

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF COLGATE OPERATING, LLC
FOR COMPULSORY POOLING, AND NON-
STANDARD SPACING AND PRORATION UNIT IN
EDDY COUNTY, NEW MEXICO**

CASE NO. 21226

**APPLICATION OF COLGATE OPERATING, LLC
FOR COMPULSORY POOLING, AND NON-
STANDARD SPACING AND PRORATION UNIT IN
EDDY COUNTY, NEW MEXICO**

CASE NO. 21227

AFFIDAVIT

**STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)**

Mark Hadjik, being duly sworn, deposes and states:

1. I am over the age of 18, I am a landman for Colgate Operating. LLC, and have personal knowledge of the matters stated herein. I have previously testified before the Oil Conservation Division ("Division") and my credentials as an expert petroleum landman were accepted by the division as a matter of record.
2. My area of responsibility of Colgate Operating. LLC includes the area of Eddy County in New Mexico.
3. I am familiar with the application filed with by Colgate Operating. LLC.
4. I am familiar with the status of the lands that are subject to these applications.
5. I submit the following information pursuant to NMAC 19.15.4.12.A(1) in support of the above referenced compulsory pooling applications.



6. In Case 21226 Applicant seeks an order pooling all mineral interests within the Winchester Bone Spring Pool (Pool Code 65010), underlying Sections 34 and 33, Township 19 South, Range 28 East, NMPM, Eddy County, New Mexico. Applicant seeks to dedicate the horizontal spacing unit described below to the following four initial wells:

A. **Dawson 34 Fed State Com 123H**

SHL: 1505 feet from the South line and 715 feet from the East line, (Unit I) of Section 34, Township 19 South, Range 28 East, NMPM.
BHL: 1650 feet from the South line and 10 feet from the West line, (Unit L) of Section 33, Township 19 South, Range 28 East, NMPM.
Completion Target: 2nd Bone Spring Sand at approx 7500 feet TVD.
Well Orientation: East to West
Completion Location: standard
Spacing Unit: N/2 S/2 of Section 34 and N/2 S/2 of Section 33.

B. **Dawson 34 Fed State Com 133H**

SHL: 1505 feet from the South line and 760 feet from the East line, (Unit I) of Section 34, Township 19 South, Range 28 East, NMPM.
BHL: 1750 feet from the South line and 10 feet from the West line, (Unit L) of Section 34, Township 19 South, Range 28 East, NMPM.
Completion Target: 3rd Bone Spring Sand at approx 8600 feet TVD.
Well Orientation: East to West
Completion Location: standard
Spacing Unit: N/2 S/2 of Section 34 and N/2 S/2 of Section 33.

C. **Dawson 34 Fed State Com 124H**

SHL: 295 feet from the South line and 560 feet from the East line, (Unit P) of Section 34, Township 19 South, Range 28 East, NMPM.
BHL: 330 feet from the South line and 10 feet from the West line, (Unit M) of Section 33, Township 19 South, Range 28 East, NMPM.
Completion Target: 2nd Bone Spring Sand at approx 7500 feet TVD.
Well Orientation: East to West
Completion Location: standard
Spacing Unit: S/2 S/2 of Section 34 and S/2 S/2 of Section 33.

D. **Dawson 34 Fed State Com 134H**

SHL: 340 feet from the South line and 560 feet from the East line, (Unit P) of Section 34, Township 19 South, Range 28 East, NMPM.
BHL: 430 feet from the South line and 10 feet from the West line, (Unit M) of Section 33, Township 19 South, Range 28 East, NMPM.
Completion Target: 3rd Bone Spring Sand at approx 8600 feet TVD.
Well Orientation: East to West
Completion Location: standard
Spacing Unit: S/2 S/2 of Section 34 and S/2 S/2 of Section 33.

Attached hereto as Exhibits 1, 2, 3, and 4 are copies of the C-102s for the foregoing wells, together with associated and aerial maps.

7. In Case 21227 Applicant seeks an order pooling all mineral interests within the Winchester Bone Spring Pool (Pool Code 65010), underlying Sections 34 and 33, Township 19 South, Range 28 East, NMPM, Eddy County, New Mexico. Applicant seeks to dedicate the horizontal spacing unit described below to the following four initial wells:

- A. **Shamrock 34 Fed State Com 121H**
SHL: 700 feet from the North line and 330 feet from the West line, (Unit D) of Section 35, Township 19 South, Range 28 East, NMPM.
BHL: 990 feet from the North line and 10 feet from the West line, (Unit D) of Section 33, Township 19 South, Range 28 East, NMPM.
Completion Target: 2nd Bone Spring Sand at approx 7500 feet TVD.
Well Orientation: East to West
Completion Location: standard
Spacing Unit: N/2 N/2 of Section 34 and N/2 N/2 of Section 33
- B. **Shamrock 34 Fed State Com 131H**
SHL: 655 feet from the North line and 330 feet from the West line, (Unit D) of Section 35, Township 19 South, Range 28 East, NMPM.
BHL: 890 feet from the North line and 10 feet from the West line, (Unit D) of Section 33, Township 19 South, Range 28 East, NMPM.
Completion Target: 3rd Bone Spring Sand at approx 8600 feet TVD.
Well Orientation: East to West
Completion Location: standard
Spacing Unit: N/2 N/2 of Section 34 and N/2 N/2 of Section 33
- C. **Shamrock 34 Fed State Com 122H**
SHL: 2610 feet from the South line and 295 feet from the East line, (Unit I) of Section 34, Township 19 South, Range 28 East, NMPM.
BHL: 2310 feet from the North line and 10 feet from the West line, (Unit E) of Section 33, Township 19 South, Range 28 East, NMPM.
Completion Target: 2nd Bone Spring Sand at approx 7500 feet TVD.
Well Orientation: East to West
Completion Location: standard
Spacing Unit: S/2 N/2 of Section 34 and S/2 N/2 of Section 33
- D. **Shamrock 34 Fed State Com 132H**
SHL: 2610 feet from the South line and 340 feet from the East line, (Unit I) of Section 34, Township 19 South, Range 28 East, NMPM.
BHL: 2210 feet from the North line and 10 feet from the West line, (Unit E) of Section 33, Township 19 South, Range 28 East, NMPM.
Completion Target: 3rd Bone Spring Sand at approx 8600 feet TVD.
Well Orientation: East to West
Completion Location: standard

Spacing Unit: S/2 N/2 of Section 34 and S/2 N/2 of Section 33.

Attached hereto as **Exhibits 5, 6, 7 and 8** are copies of the C-102s for the foregoing wells, together with associated and aerial maps.

8. The parties being pooled and the percent of their interests are shown in **Exhibits 9 and 10** for the respective cases. The owners of overriding royalty interests are also identified in Exhibits 9 and 10.

9. Colgate Operating LLC have conducted a diligent search of the public records in the county where the wells are located and conducted phone directory and computer searches to locate contact information for parties entitled to notification, and mailed all parties well proposals. Copies of Communication Timelines are attached hereto as **Exhibits 11 and 12** for both cases.

10. In my opinion, Colgate Operating. LLC has made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells.

11. **Exhibit 13 and 14** is a copy of a proposal letter sent to working interest owners, which were sent on November 4, 2019, for the proposed wells in both cases together with AFEs.

12. The proposal letters identified the proposed first and last take points and approximate TVD.

13. **Exhibit 15** contains the Authorization for Expenditure for the proposed wells. The estimated cost of the wells set forth therein is fair and reasonable and is comparable to the costs of other wells of similar depths and length drilled in this area of New Mexico. Colgate Operating. LLC requests overhead and administrative rates of \$8,000.00/month for drilling a well and \$800.00/month for a producing well. These rates are fair, and comparable to the rates charged by other operators for wells of this type in this area of Southeastern, New Mexico. Colgate Operating. LLC requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

14. Colgate Operating, LLC requests the maximum cost plus 200% risk charge be assessed against non-consenting working interest owners.

15. Colgate Operating, LLC requests that it be designated operator of the wells.

16. The attachments to this affidavit were prepared by me, or compiled from company business records, or were prepared at my direction.

17. I attest that the information provided herein is correct and complete to the best of my knowledge and belief.

18. The granting of this application is in the interests of conservation and the prevention of waste.

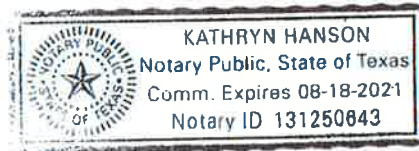
Mark Hadjik
MARK HADJIK

SUBSCRIBED AND SWORN to before me this 26th day of May, 2020, by MARK HADJIK on behalf of Colgate Operating, LLC

Kathryn Hanson
Notary Public

My Commission Expires:

8/18/21



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 Road, 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) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name					
⁴ Property Code		⁵ Property Name DAWSON 34 FED COM						⁶ Well Number 123H	
⁷ OGRID No. 371449		⁸ Operator Name COLGATE OPERATING, LLC						⁹ Elevation 3304.5	
¹⁰ Surface Location									
UL or lot no. I	Section 34	Township 19 S	Range 28 E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
					1505	SOUTH	715	EAST	
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. L	Section 33	Township 19 S	Range 28 E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
					1650	SOUTH	10	WEST	
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.

<p>NW CORNER SEC. 33 LAT. = 32.6243712°N LONG. = 104.1897528°W NMSP EAST (FT) N = 590908.93 E = 585541.53</p>		<p>N/4 CORNER SEC. 33 LAT. = 32.6244127°N LONG. = 104.1812729°W NMSP EAST (FT) N = 590925.84 E = 588152.20</p>		<p>LAT. = 32.6244550°N LONG. = 104.1727993°W NMSP EAST (FT) N = 590944.89 E = 590760.93</p>		<p>N/4 CORNER SEC. 34 LAT. = 32.6244929°N LONG. = 104.1643165°W NMSP EAST (FT) N = 590962.73 E = 593372.50</p>		<p>LAT. = 32.6245314°N LONG. = 104.1558342°W NMSP EAST (FT) N = 590980.97 E = 595983.91</p>	
<p>N89°35'22"E 2611.38 FT N89°34'38"E 2609.43 FT N89°36'31"E 2612.27 FT N89°36'00"E 2612.11 FT</p>									
<p>SEC. 33 SEC. 34</p>									
<p>N/4 CORNER SEC. 33 LAT. = 32.6171414°N LONG. = 104.1903140°W NMSP EAST (FT) N = 586276.46 E = 585372.29</p>									
<p>QUARTER CORNER LAT. = 32.6172067°N LONG. = 104.1732124°W NMSP EAST (FT) N = 588307.74 E = 590637.73</p>									
<p>E/4 CORNER SEC. 34 LAT. = 32.6172730°N LONG. = 104.1560961°W NMSP EAST (FT) N = 588340.22 E = 595907.70</p>									
<p>LAST TAKE POINT 1650' FSL, 100' FWL LAT. = 32.6144370°N LONG. = 104.1901991°W NMSP EAST (FT) N = 587292.13 E = 585318.78</p>									
<p>BOTTOM OF HOLE LAT. = 32.6144359°N LONG. = 104.1904921°W NMSP EAST (FT) N = 587292.13 E = 585318.78</p>									
<p>DAWSON 34 FED STATE COM 123H ELEV. = 3304.5' LAT. = 32.6141478°N (NAD83) LONG. = 104.1585355°W NMSP EAST (FT) N = 587202.00 E = 595158.48</p>									
<p>FIRST TAKE POINT 1650' FSL, 100' FEL LAT. = 32.6145529°N LONG. = 104.1565224°W</p>									
<p>SURFACE LOCATION FTP 1505'</p>									
<p>S89°41'20"W 2657.33 FT S89°40'24"W 2656.81 FT S89°40'55"W 2657.67 FT S89°40'46"W 2657.46 FT</p>									
<p>SW CORNER SEC. 33 LAT. = 32.6099003°N LONG. = 104.1908777°W NMSP EAST (FT) N = 585641.87 E = 585202.25</p>		<p>S/4 CORNER SEC. 33 LAT. = 32.6099298°N LONG. = 104.1822499°W NMSP EAST (FT) N = 585656.30 E = 587858.90</p>		<p>SECTION CORNER LAT. = 32.6099608°N LONG. = 104.1736238°W NMSP EAST (FT) N = 585671.44 E = 590515.02</p>		<p>S/4 CORNER SEC. 34 LAT. = 32.6099901°N LONG. = 104.1649949°W NMSP EAST (FT) N = 585688.20 E = 593172.01</p>		<p>SE CORNER SEC. 34 LAT. = 32.6100191°N LONG. = 104.1563667°W NMSP EAST (FT) N = 585701.06 E = 595828.78</p>	

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____


E-mail Address _____

¹⁸ 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.

FEBRUARY 19, 2020

Date of Survey _____

Signature and Seal of Professional Surveyor: 

Certificate Number: **WILLIAM F. JARAMELO PLS 12797**
PROFESSIONAL SURVEYOR NO. 7983

EXHIBIT

Intent ☐ As Drilled ☐

API #		
Operator Name: COLGATE OPERATING, LLC	Property Name: DAWSON 34 FED COM	Well Number 123H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	34	19S	28E		1650	SOUTH	100	EAST	EDDY
Latitude 32.6145529					Longitude 104.1565224				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	33	19S	28E		1650	SOUTH	100	WEST	EDDY
Latitude 32.6144370					Longitude 104.1901991				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

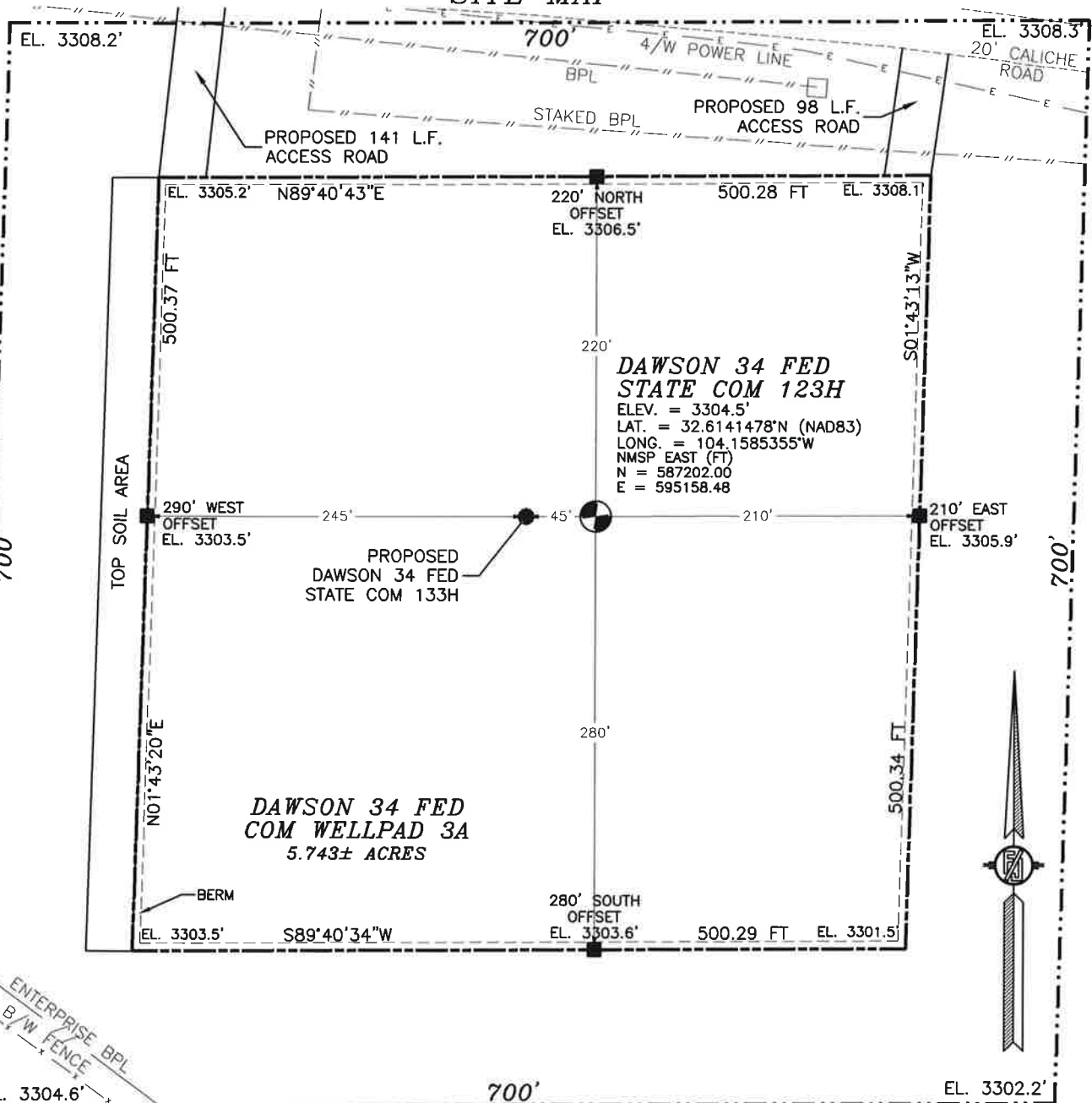
Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

**SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP**



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 0.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.44 MILES, BEND LEFT AND EAST-SOUTHEAST 0.21 MILES TO A ROAD, SURVEY AND FOLLOW FLAGS 141' SOUTH TO THE NORTHEAST CORNER FOR THIS LOCATION.

I, FILMON E. ARRILO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THE FOREGOING IS A TRUE AND CORRECT SURVEY, THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE STANDARDS FOR SURVEYING AND THE MINIMUM

**COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 123H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 715 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO**

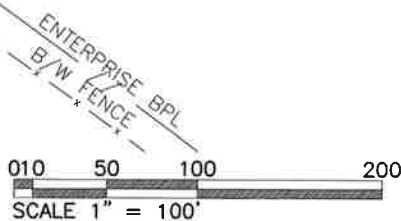
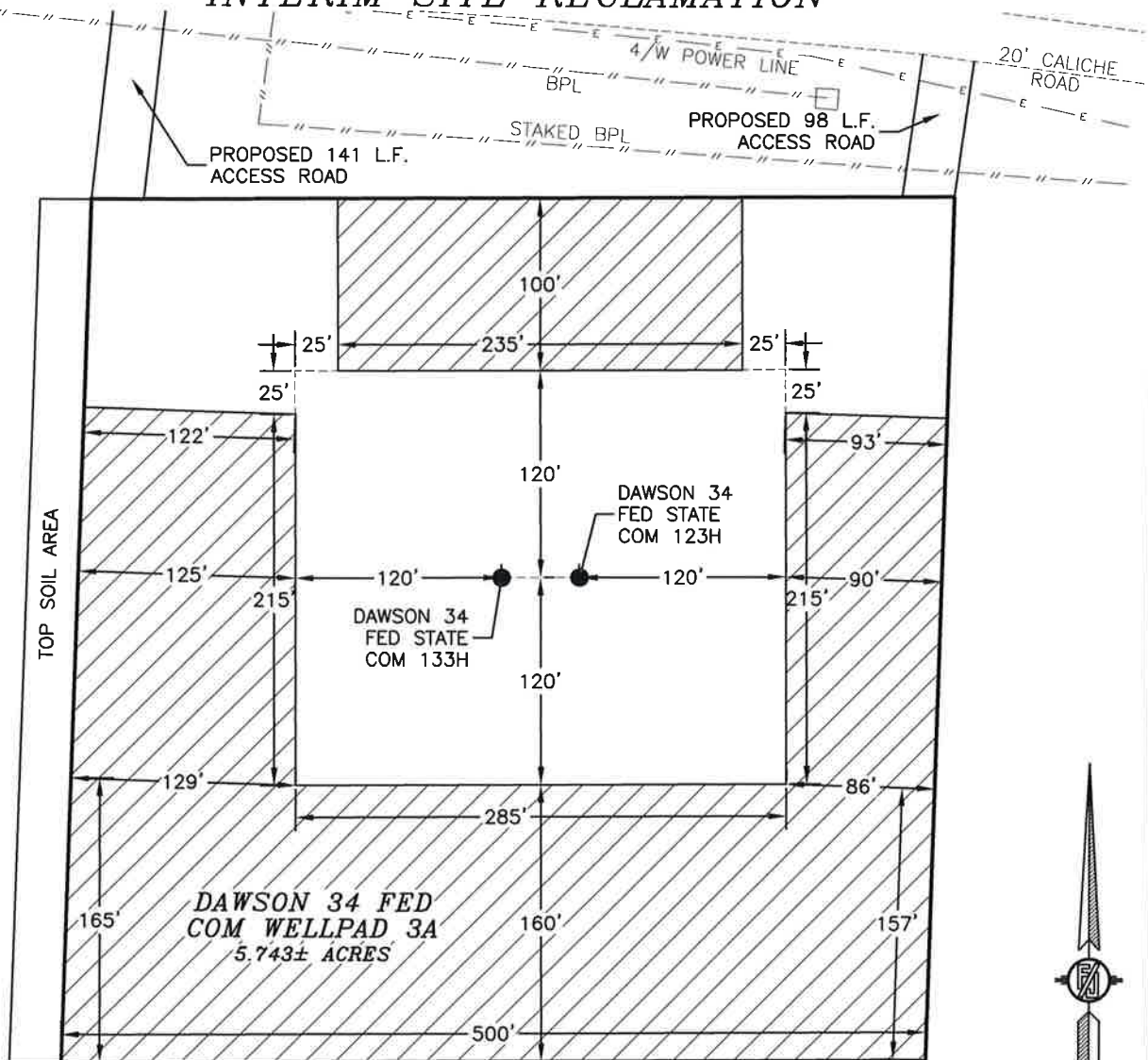
FEBRUARY 19, 2020

SURVEY NO. 7983

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

301 SOUTH CANAL
(575) 234-3341

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



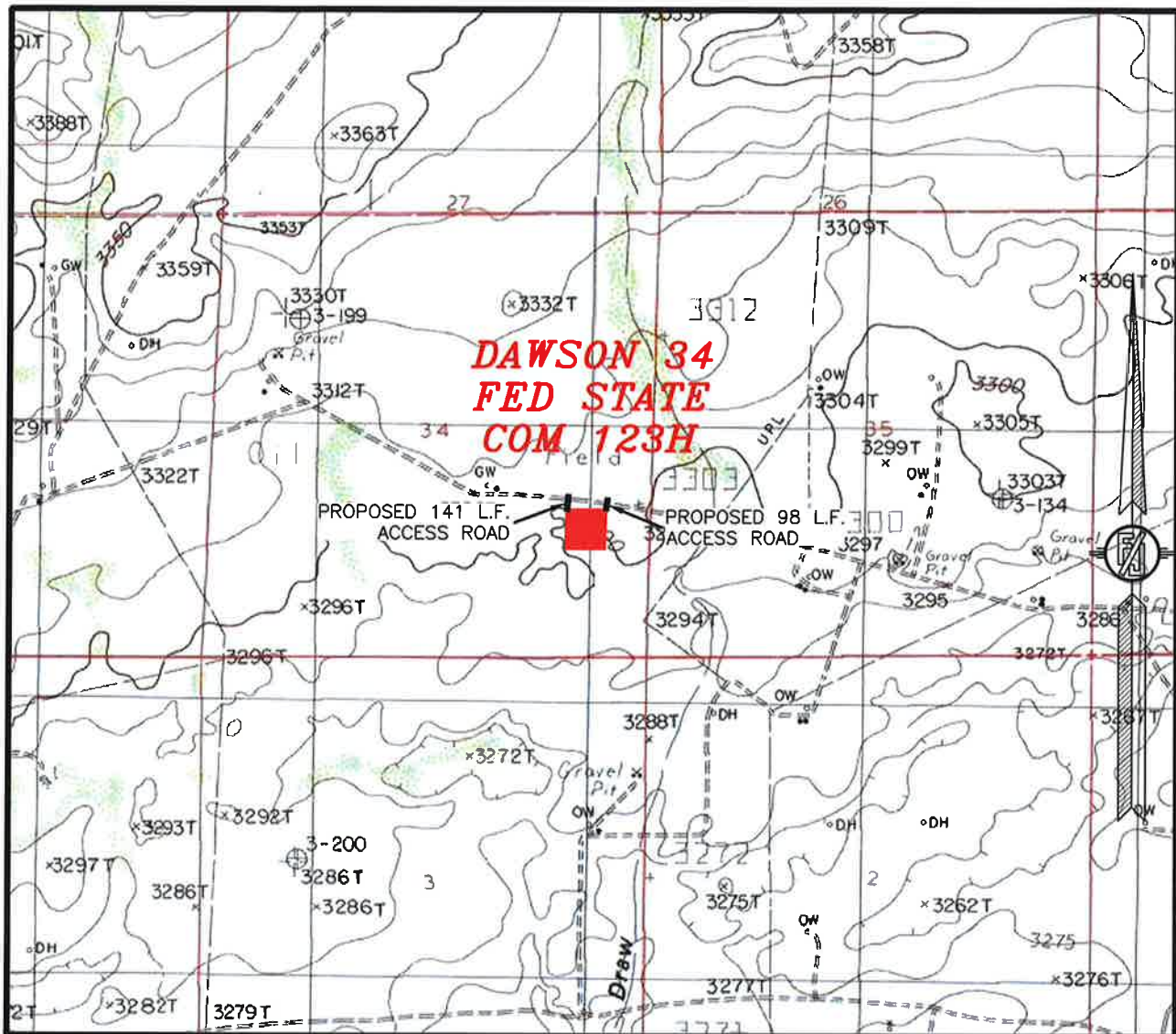
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 123H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 715 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

SURVEY No. 7983

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 ANGEL DRAW

NOT TO SCALE

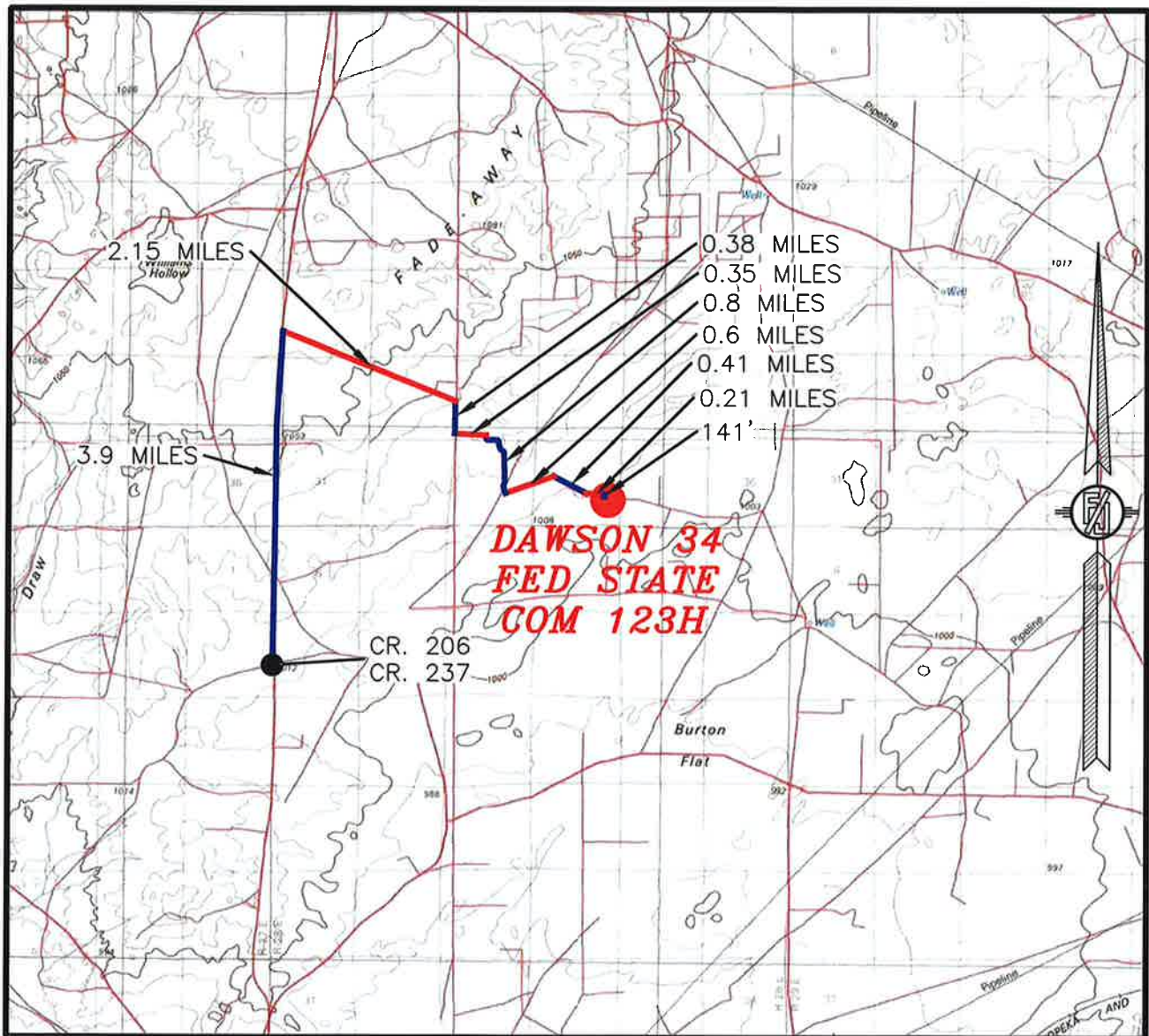
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 123H
 LOCATED 1505 FT. FROM THE SOUTH LINE
 AND 715 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

SURVEY NO. 7983

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.41 MILES, BEND LEFT AND EAST-SOUTHEAST 0.21 MILES TO A ROAD SURVEY AND FOLLOW FLAGS 141' SOUTH TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 123H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 715 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

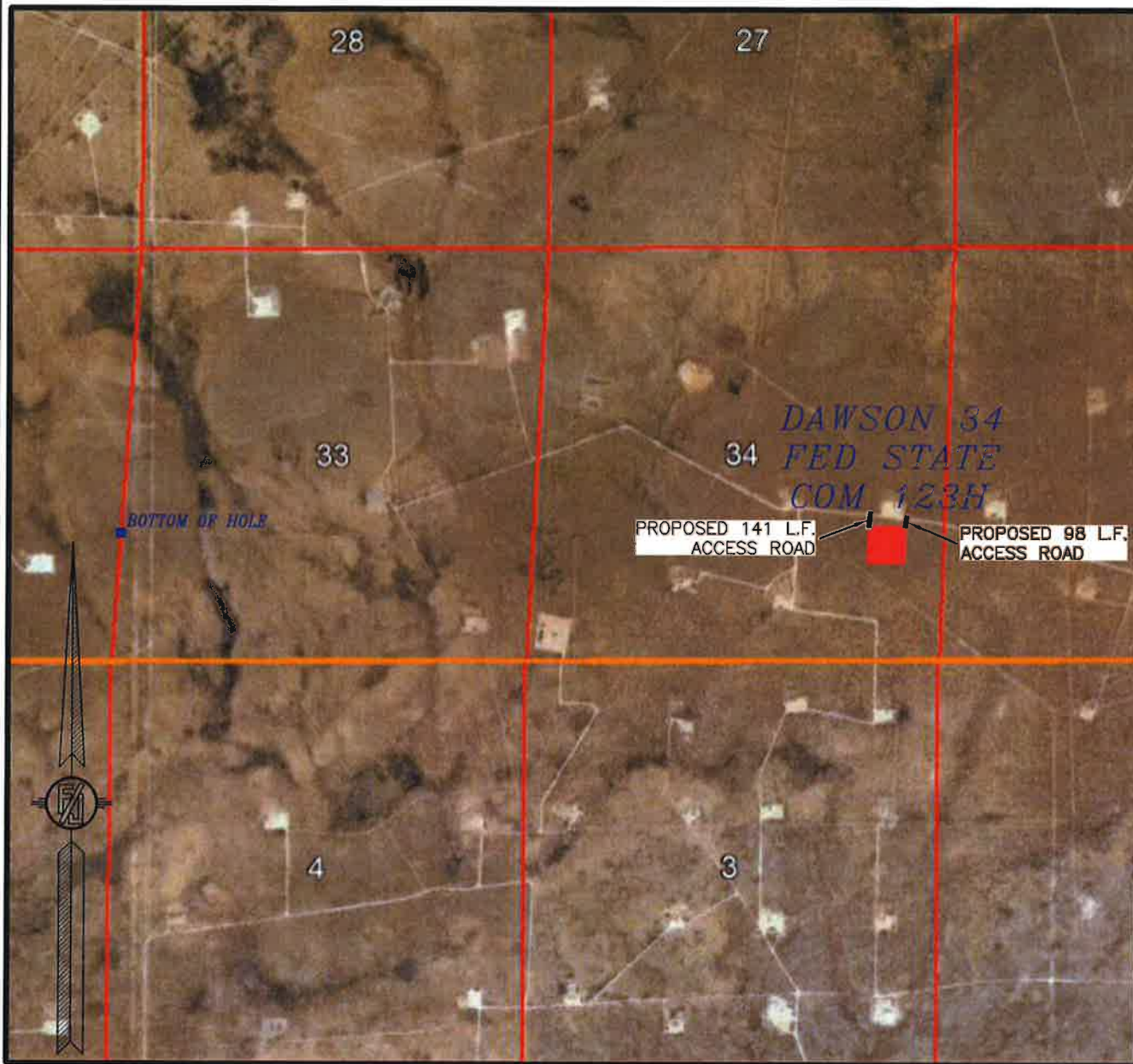
FEBRUARY 19, 2020

SURVEY NO. 7983

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

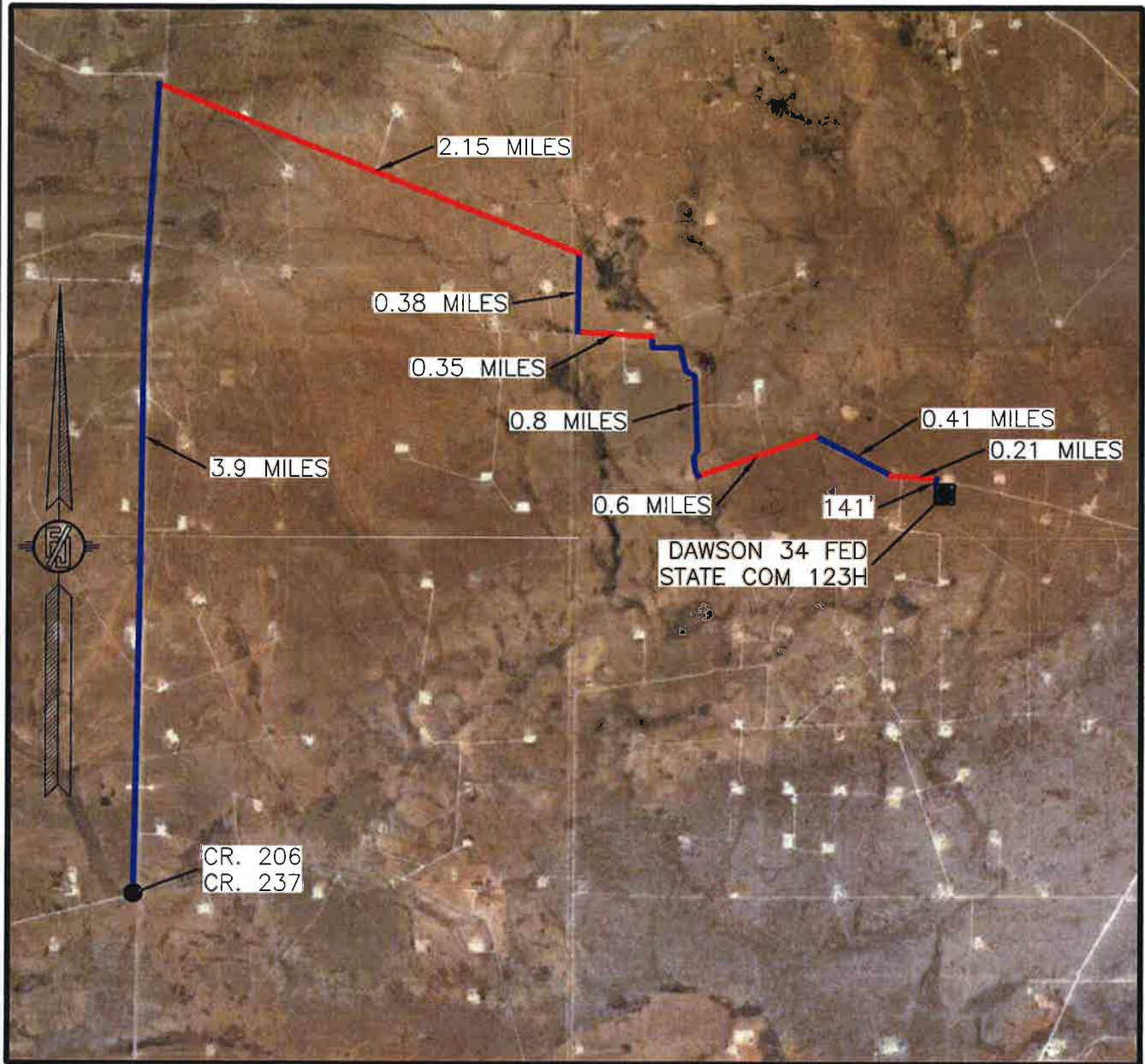
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 123H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 715 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3344

SURVEY NO. 7983
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 123H
 LOCATED 1505 FT. FROM THE SOUTH LINE
 AND 715 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

MADRON SURVEYING, INC.

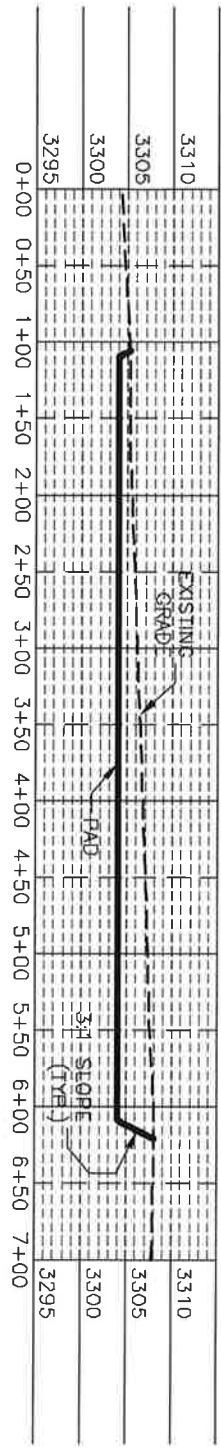
301 SOUTH CANAL
 (575) 234-3341

CARLSBAD, NEW MEXICO

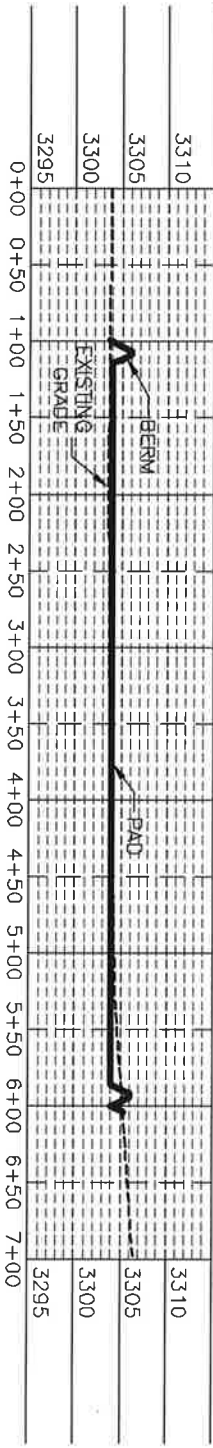
SURVEY NO. 7983

CROSS-SECTIONS

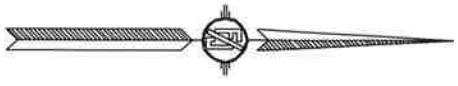
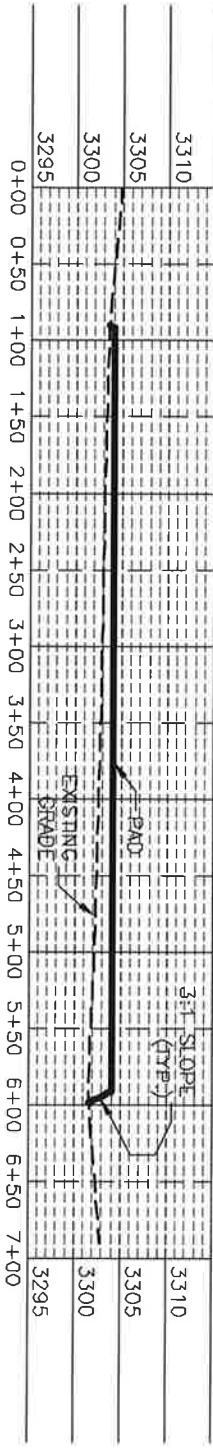
SECTION A-A'



SECTION B-B'



SECTION C-C'



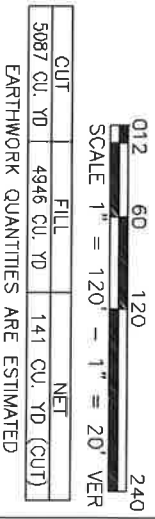
I, FILMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12297, AM RESPONSIBLE FOR THIS SURVEY. THE PLANES, LINES, AND ANGLES SHOWN ON THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLCATE OPERATING, LLC
 PAD GRADING AND CROSS SECTIONS
 FOR DAWSON 34 FED STATE COM 123H
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

IRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SHEET 2-2
 SURVEY NO. 7983

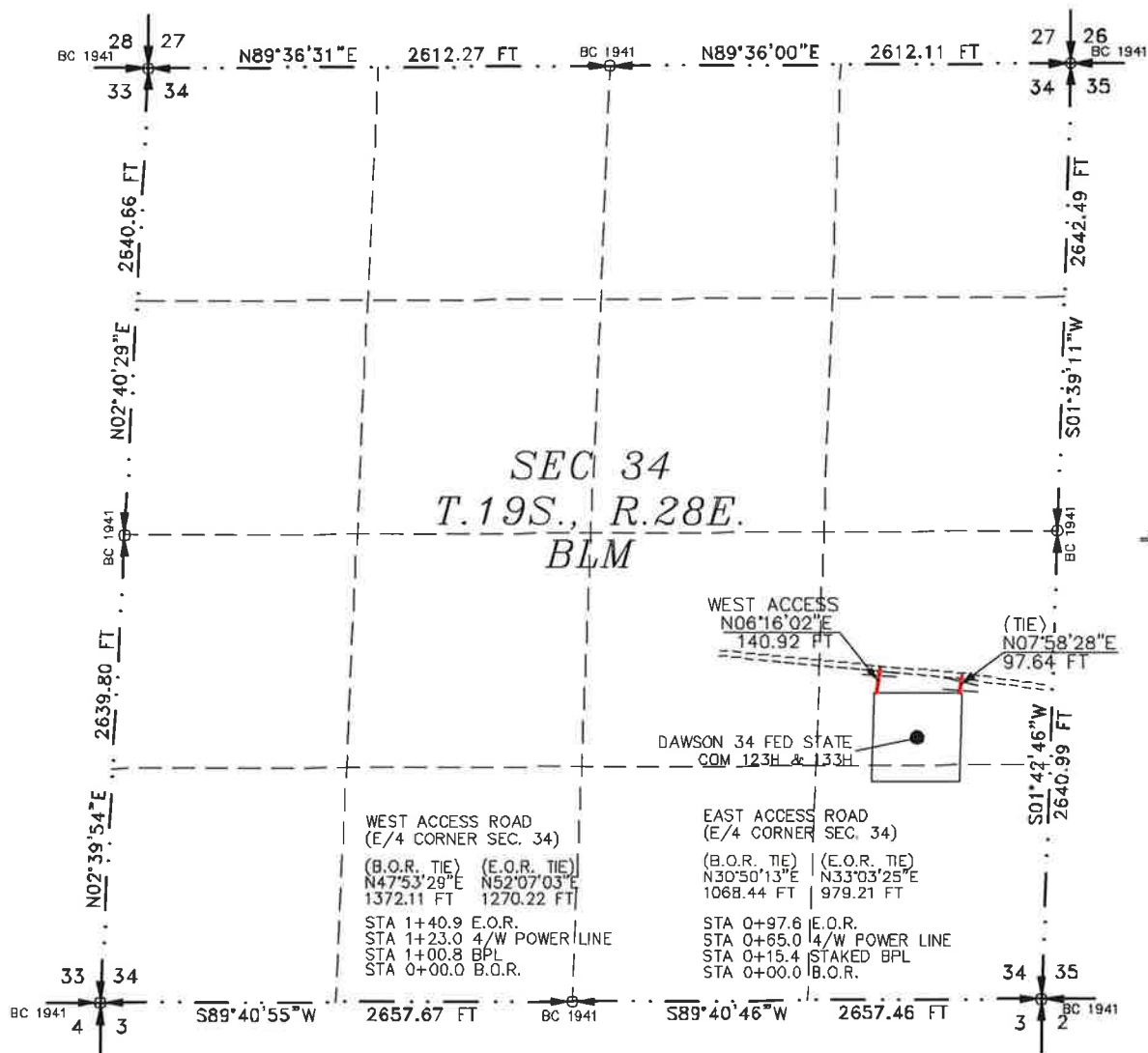


ACCESS ROAD PLAT

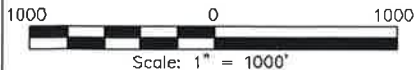
ACCESS ROAD FOR DAWSON 34 FED STATE COM 123H & 133H

COLGATE OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 19, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 19TH DAY OF FEBRUARY 2020

FILMON F. JARAMILLO, PLS. 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7983

ACCESS ROAD PLAT

ACCESS ROAD FOR DAWSON 34 FED STATE COM 123H & 133H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 19, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

WEST ACCESS

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N47°53'29"E, A DISTANCE OF 1372.11 FEET;
THENCE N06°16'02"E A DISTANCE OF 140.92 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N52°07'03"E, A DISTANCE OF 1270.22 FEET;

SAID STRIP OF LAND BEING 140.92 FEET OR 8.54 RODS IN LENGTH, CONTAINING 0.097 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 140.92 L.F. 8.54 RODS 0.097 ACRES

EAST ACCESS

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N30°50'13"E, A DISTANCE OF 1068.44 FEET;
THENCE N07°58'28"E A DISTANCE OF 97.64 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N33°03'25"E, A DISTANCE OF 979.21 FEET;

SAID STRIP OF LAND BEING 97.64 FEET OR 5.92 RODS IN LENGTH, CONTAINING 0.067 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 97.64 L.F. 5.92 RODS 0.067 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 19TH DAY OF FEBRUARY 2020

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7983

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

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 Road, 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) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name DAWSON 34 FED COM			⁶ Well Number 124H
⁷ OGRID No. 371449		⁸ Operator Name COLGATE OPERATING, LLC			⁹ Elevation 3297.7

¹⁰ Surface Location

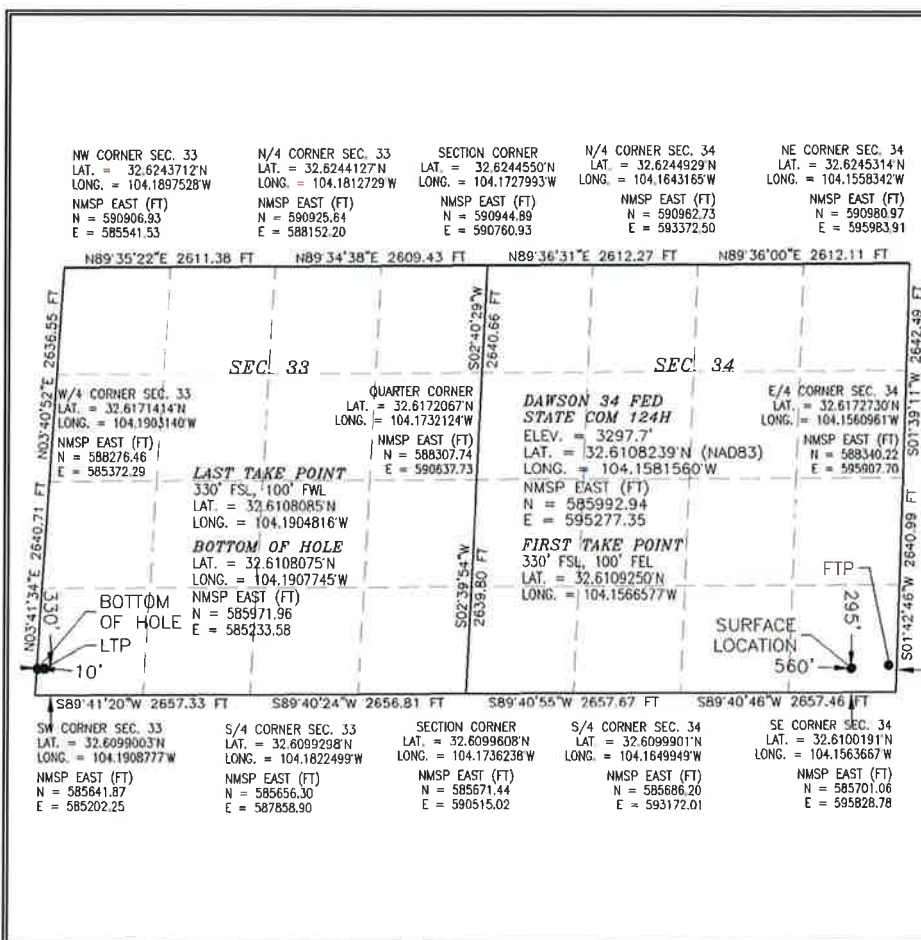
UL or lot no. P	Section 34	Township 19 S	Range 28 E	Lot Idn	Feet from the 295	North/South line SOUTH	Feet from the 560	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. M	Section 33	Township 19 S	Range 28 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 10	East/West line WEST	County EDDY
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature	Date
Printed Name	
E-mail Address	

¹⁸ 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.

FEBRUARY 14, 2020

Date of Survey	Signature and Seal of Professional Surveyor
Certificate Number: 12797	Professional Surveyor No. 7981

EXHIBIT

2

Intent ☐ As Drilled ☐

API #

Operator Name:
COLGATE OPERATING, LLC

Property Name:
DAWSON 34 FED COM

Well Number
124H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	34	19S	28E		330	SOUTH	100	EAST	EDDY
Latitude 32.6109250					Longitude 104.1566577				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	33	19S	28E		330	SOUTH	100	WEST	EDDY
Latitude 32.6108085					Longitude 104.1904816				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

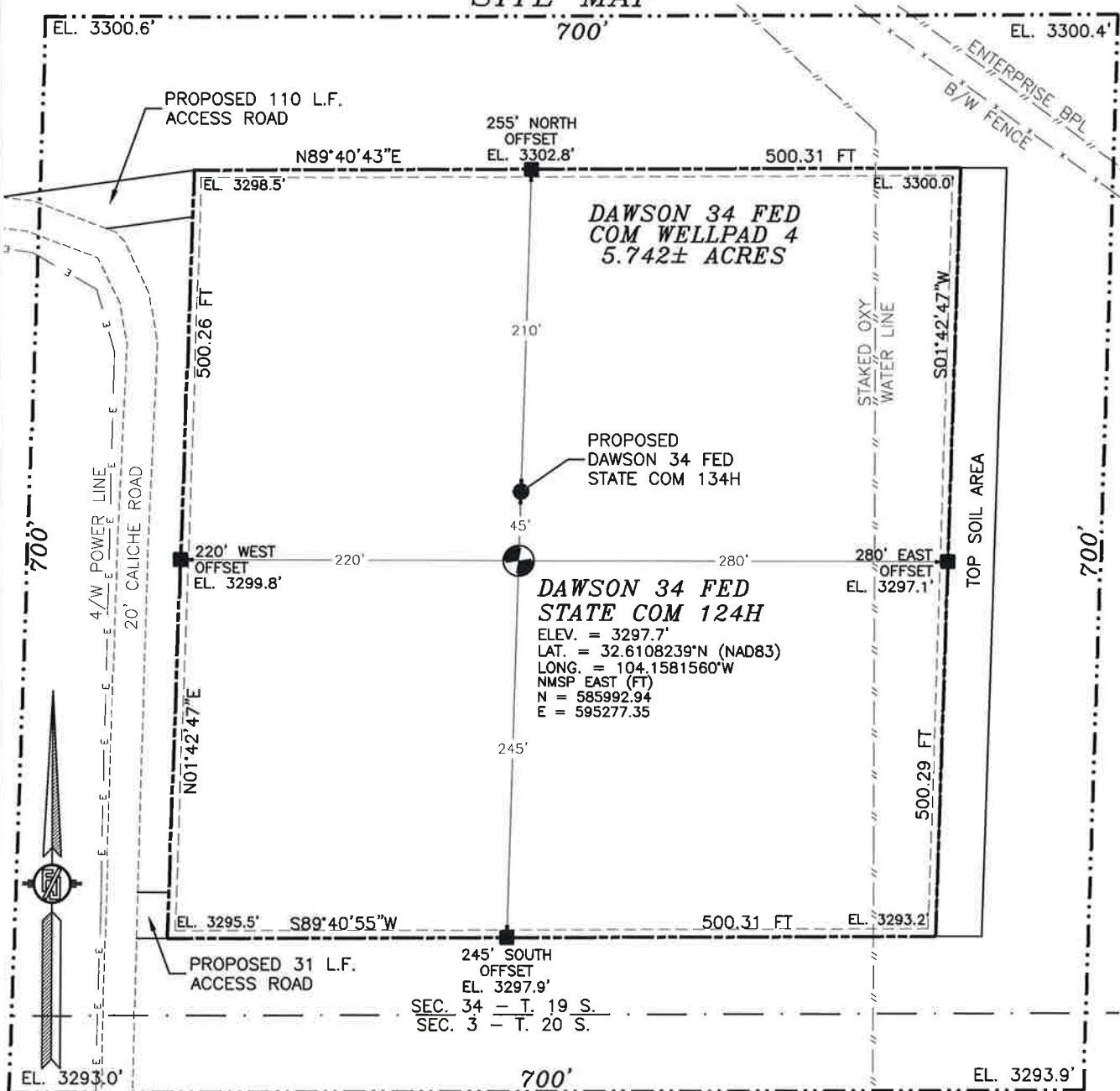
Operator Name:

Property Name:

Well Number

KZ 06/29/2018

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



0 10 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.55 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.41 MILES, TURN LEFT AND GO SOUTH 0.25 MILES, TURN LEFT AND GO EAST-SOUTHEAST 0.1 MILES TO ROAD SURVEY AND FOLLOW FLAGS EAST 110' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT I HAVE PERSONALLY CONDUCTED THIS SURVEY, THAT THE INSTRUMENTS USED WERE OF SUFFICIENT ACCURACY, AND THAT I AM A MEMBER OF THE NEW MEXICO SURVEYORS' ASSOCIATION.

FILMON F. JARAMILLO, SURVEYOR

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

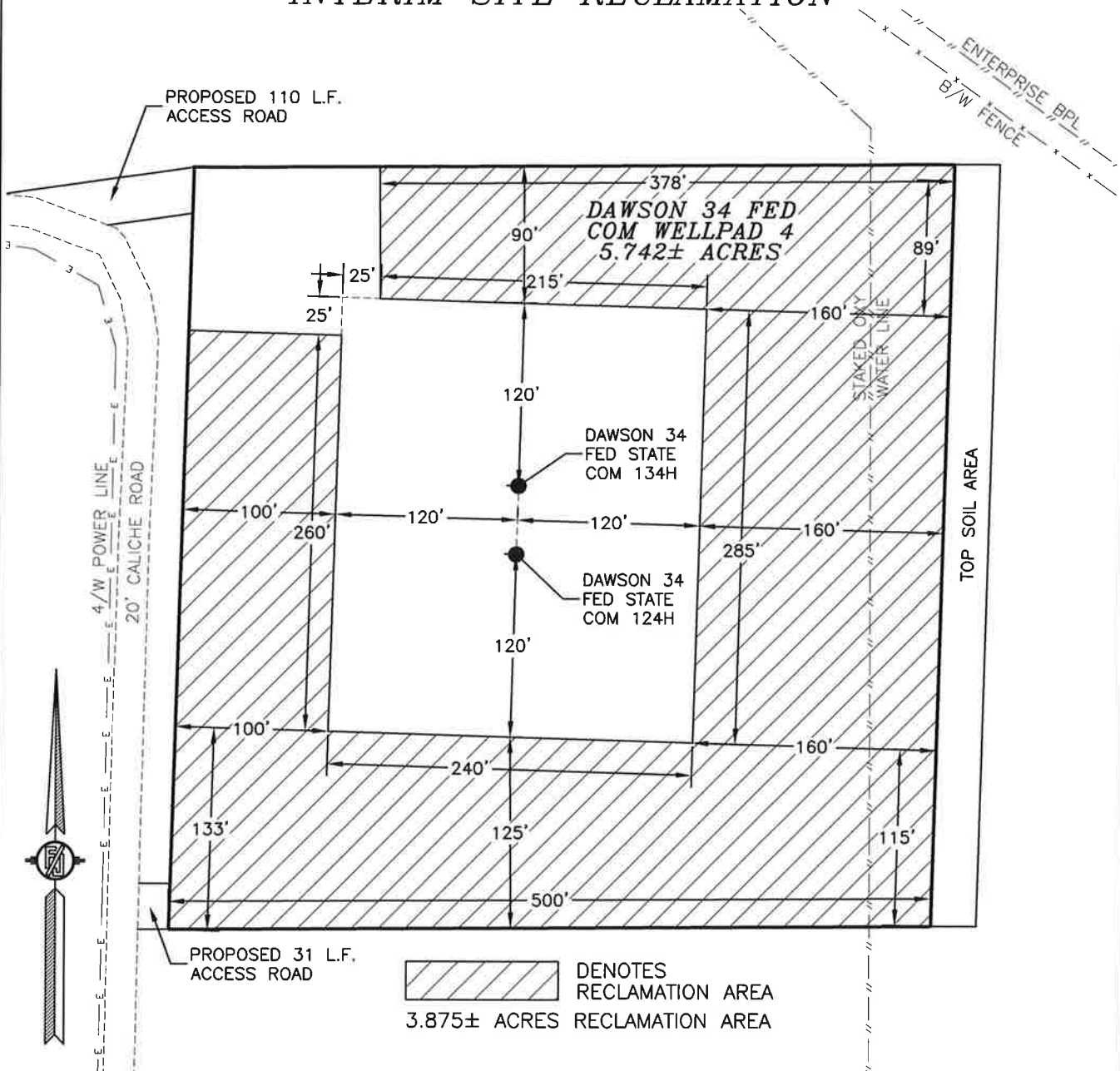
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 124H
LOCATED 295 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



010 50 100 200
SCALE 1" = 100'

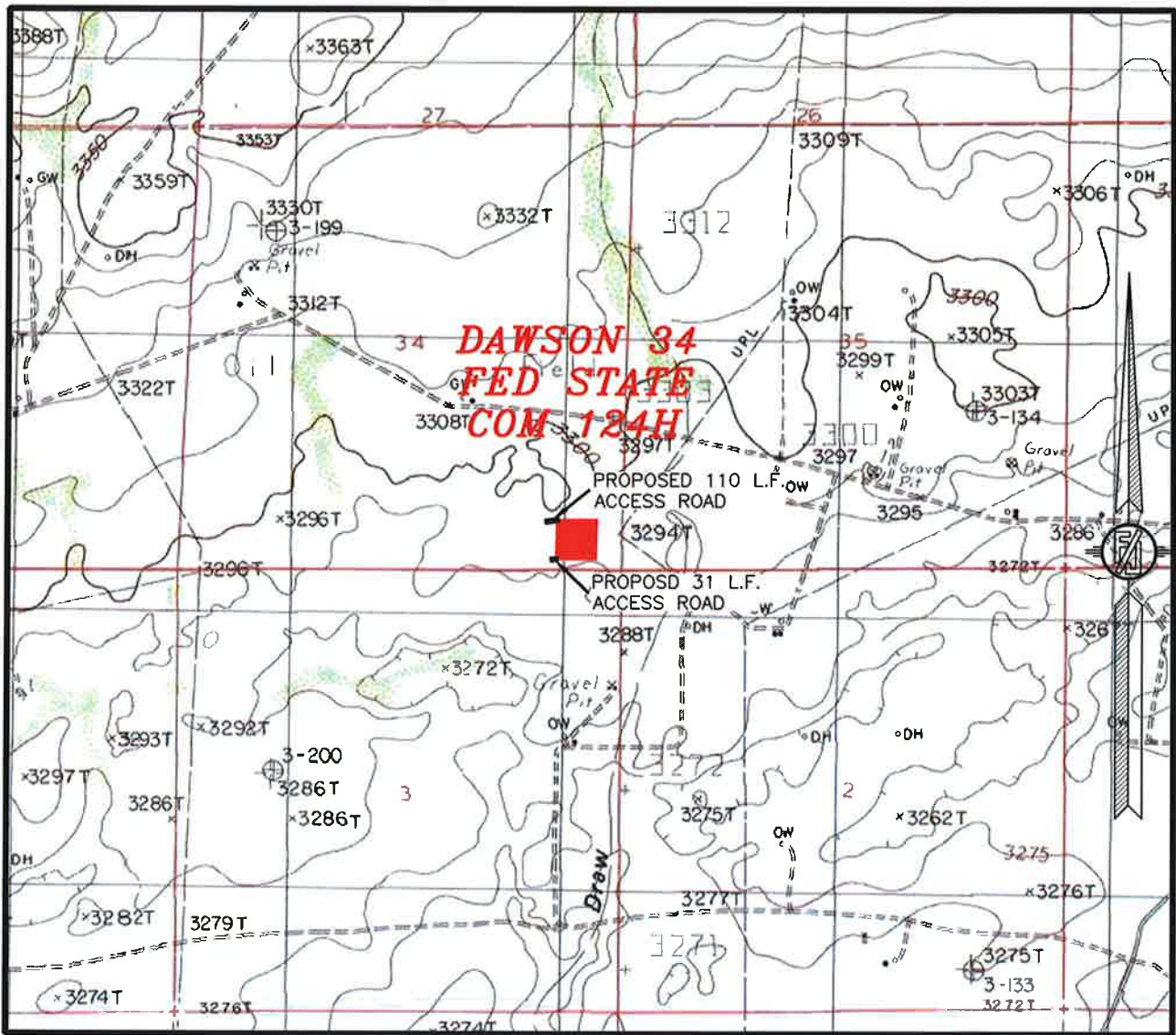
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 124H
LOCATED 295 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ANGEL DRAW

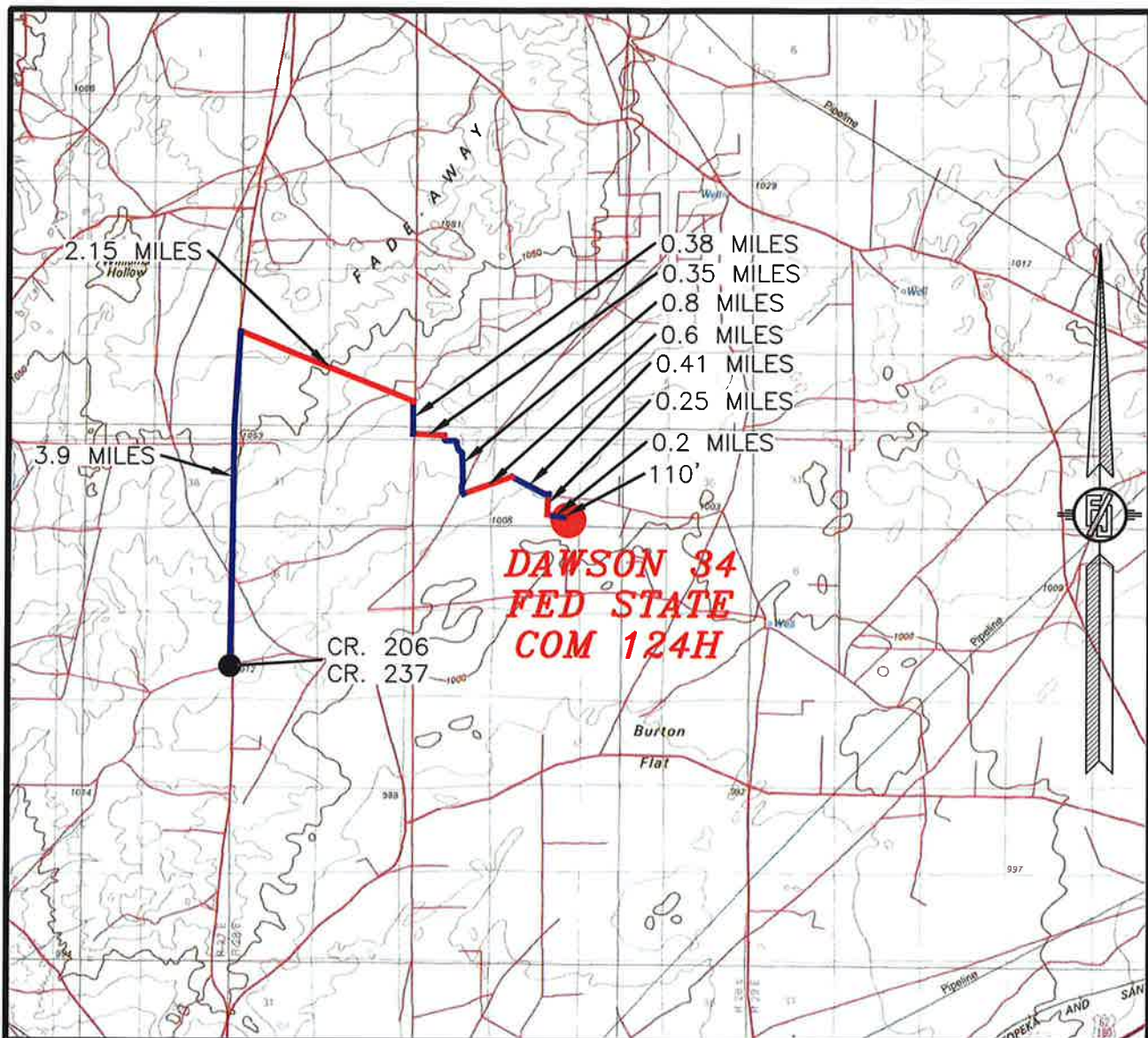
NOT TO SCALE

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 124H
LOCATED 295 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341 SURVEY NO. 7981

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.41 MILES, BEND LEFT AND GO SOUTH 0.25 MILES, TURN LEFT AND GO EAST-SOUTHEAST 0.2 MILES TO ROAD SURVEY AND FOLLOW FLAGS EAST 110' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

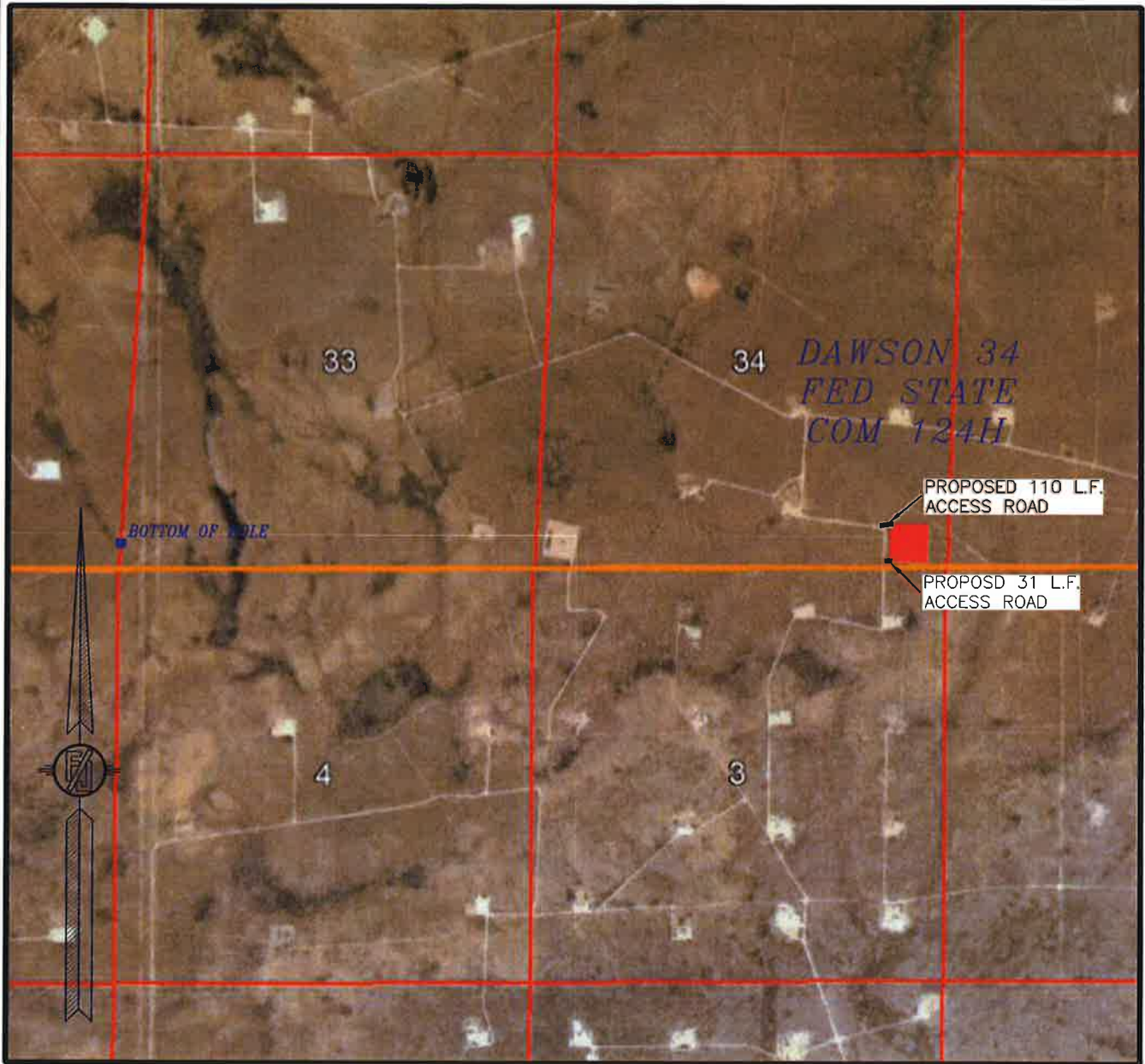
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 124H
LOCATED 295 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7981
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

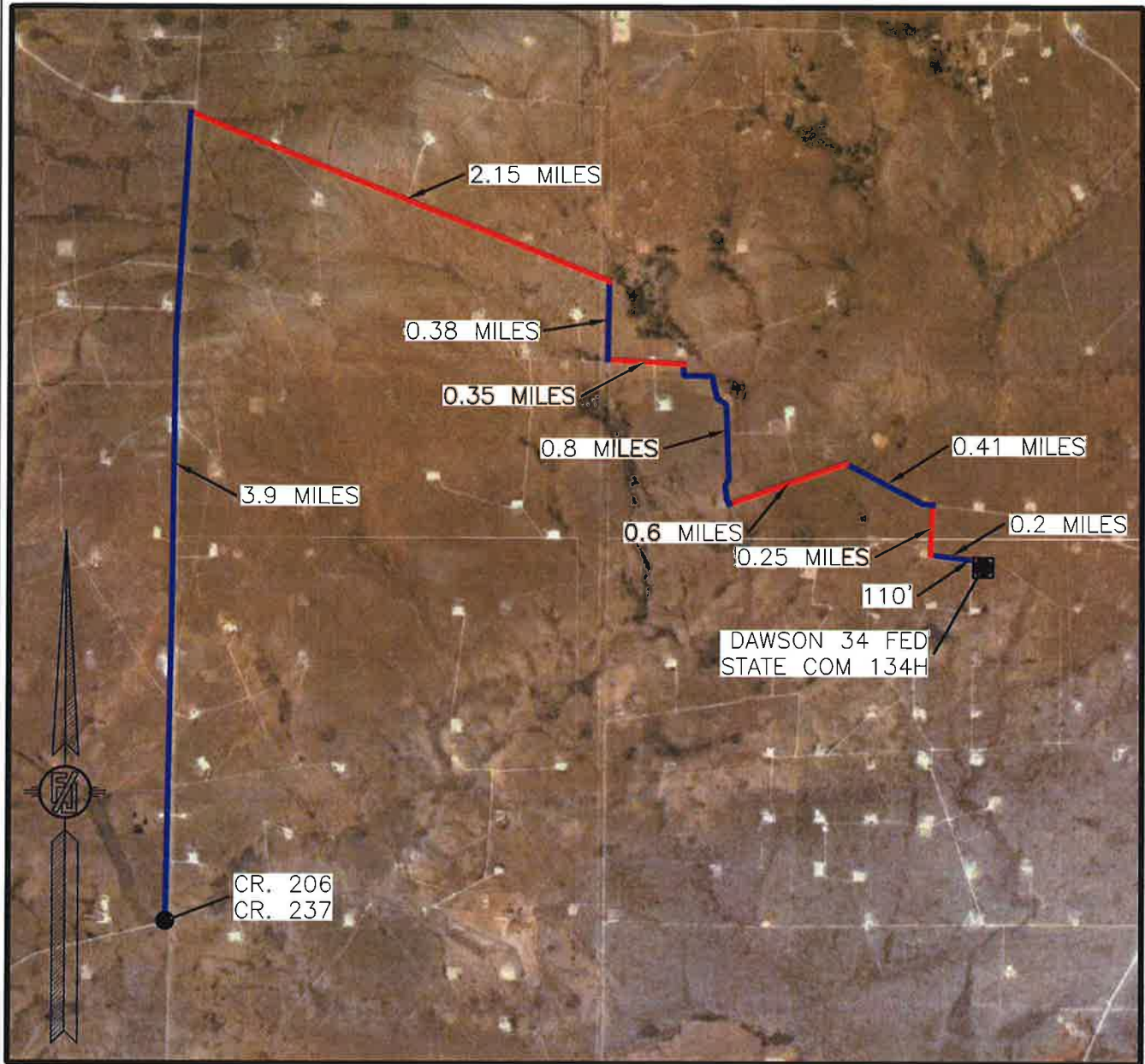
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 124H
LOCATED 295 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3344 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 124H
LOCATED 295 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

MADRON SURVEYING, INC. 301 SOUTH CANAL, CARLSBAD, NEW MEXICO
(575) 234-3341



LIMITS OF
EARTHWORK
3:1 SLOPE (TYP.)

1. FILMON F. JARAMA, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 1541, IS NOT RESPONSIBLE FOR THIS SURVEY. THE ONLY SURVEYOR IN NEW MEXICO WHOSE BEST OF MY KNOWLEDGE AND BELIEF IS IN THE SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR A SURVEYOR IN NEW MEXICO.

FEBRUARY 14, 2020

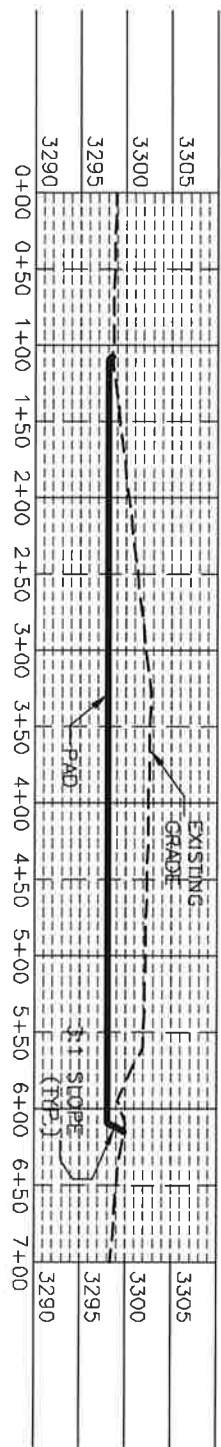
SHEET 1-2
SURVEY NO. 7981

012 60 120 240

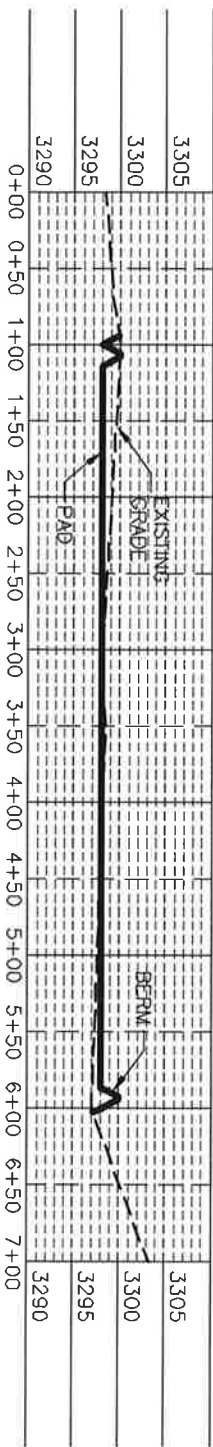
SCALE 1" = 120'

CROSS-SECTIONS

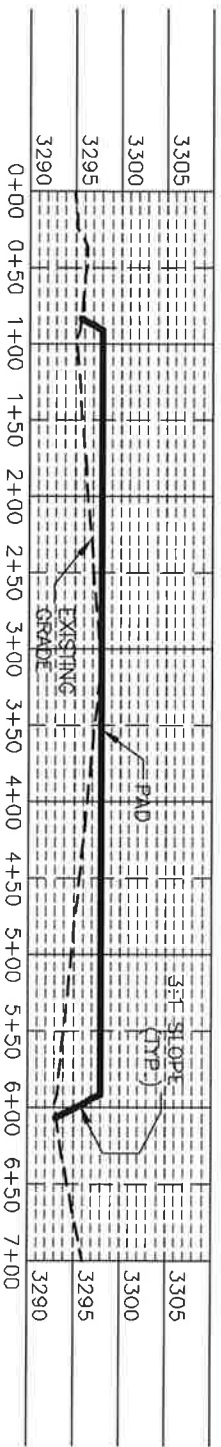
SECTION A-A'



SECTION B-B'



SECTION C-C'



I, FILMON F. JARAMILA, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12299, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND SKILL AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLCATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR DAWSON 34 FED STATE COM 124H
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

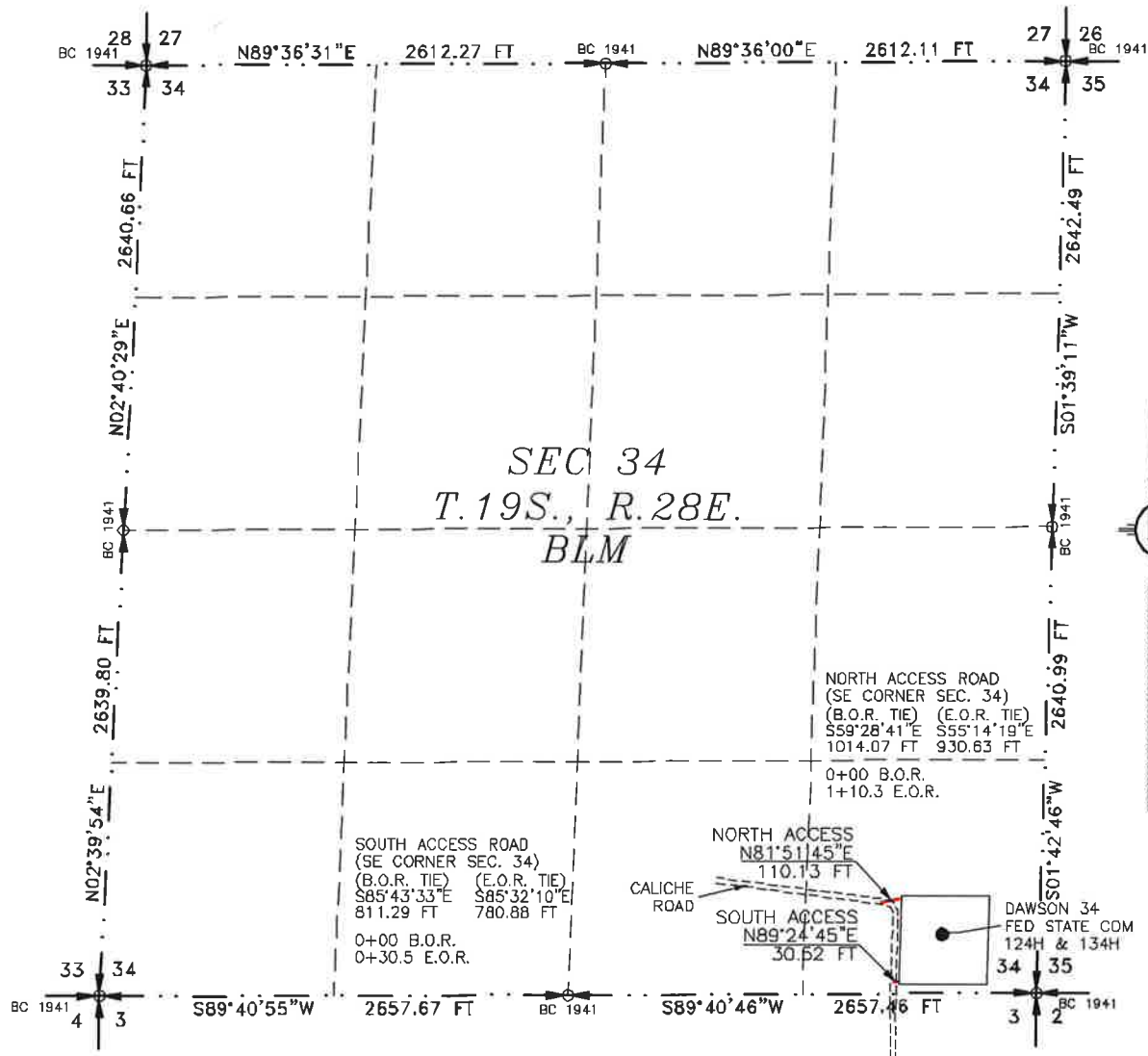
IRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SHEET 2-2 SURVEY NO. 79841



ACCESS ROAD PLAT
ACCESS ROAD FOR DAWSON 34 FED STATE COM 124H & 134H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC.

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14 DAY OF FEBRUARY 2020

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7981

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR DAWSON 34 FED STATE COM 124H & 134H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

NORTH ACCESS

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S59°28'41"E, A DISTANCE OF 1014.07 FEET;

THENCE N81°51'45"E A DISTANCE OF 110.13 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S55°14'19"E, A DISTANCE OF 930.63 FEET;

SAID STRIP OF LAND BEING 110.13 FEET OR 6.67 RODS IN LENGTH, CONTAINING 0.076 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 110.13 L.F. 6.67 RODS 0.076 ACRES

SOUTH ACCESS

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S85°43'33"E, A DISTANCE OF 811.29 FEET;

THENCE N89°24'45"E A DISTANCE OF 30.52 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S85°32'10"E, A DISTANCE OF 780.88 FEET;

SAID STRIP OF LAND BEING 30.52 FEET OR 1.85 RODS IN LENGTH, CONTAINING 0.021 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 30.52 L.F. 1.85 RODS 0.021 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14 DAY OF FEBRUARY 2020

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. 301 SOUTH CANAL, CARLSBAD, NEW MEXICO
(575) 234-3341

SURVEY NO. 7981

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 Road, 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) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name DAWSON 34 FED COM	⁶ Well Number 133H
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁹ Elevation 3304.3

¹⁰ Surface Location

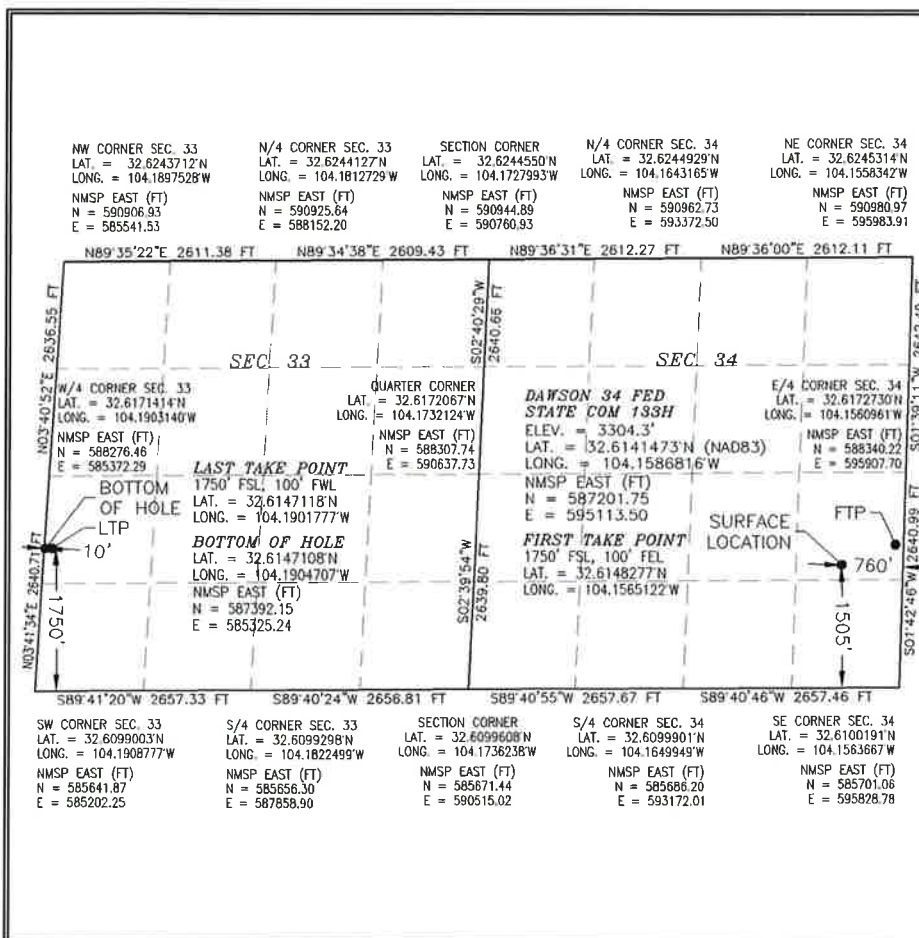
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	19 S	28 E		1505	SOUTH	760	EAST	EDDY

¹¹ 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
L	33	19 S	28 E		1750	SOUTH	10	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____
Printed Name _____
E-mail Address _____

¹⁸ 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.

FEBRUARY 19, 2020

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: JAMES E. JARAMILLO, P.S. 12797
NEW MEXICO PROFESSIONAL SURVEYORS, NO. 7984

EXHIBIT

3

Intent ☐ As Drilled ☐

API #		
Operator Name: COLGATE OPERATING, LLC	Property Name: DAWSON 34 FED COM	Well Number 133H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL I	Section 34	Township 19S	Range 28E	Lot	Feet 1750	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.6148277					Longitude 104.1565122				NAD 83

Last Take Point (LTP)

UL L	Section 33	Township 19S	Range 28E	Lot	Feet 1750	From N/S SOUTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6147118					Longitude 104.1901777				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

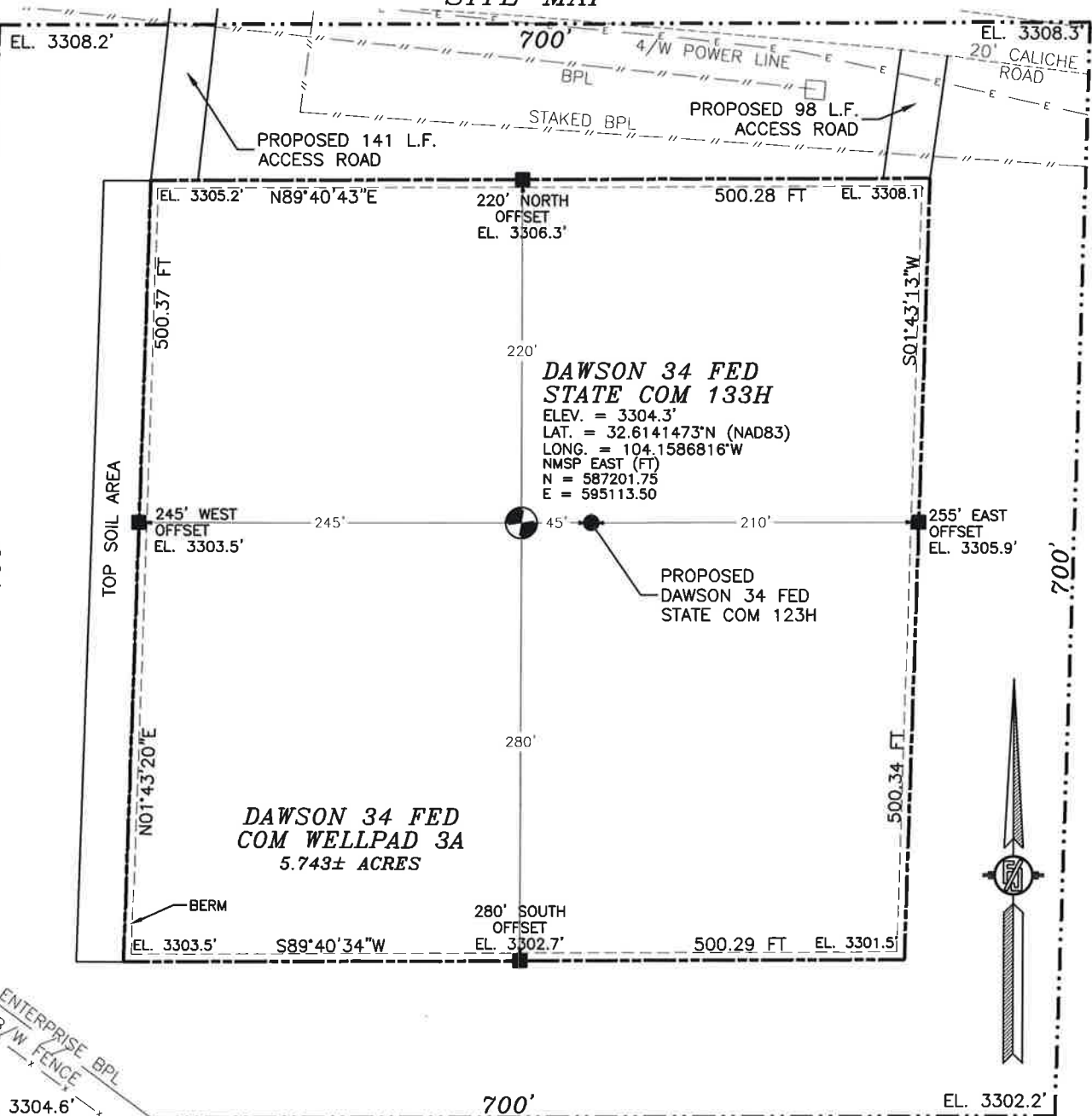
Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

**SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP**



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 0.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.4 MILES, BEND LEFT AND EAST-SOUTHEAST 0.21 MILES TO A ROAD, SURVEY AND FOLLOW FLAGS 141' SOUTH TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT THE DIRECTIONS TO THIS LOCATION ARE TRUE TO MY KNOWLEDGE AND BELIEF, AND THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE MINIMUM STANDARDS FOR SURVEYS IN NEW MEXICO.

FILMON F. JARAMILLO, REGISTERED PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

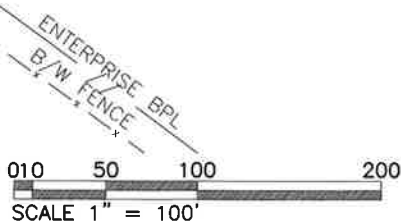
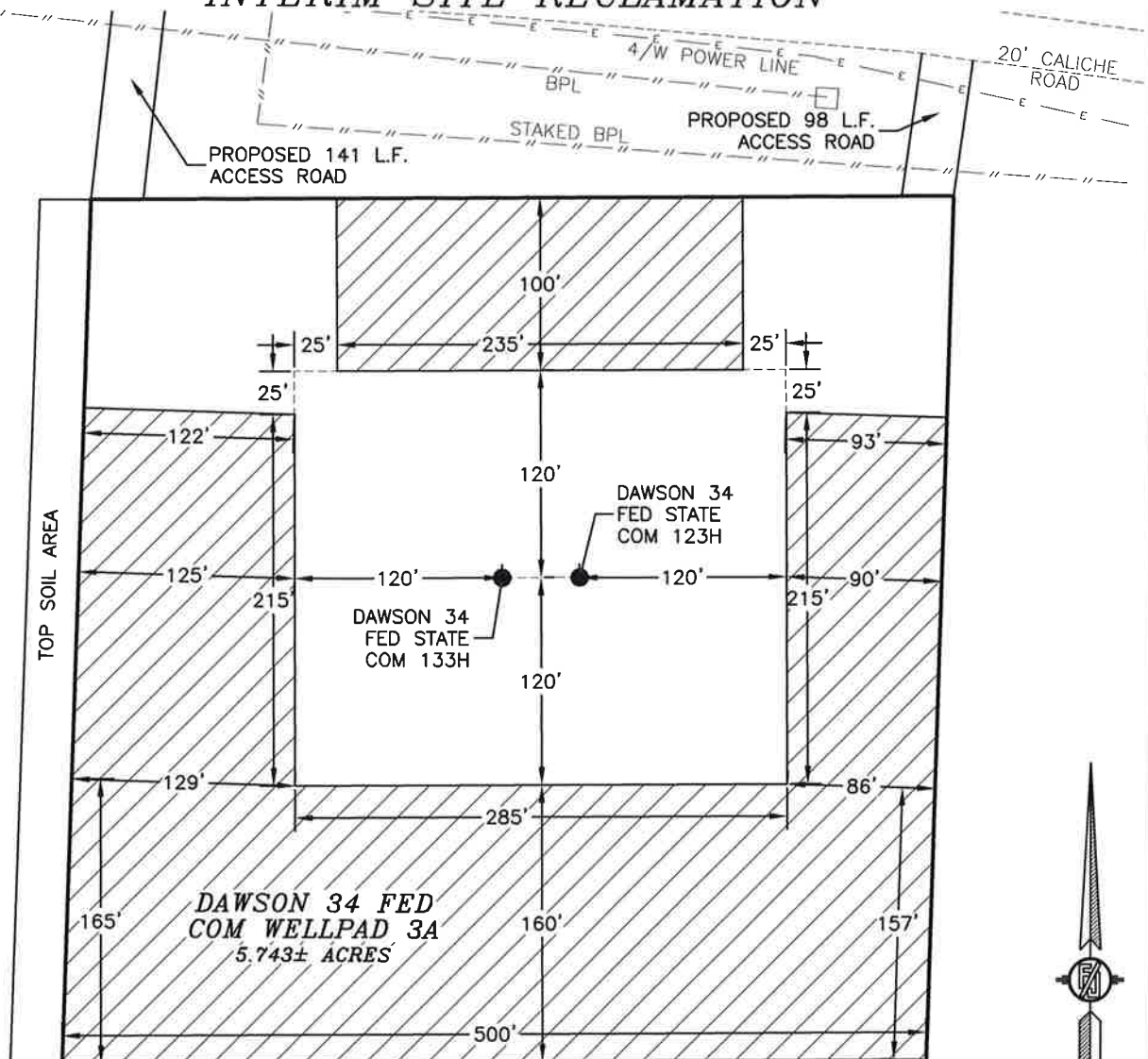
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 133H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 760 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

SURVEY NO. 7984

CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



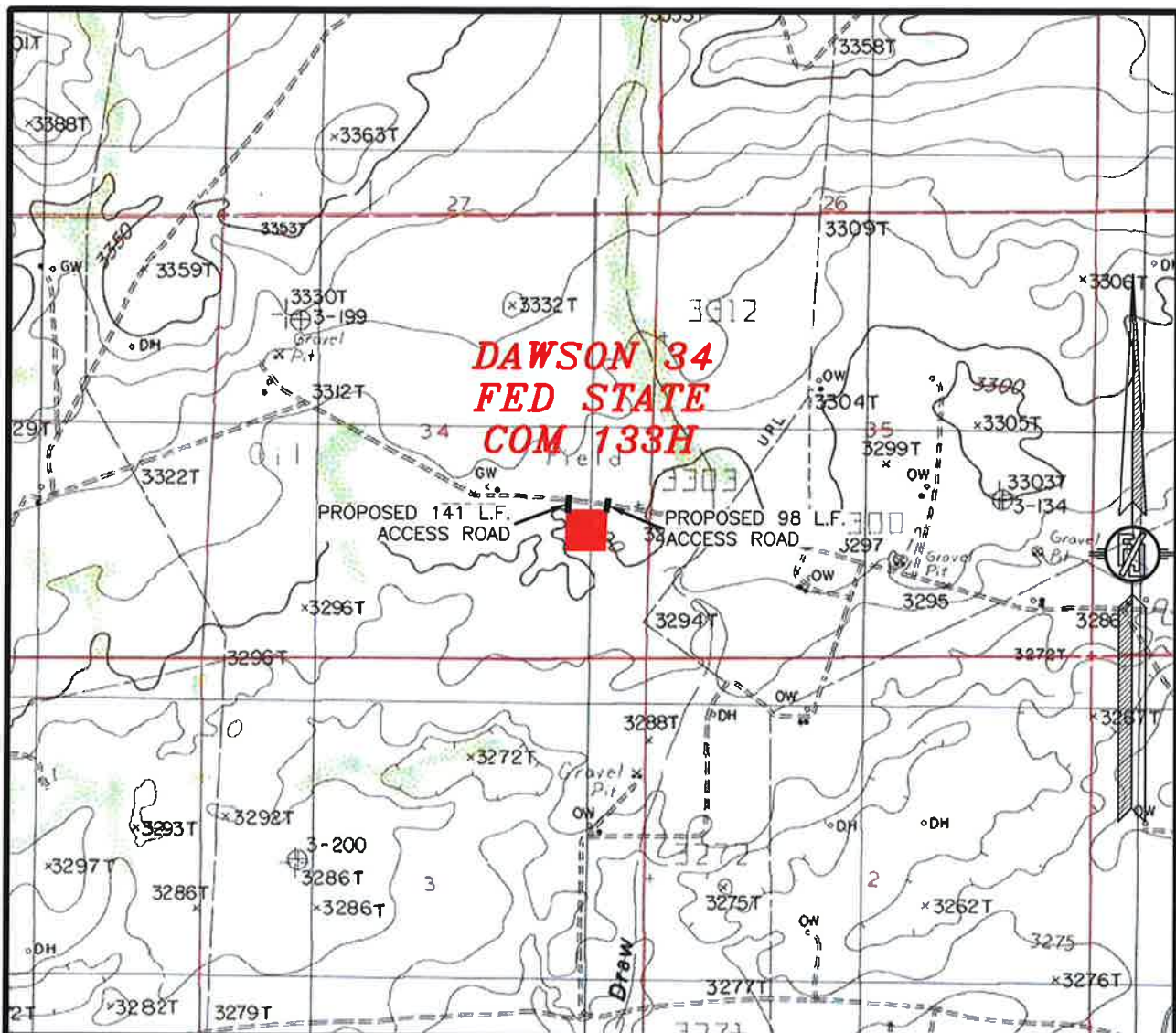
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 133H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 760 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

SURVEY NO. 7984

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



**USGS QUAD MAP:
ANGEL DRAW**

NOT TO SCALE

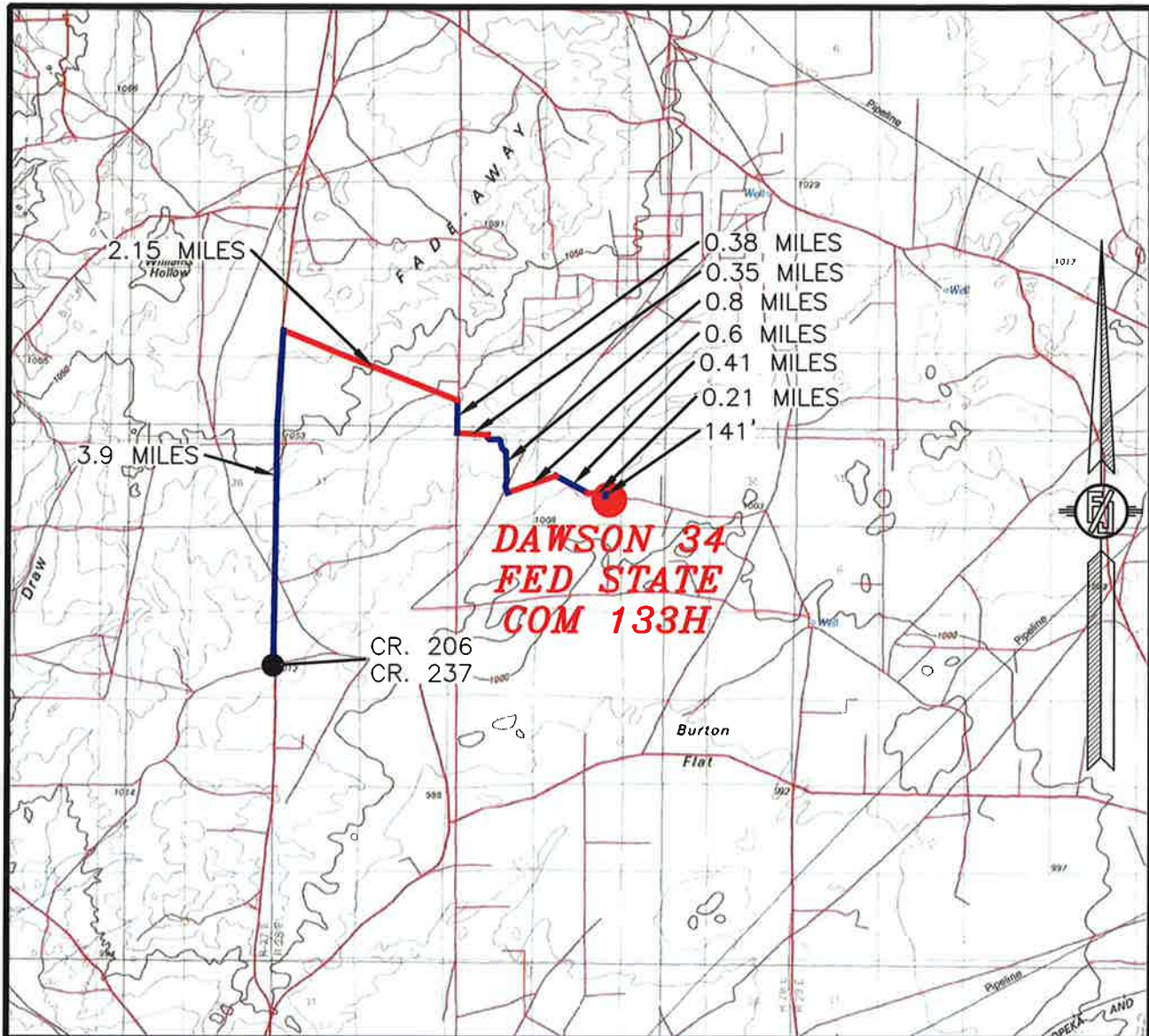
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 133H
 LOCATED 1505 FT. FROM THE SOUTH LINE
 AND 760 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

SURVEY NO. 7984

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.41 MILES, BEND LEFT AND EAST-SOUTHEAST 0.21 MILES TO A ROAD SURVEY AND FOLLOW FLAGS 141' SOUTH TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 133H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 760 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

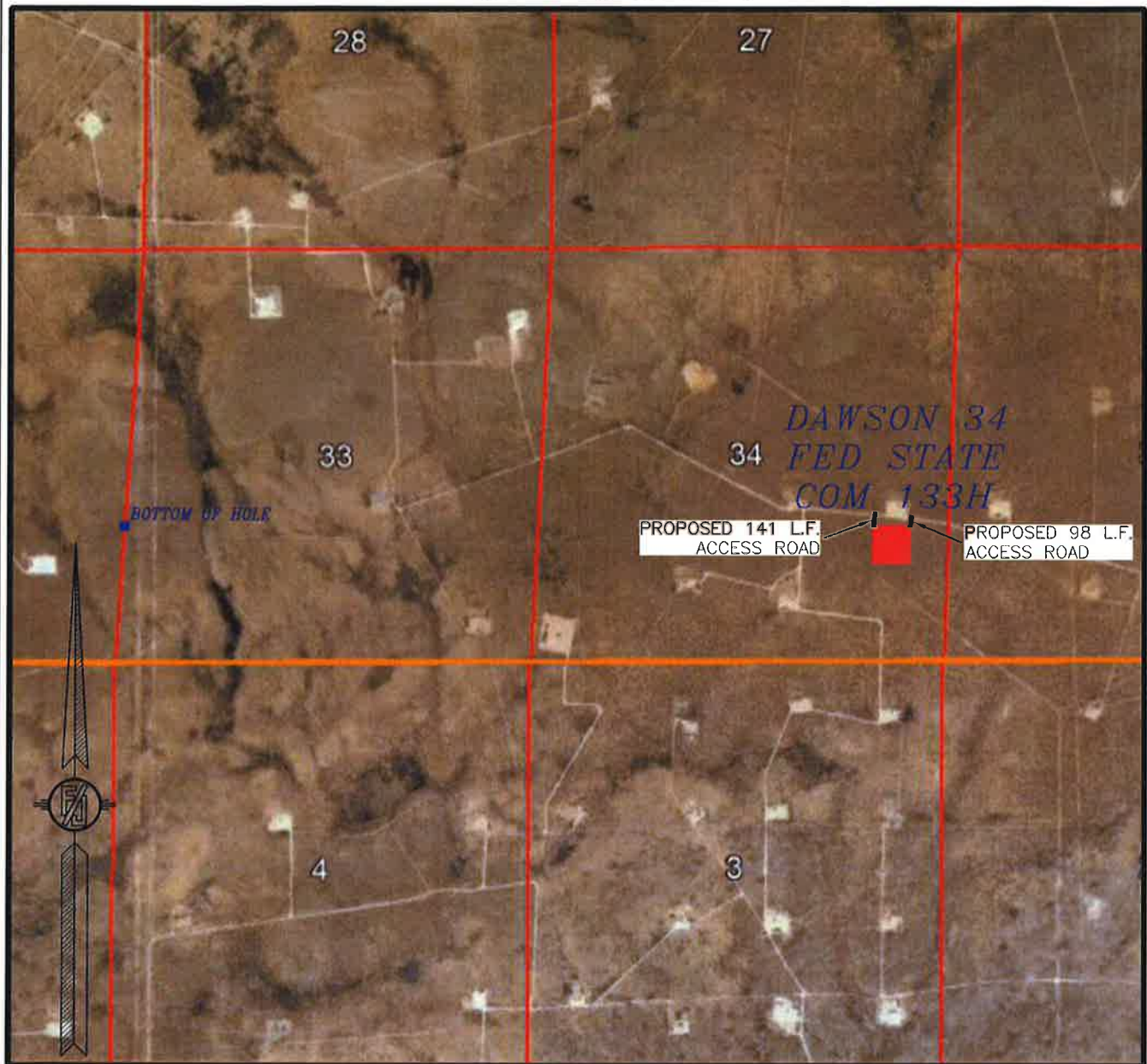
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 7984

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

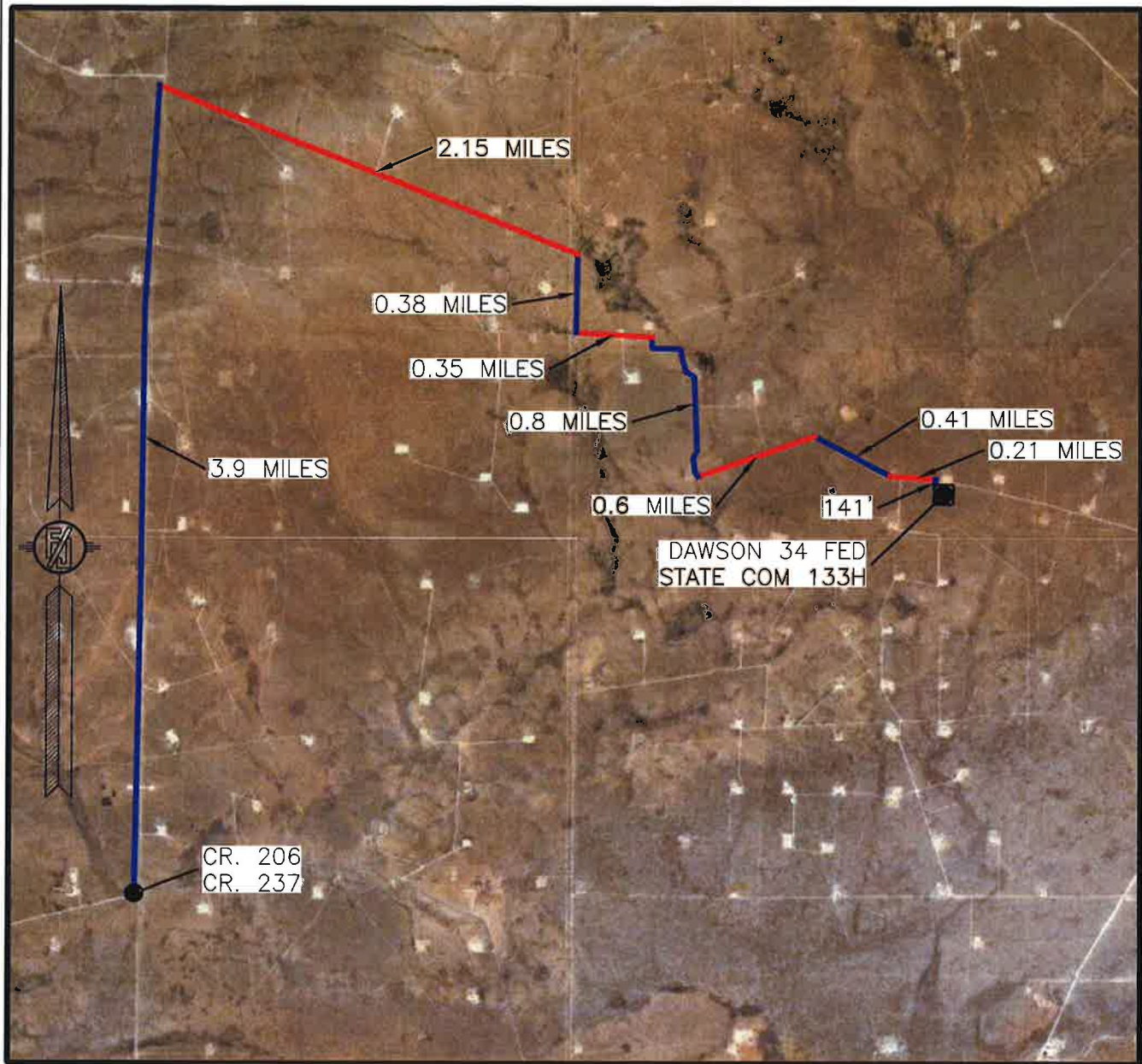
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 133H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 760 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

SURVEY NO. 7984

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 133H
LOCATED 1505 FT. FROM THE SOUTH LINE
AND 760 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

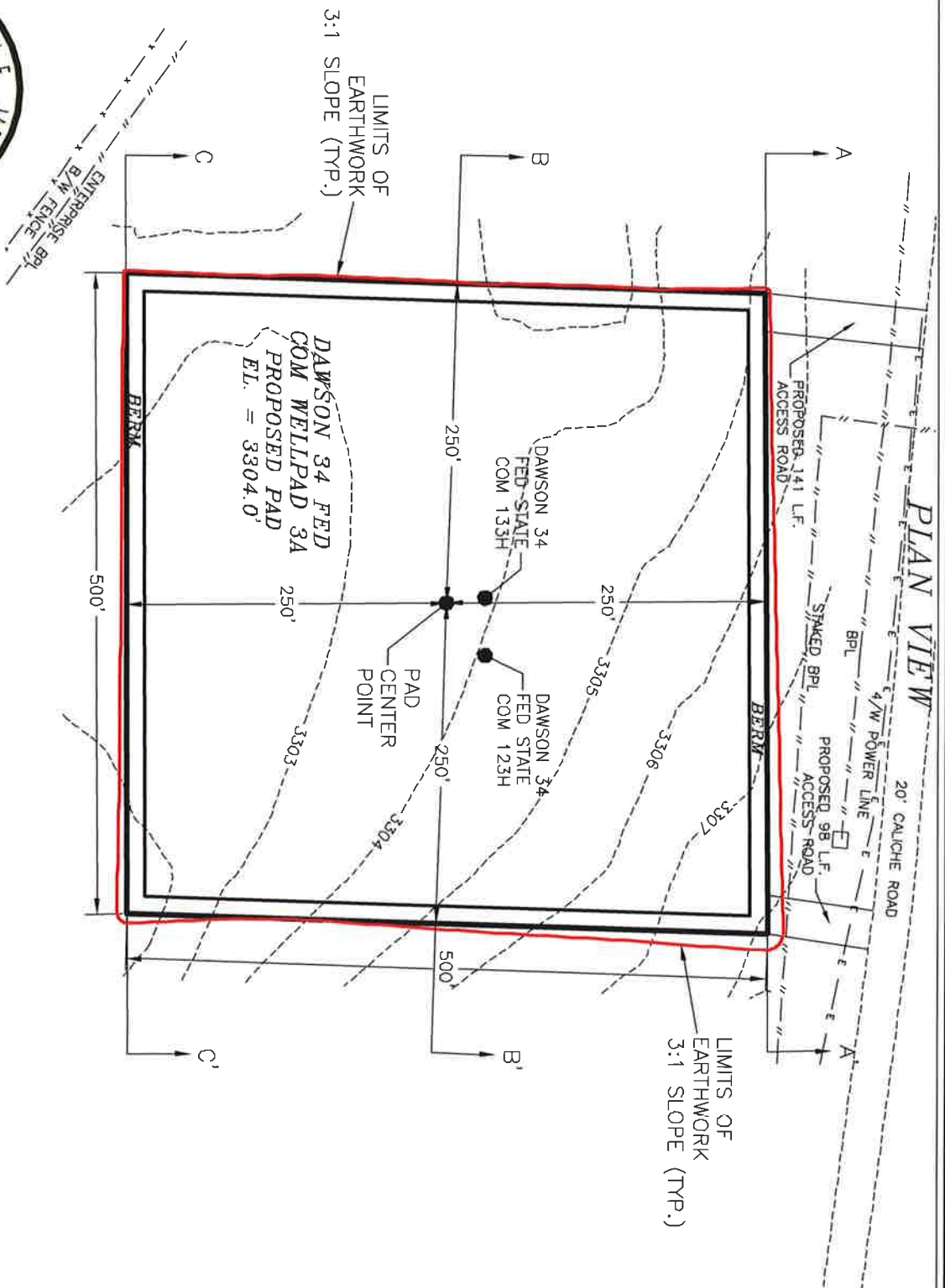
FEBRUARY 19, 2020

SURVEY NO. 7984

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILMON F. JARAYAN, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 1148, AM RESPONSIBLE FOR THIS SURVEY. TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR DAWSON 34 FED STATE COM 133H
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

301 SOUTH CANAL
 (979) 234-3341

IRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SHEET 1-2
 SURVEY NO. 7984

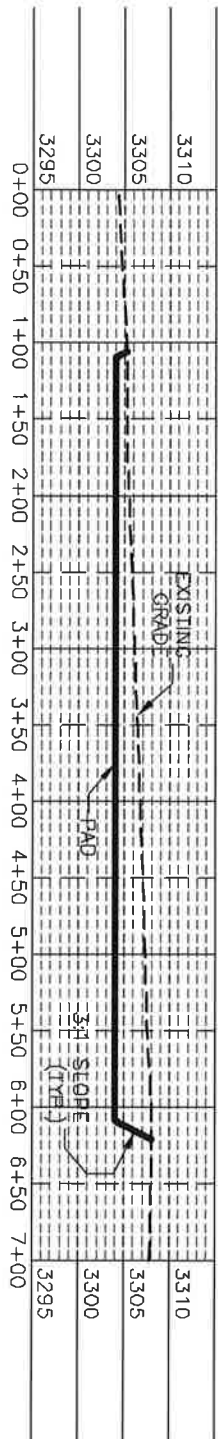
CUT	FILL	NET
5087 CU. YD	4946 CU. YD	141 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

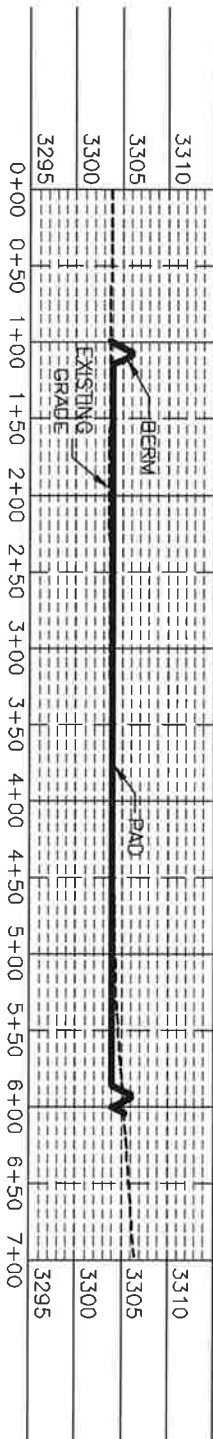


CROSS-SECTIONS

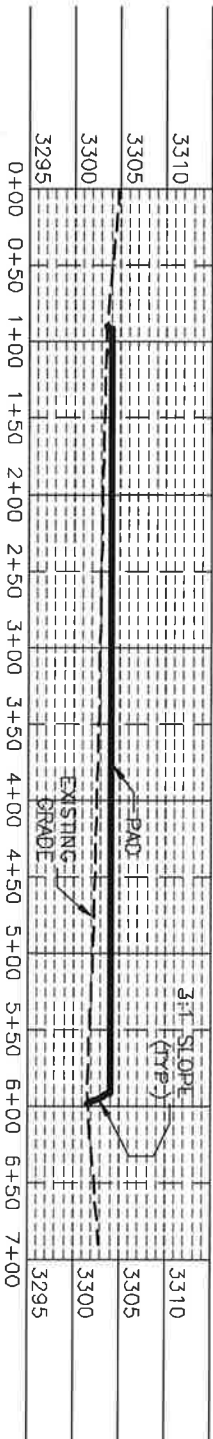
SECTION A-A'



SECTION B-B'



SECTION C-C'



I, FILMON F. JARAYAN, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12291, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEFS, AND THE SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SUCH WORK IN NEW MEXICO.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR DAWSON 34 FED STATE COM 133H
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

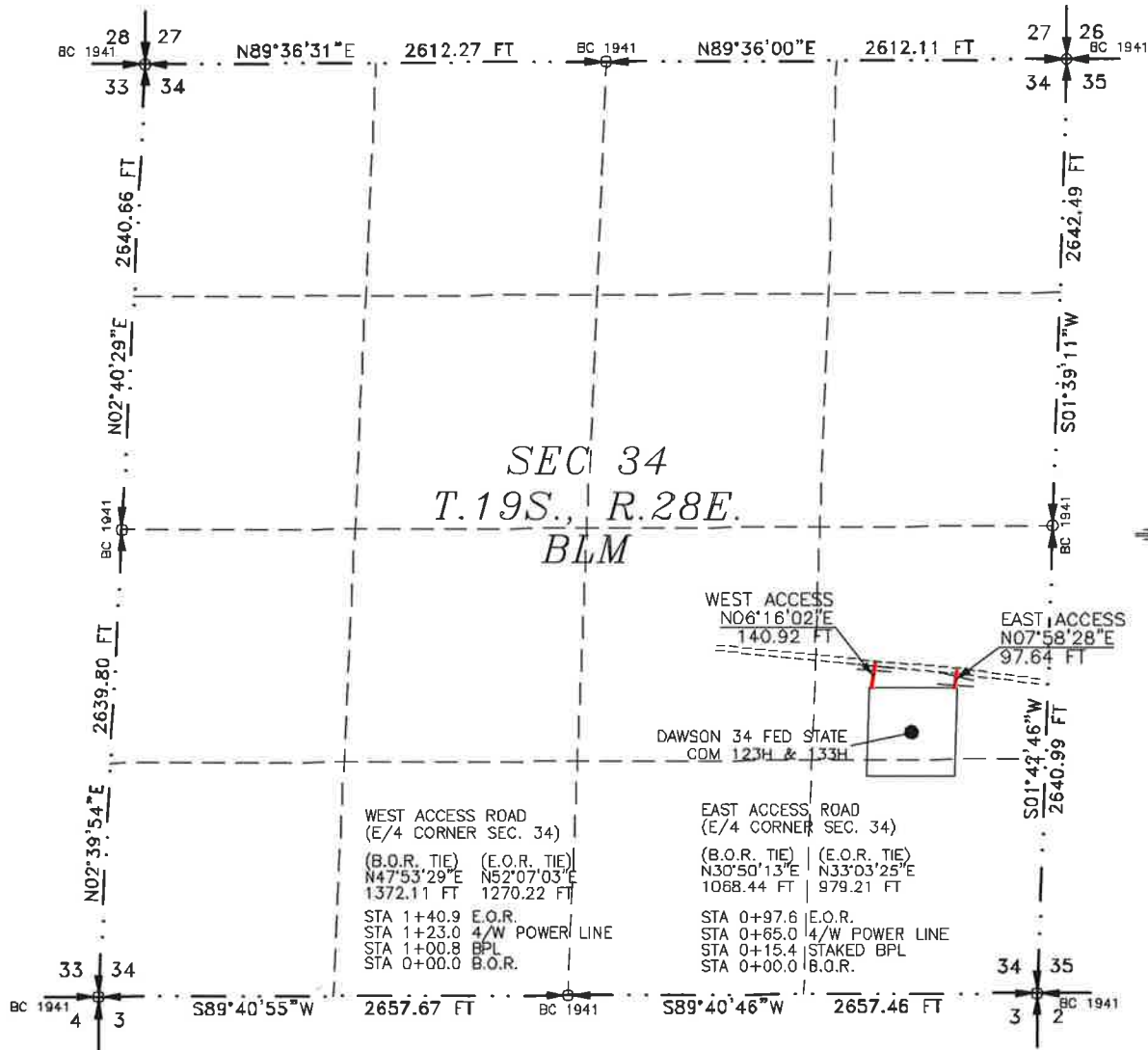
IRON SURVEYING, INC. 301 SOUTH CANAL (975) 234-3341 CARLSBAD, NEW MEXICO

SHEET 2-2 SURVEY NO. 7984

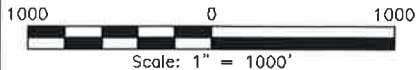
012	60	120	240
SCALE 1" = 120' - 1" = 20' VER			
CUT	FILL	NET	
5087 CU. YD	4946 CU. YD	141 CU. YD (CUT)	
EARTHWORK QUANTITIES ARE ESTIMATED			

ACCESS ROAD PLAT
ACCESS ROAD FOR DAWSON 34 FED STATE COM 123H & 133H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 19, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. 301 SOUTH CANAL, CARLSBAD, NEW MEXICO (575) 234-3341

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 19th DAY OF FEBRUARY 2020

FILMON F. JARAMILLO 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341
SURVEY NO. 7984

ACCESS ROAD PLAT

ACCESS ROAD FOR DAWSON 34 FED STATE COM 123H & 133H

COLGATE OPERATING, LLC CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO FEBRUARY 19, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

WEST ACCESS

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N47°53'29"E, A DISTANCE OF 1372.11 FEET;
THENCE N06°16'02"E A DISTANCE OF 140.92 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N52°07'03"E, A DISTANCE OF 1270.22 FEET;

SAID STRIP OF LAND BEING 140.92 FEET OR 8.54 RODS IN LENGTH, CONTAINING 0.097 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 140.92 L.F. 8.54 RODS 0.097 ACRES

EAST ACCESS

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N30°50'13"E, A DISTANCE OF 1068.44 FEET;
THENCE N07°58'28"E A DISTANCE OF 97.64 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N33°03'25"E, A DISTANCE OF 979.21 FEET;

SAID STRIP OF LAND BEING 97.64 FEET OR 5.92 RODS IN LENGTH, CONTAINING 0.067 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 97.64 L.F. 5.92 RODS 0.067 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 19TH DAY OF FEBRUARY 2020

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 (575) 234-3341

SURVEY NO. 7984

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 Road, 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) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name DAWSON 34 FED COM		⁶ Well Number 134H
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC		⁹ Elevation 3299.9

¹⁰ Surface Location


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	34	19 S	28E		340	SOUTH	560	EAST	EDDY

¹¹ 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
M	33	19 S	28 E		430	SOUTH	10	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>	
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>FEBRUARY 14, 2020</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: _____</p>	

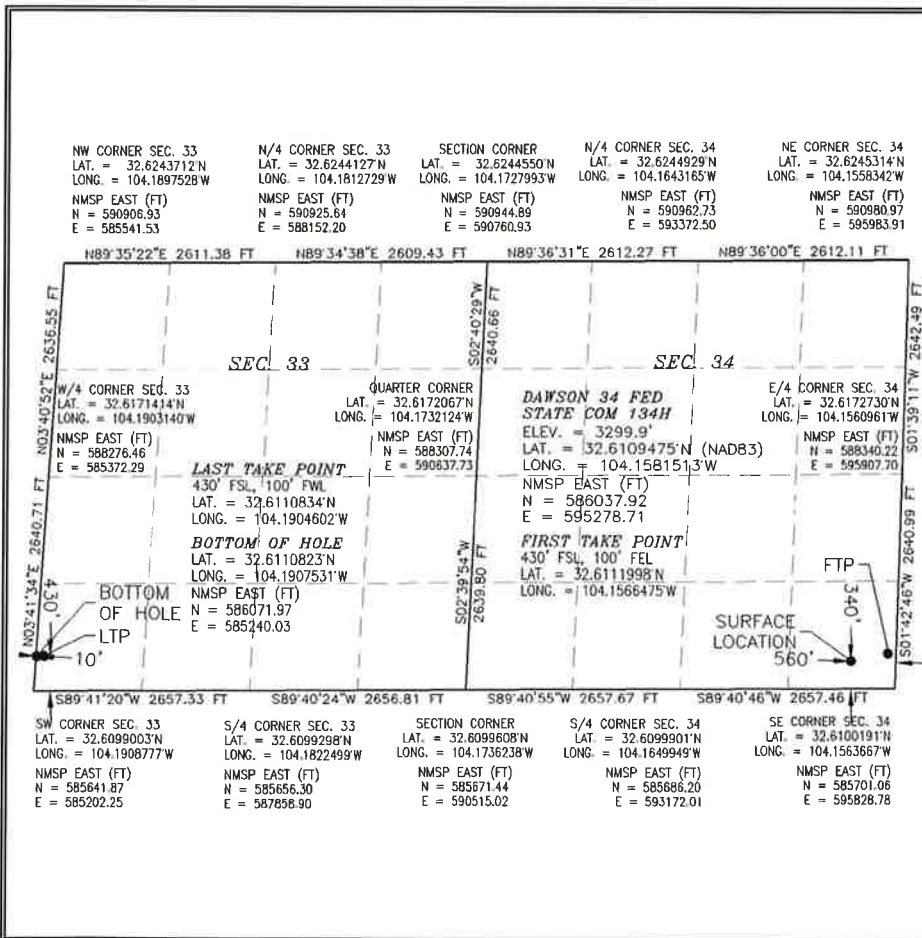


EXHIBIT
4

Intent ☐ As Drilled ☐

API #		
Operator Name: COLGATE OPERATING, LLC	Property Name: DAWSON 34 FED COM	Well Number 134H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL P	Section 34	Township 19S	Range 28E	Lot	Feet 430	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.6111998					Longitude 104.1566475				NAD 83

Last Take Point (LTP)

UL M	Section 33	Township 19S	Range 28E	Lot	Feet 430	From N/S SOUTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6110834					Longitude 104.1904602				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

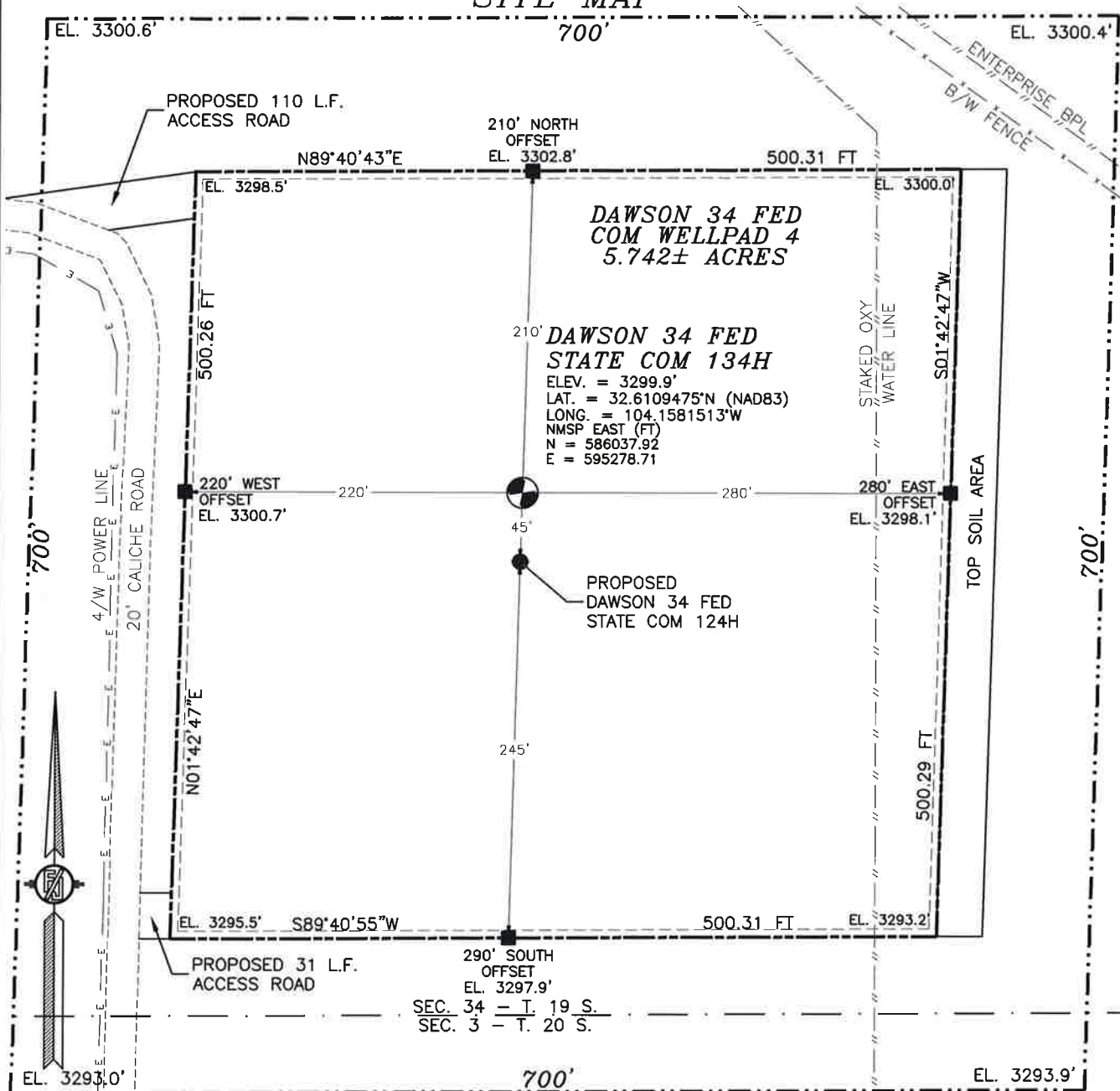
Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.55 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.41 MILES, BEND LEFT AND GO SOUTH 0.25 MILES, TURN LEFT AND GO EAST-SOUTHEAST 0.4 MILES TO ROAD SURVEY AND FOLLOW FLAGS EAST 110' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT THE DIRECTIONS TO THIS LOCATION, AND THIS SURVEY, THAT THE SURVEYOR HAS BEEN CONDUCTED IN ACCORDANCE WITH MY KNOWLEDGE AND BELIEF OF THE SURVEYING STANDARDS AND PRACTICES OF THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO, SURVEYOR

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

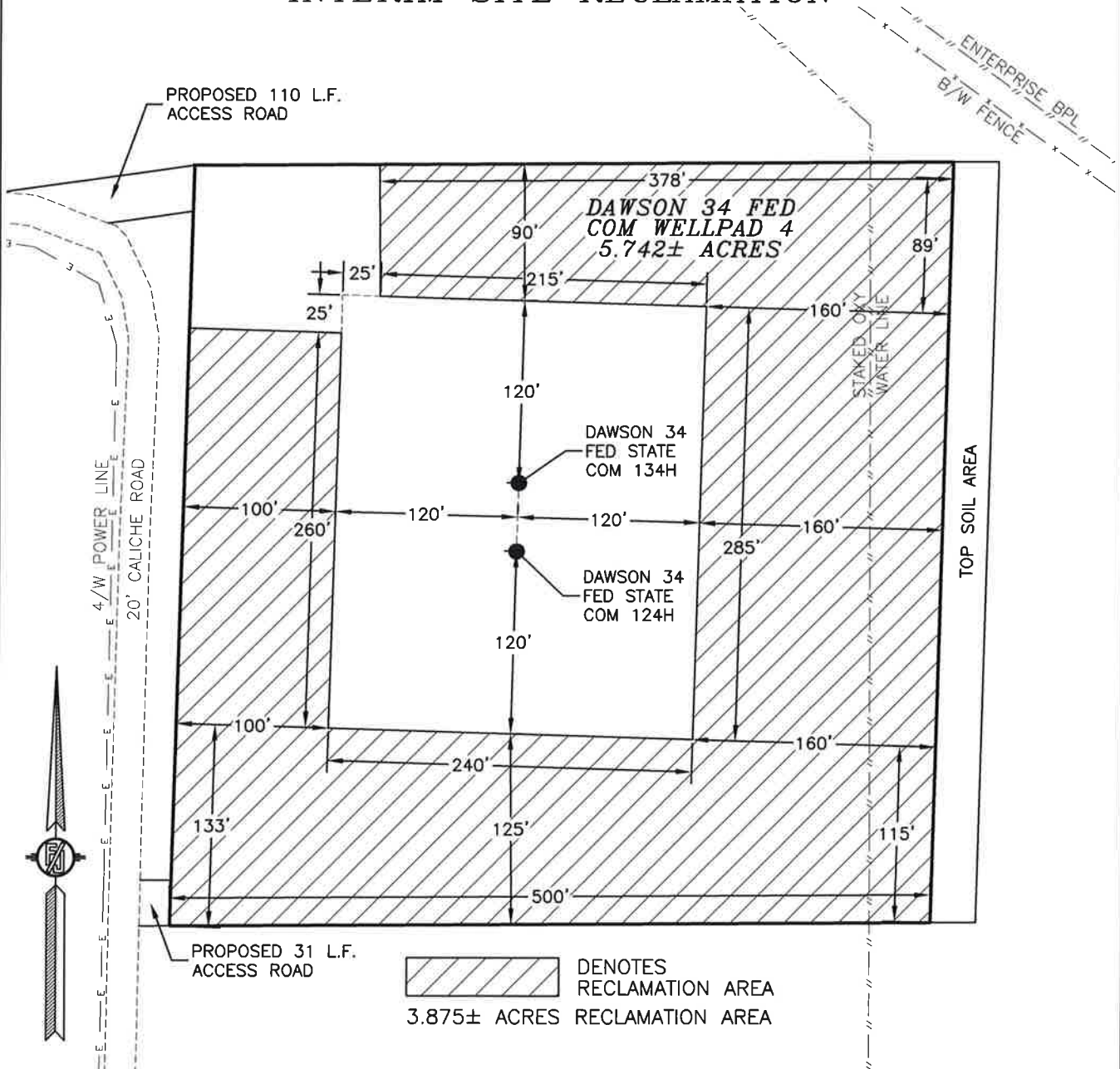
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 134H
LOCATED 340 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7982

CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 INTERIM SITE RECLAMATION



010 50 100 200
 SCALE 1" = 100'

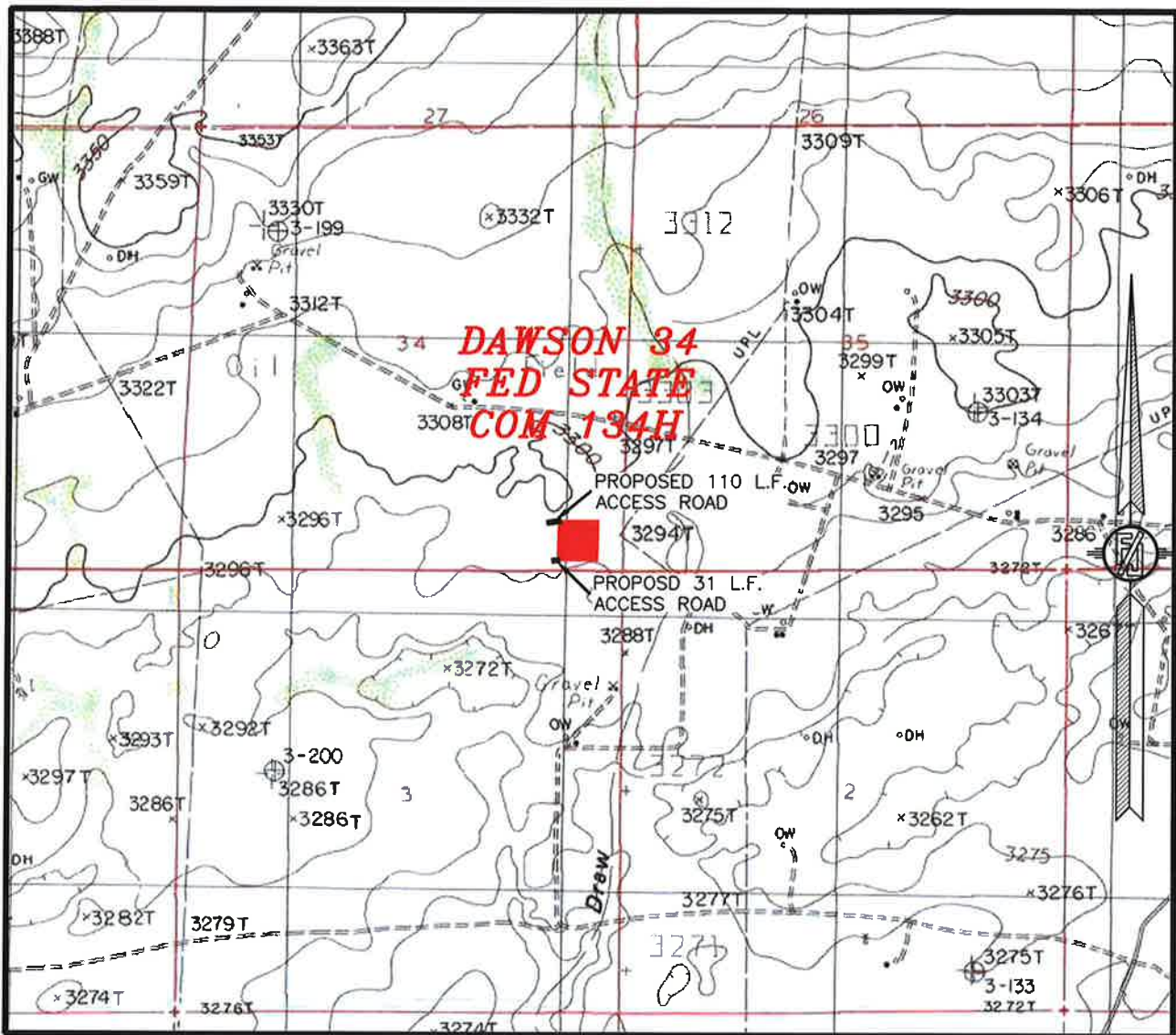
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 134H
 LOCATED 340 FT. FROM THE SOUTH LINE
 AND 560 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7982

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 ANGEL DRAW

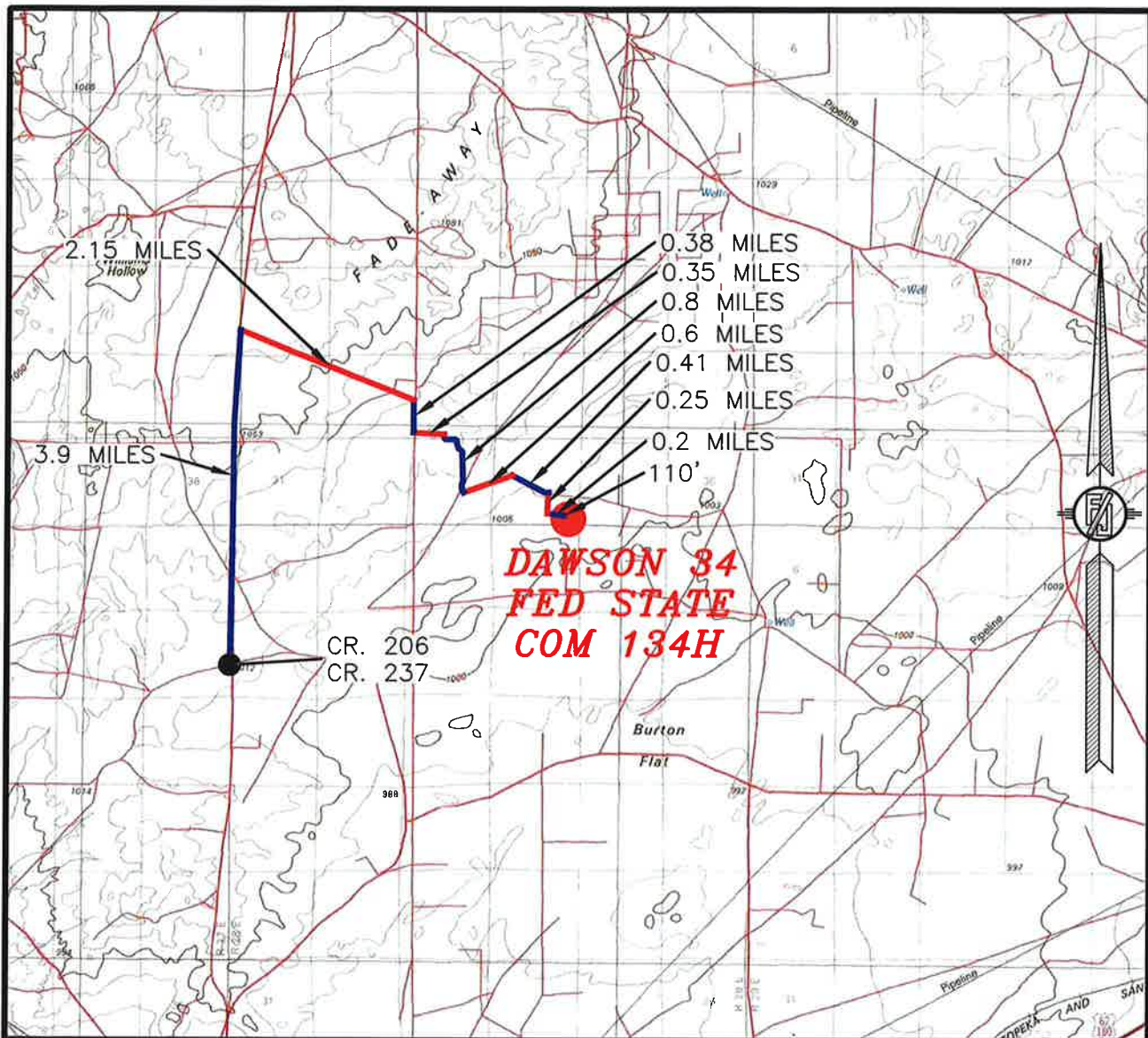
NOT TO SCALE

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 134H
 LOCATED 340 FT. FROM THE SOUTH LINE
 AND 560 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 7982

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.41 MILES, BEND LEFT AND GO SOUTH 0.25 MILES, TURN LEFT AND GO EAST-SOUTHEAST 0.2 MILES TO ROAD SURVEY AND FOLLOW FLAGS EAST 110' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

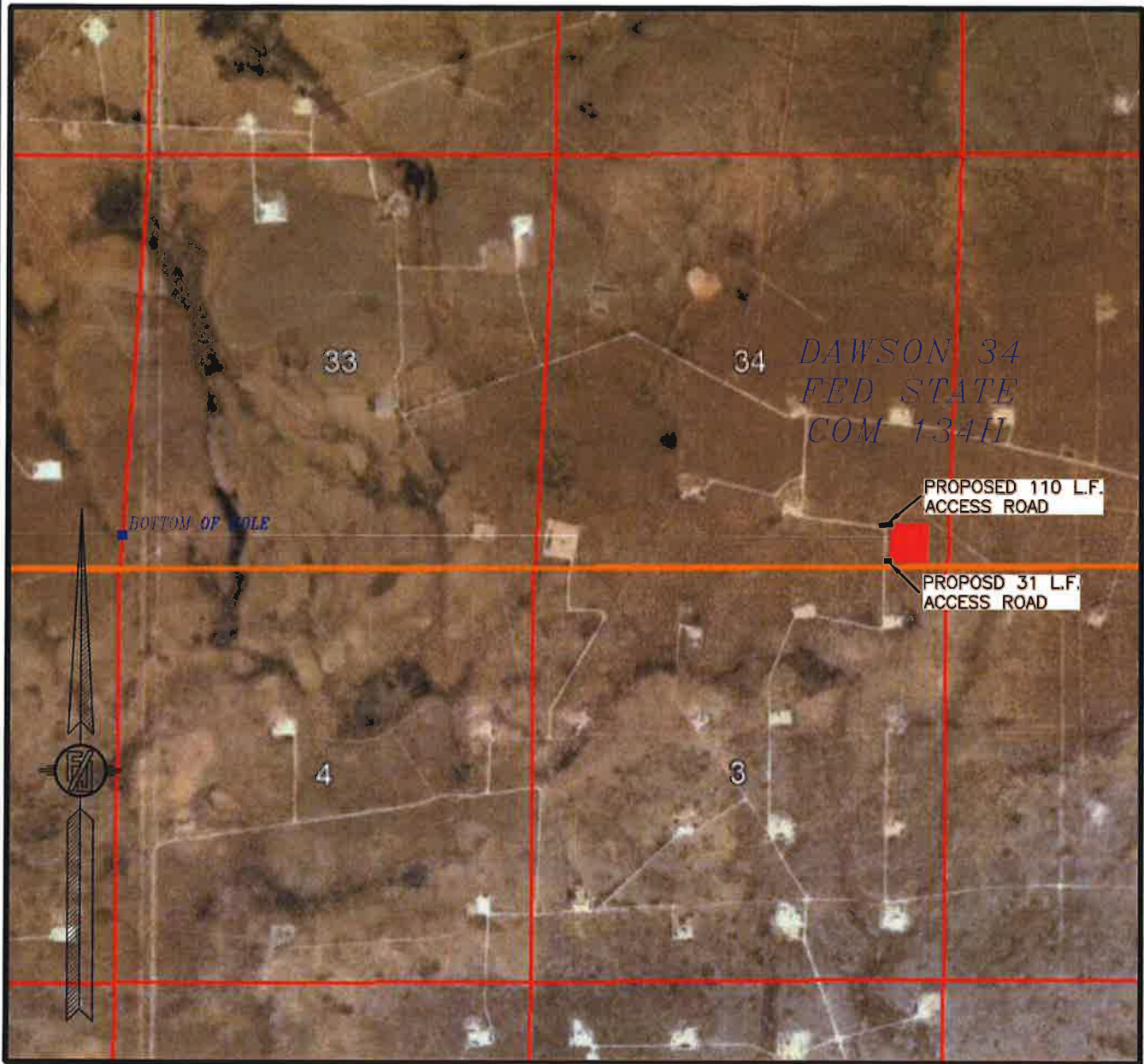
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 134H
LOCATED 340 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7982
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

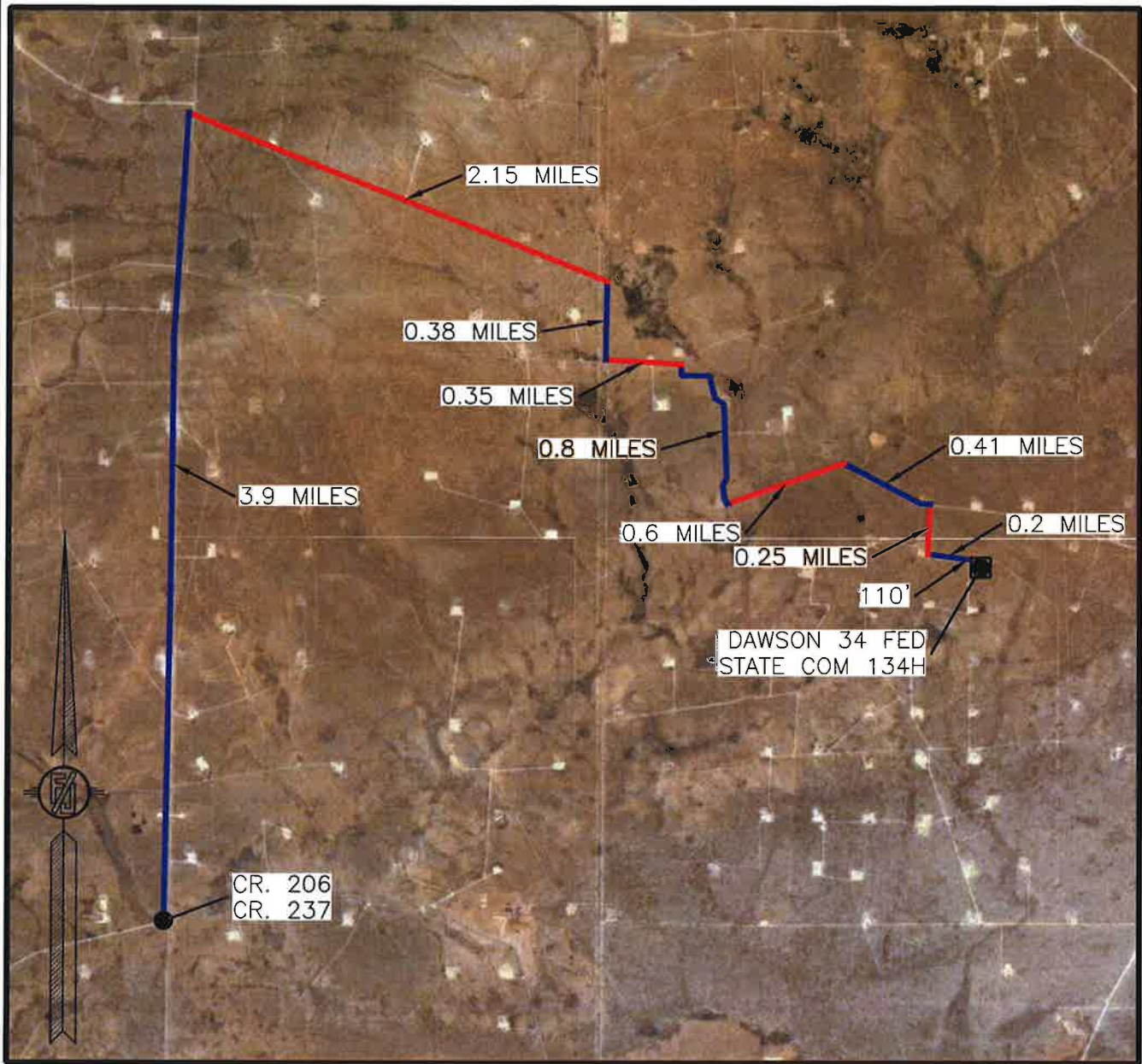
COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 134H
LOCATED 340 FT. FROM THE SOUTH LINE
AND 560 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7982

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

COLGATE OPERATING, LLC
DAWSON 34 FED STATE COM 134H
 LOCATED 340 FT. FROM THE SOUTH LINE
 AND 560 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7982

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILMON F. JARAYAN, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12991, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS MADE IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND SKILL, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SUCH WORK IN NEW MEXICO.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR DAWSON 34 FED STATE COM 134H
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

301 SOUTH CANAL CARLSBAD, NEW MEXICO

SHEET 1-2
 SURVEY NO. 7982

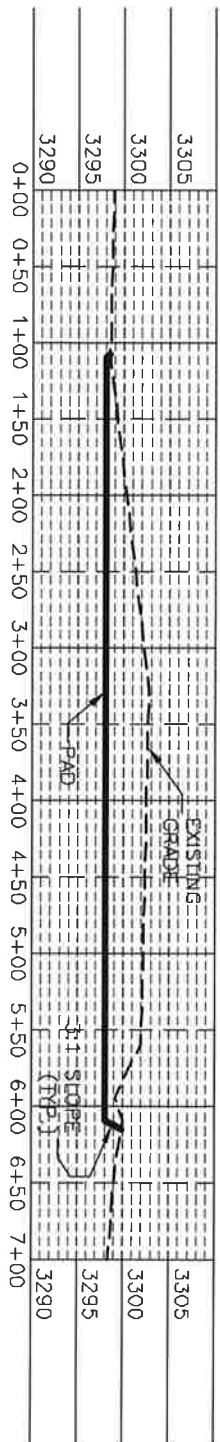
CUT	FILL	NET
9729 CU. YD	6064 CU. YD	3665 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

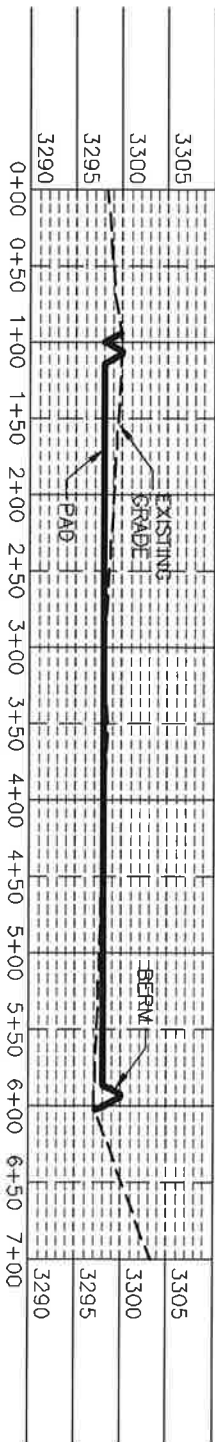


CROSS-SECTIONS

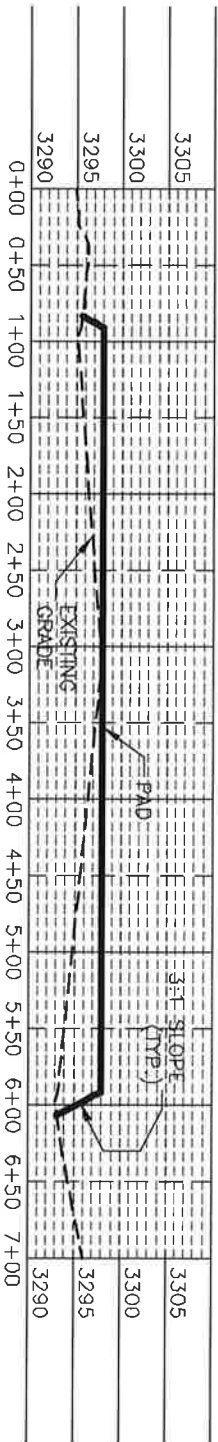
SECTION A-A'



SECTION B-B'



SECTION C-C'



I, FILMON F. JARAYAN, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12291, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND SKILL, AND I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE SURVEY. THE SURVEY STANDARDS FOR THIS SURVEY ARE THE STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
 PAD GRADING AND CROSS SECTIONS
 FOR DAWSON 34 FED STATE COM 134H
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
9729 CU. YD	6064 CU. YD	3665 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

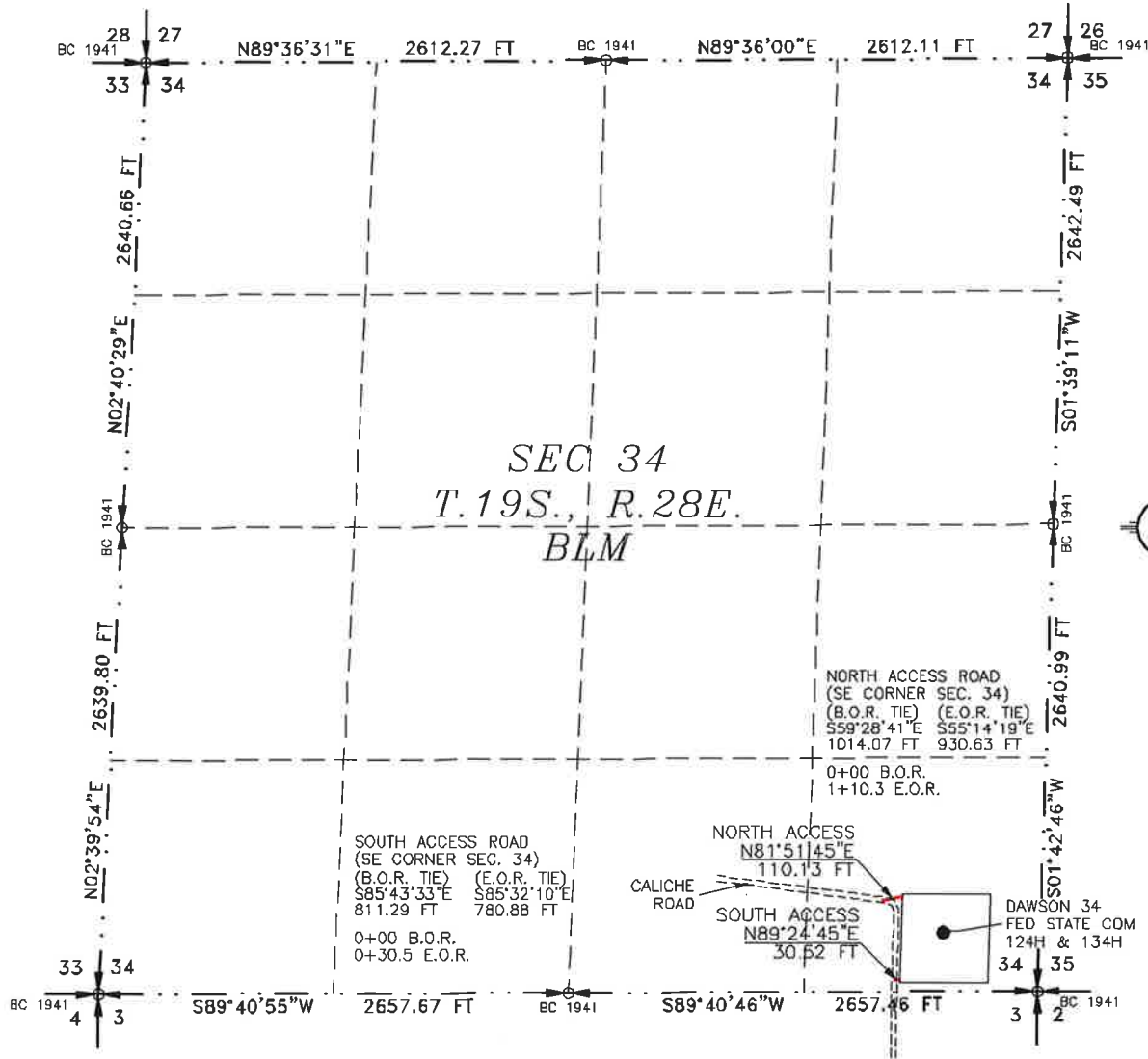
012 60 120 240
 SCALE 1" = 120' - 1" = 20' VER

FILMON F. JARAYAN, REGISTERED PROFESSIONAL SURVEYOR
 FEBRUARY 14, 2020
 301 SOUTH CANAL
 (575) 234-3341
 CARLSBAD, NEW MEXICO

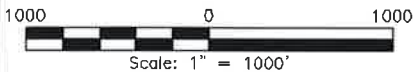
SHEET 2-2
 SURVEY NO. 7982

ACCESS ROAD PLAT
ACCESS ROAD FOR DAWSON 34 FED STATE COM 124H & 134H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

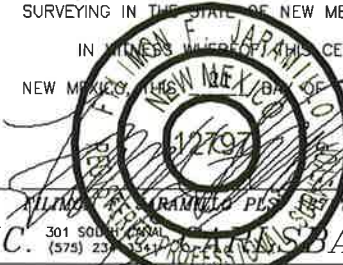
MADRON SURVEYING, INC.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 14TH DAY OF FEBRUARY 2020



MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone: (575) 234-3341

SURVEY NO. 7982

ACCESS ROAD PLAT
ACCESS ROAD FOR DAWSON 34 FED STATE COM 124H & 134H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

NORTH ACCESS

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S59°28'41"E, A DISTANCE OF 1014.07 FEET;
THENCE N81°51'45"E A DISTANCE OF 110.13 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S55°14'19"E, A DISTANCE OF 930.63 FEET;

SAID STRIP OF LAND BEING 110.13 FEET OR 6.67 RODS IN LENGTH, CONTAINING 0.076 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 110.13 L.F. 6.67 RODS 0.076 ACRES

SOUTH ACCESS

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S85°43'33"E, A DISTANCE OF 811.29 FEET;
THENCE N89°24'45"E A DISTANCE OF 30.52 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S85°32'10"E, A DISTANCE OF 780.88 FEET;

SAID STRIP OF LAND BEING 30.52 FEET OR 1.85 RODS IN LENGTH, CONTAINING 0.021 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 30.52 L.F. 1.85 RODS 0.021 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14TH DAY OF FEBRUARY 2020

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7982

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC.
301 SOUTH CANAL
(575) 234-3341
CARLSBAD, NEW MEXICO

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 Road, 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) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name SHAMROCK 34 FED STATE COM	⁶ Well Number 121H
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁹ Elevation 3317.7

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	19 S	28 E		700	NORTH	330	WEST	EDDY

¹¹ 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	33	19 S	28 E		990	NORTH	10	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸ 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.

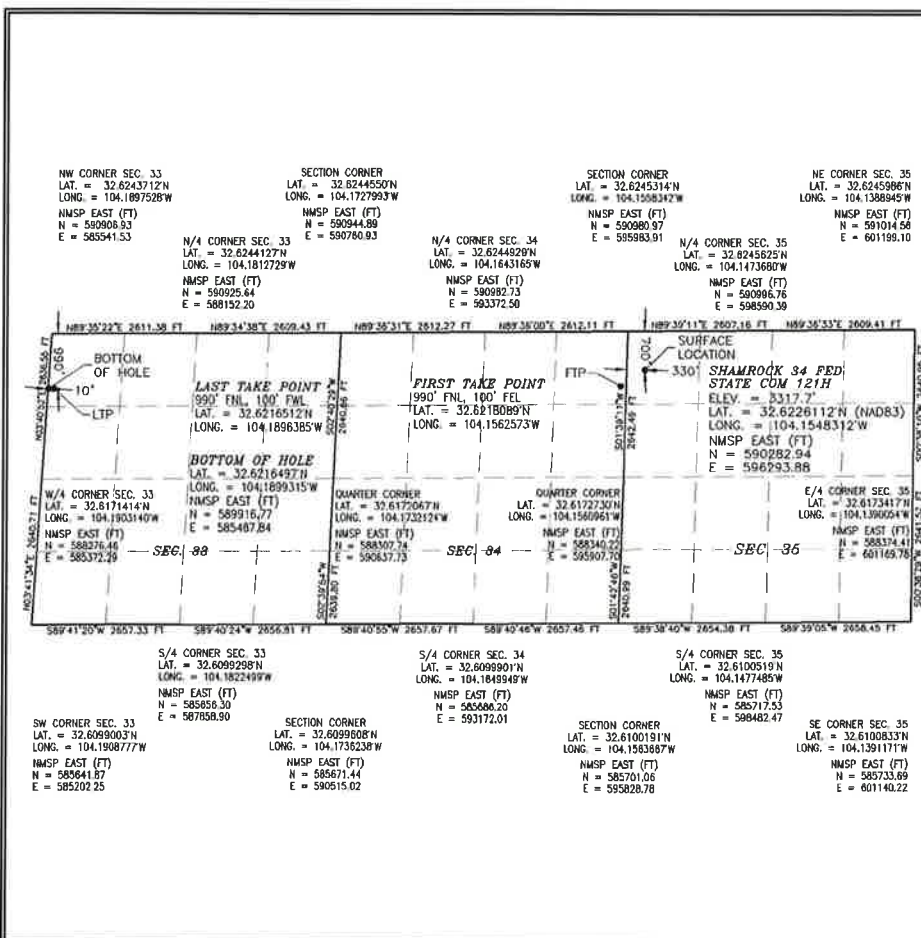
FEBRUARY 14, 2020

Date of Survey _____

Signature and seal of professional surveyor: _____

Certificate Number: _____

PROFESSIONAL SURVEYOR NO. 7987



EXHIBIT

5

Intent ☐ As Drilled ☐

API #		
Operator Name: COLGATE OPERATING, LLC	Property Name: SHAMROCK 34 FED STATE COM	Well Number 121H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL A	Section 34	Township 19S	Range 28E	Lot	Feet 990	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6218089					Longitude 104.1562573				NAD 83

Last Take Point (LTP)

UL D	Section 33	Township 19S	Range 28E	Lot	Feet 990	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6216512					Longitude 104.1896385				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

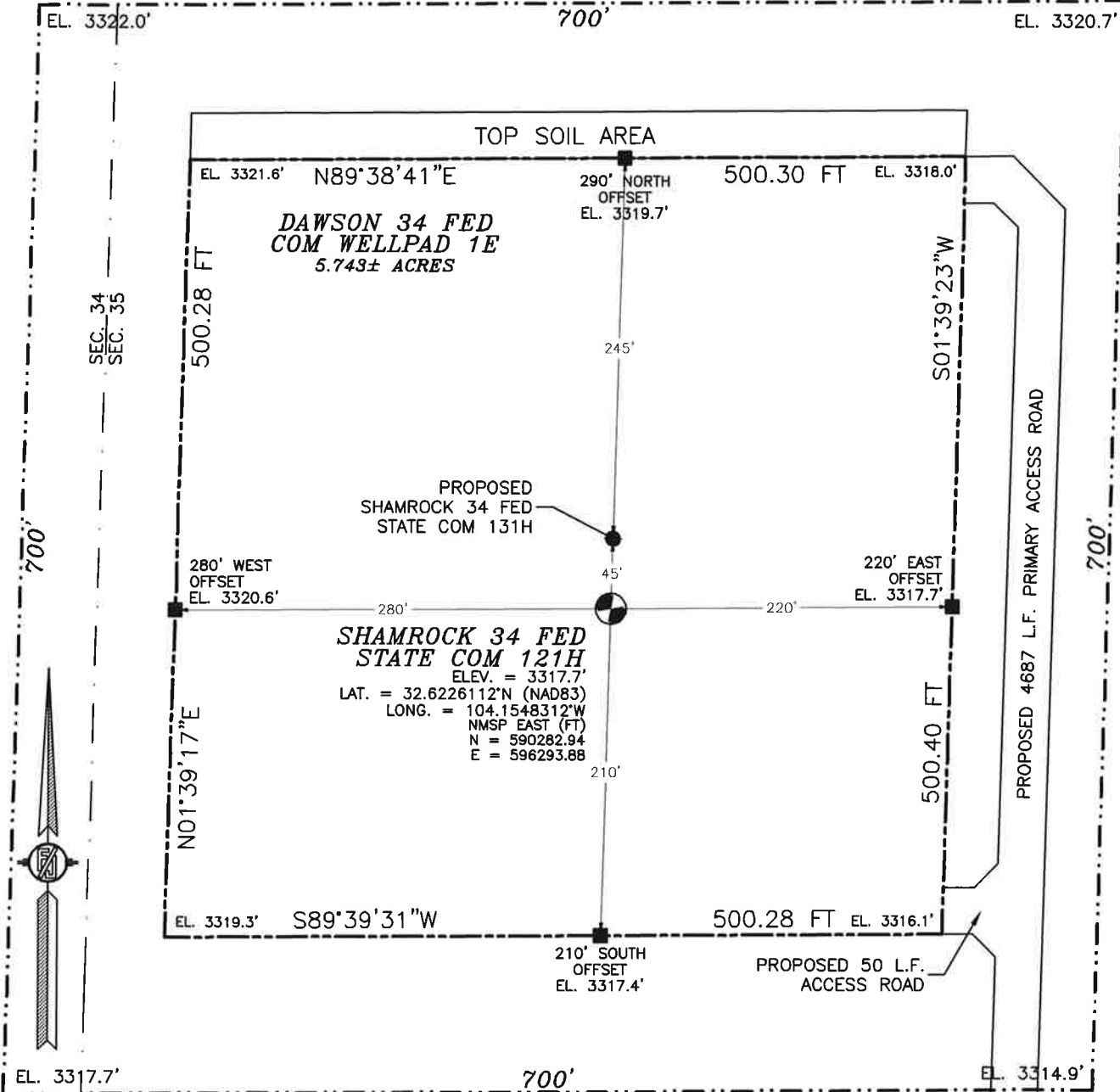
Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



SCALE 1" = 100'

DIRECTIONS TO LOCATION
FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO
SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO
EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND
GO WEST 0.6 MILES, TURN RIGHT AND GO WEST 0.45 MILES, BEND LEFT
AND GO EAST-SOUTHWEST 0.25 MILES TO NORTH 0.4 MILES, TURN RIGHT TO A
ROAD SURVEY AND FOLLOW TO THE WEST ON CR. 605', THEN NORTHWEST
339', THEN NORTH 135', THEN WEST 60' TO THE SUREA ROAD CORNER FOR THIS
LOCATION.

I, FILMON F. BRADILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THIS SURVEY, THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE MINIMUM KNOWLEDGE AND SKILL REQUIRED BY THE NEW MEXICO SURVEYING STANDARDS FOR SURVEYS IN NEW MEXICO.

COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 121H
 LOCATED 700 FT. FROM THE NORTH LINE
 AND 330 FT. FROM THE WEST LINE OF
 SECTION 35, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

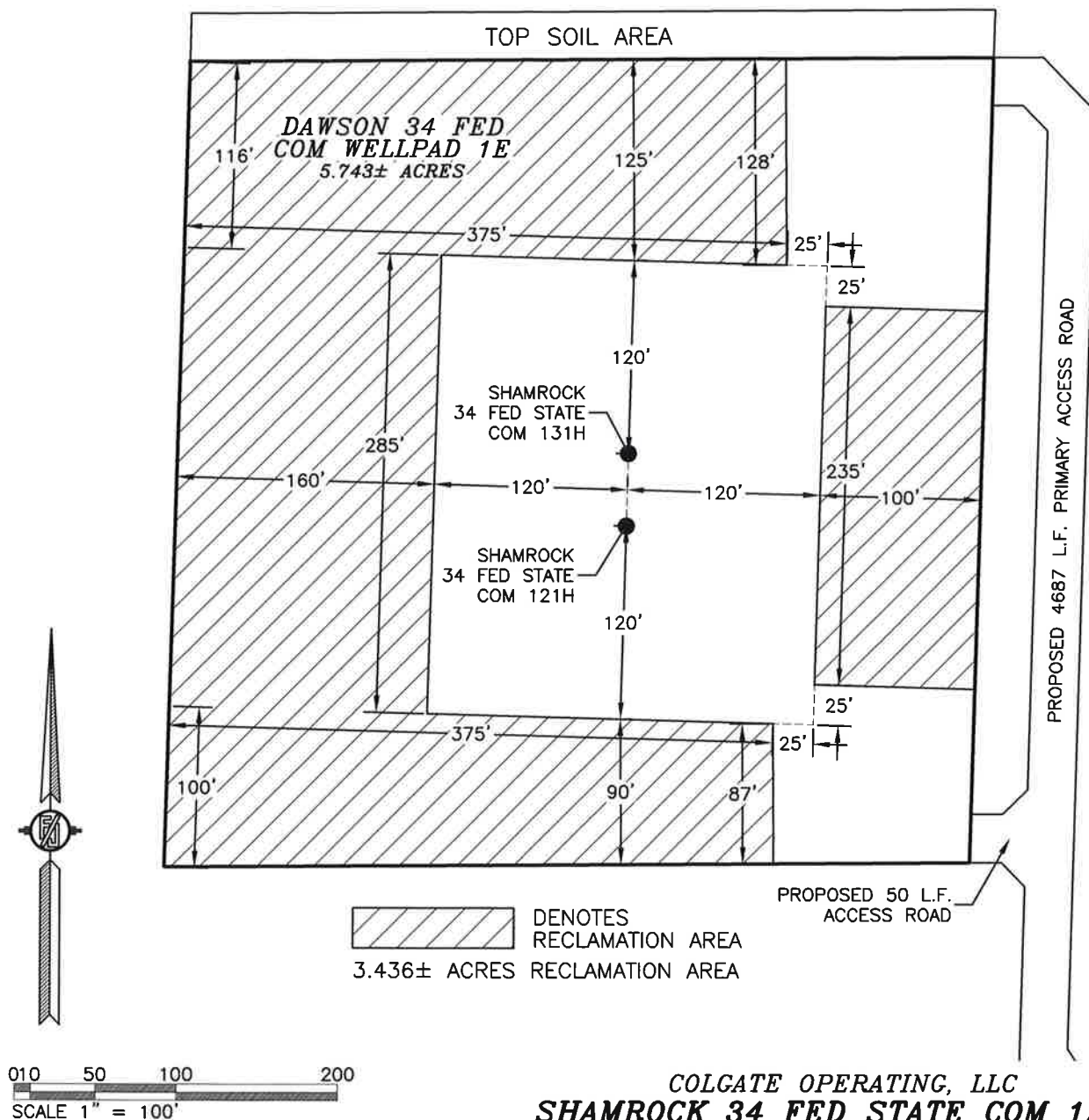
SURVEY NO. 7987

~~MADRONA PROFESSIONAL FIDELITY, INC.~~

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



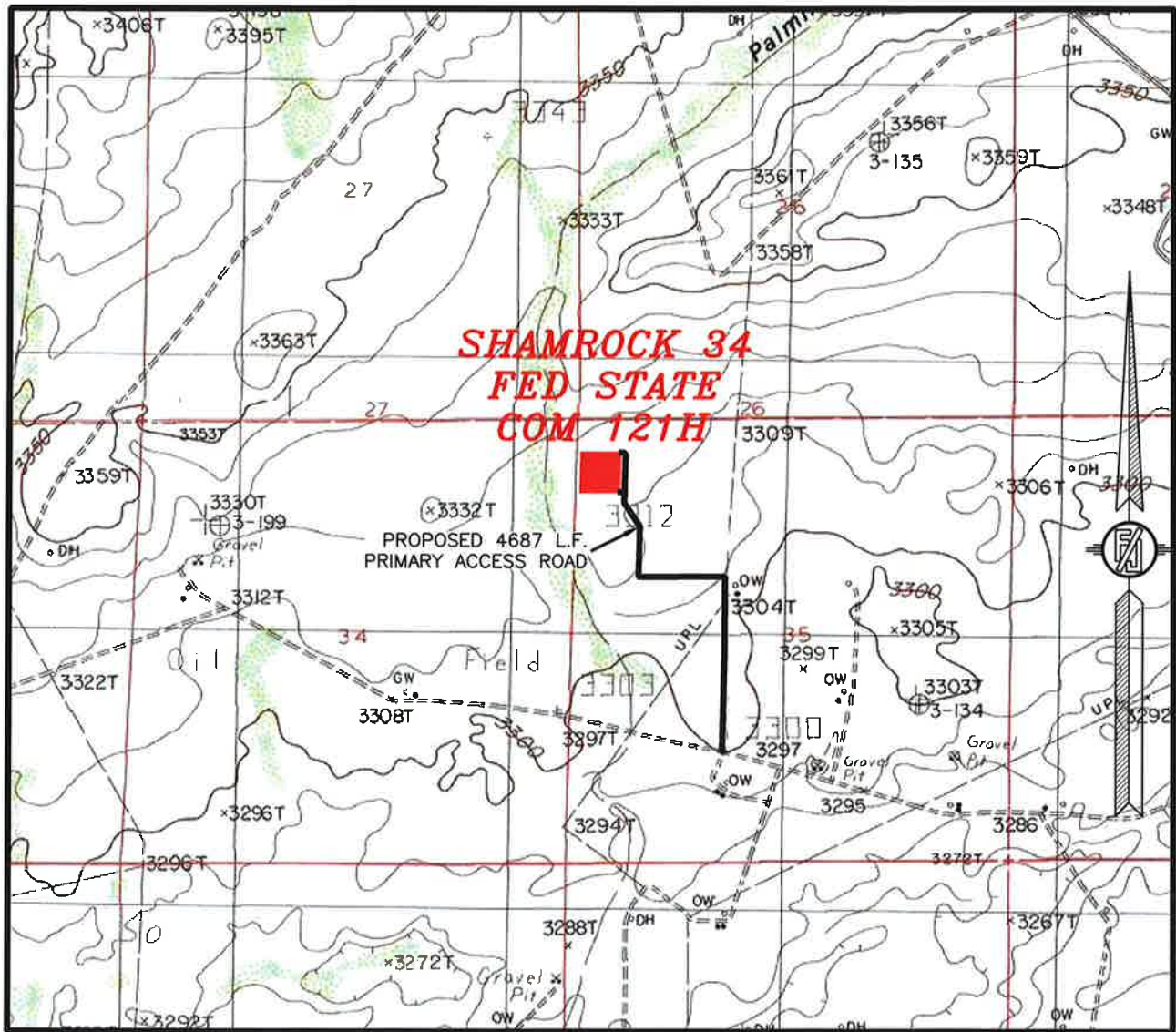
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 121H
LOCATED 700 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7987

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ANGEL DRAW

NOT TO SCALE

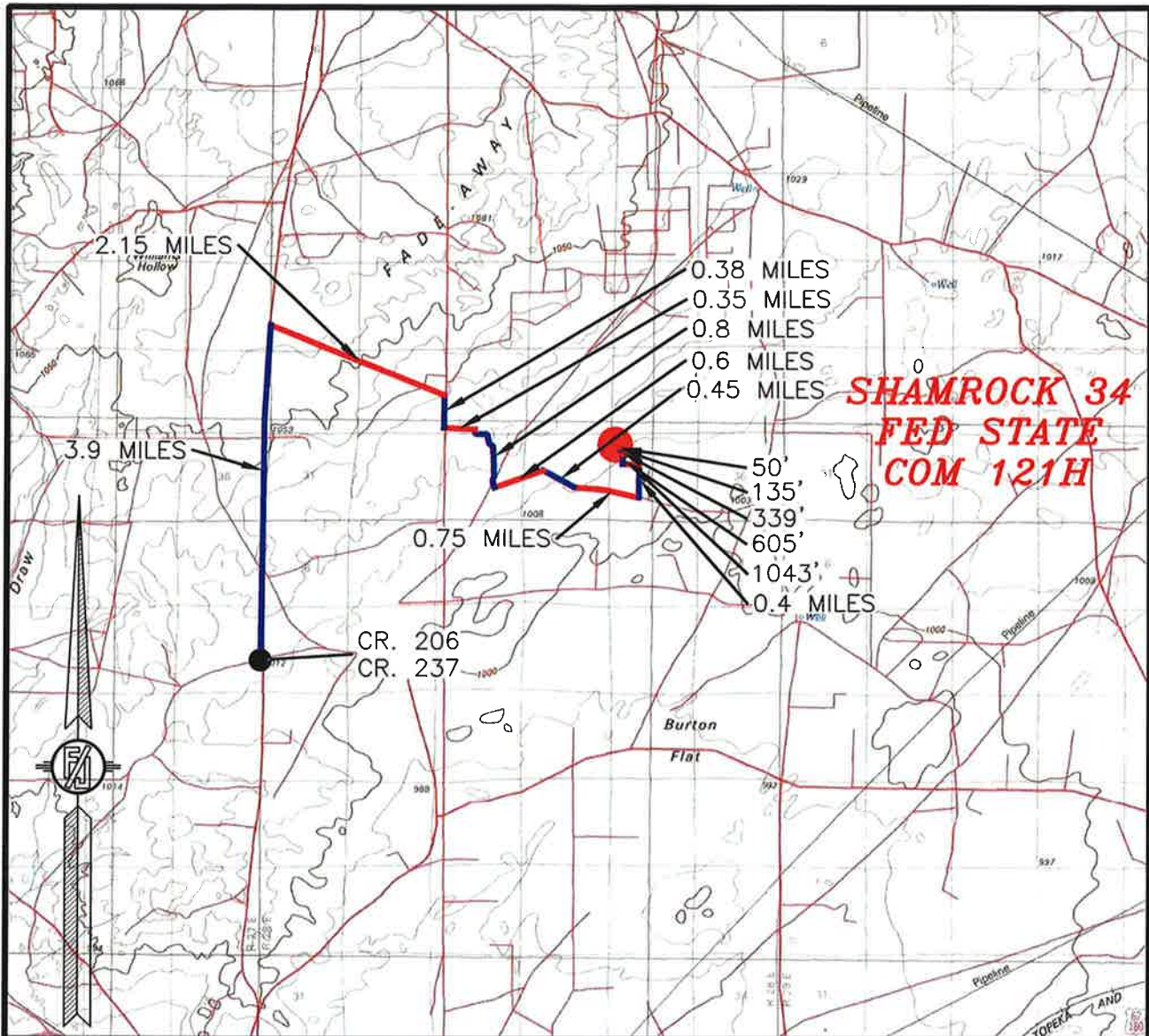
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 121H
LOCATED 700 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7987
CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, BEND RIGHT AND GO SOUTHEAST 0.45 MILES, BEND LEFT AND GO EAST-SOUTHEAST 0.75 MILES, TURN LEFT AND GO NORTH 0.4 MILES TO A ROAD SURVEY AND FOLLOW FLAGS WEST 1043', THEN NORTH 605', THEN NORTHWEST 339', THEN NORTH 135', THEN WEST 50' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 121H
LOCATED 700 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

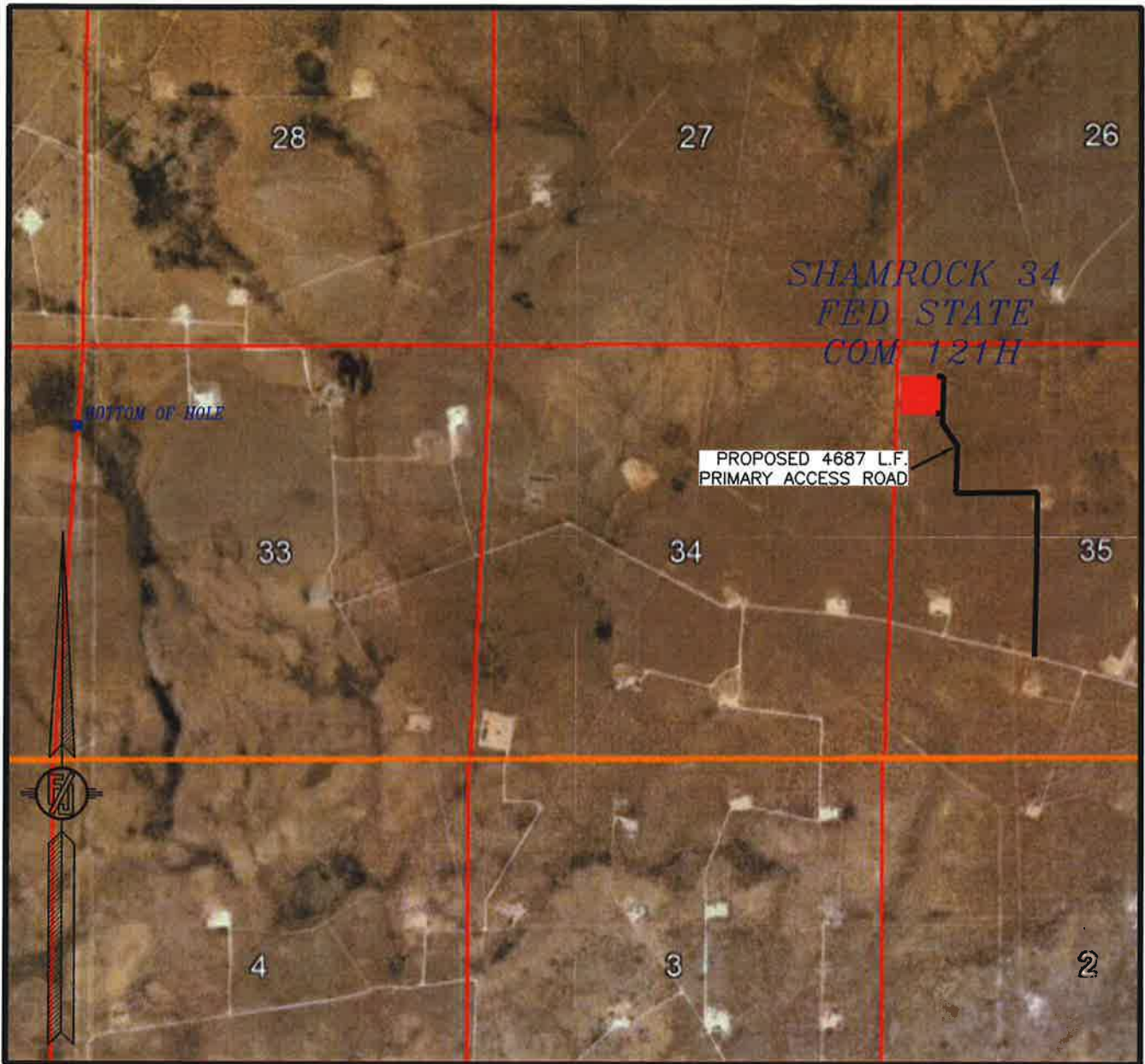
FEBRUARY 14, 2020

SURVEY NO. 7987

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 121H
LOCATED 700 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7987

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILIPINO MARABALLA, A R.N.E. MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT I HAVE PREPARED AND AM RESPONSIBLE FOR THIS SURVEY. I HAVE BEEN AIDED BY THE FOLLOWING: JUAN BELLO, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE ENERGY LLC
PAD GRADING AND CROSS SECTIONS
FOR SHAMROCK 34 FED STATE COM 121H
SECTION 36, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

CUT	FILL	NET
4001 CU. YD	6474 CU. YD	2473 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

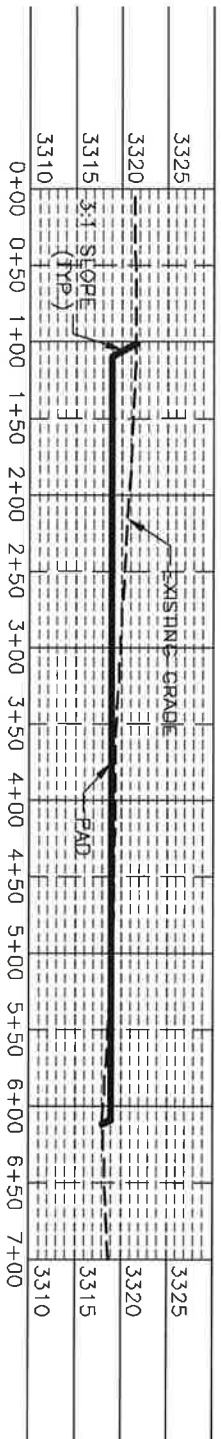


MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

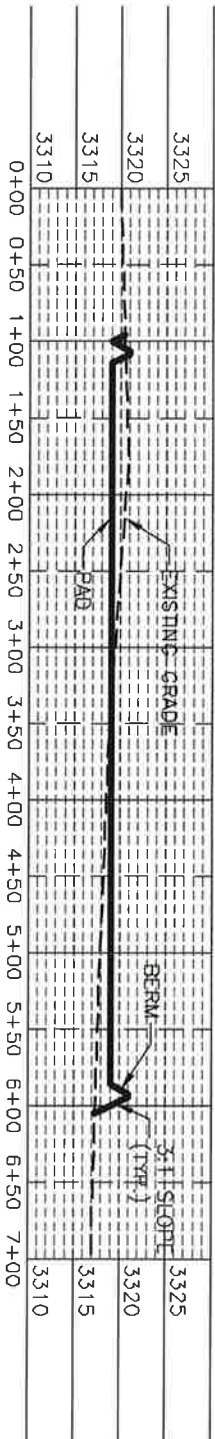
SHEET 1-2 SURVEY NO. 7987

CROSS-SECTIONS

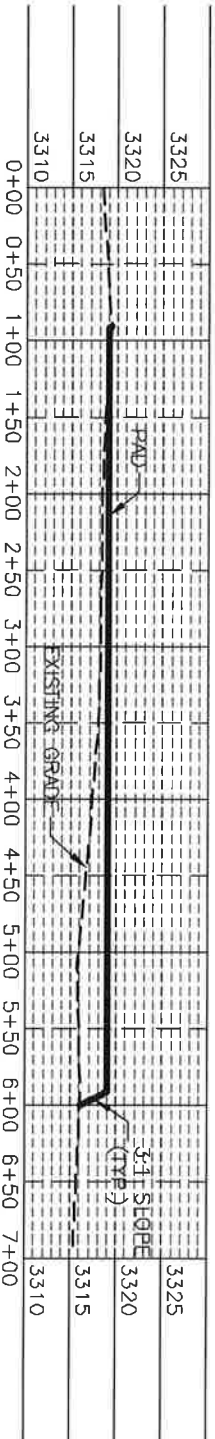
SECTION A-A'



SECTION B-B'



SECTION C-C'



I, FILIPINO MARILYN A. R. MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFICATE NO. 12297, HAVE REVIEWED AND AM RESPONSIBLE FOR THE ACCURACY OF THE DATA AND THE CORRECTNESS OF THE BEARING, DISTANCE, AND THIS SURVEY AND PLAT MEET THE REQUIREMENTS OF THE SURVEYING ACT IN NEW MEXICO.

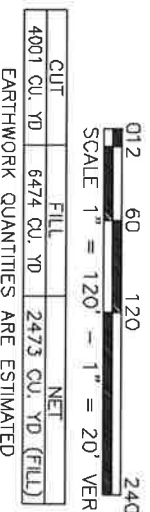
COLGATE ENERGY LLC
PAD GRADING AND CROSS SECTIONS
FOR SHAMROCK 34 FED STATE COM 121H

SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

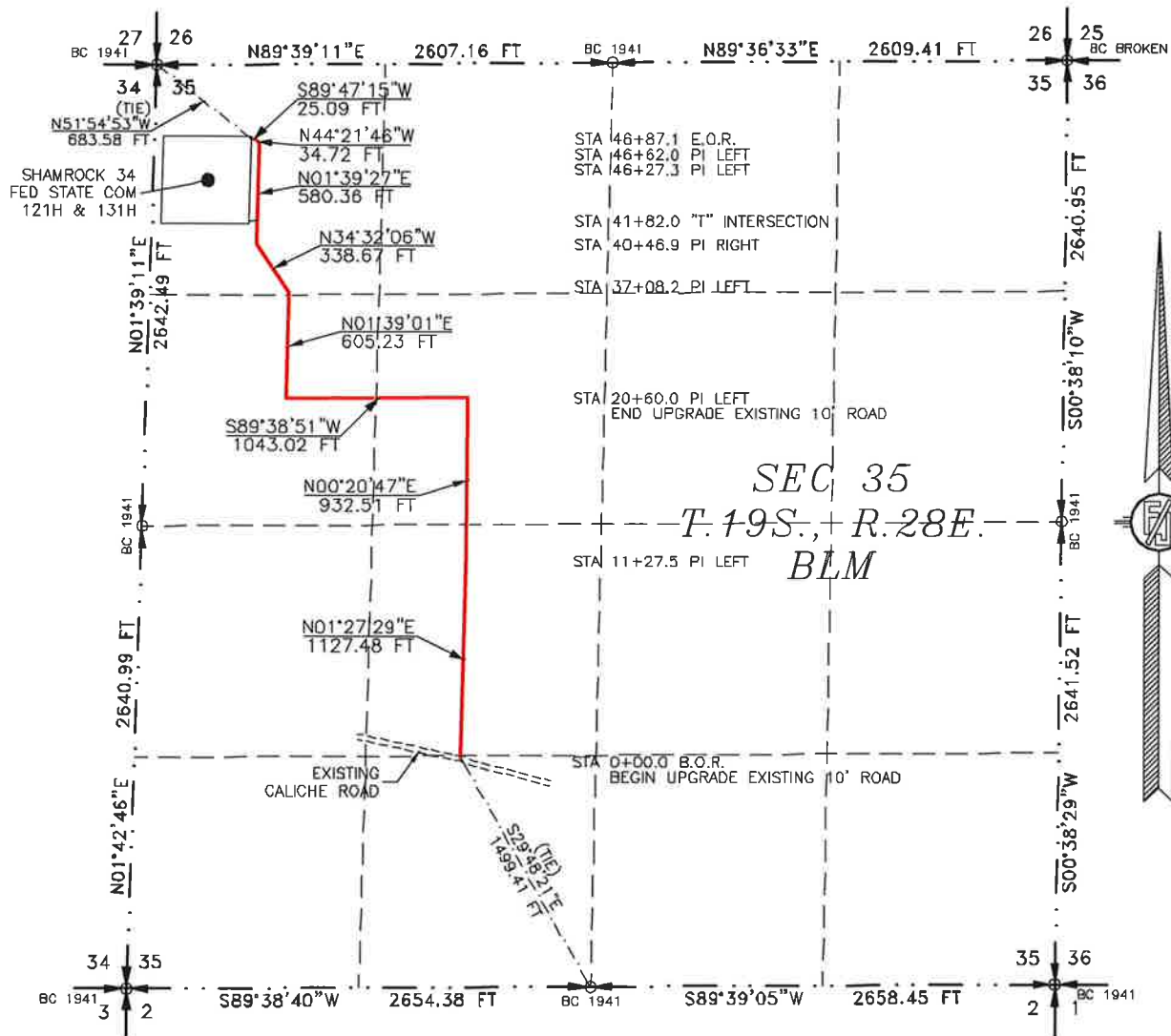
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SHEET 2-2
SURVEY NO. 7987

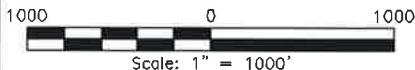


ACCESS ROAD PLAT
PRIMARY ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020



SEE NEXT SHEET (2-4) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 16th DAY OF FEBRUARY 2020

FILIMON F. JARAMILLO, PLS. 12797
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
(575) 234-3341

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7987

ACCESS ROAD PLAT

PRIMARY ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SW/4 OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S29°48'21"E, A DISTANCE OF 1499.41 FEET;
THENCE N01°27'29"E A DISTANCE OF 1127.48 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°20'47"E A DISTANCE OF 932.51 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°38'51"W A DISTANCE OF 1043.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N01°39'01"E A DISTANCE OF 605.23 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N34°32'06"W A DISTANCE OF 338.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N01°39'27"E A DISTANCE OF 580.36 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N44°21'46"W A DISTANCE OF 34.72 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°47'15"W A DISTANCE OF 25.09 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N51°54'53"W, A DISTANCE OF 683.58 FEET;

SAID STRIP OF LAND BEING 4687.08 FEET OR 284.07 RODS IN LENGTH, CONTAINING 3.228 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4	14.20 L.F.	0.86 RODS	0.010 ACRES
NE/4 SW/4	1320.53 L.F.	80.03 RODS	0.909 ACRES
SE/4 NW/4	1257.61 L.F.	76.22 RODS	0.866 ACRES
SW/4 NW/4	1105.88 L.F.	67.02 RODS	0.762 ACRES
NW/4 NW/4	988.86 L.F.	59.93 RODS	0.681 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 26 DAY OF FEBRUARY 2020



MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7987

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSF EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-4

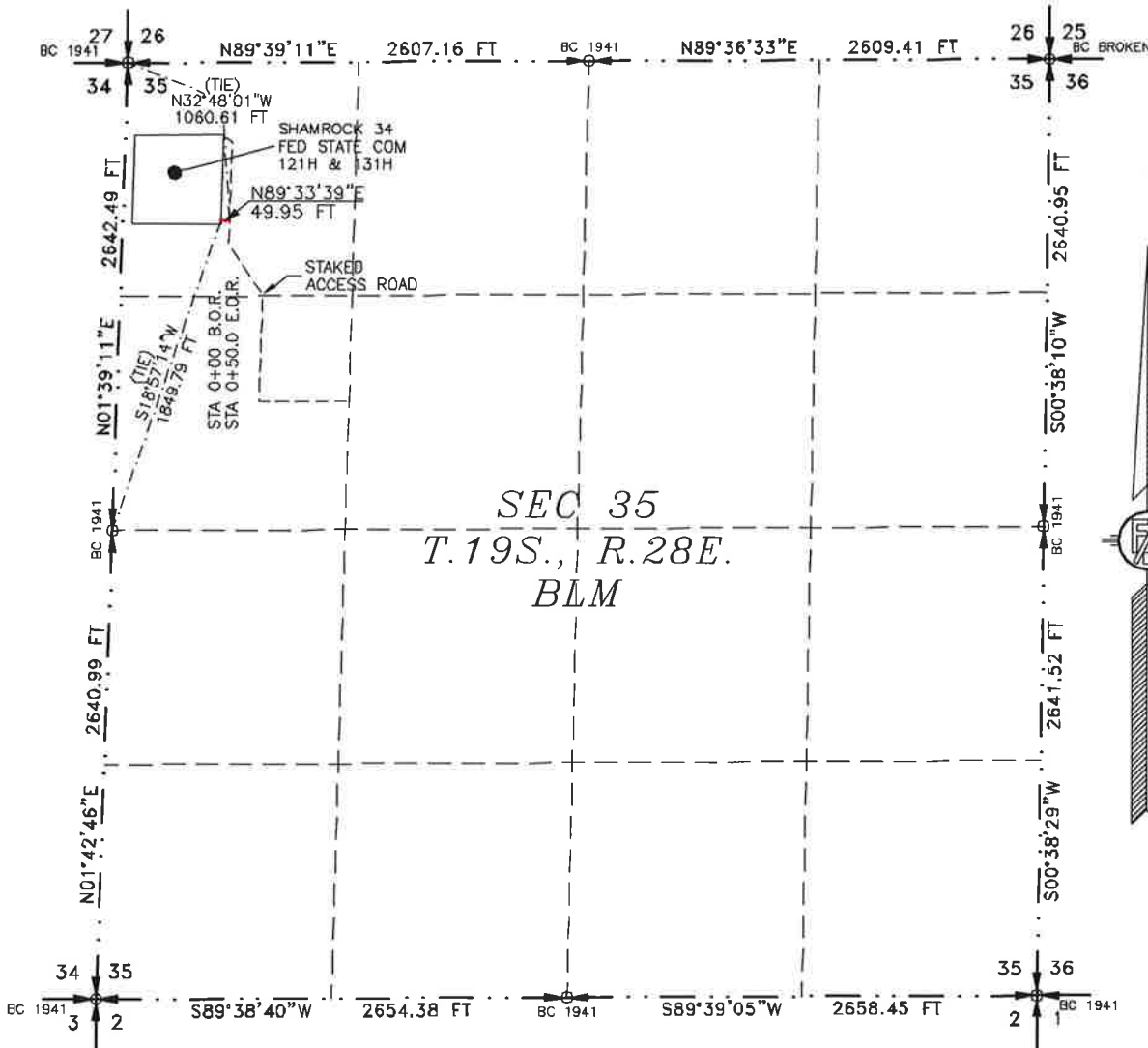
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

ACCESS ROAD PLAT

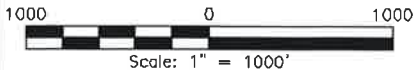
SOUTH ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020



SEE NEXT SHEET (4-4) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 3-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 15th DAY OF FEBRUARY 2020

FILMON F. JARAMILLO, PLS. 12797

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7987

ACCESS ROAD PLAT

SOUTH ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S18°57'14"W, A DISTANCE OF 1849.79 FEET;

THENCE N89°33'39"E A DISTANCE OF 49.95 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N32°48'01"W, A DISTANCE OF 1060.61 FEET;

SAID STRIP OF LAND BEING 49.95 FEET OR 3.03 RODS IN LENGTH, CONTAINING 0.034 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 49.95 L.F. 3.03 RODS 0.034 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 25TH DAY OF FEBRUARY 2020


FILIMON F. JARAMILLO, PLS. 12797

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7987

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 4-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

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 Road, 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) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name SHAMROCK 34 FED STATE COM	
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁶ Well Number 131H
		⁹ Elevation 3317.7

¹⁰ Surface Location

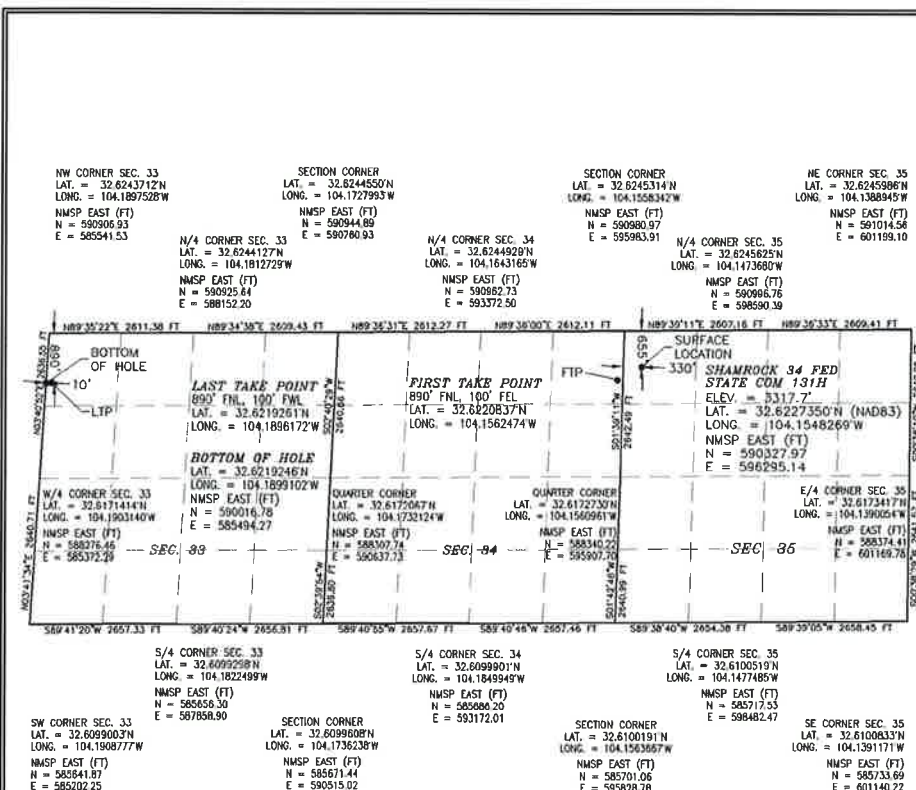
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	19 S	28 E		655	NORTH	330	WEST	EDDY

¹¹ 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	33	19 S	28 E		890	NORTH	10	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁶ Order No.
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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.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸ 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.

FEBRUARY 14, 2020

Date of Survey _____

Signature and seal of professional surveyor: _____

Certificate Number: _____



Intent ☐ As Drilled ☐

API #			
Operator Name: COLGATE OPERATING, LLC		Property Name: SHAMROCK 34 FED STATE COM	Well Number 131H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL A	Section 34	Township 19S	Range 28E	Lot	Feet 890	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.6220837					Longitude 104.1562474				NAD 83

Last Take Point (LTP)

UL D	Section 33	Township 19S	Range 28E	Lot	Feet 890	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6219261					Longitude 104.1896172				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

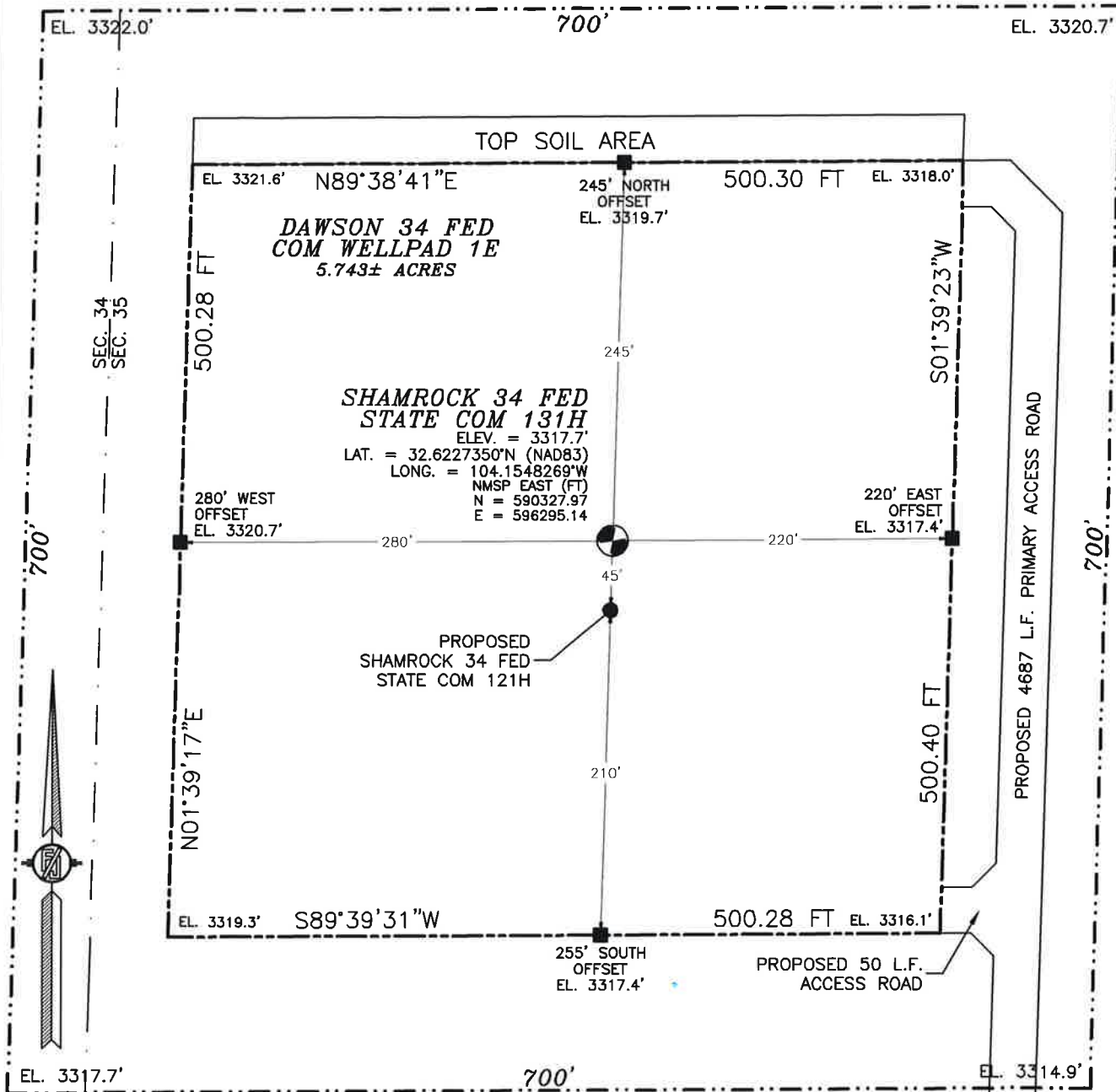
Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 208 AND CR. 237 GO NORTH ON CR. 208 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, TURN RIGHT AND GO SOUTHEAST 0.45 MILES, BEND LEFT AND GO EAST-SOUTHEAST 0.4 MILES, TURN LEFT AND GO NORTH 0.4 MILES TO A ROAD SURVEY AND FOLLOW ROAD WEST 1.0 MILES, THEN NORTH 605', THEN NORTHWEST 338', THEN NORTH 135', THEN WEST 50' TO THE SOUTHEAST CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT THE DIRECTIONS AND DISTANCES SET FORTH IN THIS SURVEY, THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE STANDARDS OF MY KNOWLEDGE AND SKILL, AND THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

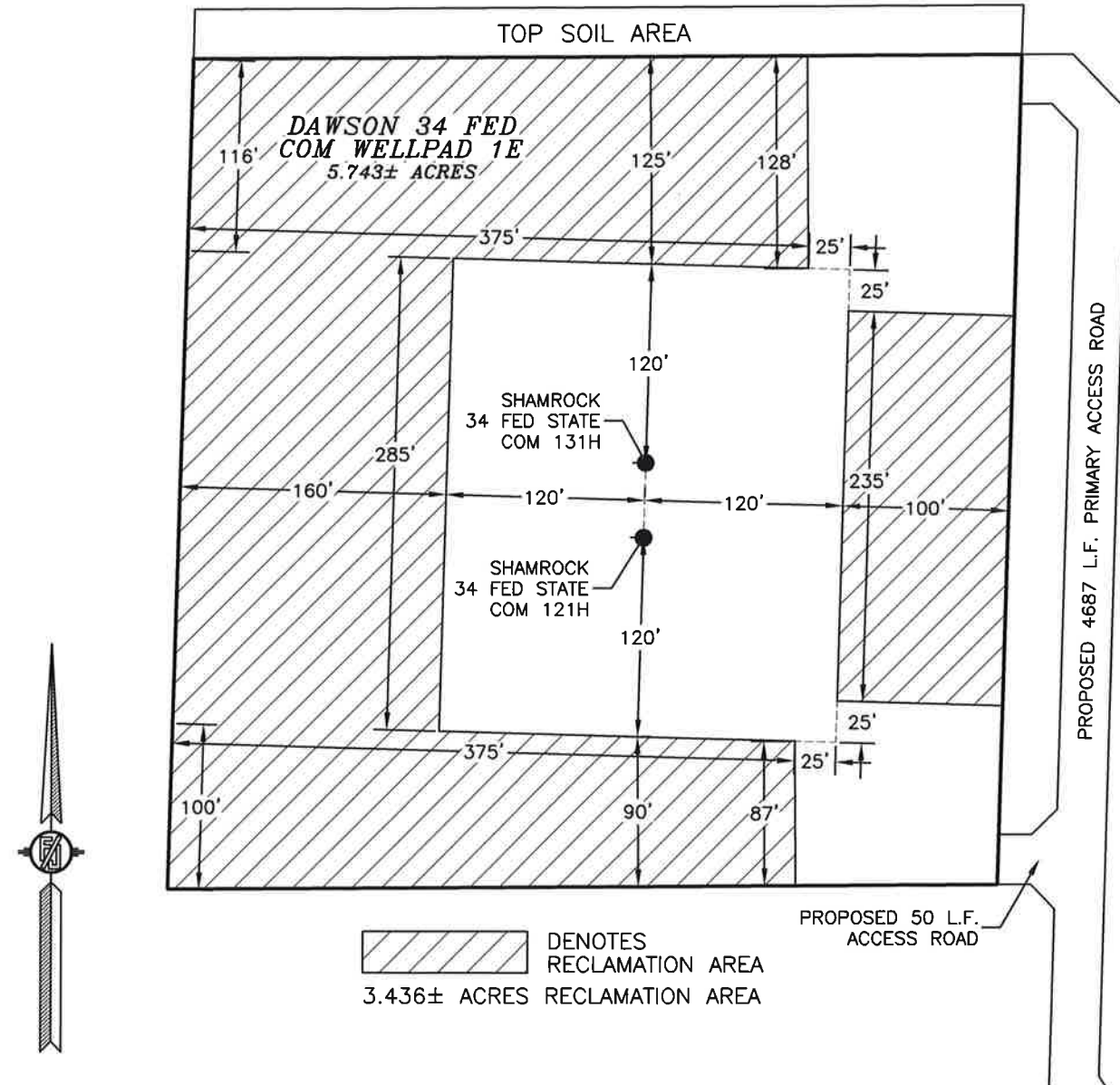
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 131H
LOCATED 655 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



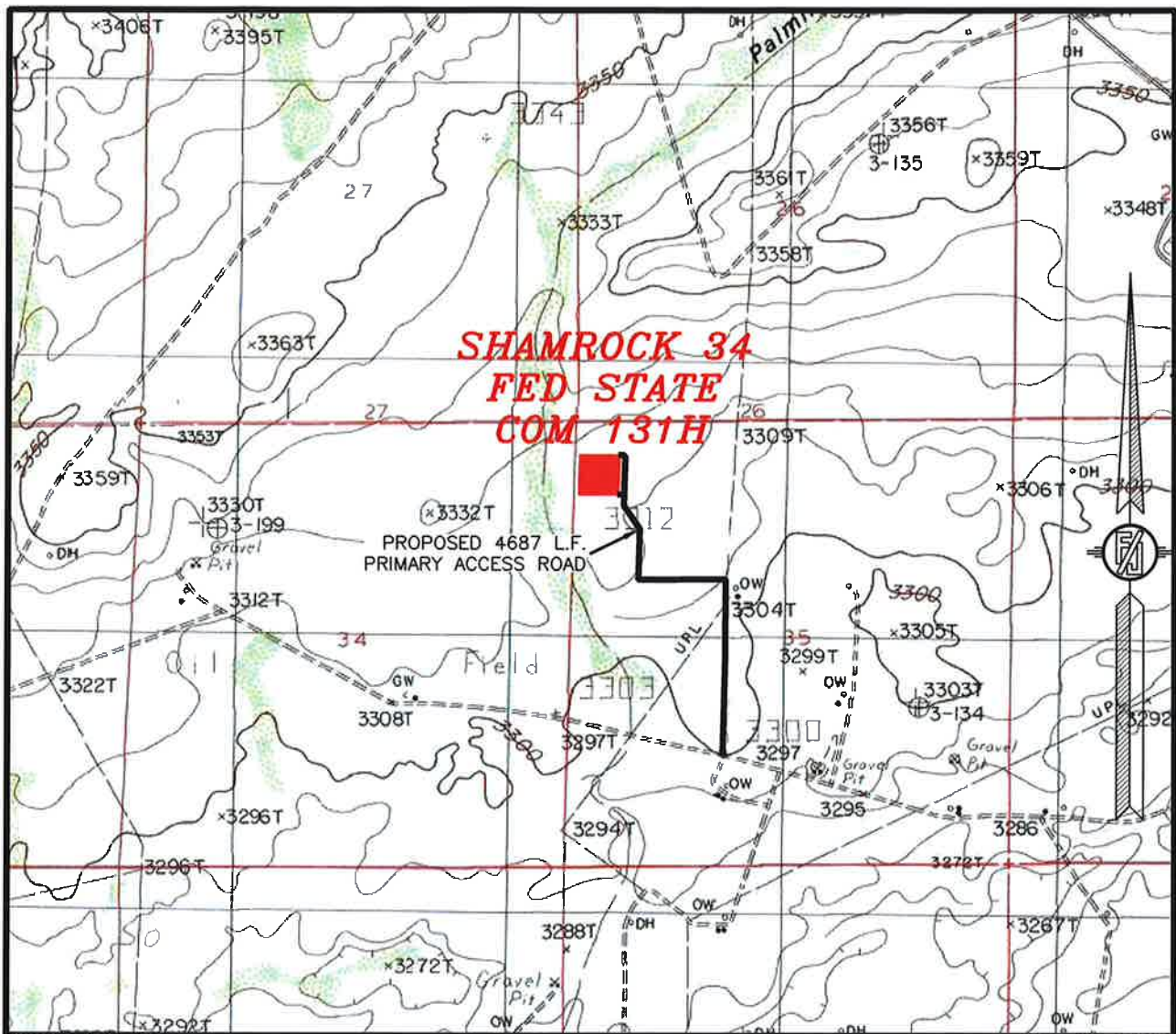
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 131H
 LOCATED 655 FT. FROM THE NORTH LINE
 AND 330 FT. FROM THE WEST LINE OF
 SECTION 35, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ANGEL DRAW

NOT TO SCALE

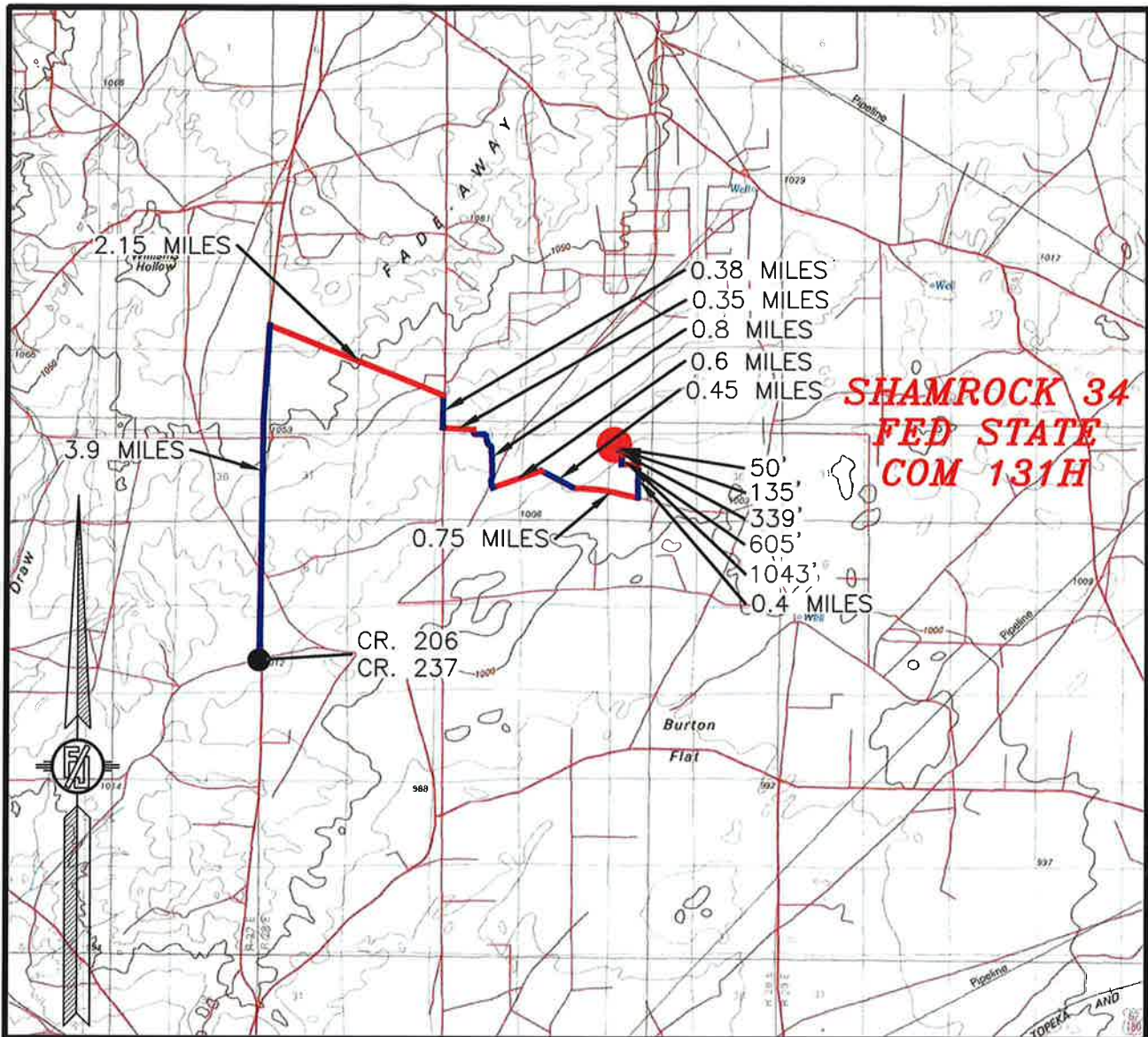
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 131H
LOCATED 655 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, BEND RIGHT AND GO SOUTHEAST 0.45 MILES, BEND LEFT AND GO EAST-SOUTHEAST 0.75 MILES, TURN LEFT AND GO NORTH 0.4 MILES TO A ROAD SURVEY AND FOLLOW FLAGS WEST 1043', THEN NORTH 605', THEN NORTHWEST 339', THEN NORTH 135', THEN WEST 50' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

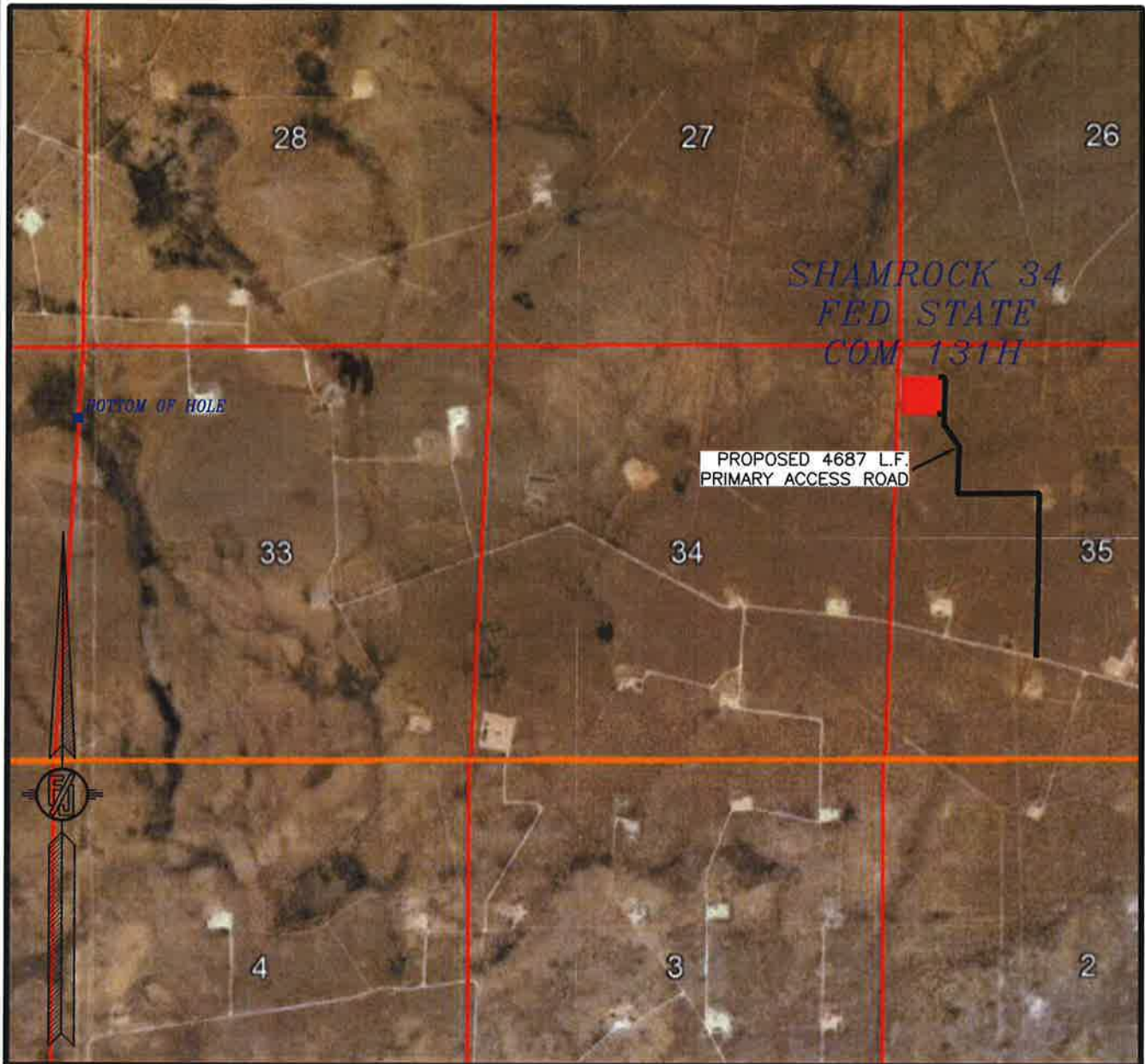
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 131H
LOCATED 655 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

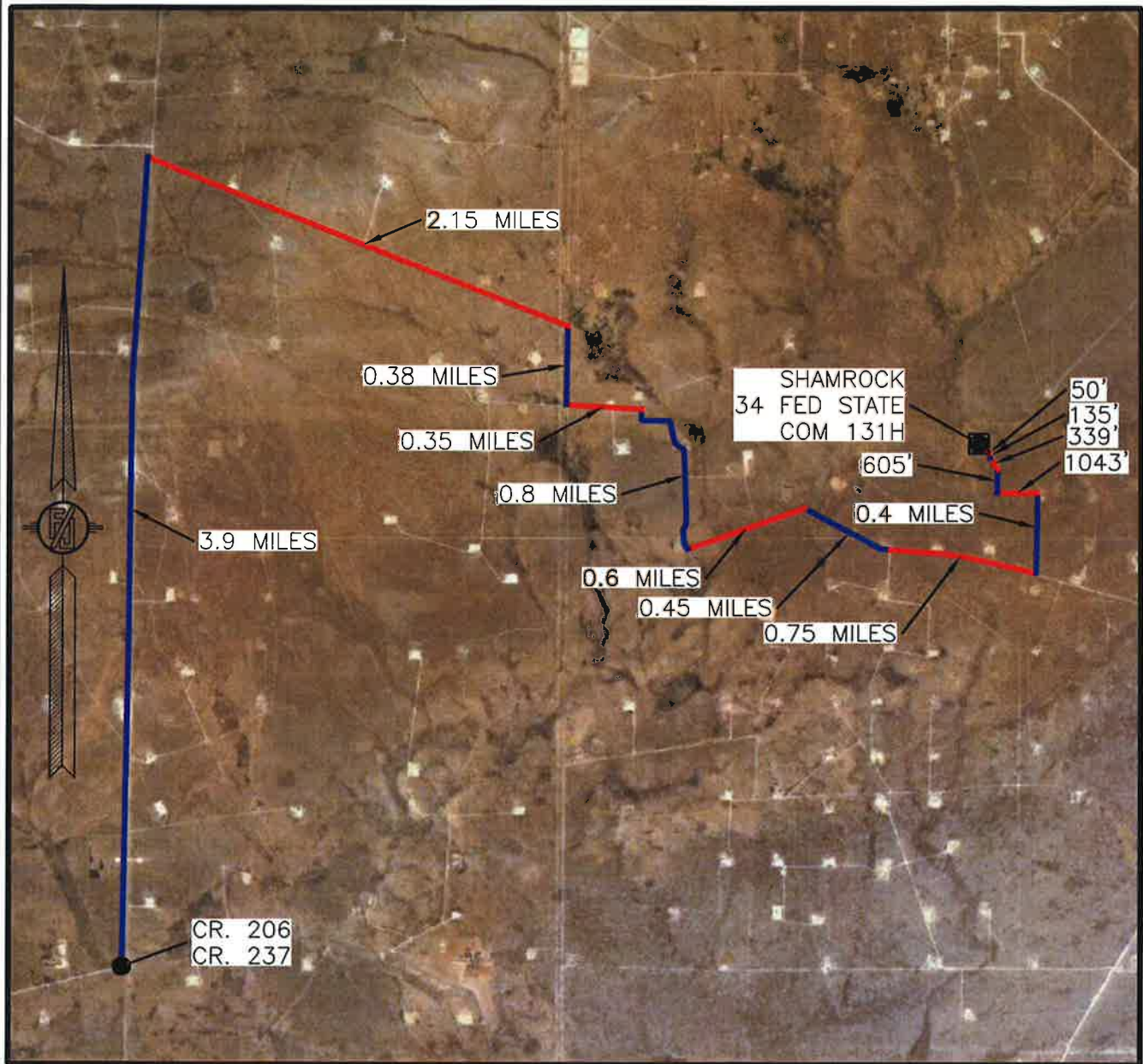
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 131H
LOCATED 655 FT. FROM THE NORTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

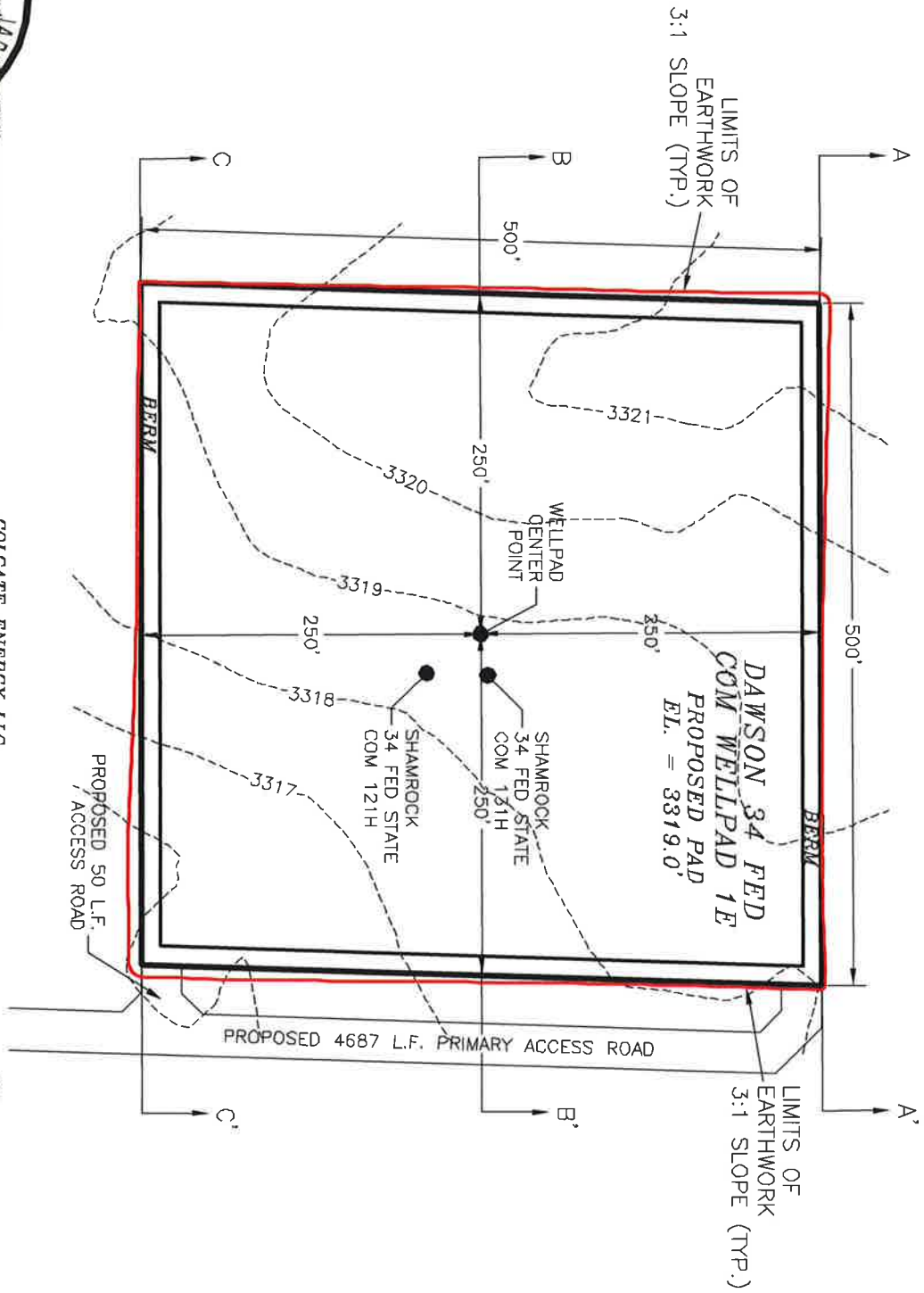
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 131H
 LOCATED 655 FT. FROM THE NORTH LINE
 AND 330 FT. FROM THE WEST LINE OF
 SECTION 35, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PLAN VIEW



I, FLANNERY E. JARVIS, A PROFESSIONAL SURVEYOR, HAVE PREPARED AND AM RESPONSIBLE FOR THIS SURVEY. I HAVE BEEN A MEMBER OF THE BOARD OF SURVEYORS AND ENGINEERS FOR SURVEYING IN NEW MEXICO SINCE 1997.

COLGATE ENERGY LLC
PAD GRADING AND CROSS SECTIONS
FOR SHAMROCK 34 FED STATE COM 131H
SECTION 36, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL (975) 234-3343 NEW MEXICO

SHEET 1-2 SURVEY NO. 7988

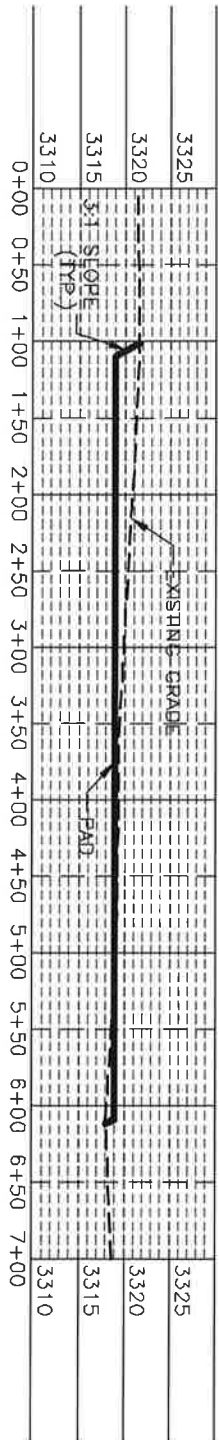
CUT	FILL	NET
4001 CU. YD	6474 CU. YD	2473 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

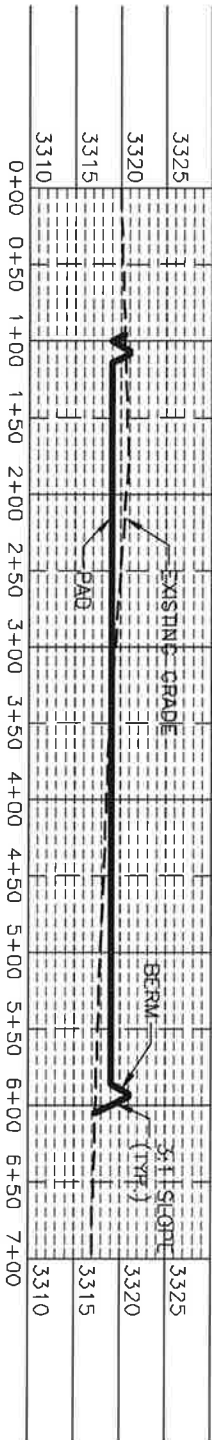


CROSS-SECTIONS

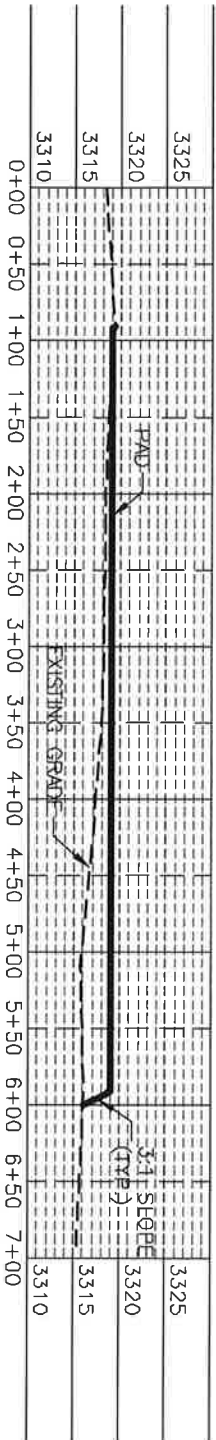
SECTION A-A'



SECTION B-B'



SECTION C-C'



I, FILIPINO N. NARAYAN, A.R. MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFICATE NO. 122937, DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE ENERGY LLC
PAD GRADING AND CROSS SECTIONS
FOR SHAMROCK 34 FED STATE COM 131H
SECTION 35, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
4001 CU. YD	6474 CU. YD	2473 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED



MADRON SURVEYING, INC. 301 SOUTH CANAL (505) 234-3341 CARLSBAD, NEW MEXICO

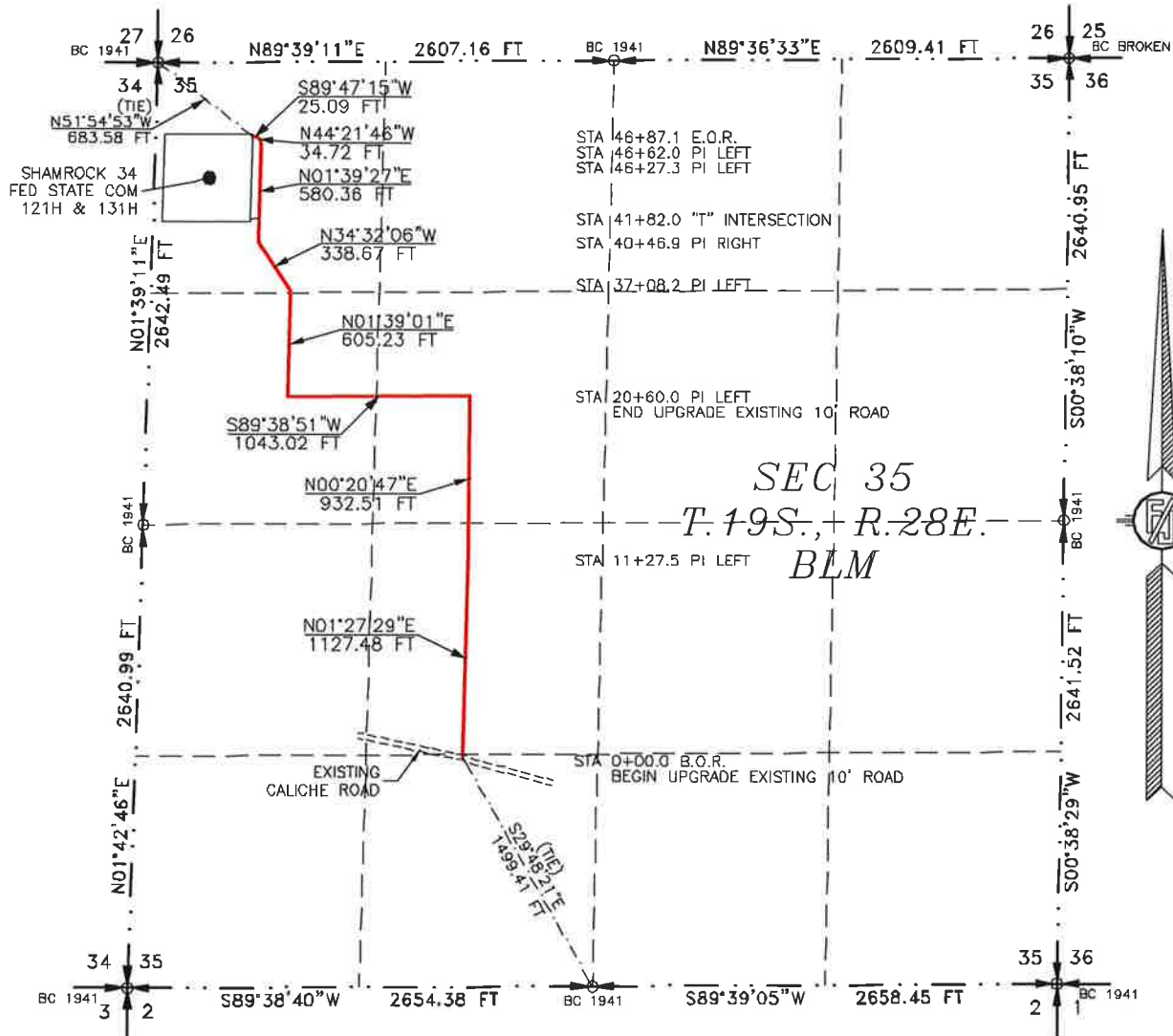
SHEET 2-2
SURVEY NO. 7988

ACCESS ROAD PLAT

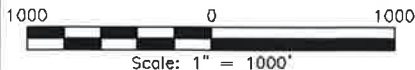
PRIMARY ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020



SEE NEXT SHEET (2-4) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

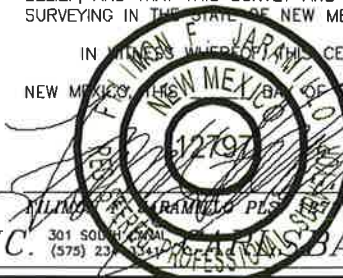
SHEET: 1-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14th DAY OF FEBRUARY 2020



MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7988

ACCESS ROAD PLAT

PRIMARY ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SW/4 OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S29°48'21"E, A DISTANCE OF 1499.41 FEET;
THENCE N01°27'29"E A DISTANCE OF 1127.48 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°20'47"E A DISTANCE OF 932.51 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°38'51"W A DISTANCE OF 1043.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N01°39'01"E A DISTANCE OF 605.23 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N34°32'06"W A DISTANCE OF 338.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N01°39'27"E A DISTANCE OF 580.36 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N44°21'46"W A DISTANCE OF 34.72 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°47'15"W A DISTANCE OF 25.09 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N51°54'53"W, A DISTANCE OF 683.58 FEET;

SAID STRIP OF LAND BEING 4687.08 FEET OR 284.07 RODS IN LENGTH, CONTAINING 3.228 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4	14.20 L.F.	0.86 RODS	0.010 ACRES
NE/4 SW/4	1320.53 L.F.	80.03 RODS	0.909 ACRES
SE/4 NW/4	1257.61 L.F.	76.22 RODS	0.866 ACRES
SW/4 NW/4	1105.88 L.F.	67.02 RODS	0.762 ACRES
NW/4 NW/4	988.86 L.F.	59.93 RODS	0.681 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 24 DAY OF FEBRUARY 2020



MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7988

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-4

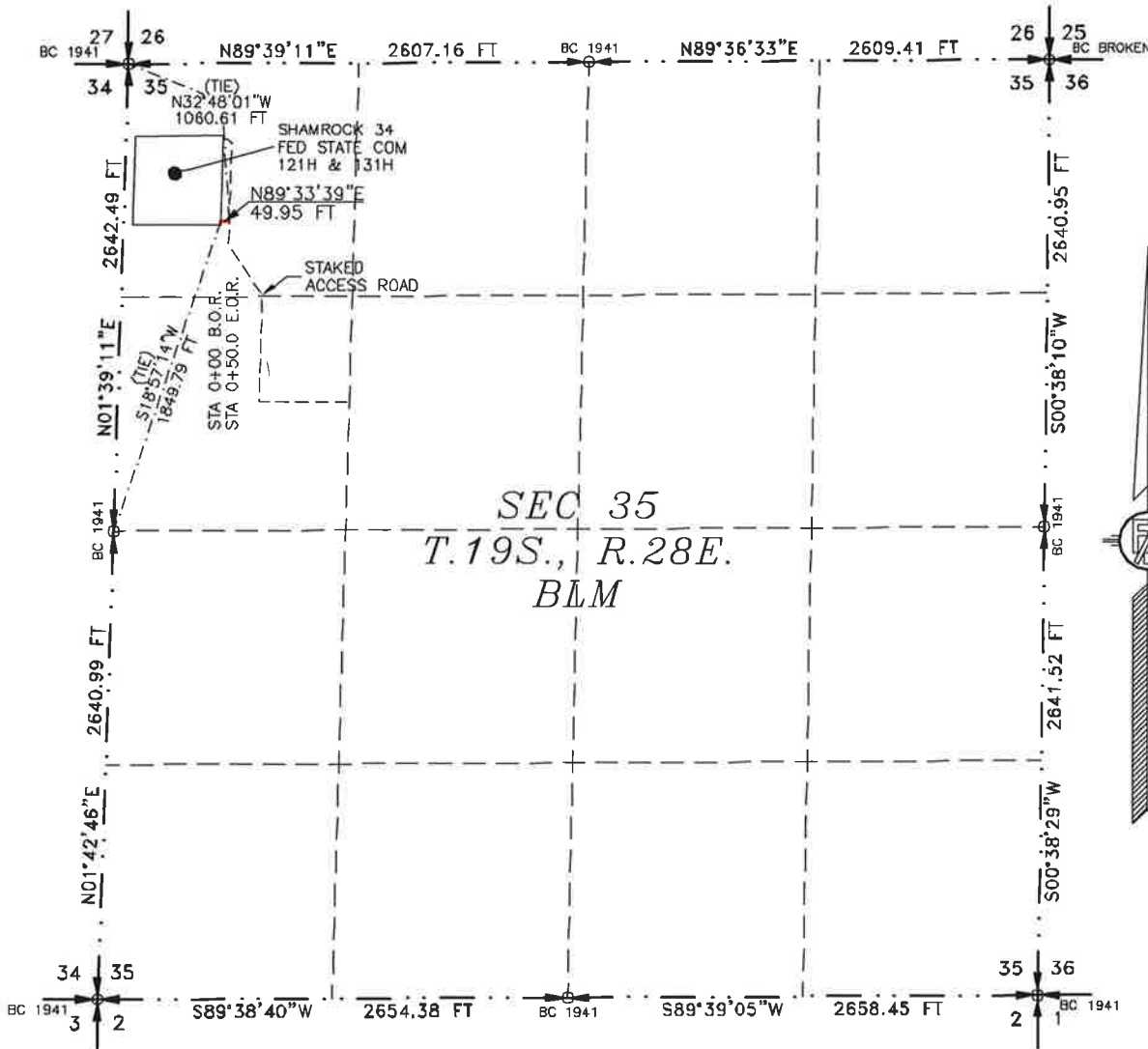
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

ACCESS ROAD PLAT

SOUTH ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020



SEE NEXT SHEET (4-4) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 3-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14th DAY OF FEBRUARY 2020

FILMON F. JARAMILLO
12797
NEW MEXICO PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7988

ACCESS ROAD PLAT

SOUTH ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

COLGATE ENERGY LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 14, 2020**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S18°57'14"W, A DISTANCE OF 1849.79 FEET;
THENCE N89°33'39"E A DISTANCE OF 49.95 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N32°48'01"W, A DISTANCE OF 1060.61 FEET;

SAID STRIP OF LAND BEING 49.95 FEET OR 3.03 RODS IN LENGTH, CONTAINING 0.034 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 49.95 L.F. 3.03 RODS 0.034 ACRES

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 4-4

MADRON SURVEYING, INC.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14TH DAY OF FEBRUARY 2020



MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7988

301 SOUTH CANAL
(575) 234-3341
CARLSBAD, NEW MEXICO

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 Road, 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) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name SHAMROCK 34 FED STATE COM	⁶ Well Number 122H
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁹ Elevation 3309.3

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	19 S	28 E		2610	SOUTH	295	EAST	EDDY

¹¹ 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
E	33	19 S	28 E		2295	NORTH	10	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸ 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.

MARCH 18, 2020

Date of Survey _____

Signature and Seal of Professional Surveyor: _____

Certificate Number: _____

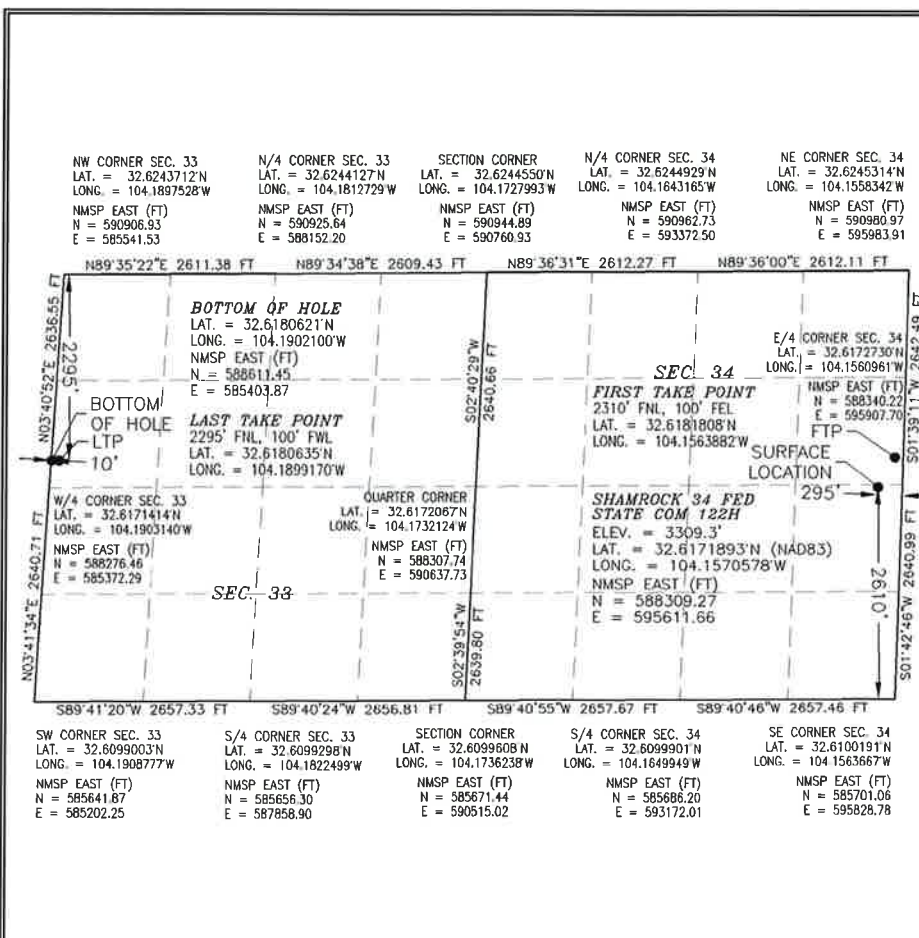


EXHIBIT
7

Intent ☐ As Drilled ☐

API #			
Operator Name: COLGATE OPERATING, LLC		Property Name: SHAMROCK 34 FED STATE COM	Well Number 122H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL H	Section 34	Township 19S	Range 28E	Lot	Feet 2310	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.6181808					Longitude 104.1563882				NAD 83

Last Take Point (LTP)

UL E	Section 33	Township 19S	Range 28E	Lot	Feet 2295	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6180635					Longitude 104.1899170				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

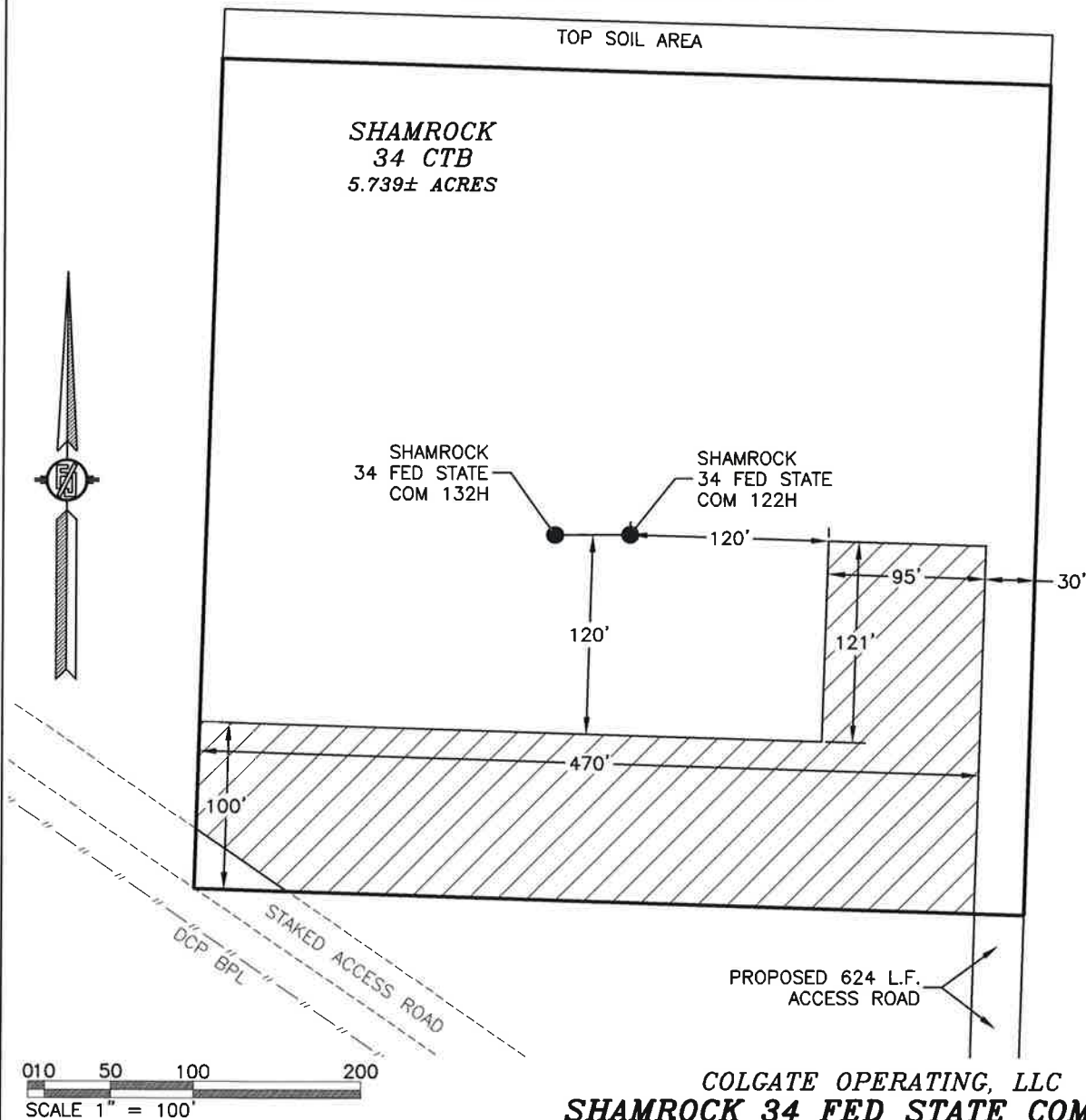
API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018

Ex.1pg.083

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION

 DENOTES
RECLAMATION AREA
1.323± ACRES RECLAMATION AREA



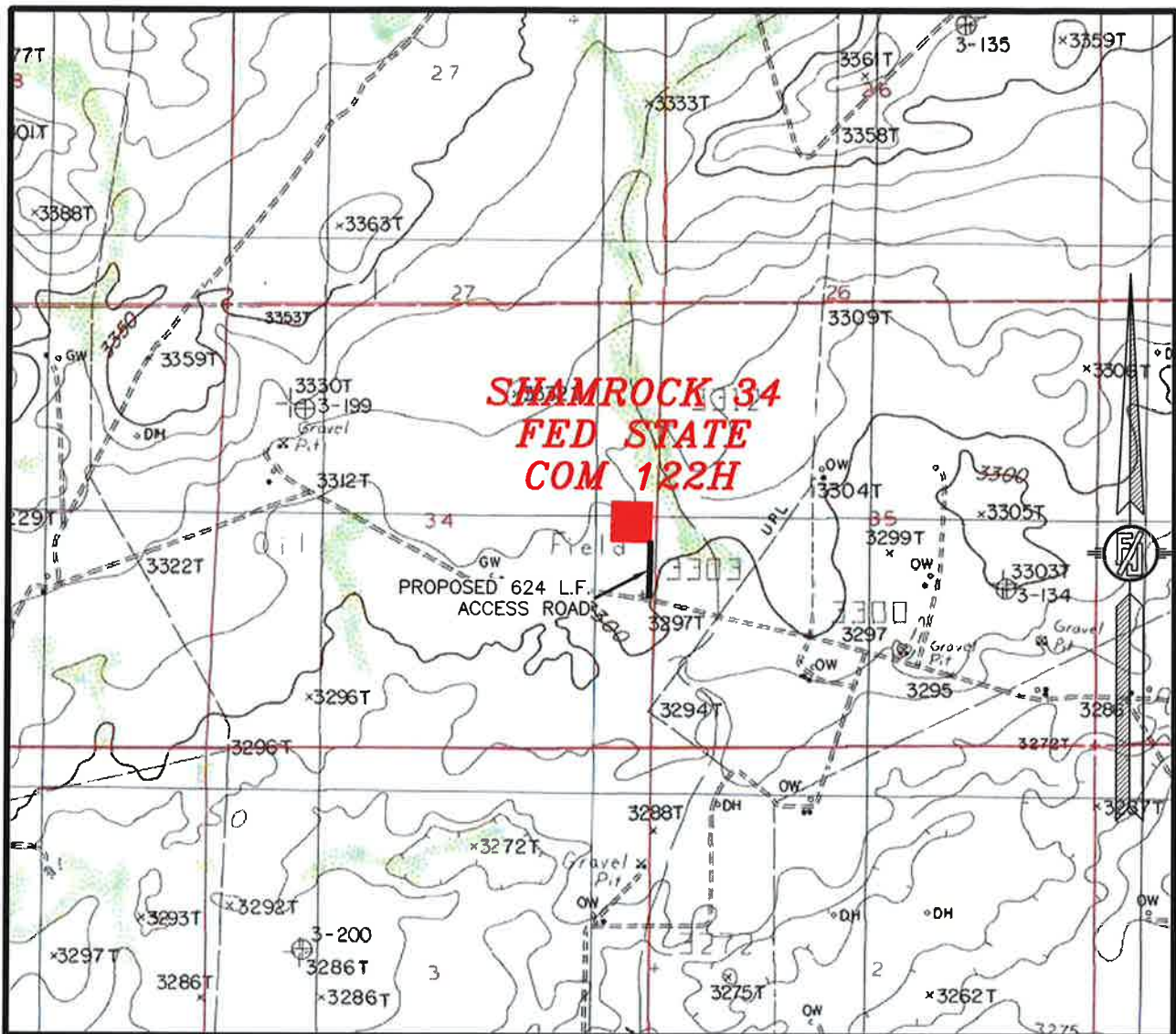
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 122H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 295 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

SURVEY NO. 7985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ANGEL DRAW

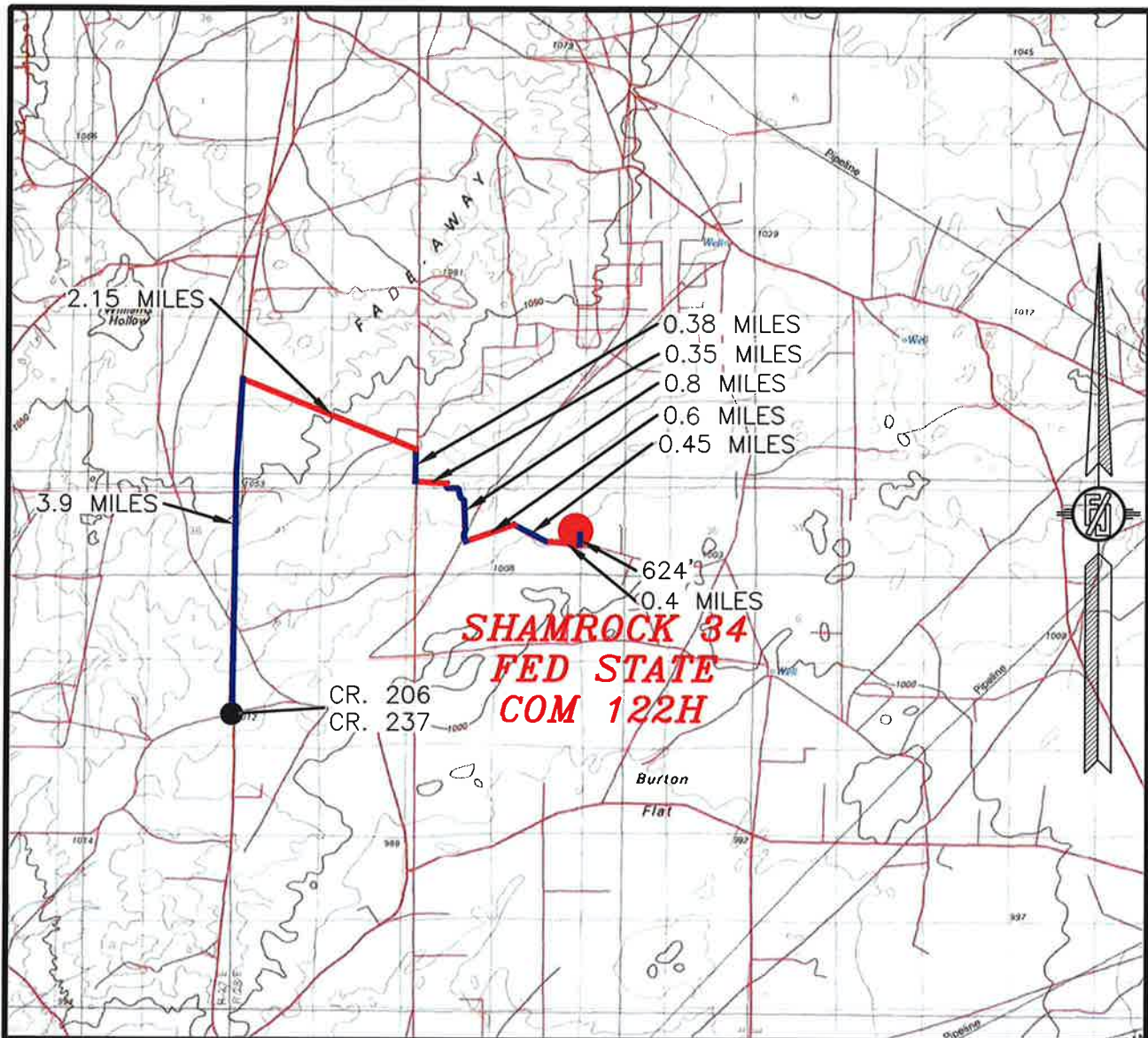
NOT TO SCALE

COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 122H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 295 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 SURVEY NO. 7985A CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, BEND RIGHT AND GO SOUTHEAST 0.45 MILES, BEND LEFT AND GO 0.4 MILES TO A ROAD SURVEY AND FOLLOW FLAGS NORTH 624' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 122H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 295 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

SURVEY NO. 7985A
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

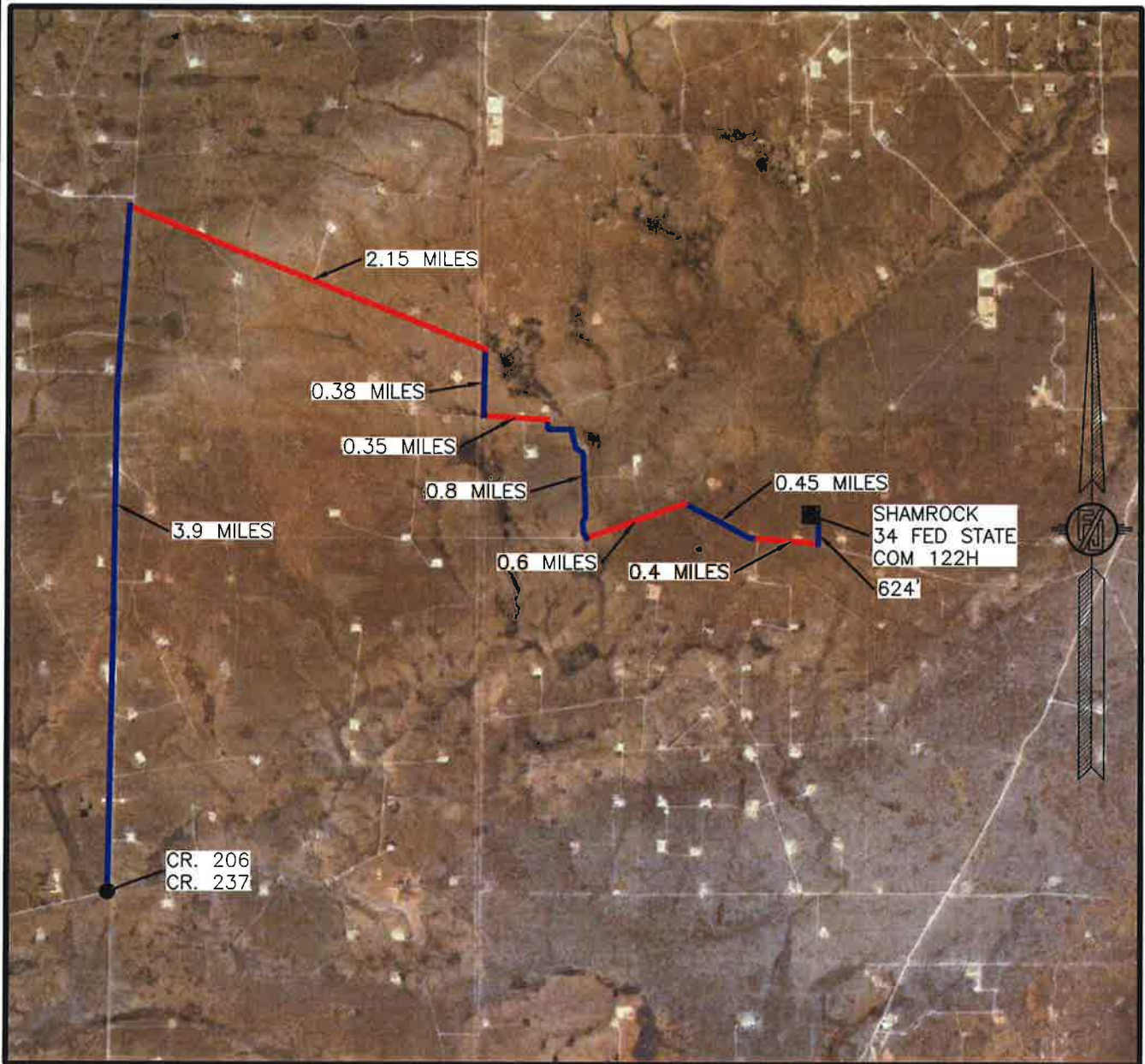
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 122H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 295 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

SURVEY NO. 7985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

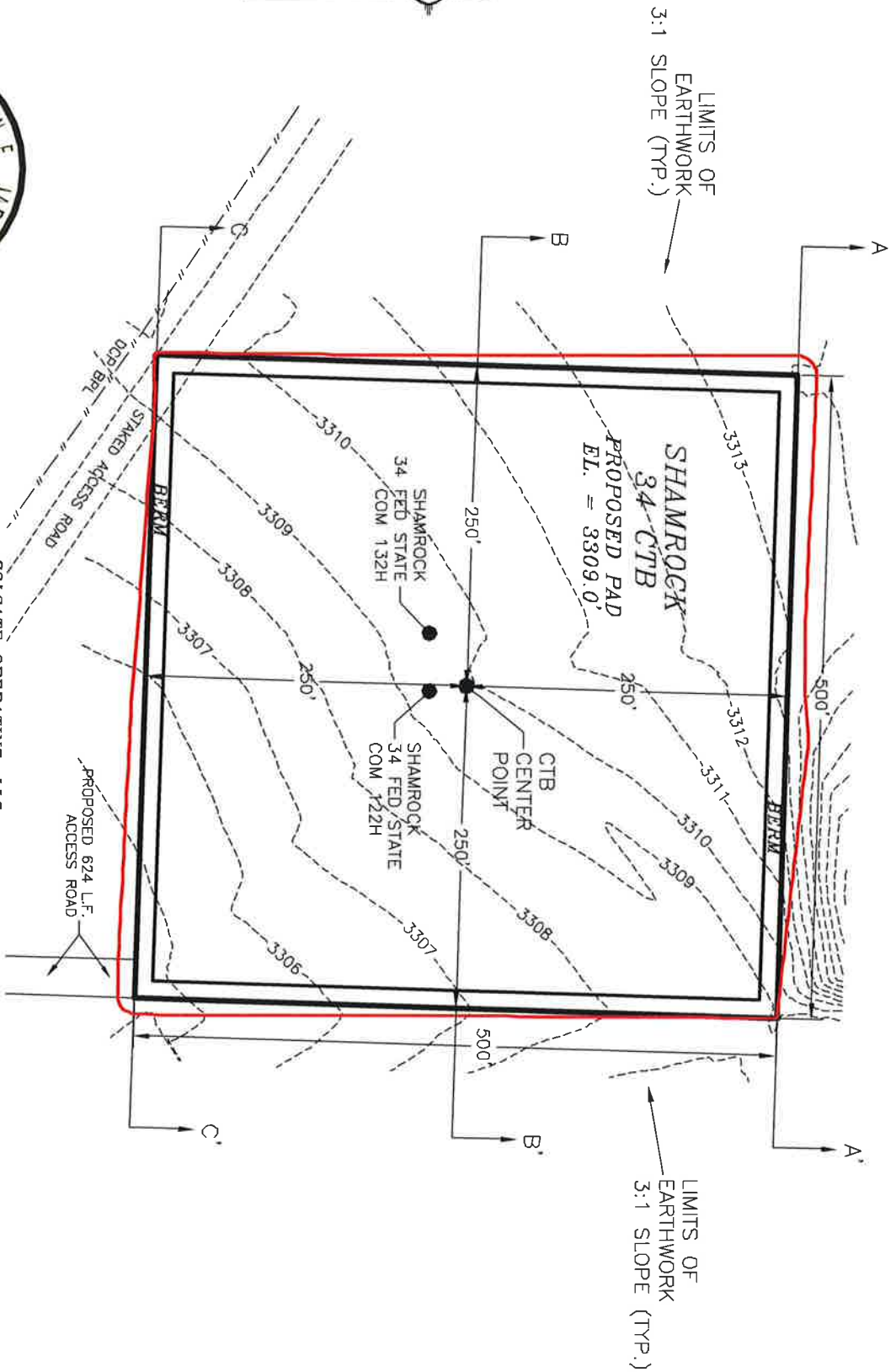
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 122H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 295 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

SURVEY NO. 7985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILMON E. JARVIS, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 11429, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND SKILL AND THE SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR SHAMROCK 34 FED STATE COM 122H
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

IRON SURVEYING, INC. 301 SOUTH CANAL (375) 234-3341 NEW MEXICO

SHEET 1-2 SURVEY NO. 7985A

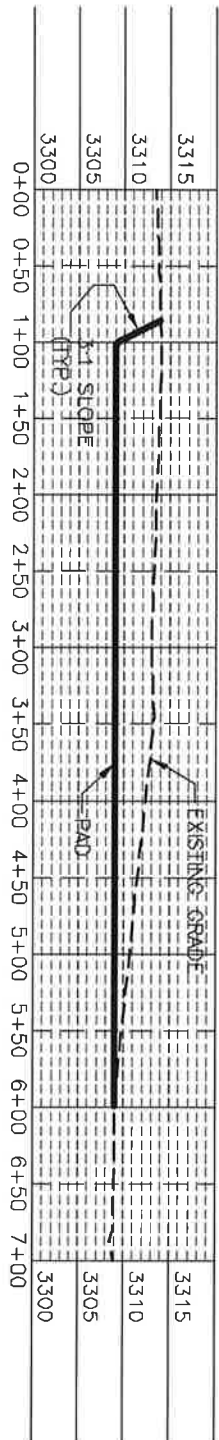
CUT	FILL	NET
10119 CU. YD	7312 CU. YD	2807 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

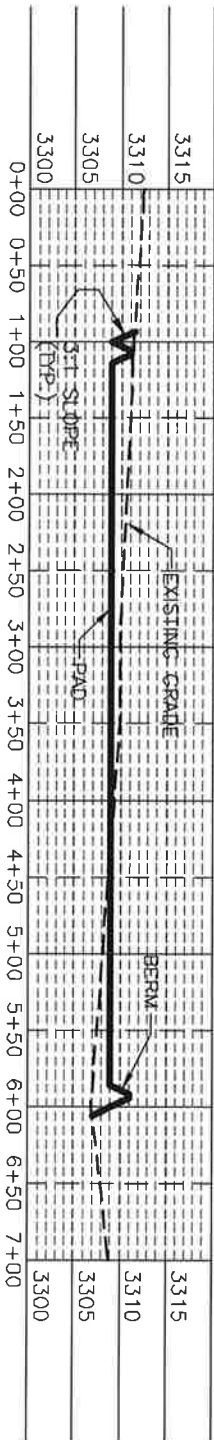


CROSS-SECTIONS

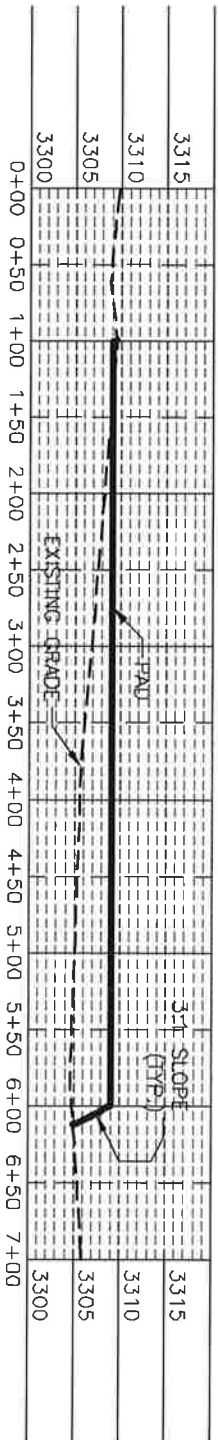
SECTION A-A'



SECTION B-B'



SECTION C-C'



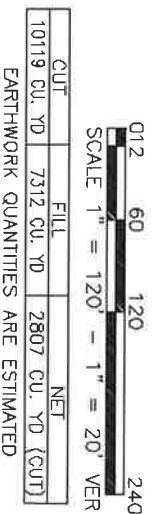
I, FILMON F. JARVIS, a duly licensed PROFESSIONAL SURVEYOR, CERTIFY THAT THE SURVEY AND PLAN HEREON SHOWN ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT I MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR SHAMROCK 34 FED STATE COM 122H
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

IRON SURVEYING, INC. 301 SOUTH CANAL (979) 234-3341 NEW MEXICO

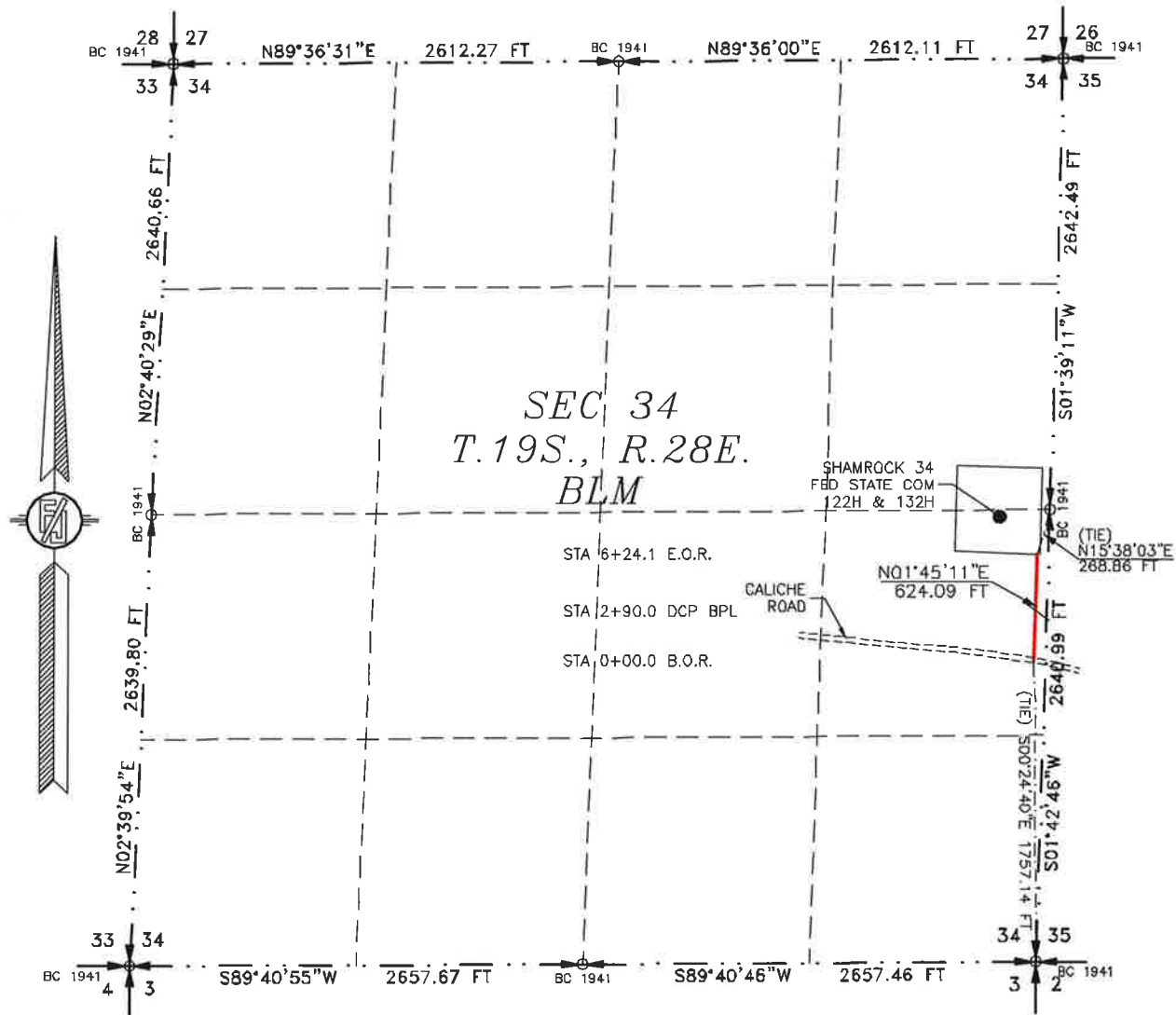
SHEET 2-2 SURVEY NO. 7985A



ACCESS ROAD PLAT

ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 122H & 132H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 18, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 18 DAY OF MARCH 2020

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7985A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

ACCESS ROAD PLAT

ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 122H & 132H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MARCH 18, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S00°24'40"E, A DISTANCE OF 1757.14 FEET;

THENCE N01°45'11"E A DISTANCE OF 624.09 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N15°38'03"E, A DISTANCE OF 268.86 FEET;

SAID STRIP OF LAND BEING 624.09 FEET OR 37.82 RODS IN LENGTH, CONTAINING 0.430 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 624.09 L.F. 37.82 RODS 0.430 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 18 DAY OF MARCH 2020

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

NEW MEXICO

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7985A

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name SHAMROCK 34 FED STATE COM	
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁶ Well Number 132H ⁹ Elevation 3309.5

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	19 S	28 E		2610	SOUTH	340	EAST	EDDY

¹¹ 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
E	33	19 S	28 E		2210	NORTH	10	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸ 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.

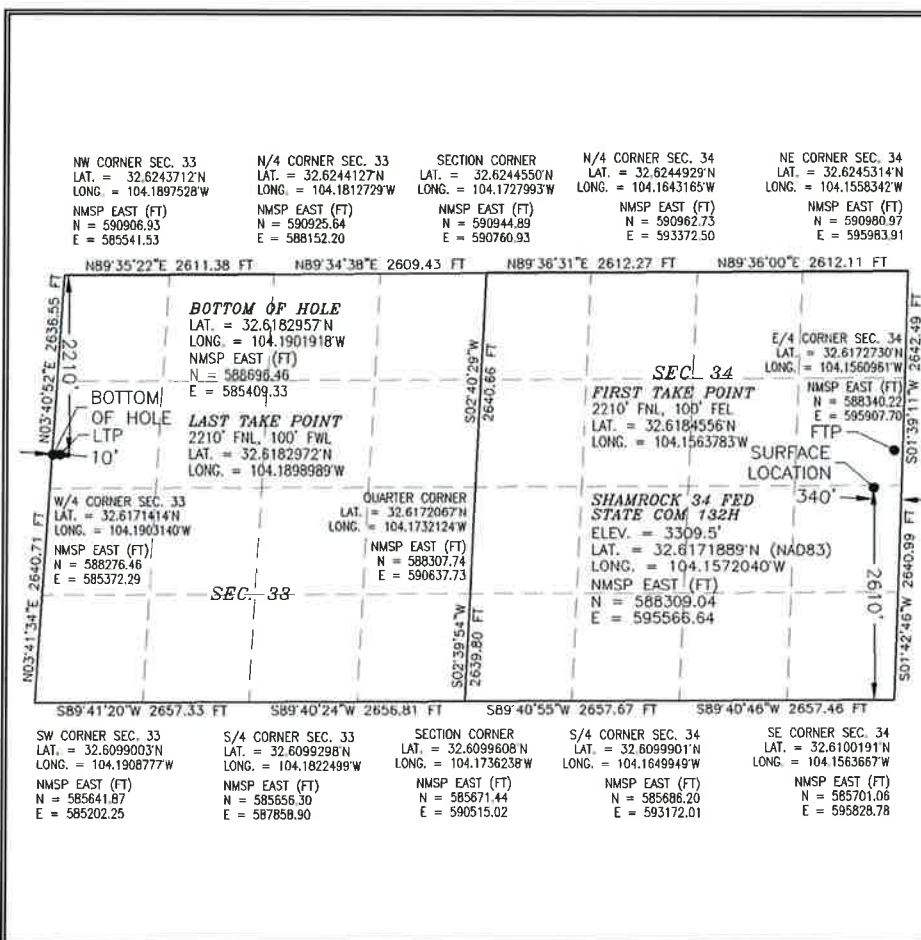
FEBRUARY 17, 2020

Date of Survey _____

Signature and Seal of Professional Surveyor: _____

Certificate Number: _____

Professional Surveyor No. 7986



EXHIBIT

8

Intent ☐ As Drilled ☐

API #			
Operator Name: COLGATE OPERATING, LLC		Property Name: SHAMROCK 34 FED STATE COM	Well Number 132H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL H	Section 34	Township 19S	Range 28E	Lot	Feet 2210	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.6184556					Longitude 104.1563783				NAD 83

Last Take Point (LTP)

UL E	Section 33	Township 19S	Range 28E	Lot	Feet 2210	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6182972					Longitude 104.1898989				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

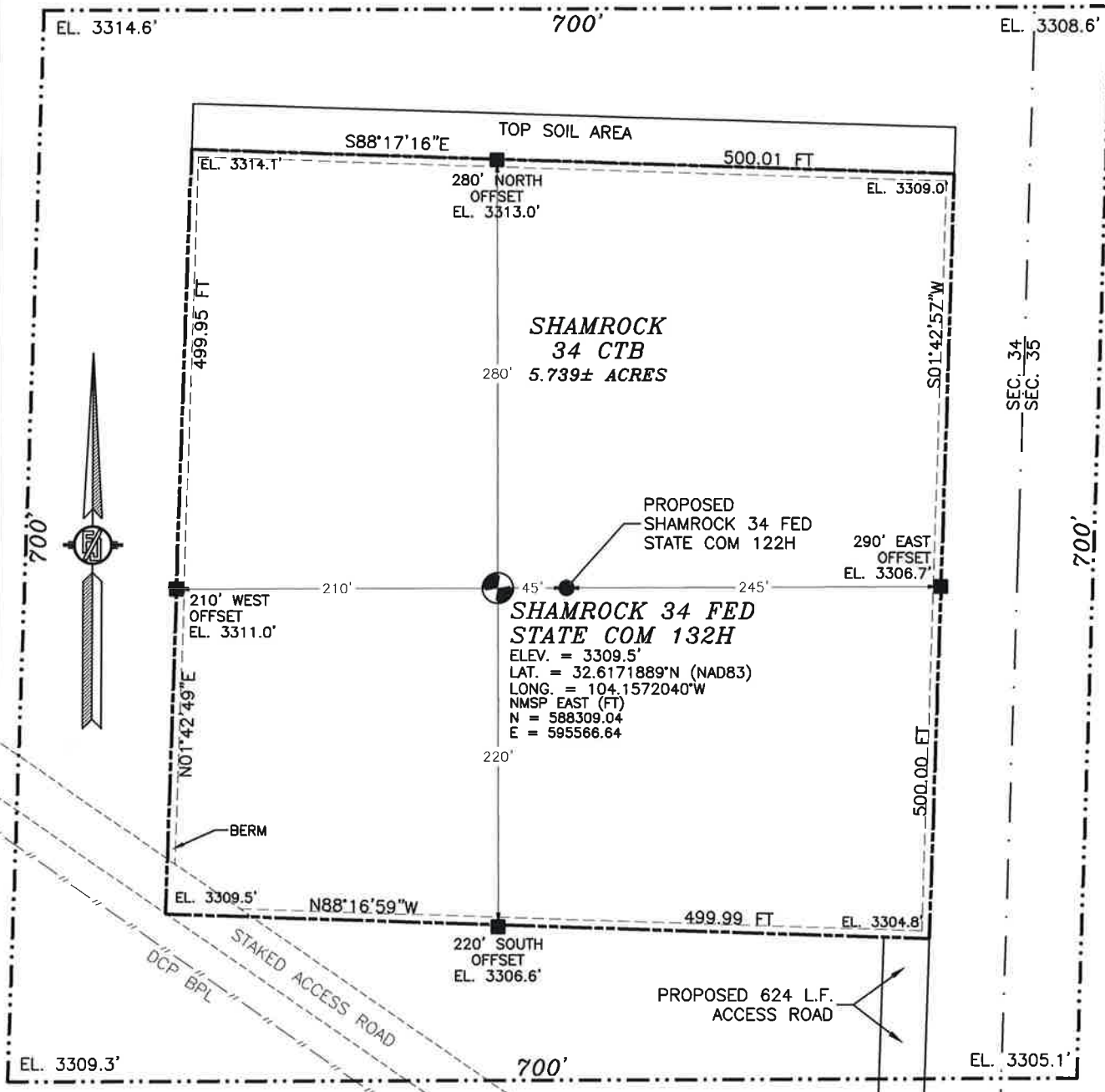
Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 0.1 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.25 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, BEND RIGHT AND GO SOUTHEAST 0.45 MILES, BEND LEFT AND GO 0.4 MILES TO A ROAD SURVEY AND FOLLOW ELONG NORTH 624' TO THE SOUTHEAST PAD CORNER FOR THIS EXCAVATION

I, FILMON E. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THE DIRECTIONS TO LOCATION OF THIS SURVEY, THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE KNOWLEDGE AND STANDARDS FOR THE PRACTICE OF MY PROFESSION

COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 132H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 340 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

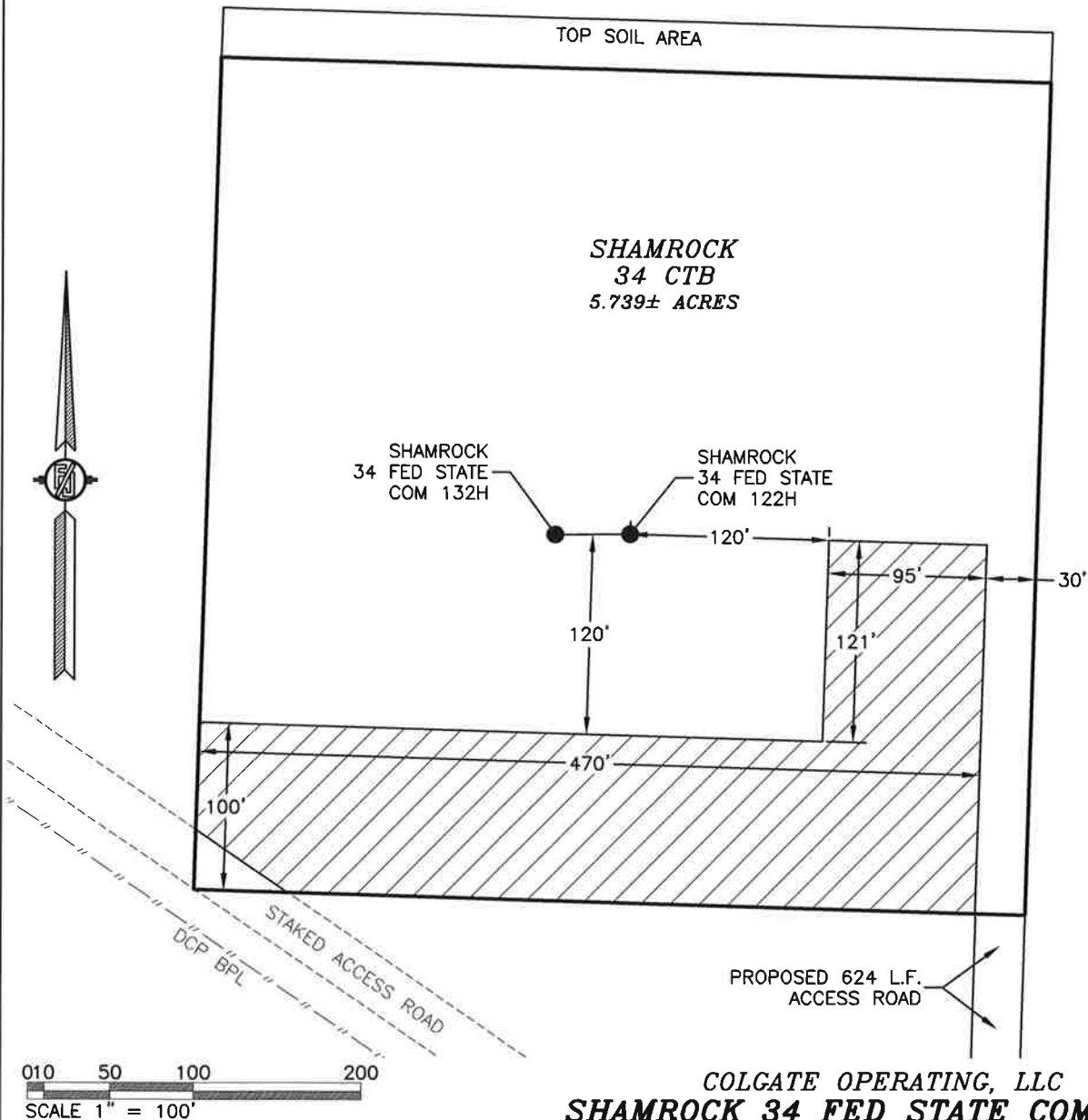
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION

 DENOTES
RECLAMATION AREA
1.323± ACRES RECLAMATION AREA



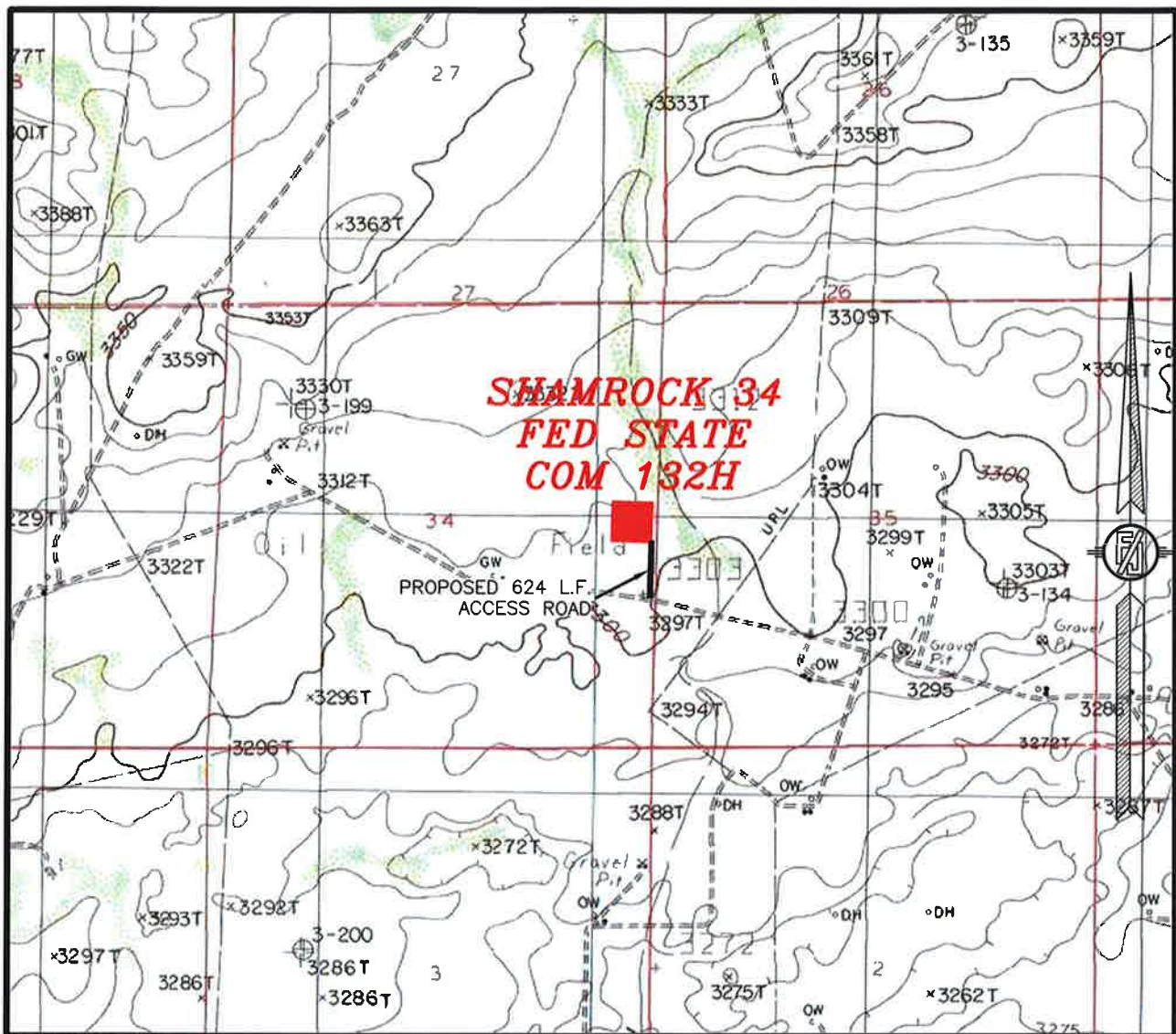
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 132H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 340 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 ANGEL DRAW

NOT TO SCALE

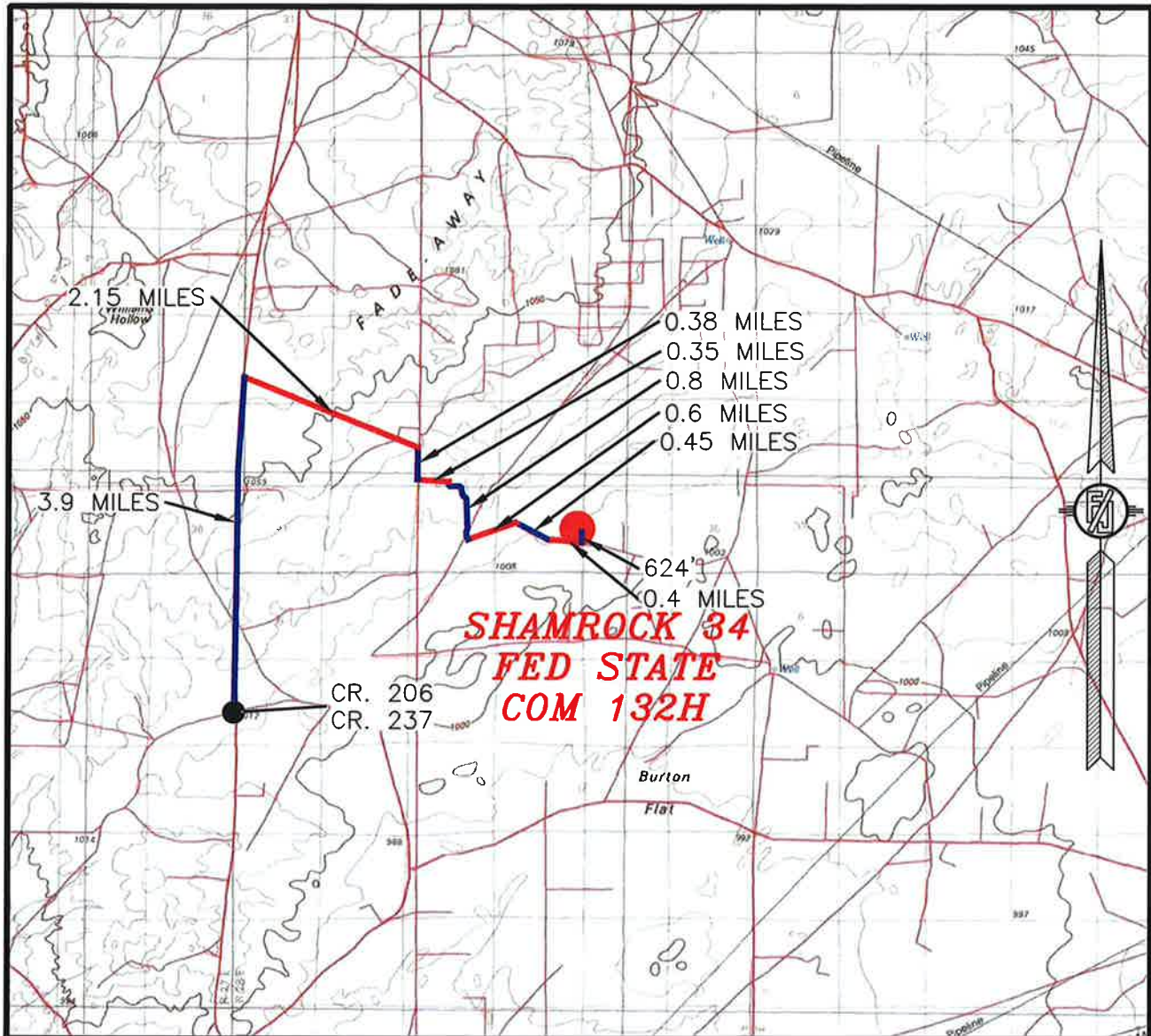
COLGATE OPERATING, LLC
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 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 AND CR. 237 GO NORTH ON CR. 206 3.9 MILES, TURN RIGHT AND GO SOUTHEAST 2.15 MILES, TURN RIGHT AND GO SOUTH 0.38 MILES, TURN LEFT AND GO EAST 0.35 MILES, TURN RIGHT AND GO SOUTH AND EAST 0.8 MILES, TURN LEFT AND GO NORTHEAST 0.6 MILES, BEND RIGHT AND GO SOUTHEAST 0.45 MILES, BEND LEFT AND GO 0.4 MILES TO A ROAD SURVEY AND FOLLOW FLAGS NORTH 624' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 132H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 340 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

SURVEY NO. 7986
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

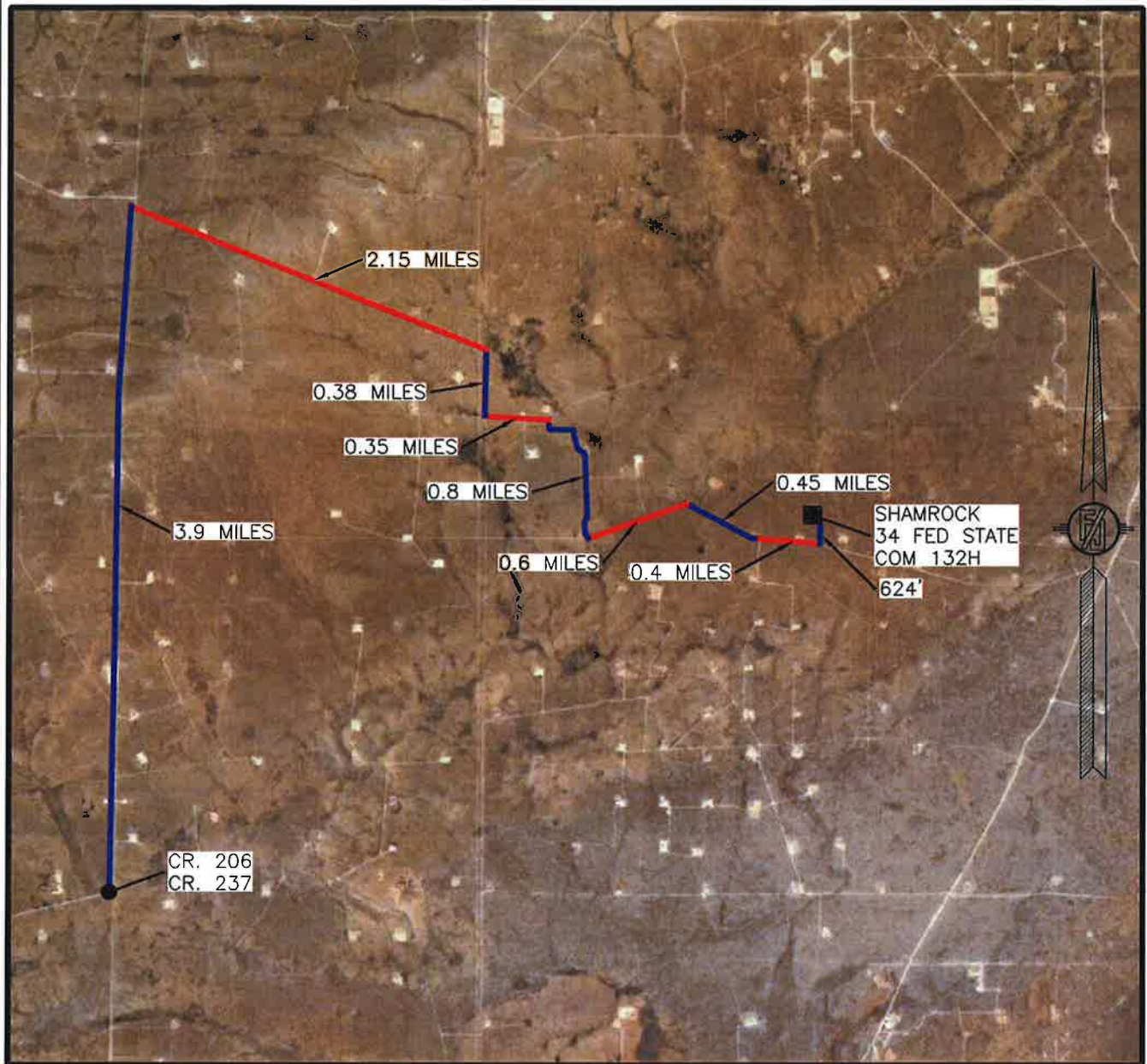
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 132H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 340 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

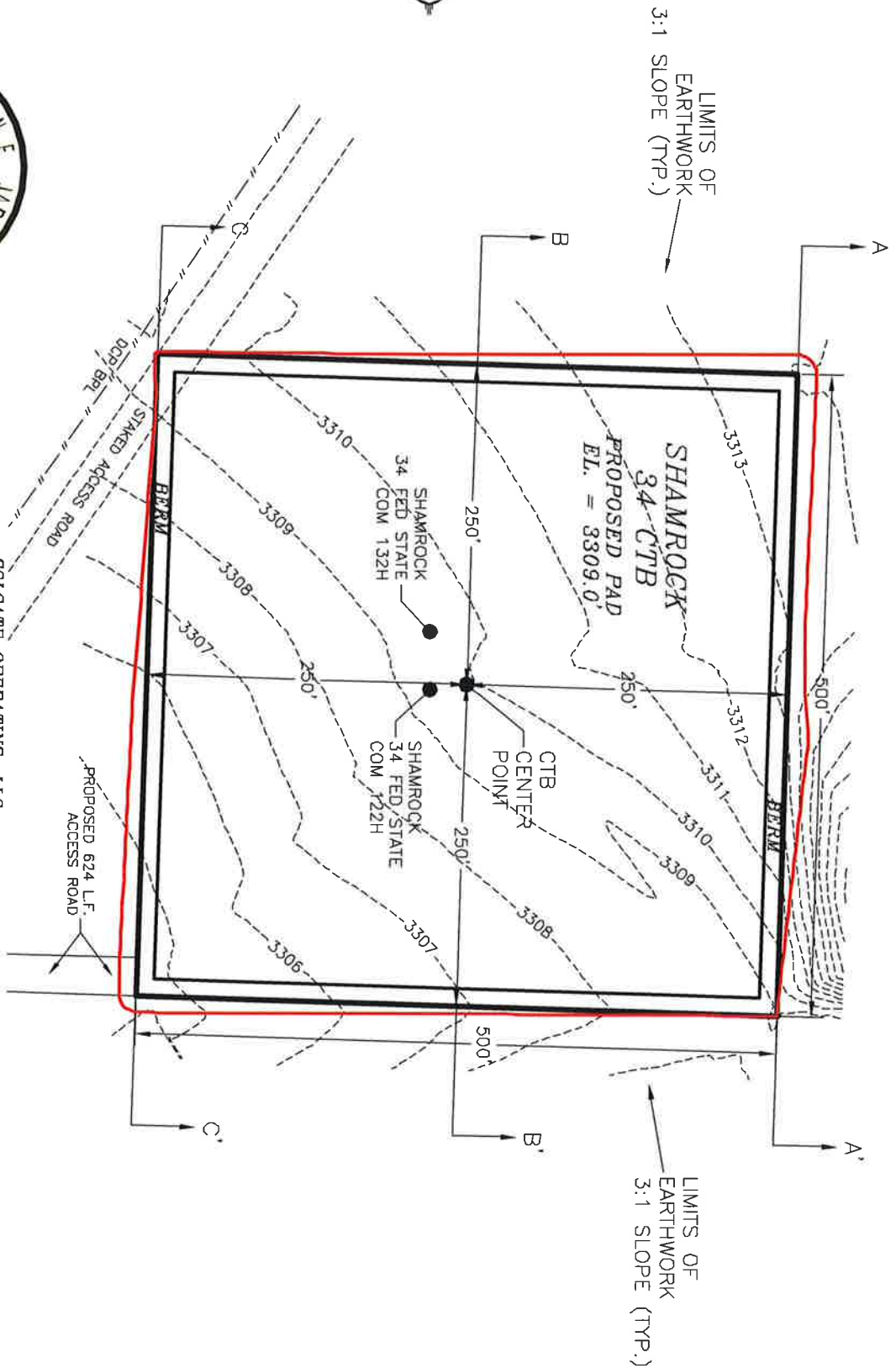
COLGATE OPERATING, LLC
SHAMROCK 34 FED STATE COM 132H
LOCATED 2610 FT. FROM THE SOUTH LINE
AND 340 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILMON F. JARAMILA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 1229, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEF. THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR SHAMROCK 34 FED STATE COM 132H
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

301 SOUTH CANAL
(505) 234-3341 CARLSBAD, NEW MEXICO

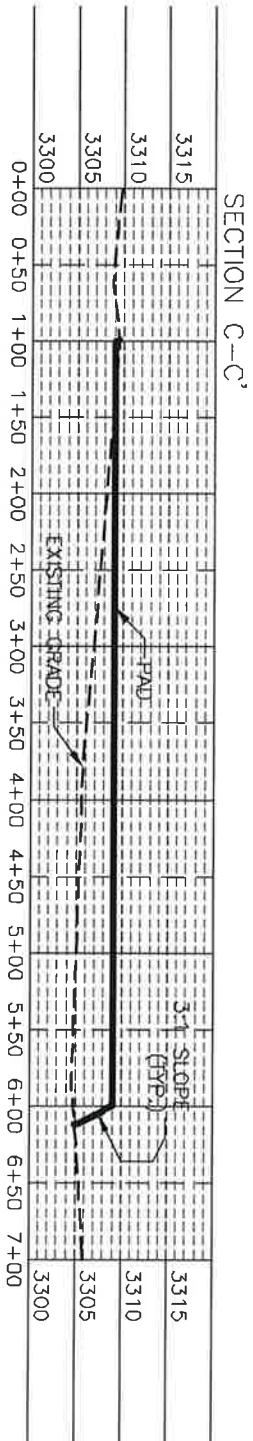
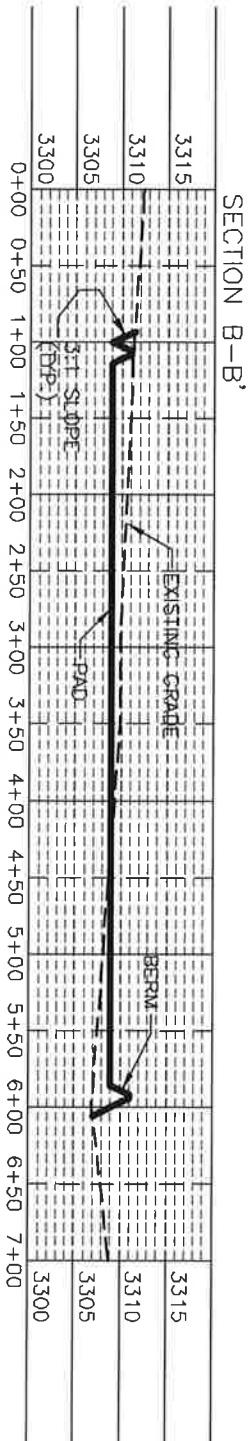
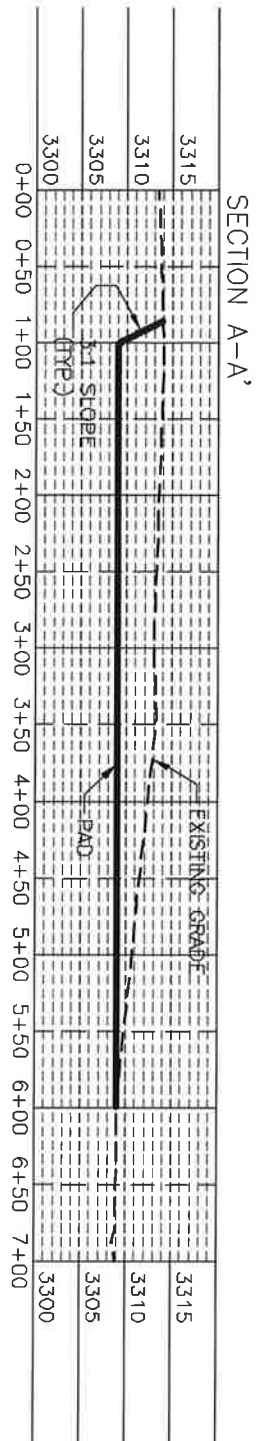
SHEET 1-2
SURVEY NO. 7986

CUT	FILL	NET
10119 CU. YD	7312 CU. YD	2807 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED



CROSS-SECTIONS



I, FILMON F. JARAMA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12291, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEF, AND I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE SURVEY. THE SURVEY STANDARDS FOR THIS SURVEY ARE AS SET FORTH IN THE NEW MEXICO SURVEYING ACT.

COLGATE OPERATING, LLC
 PAD GRADING AND CROSS SECTIONS
 FOR SHAMROCK 34 FED STATE COM 132H
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

012 60 120 240
 SCALE 1" = 120' - 1" = 20' VER

CUT	FILL	NET
10119 CU. YD	7312 CU. YD	2807 CU. YD (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED

FEBRUARY 17, 2020
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO

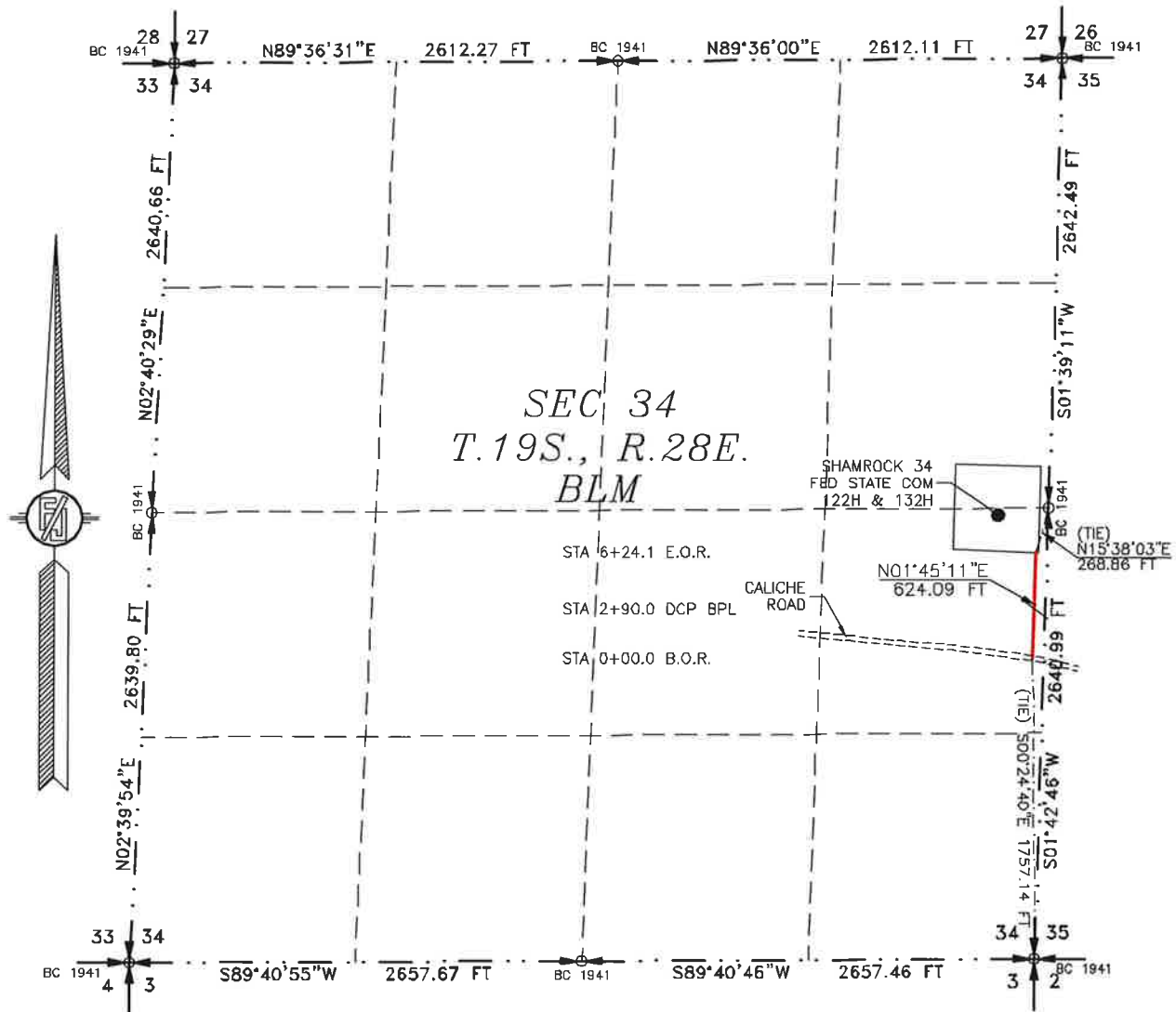
SHEET 2-2
 SURVEY NO. 7986

ACCESS ROAD PLAT

ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 122H & 132H

COLGATE OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 17, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. (575) 234-3341 CARLSBAD, NEW MEXICO

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 17th DAY OF FEBRUARY 2020

FILMON F. JARAMILLO, PLS. 12797
301 SOUTH CANAL
(575) 234-3341

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7986

ACCESS ROAD PLAT

ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 122H & 132H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 17, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S00°24'40"E, A DISTANCE OF 1757.14 FEET;
THENCE N01°45'11"E A DISTANCE OF 624.09 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N15°38'03"E, A DISTANCE OF 268.86 FEET;

SAID STRIP OF LAND BEING 624.09 FEET OR 37.82 RODS IN LENGTH, CONTAINING 0.430 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 624.09 L.F. 37.82 RODS 0.430 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 17th DAY OF FEBRUARY 2020

FILIMON F. JARAMILLO, PLS. 12797
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
(575) 234-3341

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7986

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

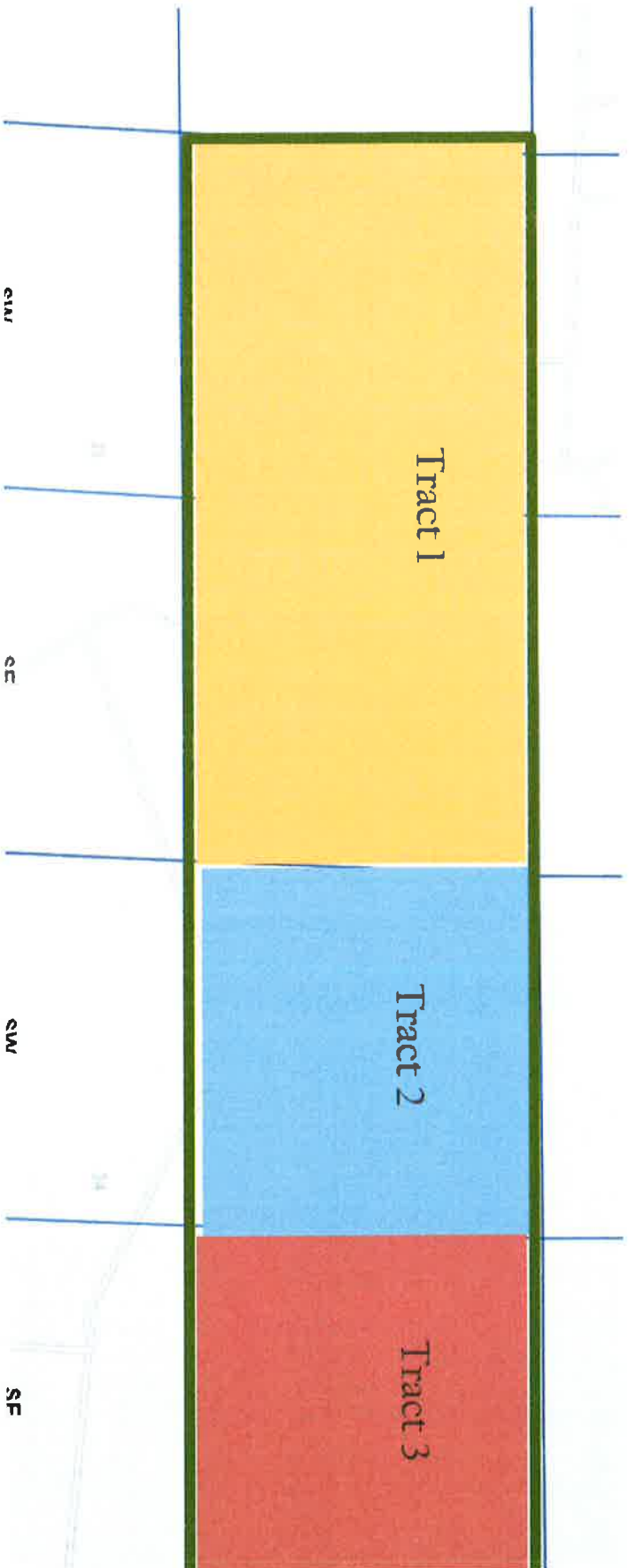
SHEET: 2-2

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

WI OWNER	TRACT	NET	WI	FORCE POOL INTEREST
Colgate Production, LLC	1, 2, & 3	122.578	19.153%	Operator
CM Resources, LLC	2, 3	14.1131	2.205%	No
EOG Resources	1	319	49.844%	Yes
Crown Oil Partners VI, LLC	2	5	0.781%	Yes
Crumpp Energy Partners III, LLC	2	5	0.781%	Yes
OXY USA WTP Limited Partnership	2, 3	135.11	21.111%	Yes
Myrlene Mannschreck Dillon	2, 3	8.7488	1.367%	Yes
Geoffrey Lanceley	2	0.1853	0.029%	Yes
Magnum Hunter Production, Inc.	2	6.8042	1.063%	Yes
John C. Rocovich, Jr, et ux	2	0.225	0.035%	Yes
Paul Umbarger, et ux	2	1.14075	0.178%	Yes
J.W. Davis	2	2.14987	0.336%	Yes
Current Trustee Under Declaration of Trust dated August 28, 1982, executed by Alice G. Davis	2	2.14988	0.336%	Yes
Galkay	2	0.74588	0.117%	Yes
Olin Garrett, et ux	2	0.13163	0.021%	Yes

Nelson & Co., for the Benefit of John D. Wile Marital Trust	2	0.0959	0.015%	Yes
Wildcat Energy, LLC	2	0.44702	0.070%	Yes
Hodge Natural Gas Gathering, Inc.	2	0.06394	0.010%	Yes
Mary L. Kline	2, 3	0.14918	0.023%	Yes
Robert G. Ettleson	2, 3	0.14918	0.023%	Yes
William L. Hillard	2	0.12786	0.020%	Yes
John R. Kline	2	0.22378	0.035%	Yes
Gerald L. Michaud	2	0.12786	0.020%	Yes
Ted J. Werts	2	0.06394	0.010%	Yes
Intrepid Energy, Ltd.	2	3.08486	0.482%	Yes
Douglas C. Crammer and Russell B. Crammer, Trustees of Russell E. Crammer, Irrevocable Trust dated December 28, 1992	2, 3	0.27706	0.043%	Yes
HCH Investments, LLC	3	0.08133	0.013%	Yes
C5 Capital Management	3	0.08133	0.013%	Yes
Duer Wagner, III	3	0.6036	0.094%	Yes
Russel Crammer	3	0.08525	0.013%	Yes

Douglas Crammer	3	0.08525	0.013%	Yes
Elizabeth Tullis Dillard	3	10	1.563%	Yes
Catherine E. Huffman	2	0.08333	0.013%	Yes
Bill Ferguson	2	0.51149	0.080%	Yes
Robert H. Krieble et ux	2	0.22376	0.035%	Yes
Sombrero Associates	2	0.22378	0.035%	Yes
Katherin Ferguson	3	0.12789	0.020%	Yes



Communication Timeline

November 4, 2019 – Initial proposals sent for the Dawson 34 Fed Com 133H, 134H, 123, and 142H

October/November, 2019 – Numerous emails and phone calls with Crown/Crump about acquiring their acreage, including cash offers. Formal offers never received a final response from Crown/Crump. They have also not submitted and election or signed an OA.

November 2019 to February 2020 – Extensive email discussion with Abbejane White Bates, Krista Stephenson, and JM Bryan regarding development plans and timing. No election or decision to sell provided by them.

January 2020 – Following a request for offer to purchase, made offers to purchase to HCH, C5, and Huffman. Indicated they will likely participate. Attempted to purchase Waddill's and B&H Royalty; however, title issues have delayed/prevented closing to date.

January/February, 2020 – Michaud communicated intent to participate in the wells but has not sent back elections or signed a JOA.

February-May, 2020 – Continued discussions with Crown/Crump regarding respective plans, no final election received.

November 2019-Present – Received and returned a number of phone calls from WI owners. Provided requested data and informed them of their options. At present a number of these parties have not responded with their preferred course of action.

May 2020 – Continuing to work trade options with Magnum Hunter. Not finalized at this time nor have they returned their elections.

November 2019 to May 2020 – Numerous conversations with OXY regarding participation, sale, or trade. Oxy is currently still reviewing a number of options. In the meantime, OXY has agreed to withdraw any protest and allow Colgate to proceed forward as operator of the wells.

May 20, 2020 – As of this date a number of the parties have not been locatable following exhaustive attempts to locate good addresses, have not responded to the notices or have not provided follow up decisions regarding their intent to sell or participate. Outside of Oxy the other larger WI owners have not responded to discussions on these wells. Trade attempts were made with COG; however, good faith negotiations have stalled and no viable trade is currently available.

WI OWNER	TRACT	NET	WI	FORCE POOL INTEREST
Colgate Production, LLC	1, 2, & 3	133.578	20.872%	Operator
CM Resources, LLC	2, 3	13.0849	2.045%	No
Crown Oil Partners VI, LLC	2	5	0.781%	Yes
Crumpp Energy Partners III, LLC	2	5	0.781%	Yes
OXY USA WTP Limited Partnership	1, 2, 3	179.85	28.102%	Yes
Myrlene Mannschreck Dillon	2, 3	7.4988	1.172%	Yes
Geoffrey Lanceley	2	0.14219	0.022%	Yes
Magnum Hunter Production, Inc.	2	6.8042	1.063%	Yes
John C. Rocovich, Jr, et ux	2	0.225	0.035%	Yes
Paul Umbarger, et ux	2	1.14075	0.178%	Yes
J.W. Davis	2	2.14987	0.336%	Yes
Current Trustee Under Declaration of Trust dated August 28, 1982, executed by Alice G. Davis	2	2.14988	0.336%	Yes
Galkay	2	0.74588	0.117%	Yes
Olin Garrett, et ux	2	0.13163	0.021%	Yes
Nelson & Co., for the Benefit of John D. Wile Marital Trust	2	0.0959	0.015%	Yes

Wildcat Energy, LLC	2	0.44702	0.070%		Yes
Hodge Natural Gas Gathering, Inc.	2	0.06394	0.010%		Yes
Mary L. Kline	2, 3	0.12787	0.020%		Yes
Robert G. Ettleson	2, 3	0.12787	0.020%		Yes
William L. Hillard	2	0.12786	0.020%		Yes
John R. Kline	2	0.22378	0.035%		Yes
Gerald L. Michaud	2	0.12786	0.020%		Yes
Ted J. Werts	2	0.06394	0.010%		Yes
Intrepid Energy, Ltd.	2	3.08486	0.482%		Yes
Douglas C. Crammer and Russell B. Crammer, Trustees of Russell E. Crammer, Irrevocable Trust dated December 28, 1992	2	0.19181	0.030%		Yes
Douglas C. Crammer and Russell B. Crammer, Trustees of Russell E. Crammer, Irrevocable Trust dated December 28, 1992	3	0.08525	0.013%		Yes
HCH Investments, LLC	3	0.061	0.010%		Yes
C5 Capital Management	3	0.061	0.010%		Yes
Duer Wagner, III	3	0.6036	0.094%		Yes

Russel Crammer	3	0.08525	0.013%	Yes
Douglas Crammer	3	0.08525	0.013%	Yes
Elizabeth Tullis Dillard	3	10	1.563%	Yes
Catherine E. Huffman	3	0.0625	0.010%	Yes
Bill Ferguson	2	0.51149	0.080%	Yes
Robert H. Kriebel et ux	2	0.22376	0.035%	Yes
Sombrero Associates	2	0.19181	0.030%	Yes
Katherine Ferguson	3	3.53781	0.553%	Yes
Robert K. Hillin	3	5	0.781%	Yes
Raquel Womack	3	0.02131	0.003%	Yes
ZPZ Delaware I LLC	1	102	15.938%	Yes
COG Operating	1	76	11.875%	Yes
Adene Sealy	1	1.25	0.195%	Yes
Abbejane Masterson Bates	1	1.25002	0.195%	Yes
Oxford Consulting	1	0.03931	0.006%	Yes
B&H Royalty	1	1.25002	0.195%	Yes
Barbara Doak	1	2.5	0.391%	Yes

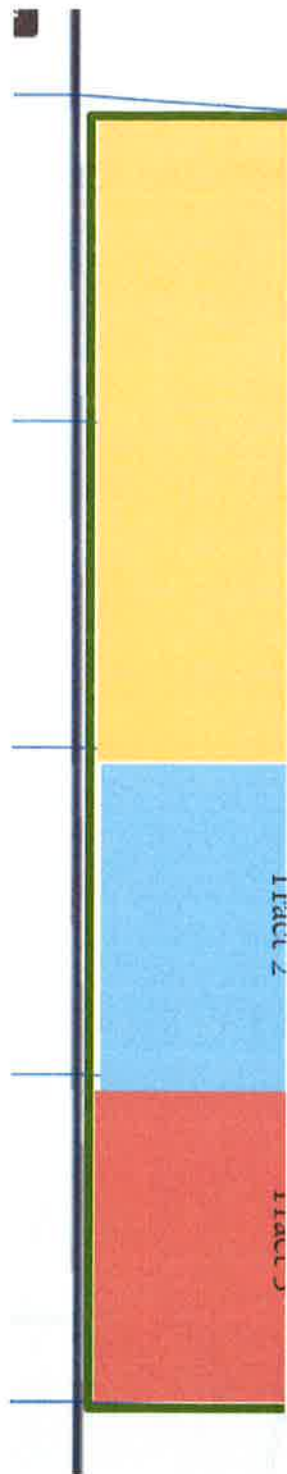
Barbara Brown Egbert	1	2.55	0.398%		Yes
Becky Ruth Welch Kitto	1	0.10417	0.016%		Yes
Bill Ferguson	2,3	1.02298	0.160%		Yes
Billy O Waddill	1	1.25002	0.195%		Yes
Heirs of T. Welch (Bryan Welch)	1	0.10417	0.016%		Yes
Heirs of Thomas F. Welch	1	0.10417	0.016%		Yes
Heirs of James Welch	1	0.10417	0.016%		Yes
Heirs of Byrl W. Harris	1	2.55896	0.400%		Yes
Charles Eugene Cooper & DeAnn Hutson	1	2.55896	0.400%		Yes
Cheron Oil & Gas Co.	1	2.03125	0.317%		Yes
Clinton H. Dean Jr.	1	0.05241	0.008%		Yes
COG Oil & Gas LP	1	2.55	0.398%		Yes
Dale Wade Emmert	1	0.03125	0.005%		Yes
Heirs of Martin T. Hart et ux	1	0.07862	0.012%		Yes
Dorsar Investment Company	1	0.11792	0.018%		Yes
William Hilliard	2	0.25571	0.040%		Yes

Unknown Heirs of M. G. MacNeill	1	5	0.781%	Yes
Edna Louise Miller	1	0.07862	0.012%	Yes
Wildcat Energy, LLC	2,3	0.89404	0.140%	Yes
Heirs of Edward J. Brown	1	2.503	0.391%	Yes
Egbert Living Trust	1	2.55896	0.400%	Yes
Heirs of Fred Hansen	1	2.55896	0.400%	Yes
Gemmill Family Trust	1	1.25002	0.195%	Yes
Heirs of Homer L. Wedig	1	0.03931	0.006%	Yes
International Petroleum Corporation	1	1.25	0.195%	Yes
J. Darlene Kline	1	0.44755	0.070%	Yes
Janet E. Cowan	1	0.03931	0.006%	Yes
JCJ Investments, LLC	1	1.45507	0.227%	Yes
Unknown heirs of John T. Olive	1	0.07862	0.012%	Yes
Unknown heirs of Mallory Miller	1	0.07862	0.012%	Yes
John Duane Waddill	1	1.25002	0.195%	Yes
Krista Alicen Stephenson	1	1.25	0.195%	Yes
Heirs of Margaret A. Avery	1	0.11793	0.018%	Yes

Pamela A. Davis	2	4.29952	0.672%		Yes
Peggy Runyan	1	5	0.781%		Yes
Unknown Heirs of John Ponsford	1	0.07862	0.012%		
EnPlat III, LLC	1	0.03125	0.005%		Yes
Heirs of Richard Pruett	1	2.5	0.391%		Yes
Platform Energy III	1	0.125	0.020%		Yes
Pregler Oil Company LLC	1	0.46875	0.073%		Yes
Heirs of Ruby Castle	1	0.15625	0.024%		Yes
Robert Ettelson	2	0.12787	0.020%		Yes
Unknown heirs of Richard Pruett	1	2.5	0.391%		Yes
Togiak Resources, LLC	1	0.625	0.098%		Yes
Heirs of Galen Egbert	1	1.26965	0.198%		Yes
Teryl D. Meyers	1	0.07862	0.012%		Yes
Unknown heirs of Carroll T. Hutchens	1	2.5	0.391%		Yes
Thomas F. Meaders	1	5	0.781%		Yes
Tularosa Oil Company	1	0.625	0.098%		Yes

Heirs of V. Burfend p/k/a Vernon Burfend	1	1.25	0.195%	Yes
Heirs of Richard and Lorraine Vance	1	0.07862	0.012%	Yes
Virginia B. Dean, et al	1	2.30048	0.359%	Yes
Virginia D. Kriz-Neeson, Successor to MC Neesen	1	0.07862	0.012%	Yes
Five J's Plus L, Inc	1	2.5	0.391%	Yes
Heirs of RF Haynesworth	1	0.768	0.120%	Yes
L & J Cohen, Inc	1	2.55896	0.400%	Yes
Gene Wood Joint Venture Acct	1	0.30267	0.047%	Yes
JM Bryan Oil, LLC	1	1.45507	0.227%	Yes

NW	NE	NW	NE
Tract 1	Tract 2	Tract 3	



Communication Timeline

November 1, 2019 – Initial proposals sent for the Shamrock 34 Fed Com 131H, 132H, 121, and 122H

December 11, 2019 – Updated proposals sent for the Shamrock 34 Fed Com 131H, 132H, 121, and 122H

November/December, 2019 – A number of proposals were returned undeliverable. Researched and updated address delivery list. Additionally, technical team made adjustments to the well plans which necessitate an updated proposal to be sent out in December.

October/November, 2019 – Numerous emails and phone calls with Crown/Crump about acquiring their acreage, including cash offers. Formal offers never received a final response from Crown/Crump. They have also not submitted and election or signed an OA.

January 2020 – Following a request for offer to purchase, made offers to purchase to HCH, C5, and Huffman. No further response once offers sent.

January/February, 2020 – Michaud communicated intent to participate in the wells but has not sent back elections or signed a JOA.

February-May, 2020 – Continued discussions with Crown/Crump regarding respective plans, no final election received.

January-May 2020 – Various trade and cash acquisition discussions with Oxy. Oxy plans to participate under the order in the event no cash or trade deal materializes.

November 2019-Present – Received and returned a number of phone calls from WI owners. Provided requested data and informed them of their options. At present a number of these parties have not responded with their preferred course of action.

May 2020 – Continuing to work trade options with Magnum Hunter. Not finalized at this time nor have they returned their elections.

December 2019 to May 2020 – EOG and Colgate are finalizing a deal for Colgate to acquire EOG's interest in these lands.

May 20, 2020 – As of this date a number of the parties have not been locatable following exhaustive attempts to locate good addresses, have not responded to the notices or have not provided follow up decisions regarding their intent to sell or participate.



Via Certified Mail

November 4, 2019

Robert F. Haynsworth
6318 Turney Way
Dallas, TX 75230

RE: Dawson 34 Fed Com Well Proposals
S/2 of Section 33 and the S/2 of Section 34 T19S-28E, Bone Spring Formation
Eddy County, New Mexico

Colgate Production, LLC ("Colgate"), hereby proposes the drilling of eight (8) wells, the Dawson 34 Fed Com 123H, 124H, 133H and 134H at the following locations:

Dawson 34 Fed Com 123H
SHL: 1270' FSL and 300' FEL of Section 34-19S-28E
BHL: 1910' FSL and 100' FWL of Section 33-19S-38E
TVD: 7,455'
TMD: 17,209'
Targeted Interval: 2nd Bone Spring
Total Cost: See AFE

Dawson 34 Fed Com 124H
SHL: 1270' FSL and 300' FEL of Section 34-19S-28E
BHL: 550' FSL and 100' FWL of Section 33-19S-38E
TVD: 7,455'
TMD: 17,209'
Targeted Interval: 2nd Bone Spring
Total Cost: See AFE

Dawson 34 Fed Com 133H
SHL: 1270' FSL and 300' FEL of Section 34-19S-28E
BHL: 1790' FSL and 100' FWL of Section 33-19S-38E
TVD: 8,630'
TMD: 18,384'
Targeted Interval: 3rd Bone Spring
Total Cost: See AFE

Dawson 34 Fed Com 134H
SHL: 1270' FSL and 300' FEL of Section 34-19S-28E
BHL: 430' FSL and 100' FWL of Section 33-19S-38E
TVD: 8,660'
TMD: 18,414'
Targeted Interval: 3rd Bone Spring
Total Cost: See AFE



The locations and targets are approximate and subject to change depending on surface or subsurface issues encountered. Colgate is proposing to drill these wells under the modified terms of the 1989 AAPL Operating Agreement and a form of said Operating Agreement will be forwarded to you following your receipt of this proposal. The Operating Agreement will have the following general provisions:

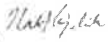
- 100%/300%/300% non-consent provisions
- \$8,000/\$800 drilling and producing rates
- Colgate Operating, LLC named as Operator

Please indicate your election to participate in the drilling and completion of the proposed wells in the space provided below. Please sign and return one copy of this letter, a signed copy of the enclosed AFE, and your geologic well requirements.

Colgate will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well, should we not reach an agreement within 30 days of the date of this letter. If you do not wish to participate Colgate would be interested in acquiring your interest in the subject lands.

If you have any questions regarding this matter, please give me a call at 432-257-3886 or via email at mhajdik@colgateenergy.com.

Sincerely,



Mark Hajdik
Senior Landman

MH
Enclosures

Well Elections

_____ I/We hereby elect to participate in the Dawson 34 Fed Com 123H.
_____ I/We hereby elect NOT to participate in the Dawson 34 Fed Com 123H.

_____ I/We hereby elect to participate in the Dawson 34 Fed Com 124H.
_____ I/We hereby elect NOT to participate in the Dawson 34 Fed Com 124H.

_____ I/We hereby elect to participate in the Dawson 34 Fed Com 133H.
_____ I/We hereby elect NOT to participate in the Dawson 34 Fed Com 133H.

_____ I/We hereby elect to participate in the Dawson 34 Fed Com 134H.
_____ I/We hereby elect NOT to participate in the Dawson 34 Fed Com 134H.



Via Certified Mail

December 11, 2019

Kenneth R. Dean and Peggy J. Dean
80 Shiloh Road
Odessa, Texas 79762-8415

RE: Shamrock 34 Fed Com Well Proposals
The N/2 of Sections 33 & 34 T19S-28E, Bone Spring Formation
Eddy County, New Mexico

Colgate Production, LLC ("Colgate"), hereby proposes the drilling of four (4) wells, the Shamrock 34 Fed Com 121H, 122H, 131H, and 132H at the following locations:

Shamrock 34 Fed Com 121H
SHL: 660' FNL and 300' FWL of Section 34-19S-28E
BHL: 990' FNL and 100' FWL of Section 33-19S-28E
TVD: 7,455'
TMD: 17,209'
Targeted Interval: 2nd Bone Spring
Total Cost: See AFE

Shamrock 34 Fed Com 122H
SHL: 1680' FNL and 400' FWL of Section 34-19S-28E
BHL: 2310' FNL and 100' FWL of Section 33-19S-28E
TVD: 7,445'
TMD: 17,209'
Targeted Interval: 2nd Bone Spring
Total Cost: See AFE

Shamrock 34 Fed Com 131H
SHL: 660' FNL and 300' FWL of Section 34-19S-28E
BHL: 890' FNL and 100' FWL of Section 33-19S-28E
TVD: 8,620'
TMD: 18,374'
Targeted Interval: 3rd Bone Spring
Total Cost: See AFE

Shamrock 34 Fed Com 132H
SHL: 1680' FNL and 400' FWL of Section 34-19S-28E
BHL: 2210' FNL and 100' FWL of Section 33-19S-28E
TVD: 8,620'
TMD: 18,374'
Targeted Interval: 3rd Bone Spring
Total Cost: See AFE



The locations and targets are approximate and subject to change depending on surface or subsurface issues encountered. Colgate is proposing to drill these wells under the modified terms of the 1989 AAPL Operating Agreement and a form of said Operating Agreement will be forwarded to you following your receipt of this proposal. The Operating Agreement will have the following general provisions:


- 100%/300%/300% non-consent provisions
- \$8,000/\$800 drilling and producing rates
- Colgate Operating, LLC named as Operator

Please indicate your election to participate in the drilling and completion of the proposed wells in the space provided below. Please sign and return one copy of this letter, a signed copy of the enclosed AFE, and your geologic well requirements.

Colgate will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well, should we not reach an agreement within 30 days of the date of this letter. If you do not wish to participate Colgate would be interested in acquiring your interest in the subject lands.

If you have any questions regarding this matter, please give me a call at 432-257-3886 or via email at mhajdik@colgateenergy.com.

Sincerely,



Mark Hajdik
Senior Landman

MH
Enclosures

Well Elections

_____ I/We hereby elect to participate in the Shamrock 34 Fed Com 121H.
_____ I/We hereby elect NOT to participate in the Shamrock 34 Fed Com 121H.

_____ I/We hereby elect to participate in the Shamrock 34 Fed Com 122H.
_____ I/We hereby elect NOT to participate in the Shamrock 34 Fed Com 122H.

_____ I/We hereby elect to participate in the Shamrock 34 Fed Com 131H.
_____ I/We hereby elect NOT to participate in the Shamrock 34 Fed Com 131H.

_____ I/We hereby elect to participate in the Shamrock 34 Fed Com 132H.
_____ I/We hereby elect NOT to participate in the Shamrock 34 Fed Com 132H.

Kenneth R. Dean and Peggy J. Dean
80 Shiloh Road
Odessa, Texas 79762-8415

Colgate Energy

303 W. Wall St., Midland TX 79701
Phone (432) 695-4257 • Fax (432) 695-4063

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	11/1/2019	AFE NO.:	0
WELL NAME:	Dawson 34 Fed Com 123H	FIELD:	0
LOCATION:	NM	MD/TVD:	17209 / 7455
COUNTY/STATE:	Eddy	LATERAL LENGTH:	9,427
Colgate WI:		DRILLING DAYS:	29
GEOLOGIC TARGET:	2nd Bone Spring	COMPLETION DAYS:	17

REMARKS: Drill and Complete 63 stages in the 2nd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

INTANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
1 Land / Legal / Regulatory	\$ 35,000	\$ -	\$ -	\$ 35,000
2 Location, Surveys & Damages	220,000	13,000	4,000	237,000
4 Freight / Transportation	25,000	53,250	-	78,250
5 Rental - Surface Equipment	103,721	207,600	12,000	323,321
6 Rental - Downhole Equipment	129,831	50,000	-	179,831
7 Rental - Living Quarters	57,238	44,900	10,000	112,138
10 Directional Drilling, Surveys	286,100	-	-	286,100
11 Drilling	812,587	-	-	812,587
12 Drill Bits	105,000	-	-	105,000
13 Fuel & Power	167,475	472,500	-	639,975
14 Cementing & Float Equip	180,000	-	-	180,000
16 Perforating, Wireline, Slickline	-	459,100	20,000	479,100
17 High Pressure Pump Truck	-	10,000	-	10,000
18 Completion Unit, Swab, C1U	-	70,000	16,500	86,500
20 Mud Circulation System	86,730	-	-	86,730
21 Mud Logging	23,100	-	-	23,100
22 Logging / Formation Evaluation	14,450	8,000	-	22,450
23 Mud & Chemicals	272,097	444,100	-	716,197
24 Water	25,500	804,744	-	830,244
25 Stimulation	-	2,079,000	-	2,079,000
26 Stimulation Flowback & Disp	-	143,000	-	143,000
28 Mud / Wastewater Disposal	104,375	221,000	-	325,375
30 Rig Supervision / Engineering	128,470	84,800	8,000	221,270
32 Drlg & Completion Overhead	10,875	-	-	10,875
35 Labor	141,000	12,500	10,000	163,500
95 Insurance	30,976	-	-	30,976
97 Contingency	296,052	415,999	8,050	717,902
99 Plugging & Abandonment	-	-	-	-
TOTAL INTANGIBLES >	3,256,577	5,591,293	88,550	8,936,421
TANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	89,448	-	-	89,448
62 Drilling Liner	-	-	-	-
63 Production Casing	280,335	-	-	280,335
64 Production Liner	-	-	-	-
65 Tubing	-	-	60,648	60,648
66 Wellhead	77,000	-	75,000	152,000
67 Packers, Liner Hangers	26,000	-	-	26,000
68 Tanks	-	-	80,000	80,000
69 Production Vessels	-	-	125,000	125,000
70 Flow Lines	-	-	-	-
71 Rod string	-	-	-	-
72 Artificial Lift Equipment	-	-	95,000	95,000
73 Compressor	-	-	-	-
74 Installation Costs	-	-	67,000	67,000
75 Surface Pumps	-	-	-	-
76 Downhole Pumps	-	-	-	-
77 Measurement & Meter Installation	-	-	-	-
78 Gas Conditioning / Dehydration	-	-	-	-
79 Interconnecting Facility Piping	-	-	-	-
80 Gathering / Bulk Lines	-	-	-	-
81 Valves, Dumps, Controllers	-	-	-	-
82 Tank / Facility Containment	-	-	-	-
83 Flare Stack	-	-	-	-
84 Electrical / Grounding	-	-	-	-
85 Communications / SCADA	-	-	-	-
86 Instrumentation / Safety	-	-	-	-
TOTAL TANGIBLES >	487,816	0	502,648	990,464
TOTAL COSTS >	3,744,394	5,591,293	591,198	9,926,885

PREPARED BY Colgate Energy:

Drilling Engineer:	Rafael Madrid	
Completions Engineer:	Brady Adams	CRM
Production Engineer:	Brady Adams	

Colgate Energy APPROVAL:

Co-CEO	WH	Co-CEO	JW	VP - Operations	CRM
VP - Land & Legal	BC	VP - Geosciences	SO		

NON OPERATING PARTNER APPROVAL:

Company Name:		Working Interest (%):		Tax ID:	
Signed by:		Date:			
Title:		Approval:	<input type="checkbox"/> Yes <input type="checkbox"/> No (mark one)		

The costs on this AFE are estimates only and may be considered as estimates on any opening from up the hole and of the project. Taking operations approved under the AFE may be delayed up to a year after the well has been completed. In executing this AFE, the Participant agrees to pay the appropriate share of actual costs incurred, including but not limited to, regulatory, permitting and well costs under the terms of the applicable joint operating agreement, regulatory order or other agreement covering this well. Participants shall be deemed to have agreed to pay the appropriate share of actual costs incurred, including but not limited to, regulatory, permitting and well costs under the terms of the applicable joint operating agreement, regulatory order or other agreement covering this well. Participants shall be deemed to have agreed to pay the appropriate share of actual costs incurred, including but not limited to, regulatory, permitting and well costs under the terms of the applicable joint operating agreement, regulatory order or other agreement covering this well.



Colgate Energy

303 W. Wall St., Midland TX 79701
Phone (432) 695-4257 • Fax (432) 695-4063

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	11/1/2019	AFE NO.:	0
WELL NAME:	Dawson 34 Fed Com 124H	FIELD:	0
LOCATION:	NM	MD/TVD:	17309 / 7455
COUNTY/STATE:	Eddy	LATERAL LENGTH:	9,427
Colgate WI:		DRILLING DAYS:	29
GEOLOGIC TARGET:	2nd Bone Spring	COMPLETION DAYS:	17

REMARKS: Drill and Complete 63 stages in the 2nd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

INTANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
1 Land / Legal / Regulatory	\$ 35,000	\$ -	\$ -	\$ 35,000
2 Location, Surveys & Damages	220,000	13,000	4,000	237,000
4 Freight / Transportation	25,000	53,250	-	78,250
5 Rental - Surface Equipment	103,721	207,600	12,000	323,321
6 Rental - Downhole Equipment	129,831	50,000	-	179,831
7 Rental - Living Quarters	57,238	44,900	10,000	112,138
10 Directional Drilling, Surveys	286,100	-	-	286,100
11 Drilling	812,587	-	-	812,587
12 Drill Bits	106,000	-	-	106,000
13 Fuel & Power	167,475	472,500	-	639,975
14 Cementing & Float Equip	180,000	-	-	180,000
16 Perforating, Wireline, Slickline	-	459,100	20,000	479,100
17 High Pressure Pump Truck	-	10,000	-	10,000
18 Completion Unit, Swab, CTU	-	70,000	16,500	86,500
20 Mud Circulation System	86,730	-	-	86,730
21 Mud Logging	23,100	-	-	23,100
22 Logging / Formation Evaluation	14,450	8,000	-	22,450
23 Mud & Chemicals	272,097	444,100	-	716,197
24 Water	25,500	804,744	-	830,244
25 Stimulation	-	2,079,000	-	2,079,000
26 Stimulation Flowback & Disp	-	143,000	-	143,000
28 Mud / Wastewater Disposal	104,375	221,000	-	325,375
30 Rig Supervision / Engineering	128,470	84,800	8,000	221,270
32 Drilg & Completion Overhead	10,875	-	-	10,875
35 Labor	141,000	12,500	10,000	163,500
95 Insurance	30,976	-	-	30,976
97 Contingency	296,052	413,799	8,050	717,902
99 Plugging & Abandonment	-	-	-	-
TOTAL INTANGIBLES >	3,256,577	5,591,293	88,550	8,936,421

TANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	89,448	-	-	89,448
62 Drilling Liner	-	-	-	-
63 Production Casing	280,335	-	-	280,335
64 Production Liner	-	-	-	-
65 Tubing	-	-	60,648	60,648
66 Wellhead	77,000	-	75,000	152,000
67 Packers, Liner Hangers	26,000	-	-	26,000
68 Tanks	-	-	80,000	80,000
69 Production Vessels	-	-	125,000	125,000
70 Flow Lines	-	-	-	-
71 Rod string	-	-	-	-
72 Artificial Lift Equipment	-	-	95,000	95,000
73 Compressor	-	-	-	-
74 Installation Costs	-	-	67,000	67,000
75 Surface Pumps	-	-	-	-
76 Downhole Pumps	-	-	-	-
77 Measurement & Meter Installation	-	-	-	-
78 Gas Conditioning / Dehydration	-	-	-	-
79 Interconnecting Facility Piping	-	-	-	-
80 Gathering / Bulk Lines	-	-	-	-
81 Valves, Dumps, Controllers	-	-	-	-
82 Tank / Facility Containment	-	-	-	-
83 Flare Stack	-	-	-	-
84 Electrical / Grounding	-	-	-	-
85 Communications / SCADA	-	-	-	-
86 Instrumentation / Safety	-	-	-	-
TOTAL TANGIBLES >	467,816	0	502,648	990,464
TOTAL COSTS >	3,744,394	5,591,293	591,198	9,926,885

PREPARED BY Colgate Energy:

Drilling Engineer:	Rafael Madrid	CRM
Completions Engineer:	Brady Adams	
Production Engineer:	Brady Adams	

Colgate Energy APPROVAL:

Co-CEO	WH	Co-CEO	JW	VP - Operations	CRM
VP - Land & Legal	BC	VP - Geosciences	SO		

NON OPERATING PARTNER APPROVAL:

Company Name:	Working Interest (%):	Tax ID:
Signed by:	Date:	
Title:	Approval: <input type="checkbox"/> Yes <input type="checkbox"/> No (mark one)	

The costs on this AFE are estimates only and may not be considered as estimates or site specific costs on the field cost of the project. Following installation approved under the AFE may be different up to a year after the well has been completed. By executing this AFE, the Participant agrees to pay its proportionate share of actual costs incurred, including legal, regulatory, regulatory, land lease and well costs under the terms of the applicable joint operating agreement, regulatory order or other agreement covering this well. Participant shall be covered by and billed proportionately for Operator's well related and general liability insurance unless participant provides Operator a certificate evidencing its own insurance in an amount acceptable to the Operator for the date of approval.

Colgate Energy

303 W. Wall St., Midland TX 79701
Phone (432) 695-4257 • Fax (432) 695-4063

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	11/1/2019	AFE NO.:	0
WELL NAME:	Dawson 34 Fed Com 133H	FIELD:	0
LOCATION:	NM	MD/TVD:	18384 / 8630
COUNTY/STATE:	Eddy	LATERAL LENGTH:	9,427
Colgate WI:		DRILLING DAYS:	30
GEOLOGIC TARGET:	3rd Bone Spring	COMPLETION DAYS:	17

REMARKS: Drill and Complete 63 stages in the 3rd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

INTANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
1 Land / Legal / Regulatory	\$ 35,000	\$ -	\$ -	\$ 35,000
2 Location, Surveys & Damages	220,000	13,000	4,000	237,000
4 Freight / Transportation	25,000	53,750	-	78,750
5 Rental - Surface Equipment	106,865	209,400	12,000	328,263
6 Rental - Downhole Equipment	144,171	60,000	-	204,171
7 Rental - Living Quarters	58,788	35,700	10,000	114,488
10 Directional Drilling, Surveys	294,300	-	-	294,300
11 Drilling	835,330	-	-	835,330
12 Drill Bits	106,000	-	-	106,000
13 Fuel & Power	175,250	472,500	-	647,750
14 Cementing & Float Equip	180,000	-	-	180,000
16 Perforating, Wireline, Slickline	-	459,100	20,000	479,100
17 High Pressure Pump Truck	-	10,000	-	10,000
18 Completion Unit, Swab, CIU	-	140,000	16,500	156,500
20 Mud Circulation System	88,605	-	-	88,605
21 Mud Logging	21,810	-	-	21,810
22 Logging / Formation Evaluation	11,900	8,000	-	19,900
23 Mud & Chemicals	272,472	464,100	-	736,572
24 Water	25,500	804,744	-	830,244
25 Stimulation	-	2,079,000	-	2,079,000
26 Stimulation Flowback & Disp	-	152,000	-	152,000
28 Mud / Wastewater Disposal	104,375	221,000	-	325,375
30 Rig Supervision / Engineering	132,900	88,000	8,000	228,900
32 Drlg & Completion Overhead	11,250	-	-	11,250
35 Labor	141,000	12,500	10,000	163,500
95 Insurance	33,091	-	-	33,091
97 Contingency	302,160	425,329	8,050	735,540
99 Plugging & Abandonment	-	-	-	-
TOTAL INTANGIBLES >	3,323,765	5,718,123	88,550	9,130,439

TANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	225,348	-	-	225,348
62 Drilling Liner	-	-	-	-
63 Production Casing	299,475	-	-	299,475
64 Production Liner	-	-	-	-
65 Tubing	-	-	60,648	60,648
66 Wellhead	77,000	-	75,000	152,000
67 Packers, Liner Hangers	26,000	-	-	26,000
68 Tanks	-	-	80,000	80,000
69 Production Vessels	-	-	125,000	125,000
70 Flow Lines	-	-	-	-
71 Rod string	-	-	-	-
72 Artificial Lift Equipment	-	-	95,000	95,000
73 Compressor	-	-	-	-
74 Installation Costs	-	-	67,000	67,000
75 Surface Pumps	-	-	-	-
76 Downhole Pumps	-	-	-	-
77 Measurement & Meter Installation	-	-	-	-
78 Gas Conditioning / Dehydration	-	-	-	-
79 Interconnecting Facility Piping	-	-	-	-
80 Gathering / Bulk Lines	-	-	-	-
81 Valves, Dumps, Controllers	-	-	-	-
82 Tank / Facility Containment	-	-	-	-
83 Flare Stack	-	-	-	-
84 Electrical / Grounding	-	-	-	-
85 Communications / SCADA	-	-	-	-
86 Instrumentation / Safety	-	-	-	-
TOTAL TANGIBLES >	642,857	0	502,648	1,145,505
TOTAL COSTS >	3,966,622	5,718,123	591,198	10,275,943
	777,769,0162	1121.200667		2014.890859

PREPARED BY Colgate Energy:

Drilling Engineer:	Rafael Madrid	CRM
Completions Engineer:	Brady Adams	
Production Engineer:	Brady Adams	

Colgate Energy APPROVAL:

Co-CEO	WH	Co-CEO	JW	VP - Operations	CRM
VP - Land & Legal	BC	VP - Geosciences	SO		

NON OPERATING PARTNER APPROVAL:

Company Name:	Working Interest (%):	Tax ID:
Signed by:	Date:	
Title:	Approval: <input type="checkbox"/> Yes <input type="checkbox"/> No (mark one)	

The undersigned, after having read and understood the contents of this AFE, hereby certifies that the AFE is a true and accurate statement of the estimated costs and expenditures for the well described herein, and that the AFE is a true and accurate statement of the estimated costs and expenditures for the well described herein, and that the AFE is a true and accurate statement of the estimated costs and expenditures for the well described herein.

Phone (432) 695-4257 • Fax (432) 695-4063

REMARKS: Drill and Complete 63 stages in the 3rd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

777.9411927	1121.200667	2015.063036
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The events on this OPI are voluntary and may not be performed in reliance on any specific part of the text of this program. Nothing in this program approved under the OPI may be taken up as a reason that the well has been damaged. In executing the OPI, the Participant agrees to pay the proportional share of actual costs incurred, including legal, engineering, regulatory, brokerage and well costs under the terms of the applicable joint operating agreement, regulatory order or other agreement, including this well. Participants shall be bonded and held jointly and severally for Operator's well control and general liability insurance unless participant provides Operator with a certificate of bonding.

Colgate Energy

303 W. Wall St., Midland TX 79701
Phone (432) 695-4257 • Fax (432) 695-4063

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	11/1/2019	AFE NO.:	0
WELL NAME:	Shamrock 34 Fed Com 121H	FIELD:	0
LOCATION:	NM	MD/TVD:	17209 / 7455
COUNTY/STATE:	Eddy	LATERAL LENGTH:	9,427
Colgate WT:		DRILLING DAYS:	29
GEOLOGIC TARGET:	2nd Bone Spring	COMPLETION DAYS:	17

REMARKS: Drill and Complete 63 stages in the 2nd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

INTANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
1 Land / Legal / Regulatory	\$ 35,000	\$	\$	\$ 35,000
2 Location, Surveys & Damages	220,000	13,000	4,000	237,000
4 Freight / Transportation	25,000	53,250		78,250
5 Rental - Surface Equipment	103,721	207,600	12,000	323,321
6 Rental - Downhole Equipment	129,831	50,000		179,831
7 Rental - Living Quarters	57,238	44,900	10,000	112,138
10 Directional Drilling, Surveys	286,100			286,100
11 Drilling	812,587			812,587
12 Drill Bits	106,000			106,000
13 Fuel & Power	167,475	472,300		639,775
14 Cementing & Float Equip	180,000			180,000
16 Perforating, Wireline, Slickline	-	439,100	20,000	479,100
17 High Pressure Pump Truck	-	10,000		10,000
18 Completion Unit, Swab, CTU	-	70,000	16,500	86,500
20 Mud Circulation System	86,730			86,730
21 Mud Logging	23,100			23,100
22 Logging / Formation Evaluation	14,350	8,000		22,350
23 Mud & Chemicals	272,097	144,100		716,197
24 Water	25,500	804,744		830,244
25 Stimulation	-	2,079,000		2,079,000
26 Stimulation Flowback & Diap	-	143,000		143,000
28 Mud / Wastewater Disposal	108,375	221,000		329,375
30 Rig Supervision / Engineering	128,470	84,800	8,000	221,270
32 Drig & Completion Overhead	10,875			10,875
35 Labor	131,000	12,500	10,000	153,500
95 Insurance	30,976			30,976
97 Contingency	298,052	413,799	8,050	717,902
99 Plugging & Abandonment	-			-
TOTAL INTANGIBLES >	3,256,577	5,591,293	88,550	8,936,421
TANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
60 Surface Casing	\$ 15,034	\$	\$	\$ 15,034
61 Intermediate Casing	89,448			89,448
62 Drilling Liner	-			-
63 Production Casing	280,335			280,335
64 Production Liner	-			-
65 Tubing	-		60,648	60,648
66 Wellhead	77,000		75,000	152,000
67 Packers, Liner Hangers	26,000			26,000
68 Tanks	-		80,000	80,000
69 Production Vessels	-		125,000	125,000
70 Flow Lines	-			-
71 Rod string	-			-
72 Artificial Lift Equipment	-		95,000	95,000
73 Compressor	-			-
74 Installation Costs	-		67,000	67,000
75 Surface Pumps	-			-
76 Downhole Pumps	-			-
77 Measurement & Meter Installation	-			-
78 Gas Conditioning / Dehydration	-			-
79 Interconnecting Facility Piping	-			-
80 Gathering / Bulk Lines	-			-
81 Valves, Dumps, Controllers	-			-
82 Tank / Facility Containment	-			-
83 Flare Stack	-			-
84 Electrical / Grounding	-			-
85 Communications / SCADA	-			-
86 Instrumentation / Safety	-			-
TOTAL TANGIBLES >	487,816	0	502,648	990,464
TOTAL COSTS >	3,744,394	5,591,293	591,198	9,926,885

PREPARED BY Colgate Energy:

Drilling Engineer: Rafael Madrid
Completions Engineer: Brady Adams
Production Engineer: Brady Adams

CRM

Colgate Energy APPROVAL:

Co-CEO WH
VP - Land & Legal BC

Co-CEO JW
VP - Geosciences SO

VP - Operations CRM

NON OPERATING PARTNER APPROVAL:

Company Name: _____ Working Interest (%): _____ Tax ID: _____
Signed by: _____ Date: _____
Title: _____ Approval: ☐ Yes ☐ No (mark one)

The terms on this AFE are subject to the terms and conditions of the lease agreement and the terms of the lease agreement. The AFE may be subject to a review after the well has been completed. To receive this AFE, the Participant agrees to pay its proper share of actual costs incurred, including legal, creative, regulatory, brokerage and well costs under the terms of the applicable lease agreement, regulatory order or other agreement covering this well. Participants shall be bound by and held responsible for Operator's well control and general liability insurance within participant's lease. Operator's costs are not to be included in an amount payable to the Operator by the date of spot.

Colgate Energy

303 W. Wall St., Midland TX 79701
Phone (432) 695-4257 • Fax (432) 695-4063

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	11/1/2019	AFE NO.:	0
WELL NAME:	Shamrock 34 Fed Com 122H	FIELD:	0
LOCATION:	NM	MD/TVD:	17209 / 7455
COUNTY/STATE:	Eddy	LATERAL LENGTH:	9,427
Colgate WI:	0.00%	DRILLING DAYS:	29
GEOLOGIC TARGET:	2nd Bone Spring	COMPLETION DAYS:	17

REMARKS: Drill and Complete 63 stages in the 2nd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
INTANGIBLE COSTS				
1 Land / Legal / Regulatory	\$ 35,000	\$ -	\$ -	\$ 35,000
2 Location, Surveys & Damages	220,000	13,000	4,000	237,000
4 Freight / Transportation	25,000	33,250	-	78,250
5 Rental - Surface Equipment	103,721	207,600	12,000	323,321
6 Rental - Downhole Equipment	129,831	50,000	-	179,831
7 Rental - Living Quarters	37,238	44,900	10,000	112,138
10 Directional Drilling, Surveys	286,100	-	-	286,100
11 Drilling	812,587	-	-	812,587
12 Drill Bits	106,000	-	-	106,000
13 Fuel & Power	167,475	472,500	-	639,975
14 Cementing & Float Equip	180,000	-	-	180,000
16 Perforating, Wireline, Slickline	-	459,100	20,000	479,100
17 High Pressure Pump Truck	-	10,000	-	10,000
18 Completion Unit, Swab, CIU	-	70,000	16,500	86,500
20 Mud Circulation System	86,730	-	-	86,730
21 Mud Logging	23,100	-	-	23,100
22 Logging / Formation Evaluation	14,450	8,000	-	22,450
23 Mud & Chemicals	272,097	443,100	-	715,197
24 Water	25,500	804,744	-	830,244
25 Stimulation	-	2,079,000	-	2,079,000
26 Stimulation Flowback & Disposal	-	143,000	-	143,000
28 Mud / Wastewater Disposal	104,375	221,000	-	325,375
30 Rig Supervision / Engineering	128,470	84,800	8,000	221,270
32 Drig & Completion Overhead	10,875	-	-	10,875
35 Labor	141,000	12,500	10,000	163,500
95 Insurance	30,976	-	-	30,976
97 Contingency	296,052	413,799	8,050	717,902
99 Plugging & Abandonment	-	-	-	-
TOTAL INTANGIBLES >	3,256,577	5,591,293	88,550	8,936,421
TANGIBLE COSTS				
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	89,448	-	-	89,448
62 Drilling Liner	-	-	-	-
63 Production Casing	280,335	-	-	280,335
64 Production Liner	-	-	-	-
65 Tubing	-	-	60,618	60,618
66 Wellhead	77,000	-	75,000	152,000
67 Packers, Liner Hangers	26,000	-	-	26,000
68 Tanks	-	-	80,000	80,000
69 Production Vessels	-	-	125,000	125,000
70 Flow Lines	-	-	-	-
71 Rod string	-	-	-	-
72 Artificial Lift Equipment	-	-	95,000	95,000
73 Compressor	-	-	-	-
74 Installation Costs	-	-	67,000	67,000
75 Surface Pumps	-	-	-	-
76 Downhole Pumps	-	-	-	-
77 Measurement & Meter Installation	-	-	-	-
78 Gas Conditioning / Dehydration	-	-	-	-
79 Interconnecting Facility Piping	-	-	-	-
80 Gathering / Bulk Lines	-	-	-	-
81 Valves, Dumps, Controllers	-	-	-	-
82 Tank / Facility Containment	-	-	-	-
83 Flare Stack	-	-	-	-
84 Electrical / Grounding	-	-	-	-
85 Communications / SCADA	-	-	-	-
86 Instrumentation / Safety	-	-	-	-
TOTAL TANGIBLES >	487,816	0	502,648	990,464
TOTAL COSTS >	3,744,394	5,591,293	591,198	9,926,885

PREPARED BY Colgate Energy:

Drilling Engineer: Rafael Madrid
Completions Engineer: Brady Adams
Production Engineer: Brady Adams

CRM

Colgate Energy APPROVAL:

Co-CEO: WH
VP - Land & Legal: BC
Co-CEO: JW
VP - Geosciences: SO
VP - Operations: CRM

NON OPERATING PARTNER APPROVAL:

Company Name: _____ Working Interest (%): _____ Tax ID: _____
Signed by: _____ Date: _____
Title: _____ Approval: ☐ Yes ☐ No (mark one)

The undersigned AFE is submitted only and shall not be considered as binding on any separate form or the AFE itself. The undersigned agrees to provide the AFE may be dated up to a year after the well has been completed, or opening the AFE, the Participant agrees to its obligations under the terms of the AFE, including legal, regulatory, and other obligations under the terms of the applicable operating agreement, regulatory and other agreements covering this well. Participants shall be required to, and shall proportionately for their share, obtain and maintain liability insurance unless participant provides Operator a certificate evidencing its maintenance of an amount acceptable to the Operator by the date of sign-off.

Colgate Energy
303 W. Wall St., Midland TX 79701
Phone (432) 695-4257 • Fax (432) 695-4063

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	11/1/2019	AFE NO.:	0
WELL NAME:	Shamrock 34 Fed Com 131H	FIELD:	0
LOCATION:	NM	MD/TVD:	18374 / 8620
COUNTY/STATE:	Eddy	LATERAL LENGTH:	9,427
Colgate WT:		DRILLING DAYS:	30
GEOLOGIC TARGET:	3rd Bone Spring	COMPLETION DAYS:	17

REMARKS: Drill and Complete 63 stages in the 3rd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
INTANGIBLE COSTS				
1 Land / Legal / Regulatory	\$ 35,000	\$ -	\$ -	\$ 35,000
2 Location, Surveys & Damages	220,000	13,000	4,000	237,000
4 Freight / Transportation	25,000	53,750	-	78,750
5 Rental - Surface Equipment	106,863	209,400	12,000	328,263
6 Rental - Downhole Equipment	134,171	60,000	-	204,171
7 Rental - Living Quarters	58,788	45,700	10,000	114,488
10 Directional Drilling, Surveys	294,300	-	-	294,300
11 Drilling	835,330	-	-	835,330
12 Drill Bits	106,000	-	-	106,000
13 Fuel & Power	173,250	472,500	-	645,750
14 Cementing & Float Equip	180,000	-	-	180,000
16 Perforating, Wireline, Slickline	-	459,100	20,000	479,100
17 High Pressure Pump Truck	-	10,000	-	10,000
18 Completion Unit, Swab, CTU	-	140,000	16,500	156,500
20 Mud Circulation System	88,505	-	-	88,505
21 Mud Logging	21,810	-	-	21,810
22 Logging / Formation Evaluation	11,900	8,000	-	19,900
23 Mud & Chemicals	272,572	464,100	-	736,672
24 Water	25,500	804,744	-	830,244
25 Stimulation	-	2,079,000	-	2,079,000
26 Stimulation Flowback & Diep	-	152,000	-	152,000
28 Mud / Wastewater Disposal	104,375	221,000	-	325,375
30 Rig Supervision / Engineering	132,900	88,000	8,000	228,900
32 Drig & Completion Overhead	11,250	-	-	11,250
35 Labor	141,000	12,500	10,000	163,500
95 Insurance	33,073	-	-	33,073
97 Contingency	302,149	425,529	8,050	735,528
99 Plugging & Abandonment	-	-	-	-
TOTAL INTANGIBLES >	3,323,635	5,718,123	88,550	9,130,309
TANGIBLE COSTS				
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	225,348	-	-	225,348
62 Drilling Liner	-	-	-	-
63 Production Casing	299,312	-	-	299,312
64 Production Liner	-	-	-	-
65 Tubing	-	-	60,648	60,648
66 Wellhead	77,000	-	75,000	152,000
67 Packers, Liner Hangers	26,000	-	-	26,000
68 Tanks	-	-	80,000	80,000
69 Production Vessels	-	-	125,000	125,000
70 Flow Lines	-	-	-	-
71 Rod string	-	-	-	-
72 Artificial Lift Equipment	-	-	95,000	95,000
73 Compressor	-	-	-	-
74 Installation Costs	-	-	67,000	67,000
75 Surface Pumps	-	-	-	-
76 Downhole Pumps	-	-	-	-
77 Measurement & Meter Installation	-	-	-	-
78 Gas Conditioning / Dehydration	-	-	-	-
79 Interconnecting Facility Piping	-	-	-	-
80 Gathering / Bulk Lines	-	-	-	-
81 Valves, Dumps, Controllers	-	-	-	-
82 Tank / Facility Containment	-	-	-	-
83 Flare Stack	-	-	-	-
84 Electrical / Grounding	-	-	-	-
85 Communications / SCADA	-	-	-	-
86 Instrumentation / Safety	-	-	-	-
TOTAL TANGIBLES >	642,694	0	502,648	1,145,342
TOTAL COSTS >	3,966,329	5,718,123	591,198	10,275,651
	777.7116241	1121.200667		2014.833467

PREPARED BY Colgate Energy:

Drilling Engineer:	Rafael Madrid	
Completions Engineer:	Brady Adams	CRM
Production Engineer:	Brady Adams	

Colgate Energy APPROVAL:

Co-CEO	WH	Co-CEO	JW	VP - Operations	CRM
VP - Land & Legal	BC	VP - Geosciences	SO		

NON OPERATING PARTNER APPROVAL:

Company Name:	Working Interest (%):	Tax ID:
Signed by:	Date:	
Title:	Approval: <input type="checkbox"/> Yes <input type="checkbox"/> No (mark one)	

The costs on this AFE are estimates only and may not be identical to actual costs. Any specific costs are the responsibility of the participant. Colgate Energy agrees to reimburse the AFE costs to the participant to a maximum of 20% of the well has been completed. In returning this AFE, the Participant agrees to pay the proportionate share of actual costs incurred, including legal, creative, regulatory, technology, and well costs, under the terms of the applicable non-operating agreement, regulatory, under a sales agreement covering this well. Participants shall be covered by and holded responsibility for Operator's well control and general liability insurance unless Participant provides Operator a certificate of insurance in an amount acceptable to the Operator by the date of sign.

Colgate Energy

303 W. Wall St., Midland TX 79701
Phone (432) 695-4257 • Fax (432) 695-4063

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	11/1/2019	AFE NO.:	0
WELL NAME:	Shamrock 34 Fed Corn 132H	FIELD:	0
LOCATION:	NM	MD/TVD:	18374 / 8620
COUNTY/STATE:	Eddy	LATERAL LENGTH:	9,427
Colgate WI:		DRILLING DAYS:	30
GEOLOGIC TARGET:	3rd Bone Spring	COMPLETION DAYS:	17

REMARKS: Drill and Complete 63 stages in the 3rd Bone Spring formation. AFE includes D&C, flowback & initial ESP install.

	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
INTANGIBLE COSTS				
1 Land / Legal / Regulatory	\$ 35,000	\$ -	\$ -	\$ 35,000
2 Location, Surveys & Damages	220,000	15,000	4,000	237,000
4 Freight / Transportation	25,000	53,750	-	78,750
5 Rental - Surface Equipment	106,863	209,400	12,000	328,263
6 Rental - Downhole Equipment	144,171	60,000	-	204,171
7 Rental - Living Quarters	58,788	45,700	10,000	114,488
10 Directional Drilling, Surveys	294,300	-	-	294,300
11 Drilling	835,330	-	-	835,330
12 Drill Bits	106,000	-	-	106,000
13 Fuel & Power	173,250	472,300	-	645,550
14 Cementing & Float Equip	180,000	-	-	180,000
16 Perforating, Wireline, Slickline	-	459,100	20,000	479,100
17 High Pressure Pump Truck	-	10,000	-	10,000
18 Completion Unit, Swab, CIU	-	140,000	16,300	156,300
20 Mud Circulation System	88,605	-	-	88,605
21 Mud Logging	21,810	-	-	21,810
22 Logging / Formation Evaluation	11,900	8,000	-	19,900
23 Mud & Chemicals	272,372	164,100	-	436,472
24 Water	25,300	804,744	-	830,044
25 Stimulation	-	2,079,000	-	2,079,000
26 Stimulation Flowback & Disposal	-	152,000	-	152,000
28 Mud / Wastewater Disposal	104,375	221,000	-	325,375
30 Rig Supervision / Engineering	132,900	88,000	8,000	228,900
32 Drig & Completion Overhead	11,250	-	-	11,250
35 Labor	141,000	12,500	10,000	163,500
95 Insurance	33,073	-	-	33,073
97 Contingency	302,149	425,329	8,050	735,528
99 Plugging & Abandonment	-	-	-	-
TOTAL INTANGIBLES >	3,323,635	5,718,123	88,550	9,130,309
TANGIBLE COSTS				
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	225,348	-	-	225,348
62 Drilling Liner	-	-	-	-
63 Production Casing	299,312	-	-	299,312
64 Production Liner	-	-	-	-
65 Tubing	-	-	60,648	60,648
66 Wellhead	77,000	-	75,000	152,000
67 Packers, Liner Hangers	26,000	-	-	26,000
68 Tanks	-	-	80,000	80,000
69 Production Vessels	-	-	125,000	125,000
70 Flow Lines	-	-	-	-
71 Rod string	-	-	-	-
72 Artificial Lift Equipment	-	-	95,000	95,000
73 Compressor	-	-	-	-
74 Installation Costs	-	-	67,000	67,000
75 Surface Pumps	-	-	-	-
76 Downhole Pumps	-	-	-	-
77 Measurement & Meter Installation	-	-	-	-
78 Gas Conditioning / Dehydration	-	-	-	-
79 Interconnecting Facility Piping	-	-	-	-
80 Gathering / Bulk Lines	-	-	-	-
81 Valves, Dumps, Controllers	-	-	-	-
82 Tank / Facility Containment	-	-	-	-
83 Flare Stack	-	-	-	-
84 Electrical / Grounding	-	-	-	-
85 Communications / SCADA	-	-	-	-
86 Instrumentation / Safety	-	-	-	-
TOTAL TANGIBLES >	642,694	0	502,648	1,145,342
TOTAL COSTS >	3,966,329	5,718,123	591,198	10,275,651
	777.7116241	1121.200667		2014.833467

PREPARED BY Colgate Energy:

Drilling Engineer: Rafael Madrid
Completions Engineer: Brady Adams
Production Engineer: Brady Adams

CRM

Colgate Energy APPROVAL:

Co-CEO WH Co-CEO JW VP - Operations CRM
VP - Land & Legal BC VP - Geosciences SO

NON OPERATING PARTNER APPROVAL:

Company Name: Working Interest (%): Tax ID:
Signed by: Date:
Title: Approval: ☐ Yes ☐ No (mark one)

The users of this AFE are authorized to use and may be required to execute in accordance with the terms of the total cost of the project. The user of this AFE is authorized to use and may be required to execute in accordance with the terms of the total cost of the project. The user of this AFE is authorized to use and may be required to execute in accordance with the terms of the total cost of the project.