

District I
1625 N. French Dr., Hobbs, NM 88241
Phone: (575) 393-6161 Fax: (575) 393-0720

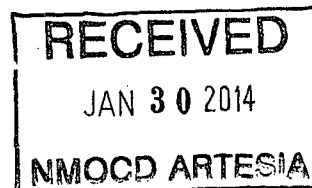
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rto 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-1111
Revised July 18, 2013



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 30-015-42023 Well No 47H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	7	26S	28E	A	190	North	660	East	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	18	26S	28E	P	330	South	480	East	Eddy

9. Pool Information

Pool Name Hay Hollow; Bone Spring	Pool Code 30215
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Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3055.4
16. Multiple N	17. Proposed Depth 17786	18. Formation Bone Spring	19. Contractor	20. Spud Date 2/6/2014
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	350	365	
Intumid	12.25	9.625	36	2340	800	
Production	7.875	5.5	17	17786	3005	2040

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 ~2340' 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 17786' with cut brine. Run 5-1/2" 17# P110 Tenaris XP BTC casing to TD and cement in one stage bringing TOC to 2040' (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	OIL CONSERVATION DIVISION Approved By: <i>T. C. Shepard</i> "Geologist" Title: _____ Approved Date: 1-30-2014 Expiration Date: 1-30-2016 Conditions of Approval Attached
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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- 42023	Pool Code 30215	Pool Name Hay Hollow; Bone Spring
Property Code 40112	Property Name SRO ST COM	Well Number #47H
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3055.4

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	7	26S	28E		190'	NORTH	660'	EAST	EDDY

Bottom Hole Location If Different From Surface

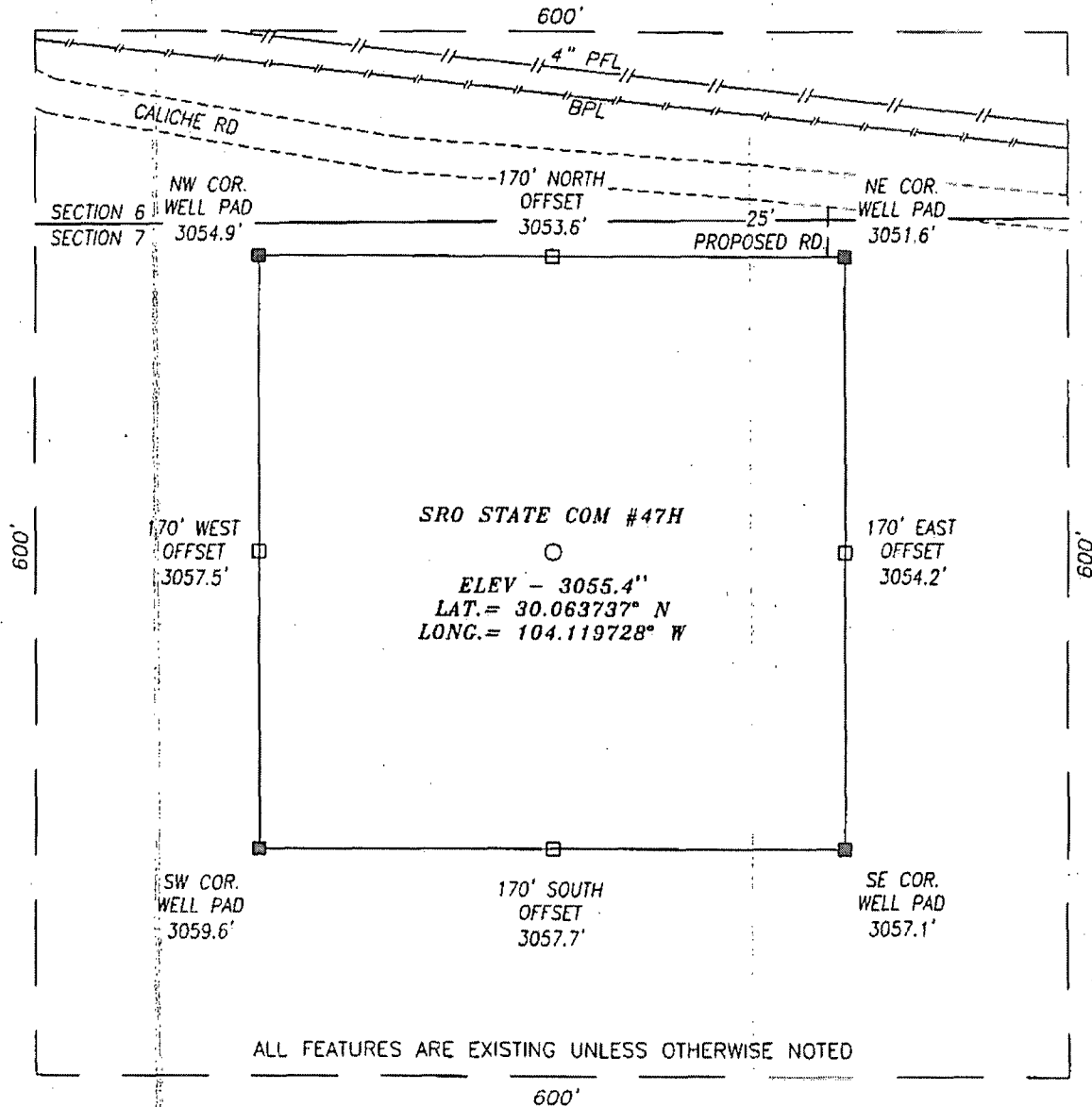
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	26S	28E		330'	SOUTH	480'	EAST	EDDY

Dedicated Acres 320	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

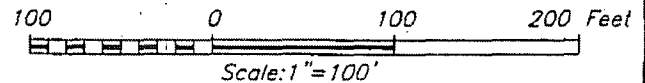
NAD 27 <u>SURFACE LOCATION</u> Y=386977.6 N X=566170.7 E LAT.=32.063737° N LONG.=104.119728° W NAD 27 <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=376918.9 N X=566370.6 E LAT.=32.036084° N LONG.=104.119147° W	LOT 1 41.07 Ac LOT 2 40.91 Ac LOT 3 40.74 Ac LOT 4 40.54 Ac SECTION 7 LOT 1 SECTION 18 LOT 2 LOT 3 40.49 Ac LOT 4 40.58 Ac LOT 5 40.66 Ac LOT 6 40.75 Ac	Y=387162.3 N X=565519.2 E Y=387173.1 N X=566830.8 E Y=376572.4 N X=565532.5 E Y=376598.3 N X=566852.2 E	190' SL 660' GRID AZ. 178°51'41" HORZ. DIST. 10,060.7' B.H. 480' 333'	OPERATOR CERTIFICATION 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. <i>Melanie Parker</i> 1/29/14 Signature Date Printed Name E-mail Address <i>m.parker@concho.com</i> SURVEYOR CERTIFICATION 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. OCTOBER 21, 2013 Date of Survey Signature & Seal of Professional Surveyor <i>Chad Hargrow</i> 11/4/13 Certificate No. CHAD HARGROW 17777 W.O. # 13-734 DRAWN BY:
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SECTION 7, 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. 3.1 MILES:
THEN PROPOSED WELL IS APPROX. 255 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



COG OPERATING, LLC

SRO STATE COM #47H WELL
LOCATED 190 FEET FROM THE NORTH LINE
AND 880 FEET FROM THE EAST LINE OF SECTION 7,
TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

SURVEY DATE: 10/21/2013

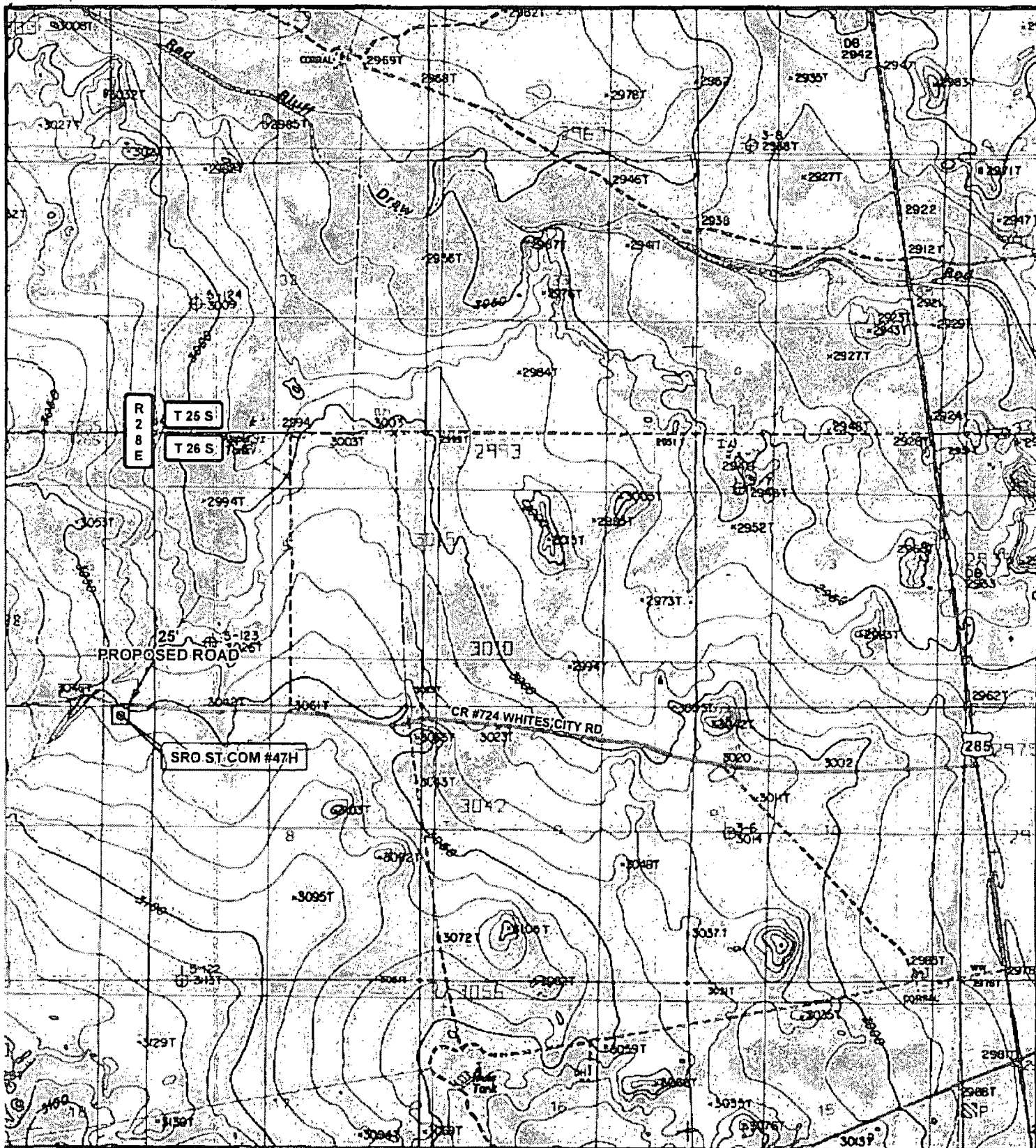
PAGE: 1 OF 1

DRAFTING DATE: 10/23/2013

APPROVED BY: CH

DRAWN BY: TL

FILE: 13-734



LEGEND

- WELL
- WELL PAD
- MAIN ROAD
- PROPOSED ROAD

WELL NAME: SRO ST COM #47H

SEC: 7 TWP: 26 S. RGE: 28 E. ELEVATION: 3055.4'

STATE: NEW MEXICO COUNTY: EDDY 190' FNL, 660' FEL

W.O. # 13-734 LEASE: SRO ST COM SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.15 0.3 0.6 Miles

1 IN = 2,500 FT

LOCATION MAP

TOPO

10/21/2013

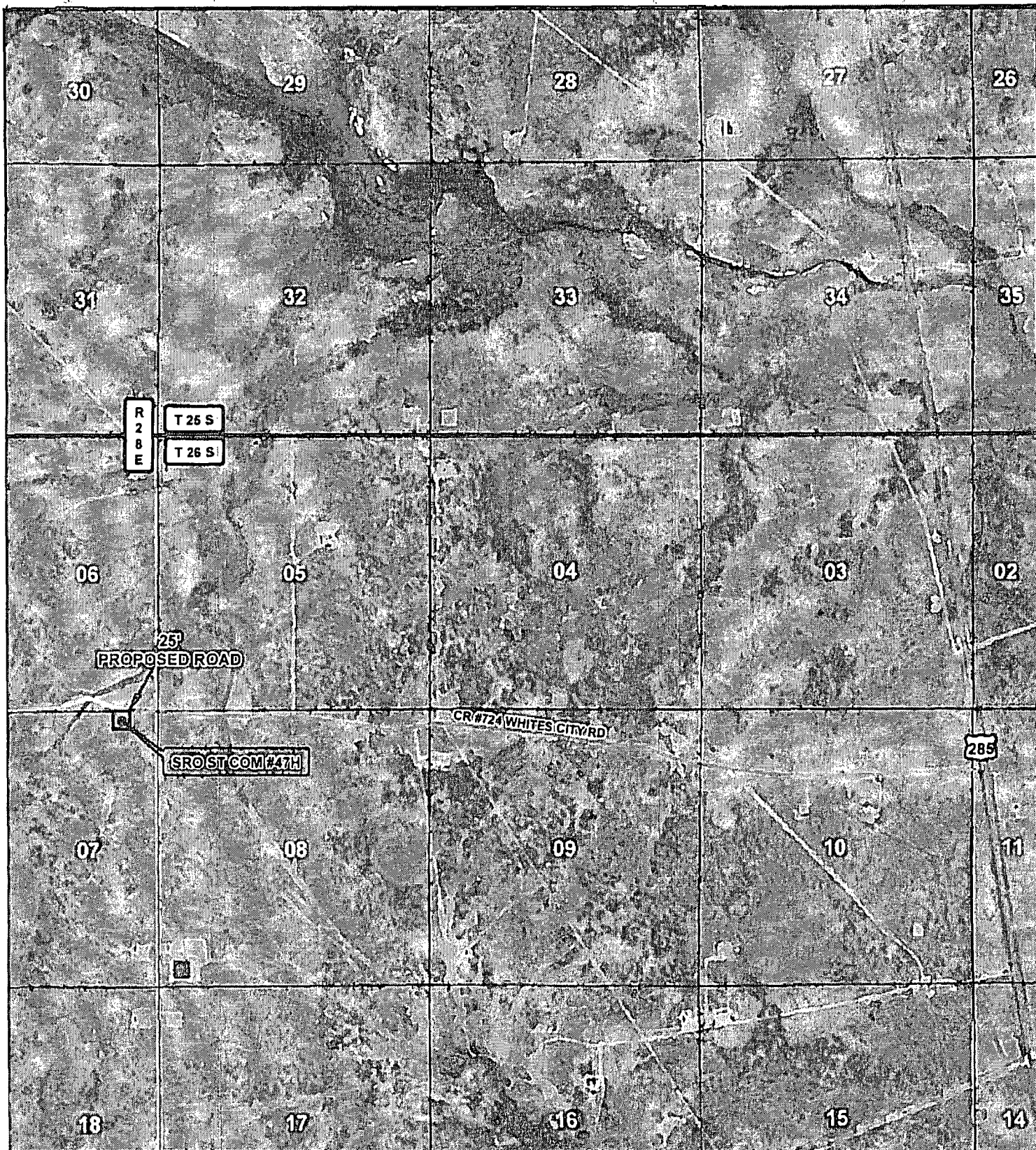
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COG OPERATING, LLC

HARCROW SURVEYING, LLC
1107 WATSON, ARTESIA, NM 88210
TEL: (505) 813-2570 FAX: (505) 746-2158
chad.harcrow@yahoo.com





LEGEND

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

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0 2,500 5,000 FEET

0 0.15 0.3 0.6 Miles

1 IN = 2,500 FT

LOCATION MAP

IMAGERY

10/21/2013

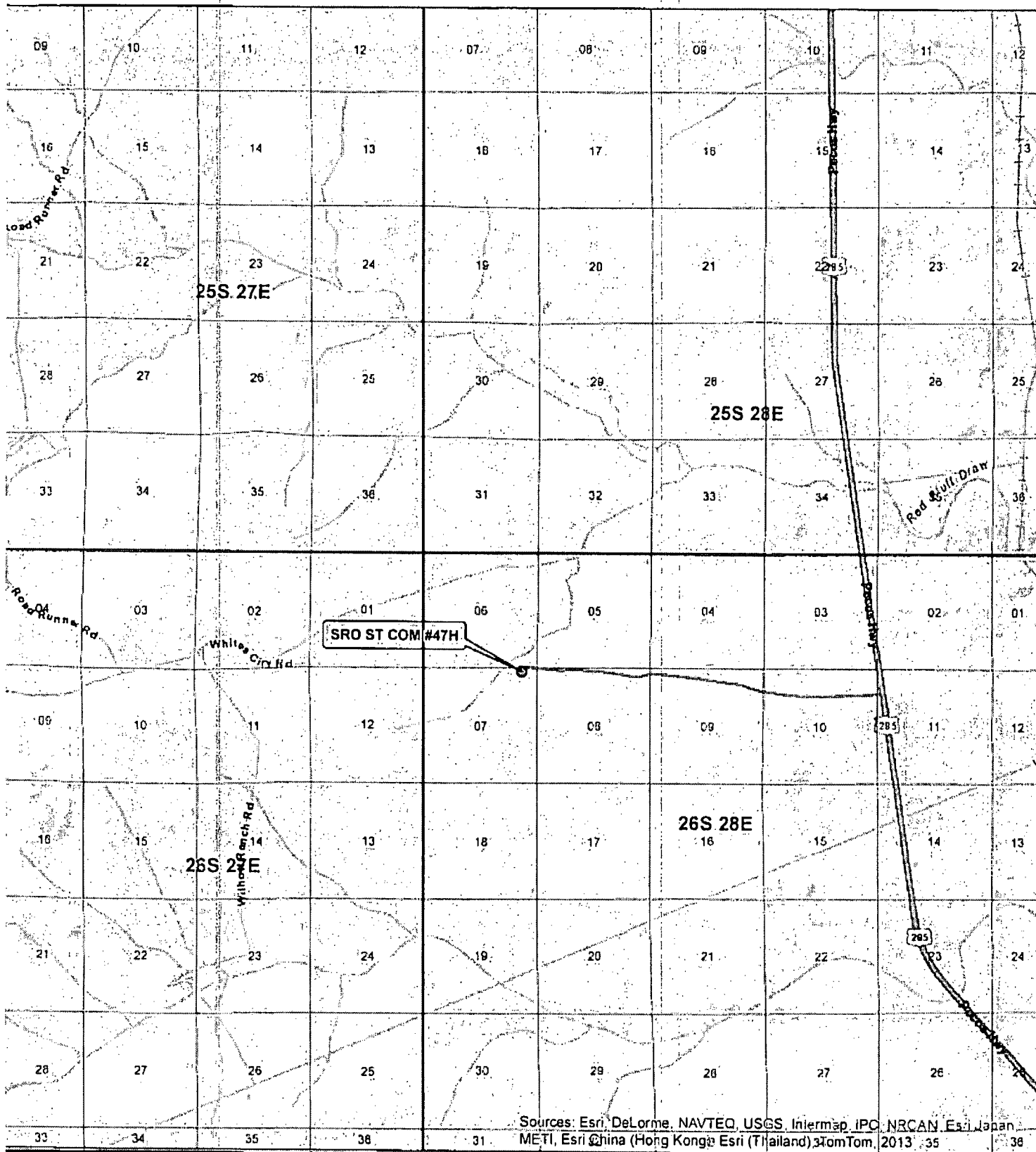
KIL

CONCHO

COG OPERATING, LLC

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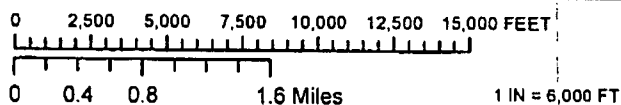
Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

LEGEND

- ⊙ WELL
- MAIN ROAD

WELL NAME: SRO ST COM #47H

SEC: 7 TWP: 26 S. RGE: 28 E. ELEVATION: 3055.4'
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 W.O. # 13-734 LEASE: SRO ST COM SURVEY: N.M.P.M



VICINITY MAP

10/21/2013

K-11

CONCHO
 COG OPERATING, LLC

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 PH: (575) 543-2570 FAX: (575) 746-2158
 chad_harcrow77@yahoo.com



Permit Conditions of Approval

API: 30-015-40112

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