

DISTRICT I
1623 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
611 S. FIRST ST., 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
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

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 30-025-43482	Pool Code 5535	Pool Name BERRY;BONE SPRING, NORTH
Property Code 315664	Property Name MAS FEDERAL	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3719.5'

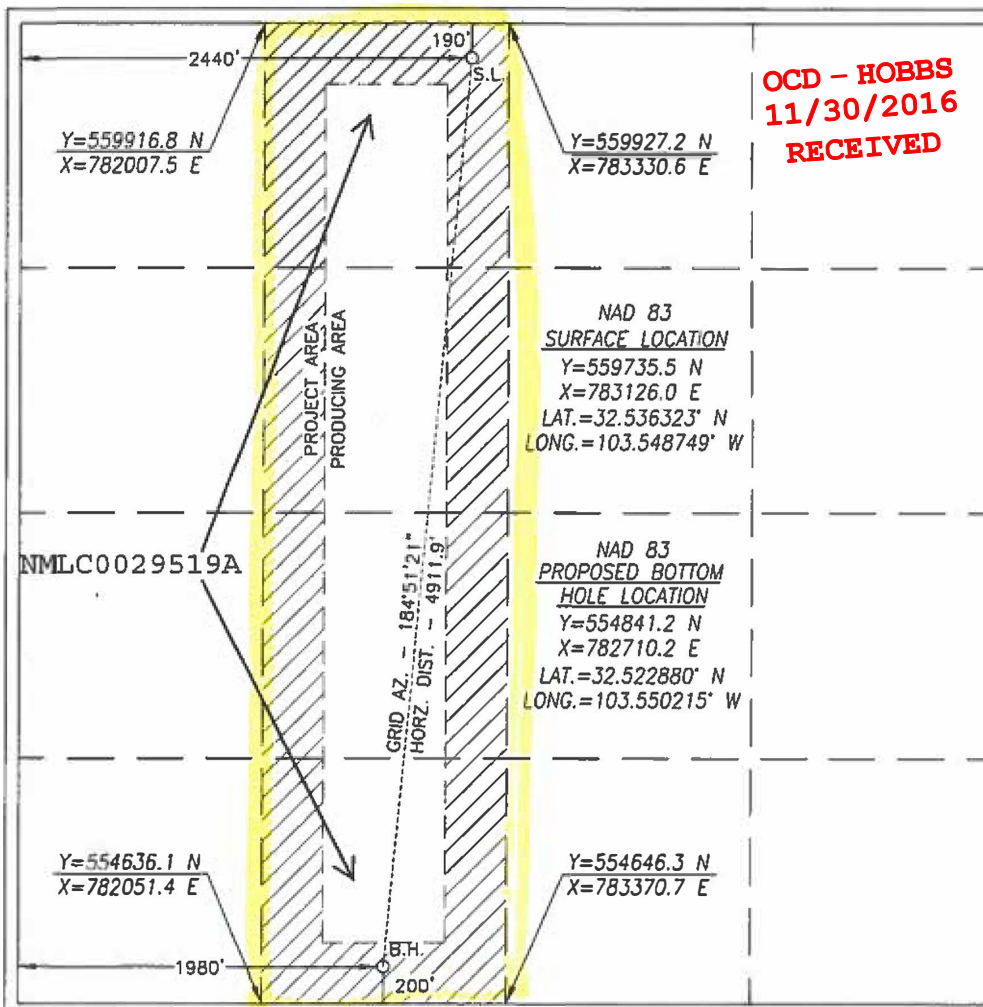
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	34	20-S	34-E		190	NORTH	2440	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
N	34	20-S	34-E		200	SOUTH	1980	WEST	LEA
Dedicated Acres 160	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.

Mayte Reyes 11-3-16
Signature Date

Mayte Reyes

Printed Name

mreyes1@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.

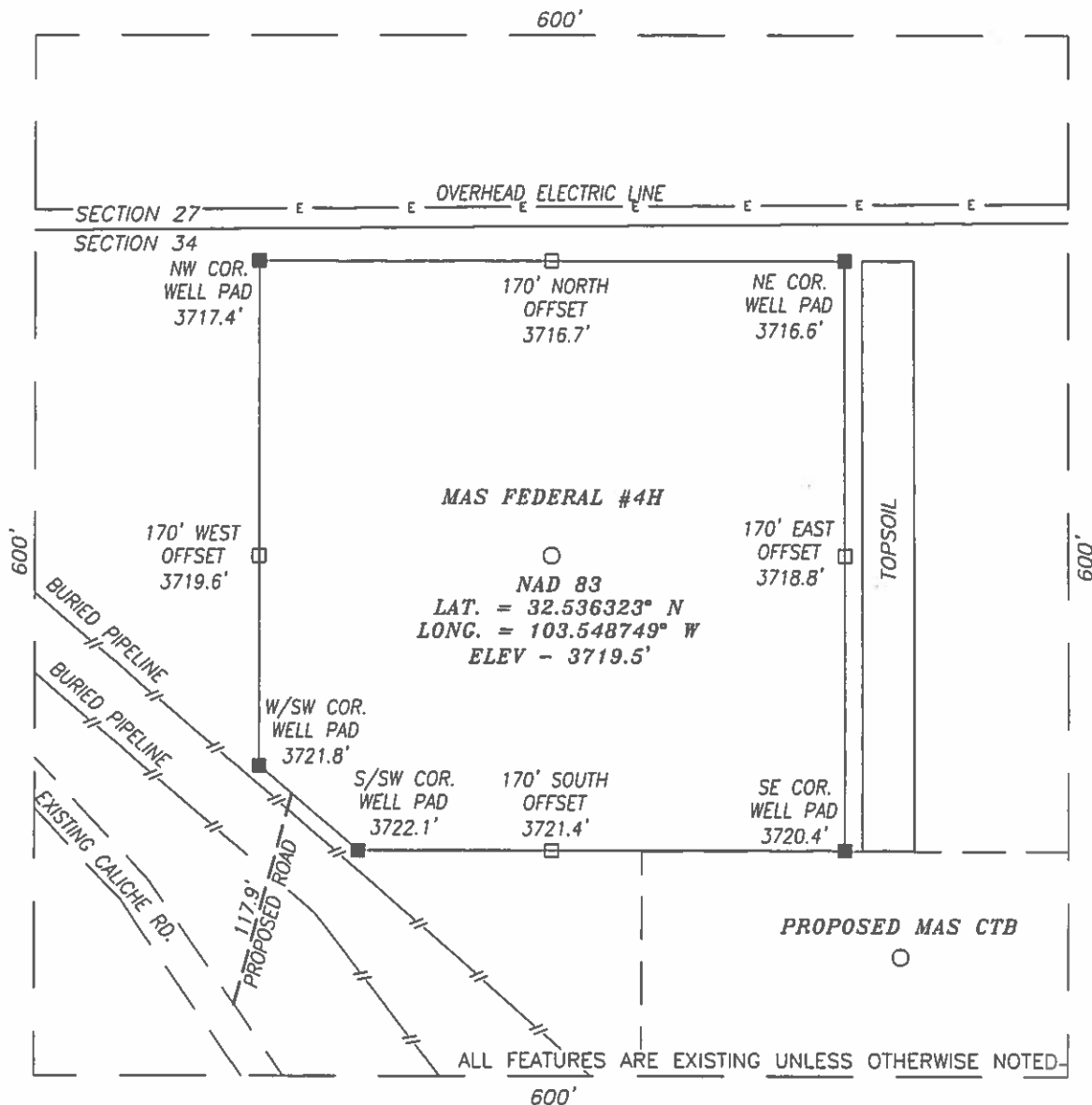
SEPTEMBER 9, 2016

Date of Survey

Signature & Seal of Professional Surveyor

Chad L. Harcrow 10/20/16
Certificate No. CHAD HARCROW 17777
W.O. #16-B47 DRAWN BY: JR

SECTION 34, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION:
FROM THE INTERSECTION OF SKEEN ROAD AND HWY 176 GO NORTH
ON SKEEN RD. APPROX. 1.3 MILES. THEN PROPOSED WELL IS APPROX.
306 FEET NORTHEAST.

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

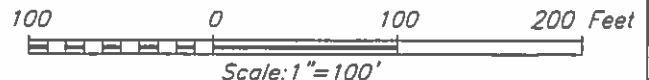


CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY
THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS
SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW
MEXICO.



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

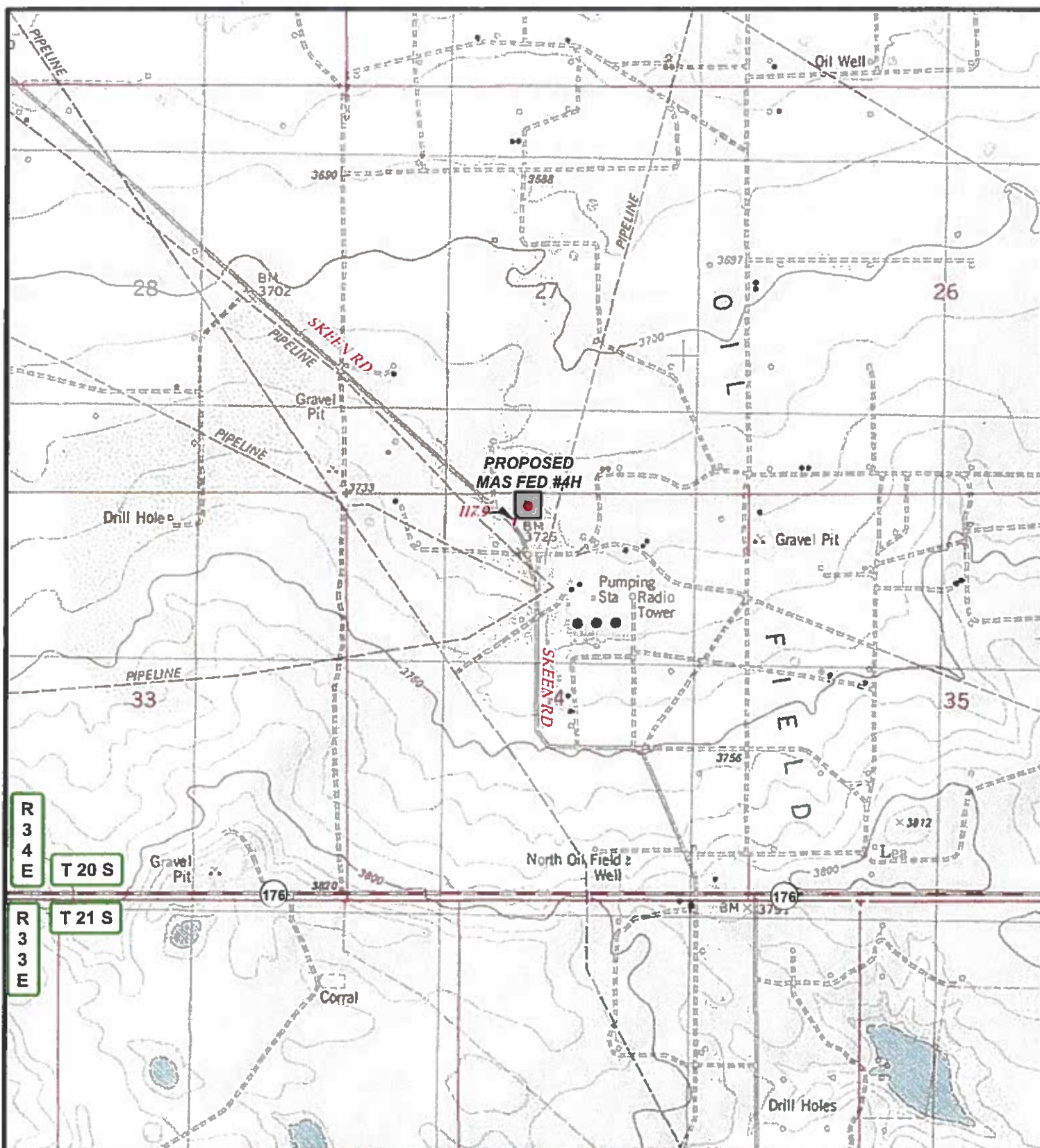
9/14/16
DATE



COG OPERATING, LLC

MAS FEDERAL #4H WELL
LOCATED 190 FEET FROM THE NORTH LINE
AND 2440 FEET FROM THE WEST LINE OF SECTION 34,
TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: SEPT. 9, 2016	PAGE: 1 OF 1
DRAFTING DATE: SEPT. 14, 2016	
APPROVED BY: CH	DRAWN BY: JR FILE: 16-704

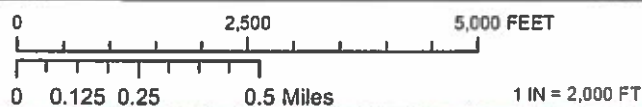


LEGEND

- WELL
- WELLPAD
- PROPOSED ROAD

MAS FEDERAL #4H

SEC: 34	TWP: 20 S.	RGE: 34 E.	ELEVATION: 3719.5'
STATE: NEW MEXICO	COUNTY: LEA	190' FNL & 2440' FWL	
W.O. # 16-704	LEASE: MAS FED	SURVEY: N.M.P.M	



LOCATION MAP

TOPO

09/13/2016

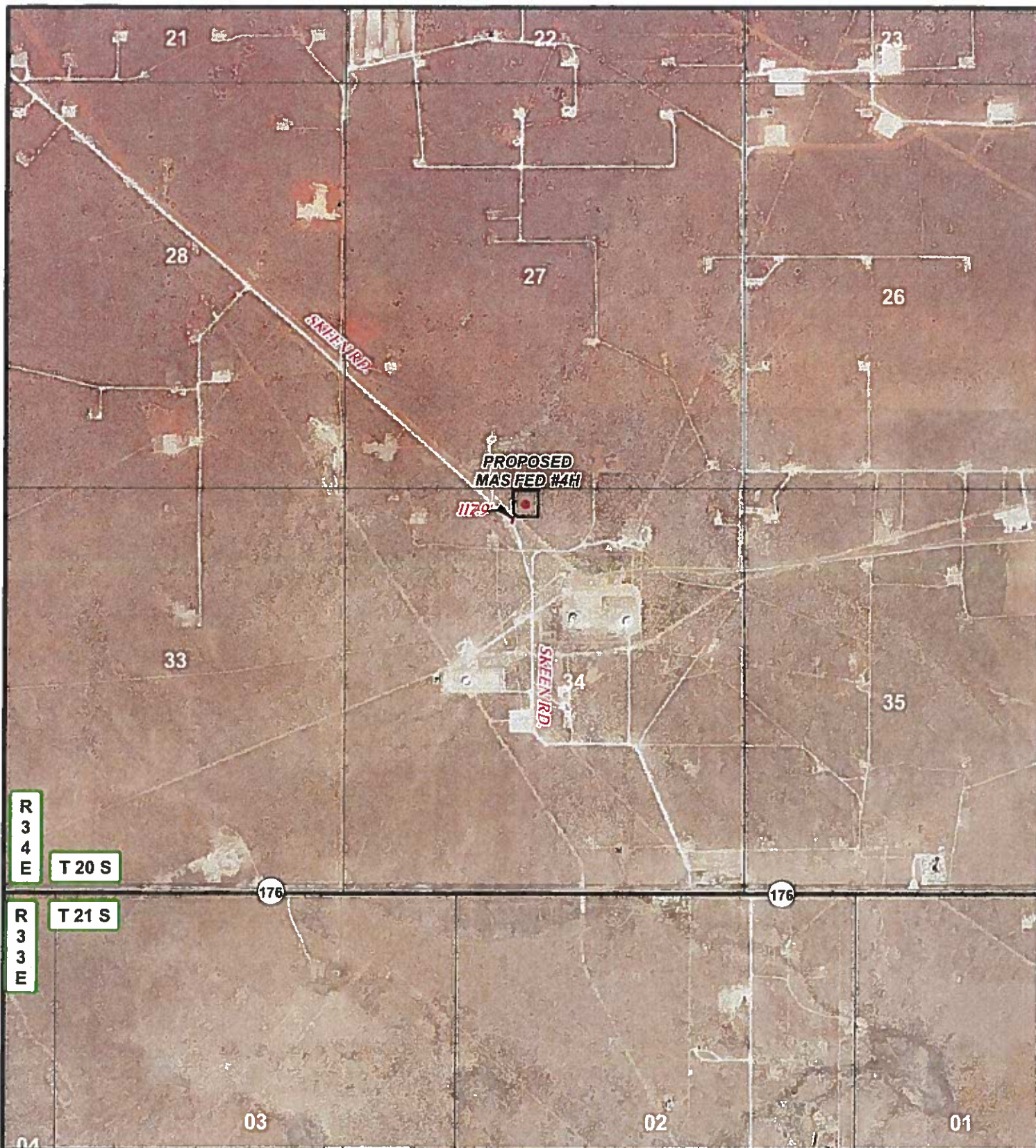
S.P.



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LEGEND

- WELL
- WELLPAD
- PROPOSED ROAD

MAS FEDERAL #4H

SEC: 34 TWP: 20 S. RGE: 34 E. ELEVATION: 3719.5'
 STATE: NEW MEXICO COUNTY: LEA 190' FNL & 2440' FWL
 W.O. # 16-704 LEASE: MAS FED SURVEY: N.M.P.M



LOCATION MAP IMAGERY 09/13/2016 S.P.

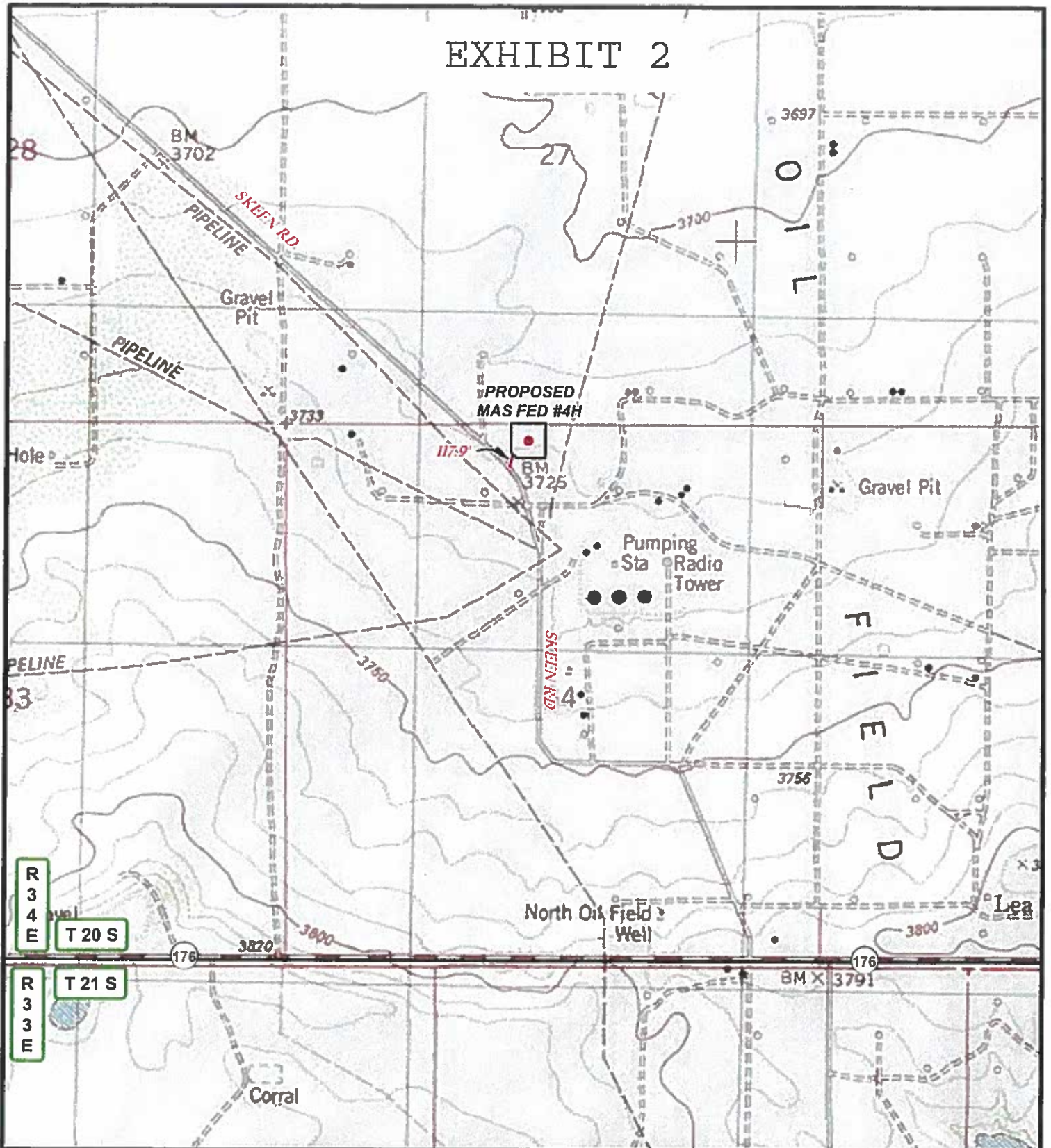
CONCHO

COG OPERATING, LLC



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EXHIBIT 2



LEGEND

- WELL
- WELLPAD
- PROPOSED ROAD

MAS FEDERAL #4H

SEC: 34	TWP: 20 S.	RGE: 34 E.	ELEVATION: 3719.5'
STATE: NEW MEXICO		COUNTY: LEA	190' FNL & 2440' FWL
W.O. # 16-704		LEASE: MAS FED	SURVEY: N.M.P.M

0 2,500 FEET

0 0.1 0.2 0.4 Miles

1 IN = 1,500 FT

LOCATION MAP

TOPO ROAD

09/13/2016

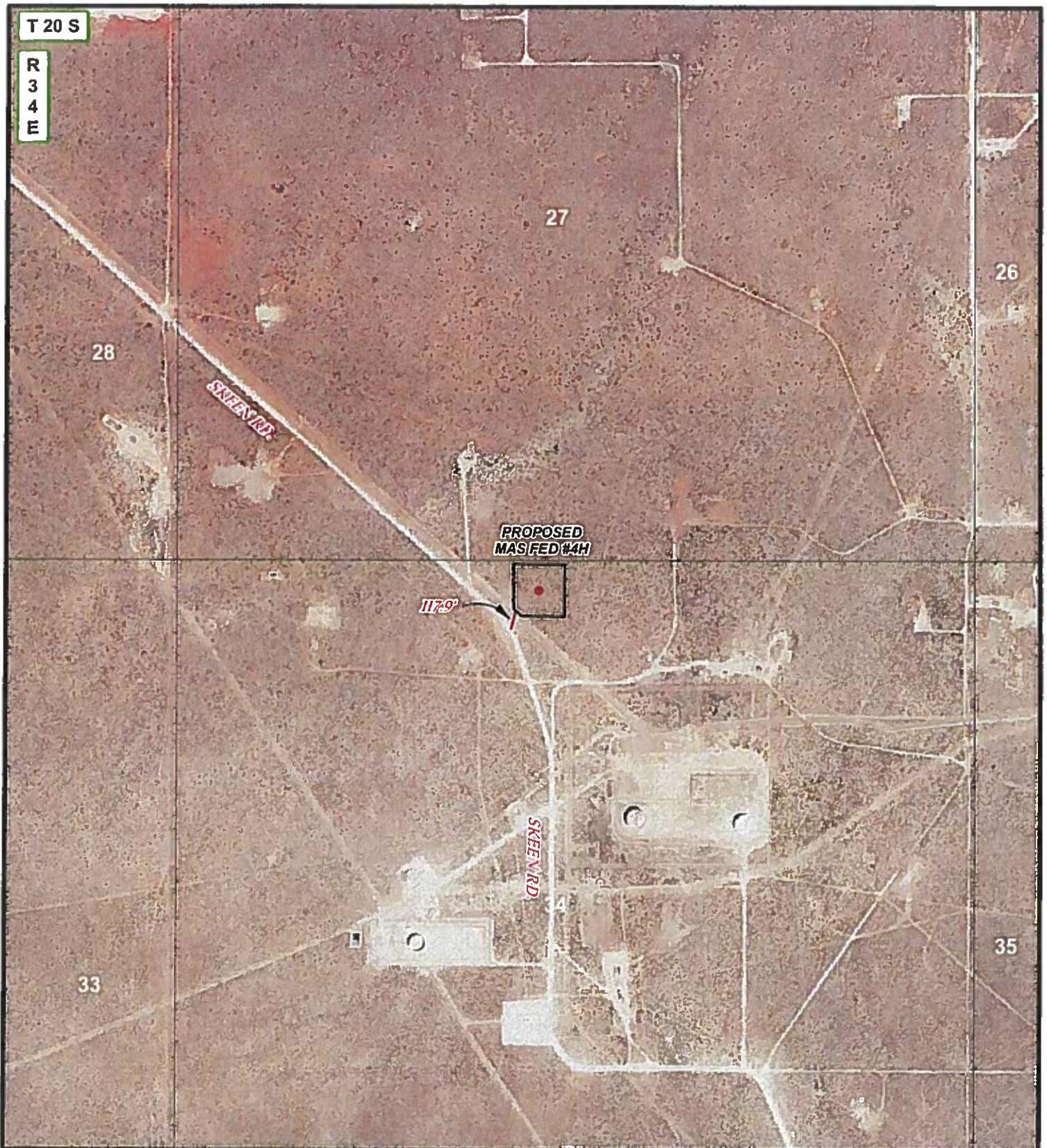
S.P.



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LEGEND

- WELL
- WELLPAD
- PROPOSED ROAD

MAS FEDERAL #4H

SEC: 34	TWP: 20 S.	RGE: 34 E.	ELEVATION: 3719.5'
STATE: NEW MEXICO		COUNTY: LEA	190' FNL & 2440' FWL
W.O. # 16-704		LEASE: MAS FED	SURVEY: N.M.P.M



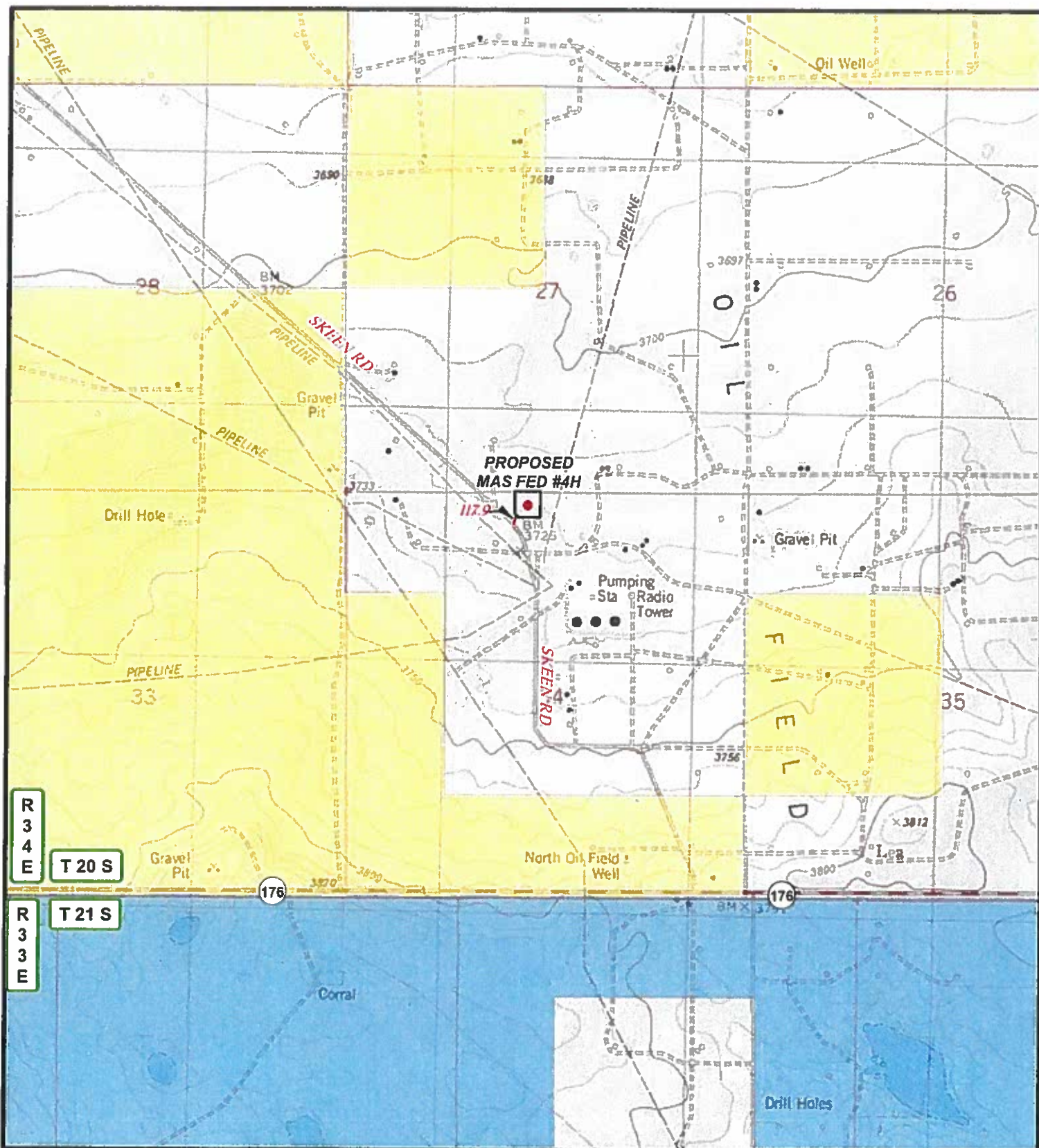
LOCATION MAP	IMAGERY ROAD	09/13/2016	S.P.
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LEGEND

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

MAS FEDERAL #4H

SEC: 34 TWP: 20 S. RGE: 34 E. ELEVATION: 3719.5'
 STATE: NEW MEXICO COUNTY: LEA 190' FNL & 2440' FWL
 W.O. # 16-704 LEASE: MAS FED SURVEY: N.M.P.M



LOCATION MAP LAND STATUS 09/13/2016 S.P.



COG OPERATING, LLC



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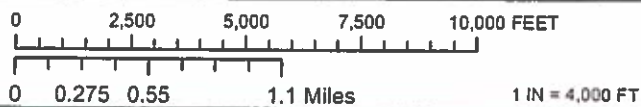


LEGEND

- WELL
- WELLPAD
- PROPOSED ROAD

MAS FEDERAL #4H

SEC: 34 TWP: 20 S. RGE: 34 E. ELEVATION: 3719.5'
 STATE: NEW MEXICO COUNTY: LEA 190' FNL & 2440' FWL
 W.O. # 16-704 LEASE: MAS FED SURVEY: N.M.P.M



LOCATION MAP

VICINITY

09/13/2016

S.P.

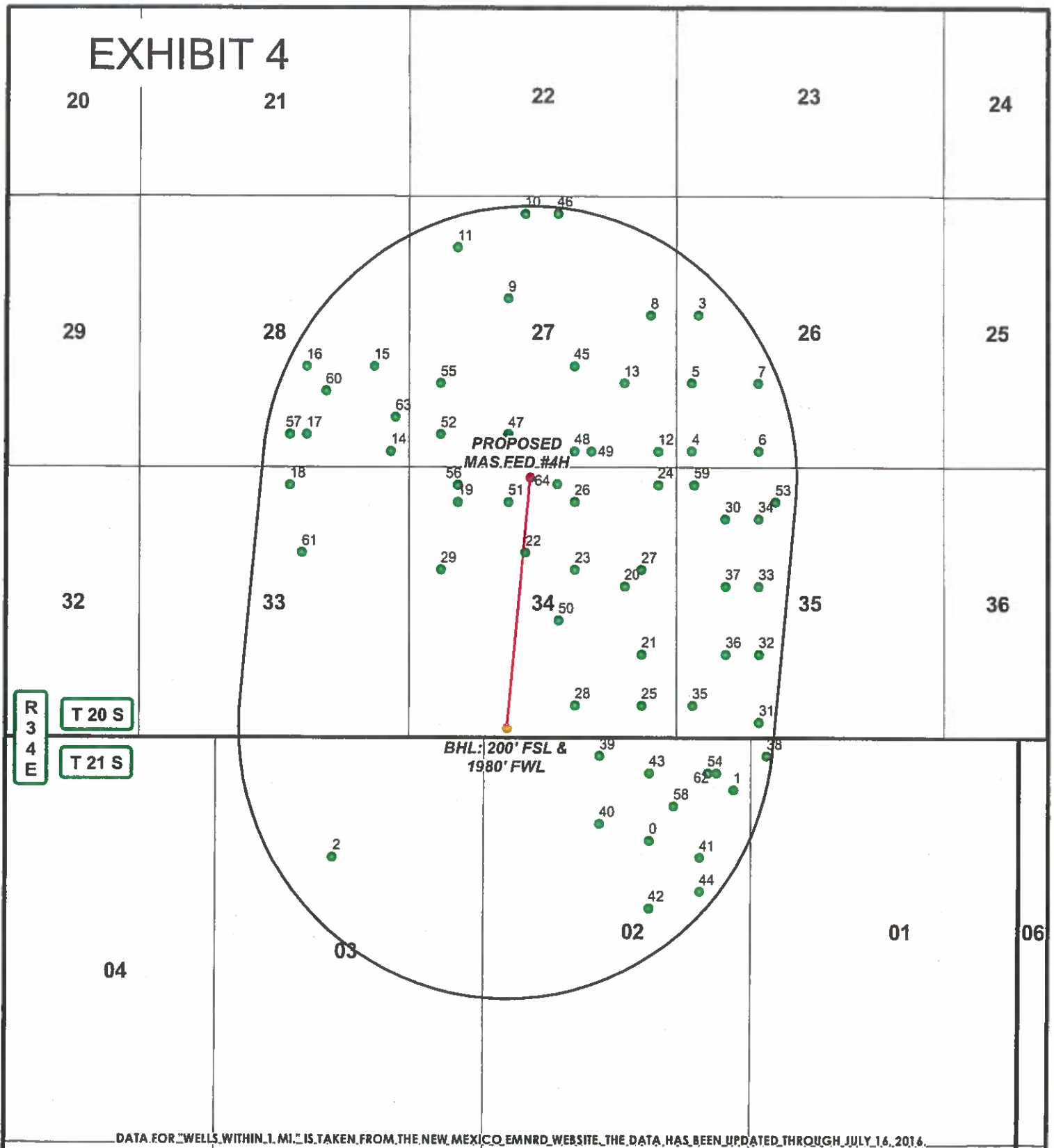
CONCHO

COG OPERATING, LLC



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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 JULY 16, 2016.

LEGEND

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

MAS FEDERAL #4H

SEC: 34	TWP: 20 S.	RGE: 34 E.	ELEVATION: 3719.5'
STATE: NEW MEXICO	COUNTY: LEA	190' FNL & 2440' FWL	
W.O. # 16-847	LEASE: MAS FED	SURVEY: N.M.P.M	

0 2,500 5,000 7,500 FEET

0 0.2 0.4 0.8 Miles 1 IN = 3,000 FT

1 MILE MAP

10/20/2016

JR



COG OPERATING, LLC



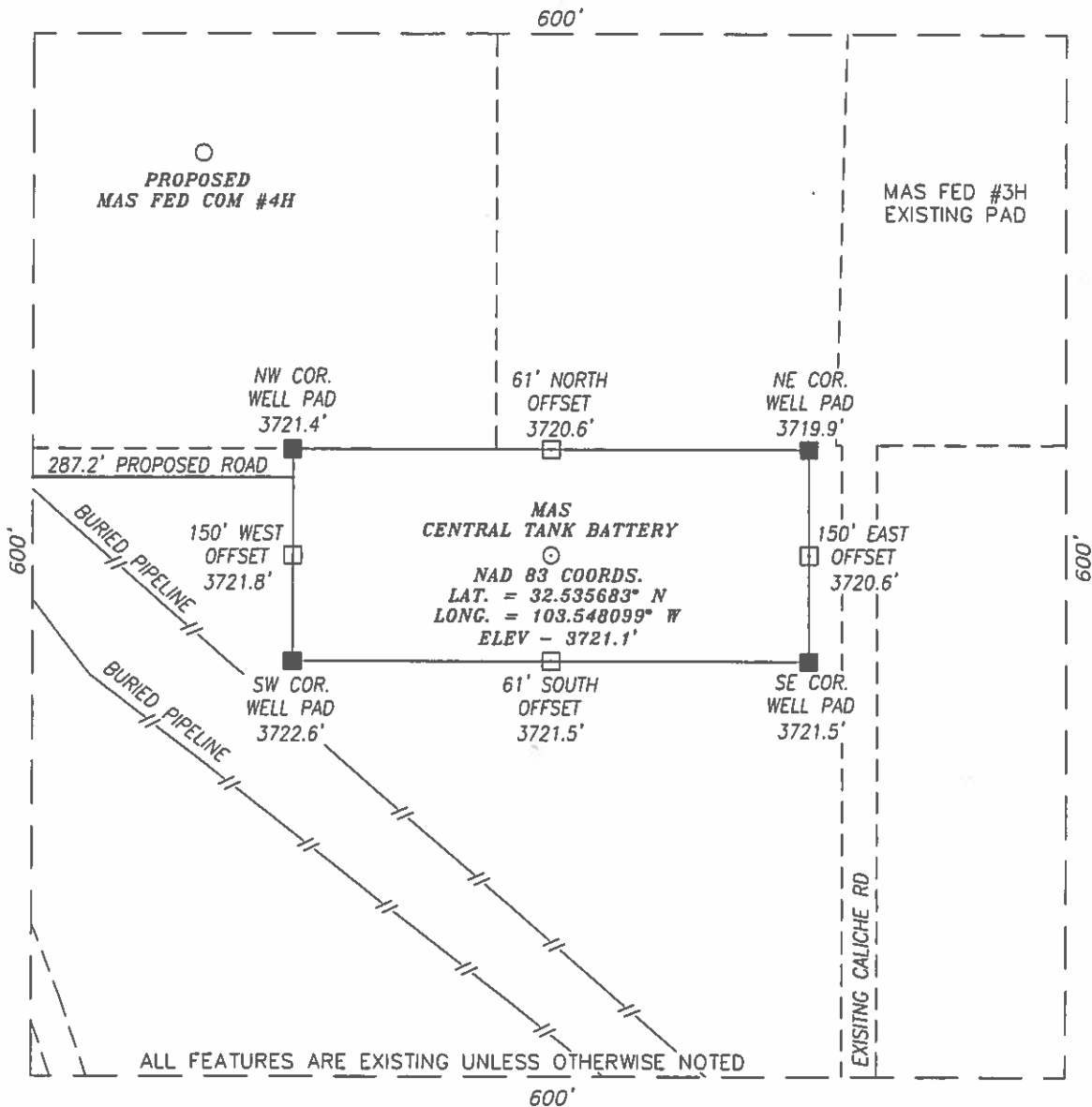
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MAS FED #4H 1 MILE WELL DATA

FID	Shape	Operator	Well_Name	Latitude	Longitude	API	SECTION	TOWNSHIP	RANGE	FTG	NS	CD	FTG	EW	CD	COMPL	STAT
0	Point	B N MUNCY JR	LEA STATE 004	32.516862	-103.541051	3002501776	2	21.05	33E	1980	N		1980	E		Plugged	
1	Point	B N MUNCY JR	LEA STATE 005	32.519583	-103.535567	3002501777	2	21.05	33E	330	N		330	E		Plugged	
2	Point	GENERAL CRUDE OIL CO	STATE D 001	32.515956	-103.561386	3002501778	3	21.05	33E	2310	N		2310	W		Plugged	
3	Point	BURK ROYALTY CO., LTD.	HANSON B 001	32.54502	-103.537931	3002502455	26	20.05	34E	2310	N		467	W		Active	
4	Point	BURK ROYALTY CO., LTD.	CRUCES FEDERAL 001	32.537741	-103.538359	3002502457	26	20.05	34E	330	S		330	W		Active	
5	Point	BURK ROYALTY CO., LTD.	CRUCES FEDERAL 002	32.541372	-103.538369	3002502458	26	20.05	34E	1651	S		330	W		Active	
6	Point	BURK ROYALTY CO., LTD.	CRUCES FEDERAL 003	32.537743	-103.534039	3002502459	26	20.05	34E	330	S		1655	W		Active	
7	Point	BURK ROYALTY CO., LTD.	CRUCES FEDERAL 006	32.541371	-103.534064	3002502462	26	20.05	34E	1650	S		1650	W		Active	
8	Point	BURK ROYALTY CO	RIDER FEDERAL 001	32.545019	-103.540977	3002502463	27	20.05	34E	2310	N		467	E		Plugged	
9	Point	DRILLING & EXPLORATION CO INC	BALLARD 001	32.545918	-103.550177	3002502464	27	20.05	34E	1980	N		1980	W		Plugged	
10	Point	SUNDOWN ENERGY LP	BALLARD DE FEDERAL 002	32.550455	-103.549112	3002502465	27	20.05	34E	330	N		2310	W		Active	
11	Point	SUNDOWN ENERGY LP	BALLARD DE FEDERAL 003	32.548637	-103.553412	3002502466	27	20.05	34E	990	N		990	W		Active	
12	Point	SUNDOWN ENERGY LP	FLETCHER A DE FEDERAL 002	32.537741	-103.540511	3002502468	27	20.05	34E	330	S		330	E		Active	
13	Point	ATLANTIC RICHFIELD	FLETCHER A DE FEDERA 003	32.541369	-103.542673	3002502469	27	20.05	34E	1650	S		330	E		Plugged	
14	Point	MARLAND OIL CO	H H FLINT PERMIT 001	32.537737	-103.558776	3002502472	28	20.05	34E	1980	S		1980	E		Active	
15	Point	HUDSON & HUDSON INC	HOVER FEDERAL 001	32.542272	-103.557689	3002502473	28	20.05	34E	330	S		330	E		Plugged	
16	Point	STEVEN D RUPPERT	SILVER FEDERAL 001	32.542272	-103.563038	3002502474	28	20.05	34E	1980	S		1980	E		Active	
17	Point	STEVEN D RUPPERT	SILVER FEDERAL 004	32.538643	-103.563071	3002502476	28	20.05	34E	660	S		1980	E		Active	
18	Point	C L NORSWORTHY JR	PERRY FEDERAL 001	32.535922	-103.564139	3002502486	33	20.05	34E	330	N		2310	E		Plugged	
19	Point	FULFER OIL & CATTLE LLC	KINNEY 001	32.535016	-103.553378	3002502487	34	20.05	34E	660	N		990	W		Active	
20	Point	OLEN F FEATHERSTONE	ROACH FEDERAL 001	32.530484	-103.542642	3002502488	34	20.05	34E	2310	N		990	E		Plugged	
21	Point	OLSEN ENERGY INC	B V LYNCH A FEDERAL 008	32.526843	-103.541556	3002502489	34	20.05	34E	1651	S		660	E		Plugged	
22	Point	MAS OPERATING CO.	B V LYNCH A FEDERAL 009	32.532296	-103.549067	3002502490	34	20.05	34E	1650	N		2310	W		Active	
23	Point	OLSEN ENERGY INC	B V LYNCH A FEDERAL 011	32.53139	-103.545873	3002502491	34	20.05	34E	1980	N		1980	E		Plugged	
24	Point	MAS OPERATING CO.	B V LYNCH A FEDERAL 012	32.535927	-103.540506	3002502492	34	20.05	34E	330	N		330	E		Active	
25	Point	MAS OPERATING CO.	B V LYNCH A FEDERAL 002	32.524119	-103.541548	3002502494	34	20.05	34E	660	S		660	E		Active	
26	Point	MAS OPERATING CO.	B V LYNCH A FEDERAL 003	32.535018	-103.545883	3002502495	34	20.05	34E	660	N		1980	E		Active	
27	Point	TEXAS CO	B V LYNCH A 004	32.531391	-103.541569	3002502496	34	20.05	34E	1980	N		660	E		Plugged	
28	Point	TEXACO EXPLORATION & PRODUCTION INC	B V LYNCH A FEDERAL 005	32.524119	-103.545852	3002502497	34	20.05	34E	660	S		1980	E		Plugged	
29	Point	TEXACO EXPLORATION & PRODUCTION INC	LYNCH PERMIT B 001	32.531388	-103.554444	3002502498	34	20.05	34E	1980	N		660	W		Plugged	
30	Point	ATLANTIC RICHFIELD	FLETCHER A DE FEDERA 001	32.534114	-103.536197	3002502503	35	20.05	34E	990	N		990	W		Plugged	
31	Point	C W TRAINER	LYNCH A 001	32.532312	-103.534015	3002502504	35	20.05	34E	330	S		1650	W		Plugged	
32	Point	BURK ROYALTY CO., LTD.	W H MILNER FEDERAL 002	32.52684	-103.534025	3002502505	35	20.05	34E	1650	S		1650	W		Active	
33	Point	BURK ROYALTY CO., LTD.	W H MILNER FEDERAL 003	32.530486	-103.534035	3002502506	35	20.05	34E	2310	N		1650	W		Active	
34	Point	BURK ROYALTY CO., LTD.	W H MILNER FEDERAL 004	32.534115	-103.534046	3002502507	35	20.05	34E	990	N		1650	W		Active	
35	Point	OLSEN ENERGY INC	B V LYNCH A FEDERAL 006	32.524119	-103.538321	3002502508	35	20.05	34E	660	S		330	W		Plugged	
36	Point	MAS OPERATING CO.	B V LYNCH A FEDERAL 007	32.52684	-103.536177	3002502509	35	20.05	34E	1650	S		990	W		Active	
37	Point	HUDSON OIL COMPANY OF TEXAS	FEDERAL 001	32.530486	-103.536187	3002502510	35	20.05	34E	2310	N		990	W		Plugged	
38	Point	PAUL H LAVERTY	RALPH A SHUGART 004	32.521397	-103.533517	3002502624	1	21.05	33E	330	N		330	W		Plugged	
39	Point	MALLARD PETROLEUM	MOORE STATE 002	32.521398	-103.544252	3002502632	2	21.05	33E	330	N		2310	W		Plugged	
40	Point	MALLARD PETROLEUM	MOORE STATE 001	32.517769	-103.544243	3002502633	2	21.05	33E	1650	N		2310	W		Plugged	
41	Point	B N MUNCY JR	LEA STATE 002	32.515952	-103.537825	3002502634	2	21.05	33E	2311	N		990	E		Plugged	
42	Point	R DECHICCHIS	STATE A 004	32.513234	-103.541055	3002502635	2	21.05	33E	3300	N		1980	E		Plugged	
43	Point	B N MUNCY JR	LEA STATE 003	32.520491	-103.541047	3002502636	2	21.05	33E	660	N		1980	E		Plugged	
44	Point	R DECHICCHIS	STATE A 002	32.51413	-103.537827	3002508343	2	21.05	33E	4950	S		990	E		Plugged	
45	Point	ARCO PERMIAN	FLETCHER A DE FEDERAL 004	32.542275	-103.545903	3002508459	27	20.05	34E	1980	S		1980	E		Plugged	
46	Point	CHESTNUT EXPLORATION AND PRODUCTION, INC	D AND E FEDERAL 002	32.550456	-103.547001	3002508460	27	20.05	34E	330	N		2310	E		Active	
47	Point	MAS OPERATING CO.	B V LYNCH B FEDERAL 002	32.538645	-103.550158	3002508461	27	20.05	34E	660	S		1980	W		Active	
48	Point	EDWARD E KINNEY	GULF FEDERAL 002	32.537739	-103.545891	3002508464	27	20.05	34E	330	S		1980	E		Plugged	
49	Point	BURK ROYALTY CO., LTD.	KEOHANE A 001	32.53774	-103.544815	3002508465	27	20.05	34E	330	S		1650	E		Plugged	
50	Point	MAS OPERATING CO.	B V LYNCH A FEDERAL 001	32.528655	-103.546941	3002512550	34	20.05	34E	2310	S		2310	E		Active	
51	Point	MAS OPERATING CO.	B V LYNCH A FEDERAL 010	32.535017	-103.550515	3002512580	34	20.05	34E	660	N		1980	W		Active	

52 Point	SUNDOWN ENERGY LP	GULF DE FEDERAL 001	32.538644	-103.554463	3002520071	27	20.05	34E	660 S	660 W	Plugged
53 Point	ARLEN I EDGAR	FEDERAL C 001	32.535022	-103.532972	3002523578	35	20.05	34E	660 N	1980 W	Plugged
54 Point	E O B ENERGY CORP	LEA STATE 006	32.520491	-103.537308	3002523653	2	21.05	33E	660 N	833 E	Plugged
55 Point	HARVARD PETROLEUM COMPANY, LLC	FLETCHER FEDERAL 001	32.541366	-103.55447	3002525566	27	20.05	34E	1650 S	660 W	Active
56 Point	WALLEN PRODUCTION CO	WALLEN KINNEY 001	32.535923	-103.55338	3002526164	34	20.05	34E	330 N	990 W	Plugged
57 Point	YATES PETROLEUM CORPORATION	WEST LYNCH DEEP UNIT 001	32.538643	-103.564147	3002526952	28	20.05	34E	660 S	2310 E	Plugged
58 Point	C W TRAINER	LYNCH 001	32.518704	-103.539517	3002528785	2	21.05	33E	1310 N	1510 E	Plugged
59 Point	OLSEN ENERGY INC	FLETCHER A FED 001	32.535927	-103.538191	3002530471	35	20.05	34E	330 N	380 W	Plugged
60 Point	STEVEN D RUPPERT	SILVER FEDERAL 002	32.540952	-103.561838	3002531441	28	20.05	34E	1500 S	1600 E	Active
61 Point	OGS OPERATING CO INC	GOB 33 FEDERAL 001	32.532294	-103.56338	3002534627	33	20.05	34E	1650 N	2080 E	
62 Point	TEXAS CO	STATE OF NEW MEXICO 001	32.52049	-103.536744	3002536211	2	21.05	33E	660 N	660 E	Plugged
63 Point	EOG RESOURCES INC	CHUKAR 87A FEDERAL COM 001+	32.539565	-103.557392	3002541294	28	20.05	34E	1110 S	200 E	New (Not drilled or compl)
64 Point	COG OPERATING LLC	MAF FEDERAL 003H	32.535972	-103.547016	3002542950	34	20.05	34E	190 N	2310 E	

SECTION 34, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION:

TRAVELING EAST ON ST. HWY #176 TURN LEFT (NORTHWEST) ON CO. RD. #27 (SKEEN RD.) APPROX 0.4 MILES PAST MILE MARKER 11 AND GO APPROX. 0.4 MILES; THEN TURN LEFT (WEST) AND GO APPROX 0.2 MILES; THEN TURN RIGHT (NORTH) AND GO APPROX. 0.4 MILES; THEN TURN LEFT (NORTHNORTHWEST) AND GO APPROX. 0.2 MILES; PROPOSED TANK BATTERY LIES APPROX. 320 FEET EAST.

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
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c.harcrow@harcrowsurveying.com

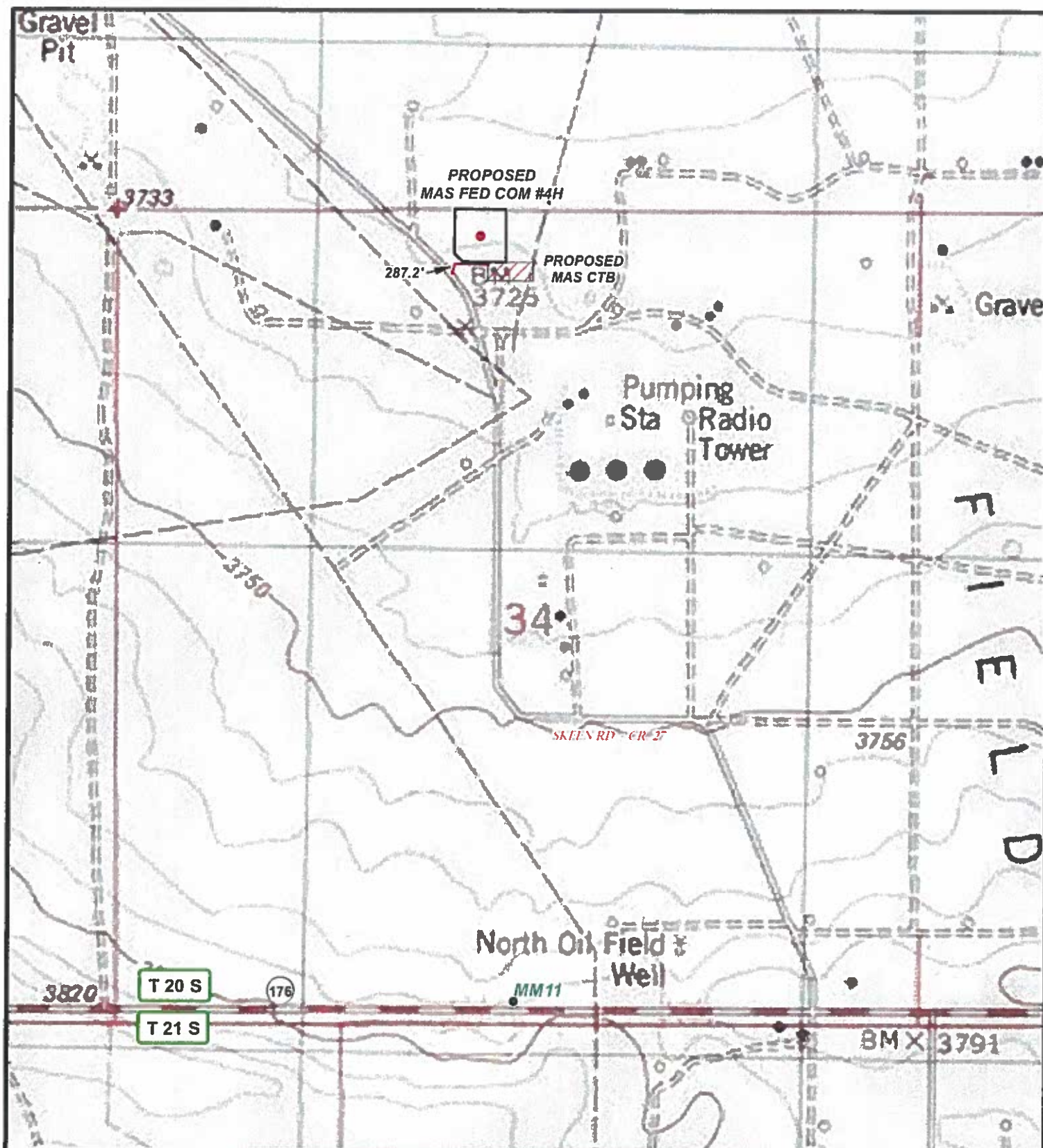


100 0 100 200 Feet
Scale: 1"=100'

COG OPERATING, LLC

MAS CENTRAL TANK BATTERY
LOCATED 423 FEET FROM THE NORTH LINE
AND 2640 FEET FROM THE WEST LINE OF SECTION 34,
TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: SEPT. 9, 2016	PAGE: 1 OF 1
DRAFTING DATE: SEPT. 12, 2016	
APPROVED BY: CH	DRAWN BY: JR
FILE: 16-709	



LEGEND

- WELL
- WELLPAD
- CENTRAL TANK BATTERY
- PROPOSED ROAD

MAS CENTRAL TANK BATTERY

SEC: 34	TWP: 20 S.	RGE: 34 E.	ELEVATION: 3721.1'
STATE: NEW MEXICO	COUNTY: LEA	423' FNL & 2640' FWL	
W.O. # 16-709	LEASE: MAS	SURVEY: N.M.P.M	



LOCATION MAP

TOPO

9/13/2016

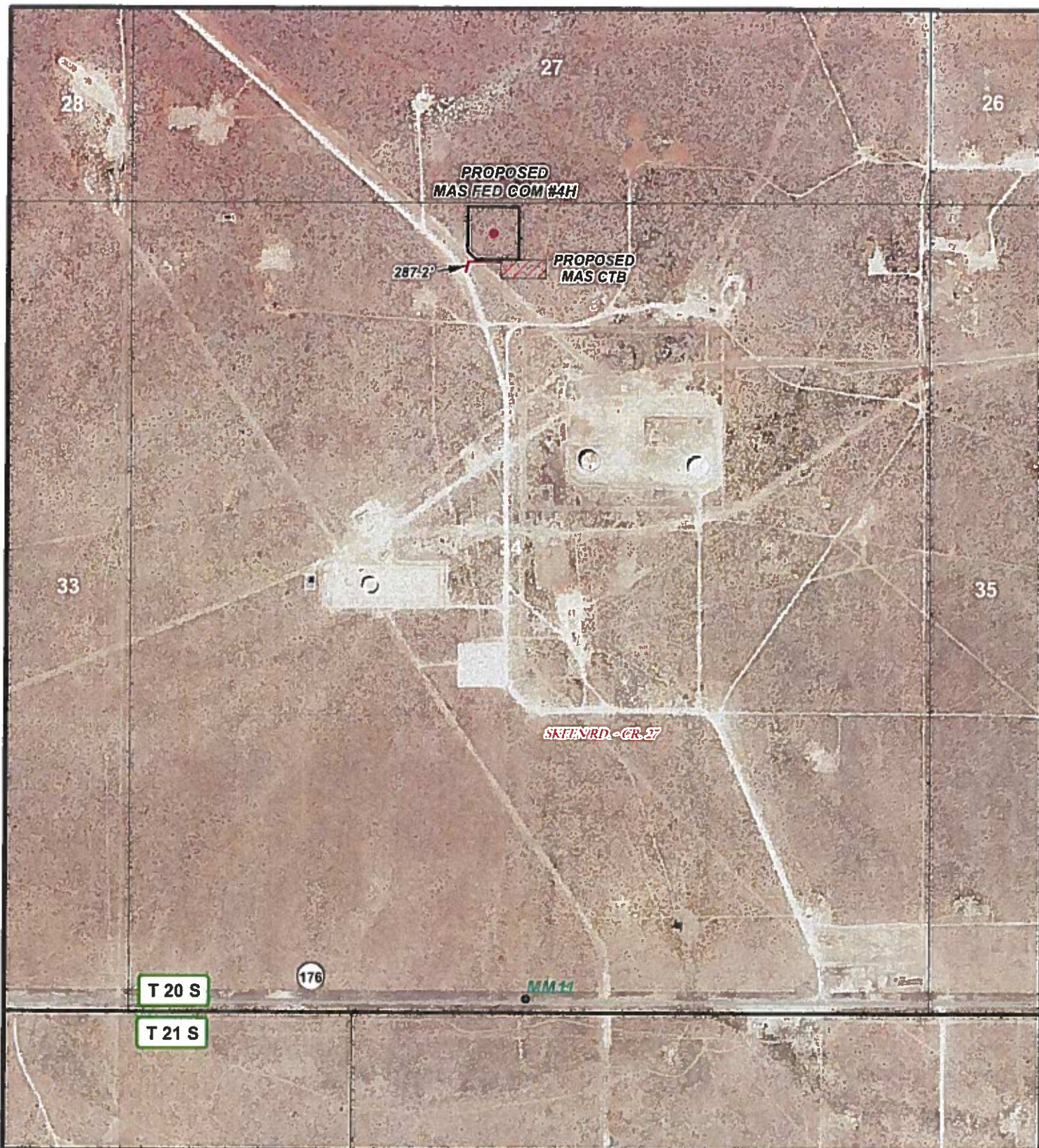
JR



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LEGEND

- WELL
- WELLPAD
- CENTRAL TANK BATTERY
- PROPOSED ROAD

MAS CENTRAL TANK BATTERY

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LOCATION MAP

IMAGERY

9/13/2016

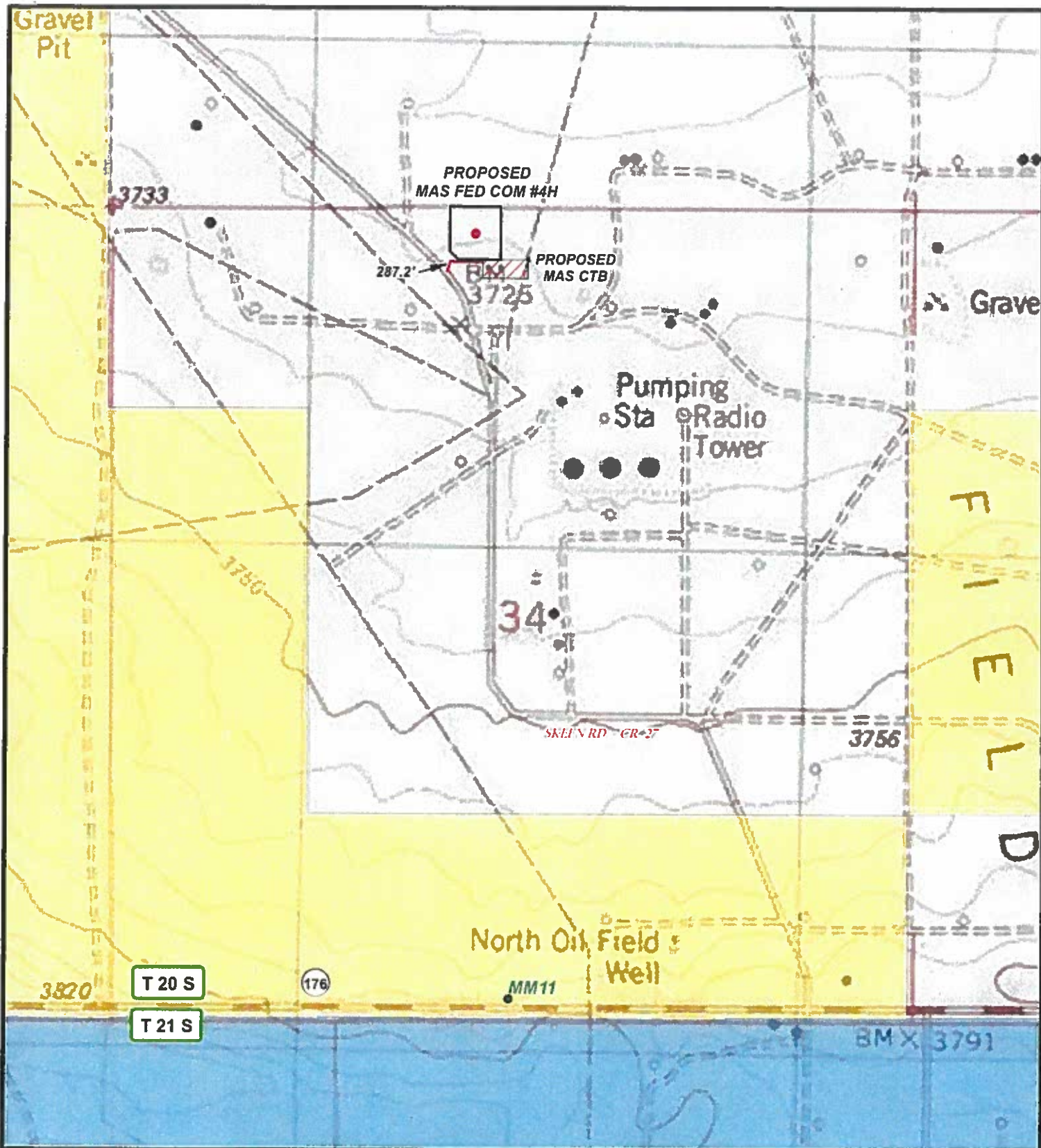
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LEGEND

- WELL
- WELLPAD
- CENTRAL TANK BATTERY
- PROPOSED ROAD
- PRIVATE
- STATE OF NM
- US BLM

MAS CENTRAL TANK BATTERY

SEC: 34	TWP: 20 S.	RGE: 34 E.	ELEVATION: 3721.1'
STATE: NEW MEXICO	COUNTY: LEA	423' FNL & 2640' FWL	
W.O. # 16-709	LEASE: MAS	SURVEY: N.M.P.M	

0 0.05 0.1 0.2 Miles 2,500 FEET

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

LOCATION MAP

LAND STATUS

9/13/2016

JR

CONCHO

COG OPERATING, LLC



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