

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-8161 Fax: (505) 393-9720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., 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 & 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 30-025- 47280	Pool Code 96434	Pool Name Red Hills; Bone Spring, North
Property Code 316278	Property Name SOMBRERO FEDERAL COM	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3474.8

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	13	24-S	34-E		460'	SOUTH	380'	WEST	LEA

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
L	12	24-S	34-E		2310'	SOUTH	380'	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240			

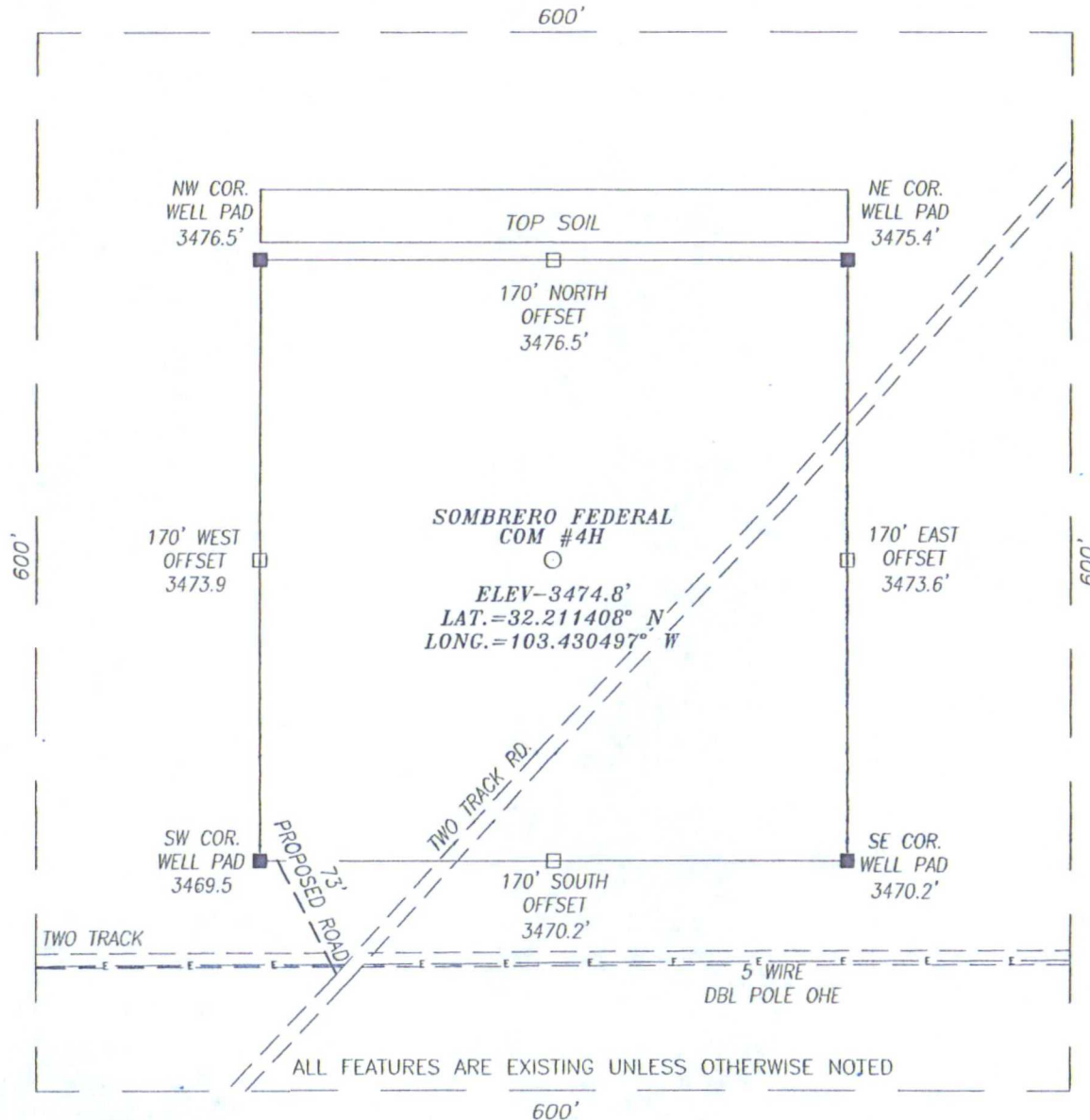
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

HOBBS OCD JUN 06 2016 RECEIVED	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. Signature <u>Melanie J Wilson</u> Date <u>7/6/15</u> Printed Name Melanie J Wilson E-mail Address mwilson@concho.com 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. DECEMBER 30, 2014 Date of Survey Signature & Seal of Professional Surveyor  <u>Chad Harcrow</u> 01/26/15 Certificate No. CHAD HARCROW 17777 W.O. # 14-1304 DRAWN BY: AF
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SECTION 13, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.,

LEA COUNTY

NEW MEXICO



DIRECTIONS TO LOCATION

HEADING EAST ON HWY 128 TURN LEFT (NORTHEAST) APPROX. 0.3 MILES PAST MILEMARKER 36 ONTO A TWO TRACK ROAD; THEN GO APPROX. 0.5 MILES ALONG TWO TRACK; THEN PROPOSED WELL IS APPROX. 270' NORTH.

HARCROW SURVEYING, LLC

2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
c.harcrow@harcrowsurveying.com



CERTIFICATION

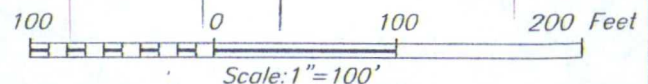
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



Chad Harcrow

CHAD HARCROW N.M.P.S. NO. 17777

4/5/16
DATE



COG OPERATING, LLC

SOMBRERO FEDERAL COM #4H WELL
LOCATED 460 FEET FROM THE SOUTH LINE
AND 350 FEET FROM THE WEST LINE OF SECTION 13,
TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: 12/30/2014

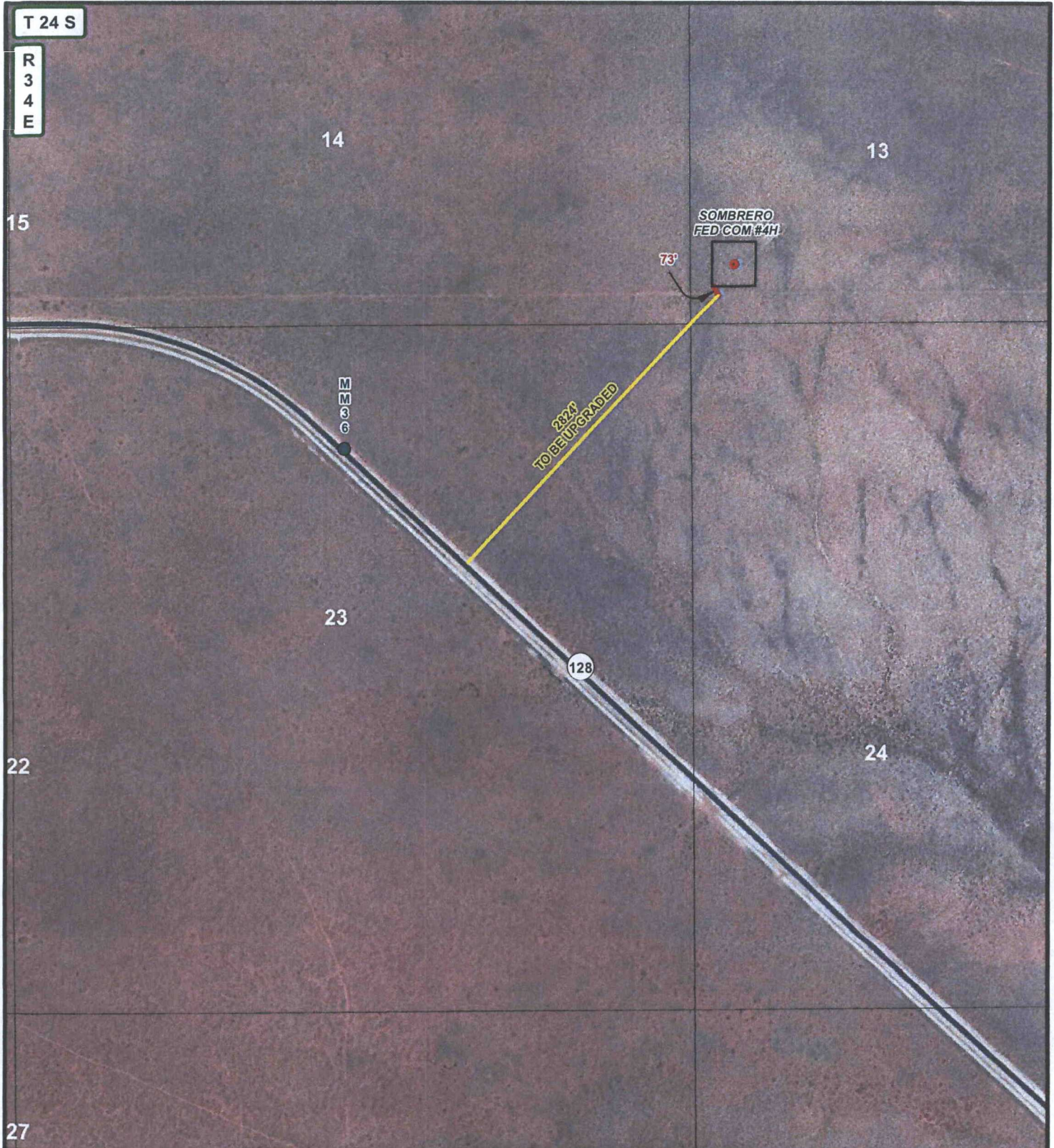
PAGE: 1 OF 1

DRAFTING DATE: 1/26/2015

APPROVED BY: CH

DRAWN BY: AF

FILE: 14-1304



T 24 S
R 34 E

LEGEND

- WELL
- WELLPAD
- PROPOSED ROAD
- TWO-TRACK ROAD

SOMBRERO FEDERAL COM #4H

SEC: 13	TWP: 24 S.	RGE: 34 E.	ELEVATION: 3474.8'
STATE: NEW MEXICO		COUNTY: LEA	460' FSL & 380' FWL
W.O. # 14-1304		LEASE: SOMBRERO FED COM	SURVEY: N.M.P.M

0 0.05 0.1 0.2 Miles

0 0.5 1 1.5 2 2.5 2,500 FEET

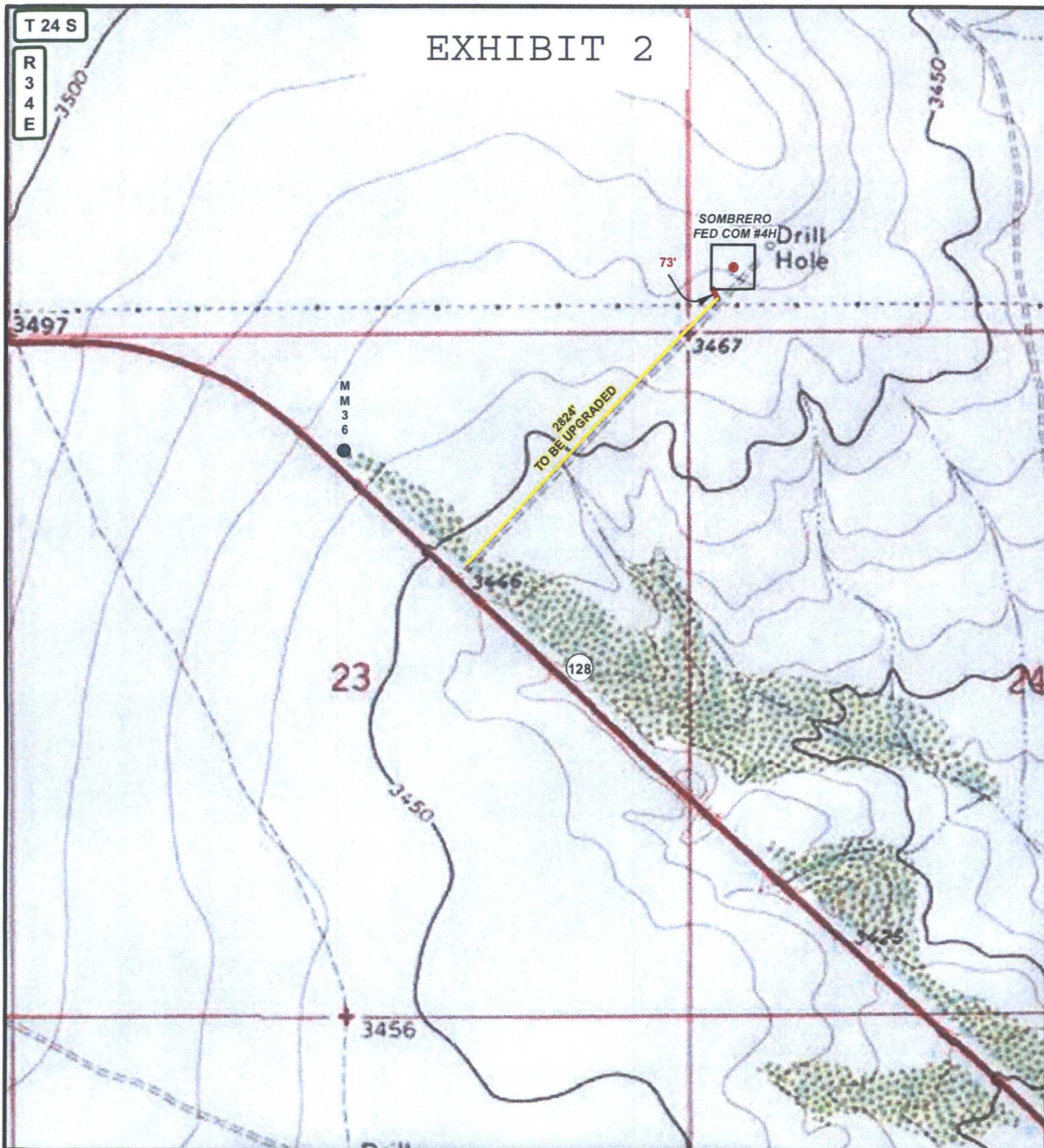
1 IN = 1,000 FT

LOCATION MAP IMAGERY 01/20/2015 A.F

CONCHO
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c.harcrow@harcrowsurveying.com

EXHIBIT 2



LEGEND

- WELL
- WELLPAD
- PROPOSED ROAD
- TWO-TRACK ROAD

SOMBRERO FEDERAL COM #4H

SEC: 13 TWP: 24 S. RGE: 34 E. ELEVATION: 3474.8'
 STATE: NEW MEXICO COUNTY: LEA 460' FSL & 380' FWL
 W.O. # 14-1304 LEASE: SOMBRERO FED COM SURVEY: N.M.P.M



LOCATION MAP

TOPO

01/20/2015

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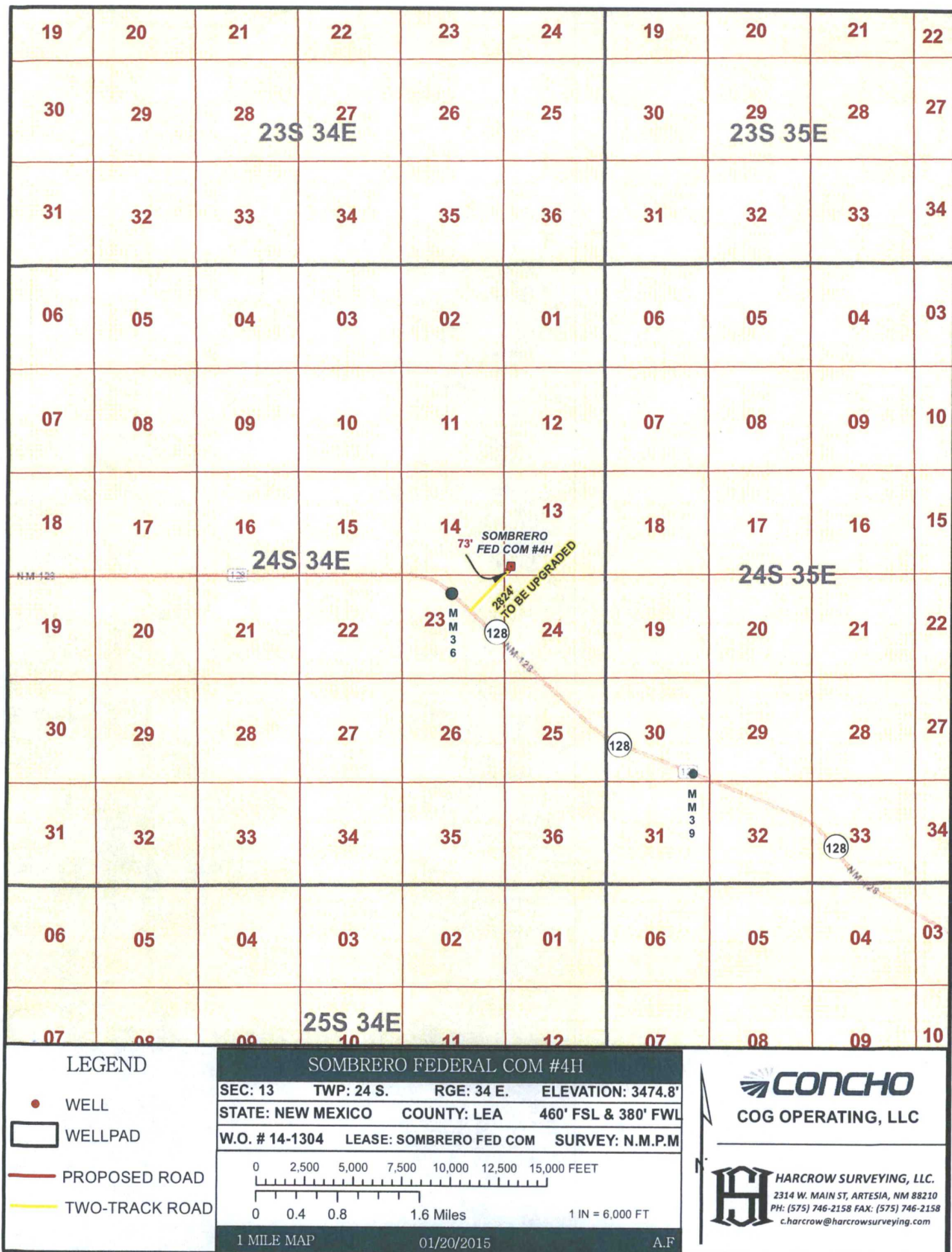
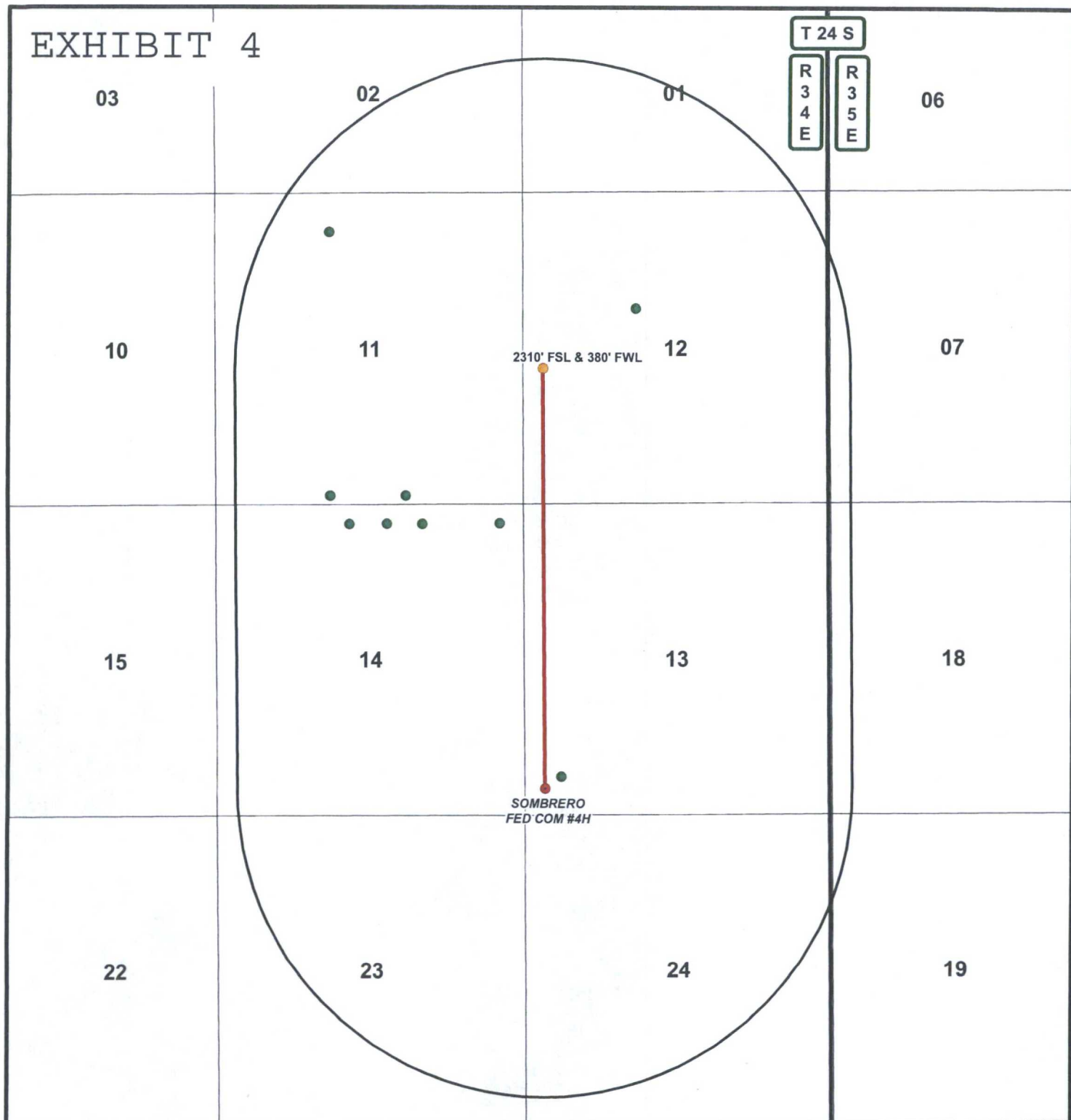


EXHIBIT 4



DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH JANUARY 12, 2015.

LEGEND

- WELL
- BOTTOMHOLE
- WELLS WITHIN 1 MI.
- 1 MI. BUFFER

SOMBRERO FEDERAL COM #4H

SEC: 13 TWP: 24 S. RGE: 34 E. ELEVATION: 3474.8'
 STATE: NEW MEXICO COUNTY: LEA 460' FSL & 380' FWL
 W.O. # 14-1304 LEASE: SOMBRERO FED COM SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.15 0.3 0.6 Miles

1 IN = 2,250 FT

1 MILE MAP

01/20/2015

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Sombrero Federal Com #4H

FID	Shape *	OPERATOR	WELL_NAME	LATITUDE	LONGITUDE	API	SECTION	TOWNSHIP	RANGE	FTG_NS	NS_CD	FTG_EW	EW_CD	TVD_DEPTH	COMPL_STAT
0	Point	E P CAMPBELL	JOHNSON FEDERAL 001	32.212101	-103.430056	3002508492	13	24.0S	34E	660	S	660	W	6455	Plugged
1	Point	PENROC OIL CORP	MADERA COM 001	32.237528	-103.442838	3002524514	11	24.0S	34E	660	N	1980	W	14100	Plugged
2	Point	HANAGAN PETROLEUM CORP	SALAZAR 001	32.233902	-103.425781	3002524791	12	24.0S	34E	1980	N	1980	W	101	Plugged
3	Point	COG OPERATING LLC	VAN GOGH FEE 001H	32.225226	-103.442835	3002541108	11	24.0S	34E	150	S	1980	W	0	New (Not drilled or compl)
4	Point	COG OPERATING LLC	VAN GOGH FEE 002H	32.225223	-103.438641	3002541109	11	24.0S	34E	150	S	1980	E	0	New (Not drilled or compl)
5	Point	CHEVRON U S A INC	GRAMMA RIDGE 14 24 34 005H	32.223906	-103.441763	3002542059	14	24.0S	34E	330	N	2310	W	0	New (Not drilled or compl)
6	Point	CHEVRON U S A INC	GRAMMA RIDGE 14 24 34 008H	32.2239	-103.433441	3002542060	14	24.0S	34E	330	N	380	E	0	New (Not drilled or compl)
7	Point	CHEVRON U S A INC	GRAMMA RIDGE 14 24 34 006H	32.223903	-103.43773	3002542289	14	24.0S	34E	330	N	1700	E	0	New (Not drilled or compl)
8	Point	CHEVRON U S A INC	GRAMMA RIDGE 14 24 34 001H	32.223904	-103.439679	3002541811	14	24.0S	34E	330	N	2300	E	0	New (Not drilled or compl)