

BEFORE THE OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF COLORADO

IN THE MATTER OF THE VERIFIED APPLICATION OF JOHN C. NIERNBERGER FOR AN ORDER ESTABLISHING AN ENHANCED RECOVERY UNIT, AUTHORIZING ENHANCED RECOVERY OPERATIONS AND REQUESTING AN AQUIFER EXEMPTION IN CERTAIN DESCRIBED LANDS IN KIT CARSON COUNTY, COLORADO	CAUSE NO:  ORDER NO:  DOCKET NO:
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VERIFIED APPLICATION

COMES NOW, John C. Niernberger ("Applicant") by and through his counsel, Poulson, Odell and Peterson, LLC, and submits this application to establish the Lowe #1-B Unit in Kit Carson County, Colorado and as grounds therefor states as follows:

1. Applicant is requesting that this Commission approve the formation of the Lowe #1-B Unit, an enhanced recovery unit, and approve enhanced recovery operations on the following lands:

Township 11 South, Range 46 West  
Section 14: E/2NW/4, W/2NE/4

containing 160 acres, more or less

Kit Carson County, Colorado

(the "Application Lands").

2. Applicant is a working interest owner within the boundaries of the proposed Lowe #1-B Unit.

3. Attached as Exhibit 1 is a map showing the proposed Lowe #1-B Unit including the current well status.

4. Attached as Exhibit 2 is a map showing the proposed Lowe #1-B Unit including the proposed well status.

5. Attached as Exhibit 3 is a map showing the lease and mineral ownership within the proposed unit boundaries.

6. Attached as Exhibit 4 is a surface ownership map showing the proposed unit boundary and the surface ownership thereon.

7. Attached as Exhibit 5 is a comprehensive list of the lease and mineral ownership within the proposed unit boundaries.

8. Attached as Exhibit 6 is a list of all working interest, mineral interest and surface interest owners located within one-half mile of the proposed unit boundaries.

9. Attached as Exhibit 7 is a copy of the Lowe #1-B Unit Letter Agreement wherein the impacted owners agree to the allocation of costs and revenues within the proposed unit. Said agreement has been agreed to by 100% of the working interest owners. Applicant has sought the approval of the mineral interest owners and is awaiting their replies.

10. A description of the proposed operations for which authorization is required follows:

Applicant and his working interest partners have been producing oil and water from the Petx-Lowe 1A well located in the NW/4, and the Lowe B-2 well located in the NE/4 of Section 14-11S-46W in Kit Carson County, Colorado. The Petx-Lowe 1A was producing approximately 56 barrels of water per day, and the Lowe B-2 was producing approximately 86 barrels of water per day, both from the Morrow formation.

Water from these wells was previously inputted into the Marmaton and Morrow formations at the Lowe A-3 SWD located in the NW/4 of Section 14-11S-46W, Kit Carson County, Colorado. Water input ceased on April 13th, 2012, due to down-hole mechanical and equipment issues. Produced water was trucked off of the leases until approximately May 25th, when the two producing wells were shut in.

Applicant and his working interest partners are now proposing to commence input of this water into the Morrow and the Keyes formations at the Lowe 1-B located in the NE/4 of Section 14-11S-46W, Kit Carson County, Colorado instead. This will be the only input well in the field.

Inputting produced water into the Lowe 1-B could potentially enhance recovery in both the Petx-Lowe 1A and the Lowe B-2 wells. The two wells each already produce into separate tank batteries, facilitating proper revenue distribution, expensing and reporting.

11. A description of geologic information pertinent to the proposed unit, including impacted wells and formations, follows:

The proposed waterflood will input all fluids into the Morrow and the Keyes formations.

Productive wells within the proposed unit area have only produced from the Morrow and Keyes formations.

The previous input well (Lowe A-3 SWD) was open in the Morrow and the Marmaton formations, so some water has most likely already been introduced to the Morrow via that well.

The Morrow is perforated at a depth of 5488' – 5498' below the surface, with calculated porosity levels of 16%. The Morrow is a sandstone comprised of fluvial channel deposits. Trapping is accomplished by a combination of stratigraphic and structural mechanisms; such as many developments of impermeable shale within the Morrow that will trap fluids in between. However, there is also a direct contact between the Morrow and the Atoka Shale, which seals fluid from above, and limits movement of the inputted fluid out of the formation. There is also a direct contact to the Keyes below, which further limits movement.

The Keyes is perforated at a depth of 5598' – 5602' below the surface, with calculated porosity values of only 7%; indicating that the majority of the inputted fluid will go into the Morrow. The Keyes is a limestone comprised of ancient Paleo-marine calcium-carbonate deposits. Trapping is accomplished primarily by stratigraphic mechanisms. Movement of the inputted fluid will be limited by an impermeable shale barrier at the base of the Keyes.

12. A description of underground sources of drinking water within the proposed unit boundaries follows:

Within the proposed unit area, the drinking water is confined to intervals between approximately 36' to 335' below surface, and known as the Dockum, Dakota, Cheyenne and Ogallala. Surface casing on all wells drilled within the proposed unit area was set at depths between 380' to 392', well below these horizons, which should be sufficient to protect the fresh water sources.

13. The proposed input well, the Lowe 1-B, is an existing well and the logs are, therefore, within the Commission's records.

14. Attached as Exhibit 8 is a schematic diagram of the proposed input well describing the casing of the well and showing surface and subsurface construction and a description of the cement job already in place or proposed.

15. A description of the fluids to be inputted follows:

The source of the water to be inputted is produced water from the Morrow formation, out of both of the producing wells, the Lowe B-2 and the Petx-Lowe 1A.

This water is treated/separated from the produced oil by means of a standard heater-treater and a water tank. The water is to be transported to the Lowe 1-B Enhanced Recovery Well via a buried 3" fiberglass pipeline.

A water analysis from the Lowe 1-B from August 1992 indicating TDS of 86,895 mg/l is attached as Exhibit 9, and should be indicative of Morrow water from the other wells.

A water analysis from the nearby UPRR A#1 well from February 1991 indicating TDS of 60,024 mg/l is attached as Exhibit 10, and should be indicative of the Keyes formation in the area.

Input rates are estimated at less than 150 barrels of water per day, but could increase up to 500 barrels of water per day over the life of the project.

The fracture gradient of the Morrow and the Keyes is estimated at 0.65 psi/foot average. Our estimated maximum applied surface pressure of 1000# would leave a safety factor of more than 100% before fracturing could take place.

16. Applicant and his working interest partners have hired Ritchie Exploration, Inc., PO Box 783188, Wichita, KS 67278, as operator of the proposed Lowe #1-B Unit.

17. Attached as Exhibit 11 is a list of interested parties who will receive notice of this application.

18. Unitization of the subsurface portion of the unit area described as the stratigraphic equivalent of the Morrow and Keyes formations, as those formations are encountered at a depth of between 5488' and 5602' below the surface in the Lowe 1-B well, is reasonably necessary to increase the ultimate recovery of oil and associated hydrocarbons in the proposed unit area.

19. The value of the estimated additional recovery of oil and associated hydrocarbons exceeds the estimated additional costs incident to conducting unit operations.

20. Applicant has signatures of one-hundred percent (100%) of the working interest owners in all the unit lands upon which the enhanced recovery operations will

take place. Applicant has sought the approval of the mineral interest owners and is awaiting their replies.

21. The proposed plan for unit operations for the Lowe #1-B Unit is necessary for the effective, efficient and economical development of the Unit Area and will result in the protection of correlative rights and the prevention of waste.

22. Pursuant to Commission Rule 324B, Applicant requests that the Morrow and Keyes formations be designated as exempt aquifers as they do not now serve as sources of drinking water and are hydrocarbon producing formations.

WHEREFORE, Applicant requests that this matter be set for hearing at the July 29 & 30, 2013, hearing, that notice hereof be given as required by law and, that upon evidenced introduced at the hearing, the Commission enter an order:

A. Approving the Lowe #1-B Unit and unitized operations as proposed;

B. Providing for the pooling of all interests within said formation within the Unit Area under the terms of the Lowe #1-B Unit Letter Agreement;

C. Issuing an aquifer exemption for the Morrow and Keyes formations into which Applicant proposes inputting water for the purposes of enhanced recovery of hydrocarbons; and

D. Providing for such further findings and orders as the Commission may deem proper and advisable.

DATED: May 30, 2013.

JOHN C. NIERNBERGER

By: \_\_\_\_\_

Scott M. Campbell

Jeremy I. Ferrin

POULSON, ODELL & PETERSON, LLC

1775 Sherman Street, Suite 1400

Denver, Colorado 80203

Telephone: (303) 861-4400

Facsimile: (303) 861-1225

Applicants address:  
232 Williamsburg  
Andover, KS 67002

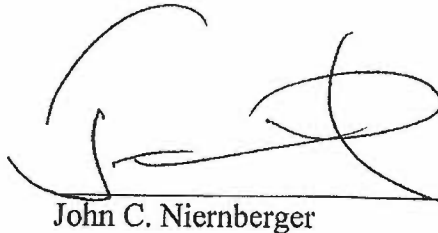
VERIFICATION

STATE OF KANSAS

COUNTY OF Sedgwick

)  
) ss.  
)

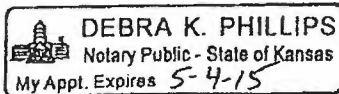
John C. Niernberger, of lawful age, being first duly sworn upon oath, deposes and says that he has read the foregoing Application and that the matters therein contained are true to the best of his knowledge, information and belief.

  
John C. Niernberger

Subscribed and sworn to before me this 29<sup>th</sup> day of May, 2013.

Witness my hand and official seal.

My commission expires: 5-4-15.

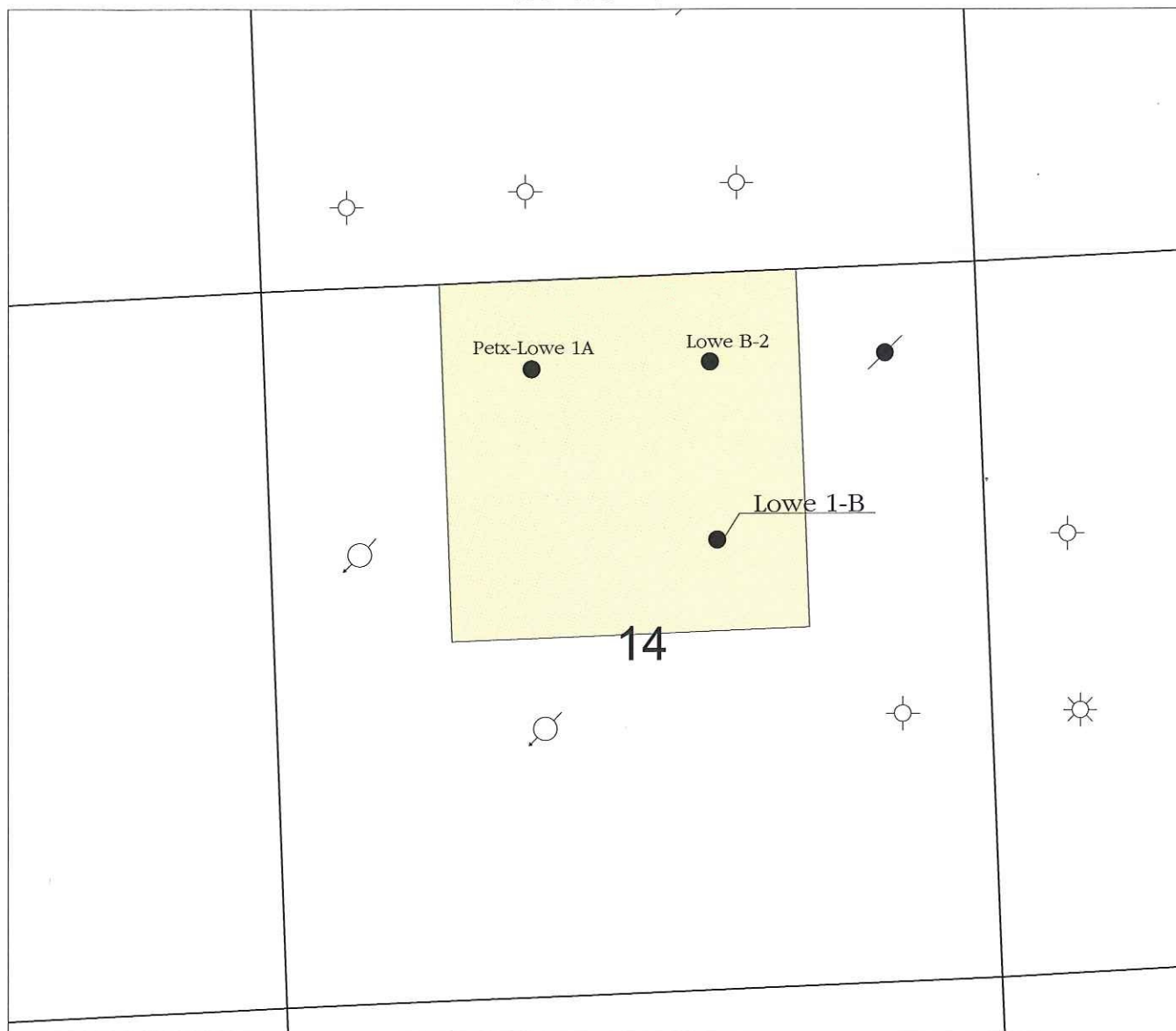


  
Notary Public

# Existing Well Status


R 46 W

T  
11  
S



## Legend

- Oil Well
- / Abandoned Oil Well
- ⊕ Dry and Abandoned Well
- ☀ Gas Well
- ⊘ Injection Well
- ⊘/ Plugged Injection Well
- Proposed Unit

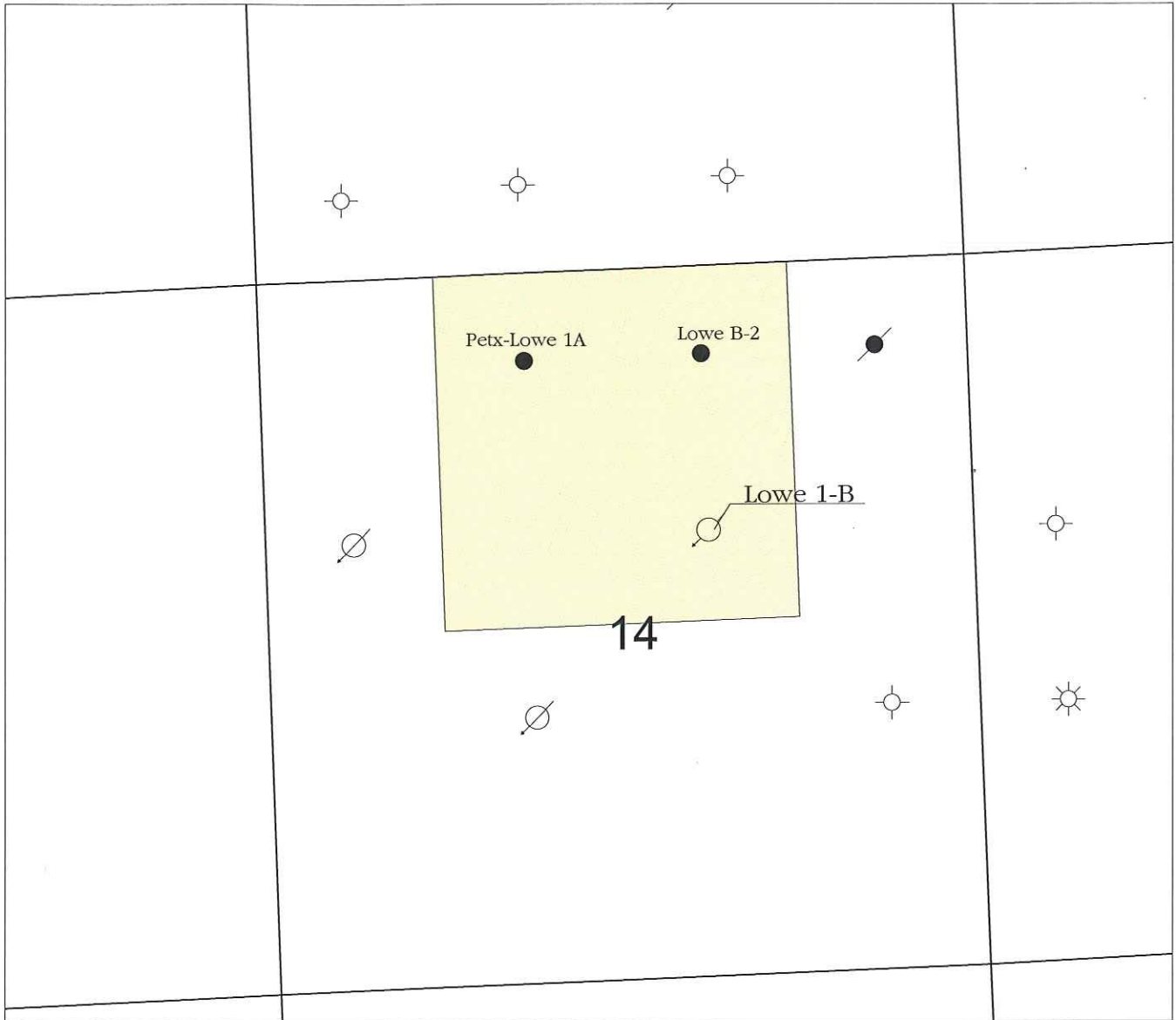
 <b>RITCHIE</b> EXPLORATION, INC. Wichita, Kansas			<b>Enhanced Recovery Well Application</b>	
Kit Carson, CO				
Prepared By: Justin Clegg	Scale: 1 : 15,000	Date: February 12, 2012		



# Proposed Well Status


R 46 W

T  
11  
S



## Legend

- Oil Well
- / Abandoned Oil Well
- ⊕ Dry and Abandoned Well
- ☀ Gas Well
- ⊙ Injection Well
- ⊗ Plugged Injection Well
- Proposed Unit

 <b>RITCHIE</b> EXPLORATION, INC. Wichita, Kansas			<b>Enhanced Recovery Well Application</b>		
<b>Applicant Well: Lowe #1-B</b>					
Kit Carson, CO					
Prepared By: Justin Clegg		Scale: 1 : 15,000		Date: February 12, 2012	

# Mineral Ownership

R 46 W


T  
11  
S



## Legend

- Oil Well
- Abandoned Oil Well
- Dry and Abandoned Well
- ☼ Gas Well
- ⊗ Injection Well
- ⊗ Plugged Injection Well

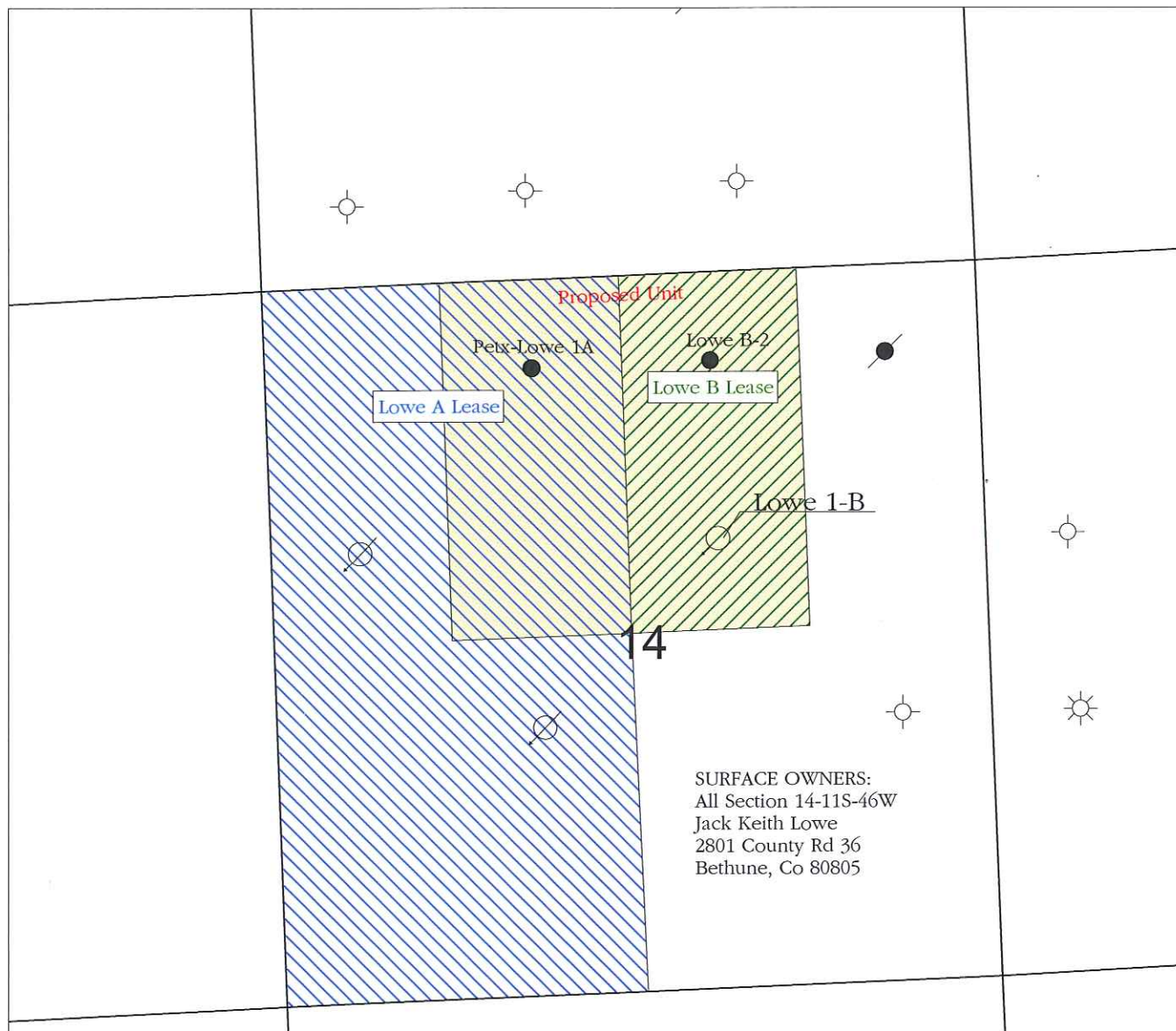
- Proposed Unit
- Lowe A Lease
- Lowe B Lease

 <div style="display: inline-block; text-align: right;"> <b>Enhanced Recovery Well Application</b> </div>		
<b>Applicant Well: Lowe #1-B</b>		
<b>Kit Carson, CO</b>		
<b>Prepared By:</b> Justin Clegg	<b>Scale:</b> 1 : 15,000	<b>Date:</b> February 12, 2012

# Surface Ownership

R 46 W


T  
11  
S



## Legend

- Oil Well
- / Abandoned Oil Well
- Dry and Abandoned Well
- ⊙ Gas Well
- / Injection Well
- / Plugged Injection Well

- Proposed Unit
- Lowe A Lease
- Lowe B Lease

 <b>RITCHIE</b> EXPLORATION, INC. Wichita, Kansas			<b>Enhanced Recovery Well Application</b>
<b>Applicant Well: Lowe #1-B</b>			
Kit Carson, CO			
Prepared By: Justin Clegg	Scale: 1 : 15,000	Date: February 12, 2012	

## **Exhibit 5**

**Owners within the boundary of the proposed  
Lowe #1-B Unit  
E/2NW/4, W/2NE/4  
Section 14-11S-46W  
Kit Carson County, Colorado**

**Lowe-A Lease - W/2 Section 14-11S-46W**

**Mineral Owners:**

David J. Chute  
278 Catalpa Dr.  
Atherton, CA 94027

Elizabeth Scroggins  
2400 S. County RD 150 West  
North Vernon, IN 47265

Storter Revocable Trust  
C/o Barry M. & Barbara K. Storter  
2176 Rockridge Dr.  
Grand Junction, CO 81507

Van K. Bullock & Harold Owens  
P.O. Box 484  
Morrison, CO 80465

**Overriding Royalty Interest Owners:**

None

**Working Interest Owners:**

Moon Royalty LLC  
P.O. Box 720070  
Oklahoma City, OK 73172

Jayland LLC  
15812 W. 64TH Ave.  
Arvada, CO 80007

Exxor, Inc.  
114 River Rock Cres SE  
Calgary, Alberta T2C 4J3  
Canada

Nelson Financial Services  
2020 S. Monroe St. #609  
Denver, CO 80210

BFL Investment LLC  
15812 W. 64TH Ave.  
Arvada, CO 80007

Thomas Family LP  
P.O. Box 80123  
Phoenix, AZ 85060

BB Management LLC  
P.O. Box 80735  
Phoenix, AZ 85060

Jim Whitehead Oil & Gas LLC  
P.O. Box 80735  
Phoenix, AZ 85060

Consolidated Equities Trust  
8100 E. 22nd St. N., Bldg. #500  
Wichita, KS 67226

FDEC, Inc.  
P.O. Box 782170  
Wichita, KS 67278

Peter J. Fiorini  
306 S. Fairway Circle  
Andover, KS 67002

Robert A. Geist  
P.O. Box 789749  
Wichita, KS 67278

Highland Production, LLC  
P.O. Box 783188  
Wichita, KS 67278-3188

David F. Jamis  
839 Creekside Lane  
Wichita, KS 67230

Brian N. Kaufman  
4900 Main St., Suite 700  
Kansas City, MO 64112

Curtis A. Krizek  
4900 Main St., Suite 700  
Kansas City, MO 64112

Louann Ritchie, LLC  
8100 E. 22nd St. N., Blg. 1000  
Wichita, KS 67226

Madeira Oil Company, Inc.  
P.O. Box 385  
Bryn Mawr, PA 19010

Michael B. Maloney Revocable Trust  
P.O. Box 2920  
Wichita, KS 67201

Ron Mann  
3580 W. 13th  
Wichita, KS 67203

DDM Holdings, LLC  
8100 E. 22nd St. N., #500  
Wichita, KS 67226

John C. Niernberger  
232 Williamsburg  
Andover, KS 67002

A. Scott Ritchie III Living Trust  
P.O. Box 783188  
Wichita, KS 67278-3188

Shaffer IV, Inc.  
11641 Blalock Ln.  
Houston, TX 77024

Star Partnership  
P.O. Box 783188  
Wichita, KS 67278-3188

Shore Oil General Partnership  
8100 E. 22nd St. N., Bldg. #500  
Wichita, KS 67226

Two Guys, LLC  
P.O. Box 783188  
Wichita, KS 67278

**Lowe-B Lease - W/2NE/4 Section 14-11S-46W**

Mineral Owners:

Jack Keith Lowe  
2801 County RD 36  
Bethune, CO 80805

Overriding Royalty Interest Owners:

None

Working Interest Owners:

Jayland LLC  
15812 W. 64TH Ave.  
Arvada, CO 80007

Exxor, Inc.  
114 River Rock Cres SE  
Calgary, Alberta T2C 4J3  
Canada

Nelson Financial Services  
2020 S. Monroe St. #609  
Denver, CO 80210

Consolidated Equities Trust  
8100 E. 22nd St. N., Bldg. #500  
Wichita, KS 67226

FDEC, Inc.  
P.O. Box 782170  
Wichita, KS 67278



Peter J. Fiorini  
306 S. Fairway Circle  
Andover, KS 67002

Robert A. Geist  
P.O. Box 789749  
Wichita, KS 67278

Highland Production, LLC  
P.O. Box 783188  
Wichita, KS 67278-3188

David F. Jamis  
839 Creekside Lane  
Wichita, KS 67230

Brian N. Kaufman  
4900 Main St., Suite 700  
Kansas City, MO 64112

Curtis A. Krizek  
4900 Main St., Suite 700  
Kansas City, MO 64112

Louann Ritchie, LLC  
8100 E. 22nd St. N., Blg. 1000  
Wichita, KS 67226

Madeira Oil Company, Inc.  
P.O. Box 385  
Bryn Mawr, PA 19010

Michael B. Maloney Revocable Trust  
P.O. Box 2920  
Wichita, KS 67201

Ron Mann  
3580 W. 13th  
Wichita, KS 67203

DDM Holdings, LLC  
8100 E. 22nd St. N., #500  
Wichita, KS 67226



John C. Niernberger  
232 Williamsburg  
Andover, KS 67002

A. Scott Ritchie III Living Trust  
P.O. Box 783188  
Wichita, KS 67278-3188

Shaffer IV, Inc.  
11641 Blalock Ln.  
Houston, TX 77024

Star Partnership  
P.O. Box 783188  
Wichita, KS 67278-3188

Shore Oil General Partnership  
8100 E. 22nd St. N., Bldg. #500  
Wichita, KS 67226

Two Guys, LLC  
P.O. Box 783188  
Wichita, KS 67278

## Exhibit 6

**Mineral Owners within a ½ mile radius of the proposed  
of Ritchie Exploration, Inc.'s  
Lowe #1-B Unit  
E/2NW/4, W/2NE/4  
Section 14-11S-46W  
Kit Carson County, Colorado**

**Township 11 South, Range 46 West**

Minerals

Sec. 10: SE/4	Las Animas Minerals LTD 4925 Greenville Ave, Ste. 714 Dallas, TX 75206	Mineral Owner
Sec. 11: S/2	Union Pacific Land Resources Corp. P.O. Box 1330 Houston, TX 77251	Mineral Owner
Sec. 12: SW/4	Pfaffly Farms P.O. Box 106 Stratton, CO 80836	Mineral Owner
	Cloyd Koop C/o Neil A. Koop 8535 S. Gatewood St. Highlands Ranch, CO 80126	Mineral Owner
	Daniel C. Lavering P.O. Box 6820 Charlottesville, VA 22906	Mineral Owner
Sec. 13: W/2	Union Pacific Land Resources Corp. P.O. Box 1330 Houston, TX 77251	Mineral Owner
Sec. 14: W/2	David J. Chute 278 Catalpa Dr. Atherton, CA 94027	Mineral Owner
	Elizabeth Scroggins 2400 S. County RD 150 West North Vernon, IN 47265	Mineral Owner
Sec. 14: W/2	Storter Revocable Trust C/o Barry M. & Barbara K. Storter 2176 Rockridge Dr. Grand Junction, CO 81507	Mineral Owner
	Van K. Bullock & Harold Owens P.O. Box 484 Morrison, CO 80465	Mineral Owners
E/2	Jack Keith Lowe 2801 County RD 36 Bethune, CO 80805	Mineral Owner

Sec. 15: E/2

RME Petroleum Company  
P.O. Box 1330  
Houston, TX 77251

Mineral Owner

Surface

Sec. 10: SE/4

Wanda Sweet Trust  
P.O. Box 242  
Stratton, CO 80836

Surface Owner

Sec. 11: S/2

Daryl L. Pickard  
P.O. Box 117  
Vona, CO 80861

Surface Owner

Sec. 12: SW/4

Pfaffly Farms  
P.O. Box 106  
Stratton, CO 80836

Surface Owner

Sec. 13: W/2

May Brothers, Inc.  
2955 County RD 30  
Stratton, CO 80836

Surface Owner

Sec. 14: ALL

Jack Keith Lowe  
2801 County RD 36  
Bethune, CO 80805

Surface Owner

Sec. 15: E/2

Randy Eakin  
2534 E. Cochise RD  
Phoenix, AZ 85028

Surface Owner

Sec. 22: NE/4

Happy Creek, Inc.  
17991 County RD 30  
Stratton, CO 80836

Surface Owner

Working Interest

Sec. 13

Mountain Petroleum Corporation  
1801 Broadway, Ste. 1250  
Denver, CO 80202

Working Interest



EXPLORATION, INC.  
Wichita, Kansas

04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
14<sup>th</sup> DAY OF

May, 2013  
Michael B. Maloney Revocable Trust

Michael B. Maloney, Co-Trustee

Jeanine H. Maloney, Co-Trustee

P.O. Box 783188  
Wichita, Kansas 67278-3188

(316) 691-9500  
Fax (316) 691-9550  
[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328



**RITCHIE**  
EXPLORATION, INC.  
Wichita, Kansas

04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Pctx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
16<sup>th</sup> DAY OF  
May, 2013

Brian N. Kaufman

P.O. Box 783188  
Wichita, Kansas 67278-3188

(316) 691-9500  
Fax (316) 691-9550  
[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
15 DAY OF

May, 2013

Exxor, Inc.

P.O. Box 783188  
Wichita, Kansas 67278-3188

(316) 691-9500  
Fax (316) 691-9550  
[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328





04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS

20<sup>th</sup> DAY OF  
May, 2013

  
Robert A. Geist



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS

16 DAY OF  
May, 2013

Nelson Financial Services, Inc.

- president

P.O. Box 783181  
Wichita, Kansas 67278-3181

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[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

8100 E. 22<sup>nd</sup> Street, Suite 700  
Wichita, Kansas 67220-7278





04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:  
Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B BRW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
Tenth DAY OF

May, 2013

Madeira Oil Company, Inc.

P.O. Box 783188  
Wichita, Kansas 67278-3188

(316) 691-9500  
Fax (316) 691-9550  
[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

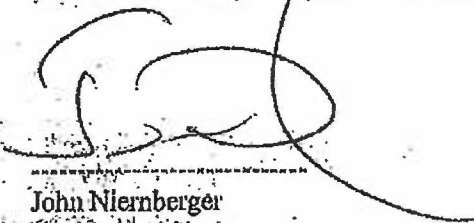
The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B BRW.

The Retx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

  
John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
9<sup>th</sup> DAY OF  
MAY, 2013

Shore Oil General Partnership

  
B. Anthony Isaac, General Partner

P.O. Box 783188  
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04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:  
Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
8<sup>th</sup> DAY OF  
May, 2013

Consolidated Equities Trust

  
Roy R. Baker, Trustee

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Fax (316) 691-9550  
[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

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Wichita, Kansas 67226-2328



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

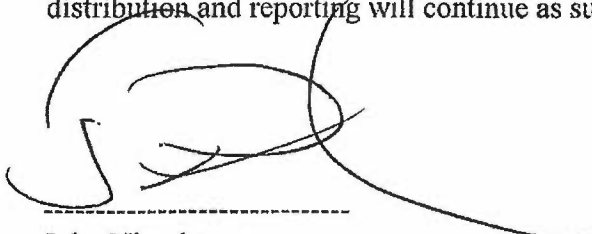
The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

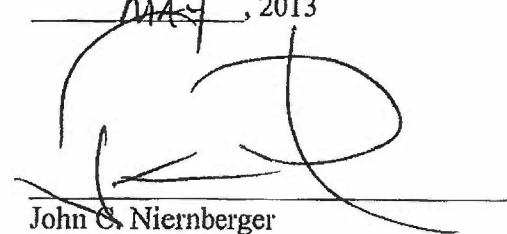
The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

  
John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
8<sup>th</sup> DAY OF

MAY, 2013

  
John S. Niernberger





04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B BRW.

The Peix-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niemberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
8<sup>th</sup> DAY OF

May, 2013

Shaffer IV, Inc.

  
Jeffrey Shaffer

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Fax (316) 691-9550  
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Wichita, Kansas 67226-2328



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS

Eighth DAY OF  
May, 2013

Two Guys, LLC

  
Martin Sipes



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
\_\_\_\_\_ DAY OF

\_\_\_\_\_, 2013

A. Scott Ritchie III Living Trust

A. Scott Ritchie III



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
 DAY OF

MAY, 2013

  
Peter J. Fiorini





04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
8th DAY OF  
May, 2013

  
David F. Jamis



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
8<sup>th</sup> DAY OF  
May, 2013

Star Partnership

  
Thomas K. Ritchie



04-02-2013

MAY - 8 2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS

9<sup>th</sup> DAY OF  
May, 2013

DDM Holdings, LLC



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
8<sup>th</sup> DAY OF

May, 2013

Highland Production, LLC

  
A. Scott Ritchie





Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:  
Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

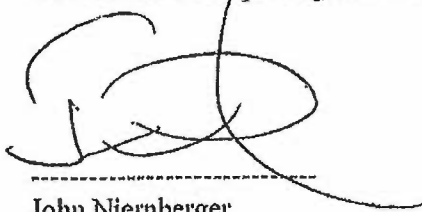
The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

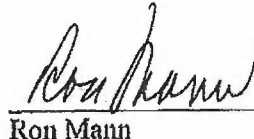
The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.



John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
\_\_\_\_\_'10 DAY OF  
\_\_\_\_\_, 2013



Ron Mann

P.O. Box 783188  
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(316) 691-9500  
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[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
10 May DAY OF  
2013

Jayland, LLC



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
\_\_\_\_ DAY OF

\_\_\_\_, 2013

Robert E. Johnson

  
BFL Investments, LLC



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
14<sup>th</sup> DAY OF  
May, 2013

Curtis A. Krizek

P.O. Box 783188  
Wichita, Kansas 67278-3188

(316) 691-9500  
Fax (316) 691-9550  
[john@ritchie-exp.com](mailto:john@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328





04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
15TH DAY OF  
MAY, 2013

Louann Ritchie, LLC



04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
21<sup>ST</sup> DAY OF  
MAY, 2013

FDEC, Inc.

P.O. Box 783188  
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04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS

22nd DAY OF  
May, 2013

Betty Budorick, Manager  
Jim Whitehead Oil & Gas LLC

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**RITCHIE**  
EXPLORATION, INC.  
Wichita, Kansas

04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS

22nd DAY OF  
May, 2013

BB Management LLC

Betty Budorick, Managing Member

P.O. Box 783188  
Wichita, Kansas 67278-3188

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Wichita, Kansas 67226-2328





04-02-2013

Lowe 1-B  
SW NE Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease  
Lowe A-3 SWD  
Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niernberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
22<sup>nd</sup> DAY OF  
MAY, 2013

Thomas Family LP

GENERAL PARTNER

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04-02-2013

Lowe 1-B  
SW NB Section 14-11S-46W  
Kit Carson county, Colorado

Proposed Revenue and Expense Allocation for Lowe #1-B Unit:

There are currently three sets of lease owners for the three entities involved:

Lowe A lease

Lowe A-3 SWD

Lowe B lease.

The Lowe A-3 SWD plugging expenses will be borne by the owners of that well, as they have received compensation for the use of the SWD over the years. That entity will then cease to exist as the well will no longer be in use. All of the lease owners in the Lowe A-3 SWD have an interest in either the Lowe A, or Lowe B lease, or both.

The Lowe 1-B will be set up as an association of the various interest owners of the Lowe A and Lowe B leases, with an allocation based on current water contribution (40% from the Lowe A and 60% from the Lowe B).

Should water production rates change significantly in the future, then the allocation could be reviewed and modified appropriately.

This association will bear the conversion expenses of the Lowe 1-B to an Enhanced Recovery Well, and ongoing costs/expenses to maintain the Lowe 1-B ERW.

The Petx-Lowe 1A producing well has been pumping into the Lowe A tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

The Lowe B-2 producing well has been pumping into the Lowe B tank battery, and revenue distribution and reporting will continue as such to appropriate lease owners.

John Niemberger  
Production Manager  
Ritchie Exploration, Inc.

AGREED TO AND ACCEPTED THIS  
25<sup>th</sup> DAY OF

May, 2013

Moore Royalty LLC

  
C. J. MILLER, MANAGER

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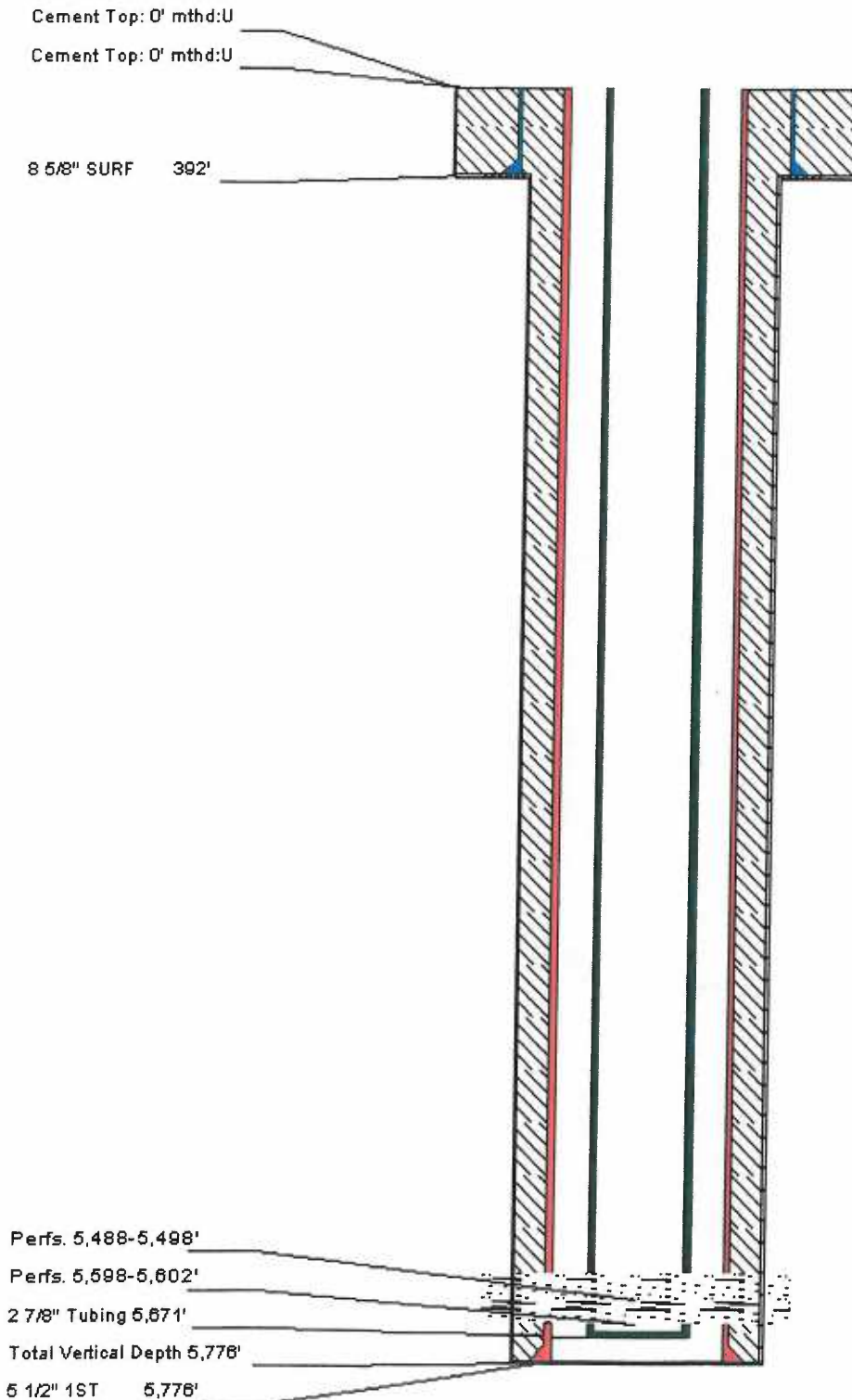
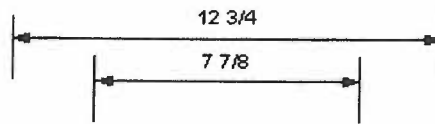
8100 W. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328

# Well Completion Diagram

API Well No: 05-063-06186-00-			
Owner:	RITCHIE EXPLORATION INC	Well Name:	LOWE
County:	KIT CARSON	Field:	SMOKY HILL
Coordinates: X 1980 FEL ; Y 1980 FNL		Pool:	
		Sec: 14	Twp: 11S Rng: 46W

Note: Changes to the drawing do not effect the database

Bore Diameters (in.)





**PETROLITE**

PETROLITE

**WATER ANALYSIS REPORT**

Mid-Continent Region  
 Technical Services  
 5801 West 10th Street  
 Great Bend, Kansas 67530  
 (316) 792-7728

Company : Anchor Bay Corp.  
 Address :  
 Lease : Lowe  
 Well : B-1  
 Sample Pt. :

Date : 08/21/92  
 Date Sampled : 08/17/92  
 Analysis No. :

ANALYSIS		mg/L	* meq/L	
-----		----	-----	
1.	pH	6.2		
2.	H2S	Positive		
3.	Specific Gravity	1.055		
4.	Total Dissolved Solids	86895.1		
5.	Suspended Solids			
6.	Dissolved Oxygen			
7.	Dissolved CO2			
8.	Oil In Water			
9.	Phenolphthalein Alkalinity (CaCO3)			
10.	Methyl Orange Alkalinity (CaCO3)	185.0		
11.	Bicarbonate	HCO3 225.7	HCO3	3.7
12.	Chloride	Cl 52105.3	Cl	1469.8
13.	Sulfate	SO4 1075.0	SO4	22.4
14.	Calcium	Ca 3374.7	Ca	168.4
15.	Magnesium	Mg 459.5	Mg	37.8
16.	Sodium (calculated)	Na 29650.5	Na	1289.7
17.	Iron	Fe 4.5		
18.	Barium	Ba 0.0		
19.	Strontium	Sr 0.0		
20.	Total Hardness (CaCO3)	10319.3		

**PROBABLE MINERAL COMPOSITION**

*milli equivalents per Liter		Compound    Equiv wt X meq/L    =    mg/L				
+-----+		-----				
168	*Ca <----- *HCO3	4	Ca(HCO3)2	81.0	3.7	300
	/----->		CaSO4	68.1	22.4	1524
38	*Mg -----> *SO4	22	CaCl2	55.5	142.3	7897
	<-----/		Mg(HCO3)2	73.2		
1290	*Na -----> *Cl	1470	MgSO4	60.2		
			MgCl2	47.6	37.8	1799
Saturation Values Dist. Water 20 C			NaHCO3	84.0		
	CaCO3                    13 mg/L		Na2SO4	71.0		
	CaSO4 * 2H2O            2090 mg/L		NaCl	58.4	1289.7	75371
	BaSO4                    2.4 mg/L					

REMARKS: Grover Hill  
 ----- Sales Engineer

Petrolite Oilfield Chemicals Group  
 Mid-Continent Region  
 5601 Northwest 72nd, Suite 324  
 Oklahoma City, OK 73132

Respectfully submitted,

R. Rush Blaz

Z041  
DX901

W P RENNER/DIST MGR  
CRAIG TINSLAR/ASST DIV EN

DOM ADM  
DOM ENG

\*\*\*\*\*  
\* WATER ANALYSIS REPORT \*  
\* ##### \*  
\* HALLIBURTON SERVICES \*  
\* DENVER DIVISION LAB \*  
\* BOX 1510 \*  
\* EVANSVILLE, WY 82636 \*  
\*\*\*\*\*

DATE: February 19, 1991

RECEIVED FEB 25 1991

RECEIVED

MAR 4 1991

COLO. OIL & GAS CONS. COI

TO: Lynn Ferguson  
- Halliburton Services  
- Brighton, Co.

CC: D.E. Bailey

RESPECTFULLY SUBMITTED,

BY: V.R. Olson

COMPANY: Anchor Bay

REPORT NO: W91-0051

WELL NAME: UPRR A #1

DATE REC'D: 02-16-91

sampled from flowline

LOCATION: Kit Carson County, Co

LAB CHARGES:

Sec 11-T11S-R46W

FORMATION: Keyes 5600 feet

CHARGED TO:

SPECIFIC GRAVITY ----- 1.044  
PH ----- 7.3  
IRON (FE) ----- <1  
POTASSIUM (K) ----- 140  
SODIUM (NA) ----- 20682  
CALCIUM (CA) ----- 2145  
MAGNESIUM (MG) ----- 279  
CHLORIDES (CL) ----- 36473  
SULFATES (SO4) ----- <10  
CARBONATES (CO3) ----- Nil  
BICARBONATES (HCO3) ----- 305  
TDS ----- 60024  
RESISTIVITY----- 0.70

MPL

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OHMS AT 70.0 DEGREES F

REMARKS:

\*\*\*\*\*  
NOTICE: THIS REPORT IS FOR INFORMATION ONLY AND THE CONTENT IS LIMITED  
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REPORT AGREES HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE,  
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Exhibit 10

## Exhibit 11

**Interested Parties  
Lowe #1-B Unit  
E/2NW/4, W/2NE/4  
Section 14-11S-46W  
Kit Carson County, Colorado**

Poulson, Odell & Peterson, LLC 1775 Sherman Street, Suite 1400 Denver, Colorado 80203	John C. Niernberger 232 Williamsburg Andover, KS 67002	Shore Oil General Partnership 8100 E. 22nd St. N., Bldg. #500 Wichita, KS 67226
David J. Chute 278 Catalpa Dr. Atherton, CA 94027	A. Scott Ritchie III Living Trust P.O. Box 783188 Wichita, KS 67278-3188	Las Animas Minerals LTD 4925 Greenville Ave, Ste. 714 Dallas, TX 75206
Elizabeth Scroggins 2400 S. County RD 150 West North Vernon, IN 47265	Shaffer IV, Inc. 11641 Blalock Ln. Houston, TX 77024	Union Pacific Land Resources Corp. P.O. Box 1330 Houston, TX 77251
Storter Revocable Trust C/o Barry M. & Barbara K. Storter 2176 Rockridge Dr. Grand Junction, CO 81507	Star Partnership P.O. Box 783188 Wichita, KS 67278-3188	Pfaffly Farms P.O. Box 106 Stratton, CO 80836
Van K. Bullock & Harold Owens P.O. Box 484 Morrison, CO 80465	Two Guys, LLC P.O. Box 783188 Wichita, KS 67278	Cloyd Koop C/o Neil A. Koop 8535 S. Gatewood St. Highlands Ranch, CO 80126
Moon Royalty LLC P.O. Box 720070 Oklahoma City, OK 73172	Jack Keith Lowe 2801 County RD 36 Bethune, CO 80805	Daniel C. Lavering P.O. Box 6820 Charlottesville, VA 22906
Jayland LLC 15812 W. 64TH Ave. Arvada, CO 80007	Madeira Oil Company, Inc. P.O. Box 385 Bryn Mawr, PA 19010	RME Petroleum Company P.O. Box 1330 Houston, TX 77251
Nelson Financial Services 2020 S. Monroe St. #609 Denver, CO 80210	Michael B. Maloney Revocable Trust P.O. Box 2920 Wichita, KS 67201	Wanda Sweet Trust P.O. Box 242 Stratton, CO 80836

BFL Investment LLC 15812 W. 64TH Ave. Arvada, CO 80007	Ron Mann 3580 W. 13th Wichita, KS 67203	Daryl L. Pickard er P.O. Box 117 Vona, CO 80861
Thomas Family LP P.O. Box 80123 Phoenix, AZ 85060	Curtis A. Krizek 4900 Main St., Suite 700 Kansas City, MO 64112	May Brothers, Inc. 2955 County RD 30 Stratton, CO 80836
BB Management LLC P.O. Box 80735 Phoenix, AZ 85060	Louann Ritchie, LLC 8100 E. 22nd St. N., Blg. 1000 Wichita, KS 67226	Randy Eakin 2534 E. Cochise RD Phoenix, AZ 85028
Jim Whitehead Oil & Gas LLC P.O. Box 80735 Phoenix, AZ 85060	DDM Holdings, LLC 8100 E. 22nd St. N., #500 Wichita, KS 67226	Happy Creek, Inc. 17991 County RD 30 Stratton, CO 80836
Consolidated Equities Trust 8100 E. 22nd St. N., Bldg. #500 Wichita, KS 67226	Robert A. Geist P.O. Box 789749 Wichita, KS 67278	Mountain Petroleum Corporation 1801 Broadway, Ste. 1250 Denver , CO 80202
FDEC, Inc. P.O. Box 782170 Wichita, KS 67278	Highland Production, LLC P.O. Box 783188 Wichita, KS 67278-3188	David F. Jamis 839 Creekside Lane Wichita, KS 67230
Peter J. Fiorini 306 S. Fairway Circle Andover, KS 67002	Brian N. Kaufman 4900 Main St., Suite 700 Kansas City, MO 64112	Exxor, Inc. 114 River Rock Cres SE Calgary, Alberta T2C 4J3 <b>CANADA</b>
Colorado Dept. Of Public Health & Environment Attn Kent Kuster Oil & Gas Consultant Coordinator 4300 Cherry Creek Dr S Denver CO 80246-1500	Colorado Dept. of Wildlife Southeast Regional Office Attn: Al Trujillo 4255 Sinton Road Colorado Springs, CO 80907	Abbey Mullis LGD County of Kit Carson 251 16th St Ste. 102 Burlington CO 80807