

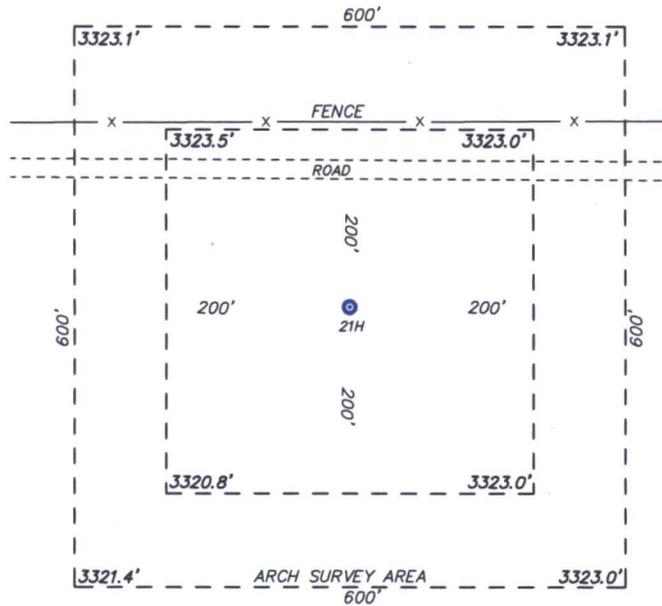
Section 34, Township 25 South, Range 33 East, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



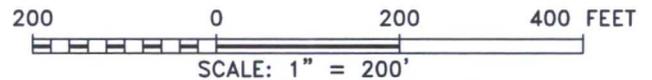
COG OPERATING, LLC
COLUMBUS FEDERAL COM #21H
ELEV. - 3324'

Lat - N 32.093686°
Long - W 103.552724°
NMSPCE- N 398694.6
E 783074.0
(NAD-83)

Lat - N 32.093561°
Long - W 103.552254°
NMSPCE- N 398637.1
E 741887.4
(NAD-27)



JAL, NM IS ±21 MILES TO THE EAST OF LOCATION.



COG OPERATING, LLC

REF: COLUMBUS FEDERAL COM #21H / WELL PAD TOPO

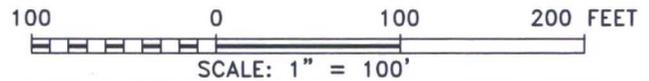
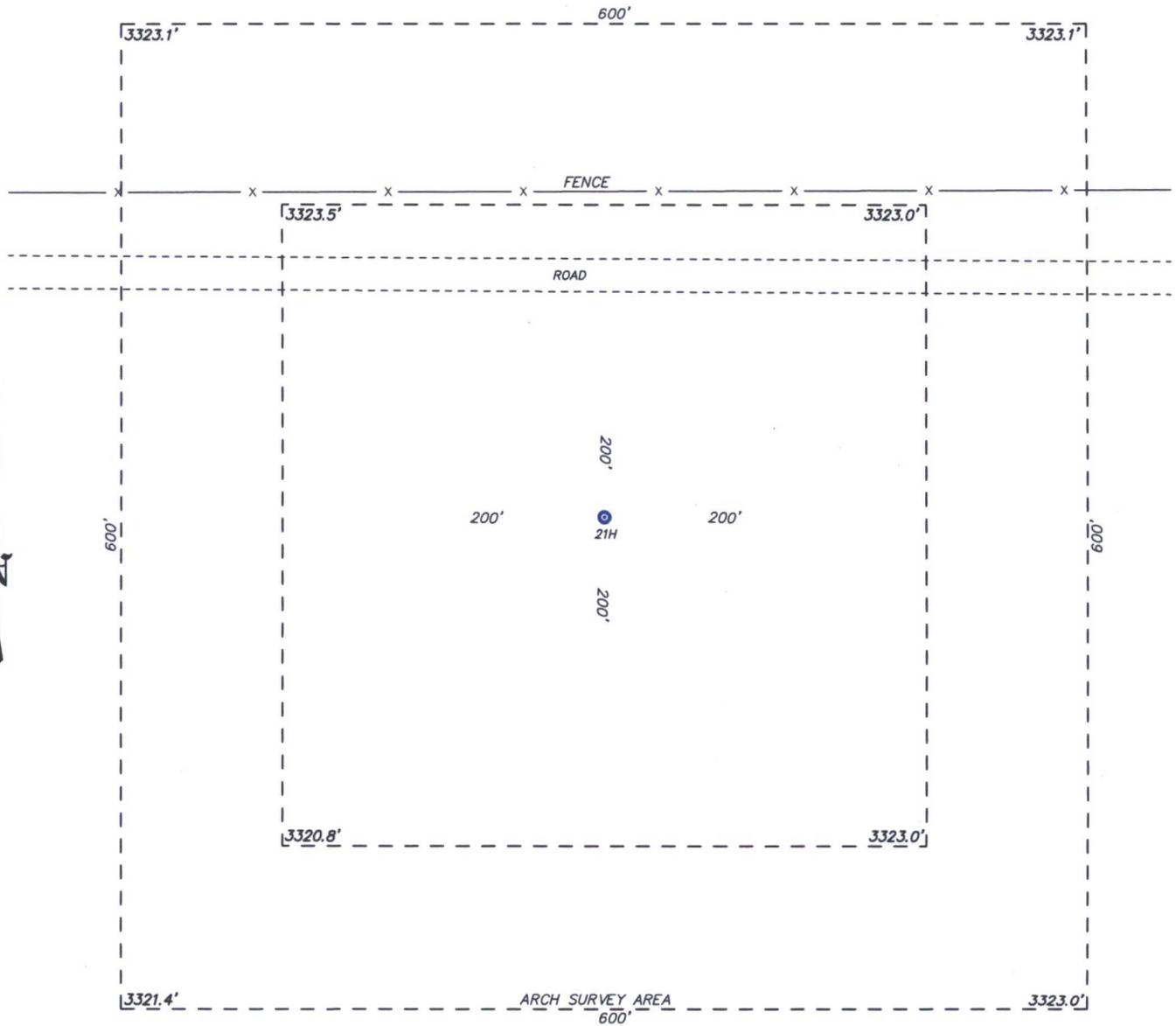
THE COLUMBUS FEDERAL COM #21H LOCATED 210' FROM
THE NORTH LINE AND 330' FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH, RANGE 33 EAST.

N.M.P.M., LEA COUNTY, NEW MEXICO.

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 LEA COUNTY, NEW MEXICO.



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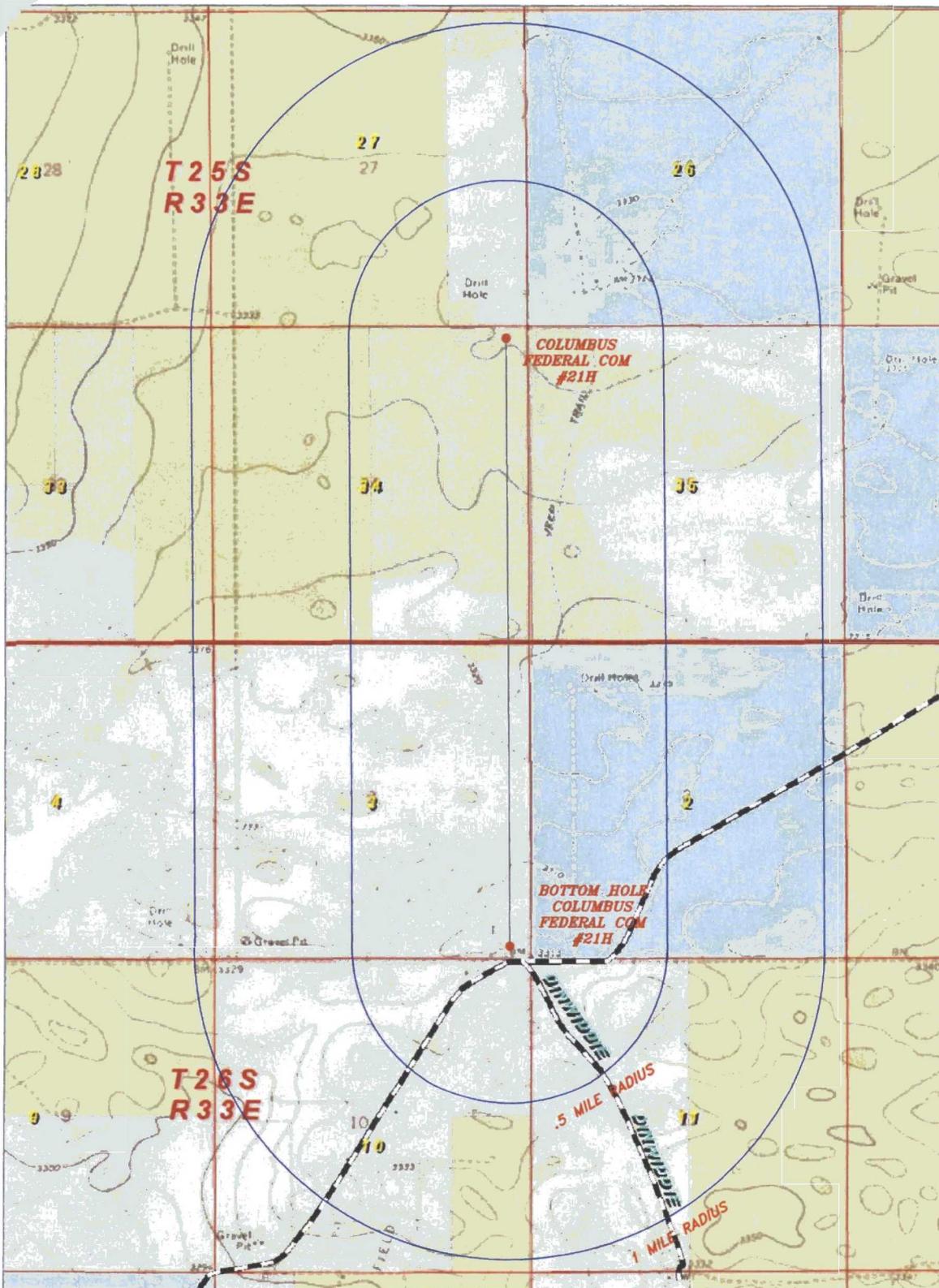
REF: COLUMBUS FEDERAL COM #21H / WELL PAD TOPO

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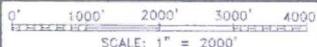
COLUMBUS FEDERAL COM #21H AND BOTTOM HOLE LOCATION

Located 210' FNL and 330' FEL
 Section 34, Township 25 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



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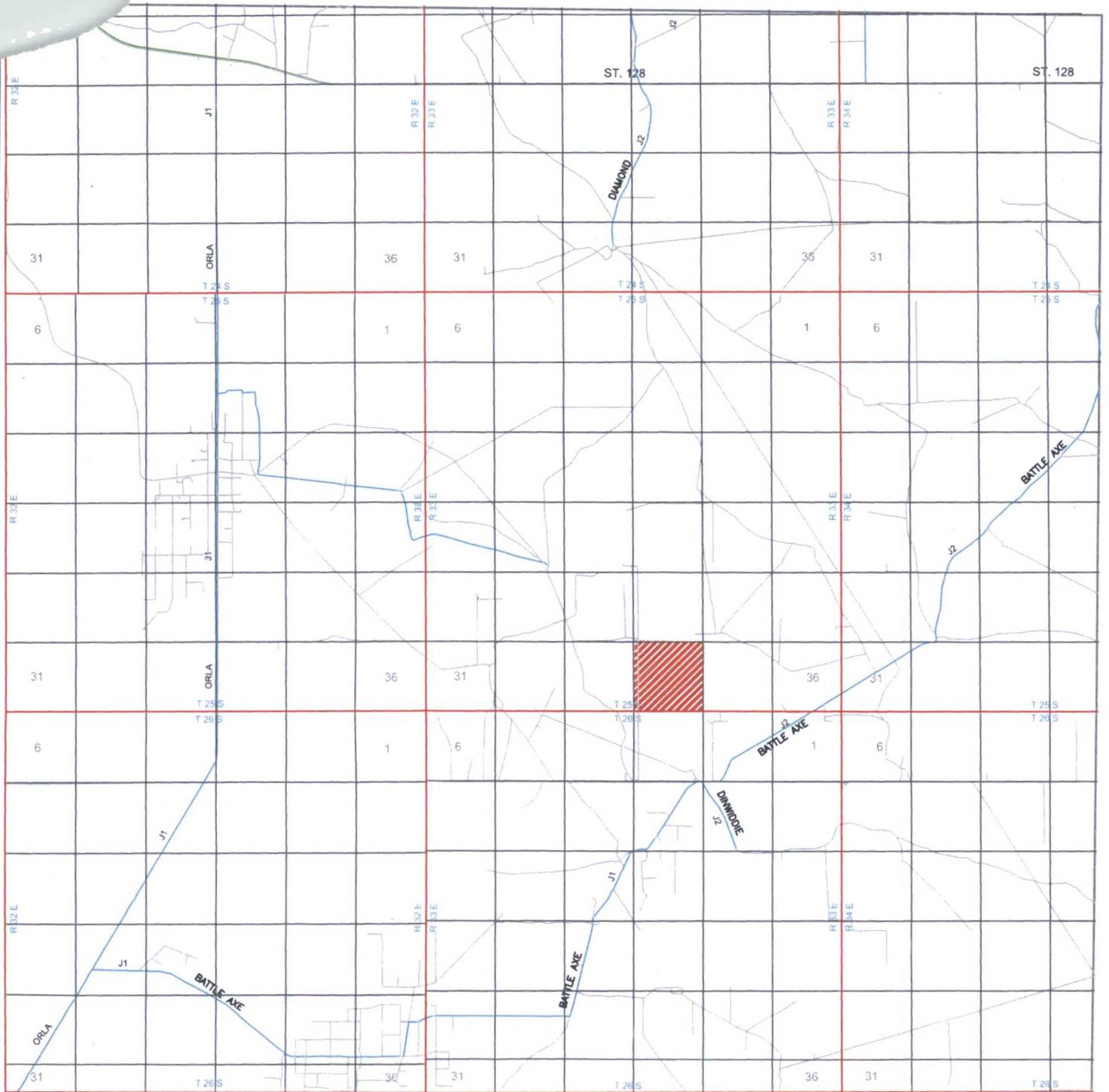
W.O. Number: JG 32538

Survey Date: 10-17-2016

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



**COG
 OPERATING,
 LLC**

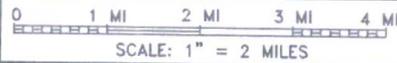


COLUMBUS FEDERAL COM #21H

Located 210' FNL and 330' FEL
 Section 34, Township 25 South, Range 33 East,
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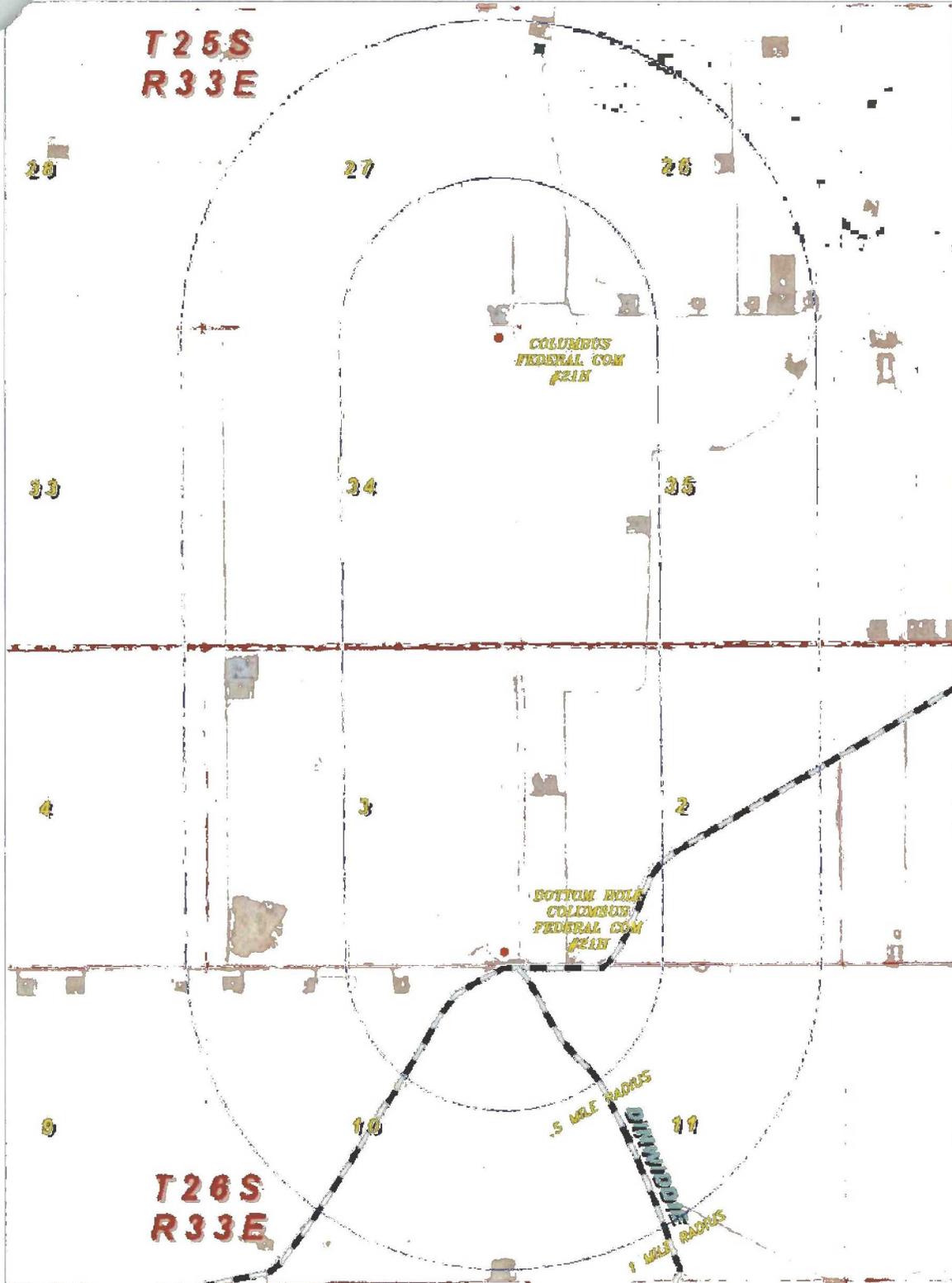
W.O. Number: JG 32538
 Survey Date: 10-17-2016

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



**COG
 OPERATING,
 LLC**

T25S
R33E



COLUMBUS FEDERAL COM #21H AND BOTTOM HOLE LOCATION

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

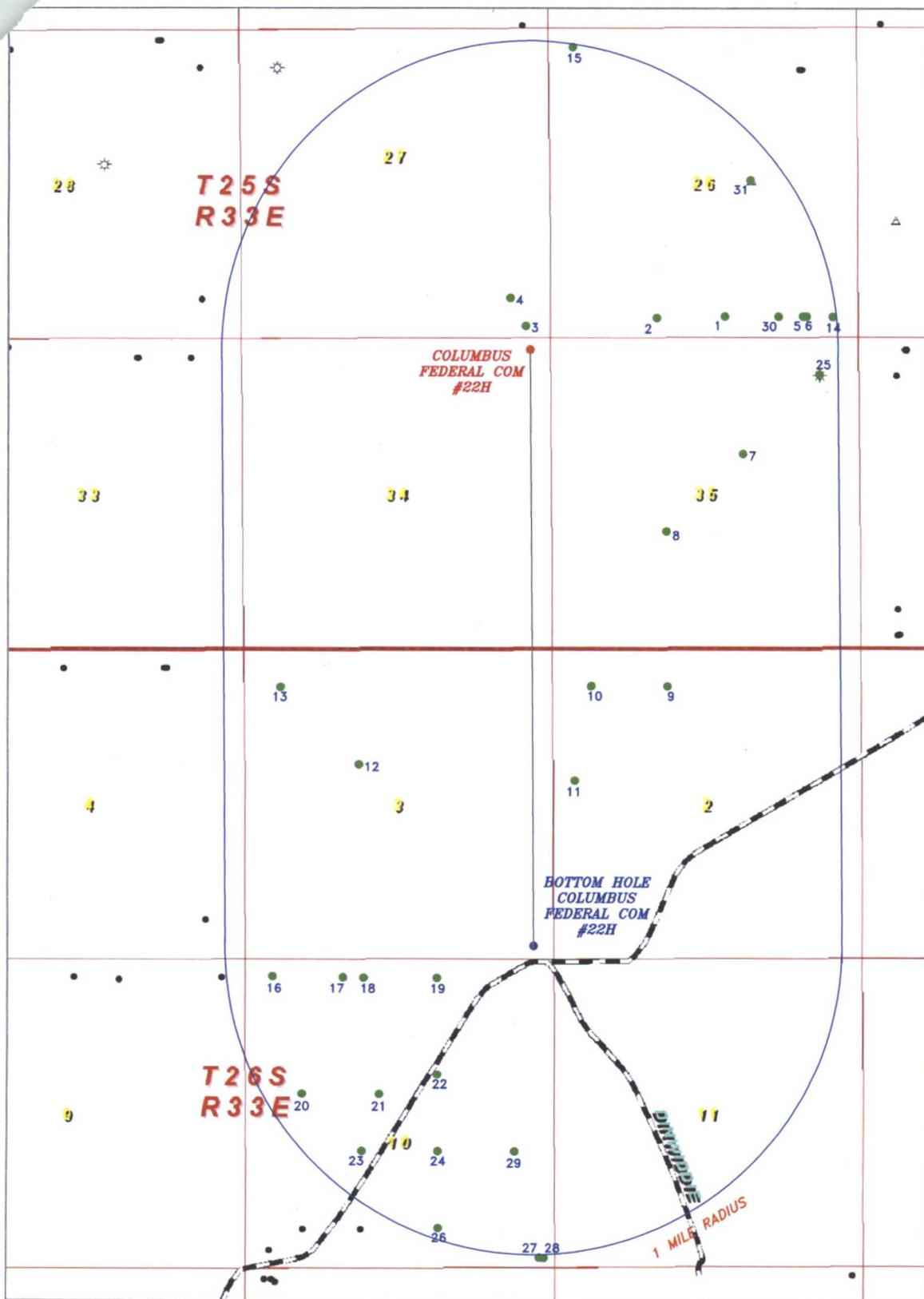
W.O. Number: JG 32538

Survey Date: 10-17-2016

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



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COLUMBUS FEDERAL COM #21H AND BOTTOM HOLE LOCATION

Located 210' FNL and 330' FEL
 Section 34, Township 25 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.

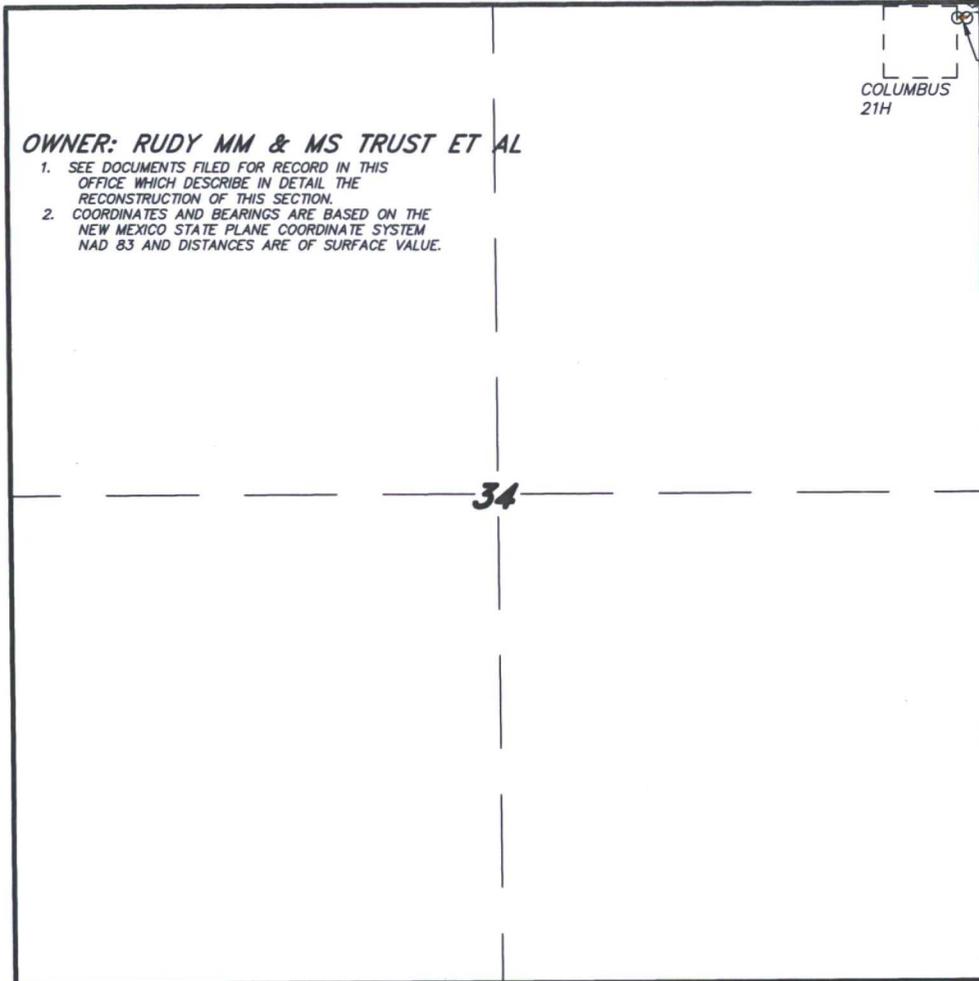


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●	SURFACE LOCATION			
●	BOTTOMHOLE			
●	WELLS WITHIN 1 MILE RADIUS			
0'	1000'	2000'	3000'	4000'
SCALE: 1" = 2000'				
W.O. Number: JG 32538				
Survey Date: 10-17-2016				

**COG
 OPERATING,
 LLC**

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



OWNER: RUDY MM & MS TRUST ET AL

1. SEE DOCUMENTS FILED FOR RECORD IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THIS SECTION.
2. COORDINATES AND BEARINGS ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM NAD 83 AND DISTANCES ARE OF SURFACE VALUE.

LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 34, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S55°43'44"W, 152.4 FEET FROM THE NORTHEAST CORNER OF SAID SECTION 34; THENCE S89°47'09"E., 49.8 FEET TO THE END OF THIS LINE WHICH LIES S41°30'13"W, 114.8 FEET FROM THE NORTHEAST CORNER OF SAID SECTION 34. SAID STRIP OF LAND BEING 49.8 FEET OR 3.02 RODS IN LENGTH.

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES, AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



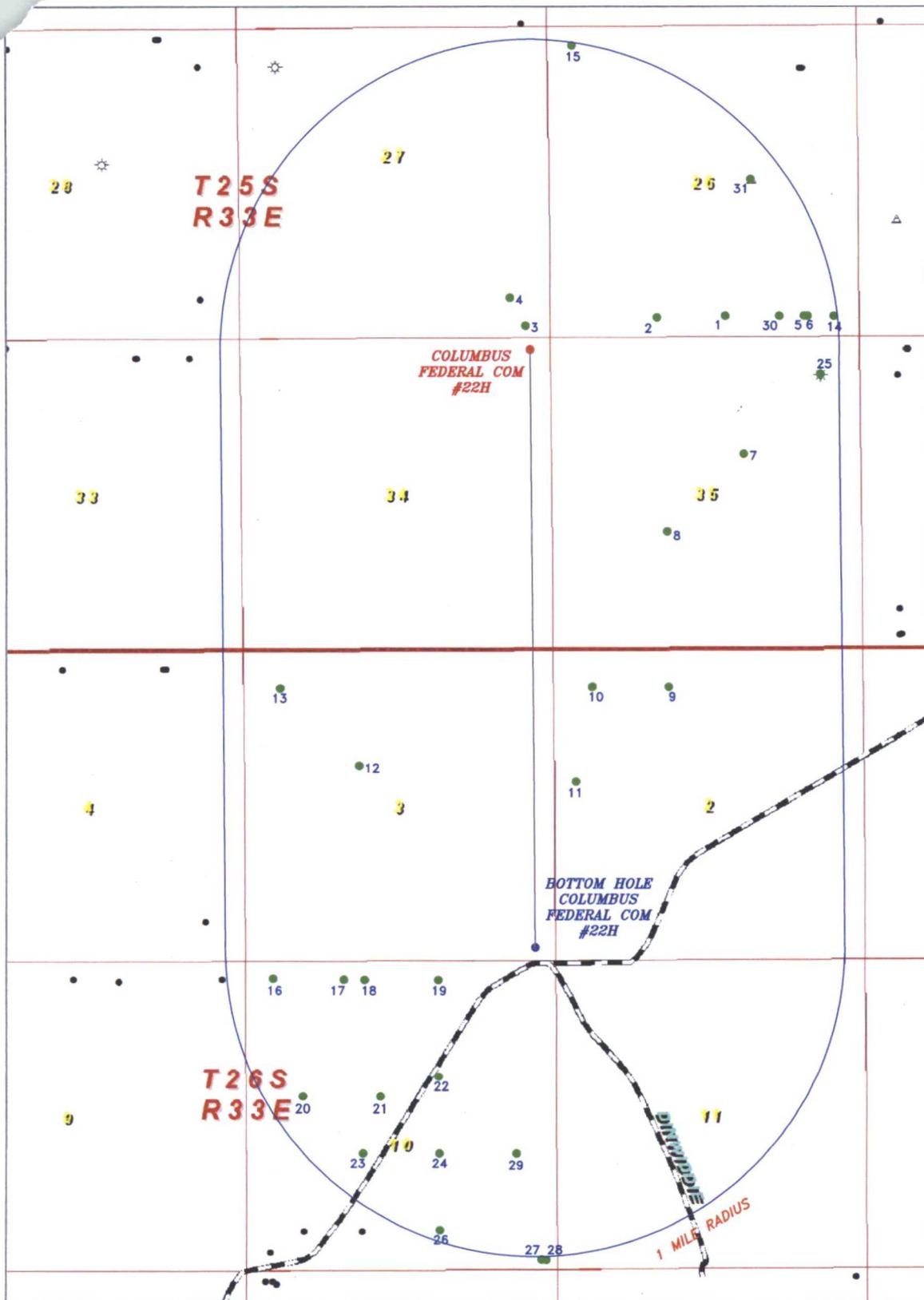
GARY L. JONES, P.S. No. 7977
LEAS No. 5074



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COG OPERATING LLC
REF: COLUMBUS FEDERAL COM 21H ROAD
A PIPELINE LOCATED ON FEE LAND IN SECTION 34, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



COLUMBUS FEDERAL COM #21H AND BOTTOM HOLE LOCATION

Located 210' FNL and 330' FEL
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 N.M.P.M., Lea County, New Mexico.



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- - SURFACE LOCATION
- - BOTTOMHOLE
- - WELLS WITHIN 1 MILE RADIUS

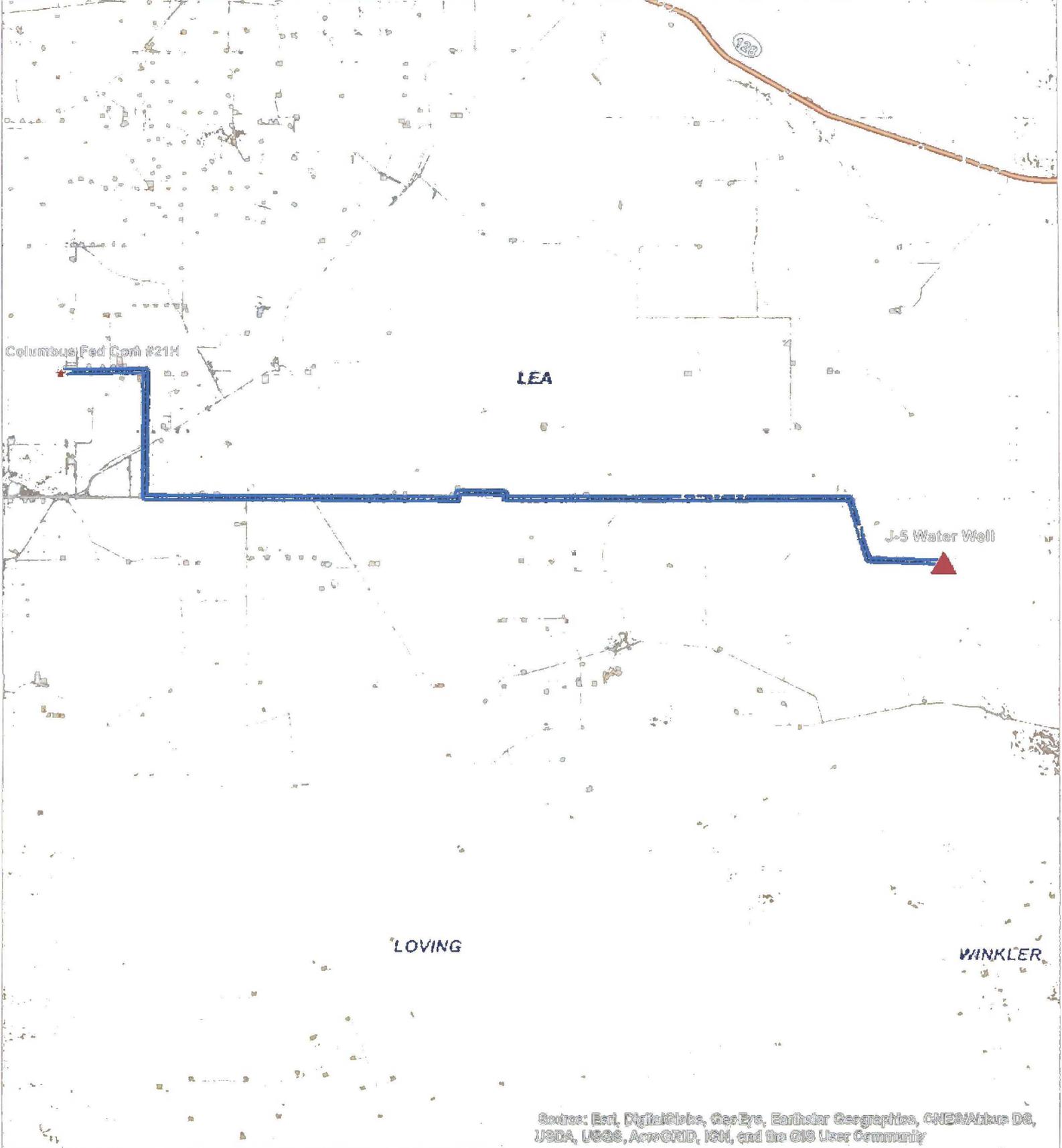
0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: JG 32538

Survey Date: 10-17-2016

**COG
 OPERATING,
 LLC**



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**Columbus Fed Can #21H
Water Transfer Route**

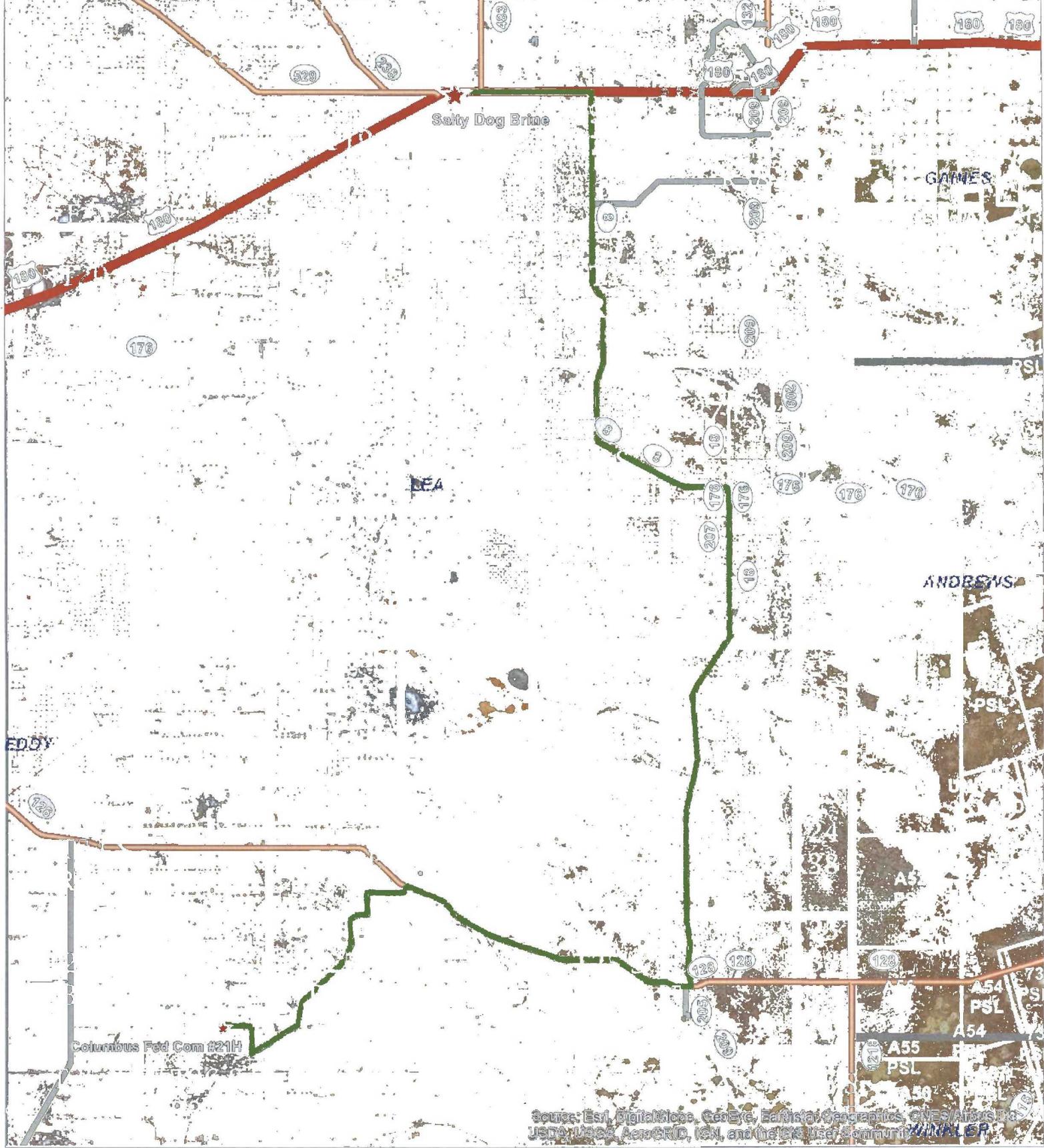
Date: 11/10/2016
 Author: Whytne McDonald
 State: New Mexico
 County: Eddy

1: Scale = 1:250,000

Map Legend

 Route





CONCHO

**Columbus Fed Com #21H
to Salty Dog Brine**

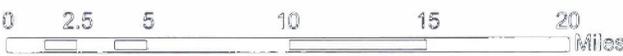
Date: 11/10/2016
 Author: Whytne McDonald
 State: New Mexico
 County: Eddy

100% Digital Vector & Utility Labels
 Metadata: Metadata & Utility Labels
 Date: 09/11/2016
 Date Loaded: 11/10/2016
 Date Modified: 11/10/2016
 Date Published: 11/10/2016
 Author: Whytne McDonald
 State: New Mexico
 County: Eddy

Disclaimer: This is not a legal survey document

Map Legend

Route



Surface Use Plan
COG Operating LLC
Columbus Federal Com #21H
SHL: 210' FNL & 330' FEL UL A
Section 34, T25S, R33E
Lea County
BHL: 200' FSL & 330' FEL UL P
Section 3, T26S, R33E
Lea County, New Mexico

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 21st day of NOVEMBER, 2016.

Signed: _____



Printed Name: Mayte Reyes

Position: Regulatory Analyst

Address: 2208 W. Main Street, Artesia, NM 88210

Telephone: (575) 748-6940

Field Representative (if not above signatory): Rand French

E-mail: mreyes1@concho.com