

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

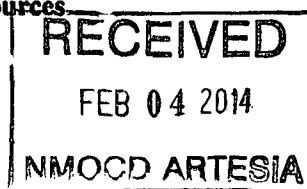
**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, 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 and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised July 18, 2013



**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<b>Operator Name and Address</b> COG Operating LLC 2208 West Main Street Artesia, NM 88210		<b>OGRID Number</b> 229137
<b>Property Code</b> 40179	<b>Property Name</b> SRO State Com	<b>Well No</b> 32H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
3C	4	26S	28E	3	1200	North	1980	West	Eddy

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	9	26S	28E	N	330	South	1980	West	Eddy

**9. Pool Information**

Pool Name	Pool Code
Hay Hollow; Bone Spring	30215

**Additional Well Information**

<b>11 Work Type</b> New Well	<b>12 Well Type</b> Oil	<b>13 Cable/Rotary</b>	<b>14 Lease Type</b> State	<b>15 Ground Level Elevation</b> 2996.2'
<b>16 Multiple</b> N	<b>17 Proposed Depth</b> 16832	<b>18 Formation</b> Bone Spring	<b>19 Contractor</b>	<b>20 Spud Date</b> 2/6/2014
<b>Depth to Ground water</b>		<b>Distance from nearest fresh water well</b>		<b>Distance to nearest surface water</b>

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	48	350	365	
Intermd	12.25	9.625	36	2440	830	
Production	7.875	5.5	17	16832	2780	2140

**Casing/Cement Program: Additional Comments**

Drill 17-1/2" hole to ~350' w/ fresh water spud mud. Run 13-3/8" 48# H40 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl<sub>2</sub> to cement to surface, if necessary.  
Drill 12-1/4" hole to ~2440' with saturated brine water. Run 9-5/8" 36# J55 LTC casing to TD and cement to surface in one stage.  
Drill 7-7/8" vertical hole, curve and lateral to 16832' with cut brine. Run 5-1/2" 17# P110 Tenaris XP BTC casing to TD and cement in one stage bringing TOC to 2140' (300' overlap).

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

**23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.**  
I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

Printed name: Mayte Reyes

Title: Regulatory Analyst

E-mail Address: mreyes1@concho.com

Date: 1/29/2014

Phone: 575-748-6945

**OIL CONSERVATION DIVISION**

Approved By:

Title:

Approved Date: 2-4-2014

Expiration Date: 2-4-2016

Conditions of Approval Attached

DISTRICT I  
1623 N. FRENCH DR., BOBBS, NM 86240  
Phone: (878) 333-6181 Fax: (878) 333-0780

DISTRICT II  
1361 W. GRAND AVENUE, ARTESIA, NM 88210  
Phone: (878) 746-1853 Fax: (878) 746-8720

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

DISTRICT IV  
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
11885 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-015- <b>42020</b>	Pool Code 30215	Pool Name Hay Hollow; Bone Spring
Property Code <b>40112</b>	Property Name SROSTATE COM	Well Number 32H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2996.2

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	4	26-S	28-E		1200	NORTH	1980	WEST	EDDY

**Bottom Hole Location If Different From Surface**

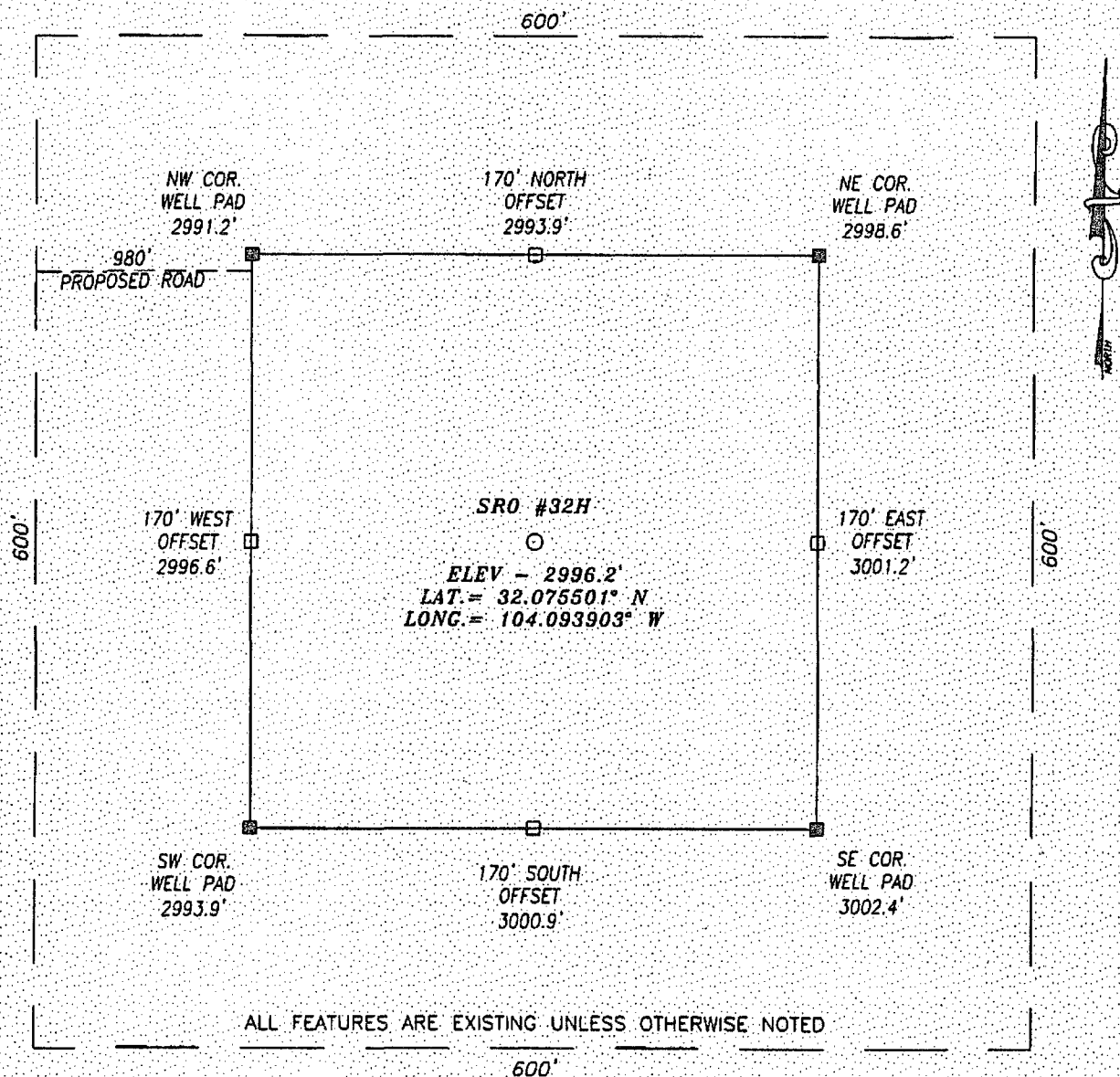
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	26-S	28-E		330	SOUTH	1980	WEST	EDDY

Dedicated Acres 320	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

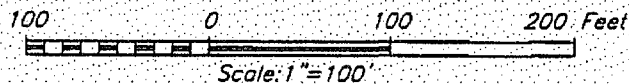
<p>NAD 27 <b>SURFACE LOCATION</b> Y=391273.8 N X=574161.2 E LAT.=32.075501° N LONG.=104.093903° W</p> <p>NAD 27 <b>PROPOSED BOTTOM HOLE LOCATION</b> Y=382227.6 N X=574093.7 E LAT.=32.050633° N LONG.=104.094186° W</p>	<p>LOT 4 40.28 Ac</p> <p>LOT 3 40.81 Ac</p> <p>LOT 2 40.98 Ac</p> <p>LOT 1 41.16 Ac</p> <p>Y=392473.0 N X=573497.5 E</p> <p>Y=392474.2 N X=574828.0 E</p> <p>1980'</p> <p>S.L.</p> <p>GRID AZ. - 180°25'39"</p> <p>HORZ. DIST. - 9,046.5'</p> <p>SECTION 4</p> <p>SECTION 9</p> <p>Y=381896.7 N X=573436.5 E</p> <p>Y=381898.5 N X=574761.0 E</p> <p>1980'</p> <p>B.H.</p> <p>330'</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>Melanie J. Parker</i> 1/29/14 Signature Date Printed Name E-mail Address mparker@concho.com</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>JUNE 28, 2013 Date of Survey</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><b>CHAD L. HARCROW</b> NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR</p> <p><i>Chad L. Harcrow</i> 7/15/13 Certificate No. CHAD HARCROW 17777 W.O. # 13-398 DRAWN BY: VD</p>
--	--	--

SECTION 4, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,  
EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

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. 1600 FEET SOUTHEAST.



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



**COG OPERATING, LLC**

SRO #32H WELL  
LOCATED 1200 FEET FROM THE NORTH LINE  
AND 1980 FEET FROM THE WEST LINE OF SECTION 4,  
TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO

SURVEY DATE: 06/28/2013

PAGE: 1 OF 1

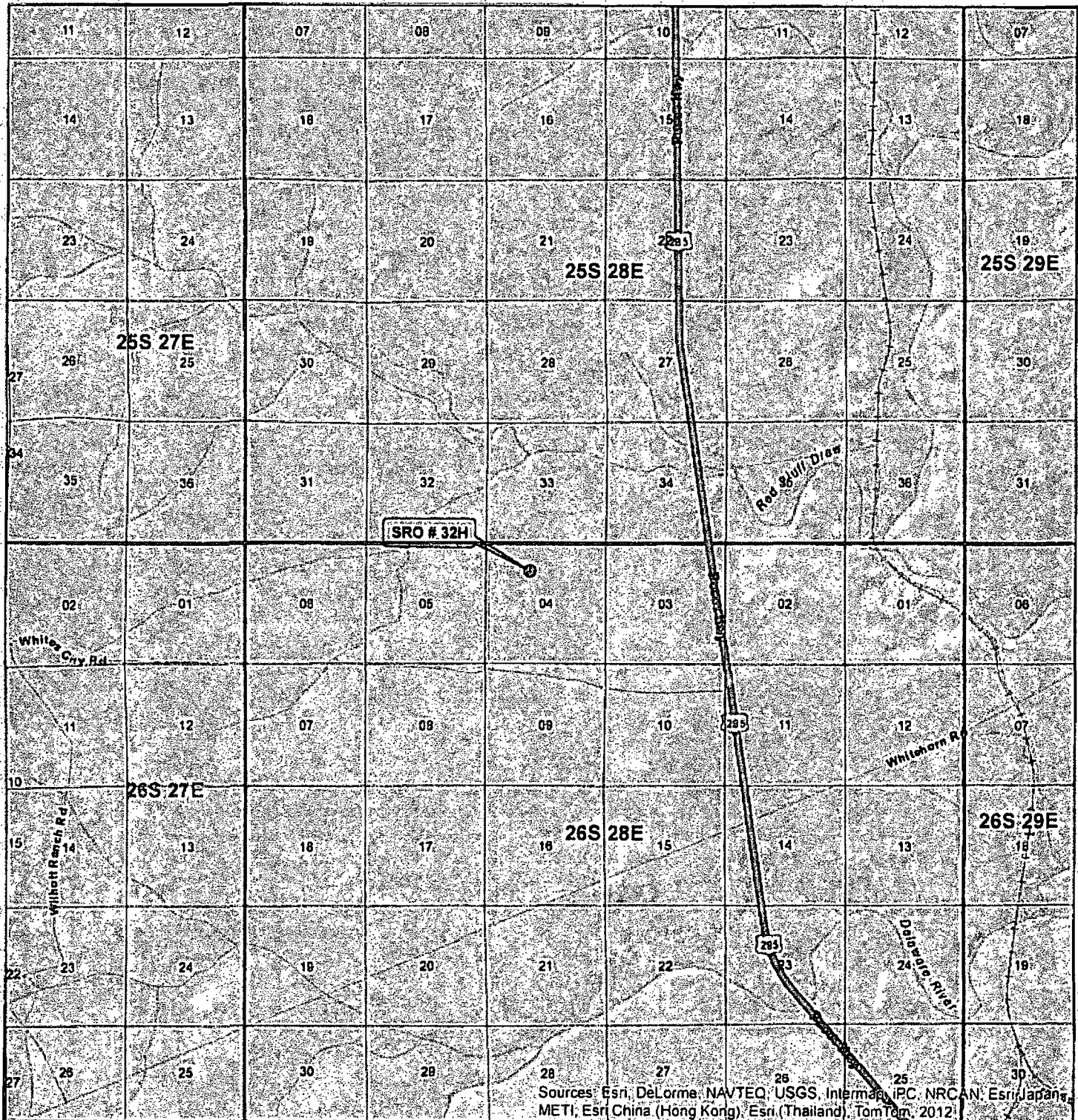
DRAFTING DATE: 07/03/2013

APPROVED BY: CH

DRAWN BY: VD

FILE: 13-398

# VICINITY MAP



SEC. 4, TWP. 26S, RGE. 28E  
 SURVEY: N.M.P.M  
 COUNTY: EDDY STATE: NEW MEXICO  
 DESCRIPTION: SRO #32H  
 1200' FNL, 1980' FWL

ELEVATION: 2996.2'  
 OPERATOR: COG OPERATING LLC  
 LEASE: SRO

W.O. # 13-398



1 IN = 8,000 FT

0 0.5 MILES

- WELL
- ▭ TOWNSHIP
- ▭ SECTION

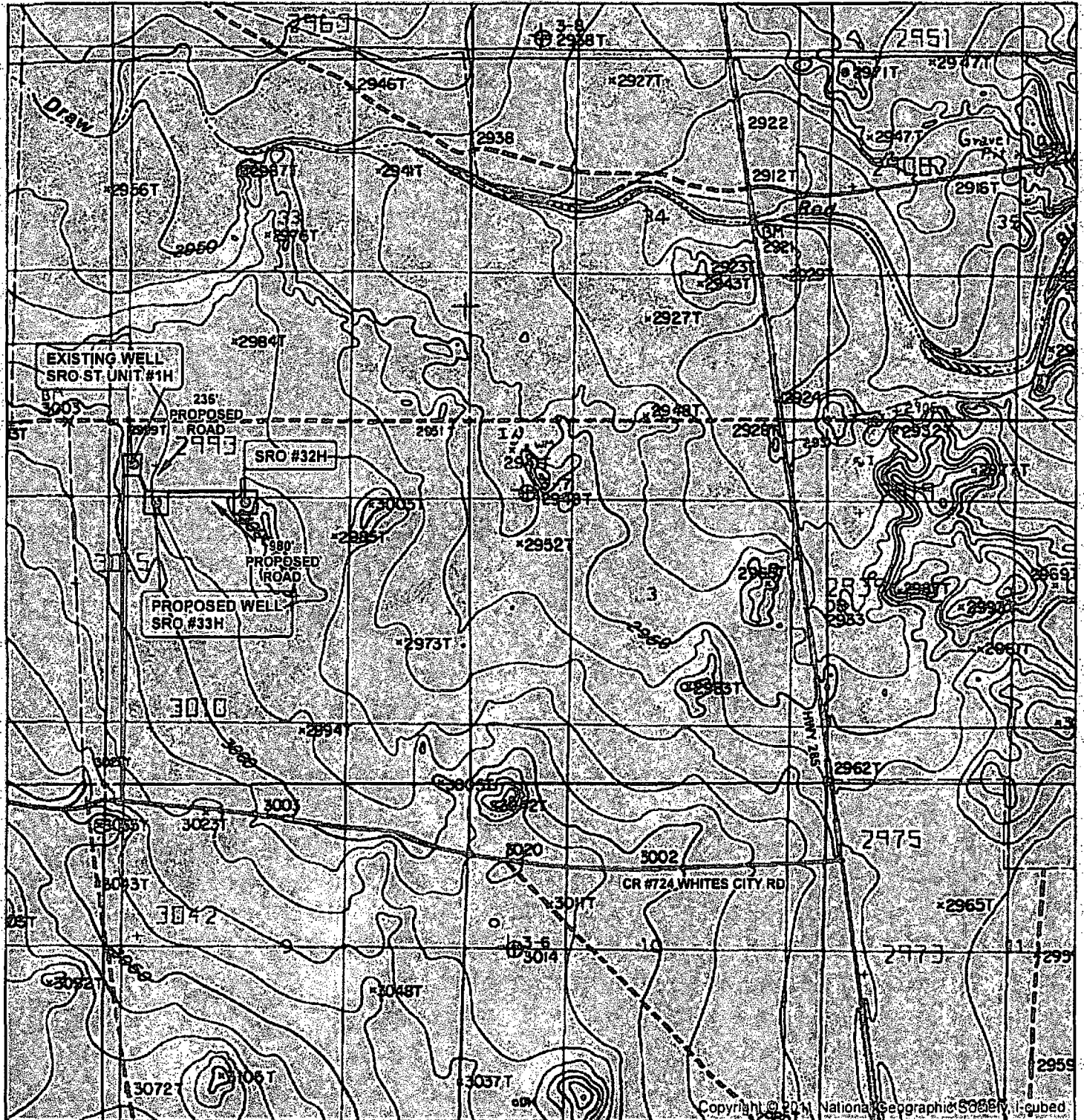
HARCROW SURVEYING, LLC  
 1107 WATSON, ARTESIA NM 88210  
 PH: (575) 513-2570 FAX: (575) 746-2158  
 chad\_harcrow77@yahoo.com



MAP DATE: 7/8/2013



# LOCATION VERIFICATION MAP



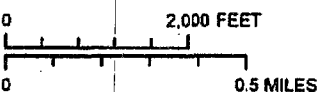
SEC. 4, TWP. 26S, RGE. 28E  
 SURVEY: N.M.P.M  
 COUNTY: EDDY STATE: NEW MEXICO  
 DESCRIPTION: SRO #32H  
 1200' FNL, 1980' FWL

ELEVATION: 2996.2'  
 OPERATOR: COG OPERATING LLC  
 LEASE: SRO

W.O. # 13-398

- WELL
- WELL PAD
- MAIN ROAD
- - - PROPOSED ROAD

1 IN = 2,000 FT

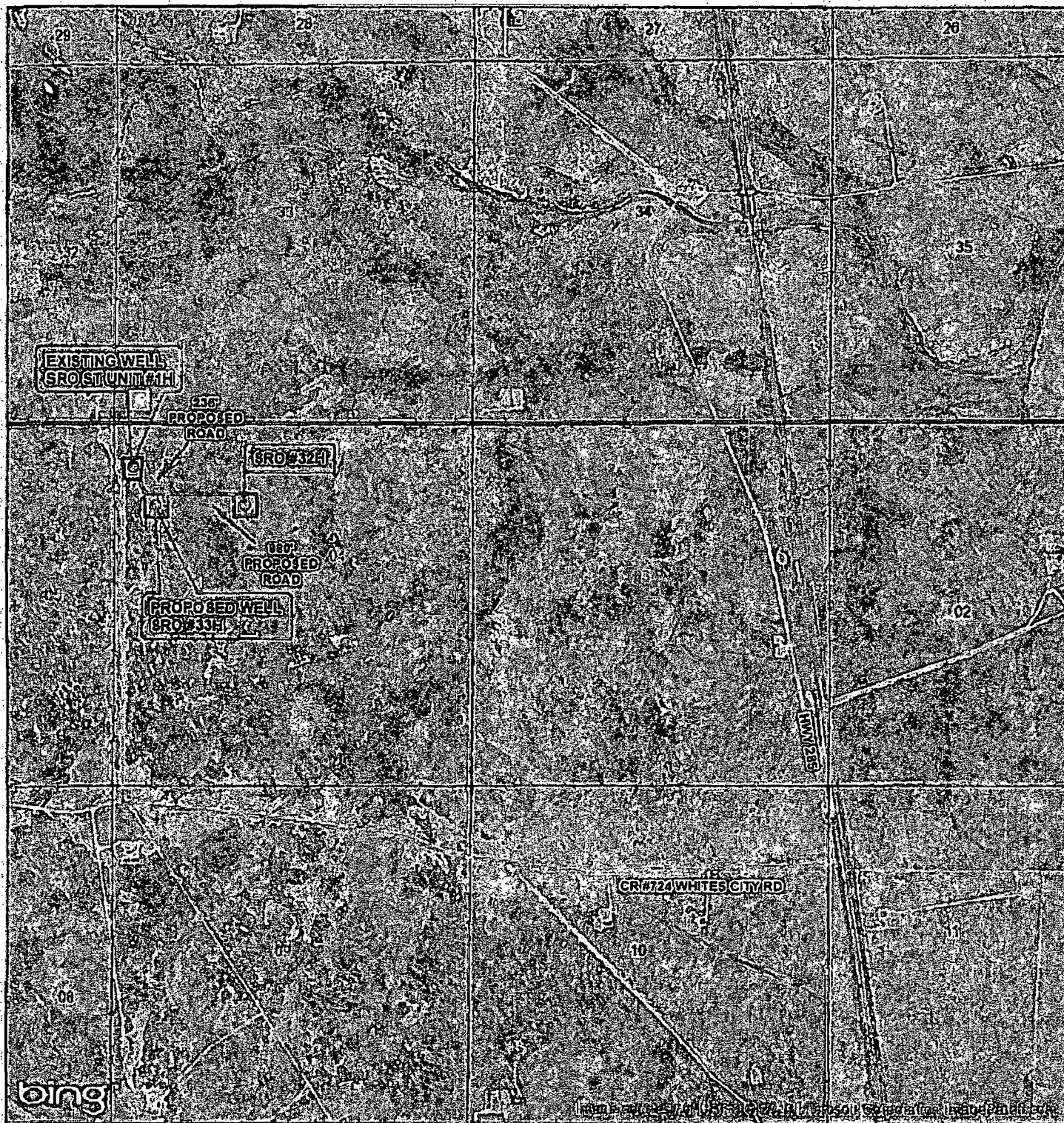


HARCROW SURVEYING, LLC  
 1107 WATSON, ARTESIA NAL 88210  
 PH: (575) 513-2570 FAX: (575) 746-2158  
 chad\_harcrow77@yahoo.com



MAP DATE: 7/8/2013

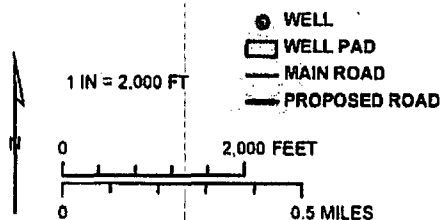
# LOCATION VERIFICATION MAP



SEC. 4. TWP. 26S. RGE. 28E  
 SURVEY: N.M.P.M  
 COUNTY: EDDY STATE: NEW MEXICO  
 DESCRIPTION: SRO #32H  
 1200' FNL, 1980' FWL

ELEVATION: 2996.2'  
 OPERATOR: COG OPERATING LLC  
 LEASE: SRO

W.O. # 13-398



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



MAP DATE: 7/8/2013