

DISTRICT I  
1825 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-9720

DISTRICT II  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (575) 748-1263 Fax: (575) 748-9720

DISTRICT III  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number	Pool Code	Pool Name
Property Code	Property Name <b>MORTARBOARD FEDERAL COM</b>	Well Number 13H
OGRID No.	Operator Name <b>COG OPERATING, LLC</b>	Elevation 3464.0'

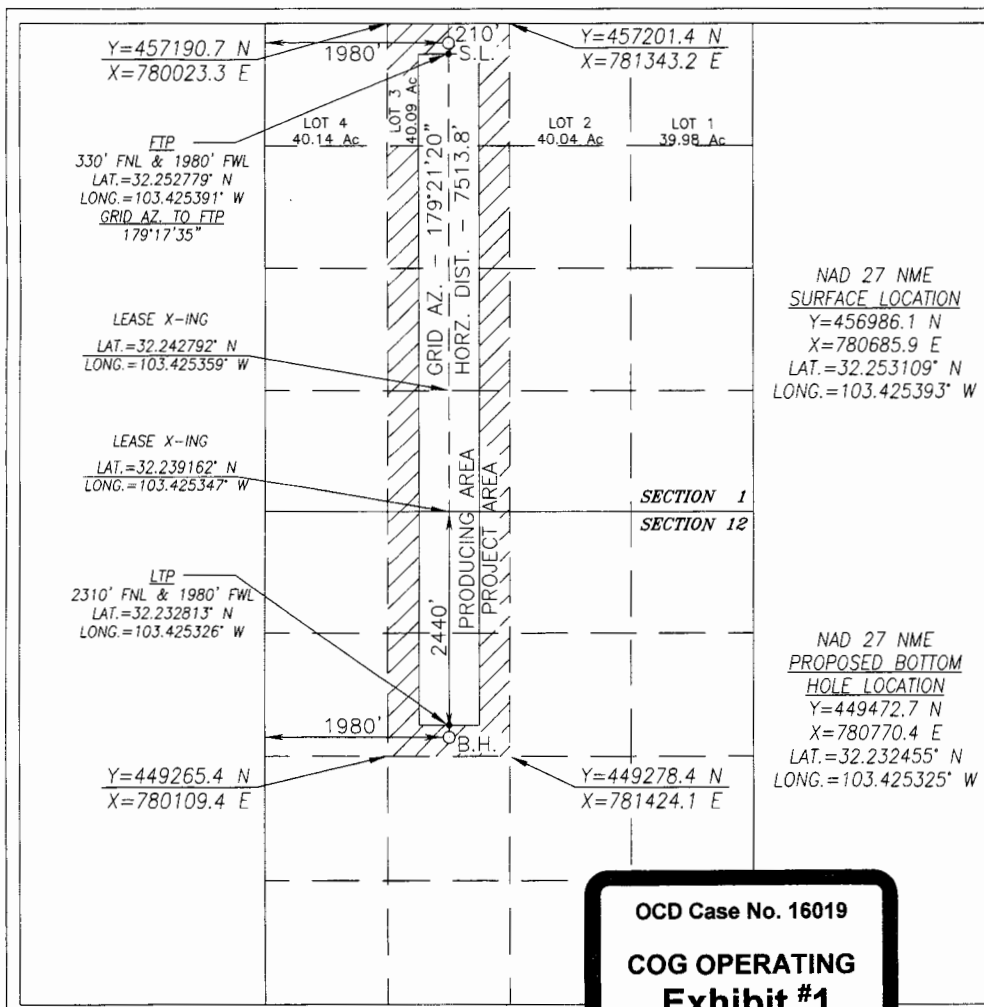
**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	24-S	34-E		210	NORTH	1980	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	12	24-S	34-E		2440	NORTH	1980	WEST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**OPERATOR CERTIFICATION**

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature

Date

Printed Name

E-mail Address

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 7, 2017

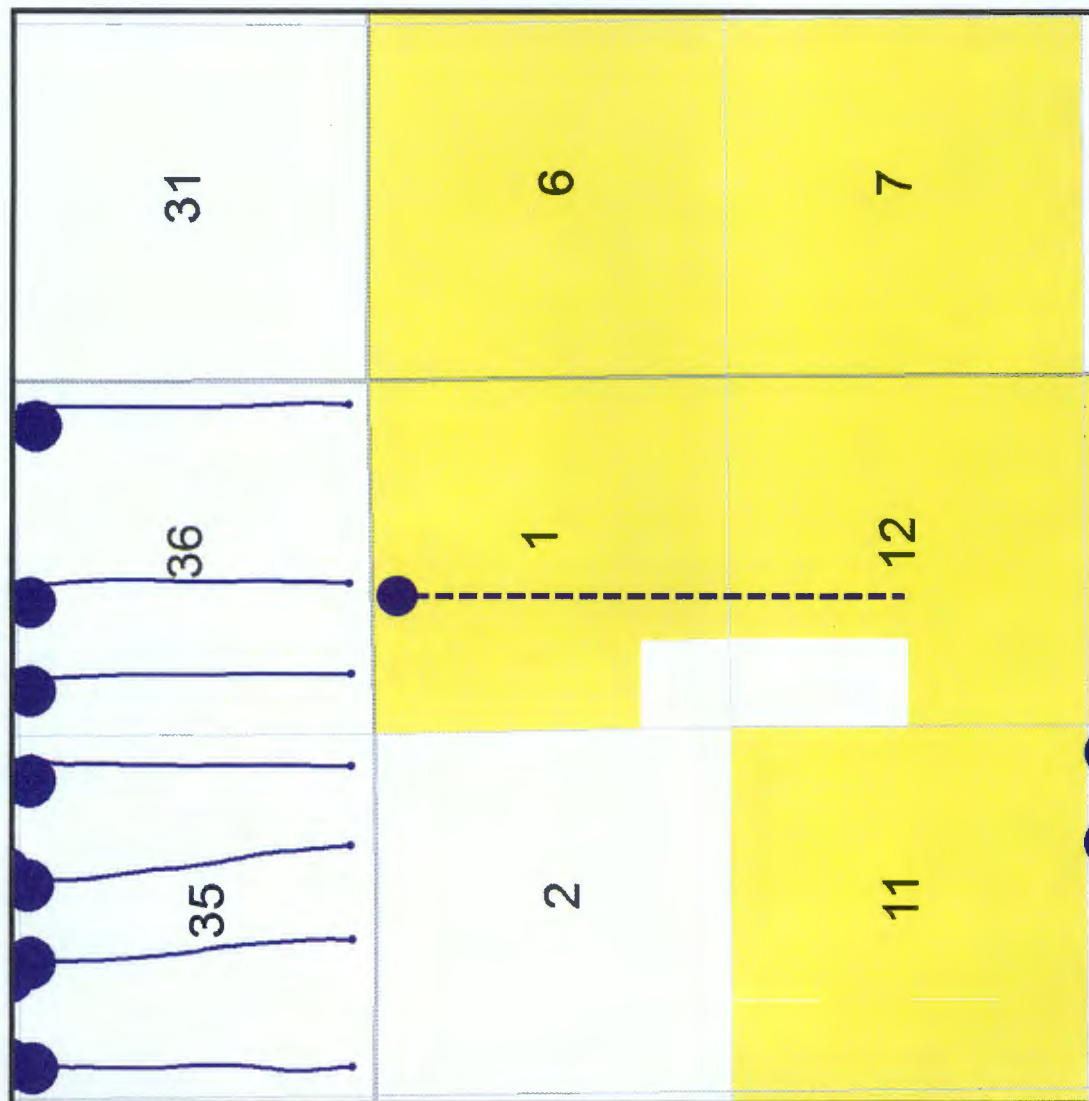
Date of Survey

Signature & Seal of Professional Surveyor



Chad Hargrow 2/14/18  
Certificate No. CHAD HARGROW 17777  
W.O. # 18-122 DRAWN BY: AM

# Bone Spring Pool Mortarboard Federal 13H Location



## Map Legend

SHL

COG - Horizontal Location

BHL

Producing TBSG Wells

COG Acreage

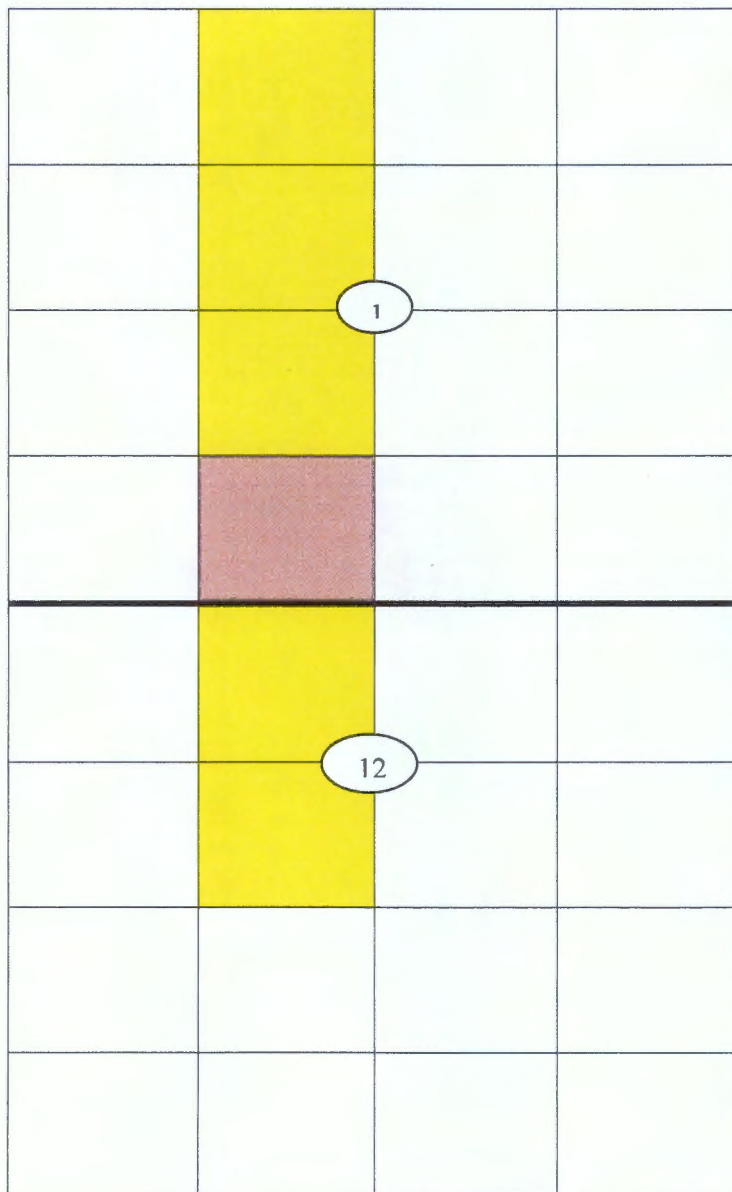
OCD Case No. 16019  
COG OPERATING  
Exhibit #2

**Mortarboard Federal Com 13H (Case No. 16019)**  
E2W2 of Section 1 & E2NW of Section 12, T24S-R34E, NMPM,  
Lea County, New Mexico

Tract: 1



Tract 2:



OCD Case No. 16019

**COG OPERATING  
Exhibit #3**

### Unit Working Interest

COG Operating, LLC	35.344292%
Oxy USA Inc.	48.198060%
TapRock Resources, LLC	4.999792%
— Energen Resources Corporation	1.354110%
— Chevron U.S.A. Inc.	1.718678%
Marathon Oil Permian, LLC	4.062331%
— OneEnergy Partners Operating, LLC	4.166493%
James T. Coppedge — INDIVIDUAL in INDIANA	0.052081%
David H. Arrington	0.104163%
<b>Total</b>	<b>100.000000%</b>

### Uncommitted or Nonconsenting Working Interest or Mineral Owner

#### Tract 1 – E2NW, NESW of Section 1 & E2NW of Section 12

COG Operating LLC	42.162328%
OXY USA Inc.	57.837672%
<b>Total</b>	<b>100.000000%</b>

#### Tract 2 – SESW of Section 12

COG Operating LLC	1.250000%
Chevron USA, Inc.	16.562500%
Marathon Oil Permian, LLC	24.375000%
OneEnergy Partners Operating, LLC	25.000000%
Energen Resources Corp.	1.875000%
Tap Rock Resources, LLC	30.000000%
James T. Coppedge	0.312500%
Commerce First Royalties	0.625000%
<b>Total</b>	<b>100.000000%</b>





January 17, 2018

Oxy USA Inc.  
5 Greenway Plaza, Ste 110  
Houston, TX 77046

**Re: Well REPROPOSAL – Mortarboard Federal Com #13H**

**Sec 1: E/2W/2 - T24S-R34E**

**Sec 12: E/2NW/4 - T24S-R34E**

**SHL: 210' FNL/ 1980' FWL, or a legal location in Sec 1 (Unit C)**

**BHL: 2440' FNL/ 1980' FWL, or a legal location in Sec 12 (Unit F)**

Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC ("COG"), as Operator, hereby proposes to drill the Mortarboard Federal Com #13H well as a horizontal well at the above-captioned location, or at a legal location as approved by the governing regulatory agency, to a TVD of approximately 11,877' and a MD of approximately 18,900' to test the Bone Spring Formation ("Operation"). The total cost of the Operation is estimated to be \$10,570,300, and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE").

COG is proposing to drill this well under the terms of the modified 1989 AAPL form of Operating Agreement which is enclosed for your review and approval. The Operating Agreement covers Sec 1: E/2W/2 - T24S-R34E and Sec 12: E/2NW/4 - T24S-R34E. It has the following general provisions:

- 100/300 Non-Consenting Penalty
- \$7,000/\$700 Drilling and Producing Rate
- COG Operating LLC named as Operator

Please indicate your election in the space provided below, sign and return this letter, along with a signed copy of the enclosed AFE and a copy of your geologic well requirements. A self-addressed, postage paid envelope is enclosed for your convenience. If you do not wish to participate, COG proposes to acquire your interest via term assignment. It has the following general provisions:

- 3 year primary term
- Delivering a 75% NRI, proportionately reduced
- \$2,000 per net acre bonus consideration

The Term Assignment offer expires 5 p.m., Central Time, February 20, 2018, and it is subject to the approval of COG's management and verification of title.

If an agreement cannot be reached within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well if uncommitted at such time.

OCD Case No. 16019

**COG OPERATING  
Exhibit #4**

P

F

If you have any questions, please contact the undersigned at (432) 685-4352 Msolomon@concho.com.

Respectfully,



Matt Solomon  
Senior Landman

\_\_\_\_\_ I/We hereby elect to participate in the Mortarboard Federal Com #13H.

\_\_\_\_\_ I/We hereby elect **not** to participate in the Mortarboard Federal Com #13H.

Company: \_\_\_\_\_

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

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## Melody Chappell

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**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, January 18, 2018 10:33 AM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242450640 Delivered

\*\*\*\* External email. Use caution. \*\*\*\*



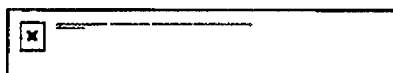
# Your package has been delivered

Tracking # 771242450640

Ship date:  
**Wed, 1/17/2018**

COG Operating  
MIDLAND, TX 79701  
US

Delivery date:  
**Thu, 1/18/2018 10:07  
am**




**Delivered**

OXY USA INC  
5 Greenway Plaza #110  
HOUSTON, TX 77046  
US

## Shipment Facts

Our records indicate that the following package has been delivered

Tracking number:	<b><u>771242450640</u></b>
Status:	Delivered: 01/18/2018 10:07 AM Signed for By: M.HALL
Signed for by:	M.HALL
Delivery location:	HOUSTON, TX
Delivered to:	Mailroom
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	2.00 lb
Special handling/Services:	Deliver Weekday
Standard transit:	1/18/2018 by 3:00 pm

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## Melody Chappell

**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, January 18, 2018 10:56 AM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242434172 Delivered

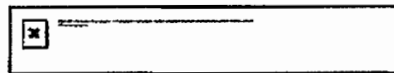
\*\*\*\* External email. Use caution. \*\*\*\*

### Your package has been delivered

Tracking # 771242434172

Ship date:  
**Wed, 1/17/2018**  
COG Operating  
MIDLAND, TX 79701  
US

Delivery date:  
**Thu, 1/18/2018 11:54  
am**  
James T. Coppedge  
1781 S US Hwy 231  
SPENCER, IN 47460  
US




**Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<b><u>771242434172</u></b>
Status:	Delivered: 01/18/2018 11:54 AM Signed for By: Signature not required
Signed for by:	Signature not required
Delivery location:	SPENCER, IN
Delivered to:	Residence
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday Residential Delivery
Standard transit:	1/18/2018 by 8:00 pm

 Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at  
Spencer, IN 47460, IN, US on 01/18/2018.



## Melody Chappell

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**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, January 18, 2018 10:57 AM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242448271 Delivered

\*\*\*\* External email. Use caution. \*\*\*\*

## Your package has been delivered

Tracking # 771242448271

Ship date:  
**Wed, 1/17/2018**

COG Operating LLC  
Concho  
Midland, TX 79701  
US

Delivery date:  
**Thu, 1/18/2018 10:55  
am**

Ann Akin  
5121 69th Street  
LUBBOCK, TX 79424  
US



### Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<b><u>771242448271</u></b>
Status:	Delivered: 01/18/2018 10:55 AM Signed for By Signature not required
Signed for by:	Signature not required
Delivery location:	LUBBOCK, TX
Delivered to:	Residence
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	1 00 lb
Special handling/Services:	Deliver Weekday Residential Delivery
Standard transit:	1/18/2018 by 3:00 pm

PDF created by our system to help you track your package. This email was sent from an unauthenticated mailbox. This report was generated at approximately 10:57 AM CST on 1/18/2018.

## Melody Chappell

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**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, January 18, 2018 11:15 AM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242532768 Delivered

\*\*\*\* External email. Use caution. \*\*\*\*

## Your package has been delivered

Tracking # 771242532768

Ship date:  
**Wed, 1/17/2018**  
Melody Chappell  
Concho  
MIDLAND, TX 79701  
US



Delivery date:  
**Thu, 1/18/2018 11:09 am**  
Energen Resources  
Corporation  
605 Richard Arrington, Jr. Blvd.  
N  
BIRMINGHAM, AL 35203  
US



### Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<b><u>771242532768</u></b>
Status:	Delivered 01/18/2018 11:09 AM Signed for By: A.BARBR
Signed for by:	A.BARBR
Delivery location:	BIRMINGHAM, AL
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	1/18/2018 by 3:00 pm

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## Melody Chappell

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**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, January 18, 2018 11:28 AM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242427870 Delivered

\*\*\*\* External email. Use caution. \*\*\*\*

### Your package has been delivered

Tracking # 771242427870

Ship date:  
**Wed, 1/17/2018**

COG Operating LLC  
Concho  
Midland, TX 79701  
US

Delivery date:  
**Thu, 1/18/2018 11:16  
am**

Marathon Oil Permian LLC  
5555 San Felipe St  
HOUSTON, TX 77056  
US

 **Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<b><u>771242427870</u></b>
Status:	Delivered: 01/18/2018 11:16 AM Signed for By: R.VARGAS
Signed for by:	R.VARGAS
Delivery location:	HOUSTON, TX
Delivered to:	Mailroom
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	1/18/2018 by 3:00 pm

 Please do not respond to this message. This email was sent from an unlettered mailbox. This report was generated at approximately 11:21 AM CST on 01/18/2018.

11 pages (see summary)

## Melody Chappell

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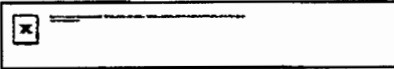
**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, January 18, 2018 12:29 PM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242436201 Delivered

\*\*\*\* External email. Use caution. \*\*\*\*

### Your package has been delivered

Tracking # 771242436201

Ship date:  
**Wed, 1/17/2018**  
Melody Chappell  
Concho  
MIDLAND, TX 79701  
US

Delivery date:  
**Thu, 1/18/2018 12:22 pm**  
  
**One Energy Partners  
Operating, LLC**  
2929 Allen Pkwy, Suite 200  
HOUSTON, TX 77019  
US

**Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<b><u>771242436201</u></b>
Status:	Delivered: 01/18/2018 12:22 PM Signed for By K.CARDENAS
Signed for by:	K.CARDENAS
Delivery location:	HOUSTON, TX
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	1/18/2018 by 3:00 pm

 Please do not respond to this message. This email was sent from an unmonitored mailbox. This report was generated on 01/18/2018 12:29 PM CST on 01/18/2018

## Melody Chappell

**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, January 18, 2018 3:16 PM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242462172 Delivered

\*\*\*\* External email. Use caution. \*\*\*\*

### Your package has been delivered

Tracking # 771242462172

Ship date:  
**Wed, 1/17/2018**  
COG Operating LLC  
Concho  
Midland, TX 79701  
US

Delivery date:  
**Thu, 1/18/2018 3:13 pm**  
Chevron USA INC  
6301 Deauville RD  
MIDLAND, TX 79706  
US




**Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<b><u>771242462172</u></b>
Status:	Delivered 01/18/2018 3:13 PM Signed for By: M BROWN
Signed for by:	M BROWN
Delivery location:	MIDLAND, TX
Delivered to:	Shipping/Receiving
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	1.00 lb
Special handling/Services:	Deliver Weekday
Standard transit:	1/18/2018 by 4:30 pm

 Please do not respond to this message. The sender verified from an unattended mailbox. This message was generated by a computer on 01/18/2018 05:16:05 PM.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

## Melody Chappell

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**From:** TrackingUpdates@fedex.com  
**Sent:** Friday, January 19, 2018 1:58 PM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242462183 Delivered

\*\*\*\* External email. Use caution. \*\*\*\*

### Your package has been delivered

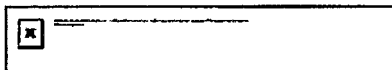
Tracking # 771242462183

Ship date:  
**Wed, 1/17/2018**

COG Operating  
MIDLAND, TX 79701  
US

Delivery date:  
**Fri, 1/19/2018 12:50 pm**

Tap Rock Resources, LLC  
602 Park Point DR  
HOUSTON, TX 77046  
US



**Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<b><u>771242462183</u></b>
Status:	Delivered: 01/19/2018 12:50 PM Signed for By: R.BEERMA
Signed for by:	R.BEERMA
Delivery location:	HOUSTON, TX
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	2.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	1/18/2018 by 3:00 pm

 Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at 1/19/2018 1:52 PM CST on 01/19/2018.

Delivery date is estimated.



**From:** TrackingUpdates@fedex.com  
**Sent:** Friday, January 19, 2018 3:27 PM  
**To:** Melody Chappell  
**Subject:** [External] FedEx Shipment 771242501596 Delivered

# Your package has been delivered

**Tracking # 771242501596**

Ship date:  
**Wed, 1/17/2018**

**Malody Chappell**  
Concho  
MIDLAND, TX 79701  
US

Delivery date:  
Fri, 1/19/2018 3:24 pm

David Arrington  
David Arrington O&G  
214 W. Texas Ave.  
MIDLAND, TX 79701  
US

Delivered

## Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<u>771242501596</u>
Status:	Delivered: 01/19/2018 3:24 PM Signed for By: D.CABODO
Signed for by:	D.CABODO
Delivery location:	MIDLAND, TX
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Pak
Number of pieces:	1
Weight:	1.00 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	1/18/2018 by 3:00 pm

Printed on: 2/26/2019 10:26:54 AM. This report was generated by: [redacted]

**\* \* \* \* \***



# HINKLE SHANOR LLP

ATTORNEYS AT LAW

PO BOX 2068

SANTA FE, NEW MEXICO 87504

505-982-4554 (FAX) 505-982-8623

WRITER:

Gary W. Larson,  
Partner

glarson@hinklelawfirm.com

February 27, 2018

## VIA CERTIFIED MAIL

CrownRock Minerals, L.P.  
P.O. Box 51933  
Midland, TX 79710

Re: COG Operating LLC NMOCD Application

Dear Sir or Madam:

Enclosed is a copy of an application for approval of a 240.01-acre, more or less, non-standard spacing and proration unit and compulsory pooling that COG Operating LLC ("COG") has filed with the New Mexico Oil Conservation Division ("the Division"). The proposed non-standard spacing and proration unit is comprised of the E/2 W/2 of Section 1 and the E/2 NW/4 of Section 12, Township 24 South, Range 34 East, N.M.P.M., Lea County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, March 22, 2018 in Porter Hall at the Division's offices located at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. CrownRock Minerals, L.P. ("CrownRock") is not required to attend this hearing, but as an owner of an interest that may be affected by COG's application, it may appear at the hearing and present testimony. If CrownRock does not appear at that time and become a party of record, it will be precluded from contesting the matter at a later date.

A party appearing in a Division case is required by the Division's Rules to file a Pre-Hearing Statement, which in this matter must be filed no later than Thursday, March 15, 2018. The Pre-Hearing Statement must be filed with the Division's Santa Fe office at the address above, and should include: the name of the party and the party's attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate amount of time the party will need to present the party's case; and an identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to me.

Thank you for your attention to this matter.

Very truly yours,

Gary W. Larson

GWL:sm  
Enclosure

OCD Case No. 16019

**COG OPERATING  
Exhibit #5**

PO BOX 10  
ROSWELL, NEW MEXICO 88202  
575-622-6510  
(FAX) 575-623-9332

PO BOX 1720  
ARTESIA, NEW MEXICO 88211  
575-622-6510  
(FAX) 575-746-6316

PO BOX 2068  
SANTA FE, NEW MEXICO 87504  
505-982-4554  
(FAX) 505-982-8623

7601 JEFFERSON ST NE • SUITE 180  
ALBUQUERQUE, NEW MEXICO 87109  
505-858-8320  
(FAX) 505-858-8321

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <b>X</b> </p> <p style="text-align: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>
<p>1. Article Addressed to:</p> <p style="margin-left: 20px;">Chevron U.S.A. Inc. P.O. Box 2100 Houston, TX 77252</p>	<p>B. Received by (Printed Name) _____</p> <p>C. Date of Delivery <b>3-7-18</b></p>
<p>2. Article Number (Transfer from service label)</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">7012 0470 0001 5963 2298</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
 9590 9402 3019 7124 7211 53	<p>3. Service Type</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail             </div> <div style="width: 35%;"> <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Signature Confirmation Restricted Delivery             </div> </div> <p><input type="checkbox"/> Restricted Delivery</p>

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

4902 2048 0000 0610 2102

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

<p>Certified Mail Fee \$ _____</p> <p>Extra Services &amp; Fees (check box, add fee as appropriate)</p> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Return Receipt (hardcopy)             <div style="border-bottom: 1px solid black; width: 80%;"></div> </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Return Receipt (electronic)             <div style="border-bottom: 1px solid black; width: 80%;"></div> </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Certified Mail Restricted Delivery             <div style="border-bottom: 1px solid black; width: 80%;"></div> </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Adult Signature Required             <div style="border-bottom: 1px solid black; width: 80%;"></div> </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Adult Signature Restricted Delivery             <div style="border-bottom: 1px solid black; width: 80%;"></div> </div>	<div style="text-align: center;">               Postmark Here           </div> <p>Postage \$ _____</p> <p>Total Postage and Fees \$ _____</p> <p>Sent To _____</p> <p>Street and Apt. No., or PO Box No 110 W. Louisiana Ave. #404</p> <p>City, State, ZIP+4® Midland, TX 79701</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <b>X</b> </p> <p style="text-align: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>
<p>1. Article Addressed to:</p> <p style="margin-left: 20px;">CrownRock Minerals, LP P.O. Box 51933 Midland, TX 79710</p>	<p>B. Received by (Printed Name) <b>Jordan Shelby</b></p> <p>C. Date of Delivery <b>3/5/18</b></p>
<p>2. Article Number (Transfer from service label)</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">7017 0190 0000 8402 3095</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
 9590 9402 3019 7124 7209 41	<p>3. Service Type</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail             </div> <div style="width: 35%;"> <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Signature Confirmation Restricted Delivery             </div> </div> <p><input type="checkbox"/> Restricted Delivery</p>

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt



## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

David H. Arrington  
P.O. Box 2071  
Midland, TX 79702



9590 9402 3019 7124 7211 46

2. Article Number (Transfer from service label)

7012 0470 0001 5963 2281

PS Form 3811, July 2015 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐
- Agent
- 
- ☐
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D.

Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐
- Adult Signature
- 
- ☐
- Adult Signature Restricted Delivery
- 
- ☒
- Certified Mail®
- 
- ☐
- Certified Mail Restricted Delivery
- 
- ☐
- Collect on Delivery
- 
- ☐
- Collect on Delivery Restricted Delivery

- ☐
- Priority Mail Express®
- 
- ☐
- Registered Mail™
- 
- ☐
- Registered Mail Restricted Delivery
- 
- ☐
- Return Receipt for Merchandise
- 
- ☐
- Signature Confirmation™
- 
- ☐
- Signature Confirmation Restricted Delivery

II Restricted Delivery

Domestic Return Receipt

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Energen Resources Corporation  
605 Richard Arrington, Jr. Blvd. N.  
Birmingham, AL 35203



9590 9402 3019 7124 7211 39

2. Article Number (Transfer from service label)

7012 0470 0001 5963 2274

PS Form 3811, July 2015 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐
- Agent
- 
- ☐
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D.

Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐
- Adult Signature
- 
- ☐
- Adult Signature Restricted Delivery
- 
- ☒
- Certified Mail®
- 
- ☐
- Certified Mail Restricted Delivery
- 
- ☐
- Collect on Delivery
- 
- ☐
- Collect on Delivery Restricted Delivery

- ☐
- Priority Mail Express®
- 
- ☐
- Registered Mail™
- 
- ☐
- Registered Mail Restricted Delivery
- 
- ☐
- Return Receipt for Merchandise
- 
- ☐
- Signature Confirmation™
- 
- ☐
- Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

James T. Coppedge  
P.O. Box 43  
Spencer, IN 47460



9590 9402 3019 7124 7211 22

2. Article Number (Transfer from service label)

7012 0470 0001 5963 2267

PS Form 3811, July 2015 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐
- Agent
- 
- ☐
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D.

Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐
- Adult Signature
- 
- ☐
- Adult Signature Restricted Delivery
- 
- ☒
- Certified Mail®
- 
- ☐
- Certified Mail Restricted Delivery
- 
- ☐
- Collect on Delivery
- 
- ☐
- Collect on Delivery Restricted Delivery

- ☐
- Priority Mail Express®
- 
- ☐
- Registered Mail™
- 
- ☐
- Registered Mail Restricted Delivery
- 
- ☐
- Return Receipt for Merchandise
- 
- ☐
- Signature Confirmation™
- 
- ☐
- Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt



## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

JM Resources, LP  
P.O. Box 2217  
Midland, TX 79702



9590 9402 3019 7124 7209 27

## 2. Article Number (Transfer from service label)

7017 0190 0000 8402 3071

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X *James Tuck*

- ☐ Agent  
☐ Addressee

## B. Received by (Printed Name)

*James Tuck*

## C. Date of Delivery

3-5-18

- D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

## 3. Service Type

- ☐ Adult Signature  
☐ Adult Signature Restricted Delivery  
☒ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®  
☐ Registered Mail™  
☐ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Marathon Oil Permian LLC  
5555 San Felipe St.  
Houston, TX 77056



9590 9402 3019 7124 7211 15

## 2. Article Number (Transfer from service label)

7012 0470 0001 5963 2205

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X *Richard Vandy*

- ☐ Agent  
☐ Addressee

## B. Received by (Printed Name)

*Richard Vandy*

## C. Date of Delivery

3/5/18

- D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

## 3. Service Type

- ☐ Adult Signature  
☐ Adult Signature Restricted Delivery  
☒ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®  
☐ Registered Mail™  
☐ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

Mail

Mail Restricted Delivery

(over 5000)

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

OneEnergy Partners Operating LLC  
2929 Allen Parkway, Suite 200  
Houston, TX 77019



9590 9402 3019 7124 7211 08

## 2. Article Number (Transfer from service label)

7012 0470 0001 5963 2199

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X *B. White*

- ☒ Agent  
☐ Addressee

## B. Received by (Printed Name)

*B. White*

## C. Date of Delivery

3/4/18

- D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

## 3. Service Type

- ☐ Adult Signature  
☐ Adult Signature Restricted Delivery  
☒ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®  
☐ Registered Mail™  
☐ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

Mail

Mail Restricted Delivery

(over 5000)

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt



## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

OXY USA Inc.  
5 Greenway Plaza, Ste. 110



9590 9402 3019 7124 7209 34

2. Article Number (Transfer from service label)

7017 0190 0000 8402 3088

PS Form 3811, July 2015 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail  
all Restricted Delivery☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Robert Landreth  
110 W. Louisiana Ave. Ste. 404  
Midland, TX 79701



9590 9402 3019 7124 7209 03

2. Article Number (Transfer from service label)

7017 0190 0000 8402 3057

PS Form 3811, July 2015 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail

all Restricted Delivery

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Tap Rock Resources, LLC  
602 Park Point Drive, Suite 200  
Golden, CO 80401



9590 9402 3019 7124 7210 92

2. Article Number (Transfer from service label)

7012 0470 0001 5963 2182

PS Form 3811, July 2015 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☒ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☒ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail

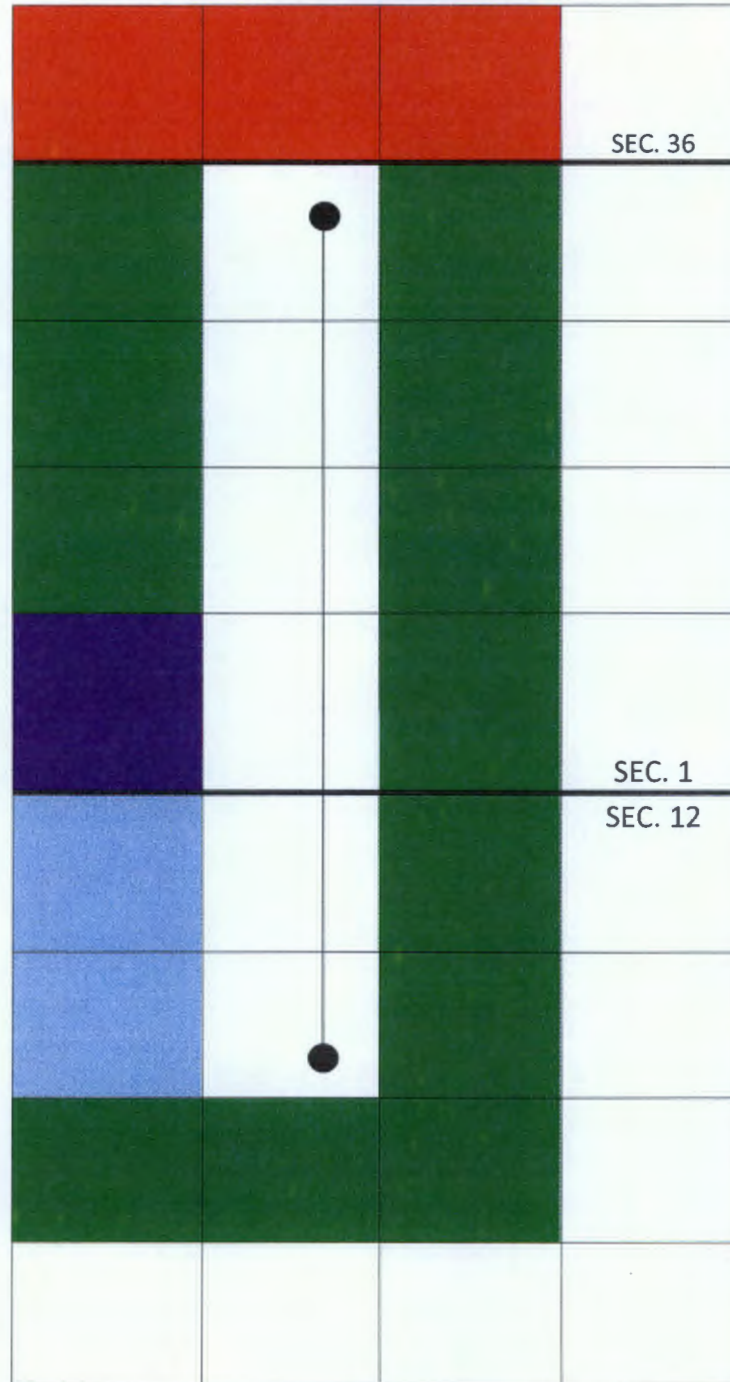
all Restricted Delivery

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt



Mortarboard Federal Com 13H (SHL: NENW, Sec. 1, T24S-R34E)



- Units Operated by Mewbourne Oil Company
- BLM Lease owned by COG Operating LLC and Oxy USA Inc.
- Working Interest owned by OneEnergy Partners Operating, LLC
- Working Interest owned by Marathon Oil Permian LLC, Blackbird Royalties LLC, CBA Properties, LLC, One Energy Partners Operating LLC, Energen Resources Corporation

OCD Case No. 16019

**COG OPERATING  
Exhibit #6**

**ADDRESSES OF OFFSET INTERESTS**

OXY USA Inc.  
5 Greenway Plaza, Suite 110  
Houston, TX 77046

Marathon Oil Permian LLC  
5555 San Felipe St.  
Houston, TX 77056

Blackbird Royalties LLC  
28 Haley Circle  
Roswell, NM 88201

CBA Properties LLC  
4425 98th St. #300  
Lubbock, TX 79424

OneEnergy Partners Operating LLC  
2929 Allen Parkway Suite 200  
Houston, TX 77019

Energen Resources Corporation  
605 Richard Arrington, Jr.,  
Boulevard North  
Birmingham, AL 35203

Mewbourne Oil Company  
500 West Texas Ave., Suite 1020  
Midland, TX 79701



## HINKLE SHANOR LLP

ATTORNEYS AT LAW

PO BOX 2068

SANTA FE, NEW MEXICO 87504

505-982-4554 (FAX) 505-982-8623

WRITER:

Gary W. Larson,  
Partner

glarson@hinklelawfirm.com

February 27, 2018

### VIA CERTIFIED MAIL

CBA Properties LLC  
4425 98<sup>th</sup> St. #300  
Lubbock, TX 79424

Re: COG Operating LLC NMOCD Application

Dear Sir or Madam:

Enclosed is a copy of an application for approval of a 240.01-acre, more or less, non-standard spacing and proration unit and compulsory pooling that COG Operating LLC ("COG") has filed with the New Mexico Oil Conservation Division ("the Division").

The proposed non-standard spacing and proration unit is comprised of the E/2 W/2 of Section 1 and the E/2 NW/4 of Section 12, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico. The location of the proposed project area is orthodox. CBA Properties LLC's ("CBA") interests are not being pooled, but as the owner of an interest in an offsetting tract, it is entitled to receive notice of COG's application.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, March 22, 2018, in Porter Hall at the Division's offices located at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. CBA is not required to attend this hearing, but as an owner of an interest in an offset tract, it has the right to appear at the hearing and present testimony. If CBA does not appear at the hearing, it will be precluded from contesting the matter at a later date.

A party appearing in the case is required by the Division's Rules to file a Pre-Hearing Statement, which in this matter must be filed no later than Thursday, March 15, 2018. The Pre-Hearing Statement must be filed with the Division's Santa Fe office at the address above, and should include: the name of the party and the party's attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate amount of time the party will need to present the party's case; and an identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to me.

Thank you for your attention to this matter.

Very truly yours,

Gary W. Larson

OCD Case No. 16019

**COG OPERATING  
Exhibit #7**

GWL:sm  
Enclosure

PO BOX 10  
ROSWELL, NEW MEXICO 88202  
575-622-6510  
(FAX) 575-623-9332

PO BOX 1720  
ARTESIA, NEW MEXICO 88211  
575-622-6510  
(FAX) 575-746-6316

PO BOX 2068  
SANTA FE, NEW MEXICO 87504  
505-982-4554  
(FAX) 505-982-8623

7601 JEFFERSON ST NE • SUITE 180  
ALBUQUERQUE, NEW MEXICO 87109  
505-858-8320  
(FAX) 505-858-8321

7012 0470 0001 5963 2328

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 Certified Fee  
 Return Receipt Fee  
 (Endorsement Required)  
 Restricted Delivery Fee  
 (Endorsement Required)  
 Total Postage & Fees \$



Sent To  
 Street, Apt. No.,  
 or PO Box No. Blackbird Royalties  
 28 Haley Circle  
 City, State, ZIP+4 Roswell, NM 88201

PS Form 3800, August 2006

See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

**1. Article Addressed to:**

CBA Properties LLC  
 4425 98<sup>th</sup> St. #300  
 Lubbock, TX 79424



9590 9402 3019 7124 7211 77

**2. Article Number (Transfer from service label)**

7012 0470 0001 5963 2311

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

**A. Signature**

X *[Signature]*

☐ Agent

☐ Addressee

**B. Received by (Printed Name)**

*[Signature]*

**C. Date of Delivery**

3-2

**D. Is delivery address different from item 1?**

☒ Yes  
 If YES, enter delivery address below: ☐ No

**3. Service Type**

- ☐ Adult Signature  
☐ Adult Signature Restricted Delivery  
☒ Certified Mail®  
☐ Certified Mail Restricted Delivery  
☐ Collect on Delivery  
☐ Collect on Delivery Restricted Delivery  
☐ Insured Mail

- ☐ Priority Mail Express®  
☐ Registered Mail™  
☐ Registered Mail Restricted Delivery  
☐ Return Receipt for Merchandise  
☐ Signature Confirmation™  
☐ Signature Confirmation Restricted Delivery

☐ All Restricted Delivery

Domestic Return Receipt

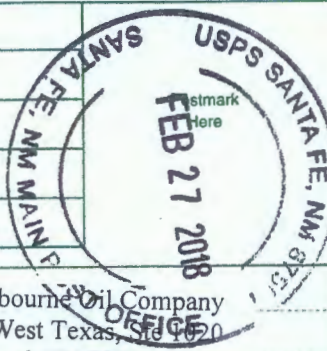
7012 0470 0001 5963 2304

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**OFFICIAL USE**

Postage \$  
 Certified Fee  
 Return Receipt Fee  
 (Endorsement Required)  
 Restricted Delivery Fee  
 (Endorsement Required)  
 Total Postage & Fees \$



Sent To  
 Street, Apt. No.,  
 or PO Box No. Mewbourne Oil Company  
 500 West Texas, Ste 100  
 City, State, ZIP+4 Midland, TX 79701

PS Form 3800, August 2006

See Reverse for Instructions

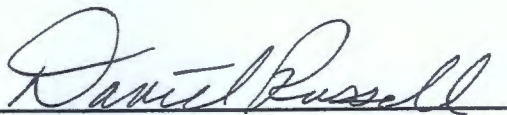


# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

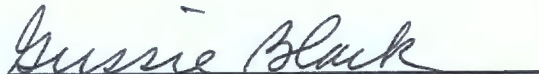
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
March 01, 2018  
and ending with the issue dated  
March 01, 2018.



Publisher

Sworn and subscribed to before me this  
1st day of March 2018.

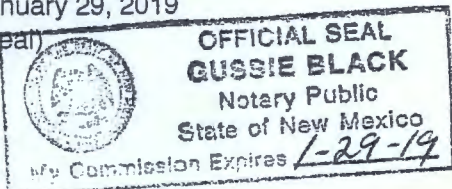


Business Manager

My commission expires

January 29, 2019

(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

## **LEGAL NOTICE** March 1, 2018

This is to notify all interested parties, including Mewbourne Oil Company, OneEnergy Partners Operating LLC, Marathon Oil Permian LLC, Blackbird Royalties LLC, CBA Properties LLC, Energen Resources Corporation, Chevron U.S.A. Inc., Tap Rock Resources, LLC, James T. Coppedge, David H. Arrington, OXY USA Inc., Robert Landreth, JM Resources, LP, Chilmark Properties, LLC, CrownRock Minerals, L.P., and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by COG Operating LLC (Case No. 16019) at 8:15 a.m. on March 22, 2018 in Porter Hall at 1220 South St. Francis Drive, Santa Fe, New Mexico. COG Operating LLC seeks an order (i) creating a 240.01-acre, more or less, non-standard oil spacing and proration unit (project area) comprised of the E/2 W/2 of Section 1 and the E/2 NW/4 of Section 12, Township 24 South, Range 34 East, NMPM, in Lea County, and (ii) pooling all uncommitted mineral interests in the Bone Spring formation underlying this acreage. The project area is to be dedicated to the Mortarboard Federal Com #13 H horizontal well, which will have a surface location in Lot 3 of Section 1 and a bottom hole location in Unit F of Section 12, Township 24 South, Range 34 East. The completed interval for the well will be within the 330-foot standard offset required by the Division's rules. Also to be considered will be the cost of drilling and completing the well and the allocation of the cost, the designation of COG Operating LLC as the operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The proposed project area is located approximately sixteen (16) miles northwest of Jal, New Mexico. #32567

02107475

00208014

HINKLE, HENSLEY, SHANOR & MARTIN, LLP  
PO BOX 2068  
SANTA FE, NM 87504

OCD Case No. 16019

**COG OPERATING**  
**Exhibit #8**

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>Mortarboard Federal Com #13H</b>	PROSPECT NAME: <b>Bulldog 2434 (717040)</b>
SHL: <b>Sec 1: 210 FNL &amp; 1980 FWL</b>	STATE & COUNTY: <b>New Mexico, Lea</b>
BHL: <b>Sec 12: 2440 FNL &amp; 1980 FWL</b>	OBJECTIVE: <b>Drill and Complete</b>
FORMATION: <b>3rd Bone Spring</b>	DEPTH: <b>18,900</b>
LEGAL: <b>Sec 1: 24S-34E</b>	TVD: <b>11,877</b>

		Drilg - Rig	Completion(C)	Tank Btty.	Pmpg.	
		Release(D)		Constrctn(TB)	Equipment(PEQ)	TOTAL
<b>INTANGIBLE COSTS</b>						
Title/Curative/Permit	201	11,000				11,000
Insurance	202	20,000	302			20,000
Damages/Right of Way	203	5,000	303	351		5,000
Survey/Stake Location	204	6,000		352		6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	220,000
Drilling / Completion Overhead	206	9,300	306			9,300
Turnkey Contract	207					0
Footage Contract	208					0
Daywork Contract	209	700,000				700,000
Directional Drilling Services	210	285,000				285,000
Frac Equipment			307	994,000		994,000
Frac Chemicals			308	553,000		553,000
Frac Proppant			309	833,000		833,000
Frac Proppant Transportation			310	106,000		106,000
Fuel & Power	211	177,000	311	5,000	354	182,000
Water	212	30,000	312	621,000	368	651,000
Bits	213	122,400	313	4,500	369	126,900
Mud & Chemicals	214	185,000	314	25,000	370	210,000
Drill Stem Test	215		315			0
Coring & Analysis	216					0
Cement Surface	217	20,000				20,000
Cement Intermediate	218	50,000				50,000
Cement 2nd Intermediate/Production	219	60,000				60,000
Cement Squeeze & Other (Kickoff Plug)	220	0			371	0
Float Equipment & Centralizers	221	22,000				22,000
Casing Crews & Equipment	222	55,000				55,000
Fishing Tools & Service	223	0	323		372	0
Geologic/Engineering	224	0	324	355	373	0
Contract Labor	225	5,500	325	8,200	356	270,200
Company Supervision	226	55,800	326	15,000	357	70,800
Contract Supervision	227	106,000	327	178,000	358	280,000
Testing Casing/Tubing	228	20,000	328	10,000	377	30,000
Mud Logging Unit	229	41,000	329			41,000
Logging	230	0			378	0
Perforating/Wireline Services	231	4,000	331	372,000	379	376,000
Stimulation/Treating			332	12,000	380	12,000
Completion Unit			333	138,000	381	146,800
Swabbing Unit			334		382	0
Rentals-Surface	235	175,000	335	260,000	359	442,000
Rentals-Subsurface	236	175,000	336	55,000	384	230,000
Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360	143,000
Welding Services	238	4,000	338	5,000	361	9,000
Water Disposal	239	0	339	60,000	362	135,000
Plug to Abandon	240	0	340			0
Seismic Analysis	241	0	341			0
Miscellaneous	242	0	342		389	0
Contingency	243	52,000	343	175,000	363	227,000
Closed Loop & Environmental	244	250,000	344	5,000	364	255,000
Dyed Diesel	245		345	327,000		327,000
Coil Tubing			346	250,000		250,000
Flowback Crews & Equip			347	48,000		48,000
Offset Directional/Frac	248		348		391	0
<b>TOTAL INTANGIBLES</b>		<b>2,886,000</b>	<b>5,090,700</b>	<b>475,000</b>	<b>30,300</b>	<b>8,462,000</b>
<b>TANGIBLE COSTS</b>						
Surface Casing	401	46,000				46,000
Intermediate Casing	402	276,000				276,000
Production Casing/Liner	403	360,000				360,000
Tubing			504	47,300	530	52,300
Wellhead Equipment	405	75,000	505	22,000	531	100,000
Pumping Unit				0	506	96,000
Prime Mover				0	507	0
Rods				0	508	35,000
Pumps-Sub Surface (BH)			509		532	5,000
Tanks				138,000	510	138,000
Flowlines				15,000	511	15,000
Heater Treater/Separator				192,000	512	192,000
Electrical System				220,000	513	220,000
Packers/Anchors/Hangers	414		514	66,000	533	15,000
Couplings/Fittings/Valves	415				534	2,000
Dehydration				280,000	515	280,000
Injection Plant/CO2 Equipment					517	0
Pumps-Surface				31,000	521	31,000
Instrumentation/SCADA/POC					522	7,000
Miscellaneous	419		519		523	3,000
Contingency	420		520		524	0
Meters/LACT				36,000	525	36,000
Flares/Combustors/Emission				63,000	526	63,000
Gas Lift/Compression			527	15,000	516	50,000
<b>TOTAL TANGIBLES</b>		<b>757,000</b>	<b>150,300</b>	<b>1,010,000</b>	<b>171,000</b>	<b>2,098,300</b>
<b>TOTAL WELL COSTS</b>		<b>3,643,000</b>	<b>5,241,000</b>	<b>1,485,000</b>	<b>201,300</b>	<b>10,570,300</b>

COG Operating LLC      % of Total Well Cost      34%      50%      14%      2%

Date Prepared: \_\_\_\_\_

We approve: \_\_\_\_\_

Company: \_\_\_\_\_

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

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

COG Operating LLC

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

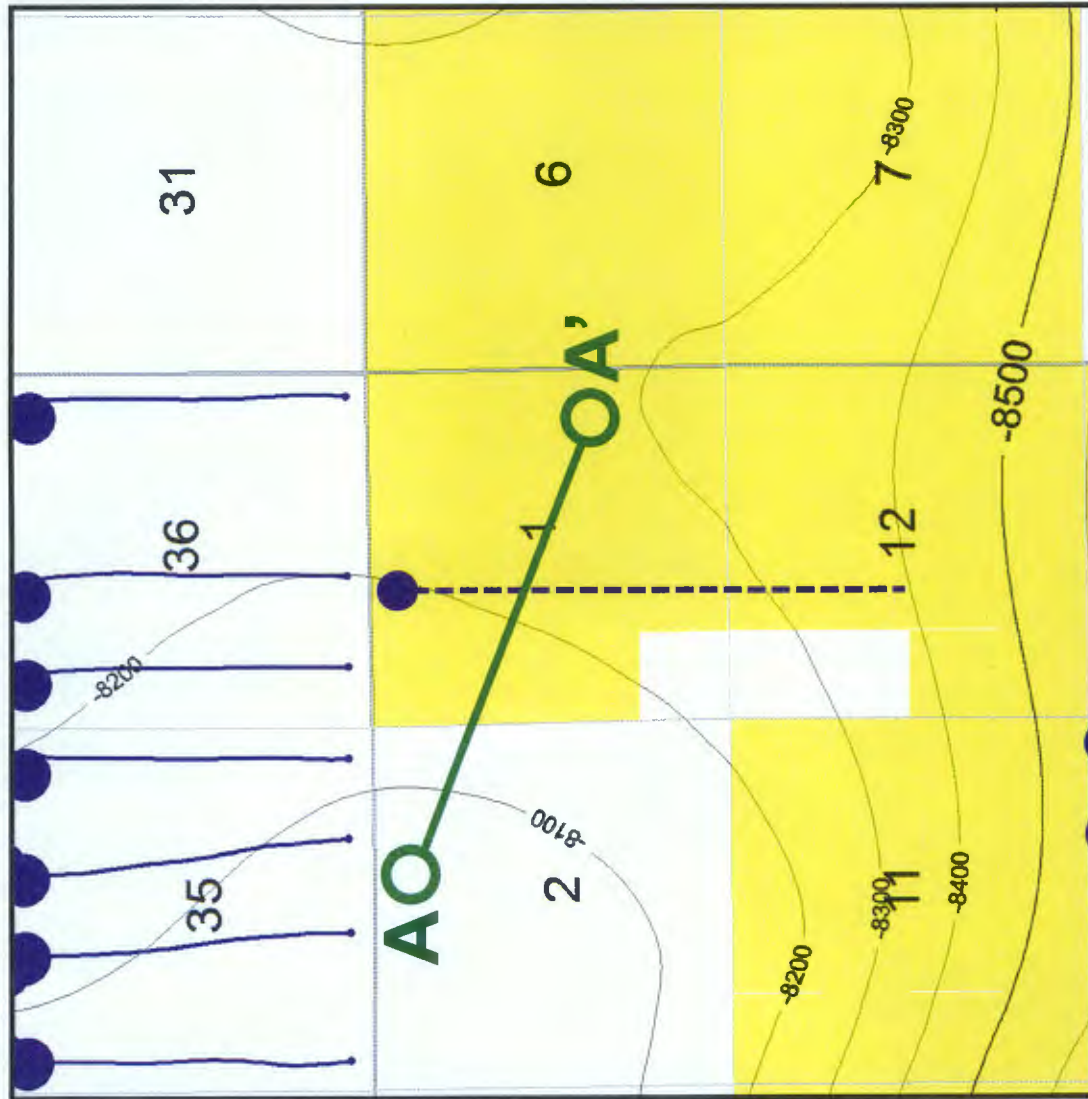
This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.

OCD Case No. 16019

**COG OPERATING  
Exhibit #9**



# Bone Spring Pool Wolfcamp Structure Map

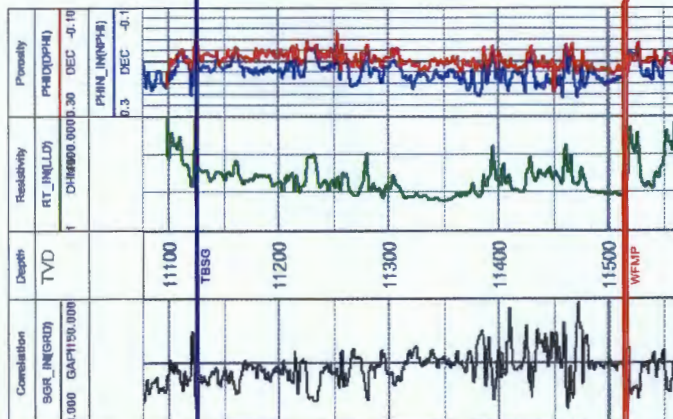
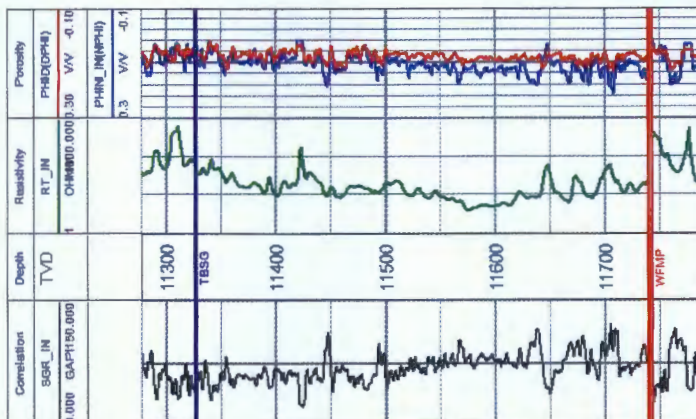


## Map Legend

- SHL
- BHL
- COG - Horizontal Location
- Producing TBSG Wells
- TBSG Structure  
Cl: 100'
- COG Acreage
- Cross Section Line

OCD Case No. 16019  
COG OPERATING  
Exhibit #10

# Stratigraphic Cross Section A - A'



**DATUM**

Lateral  
Interval