

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

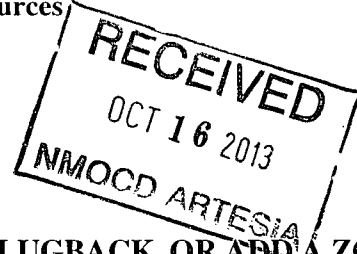
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

¹ Operator Name and Address COG Operating LLC 2208 West Main Street Artesia, NM 88210		² OGRID Number 229137 ³ APL Number 30-015-41734
⁴ Property Code 40178	⁵ Property Name Myox 30 State Com	⁶ Well No 1H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	30	25S	28E	A	190	North	660	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	31	25S	28E	P	330	South	660	East	Eddy

9. Pool Information

Pool Name Hay Hollow: Bone Spring * <i>North</i>	Pool Code 30215- <i>30216</i>
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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 3001.7
¹⁶ Multiple N	¹⁷ Proposed Depth 17710'	¹⁸ Formation Bone Spring	¹⁹ Contractor	²⁰ Spud Date 10/24/2013
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	300	315	
Intrmd	12.25	9.625	36	2340	800	
Production	7.875	5.5	17	17710	3000	2040

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~300' 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 17710' with cut brine. Run 5-1/2" 17# P110 LTC 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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: <i>Mayte Reyes</i> Printed name: Mayte Reyes Title: Regulatory Analyst E-mail Address: mreyes1@concho.com Date: 10/15/2013	<div style="text-align: center;">OIL CONSERVATION DIVISION</div> Approved By: <i>T. C. Shepard</i> Title: "Geologist" Approved Date: <i>10/16/2013</i> Expiration Date: <i>10/16/2015</i> Conditions of Approval Attached
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DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-0720

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) 478-3460 Fax: (505) 478-3462

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- 41734	Pool Code 20215	Pool Name Hay Hollow; Bone Spring, North
Property Code 40178	Property Name MYOX 30 STATE COM	Well Number 1H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3001.7

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	30	25-S	28-E		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	31	25-S	28-E		330	SOUTH	660	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

LOT 1	40.87 Ac	Y=403028.0 N X=565473.6 E
LOT 2		
LOT 3	41.13 Ac	
LOT 4	41.23 Ac	
LOT 1	41.43 Ac	
LOT 2	41.24 Ac	
LOT 3	41.06 Ac	
LOT 4	40.88 Ac	
LOT 1	40.72 Ac	Y=392457.6 N X=565508.7 E

SECTION 30
SECTION 31

GRID AZ. = 180°03'19"
HORZ. DIST. = 10.030.4

NAD 27
SURFACE LOCATION
Y=402817.4 N
X=566193.3 E
LAT.=32.107281° N
LONG.=104.119554° W

NAD 27
PROPOSED BOTTOM
HOLE LOCATION
Y=392787.0 N
X=566183.6 E
LAT.=32.107281° N
LONG.=104.119554° W

Y=402988.6 N
X=566852.0 E

Y=392456.4 N
X=566840.2 E

190' S.L. 660'

660'

330'

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.

Melanie Parker 10/15/13
Signature Date
Melanie J Parker
Printed Name
mparker@concho.com
E-mail Address

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.

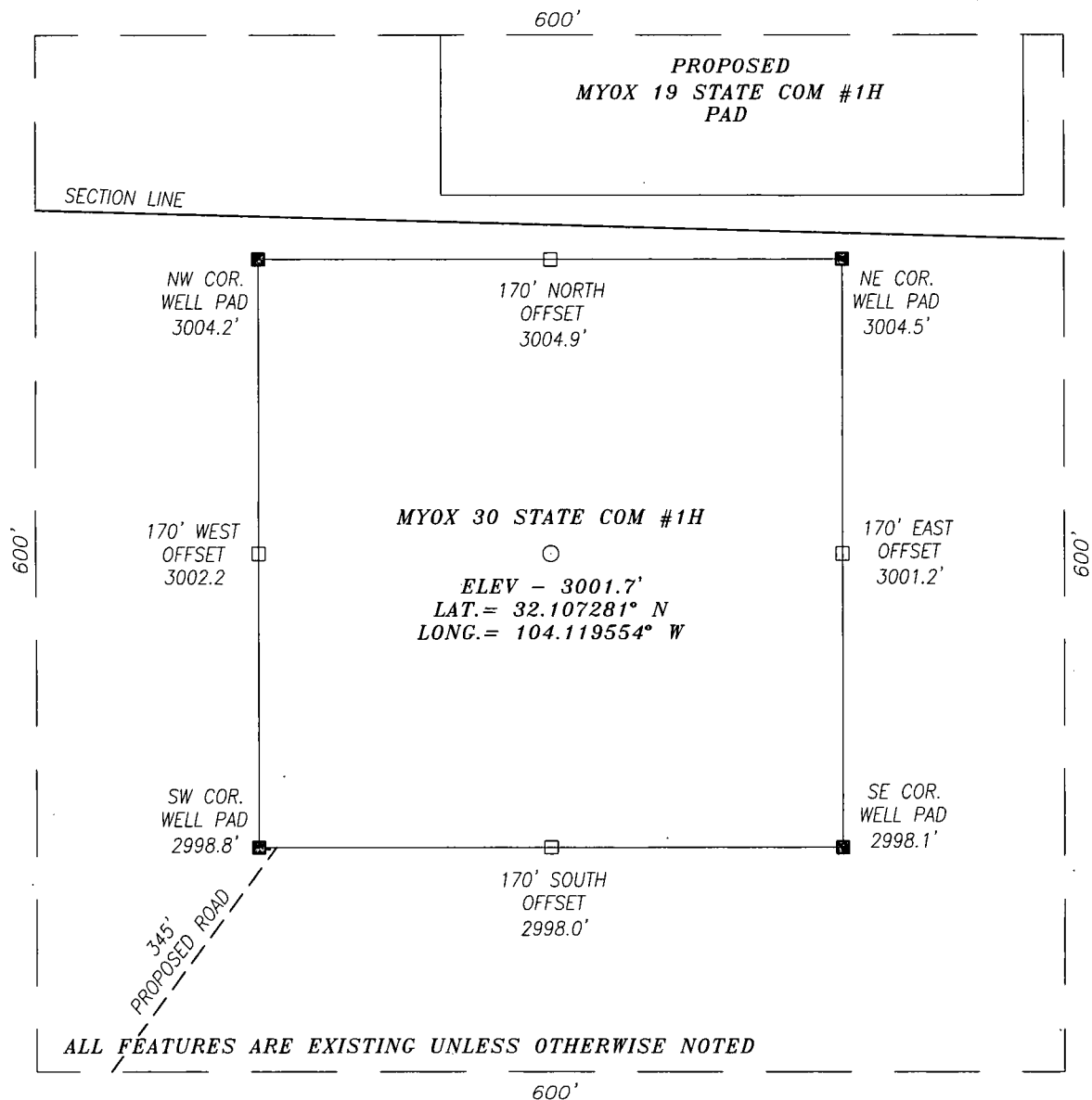
APRIL 5, 2013
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

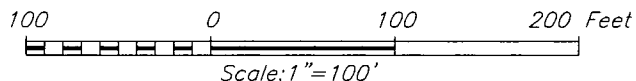
Chad Harcrow 5/24/13
Certificate No. CHAD HARCROW 17777
W.O. # 13-305 DRAWN BY: VD

SECTION 30, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

HEADING SOUTH ON HWY 285 0.9 MILES PAST MILE MARKER 10 TURN RIGHT (WEST) ONTO A CALICHE RD GO APPROX. 2.6 MILES TURN LEFT (SOUTHWEST) GO APPROX. 0.4 MILES TURN RIGHT (NORTHWEST) GO APPROX. 0.1 MILES TURN LEFT (SOUTHWEST) GO APPROX. 0.2 MILES TURN LEFT (SOUTH) GO APPROX. 0.3 MILES TURN LEFT (EAST) STAY ON WINDING ROAD FOR APPROX. 0.8 MILE AND PROPOSED WELL IS 585 FEET NORTHEAST.



HARCROW SURVEYING, LLC

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



COG OPERATING, LLC

MYOX 30 STATE COM #1H WELL
LOCATED 190 FEET FROM THE NORTH LINE
AND 660 FEET FROM THE EAST LINE OF SECTION 30,
TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

SURVEY DATE: 04/05/2013

PAGE: 1 OF 1

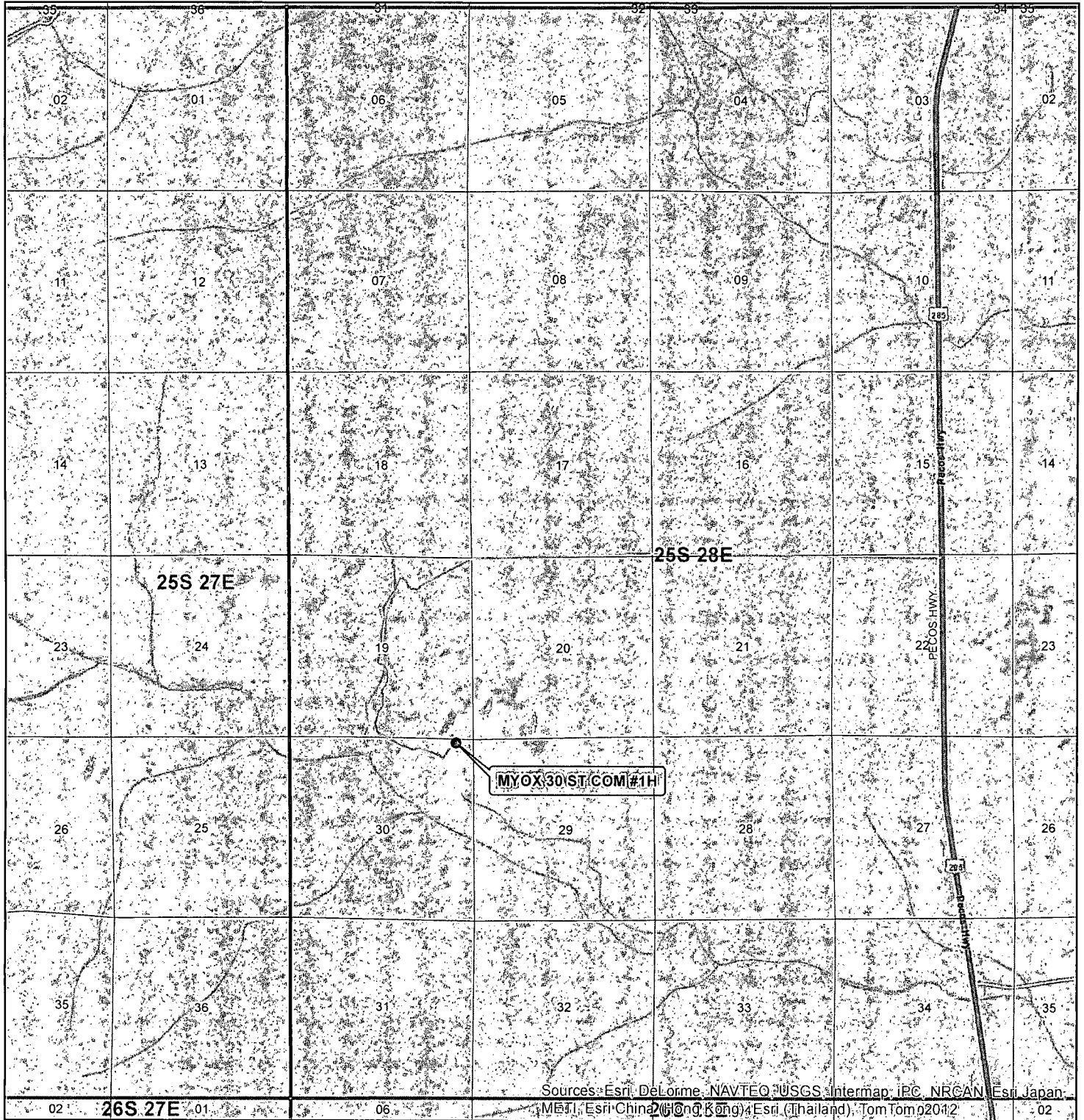
DRAFTING DATE: 04/08/2013

APPROVED BY: CH

DRAWN BY: VD

FILE: 13-165

VICINITY MAP



SEC. 30, TWP. 25S, RGE. 28E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 30 ST COM #1H
 190' FNL, 660' FEL

ELEVATION: 3001.7'
 OPERATOR: COG OPERATING
 LEASE: MYOX 30 ST COM

W.O. # 13-165



1 IN = 4,000 FT

0 0.5 MILES

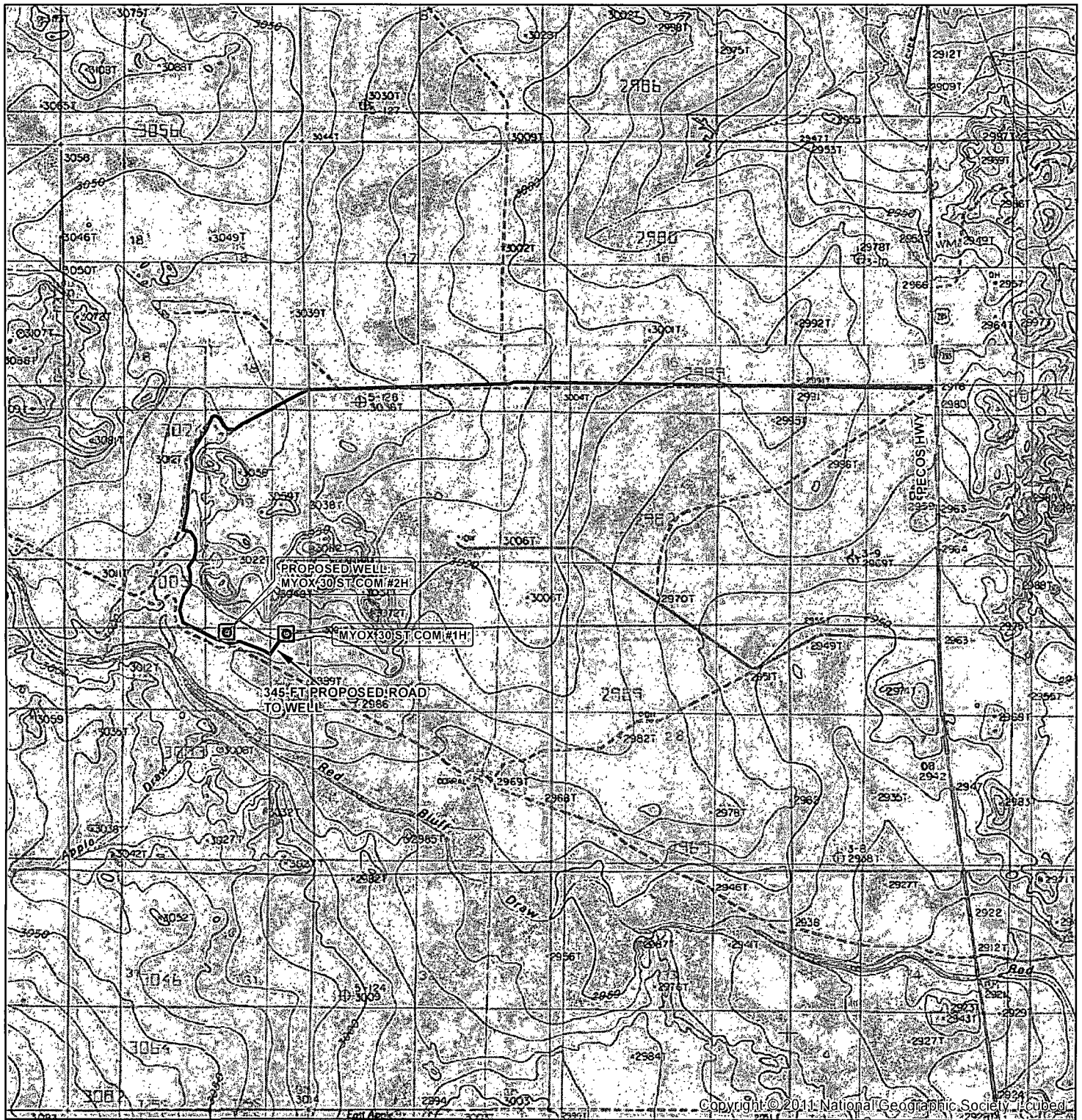
- Well
- ▬ TOWNSHIP
- SECTION

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



MAP DATE: 4/9/2013

LOCATION VERIFICATION MAP



SEC. 30, TWP. 25S, RGE. 28E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 30 ST COM #1H
 190' FNL, 660' FEL

ELEVATION: 3001.7'
 OPERATOR: COG OPERATING
 LEASE: MYOX 30 ST COM

W.O. # 13-165

- WELL
- WELL PAD
- PROPOSED ROAD
- EXISTING ROAD

1 IN = 3,000 FT

0 1,000 2,000 3,000 4,000 5,000 FEET
 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 MILES

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



MAP DATE: 4/10/2013

Permit Conditions of Approval

API: 30-0/5-40178

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