

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 383-6181 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 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) 476-3482

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

HOBBS OFFICE
FEB 08 2016
RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 43069	Pool Code 97922	Pool Name WC-025 G-06 S223421L; Bone Spring
Property Code 315744	Property Name SMALLS FEDERAL	Well Number 8H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3415.8

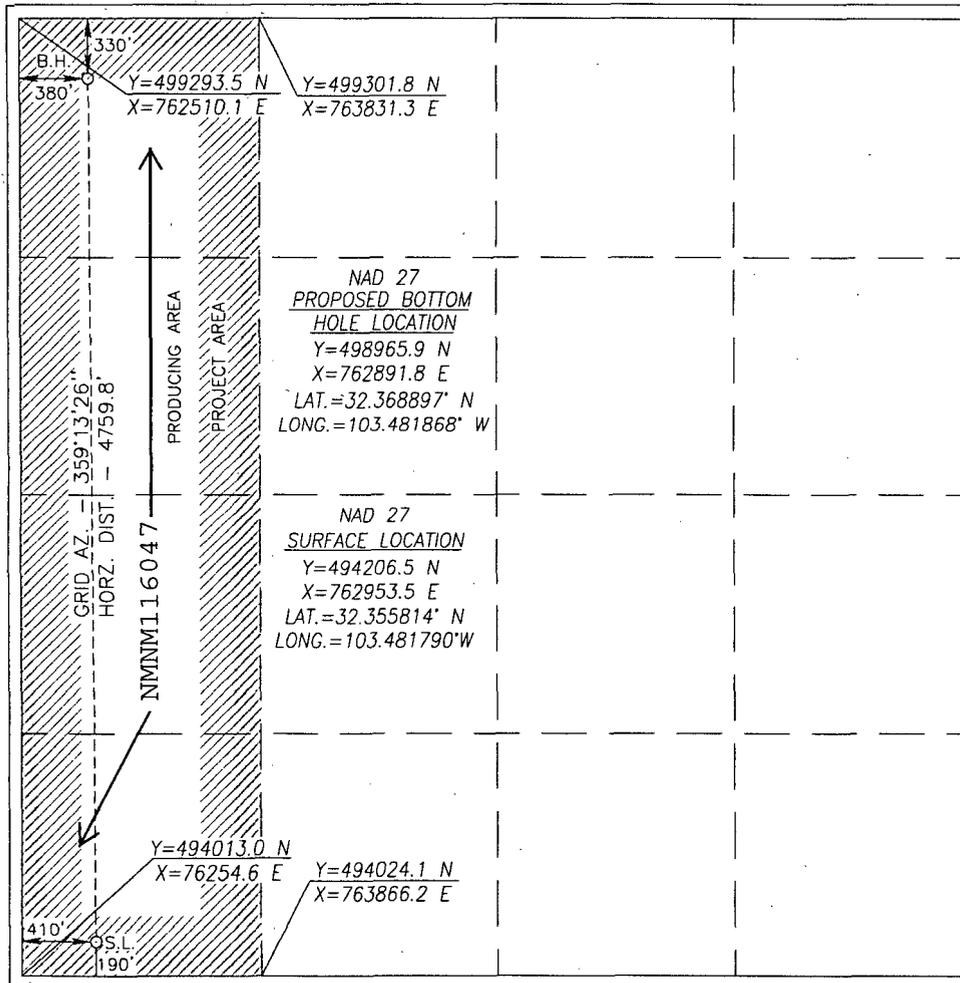
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	22-S	34-E		190'	SOUTH	410'	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
D	28	22-S	34-E		330'	NORTH	380'	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.

Melanie J Wilson 7/22/15
Signature Date
Melanie J Wilson
Printed Name
mwilson@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.

JANUARY 9, 2015
Date of Survey

Signature & Seal of Professional Surveyor

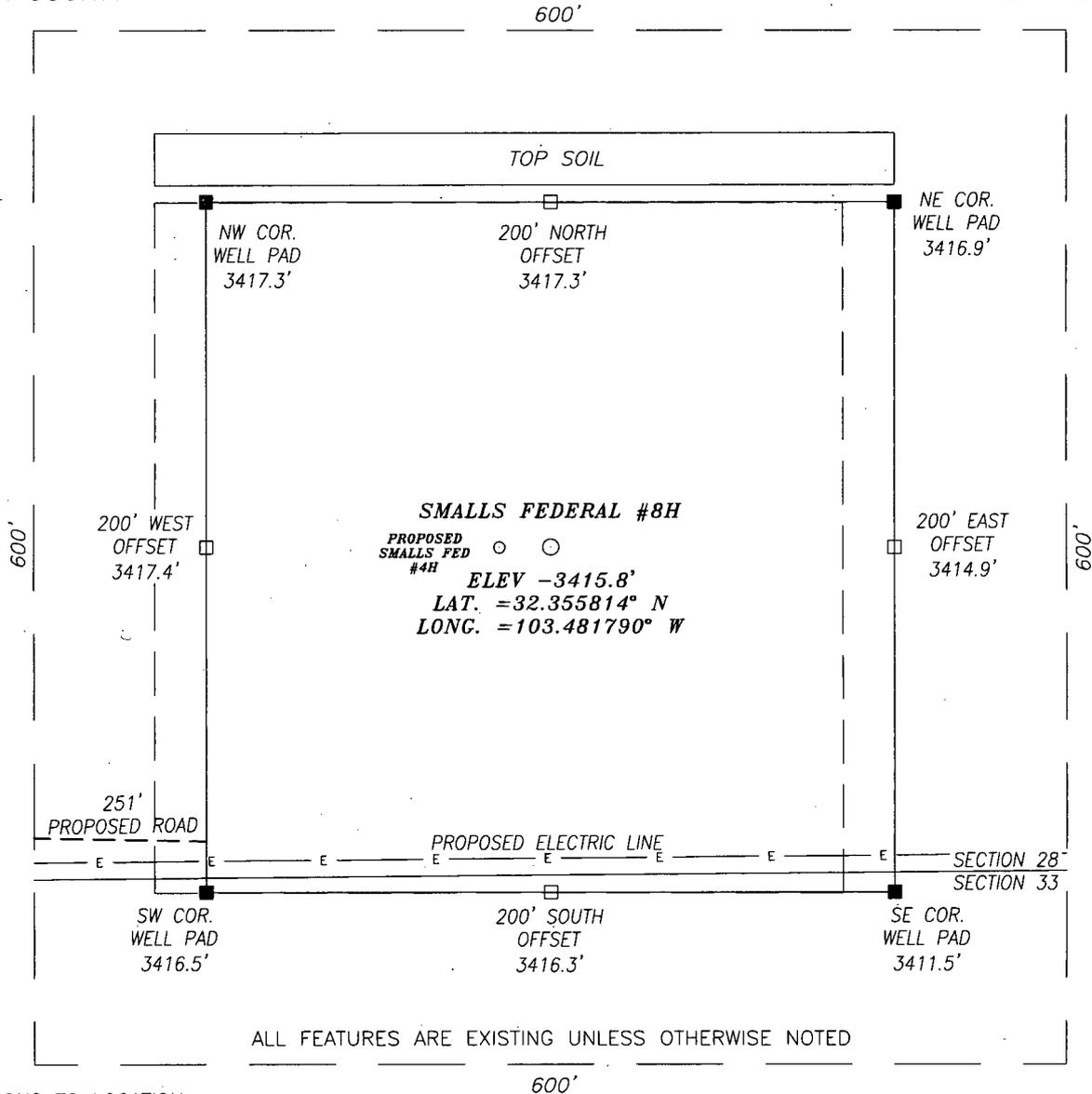
Chad L. Harcrow 2/5/15
Certificate No. CHAD HARCROW 17777
W.U. # 14-1293 DRAWN BY: AF

FEB 11 2016

SECTION 28, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M.,

LEA COUNTY

NEW MEXICO



DIRECTIONS TO LOCATION

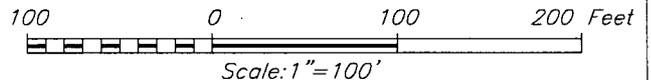
FROM THE INTERSECTION OF HWY 128 AND DELAWARE BASIN ROAD GO NORTH ON DELAWARE BASIN RD. APPROX. 9 MILES TO SHARP RIGHT TURN; THEN CONTINUE ON DELAWARE BASIN RD. APPROX. 1.5 MILES TO A CALICHE LEASE ROAD ON THE LEFT (NORTH); THEN GO ALONG LEASE ROAD APPROX. 2.0 MILES TO A PROPOSED ROAD ON THE RIGHT (EAST); PROPOSED WELL IS APPROX. 0.1 MILES ALONG PROPOSED ROAD.

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.



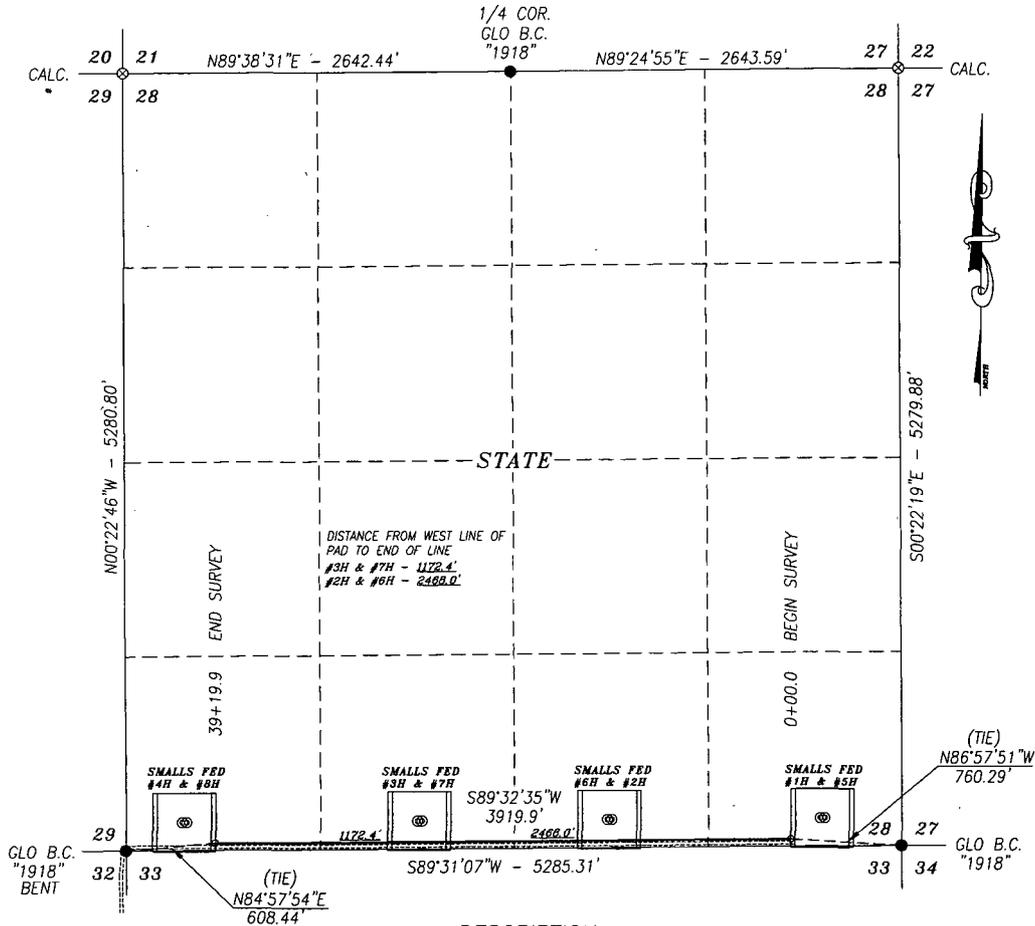
Chad Harcrow
 CHAD HARCROW N.M.P.S. NO. 17777

1/27/16
 DATE

COG OPERATING, LLC		
SMALLS FEDERAL #8H WELL LOCATED 190 FEET FROM THE SOUTH LINE AND 410 FEET FROM THE WEST LINE OF SECTION 28, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO		
SURVEY DATE: 07/10/2015	PAGE: 1 OF 1	
DRAFTING DATE: 07/14/2015		
APPROVED BY: CH	DRAWN BY: WN	FILE: 15-847

**PIPELINE PLAT
COG OPERATING, LLC.**

2-7/8 POLY FLOWLINE FROM SMALLS FED #1H & #5H TO THE SMALLS FED #4H & #8H IN
SECTION 28, TOWNSHIP 22 SOUTH, RANGE 34 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 28, TOWNSHIP 22 SOUTH, RANGE 34 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 IN THE SE/4 SE/4 OF SAID SECTION, WHICH LIES N86°57'51"W 760.29 FEET FROM SOUTHEAST CORNER THEN S89°32'35"W 3919.9 FEET TO A POINT IN THE SW/4 SW/4 OF SAID SECTION, WHICH LIES N84°57'54"W 608.44 FEET FROM THE SOUTHWEST CORNER.

SAID STRIP OF LAND BEING 3919.9 FEET OR 237.57 RODS IN LENGTH, CONTAINING 2.700 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4	34.08 RODS OR 0.387 ACRES	SE/4 SW/4	80.08 RODS OR 0.910 ACRES
SW/4 SE/4	80.08 RODS OR 0.910 ACRES	SW/4 SW/4	43.33 RODS OR 0.493 ACRES

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 GRID VALUES.

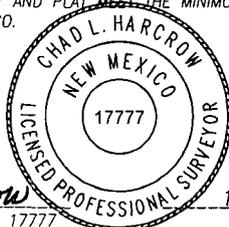
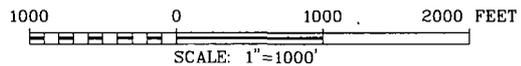
HARCROW SURVEYING, LLC

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CERTIFICATION

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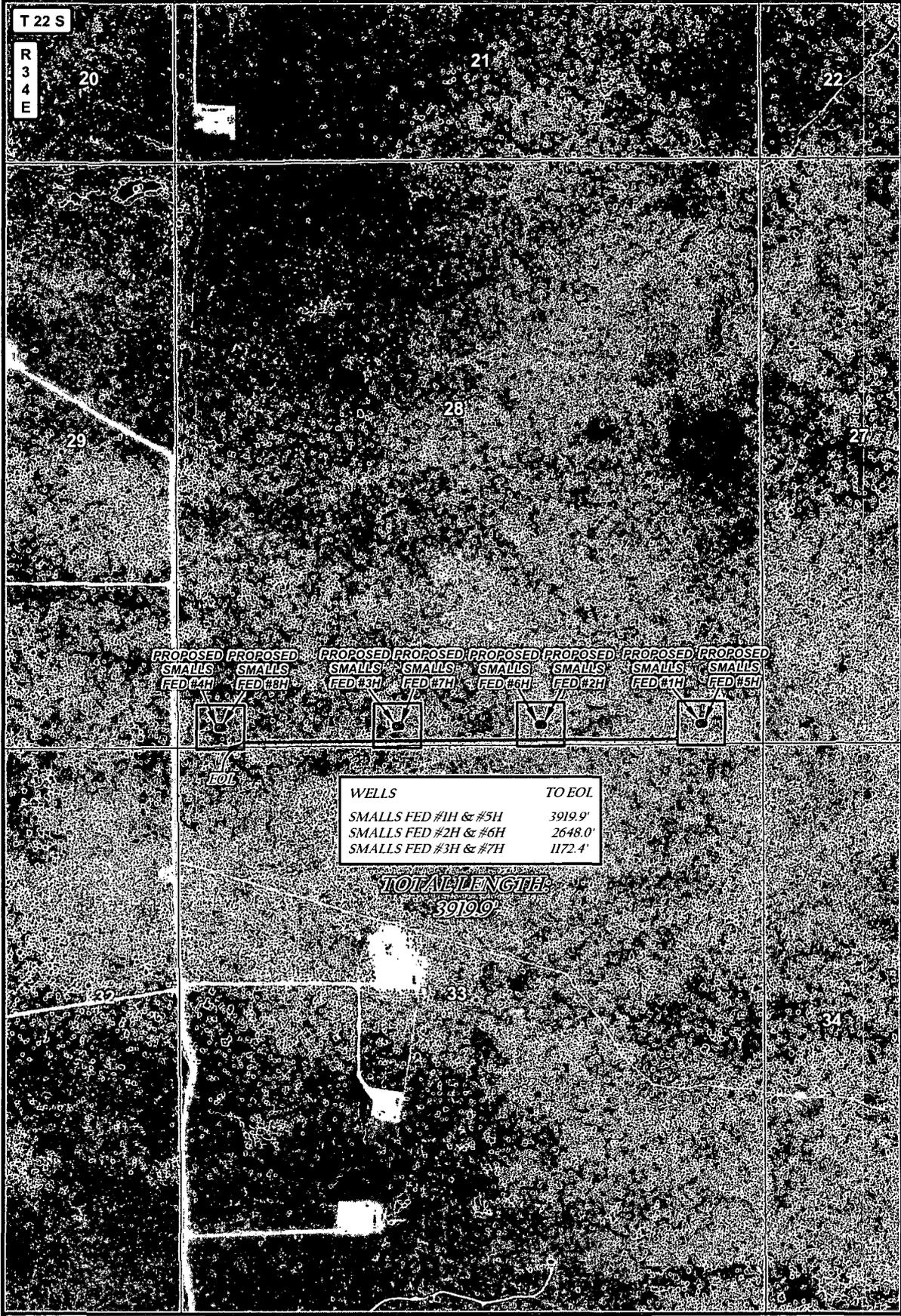


Chad Harcrow

12/18/15
DATE

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

COG OPERATING, LLC		
SURVEY OF A PROPOSED PIPELINE LOCATED IN SECTION 28, TOWNSHIP 22 SOUTH, RANGE 34 EAST, LEA COUNTY, NMPM, NEW MEXICO		
SURVEY DATE: DECEMBER 15, 2015		
DRAFTING DATE: DECEMBER 16, 2015		PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: VD	FILE: 15-1427



LEGEND

- WELL
- WELLPAD
- FLOWLINE

SMALLS FED FLOWLINE SYSTEM

SECTION: 28 TOWNSHIP: 22 S. RANGE: 34 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.
 W.O. # 15-1427 LEASE: SMALLS FED

0 2,500 FEET

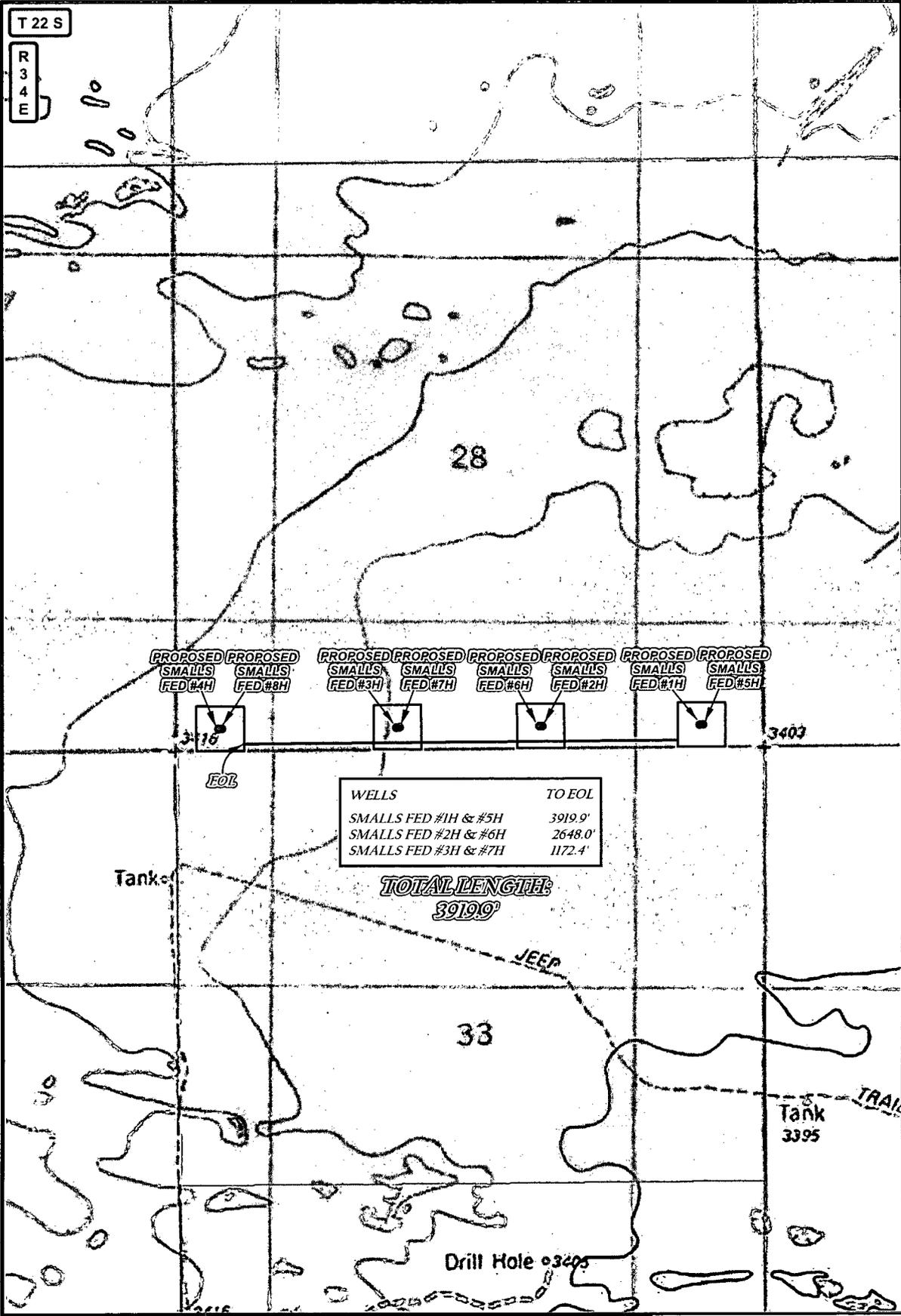
0 0.05 0.1 0.2 Miles 1 IN = 1,000 FT

CONCHO
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T 22 S

R 34 E



PROPOSED SMALLS FED #4H PROPOSED SMALLS FED #8H PROPOSED SMALLS FED #3H PROPOSED SMALLS FED #7H PROPOSED SMALLS FED #6H PROPOSED SMALLS FED #2H PROPOSED SMALLS FED #1H PROPOSED SMALLS FED #5H

WELLS	TO EOL
SMALLS FED #1H & #5H	3919.9'
SMALLS FED #2H & #6H	2648.0'
SMALLS FED #3H & #7H	1172.4'

TOTAL LENGTH:
3919.9'

- LEGEND**
- WELL
 - WELLPAD
 - FLOWLINE
 - PRIVATE
 - STATE OF NM
 - US BLM

SMALLS FED FLOWLINE SYSTEM

SECTION: 28 TOWNSHIP: 22 S. RANGE: 34 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.
 W.O. # 15-1427 LEASE: SMALLS FED

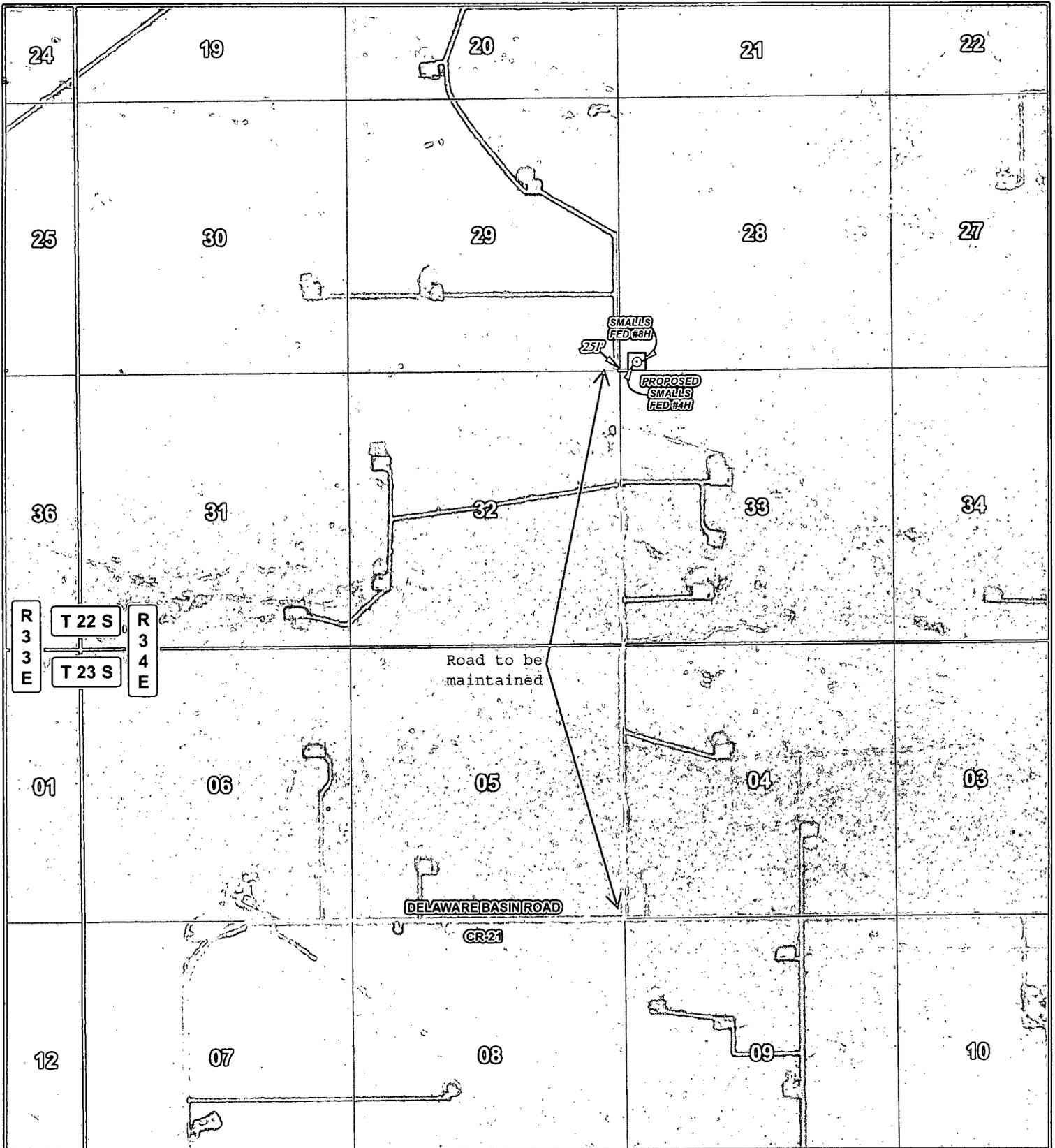
0 2,500 FEET

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

PIPELINE OVERVIEW LAND STATUS 12/16/2015 S.P.

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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

SMALLS FEDERAL #8H

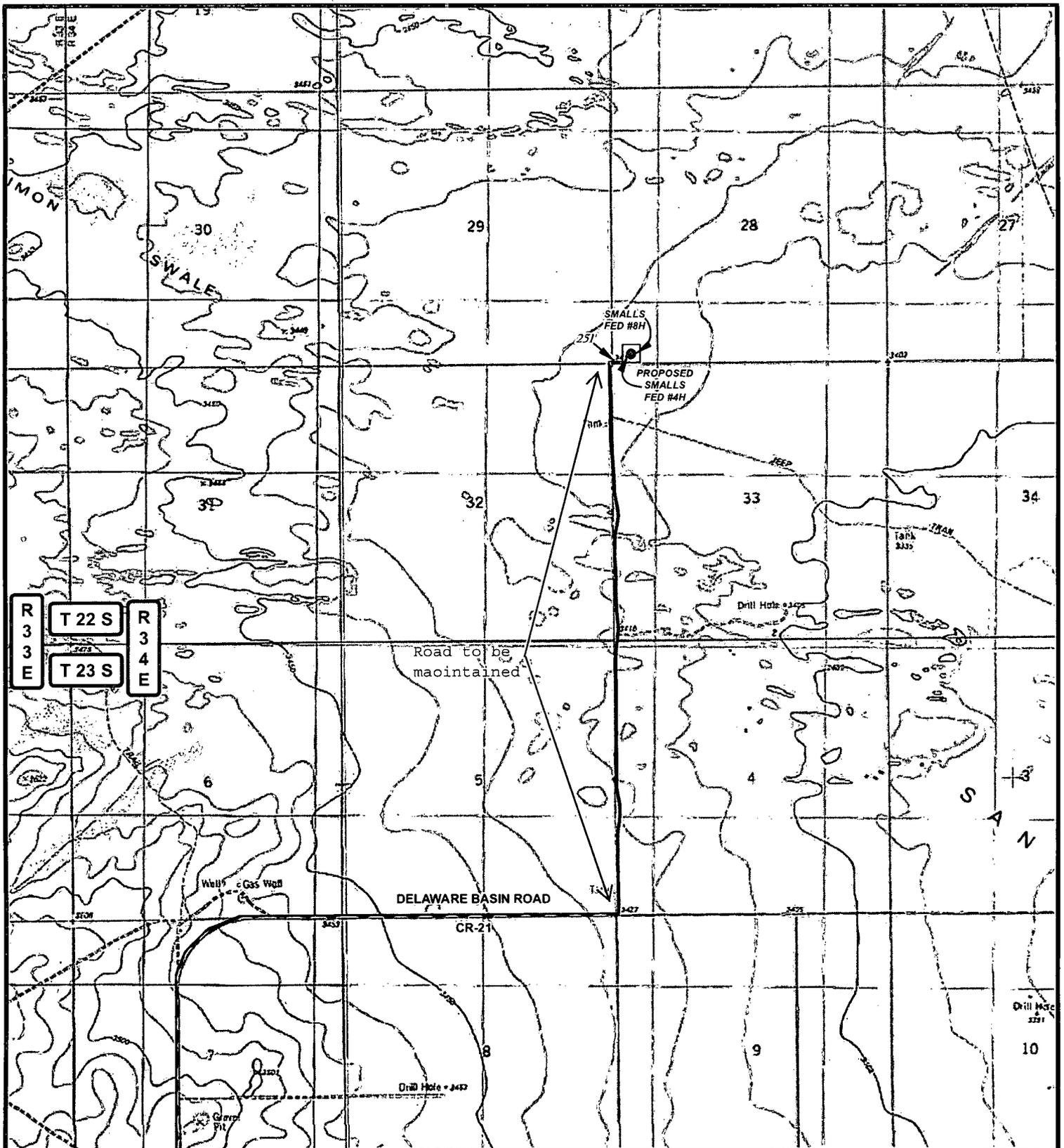
SEC: 28	TWP: 22 S.	RGE: 34 E.	ELEVATION: 3415.8'
STATE: NEW MEXICO		COUNTY: LEA	190' FSL & 410' FWL
W.O. # 14-1295	LEASE: SMALLS FED	SURVEY: N.M.P.M	

0 2,500 5,000 FEET
0 0.15 0.3 0.6 Miles 1 IN = 2,500 FT

LOCATION MAP IMAGERY 01/29/2015 AF

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R 3 3 E
T 22 S
T 23 S
R 3 4 E

- LEGEND**
- WELL
 - WELLPAD
 - EXISTING ROAD
 - PROPOSED ROAD

SMALLS FEDERAL #8H

SEC: 28	TWP: 22 S.	RGE: 34 E.	ELEVATION: 3415.8'
STATE: NEW MEXICO	COUNTY: LEA	190' FSL & 410' FWL	
W.O. # 14-1295	LEASE: SMALLS FED	SURVEY: N.M.P.M	

0 2,500 5,000 FEET

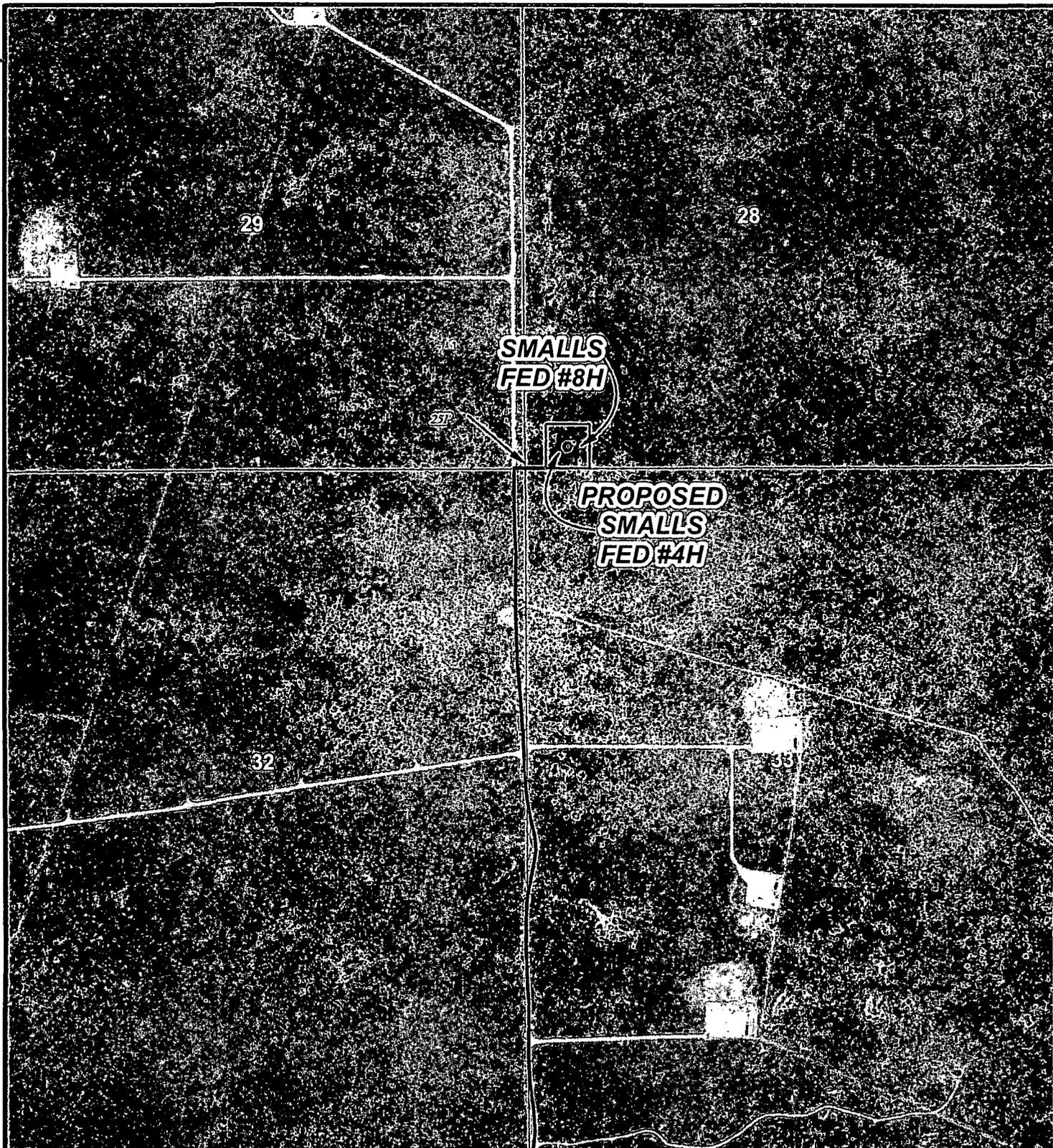
0 0.15 0.3 0.6 Miles

1 IN = 2,500 FT

LOCATION MAP TOPO 01/29/2015 A.F

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LEGEND

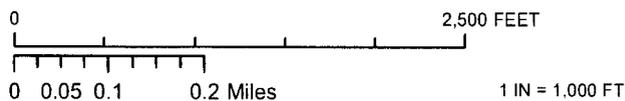
- WELL
- WELLPAD
- EXISTING ROAD
- - - PROPOSED ROAD

SMALLS FEDERAL #8H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3415.8'

STATE: NEW MEXICO COUNTY: LEA 190' FSL & 410' FWL

W.O. # 14-1295 LEASE: SMALLS FED SURVEY: N.M.P.M



LOCATION MAP IMAGERY ROAD 01/29/2015 A.F



EXHIBIT 2

29

28

SMALLS
FED #8H

PROPOSED
SMALLS
FED #4H

Tank

JEEP

32

33

Drill Hole 33495

3416

LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

SMALLS FEDERAL #8H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3415.8'

STATE: NEW MEXICO COUNTY: LEA 190' FSL & 410' FWL

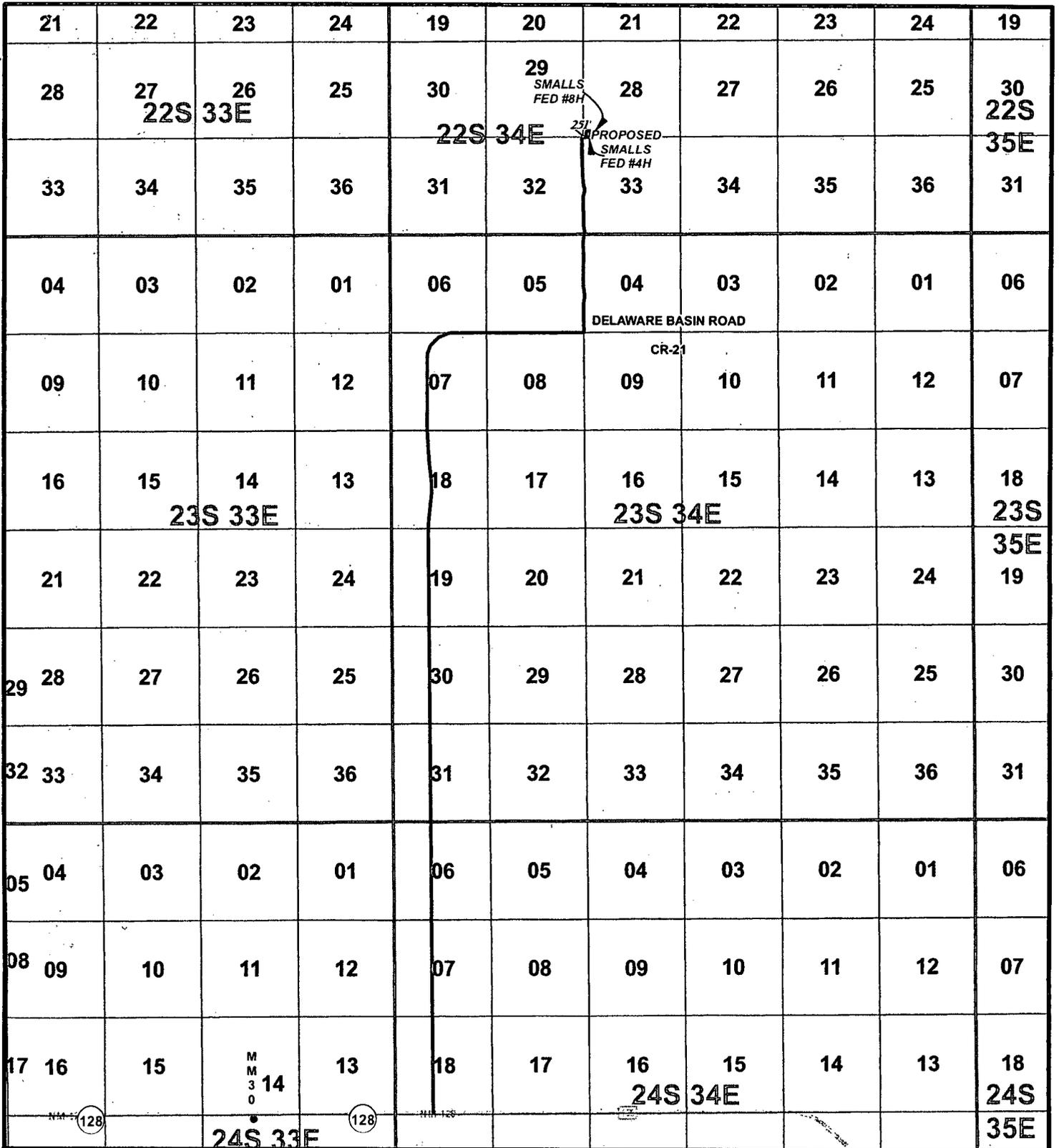
W.O. # 14-1295 LEASE: SMALLS FED SURVEY: N.M.P.M



LOCATION MAP TOPO ROAD 01/29/2015 A.F

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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

SMALLS FEDERAL #8H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3415.8'

STATE: NEW MEXICO COUNTY: LEA 190' FSL & 410' FWL

W.O. # 14-1295 LEASE: SMALLS FED SURVEY: N.M.P.M

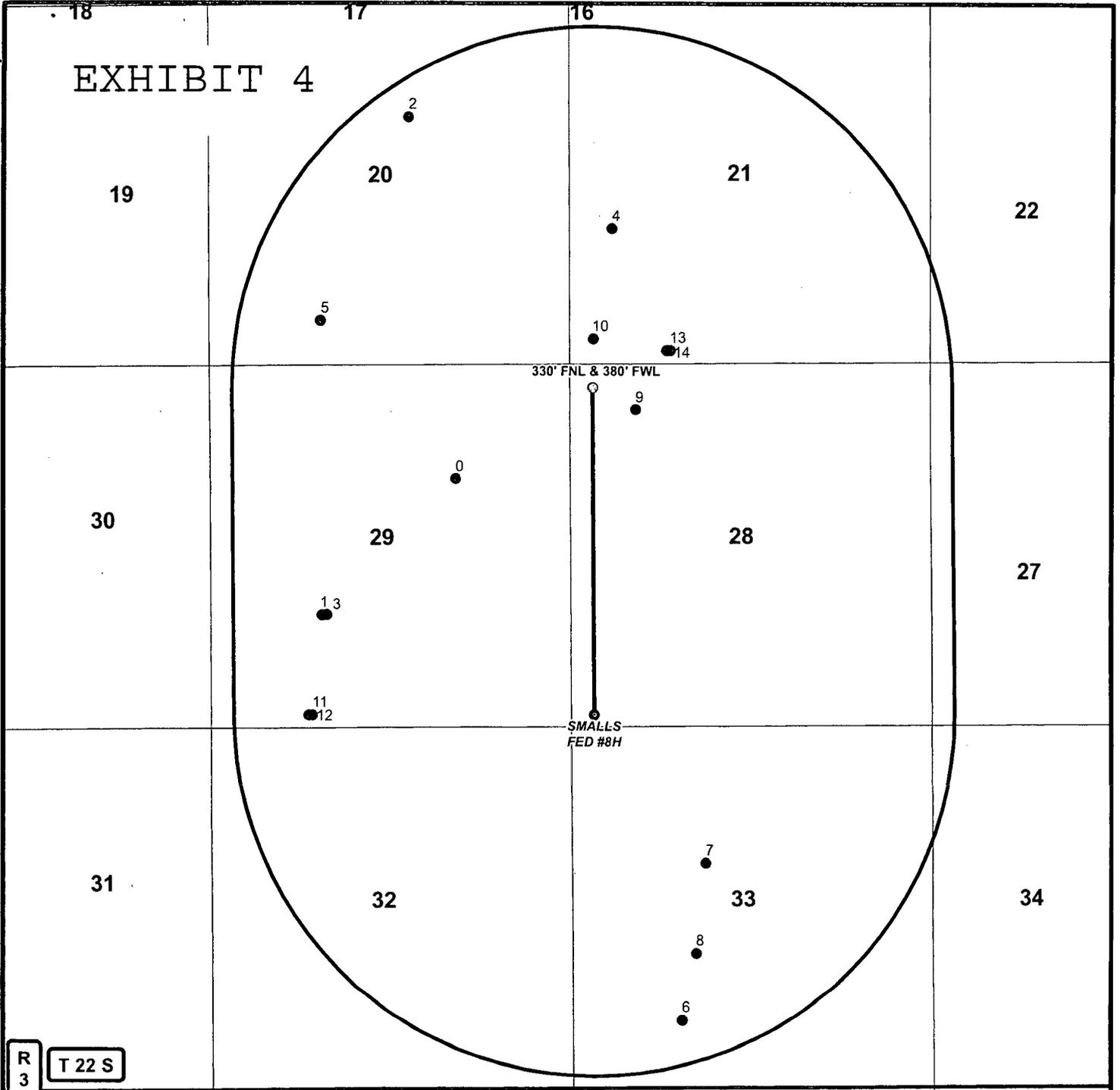
0 2,500 5,000 7,500 10,000 12,500 15,000 17,500 FEET

0 0.5 1 2 Miles 1 IN = 7,000 FT

VICINITY MAP 01/29/2015 A.F



EXHIBIT 4



R
3
4
E

T 22 S

T 23 S

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

SMALLS FEDERAL #8H			
SEC: 28	TWP: 22 S.	RGE: 34 E.	ELEVATION: 3415.8'
STATE: NEW MEXICO		COUNTY: LEA	190' FSL & 410' FWL
W.O. # 14-1295	LEASE: SMALLS FED	SURVEY: N.M.P.M	
1 MILE MAP		TOPO	01/29/2015
		A.F	

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