

WHITE FALCON 16
FED COM #22H
226' FNL & 1940' FWL
ELEV: 3246.5'
WO: 17-270
17

WHITE FALCON 16
FED COM #11H
226' FNL & 1980' FWL
ELEV: 3246.7'
WO: 17-271
16

WHITE FALCON 16
FED COM #21H
226' FNL & 2020' FWL
ELEV: 3246.5'
WO: 17-272
15

LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

WHITE FALCON 16 FED COM WELL GROUP

SECTION: 16	TOWNSHIP: 25 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 17-270-272	LEASE: WHITE FALCON 16 FED COM	



LOCATION MAP

VICINITY

3/17/2017

S.P.

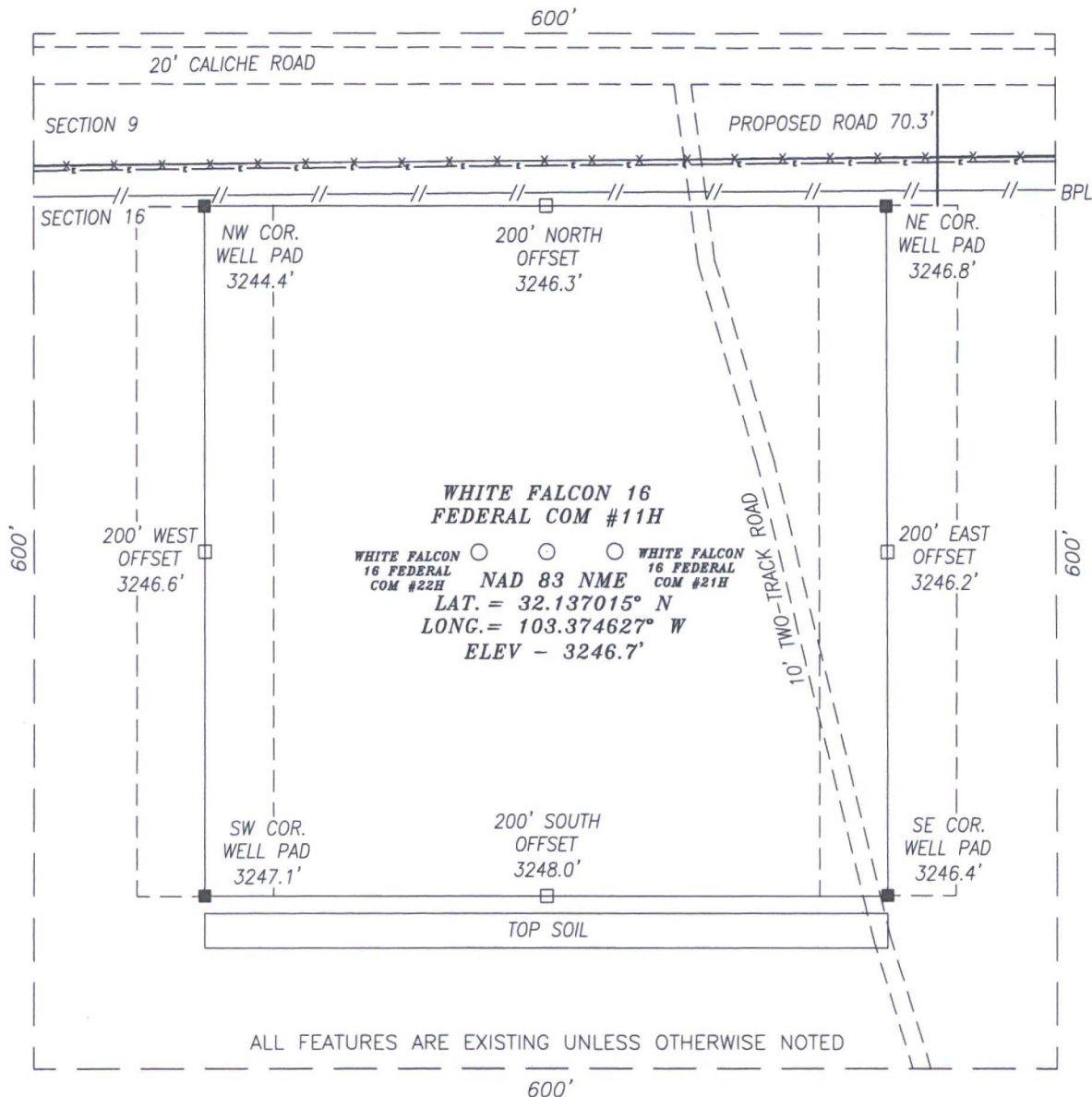
CONCHO
COG OPERATING, LLC

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

SECTION 16, TOWNSHIP 25 SOUTH, RANGE 35 EAST, N.M.P.M.,

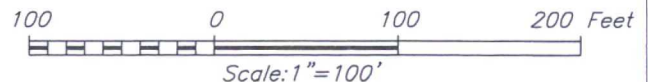
LEA COUNTY

NEW MEXICO



DIRECTIONS TO LOCATION

HEADING EASTERLY ON HIGHWAY 128 TURN RIGHT (SOUTHERLY) APPROX. 0.6 MI. PAST MM 38 AND GO APPROX. 2.3 MI.; THEN TURN LEFT (EASTERLY) AND GO APPROX. 3.0 MI.; THEN TURN RIGHT (SOUTHERLY) AND GO APPROX. 1.0 MI.; THEN TURN RIGHT (WESTERLY) AND GO APPROX. 0.5 MI.; PROPOSED WELL LIES APPROX. 285 FEET LEFT (SOUTH).



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COG OPERATING, LLC

WHITE FALCON 16 FEDERAL COM #11H
LOCATED 226 FEET FROM THE NORTH LINE
AND 1980 FEET FROM THE WEST LINE OF SECTION 16,
TOWNSHIP 25 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: MARCH 8, 2017

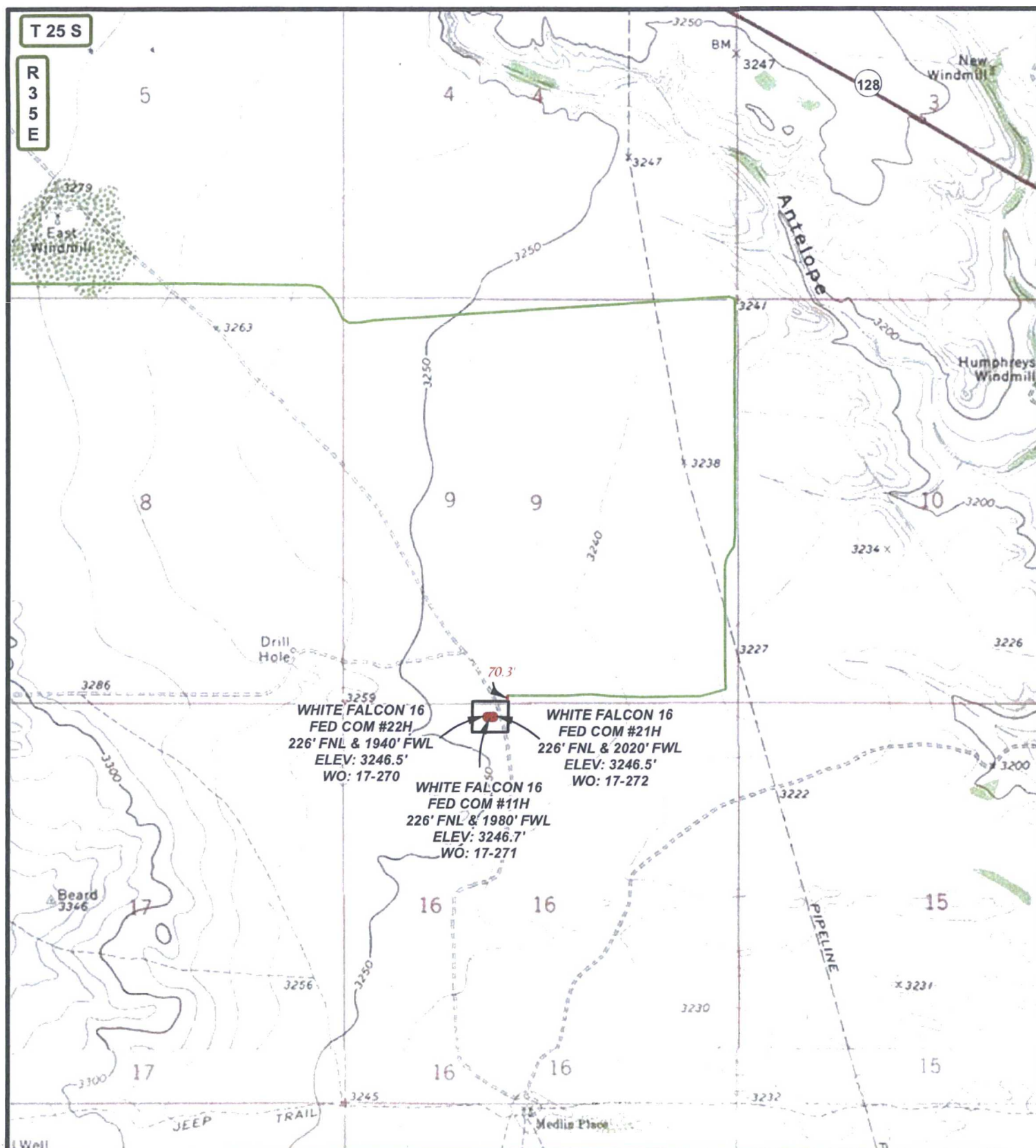
PAGE: 1 OF 1

DRAFTING DATE: MARCH 14, 2017

APPROVED BY: CH

DRAWN BY: SA

FILE: 17-271



LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

WHITE FALCON 16 FED COM WELL GROUP

SECTION: 16 TOWNSHIP: 25 S. RANGE: 35 E.

STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.

W.O. # 17-270-272 LEASE: WHITE FALCON 16 FED COM

0 2,500 5,000 FEET

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

LOCATION MAP

TOPO

3/17/2017

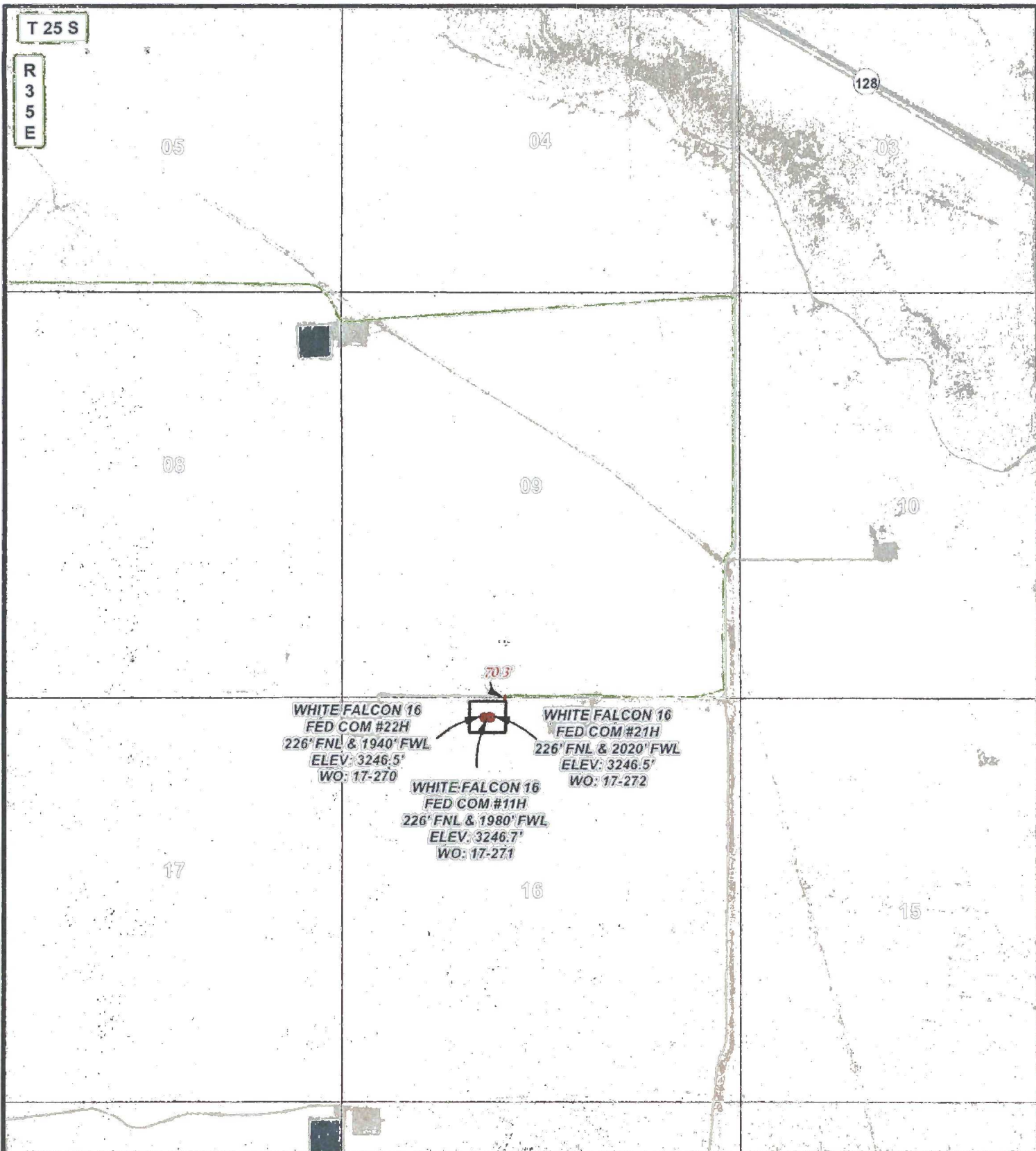
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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

WHITE FALCON 16 FED COM WELL GROUP

SECTION: 16 TOWNSHIP: 25 S. RANGE: 35 E.

STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M

W.O. # 17-270-272 LEASE: WHITE FALCON 16 FED COM

0 2,500 5,000 FEET

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

LOCATION MAP

IMAGERY

3/17/2017

S.P.

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WHITE FALCON 16
FED COM #22H
226' FNL & 1940' FWL
ELEV: 3246.5'
WO: 17-270

WHITE FALCON 16
FED COM #11H
226' FNL & 1980' FWL
ELEV: 3246.7'
WO: 17-271

WHITE FALCON 16
FED COM #21H
226' FNL & 2020' FWL
ELEV: 3246.5'
WO: 17-272

70.3'

LEGEND



WELL



WELLPAD



EXISTING ROAD



PROPOSED ROAD

WHITE FALCON 16 FED COM WELL GROUP

SECTION: 16

TOWNSHIP: 25 S.

RANGE: 35 E.

STATE: NEW MEXICO

COUNTY: LEA

SURVEY: N.M.P.M

W.O. # 17-270-272

LEASE: WHITE FALCON 16 FED COM

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

IMAGERY ROAD

3/17/2017

S.P.

COG OPERATING, LLC

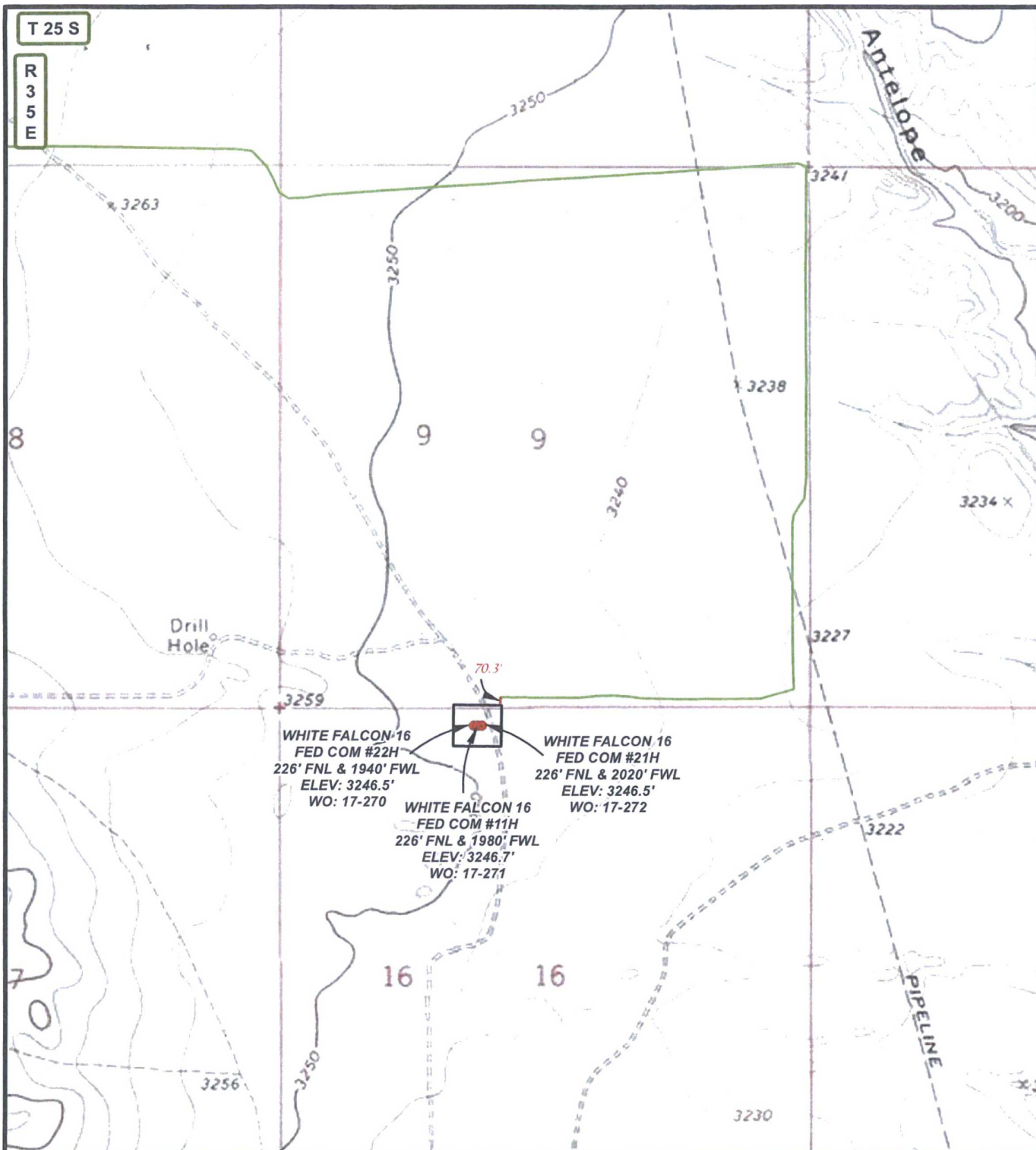


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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

WHITE FALCON 16 FED COM WELL GROUP

SECTION: 16	TOWNSHIP: 25 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 17-270-272	LEASE: WHITE FALCON 16 FED COM	

0 2,500 FEET

0 0.1 0.2 0.4 Miles

1 IN = 1,500 FT

LOCATION MAP

TOPO ROAD

3/17/2017

S.P.

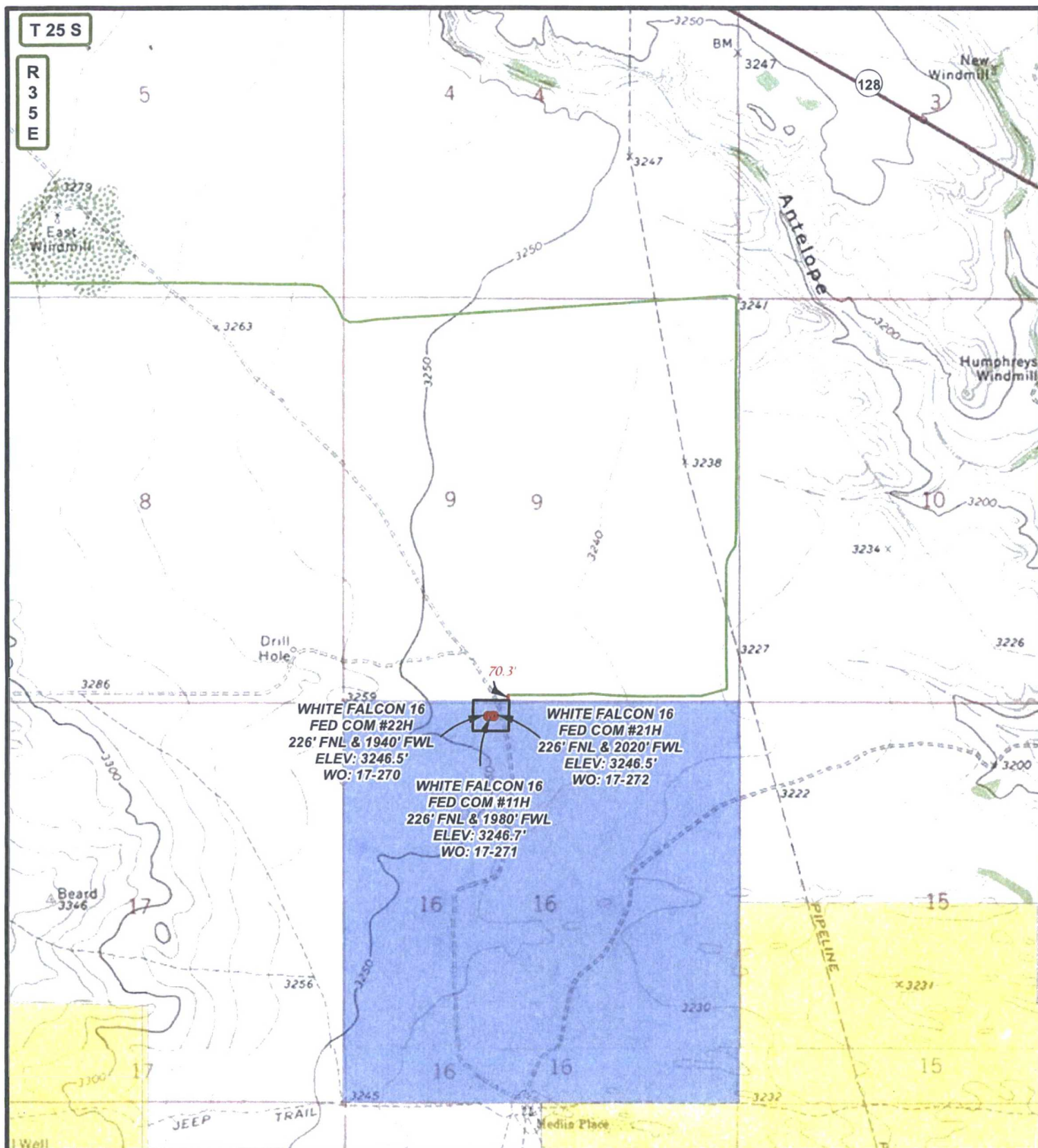
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LEGEND

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

WHITE FALCON 16 FED COM WELL GROUP

SECTION: 16 TOWNSHIP: 25 S. RANGE: 35 E.

STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.

W.O. # 17-270-272 LEASE: WHITE FALCON 16 FED COM

0 2,500 5,000 FEET

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

LOCATION MAP

LAND STATUS

3/17/2017

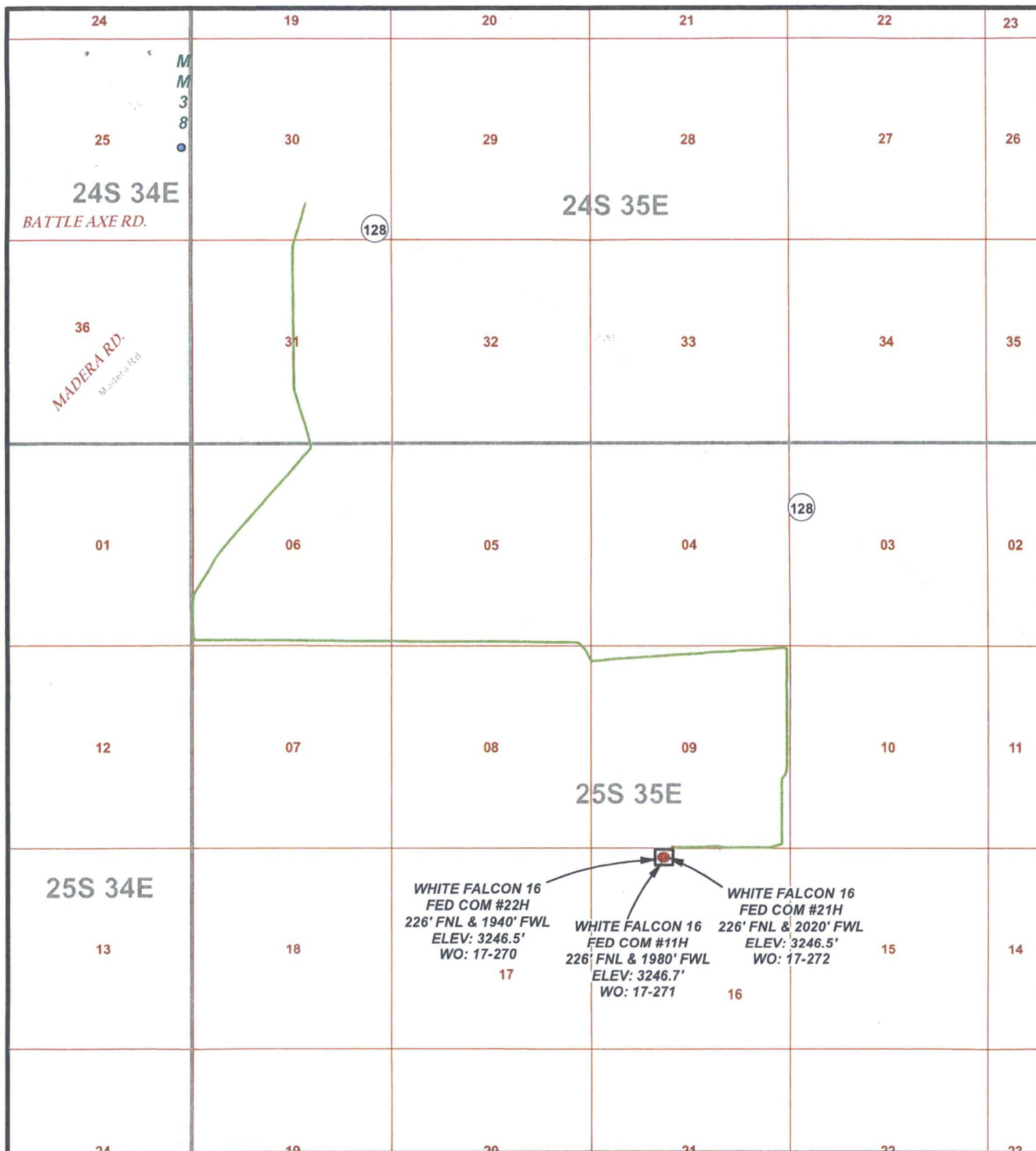
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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

WHITE FALCON 16 FED COM WELL GROUP

SECTION: 16 TOWNSHIP: 25 S. RANGE: 35 E.

STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.

W.O. # 17-270-272 LEASE: WHITE FALCON 16 FED COM

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

0 0.275 0.55 1.1 Miles 1 IN = 4,000 FT

LOCATION MAP

VICINITY

3/17/2017

S.P.

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WHITE FALCON 16
FEDERAL COM #11HFTP: 330' FNL &
1980' FWLLTP: 330' FSL &
1980' FWLBHL: 200' FSL &
1980' FWL

DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH DECEMBER 31, 2016.

LEGEND

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

WHITE FALCON FEDERAL COM #11H

SEC: 16 TWP: 25 S. RGE: 35 E. ELEVATION: 3246.5

STATE: NEW MEXICO COUNTY: LEA 226' FNL & 1980' FWL

W.O. # 17-271 LEASE: WHITE FALCON FED COM SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.175 0.35 0.7 Miles

1 IN = 2,750 FT

1 MILE MAP

03/17/2017

J.H.

CONCHO

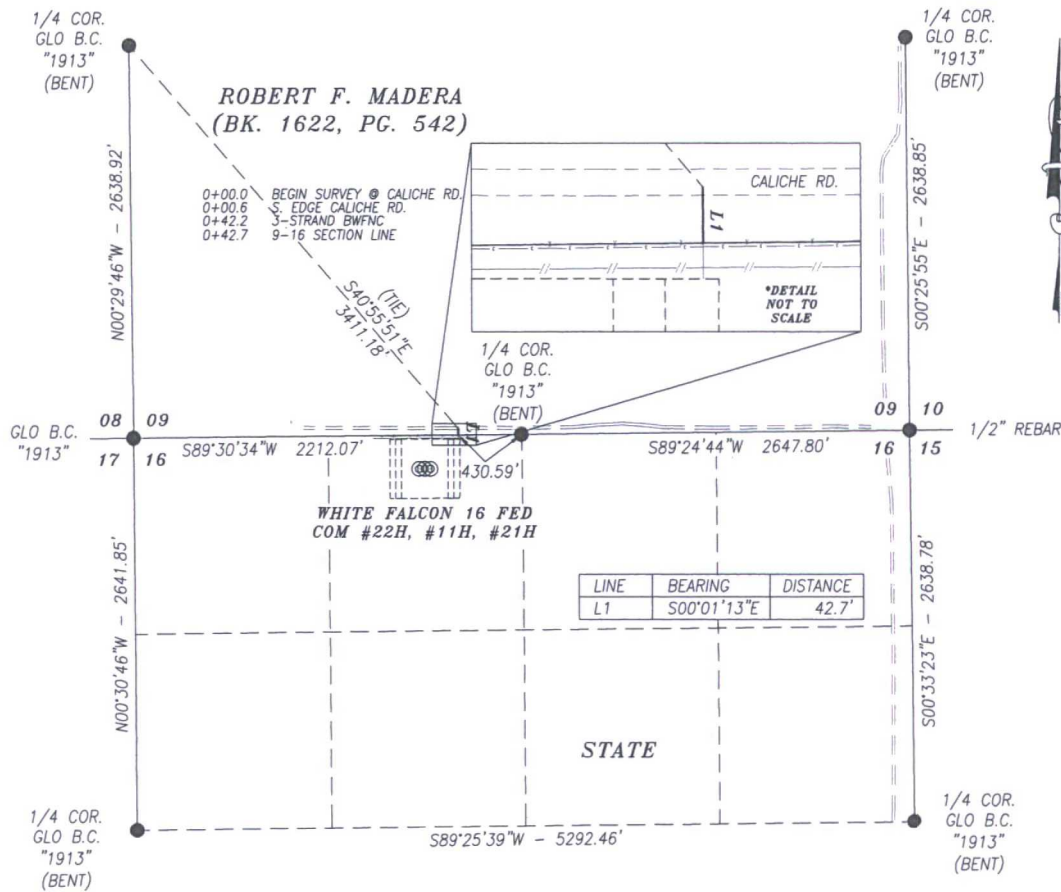
COG OPERATING, LLC



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c.harcrow@harcrowsurveying.com

ACCESS ROAD PLAT COG OPERATING, LLC.

AN ACCESS ROAD FROM AN EXISTING CALICHE ROAD TO WHITE FALCON 16 COM WELLPAD IN
SECTION 9, TOWNSHIP 25 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

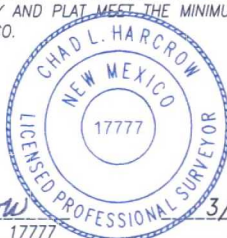
A STRIP OF LAND 30.0 FEET WIDE AND 42.7 FEET OR 2.59 RODS OR 0.008 MILES IN LENGTH CROSSING FEE LAND IN SECTION 9, TOWNSHIP 25 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

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.



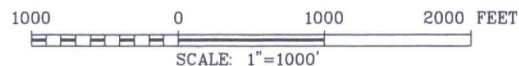
Chad Harcrow

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

3/16/17
DATE

HARCROW SURVEYING, LLC

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c.harcrow@harcrowsurveying.com



COG OPERATING, LLC

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 9, TOWNSHIP 25 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: MARCH 9, 2017

DRAFTING DATE: MARCH 14, 2017

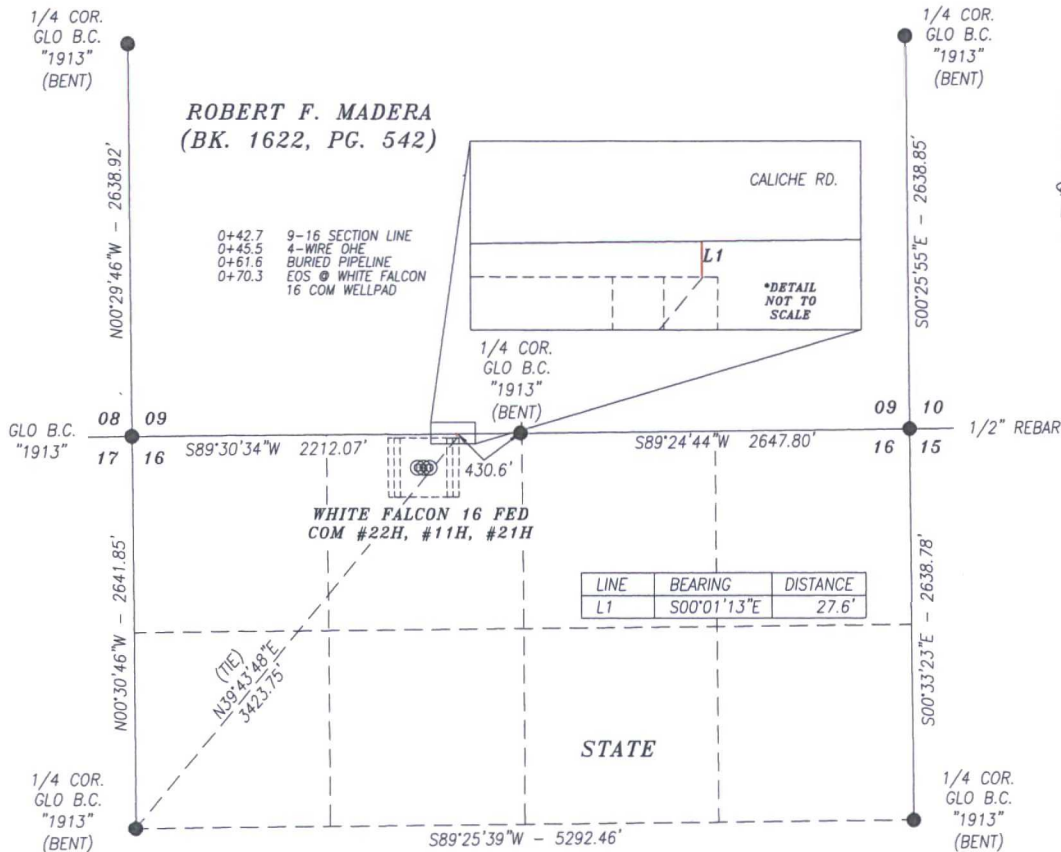
APPROVED BY: CH DRAWN BY: SA

PAGE 1 OF 2

FILE: 17-273

ACCESS ROAD PLAT COG OPERATING, LLC.

AN ACCESS ROAD FROM AN EXISTING CALICHE ROAD TO WHITE FALCON 16 COM WELLPAD IN
SECTION 16, TOWNSHIP 25 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 16, TOWNSHIP 25 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT ON THE NORTH LINE OF SAID SECTION, WHICH LIES S89°30'34"W 430.6 FEET FROM THE NORTH QUARTER CORNER OF SECTION 16; THEN S00°01'13"E 27.6 FEET, TO A POINT IN THE NE/4 NW/4 OF SECTION 16, WHICH LIES N39°43'48"E 3423.75 FEET FROM WEST QUARTER CORNER OF SECTION 16.

SAID STRIP OF LAND BEING 27.6 FEET OR 1.67 RODS IN LENGTH, CONTAINING 0.002 ACRES MORE OR LESS AND BEING ENTIRELY LOCATED WITHIN THE NE/4 NW/4 OF SECTION 16.

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.

HARCROW SURVEYING, LLC

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CERTIFICATION

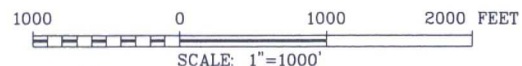
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



Chad Harcrow

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

3/16/17
DATE



COG OPERATING, LLC

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 16, TOWNSHIP 25 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: MARCH 9, 2017

DRAFTING DATE: MARCH 14, 2017

APPROVED BY: CH DRAWN BY: SA





PAGE 2 OF 2

FILE: 17-273

09
FEE
ROBERT F. MADERA
(BK. 1622, PG. 542)

PROPOSED
WHITE FALCON 16
FEDERAL COM
#22H, #11H, #21H

LEGEND

-  WELL
-  WELLPAD
-  PROP. ACCESS ROAD
-  EXISTING ROAD

WHITE FALCON 16 FED COM ACCESS ROAD

SECTIONS: 9 & 16 TOWNSHIP: 25 S. RANGE: 35 E.

STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M

W.O. # 17-273

LEASE: WHITE FALCON 16 FED COM

0 2,500 FEET

0 0.075 0.15 0.3 Miles

1 IN = 1,000 FT

ACCESS ROAD MAP

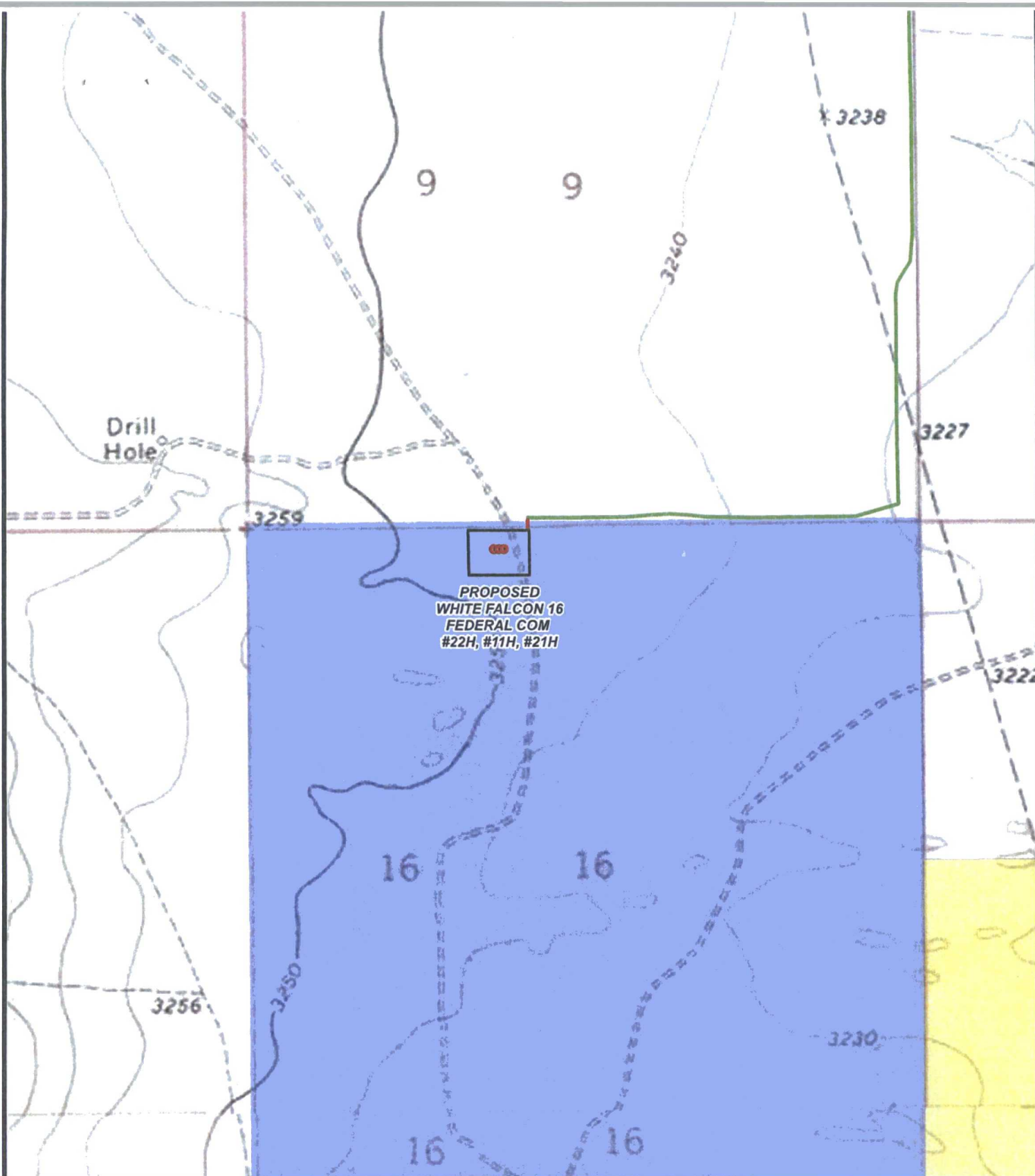
IMAGERY

03/15/17

S.A.


COG OPERATING, LLC

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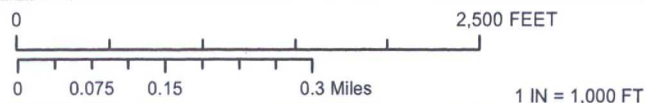


LEGEND

- WELL
- WELLPAD
- PROP. ACCESS ROAD
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

WHITE FALCON 16 FED COM ACCESS ROAD

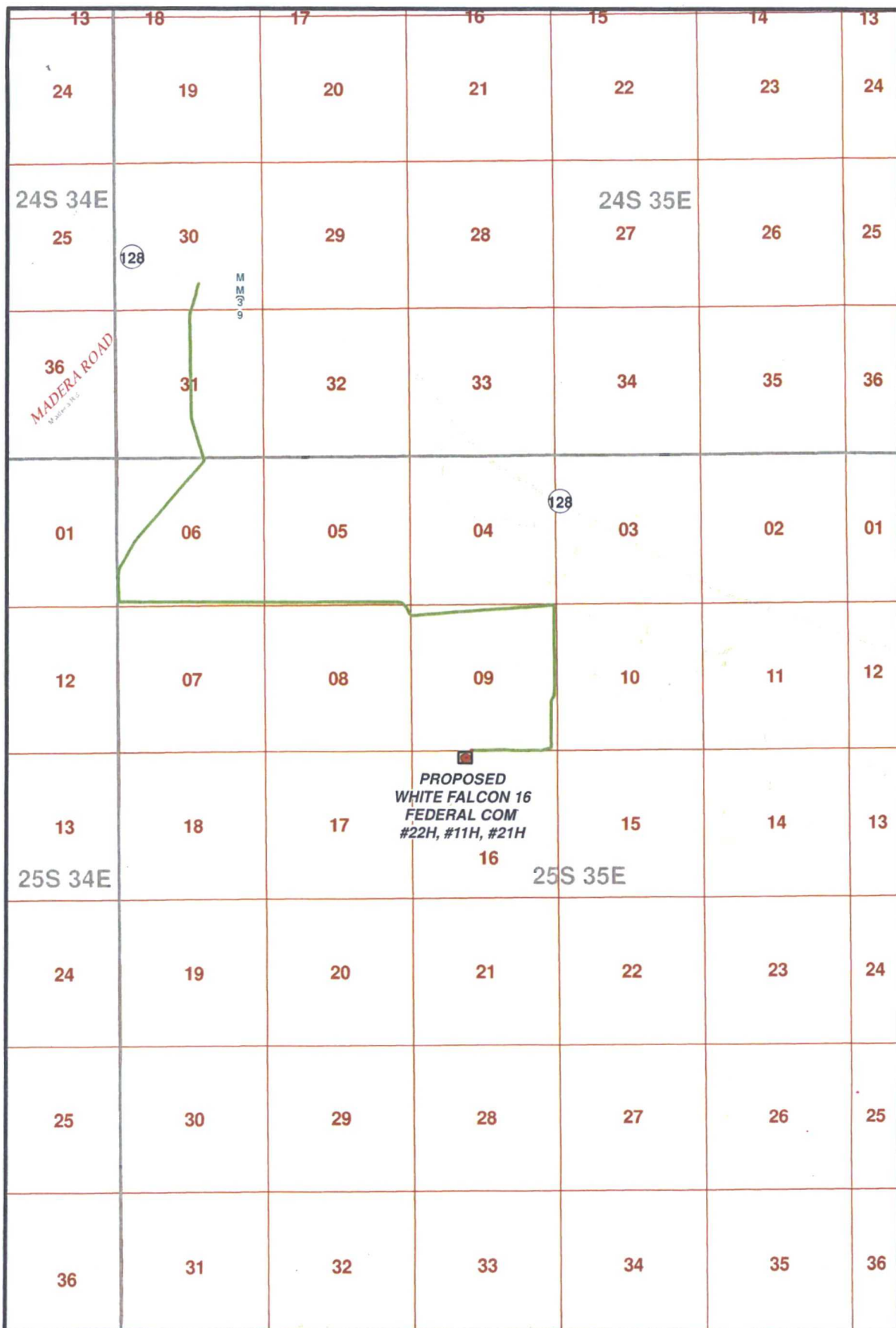
SECTIONS: 9 & 16	TOWNSHIP: 25 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 17-273	LEASE: WHITE FALCON 16 FED COM	



ACCESS ROAD MAP LAND STATUS 03/15/17 S.A.

CONCHO
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LEGEND

- WELL
- WELLPAD
- PROP. ACCESS ROAD
- EXISTING ROAD

WHITE FALCON 16 FED COM ACCESS ROAD

SECTIONS: 9 & 16 TOWNSHIP: 25 S. RANGE: 35 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.
 W.O. # 17-273 LEASE: WHITE FALCON 16 FED COM



ACCESS ROAD MAP VICINITY 03/15/17 S.A.

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WHITE FALCON 16
FEDERAL COM #11HFTP: 330' FNL &
1980' FWLLTP: 330' FSL &
1980' FWLBHL: 200' FSL &
1980' FWL

DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH DECEMBER 31, 2016.

LEGEND

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

WHITE FALCON FEDERAL COM #11H

SEC: 16 TWP: 25 S. RGE: 35 E. ELEVATION: 3246.5

STATE: NEW MEXICO COUNTY: LEA 226' FNL & 1980' FWL

W.O. # 17-271 LEASE: WHITE FALCON FED COM SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.175 0.35 0.7 Miles

1 IN = 2,750 FT

1 MILE MAP

03/17/2017

J.H.

CONCHO

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WHITE FALCON 16 FEDERAL COM #11H 1 MILE DATA (17-271)

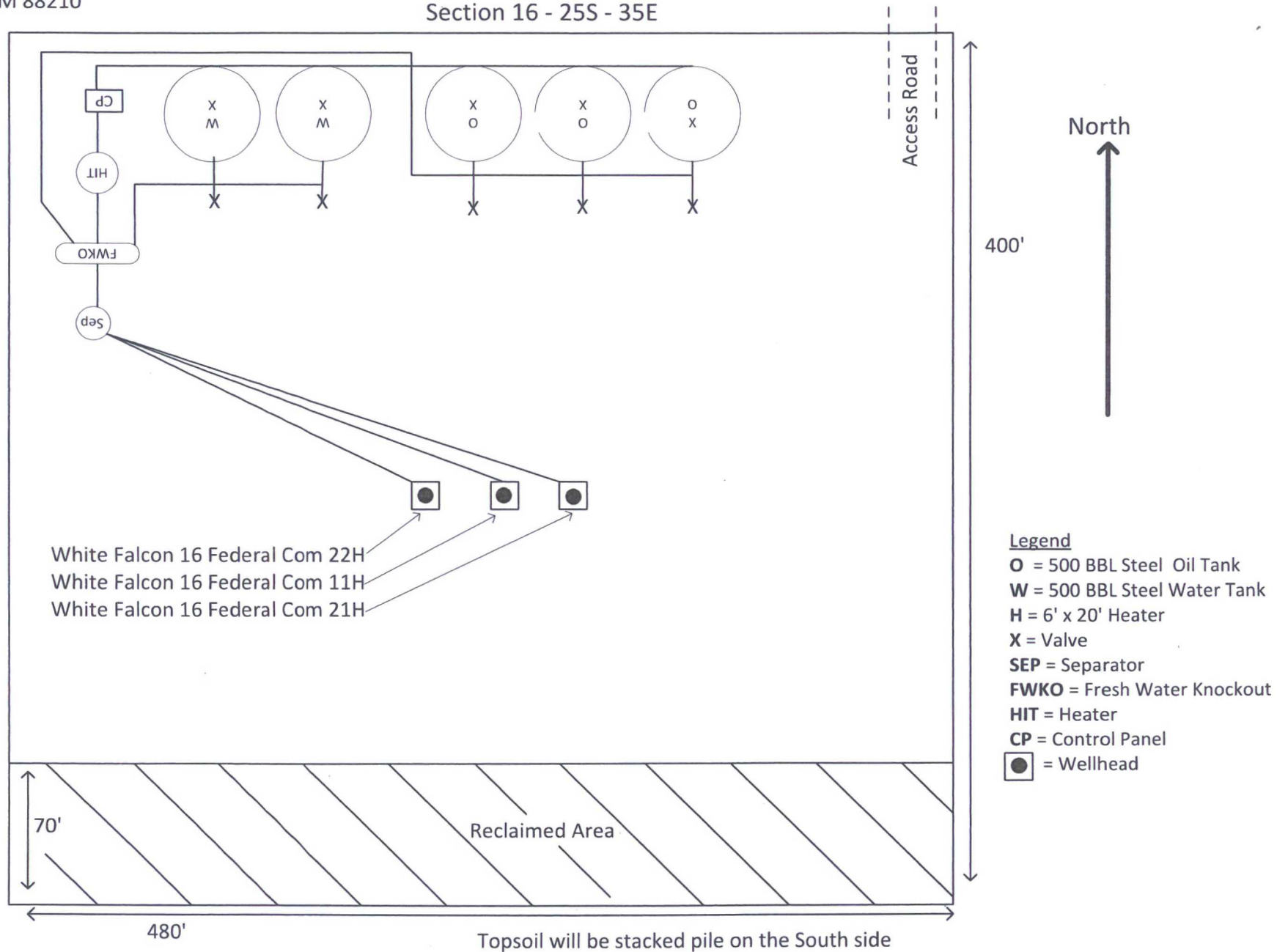
FID	OPERATOR	WELL_NAME	LATITUDE	LONGITUDE	API	SECTION	TOWNSHIP	RANGE	FTG_NS	NS_CD	FTG_EW	EW_CD	COMPL_STAT
0	SUN OIL CO	ELLIOTT FEDERAL 001	32.11041	-103.361781	3002508686	22	25.0S	35E	660 S		660 W		Plugged
1	ROBERT E. LANDRETH	RAINBOW 16 STATE COM 001	32.128558	-103.370252	3002539719	16	25.0S	35E	1980 S		1980 E		Plugged
2	ROBERT E. LANDRETH	RAINBOW 16 STATE 002	32.135798	-103.378787	3002539720	16	25.0S	35E	660 N		660 W		Plugged
3	ROBERT E. LANDRETH	CACTUS 21 FEDERAL 001	32.121318	-103.366007	3002539756	21	25.0S	35E	660 N		660 E		Active
4	COG OPERATING LLC	COACHMAN FEE 004H	32.122529	-103.379617	3002542508	21	25.0S	35E	210 N		380 W		New (Not drilled or compl)
5	EOG RESOURCES INC	WHEATFIELD 16 STATE 701H	32.136994	-103.371312	3002542520	16	25.0S	35E	230 N		2300 E		New (Not drilled or compl)
6	ENDURANCE RESOURCES LLC	WHITE FALCON 16 STATE 001H	32.136982	-103.379864	3002542757	16	25.0S	35E	230 N		330 W		New (Not drilled or compl)
7	EOG RESOURCES INC	WHEATFIELD 16 STATE 702H	32.136994	-103.371214	3002542787	16	25.0S	35E	230 N		2270 E		New (Not drilled or compl)
8	COG OPERATING LLC	COACHMAN FEE 014H	32.122582	-103.378967	3002543080	21	25.0S	35E	190 N		580 W		New (Not drilled or compl)

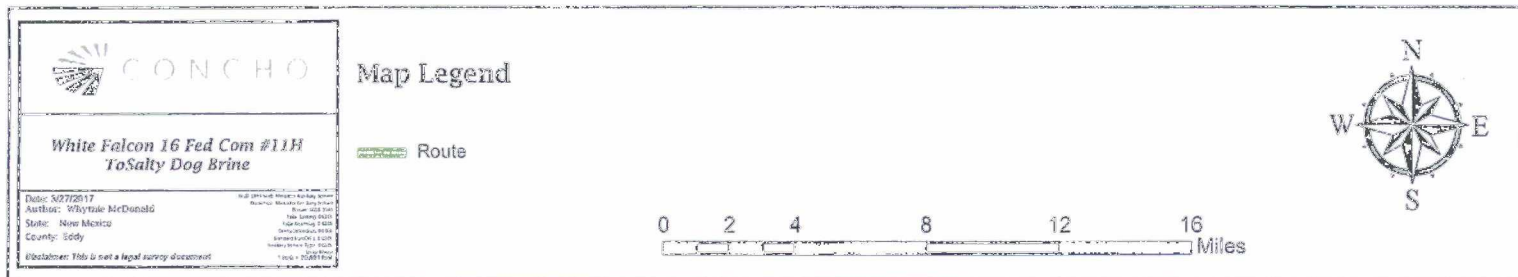
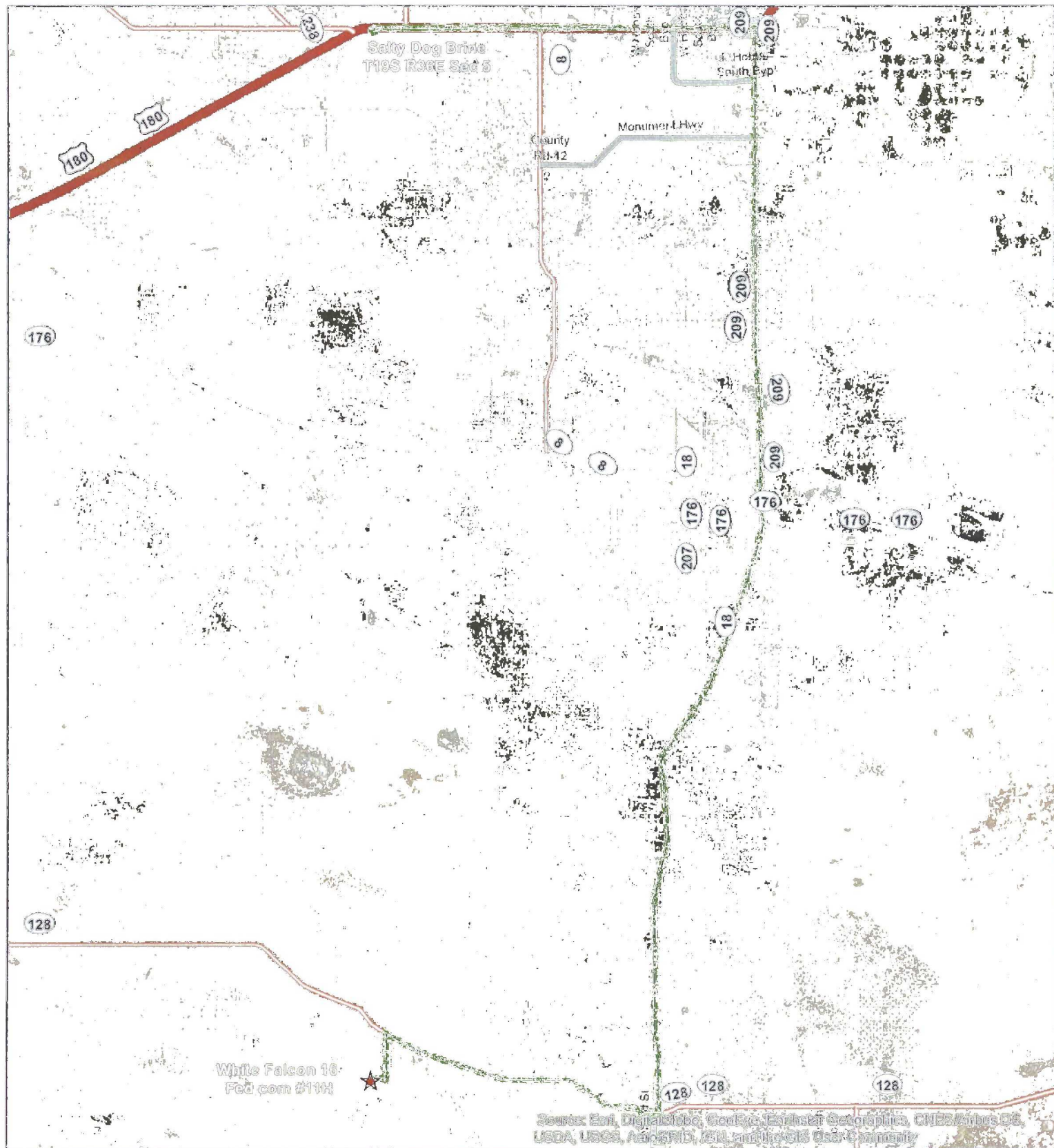


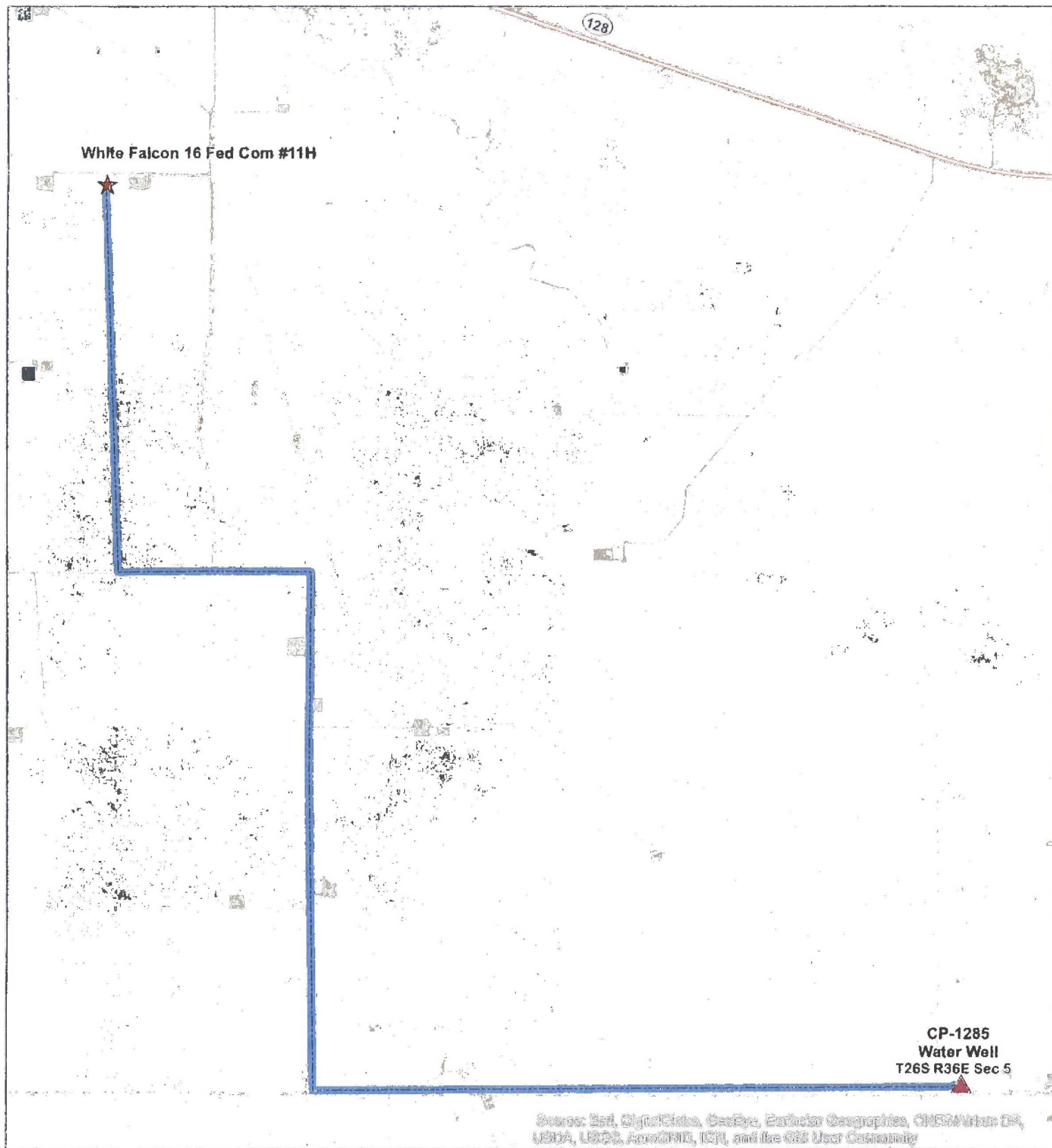
COG Operating LLC.
2208 W Main St.
Artesia, NM 88210


Well Site Layout Production Facility Layout White Falcon 16 Federal Com #11H Section 16 - 25S - 35E

Exhibit 3







 **CONCHO**

**White Falcon 16 Fed Com #11H
Water Transfer Route**

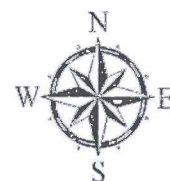
Date: 9/5/2017
Author: Waynes McDougal
State: New Mexico
County: Eddy

Disclaimer: This is not a legal survey document.

Map Legend

 Route

0 0.3 0.6 1.2 1.8 2.4 Miles

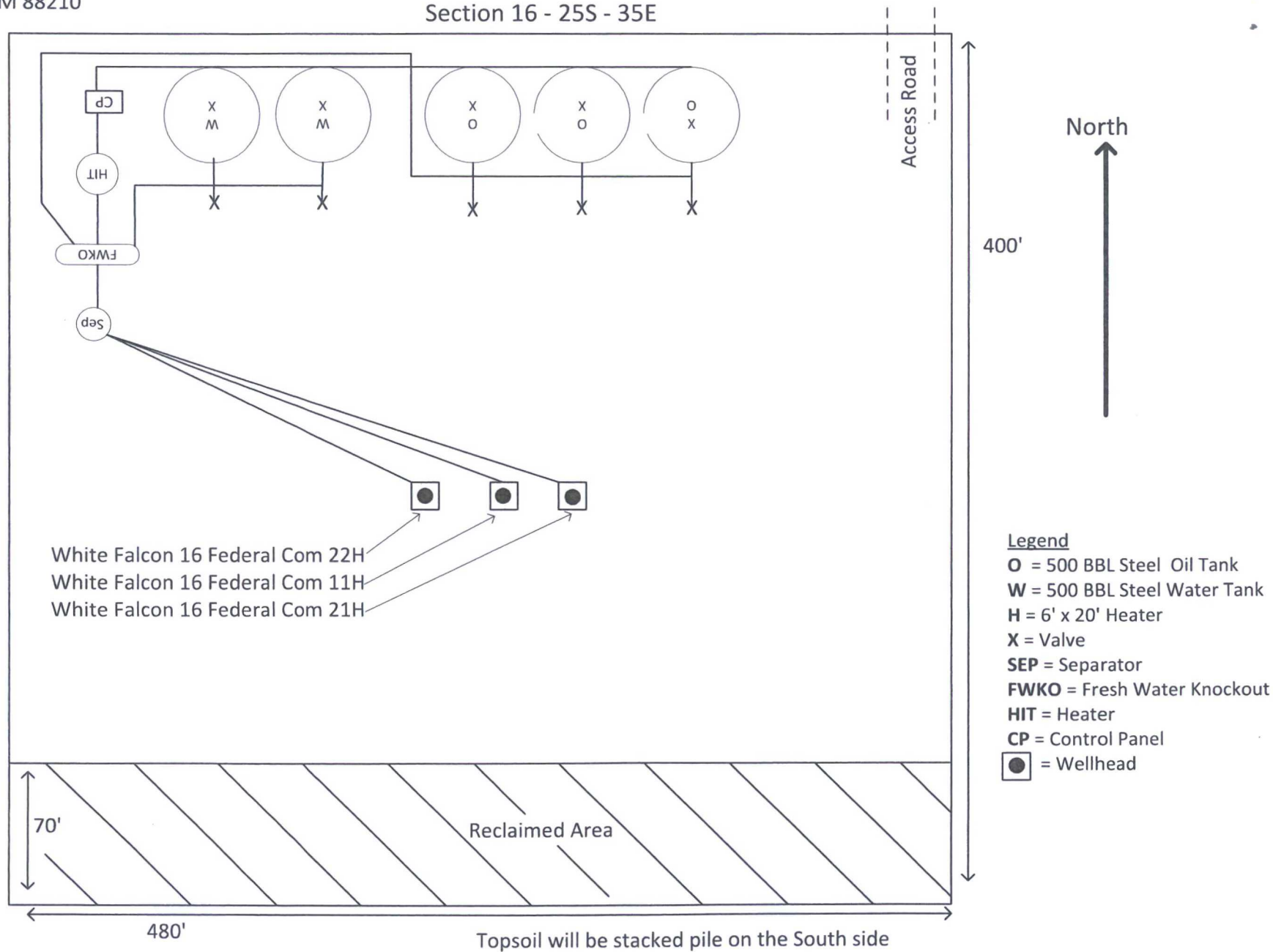


Well Site Layout

Production Facility Layout

White Falcon 16 Federal Com #11H
 Section 16 - 25S - 35E

Exhibit 3



COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

Well pad will be 400' X 400'
with cellar in center of pad

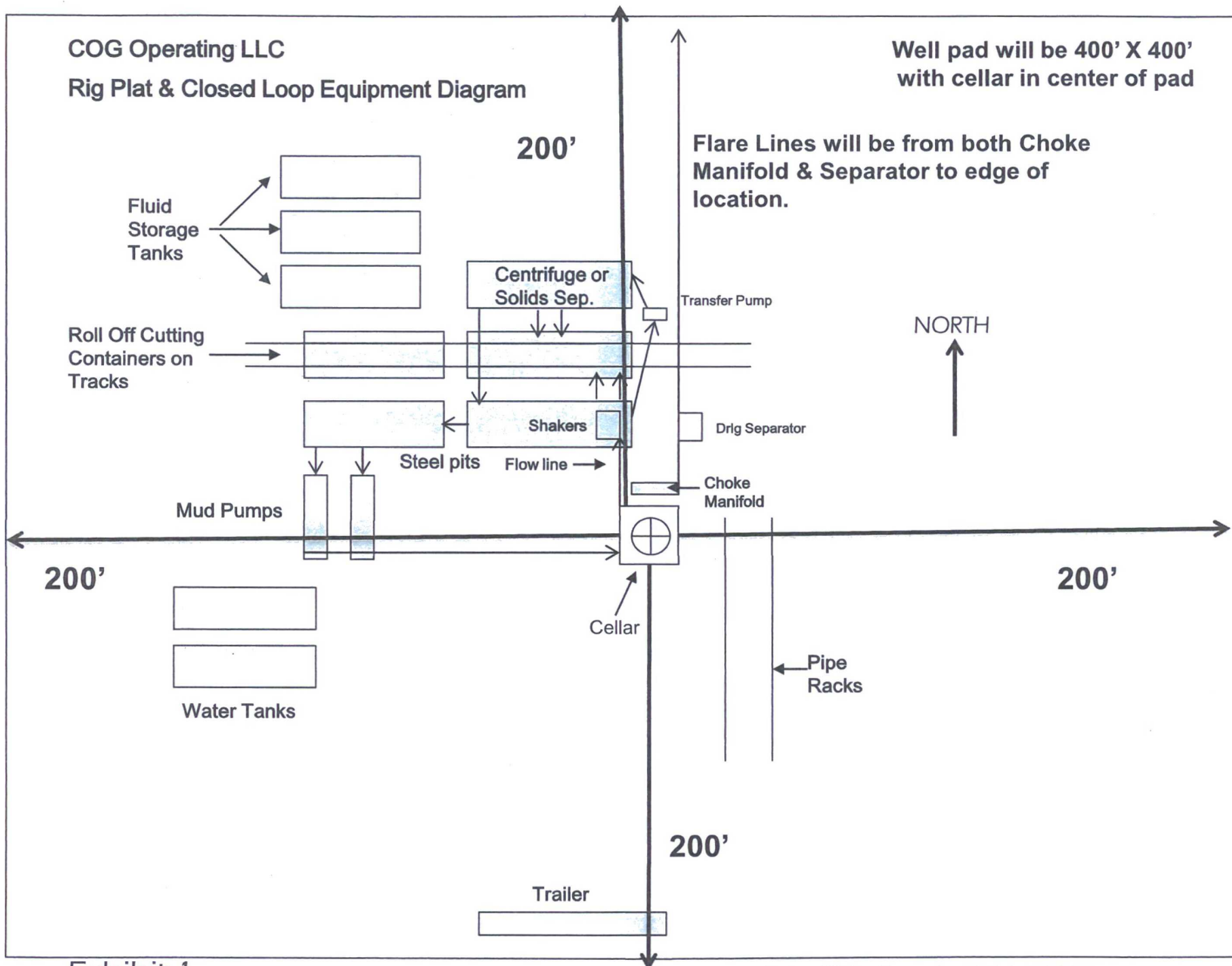


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17
NMAC by using a Closed Loop System."

• *Surface Use Plan*
COG Operating LLC
White Falcon 16 Federal Com #11H
SHL: 226' FNL & 1980' FWL UL C
Section 16, T25S, R35E
BHL: 200' FSL & 1980' FWL UL N
Section 21, T25S, R35E
Lea County, New Mexico

HOBBS OCD

AUG 21 2017

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OPERATOR CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or COG Operating LLC, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 27th day of MARCH, 2017.

Signed: Mayte Reyes

Printed Name: Mayte Reyes

Position: Regulatory Analyst

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U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report

08/15/2017

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data Report

08/15/2017

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000215

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: