<u>District I</u> 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 Road, Aziec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

Date: 1/29/2014

Phone: 575-748-6945

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

### State of New Mexico

Form C-101 Revised July 18, 2013

### **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

| R | EC  | EI | VE   | D |
|---|-----|----|------|---|
|   | FEB | 04 | 2014 |   |

| Y DDL .                       | ፣ ር ል ም፣ ር                                       | מותאו והיי                                    | o de do a su su come de la come d | ווופת אי  | TOTO TOTAL                        | י אַ יִשַּער װִי אַ רִשּער מּיי בּער י           | NMOC.                                |                             | The state of the s |
|-------------------------------|--|---|--|---|-----------------------------------|--|--------------------------------------|-----------------------------|--|
| AFILE                         | ICALIO   | MFUR  | Operator Name a  |   | KE-EIVER                          | ER, DEEPEN                                       |                                      | COGRID No                   |  |
| COG Operating LLC             |  |   |  |   |                                   |  | 22913                                |                             |  |
|                               |  |   | 2208 West Ma<br>Artesia, NM  | aiñ Street  |                                   |  | 2/-01                                | 22913<br>API Numشع ر        |  |
| * Prog                        | regy copy.                                       | 7 1   | f 14 + 1,  |   | - Property Name                   |  | 100-01                               | 5                           | 0. Well No   |
|                               | TUIL   | 4   |  |   | SRO State Com                     | 1  |                                      |                             | 33H ~  |
| ·                             |  | ·   |  | <sup>7,</sup> St  | urface Locat                      | ion  |                                      |                             |  |
| UL-Loi                        | Section  | Township                                      | Range  | Lot kin   | Feet from                         | N/S Line   | Feet From                            | E/W Line                    | 1 '  |
| 4                             | 4  | 265   | 28E  | 4   | 1200                              | Nonh   | 660                                  | West                        | Eddy   |
|                               |  | T   | * Proposed Bo  | 1   | T                                 |  | т т                                  |                             |  |
| UL - Loi<br>M                 | Section 9  | Township<br>26S                               | Range<br>28E   | Lot Idn<br>M  | Feet from                         | N/S Line   | Feet From                            | E/W Line                    | ,  |
| 141                           |  | 405   | 200  |   | 330                               | South  | 660                                  | West                        | Eddy   |
| ·                             |  |   | ·  | 9. Pe   | ool Informat                      | tion   |                                      |                             | ·  |
|                               |  |   |  | Pool  | ol Name                           |  |                                      |                             | Pool Code  |
| Hay Hollow; Bu                | Jone Spring                                      |   |  |   | <del></del>                       |  |                                      |                             | 30215  |
|                               |  |   |  | Additior  | nal Well Info                     | rmation  |                                      |                             |  |
|                               | ork Type   | 1   | 12. Well Type  |   | 13 Cable/Rotary                   |  | 14 Lease Type                        | 15                          | Ground Level Elevation   |
|                               | w Well<br>Multiple                               |   | Oil 17 Proposed Depth  |   | <sup>18</sup> Formation           | <del></del>                                      | State  19 Contractor                 | <del></del>                 | 2991.4*<br>20 Spud Date  |
|                               | N .  |   | 16812  |   | Bone Spring                       | ng .   | ···                                  |                             | 2/6/2014   |
| Depth to Gro                  | ound water                                       |   | Distar   | nce from nearest  | fresh water well                  |  | Distance to                          | to nearest'surf             | face water   |
| ⊠We will be                   | : using a clos                                   | sed-loop syst                                 | item in lieu of lined  |   | asing and Ce                      | ement Program                                    |                                      |                             |  |
| Туре                          | Hole   | e Size  | Casing Size  | Casing We   |                                   | Setting Depth                                    | Sacks of Co                          | ement                       | Estimated TOC  |
| Surface                       | !  | 17.5  | 13.375   | 48  |                                   | 350  | 365                                  |                             | L  |
| Intrmd                        | 12   | 2.25  | 9.625  | 36  |                                   | 2420   | 825                                  |                             |  |
| Production                    | n 7.5  | .875  | 5.5  | 17  |                                   | 16812  | 2780                                 | )                           | 2120   |
|                               | ***************************************          |   | Casin  | g/Cement Pr   | rogram: Add                       | litional Comment                                 | ts                                   |                             |  |
| Class C w/ :<br>Drill 12-1/4" | ' 2% CaCl₂ to<br>i" hote to ~2d<br>vertical hote | to cement to<br>1420' with sa<br>e, curve and | to surface, if necestaturated brine wat adulateral to 16812'   | essary.<br>Iter. Run 9-5/8"<br>2" with cut brine.   | 3" 36# J55 LTC<br>9. Run 5-1/2" 1 | casing to TD and c                               | cement to surface in                 | n one stage.                | . Will use 1" tubing and a. ent in one stage bringing  |
|                               |  |   | <u> </u>   | Proposed Bio  | owout Prever                      | ention Program                                   |                                      |                             |  |
|                               | Турс   |   | v v  | Working Pressure  |                                   | Test Pressure                                    |                                      | Manufacturer                |  |
| Double Ram 3000               |  |   |  | 3000 Cameron  |                                   |  | Cameron                              |                             |  |
|                               |  |   |  |   |                                   |  | <u></u>                              |                             | Calleron   |
| best of my kn                 | nowledge an                                      | nd belief.<br>have compli                     | on given above is to<br>ied with 19.15.14.9<br>cable.  |   | J and/or                          | OIL pproved By:                                  | CONSERVATION OF SHAPE                | ion div                     | ISION  |
| Printed name                  | e: Mayte R                                       | leyes   |  |   | Ti                                | itle:  | Geol                                 | nois                        | <b>\$</b> 00   |
| Title: Regu                   |  |   | VIAte  | 170,0   |                                   | pproved Date: 2                                  | 11-7/1/4 Ex                          | piration Date               | 2-4-701  |
|                               | ress: mreves l                                   | The state of the                              | 110  | 148   |                                   | proved Date.                                     | 10011-                               | Miduvii Dec                 | A /  |
| Pannall America               | ACC. MINAMER                                     | . (OCONCHO CA                                 | AM .   | A Contract of the Contract of | The second second second          | and the first control of the control of the con- | العامل والمراز عامران عافران والمائد | e filosoficio e filosoficio | ال المعادية والمعادية والمائم والأحادية أوافيا   |

Conditions of Approval Attached

DISTRICT I DISTRICT II

1023 N. PREDICTI DR. HOBRS. NM BAR40 Energy, Minerals & Natural Resources Department CONSERVATION DIVISION OIL

Form C-102 Revised August 1, 2011 Submit one copy to apprepriate

1301 W. GRAND AVENUZ, ARTESIA, Nº 88210 Phone: (676) 748-1283 Par: (675) 748-9720 DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (805) 334-6176 Fox: (805) 334-6170

11885 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

State of New Mexico

AMENDED REPORT

DISTRICT IV 11686 B. ST. FRANCIS DE., SANTA FR. NW 87803 Phone: (505) 478-3460 Fax: (505) 478-3462

Dedicated Acres

320

Joint or Infill

Consolidation Code

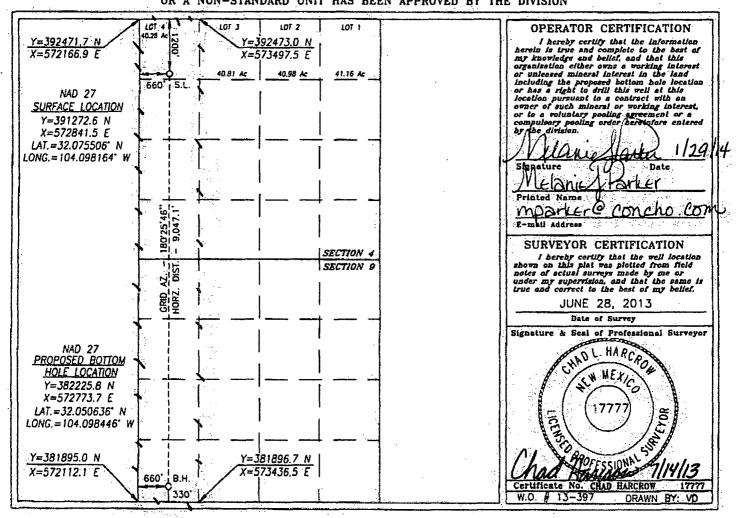
WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30215 30-015-Hay Hollow; Bone Spring Property Name Well Number Property Code SROSTATE COM 33H OGRID No. Operator Name Elevation 229137 COG OPERATING, LLC 2991.4

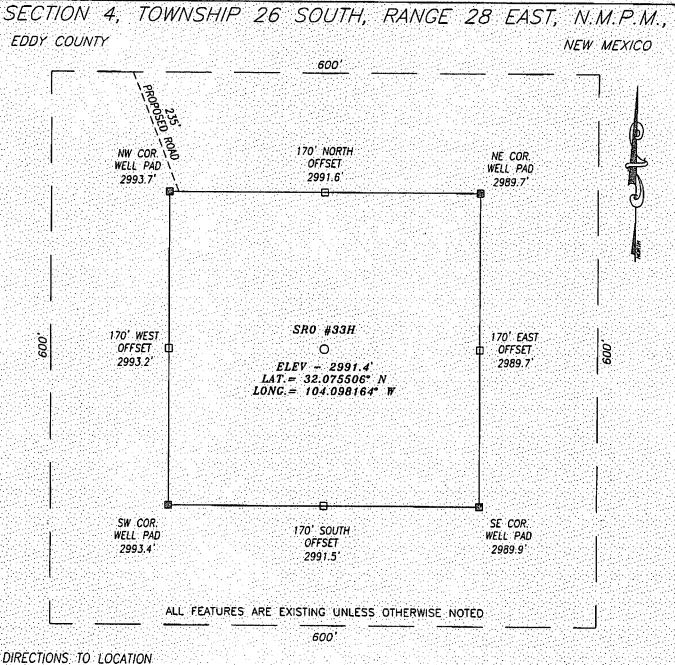
### Surface Location

| UL or lot No.                                  | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|--|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 4  | 4       | 26-S     | 28-E  |         | 1200          | NORTH            | 660           | WEST           | EDDY   |
| 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 |
| М  | l a     | 26-S     | 28-E  |         | 330           | SOUTH            | 660           | WEST           | EDDY   |

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

Order No.





HEADING SOUTH ON HWY 285 TURN RIGHT (WEST) ONTO CR #724 (WHITE CITY RD.) AND GO APPROX. 2.0 MILES; THEN TURN RIGHT (NORTH) ONTO CALICHE RD. AND GO APPROX 0.9 MILES TO EXISTING SRO ST UNIT #1H WELL PAD; GO TO SOUTHEAST PAD CORNER; THEN PROPOSED WELL IS APPROX. 460 FEET SOUTHEAST.

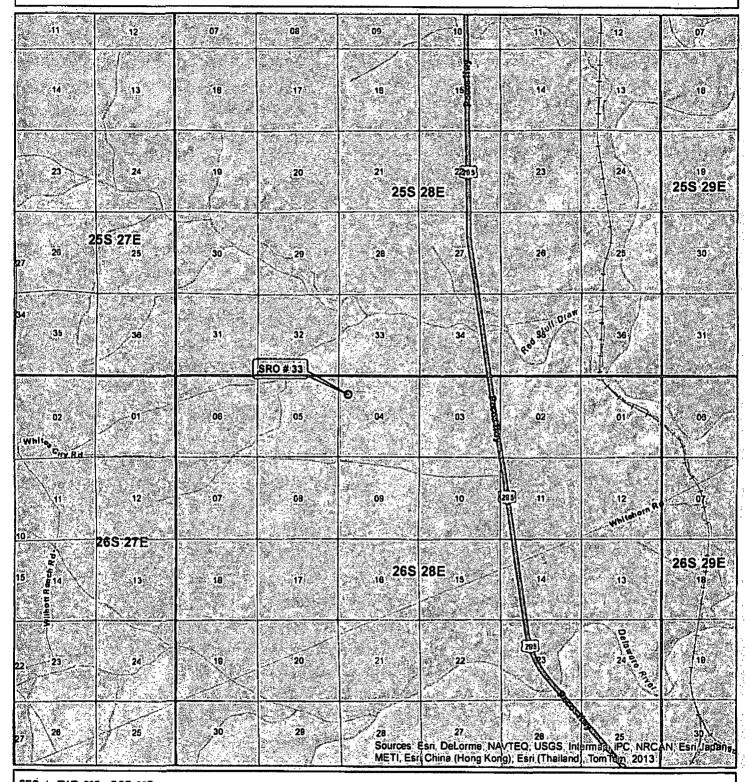
HARCROW SURVEYING, LLC

1107 WATSON, ARTESIA, N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad\_harcrow77@yahoo.com



| 100      | 0  | 100  | 200 Feet                     |
|----------|--|--|------------------------------|
|          | Scale: 1                                     | ' <i>"=100</i> '   |                              |
| (        | COG OPE                                      | RATING, I  | LC                           |
| AND 660  | ED 1200 FEET<br>FEET FROM TH<br>IP 28 SOUTH, | #33H WELL<br>FROM THE NO<br>IE WEST LINE O<br>RANGE 28 EAS<br>TY, NEW MEXICO | OF SECTION 4,<br>T, N.M.P.M. |
| SURVEY   | DATE: 06/28                                  | /2013 PAGE   | 1 OF 1                       |
|          | DATE: 07/03                                  |  |                              |
| APPROVED | BY: CH DRAW                                  | N BY: VD FILE  | : 13-397                     |

# **VICINITY MAP**



SEC. 4, TWP: 26S, RGE, 28E

SURVEY: N.M.P.M

COUNTY: EDDY STATE: NEW MEXICO

DESCRIPTION: SRO #33H 1200' FNL, 660' FWL

ELEVATION: 2991.4

OPERATOR: COG OPERATING LLC

LEASE: SRO

W.O. # 13-397

1 IN = 6,000 FT

0 0.5 MILES

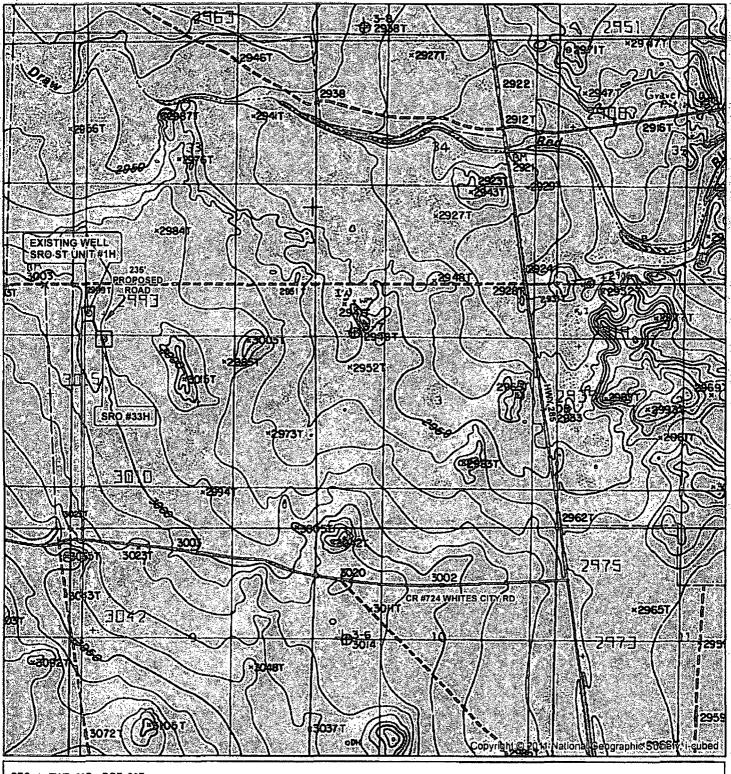
O WELL
TOWNSHIP
SECTION

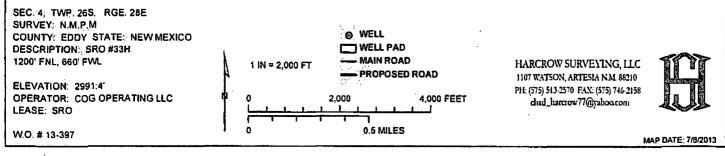
HARCROW SURVEYING, LLC 1107 WATSON, ARTESIA NM. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad\_harcrow77@yahoo.com



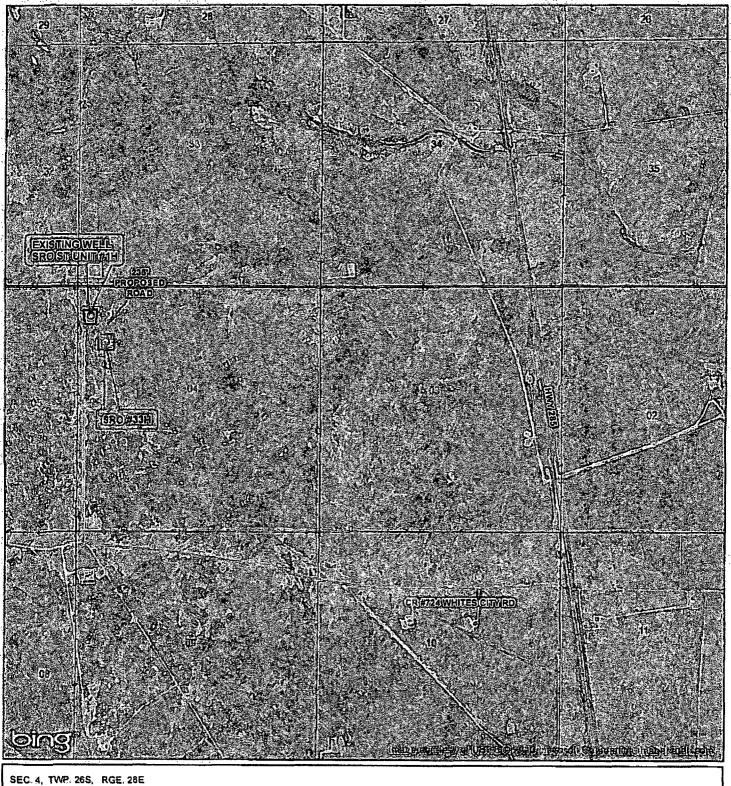
MAP DATE: 7/8/2013

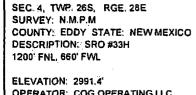
# **LOCATION VERIFICATION MAP**





# **LOCATION VERIFICATION MAP**

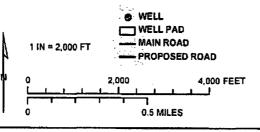




OPERATOR: COG OPERATING LLC

LEASE: SRO

W.O. # 13-397



HARCROW SURVEYING, LLC 1107 WATSON, ARTESIA N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 dud\_harcrow77@yahoo.com



MAP DATE: 7/8/2013