

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

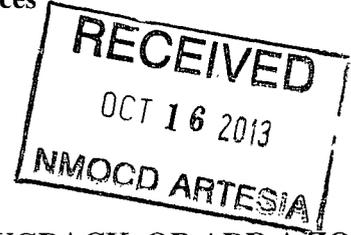
Form C-101
Revised July 18, 2013

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

¹ Operator Name and Address COG Operating LLC 2208 West Main Street Artesia, NM 88210		² OGRID Number 229137
³ Property Code <i>40178</i>		⁴ Property Name Myox 30 State Com
		⁵ Well No 4H
⁶ API Number <i>30-015-91737</i>		

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
<i>1/0</i>	30	25S	28E	1	190	North	660	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
4	31	25S	28E	4	330	South	660	West	Eddy

9. Pool Information

Pool Name Hay Hollow: Bone Spring ; <i>Abeth</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 17686'	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	2280	790	
Production	7.875	5.5	17	17686	3000	1980

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 ~2280' 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 17686' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement in one stage bringing TOC to 1980' (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: *Mayte Reyes*

Printed name: Mayte Reyes

Title: Regulatory Analyst

E-mail Address: mreyes1@concho.com

Date: 10/15/2013

Phone: 575-748-6945

OIL CONSERVATION DIVISION	
Approved By:	<i>T. C. Shepard</i>
Title:	<i>"Geologist"</i>
Approved Date:	<i>10/16/2013</i>
Expiration Date:	<i>10/16/2015</i>
Conditions of Approval Attached	

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-8191 Fax: (575) 393-0720

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

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-6170

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 41737	Pool Code 30215	Pool Name Hay Hollow; Bone Spring, North
Property Code 40178	Property Name 30216 MYOX 30 STATE COM	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3001.7

Surface Location

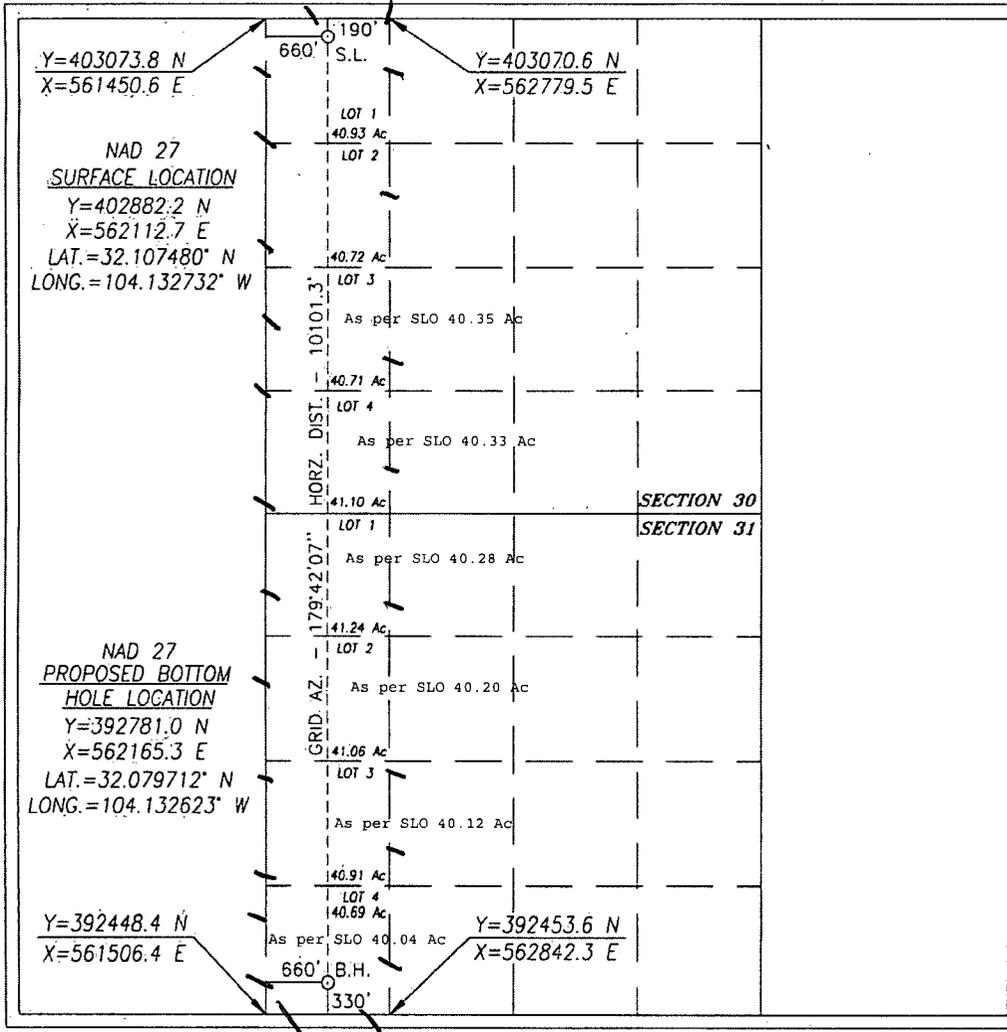
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	25-S	28-E		190	NORTH	660	WEST	EDDY

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
4	31	25-S	28-E		330	SOUTH	660	WEST	EDDY

Dedicated Acres 322.97	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



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 Parker
Printed Name
mparker@concho.com
E-mail Address

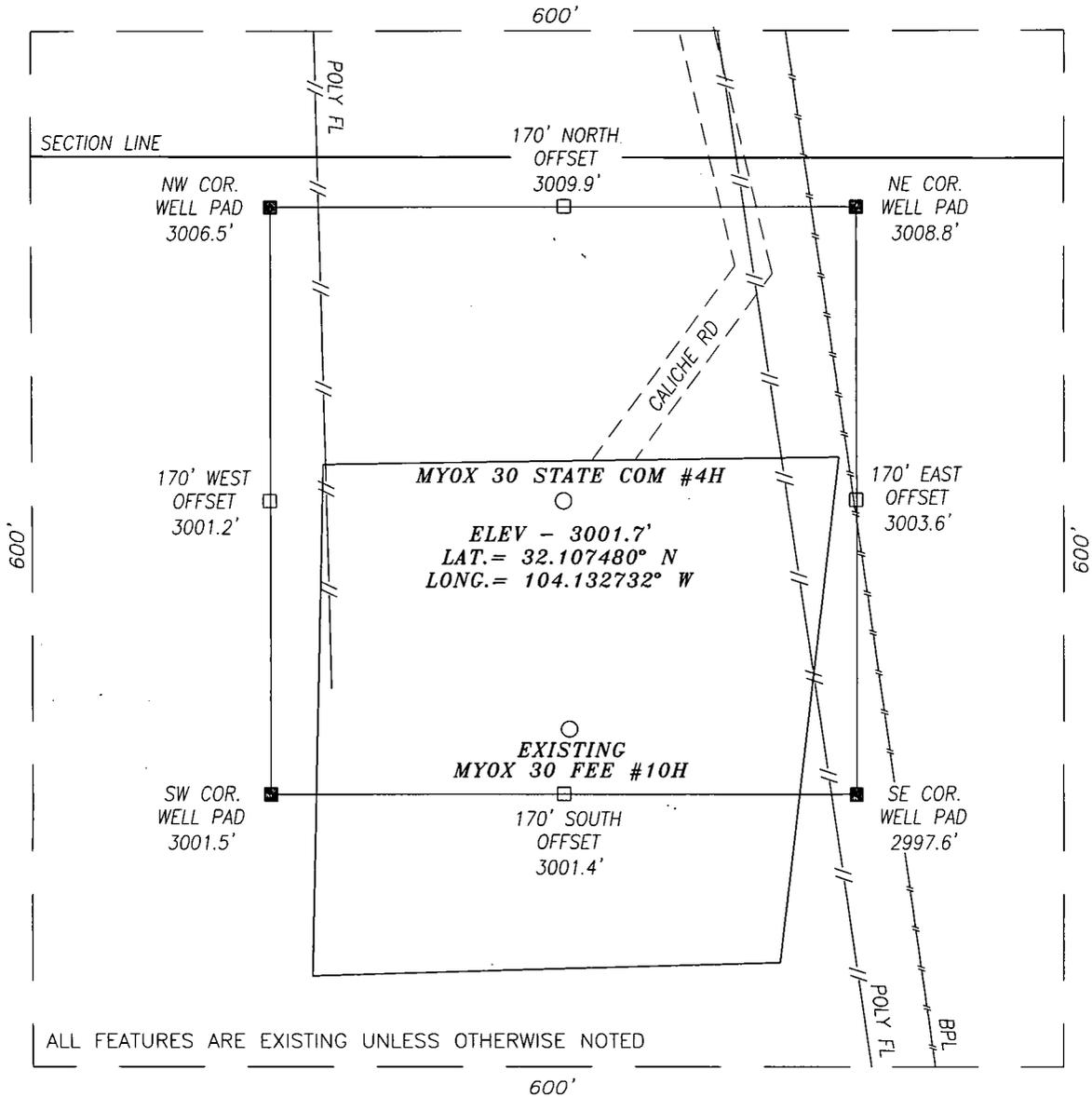
SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 22, 2013
Date of Survey

Signature & Seal of Professional Surveyor

Chad Harcrow 6/11/13
Certificate No. CHAD HARCROW 17777
W.O. # 13-304 DRAWN BY: VD

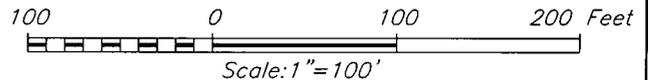
SECTION 30, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.,
 EDDY COUNTY NEW MEXICO



ALL FEATURES ARE EXISTING UNLESS OTHERWISE NOTED

DIRECTIONS TO LOCATION

HEADING SOUTH ON HWY 285 APPROX. 0.9 MILE PAST MILE MARKER 10 TURN RIGHT (WEST) ONTO CALICHE RD AND GO APPROX. 2.6 MILES; THEN TURN LEFT (SOUTHWEST) AND GO APPROX. 0.5 MILE; THEN TURN RIGHT (NORTHWEST) AND GO APPROX. 0.1 MILE; THEN TURN LEFT (SOUTHWEST) AND GO APPROX. 0.2 MILE; THEN TURN LEFT (SOUTH) AND FOLLOW MEANDERING ROAD FOR APPROX. 0.9 MILE; ARRIVING AT EXISTING MYOX 30 FEE #10H WELL PAD; THEN PROPOSED WELL IS 132 FEET NORTH OF EXISTING WELL.

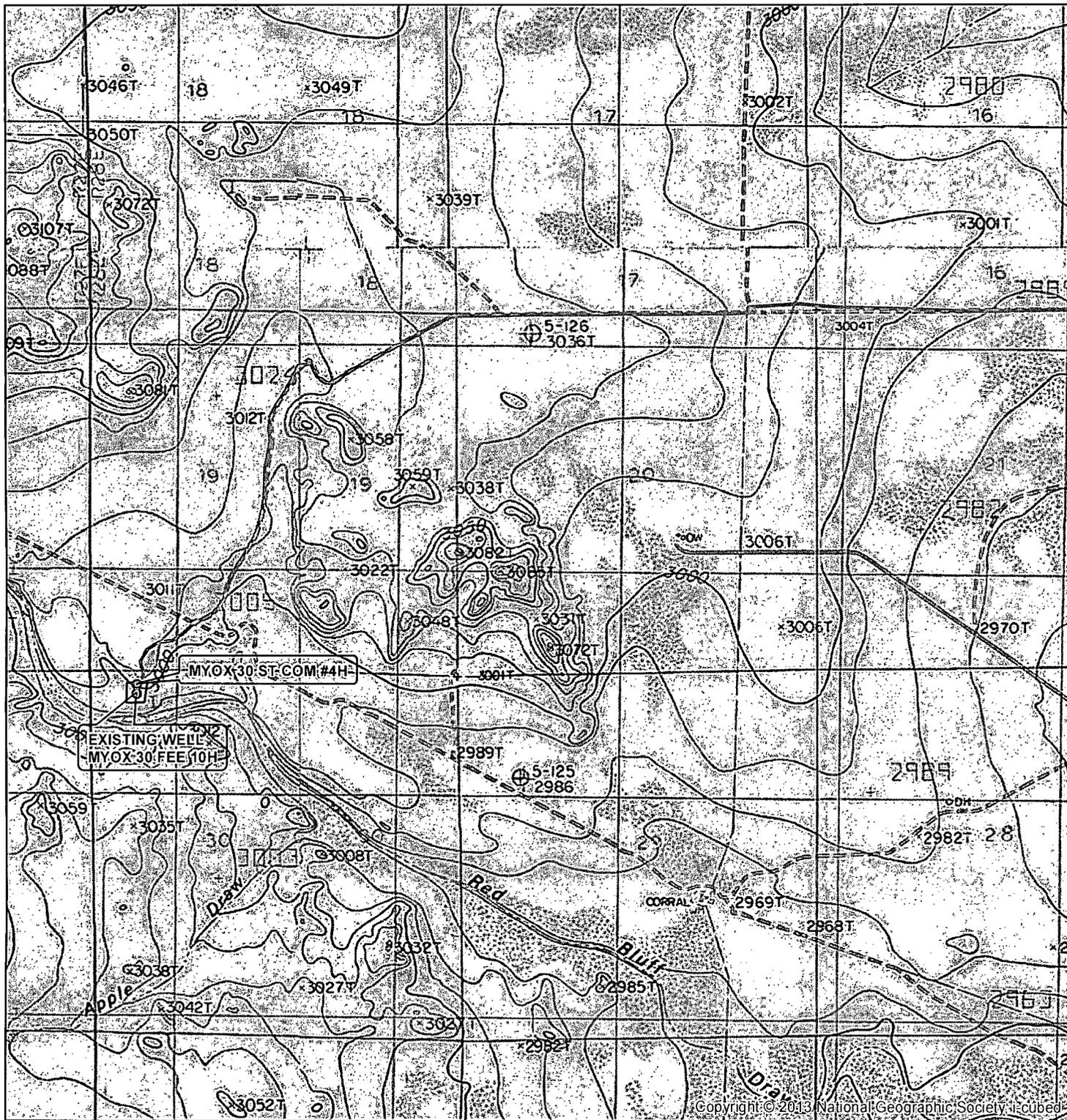


HARCROW SURVEYING, LLC
 1107 WATSON, ARTESIA, N.M. 88210
 PH: (575) 513-2570 FAX: (575) 746-2158
 chad_harcrow77@yahoo.com



COG OPERATING, LLC		
MYOX 30 STATE COM #4H WELL LOCATED 190 FEET FROM THE NORTH LINE AND 660 FEET FROM THE WEST LINE OF SECTION 30, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO		
SURVEY DATE: 05/22/2013	PAGE: 1 OF 1	
DRAFTING DATE: 05/28/2013		
APPROVED BY: CH	DRAWN BY: VD	FILE: 13-304

LOCATION VERIFICATION MAP

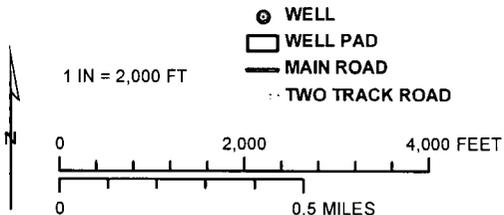


SEC. 30, TWP. 25 S, RGE. 28 E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 30 ST COM #4H

SHL: 190' FNL & 660' FWL
 ELEVATION: 3001.7

OPERATOR: COG OPERATING LLC
 LEASE: MYOX 30 ST COM

W.O. # 13-304

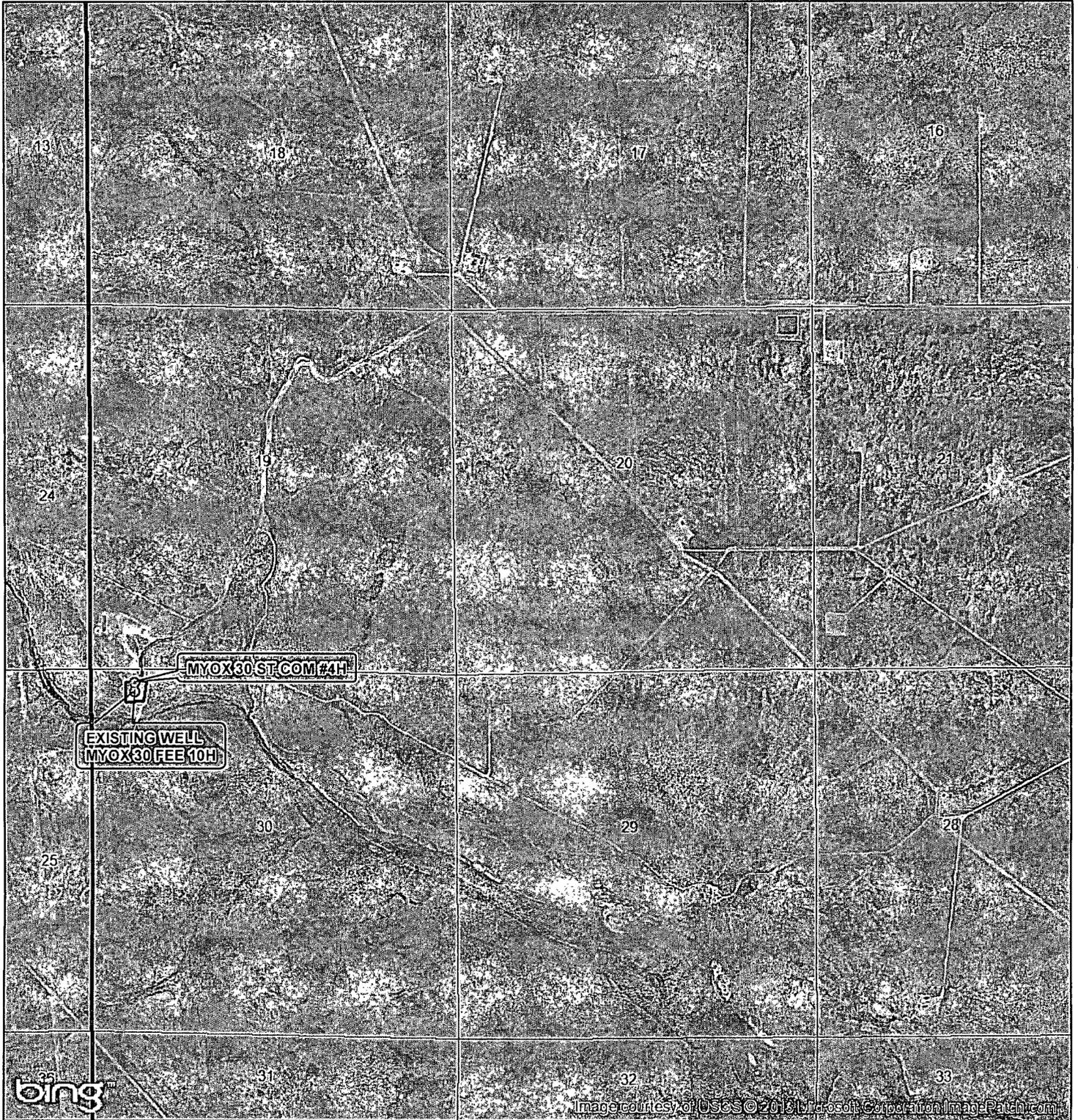


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 1107 WATSON, ARTESIA N.M. 88210
 PH: (575) 513-2570 FAX: (575) 746-2158
 chad_harcrow77@yahoo.com



MAP DATE: 5/29/2013

LOCATION VERIFICATION MAP

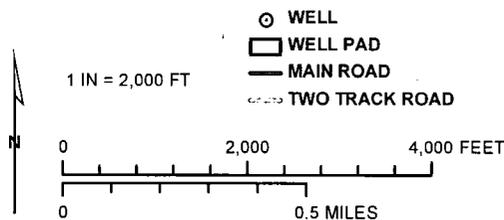


SEC. 30, TWP. 25 S, RGE. 28 E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 30 ST COM #4H

SHL: 190' FNL & 660' FWL
 ELEVATION: 3001.7

OPERATOR: COG OPERATING LLC
 LEASE: MYOX 30 ST COM

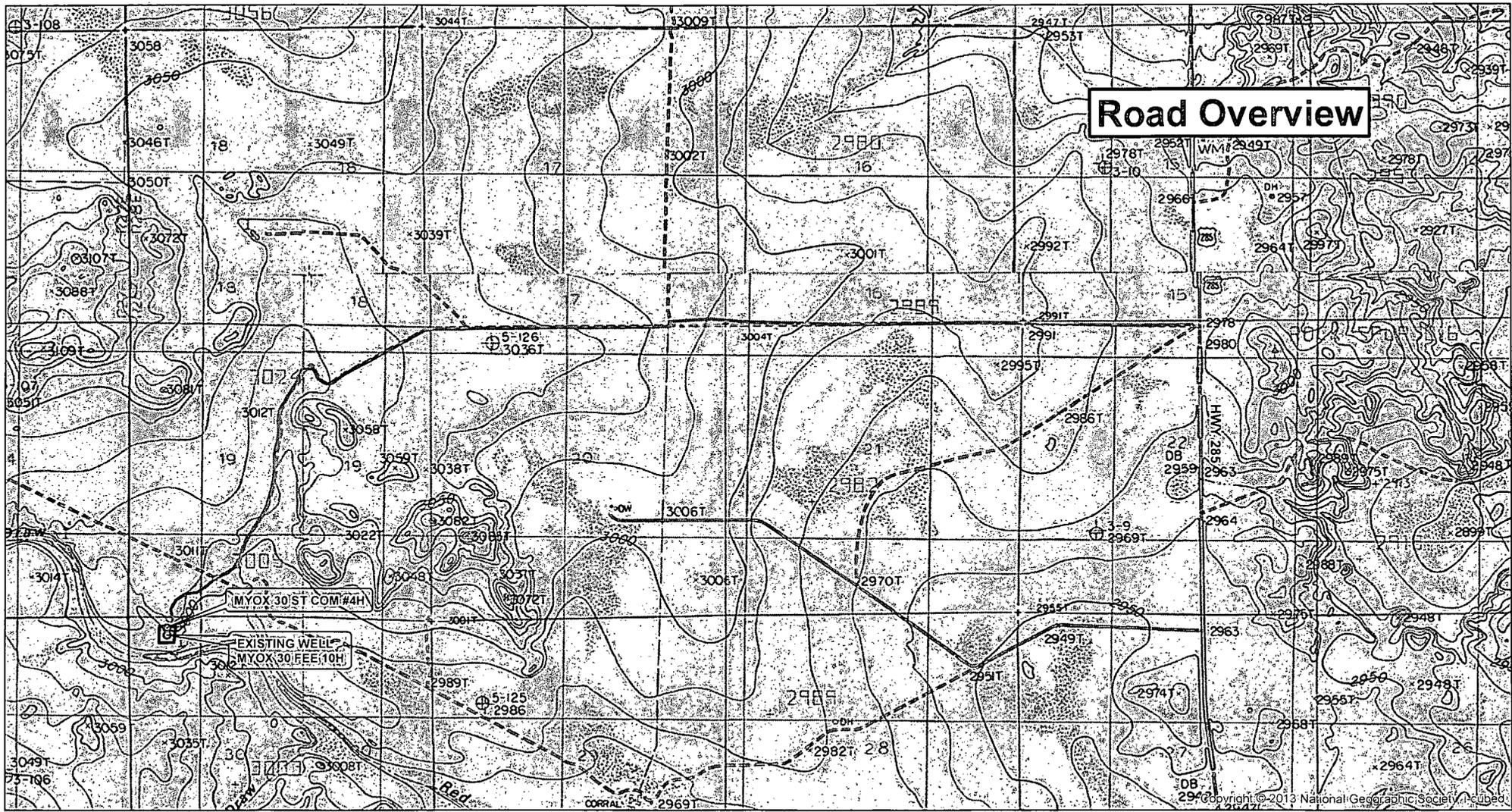
W.O. # 13-304



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



MAP DATE: 5/29/2013



Road Overview

SEC. 30, TWP. 25 S., RGE. 28 E.
 SURVEY: N.M.P.M.
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 30 ST COM #4H
 ELEVATION: 3001.7

OPERATOR: COG OPERATING LLC
 LEASE: MYOX 30 ST COM

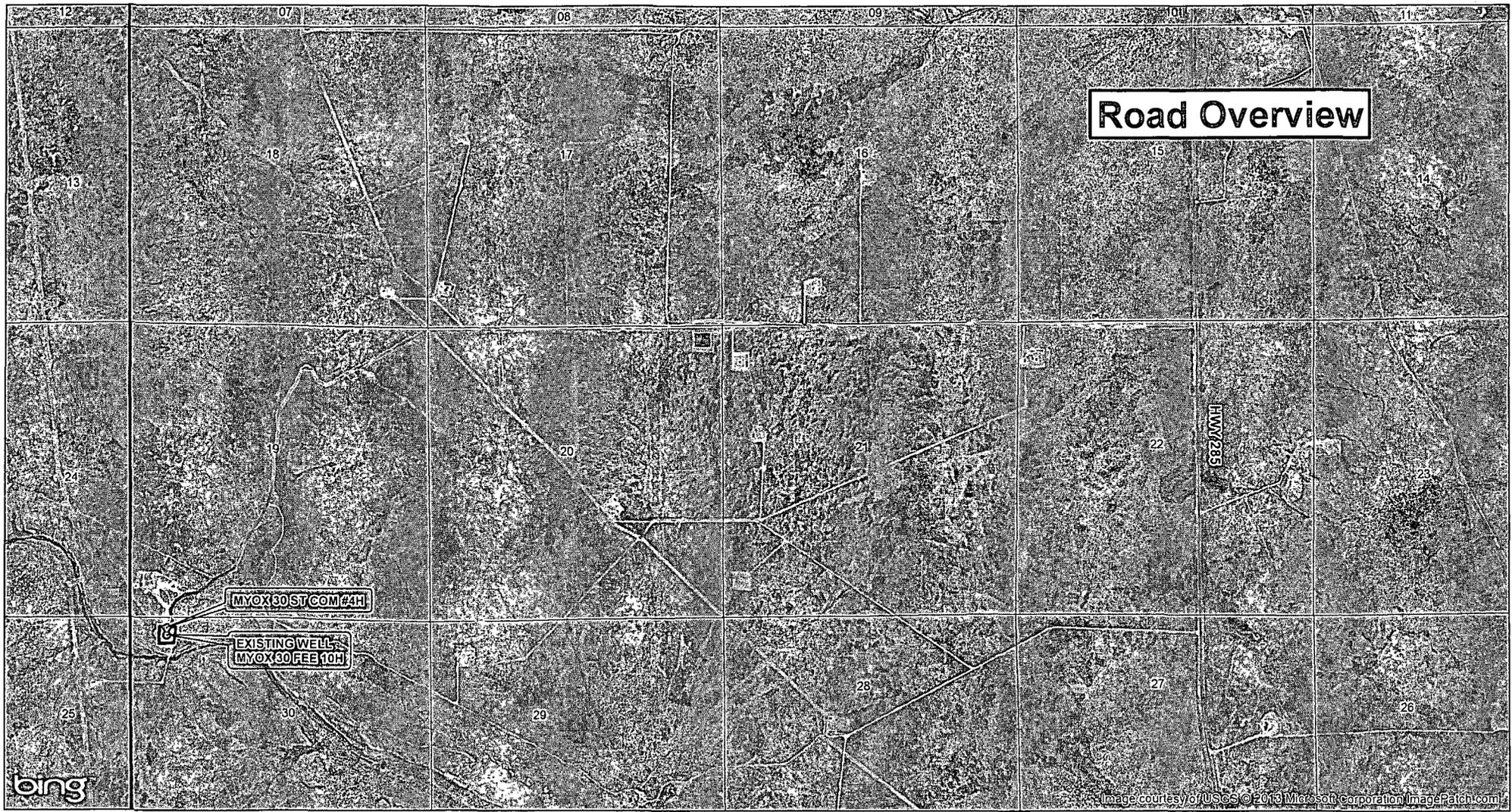
W.O. # 13-304



- MAIN ROAD
- - - PROPOSED ROAD
- WELL
- WELLPAD

HARLOW SURVEYING, L.L.C.
 180 WATSON, ARTESIA, N.M. 88199
 PH: 575.913.2570 FAX: 575.716.2158
 rhad_harlow@att.net





Road Overview

MYOX 30 ST COM #4H

EXISTING WELL
MYOX 30 FEE 10H

HWY 283

bing

Image courtesy of USGS © 2013 Microsoft Corporation ImagePatch.com

SEC. 30, TWP. 25 S., RGE. 28 E.
SURVEY: N.M.P.M.
COUNTY: EDDY STATE: NEW MEXICO
DESCRIPTION: MYOX 30 ST COM #4H

OPERATOR: COG OPERATING LLC
LEASE: MYOX 30 ST COM

W.O. # 13-304



1 IN = 2,000 FT

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

HARBOR SURVEYING, L.L.C.
1017 WATSON, ARTESIA, N.M. 88201
PH: 505-913-2150 FAX: 505-746-2150
rlad_harbor@msn.com



MAP DATE: 5/20/2013

Permit Conditions of Approval

API: 30-0 15-41737

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