WYW147275	4900562406	BISON 3 DURHAM RANCHES FED	12-134572-4XPH	Protective	\$125,000
WYW147292	4900552712	SAVAGETON 4 SAVAGETON	34-12BG	Protective	\$5,000
WYW147292	4900552713	SAVAGETON 4 SAVAGETON	43-12BG	Protective	\$5,000
WYW147293	4900558063	DRY WILLOW 1	19-12	Protective	\$12,000
WYW147302	4900555694	CARR DRAW II ADD II CCU	23-11GW	Protective	\$5,000
WYW147302	4900555697	CARR DRAW II ADD II CCU	12-11GW	Protective	\$12,000
WYW147302	4900555696	CARR DRAW II ADD II CCU	14-11GW	Protective	\$12,000
WYW147302	4900555695	CARR DRAW II ADD II CCU	21-11GW	Protective	\$12,000
WYW147303	4900558873	MALLARD RECORD	14W-995	Protective	\$12,000
WYW147303	4900558870	MALLARD RECORD	23W-995	Protective	\$12,000
WYW147303	4900558906	MALLARD RECORD	41A-895	Protective	\$12,000
WYW147303	4900558877	MALLARD RECORD	41W-895	Protective	\$12,000
WYW147304	4900558875	MALLARD RECORD	12W-995	Protective	\$12,000
WYW147304	4900558872	MALLARD RECORD	21W-995	Protective	\$12,000
WYW147306	4900555693	CARR DRAW II ADD II CCU	12-14GW	Protective	\$12,000
WYW147306	4900555692	CARR DRAW II ADD II CCU	21-14GW	Protective	\$12,000
WYW147309	4900560993	CARR DRAW 2 ADD 3 CARU	34-31GW	Protective	\$12,000
WYW147313	4900559887	BROOK TROUT WPTU	10S-1	Protective	\$5,000
WYW147313	4900559883	BROOK TROUT WPTU	4S-5	Protective	\$5,000
WYW147313	4900556949	KOKANEE WPTU	8S-9	Protective	\$5,000
WYW147313	4900559882	BROOK TROUT WPTU	10S-9	Protective	\$5,000
WYW147313	4900556950	KOKANEE WPTU	8S-7	Protective	\$12,000
WYW147313	4901929955	SPRUCE 2 IBERLIN RANCH FED	074276-2FH	Protective	\$125,000
WYW147313	4900559881	BROOK TROUT WPTU	10S-11	Protective	\$12,000
WYW147313	4900559879	BROOK TROUT WPTU	10S-13	Protective	\$12,000
WYW147313	4900559885	BROOK TROUT WPTU	10S-3	Protective	\$12,000
WYW147313	4900559893	BROOK TROUT WPTU	3S-1*	Protective	\$12,000
WYW147313	4900559891	BROOK TROUT WPTU	3S-3	Protective	\$12,000

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WYW147313	4900559889	BROOK TROUT WPTU	3S-5	Protective	\$12,000
WYW147313	4900559888	BROOK TROUT WPTU	4S-1	Protective	\$12,000
WYW147313	4900559876	BROOK TROUT WPTU	4S-13	Protective	\$12,000
WYW147313	4900559886	BROOK TROUT WPTU	4S-3	Protective	\$12,000
WYW147313	4900559880	BROOK TROUT WPTU	4S-7	Protective	\$12,000
WYW147313	4901926989	KOKANEE WPTU	7S-1*	Protective	\$12,000
WYW147313	4901927005	KOKANEE WPTU	7S-3	Protective	\$12,000
WYW147313	4901927003	KOKANEE WPTU	7S-5	Protective	\$12,000
WYW147313	4901927004	KOKANEE WPTU	7S-7	Protective	\$12,000
WYW147313	4900556960	KOKANEE WPTU	8S-1	Protective	\$12,000
WYW147313	4901926988	KOKANEE WPTU	8S-11	Protective	\$12,000
WYW147313	4901927000	KOKANEE WPTU	8S-13	Protective	\$12,000
WYW147313	4900556951	KOKANEE WPTU	8S-15	Protective	\$12,000
WYW147313	4901927002	KOKANEE WPTU	8S-3	Protective	\$12,000
WYW147313	4901927001	KOKANEE WPTU	8S-5	Protective	\$12,000
WYW147314	4901928573	BROOK TROUT WPTU	19S-11	Protective	\$5,000
WYW147314	4901928572	BROOK TROUT WPTU	19S-13	Protective	\$5,000
WYW147314	4901928571	BROOK TROUT WPTU	19S-15	Protective	\$5,000
WYW147314	4901926996	KOKANEE WPTU	18S-9	Protective	\$5,000
WYW147314	4901928575	BROOK TROUT WPTU	19S-3	Protective	\$12,000
WYW147314	4901928574	BROOK TROUT WPTU	19S-5	Protective	\$12,000
WYW147314	4901926993	KOKANEE WPTU	17S-11	Protective	\$12,000
WYW147314	4901926992	KOKANEE WPTU	17S-13	Protective	\$12,000
WYW147314	4900556959	KOKANEE WPTU	17S-15	Protective	\$12,000
WYW147314	4901926991	KOKANEE WPTU	17S-3	Protective	\$12,000
WYW147314	4901926990	KOKANEE WPTU	17S-5	Protective	\$12,000
WYW147314	4901926999	KOKANEE WPTU	18S-11	Protective	\$12,000
WYW147314	4901926998	KOKANEE WPTU	18S-13	Protective	\$12,000
WYW147314	4901926997	KOKANEE WPTU	18S-15	Protective	\$12,000
WYW147314	4901929849	SPRUCE 1 IBERLIN RANCH FED	1726-2FH*	Protective	\$125,000
WYW147314	4901929956	SPRUCE 2 IBERLIN RANCH FED	184276-2FH	Protective	\$125,000
WYW147314	4901929953	SPRUCE 2 IBERLIN RANCH FED	194276-2FH	Protective	\$125,000
WYW147315	4900559867	BROOK TROUT WPTU	22S-11	Protective	\$5,000
WYW147315	4900559866	BROOK TROUT WPTU	22S-13	Protective	\$5,000
WYW147315	4900559865	BROOK TROUT WPTU	22S-15	Protective	\$5,000
WYW147315	4900559871	BROOK TROUT WPTU	22S-3	Protective	\$5,000
WYW147315	4900559869	BROOK TROUT WPTU	22S-7	Protective	\$5,000
WYW147315	4900556952	KOKANEE WPTU	20S-1	Protective	\$5,000
WYW147315	4901926994	KOKANEE WPTU	20S-11	Protective	\$5,000
WYW147315	4900556954	KOKANEE WPTU	20S-9	Protective	\$5,000
WYW147315	4900556944	KOKANEE WPTU	21S-15	Protective	\$5,000
WYW147315	4900556957	KOKANEE WPTU	21S-3	Protective	\$5,000
WYW147315	4900556958	KOKANEE WPTU	21S-5	Protective	\$5,000
WYW147315	4900556980	MW KOKANEE WPTU	20S-16M	Protective	\$12,000
WYW147315	4900557527	MW KOKANEE WPTU	20S-16MS	Protective	\$12,000
WYW147315	4900559870	BROOK TROUT WPTU	22S-5	Protective	\$12,000
WYW147315	4900556955	KOKANEE WPTU	20S-15	Protective	\$12,000
WYW147315	4901926995	KOKANEE WPTU	20S-3	Protective	\$12,000
WYW147315	4900556953	KOKANEE WPTU	20S-7	Protective	\$12,000
WYW147315	4900556956	KOKANEE WPTU	21S-1	Protective	\$12,000
WYW147315	4900556946	KOKANEE WPTU	21S-11	Protective	\$12,000
WYW147315	4900556945	KOKANEE WPTU	21S-13	Protective	\$12,000
WYW147315	4900556948	KOKANEE WPTU	21S-7	Protective	\$12,000
WYW147315	4900556947	KOKANEE WPTU	21S-9	Protective	\$12,000
WYW147316	4900559846	BROOK TROUT WPTU	27S-3	Protective	\$5,000
WYW147316	4900561746	PINE TREE 1 IBERLIN RANCH FED	2826-4FH	Protective	\$125,000
WYW147316	4900561572	SPRUCE 1 IBERLIN RANCH FED	2826-2FH	Protective	\$125,000

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW147324	4900557436	WORMWOOD UNIT 1 WU FEDERAL	14-15-4676	Protective	\$12,000
WYW147324	4900561082	WORMWOOD UNIT 2 WU	43-26	Protective	\$12,000
WYW147324	4900557411	WORMWOOD UNIT 1 WU		4-Dec Protective	\$12,000
WYW147324	4900557452	WORMWOOD UNIT 1 WU	14-4	Protective	\$12,000
WYW147324	4900557442	WORMWOOD UNIT 1 WU	21-4	Protective	\$12,000
WYW147324	4900557444	WORMWOOD UNIT 1 WU	23-15	Protective	\$12,000
WYW147324	4900557415	WORMWOOD UNIT 1 WU	23-4	Protective	\$12,000
WYW147324	4900557413	WORMWOOD UNIT 1 WU	41-4	Protective	\$12,000
WYW147324	4900561078	WORMWOOD UNIT 2 WU		26-Dec Protective	\$12,000
WYW147324	4900561074	WORMWOOD UNIT 2 WU	14-26	Protective	\$12,000
WYW147324	4900561070	WORMWOOD UNIT 2 WU	23-25	Protective	\$12,000
WYW147324	4900561069	WORMWOOD UNIT 2 WU	23-26	Protective	\$12,000
WYW147324	4900561068	WORMWOOD UNIT 2 WU	32-26	Protective	\$12,000
WYW147324	4900561065	WORMWOOD UNIT 2 WU	34-25	Protective	\$12,000
WYW147324	4900561062	WORMWOOD UNIT 2 WU	41-26	Protective	\$12,000
WYW147324	4900561083	WORMWOOD UNIT 2 WU	43-25	Protective	\$12,000
WYW147327	4900559042	SCHOONOVER RD 4 FEDERAL	43-10	Protective	\$12,000
WYW147327	4900554835	CAT SHADOW MASK CS		10 Protective	\$12,000
WYW147327	4900554836	CAT SHADOW MASK CS		11 Protective	\$12,000
WYW147327	4900554940	CAT SHADOW MASK CS		9 Protective	\$12,000
WYW147327	4900554938	CAT SHADOW MASK CS FEDERAL		7 Protective	\$12,000
WYW147327	4900554939	CAT SHADOW MASK CS FEDERAL		8 Protective	\$12,000
WYW147327	4900560702	VERANDA 1 MASK CS		4 Protective	\$12,000
WYW147327	4900560703	VERANDA 1 MASK CS		5 Protective	\$12,000
WYW147327	4900559267	SCHOONOVER RD 4 FEDERAL		10-Dec Protective	\$12,000
WYW147327	4900559045	SCHOONOVER RD 4 FEDERAL	14-10	Protective	\$12,000
WYW147327	4900559266	SCHOONOVER RD 4 FEDERAL	21-10	Protective	\$12,000
WYW147327	4900559265	SCHOONOVER RD 4 FEDERAL	23-10	Protective	\$12,000
WYW147327	4900559239	SCHOONOVER RD 4 FEDERAL	32-10	Protective	\$12,000
WYW147327	4900559044	SCHOONOVER RD 4 FEDERAL	34-10	Protective	\$12,000
WYW147327	4900559043	SCHOONOVER RD 4 FEDERAL	41-10	Protective	\$12,000
WYW147327	4901925674	CAT SHADOW MASK CS COM		12 Protective	\$12,000
WYW147327	4900560683	VERANDA 1 MASK CS		1 Protective	\$12,000
WYW147327	4900560714	VERANDA 1 MASK CS		3 Protective	\$12,000
WYW147327	4900560701	VERANDA 1MASK CS		2 Protective	\$12,000
WYW147328	4900538685	SRU	21-28-4876	Protective	\$5,000
WYW147328	4900536096	SRU		12/21/4876 Protective	\$12,000
WYW147328	4900550055	SRU 2		28-Dec Protective	\$12,000
WYW147328	4900536097	SRU	21-21-4876	Protective	\$12,000
WYW147329	4901925704	CAT SHADOW DUSK CS		1 Protective	\$12,000
WYW147329	4901925705	CAT SHADOW DUSK CS		2 Protective	\$12,000
WYW147329	4901925707	CAT SHADOW DUSK CS		4 Protective	\$12,000
WYW147329	4901925708	CAT SHADOW DUSK CS		5 Protective	\$12,000
WYW147329	4900554937	CAT SHADOW DUSK CS FEDERAL		7 Protective	\$12,000
WYW147329	4901925706	CAT SHADOW DUSK CS		3 Protective	\$12,000
WYW147329	4900554936	CAT SHADOW DUSK CS FEDERAL		6 Protective	\$12,000
WYW147332	4901925958	WDU BETA WILLIAMS DU FED	14-7*	Protective	\$12,000
WYW147332	4901925963	WDU BETA WILLIAMS DU FED	43-7WR	Protective	\$12,000
WYW147332	4901928946	WDU GAMMA WILLIAMS DU	34-5	Protective	\$12,000
WYW147332	4901928945	WDU GAMMA WILLIAMS DU	44-5	Protective	\$12,000
WYW147332	4901926324	WDU BETA WILLIAMS DU FED	22-7	Protective	\$12,000
WYW147332	4901926712	WDU BETA WILLIAMS DU FED	33-7	Protective	\$12,000
WYW147332	4901925961	WDU BETA WILLIAMS DU FED	34-7	Protective	\$12,000
WYW147332	4901925962	WDU BETA WILLIAMS DU FED	41-7	Protective	\$12,000
WYW147332	4901921325	WDU GAMMA WILLIAMS DU		6-Nov Protective	\$12,000
WYW147332	4901928944	WDU GAMMA WILLIAMS DU		6-Dec Protective	\$12,000
WYW147332	4901928943	WDU GAMMA WILLIAMS DU	13-6	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW147332	4901921326	WDU GAMMA WILLIAMS DU	22-6	Protective	\$12,000
WYW147332	4901928996	WDU GAMMA WILLIAMS DU	33-6	Protective	\$12,000
WYW147342	4901923392	BULLWHACKER II MOORE LAND		11-Dec Protective	\$12,000
WYW147342	4901923393	BULLWHACKER II MOORE LAND	21-11	Protective	\$12,000
WYW147342	4901923394	BULLWHACKER II MOORE LAND	23-11	Protective	\$12,000
WYW147342	4901923396	BULLWHACKER II MOORE LAND	32-11	Protective	\$12,000
WYW147342	4901923398	BULLWHACKER II MOORE LAND	41-11	Protective	\$12,000
WYW147342	4901923400	BULLWHACKER II MOORE LAND	43-11	Protective	\$12,000
WYW147342	4901929847	SAHARA MOJAVE FED	4277-27-44F-H	Protective	\$125,000
WYW147345	4901924302	KINGSBURY II FEDERAL	41-11	Protective	\$12,000
WYW147345	4901924292	KINGSBURY II FEDERAL	32-2	Protective	\$12,000
WYW147346	4901926689	RIVER UNIT GAMMA RU FEDERAL	14-20	Protective	\$12,000
WYW147356	4901929474	POWDER VALLEY UNIT EPSILON		10-Nov Protective	\$12,000
WYW147379	4901924387	WHISKEY DRAW UNIT 1 WDU FED	41-1	Protective	\$5,000
WYW147379	4901924394	WHISKEY DRAW UNIT 1 WDU FED		1-Dec Protective	\$12,000
WYW147379	4901924395	WHISKEY DRAW UNIT 1 WDU FED	14-1	Protective	\$12,000
WYW147379	4901924393	WHISKEY DRAW UNIT 1 WDU FED	21-1	Protective	\$12,000
WYW147379	4901924389	WHISKEY DRAW UNIT 1 WDU FED	34-1	Protective	\$12,000
WYW147379	4901924392	WHISKEY DRAW UNIT 1 WDU FED	23-1	Protective	\$12,000
WYW147379	4901927968	WHISKEY DRAW UNIT 1 WDU FED	32-1R	Protective	\$12,000
WYW147379	4901924386	WHISKEY DRAW UNIT 1 WDU FED	43-1	Protective	\$12,000
WYW147389	4901927340	WEST BEAR DRAW HEPP	21-5	Protective	\$12,000
WYW147389	4901927342	WEST BEAR DRAW HEPP	41-5	Protective	\$12,000
WYW147389	4901927719	WEST BEAR DRAW HEPP FED	22-5	Protective	\$12,000
WYW147389	4901927341	WEST BEAR DRAW HEPP FED	32-5	Protective	\$12,000
WYW147389	4901927349	WEST BEAR DRAW MIDDGAUGH	14-3	Protective	\$12,000
WYW147389	4901927350	WEST BEAR DRAW MIDDGAUGH	34-3	Protective	\$12,000
WYW147389	4901927481	WEST BEAR DRAW WBD	12-3*	Protective	\$12,000
WYW147389	4901927479	WEST BEAR DRAW WBD		4-Dec Protective	\$12,000
WYW147389	4901927358	WEST BEAR DRAW WBD	14-4	Protective	\$12,000
WYW147389	4901927478	WEST BEAR DRAW WBD	21-3	Protective	\$12,000
WYW147389	4901927480	WEST BEAR DRAW WBD	21-4	Protective	\$12,000
WYW147389	4901927475	WEST BEAR DRAW WBD	23-4	Protective	\$12,000
WYW147389	4901927476	WEST BEAR DRAW WBD	23-5	Protective	\$12,000
WYW147389	4901927477	WEST BEAR DRAW WBD	24-5	Protective	\$12,000
WYW147389	4901927356	WEST BEAR DRAW WBD	32-3	Protective	\$12,000
WYW147389	4901927359	WEST BEAR DRAW WBD	32-4	Protective	\$12,000
WYW147389	4901927363	WEST BEAR DRAW WBD	34-5	Protective	\$12,000
WYW147389	4901928730	WEST BEAR DRAW WBD	41-3	Protective	\$12,000
WYW147389	4901927361	WEST BEAR DRAW WBD	41-4	Protective	\$12,000
WYW147389	4901927357	WEST BEAR DRAW WBD	43-3	Protective	\$12,000
WYW147389	4901927718	WEST BEAR DRAW WBD	44-5	Protective	\$12,000
WYW147389	4901927355	WEST BEAR DRAW WBD	23-3	Protective	\$12,000
WYW147393	4901929005	LAZURITE CS		4 Protective	\$12,000
WYW147396	4901923224	COULTER 4 RAWHIDE	21-35	Protective	\$12,000
WYW147396	4901923225	COULTER 4 RAWHIDE	41-35	Protective	\$12,000
WYW147396	4901928458	COULTER 4 STADFELD		Dec-35 Protective	\$12,000
WYW147396	4901928469	COULTER 4 STADFELD	14-35	Protective	\$12,000
WYW148210	4900552651	SAVAGETON 4 GILBERTZ	12-7BG*	Protective	\$5,000
WYW148210	4900552652	SAVAGETON 4 GILBERTZ	14-7BG	Protective	\$5,000
WYW148946	4901924313	KINGSBURY II KU	34-15	Protective	\$12,000
WYW148946	4901924315	KINGSBURY II KU	43-15	Protective	\$12,000
WYW148946	4901923063	KINGSBURY KU	34-22	Protective	\$12,000
WYW148946	4901923064	KINGSBURY KU	43-22	Protective	\$12,000
WYW149227	4900549022	ALL NIGHT CK 2 ANCU		28-Dec Protective	\$5,000
WYW149227	4900549024	ALL NIGHT CK 2 ANCU	21-28	Protective	\$5,000
WYW149227	4900548967	ANCU ALL NIGHT CK 1		27-Dec Protective	\$5,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW149227	4900548966	ANCU ALL NIGHT CK 1	21-27	Protective	\$5,000
WYW149227	4900548965	ANCU ALL NIGHT CK 1	32-27	Protective	\$5,000
WYW149227	4900548964	ANCU ALL NIGHT CK 1	41-27	Protective	\$5,000
WYW149227	4900562738	ROUSH FED 2 ROUSH FED	2-27MH	Protective	\$125,000
WYW149227	4900562741	ROUSH FED 2 ROUSH FED	2-27TH	Protective	\$125,000
WYW149234	4900559297	CARR DRAW II ADD II ME JONES	14-32BG	Protective	\$12,000
WYW149234	4900558323	CARR DRAW II ADD II ME JONES	14-32GW	Protective	\$12,000
WYW149235	4900558020	WORMWOOD UNIT 1 WU	23-3	Protective	\$12,000
WYW149235	4900560735	WORMWOOD UNIT 3 WU	21-13	Protective	\$12,000
WYW149235	4900560731	WORMWOOD UNIT 3 WU	32-11	Protective	\$12,000
WYW149235	4900557433	WORMWOOD UNIT 1 WU	14-3	Protective	\$12,000
WYW149235	4900557434	WORMWOOD UNIT 1 WU	32-4	Protective	\$12,000
WYW149235	4900557449	WORMWOOD UNIT 1 WU	34-3	Protective	\$12,000
WYW149235	4900557448	WORMWOOD UNIT 1 WU	34-4	Protective	\$12,000
WYW149235	4900557428	WORMWOOD UNIT 1 WU	41-10	Protective	\$12,000
WYW149235	4900558021	WORMWOOD UNIT 1 WU	43-3	Protective	\$12,000
WYW149235	4900557419	WORMWOOD UNIT 1 WU	43-4	Protective	\$12,000
WYW149235	4900561072	WORMWOOD UNIT 2 WU	23-13*	Protective	\$12,000
WYW149235	4900561060	WORMWOOD UNIT 2 WU	43-13	Protective	\$12,000
WYW149235	4900560733	WORMWOOD UNIT 3 WU	12-11*	Protective	\$12,000
WYW149235	4900560734	WORMWOOD UNIT 3 WU		13-Dec Protective	\$12,000
WYW149235	4900560729	WORMWOOD UNIT 3 WU	14-12	Protective	\$12,000
WYW149235	4900560732	WORMWOOD UNIT 3 WU	21-11	Protective	\$12,000
WYW149235	4900560730	WORMWOOD UNIT 3 WU	21-12	Protective	\$12,000
WYW149235	4900560736	WORMWOOD UNIT 3 WU	32-13	Protective	\$12,000
WYW149235	4900560737	WORMWOOD UNIT 3 WU	34-12	Protective	\$12,000
WYW149235	4900560738	WORMWOOD UNIT 3 WU	41-12	Protective	\$12,000
WYW149235	4900560739	WORMWOOD UNIT 3 WU	42-13	Protective	\$12,000
WYW149235	4900560740	WORMWOOD UNIT 3 WU	43-12	Protective	\$12,000
WYW149236	4900507518	MW WORMWOOD UNIT 1 WU	31-14BG-MON	Protective	\$12,000
WYW149236	4900507509	MW WORMWOOD UNIT 1 WU	31-14S-MON	Protective	\$12,000
WYW149236	4900557445	WORMWOOD UNIT 1 WU		15-Dec Protective	\$12,000
WYW149236	4900557421	WORMWOOD UNIT 1 WU		22-Dec Protective	\$12,000
WYW149236	4900557423	WORMWOOD UNIT 1 WU	14-22	Protective	\$12,000
WYW149236	4900557422	WORMWOOD UNIT 1 WU	14-23	Protective	\$12,000
WYW149236	4900557425	WORMWOOD UNIT 1 WU	21-14	Protective	\$12,000
WYW149236	4900557450	WORMWOOD UNIT 1 WU	21-22	Protective	\$12,000
WYW149236	4900557430	WORMWOOD UNIT 1 WU	23-14	Protective	\$12,000
WYW149236	4900557424	WORMWOOD UNIT 1 WU	23-22	Protective	\$12,000
WYW149236	4900557440	WORMWOOD UNIT 1 WU	32-14	Protective	\$12,000
WYW149236	4900557441	WORMWOOD UNIT 1 WU	32-15	Protective	\$12,000
WYW149236	4900557439	WORMWOOD UNIT 1 WU	34-14	Protective	\$12,000
WYW149236	4900557412	WORMWOOD UNIT 1 WU	34-15	Protective	\$12,000
WYW149236	4900557431	WORMWOOD UNIT 1 WU	34-22	Protective	\$12,000
WYW149236	4900557416	WORMWOOD UNIT 1 WU	34-23	Protective	\$12,000
WYW149236	4900557451	WORMWOOD UNIT 1 WU	41-14	Protective	\$12,000
WYW149236	4900557446	WORMWOOD UNIT 1 WU	43-14	Protective	\$12,000
WYW149236	4900557435	WORMWOOD UNIT 1 WU	43-15	Protective	\$12,000
WYW149236	4900557417	WORMWOOD UNIT 1 WU	43-22	Protective	\$12,000
WYW149236	4900557438	WORMWOOD UNIT 1 WU FEDERAL		14-Dec Protective	\$12,000
WYW149236	4900557437	WORMWOOD UNIT 1 WU FEDERAL		23-Dec Protective	\$12,000
WYW149236	4900561076	WORMWOOD UNIT 2 WU	14-24	Protective	\$12,000
WYW149236	4900561075	WORMWOOD UNIT 2 WU	14-25	Protective	\$12,000
WYW149236	4900561071	WORMWOOD UNIT 2 WU	23-24	Protective	\$12,000
WYW149236	4900561084	WORMWOOD UNIT 2 WU	43-23	Protective	\$12,000
WYW149363	4901928390	HIGHLAND GAMMA HU		14-Nov Protective	\$12,000
WYW149363	4901928354	HIGHLAND GAMMA HU	12-14*	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW149363	4901928191	KDU HU ADD 1 HU	14-14	Protective	\$12,000
WYW149363	4901927833	KDU HU ADD 1 HU	34-14	Protective	\$12,000
WYW149363	4901928190	KDU HU ADD 1 HU	41-14	Protective	\$12,000
WYW149363	4901928353	HIGHLAND GAMMA HU	22-14	Protective	\$12,000
WYW149363	4901928352	HIGHLAND GAMMA HU	42-14	Protective	\$12,000
WYW149363	4901928189	KDU HU ADD 1 HU	43-14	Protective	\$12,000
WYW149363	4901928330	KDU HU ADD 1 HU	44-14	Protective	\$12,000
WYW149364	4901928411	HIGHLAND GAMMA HU FEDERAL	41-21	Protective	\$12,000
WYW149364	4901928463	HIGHLAND GAMMA HU FEDERAL	13-21	Protective	\$12,000
WYW149364	4901928412	HIGHLAND GAMMA HU FEDERAL	21-21	Protective	\$12,000
WYW149364	4901928384	HIGHLAND GAMMA HU FEDERAL	22-21	Protective	\$12,000
WYW149364	4901928383	HIGHLAND GAMMA HU FEDERAL	33-21	Protective	\$12,000
WYW149364	4901924220	HIGHLAND UNIT HU FED	23-22	Protective	\$12,000
WYW149364	4901926885	KDU HU ADD 1 HU	32-23	Protective	\$12,000
WYW149364	4901926888	KDU HU ADD 1 HU	41-23	Protective	\$12,000
WYW149364	4901926887	KDU HU ADD 1 HU	43-23	Protective	\$12,000
WYW149364	4901928410	HIGHLAND GAMMA HU FEDERAL	14-21	Protective	\$12,000
WYW149364	4901928382	HIGHLAND GAMMA HU FEDERAL	43-21	Protective	\$12,000
WYW149364	4901928381	HIGHLAND GAMMA HU FEDERAL	44-21	Protective	\$12,000
WYW149364	4901924217	HIGHLAND UNIT HU FED	12-22*	Protective	\$12,000
WYW149364	4901924225	HIGHLAND UNIT HU FED		23-Dec Protective	\$12,000
WYW149364	4901924218	HIGHLAND UNIT HU FED	14-22	Protective	\$12,000
WYW149364	4901924226	HIGHLAND UNIT HU FED	14-23	Protective	\$12,000
WYW149364	4901924219	HIGHLAND UNIT HU FED	21-22	Protective	\$12,000
WYW149364	4901924222	HIGHLAND UNIT HU FED	24-22	Protective	\$12,000
WYW149364	4901924221	HIGHLAND UNIT HU FED	32-22	Protective	\$12,000
WYW149364	4901924223	HIGHLAND UNIT HU FED	41-22	Protective	\$12,000
WYW149364	4901924224	HIGHLAND UNIT HU FED	43-22	Protective	\$12,000
WYW149364	4901926883	KDU HU ADD 1 HU	21-23	Protective	\$12,000
WYW149364	4901926884	KDU HU ADD 1 HU	23-23	Protective	\$12,000
WYW149364	4901927211	KDU HU ADD 1 HU	24-23	Protective	\$12,000
WYW149626	4900558165	SCHOONOVER RD 5 SRU	14-3	Protective	\$12,000
WYW149626	4900558163	SCHOONOVER RD 5 SRU	23-3	Protective	\$12,000
WYW149626	4900558227	SCHOONOVER RD 5 SRU	34-3	Protective	\$12,000
WYW149795	4901923717	BGU EPSILON	26-12*	Protective	\$5,000
WYW149795	4901923692	BGU EPSILON	26-14	Protective	\$5,000
WYW149795	4901923691	BGU EPSILON	26-23	Protective	\$5,000
WYW149795	4901923718	BGU EPSILON	26-41	Protective	\$5,000
WYW149795	4901923713	BGU EPSILON	35-34	Protective	\$12,000
WYW149795	4901923719	BGU EPSILON	26-21	Protective	\$12,000
WYW149795	4901923690	BGU EPSILON	26-34	Protective	\$12,000
WYW149795	4901923707	BGU EPSILON	35-12	Protective	\$12,000
WYW149795	4901923708	BGU EPSILON	35-14	Protective	\$12,000
WYW149795	4901923709	BGU EPSILON	35-21	Protective	\$12,000
WYW149795	4901923711	BGU EPSILON	35-32	Protective	\$12,000
WYW149795	4901923712	BGU EPSILON	35-41	Protective	\$12,000
WYW149795	4901923714	BGU EPSILON	35-43	Protective	\$12,000
WYW149799	4901925490	SCHOONOVER RD 3 FEDERAL	21-6	Protective	\$12,000
WYW149799	4901925491	SCHOONOVER RD 3 FEDERAL	14-6	Protective	\$12,000
WYW149799	4901925489	SCHOONOVER RD 3 FEDERAL	23-6	Protective	\$12,000
WYW149799	4901925488	SCHOONOVER RD 3 FEDERAL	32-6	Protective	\$12,000
WYW149799	4901925730	CAT SHADOW SHADOW CS		5 Protective	\$12,000
WYW149799	4901925731	CAT SHADOW SHADOW CS		6 Protective	\$12,000
WYW149799	4901925726	CAT SHADOW SHADOW CS FEDERAL		1 Protective	\$12,000
WYW149799	4901925727	CAT SHADOW SHADOW CS FEDERAL		2 Protective	\$12,000
WYW149799	4901925728	CAT SHADOW SHADOW CS FEDERAL		3 Protective	\$12,000
WYW149799	4901925729	CAT SHADOW SHADOW CS FEDERAL		4 Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW149799	4901925492	SCHOONOVER RD 3 FEDERAL		6-Dec Protective	\$12,000
WYW149799	4901925487	SCHOONOVER RD 3 FEDERAL	34-6	Protective	\$12,000
WYW149799	4901925486	SCHOONOVER RD 3 FEDERAL	41-6	Protective	\$12,000
WYW149799	4901925485	SCHOONOVER RD 3 FEDERAL	43-6	Protective	\$12,000
WYW149799	4901925498	SCHOONOVER RD 3 IBERLIN RCH	21-5	Protective	\$12,000
WYW149828	4900533575	TRUE GRIT FEDERAL	32-18	Protective	\$100,000
WYW149884	4901925828	RIVER UNIT BETA RU	43-20BG	Protective	\$5,000
WYW149884	4901924524	RIVER UNIT ALPHA RU	21-21BG*	Protective	\$12,000
WYW149884	4901924538	RIVER UNIT ALPHA RU	43-22BG	Protective	\$12,000
WYW149884	4901924526	RIVER UNIT ALPHA RU	23-21BG	Protective	\$12,000
WYW149884	4901924534	RIVER UNIT ALPHA RU	23-22BG	Protective	\$12,000
WYW149884	4901924527	RIVER UNIT ALPHA RU	32-21BG	Protective	\$12,000
WYW149884	4901924536	RIVER UNIT ALPHA RU	34-22BG	Protective	\$12,000
WYW149884	4901924530	RIVER UNIT ALPHA RU	41-21BG	Protective	\$12,000
WYW149884	4901924529	RIVER UNIT ALPHA RU	43-21BG	Protective	\$12,000
WYW149884	4901924532	RIVER UNIT ALPHA RU FEDERAL	14-22BG	Protective	\$12,000
WYW149884	4901924525	RIVER UNIT BETA RU	12-21BG	Protective	\$12,000
WYW149970	4901925072	BULLWHACKER II BCU	43-7	Protective	\$12,000
WYW149972	4901927303	SIGMA TAU BIG GEORGE UNIT		Jun-32 Protective	\$12,000
WYW149972	4901927302	SIGMA TAU BIG GEORGE UNIT		Jun-41 Protective	\$12,000
WYW150206	4900558056	DRY WILLOW 1	25-21	Protective	\$12,000
WYW150206	4900558060	DRY WILLOW 1	26-41	Protective	\$12,000
WYW150379	4900553789	SAVAGETON 4 T CHAIR	34-18BG	Protective	\$12,000
WYW150385	4900561427	NORTH BUTTE 2 J CHRISTENSEN	32-4-4476	Protective	\$12,000
WYW150386	4901924380	WHISKEY DRAW UNIT 1 WDU	32-6BG	Protective	\$12,000
WYW150386	4901923570	WHISKEY DRAW UNIT WDU FED	14-17	Protective	\$12,000
WYW150386	4901928913	WHISKEY DRAWN WDU	11-12*	Protective	\$12,000
WYW150758	4900562568	SHADOW-BUSTER 4176 SHADOW FED	4176-9-24TH	Protective	\$125,000
WYW150758	4900563336	WINNIE FED	4176-9-1 FH	Protective	\$125,000
WYW150758	4900563337	WINNIE FED	4176-9-2 FH	Protective	\$125,000
WYW151705	4900549756	BELLE FOURCHE FLOCCINI DURHAM	41-2-4572	Protective	\$5,000
WYW151882	4901927093	OMEGA BIG MIKE UNIT	22-14	Protective	\$5,000
WYW151882	4901927096	OMEGA BIG MIKE UNIT	22-32	Protective	\$5,000
WYW151882	4901927095	OMEGA BIG MIKE UNIT	22-23	Protective	\$12,000
WYW151882	4901927105	OMEGA BIG MIKE UNIT	27-32	Protective	\$12,000
WYW151882	4901927107	OMEGA BIG MIKE UNIT	27-41	Protective	\$12,000
WYW151883	4901927098	OMEGA BIG MIKE UNIT	22-41	Protective	\$5,000
WYW151884	4901927642	SIGMA TAU BIG GEORGE UNIT		Dec-34 Protective	\$12,000
WYW151884	4901927641	SIGMA TAU BIG GEORGE UNIT	13-32	Protective	\$12,000
WYW151884	4901927640	SIGMA TAU BIG GEORGE UNIT	13-41	Protective	\$12,000
WYW151884	4901927639	SIGMA TAU BIG GEORGE UNIT	13-43	Protective	\$12,000
WYW151885	4901925595	IOTA ZETA BIG MIKE UNIT	35-34	Protective	\$5,000
WYW151885	4901925599	IOTA ZETA BIG MIKE UNIT	35-14	Protective	\$12,000
WYW151885	4901925598	IOTA ZETA BIG MIKE UNIT	35-21	Protective	\$12,000
WYW151885	4901925596	IOTA ZETA BIG MIKE UNIT	35-32	Protective	\$12,000
WYW151892	4900558619	KENAI	C2-3	Protective	\$5,000
WYW151892	4900558618	KENAI	D1-3	Protective	\$5,000
WYW151895	4900560996	NEO DOZER CS FEDERAL		1 Protective	\$5,000
WYW151895	4900561042	NEO DOZER CS FEDERAL		2 Protective	\$5,000
WYW151956	4901927944	SIGMA TAU ANADARKO	24-14	Protective	\$5,000
WYW151956	4901927945	SIGMA TAU ANADARKO	24-23	Protective	\$5,000
WYW151956	4901927943	SIGMA TAU ANADARKO	24-32	Protective	\$12,000
WYW151957	4901924696	KAPPA ANADARKO FEDERAL	23-43	Protective	\$5,000
WYW151957	4901924693	KAPPA ANADARKO FEDERAL	23-23	Protective	\$12,000
WYW151957	4901924694	KAPPA ANADARKO FEDERAL	23-34	Protective	\$12,000
WYW151958	4901922910	KINGSBURY KU HARRIET L&L		28-Dec Protective	\$12,000
WYW151958	4901922913	KINGSBURY KU HARRIET L&L		29-Dec Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW151958	4901922911	KINGSBURY KU HARRIET L&L	21-28	Protective	\$12,000
WYW151958	4901922907	KINGSBURY KU HARRIET L&L	32-29	Protective	\$12,000
WYW151958	4901922912	KINGSBURY KU HARRIET L&L	41-28	Protective	\$12,000
WYW151958	4901922908	KINGSBURY KU HARRIET L&L	41-29	Protective	\$12,000
WYW151959	4901930607	BIG RIVER	4777 21-1FH	Protective	\$20,000
WYW151959	4901924317	KINGSBURY II KU	14-21	Protective	\$12,000
WYW151959	4901924318	KINGSBURY II KU	23-21	Protective	\$12,000
WYW151959	4901924319	KINGSBURY II KU	34-21	Protective	\$12,000
WYW151959	4901924316	KINGSBURY II KU	43-20	Protective	\$12,000
WYW151959	4901924320	KINGSBURY II KU	43-21	Protective	\$12,000
WYW151960	4901925614	IOTA ZETA ANADARKO FED	30-23	Protective	\$12,000
WYW152614	4901929374	COAL GULCH GAMMA CGU	31-4	Protective	\$12,000
WYW152614	4901929375	COAL GULCH GAMMA CGU	32-4	Protective	\$12,000
WYW152614	4901929376	COAL GULCH GAMMA CGU	41-4	Protective	\$12,000
WYW152614	4901929377	COAL GULCH GAMMA CGU	43-4	Protective	\$12,000
WYW152615	4901929378	COAL GULCH GAMMA CGU	33-9	Protective	\$12,000
WYW152615	4901929492	COAL GULCH GAMMA CGU	34-9	Protective	\$12,000
WYW152615	4901929494	COAL GULCH GAMMA CGU	43-9	Protective	\$12,000
WYW152616	4901928732	POWDER VALLEY U DELTA FED	31-27	Protective	\$12,000
WYW152616	4901928604	POWDER VALLEY U DELTA FED	32-27	Protective	\$12,000
WYW152616	4901928484	TEAR DROP BOOTJACK		21-Dec Protective	\$12,000
WYW152616	4901928483	TEAR DROP FEDERAL	13-21	Protective	\$12,000
WYW152616	4901928456	TEAR DROP FEDERAL	23-21	Protective	\$12,000
WYW152616	4901928507	TEAR DROP FEDERAL	34-21	Protective	\$12,000
WYW152617	4901928488	TEAR DROP FEDERAL	22-33	Protective	\$12,000
WYW152642	4901925493	SCHOONOVER RD 3 IBERLIN RCH	43-5	Protective	\$12,000
WYW152642	4901925495	SCHOONOVER RD 3 IBERLIN RCH	34-5	Protective	\$12,000
WYW152836	4900556279	ANC6 PUMPKIN BUTTES RANCH FED	23-4-4374	Protective	\$5,000
WYW152836	4900556280	ANC6 PUMPKIN BUTTES RANCH FED	32-4-4374	Protective	\$5,000
WYW152836	4900556282	ANC6 PUMPKIN BUTTES RANCH FED	41-4-4374	Protective	\$5,000
WYW152836	4900556283	ANC6 PUMPKIN BUTTES RANCH FED	43-4-4374	Protective	\$5,000
WYW152836	4900556275	ANC6 TM MOORE FED		12/13/4374 Protective	\$5,000
WYW152836	4900556276	ANC6 TM MOORE FED	14-13-4374	Protective	\$5,000
WYW152836	4900556277	ANC6 P MOORE FED	23-13-4374	Protective	\$12,000
WYW152836	4900556281	ANC6 PUMPKIN BUTTES RANCH FED	34-4-4374	Protective	\$12,000
WYW152836	4900555724	ANC6 R ROUSH FED	21-13-4374	Protective	\$12,000
WYW152836	4900563585	FALCON	3-3410H	Protective	\$125,000
WYW152836	4900562252	PASTRY FEDERAL COM	1H	Protective	\$125,000
WYW152971	4901923331	BULLWHACKER III DRY FORK	32-23	Protective	\$12,000
WYW152971	4901923350	BULLWHACKER III DRY FORK	34-14	Protective	\$12,000
WYW152971	4901923330	BULLWHACKER III DRY FORK	41-23	Protective	\$12,000
WYW152971	4901923349	BULLWHACKER III DRY FORK	43-14	Protective	\$12,000
WYW152971	4901923329	BULLWHACKER III FEDERAL	43-23	Protective	\$12,000
WYW152971	4901926476	EAST BULLWHACKER STEPANEK	32-14	Protective	\$12,000
WYW152974	4901923416	BULLWHACKER II FEDERAL	34-22	Protective	\$12,000
WYW152974	4901923418	BULLWHACKER II FEDERAL	43-22	Protective	\$12,000
WYW152974	4901923415	BULLWHACKER II MOORE LAND	32-22	Protective	\$12,000
WYW152974	4901923417	BULLWHACKER II MOORE LAND	41-22	Protective	\$12,000
WYW152974	4901929887	SAHARA MOJAVE FED	4277-22-41F-H	Protective	\$125,000
WYW152975	4901923346	EAST BULLWHACKER DRY FORK		3-Dec Protective	\$12,000
WYW152975	4901923345	EAST BULLWHACKER DRY FORK	21-3	Protective	\$12,000
WYW152975	4901923342	EAST BULLWHACKER DRY FORK	23-3	Protective	\$12,000
WYW152975	4901923347	EAST BULLWHACKER DRY FORK	34-3	Protective	\$12,000
WYW152975	4901927501	EAST BULLWHACKER DRY FORK	41-3	Protective	\$12,000
WYW152976	4901923328	EAST BULLWHACKER DRY FORK		25-Dec Protective	\$12,000
WYW152976	4901923327	EAST BULLWHACKER DRY FORK	14-25	Protective	\$12,000
WYW152976	4901923323	EAST BULLWHACKER DRY FORK	21-25	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW152976	4901923326	EAST BULLWHACKER DRY FORK	23-25	Protective	\$12,000
WYW152976	4901923325	EAST BULLWHACKER DRY FORK	32-25	Protective	\$12,000
WYW152976	4901923324	EAST BULLWHACKER DRY FORK	34-25	Protective	\$12,000
WYW153063	4900560386	DRY WILLOW 3 CHRISTENSEN	33-23	Protective	\$12,000
WYW153063	4900560380	DRY WILLOW 3 CHRISTENSEN	28-12	Protective	\$12,000
WYW153063	4900560381	DRY WILLOW 3 CHRISTENSEN	28-14	Protective	\$12,000
WYW153063	4900560382	DRY WILLOW 3 CHRISTENSEN	28-21	Protective	\$12,000
WYW153063	4900560383	DRY WILLOW 3 CHRISTENSEN	28-23	Protective	\$12,000
WYW153063	4900560472	DRY WILLOW 3 CHRISTENSEN	33-12	Protective	\$12,000
WYW153063	4900560384	DRY WILLOW 3 CHRISTENSEN	33-14	Protective	\$12,000
WYW153063	4900560385	DRY WILLOW 3 CHRISTENSEN	33-21	Protective	\$12,000
WYW153063	4900560387	DRY WILLOW 3 CHRISTENSEN	33-34	Protective	\$12,000
WYW153063	4900560388	DRY WILLOW 3 CHRISTENSEN	33-43	Protective	\$12,000
WYW153064	4900558066	DRY WILLOW 1	35-23	Protective	\$12,000
WYW153064	4900558084	DRY WILLOW 1	35-34	Protective	\$12,000
WYW153070	4900558054	DRY WILLOW 1	25-12	Protective	\$12,000
WYW153355	4901924215	COAL GULCH UNIT CGU FED	41-27	Protective	\$12,000
WYW153355	4901924213	COAL GULCH UNIT CGU FED	32-27	Protective	\$12,000
WYW153355	4901924214	COAL GULCH UNIT CGU FED	34-27	Protective	\$12,000
WYW153355	4901924216	COAL GULCH UNIT CGU FED	43-27	Protective	\$12,000
WYW153360	4901926542	KINGWOOD 1 IBERLIN RANCH	14-17	Protective	\$12,000
WYW153361	4901926545	KINGWOOD 1 IBERLIN RANCH	34-7	Protective	\$12,000
WYW153361	4901926544	KINGWOOD 1 IBERLIN RANCH	43-7	Protective	\$12,000
WYW153362	4901926557	KINGWOOD 1 IBERLIN RANCH	32-5	Protective	\$12,000
WYW153363	4900557597	WORMWOOD UNIT 1 IBERLIN RANCH	12-3*	Protective	\$12,000
WYW153363	4900557598	WORMWOOD UNIT 1 IBERLIN RANCH	32-3	Protective	\$12,000
WYW153364	4900561077	WORMWOOD UNIT 2 WU		25-Dec	Protective \$12,000
WYW153529	4901921456	CAT SHADOW COSTUME CS		1	Protective \$12,000
WYW153529	4901925693	CAT SHADOW COSTUME CS		2	Protective \$12,000
WYW153529	4901923060	KINGSBURY FEDERAL	21-35	Protective	\$12,000
WYW153529	4901922906	KINGSBURY IBERLIN	23-35	Protective	\$12,000
WYW153529	4901927644	SIGMA TAU ANADARKO	19-34	Protective	\$12,000
WYW153529	4901927643	SIGMA TAU ANADARKO	20-14	Protective	\$12,000
WYW153529	4901927332	SIGMA TAU ANADARKO FED	19-43	Protective	\$12,000
WYW153681	4901925738	CAT SHADOW SPIRIT CS		1	Protective \$12,000
WYW153681	4901925741	CAT SHADOW SPIRIT CS		4	Protective \$12,000
WYW153681	4901925739	CAT SHADOW SPIRIT CS FEDERAL		2	Protective \$12,000
WYW153681	4901925740	CAT SHADOW SPIRIT CS		3	Protective \$12,000
WYW153682	4901927970	KINGWOOD 1 FEDERAL		4-Dec	Protective \$12,000
WYW153682	4901927680	KINGWOOD 1 FEDERAL	21-4	Protective	\$12,000
WYW154404	4900558651	CARR DRAW II ADD II CARU	43-21GW	Protective	\$12,000
WYW154404	4900556200	CARR DRAW V / IIA CARU	43-17GW	Protective	\$12,000
WYW154404	4900558649	CARR DRAW II ADD II CARU	14-21GW	Protective	\$12,000
WYW154404	4900558329	CARR DRAW II ADD II CARU	23-21GW	Protective	\$12,000
WYW154404	4900558650	CARR DRAW II ADD II CARU	34-21GW	Protective	\$12,000
WYW154404	4900559667	CARR DRAW III E CARU	12-19W	Protective	\$12,000
WYW154404	4900559922	CARR DRAW III E CARU	14-19BG	Protective	\$12,000
WYW154404	4900559923	CARR DRAW III E CARU	14-19W	Protective	\$12,000
WYW154404	4900557906	CARR DRAW V ADD 1 CARU	14-17GW	Protective	\$12,000
WYW154404	4900557904	CARR DRAW V ADD 1 CARU	34-17GW	Protective	\$12,000
WYW154404	4900557876	CARR DRAW V ADD 1 CARU	41-20GW	Protective	\$12,000
WYW154406	4900560525	AUGUSTA UNIT ZETA AUGUSTA	11-4WA	Protective	\$12,000
WYW154849	4901927953	STEWART DRAW	33-1	Protective	\$5,000
WYW155355	4901925046	BULLWHACKER II MOORE TRUST		25-Dec	Protective \$5,000
WYW155355	4901925064	BULLWHACKER II MOORE TRUST	21-25	Protective	\$5,000
WYW155355	4901925043	BULLWHACKER II MOORE TRUST	32-25	Protective	\$5,000
WYW155355	4901925042	BULLWHACKER II MOORE TRUST	41-25	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW155355	4901929723	MOJAVE FED 4277	25-31F-H	Protective	\$125,000
WYW155734	4900557447	WORMWOOD UNIT 1 WU	41-23	Protective	\$12,000
WYW156693	4901926104	WDU BETA WILLIAMS DU	14-10WR	Protective	\$12,000
WYW156693	4901925975	WDU BETA WILLIAMS DU	34-10WR	Protective	\$12,000
WYW156694	4901925185	RIVER UNIT GAMMA LEATH	34-8*	Protective	\$12,000
WYW157763	4901928477	TEAR DROP BOOTJACK		20-Dec Protective	\$12,000
WYW157763	4901928510	TEAR DROP BOOTJACK	32-20	Protective	\$12,000
WYW157763	4901928480	TEAR DROP BOOTJACK	42-20	Protective	\$12,000
WYW157763	4901928479	TEAR DROP FEDERAL	24-20	Protective	\$12,000
WYW158152	4900553571	ALL NIGHT CK V RENO & SONS	14-7	Protective	\$5,000
WYW158152	4900553570	ALL NIGHT CK V RENO & SONS		7-Dec Protective	\$12,000
WYW158152	4900553572	ALL NIGHT CK V RENO & SONS	21-7	Protective	\$12,000
WYW160419	4901927764	EAST BULLWHACKER FEDERAL	34-2	Protective	\$12,000
WYW160419	4901926469	EAST BULLWHACKER MOORE LAND	32-2	Protective	\$12,000
WYW160419	4901926470	EAST BULLWHACKER MOORE LAND	41-2	Protective	\$12,000
WYW161141	4901925543	IOTA ZETA ANADARKO FED	25-32	Protective	\$5,000
WYW161141	4901925572	IOTA ZETA ANADARKO FED	24-34	Protective	\$12,000
WYW161142	4901925567	IOTA ZETA ANADARKO FED	24-43	Protective	\$5,000
WYW161144	4901927109	OMEGA ANADARKO	28-23	Protective	\$12,000
WYW161144	4901928907	WHISKEY DRAWN WDU	23-33	Protective	\$12,000
WYW161144	4901928906	WHISKEY DRAWN WDU	24-33	Protective	\$12,000
WYW161144	4901928905	WHISKEY DRAWN WDU	34-33	Protective	\$12,000
WYW161364	4901927663	EAST BULLWHACKER DRY FORK	32-3	Protective	\$12,000
WYW161649	4900556046	SAVAGETON 4 SAVAGETON	12-17BG	Protective	\$5,000
WYW161649	4900556045	SAVAGETON 4 SAVAGETON	14-17BG	Protective	\$5,000
WYW161649	4900556044	SAVAGETON 4 SAVAGETON	23-17BG	Protective	\$12,000
WYW161928	4901923882	COULTER 2 INDIAN CREEK	34-5BG	Protective	\$5,000
WYW161928	4901923883	COULTER 2 INDIAN CREEK	43-5BG	Protective	\$5,000
WYW161928	4901923880	COULTER 2 INDIAN CREEK	14-5BG	Protective	\$12,000
WYW161928	4901923881	COULTER 2 INDIAN CREEK	23-5BG	Protective	\$12,000
WYW161928	4901923885	COULTER 4 INDIAN CREEK	21-6	Protective	\$12,000
WYW161928	4901923884	COULTER 4 RAWHIDE	12-6*	Protective	\$12,000
WYW161928	4901923886	COULTER 5 FEDERAL	21-7	Protective	\$12,000
WYW161928	4901923311	COULTER 5 FEDERAL	23-7	Protective	\$12,000
WYW161928	4901923887	COULTER 5 FEDERAL	32-7	Protective	\$12,000
WYW161928	4901928034	COULTER 5 FEDERAL	42-7	Protective	\$12,000
WYW161928	4901923306	COULTER 5 FEDERAL	43-7	Protective	\$12,000
WYW162879	4901987806	LAMBDA RHO ANADARKO		Jun-34 Protective	\$5,000
WYW162879	4901926907	LAMBDA RHO ANADARKO FED		14-Jun Protective	\$12,000
WYW16569	4900550748	FLYING T BAR 76 L&D	14-32C	Protective	\$5,000
WYW16569	4900550744	FLYING T DURHAM RANCH	23-33C	Protective	\$5,000
WYW16569	4900550745	FLYING T DURHAM RANCH	34-33C	Protective	\$5,000
WYW16569	4900550746	FLYING T DURHAM RANCH	43-33C	Protective	\$5,000
WYW16569	4900550735	FLYING T DURHAM RANCH	34-32C	Protective	\$5,000
WYW16569	4900522346	NEWTON FED		1 Protective	\$100,000
WYW172632	4900555070	DOUBLE TANK	21-26B	Protective	\$5,000
WYW172632	4900555075	DOUBLE TANK	41-35	Protective	\$5,000
WYW172632	4900549986	DOUBLE TANK		Dec-35 Protective	\$12,000
WYW172632	4900550090	DOUBLE TANK	14-26	Protective	\$12,000
WYW172632	4900549987	DOUBLE TANK	14-35W	Protective	\$12,000
WYW172632	4900549988	DOUBLE TANK	21-35W	Protective	\$12,000
WYW172632	4900555071	DOUBLE TANK	23-26B	Protective	\$12,000
WYW172632	4900549989	DOUBLE TANK	23-35W	Protective	\$12,000
WYW172632	4900555072	DOUBLE TANK	32-26B	Protective	\$12,000
WYW172632	4900549990	DOUBLE TANK	32-35W	Protective	\$12,000
WYW172632	4900549991	DOUBLE TANK	34-35W	Protective	\$12,000
WYW172632	4900555073	DOUBLE TANK	41-26B	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW172632	4900555074	DOUBLE TANK	43-26B	Protective	\$12,000
WYW172632	4900550093	DOUBLE TANK	43-35	Protective	\$12,000
WYW172632	4900550083	MW DOUBLE TANK GWM	23-35BG	Protective	\$12,000
WYW172632	4900550084	MW DOUBLE TANK GWM	23-35W	Protective	\$12,000
WYW172632	4900560827	BEAVER CK ADD II LITTLE BUFFAL	43-25	Protective	\$12,000
WYW173727	4900558310	CARR DRAW II ADD II J MAYCOCK	32-2GW	Protective	\$12,000
WYW173727	4900554932	CARR DRAW II J MAYCOCK	21-2GW	Protective	\$12,000
WYW173727	4900554934	CARR DRAW II M MAYCOCK	14-2GW	Protective	\$12,000
WYW174118	4901923313	COULTER 3 FEDERAL	14-19BG*	Protective	\$12,000
WYW174118	4901923314	COULTER 3 FEDERAL	23-19BG	Protective	\$12,000
WYW174118	4901923272	COULTER 5 CAT CREEK LAND	14-18	Protective	\$12,000
WYW174118	4901923271	COULTER 5 CAT CREEK LAND	23-18	Protective	\$12,000
WYW174118	4901923270	COULTER 5 CAT CREEK LAND	32-18	Protective	\$12,000
WYW174978	4900558086	DRY WILLOW 1	20-21	Protective	\$12,000
WYW174978	4900558087	DRY WILLOW 1	20-32	Protective	\$12,000
WYW177825	4900552760	SAVAGETON I GEER	34-23	Protective	\$5,000
WYW177825	4900552761	SAVAGETON I GEER	41-23	Protective	\$5,000
WYW177825	4900552762	SAVAGETON I GEER	43-23	Protective	\$5,000
WYW177839	4900552692	SAVAGETON I GILBERTZ	34-6	Protective	\$5,000
WYW177839	4900552694	SAVAGETON I GILBERTZ	43-6	Protective	\$5,000
WYW177840	4900553205	SAVAGETON II SAVAGETON	14-32	Protective	\$5,000
WYW177840	4900553204	SAVAGETON II SAVAGETON	23-32	Protective	\$5,000
WYW177840	4900553203	SAVAGETON II SAVAGETON	34-32	Protective	\$5,000
WYW177841	4900552767	SAVAGETON I GROVES RANCH	14-19	Protective	\$5,000
WYW177842	4900552764	SAVAGETON I GEER	21-26	Protective	\$5,000
WYW177842	4900552765	SAVAGETON I GEER	32-26	Protective	\$5,000
WYW177842	4900552766	SAVAGETON I GEER	41-26	Protective	\$5,000
WYW177845	4901923634	RUBY CRAZY WOMAN FEDERAL	1405*	Protective	\$12,000
WYW177845	4901923608	RUBY CRAZY WOMAN FEDERAL		1406 Protective	\$12,000
WYW177845	4901923607	RUBY CRAZY WOMAN FEDERAL		3405 Protective	\$12,000
WYW177845	4901923609	RUBY CRAZY WOMAN FEDERAL		3406 Protective	\$12,000
WYW178102	4900545736	HOE CREEK II GEER	23-18	Protective	\$5,000
WYW178102	4900545747	HOE CREEK II GEER	44-6	Protective	\$5,000
WYW178102	4900537573	PRONGHORN CREEK B PC GEER		17-Nov Protective	\$12,000
WYW178102	4900537568	PRONGHORN CREEK B PC GEER	14-17	Protective	\$12,000
WYW178102	4900537571	PRONGHORN CREEK B PC GEER	22-17	Protective	\$12,000
WYW178102	4900537570	PRONGHORN CREEK B PC GEER	23-17	Protective	\$12,000
WYW178102	4900537567	PRONGHORN CREEK B PC GEER	24-17	Protective	\$12,000
WYW178102	4900537569	PRONGHORN CREEK B PC GEER	33-17	Protective	\$12,000
WYW178102	4900537566	PRONGHORN CREEK B PC GEER	34-17	Protective	\$12,000
WYW178102	4900537575	PRONGHORN CREEK B PC GEER	34-7	Protective	\$12,000
WYW178102	4900537576	PRONGHORN CREEK B PC GEER	43-7	Protective	\$12,000
WYW178102	4900537574	PRONGHORN CREEK B PC GEER	44-7	Protective	\$12,000
WYW178257	4900534872	HAYDEN FEDERAL	21-1-4773	Protective	\$5,000
WYW178257	4900535250	HOE CREEK NORTH DAVIS FED		11/14/4773 Protective	\$5,000
WYW178257	4900535401	HOE CREEK NORTH GHERING FED	44-12	Protective	\$5,000
WYW178257	4900535249	HOE CREEK NORTH LESEWSKI FED	33-12	Protective	\$5,000
WYW178257	4900534630	LESEWSKI FEDERAL	42-12-4773	Protective	\$5,000
WYW178258	4900541995	BONEPILE II HEILAND FEDERAL	31-11	Protective	\$5,000
WYW178258	4900541994	BONEPILE II HEILAND FEDERAL	31-22	Protective	\$5,000
WYW178258	4900542025	BONEPILE II HEILAND FEDERAL	31-31	Protective	\$5,000
WYW178258	4900542026	BONEPILE II HEILAND FEDERAL	31-42	Protective	\$5,000
WYW178258	4900541271	BONEPILE II SAUNDERS FED	19-11	Protective	\$5,000
WYW178258	4900541273	BONEPILE II SAUNDERS FEDERAL	19-12	Protective	\$5,000
WYW178258	4900532680	FEDERAL	31-12	Protective	\$5,000
WYW178258	4900532681	FEDERAL	31-21	Protective	\$5,000
WYW178258	4900532450	HEILAND	31-32	Protective	\$5,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW178258	4900532449	HEILAND	31-41	Protective	\$5,000
WYW178258	4900532457	SQUAIRES	20-23	Protective	\$5,000
WYW178258	4900532456	SQUAIRES	20-24	Protective	\$5,000
WYW178258	4900535892	SQUAIRES	20-34	Protective	\$5,000
WYW178258	4900561876	GEIS FEDERAL	14-30PH	Protective	\$125,000
WYW179794	4900558052	DRY WILLOW 1	24-32	Protective	\$12,000
WYW179794	4900557487	DRY WILLOW 3	24-43	Protective	\$12,000
WYW179794	4900560390	DRY WILLOW 3	34-34	Protective	\$12,000
WYW179794	4900558053	DRY WILLOW 1	24-41	Protective	\$12,000
WYW179794	4900560377	DRY WILLOW 3	27-34	Protective	\$12,000
WYW179794	4900560379	DRY WILLOW 3	27-43	Protective	\$12,000
WYW179794	4900560389	DRY WILLOW 3	34-14	Protective	\$12,000
WYW179794	4900560473	DRY WILLOW 3	34-32	Protective	\$12,000
WYW21220	4900528695	CDU	H81	Protective	\$20,000
WYW21220	4900530652	CDU	H113	Protective	\$100,000
WYW21220	4900524246	CDU	H22-I	Protective	\$100,000
WYW21221	4901926527	KINGWOOD 2 BRUBAKER	14-30	Protective	\$12,000
WYW21221	4901926525	KINGWOOD 2 BRUBAKER	23-30	Protective	\$12,000
WYW21221	4901920978	CDU	H-95	Protective	\$100,000
WYW21221	4901920943	CDU	H-96	Protective	\$100,000
WYW21221	4901920902	CDU	H-84-I	Protective	\$100,000
WYW2488	4900521336	UTE MUDDY SAND		1-Feb Protective	\$100,000
WYW3103	4900524454	HDU	5203W	Protective	\$100,000
WYW31711	4900562135	TRIGGER FED	4176-16-21-1FH	Protective	\$125,000
WYW32825	4900547522	N GOLF FULLER RANCH FED	14-20	Protective	\$5,000
WYW32825	4900547523	N GOLF FULLER RANCH FED	23-20	Protective	\$5,000
WYW32825	4900547521	N GOLF FULLER RANCH FED	34-20	Protective	\$5,000
WYW32825	4900547525	N GOLF FULLER RANCH FED	43-20	Protective	\$5,000
WYW32825	4900525239		95-1	Protective	\$100,000
WYW32826	4900549826	N GOLF FULLER RANCH FED		20-Dec Protective	\$5,000
WYW32826	4900547512	N GOLF FULLER RANCH FED		29-Dec Protective	\$5,000
WYW32826	4900547513	N GOLF FULLER RANCH FED	21-29	Protective	\$5,000
WYW32826	4900549827	N GOLF FULLER RANCH FED	32-20	Protective	\$5,000
WYW32826	4900547511	N GOLF FULLER RANCH FED	32-29	Protective	\$5,000
WYW32826	4900547510	N GOLF FULLER RANCH FED	41-29	Protective	\$5,000
WYW32826	4900525209	CONOCO FED	97-1	Protective	\$20,000
WYW32826	4900525287	FED	94-1	Protective	\$20,000
WYW32826	4900525210	HCSU FED	98-1	Protective	\$20,000
WYW32826	4900556864	FULLER RANCH CARLTON	43-19	Protective	\$5,000
WYW32826	4900556817	FULLER RANCH FULLER	14-32	Protective	\$5,000
WYW32826	4900556818	FULLER RANCH FULLER	23-32	Protective	\$5,000
WYW32826	4900556816	FULLER RANCH FULLER	43-32	Protective	\$5,000
WYW32826	4900556863	FULLER RANCH WRIGHT	34-32	Protective	\$5,000
WYW32826	4900525207	FED	113-1	Protective	\$100,000
WYW33801	4900547515	N WRIGHT DURHAM RANCH	34-28	Protective	\$5,000
WYW33801	4900547517	N GOLF FULLER		28-Dec Protective	\$5,000
WYW33801	4900547792	N GOLF NORTH WRIGHT	23-28	Protective	\$5,000
WYW35222	4901920459	TMU	H-12-9-I	Protective	\$20,000
WYW35756	4900553808	SAVAGETON 4 SAVAGETON	12-22BG	Protective	\$5,000
WYW35756	4900553809	SAVAGETON 4 SAVAGETON	21-22BG	Protective	\$5,000
WYW35756	4900553810	SAVAGETON 4 SAVAGETON	32-22BG	Protective	\$5,000
WYW35756	4900553812	SAVAGETON 4 SAVAGETON	41-22BG	Protective	\$5,000
WYW35756	4900524683	HDU	4222W	Protective	\$100,000
WYW36197	4900555549	HD CBM 2 HARTZOG	41-19BG	Protective	\$12,000
WYW37083	4900522248	WATSABAUGH FED		29-Jan Protective	\$100,000
WYW39581	4901924001	KINGSBURY III FEDERAL	32-9	Protective	\$12,000
WYW39581	4901924003	KINGSBURY III FEDERAL	41-9	Protective	\$12,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW39581	4901920489	CDU	C36	Protective	\$100,000
WYW39819	4900554103	LONE TREE ADD MACKEY-HAIVALA	23-11	Protective	\$5,000
WYW40399	4900553781	SAVAGETON 4 SAVAGETON	21-17BG	Protective	\$5,000
WYW40399	4900553814	SAVAGETON 4 SAVAGETON	43-17BG	Protective	\$5,000
WYW40399	4900553790	SAVAGETON 4 SAVAGETON	41-17BG	Protective	\$12,000
WYW40399	4900553787	SAVAGETON 4 SAVAGETON	32-17BG	Protective	\$12,000
WYW40634	4901923980	KINGWOOD 3 FEDERAL	34-26	Protective	\$12,000
WYW40634	4901924102	KINGWOOD 3 FEDERAL	43-26	Protective	\$12,000
WYW4073	4900554537	HARTZOG DRAW CBM HARTZOG	12-7BG	Protective	\$5,000
WYW4073	4900553083	HARTZOG DRAW CBM HARTZOG	14-31BG	Protective	\$5,000
WYW4073	4900553089	HARTZOG DRAW CBM HARTZOG	21-6BG*	Protective	\$5,000
WYW4073	4900554759	HARTZOG DRAW CBM HARTZOG	34-31BG	Protective	\$5,000
WYW4073	4900524668	HDU		3061 Protective	\$100,000
WYW41473	4900530427	CDU	H117	Protective	\$20,000
WYW41473	4900529432	CDU	H87	Protective	\$20,000
WYW41473	4900530651	CDU	H123	Protective	\$100,000
WYW41473	4900524186	CDU	H28I	Protective	\$100,000
WYW41473	4900524031	CDU	H-23-I	Protective	\$100,000
WYW41473	4900523960	CDU	H21I	Protective	\$100,000
WYW41478	4901921042	TMU FEDERAL	30-35	Protective	\$100,000
WYW41478	4901924713	TABLE MTN TM CBM	35-12	Protective	\$12,000
WYW41478	4901924714	TABLE MTN TM CBM	35-14	Protective	\$12,000
WYW41478	4901924715	TABLE MTN TM CBM	35-21	Protective	\$12,000
WYW41478	4901924716	TABLE MTN TM CBM	35-23	Protective	\$12,000
WYW41478	4901924717	TABLE MTN TM CBM	35-32	Protective	\$12,000
WYW41478	4901924719	TABLE MTN TM CBM	35-34	Protective	\$12,000
WYW41478	4901924720	TABLE MTN TM CBM	35-41	Protective	\$12,000
WYW41478	4901924721	TABLE MTN TM CBM	35-43	Protective	\$12,000
WYW41478	4901921041	TMU	20-35	Protective	\$100,000
WYW41478	4901920421	TMU	T-3	Protective	\$100,000
WYW41478	4901920386	TMU FEDERAL	T-2	Protective	\$100,000
WYW41478	4901920420	TMU	T-4-I	Protective	\$100,000
WYW41478	4901920363	TMU FEDERAL	T-1-I	Protective	\$100,000
WYW41478	4901906344	TMU FEDERAL	1 WSW	Protective	\$25,000
WYW41486	4901920422	TMU FEDERAL	H-7-B	Protective	\$100,000
WYW42595	4900556914	SAVAGETON 4 SAVAGETON	12-19BG	Protective	\$5,000
WYW42595	4900553105	HARTZOG DRAW CBM HARTZOG	14-30BG	Protective	\$5,000
WYW42595	4900553080	HARTZOG DRAW CBM HARTZOG	23-30BG	Protective	\$5,000
WYW42595	4900553079	HARTZOG DRAW CBM HARTZOG	32-30BG	Protective	\$5,000
WYW42595	4900524465	HDU		4303 Protective	\$100,000
WYW42595	4900524713	HDU		4304 Protective	\$100,000
WYW43072	4900530918	HCNU	23-22	Protective	\$100,000
WYW43072	4900531293	HCNU	33-22	Protective	\$100,000
WYW43072	4900531294	HCNU		27-Nov Protective	\$100,000
WYW45716	4900542635	GAP II MESERVE	13-15	Protective	\$5,000
WYW45716	4900527094	DGU AMINOIL FED		14 Protective	\$25,000
WYW48000	4900553104	HD CBM 1 HARTZOG	23-10BG	Protective	\$12,000
WYW48000	4900553102	HD CBM 1 HARTZOG	32-11BG	Protective	\$12,000
WYW48000	4900553088	HD CBM 1 HARTZOG	14-10BG	Protective	\$12,000
WYW48000	4900553094	HD CBM 1 HARTZOG	34-3BG	Protective	\$12,000
WYW48000	4900553109	HD CBM 1 HARTZOG	41-11BG	Protective	\$12,000
WYW48000	4900553093	HD CBM 1 HARTZOG	43-3BG	Protective	\$12,000
WYW48000	4900527766	HDU		4107 Protective	\$100,000
WYW48000	4900532544	HDU		4607 Protective	\$100,000
WYW48000	4900524588	HDU	4034W	Protective	\$100,000
WYW48000	4900527694	HDU		4038 Protective	\$100,000
WYW48000	4900524587	HDU	4103W	Protective	\$100,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW48000	4900524583	HDU	4112	Protective	\$100,000
WYW48000	4900532545	HDU	4605W	Protective	\$100,000
WYW48000	4900587002	HDU WATER SUPPORT	103	Protective	\$25,000
WYW51703	4900528239	HDU	5036	Protective	\$100,000
WYW51703	4900528240	HDU	5038	Protective	\$100,000
WYW51704	4900555667	HD CBM 3 HARTZOG	21-11BG	Protective	\$5,000
WYW51704	4900555617	HD CBM 3 HARTZOG	21-12BG	Protective	\$12,000
WYW51704	4900555637	HD CBM 3 HARTZOG	21-18G	Protective	\$12,000
WYW51704	4900555618	HD CBM 3 HARTZOG	23-12BG	Protective	\$12,000
WYW51704	4900555639	HD CBM 3 HARTZOG	23-18G	Protective	\$12,000
WYW51704	4900555669	HD CBM 3 HARTZOG	32-11BG	Protective	\$12,000
WYW51704	4900555661	HD CBM 3 HARTZOG	32-12BG	Protective	\$12,000
WYW51704	4900555640	HD CBM 3 HARTZOG	34-18G	Protective	\$12,000
WYW51704	4900555671	HD CBM 3 HARTZOG	41-11BG	Protective	\$12,000
WYW51704	4900555620	HD CBM 3 HARTZOG	41-12BG	Protective	\$12,000
WYW51704	4900555621	HD CBM 3 HARTZOG	43-12BG	Protective	\$12,000
WYW51704	4900528120	HDU	5017	Protective	\$100,000
WYW51704	4900528843	HDU	5115	Protective	\$100,000
WYW51704	4900528127	HDU	5116	Protective	\$100,000
WYW51704	4900528122	HDU	5125	Protective	\$100,000
WYW51704	4900528123	HDU	5126	Protective	\$100,000
WYW51704	4900528124	HDU	5128	Protective	\$100,000
WYW51704	4900555146	HDU POD	1151	Protective	\$100,000
WYW51704	4900524189	HDU	5034W	Protective	\$100,000
WYW51704	4900524250	HDU	5112W	Protective	\$100,000
WYW51704	4900524345	HDU	5122W	Protective	\$100,000
WYW51704	4900524301	HDU	5123W	Protective	\$100,000
WYW51704	4900524302	HDU	5124W	Protective	\$100,000
WYW51705	4900555781	HD CBM 2 HARTZOG	12-68G	Protective	\$5,000
WYW51705	4900555779	HD CBM 2 HARTZOG	21-58G	Protective	\$12,000
WYW51705	4900555778	HD CBM 2 HARTZOG	21-68G	Protective	\$12,000
WYW51705	4900555773	HD CBM 2 HARTZOG	41-68G	Protective	\$12,000
WYW51705	4900524536	HDU	4051W	Protective	\$100,000
WYW51705	4900524905	HDU	4061W	Protective	\$100,000
WYW51705	4900524675	HDU	4062W	Protective	\$100,000
WYW51705	4900531614	HDU	4551	Protective	\$100,000
WYW5343	4900559124	CARR DRAW 1 ADD 1 LOVE L&C	34-24GW	Protective	\$5,000
WYW5343	4900559128	CARR DRAW 1 ADD 1 LOVE L&C FED	12-24GW	Protective	\$5,000
WYW5343	4900559125	CARR DRAW 1 ADD 1 LOVE L&C FED	32-24GW	Protective	\$5,000
WYW5343	4900559126	CARR DRAW 1 ADD 1 LOVE L&C	21-24GW	Protective	\$12,000
WYW5343	4900559127	CARR DRAW 1 ADD 1 LOVE L&C	14-24GW	Protective	\$12,000
WYW5343	4900524537	UV FEDERAL	24-Jan	Protective	\$100,000
WYW55069	4900550937	ANTELOPE BRIDLE BIT	Dec-32	Protective	\$5,000
WYW55069	4900550934	ANTELOPE BRIDLE BIT	9-Dec	Protective	\$5,000
WYW55069	4900550938	ANTELOPE BRIDLE BIT	14-32	Protective	\$5,000
WYW55069	4900550939	ANTELOPE BRIDLE BIT	21-32	Protective	\$5,000
WYW55069	4900550996	ANTELOPE BRIDLE BIT	21-9	Protective	\$5,000
WYW55069	4900550940	ANTELOPE BRIDLE BIT	23-32	Protective	\$5,000
WYW55069	4900550930	ANTELOPE BRIDLE BIT	32-5	Protective	\$5,000
WYW55069	4900550941	ANTELOPE BRIDLE BIT	34-32	Protective	\$5,000
WYW55069	4900550931	ANTELOPE BRIDLE BIT	34-5	Protective	\$5,000
WYW55069	4900550932	ANTELOPE BRIDLE BIT	41-5	Protective	\$5,000
WYW55069	4900550942	ANTELOPE BRIDLE BIT	43-32	Protective	\$5,000
WYW55069	4900550933	ANTELOPE BRIDLE BIT	43-5	Protective	\$5,000
WYW55069	4900550935	ANTELOPE BRIDLE BIT	43-9	Protective	\$5,000
WYW55069	4900550926	ANTELOPE STATE	14-4*	Protective	\$5,000
WYW55069	4900550927	ANTELOPE STATE	23-4	Protective	\$5,000

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Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW55069	4900550928	ANTELOPE STATE	34-4	Protective	\$5,000
WYW55069	4900550929	ANTELOPE STATE	43-4	Protective	\$5,000
WYW55069	4900525918	USFS BUZZELL FED	1A	Protective	\$100,000
WYW55069	4900561611	PROJECT 785 ADD CROSSBOW	12-06H	Protective	\$125,000
WYW55069	4900552008	USFS PORK S FEDERAL		3-Dec Protective	\$12,000
WYW55069	4900552010	USFS PORK S FEDERAL	21-3	Protective	\$12,000
WYW55069	4900552011	USFS PORK S FEDERAL	23-3	Protective	\$12,000
WYW5955	4900524316	HDU	5111W	Protective	\$100,000
WYW603	4901927798	TABLE MOUNTAIN 4 TM-CBM FED		14-Jan Protective	\$12,000
WYW603	4901927795	TABLE MOUNTAIN 4 TM-CBM FED		23-Jan Protective	\$12,000
WYW603	4901920400	TMU	H-1-11	Protective	\$100,000
WYW603	4901920986	TMU	14-1-I	Protective	\$100,000
WYW72455	4901920976	CDU	H105	Protective	\$20,000
WYW72455	4901927194	WILLOW CREEK FEDERAL	32-17	Protective	\$12,000
WYW72455	4901927199	WILLOW CREEK FEDERAL	32-8	Protective	\$12,000
WYW72455	4901927159	WILLOW CREEK FEDERAL	34-5	Protective	\$12,000
WYW72455	4901927198	WILLOW CREEK FEDERAL	34-8	Protective	\$12,000
WYW72455	4901927253	WILLOW CREEK FEDERAL	41-17	Protective	\$12,000
WYW72455	4901927197	WILLOW CREEK FEDERAL	41-8	Protective	\$12,000
WYW72455	4901927193	WILLOW CREEK FEDERAL	43-17	Protective	\$12,000
WYW72455	4901927196	WILLOW CREEK FEDERAL	43-8	Protective	\$12,000
WYW72455	4901920982	CDU	H-106	Protective	\$100,000
WYW72455	4901920938	CDU	H-93	Protective	\$100,000
WYW72455	4901920145	CDU	A1I	Protective	\$100,000
WYW72455	4901920176	CDU	A3I	Protective	\$100,000
WYW72455	4901920197	CDU	A4I	Protective	\$100,000
WYW72455	4901920311	CDU	A5I	Protective	\$100,000
WYW72455	4901920894	CDU	H83-I	Protective	\$100,000
WYW72462	4901927192	WILLOW CREEK FEDERAL	14-32	Protective	\$12,000
WYW72462	4901927143	WILLOW CREEK FEDERAL	23-32	Protective	\$12,000
WYW72462	4901920898	CDU	H82-I	Protective	\$100,000
WYW72471	4901920239	CDU	H9-I	Protective	\$20,000
WYW72471	4901926520	KINGWOOD 2 BRUBAKER		31-Dec Protective	\$12,000
WYW72471	4901926519	KINGWOOD 2 BRUBAKER	21-31	Protective	\$12,000
WYW72471	4901926518	KINGWOOD 2 BRUBAKER	41-31	Protective	\$12,000
WYW72471	4901926517	KINGWOOD 2 BRUBAKER	43-31	Protective	\$12,000
WYW72471	4901920965	CDU	H-110	Protective	\$100,000
WYW72471	4901920963	CDU	H-111	Protective	\$100,000
WYW72471	4901920967	CDU	H-112	Protective	\$100,000
WYW72485	4900555641	HD CBM 3 HARTZOG	43-18G	Protective	\$12,000
WYW75841	4900532237	RED TOP DRAW DOUD	21-35	Protective	\$5,000
WYW85359	4901924022	KINGSBURY III FEDERAL	14-4*	Protective	\$12,000
WYW85359	4901924017	KINGSBURY III FEDERAL	43-4	Protective	\$12,000
WYW85359	4901923989	KINGSBURY III FEDERAL		10-Dec Protective	\$12,000
WYW85359	4901923991	KINGSBURY III FEDERAL	21-10	Protective	\$12,000
WYW85359	4901927385	KINGSBURY III FEDERAL	23-10	Protective	\$12,000
WYW85359	4901924021	KINGSBURY III FEDERAL	23-4	Protective	\$12,000
WYW85359	4901923993	KINGSBURY III FEDERAL	32-10	Protective	\$12,000
WYW85359	4901923994	KINGSBURY III FEDERAL	34-10	Protective	\$12,000
WYW85359	4901924019	KINGSBURY III FEDERAL	34-4	Protective	\$12,000
WYW85359	4901926825	KINGSBURY III FEDERAL	41-10	Protective	\$12,000
WYW85359	4901926813	KINGSBURY III FEDERAL	43-10R	Protective	\$12,000
WYW85359	4901924026	KINGWOOD 1 FEDERAL	14-3	Protective	\$12,000
WYW85359	4901924025	KINGWOOD 1 FEDERAL	23-3	Protective	\$12,000
WYW85359	4901925307	CDU		140 Protective	\$100,000
WYW85359	4901925309	CDU		141 Protective	\$100,000
WYW85359	4901920959	CDU	C102	Protective	\$100,000

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW85359	4901920253	CDU	C19-I	Protective	\$100,000
WYW85359	4901920325	CDU	C24-I	Protective	\$100,000
WYW85359	4901920367	CDU	C31-I	Protective	\$100,000
WYW85360	4901920211	CDU	C5-I	Protective	\$20,000
WYW85360	4901920237	CDU	C12-I	Protective	\$20,000
WYW85360	4901924038	KINGSBURY IV FEDERAL	34-23	Protective	\$12,000
WYW85360	4901921044	CDU	C132	Protective	\$100,000
WYW85360	4901923983	KINGSBURY III FEDERAL	14-11	Protective	\$12,000
WYW85360	4901924041	KINGSBURY IV FEDERAL	21-23	Protective	\$12,000
WYW85360	4901924006	KINGSBURY IV FEDERAL	41-15	Protective	\$12,000
WYW85360	4901923985	KINGWOOD 1 FEDERAL	23-11	Protective	\$12,000
WYW85360	4901924012	KINGWOOD 1 IBERLIN RANCH		14-Dec Protective	\$12,000
WYW85360	4901924011	KINGWOOD 1 IBERLIN RANCH	14-14	Protective	\$12,000
WYW85360	4901924010	KINGWOOD 1 IBERLIN RANCH	21-14	Protective	\$12,000
WYW85360	4901924009	KINGWOOD 1 IBERLIN RANCH	23-14	Protective	\$12,000
WYW85360	4901924039	KINGWOOD 2 FEDERAL	32-23	Protective	\$12,000
WYW85360	4901924037	KINGWOOD 2 FEDERAL	41-23	Protective	\$12,000
WYW85360	4901924036	KINGWOOD 2 FEDERAL	43-23	Protective	\$12,000
WYW85360	4901920992	CDU	C122	Protective	\$100,000
WYW85360	4901920247	CDU	C16-I	Protective	\$100,000
WYW85360	4901920210	CDU	C4-I	Protective	\$100,000
WYW85360	4901920813	CDU	C79-I	Protective	\$100,000
WYW85361	4901920216	CDU	H5-I	Protective	\$20,000
WYW85361	4901924115	KINGWOOD 2 BRUBAKER		25-Dec Protective	\$12,000
WYW85361	4901924113	KINGWOOD 2 BRUBAKER	21-25	Protective	\$12,000
WYW85361	4901924111	KINGWOOD 2 BRUBAKER	32-25	Protective	\$12,000
WYW85361	4901924110	KINGWOOD 2 BRUBAKER	34-25	Protective	\$12,000
WYW85361	4901924109	KINGWOOD 2 BRUBAKER	41-25	Protective	\$12,000
WYW85361	4901924108	KINGWOOD 2 BRUBAKER	43-25	Protective	\$12,000
WYW85361	4901920964	CDU	H109	Protective	\$100,000
WYW85361	4901920983	CDU	H115	Protective	\$100,000
WYW85361	4901920989	CDU	H121	Protective	\$100,000
WYW85361	4901920956	CDU	H89	Protective	\$100,000
WYW85361	4901920939	CDU	H92	Protective	\$100,000
WYW85361	4901920241	CDU	H15-I	Protective	\$100,000
WYW85361	4901920155	CDU	H6-I	Protective	\$100,000
WYW85372	4901925305	COULTER 2 INDIAN CREEK	14-4BG*	Protective	\$12,000
WYW85372	4901925303	COULTER 2 INDIAN CREEK	34-4BG	Protective	\$12,000
WYW89849	4901924092	KINGSBURY IV FEDERAL	14-15	Protective	\$12,000
WYW89849	4901924091	KINGSBURY IV FEDERAL	23-15	Protective	\$12,000
WYW89851	4901927149	WILLOW CREEK ADD III FEDERAL		12/13/4577 Protective	\$12,000
WYW89851	4901923971	KINGWOOD 3 FEDERAL	12-1*	Protective	\$12,000
WYW89851	4901923958	KINGWOOD 3 FEDERAL		12-Dec Protective	\$12,000
WYW89851	4901923970	KINGWOOD 3 FEDERAL	14-1	Protective	\$12,000
WYW89851	4901923968	KINGWOOD 3 FEDERAL	23-1	Protective	\$12,000
WYW89851	4901923966	KINGWOOD 3 FEDERAL	34-1	Protective	\$12,000
WYW89851	4901927163	WILLOW CREEK NC	41-13	Protective	\$12,000
WYW89851	4901927213	WILLOW CREEK NC FEDERAL	14-7*	Protective	\$12,000
WYW89851	4901927175	WILLOW CREEK NC FEDERAL	21-13	Protective	\$12,000
WYW89853	4901929939	TABLE MOUNTAIN DEEP TMFU	10-12SH-H	Protective	\$125,000
WYW89855	4900559373	WILLOW CR ADD I CHRISTENSEN	12-4*	Protective	\$12,000
WYW89855	4900559374	WILLOW CR ADD I CHRISTENSEN	32-4	Protective	\$12,000
WYW89856	4901920607	CONOCO FED		19-Jan Protective	\$20,000
WYW89856	4901920950	CONOCO-FEDERAL		2 Protective	\$20,000
WYW89856	4901926531	KINGWOOD 2 BRUBAKER	14-19	Protective	\$12,000
WYW89856	4901926526	KINGWOOD 2 BRUBAKER	21-30	Protective	\$12,000
WYW89856	4901926532	KINGWOOD 2 BRUBAKER	12-19*	Protective	\$12,000

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW89856	4901928261	KINGWOOD 2 BRUBAKER		30-Dec Protective	\$12,000
WYW89856	4901926530	KINGWOOD 2 BRUBAKER	21-19	Protective	\$12,000
WYW89856	4901926529	KINGWOOD 2 BRUBAKER	23-19	Protective	\$12,000
WYW89856	4901926524	KINGWOOD 2 BRUBAKER	32-30	Protective	\$12,000
WYW89856	4901928260	KINGWOOD 2 BRUBAKER	34-19	Protective	\$12,000
WYW89856	4901926523	KINGWOOD 2 BRUBAKER	34-30	Protective	\$12,000
WYW89856	4901926522	KINGWOOD 2 BRUBAKER	41-30	Protective	\$12,000
WYW89856	4901926528	KINGWOOD 2 BRUBAKER	43-19	Protective	\$12,000
WYW89856	4901926521	KINGWOOD 2 BRUBAKER	43-30	Protective	\$12,000
WYW89856	4901928081	WILLOW CR ADD I BRUBAKER	32-19	Protective	\$12,000
WYW89856	4901928079	WILLOW CR ADD I BRUBAKER	41-19	Protective	\$12,000
WYW89856	4901920947	CONOCO-FEDERAL		1 Protective	\$100,000
WYW89857	4901923997	KINGSBURY III FEDERAL		9-Dec Protective	\$12,000
WYW89857	4901923999	KINGSBURY III FEDERAL	21-9	Protective	\$12,000
WYW89858	4901924107	KINGWOOD 3 FEDERAL		26-Dec Protective	\$12,000
WYW89858	4901924101	KINGWOOD 3 FEDERAL		27-Dec Protective	\$12,000
WYW89858	4901924106	KINGWOOD 3 FEDERAL	21-26	Protective	\$12,000
WYW89858	4901924099	KINGWOOD 3 FEDERAL	32-27	Protective	\$12,000
WYW89858	4901924098	KINGWOOD 3 FEDERAL	41-27	Protective	\$12,000
WYW89862	4901927948	KINGWOOD 1 IBERLIN RANCH		17-Dec Protective	\$12,000
WYW89863	4901924035	KINGWOOD 1 FEDERAL		1-Dec Protective	\$12,000
WYW89863	4901923982	KINGWOOD 1 FEDERAL		11-Dec Protective	\$12,000
WYW89863	4901924030	KINGWOOD 1 FEDERAL	14-2	Protective	\$12,000
WYW89863	4901923984	KINGWOOD 1 FEDERAL	21-11	Protective	\$12,000
WYW89863	4901924033	KINGWOOD 1 FEDERAL	23-1	Protective	\$12,000
WYW89863	4901924029	KINGWOOD 1 FEDERAL	23-2	Protective	\$12,000
WYW89863	4901923986	KINGWOOD 1 FEDERAL	32-11	Protective	\$12,000
WYW89863	4901924032	KINGWOOD 1 FEDERAL	34-1	Protective	\$12,000
WYW89863	4901924024	KINGWOOD 1 FEDERAL	34-3	Protective	\$12,000
WYW89863	4901923987	KINGWOOD 1 FEDERAL	41-11	Protective	\$12,000
WYW89863	4901924027	KINGWOOD 1 FEDERAL	43-2	Protective	\$12,000
WYW89863	4901924023	KINGWOOD 1 FEDERAL	43-3	Protective	\$12,000
WYW89864	4901924122	KINGWOOD 1 FEDERAL	34-11	Protective	\$12,000
WYW89864	4901923988	KINGWOOD 1 FEDERAL	43-11	Protective	\$12,000
WYW91380	4900537390	21 MI BUTTE PHILLIPS FED	11-26 CBM	Protective	\$5,000
WYW91380	4900537388	21 MI BUTTE PHILLIPS FED	22-26 CBM	Protective	\$5,000
WYW91380	4900537393	21 MI BUTTE PHILLIPS FED	31-26 CBM	Protective	\$5,000
WYW91380	4900537389	21 MI BUTTE PHILLIPS FED	42-26 CBM	Protective	\$5,000
WYW91380	4900547705	MANKIN PHILLIPS	43-26	Protective	\$5,000
WYW91380	4900529293	PHILLIPS FED	31-26	Protective	\$5,000
WYW91380	4900530695	PHILLIPS FED		26-Nov Protective	\$100,000
WYW91380	4900531073	PHILLIPS FED	22-26	Protective	\$100,000
WYW92023	4900527604	WILDHORSE FED		1 Protective	\$100,000
WYW92023	4900527603	WILDHORSE FED		2 Protective	\$100,000
WYW96875	4900549924	S THUNDERHEAD ARCH	34-34	Protective	\$5,000
WYW96875	4900549925	S THUNDERHEAD ARCH	43-34	Protective	\$5,000
WYW96875	4900532294	FEDERAL	31-34	Protective	\$5,000
WYW96875	4900563321	JIBILIAN FED	44-28 28-21T2H	Protective	\$125,000
WYW98030	4900545841	WILD HORSE CREEK HOWELL	43-7BG	Protective	\$5,000
WYW98030	4900545836	WILD HORSE CREEK BAR 76 L&D	21-4 *	Protective	\$5,000
WYW98030	4900553983	ALBATROSS RIDGERUNNER CS		4 Protective	\$12,000
WYW98030	4900553981	ALBATROSS RIDGERUNNER CS COM		2 Protective	\$12,000
WYW98030	4900553982	ALBATROSS RIDGERUNNER CS COM		3 Protective	\$12,000
WYW98030	4900533374	RIDGERUNNER CS		1 Protective	\$12,000
WYW98030	4900550620	RIVERBEND RIDGERUNNER CS		8 Protective	\$12,000
WYW98030	4900550272	RIVERBEND RIDGERUNNER CS COM		5 Protective	\$12,000
WYW98030	4900554404	RIVERBEND RIDGERUNNER CS COM		6 Protective	\$12,000

Buffalo Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW98030	4900531560	MW BAR 76	1-42-1	Protective	\$12,000
WYW99013	4900546038	CENTRAL HAY CREEK DURHAM RANCH		23-Dec Protective	\$5,000
WYW99013	4900544711	LITTLE THUNDER STUART	34-35	Protective	\$5,000
WYW99013	4900544710	LITTLE THUNDER STUART	43-35	Protective	\$5,000
WYW99013	4900545977	S HAY CREEK DURHAM RANCH	21-23 4472	Protective	\$5,000
WYW99013	4900545992	S HAY CREEK STUART	12-25 4472	Protective	\$5,000
WYW99013	4900545975	S HAY CREEK STUART	14-25 4472	Protective	\$5,000
WYW99013	4900545991	S HAY CREEK STUART	21-25 4472	Protective	\$5,000
WYW99013	4900545974	S HAY CREEK STUART	23-25 4472	Protective	\$5,000
WYW99013	4900545990	S HAY CREEK STUART	32-25 4472	Protective	\$5,000
WYW99013	4900545988	S HAY CREEK STUART	32-26 4472	Protective	\$5,000
WYW99013	4900545973	S HAY CREEK STUART	34-25 4472	Protective	\$5,000
WYW99013	4900545987	S HAY CREEK STUART	34-26 4472	Protective	\$5,000
WYW99013	4900545986	S HAY CREEK STUART	41-26 4472	Protective	\$5,000
WYW99013	4900545972	S HAY CREEK STUART	43-25 4472	Protective	\$5,000
WYW99013	4900545985	S HAY CREEK STUART	43-26 4472	Protective	\$5,000
WYW99013	4900545976	S HAY CREEK SUNRISE	23-23 4472	Protective	\$5,000
WYW99013	4900545984	S HAY CREEK STUART	32-35 4472	Protective	\$5,000
WYW99013	4900562203	MCGEE MCGEE FED	264472-4TH	Protective	\$125,000
				Total	\$62,866,000

Casper Field Office.Moriah Proof of Claim Well list.Abbreviated

Lease	API Number	Well Name	Num	Protective or Actual Liability	Estimated Cost
WYW030207	4900921982	Bittern	1	Protective	\$30,000

Reclamation Costs and Regulation of Oil and Gas Development with Application to Wyoming

Matt Andersen, Roger Coupal, and Bridgette White¹

Introduction

Boom and bust in Wyoming's energy sector is common and almost expected in the Rocky Mountain West's economy. However, the current energy boom in Wyoming has resulted in substantially more development than previous booms. For example, in the period 1988 to 1998 well counts grew at an annual average rate of 15 percent per year compared to 41 percent per year in the period 1998 to 2008.² As energy production increases there is growing concern about the pace of development and issues related to the reclamation of disturbed lands.

This study draws from a previous work by Andersen and Coupal (2009) that analyzed costs and policies that affect land reclamation decisions by oil and gas firms. We begin by providing a brief description of the current regulatory setting that governs the oil and gas industry in Wyoming and focus our attention on reclamation bonding requirements, which are intended to insure the proper reclamation of disturbed land. The most important issue affecting the decision to reclaim is the cost of reclaiming the disturbed land (although other factors such as clear reclamation guidelines and standards set by land management agencies are important as well). Therefore, we provide a detailed analysis of the cost of reclaiming orphaned wells in Wyoming using data provided by the Wyoming Oil and Gas Conservation Commission (WOGCC). The results are used to predict the current reclamation costs for Wyoming's oil and gas industry and to provide information on ways to improve the current bonding system.

As of 2009, there were more than 60,000 active oil and gas wells in the state operated by approximately 900 separate firms. This level of activity suggests that reclamation issues will become more important in the future as these wells are plugged and released or abandoned. Factors that become important in successful reclamation include the regulatory environment, industry structure, and environmental factors associated with the specific location of the field or well. Given the sheer number of wells and their distribution across varying ecological and precipitation regimes, as well as the sharp increase in development over the past decade, the structure and expectations of reclamation regulations becomes an important policy issue for State and Federal Agencies.

Regulatory Structure and Bonding Requirements

The Bureau of Land Management (BLM) is the main regulatory agency for oil and gas development on federal land. There are two aspects to the BLM's regulatory structure that are part of the reclamation decision and performance: the stated goals of reclamation and the

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² Authors calculations based on WOGCC data, available on line at <http://wogcc.state.wy.us>

bonding parameters. The BLM's land management objective over the years has been to reclaim up to the level that minimizes spillover damages on associated tracts. Reclamation in this federal regulation [43 CFR 23.3] is defined as follows:

“...Reclamation means measures undertaken to bring about the necessary reconditioning or restoration of land or water that has been affected by exploration or mineral development, mining or onsite processing operations, and waste disposal, in ways which will prevent or control onsite and offsite damage to the environment.”

The BLM focus was on minimizing off-site damages. The language in the rule under proposal now dramatically expands the scope of what is expected of reclamation (Lahti, 2009). The proposed rule focuses on both short term and long term goals, and establishes reconstruction of the previous ecosystem as priority:

"Short term goal: immediately stabilize disturbed areas and provide conditions necessary to achieve the long term goal. Long term goal: facilitate eventual ecosystem reconstruction to maintain a safe and stable landscape and meet the desired outcomes of the land use plan." [Lahti, 2009]

The interesting difference is the reference to ecosystem parameters that existed before the development. This suggests a higher standard than the guidelines that governed previous operating procedures.

A second aspect of the existing regulation is the reclamation bond. An environmental bond represents a guarantee against the failure to cure environmental damage from mining (Webber, 1985). A study conducted by the Political Economy Research Center (Gerard, 2000) concluded that bonding “is a market-based enforcement mechanism that relies on financial incentives and reputation effects to deliver site reclamation at the lowest possible cost.” Some of the potential advantages of reclamation bonds include increasing the probability of reclamation and regulatory flexibility in monitoring and enforcement activities. Bonding mechanisms also have inherent limitations such as the opportunity costs associated with investment of firm resources in bonds, administrative costs, and legal restrictions (Shogren, 1993).

Bonding can occur through various instruments: cash outlays, capital liens, or surety bond companies who pay the bond on promise that the reclamation will be completed by the oil and gas company. The latter approach allows companies to minimize cash outlays to cover bonds, and is a common practice in the industry. However, recent reports on the surety bond market suggest that a market approach to bonding may be limited (Kirschner and Grandy, 2002). Surety bonds are increasingly difficult to secure because of general market conditions and higher risk.

The current bonding requirements for oil and gas development depends on the type of land under development, with slightly different regulation covering federal land as opposed to state and private land. The Bureau of Land Management (BLM) has authority to require a bond under the Mineral Leasing Act (MLA), and the current fees range from \$10,000 for a single lease that may cover multiple wells to \$150,000 for a national blanket bond that covers all production activities (across state-lines) and often cover hundreds of wells under a single blanket bond. In addition, producers can apply for a blanket bond of only \$25,000 to cover all the wells drilled within one state. In Wyoming, the WOGCC sets the bonding requirements for

private lands and they are similar to the federal requirements although the WOGCC has recently made some changes to the rules including adding a fee for idle wells.³

The biggest weakness of the current bonding requirements is that they are not linked to production, but are instead a fixed cost that is essentially a sunk cost from the perspective of the operator. The bonding requirements are poorly designed, and the bond amounts posted are low relative to the cost of actually performing the reclamation, which is the subject of the remainder of this study. Given accurate reclamation cost estimates, appropriate bonding requirements can be established that fully account for the cost of reclamation.

Reclamation Costs for Orphaned Wells

The following analysis of the cost of reclaiming land disturbed by oil and gas development in Wyoming was conducted using data from the WOGCC.⁴ The cost figures represent the actual costs incurred by WOGCC in the process of fully reclaiming a total of 48 separate locations on fee lands that included a total of 255 orphaned wells in Wyoming from 1997-2007.⁵ As a starting point, Table 1 shows the actual cost, bond amount, and variance (difference between cost and bond) for the full set of 255 wells: 1) per foot of drilling depth; and 2) per well.

Table 1: Orphaned Oil & Gas Wells in Wyoming (1997-2007)

	Actual Cost	Bond	Variance
Per foot	\$10.01	\$1.59	\$8.42
Per well	\$27,555	\$5,302	\$22,253

Notes:

- a. Averages from full database (48 locations and 255 wells).
- b. Includes orphaned wells with no bond posted.

The actual cost of the full reclamation of the 255 wells was \$10.01 per foot of well depth, and approximately \$27,555 per well. The bond per foot of well depth was \$1.59, and per well was \$5,302. Part of the reason why the bond amount per foot of well depth and per well seems low is because the full sample includes some wells that had no bond posted, as their development likely pre-dated the bonding regulations. However, this gives a good indication of the variance that currently exists in Wyoming because there is a mix of older wells with no bond posted, and newer wells that are fully bonded. The existence of the older un-reclaimed wells with no bond posted places an added financial burden on the state, above and beyond insuring that funds are available in the future to reclaim current development.

³ The WOGCC has the authority to set additional bonding requirements for State and fee lands, among which includes the option of imposing an additional fee of \$10 per foot of drilling depth for idle wells. See WOGCC Rules and Statutes, revised Chapter 3, Section 4(c). Available on line <http://wogcc.state.wy.us/rules-statutes.cfm?Skip='Y'>.

⁴ The data in this analysis were provided by Don Likwartz, *State Oil and Gas Supervisor*, WOGCC (Fall 2008).

⁵ It is important to note that the funds for reclaiming orphaned wells in Wyoming come from a mill-levy paid by the oil and gas industry, and do not come from the general tax fund.

Table 2 shows descriptive statistics clustered by single and multiple well locations. The first thing to note is that on a depth-per-well basis, single-well locations are substantially deeper than multiple-well locations. Single-well locations averaged 4,602 feet / well, and multiple-well locations averaged 2,038 feet / well. The average cost per foot of drilling depth is similar between single and multiple well locations; however, the cost per well is very different. The cost per well at multiple well locations was much less than single well locations (\$13,681 and \$35,880 respectively). The large difference in the cost per well is mostly a result of the fact that single well locations are on average deeper than the multiple well locations. Also, reclamation is a capital intensive process that requires moving heavy machinery to remote locations, and therefore it is likely cost effective to reclaim multiple wells at a given location, and this would imply a lower cost per well relative to single well locations. Finally, the variance between the bond and the reclamation cost was also much larger for single well locations. This is probably because single well locations tend to have lower bonding requirements and higher per well reclamation costs relative to multiple well locations.

Table 2: Orphaned Oil & Gas Wells in Wyoming 1997-2007 (Clustered by Single Well and Multiple Well Reclamation Sites)

	Single Well	Multiple Well	Difference
Number of wells	1	12.5	
Depth (feet)	4,602	35,751	
Depth per well (feet)	4,602	2,038	2,564
Total cost (\$)	\$35,880	\$202,028	
Cost per foot (\$)	\$9.77	\$10.41	-\$0.64
Cost per well (\$)	\$35,880	\$13,681	\$22,199
Bond (\$)	\$5,733	\$29,556	
Bond per foot (\$)	\$0.89	\$2.77	-\$1.88
Bond per well (\$)	\$5,733	\$4,584	\$1,150
Variance (\$)	\$31,695	\$194,609	
Variance per well (\$)	-\$30,146	-\$172,472	\$142,326

Notes:

- a. All figures are simple averages and include locations with no bond posted.
- b. Single well averages include 30 observations (30 wells).
- c. Multiple well averages include 18 observations with a total of 225 wells.

Our cost analysis also revealed a very strong relationship between the total drilling depth at any location and the total cost of reclamation. The simple correlation between these variables is 0.985. The strength of this correlation suggests one simple method for estimating the total outstanding reclamation bill for Wyoming's oil and gas industry. To do this we used additional data from WOGCC that includes most of the active wells in Wyoming, and wells that are inactive

but un-reclaimed (or under-reclaimed). The data includes 60,403 active wells under various classifications.⁶ The total drilling depth for all 60,403 wells is 260,819,811 feet. Recall that reclamation costs were \$10.01 / foot in our orphaned well database. Using this estimate, we calculated the current potential total outstanding reclamation costs for Wyoming as: (260,819,811 cumulative feet of well depth) × (\$10.01 / foot) = \$2.61 billion. It is important to note that we are not implying that the public will pay for this reclamation cost as most of these costs will be paid by legitimate oil and gas producers. However, the number is a good indication of the size of the reclamation task ahead.

Parametric Estimates of Reclamation Costs

In this section we specify a model of reclamation costs and obtain parametric estimates of costs using the WOGCC orphaned well data, as well as some additional data from the Bureau of Land Management (BLM).⁷ The combination of the BLM and WOGCC data resulted in 67 orphaned well locations that were reclaimed in the period 1997 to 2007. We pooled all of the observations into a single database to obtain parametric estimates of reclamation costs.⁸ Table 3 shows descriptive statistics for the variables in the regression analysis.

Table 3: Descriptive Statistics by Location of Orphaned Wells

<i>Variable</i>	<i>Mean</i>	<i>S.D. Mean</i>	<i>Min</i>	<i>Max</i>
Cost (\$)	82,082	33,392	658	2,135,217
Depth (feet)	14,134	6,525	295	430,867
Cost per well (\$/well)	30,340	7,134	569	428,656
Depth per well (feet/well)	4,220	419	148	14,824
Number of wells	4.18	1.37	1	57
Precipitation index	2.22	0.08	1	3

Source: WOGCC and BLM orphaned well database compiled by authors.

Notes:

- Orphaned well locations include single and multiple well sites.
- The total number of observations (locations) is $N = 67$.
- The total number of wells in all locations is 280.
- The precipitation index (P) is a 30-year average from 1971-2002, and is equal to 1 if $0 < P \leq 10$ inches, is equal to 2 if $10 < P \leq 25$ inches, and is equal to 3 if $P > 25$ inches of average annual precipitation.

⁶ Most of the WOGCC data used in this study are available on line: <http://wogcc.state.wy.us/>. Note that the WOGCC database is constantly updated and our data represent most but not all of the current active wells.

⁷ The BLM data include 19 orphaned well locations provided by the Cheyenne office.

The sample includes a total of 280 orphaned wells at 67 separate locations, for an average of 4.18 wells per location. The average cost of the locations is \$80,082, and the average cost per well (among the locations) is \$30,340. The average drilling depth per location is 14,134 feet, and the average depth per well is 4,220. The total drilling depth among all 67 locations is 946,978 feet.

In the following regression analysis we specify a ‘Hedonic’ cost function for reclamation, where the total cost of reclamation in each location is assumed to be a function of three primary attributes, the number of wells per location, the total drilling depth per location, and the 30-year average of annual precipitation at the location. The number of wells and the drilling depth are obvious factors affecting the total cost of reclamation at each location. The precipitation index was also included as an environmental control variable. The logic of including the precipitation index is that areas with higher average precipitation are likely to experience relatively more natural re-vegetation while a well is under production compared to arid areas, and this is hypothesized to reduce final reclamation costs. The estimating equation is specified as:

$$C_i = \alpha_0 + \alpha_1 W_i + \alpha_2 D_i + \alpha_3 P_i + \epsilon_i \quad (1)$$

Where for each location $i = 1, 2, \dots, 67$, C_i is the total cost of reclamation, W_i is the number of wells, D_i is the total drilling depth, P_i is the 30-year average of precipitation, and ϵ_i is an i.i.d. error term with zero mean and constant variance. Equation (1) was estimated using an Ordinary Least Squares (OLS) estimation procedure and the results are presented in Table 4.

Table 4: OLS Regression Results

Dependent variable = Total Cost	
Variable	Coefficient (t-stat)
Wells	1,560* (1.79)
Depth	4.80*** (26.23)
Precipitation	-22,059** (-2.24)
Intercept	56,761** (2.48)
<hr/>	
<i>Goodness-of-fit</i>	
Adjusted R-squared	0.9593

Notes:

- a. Number of observations = 67.
- b. Calculated *t*-statistics in parentheses.
- c. *** denotes statistically significant at the 1% level, ** denotes statistically significant at the 5% level, and * denotes statistically significant at the 10% level.

The adjusted *R*-squared indicates that the independent variables jointly describe approximately 95 percent of total reclamation costs. The depth variable is highly significant and the wells variable is statistically significantly different from zero at the 10 percent level of significance. The precipitation variable and the intercept are also statistically significant at the 5 percent level.⁹ Using the econometric results we obtained predicted costs for the current active wells in Wyoming based on the three key variables – number of wells, depth, and precipitation. The formula for the predicted cost, \hat{C}_i , of any location *i* is defined by Equation (2).

$$\hat{C}_i = 56761 + 1560 \times W_i + 4.80 \times D_i - 22059 \times P_i \quad (2)$$

The results show that there is a substantial fixed cost equal to \$56,761 for each reclamation location. However, because the data are organized by location (the cost estimates are by location not per well), some additional modifications are necessary to obtain a prediction of cost per well. From Table 3 we can see the average number of wells per location in this database is 4.18, implying a fixed cost of \$13,584 per well.¹⁰ The fixed costs are independent of the number of wells and drilling depth, and probably the largest fixed cost is related to road reclamation.

The variable costs of reclamation are related to the number of wells and total drilling depth per location. For each additional well drilled at a given location total costs increase by \$1,560, and for each additional foot of drilling depth total costs increase by \$4.80. Furthermore, reclamation costs are reduced in areas with higher precipitation. However, the interpretation of the estimated coefficient on precipitation is not as straightforward because the precipitation variable is not continuous (it is an indicator variable). The negative \$22,059 estimate can be interpreted as a \$22,059 reduction in the cost per location as we move from one precipitation classification to next. On a per well basis this is equal to \$5,277.¹¹ The predicted cost, \hat{C}_j , for any well *j* is then given by Equation (3):

$$\hat{C}_j = \left(\frac{\hat{\beta}_0}{\bar{W}} + \hat{\beta}_1 \right) + \hat{\beta}_2 D_j + \frac{\hat{\beta}_3 P_j}{\bar{W}} \quad (3)$$

Where \bar{W} is the average number of wells per location. Note that in equation (3) we assume that the variable cost of an additional foot of drilling depth is the same as for Equation (1), but in Equation (3) the data are now on a per well basis as denoted by the subscript *j*. Predicted costs can then be calculated for any individual well using Equation (3) and the regression results

⁹ We also conducted two diagnostic tests, including a Breusch-Pagan Test for heteroscedasticity, and a Ramsey RESET Test for omitted variables. The Breusch-Pagan Test indicated that we fail to reject the null hypothesis of constant variance and the Ramsey RESET Test indicated that we fail to reject the null hypothesis of no omitted variables.

¹⁰ This estimate is \$56,761 divided by the average number of wells per location = 4.18.

¹¹ This estimate is \$22,059 divided by the average number of wells per location = 4.18.

$$\hat{C}_j = 15144 + 4.80 \times D_j - 5277 \times P_j \quad (4)$$

And the total predicted costs for any group of wells $j = 1, 2, \dots, J$ is:

$$\sum_{j=1}^J \hat{C}_j = J \times \left(\frac{\hat{\beta}_0}{W} + \hat{\beta}_1 \right) + \hat{\beta}_2 \sum_{j=1}^J D_j + \hat{\beta}_3 \sum_{j=1}^J P_j \quad (5)$$

Plugging in our estimated coefficients we can calculate the total reclamation bill for Wyoming:

$$\sum_{j=1}^J \hat{C}_j = J \times 15144 + 4.80 \times \sum_{j=1}^J D_j - 5277 \times \sum_{j=1}^J P_j \quad (6)$$

Using Equations (4) and/or (6) we can obtain predicted cost estimates for reclaiming an individual well, an average well, and/or all active oil and gas wells in Wyoming. Evaluating Equation (6) at the means of the variables results in an estimated cost per well equal to \$23,662. The 95 percent confidence interval for this estimate is \$20,427 to \$26,897, implying we can be 95 percent confident that this interval contains the true average cost of reclaiming a well in Wyoming. What is the total reclamation bill for the entire state? We can answer this two ways: 1) multiply the estimated average cost per well by the number of active wells; and 2) plug J , $\sum D_j$, and $\sum P_j$ directly into Equation (6) and evaluate. The number of active wells in our WOGCC database is 60,403. Using the first method we get (\$23,662 per well) \times (60,403 wells) = \$1.43 billion. Method two results in a total reclamation cost of \$1.46 billion.

Finally, within the WOGCC orphaned well database there is a subset of 25 fully bonded locations with data on the bond amount that was posted and ultimately forfeited to the WOGCC. The sample of 25 locations includes a total of 220 wells, and the average bond per well was equal to \$10,180. Given this is a relatively small sample of wells, and the fact that the data only include State and fee lands (no federal lands), the statewide average of bond per well may be substantially different from this figure. However, if we extrapolate the \$10,180 average bond per well to the entire state, this suggests an average bond variance equal to \$13,482 per well, which is the difference between the predicted cost per well of \$23,662 and the average bond per well of \$10,180. Multiplied by 60,403 active wells this suggests a current shortfall of \$814 million in the bond pool.

Conclusions

The full reclamation of land disturbed by oil and gas development is critical to the protection of Wyoming's natural heritage as well as to the long run viability of the oil and gas industry. If an environmental bonding requirement continues to be a part of the regulation that insures proper reclamation then a serious overhaul of the current system is warranted. We estimate the total cost of reclaiming all of the active wells in Wyoming is approximately 1.5 billion dollars.

The biggest weakness of the current bonding requirements is that they are not tied to production. This study has shown the strong link that exists between certain key production variables (such as drilling depth) and the cost of reclamation. Given accurate estimates of the cost of reclamation, an appropriate system of bonding requirements can be established that is linked to production and fully covers these costs. The most effective system would require a fixed bond amount per well plus an additional fee per foot of drilling depth, and this study provides estimates of these parameters.

In Section 2 we discussed the BLM's recent policy shift toward performance-based standards, and this is a move in the right direction. The final economic incentive that is required is to make defaulting on reclamation as costly as doing the actual reclamation.

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Webber, B.S. "Promoting Economic Incentives for Environmental Protection in the Surface Mining Control and Reclamation Act of 1977: An Analysis of the Design and Implementation of Reclamation Performance Bonds," *Natural Resources Journal* 25 (1985)

The *Western Economics Forum* is an electronic, peer-reviewed publication of the Western Agricultural Economics Association.

Past issues of the *Western Economics Forum* and submission guidelines can be found at:
<http://agecon.uwyo.edu/WAEA/waeawef.htm>

Information about the Western Agricultural Economics Association can be found at:
<http://agecon.uwyo.edu/WAEA/default.htm>

WAEA membership is open to all those interested in agricultural and resource management issues in Western North America.



From: [Culver, Nada L](#)
To: [Daniel-Davis, Laura E](#); [Sanchez, Alexandra L](#)
Cc: [Feldgus, Steven H](#)
Subject: FW: [EXTERNAL] Rosen/Grassley letter to Secretary Haaland
Date: Thursday, June 10, 2021 12:16:38 PM
Attachments: [image001.png](#)
[06.10.21 Fair Returns for Public Lands Act Letter to DOI.pdf](#)

They are very on message with our current draft of the report.

Nada Wolff Culver
Deputy Director, Policy and Programs
Bureau of Land Management
Cell: 202-255-6979
nculver@blm.gov

From: Gray, Morgan <Leslie_Morgan_Gray@ios.doi.gov>
Sent: Thursday, June 10, 2021 9:42 AM
To: Howarth, Robert G <Robert_G_Howarth@ios.doi.gov>; Wallace, Andrew G <andrew_wallace@ios.doi.gov>; Culver, Nada L <nculver@blm.gov>; Feldgus, Steven H <steve_feldgus@ios.doi.gov>; Jackson, Danna R <djackson@blm.gov>; Kelly, Katherine P <Kate_Kelly@ios.doi.gov>
Cc: Roberts, Lawrence S <lawrence_s_roberts@ios.doi.gov>; Van Der Heide Escobar, Jennifer <jennifer_vanderheideescobar@ios.doi.gov>
Subject: FW: [EXTERNAL] Rosen/Grassley letter to Secretary Haaland

Interesting. Letter from Sens. Rosen and Grassley regarding the Fair Returns on Public Lands Act and the review of the fossil program.

Rob, mind entering into DTS? TY!

From: Riddle, Kelly (Rosen) <Kelly_Riddle@rosen.senate.gov>
Sent: Thursday, June 10, 2021 11:36 AM
To: Gray, Morgan <Leslie_Morgan_Gray@ios.doi.gov>; Wallace, Andrew G <andrew_wallace@ios.doi.gov>
Cc: Gilson, Joseph (Grassley) <Joseph_Gilson@grassley.senate.gov>
Subject: [EXTERNAL] Rosen/Grassley letter to Secretary Haaland

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Good morning,

Please see attached a letter from Senators Rosen and Grassley to Secretary Haaland requesting that the Department includes the Fair Returns for Public Lands Act as a policy recommendation in the forthcoming oil and gas review report.

Nada Culver is also cc'ed on this letter, so please ensure she receives it too.

Thanks so much,

Kelly

Kelly Riddle

Policy Advisor

t: 202-224-6244

e: Kelly_Riddle@rosen.senate.gov

713 Hart Senate Office Building



To request an event or meeting with the Senator, please visit:

<https://www.rosen.senate.gov/scheduling-requests>.

United States Senate

June 10, 2021

The Honorable Deb Haaland
Secretary
United States Department of the Interior
1849 C Street, NW
Washington, D.C. 20242

Dear Secretary Haaland:

As the Department of the Interior conducts a comprehensive review of the federal oil and gas program, we urge you to include our bipartisan Fair Returns for Public Lands Act (S. 624) as a policy recommendation in your report this summer. Our bill would update the nation's outdated public lands royalty system, and ensure that taxpayers and our rural communities get fair returns on leases of public lands for oil and gas production.

As you know, the Department of the Interior's rental and royalty rates for oil and gas drilling on federal lands have not been updated since 1920 and the minimum bid and rental rates have remained stagnant since 1987. As a result, taxpayers are not receiving fair market value for the commercial development of publicly-owned oil and gas resources. Our legislation would increase the royalty rate from 12.5 percent to 18.75 percent, which the Congressional Budget Office estimates would generate \$200 million in net federal income over a 10-year period. This increased rate would match existing royalty rates for offshore oil and gas leasing, as well as rates charged by states like Utah, Colorado, New Mexico, and Wyoming.

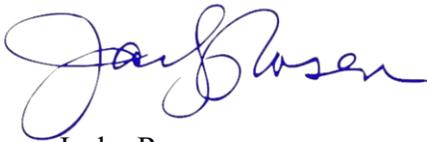
Our legislation would also make additional reforms, including:

- Increasing the rental rate for oil and gas leases, from \$1.50 per acre for the first five years and \$2.00 per acre for the remainder of the lease, to \$3.00 per acre for the first five years and \$5.00 per acre for the remainder.
- Increasing the national minimum bid for oil and gas leases, from \$2.00 per acre to \$10.00 per acre, with discretion for the Secretary of the Interior to set a higher minimum bid for individual lease sales or lease parcels as needed.
- Increasing the rental and royalty rates for reinstated oil and gas leases, by establishing a rental rate of \$20 per acre and a royalty rate of 25 percent that applies uniformly to all reinstated leases.
- Establishing a fee for expressions of interest, by requiring parties who wish to nominate public lands for oil and gas leasing to pay a fee sufficient to reimburse administrative costs of at least \$15 per acre.
- Requiring regular adjustments, by directing the Secretary of the Interior to adjust these rates for inflation at least every four years, or earlier if necessary to enhance financial returns or promote more efficient management of oil and gas resources.
- Requiring a study, which must be completed in 3 to 5 years and will evaluate the efficacy of the Interior Department's implementation of the bill.

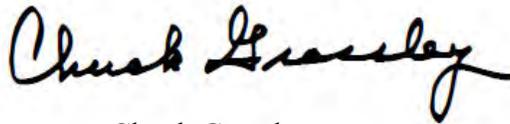
The Fair Returns for Public Lands Act can bring our federal leasing system into the 21st century and ensure that state and local governments across the nation receive fair compensation to fund critical education, infrastructure, and public health projects. We strongly urge you and the Department to consider this legislation and incorporate it in your recommendations to Congress to improve our federal oil and gas program.

We look forward to working with you and appreciate your attention to this important issue. Should you want to discuss this matter in greater detail, please feel free to contact us directly. Your staff may contact Kelly Riddle (Kelly_Riddle@rosen.senate.gov) and Joseph Gilson (Joseph_Gilson@grassley.senate.gov) in our offices.

Sincerely,

A handwritten signature in blue ink that reads "Jacky Rosen". The signature is fluid and cursive, with the first name being more prominent.

Jacky Rosen
United States Senator

A handwritten signature in black ink that reads "Chuck Grassley". The signature is cursive and somewhat stylized, with the last name being more prominent.

Chuck Grassley
United States Senator

CC: Nada Culver, Deputy Director of Policy and Programs, Bureau of Land Management, U.S. Department of the Interior

From: [Prest, Brian](#)
To: [Culver, Nada L](#)
Cc: [James Stock](#); [Michael, Jennifer](#); [Sanchez, Alexandra L](#)
Subject: RE: [EXTERNAL] O&G Royalties and Climate Costs
Date: Tuesday, April 13, 2021 5:29:16 PM
Attachments: [RFF-BLM Briefing.pptx](#)

Dear Nada and Alex,

Thank you so much for taking the time today to hear how we're thinking about this issue. As I mentioned, we are very happy to serve as a continued resource as you work on your report and beyond, so please don't hesitate to reach out with any questions.

As promised, I'm sending the slide deck from today, to which we have added a couple of slides giving a bit of context about RFF's history and work.

Best,

Brian

Brian Prest

Fellow, Resources for the Future

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Support RFF to improve environmental, energy, and natural resource decisions.

From: Culver, Nada L <nada_culver@ios.doi.gov>
Sent: Wednesday, March 31, 2021 3:46 PM
To: Prest, Brian <prest@rff.org>
Cc: James Stock <james_stock@harvard.edu>; Michael, Jennifer <jmichael@rff.org>; Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>; Blasing, Francesca M <fblasing@blm.gov>
Subject: RE: [EXTERNAL] O&G Royalties and Climate Costs

Dear Brian – Thank you for following up. Per the email from Kate Kelly earlier today, both Alexandra Sanchez, from the Assistant Secretary's office, and I would like to follow up. I've copied Alexandra as well as my assistant, Fran Blasing, who can help us to schedule this meeting.

Nada Culver

From: Prest, Brian <prest@rff.org>
Sent: Wednesday, March 31, 2021 9:04 AM
To: Culver, Nada L <nada_culver@ios.doi.gov>
Cc: James Stock <james_stock@harvard.edu>; Michael, Jennifer <jmichael@rff.org>
Subject: [EXTERNAL] O&G Royalties and Climate Costs

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Dear Nada,

I'd like to reiterate my gratitude for the invitation to last week's forum. Earlier this week, I submitted my remarks and my [paper](#) with Jim Stock into the record at energyreview@ios.doi.gov.

As I expressed during the forum, my co-author Jim Stock and I would very much welcome further discussions about how DOI could incorporate climate costs into leasing practices. Your task under Sec. 208 of EO 14008 involves a number of economic analytical issues that we're uniquely positioned to advise on. We also appreciate the accelerated timeline for your report, so please feel free to reach out whenever you like.

Best,

Brian

Brian Prest

Fellow, Resources for the Future

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Support RFF to improve environmental, energy, and natural resource decisions.

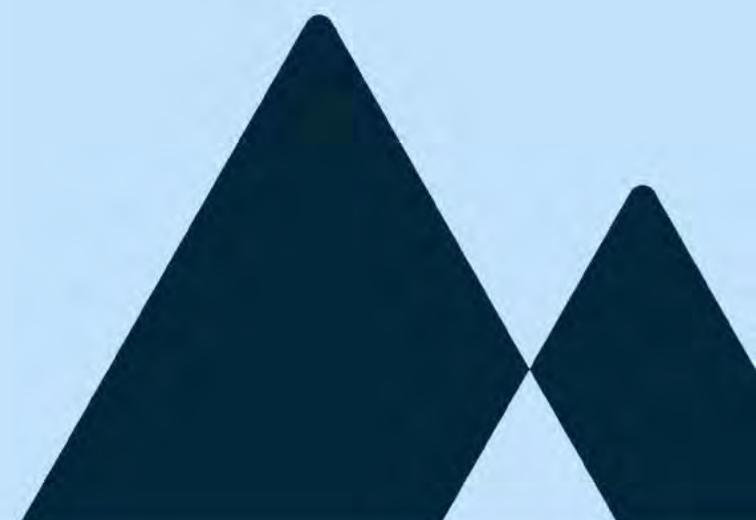


Incorporating Climate Costs into Oil and Gas Royalties: Policy Options

Brian C. Prest, Resources for the Future

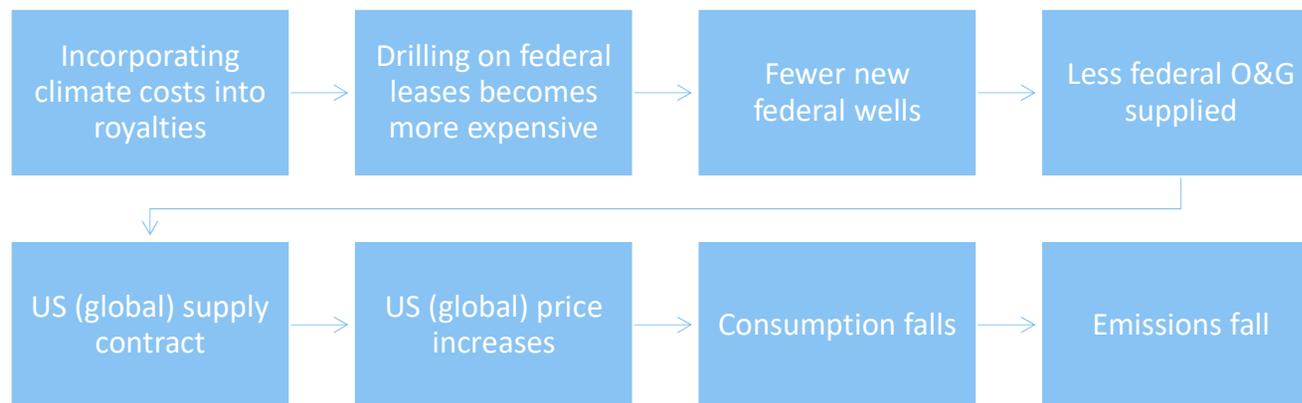
James H. Stock, Harvard University

April 13, 2021



Options for incorporating climate costs into royalties

How does this work?



- There is partial offsetting of federal by non-federal, but not complete (“incomplete leakage”).
- Initially, royalty revenues increase as the royalty rate goes up, but at high royalty rates, revenues decline.



How might one determine the royalty rate – what are some principles?

1. *Maximize royalty revenues*

- Fair value justification
- Generates meaningful emissions reductions
- Maximizes revenues for ~50% share with impacted communities

2. *Maximize social welfare*

- This is a standard principle in taxation theory – it leads to Pigovian taxes, 100+ years old
- This approach leads to the principle: set marginal costs = marginal benefits. For a single fuel, this leads to the royalty adder = $SCC^*(1 - \text{leakage rate})$, in \$/ton.

3. *Manage within a carbon budget or a target date*

- Not operational without a defined budget
- We approximate this by setting the royalty surcharge sufficiently high to achieve very large emissions reductions without shutting down the program



Prest (2021) Oil and Gas Model

1. O&G prices, royalty rates, carbon adders

Approach: Price projections, policy assumptions



2. Drilling

Approach: Econometrically estimated effect of price changes on drilling activity.



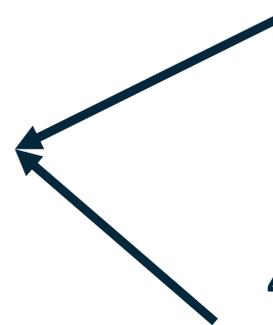
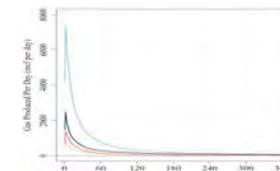
3. New wells online

Approach: Empirically estimated time lags between drilling and production



4a. Oil and gas production

Approach: Empirically estimated production profiles over time



5. Rest of World (ROW) Supply & Demand Module

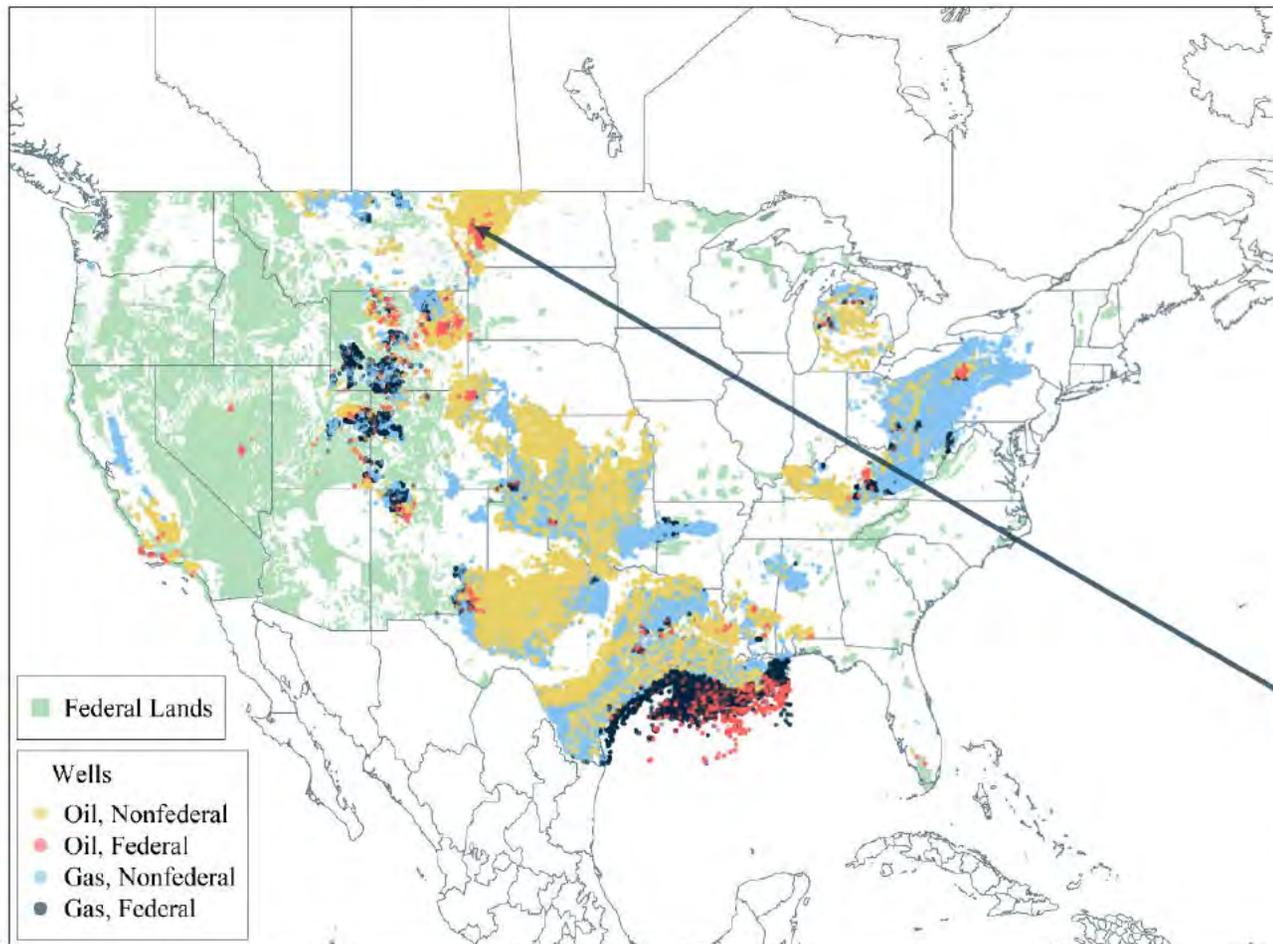
Approach: IEA projections, demand elasticities from the literature.

4b. Production from existing wells

Approach: Well-level “Arps” projections for each of ~1 million existing wells

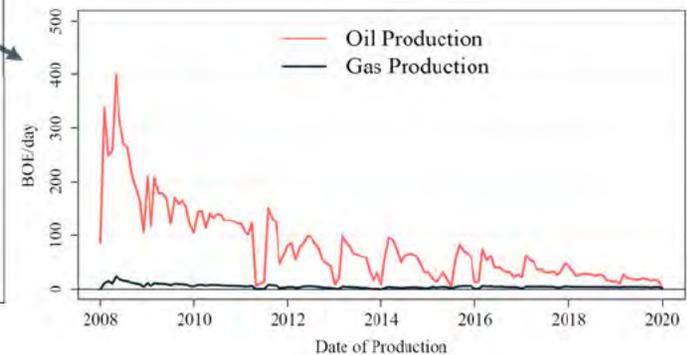


Data: Microdata on more than 1 million wells



- Drillinginfo (Enverus)
- Geotag and split wells into groups:
 1. Federal vs. Nonfederal
 2. Oil vs. Gas
 3. Onshore vs. Offshore

$2 \times 2 \times 2 = 8$ well “classes”



Different policy options for federal leasing reform

Policy Approach	Potentially Based On	Units
Higher royalty	Fair return, maximizing revenues	% of revenues
Carbon fee	Climate costs, perhaps as measured by social cost of carbon (SCC)	\$/ton CO2
Climate surcharge (%)	Climate costs, calculated to approximately reflect SCC	% of revenues
End leasing	Carbon budget	



How Big Would an Economywide Carbon Tax Be for Oil and Gas? (not accounting for leakage)

Hypothetically, set **carbon fee** to full value of Social Cost of Carbon
SCC = \$51/ton CO₂

Oil

Emissions = 0.43* tons CO₂/barrel

Climate cost = \$51/ton*0.43 ton/barrel
= \$21.93/barrel

Price of oil: \$60/barrel

Climate Surcharge (%) = \$21.93/\$60 = **37%**

Gas

Emissions = 0.066* tons CO₂e/mcf

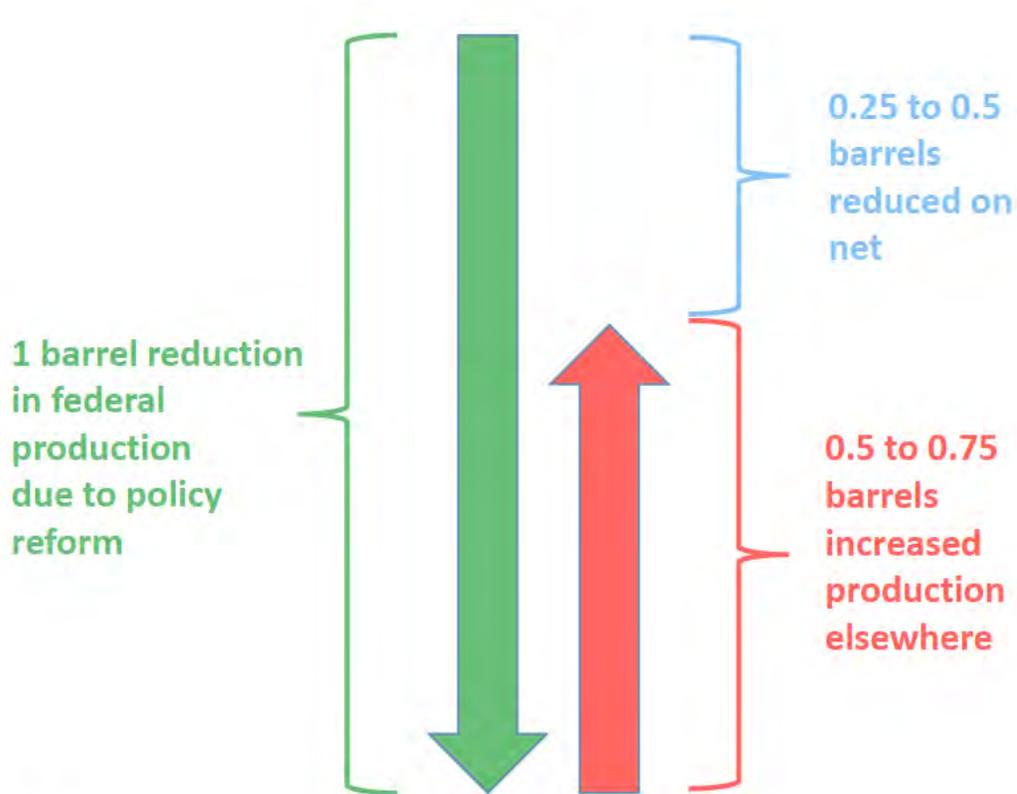
Climate cost = \$51/ton*0.066 ton/mcf
= \$3.37/mcf

Price of gas: \$2.60/mcf

Climate Surcharge (%) = \$3.37/\$2.60 = **130%**



Leakage calls for a lower economically optimal carbon fee



A 1-barrel direct reduction only “buys” us 0.25 to 0.50 fewer barrels worth of emissions.

⇒ The emissions benefit is only 0.25x to 0.5x as large

Optimal Carbon fees

Emissions: $\$51/\text{ton} * (0.25 \text{ to } 0.5) = \text{\$13-}\text{\$25}/\text{ton fee}$

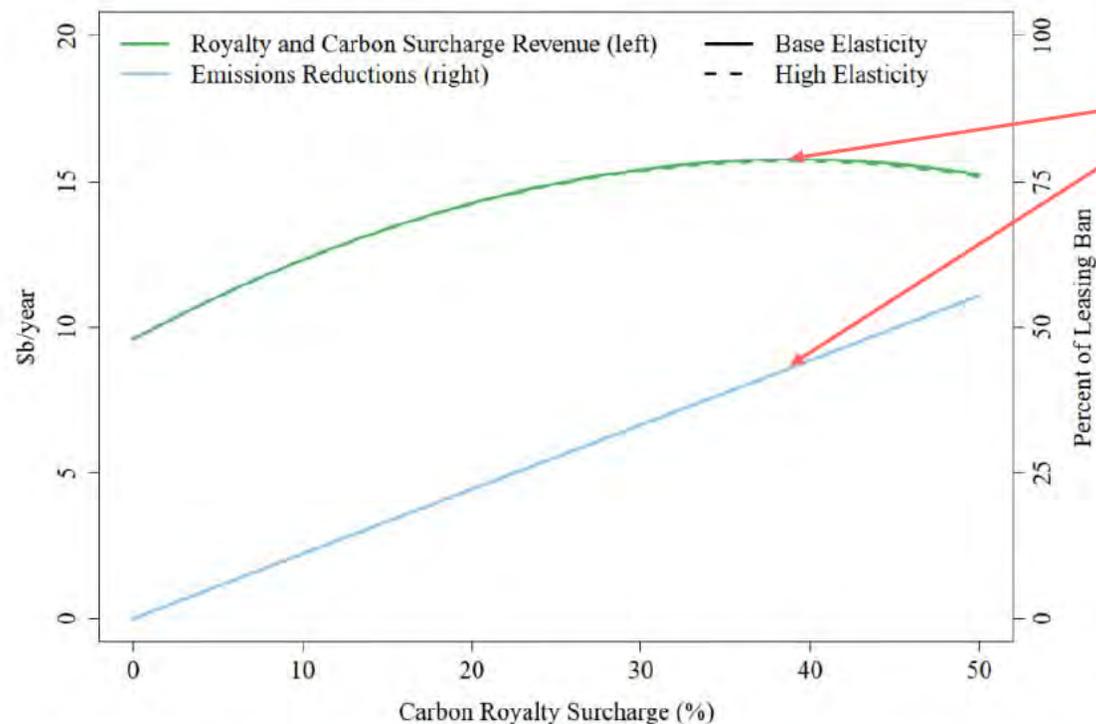
Oil: $\$13\text{-}\$25/\text{ton} * 0.43 \text{ ton}/\text{barrel} = \text{\$6-}\text{\$10}/\text{barrel}$
or $\$6/\$60 \text{ to } \$10/\$60 = \text{10-17\% oil surcharge}$

Gas: $\$13\text{-}\$25/\text{ton} * 0.07 \text{ ton}/\text{mcf} = \text{\$0.8-}\text{\$1.7}/\text{mcf}$
or $\$0.8/\$2.6 \text{ to } \$1.7/\$2.6 = \text{32-63\% gas surcharge}$



Alternative Approach: Revenue-Maximizing

- Economic/climate motivation may face legal scrutiny
- Achieving fair return has stronger legal basis \Rightarrow choose royalties to maximize revenues



Much higher royalties (~40% higher) could achieve more revenues & lower emissions

- *Note:* regional disaggregation of results (production & revenue) would require additional analysis



Links

Articles

- Prest, 12/21/2020, [“Policy Options for Oil and Gas Leasing Reform”](#)
- Prest, 10/1/2020, [“Examining the Effects of a Federal Leasing Ban: Drilling into an Industry Study”](#)
- Prest 9/16/2020, [“The Economic and Emissions Consequences of Supply-Side Reforms to Oil and Gas Production on Federal Lands”](#)

Testimony

- Prest [testimony](#) at Interior Forum on oil and gas leasing reforms, 3/25/2021
- Prest [testimony](#) before US House Natural Resources, Energy and Mineral Resources, 3/9/2021
- Stock [testimony](#) before US House Natural Resources, Energy and Mineral Resources, 7/11/2019

Economics literature

- Climate Royalty Surcharges: [Prest & Stock \(2021\)](#)
- Emissions & revenue effects of federal oil and gas leasing policies: [Prest \(2021\)](#)
- Effects of federal coal leasing policies: [Gerarden, Reeder, and Stock \(2020\)](#)
- Proposals for coal leasing policy: [Gillingham and Stock \(2016\)](#)



Our Story

RFF becomes the first think tank devoted exclusively to natural resource and environmental issues.

RFF scholars help pioneer innovative incentive-based systems to combat pollutants.

RFF's novel ideas pave the way for the Acid Rain Program, and play a crucial role projecting its impact.

RFF experts play important roles in the evolution of RGGI, California's cap-and-trade program, and the EU ETS.



RFF scholars apply economic thinking to environmental topics, helping to develop new research fields and methods.

Our seminal air and water pollution research helps to evaluate the landmark Clean Air and Clean Water Acts.

The IPCC wins the Nobel Peace Prize, with numerous RFF scholars making key research contributions.

RFF cofounds the European Institute on Economics and the Environment and Global Climate Policy Partnership.



Oil and Gas

- Oil remains the fuel of choice for global transportation, and its price continues to be an indicator of global economic activity. Work by RFF experts offers insight into the effects of oil and gas development and regulations.
- RFF scholars conduct research on policy options for oil and gas production on federal lands, green stimulus opportunities for fossil fuel workers, and roles oil and gas will play in the future.

Researchers:



Brian Prest
prest@rff.org



James Stock
james_stock@harvard.edu





Thank you.

- Find out more about RFF online: www.rff.org
- Follow us on Twitter: [@rff](https://twitter.com/rff)
- Subscribe to receive updates: rff.org/subscribe

From: [Prest, Brian](#)
To: [James Stock](#); [Culver, Nada L](#)
Cc: [Michael, Jennifer](#); [Sanchez, Alexandra L](#); [Blasing, Francesca M](#)
Subject: RE: [EXTERNAL] O&G Royalties and Climate Costs
Date: Wednesday, March 31, 2021 3:58:03 PM

Great, thanks Nada. Jennifer has offered to help coordinate scheduling on our end, so keep an eye out for a message from her.

Brian

From: Stock, James H. <james_stock@harvard.edu>
Sent: Wednesday, March 31, 2021 3:47 PM
To: Culver, Nada L <nada_culver@ios.doi.gov>; Prest, Brian <prest@rff.org>
Cc: Michael, Jennifer <jmichael@rff.org>; Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>; Blasing, Francesca M <fblasing@blm.gov>
Subject: RE: [EXTERNAL] O&G Royalties and Climate Costs

Great, and happy to join
Jim

From: Culver, Nada L <nada_culver@ios.doi.gov>
Sent: Wednesday, March 31, 2021 3:46 PM
To: Prest, Brian <prest@rff.org>
Cc: Stock, James H. <james_stock@harvard.edu>; Michael, Jennifer <jmichael@rff.org>; Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>; Blasing, Francesca M <fblasing@blm.gov>
Subject: RE: [EXTERNAL] O&G Royalties and Climate Costs

Dear Brian – Thank you for following up. Per the email from Kate Kelly earlier today, both Alexandra Sanchez, from the Assistant Secretary’s office, and I would like to follow up. I’ve copied Alexandra as well as my assistant, Fran Blasing, who can help us to schedule this meeting.

Nada Culver

From: Prest, Brian <prest@rff.org>
Sent: Wednesday, March 31, 2021 9:04 AM
To: Culver, Nada L <nada_culver@ios.doi.gov>
Cc: James Stock <james_stock@harvard.edu>; Michael, Jennifer <jmichael@rff.org>
Subject: [EXTERNAL] O&G Royalties and Climate Costs

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Dear Nada,

I'd like to reiterate my gratitude for the invitation to last week's forum. Earlier this week, I submitted my remarks and my [paper](#) with Jim Stock into the record at energyreview@ios.doi.gov.

As I expressed during the forum, my co-author Jim Stock and I would very much welcome further discussions about how DOI could incorporate climate costs into leasing practices. Your task under Sec. 208 of EO 14008 involves a number of economic analytical issues that we're uniquely positioned to advise on. We also appreciate the accelerated timeline for your report, so please feel free to reach out whenever you like.

Best,

Brian

Brian Prest

Fellow, Resources for the Future

1616 P St NW, Suite 600 • Washington, DC 20036 • 202.238.5109 • prest@rff.org • [@bprest](#)

Support RFF to improve environmental, energy, and natural resource decisions.

From: [Diera, Alexx A](#)
To: [Sanchez, Alexandra L](#); [Cherry, Tyler A](#); [Scott, Janea A](#)
Subject: Re: [EXTERNAL] RE: Statements from Virtual Forum on Federal Fossil Fuels Program Review
Date: Friday, March 26, 2021 5:58:07 PM
Attachments: [image001.png](#)
[\(1\) INTRO 115 PM Nada Culver BLM Fluid Minerals March18 2021-forum draft.pptx](#)
[\(2\) INTRO 130 PM Amanda Lefton BOEM Public Forum for Oil Gas Program 3-23-2021 CLEAN \(1\).pptx](#)

Attaching BLM and BOEM slides here.

Alexx Diera
Special Assistant
Bureau of Land Management
She/Her

From: Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>
Sent: Friday, March 26, 2021 5:25 PM
To: Cherry, Tyler A <tyler_cherry@ios.doi.gov>; Scott, Janea A <janea_scott@ios.doi.gov>
Cc: Diera, Alexx A <adiera@blm.gov>
Subject: RE: [EXTERNAL] RE: Statements from Virtual Forum on Federal Fossil Fuels Program Review

I'm good with posting the BLM and BOEM slides. Adding Alexx D.
Thanks,
Alex

From: Cherry, Tyler A <tyler_cherry@ios.doi.gov>
Sent: Friday, March 26, 2021 1:25 PM
To: Scott, Janea A <janea_scott@ios.doi.gov>; Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>
Subject: RE: [EXTERNAL] RE: Statements from Virtual Forum on Federal Fossil Fuels Program Review

We did not post the bios. I don't know if we necessarily need to post the external presentations/statements but don't think it's a bad idea to post our internal slides – if folks are comfortable with that.

Tyler Cherry
Press Secretary
Office of the Secretary
U.S. Department of the Interior
(c) 202-549-2988

Follow us at [@USInteriorPress](#) and sign up [here](#) for updates from Interior.

From: Scott, Janea A <janea_scott@ios.doi.gov>
Sent: Friday, March 26, 2021 12:38 PM

To: Cherry, Tyler A <tyler_cherry@ios.doi.gov>; Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>

Subject: RE: [EXTERNAL] RE: Statements from Virtual Forum on Federal Fossil Fuels Program Review

Hi Tyler,

I'd recommend that we keep Alex as our point of contact.

Regarding the materials, did we post the speaker bios? I wonder if Alex can follow up with folks asking for their official statements and then we can post those (and probably the BLM and BOEM presentations) in the same spot where we included the bios. What do you all think?

Take care and Happy Friday!

Janea

From: Cherry, Tyler A <tyler_cherry@ios.doi.gov>

Sent: Friday, March 26, 2021 9:11 AM

To: Scott, Janea A <janea_scott@ios.doi.gov>; Sanchez, Alexandra L <alexandra_sanchez@ios.doi.gov>

Subject: FW: [EXTERNAL] RE: Statements from Virtual Forum on Federal Fossil Fuels Program Review

Hi team – who is best point of contact moving forward for any forum non-media follow-up to be sent to?

Thanks!

Tyler Cherry
Press Secretary
Office of the Secretary
U.S. Department of the Interior
(c) 202-549-2988

Follow us at [@USInteriorPress](https://twitter.com/USInteriorPress) and sign up [here](#) for updates from Interior.

From: Matt Harlan <matt.harlan@jccteam.com>

Sent: Friday, March 26, 2021 11:57 AM

To: Interior Press <interior_press@ios.doi.gov>

Subject: [EXTERNAL] RE: Statements from Virtual Forum on Federal Fossil Fuels Program Review

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning,

First off, I wanted to say thank you to DOI for hosting the forum yesterday. I found it informative to hear points of view from such a diverse group of stakeholders. I also appreciate the quick turnaround on posting the video of the session.

Secondly, do you know whether the official statements provided from the presenters will be made available anywhere? I've seen the API statement was already made public via their website, but if there's a public docket for the other submissions (maybe on Regulations.gov) I would appreciate being able to view the other comments.

Thank you,

Matt Harlan
Regulatory Specialist



J. Connor Consulting, Inc.
19219 Katy Fwy Ste 200 | Houston, TX 77094
P: (281) 578-3388
www.jccteam.com | matt.harlan@jccteam.com

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U.S. Department of the Interior
Bureau of Land Management

Public Forum on Federal Oil and Gas Program

March 25, 2021





Executive Order 14008 on Tackling the Climate Crisis at Home and Abroad

Sec. 208. Oil and Natural Gas Development on Public Lands and in Offshore Waters.

Pause new oil and natural gas leases on public lands or offshore waters in accordance with applicable law, pending **comprehensive review and reconsideration of federal oil and gas leasing and permitting practices:**

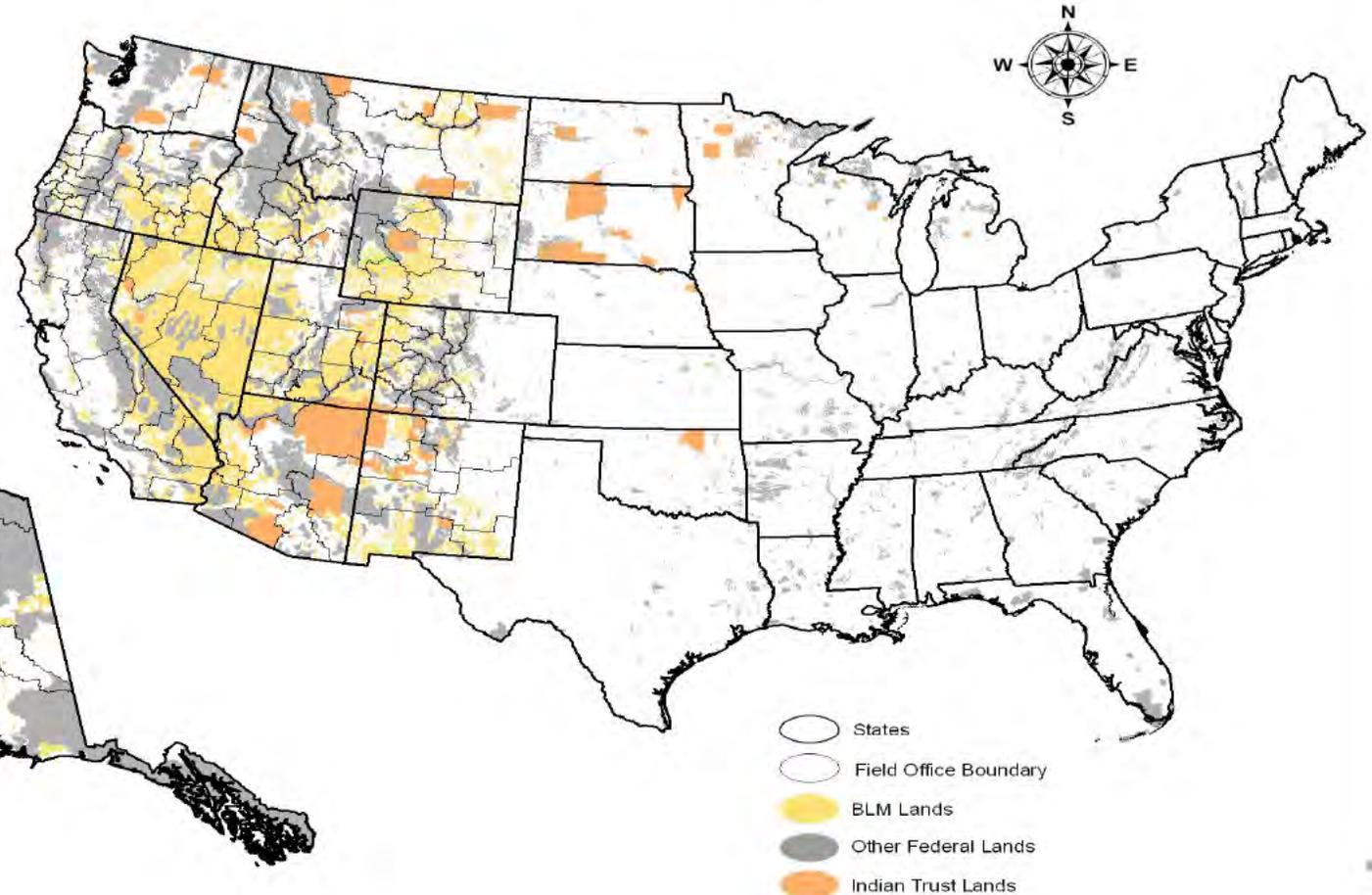
- in light of potential climate and other impacts
- including potential adjustment of royalty rates

The order does not restrict energy activities on lands that the United States holds in trust for Tribes.



Federal Lands and Mineral Estate

Public Lands, Onshore Federal and Indian Minerals Responsibilities of the Bureau of Land Management



Note: The BLM manages approximately 10 percent of land in the United States and approximately 30 percent of the Nation's minerals.



Applicable Federal Laws

- **Mineral Leasing Act of 1920 (MLA)**
 - Establishes authority for leasing of Federal fluid minerals, royalty rate of 12.5%, annual rentals, and lease terminations terms. 30 U.S.C. Sec. 181
- **National Environmental Policy Act of 1969 (NEPA)**
 - Requires BLM to address environmental consequences, engage the public, and consider alternatives. 42 U.S.C. 4332
- **Federal Land Policy and Management Act of 1976 (FLPMA)**
 - Establishes BLM management of public lands under principles of multiple use and sustained yield. 43 U.S.C. 1732
 - Establishes land use plans (resources management plans). 43 U.S.C. 1712
- **Federal Onshore Oil & Gas Leasing Reform Act of 1987 (FOOGLRA)**
 - Directs BLM to hold lease sales at least quarterly when lands are eligible and available. 30 U.S.C. Section 226(b)(1)(A)
- **National Defense Authorization Act of 2014 (NDAA)**
 - Established internet-based auctions for lease sales. Pub. L. No. 113-291, Sec. 3022(a)(1)
- **Naval Petroleum Reserves Production Act of 1976 (NPRPA)**
 - Governs planning and leasing in the National Petroleum Reserve – Alaska (NPR-A). 42 U.S.C. 6501



Land Use Planning

BLM lands and resources are managed in conformance with approximately 150 Resource Management Plans (RMPs).

- Required by FLPMA
- Pursuant to multiple use and sustained yield
- Basis for all resource allocations including oil and gas
- Identifies lands open or closed to leasing, and other conditions for how development can occur



Note: Tribal lands are managed by the Bureau of Indian Affairs

Lands in the NPR-A are subject to the NPRPA



Leasing Process

(MLA as amended, U.S.C. 226, 43 CFR 3100-3120)

- Nomination/Expressions of Interest
- Evaluation and engagement
 - NEPA
 - Public input
 - Consultation with Surface Management Agencies
 - Administrative protest opportunity
- Lease sale – competitive sale
 - Unsold parcels available for non-competitive sale for 2 years
 - Exclusive right to develop minerals
 - 10-year initial term, extended by production



Notes: Tribal lands are leased by BIA
Leasing in State of Alaska follows 43 CFR 3130

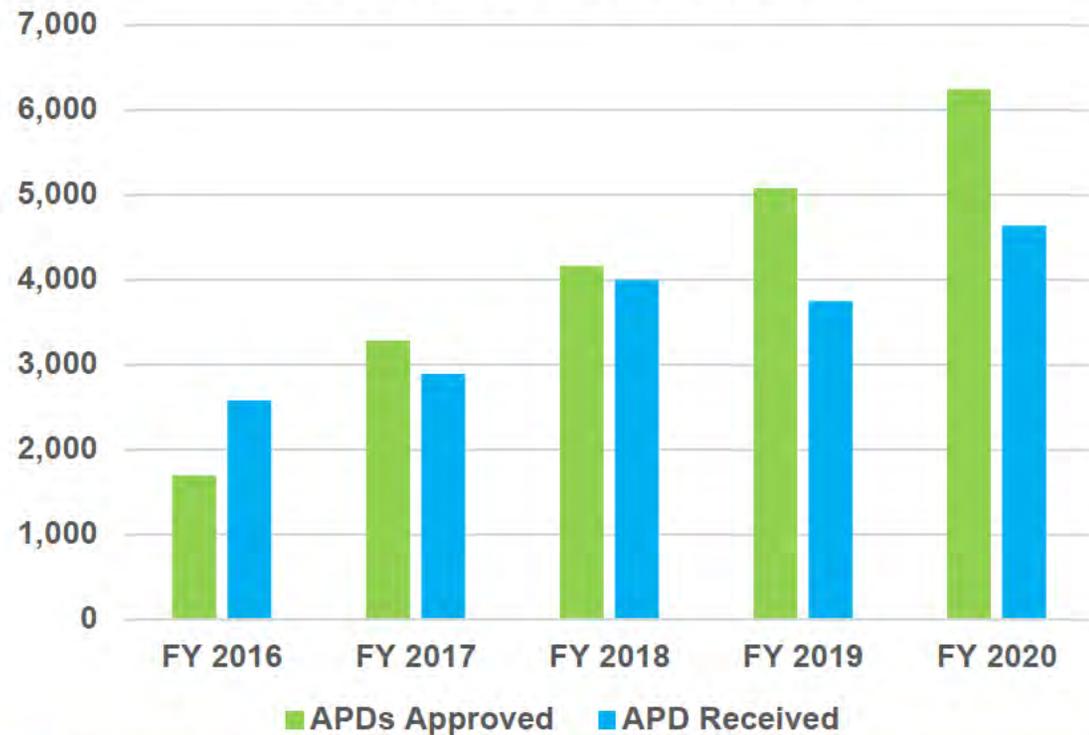


Permitting

After obtaining a lease, the lessee is required to submit an Application for Permit to Drill (APD) prior to drilling on its lease.

- Conduct additional NEPA review
- Apply Conditions of Approval governing development – may require resource surveys
- Submit 12-point surface use plan
- Submit 9-point drilling plan
- Comply w/applicable laws and regulations

APD Activity FY 2016 - FY 2020



As of January 31, 2021:

- 7,607 approved and available APDs
- 5,328 APDs received and pending processing



Opportunities for Public Participation

The environmental review process for developing oil and gas resources is multi-faceted and includes input and coordination with Tribes, other Federal and state agencies, and the public.

- Land Use Planning – Scoping and Public Comment Period
The BLM involves the public during development and release of RMPs which identify lands open or closed to oil and gas leasing
- Leasing – Public Comment Period
The BLM solicits public comments on the NEPA analysis which supports the BLM's leasing decision.
- Leasing – Protest Period
Members of the public may protest the inclusion of any parcels when the sale notice is posted.
- Permitting - APD and NEPA Posting
 - The BLM posts the APD for thirty days online.
 - Finally, the BLM posts its NEPA analysis and consults with other Federal and state agencies before approval of the APD. For large projects, the BLM may offer a comment period.



Key Terms

- Bonus Bid = Minimum \$2/acre (30 U.S.C. 226-1(b))
- Noncompetitive leases = \$0 bonus bid, rental fee at \$1.50/acre
- Rents – paid until production of paying quantities, then pay royalties (43 CFR 3103.2-2) - set in 1987
 - \$1.50/per acre for years 1-5
 - \$2.00/per acre for years 6-10
- Royalties – 12.5% rate set in MLA of 1920 (43 CFR 3103.2-2)
 - Set as “minimum” in 1987 (higher rate used in NPR-A lease sales)
- Bonding – minimum bond amounts established by regulation in 1988 (43 CFR 3104)
 - Individual \$10,000 (set in 1960), Statewide \$25,000 (set in 1951), Nationwide \$150,000 (set in 1951)
 - NPR-A = Individual \$100,000, Nationwide \$300,000
 - Exploration = Single location \$5,000, Statewide \$25,000, Nationwide \$50,000



Oil and Gas Statistics as of FY 2020:

- 37,496 Federal leases on 26.6 million acres
- 23,878 Producing Federal Leases on 12.7 million acres
- 13,618 Non-Producing Federal leases on 13.9 million acres
- 96,100 Active Federal wells
- 7% of Domestically produced oil
- 8% of Domestically produced natural gas

FY 2020 - over \$3.46 billion revenues, including:

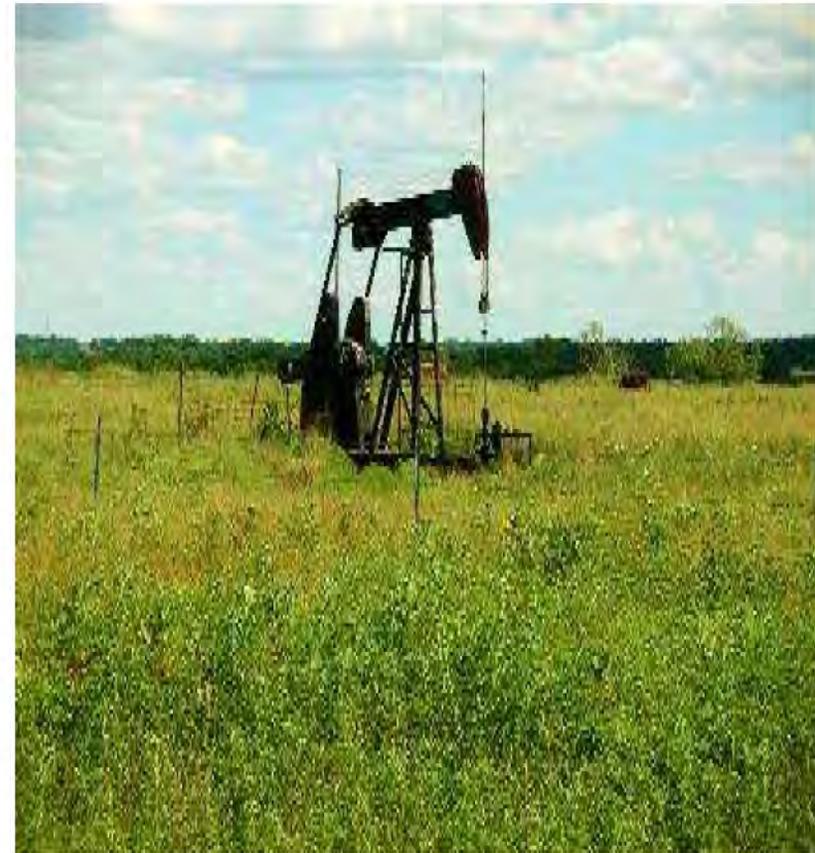
- \$2.3 Billion royalties
- \$92.9 Million bonus bids
- \$23 Million rentals

FY 2019 estimates:

- \$71.5 Billion estimated economic activity
- Supported 318,000 jobs

Note: Domestically produced revenue is from Federal production only, does not include Indian production

Note: Jobs number from DOI Econ Report 2019







Offshore Oil & Gas Program

Public Forum on Federal Oil and Gas Review
March 25, 2021

Amanda Lefton, BOEM Director



Agenda

- **Purpose of Meeting – To consider the Offshore Oil & Gas Program in the context of Executive Order 14008**
- **Overview of Offshore Oil & Gas Leasing Program**
- **Preliminary Information Gathering**



What is BOEM?

Mission:

Manage the development of U.S. Outer Continental Shelf energy and mineral resources in an environmentally and economically responsible way.

BOEM's Authority for Management of OCS Resources

- *Outer Continental Shelf Lands Act (OCSLA); 43 USC 1331, et seq.*
 - OCSLA Requires: Management of the oil and gas leasing on the Outer Continental Shelf be conducted in a manner which considers economic, social, and environmental values of the renewable and nonrenewable resources contained in the outer Continental Shelf, and the potential impact of oil and gas exploration on other resource values of the outer Continental Shelf and the marine, coastal, and human environments.
- *30 CFR 550 to 599*
 - BOEM regulations cover Geological & Geophysical surveys (30 CFR 551), the National OCS Program process (30 CFR 556), and the lease sale process (30 CFR 560).



Overview of Oil & Gas Program

BOEM's Key Offshore Oil and Gas Functions Include:

- National Planning – National OCS Program Process to Set 5-Year Schedule of Lease Sales
- Conduct Lease Sales and Ensure Fair Market Value
- Exploration and Development Plan Review and Administration
- Resource Evaluation
- Economic Analysis
- Environmental Studies
- Environmental Regulatory Reviews and Compliance
- Adjudication of Leases and Operators
- Financial Assurance

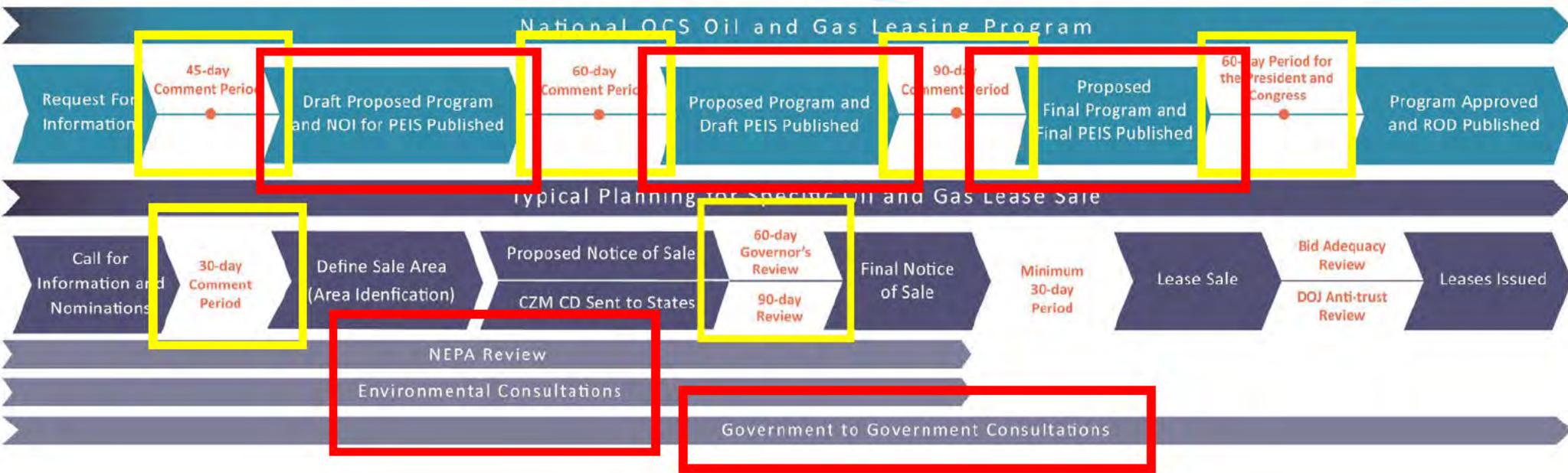


Considerations for National OCS Program Development

- 1 **Section 18(a)(1):** Economic, Social, and Environmental Values
- 2 **Section 18(a)(2):** Factors for Determining Size, Timing, and Location of Leasing
- 3 **Section 18(a)(3):** Balancing the Potential for Environmental Damage, Discovery of Oil and Gas, and Adverse Impact on the Coastal Zone
- 4 **Section 18(a)(4):** Assure receipt of fair market value for the lands leased and the rights conveyed



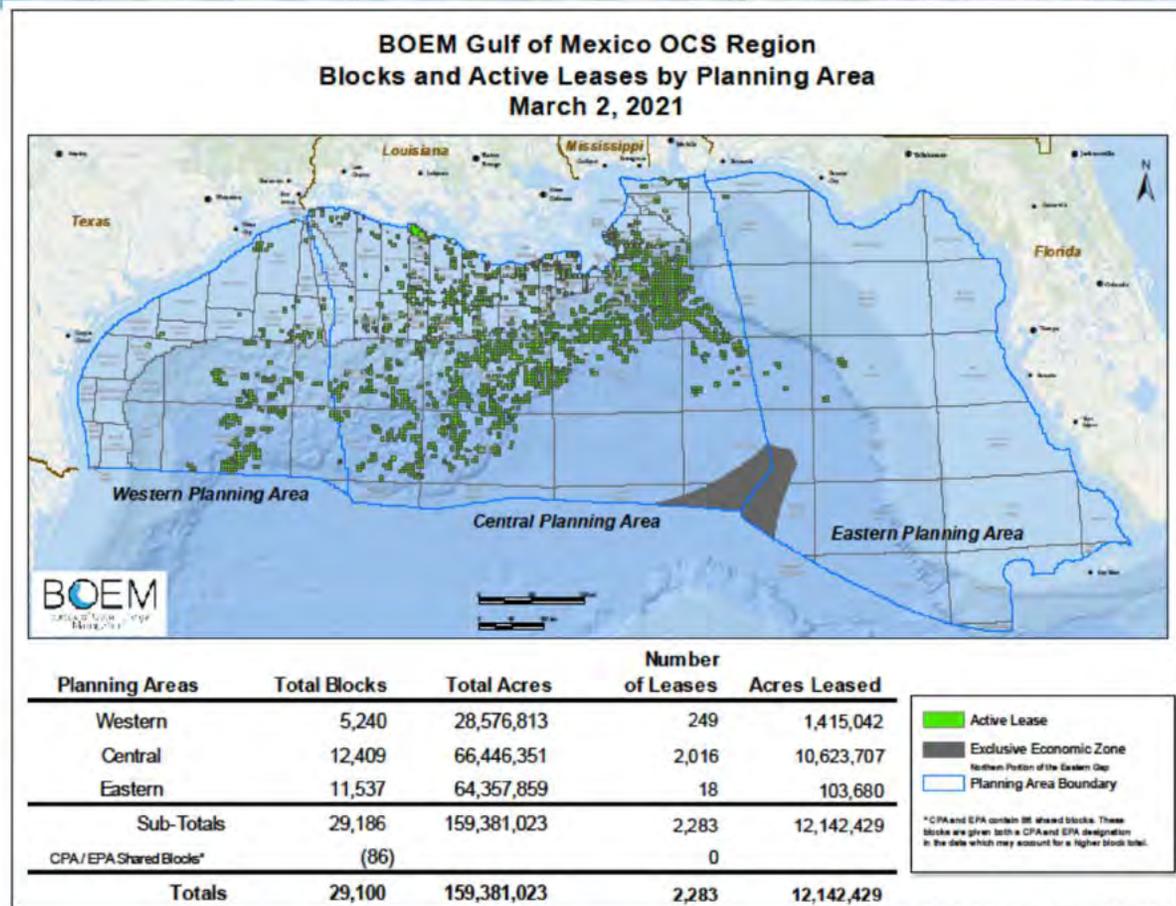
Planning and Preleasing Steps



Overview: Leasing and Permitting

Leasing Statistics

- As of March 2021, the OCS had **2,348 active leases** on **12.5 million acres**, the vast majority of which are in the Gulf of Mexico.
- In CY2020, the OCS produced
 - 611 million barrels of oil** (15% of total US oil production)
 - 809 billion cubic feet of natural gas** (2% of total US gas production)



Overview: Leasing and Permitting

Permitting Actions

- In cooperation with other Federal entities, BOEM has developed Programmatic Environmental Impact Statements (PEIS)
- Site-specific NEPA (e.g., Environmental Assessments) are typically prepared for individual Geological & Geophysical permit applications and plan approvals.
- BOEM works closely with BSEE to complete regulatory reviews that support the Application for Permit to Drill (APD) process.



Overview: Environmental Analysis

BOEM contributes to Administration's mandate on climate change

- BOEM's Environmental Studies Program conducts ecosystem science to discern effects of OCS activity from those of a changing climate.
- BOEM's environmental review considers how resources are affected both by activities we regulate and the changing world.
- BOEM collects data through its web-based emissions reporting tool (OCS AQS) on criteria air pollutants and greenhouse gas emissions.
- BOEM evaluates both the upstream and downstream emissions associated with OCS production through two models. Results from these analyses were monetized using the social cost of carbon for sales in the 2017-2022 Program.



Overview: Environmental Analysis

Environmental analysis at BOEM includes rigorous studies and review

- Fund and facilitate science that is targeted to the unique needs of BOEM.
- Ensure the best science is available for environmental reviews and policy decisions.
- Studies are conducted in a wide variety of disciplines and made available to the public.

BOEM studies and reviews assess potential effects of OCS activities on people, particularly those identified as belonging to environmental justice communities.



Preliminary Information Gathering

- In Executive Order 14008, the Biden Administration has directed Federal agencies to elevate certain priorities in Federal leasing, including notably, environmental justice, controlling greenhouse gas emissions, the promotion of well-paying jobs and economic growth.
- BOEM will need to supplement the analyses it has historically performed to ensure proper consideration of such priorities.
- Public input regarding additional analyses that should inform the Comprehensive Review process, or individual oil and gas leasing decisions is welcome and will receive due consideration.
- Leasing program changes could take many different forms and may or may not result in updates to BOEM's regulations.



Preliminary Information Gathering

- We invite you to submit additional information for us to consider in the conduct of our Comprehensive Review and Reconsideration.
- You may submit additional information to our email inbox at:

energyreview@ios.doi.gov

- **DEADLINE: April 15, 2021**





BOEM

Bureau of Ocean Energy
Management

BOEM.gov



From: [Daniel-Davis, Laura E](#)
To: [Knodel, Marissa S](#); [Lefton, Amanda B](#); [Scott, Janea A](#); [Sanchez, Alexandra L](#); [Diera, Alexx A](#); [Jackson, Danna R](#); [Culver, Nada L](#); [Alonso, Shantha R](#)
Subject: Fwd: [EXTERNAL] Re: DOI Forum Invitation
Date: Thursday, March 18, 2021 4:42:13 PM
Attachments: [MA_Bio_2021.docx](#)

More ideas from Maite

Get [Outlook for iOS](#)

From: Maite Arce <maite@hispanicaccess.org>
Sent: Thursday, March 18, 2021 4:31 PM
To: Daniel-Davis, Laura E
Subject: Re: [EXTERNAL] Re: DOI Forum Invitation

Hi Laura,

It was so great to chat with you today.

I have attached my bio.

I also recommend the following groups:

[Alliance of Nurses for Healthy Environments](#) - wrote a [report](#) recently. (onshore drilling)
Cara Cook cara@envirn.org (Executive Director)
Dr. Darci Martinez is the Latina nurse who had her story in the report: gi.manita@gmail.com
(we worked with her)

[Azul](#) (offshore drilling)
Marce Gutierrez-Graudins (Executive Director) mar@azul.org (650) 260- 4290

Have a nice afternoon!

Maite

Maite Arce, President/CEO
Hispanic Access Foundation
571-335-3645



On Thu, Mar 18, 2021 at 12:18 PM Daniel-Davis,

| Get [Outlook for iOS](#)

From: [RezaeeroD, Paniz](#)
To: "Feldgus, Steve"
Cc: [Sanchez, Alexandra L](#)
Subject: RE: [EXTERNAL] FW: Interior Department Outlines Next Steps in Fossil Fuels Program Review
Date: Tuesday, March 9, 2021 2:53:04 PM

Directing you to Alex Sanchez who can see if she is able to get you that information.

Paniz RezaeeroD
Deputy Director of Congressional Affairs - House
Department of the Interior
1849 C Street, NW
Washington, DC 20240
paniz_rezaeeroD@ios.doi.gov

NOTE: Every email I send or receive is subject to release under the Freedom of Information Act.

From: Feldgus, Steve <Steve.Feldgus@mail.house.gov>
Sent: Tuesday, March 9, 2021 2:49 PM
To: RezaeeroD, Paniz <paniz_rezaeeroD@ios.doi.gov>
Subject: RE: [EXTERNAL] FW: Interior Department Outlines Next Steps in Fossil Fuels Program Review

Thanks – could I get a breakdown on where that number came from?

From: RezaeeroD, Paniz <paniz_rezaeeroD@ios.doi.gov>
Sent: Tuesday, March 9, 2021 2:46 PM
To: Feldgus, Steve <Steve.Feldgus@mail.house.gov>
Subject: RE: [EXTERNAL] FW: Interior Department Outlines Next Steps in Fossil Fuels Program Review

The 5 million offshore is not rounded from what I am told.

Paniz RezaeeroD
Deputy Director of Congressional Affairs - House
Department of the Interior
1849 C Street, NW
Washington, DC 20240
paniz_rezaeeroD@ios.doi.gov

NOTE: Every email I send or receive is subject to release under the Freedom of Information Act.

From: Feldgus, Steve <Steve.Feldgus@mail.house.gov>
Sent: Tuesday, March 9, 2021 12:00 PM
To: RezaeeroD, Paniz <paniz_rezaeeroD@ios.doi.gov>

Subject: [EXTERNAL] FW: Interior Department Outlines Next Steps in Fossil Fuels Program Review

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Just wanted to check on the offshore stat in here – I get 4.59M acres, so is this a round up to 5?

From: U.S. Department of the Interior <info@updates.interior.gov>

Sent: Tuesday, March 9, 2021 11:03 AM

To: Feldgus, Steve <Steve.Feldgus@mail.house.gov>

Subject: Interior Department Outlines Next Steps in Fossil Fuels Program Review

Having trouble viewing this email? [View it as a Web page.](#)

Date: Tuesday, March 9, 2021
Contact: Interior_Press@ios.doi.gov

Interior Department Outlines Next Steps in Fossil Fuels Program Review

WASHINGTON – As part of the comprehensive review of the federal oil and gas program called for in Executive Order 14008, the Interior Department will host a virtual forum on Thursday, March 25th. The day-long forum will feature several panels to highlight perspectives from industry representatives, labor and environmental justice organizations, natural resource advocates, and other experts.

Fossil fuel extraction on public lands accounts for nearly a quarter of all U.S. greenhouse gas emissions. Multiple bills in Congress have been introduced in recent years to reform the program, including those to better ensure the public is not shut out of land management and leasing decisions; to address the mounting cleanup and remediation costs of orphan wells scattered across the country; and to provide a fair return to taxpayers for the use of their resources.

Over the last few years the oil and gas industry has stockpiled millions of acres of leases on public lands and waters. Onshore, of the more than 26 million acres under lease to the oil and gas industry, nearly 13.9 million (or 53%) of those acres are non-producing. Offshore, of the more than 12 million acres of public waters under lease, over 9.3 million (or 77%) of those acres are non-producing. Onshore and offshore, the oil and gas industry currently holds approximately 7,700 unused, approved drilling permits.

Yet in spite of these facts, the Trump administration offered for lease more than 25 million acres of public land onshore and more than 78 million acres offshore for oil, gas and mineral development. While only 5.6 million onshore acres were purchased and **5 million offshore**, this result clearly indicates that it is time for the Interior Department to take steps to better manage our public lands.

“The federal oil and gas program is not serving the American public well. It’s time to take a close look at how to best manage our nation’s natural resources with current and future generations in mind,” said **Principal Deputy Assistant Secretary - Land and Minerals Management Laura Daniel-Davis**. “This forum will help inform the Department’s near-term actions to restore balance on America’s lands and waters and to put our public lands’ energy programs on a more sound and sustainable conservation, fiscal and climate footing.”

The information gathered at the forum, which will be livestreamed, will help inform an interim report from the Department that will be completed in early summer. The report will include initial findings on the state of the federal conventional energy programs, as well as outline next steps and recommendations for the Department and Congress to improve stewardship of public lands and waters, create jobs, and build a just and equitable energy future.

In addition to the forum, the Interior Department is conducting outreach to Members of Congress, Governors, Tribes, and other state and local elected leaders. Members of the public will be able to offer written comments to inform the interim report. Details on how to view the forum or submit comments will be forthcoming.

###

About the U.S. Department of the Interior

The Department of the Interior (DOI) conserves and manages the Nation’s natural resources and cultural heritage for the benefit and enjoyment of the American people, provides scientific and other information about natural resources and natural hazards to address societal challenges and create opportunities for the American people, and honors the Nation’s trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated island communities to help them prosper.

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From: [Center for Western Priorities](#)
To: [Daniel-Davis, Laura E](#)
Subject: [EXTERNAL] STATEMENT on Interior Department report on oil and gas reform
Date: Friday, November 26, 2021 10:56:18 AM

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CONTACT

Kate Groetzinger, Communications Associate
Center for Western Priorities
kate@westernpriorities.org
254-652-0067

FOR IMMEDIATE RELEASE

Friday, November 26, 2021

STATEMENT on Interior Department report on oil and gas reform

DENVER—Today, the Interior Department [released a report](#) outlining potential reforms to the system governing oil and gas drilling on public lands. [The report](#) was developed in response to [President Biden's executive order](#) that paused new oil and gas leasing while directing the Secretary of the Interior to review opportunities for reform, including whether to increase royalties for oil, gas, and coal extracted from public lands to account for climate costs.

The Center for Western Priorities released the following statement from **Executive Director Jennifer Rokala**:

“For more than a century, oil and gas companies have taken advantage of a system that prioritizes profits over communities, taxpayers, and our climate. This report provides a critical roadmap to ensure drilling decisions on public lands take into account impacts on our land, water, and wildlife, while ensuring a fair return for taxpayers. Make no mistake, this is not a pie-in-the-sky wish list, it's a detailed action plan that will yield real benefits for taxpayers and communities.

“It is now up to Congress and the Biden administration to put this plan into action and move toward a day in which our public lands continue to strengthen local communities while being part of the climate solution, not part of the climate problem.”

LEARN MORE

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2. [America's Public Lands Giveaway](#)
3. [The Oil Industry's Public Lands Stockpile](#)
4. [Western Public Lands Threatened Under Biden](#)

For more information, visit westernpriorities.org. To speak with an expert on public lands, contact Kate Groetzinger at 254-652-0067 or kate@westernpriorities.org.

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The Center for Western Priorities is a conservation policy and advocacy organization focused on land and energy issues across the American West.

[Center for Western Priorities](https://www.westernpriorities.org) | 1999 Broadway Suite 520. Denver, CO 80202 | 303.974.7761

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From: [Schwartz, Melissa A](#)
To: [Sanchez, Alexandra L](#); [Daniel-Davis, Laura E](#)
Subject: FW: [EXTERNAL] Oil and gas report
Date: Friday, December 10, 2021 9:33:53 AM

Happy to no comment but the attachments?

From: Heather Richards <hrichards@eenews.net>
Sent: Friday, December 10, 2021 10:22 AM
To: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>; Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>
Subject: Re: [EXTERNAL] Oil and gas report

Good morning!

Would DOI care to comment on the record regarding the release of these public comments? I do also have two specific questions: Why are the attachments not included in this cache? I can see many public comments submitted by organizations or individuals as attachments, but only can see the email. Also, were there any hard copies or letters also submitted during the review? All I see are emails.

Thank you. I'm writing something to a noon EST deadline.

Heather

From: "Schwartz, Melissa A" <melissa_schwartz@ios.doi.gov>
Date: Thursday, December 9, 2021 at 5:45 PM
To: Heather Richards <hrichards@eenews.net>, Interior Press <interior_press@ios.doi.gov>, "Cherry, Tyler A" <tyler_cherry@ios.doi.gov>
Subject: RE: [EXTERNAL] Oil and gas report

EXTERNAL SENDER: Use caution with links and attachments.

Nothing for the record, let me know if you are interested in something on background

From: Heather Richards <hrichards@eenews.net>
Sent: Thursday, December 9, 2021 5:16 PM
To: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>; Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>
Subject: Re: [EXTERNAL] Oil and gas report

Appreciate it. Can you guys tell me why there was a delay?

From: "Schwartz, Melissa A" <melissa_schwartz@ios.doi.gov>
Date: Thursday, December 9, 2021 at 4:46 PM
To: Heather Richards <hrichards@eenews.net>, Interior Press <interior_press@ios.doi.gov>, "Cherry, Tyler A" <tyler_cherry@ios.doi.gov>
Subject: RE: [EXTERNAL] Oil and gas report

EXTERNAL SENDER: Use caution with links and attachments.

Heather – apologies for the delay! The materials are posted here: <https://www.doi.gov/foia/os/oil-and-gas-records>

FYI, you are the only reporter who has this right now

From: Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>
Sent: Sunday, November 28, 2021 2:00 PM
To: 'Heather Richards' <hrichards@eenews.net>; Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>
Subject: RE: [EXTERNAL] Oil and gas report

Happy Sunday –

The team is working to post on the agency's FOIA site early this week. We will circle back when I get an update.

Thanks

From: Heather Richards <hrichards@eenews.net>
Sent: Sunday, November 28, 2021 9:27 AM
To: Interior Press <interior_press@ios.doi.gov>; Cherry, Tyler A <tyler_cherry@ios.doi.gov>; Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>
Subject: [EXTERNAL] Oil and gas report

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Hey,

Is there a place I can review the public comments that Interior took in the preparation of the oil and

gas report released Friday?

Thank you,

Heather

From: [Kieve, David K. EOP/CEO](#)
To: [Alex Taurel](#)
Cc: [Harding, Stephenne S. EOP/CEO](#); [Lee-Ashley, Matt G. EOP/CEO](#); [Mallory, Brenda EOP/CEO](#); [Daniel-Davis, Laura E](#); [Kelly, Katherine P](#); [Alonso, Shantha R](#); [Schwartz, Melissa A](#); [Tiernan Sittenfeld](#)
Subject: Re: [EXTERNAL] LCV Statement on Interior's Federal Oil and Gas Report
Date: Friday, November 26, 2021 1:01:30 PM

Thanks Alex!

Sent from my iPhone

On Nov 26, 2021, at 10:40 AM, Alex Taurel <Alex_Taurel@lcv.org> wrote:

Thanks for getting this report out. Hope everyone is able to get back to taking a little time off!

-Alex

[>https://www.lcv.org/article/lcv-statement-on-interiors-federal-oil-and-gas-report/<](https://www.lcv.org/article/lcv-statement-on-interiors-federal-oil-and-gas-report/)

For Immediate Release

November 26, 2021

Contact: Emily Samsel, esamsel@lcv.org, 828-713-9647

LCV Statement on Interior's Federal Oil and Gas Report

Washington, DC: In response to the release of the Interior Department's report on the Federal Oil and Gas Leasing Program, the League of Conservation Voters (LCV) released the following statement from Conservation Program Director **Alex Taurel**:

"This report confirms what we have long known: the federal oil and gas program is profoundly broken and rigged in favor of oil industry CEOs. It shortchanges taxpayers, communities, outdoor enthusiasts, and wildlife. We appreciate the Interior Department highlighting these long-standing and well-documented problems with the leasing program which needs wholesale reform without delay. Toward that end, the Senate should retain the common sense reforms to the oil and gas program included in the House's recently-passed Build Back Better Act. It is also clear this program must be aligned with our climate goals, and we look forward to working with the Biden administration to accelerate the transition of our public lands and waters into assets in the climate fight.

###

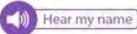
From: [Tiernan Sittenfeld](#)
To: [Alonso, Shantha R](#); [Alex Taurel](#); [David Kieve](#); [Harding, Stephenne S. EOP/CEQ](#); [Matt Lee-Ashley](#); **(b)(6) - Mallory**; [Daniel-Davis, Laura E](#); [Kelly, Katherine P](#); [Schwartz, Melissa A](#)
Subject: RE: [EXTERNAL] LCV Statement on Interior's Federal Oil and Gas Report
Date: Friday, November 26, 2021 2:09:06 PM
Attachments: [image001.png](#)

Echoing Alex on all counts! Kudos, thanks and onward,
Tiernan

From: Alonso, Shantha R <shantha_alonso@ios.doi.gov>
Sent: Friday, November 26, 2021 2:12 PM
To: Alex Taurel <Alex_Taurel@lcv.org>; David Kieve <david.k.kieve@ceq.eop.gov>; Harding, Stephenne S. EOP/CEQ <Stephenne.S.Harding@ceq.eop.gov>; Matt Lee-Ashley <matthew.g.lee-ashley@ceq.eop.gov>; **(b)(6) - Mallory**; Daniel-Davis, Laura E <laura_daniel-davis@ios.doi.gov>; Kelly, Katherine P <Kate_Kelly@ios.doi.gov>; Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>
Cc: Tiernan Sittenfeld <tiernan_sittenfeld@lcv.org>
Subject: Re: [EXTERNAL] LCV Statement on Interior's Federal Oil and Gas Report

Thank you, Alex.

Have a good weekend,

Shantha Ready Alonso *(she/her)* 

Director, Office of Intergovernmental and External Affairs (OIEA)
Office of the Secretary, U.S. Department of the Interior
(202)538-2965 (mobile)

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From: Alex Taurel <Alex_Taurel@lcv.org>
Sent: Friday, November 26, 2021 1:40 PM
To: David Kieve <david.k.kieve@ceq.eop.gov>; Harding, Stephenne S. EOP/CEQ <Stephenne.S.Harding@ceq.eop.gov>; Matt Lee-Ashley <matthew.g.lee-ashley@ceq.eop.gov>; **(b)(6) - Mallory**; Daniel-Davis, Laura E <laura_daniel-davis@ios.doi.gov>; Kelly, Katherine P <Kate_Kelly@ios.doi.gov>; Alonso, Shantha R <shantha_alonso@ios.doi.gov>; Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>
Cc: Tiernan Sittenfeld <tiernan_sittenfeld@lcv.org>
Subject: [EXTERNAL] LCV Statement on Interior's Federal Oil and Gas Report

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Thanks for getting this report out. Hope everyone is able to get back to taking a little time off!

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###

From: [Alonso, Shantha R](#)
To: [Kelly, Katherine P](#); [Daniel-Davis, Laura E](#); [Beaudreau, Tommy P](#); [Taylor, Rachael S](#); [Schwartz, Melissa A](#); [Wallace, Andrew G](#); [Anderson, Robert T](#)
Subject: Re: [EXTERNAL] STATEMENT on Interior Department report on oil and gas reform
Date: Friday, November 26, 2021 12:59:55 PM

<https://www.lcv.org/article/lcv-statement-on-interiors-federal-oil-and-gas-report/>

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Contact: Emily Samsel, esamsel@lcv.org, 828-713-9647

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From: Kelly, Katherine P <Kate_Kelly@ios.doi.gov>
Sent: Friday, November 26, 2021 11:57 AM
To: Daniel-Davis, Laura E <laura_daniel-davis@ios.doi.gov>; Beaudreau, Tommy P <tommy_beaudreau@ios.doi.gov>; Taylor, Rachael S <rachael_taylor@ios.doi.gov>; Schwartz, Melissa A <melissa_schwartz@ios.doi.gov>; Alonso, Shantha R <shantha_alonso@ios.doi.gov>; Wallace, Andrew G <andrew_wallace@ios.doi.gov>; Anderson, Robert T <Robert.Anderson@sol.doi.gov>
Subject: Fwd: [EXTERNAL] STATEMENT on Interior Department report on oil and gas reform

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From: Center for Western Priorities <info@westernpriorities.org>
Sent: Friday, November 26, 2021 11:56 AM
To: Kelly, Katherine P

Subject: [EXTERNAL] STATEMENT on Interior Department report on oil and gas reform

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