

**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

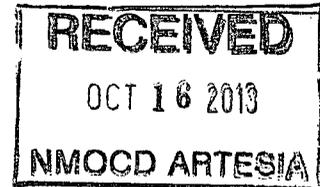
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101  
Revised July 18, 2013

Energy Minerals and Natural Resources

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



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

Operator Name and Address COG Operating LLC 2208 West Main Street Artesia, NM 88210		OGRID Number 229137
Property Code 40112		API Number 30-015-41041
Property Name SRO State Com		Well No 60H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	10	26S	28E	H	2450	North	380	East	Eddy

\* Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	15	26S	28E	P	330	South	380	East	Eddy

9. Pool Information

Pool Name Red Bluff, BS, South. Hay Hollow, Bone Spring	Pool Code 30215 51010
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Additional Well Information

Work Type New Well	Well Type Oil	Cable/Rotary	Lease Type State	Ground Level Elevation 2982.1
Multiple N	Proposed Depth 15763'	Formation Bone Spring	Contractor	Spud Date 10/29/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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	400	420	
Intrmd	12.25	9.625	36	2570	865	
Production	7.875	5.5	17	15763	2510	2270

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~400' 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 ~2570' 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 15763' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement in one stage bringing TOC to 2270' (300' overlap).

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

<p>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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/>, if applicable. Signature: <i>Mayte Reyes</i></p> <p>Printed name: Mayte Reyes</p> <p>Title: Regulatory Analyst</p> <p>E-mail Address: mreyes1@concho.com</p> <p>Date: 10/15/2013 Phone: 575-748-6945</p>	OIL CONSERVATION DIVISION	
	Approved By: <i>T. C. Shepard</i>	
	Title: "Geologist"	
	Approved Date: <i>10/17/2013</i>	Expiration Date: <i>10/17/2015</i>
	Conditions of Approval Attached	

DISTRICT I  
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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 30-015- <i>41741</i>	Pool Code 30215 <i>SD10</i>	Pool Name <i>Red Bluff</i> Hay Hollow; Bone Spring, <i>South</i>
Property Code <i>40112</i>	Property Name SRO STATE COM	Well Number 60H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2982.1'

Surface Location

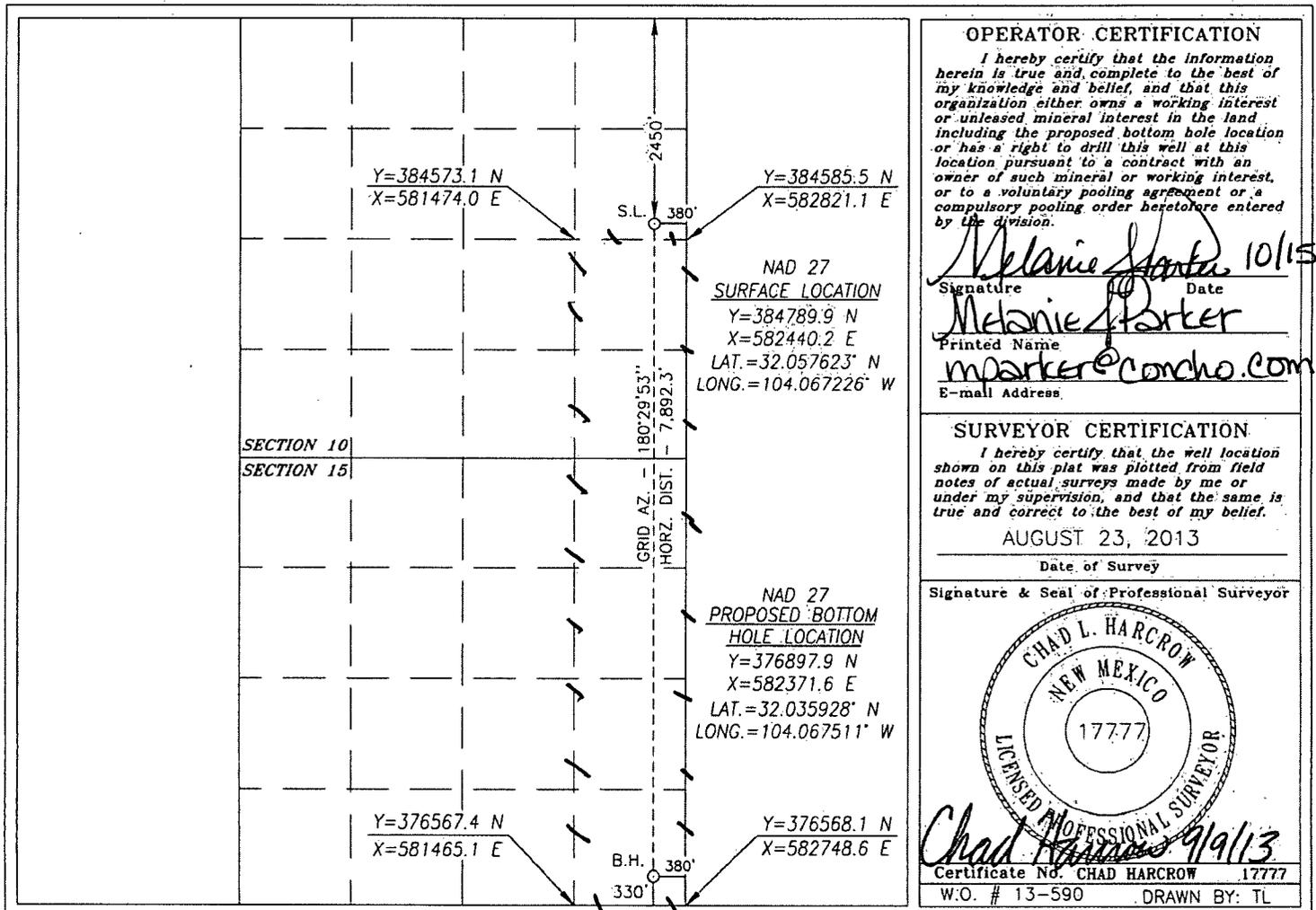
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	10	26-S	28-E		2450	NORTH	380	EAST	EDDY

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
P	15	26-S	28-E		330	SOUTH	380	EAST	EDDY

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
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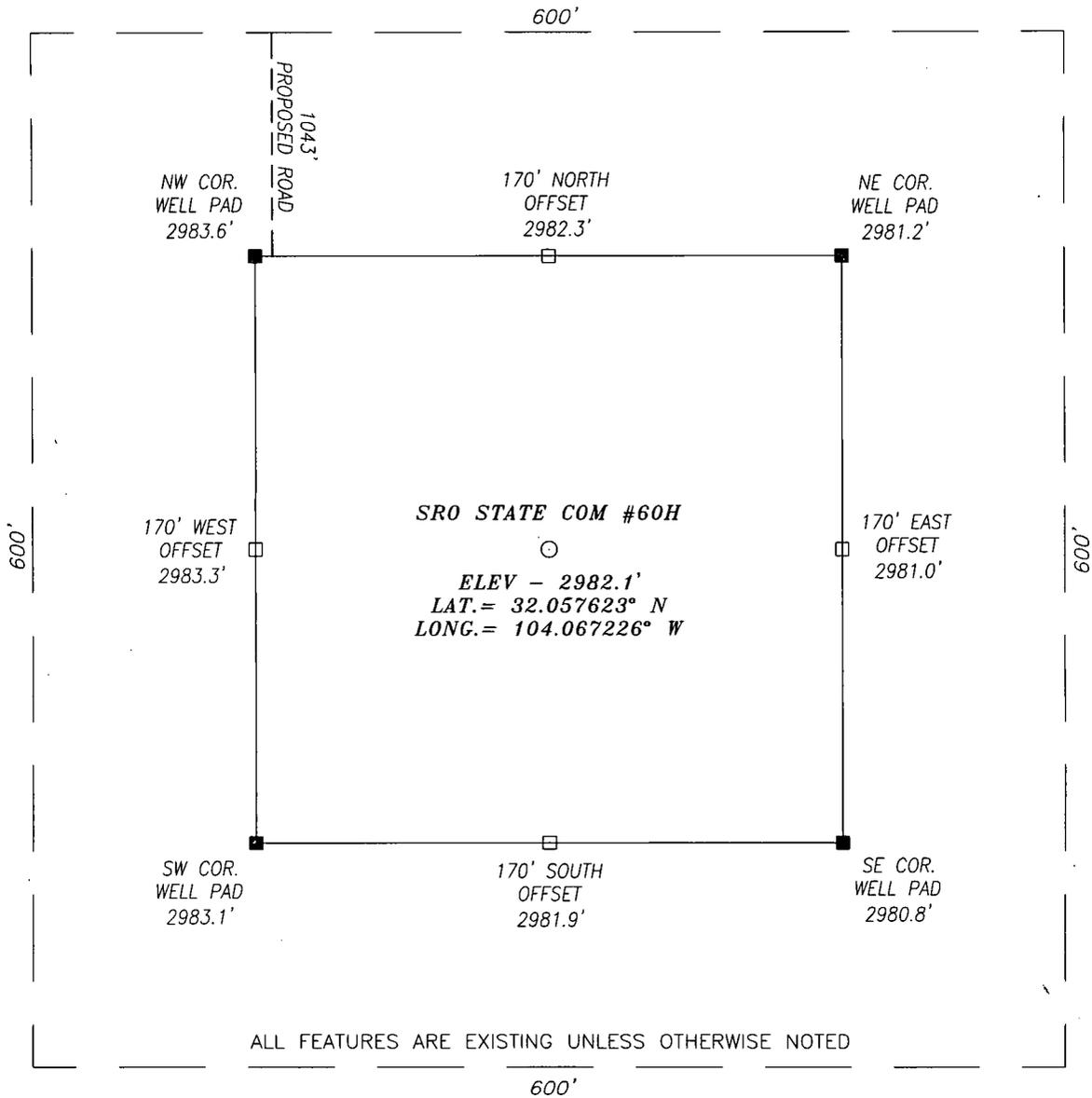
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



SECTION 10, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,

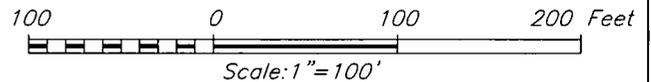
EDDY COUNTY

NEW MEXICO



DIRECTIONS TO LOCATION:

HEADING SOUTH ON HWY 285 TURN RIGHT (WEST) ONTO CR #724 (WHITES CITY RD) AND GO APPROX. 0.1 MILE THEN PROPOSED WELL IS APPROX. 1235 FEET SOUTH.

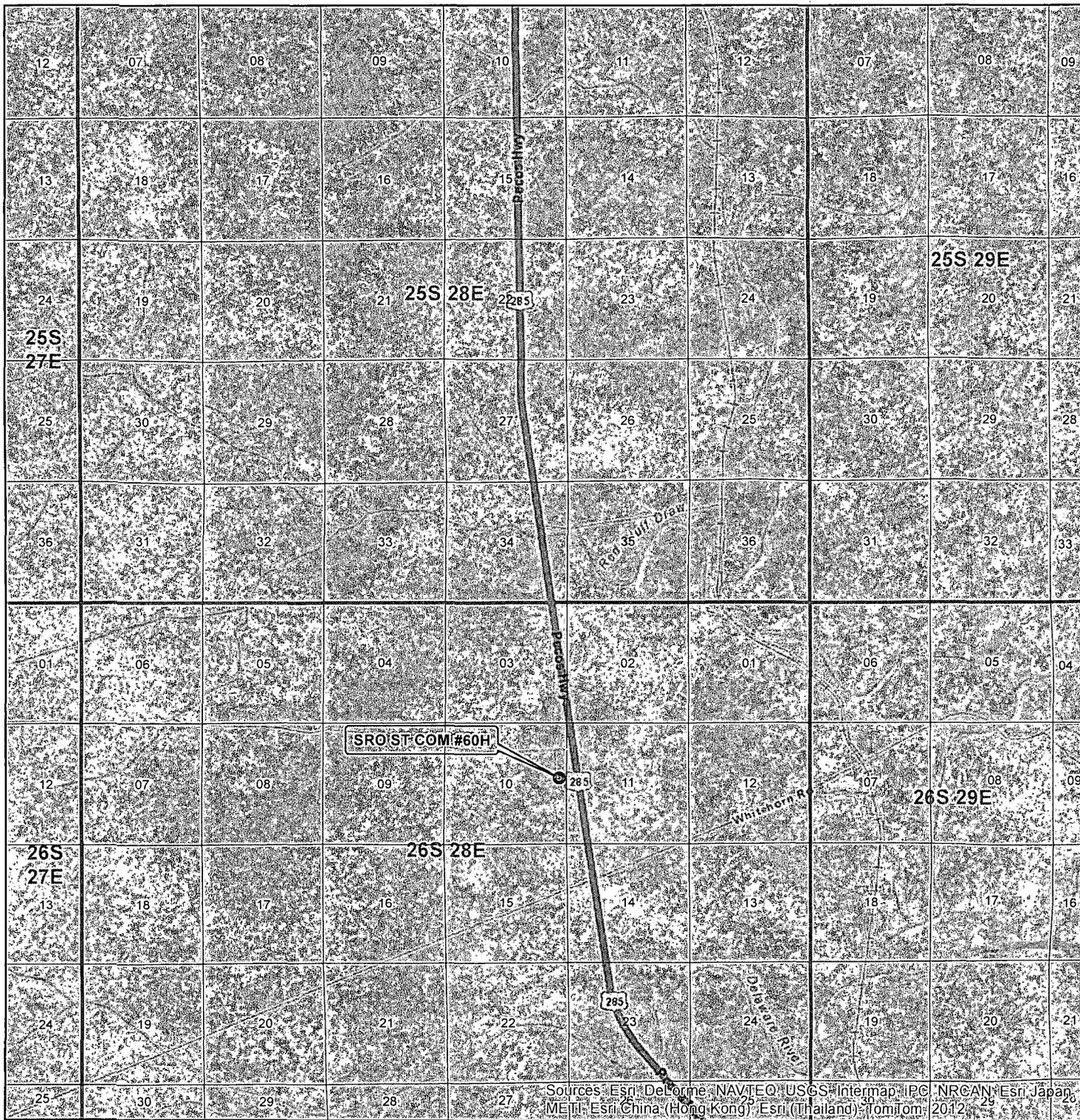


HARCROW SURVEYING, LLC  
 2314 W. MAIN ST, ARTESIA, N.M. 88210  
 PH: (575) 513-2570 FAX: (575) 746-2158  
 chad\_harcrow77@yahoo.com



<b>COG OPERATING, LLC</b>	
SRO STATE COM #60H WELL LOCATED 2450 FEET FROM THE NORTH LINE AND 380 FEET FROM THE EAST LINE OF SECTION 10, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO	
SURVEY DATE: 08/23/2013	PAGE: 1 OF 1
DRAFTING DATE: 08/26/2013	
APPROVED BY: CH	DRAWN BY: TL FILE: 13-590

# VICINITY MAP

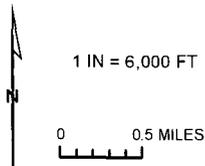


Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2012

SEC. 10, TWP. 26 S., RGE. 28E  
 SURVEY: N.M.P.M.  
 COUNTY: EDDY STATE: NEW MEXICO  
 DESCRIPTION: SRO ST COM #60H  
 2450' FNL, 380' FEL

ELEVATION: 2982.1'  
 OPERATOR: COG OPERATING LLC  
 LEASE: SRO ST COM

W.O. # 13-590



- WELL
- TOWNSHIP
- SECTION

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



MAP DATE: 8/29/2013

# LOCATION VERIFICATION MAP



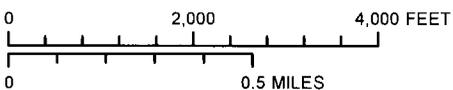
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W.O. # 13-590

- WELL
- WELL PAD
- MAIN ROAD
- PROPOSED ROAD

1 IN = 2,000 FT

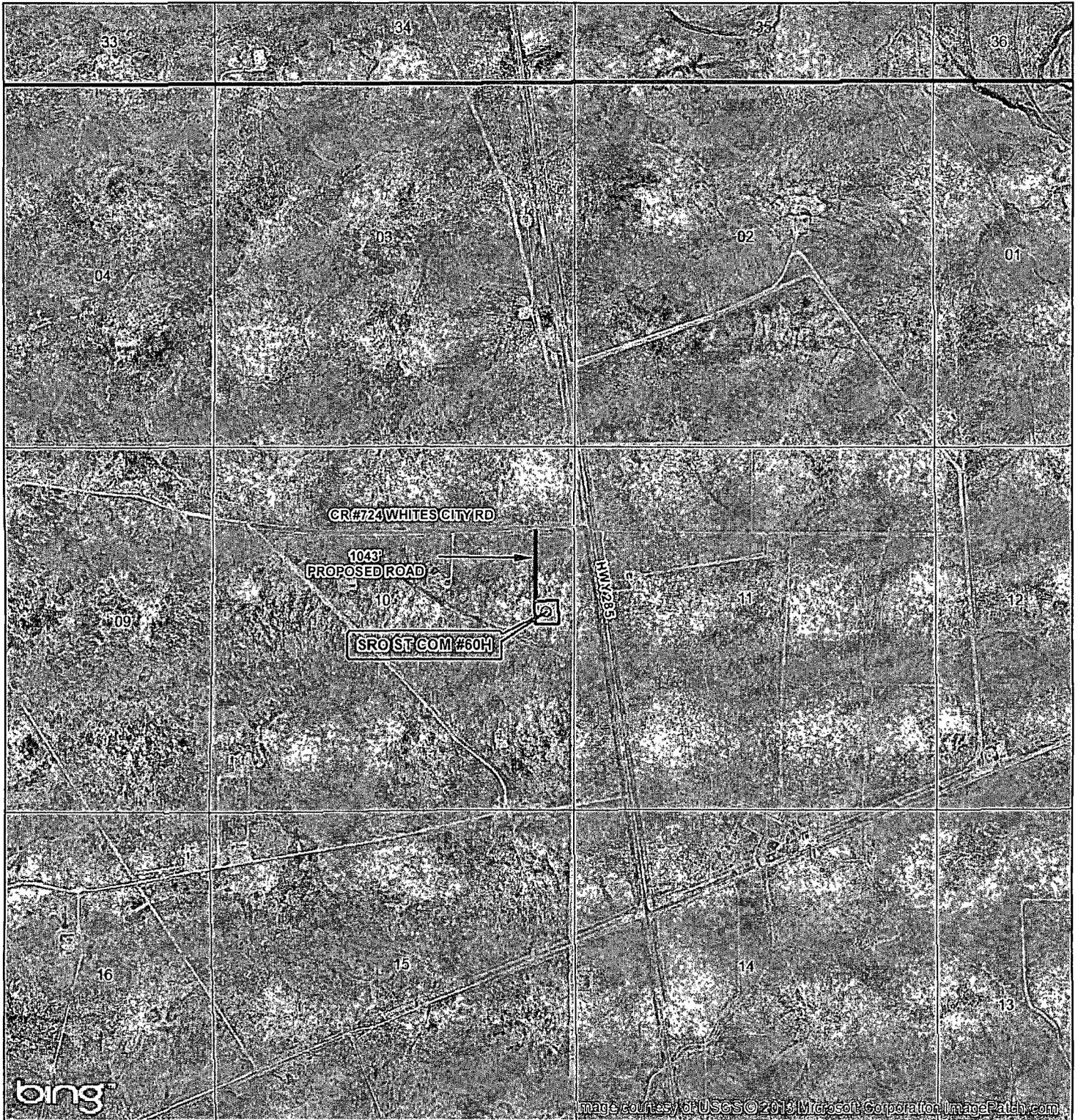


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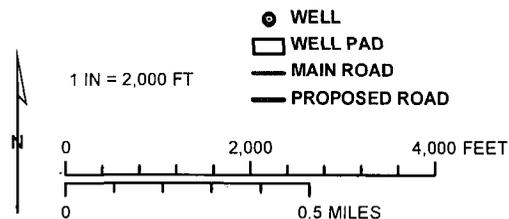
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MAP DATE: 8/29/2013

## Permit Conditions of Approval

API: 30-015-41741

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string