

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 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 40178		Well No 4H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
1/D	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; Abeth	Pool Code 30215
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Additional Well Information

Work Type New Well	Well Type Oil	Cable/Rotary	Lease Type State	Ground Level Elevation 3001.7
Multiple N	Proposed Depth 17686'	Formation Bone Spring	Contractor	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:

T. C. Shepard

Title:

"Geologist"

Approved Date: 10/16/2013

Expiration Date: 10/16/2015

Conditions of Approval Attached

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

DISTRICT II
1391 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) 334-8170

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

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- 41737	Pool Code 30215	Pool Name Hay Hollow; Bone Spring, North
Property Code 40178	Property Name MYOX 30 STATE COM	Well Number 4H
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
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

<p>NAD 27 <u>SURFACE LOCATION</u> Y=402882.2 N X=562112.7 E LAT.=32.107480° N LONG.=104.132732° W</p>	<p>190' S.L. LOT 1 40.93 Ac LOT 2 40.72 Ac LOT 3 40.71 Ac LOT 4 41.10 Ac As per SLO 40.35 Ac As per SLO 40.33 Ac As per SLO 40.28 Ac As per SLO 40.20 Ac As per SLO 40.12 Ac As per SLO 40.04 Ac</p>	<p>SECTION 30 SECTION 31</p>	<p>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> 10/15/13 Signature Date <i>Melanie Parker</i> Printed Name <i>mparker@concho.com</i> E-mail Address</p>
<p>NAD 27 <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=392781.0 N X=562165.3 E LAT.=32.079712° N LONG.=104.132623° W</p>	<p>GRID AZ LOT 1 41.24 Ac LOT 2 40.91 Ac LOT 3 40.69 Ac LOT 4 40.91 Ac As per SLO 40.04 Ac</p>		<p>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 <i>Chad L. Harcrow</i> 6/11/13 Certificate No. CHAD HARCROW 17777 W.O. # 13-304 DRAWN BY: VD</p>

NEW MEXICO

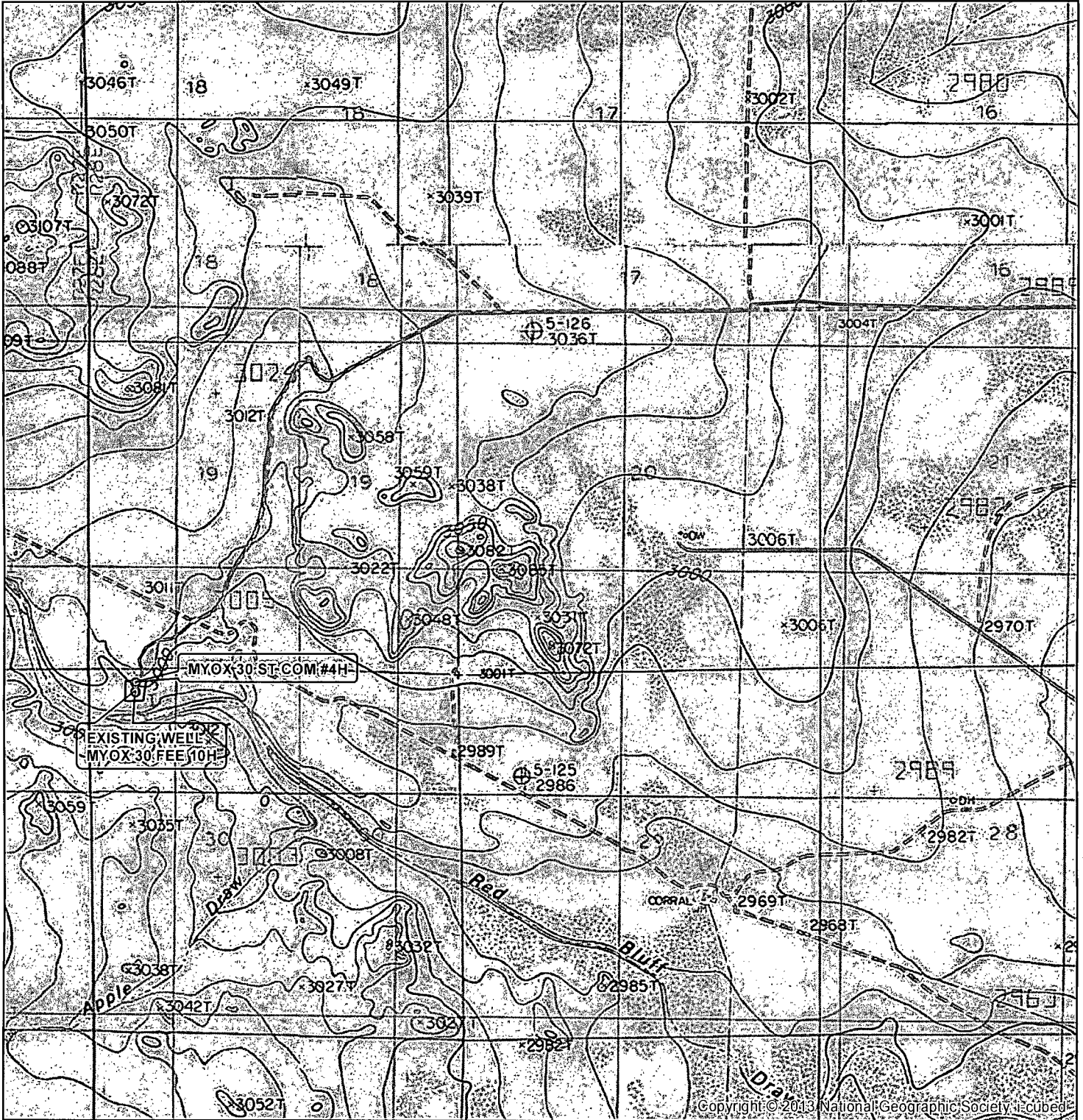


100 0 100 200 Feet

Scale: 1" = 100'

FILE: 13-304

LOCATION VERIFICATION MAP



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

W.O. # 13-304

1 IN = 2,000 FT

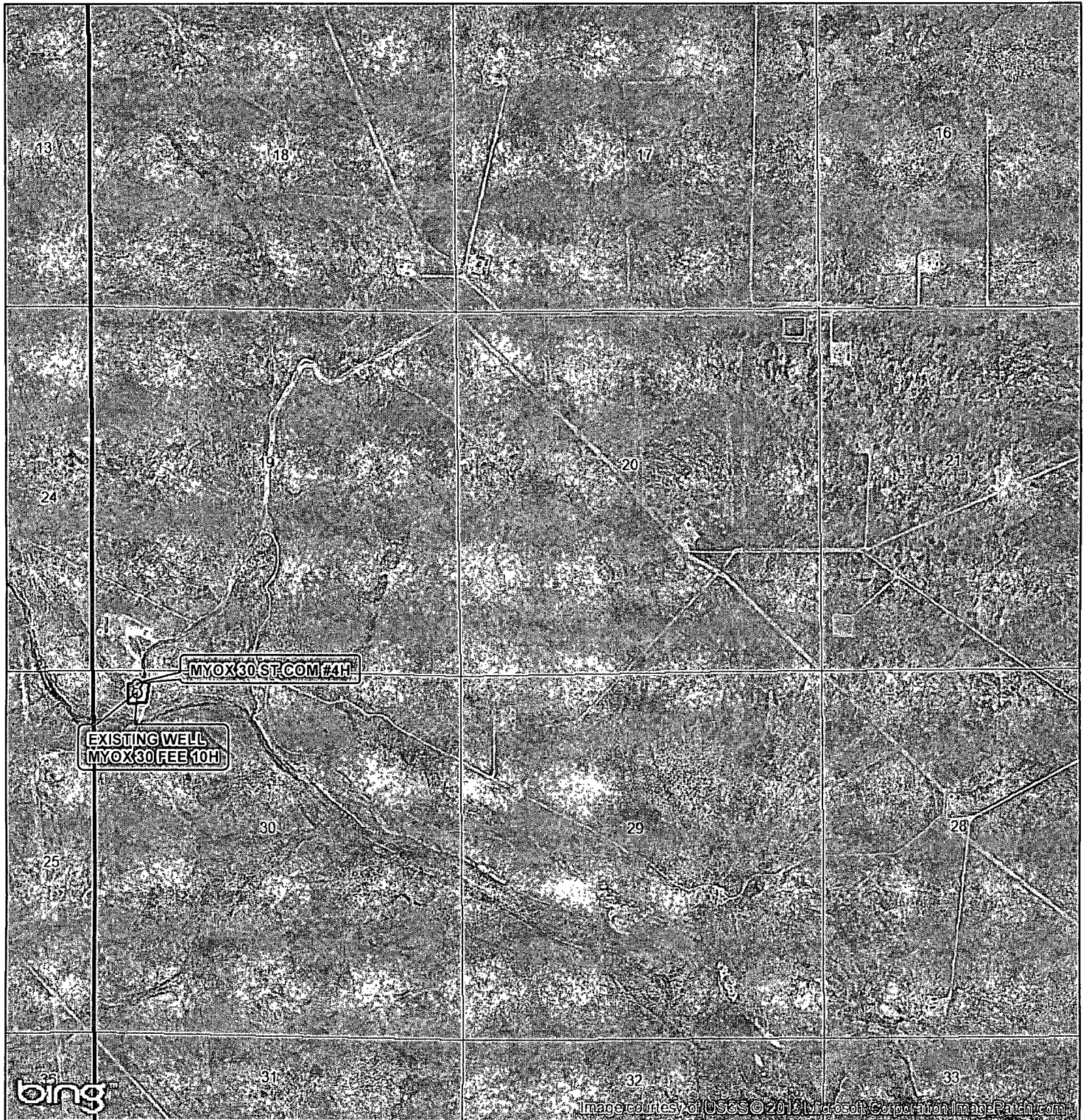
— MAIN ROAD
- - - TWO TRACK ROAD

0 2,000 4,000 FEET

0 0.5 MILES

MAP DATE: 5/29/2013

LOCATION VERIFICATION MAP

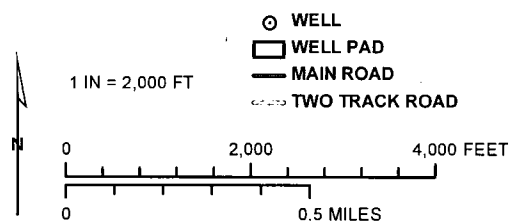


SEC. 30, TWP. 25 S, RGE. 28 E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 30 ST COM #4H

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

OPERATOR: COG OPERATING LLC
 LEASE: MYOX 30 ST COM

W.O. # 13-304

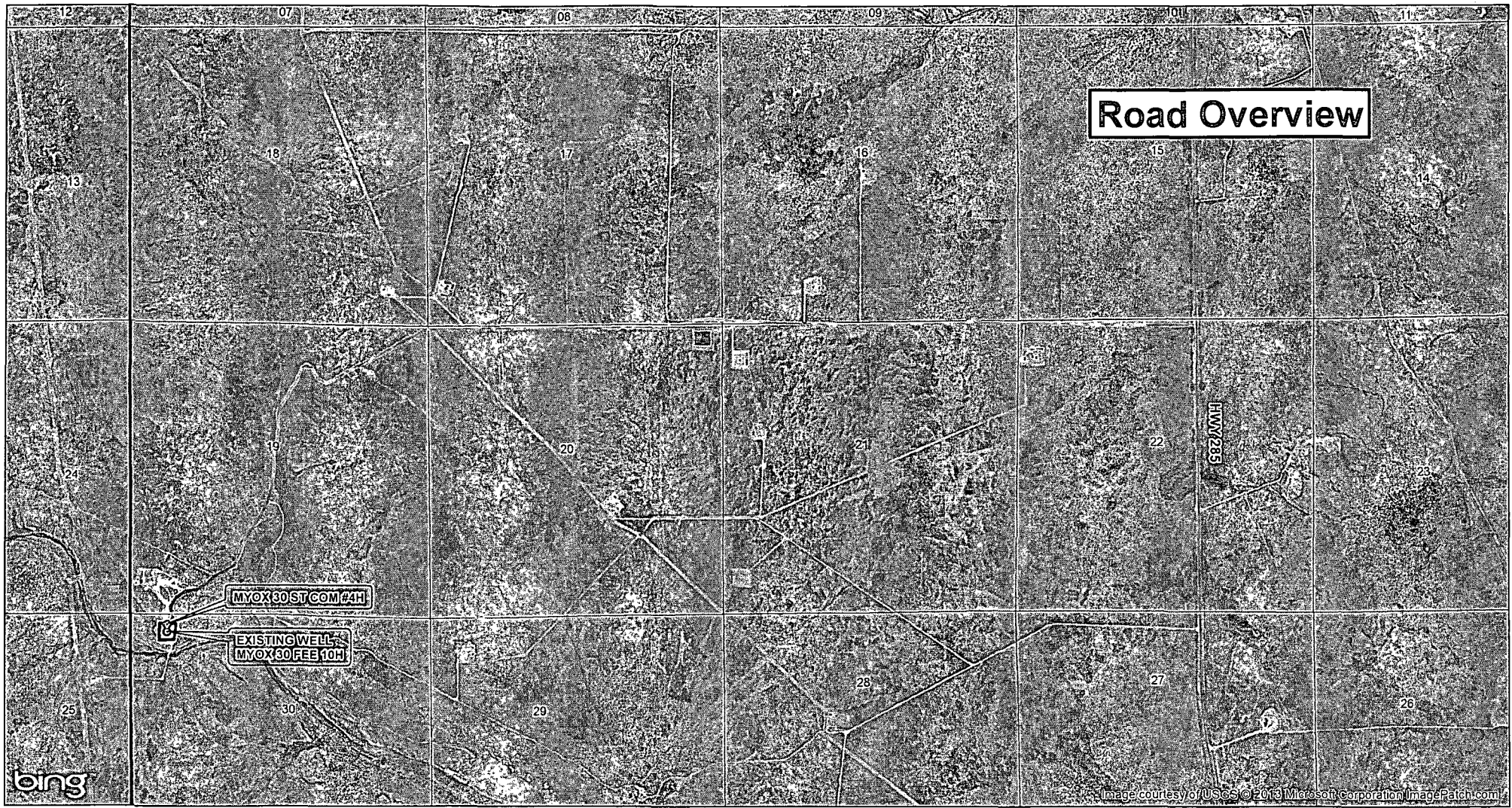


○ WELL
 □ WELL PAD
 — MAIN ROAD
 — TWO TRACK ROAD

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

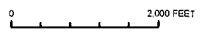
MYOX 30 ST COM #4H

EXISTING WELL
MYOX 30 FEB 10H

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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 WYOMING AVENUE, SUITE 400
PH: (575) 913-2150 FAX: (575) 746-2150
rhod_harbor@yahoo.com



MAP DATE: 5/20/2013

Permit Conditions of Approval

API: 30-015-41737

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