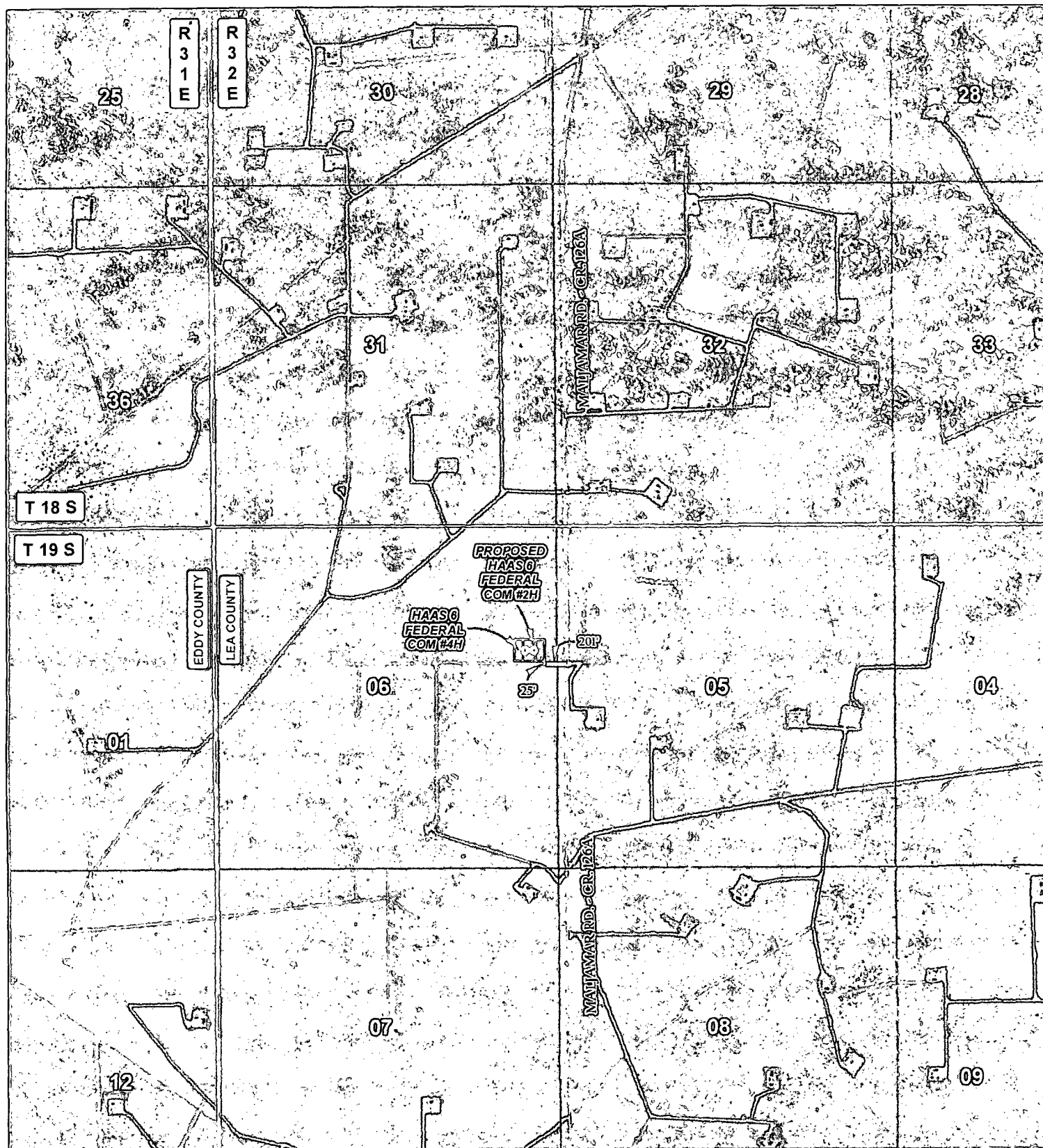




LEGEND

○ WELL

□ WELLPAD

--- TWO-TRACK ROAD

— PROPOSED ROAD

HAAS 6 FEDERAL COM #4H

SEC: 06 TWP: 19 S. RGE: 32 E. ELEVATION: 3660.0'

STATE: NEW MEXICO COUNTY: LEA 1930' FNL & 450' FEL

W.O. # 15-136 LEASE: HAAS 6 FED COM SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.125 0.25 0.5 Miles

1 IN = 2,000 FT

LOCATION MAP

IMAGERY

03/03/2015

A.P.

CONCHO

COG OPERATING, LLC



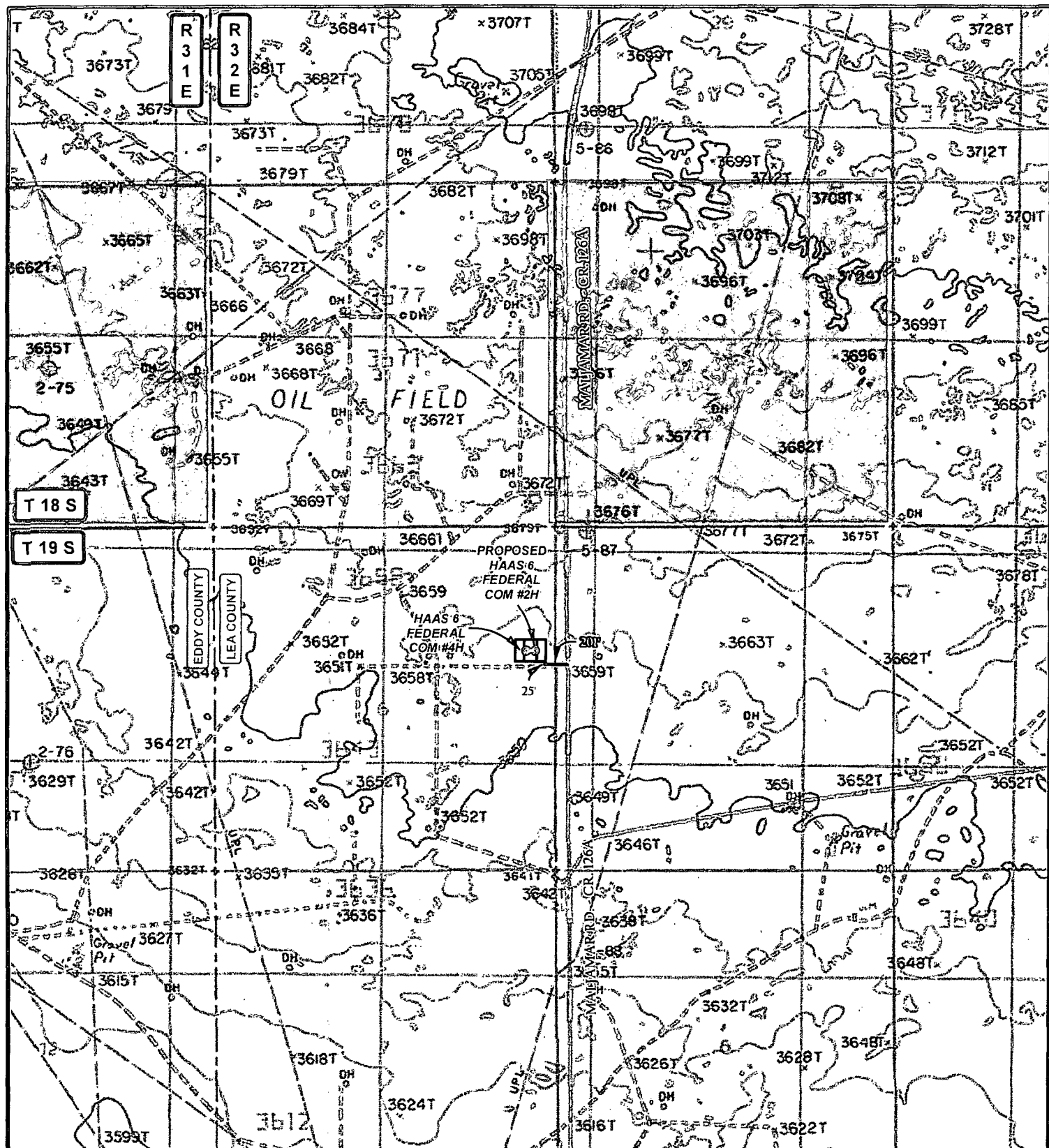
HARCROW SURVEYING, LLC.

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c.harcrow@harcrowsurveying.com

APR 25 2016



LEGEND

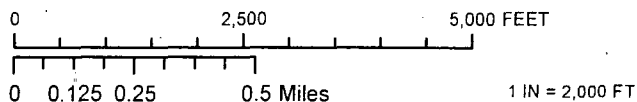
- WELL
- WELLPAD
- TWO-TRACK ROAD
- PROPOSED ROAD
- PRIVATE
- STATE OF NM
- US BLM

HAAS 6 FEDERAL COM #4H

SEC: 06 TWP: 19 S. RGE: 32 E. ELEVATION: 3660.0'

STATE: NEW MEXICO COUNTY: LEA 1930' FNL & 450' FEL

W.O. # 15-136 LEASE: HAAS 6 FED COM SURVEY: N.M.P.M



LOCATION MAP

LAND STATUS

03/03/2015

AF



COG OPERATING, LLC



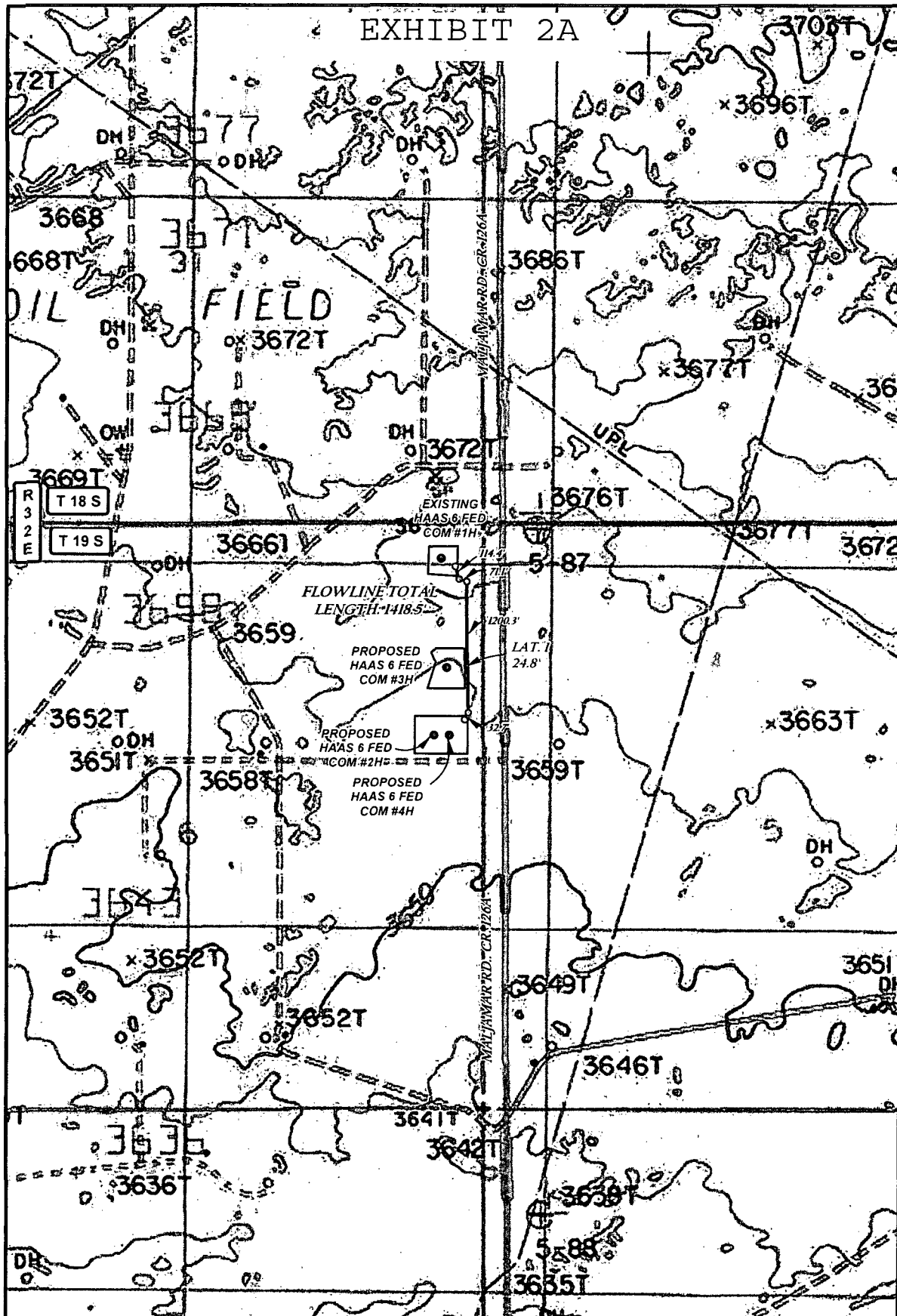
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EXHIBIT 2A



LEGEND

- WELL
- WELLPAD
- FLOW LINE: MAIN
- FLOW LINE: LAT. 1

HAAS 6 FED COM FLOW LINE

SECTION: 6 TOWNSHIP: 19 S. RANGE: 32 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.
 W.O. # 15-381 LEASE: HAAS 6 FED COM

0 2,500 FEET

0 0.05 0.1 0.2 Miles 1 IN = 1,000 FT

PIPELINE OVERVIEW TOPO 04/23/2015 S.P.

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 charcrow@harcrowsurveying.com

FLOWLINE PLAT: MAINLINE
COG OPERATING, LLC.

The map shows a 160-acre tract divided into four 41-acre lots (LOT 1, LOT 2, LOT 3, LOT 4). The boundaries are defined by bearings and distances. The tract is bounded by 'GLO B.C. 1912' on the north, south, and west sides, and 'USA' on the east side. A 'TIE' section is shown on the right side, with bearings and distances for 'HAAS 6 FED COM #1H', 'HAAS 6 FED COM #4H', and 'HAAS 6 FED COM #2H'. A 'BURIED PIPELINE' section is also shown, with bearings and distances for 'END OF LINE', 'BEGIN SURVEY', and 'P.I. 10°33'20" LT'. The map includes a scale bar and a north arrow.

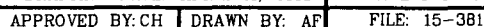
LOT 1
41.26 AC
LOT 2
41.22 AC
LOT 3
41.15 AC
LOT 4
41.03 AC

Boundaries and Distances:
 North: GLO B.C. "1912" 36 31 N89°51'55"E - 2674.26' 31 32 GLO B.C. "1913"
 West: GLO B.C. "1912" 1 6 N00°19'25"W - 2640.66' 1 6
 South: GLO B.C. "1912" 12 7 N89°53'21"E - 2672.82' 12 7
 East: USA 6 5 N00°22'23"W - 2641.0' 6 5
 North-East: 31 32 S89°48'19"W - 2641.74' 31 32 GLO B.C. "1913"
 South-East: 31 32 S89°49'35"W - 2642.76' 31 32 GLO B.C. "1912"

TIE Section:
 (TIE)
 S29°13'38"W 480.82'
 HAAS 6 FED COM #1H
 N13°21'24"W 114.4'
 N82°31'40"W 71.1'
 N00°40'44"W 1200.3'
 GLO B.C. "1912" 31 32
 N09°52'36"E 32.7'
 HAAS 6 FED COM #4H
 HAAS 6 FED COM #2H
 (TIE)
 S09°34'53"E 881.32'
 GLO B.C. "1912" 31 32

BURIED PIPELINE Section:
 14+18.5 END OF LINE
 13+30.0 BURIED PIPELINE
 13+04.1 P.I. 69°10'16" RT
 12+33.0 P.I. 81°50'56" LT
 0+32.7 P.I. 10°33'20" LT
 0+00.0 BEGIN SURVEY

A STRIP OF LAND 30.0 FEET WIDE AND 1418.5 FEET OR 85.97 RODS OR .269 MILES IN LENGTH CROSSING USA LAND IN SECTION 6, TOWNSHIP 19 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY



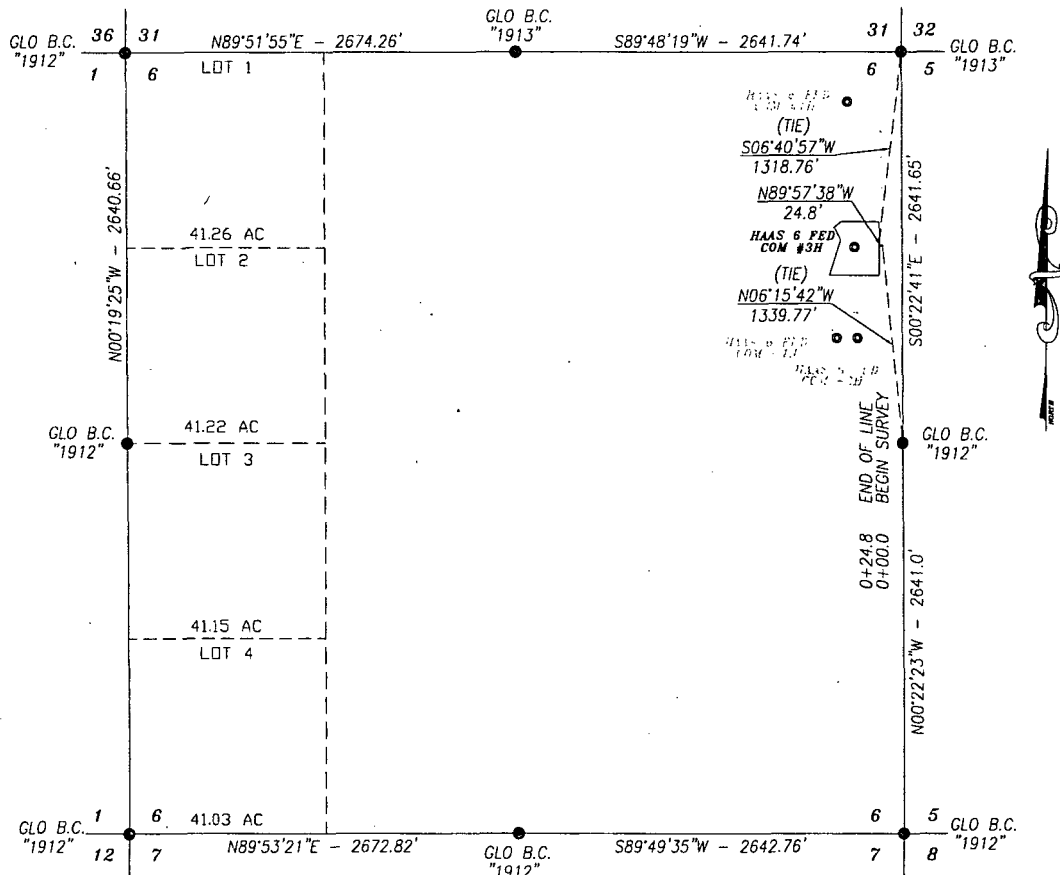
Chad Harcrow
CHAD HARCROW N.M.P.S. NO. 17777

5/13/15
DATE

EXHIBIT 2C

FLOWLINE PLAT: LATERAL COG OPERATING, LLC.

FLOWLINE FROM PROPOSED FLOWLINE TO THE HAAS 6 FED COM #3H IN
SECTION 6, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 24.8 FEET OR 1.50 RODS OR 0.005 MILES IN LENGTH CROSSING USA LAND IN SECTION 6, TOWNSHIP 19 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BASIS OF BEARING:

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

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

5/13/15
DATE

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1000 0 1000 2000 FEET
SCALE: 1"=1000'

COG OPERATING, LLC	
SURVEY OF A PROPOSED FLOWLINE LOCATED IN SECTION 6, TOWNSHIP 19 SOUTH, RANGE 32 EAST, LEA COUNTY, NMPM, NEW MEXICO	
SURVEY DATE: APRIL 7, 2015	LATERAL
DRAFTING DATE: APRIL 21, 2015	PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: AF
	FILE: 15-381

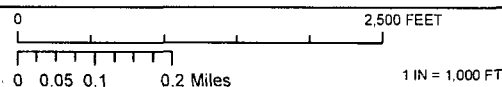


LEGEND

- WELL
- WELLPAD
- FLOW LINE: MAIN
- FLOW LINE: LAT. 1

HAAS 6 FED COM FLOW LINE

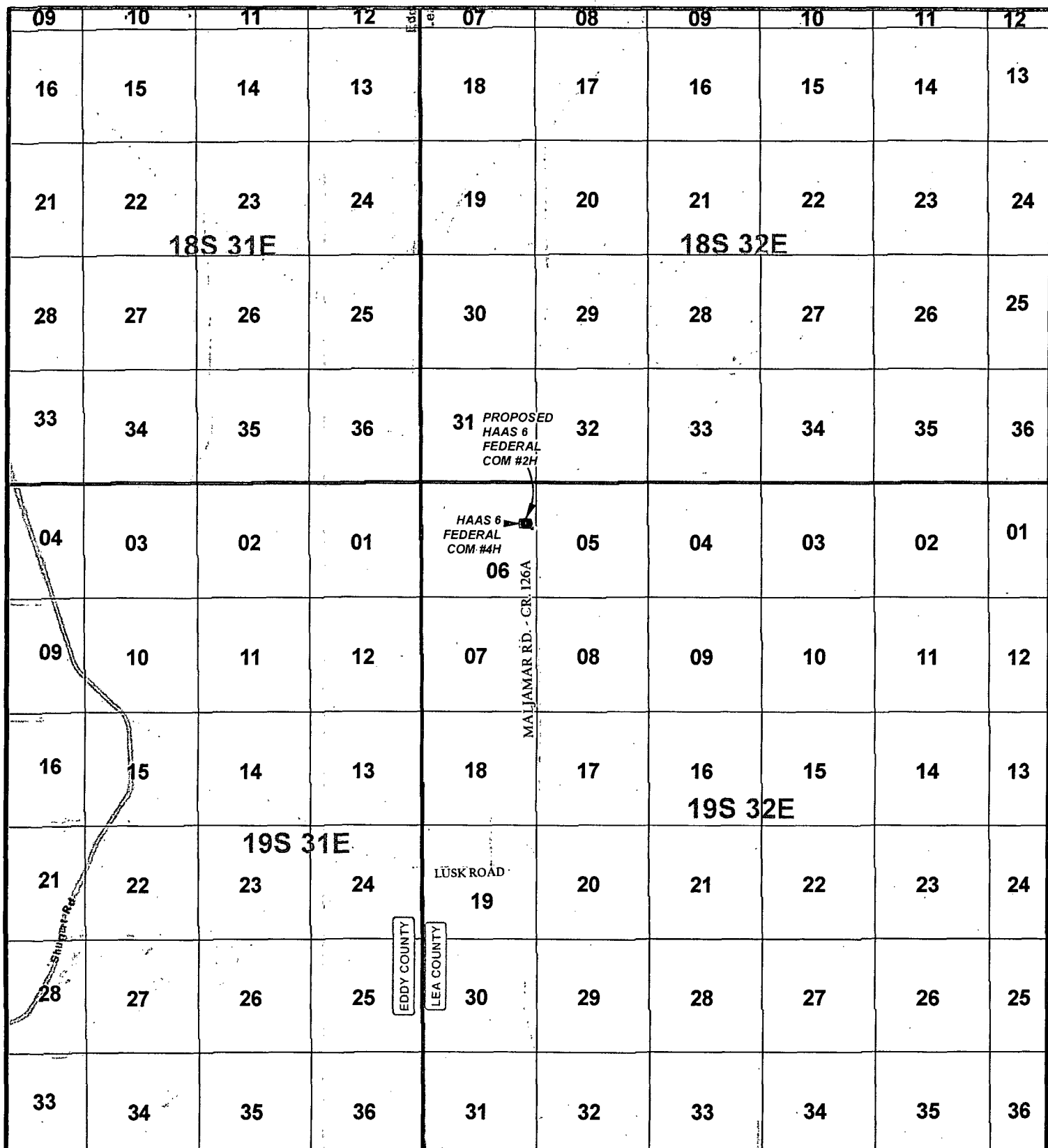
SECTION: 6 TOWNSHIP: 19 S. RANGE: 32 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M
 W.O. # 15-381 LEASE: HAAS 6 FED COM



PIPELINE OVERVIEW IMAGERY 04/23/2015 S.P.

CONCHO
 COG OPERATING, LLC

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LEGEND

• WELL

□ WELLPAD

— TWO-TRACK ROAD

— PROPOSED ROAD

HAAS 6 FEDERAL COM #4H

SEC: 06 TWP: 19 S. RGE: 32 E. ELEVATION: 3660.0'

STATE: NEW MEXICO COUNTY: LEA 1930' FNL & 450' FEL

W.O. # 15-136 LEASE: HAAS 6 FED COM SURVEY: N.M.P.M

0 2,500 5,000 7,500 10,000 12,500 15,000 FEET

0 0.4 0.8 1.6 Miles

1 IN = 6,000 FT

VICINITY MAP

03/03/2015

A.F.

CONCHO

COG OPERATING, LLC

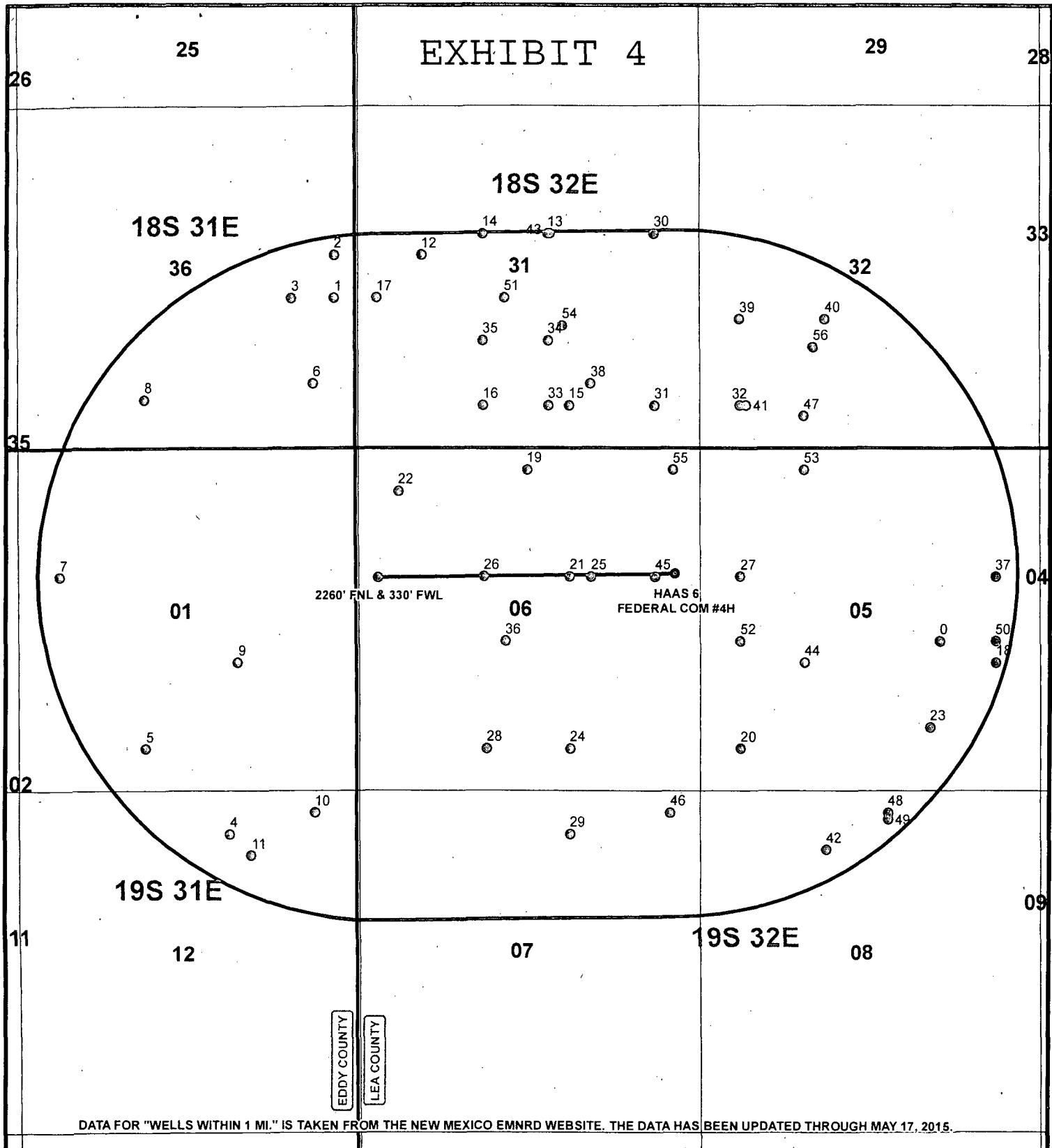


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LEGEND

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

HAAS 6 FEDERAL COM #4H

SEC: 06 TWP: 19 S. RGE: 32 E. ELEVATION: 3660.0'

STATE: NEW MEXICO COUNTY: LEA 1930' FNL & 450' FEL

W.O. # 15-654 LEASE: HAAS 6 FED COM SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.125 0.25 0.5 Miles 1 IN = 2,000 FT

1 MILE MAP

05/26/2015

A.F.



COG OPERATING, LLC



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HAA5 6 FEDERAL COM #4H WELL DATA

FID	Shape *	OPERATOR	WELL_NAME	LATITUDE	LONGITUDE/API	SECTION	TOWNSHIP/RANGE	FTG_NS	NS_CD	FTG_EW	EW_CD	TVD_DEPT/COMPL_STAT
0	Point	COG OPERATING LLC	PATTERSON B 52 FEDERAL 003H	32.68858	-103.785	3E+09	5 19.05 32E	2310 S		1500 E		11080 New (Not drilled or compl)
1	Point	OLEN F FEATHERSTONE	STATE 001	32.70318	-103.815	3E+09	36 18.05 31E	2970 N		330 E		0 Plugged
2	Point	OLEN F FEATHERSTONE	STATE 002	32.705	-103.815	3E+09	36 18.05 31E	2310 N		330 E		0 Plugged
3	Point	OLEN F FEATHERSTONE	STATE 003	32.70318	-103.818	3E+09	36 18.05 31E	2970 N		990 E		0 Plugged
4	Point	CARPER DRILLING CO	CARPER QUILLIN 001	32.6805	-103.821	3E+09	12 19.05 31E	660 N		1980 E		0 Plugged
5	Point	C W TRAINER	JOYCE COM 001	32.68412	-103.825	3E+09	1 19.05 31E	660 S		1980 W		0 Plugged
6	Point	JOHN H TRIGG	STATE A 001	32.69556	-103.817	3E+09	36 18.05 31E	990 S		660 E		0 Plugged
7	Point	DEVON ENERGY PRODUCTION COMPANY, LP	HANNIFIN FEDERAL 002	32.69137	-103.829	3E+09	1 19.05 31E	1980 N		660 W		12250 Active
8	Point	MATADOR PRODUCTION COMPANY	EDDY JP STATE COM 001	32.69889	-103.825	3E+09	36 18.05 31E	750 S		1980 W		12250 Active
9	Point	DEVON ENERGY PRODUCTION COMPANY, LP	KITTY HAWK FEDERAL 001	32.68776	-103.82	3E+09	1 19.05 31E	1980 S		1850 E		12270 Active
10	Point	COG OPERATING LLC	MALIBU FEDERAL COM 002	32.68141	-103.816	3E+09	12 19.05 31E	330 N		660 E		0 New (Not drilled or compl)
11	Point	COG OPERATING LLC	PIPER FEDERAL 002	32.67959	-103.82	3E+09	12 19.05 31E	990 N		1650 E		0 New (Not drilled or compl)
12	Point	TENNECO OIL CO	FEATHERSTONE 001	32.70499	-103.811	3E+09	31 18.05 32E	2310 N		1032 W		31133 Plugged
13	Point	E N BROCK ET AL	SPENCER 001	32.70588	-103.805	3E+09	31 18.05 32E	1980 N		2310 E		3196 Plugged
14	Point	TENNECO OIL CO	STOUT 001	32.70589	-103.808	3E+09	31 18.05 32E	1980 N		1980 W		3048 Plugged
15	Point	T E BROWN	WATKINS FEDERAL 001	32.69862	-103.804	3E+09	31 18.05 32E	660 S		1980 E		4180 Plugged
16	Point	STEPHENS & JOHNSON OP CO	MAY HIGHTOWER FEDERAL 001	32.69864	-103.808	3E+09	31 18.05 32E	660 S		1980 W		4252 Active
17	Point	PECKHAM & CLARK	HIGHTOWER FEDERAL 002	32.70318	-103.813	3E+09	31 18.05 32E	2970 N		330 W		4266 Plugged
18	Point	T E BROWN	WATKINS 001	32.68767	-103.782	3E+09	5 19.05 32E	1980 S		660 E		4581 Plugged
19	Point	KINCAID & WATSON DRILLING CO	STOUT FEDERAL 001	32.69591	-103.806	3E+09	6 19.05 32E	330 N		2656 W		4256 Plugged
20	Point	CORAL OIL & GAS CO	PRICE FEDERAL 002	32.68407	-103.795	3E+09	5 19.05 32E	660 S		660 W		11437 Plugged
21	Point	MACK ENERGY CORP	W H PECKHAM 001	32.69137	-103.804	3E+09	6 19.05 32E	1980 N		1980 E		4383 Plugged
22	Point	A K POLIS JR	BROWN 001	32.69502	-103.812	3E+09	6 19.05 32E	660 N		660 W		4415 Plugged
23	Point	PIONEER ENTERPRISES INC	PRICE S FEDERAL 001	32.68495	-103.785	3E+09	5 19.05 32E	990 S		1650 E		11815 Plugged
24	Point	DEVON ENERGY PRODUCTION COMPANY, LP	CONTINENTAL COM FEDERAL 001	32.6841	-103.804	3E+09	6 19.05 32E	660 S		1980 E		11370 Active
25	Point	FINA OIL & CHEMICAL	CONTINENTAL A COM FE 001	32.69136	-103.802	3E+09	6 19.05 32E	1980 N		1650 E		11471 Plugged
26	Point	TENNECO OIL CO	CONTINENTAL UNIT USA 001	32.69138	-103.808	3E+09	6 19.05 32E	1980 N		1980 W		11294 Plugged
27	Point	RAY WESTALL	SB FEDERAL 001	32.69134	-103.795	3E+09	5 19.05 32E	1980 N		660 W		11440 Plugged
28	Point	C & K PETROLEUM INC	GREENWOOD 6 FEDERAL 001	32.68411	-103.808	3E+09	6 19.05 32E	660 S		2012 W		12504 Plugged
29	Point	DAMSON OIL CO	GREENWOOD PRE-GRAYBU 001	32.68047	-103.803	3E+09	7 19.05 32E	660 N		1980 E		0 Plugged
30	Point	GULF OIL CORP	HELI E FEDERAL 001	32.70586	-103.799	3E+09	31 18.05 32E	1980 N		660 E		11620 Plugged
31	Point	BEACH EXPLORATION INC	MOLEEN FEDERAL 001	32.69861	-103.799	3E+09	31 18.05 32E	660 S		660 E		11473 Plugged
32	Point	LATIGO PETROLEUM, INC.	NORTH LUSK 32 STATE 002	32.6986	-103.795	3E+09	32 18.05 32E	660 S		660 W		11600 Plugged
33	Point	C W STUMHOFFER	FEDERAL CST 001	32.69863	-103.805	3E+09	31 18.05 32E	660 S		2310 E		4265 Plugged
34	Point	C W STUMHOFFER	FEDERAL CST 002	32.70135	-103.805	3E+09	31 18.05 32E	1650 S		2310 E		4264 Plugged
35	Point	E B CLARK	HIGHTOWER 003	32.70136	-103.808	3E+09	31 18.05 32E	1980 W		1980 W		4300 Plugged
36	Point	MACK ENERGY CORP	LLANO FEDERAL 001	32.68865	-103.807	3E+09	6 19.05 32E	2310 S		2310 W		4393 Plugged
37	Point	WARREN E & P, INC.	SHELLY FED. COM 001	32.6913	-103.782	3E+09	5 19.05 32E	1980 N		660 E		13060 Plugged
38	Point	E G L RESOURCES INC	LUSK 31 FEDERAL COM 001	32.69953	-103.802	3E+09	31 18.05 32E	1650 S		1650 E		12620 Active
39	Point	OXY USA INC	NORTH LUSK 32 STATE 001	32.70223	-103.795	3E+09	32 18.05 32E	1980 S		660 W		12930 Active
40	Point	OXY USA INC	NORTH LUSK 32 STATE 003	32.70221	-103.791	3E+09	32 18.05 32E	1980 S		1980 W		9838 Active
41	Point	OXY USA INC	NORTH LUSK 32 STATE 005	32.6986	-103.795	3E+09	32 18.05 32E	660 S		760 W		9890 Active
42	Point	COG OPERATING LLC	TBM FEDERAL COM 001	32.67977	-103.791	3E+09	8 19.05 32E	900 N		1980 W		12940 Active
43	Point	COG OPERATING LLC	LPC 31 FEDERAL 001	32.70588	-103.805	3E+09	31 18.05 32E	1980 N		2280 E		9980 Active
44	Point	COG OPERATING LLC	BONANZA FEDERAL 001	32.68769	-103.792	3E+09	5 19.05 32E	1980 S		1650 W		12960 Active
45	Point	COG OPERATING LLC	HEIDI HO FEDERAL COM 001	32.69135	-103.799	3E+09	6 19.05 32E	1980 N		660 E		0
46	Point	COG OPERATING LLC	SPRUCE GOOSE FEDERAL 001	32.68136	-103.798	3E+09	7 19.05 32E	430 E		430 E		10873 Active
47	Point	COG OPERATING LLC	LEAR STATE 002H	32.69815	-103.792	3E+09	32 18.05 32E	500 S		1650 W		11190 New (Not drilled or compl)
48	Point	COG OPERATING LLC	KING AIR FEDERAL 001H	32.68133	-103.787	3E+09	8 19.05 32E	330 N		2310 E		11180 Active
49	Point	COG OPERATING LLC	PATTERSON B 52 FEDERAL 005H	32.68106	-103.787	3E+09	8 19.05 32E	2310 S		660 E		11220 Active
50	Point	E G L RESOURCES INC	LUSK 31 FEDERAL 002	32.70317	-103.807	3E+09	5 19.05 32E	2310 S		660 E		11130 New (Not drilled or compl)
51	Point	COG OPERATING LLC	PATTERSON B 52 FEDERAL 004H	32.6886	-103.795	3E+09	31 18.05 32E	2310 S		2310 W		9807 Active
52	Point	COG OPERATING LLC	PATTERSON B 52 FEDERAL 001C	32.69586	-103.792	3E+09	5 19.05 32E	660 W		1651 W		11091 Active
53	Point	E G L RESOURCES INC	LUSK 31 FEDERAL 003	32.70198	-103.804	3E+09	31 18.05 32E	1880 S		2080 E		0 New (Not drilled or compl)
54	Point	COG OPERATING LLC	HAA5 6 FEDERAL COM 001H	32.69589	-103.798	3E+09	6 19.05 32E	380 E		380 E		11310 Active
55	Point	COG OPERATING LLC	NORTH LUSK 32 STATE SWD 001	32.70103	-103.791	3E+09	32 18.05 32E	1550 S		1800 W		9205 New (Not drilled or compl)
56	Point											0 New (Not drilled or compl)