

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 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) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3480 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 43065	Pool Code 97922	Pool Name WC-025 G-06 S223421L; Bone Spring
Property Code 315744	Property Name SMALLS FEDERAL	Well Number 3H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3410.1

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	28	22-S	34-E		190'	SOUTH	1980'	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
C	28	22-S	34-E		330'	NORTH	1980'	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

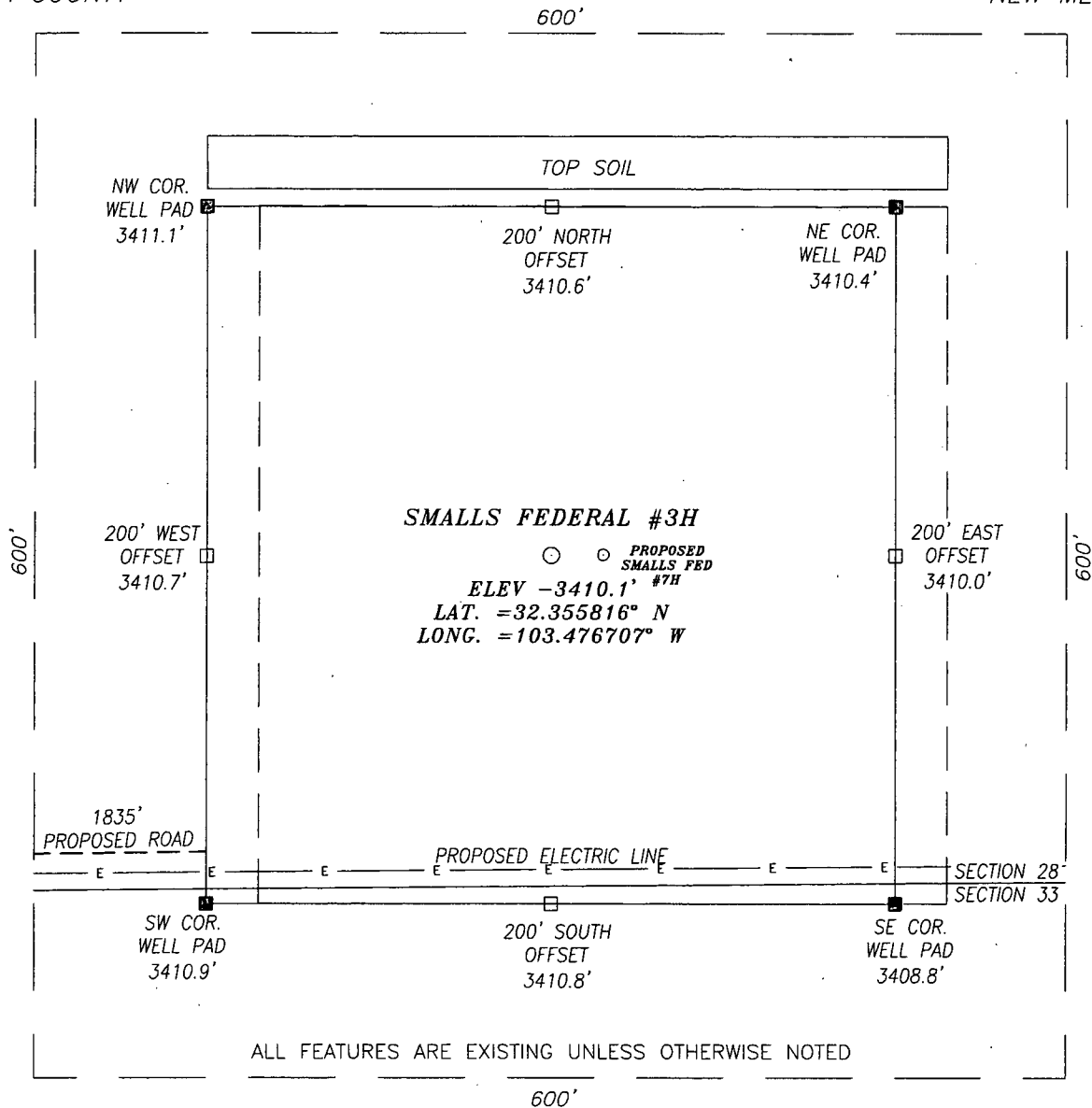
1980' Y=499301.8 N X=763831.0 E Y=499310.0 N X=765152.4 E NAD 27 PROPOSED BOTTOM HOLE LOCATION Y=498975.9 N X=764491.7 E LAT.=32.368897° N LONG.=103.476686° W NAD 27 SURFACE LOCATION Y=494219.7 N X=764523.4 E LAT.=32.355816° N LONG.=103.476707° W Y=494024.1 N X=763866.2 E Y=494035.2 N X=765187.5 E 1980' 190' GRID AZ. - 359°37'05" HORZ. DIST. - 4756.3' PROJECT AREA PRODUCING AREA NMNM116047	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. <i>Melanie J Wilson</i> 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.O. # 14-1292 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. 0.3 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

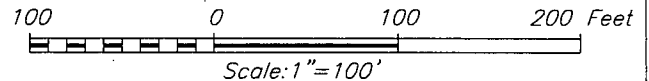
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



Chad Harcrow

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

1/27/16
DATE



COG OPERATING, LLC

SMALLS FEDERAL #3H WELL
LOCATED 190 FEET FROM THE SOUTH LINE
AND 1980 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: 07/13/2015

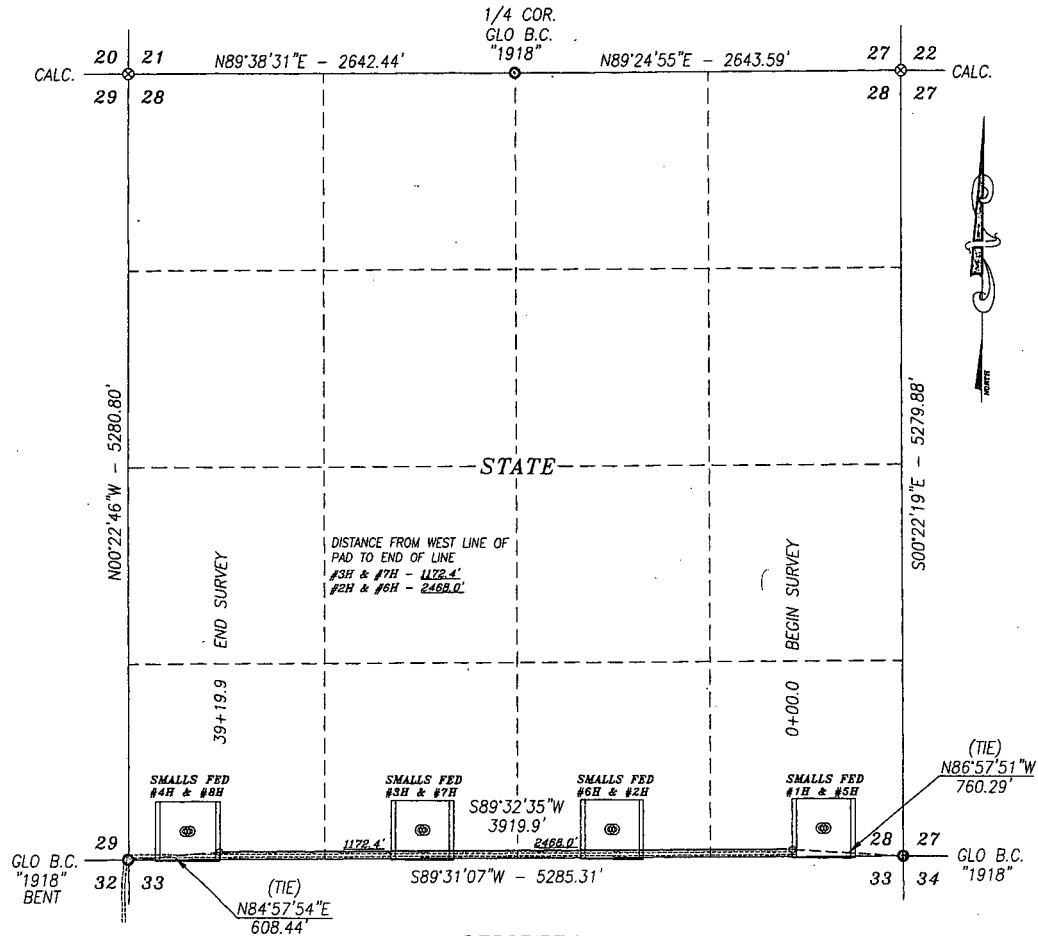
APPROVED BY: CH

DRAWN BY: WN

FILE: 15-844

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:

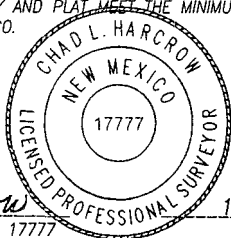
BEGINNING AT A POINT IN THE SE/4 SE/4 OF SAID SECTION, WHICH LIES N86°57'51\"W 760.29 FEET FROM SOUTHEAST CORNER THEN S89°32'35\"W 3919.9 FEET TO A POINT IN THE SW/4 SW/4 OF SAID SECTION, WHICH LIES N84°57'54\"E 608.44 FEET FROM THE SOUTHWEST CORNER.

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.

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

12/18/15
DATE

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



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

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

T 22 S

R 34 E

20

21

22

29

28

27

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'

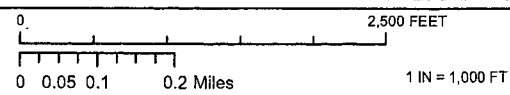
TOTAL LENGTH:
3919.9'

LEGEND

- WELL
- WELLPAD
- FLOWLINE

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

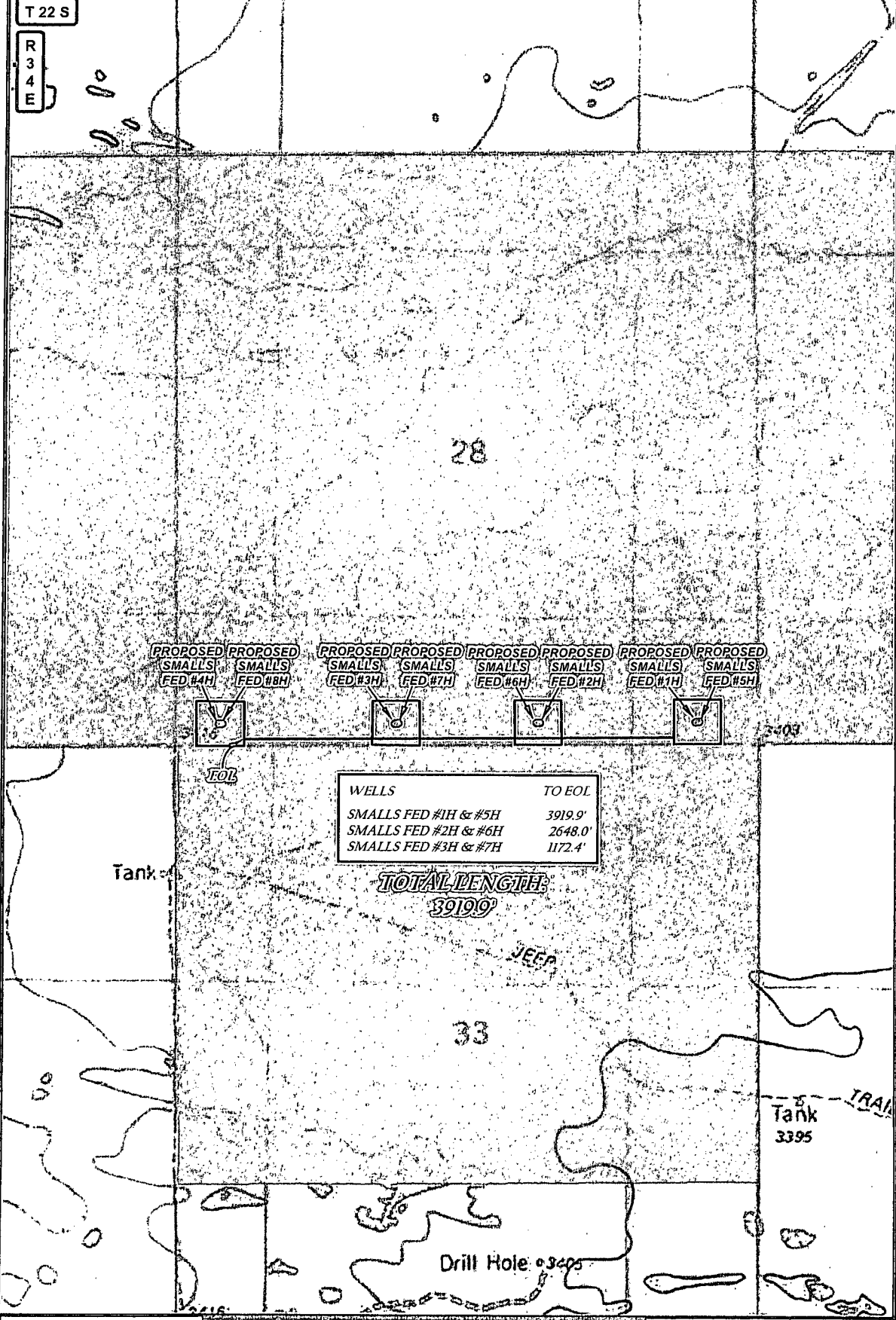


PIPELINE OVERVIEW IMAGERY 12/16/2015 S.P.

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

T 22 S
R 34 E



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 0.05 0.1 0.2 Miles

0 2,500 FEET

1 IN = 1,000 FT

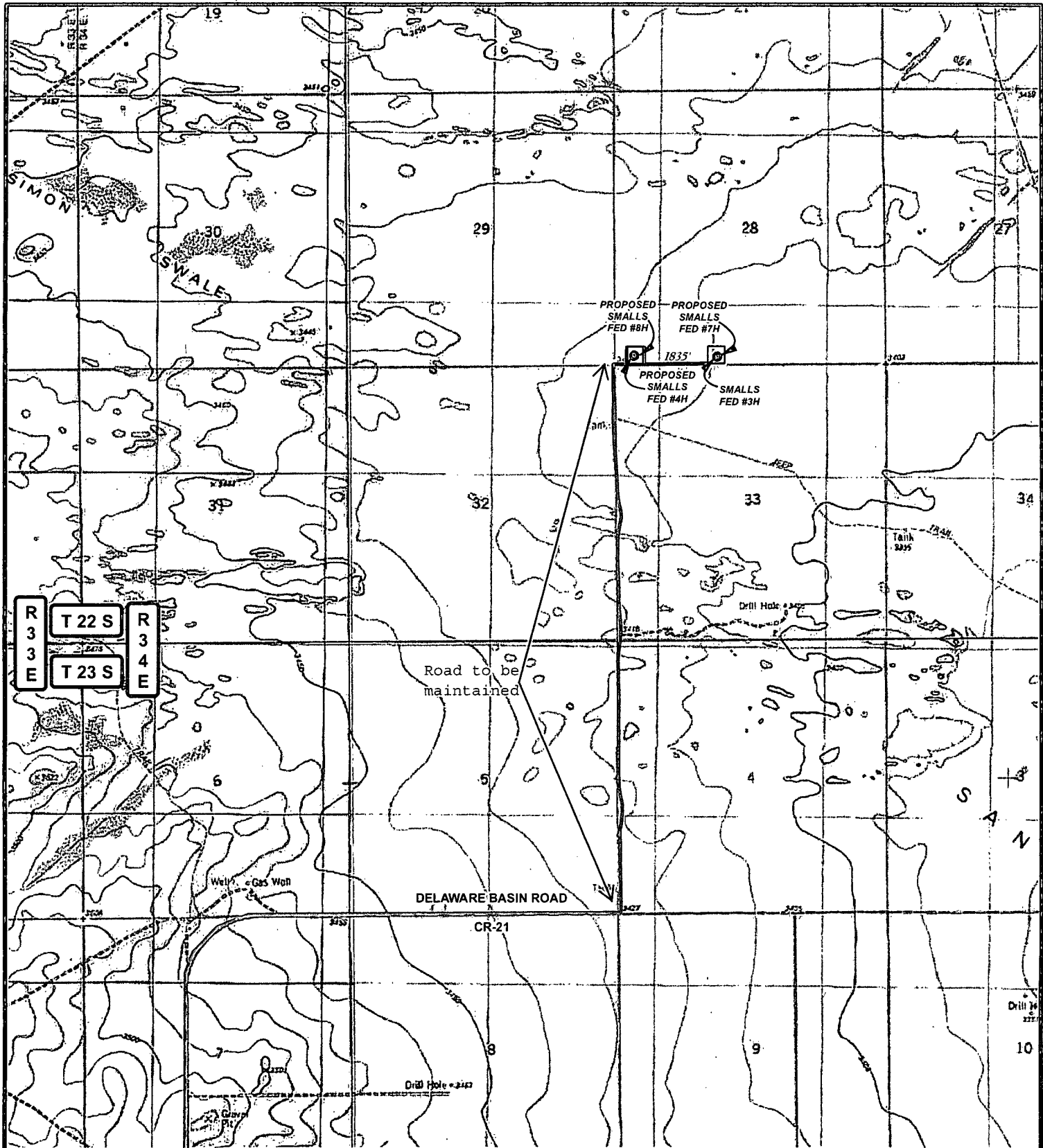
PIPELINE OVERVIEW LAND STATUS 12/16/2015 SP

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



R 33 E T 22 S R 34 E
T 23 S

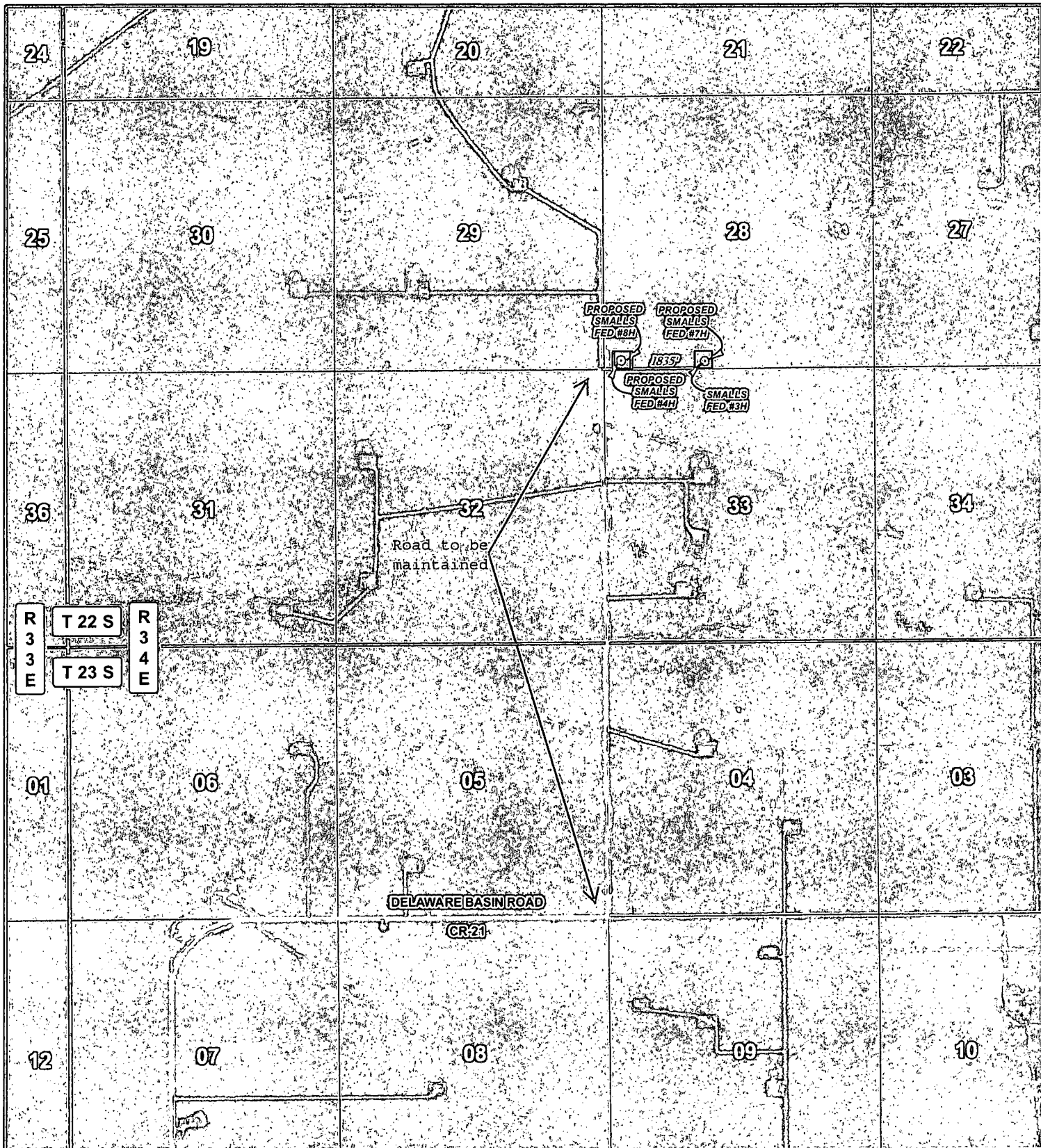
LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

SMALLS FEDERAL #3H			
SEC: 28	TWP: 22 S.	RGE: 34 E.	ELEVATION: 3410.1'
STATE: NEW MEXICO		COUNTY: LEA	190' FSL & 1980' FEL
W.O. # 14-1292		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	01/28/2015 A.F

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



LEGEND

○ WELL

□ WELLPAD

— EXISTING ROAD

— PROPOSED ROAD

SMALLS FEDERAL #3H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3410.1'

STATE: NEW MEXICO COUNTY: LEA 190' FSL & 1980' FEL

W.O. # 14-1292 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

01/23/2015

AF

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



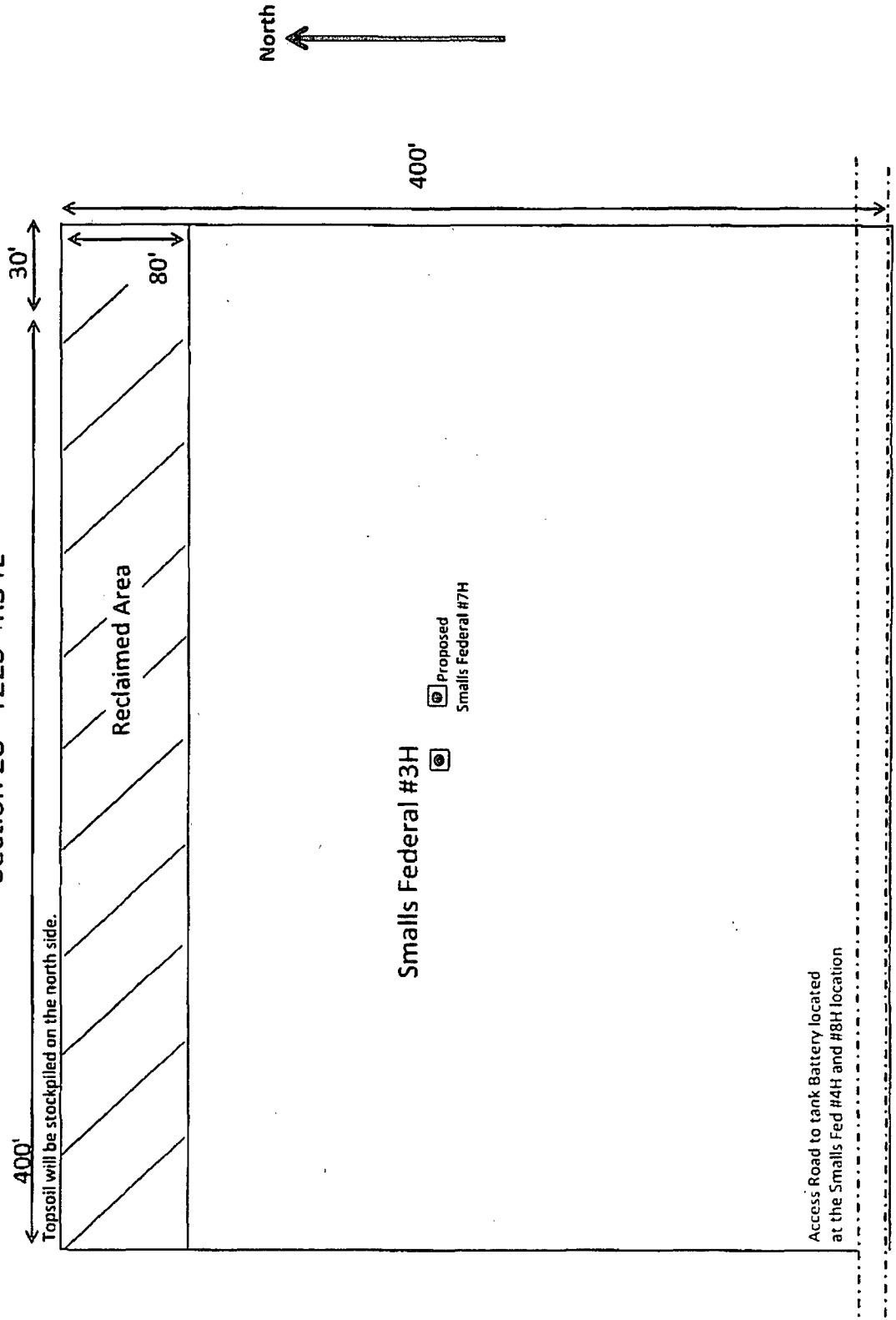
COG Operating LLC
2208 West Main Street
Artesia, NM 88210

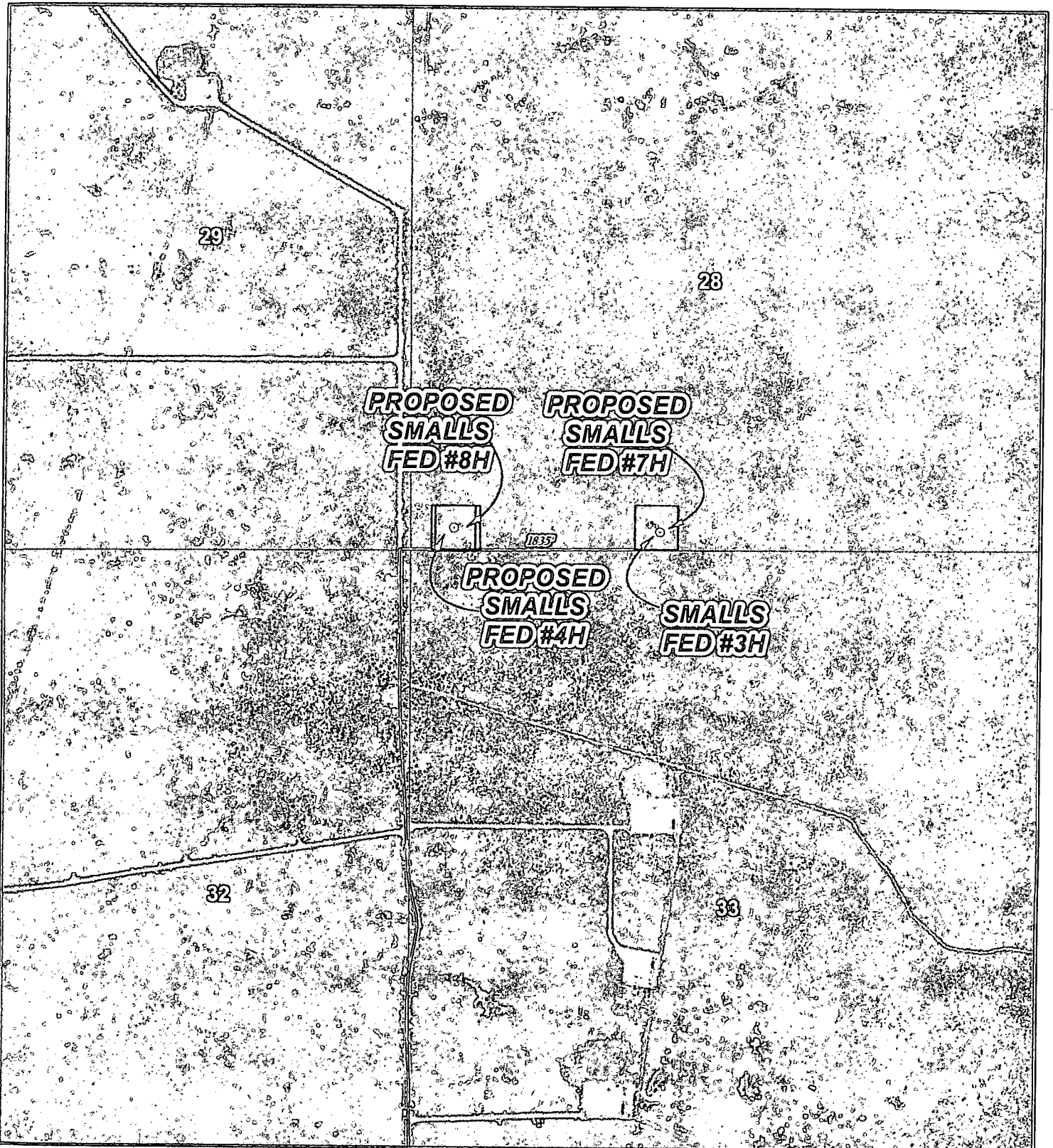
Well Site Layout Production Facility Layout

Smalls Federal #3H

Section 28 - T22S - R34E

Exhibit 3



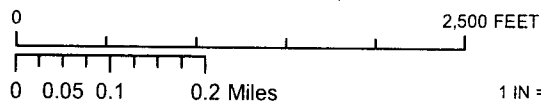


LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

SMALLS FEDERAL #3H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3410.1'
 STATE: NEW MEXICO COUNTY: LEA 190' FSL & 1980' FEL
 W.O. # 14-1292 LEASE: SMALLS FED SURVEY: N.M.P.M



LOCATION MAP

IMAGERY ROAD

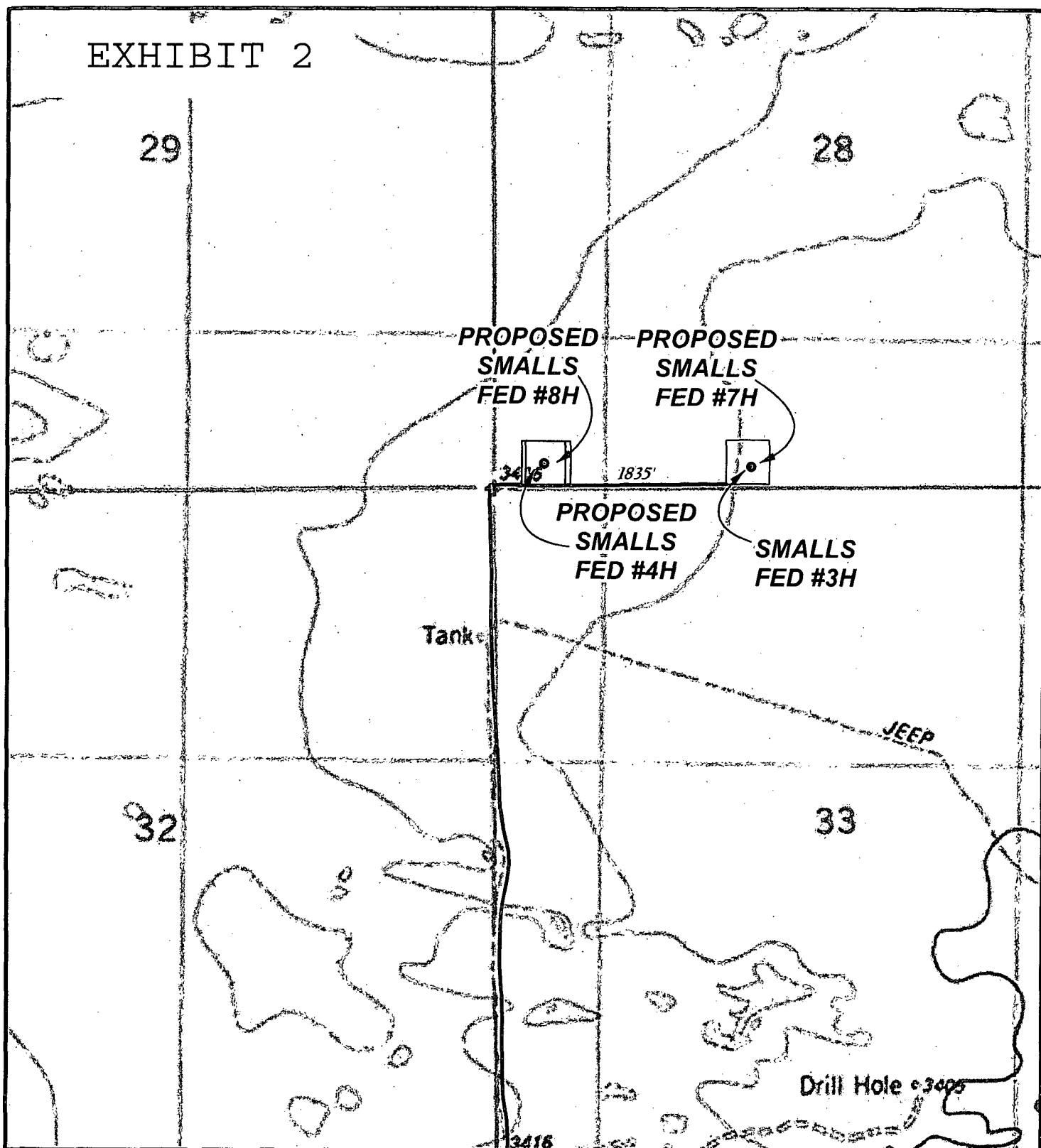
01/28/2015

AF

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

EXHIBIT 2



LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

SMALLS FEDERAL #3H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3410.1'
 STATE: NEW MEXICO COUNTY: LEA 190' FSL & 1980' FEL
 W.O. # 14-1292 LEASE: SMALLS FED SURVEY: N.M.P.M

0 2,500 FEET

0 0.05 0.1 0.2 Miles

1 IN = 1,000 FT

LOCATION MAP

TOPO ROAD

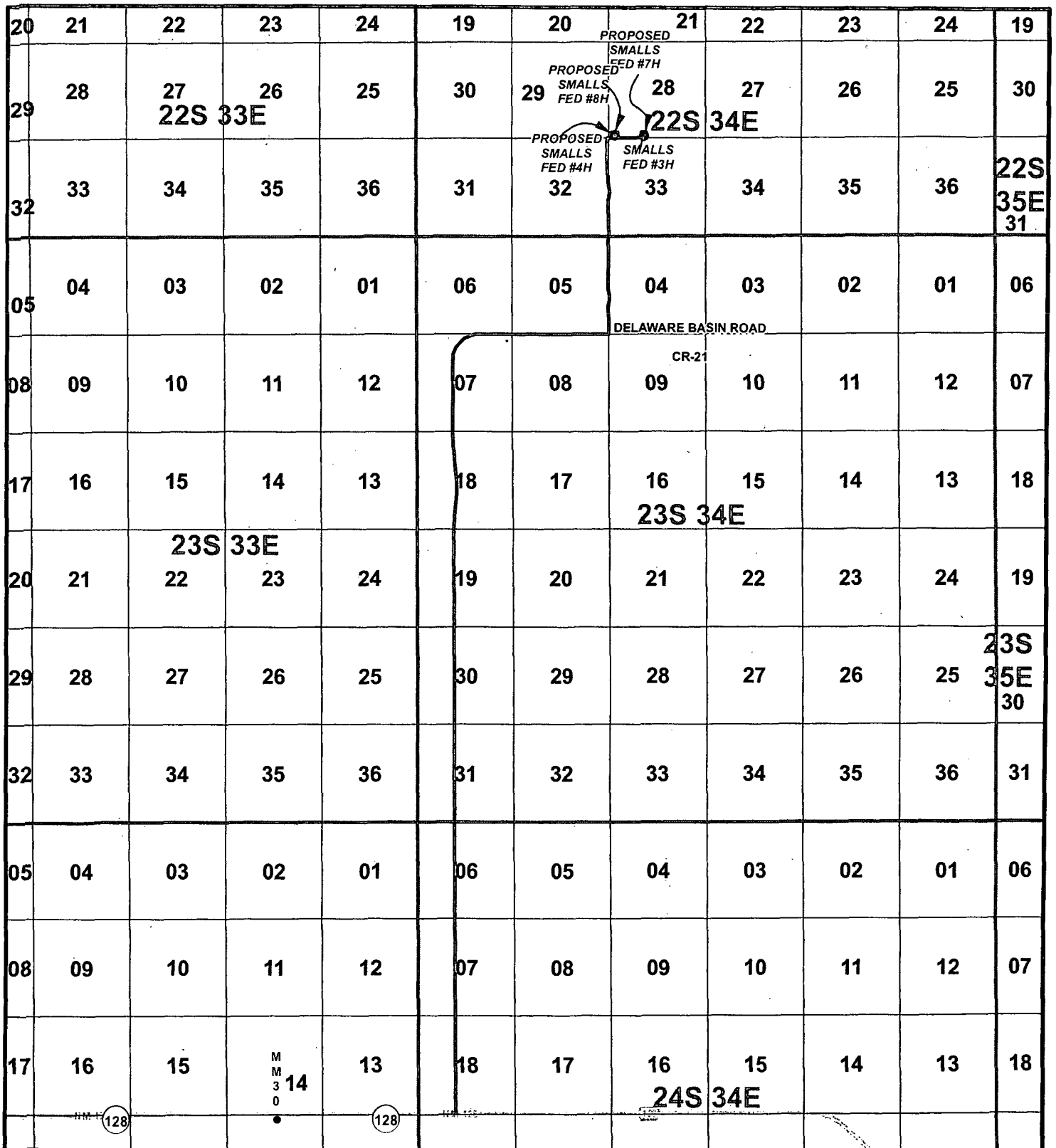
01/28/2015

A.F

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



LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

SMALLS FEDERAL #3H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3410.1'
 STATE: NEW MEXICO COUNTY: LEA 190' FSL & 1980' FEL
 W.O. # 14-1292 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

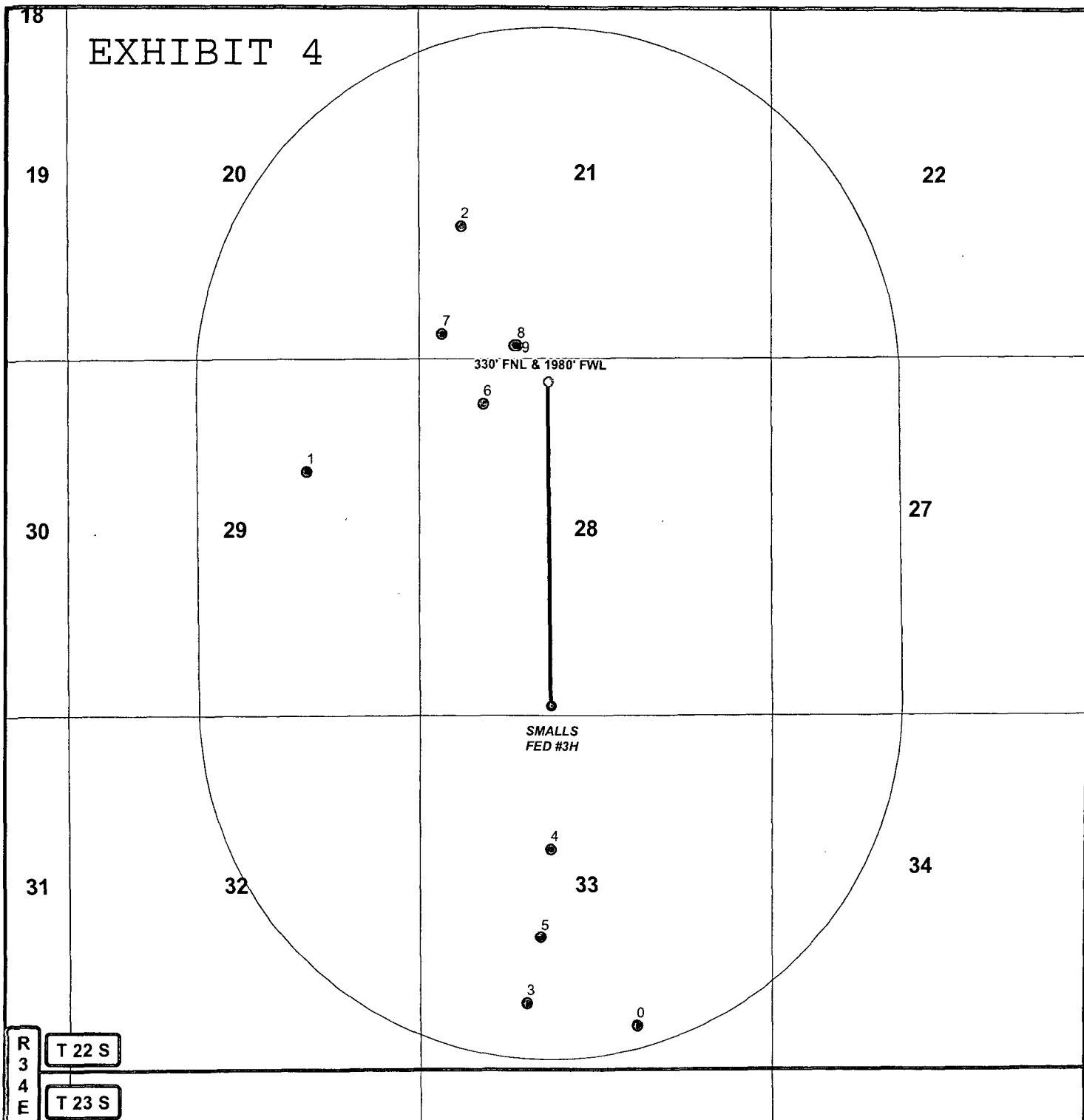
01/28/2015

A.F.

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

EXHIBIT 4



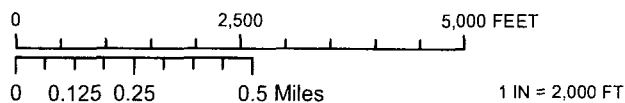
DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH JANUARY 12, 2015.

LEGEND

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

SMALLS FEDERAL #3H

SEC: 28 TWP: 22 S. RGE: 34 E. ELEVATION: 3410.1'
 STATE: NEW MEXICO COUNTY: LEA 190' FSL & 1980' FEL
 W.O. # 14-1292 LEASE: SMALLS FED SURVEY: N.M.P.M



1 MILE MAP

01/28/2015

A.F

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