District I

625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

<u>District II</u>

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				,								
APPLI	CATIO	N FOI	R PERMIT T	O DRII	L, RE-ENT	ΓER, DE	EPEN, I	PLUGBAC	K, OR A	DD A ZONE				
	Operator Name and Address									2 OGRID Number				
COG Operating LLC 2208 West Main Street									22913	7				
			3/2-12/5	30-015 API Number 6										
4. Prope	Artesia, NM 88210 30-015-47													
<u> </u>	7	<u> </u>	<u>'L</u>		SRO State Co				<u>l_</u>	41H				
				Т	Surface Loca									
UL – Lot	Section	Township		Lot Idn	Feet from		S Line	Feet From	E/W Line	County				
/h	3	26S	28E	2	190	N.	lorth	2310	East	Eddy				
,			8 Proposed Bo	ttom Hol	e Location				_	•				
UL - Lot	Section	Township	1 -	Lot Idn	Feet from	1 N/S	S Line	Feet From	E/W Line	County				
О	10	268	28E	0	330	s	outh	2100	East	Eddy .				
		<u> </u>		! !	Pool Inform	ation				<u>-</u>				
RED Blo		Soc	th		Pool Name					Pool Code				
<u> </u>				Addi	tional Well In	formation				51010				
. 11. Wor	k Type Well		^{12.} Well Type Oil		13. Cable/Rot		14	Lease Type State	15.	Ground Level Elevation 2938.9				
	ultiple		17. Proposed Depth	18. Formation 19.			Contractor	2938.9 20. Spud Date						
1	٧		17994		Bone Sp					10/29/2013				
Depth to Grou	Depth to Ground water Distance from nearest fresh water well Distance to nearest surf								ace water					
⊠We will be u	ising a close	ed-loop sy	stem in lieu of lined		,									
				Proposed	Casing and C	Cement Pro	ogram			· · · · · · · · · · · · · · · · · · ·				
Туре	Hole	Size	Casing Size	Casing	g Weight/ft	Setting	Depth	Sacks of 0	Cement	Estimated TOC				
Surface	17	7.5	13.375		48 350		365							
Intrmd	12.	.25	9.625		36	25	20	850						
Production 7.875 5.5 17			17	179	994	3010 2220								

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% CaCl₂ to cement to surface, if necessary.

Drill 12-1/4" hole to ~2520' 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 17994' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement in one stage bringing TOC to 2220' (300' overlap).

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

best of my knowledge and belief.	tion given above is true and complete to the	OIL CONSERVATION DIVISION					
19.15.14.9 (B) NMAC ⊠, if appl	olied with 19.15.14.9 (A) NMAC 🛮 and/or icable	Approved By:					
Signature: M	T 1/0	1. C. STADULA					
Printed name: Mayte Reyes	<i>b</i>	Title: / "Geologist" / /					
Title: Regulatory Analyst		Approved Date: 10/17/2013 Expiration Date: 10/17/2015					
E-mail Address: mreyes1@concho	com	/ / /					
Date: 10/15/2013	Phone: 575-748-6945	Conditions of Approval Attached					

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 86240 Phone: (675), 393-6161 Fax: (676) 393-0720 DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210 Phone: (576) 748-1283 Fax: (575) 748-9720

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Santa Fe, New Mexico 87505

L CONSERVATION DIVISION 11885 SOUTH ST. FRANCIS DR.

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) 478-3480 Fax: (505) 478-3482 Form C-102 Revised August 1, 2011 Submit one copy to appropriate

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30-015-30215 Hollow; Bone Spring Well Number Property Name Property, Code 51010 40112 SRO STATE COM 41H OGRID No. Operator Name Elevation COG OPERATING, LLC 2938.9 229137

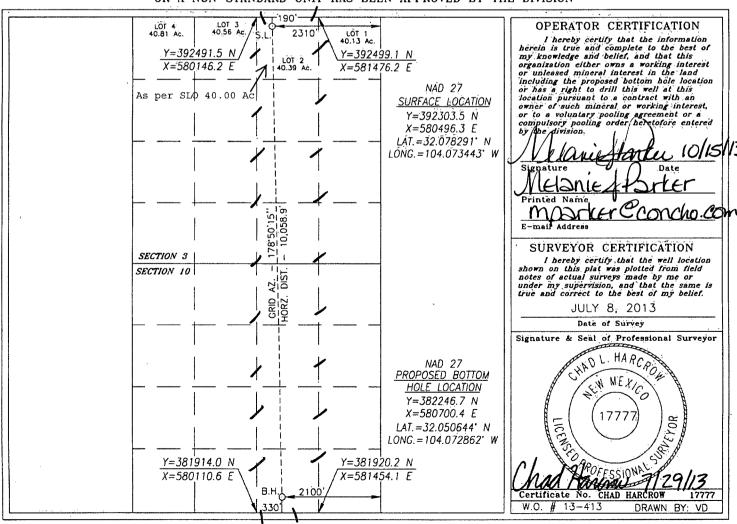
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2 hr	3	26-S	28-E		190	NORTH	2310	EAST	ÉDDY

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
Ö	10	26-S	28-E		330	SOUTH	2100	EAST	ËĎDY
Dedicated Acres	s Joint o	r Infill Co	nsolidation	Code Or	der No.	<u> </u>			
320						•			

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 3, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY NEW MEXICO 600' 170' NORTH NE COR. NW COR. **OFFSET** WELL PAD WELL PAD SECTION 34 2942.7' = 2942.0' = SECTION 3 TWO TRACK RD. SRO STATE COM #41H 170' EAST 170' WEST OFFSET OFFSET 0 2940.4 2934.9' ELEV - 2938.9 $LAT. = 32.078291^{\circ} N$ LONG.= 104.073443° W SW COR. SE COR. 170' SOUTH WELL PAD WELL PAD **OFFSET** 2930.7' 2935.7' 2933.0' ALL FEATURES ARE EXISTING UNLESS OTHERWISE NOTED 600'

DIRECTIONS TO LOCATION

HEADING SOUTH ON HWY 285 APPROX. 0.7 MILE PAST MILE MARKER 6 TURN RIGHT (WEST) ONTO A CALICHE RD. AND STAY ON ROAD FOR APPROX 0.8 MILE; ARRIVING AT EXISTING SRO ST UNIT #20H WELLPAD; GO TO NORTHWEST PAD CORNER AND FOLLOW TWO TRACK WEST FOR APPROX. 0.2 MILE; THEN PROPOSED WELL IS APPROX. 180 FEET SOUTH.

100 0 100 200 Feet

| Scale:1"=100'

HARCROW SURVEYING, LLC

1107 WATSON, ARTESIA, N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com

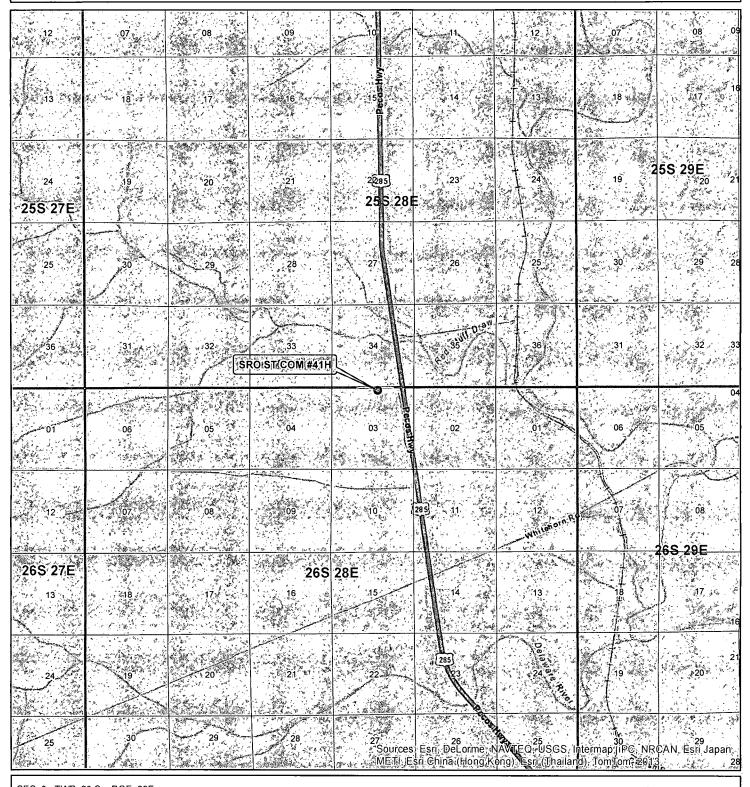


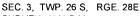
COG OPERATING, LLC

SRO STATE COM #41H WELL
LOCATED 190 FEET FROM THE NORTH LINE
AND 2310 FEET FROM THE EAST LINE OF SECTION 3,
TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

EDD1	COUNTI, NEW	IA	EMCO				
SURVEY DATE:	07/08/2013		PAGE:	1	OF	1	
DRAFTING DATE:	07/10/2013						
APPROVED_BY: CH	DRAWN BY: V	D	FILE:	13-	413		Τ

VICINITY MAP





SURVEY: N.M.P.M

COUNTY: EDDY STATE: NEW MEXICO DESCRIPTION: SRO ST COM #41H

190' FNL, 2310' FEL

ELEVATION: 2938.9'

OPERATOR: COG OPERATING LLC

LEASE: SRO ST COM

W.O. # 13-413

WELL
TOWNSHIP

1 IN = 6,000 FT
SECTION

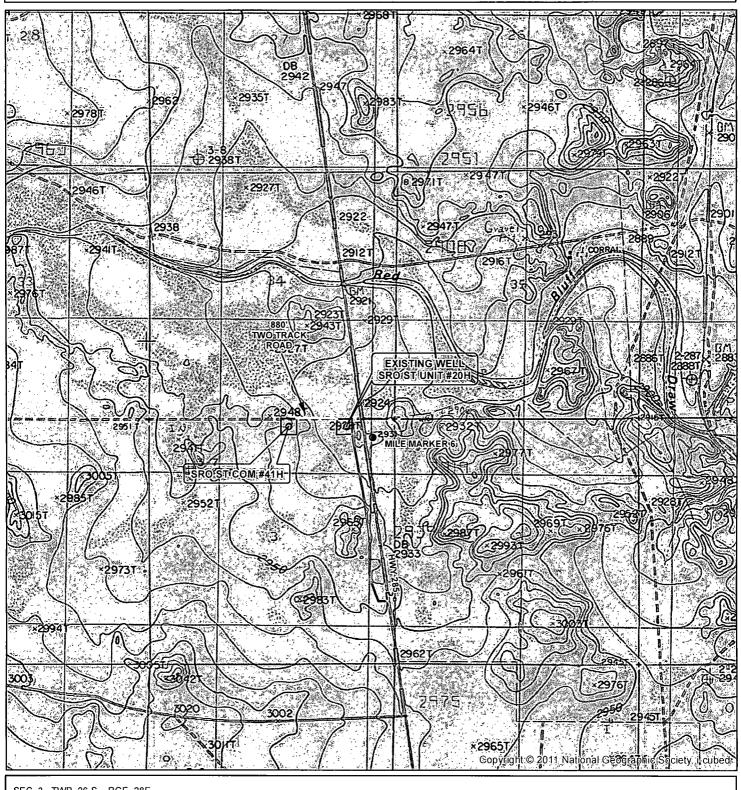
0.5 MILES

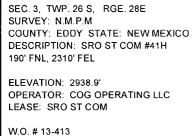
HARCROW SURVEYING, LLC
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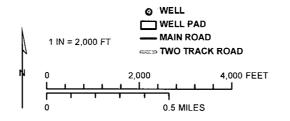


MAP DATE: 7/17/2013

LOCATION VERIFICATION MAP







HARCROW SURVEYING, LLC 1107 WATSON, ARTESIA N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com



MAP DATE: 7/17/2013

LOCATION VERIFICATION MAP



SEC. 3, TWP. 26 S, RGE. 28E

SURVEY: N.M.P.M

COUNTY: EDDY STATE: NEW MEXICO

DESCRIPTION: SRO ST COM #41H

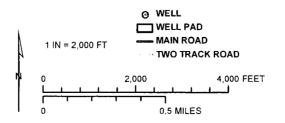
190' FNL, 2310' FEL

ELEVATION: 2938.9'

OPERATOR: COG OPERATING LLC

LEASE: SRO ST COM

W.O. # 13-413



HARCROW SURVEYING, LLC 1107 WATSON, ARTESIA N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com



MAP DATE: 7/17/2013

Permit Conditions of Approval

API:

30-0/5-40/12

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