

AUG 19 2016

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (575) 748-1283 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

RECEIVED

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                    |                                     |                                |
|------------------------------------|-------------------------------------|--------------------------------|
| API Number<br>30-025- <b>43390</b> | Pool Code<br>41440                  | Pool Name<br>Lusk; Bone Spring |
| Property Code<br>308161 ✓          | Property Name<br>LUSK DEEP UNIT A   | Well Number<br>33H             |
| OGRID No.<br>229137                | Operator Name<br>COG OPERATING, LLC | Elevation<br>3585.2'           |

## Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 18      | 19-S     | 32-E  |         | 373           | SOUTH            | 1166          | EAST           | 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 0             | 19      | 19-S     | 32-E  |         | 50            | SOUTH            | 1980          | EAST           | LEA    |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 160             |                 |                    |           |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>LOT 1<br/>40.90 Ac</p> <p>LOT 2<br/>40.84 Ac</p> <p>LOT 3<br/>40.81 Ac</p> <p>LOT 4<br/>40.84 Ac</p> <p>SECTION 18</p> <p>SECTION 19</p> <p>LOT 1<br/>40.70 Ac</p> <p>LOT 2<br/>40.74 Ac</p> <p>LOT 3<br/>40.81 Ac</p> <p>LOT 4<br/>40.86 Ac</p> <p>PROJECT AREA</p> <p>PRODUCING AREA</p> <p>GRID AZ. -187°52'23"</p> <p>HORIZ. DIST. -5651.3'</p> <p>S.L. 1166'</p> <p>373'</p> <p>Y=601712.0 N<br/>X=662587.1 E</p> <p>Y=601718.5 N<br/>X=663910.9 E</p> <p>Y=596443.6 N<br/>X=662629.6 E</p> <p>Y=596445.0 N<br/>X=663950.3 E</p> <p>50'</p> <p>B.H.</p> <p>1980'</p> <p>NAD 27<br/>SURFACE LOCATION<br/>Y=602092.3 N<br/>X=664064.9 E<br/>LAT.=32.654121° N<br/>LONG.=103.800267° W</p> <p>NAD 27<br/>PROPOSED BOTTOM<br/>HOLE LOCATION<br/>Y=596494.3 N<br/>X=663290.8 E<br/>LAT.=32.638745° N<br/>LONG.=103.802873° W</p> <p>NMLC0064198A</p> <p>NMNM025566</p> | <p><b>OPERATOR CERTIFICATION</b></p> <p>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.</p> <p><i>Mayte Reyes</i> 8-3-16<br/>Signature Date<br/>Mayte Reyes<br/>Printed Name<br/>mreyes1@concho.com<br/>E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>MAY 18, 2016<br/>Date of Survey</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><i>Chad L. Harcrow</i><br/>CHAD L. HARCROW<br/>NEW MEXICO<br/>17777<br/>LICENSED PROFESSIONAL SURVEYOR</p> <p>5/18/16<br/>Certificate No. CHAD HARCROW 17777<br/>W.O. # 16-373 DRAWN BY: AF</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

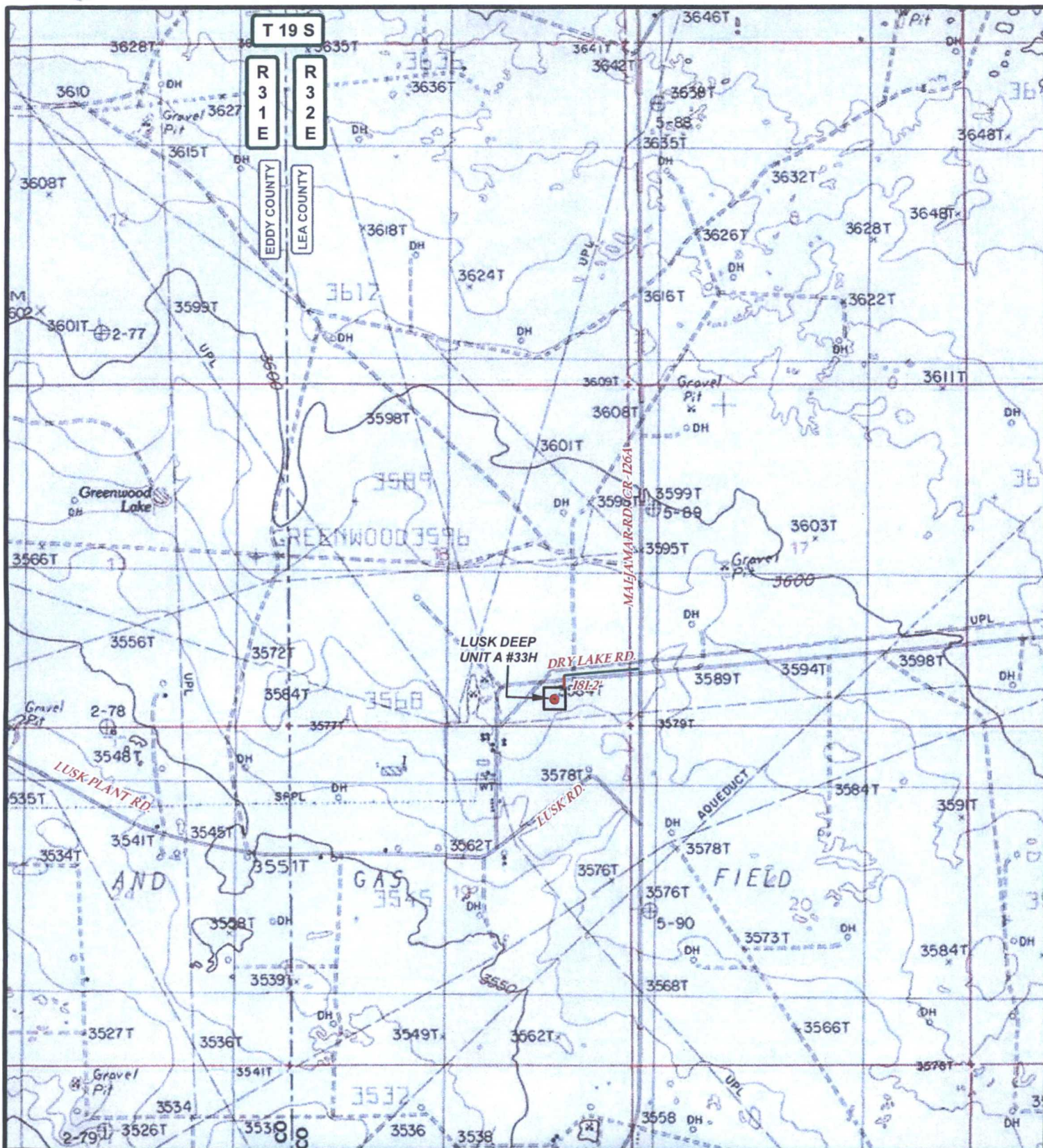
## NEW MEXICO



Scale: 1"=100'



FILE: 16-373

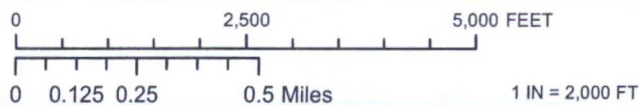


# LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

## LUSK DEEP UNIT A #33H

SEC: 18 TWP: 19 S. RGE: 32 E. ELEVATION: 3585.2'  
 STATE: NEW MEXICO COUNTY: LEA 373' FSL & 1166' FEL  
 W.O. # 16-373 LEASE: LUSK DEEP UNIT A SURVEY: N.M.P.M



LOCATION MAP

TOPO

05/18/2016

A.F

**CONCHO**

COG OPERATING, LLC



HARCROW SURVEYING, LLC.

2314 W. MAIN ST, ARTESIA, NM 88210  
 PH: (575) 746-2158 FAX: (575) 746-2158  
 c.harcrow@harcrowsurveying.com



# LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

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SEC: 18 TWP: 19 S. RGE: 32 E. ELEVATION: 3585.2'  
 STATE: NEW MEXICO COUNTY: LEA 373' FSL & 1166' FEL  
 W.O. # 16-373 LEASE: LUSK DEEP UNIT A SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.125 0.25 0.5 Miles 1 IN = 2,000 FT

LOCATION MAP

IMAGERY

05/18/2016

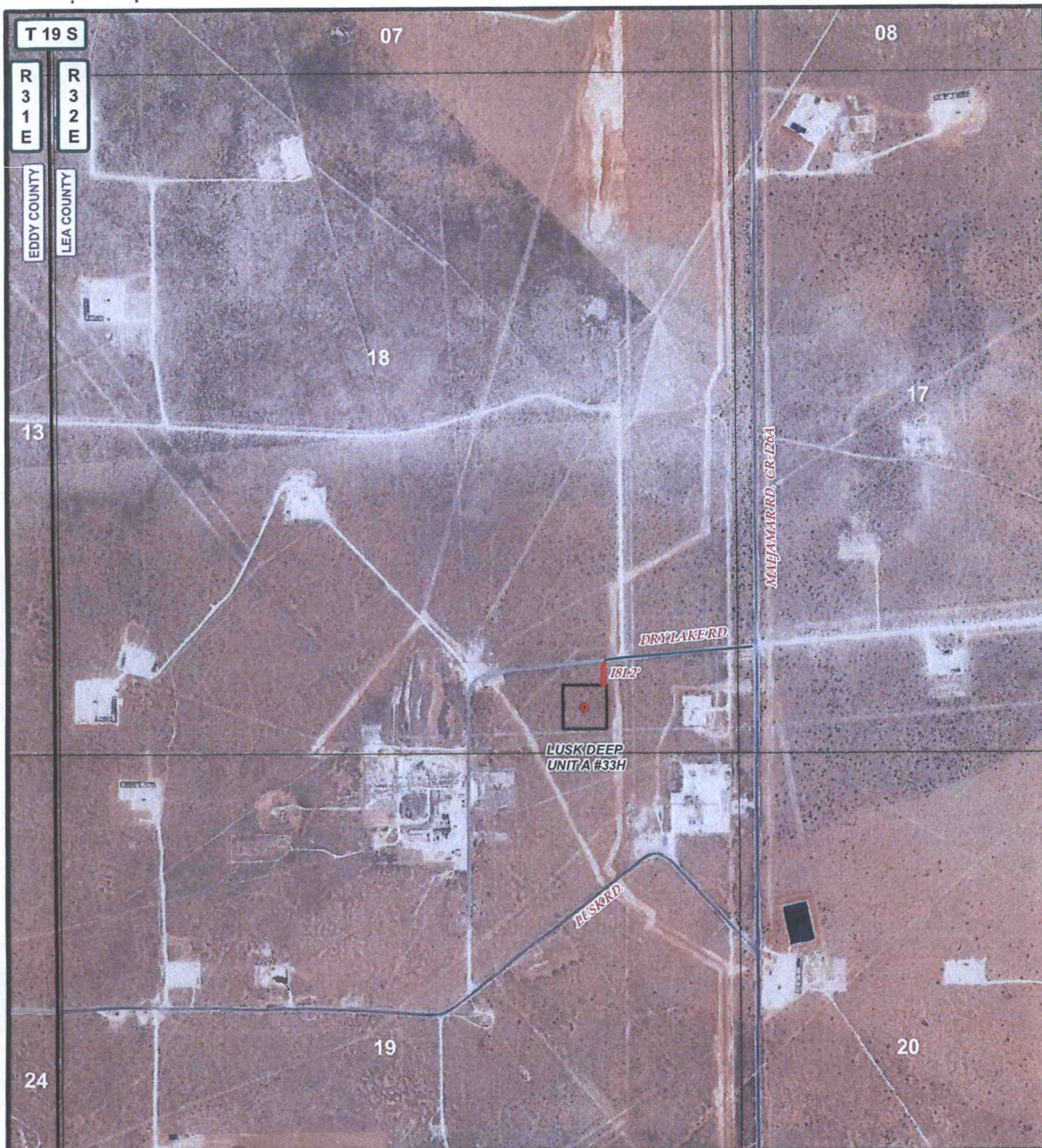
A.F



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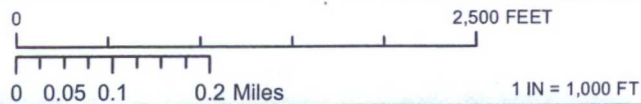


# LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

## LUSK DEEP UNIT A #33H

SEC: 18 TWP: 19 S. RGE: 32 E. ELEVATION: 3585.2'  
 STATE: NEW MEXICO COUNTY: LEA 373' FSL & 1166' FEL  
 W.O. # 16-373 LEASE: LUSK DEEP UNIT A SURVEY: N.M.P.M



LOCATION MAP IMAGERY ROAD 05/18/2016 A.F

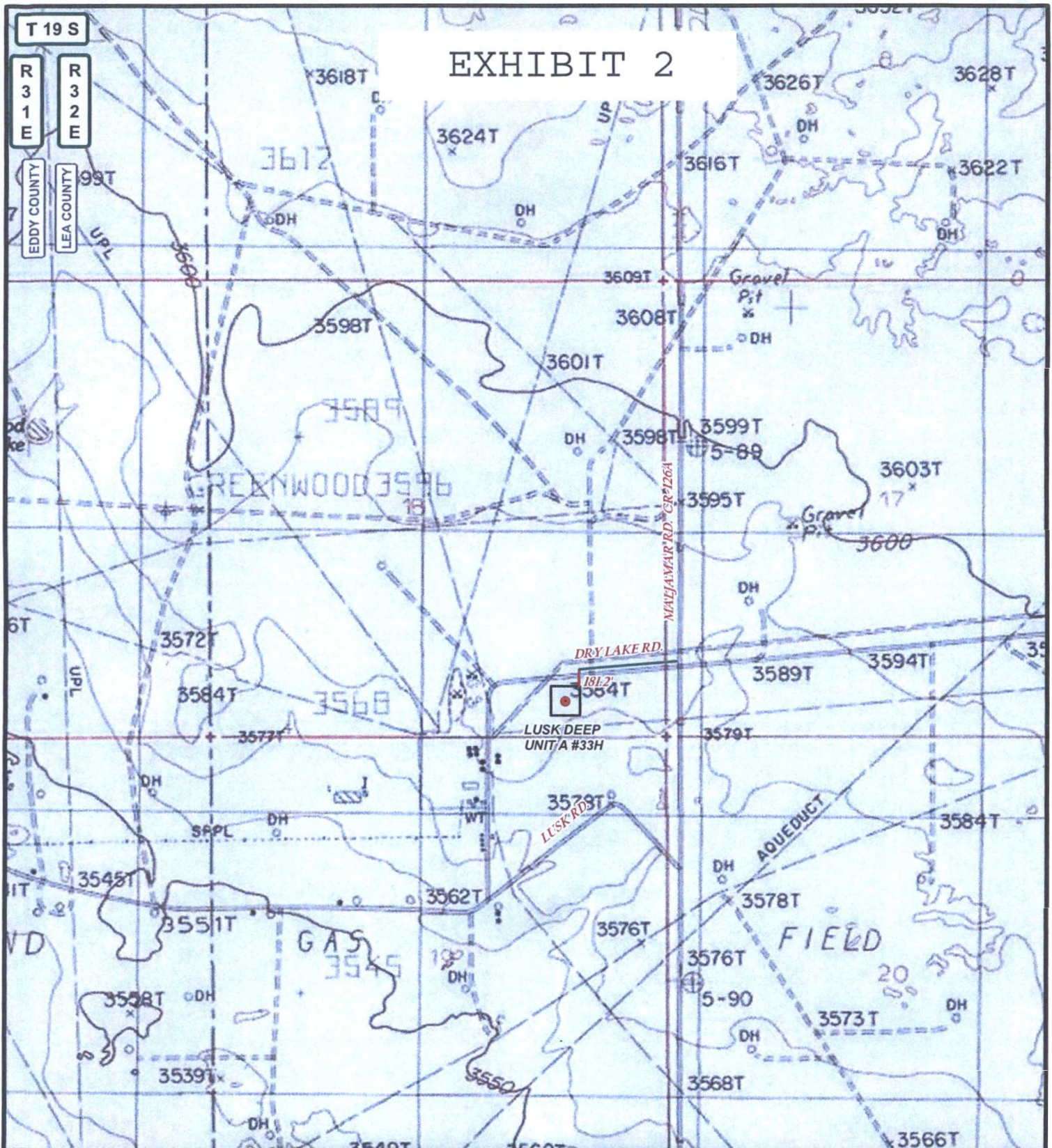


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# EXHIBIT 2



## LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

## LUSK DEEP UNIT A #33H

SEC: 18 TWP: 19 S. RGE: 32 E. ELEVATION: 3585.2'  
 STATE: NEW MEXICO COUNTY: LEA 373' FSL & 1166' FEL  
 W.O. # 16-373 LEASE: LUSK DEEP UNIT A SURVEY: N.M.P.M

0 2,500 FEET

0 0.1 0.2 0.4 Miles

1 IN = 1,500 FT

LOCATION MAP

TOPO ROAD

05/18/2016

A.F

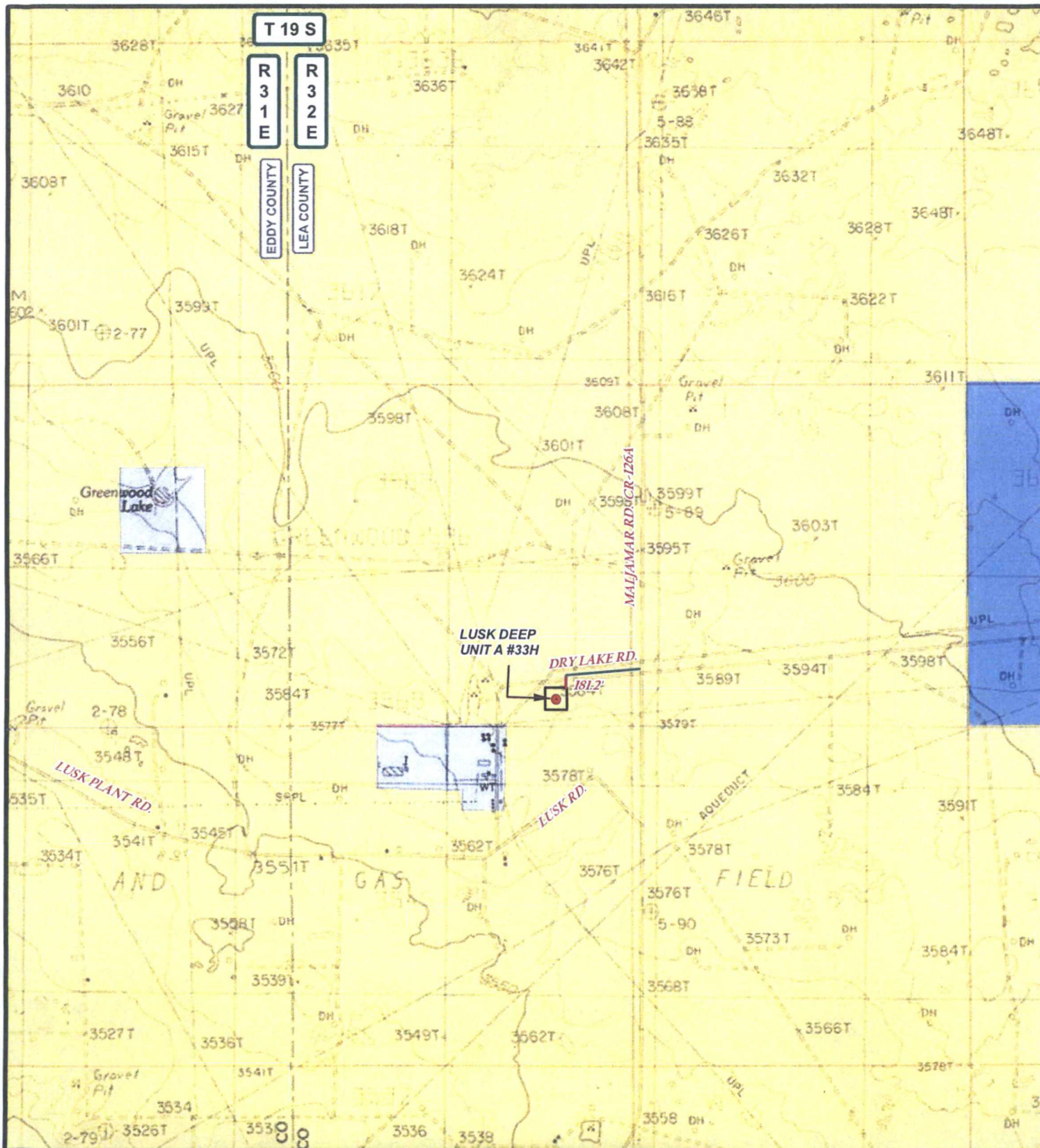
**CONCHO**

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 c.harcrow@harcrowsurveying.com



# LEGEND

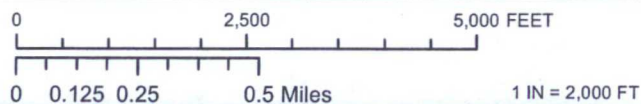
- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD
- PRIVATE
- STATE OF NM
- US BLM

## LUSK DEEP UNIT A #33H

SEC: 18 TWP: 19 S. RGE: 32 E. ELEVATION: 3585.2'

STATE: NEW MEXICO COUNTY: LEA 373' FSL & 1166' FEL

W.O. # 16-373 LEASE: LUSK DEEP UNIT A SURVEY: N.M.P.M



LOCATION MAP LAND STATUS 05/18/2016 A.F



COG OPERATING, LLC



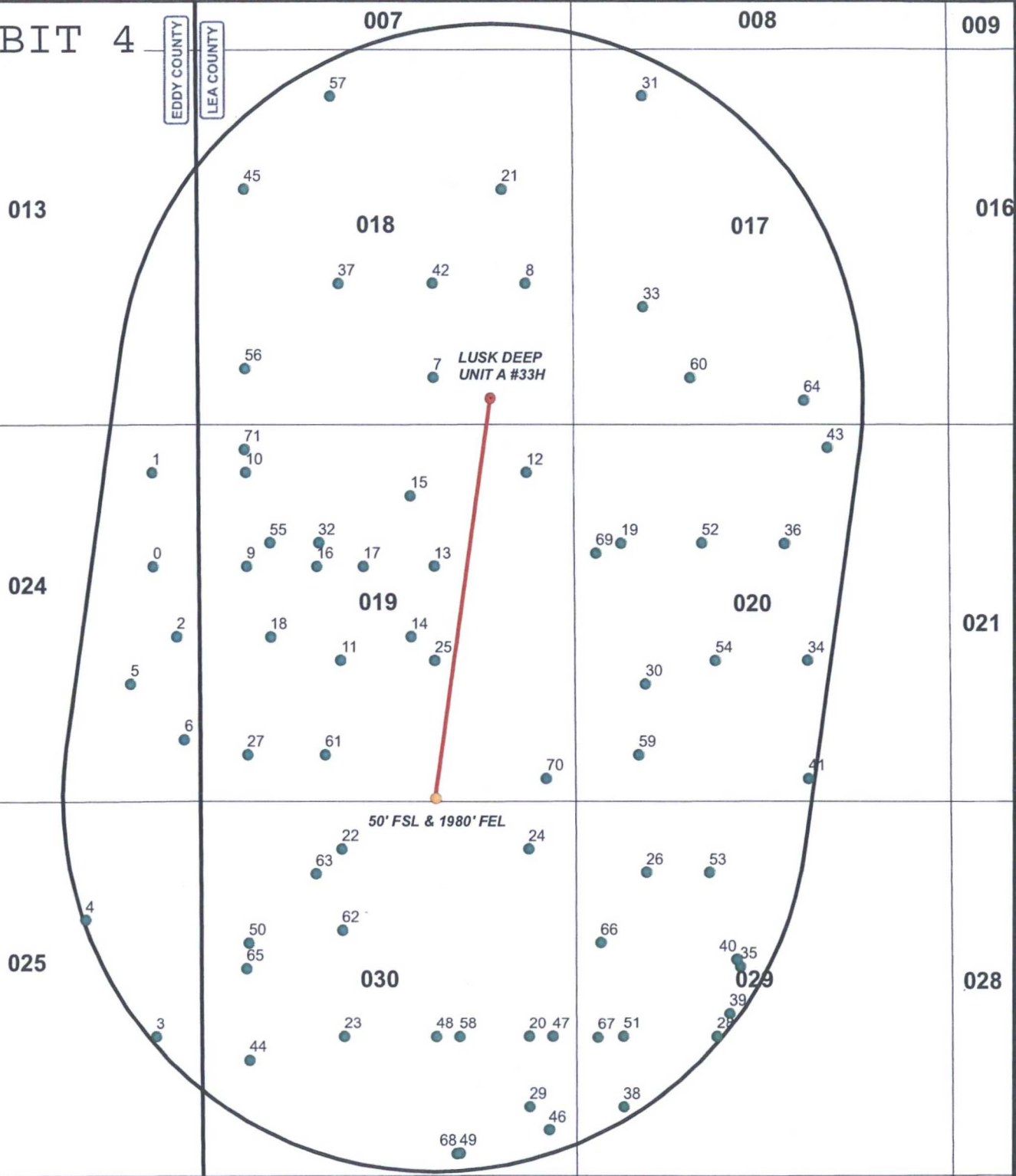
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# EXHIBIT 4

EDDY COUNTY

LEA COUNTY



DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH APRIL 29, 2016.

## LEGEND

- WELL
- BOTTOMHOLE
- WELLS WITHIN 1 MI.
- 1 MI. BUFFER

## LUSK DEEP UNIT A #33H

|                   |                         |                      |                    |
|-------------------|-------------------------|----------------------|--------------------|
| SEC: 19           | TWP: 19 S.              | RGE: 32 E.           | ELEVATION: 3585.2' |
| STATE: NEW MEXICO | COUNTY: LEA             | 373' FSL & 1166' FEL |                    |
| W.O. # 16-373     | LEASE: LUSK DEEP UNIT A | SURVEY: N.M.P.M      |                    |

0 2,500 5,000 FEET

0 0.125 0.25 0.5 Miles 1 IN = 2,000 FT

1 MILE MAP

05/18/2016

A.F



COG OPERATING, LLC



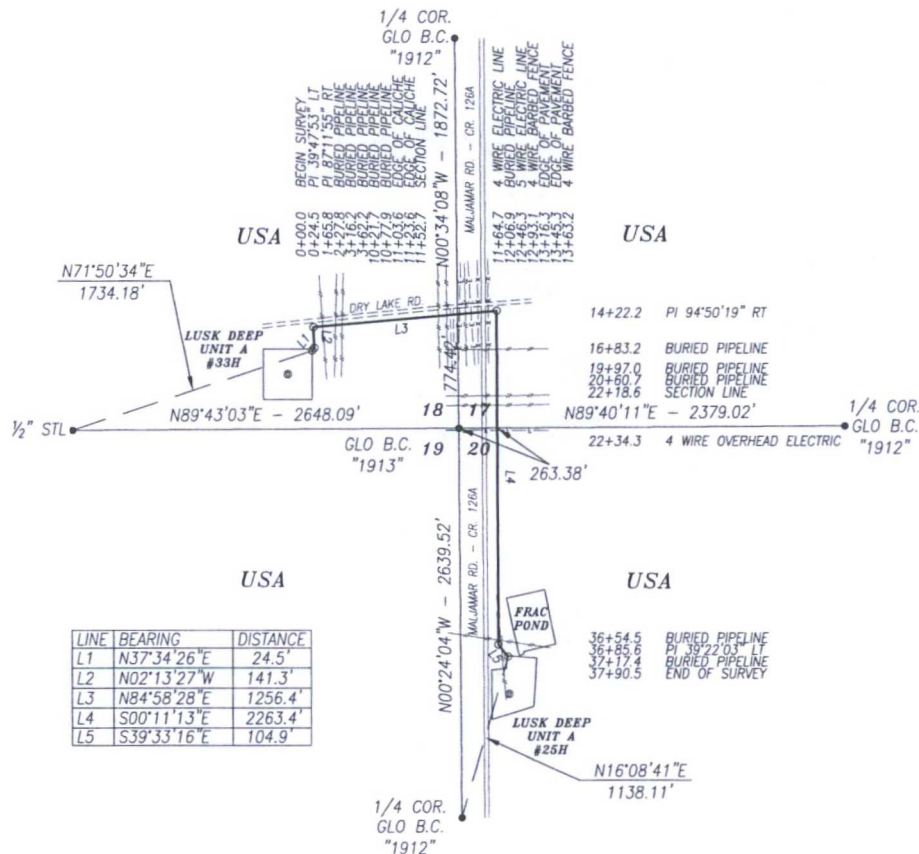
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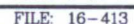


|          |                   |                       |           |             |            |    |       |     |        |       |                                  |     |   |        |
|----------|-------------------|-----------------------|-----------|-------------|------------|----|-------|-----|--------|-------|----------------------------------|-----|---|--------|
| 69 Point | COG OPERATING LLC | LUSK DEEP UNIT A 025H | 32.648292 | -103.795946 | 3002540193 | 20 | 19.05 | 32E | 1800 N | 330 W | 9320 New (Not drilled or compl)  | Lea | F | <Null> |
| 70 Point | COG OPERATING LLC | LUSK DEEP UNIT A 023H | 32.639622 | -103.798259 | 3002540260 | 19 | 19.05 | 32E | 330 S  | 380 E | 13595 New (Not drilled or compl) | Lea | F | <Null> |
| 71 Point | COG OPERATING LLC | LUSK DEEP UNIT A 024H | 32.65234  | -103.81211  | 3002540863 | 19 | 19.05 | 32E | 330 N  | 660 W | 9276 Active                      | Lea | F | <Null> |

A 4" SURFACE POLY FLOWLINE & A 4" SURFACE POLY GAS LINE FROM  
LUSK DEEP UNIT A #33H TO LUSK DEEP UNIT A #25H IN  
SECTIONS 17, 18 & 20, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.



A STRIP OF LAND 30.0 FEET WIDE AND 3790.5 FEET OR 229.73 RODS OR 0.718 MILES IN LENGTH CROSSING FED LAND IN SECTIONS 17, 18 & 20, TOWNSHIP 19 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.



Chad Harcrow  
CHAD HARCROW N.M.P.S. NO. 17777

6/13/16  
DATE

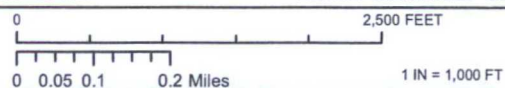


# **LEGEND**

- WELL
- WELLPAD
- PIPELINE

## **LUSK DEEP UNIT A #33H & 25H GAS LINE & FLOWLINE**

SECTION: 17, 18 & 20 TOWNSHIP: 19 S. RANGE: 32 E.  
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M  
 W.O. # 16-413 LEASE: LUSK DEEP UNIT A



PIPELINE OVERVIEW

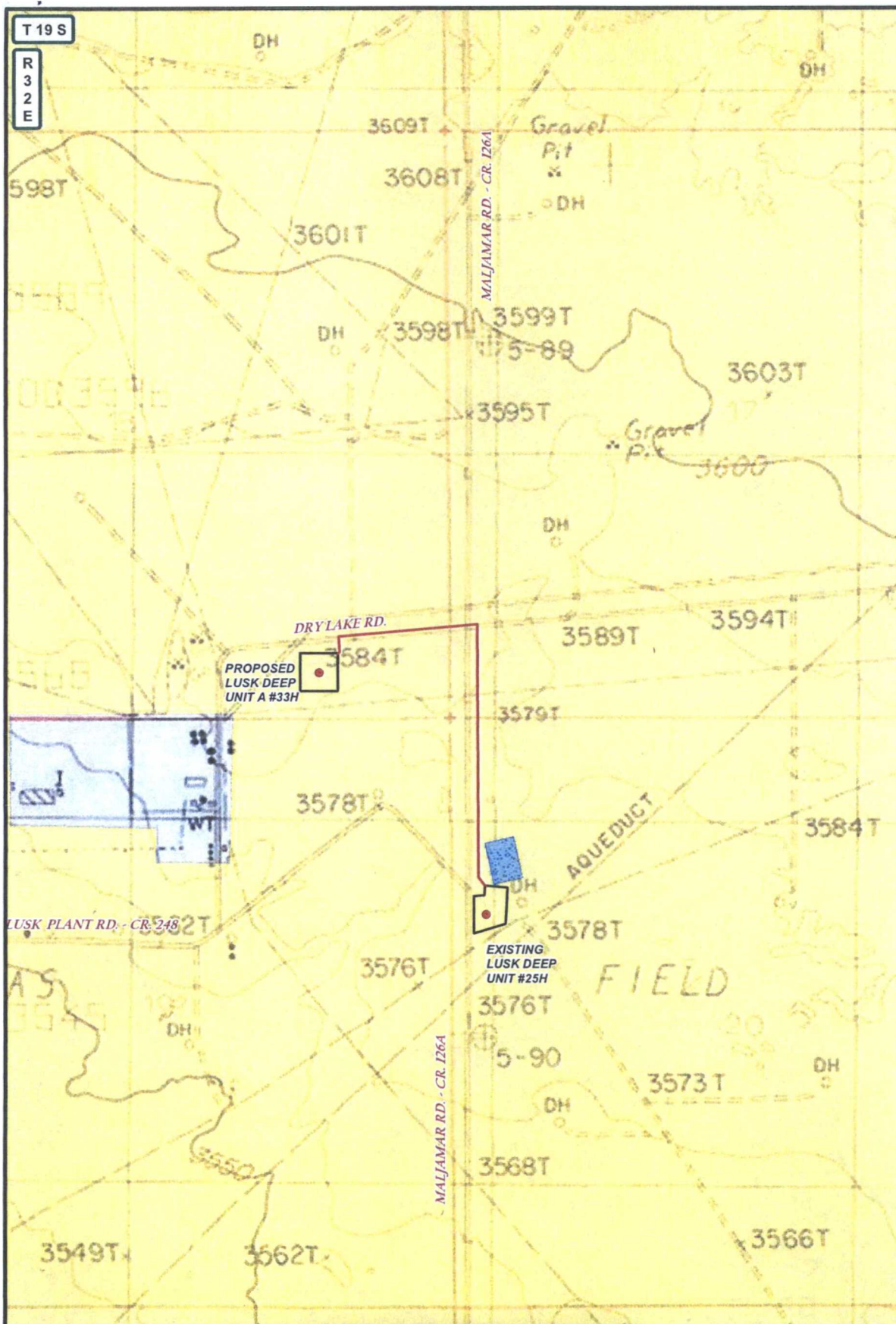
IMAGERY

06/13/2016

C.H.

**CONCHO**  
 COG OPERATING, LLC

**HARCROW SURVEYING, LLC.**  
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|                                                                                              |  |                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LEGEND</b><br>• WELL<br>□ WELLPAD<br>— PIPELINE<br>□ PRIVATE<br>■ STATE OF NM<br>■ US BLM |  | <b>LUSK DEEP UNIT A #33H &amp; 25H GAS LINE &amp; FLOWLINE</b><br>SECTION: 17, 18 & 20 TOWNSHIP: 19 S. RANGE: 32 E.<br>STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.<br>W.O. # 16-413 LEASE: LUSK DEEP UNIT A<br>0 0.05 0.1 0.2 Miles 1 IN = 1,000 FT<br>PIPELINE OVERVIEW LAND STATUS 06/13/2016 C.H. |  | <br><b>CONCHO</b><br>COG OPERATING, LLC<br><br><b>HARCROW SURVEYING, LLC.</b><br>2314 W. MAIN ST. ARTESIA, NM 88210<br>PH: (575) 746-2158 FAX: (575) 746-2158<br>c.harcrow@harcrowsurveying.com |
|----------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|