

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

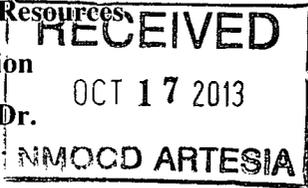
State of New Mexico

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 38521		4. Well No IH
5. Property Name Myox 21 State Com		6. API Number 30-015-41745

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	21	25S	28E	M	190	South	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
D	16	25S	28E	D	330	North	660	West	Eddy

9. Pool Information

Red Bluff Bone Spring	San Lorenzo; B.S.	Pool Name	Pool Code 30990
			53660

Additional Well Information

11. Work Type New Well	12. Well Type Oil	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2991.9
16. Multiple N	17. Proposed Depth 17958	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	350	365	
Intrmd	12.25	9.625	36	2360	810	
Production	7.875	5.5	17	17958	3030	2060

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 ~2360' 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 17958' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement in one stage bringing TOC to 2060' (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: 10/16/2013

Phone: 575-748-6945

OIL CONSERVATION DIVISION

Approved By:

T. C. Shepard

Title:

"Geologist"

Approved Date: 10/17/2013

Expiration Date: 10/17/2015

Conditions of Approval Attached

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6181 Fax: (575) 393-0720

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) 334-6178 Fax: (505) 334-6170

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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- 41745	Pool Code 50990	Pool Name SAN LORENZO Red Bluff; Bone Spring
Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 1H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2991.9

Surface Location

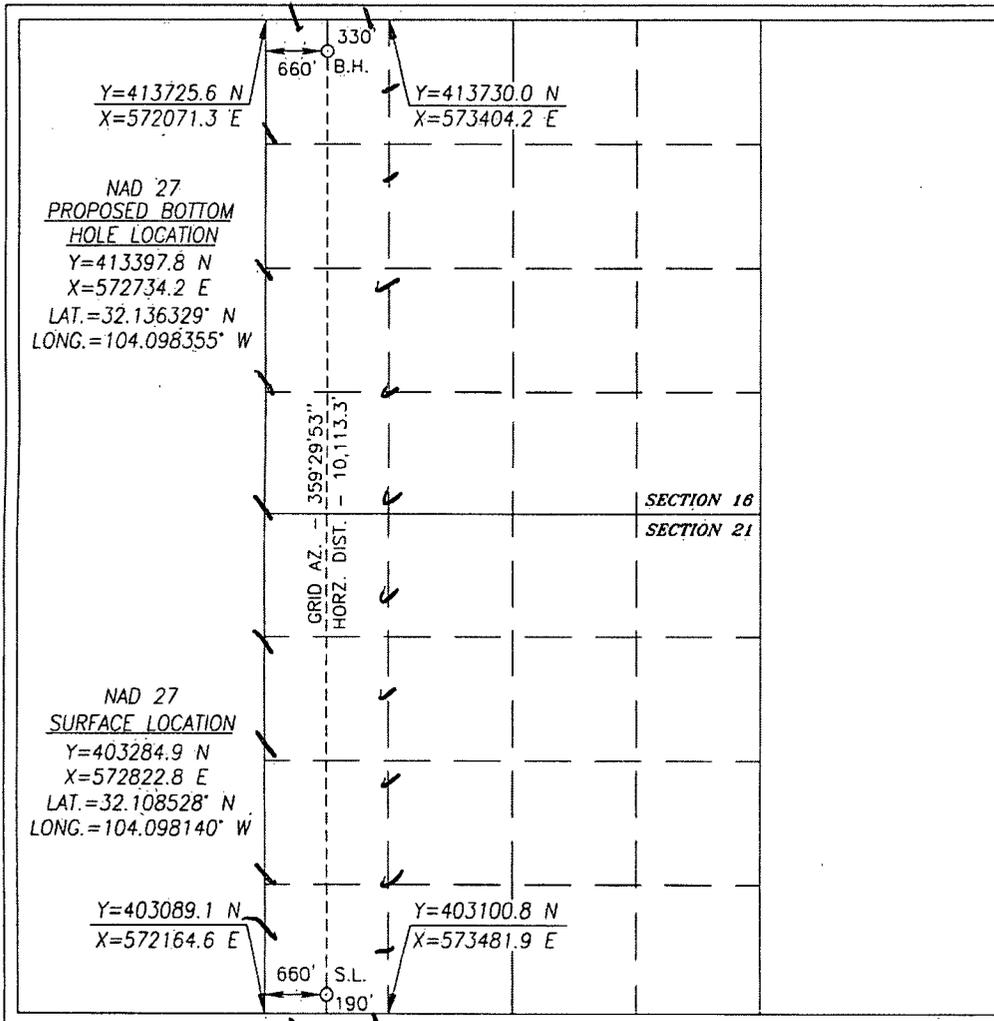
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	25-S	28-E		190	SOUTH	660	WEST	EDDY

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
D	16	25-S	28-E		330	NORTH	660	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

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 10/16/13
Signature Date
Printed Name
mparker@concho.com
E-mail Address

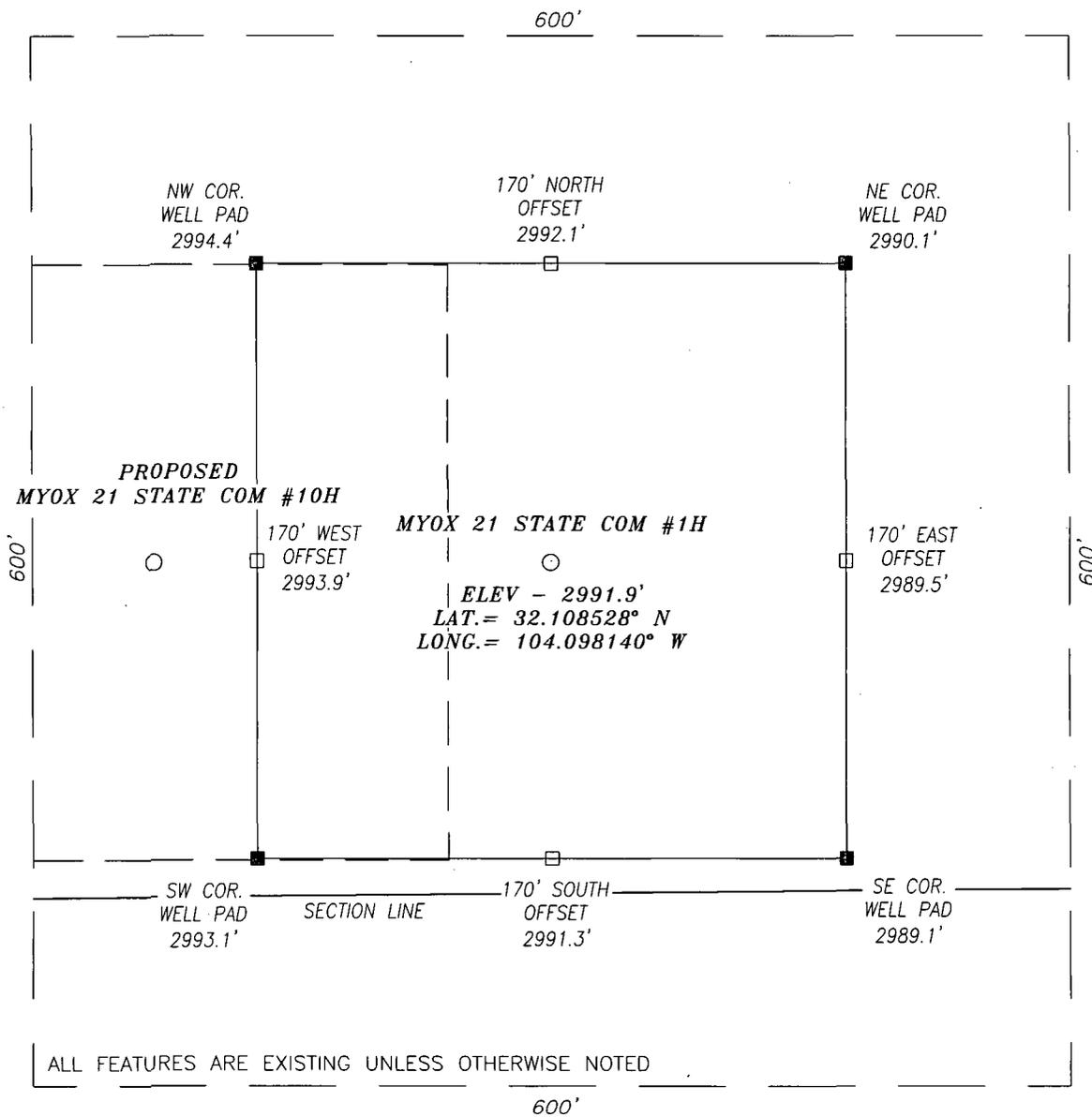
SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 15, 2013
Date of Survey

Signature & Seal of Professional Surveyor

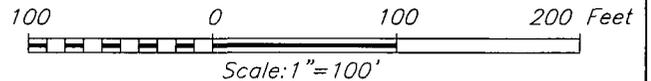
Chad Harcrow 5/30/13
Certificate No. CHAD HARCROW 17777
W.O. # 13-297 DRAWN BY: VD

SECTION 21, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.,
 EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

TRAVELING SOUTH ON 285 APPROX. 0.9 MILE PAST MILE MARKER 9 TURN RIGHT (WEST) ONTO A CALICHE RD AND GO APPROX 0.5 MILE; THEN TURN LEFT (SOUTHWEST) AND GO APPROX. 0.3 MILE; THEN TURN RIGHT (NORTHWEST) AND GO APPROX. 0.8 MILE; THEN TURN LEFT (SOUTHWEST) AND GO APPROX. 0.2 MILE TO THE EXISTING MYOX 21 ST #9H WELL PAD; GO TO SOUTHEAST PAD CORNER AND PROPOSED WELL IS 345 FEET SOUTHEAST.

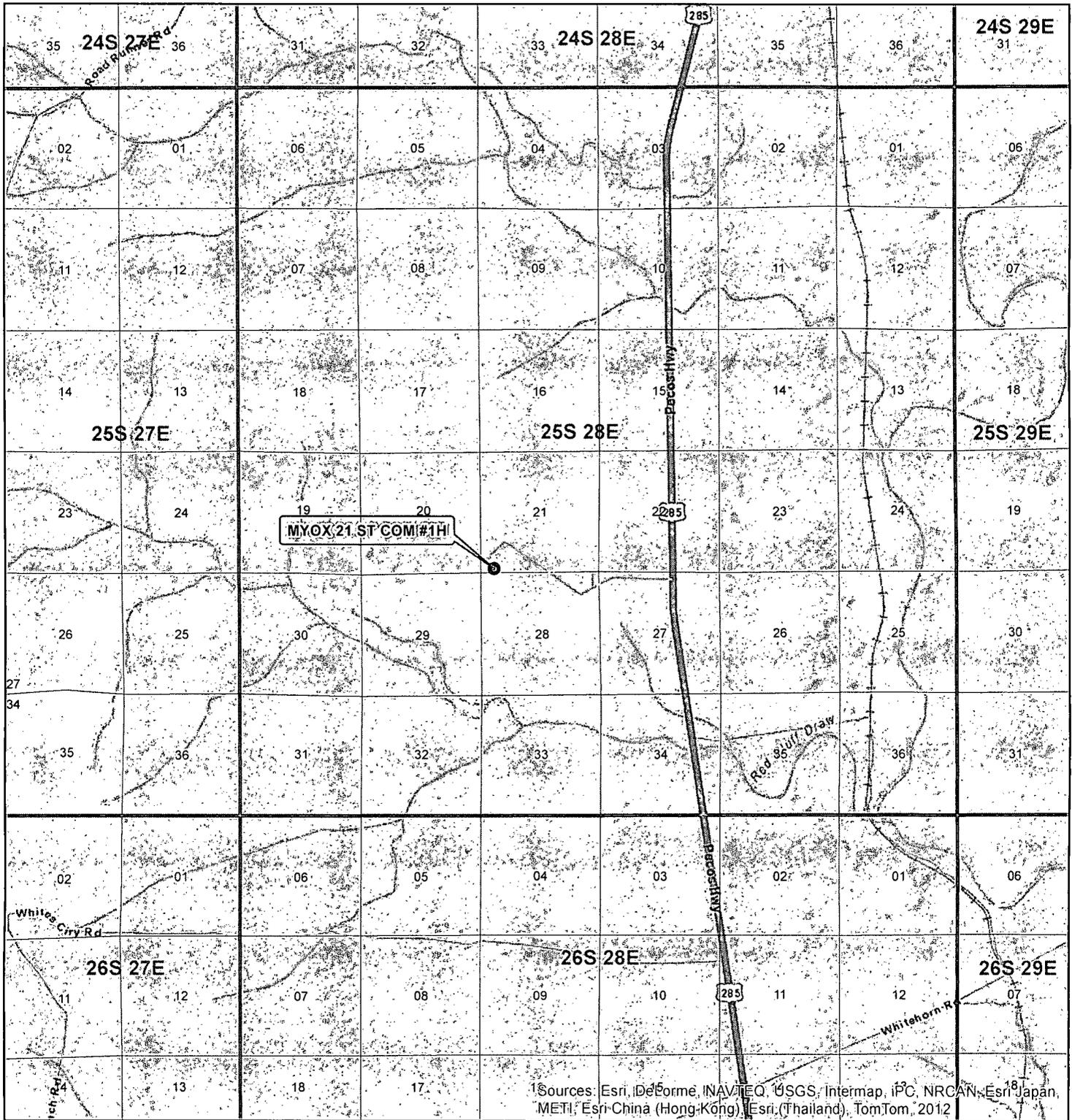


HARCROW SURVEYING, LLC
 1107 WATSON, ARTESIA, N.M. 88210
 PH: (575) 513-2570 FAX: (575) 746-2158
 chad_harcrow77@yahoo.com



COG OPERATING, LLC	
MYOX 21 STATE COM #1H WELL LOCATED 190 FEET FROM THE SOUTH LINE AND 660 FEET FROM THE WEST LINE OF SECTION 21, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO	
SURVEY DATE: 05/15/2013	PAGE: 1 OF 1
DRAFTING DATE: 05/21/2013	
APPROVED BY: CH	DRAWN BY: VD FILE: 13-297

VICINITY MAP



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri-China (Hong-Kong), Esri-Thailand, TomTom, 2012

SEC. 21, TWP. 25S, RGE. 28E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 21 ST COM #1H
 190' FSL, 660' FWL

ELEVATION: 2991.9'
 OPERATOR: COG OPERATING LLC
 LEASE: MYOX 21 ST COM

W.O. # 13-297



1 IN = 6,000 FT

0 0.5 1 1.5 2 MILES

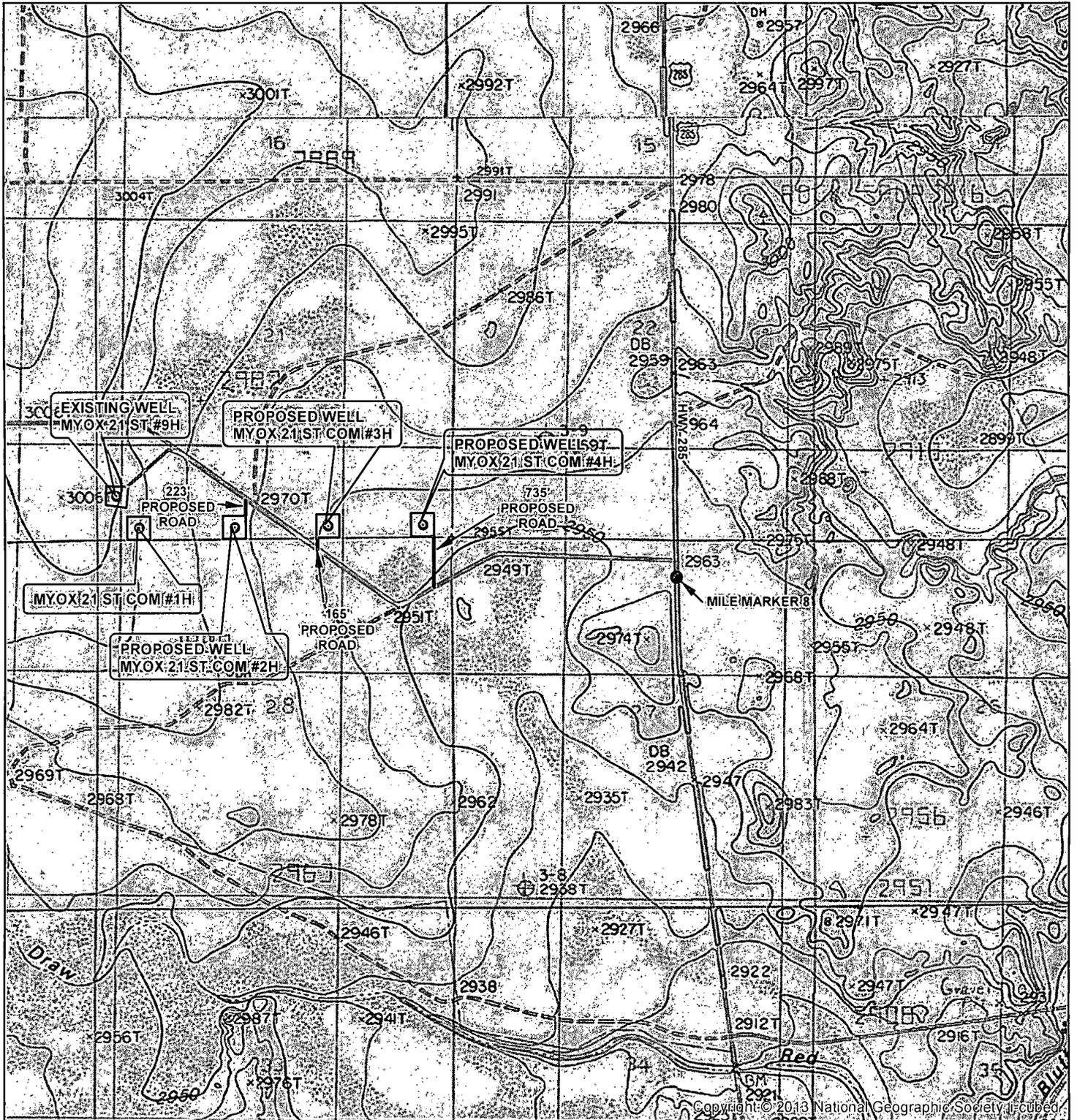
- WELL
- TOWNSHIP
- SECTION

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



MAP DATE: 5/21/2013

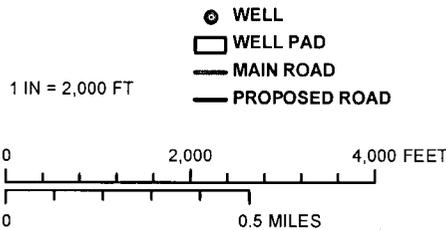
LOCATION VERIFICATION MAP



SEC. 21, TWP. 25S, RGE. 28E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 21 ST COM #1H
 190' FSL, 660' FWL

ELEVATION: 2991.9'
 OPERATOR: COG OPERATING LLC
 LEASE: MYOX 21 ST COM

W.O. # 13-297

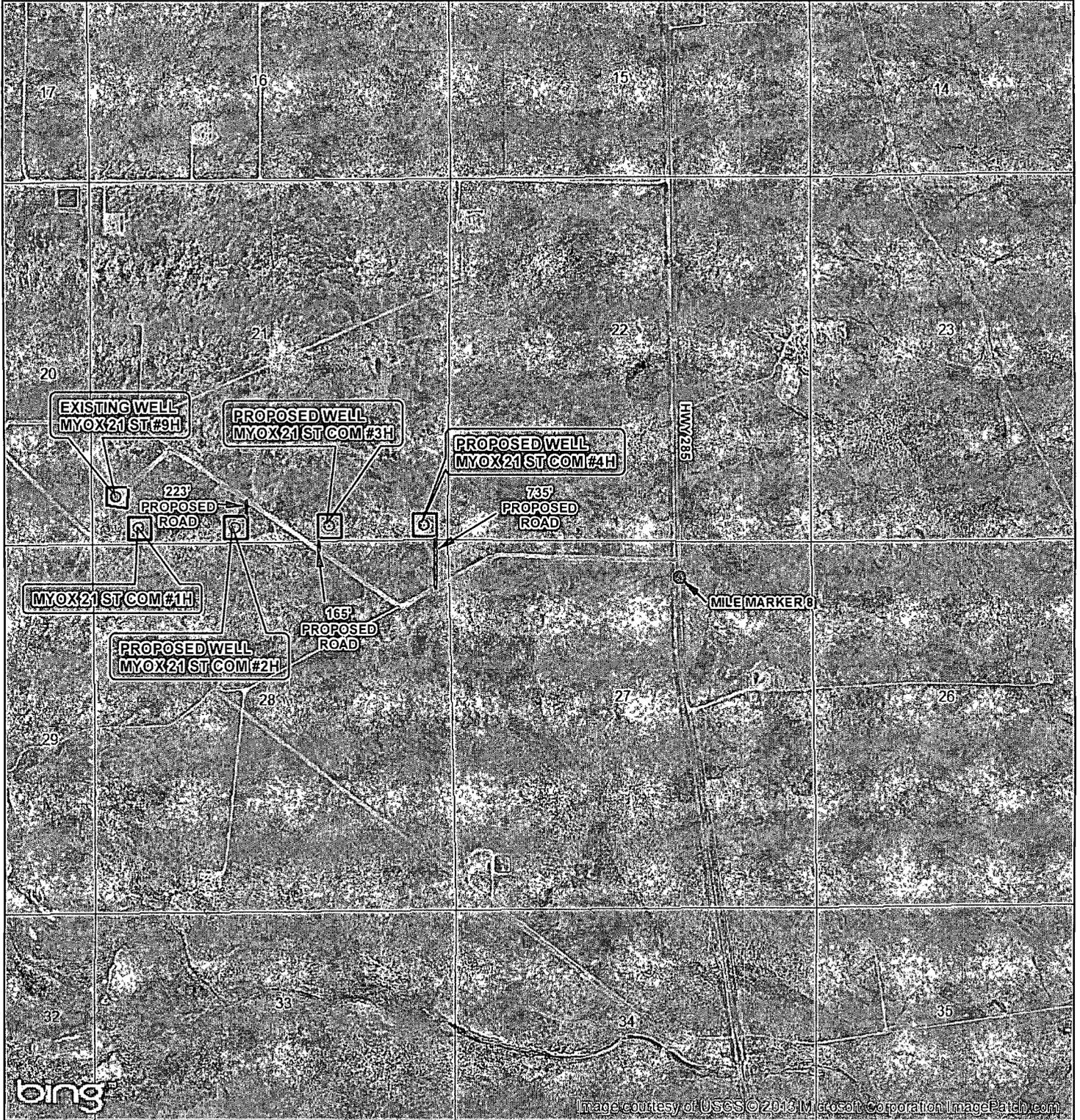


HARCROW SURVEYING, LLC
 1107 WATSON, ARTESIA N.M. 88210
 PH: (575) 313-2570 FAX: (575) 746-2158
 chad_harcrow77@yahoo.com



MAP DATE: 5/21/2013

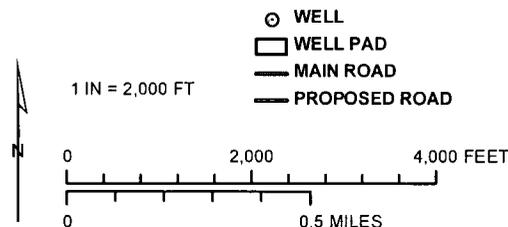
LOCATION VERIFICATION MAP



SEC. 21, TWP. 25S, RGE. 28E
 SURVEY: N.M.P.M
 COUNTY: EDDY STATE: NEW MEXICO
 DESCRIPTION: MYOX 21 ST COM #1H
 190' FSL, 660' FWL

ELEVATION: 2991.9'
 OPERATOR: COG OPERATING LLC
 LEASE: MYOX 21 ST COM

W.O. # 13-297



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



MAP DATE: 5/21/2013