

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

**APPLICATION OF ELIZABETH KAY DILLARD  
TO REOPEN CASE NO. 21226 (ORDER NO. R-  
21354), EDDY COUNTY, NEW MEXICO**

**CASE NO. 22323**

**COLGATE OPERATING, LLC'S  
PRE-HEARING STATEMENT**

Colgate Operating, LLC ("Colgate") submits its Pre-Hearing Statement pursuant to the rules of the Oil Conservation Division ("Division").

**APPEARANCES**

**APPLICANT**

Elizabeth Kaye Dillard

**ATTORNEYS**

Scott S. Morgan  
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P. O. Box 1216  
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**INTERESTED PARTIES**

Colgate Operating, LLC

**ATTORNEYS**

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*Counsel for Colgate Operating, LLC*

### STATEMENT OF THE CASE

Order No. R-21354 (“Order”), which was issued on June 10, 2020 in Case No. 21226, pooled all uncommitted interests in the Winchester Bone Spring Pool underlying the S/2 of Sections 33 and 34, Township 19 South, Range 38 East, N.M.P.M., Eddy County, New Mexico. The Order further dedicated the unit to the Dawson 34 Fed State Com 123H, 124H, 133H, and 134H wells (“Wells”) and designated Colgate as operator of the Wells. Applicant Elizabeth Kaye Dillard filed her application more than sixteen months later, requesting that the Division reopen Case No. 21226 based on her claim that she did not receive notice of Colgate’s application and therefore did not have an opportunity to participate in the Wells. She also claims that the 200% risk charge assessed in the pooling order is unreasonable. As explained below, Colgate denies Ms. Dillard’s allegations and her application should be denied.

**I. Ms. Dillard lacks standing to challenge Order No. R-21354 because Colgate gave her an opportunity to participate in the Wells after the Order was issued and she declined to do so.**

On December 10, 2020, Colgate sent a well proposal to Ms. Dillard at 1307 Hodges Avenue, Ruston, Louisiana, 71270, which is the address Ms. Dillard claims is correct. *See* Application at 4. Ms. Dillard declined to respond and then filed her application to reopen the Order nearly a year later. Ms. Dillard’s due process rights were not violated as she claims, and she lacks standing to challenge the Order.

The Division’s adjudication rules provide that “[t]he division, attorney general, an operator or producer or other person *with standing* may file an application with the division for an adjudicatory hearing. The director, upon receiving a division examiner’s recommendation, may dismiss an application for an adjudicatory proceeding upon a showing that the applicant *does not have standing*.” 19.5.4.8(A) NMAC (emphasis added). To establish standing, an individual must

meet the following elements: (1) injury in fact, (2) causation, and (3) redressability. *See, e.g., ACLU v. City of Albuquerque*, 2008-NMSC-045, ¶ 7, 144 N.M. 471.

In this case, Ms. Dillard cannot establish that the alleged lack of notice caused her claimed injury (*i.e.* deprived her of the option to participate in the wells), because Colgate gave her an opportunity to participate after the Order was issued and she declined to respond. Because Ms. Dillard lacks standing to challenge the Order, her application should be denied.

**II. Ms. Dillard’s application should be denied because she failed to timely challenge the Order.**

Neither New Mexico common law nor the Oil and Gas Act affords parties an unlimited period of time to challenge a pooling order. The doctrines of equitable estoppel and laches apply here and bar Ms. Dillard’s claims. “[E]stoppel is the preclusion, by acts or conduct, from asserting a right which might otherwise have existed, to the detriment and prejudice of another, who, in reliance on such acts and conduct, has acted thereon.” *Waters-Haskins v. N.M. Human Servs. Dept.*, 2009-NMSC-031, ¶ 15, 146 N.M. 391. The doctrine of laches prevents litigation of a stale claim. The elements of laches are: (1) conduct on the part of the defendant giving rise to the situation of which complaint is made and for which the complainant seeks a remedy; (2) delay in asserting the complainant’s rights after having been afforded an opportunity to initiate a suit; (3) lack of knowledge or notice on the part of the defendant that the complainant would assert the claim; and (4) injury or prejudice to the defendant in the event relief is accorded to the complainant or the suit is not barred. *Garcia v. Garcia*, 1991-NMSC-023, ¶ 31, 111 N.M. 581.

In this case, Ms. Dillard failed to timely challenge the Order after Colgate afforded her an opportunity to participate in the Wells, and Colgate relied on the Order in proceeding to develop its acreage and in allocating costs and revenues. At this point, the Wells are producing or are being

completed, and allowing Ms. Dillard an opportunity to participate at this late date would unduly prejudice Colgate.

Further, the Oil and Gas Act provides: “When any matter or proceeding is referred to an examiner and the decision is rendered thereon, any party of record adversely affected shall have the right to have the matter heard *de novo* before the commission upon application filed with the division within thirty days from the time any such decision is rendered.” NMSA 1978, § 70-2-13. The Commission’s adjudication regulation mirrors the statutory provision and similarly requires *de novo* appeals to be filed within 30 days after the Division’s order is issued. 19.15.4.23(A) NMAC.

Without time limitations like those set out in Section 70-2-13, parties could challenge the Division’s orders at any time, regardless of the age of the order. This result would lead to a lack of certainty and finality of the orders issued by the Division. That outcome would be untenable for the Division and for the parties who rely on its orders, including parties who have drilled wells the Division has approved. Allowing parties to challenge pooling orders for an unlimited period of time would inject instability into oil and gas development in New Mexico and would thereby violate the Oil and Gas Act’s requirement that the Division act to prevent waste and protect correlative rights. *See, e.g.*, NMSA 1978, § 70-2-11.

### **III. Colgate used reasonable diligence to attempt to locate Ms. Dillard.**

Colgate performed a diligent search of public records, including phone directories and computer searches, to locate Ms. Dillard’s contact information. Colgate also timely published notice of the hearing in the Carlsbad Current-Argus. Ms. Dillard’s claim that Colgate failed to use reasonable diligence to locate her is incorrect.

**IV. The 200% risk charge included in the pooling order is just and reasonable.**

With respect to the risk charge, NMAC 19.15.13.8 establishes that a 200% charge for risk is reasonable and states that an operator need not present technical evidence justifying the charge. A party who argues that the 200% risk charge is unreasonable must present relevant geological or technical evidence to support the challenge. If Ms. Dillard presents geological or technical evidence to challenge the 200% risk charge, Colgate reserves the right to present testimony by its Vice President of Engineering, Jordan Cox, in response.

**STATEMENT OF FACTS**

The primary factual issues to be addressed include whether Colgate used reasonable diligence in attempting to locate Dillard and, if Ms. Dillard presents geological or technical evidence regarding the 200% risk charge, whether the charge is reasonable. Colgate has not identified undisputed material facts other than those that were addressed and decided in Case No. 21226.

**PROPOSED EVIDENCE**

<b>Witness</b>	<b>Occupation</b>	<b>Estimated Time</b>	<b>Exhibits</b>
Mark Hajdik	Landman	20 minutes	Approx. 5

A copy of Mr. Hadjik’s testimony and exhibits is attached.

**PROCEDURAL MATTERS**

Colgate is unaware of procedural matters to be addressed at this time.

Respectfully submitted,

HINKLE SHANOR, LLP

/s/ Dana S. Hardy

Dana S. Hardy

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*Counsel for Colgate Operating, LLC*

**CERTIFICATE OF SERVICE**

I hereby certify that on May 12, 2022, I caused a true and correct copy of this document to be electronically served on the following:

Scott S. Morgan

Brandon D. Hajny

smorgan@cilawnm.com

bhajny@cilawnm.com

*Attorneys for Elizabeth Kaye Dillard*

/s/ Dana S. Hardy

Dana S. Hardy

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

**APPLICATION OF ELIZABETH KAY DILLARD  
TO REOPEN CASE NO. 21226 (ORDER NO. R-  
21354), EDDY COUNTY, NEW MEXICO**

**CASE NO. 22323**

**COLGATE OPERATING, LLC'S  
HEARING EXHIBITS**

Exhibit A	Self-Affirmed Statement of Mark Hadjik
A-1	Order No. R-21354
A-2	Affidavit of Mark Hadjik in Case No. 21226
A-3	Affidavit of Ernest L. Padilla in Case No. 21226
A-4	December 10, 2022 Well Proposal

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

**APPLICATION OF ELIZABETH KAY DILLARD  
TO REOPEN CASE NO. 21226 (ORDER NO. R-  
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**CASE NO. 22323**

**SELF-AFFIRMED STATEMENT  
OF MARK HADJIK**

1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein.

2. I am a Senior Staff Landman with Colgate Energy (“Colgate”). I have previously testified before the Division, and my qualifications as an expert in petroleum land matters were accepted.

3. I am familiar with the matters addressed in Ms. Dillard’s application.

4. I have handled the land matters associated with Colgate’s development of the Dawson wells, which are located in the S/2 of Sections 33 and 34, Township 19 South, Range 38 East. These wells were the subject of Order No. R-21354 (“Order”), which was issued on June 10, 2020 in Case No. 21226. The Order pooled all uncommitted interests in the Winchester Bone Spring Pool underlying the S/2 of Sections 33 and 34, Township 19 South, Range 38 East, N.M.P.M., Eddy County, New Mexico (“Unit”). The Order further dedicated the Unit to the Dawson 34 Fed State Com 123H, 124H, 133H, and 134H wells (“Wells”) and designated Colgate as operator of the Wells. A copy of the Order is attached as **Exhibit A-1**.

5. I submitted an affidavit and supporting exhibits in Case No. 21226. A copy of those documents is attached as **Exhibit A-2**.

Case No. 22323  
Colgate Operating  
Exh. A

6. As shown in the exhibits, I submitted a well proposal letter to the working interest owners on November 4, 2019.

7. I attempted to locate all of the interest owners in the Unit, including Ms. Dillard. To locate Ms. Dillard, I searched county records and ran internet searches. I identified several potential addresses for Ms. Dillard. I determined that the estate of Ms. Dillard's mother was probated in Plano, Texas. Based on that information, I located an address for Ms. Dillard of 3208 Wellshire Court, Plano, TX 75093. I sent the initial well proposals to that address and did not receive a response. This was not unusual, as parties often do not pick up certified mail.

8. Colgate's hearing notice in Case No. 21226 was sent to the address I had located in Plano, but the envelope was returned. Colgate did timely publish notice of the hearing. A copy of the notice exhibits in Case No. 21226 is attached as **Exhibit A-3**.

9. After the Order was issued, I performed additional research in an attempt to locate the parties to whom the Wells would be re-proposed. Through that research, I located an address for Ms. Dillard of 1307 Hodges Ave., Ruston, Louisiana 71270. I sent a well proposal to Ms. Dillard at that address on December 10, 2020. A copy of the well proposal is attached as **Exhibit A-4**. I did not receive a response. Again, this was not unusual.

10. I used reasonable diligence to locate all of the interest owners in Case No. 21226, including Ms. Dillard.

11. Two of the Wells have been producing since approximately February of 2021. Colgate relied on the Order in expending significant funds to develop its acreage and in allocating costs and revenues among the working interest owners.

12. The attached exhibits attached were either prepared by me or under my supervision or were compiled from company business records.

13. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 12 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

  
\_\_\_\_\_  
Mark Hadjik

5/11/22  
\_\_\_\_\_  
Date

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

**IN THE MATTER OF APPLICATION FOR  
COMPULSORY POOLING SUBMITTED BY  
COLGATE OPERATING, LLC**

**CASE NO. 21226  
ORDER NO. R-21354**

**ORDER**

The Director of the New Mexico Oil Conservation Division (“OCD”), having heard this matter through a Hearing Examiner on May 28, 2020, and after considering the testimony, evidence, and recommendation of the Hearing Examiner, issues the following Order.

**FINDINGS OF FACT**

1. Colgate Operating, LLC (“Operator”) submitted an application (“Application”) to compulsory pool the uncommitted oil and gas interests within the spacing unit (“Unit”) described in Exhibit A. The Unit is expected to be a standard horizontal spacing unit. 19.15.16.15(B) NMAC. Operator seeks to be designated the operator of the Unit.
2. Operator will dedicate the well(s) described in Exhibit A (“Well(s)”) to the Unit.
3. Operator proposes the supervision and risk charges for the Well(s) described in Exhibit A.
4. Operator identified the owners of uncommitted interests in oil and gas minerals in the Unit and provided evidence that notice was given.
5. The Application was heard by the Hearing Examiner on the date specified above, during which Operator presented evidence through affidavits in support of the Application. No other party presented evidence at the hearing.

Case No. 22323  
Colgate Operating  
Exh. A-1

**CONCLUSIONS OF LAW**

6. OCD has jurisdiction to issue this Order pursuant to NMSA 1978, Section 70-2-17.
7. Operator is the owner of an oil and gas working interest within the Unit.
8. Operator satisfied the notice requirements for the Application and the hearing as required by 19.15.4.12 NMAC.
9. OCD satisfied the notice requirements for the hearing as required by 19.15.4.9 NMAC.
10. Operator has the right to drill the Well(s) to a common source of supply at the described depth(s) and location(s) in the Unit.
11. The Unit contains separately owned uncommitted interests in oil and gas minerals.
12. Some of the owners of the uncommitted interests have not agreed to commit their interests to the Unit.
13. The pooling of uncommitted interests in the Unit will prevent waste and protect correlative rights, including the drilling of unnecessary wells.
14. This Order affords to the owner of an uncommitted interest the opportunity to produce his just and equitable share of the oil or gas in the pool.

**ORDER**

15. The uncommitted interests in the Unit are pooled as set forth in Exhibit A.
16. The Unit shall be dedicated to the Well(s) set forth in Exhibit A.
17. Operator is designated as operator of the Unit and the Well(s).
18. If the Surface Location or Bottom Hole Location of a well is changed from the location described in Exhibit A, Operator shall submit an amended Exhibit A, which the Division shall append to this Order.
19. If the location of a well will be unorthodox under the spacing rules in effect at the time of completion, Operator shall obtain the OCD's approval for a non-standard location before commencing production of the well.

20. The Operator shall commence drilling the initial well within one (1) year after the date of this Order; and (b) for an infill well, no later than thirty (30) days after completion of the well.
21. Operator shall comply with the infill well requirements in 19.15.13.9 NMAC through 19.15.13.12 NMAC.
22. This Order shall terminate automatically if Operator fails to comply with Paragraphs 20 or 21.
23. Operator shall submit to OCD and each owner of a working interest in the pool ("Pooled Working Interest") an itemized schedule of estimated costs to drill, complete, and equip the well ("Estimated Well Costs") no later than: (a) for an initial well, no later than thirty (30) days after the date of this Order; (b) for an infill well proposed by Operator, no later than (30) days after the later of the initial notice period pursuant to 19.15.13.10(B) NMAC or the extension granted by the OCD Director pursuant 19.15.13.10(D) NMAC; or (c) for an infill well proposed by an owner of a Pooled Working Interest, no later than thirty (30) days after expiration of the last action required by 19.15.13.11 NMAC.
24. No later than thirty (30) days after Operator submits the Estimated Well Costs , the owner of a Pooled Working Interest shall elect whether to pay its share of the Estimated Well Costs or its share of the actual costs to drill, complete and equip the well ("Actual Well Costs") out of production from the well. An owner of a Pooled Working Interest who elects to pay its share of the Estimated Well Costs shall render payment to Operator no later than thirty (30) days after the expiration of the election period, and shall be liable for operating costs, but not risk charges, for the well. An owner of a Pooled Working Interest who fails to pay its share of the Estimated Well Costs or who elects to pay its share of the Actual Well Costs out of production from the well shall be considered to be a "Non-Consenting Pooled Working Interest."
25. No later than within one hundred eighty (180) days after Operator submits a Form C-105 for a well, Operator shall submit to OCD and each owner of a Pooled Working Interest an itemized schedule of the Actual Well Costs. The Actual Well Costs shall be considered to be the Reasonable Well Costs unless OCD or an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If OCD or an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Reasonable Well Costs after public notice and hearing.
26. No later than sixty (60) days after the later of the expiration of the period to file a written objection to the Actual Well Costs or OCD's order determining the Reasonable Well Costs, each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs shall pay to Operator its share of the Reasonable Well

Costs that exceed the Estimated Well Costs, or Operator shall pay to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs its share of the Estimated Well Costs that exceed the Reasonable Well Costs.

27. The reasonable charges for supervision to drill and produce a well (“Supervision Charges”) shall not exceed the rates specified in Exhibit A, provided however that the rates shall be adjusted annually pursuant to the COPAS form entitled “Accounting Procedure-Joint Operations.”
28. No later than within ninety (90) days after Operator submits a Form C-105 for a well, Operator shall submit to OCD and each owner of a Pooled Working Interest an itemized schedule of the reasonable charges for operating and maintaining the well ("Operating Charges"), provided however that Operating Charges shall not include the Reasonable Well Costs or Supervision Charges. The Operating Charges shall be considered final unless OCD or an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If OCD or an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Operating Charges after public notice and hearing.
29. Operator may withhold the following costs and charges from the share of production due to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs: (a) the proportionate share of the Supervision Charges; and (b) the proportionate share of the Operating Charges.
30. Operator may withhold the following costs and charges from the share of production due to each owner of a Non-Consenting Pooled Working Interest: (a) the proportionate share of the Reasonable Well Costs; (b) the proportionate share of the Supervision and Operating Charges; and (c) the percentage of the Reasonable Well Costs specified as the charge for risk described in Exhibit A.
31. Each year on the anniversary of this Order, and no later than ninety (90) days after each payout, Operator shall provide to OCD and each owner of a Non-Consenting Pooled Working Interest a schedule of the revenue attributable to a well and the Supervision and Operating Costs charged against that revenue.
32. Any cost or charge that is paid out of production shall be withheld only from the share due to an owner of a Pooled Working Interest. No cost or charge shall be withheld from the share due to an owner of a royalty interests. For the purpose of this Order, an unleased mineral interest shall consist of a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest.
33. Except as provided above, Operator shall hold the revenue attributable to a well that is not disbursed for any reason for the account of the person(s) entitled to the

revenue as provided in the Oil and Gas Proceeds Payment Act, NMSA 1978, Sections 70-10-1 *et seq.*, and relinquish such revenue as provided in the Uniform Unclaimed Property Act, NMSA 1978, Sections 7-8A-1 *et seq.*

- 34. The Unit shall terminate if (a) the owners of all Pooled Working Interests reach a voluntary agreement; or (b) the well(s) drilled on the Unit are plugged and abandoned in accordance with the applicable rules. Operator shall inform OCD no later than thirty (30) days after such occurrence.
- 35. OCD retains jurisdiction of this matter for the entry of such orders as may be deemed necessary.

**STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION**



**ADRIENNE SANDOVAL  
DIRECTOR**

AS/tgw

**Date:** 6/10/2020

CASE NO. 21226  
ORDER NO. R-21354

Page 5 of 7

Exhibit A

COMPULSORY POOLING APPLICATION CHECKLIST	
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS	
Case: 21226	Applicant's Response
Date May 28, 2020	
Applicant	Colgate Operating, LLC
Designated Operator & OGRID (affiliation if applicable)	371449
Applicant's Counsel	Ernest L. Padilla
Case Title:	Application of Colgate Operating, LLC, Case No. 21226 for compulsory pooling, and non-standard spacing and proration unit, Eddy County, New Mexico
Entries of Appearance/Intervenors	Modrall-Lance D. Hough for EOG & James Bruce for Mewbourne
Well Family	Dawson 34 Fed State Com
Formation/Pool	
Formation Name(s) or Verticle Extent	Winchester, Bone Spring
Primary Product (Oil or Gas)	oil
Pooling this verticle extent	Bone Spring Formation
Pool Name and Pool Code	Winchester, Bone Spring (Pool code 65010)
Well Location Setback Rules	Standard
Spacing Unit Size	320 ac
Spacing Unit	
Type (Horizontal/Verticle)	Horizontal
Size (acres)	320
Building Blocks	quarter-quarter sections
Orientation	East to West
Description: TRS/County	N/2 S/2 of Sections 33 & 34 19S, 28E, Eddy County, NM
Description: TRS/County	S/2 S/2 of Sections 33 & 34 19S, 28E, Eddy County, NM
Standard Horizontal Well Spacing Unit	Yes
Other Situations	
Depth Severance: No	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: If yes, description	No
Applicant's Ownership in Each Tract	Ex. 1 105 through 108
Well(s)	
Name & API (if assigned), surface and bottom hole location footages, completion target, orientation, completion status (standard or non-standard)	<p><b>Dawson 34 Fed State Com 123H</b>                      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: Completion Target: 2nd Bone Spring Sand at approx 7500 feet TVD                      Well Orientation: East to West                      Completion Location: standard</p> <p><b>Dawson 34 Fed State Com 133H</b>                      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</p> <p><b>Dawson 34 Fed State Com 124H</b>                      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</p> <p><b>Dawson 34 Fed State Com 134H</b>                      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</p>
Horizontal Well First and Last Take Points	Exhibit 1 pages 006, 018, 030, 042
Completion Target (Formation, TVD and MD)	Exhibit 1 AFE's pages 120, 123, 124, 125, 126 and also listed above with each well.
	<b>Identify the Exhibit and Page for Information below this line</b>
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8000/\$800
Production Supervision/Month \$	Exhibit 1 pages 123 through 126 for AFE's

CASE NO. 21226  
 ORDER NO. R-21354

Justification for Supervision Costs	Exhibit 1 pages 123 through 126 for AFE's
Request Risk Charge	200% please see Exhibit 1 pages 123 through 126 for AFE's
<b>Notice of Hearing</b>	
Proposed Notice of Hearing	Exhibit 3 pages 004-012 (Affidavit of Ernest L. Padilla)
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit 3 pages 013 through 025 (Affidavit of Ernest L. Padilla)
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit 3 pages 078-083
<b>Ownership Determination</b>	
Land Ownership Schematic of the Spacing Unit	Exhibit 1, pages 105-108
Tract List (including lease numbers and owners)	Exhibit 1, pages 105-108
Pooled Parties (including ownership type)	Exhibit 1, pages 105-108
Unlocatable Parties to be Pooled	Exhibit 3, pages 021 through 025 pages 078-083
Ownership Depth Severance (including percentage above & below)	None
<b>Joinder</b>	
Sample Copy of Proposed Letter	Exhibit 1, pages 118-119
List of Interest Owners (ie Exhibit A of JOA)	Exhibit 1, pages 105-108
Chronology of Contact with Non-Joined Working Interests	Exhibit 1, page 117
Overhead Rates in Proposal Letter	Exhibit 1, pages 118-119
Cost Estimates to Drill and Complete	Exhibit 1, pages 123-126 of AFE's
Cost Estimate to Equip Well	Exhibit 1, pages 123-126 of AFE's
Cost Estimate for Production Facilities	Exhibit 1, pages 123-126 of AFE's
<b>Geology</b>	
Summary (including special considerations)	Exhibit 2, pages 001-002
Spacing Unit Schematic	None
Gunbarrel/Lateral Trajectory Schematic	Exhibit 2, page 005
Well Orientation (with rationale)	none
Target Formation	Exhibit 2, pages 012, 013 & 014
HSU Cross Section	Exhibit 2, pages 012, 013 & 014
Depth Severance Discussion	none
Forms, Figures and Tables	none
C-102	see above
Tracts	Exhibit 2, page 009, 010, 011
Summary of Interests, Unit Recapitulation (Tracts)	none
General Location Map (including basin)	Exhibit 2, page 006
Well Orientation (with rationale)	Exhibit 2, page 009
Structure Contour Map - Subsea Depth	Exhibit 2, page 008 & 010
Cross Section Location Map (including wells)	Exhibit 2, page 012
Cross Section (including Landing Zone)	Exhibit 2, page 013, 014
<b>Additional Information</b>	
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
Printed Name: (Attorney or Party Representative):	Ernest L. Padilla
Signed Name: (Attorney or Party Representative):	
Date: June 4, 2020	

CASE NO. 21226  
ORDER NO. R-21354

Page 7 of 7

**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.

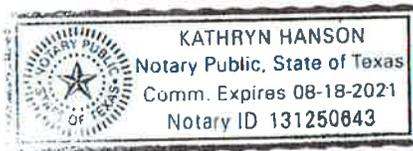
18. The granting of this application is in the interests of conservation and the prevention of waste.

*Mark Hadjik*  
\_\_\_\_\_  
MARK HADJIK

SUBSCRIBED AND SWORN to before me this 26<sup>th</sup> 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

<sup>1</sup> API Number		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name	
<sup>4</sup> Property Code		<sup>5</sup> Property Name DAWSON 34 FED COM			<sup>6</sup> Well Number 123H
<sup>7</sup> OGRID No. 371449		<sup>8</sup> Operator Name COLGATE OPERATING, LLC			<sup>9</sup> Elevation 3304.5

<sup>10</sup> Surface Location

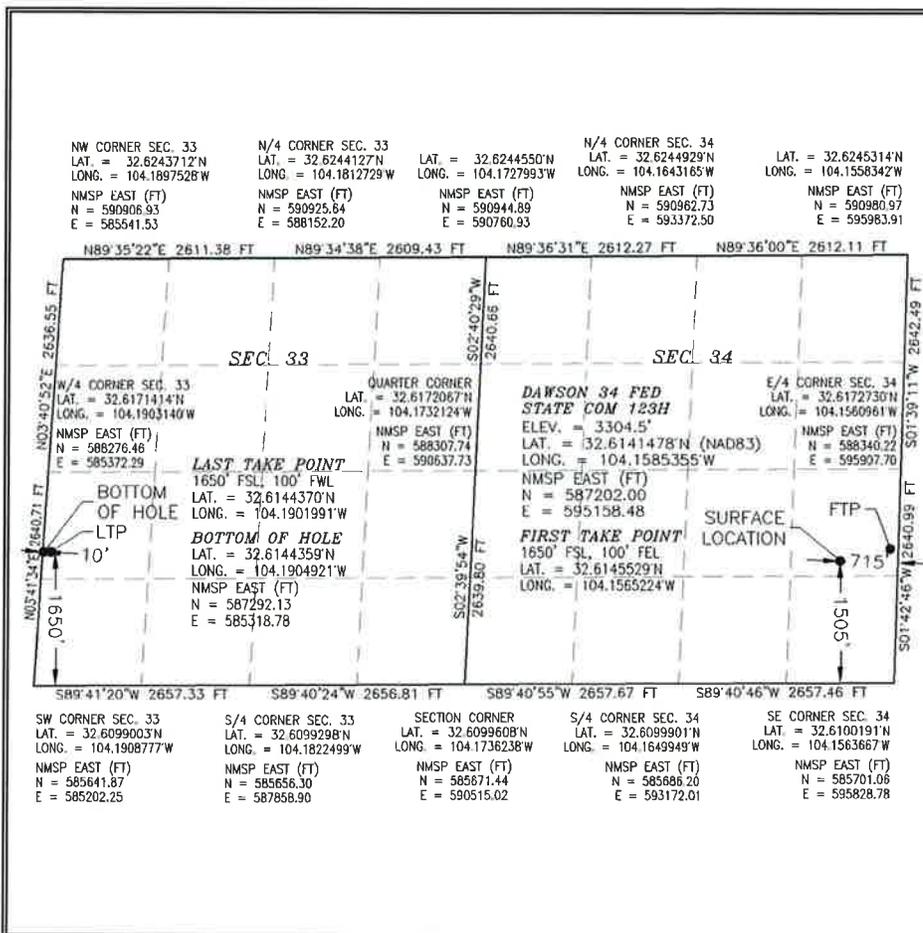
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	19 S	28 E		1505	SOUTH	715	EAST	EDDY

<sup>11</sup> 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		1650	SOUTH	10	WEST	EDDY

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



**<sup>17</sup> 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 \_\_\_\_\_

**<sup>18</sup> 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: F11806 W. JARAMELLO PLS 12797



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					Longitude				NAD
32.6145529					104.1565224				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					Longitude				NAD
32.6144370					104.1901991				83

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

Is this well an infill well?

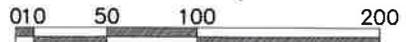
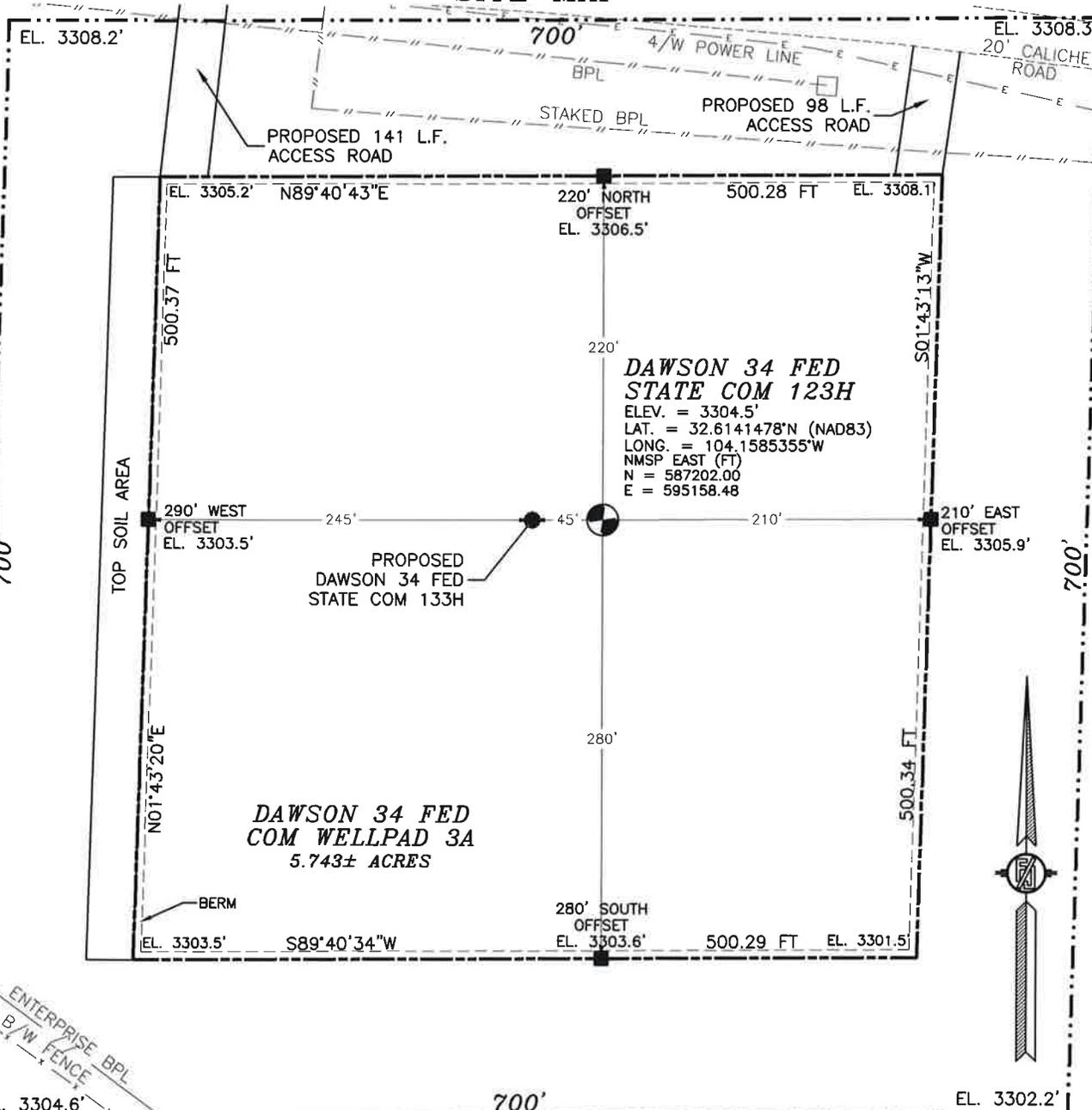
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

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



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 NORTHEAST CORNER FOR THIS LOCATION.

I, FILMON F. MARILLON, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12272, DO HEREBY CERTIFY THAT THIS SURVEY, THAT I HAVE MADE, IS ACCORDING TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT I AM AWARE OF THE STANDARDS FOR THIS SURVEY.

FILMON F. MARILLON  
 MADRON SURVEYING, INC. PROFESSIONAL SURVEYOR

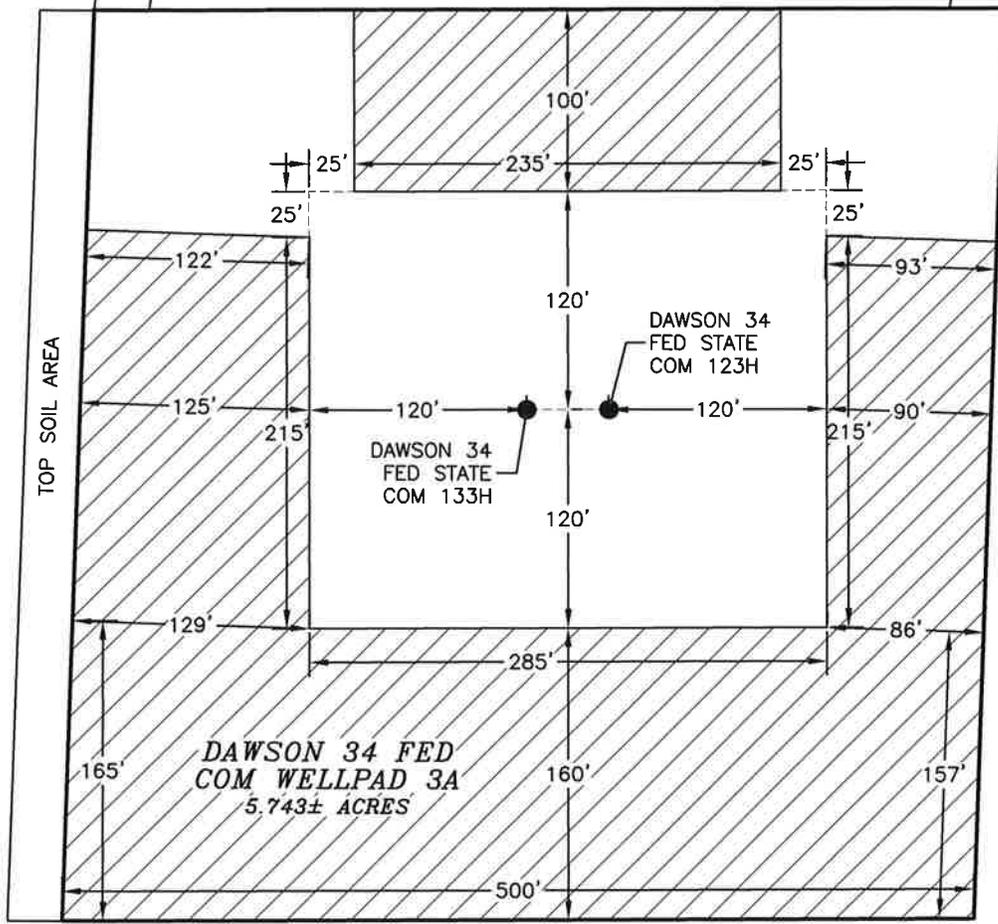
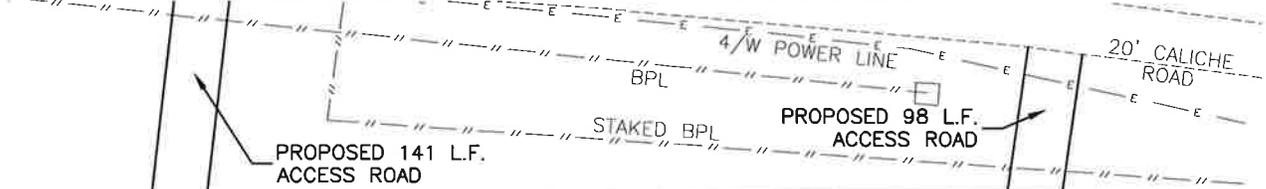
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 123H**  
 LOCATED 1505 FT. FROM THE SOUTH LINE  
 AND 715 FT. FROM THE EAST LINE OF  
 SECTION 34, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

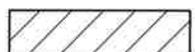
FEBRUARY 19, 2020

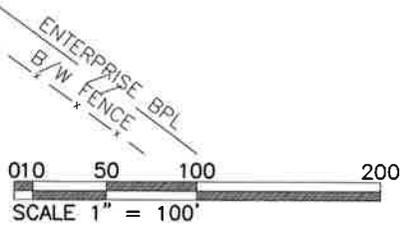
SURVEY NO. 7983

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

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



 DENOTES RECLAMATION AREA  
3.443± ACRES RECLAMATION AREA



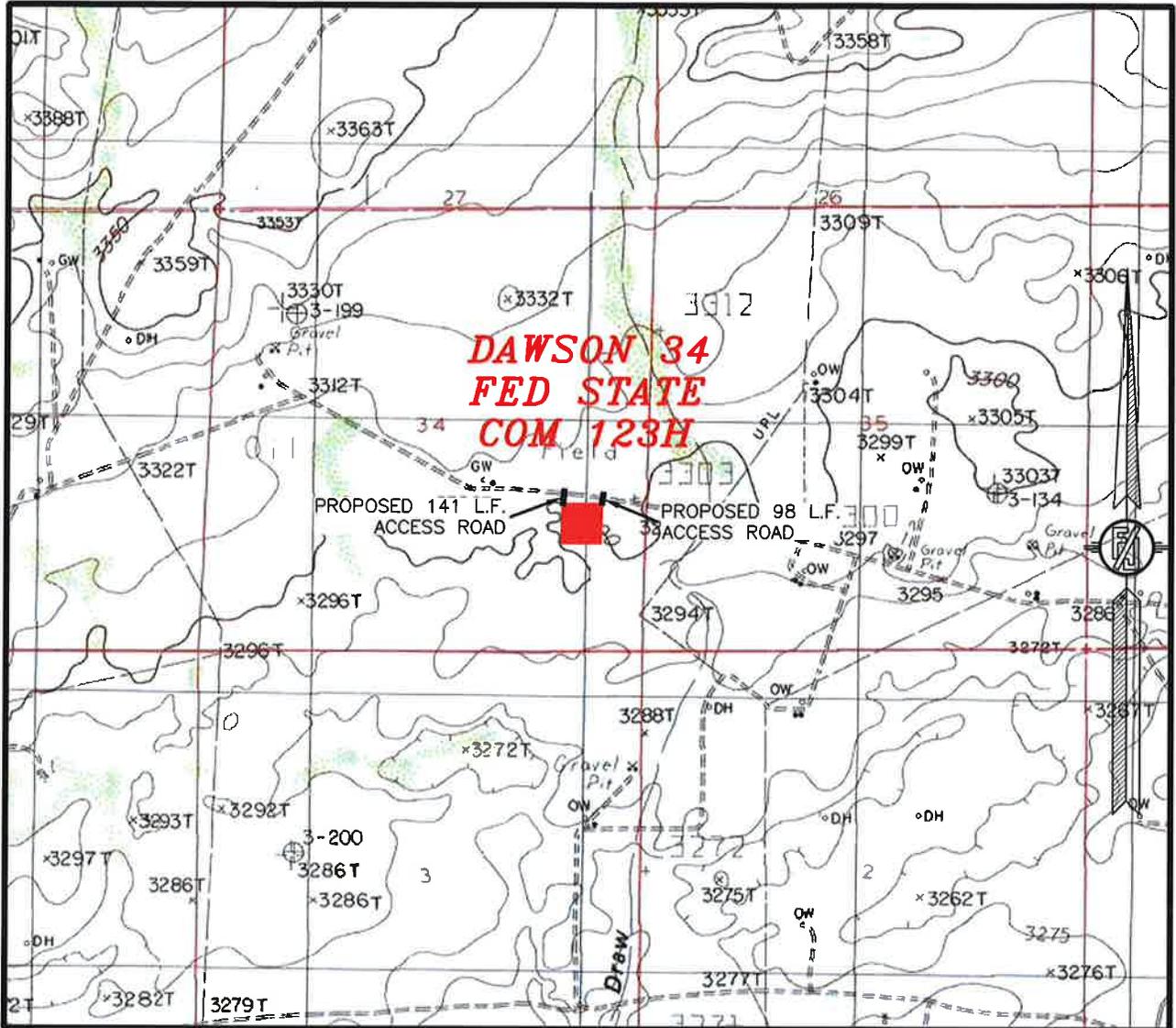
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 123H**  
LOCATED 1505 FT. FROM THE SOUTH LINE  
AND 715 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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

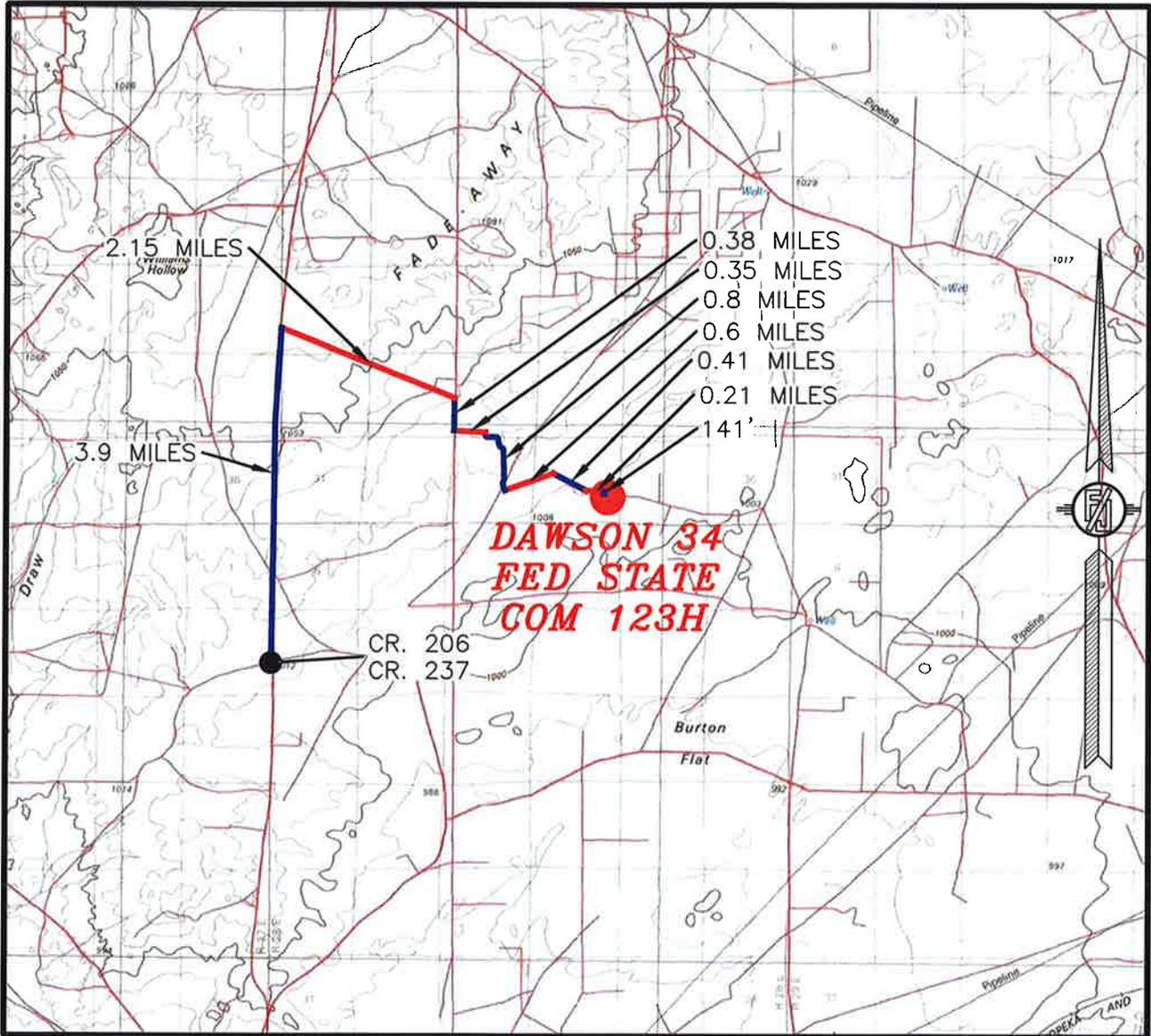
**COLGATE OPERATING, LLC**  
**DAWSON 34 FED STATE COM 123H**  
LOCATED 1505 FT. FROM THE SOUTH LINE  
AND 715 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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.

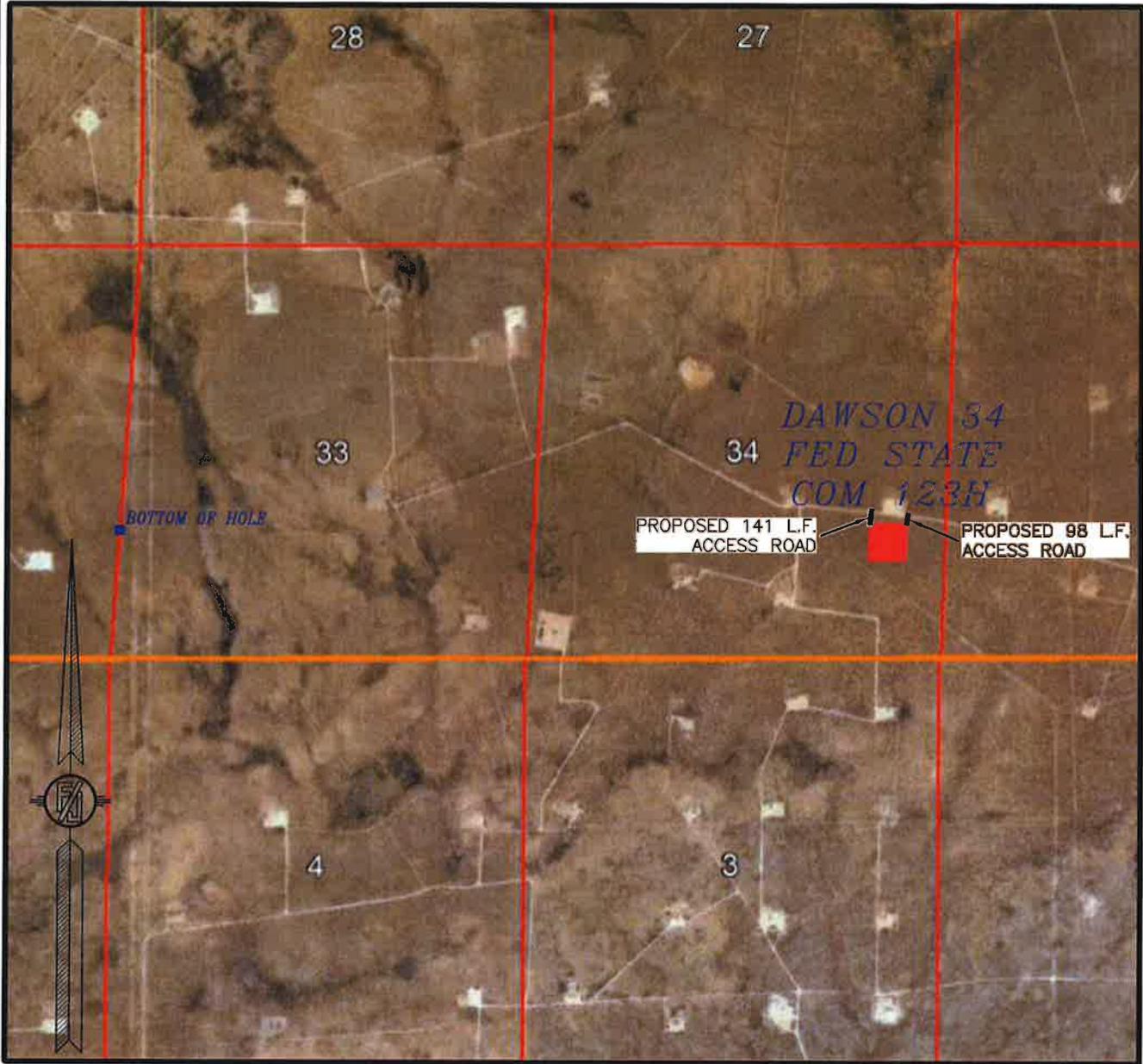
**COLGATE OPERATING, LLC**  
**DAWSON 34 FED STATE COM 123H**  
LOCATED 1505 FT. FROM THE SOUTH LINE  
AND 715 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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

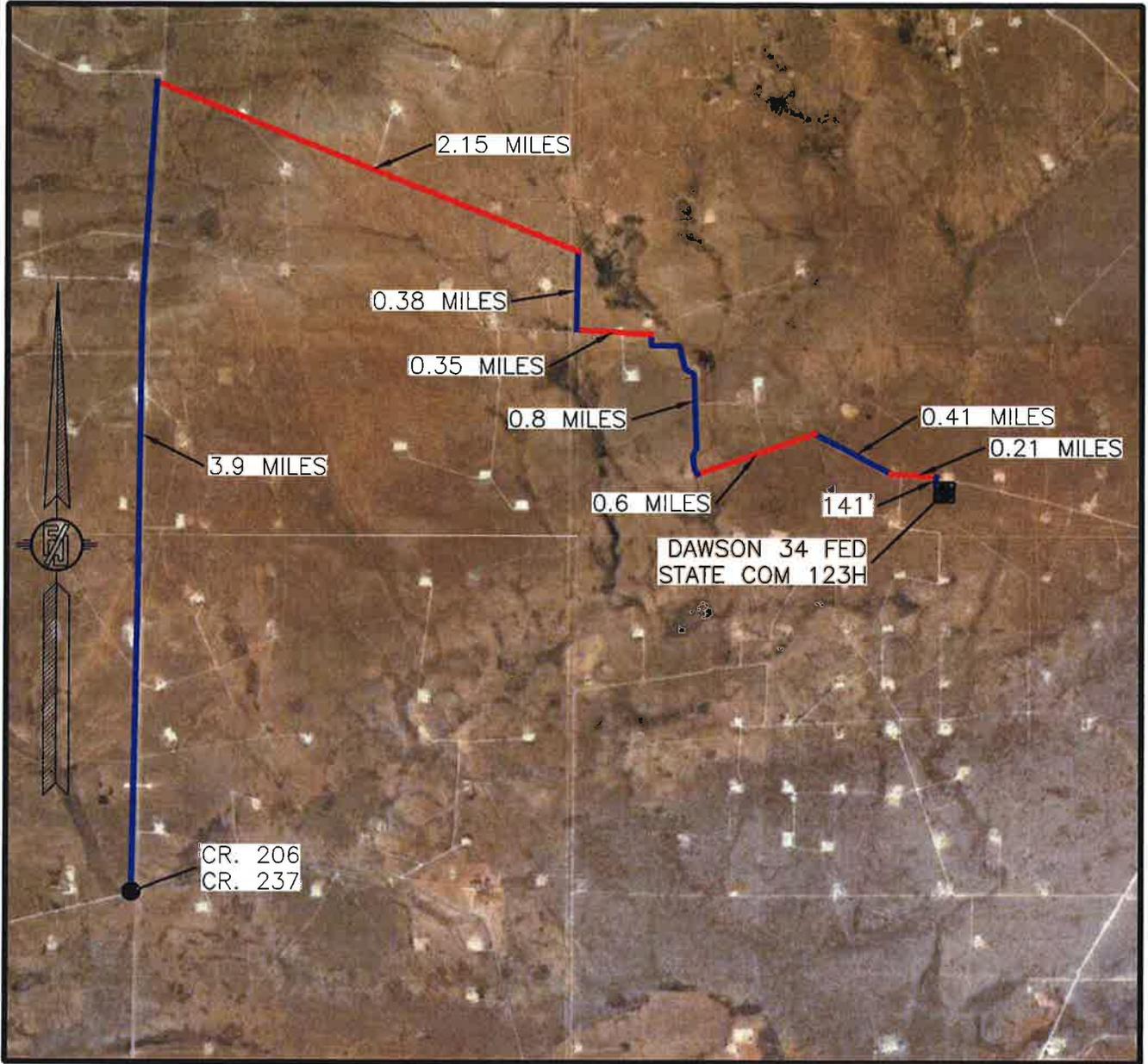
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 123H**  
LOCATED 1505 FT. FROM THE SOUTH LINE  
AND 715 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 19, 2020

SURVEY NO. 7983

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

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

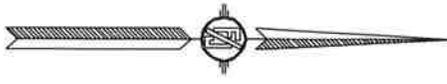
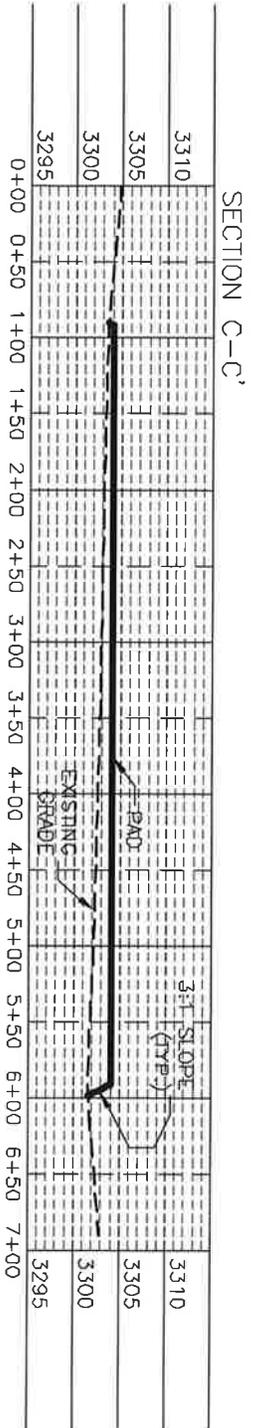
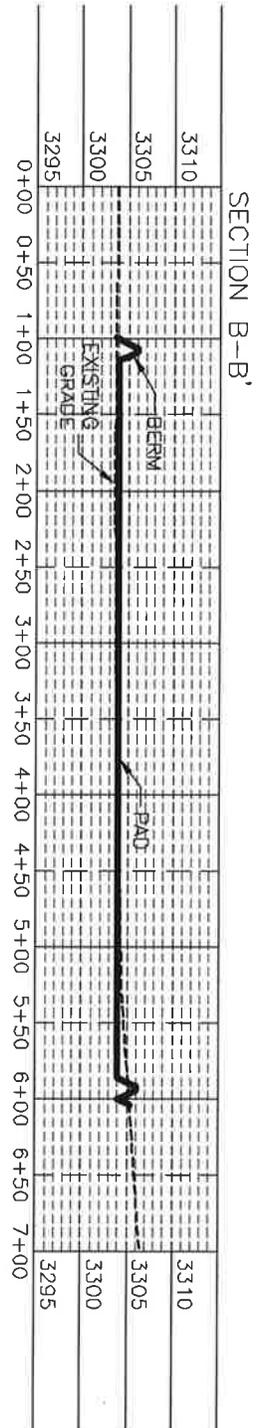
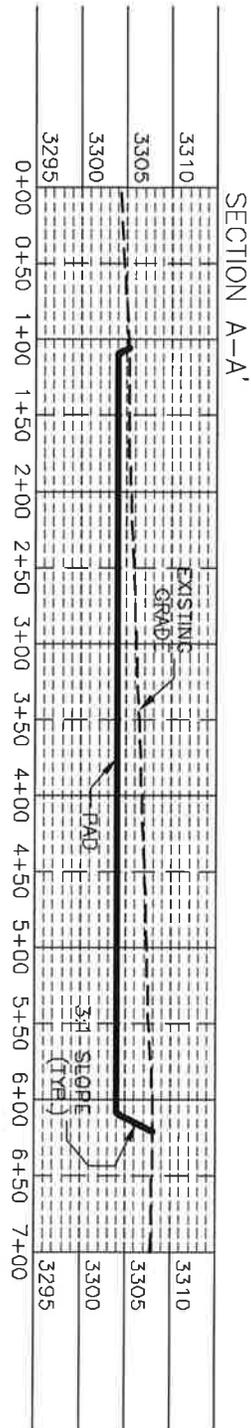
FEBRUARY 19, 2020

SURVEY NO. 7983

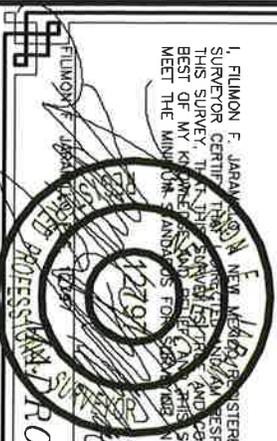
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341



CROSS-SECTIONS



I, FILMON F. JARAMA, LICENSED PROFESSIONAL SURVEYOR CERTIFICATE NO. 1279, AM RESPONSIBLE FOR THIS SURVEY, IN THE KNOWING AND IN THE BEST OF MY KNOWLEDGE AND BELIEF, THIS SURVEY 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

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

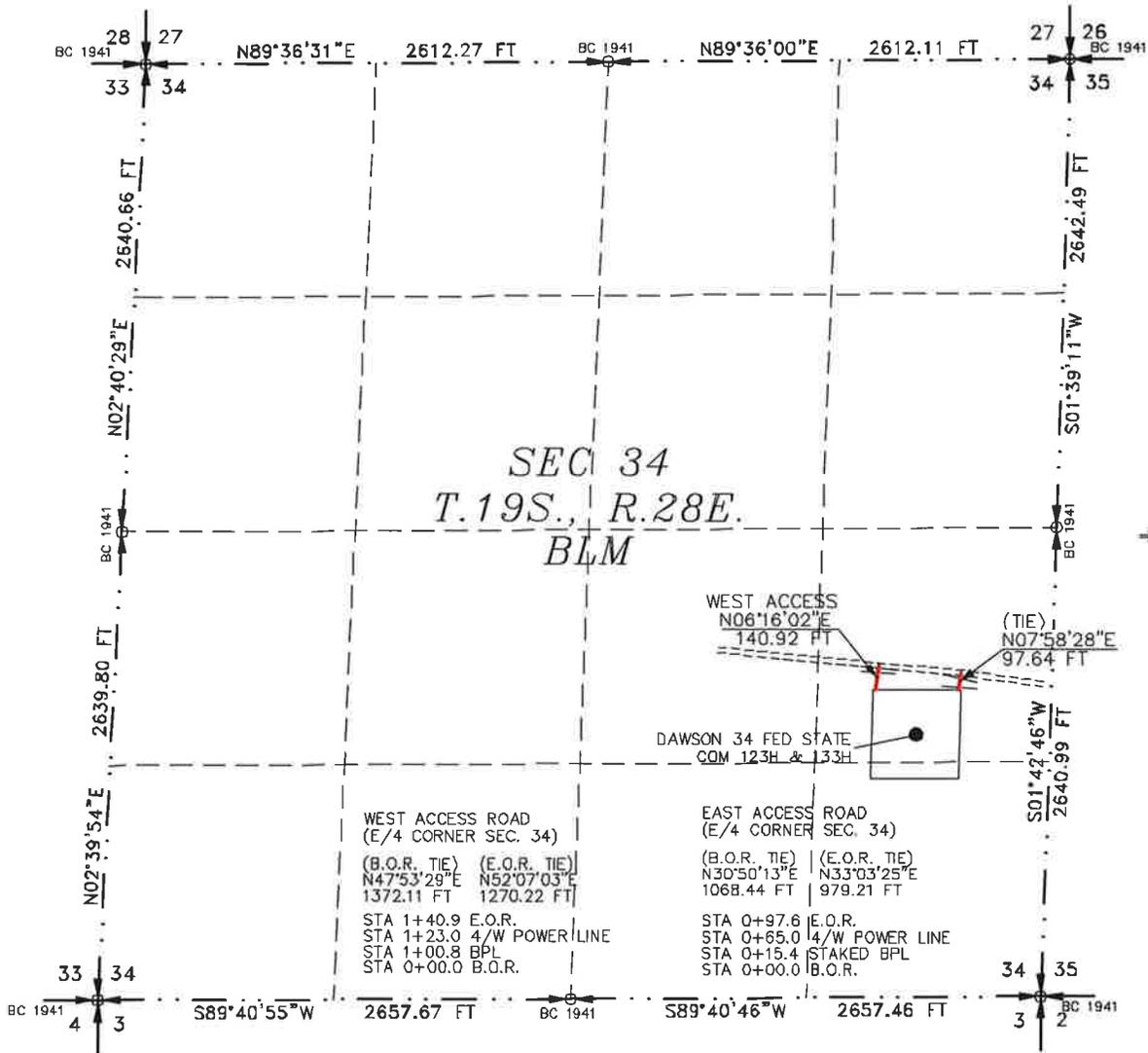
EARTHWORK QUANTITIES ARE ESTIMATED



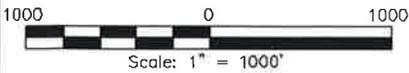
FEBRUARY 19, 2020  
 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 SHEET 2-2  
 SURVEY NO. 7983

**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.

**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 19<sup>TH</sup> DAY OF FEBRUARY 2020

FILIMON F. JARAMILLO  
12797  
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 7983

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

**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 19<sup>TH</sup> 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. 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

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

<sup>10</sup> Surface Location

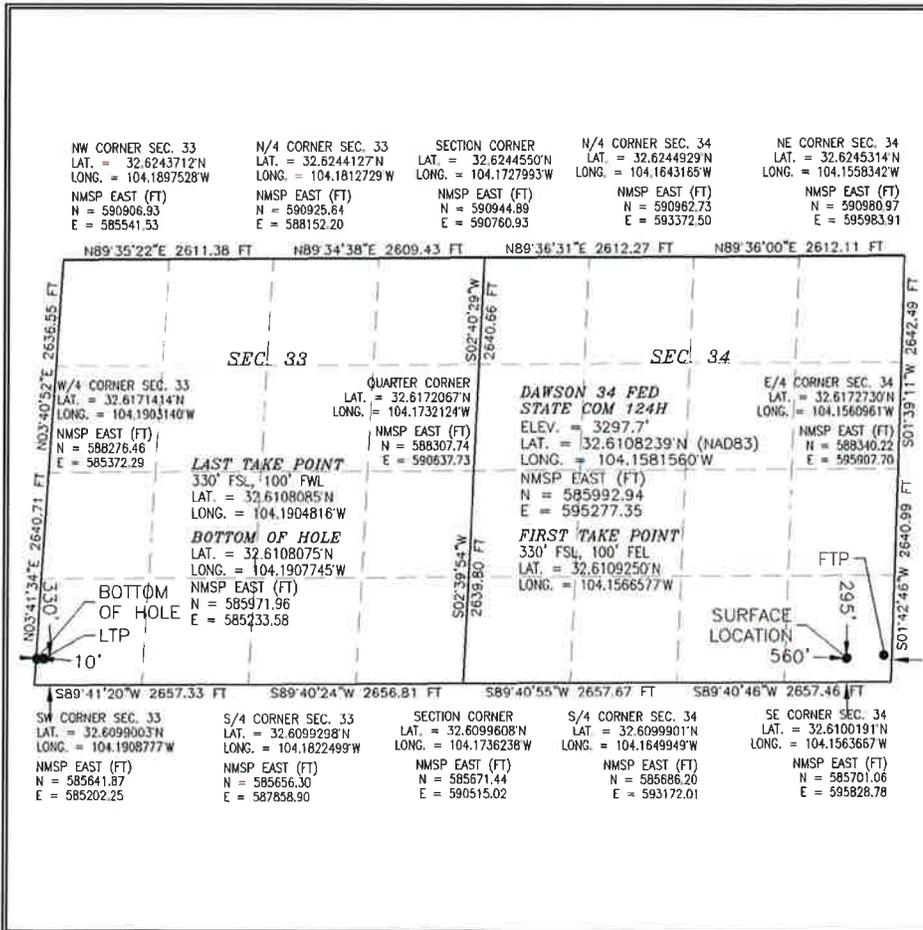
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	34	19 S	28 E		295	SOUTH	560	EAST	EDDY

<sup>11</sup> 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		330	SOUTH	10	WEST	EDDY

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



**<sup>17</sup> 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 \_\_\_\_\_

**<sup>18</sup> 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: JARAMA LOPEZ 12797  
Professional Surveyor No. 7981



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

Last Take Point (LTP)

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

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

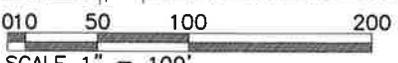
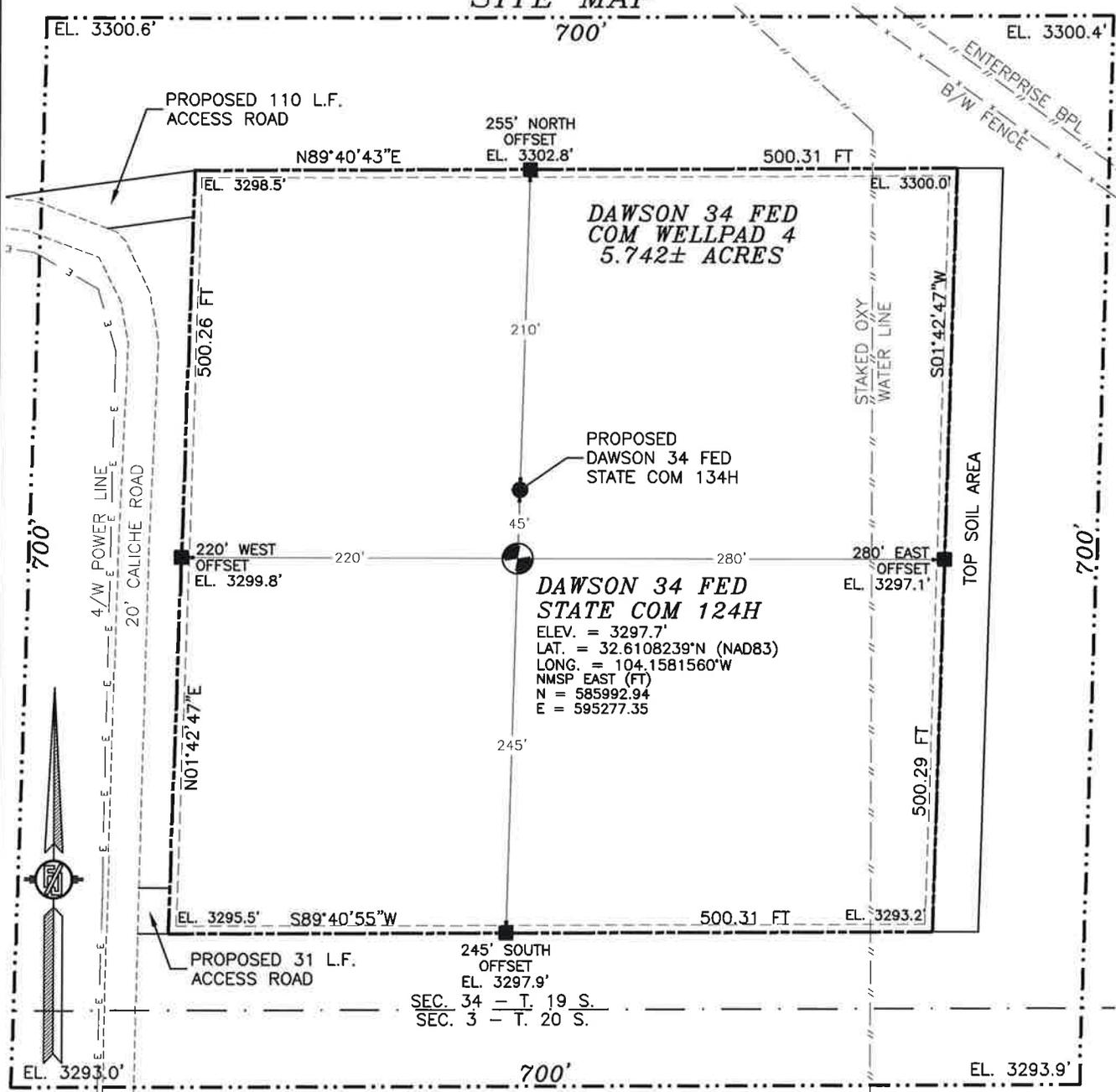
Is this well an infill well?

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



**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 1.55 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 0.1 MILES TO ROAD SURVEY AND FOLLOW FLAGS EAST 110' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

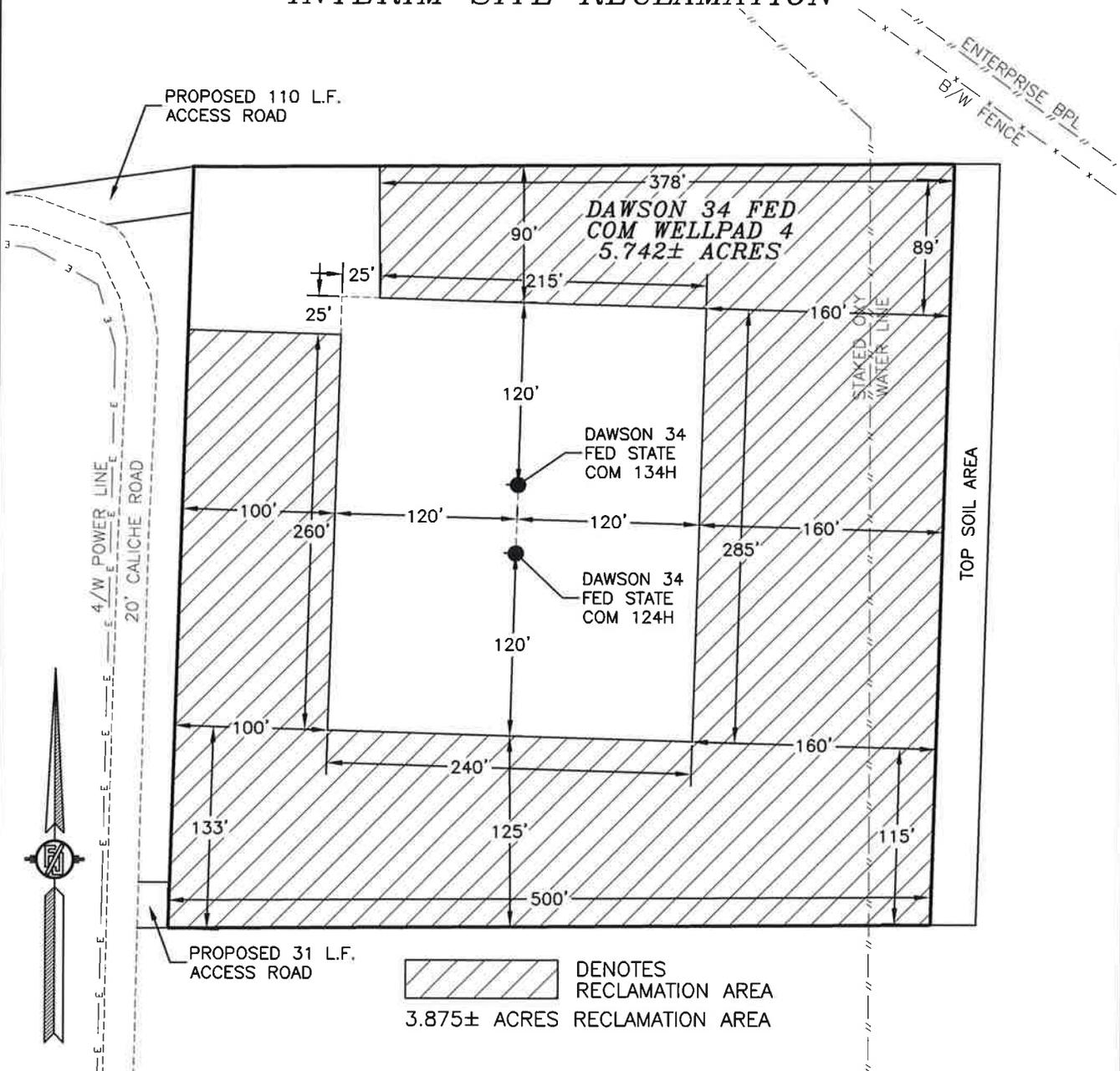
I, FILMON F. BARRILLLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12700, DO HEREBY CERTIFY THAT THIS SURVEY, THAT I HAVE MADE, IS A TRUE AND CORRECT STATEMENT OF MY KNOWLEDGE AND BELIEF, AND THAT I AM AWARE OF THE MINIMUM STANDARDS FOR THIS SURVEY.

FILMON F. BARRILLLO, REGISTERED PROFESSIONAL SURVEYOR  
 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (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

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



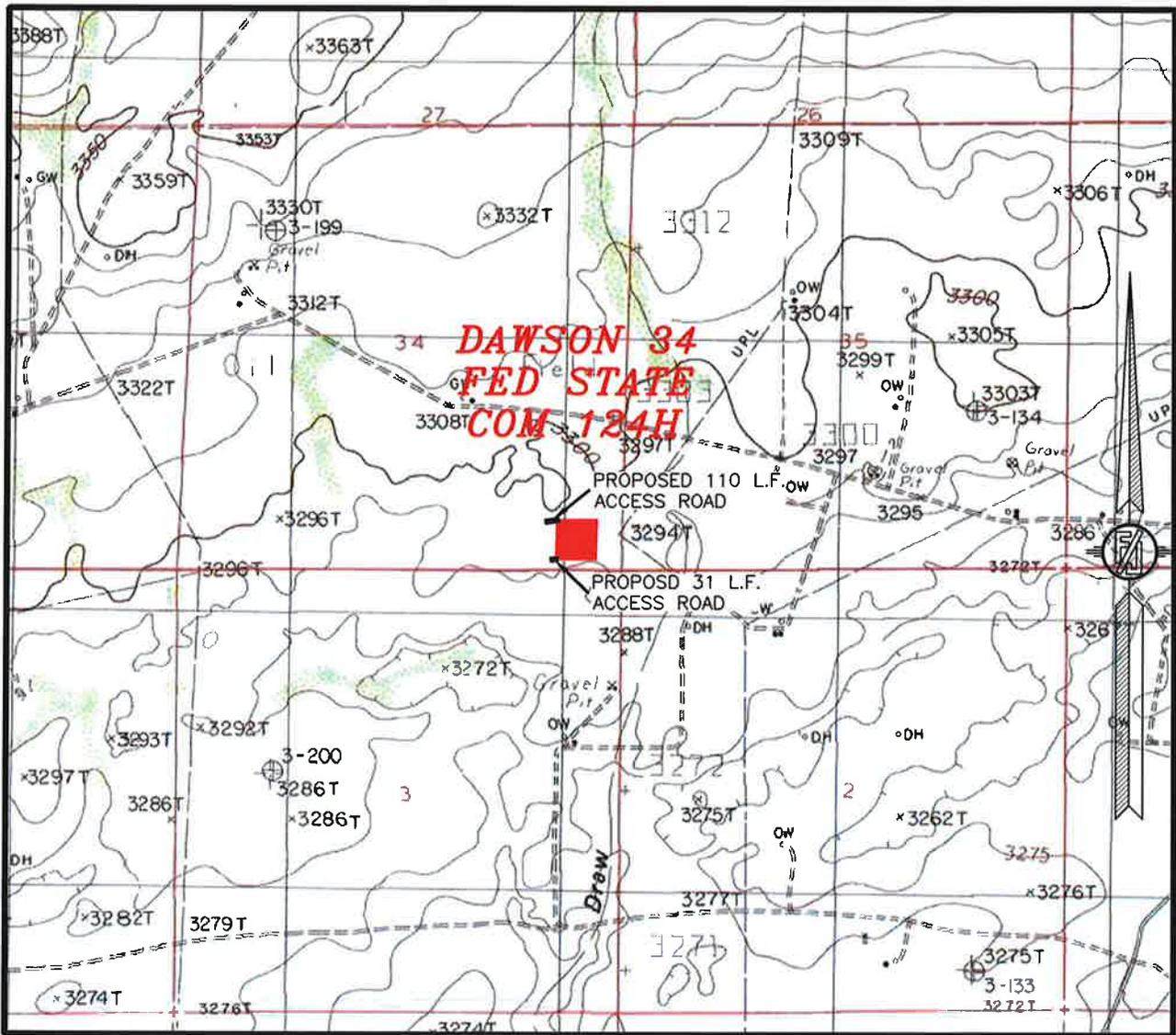
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 124H**  
LOCATED 295 FT. FROM THE SOUTH LINE  
AND 560 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

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

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

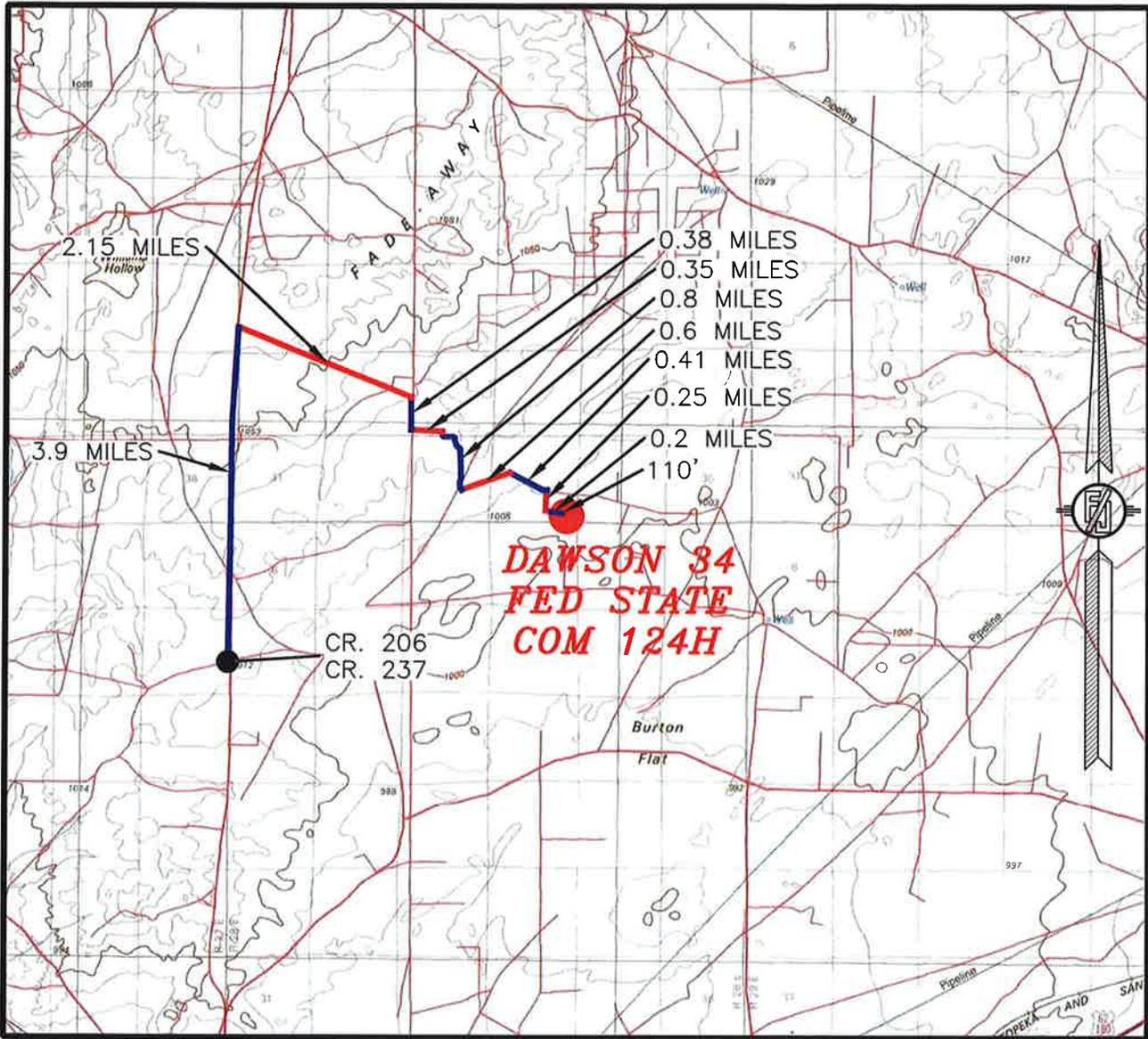
**COLGATE OPERATING, LLC**  
**DAWSON 34 FED STATE COM 124H**  
LOCATED 295 FT. FROM THE SOUTH LINE  
AND 560 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

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 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.

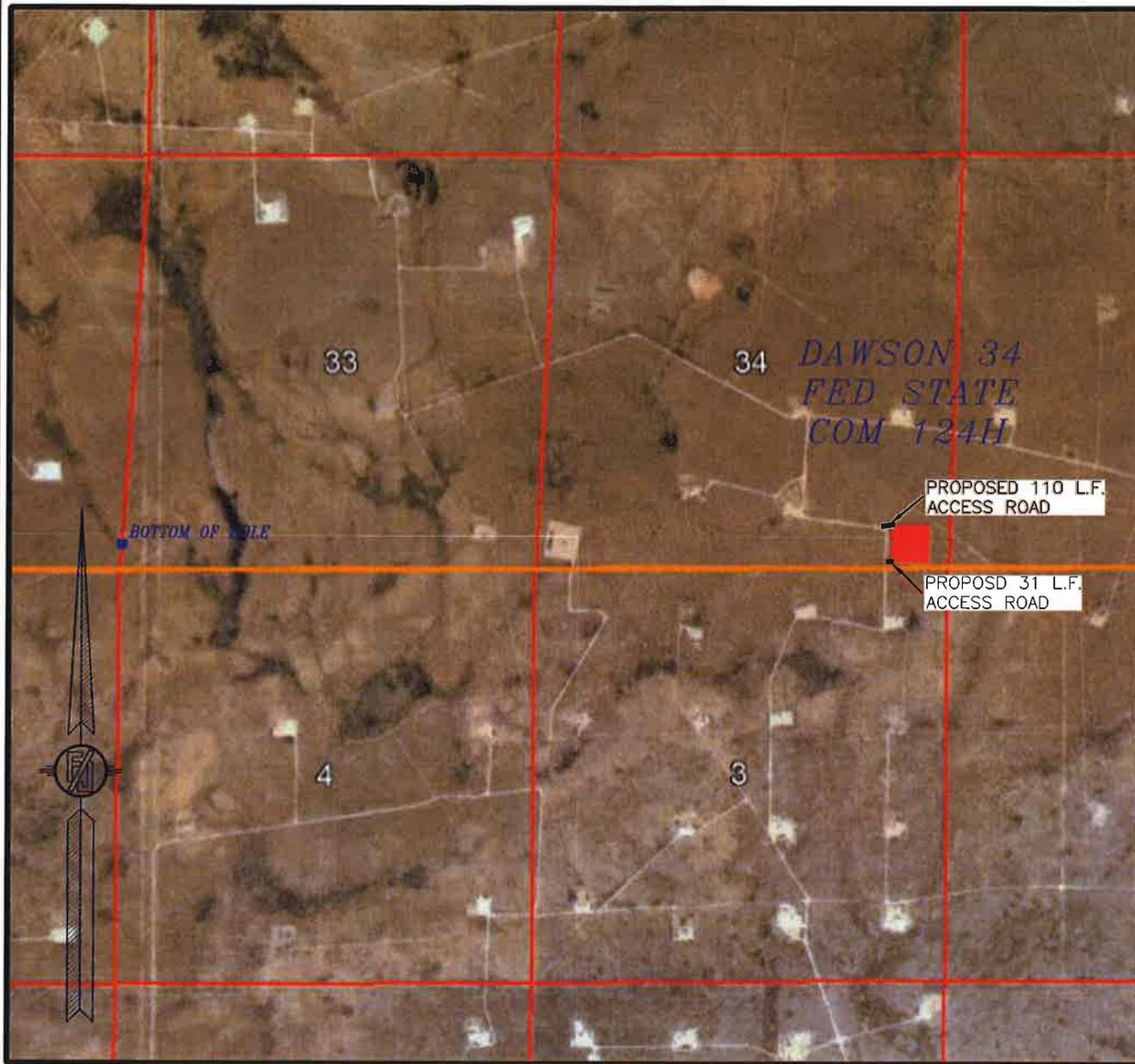
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 124H**  
 LOCATED 295 FT. FROM THE SOUTH LINE  
 AND 560 FT. FROM THE EAST LINE OF  
 SECTION 34, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

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  
AERIAL PHOTO



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

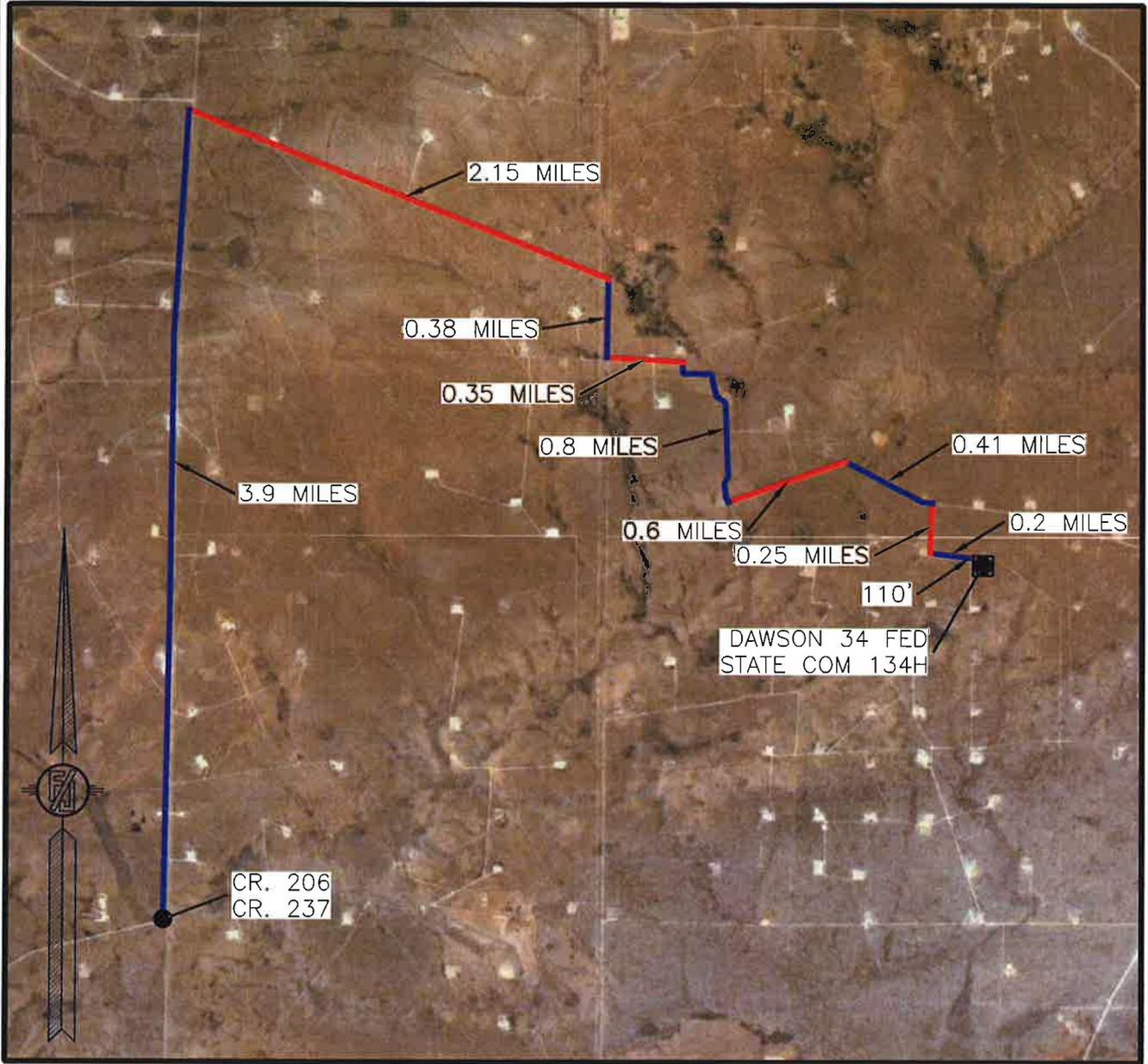
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 124H**  
LOCATED 295 FT. FROM THE SOUTH LINE  
AND 560 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7981

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 254-3344

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

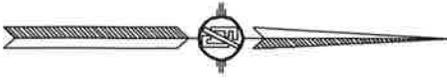
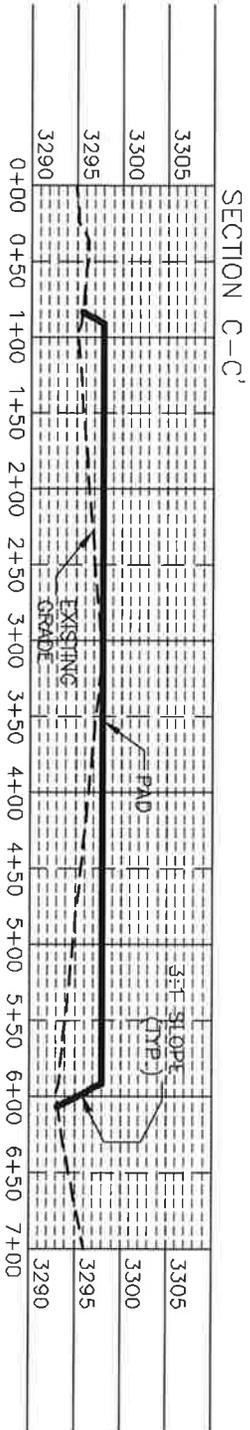
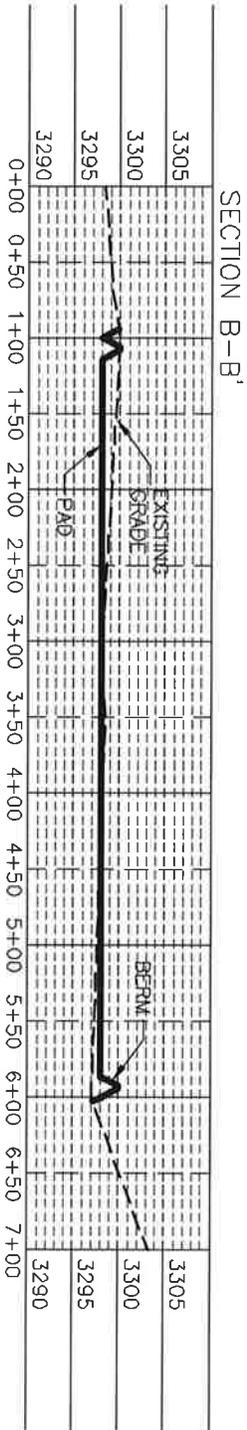
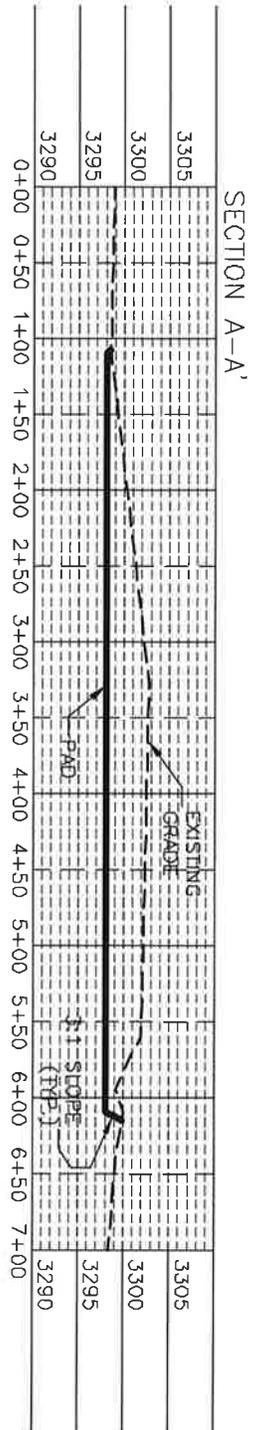
FEBRUARY 14, 2020

SURVEY NO. 7981

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



# CROSS-SECTIONS



I, FILMON F. JARAMA, LICENSED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12291, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND SKILLS AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



COLGATE 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

SCALE 1" = 120' - 1" = 20' VER

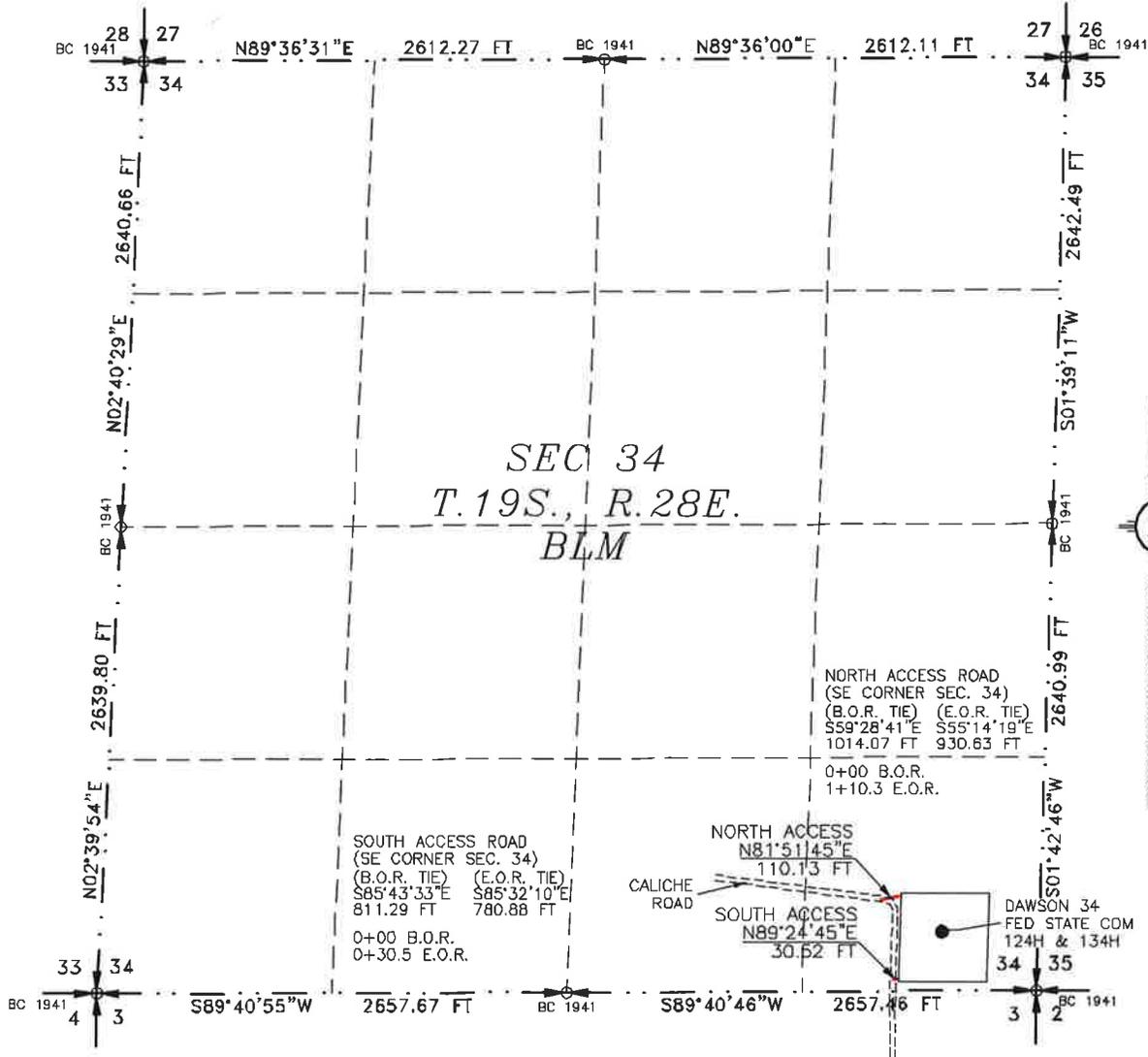
CUT	FILL	NET
9729 CU. YD.	6064 CU. YD.	3665 CU. YD. (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

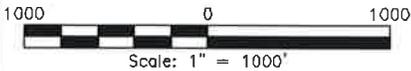
FEBRUARY 14, 2020  
 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 SHEET 2-2  
 SURVEY NO. 7981

**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.** 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 SURVEYOR CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14th 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. 7981**

**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<sup>TH</sup> DAY OF FEBRUARY 2020



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

**SURVEY NO. 7981**

**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

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

<sup>10</sup> Surface Location

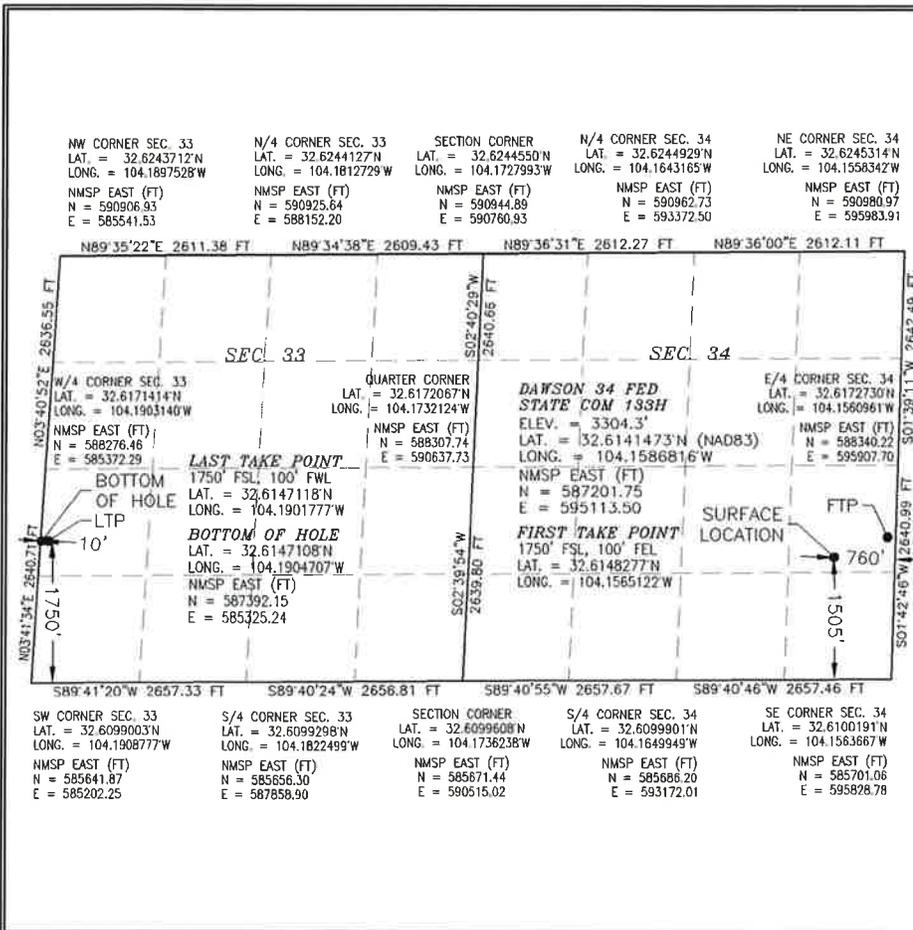
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>I</b>	<b>34</b>	<b>19 S</b>	<b>28 E</b>		<b>1505</b>	<b>SOUTH</b>	<b>760</b>	<b>EAST</b>	<b>EDDY</b>

<sup>11</sup> 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
<b>L</b>	<b>33</b>	<b>19 S</b>	<b>28 E</b>		<b>1750</b>	<b>SOUTH</b>	<b>10</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



**<sup>17</sup> 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 \_\_\_\_\_

**<sup>18</sup> 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: 12797



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?

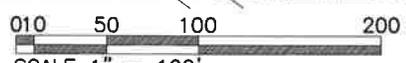
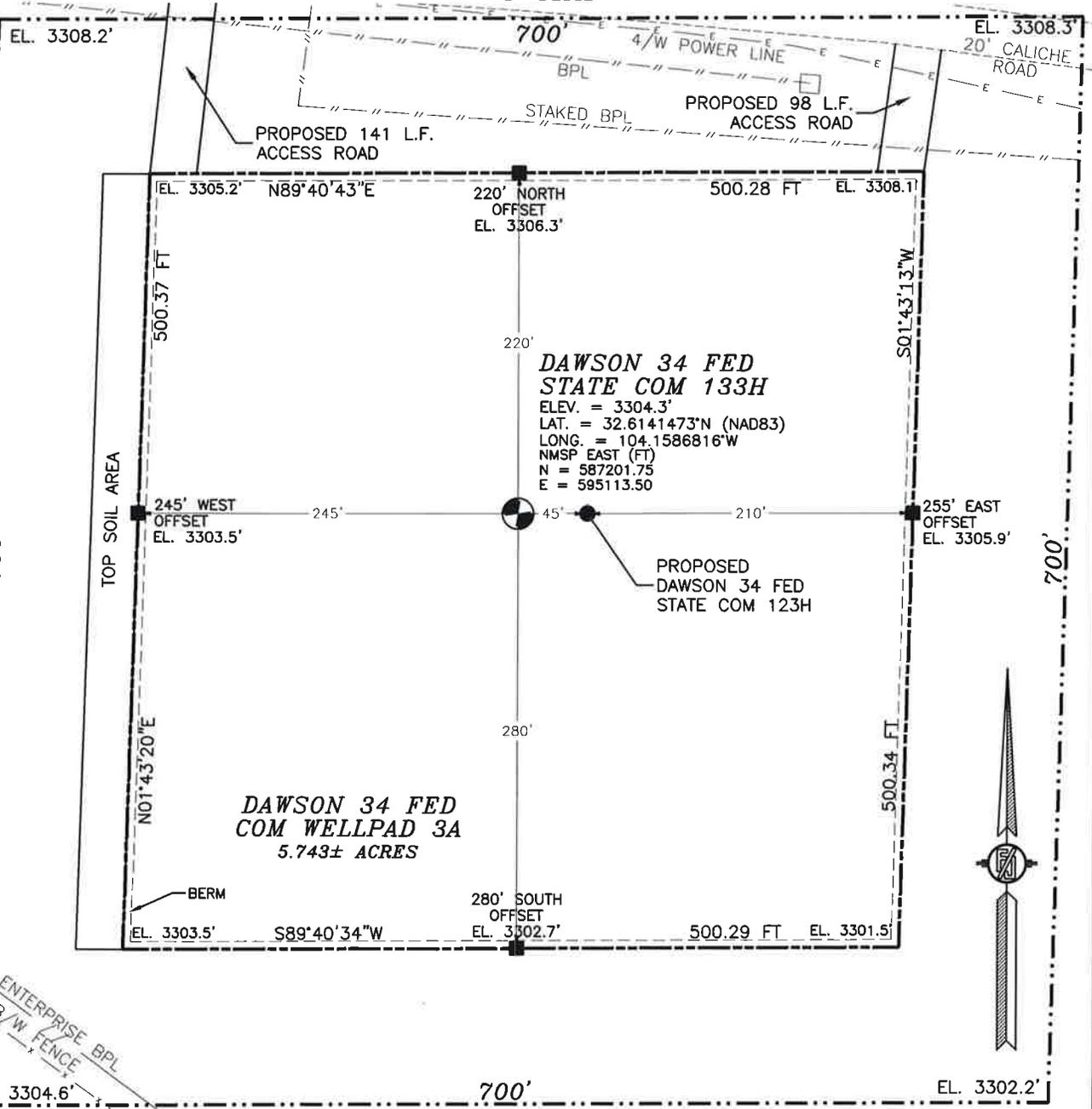
Is this well an infill well?

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



**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 ALROAD, SURVEY AND FOLLOW FLAGS 141' SOUTH TO THE NORTHWEST 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

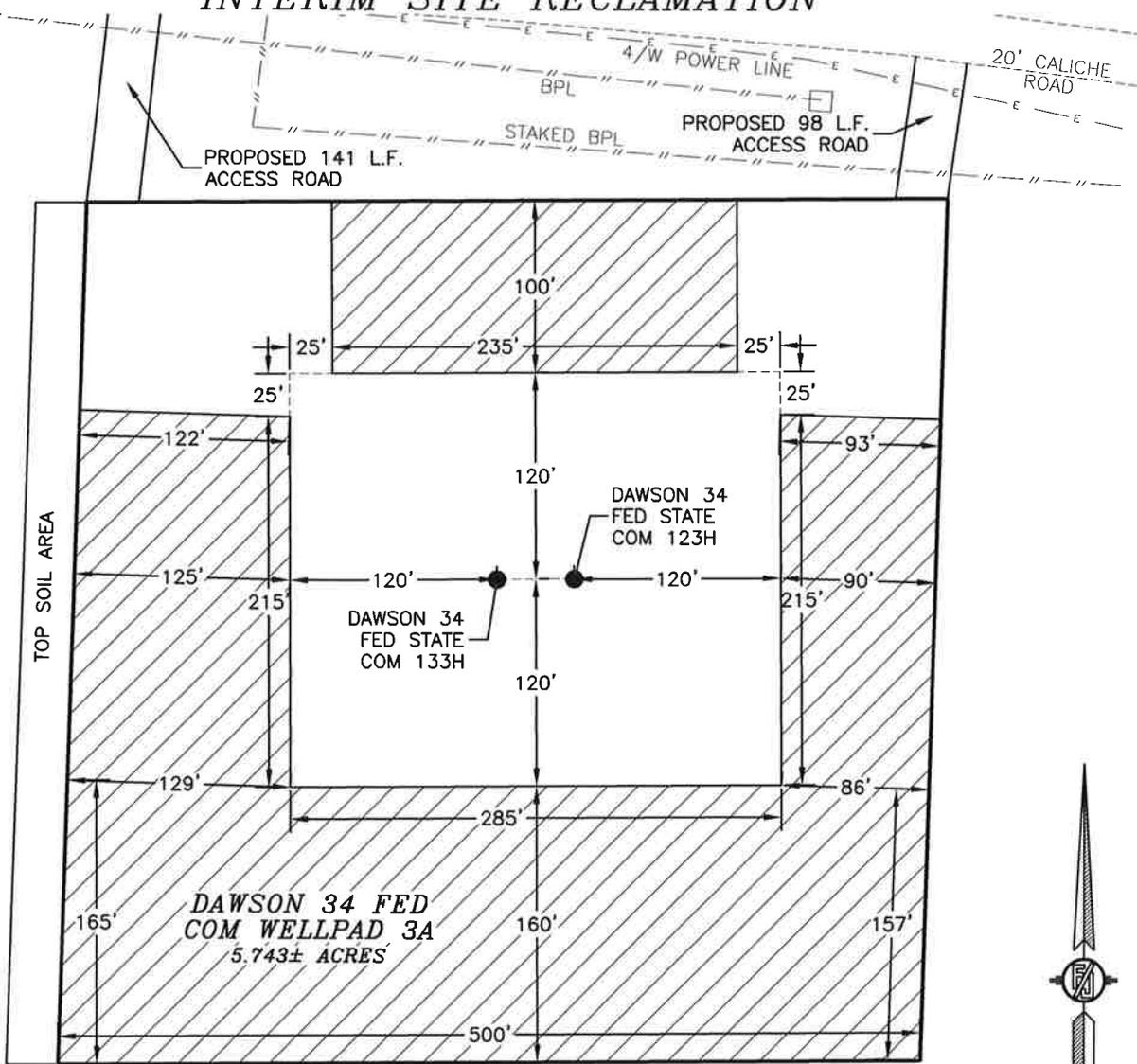
FEBRUARY 19, 2020

SURVEY NO. 7984

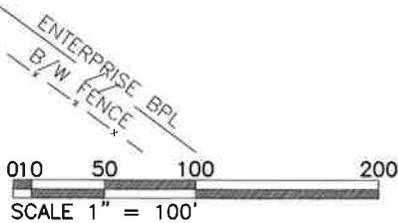
**MADRON SURVEYING, INC.** 301 SOUTH CANAL  
(575) 234-3341

**CARLSBAD, NEW MEXICO**

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



 DENOTES RECLAMATION AREA  
3.443± ACRES RECLAMATION AREA



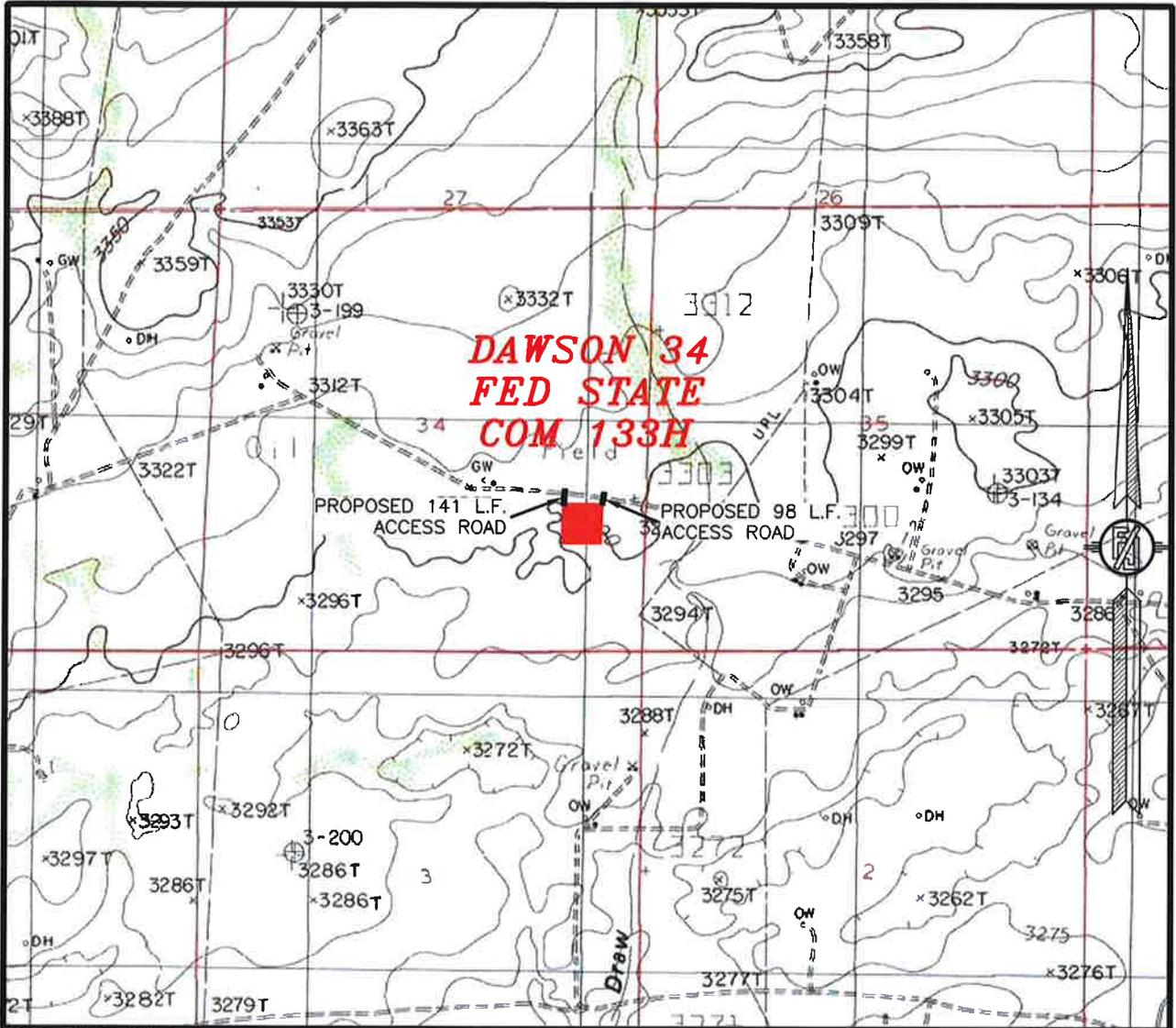
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 133H**  
LOCATED 1505 FT. FROM THE SOUTH LINE  
AND 760 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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  
LOCATION VERIFICATION MAP



USGS QUAD MAP:  
ANGEL DRAW

NOT TO SCALE

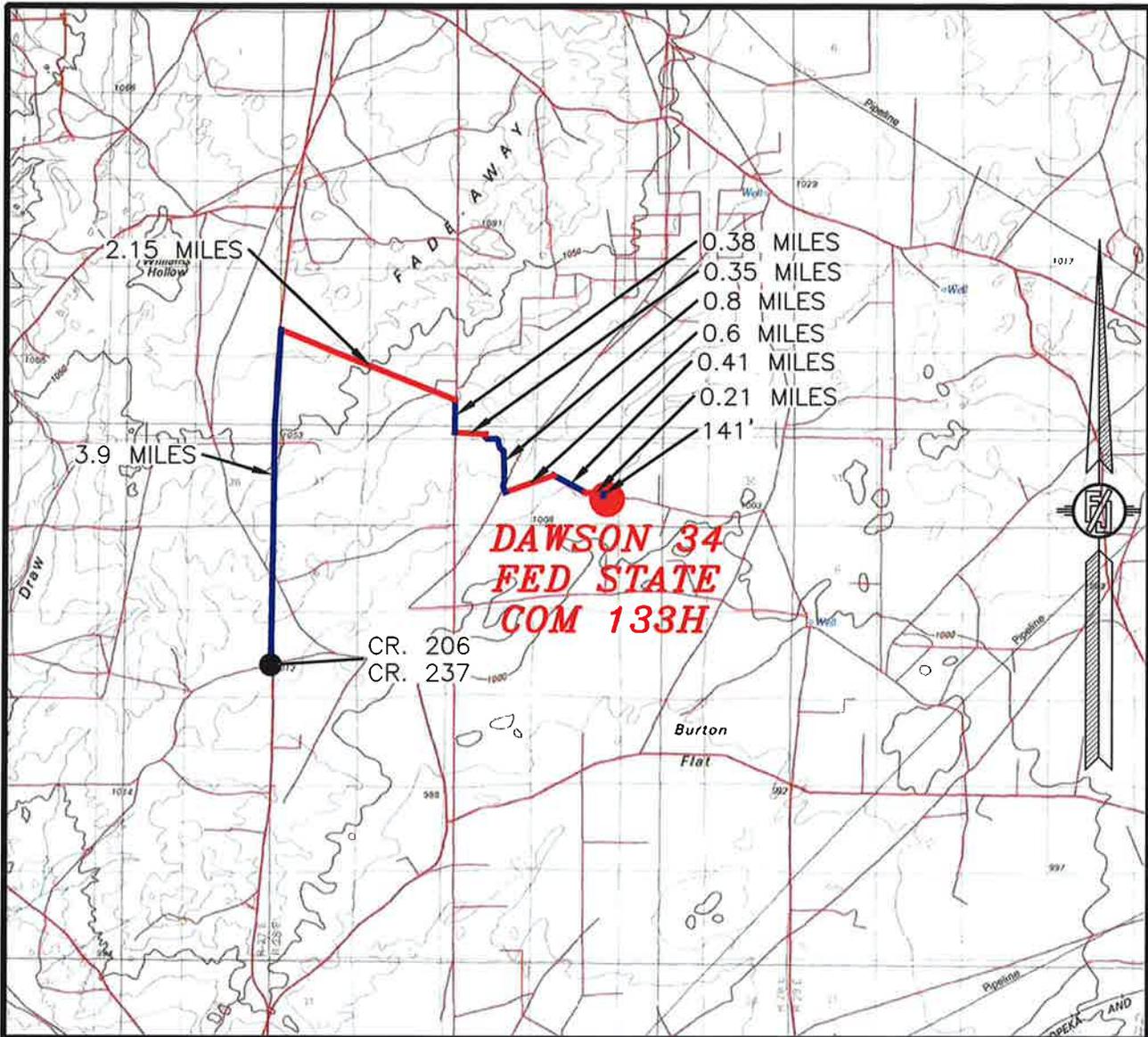
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 133H**  
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SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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.

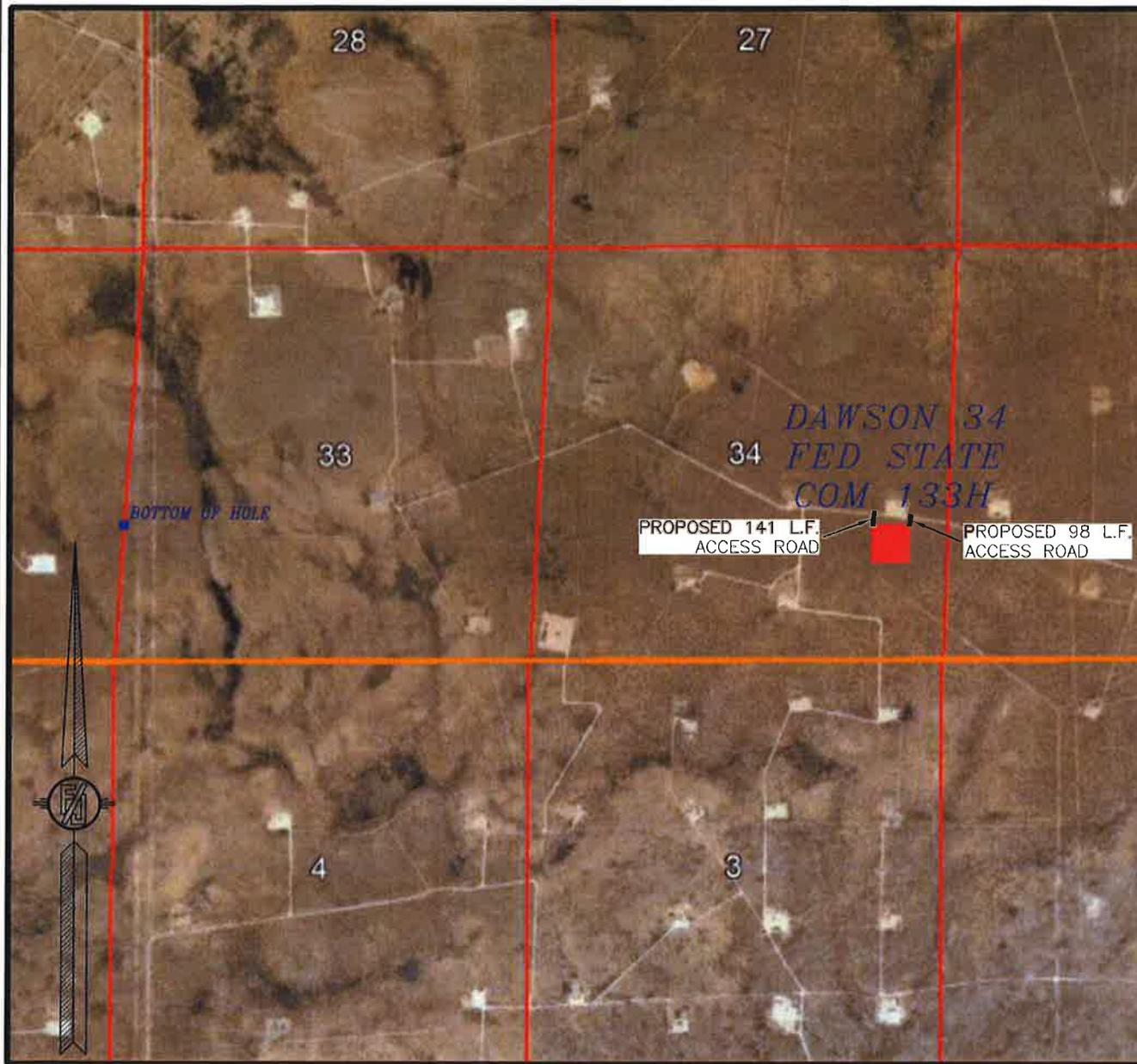
**COLGATE OPERATING, LLC**  
**DAWSON 34 FED STATE COM 133H**  
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 AND 760 FT. FROM THE EAST LINE OF  
 SECTION 34, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

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  
AERIAL PHOTO



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

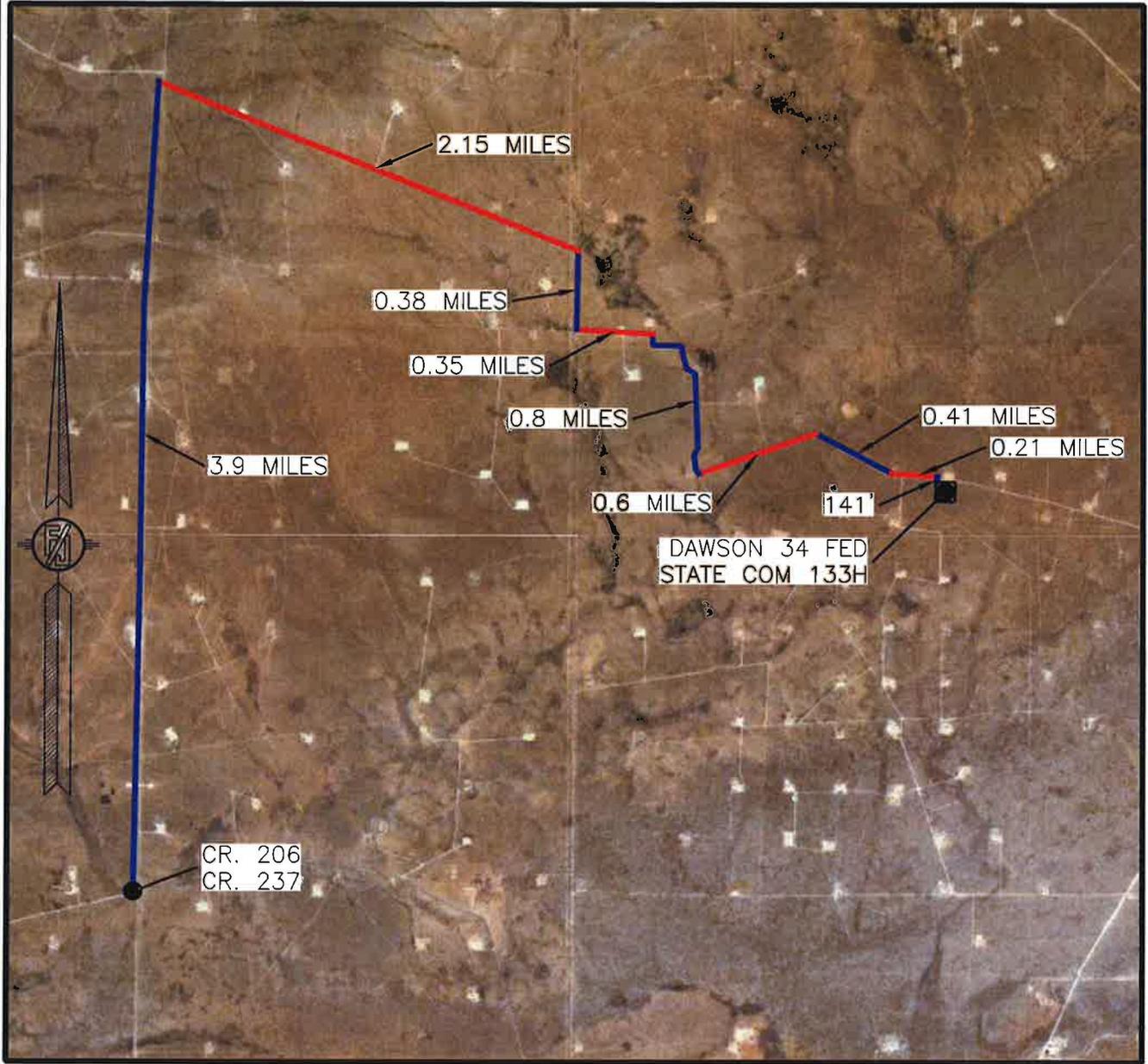
COLGATE OPERATING, LLC  
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AND 760 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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  
AERIAL ACCESS ROUTE MAP



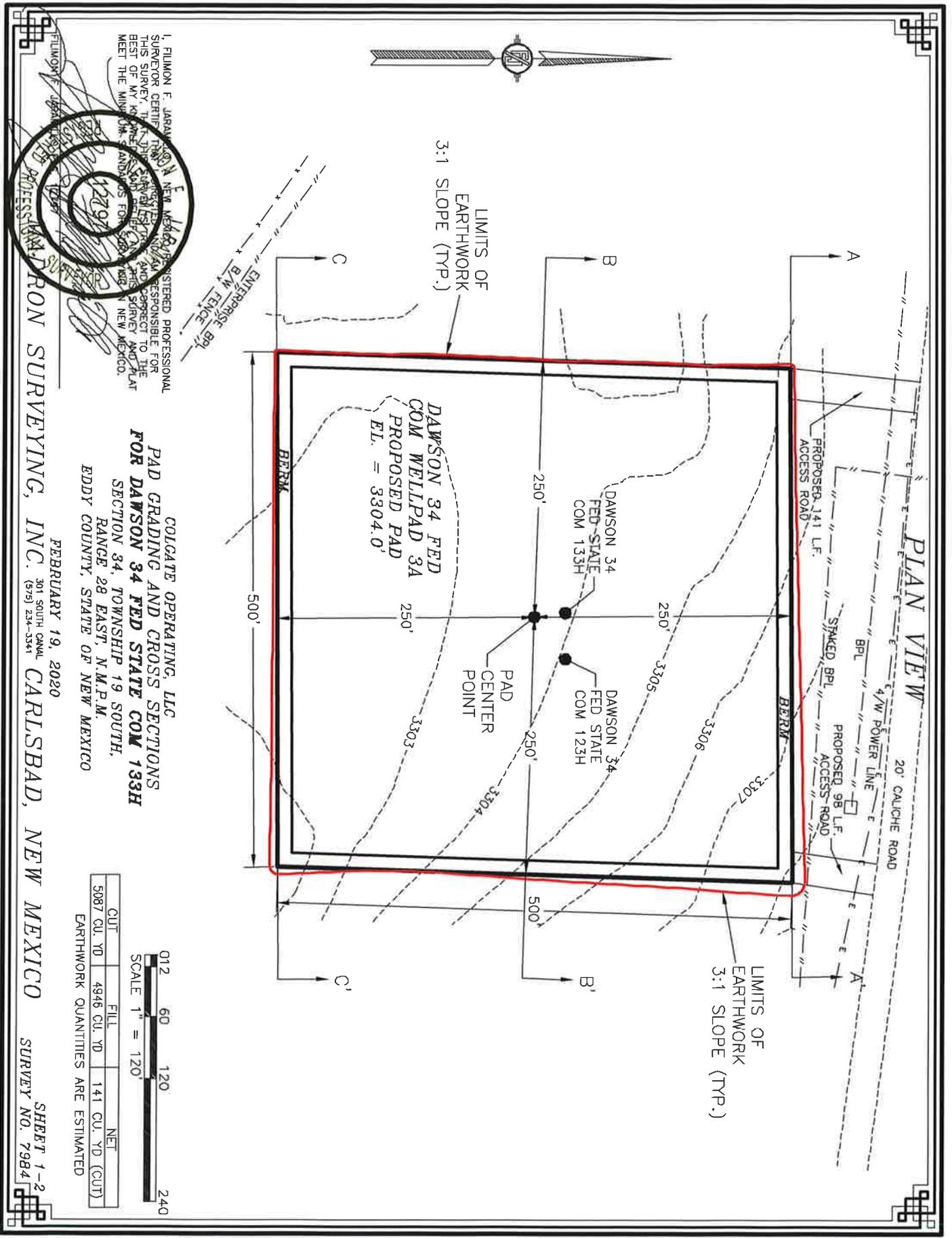
NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

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 CARLSBAD, NEW MEXICO  
(575) 234-3341



I, FILMON E. JARAVAY, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 11480, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED AND PLAT PREPARED IN ACCORDANCE WITH THE STANDARDS FOR 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  
 (505) 234-3344

**CARLSBAD, NEW MEXICO**

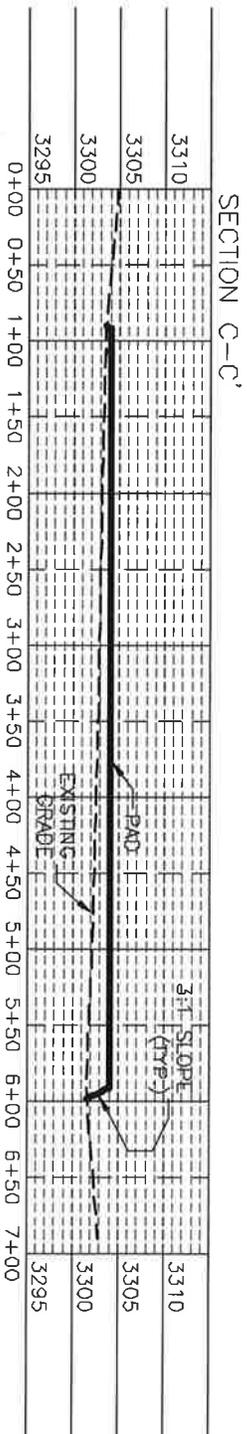
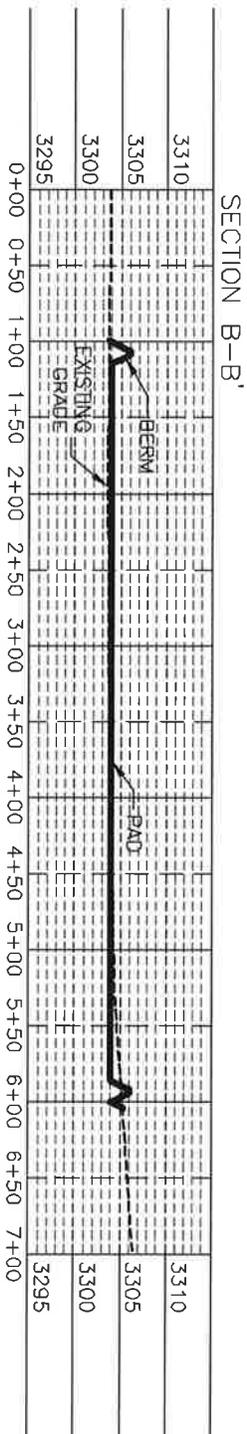
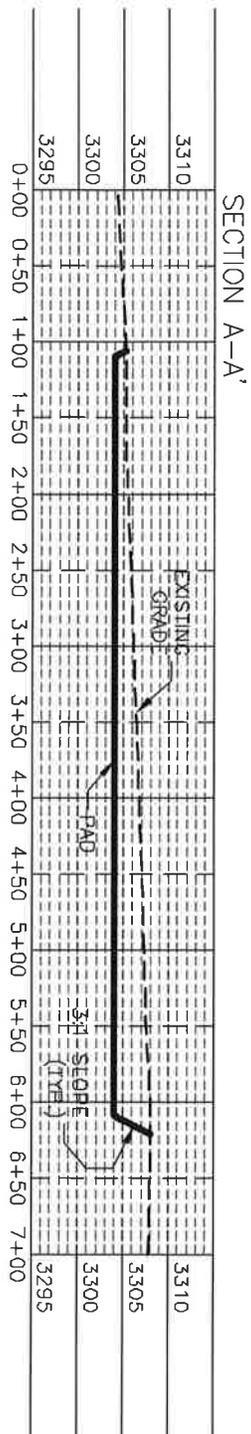
**SHEET 1-2**  
 SURVEY NO. 7984

SCALE 1" = 120'

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

EARTHWORK QUANTITIES ARE ESTIMATED

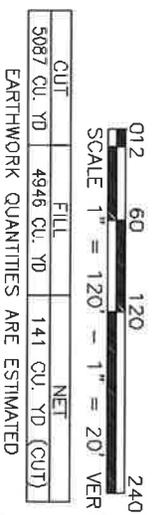
# CROSS-SECTIONS



I, FILMION F. JARAYAN, REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 11429, AM NOT RESPONSIBLE FOR THIS SURVEY, THE PLAN, THE SURVEY, THE DESIGN AND THE BEST OF MY KNOWLEDGE AND BELIEF, THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR THE STATE OF NEW MEXICO.



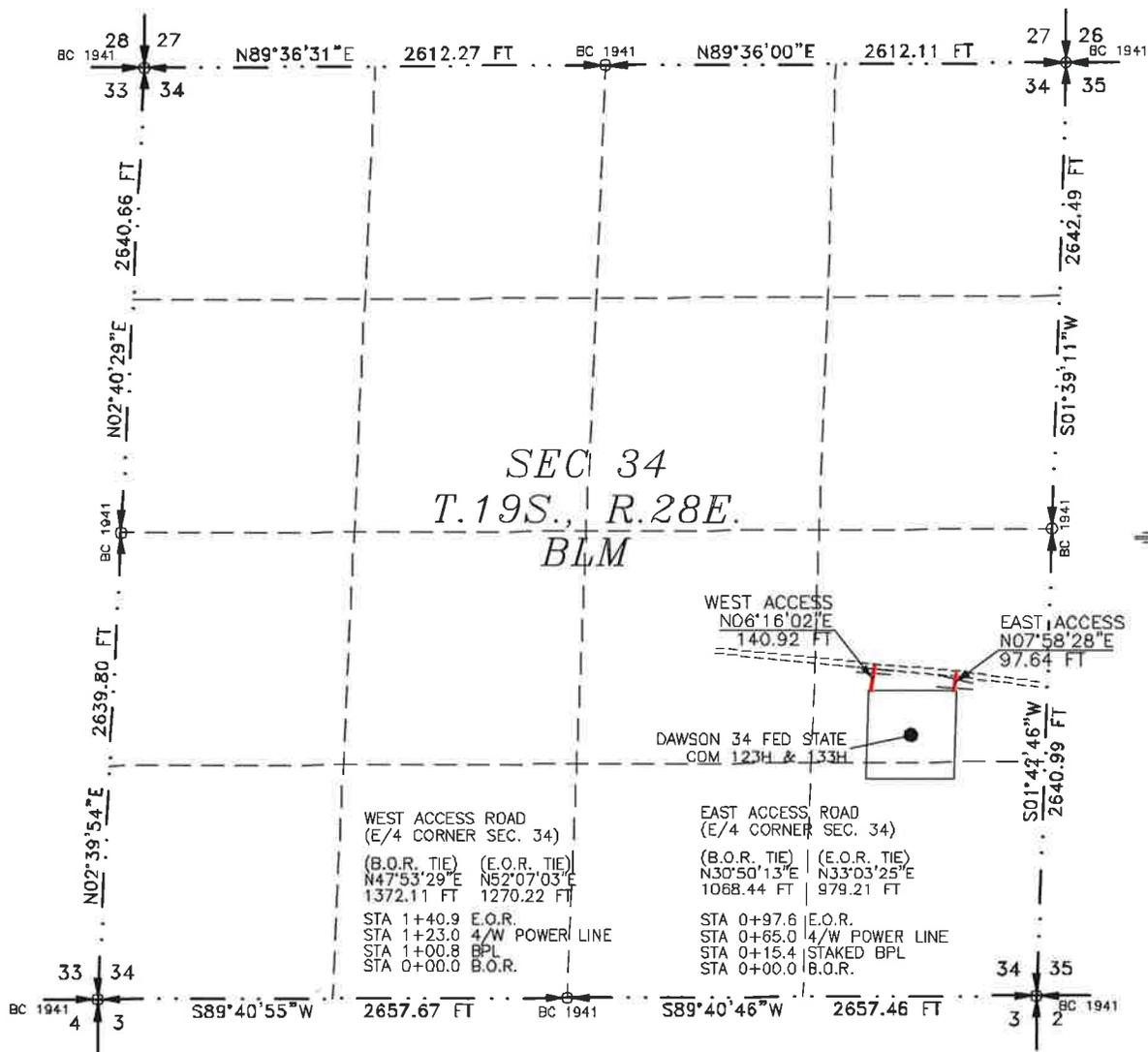
COLGATE OPERATING, LLC  
 PAD GRADING AND CROSS SECTIONS  
 FOR DAWSON 34 FED STATE COM 133H  
 SECTION 34, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO



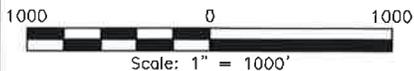
FILMION F. JARAYAN, REGISTERED PROFESSIONAL SURVEYOR, INC. 301 SOUTH GUAL, (975) 234-3344  
 FEBRUARY 19, 2020  
 CARLSBAD, NEW MEXICO  
 SHEET 2-2  
 SURVEY NO. 7984

**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



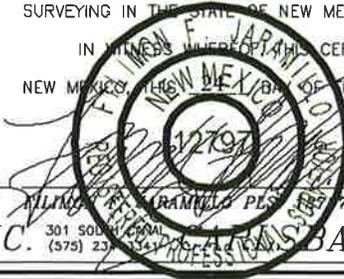
SEE NEXT SHEET (2-2) FOR DESCRIPTION



**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 19<sup>TH</sup> DAY OF FEBRUARY 2020



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

SURVEY NO. 7984

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (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: 1-2

**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

**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.

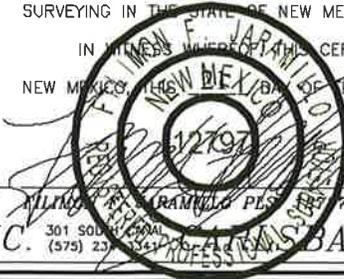
SHEET: 2-2

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

**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 19<sup>TH</sup> DAY OF FEBRUARY 2020



MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (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

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

<sup>10</sup> 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

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

The diagram shows a survey plat for sections 33 and 34. It includes coordinates for various corners (NW, N/4, NE, SE, SW, S/4, SE), quarter corners, and section corners. Key features include:  
 - **DAWSON 34 FED STATE COM 134H** well location with coordinates: LAT. = 32.6109475°N (NADB3), LONG. = 104.1581513°W.  
 - **LAST TAKE POINT** (LTP) at 430' FSL, 100' FWL: LAT. = 32.6110834°N, LONG. = 104.1904602°W.  
 - **BOTTOM OF HOLE** location: LAT. = 32.6110823°N, LONG. = 104.1907531°W.  
 - **FIRST TAKE POINT** (FTP) at 430' FSL, 100' FEL: LAT. = 32.6111998°N, LONG. = 104.1568475°W.  
 - **SURFACE LOCATION** at 560' distance from the well.  
 - **QUARTER CORNER** coordinates for sections 33 and 34.

**<sup>17</sup> 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 \_\_\_\_\_

**<sup>18</sup> 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



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

Last Take Point (LTP)

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

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

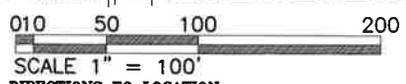
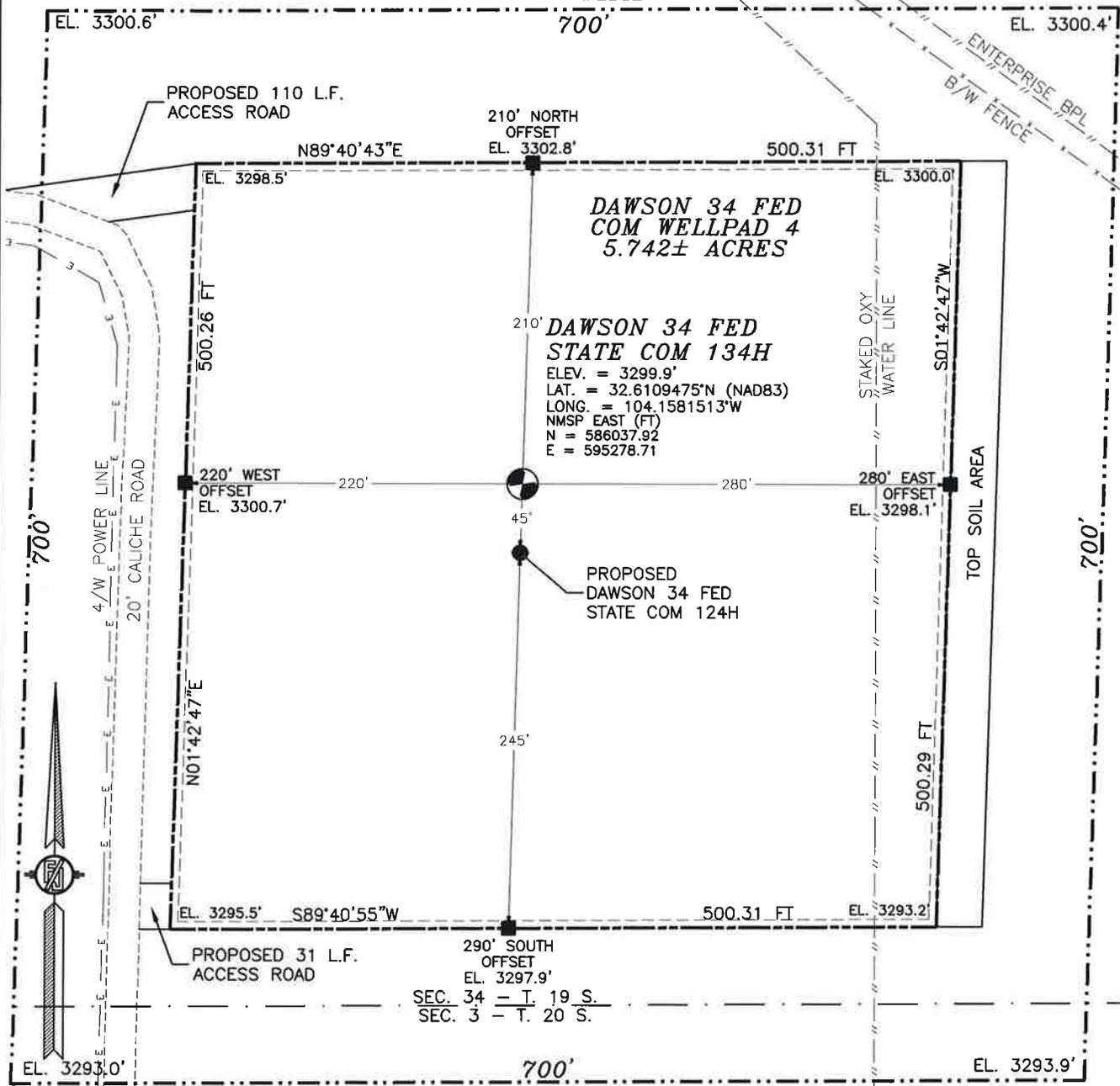
Is this well an infill well?

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



**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 0.8 MILES, TURN RIGHT AND GO SOUTHEAST 0.41 MILES, BEND 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 INFORMATION CONTAINED HEREIN IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT I AM NOT PROVIDING ANY MINIMUM STANDARDS OR SPECIFICATIONS FOR THIS SURVEY.

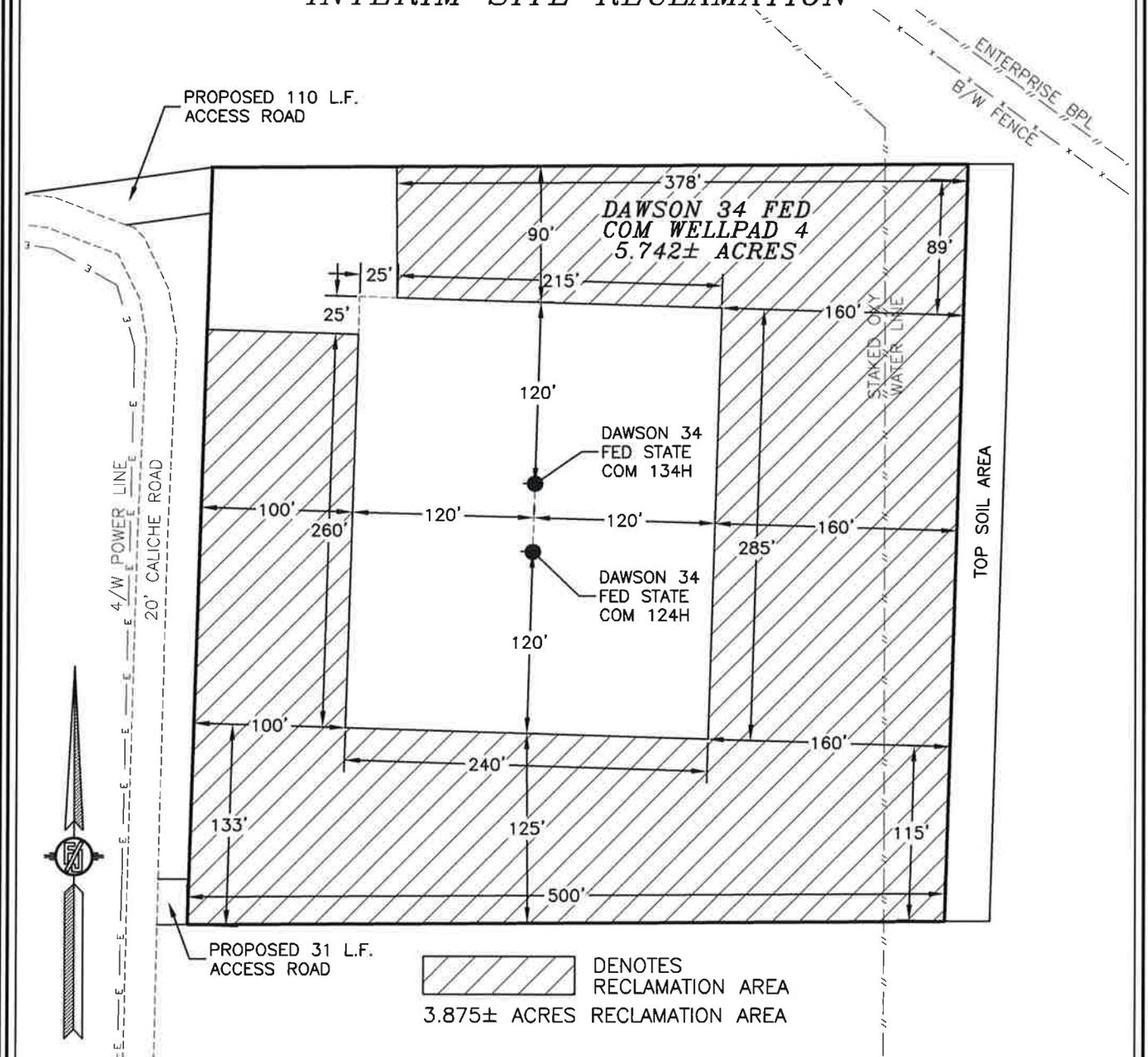
FILMON F. JARAMILLO, REGISTERED PROFESSIONAL SURVEYOR  
 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (575) 234-3341

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

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



 DENOTES RECLAMATION AREA  
3.875± ACRES RECLAMATION AREA

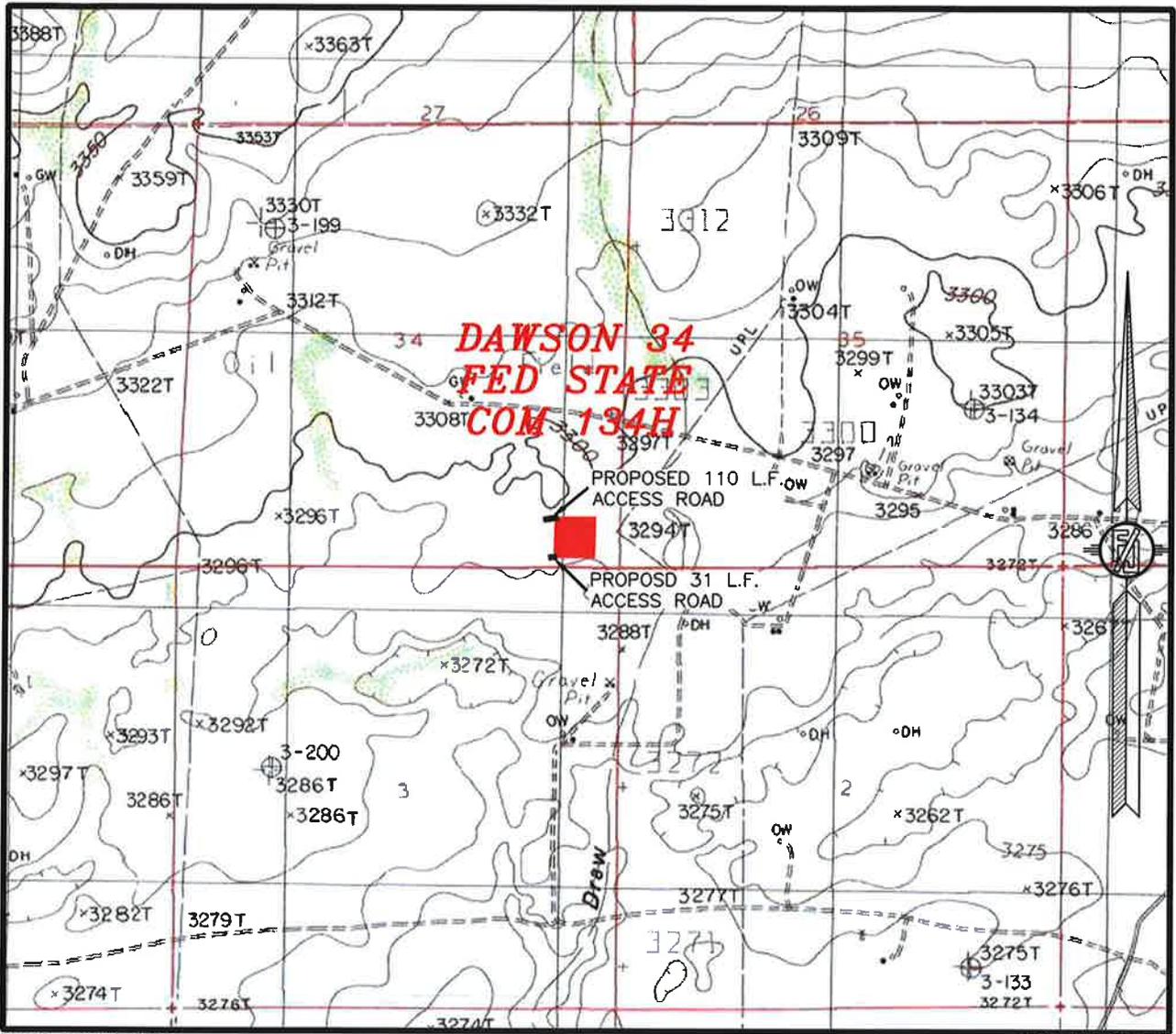
COLGATE OPERATING, LLC  
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 SECTION 34, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

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

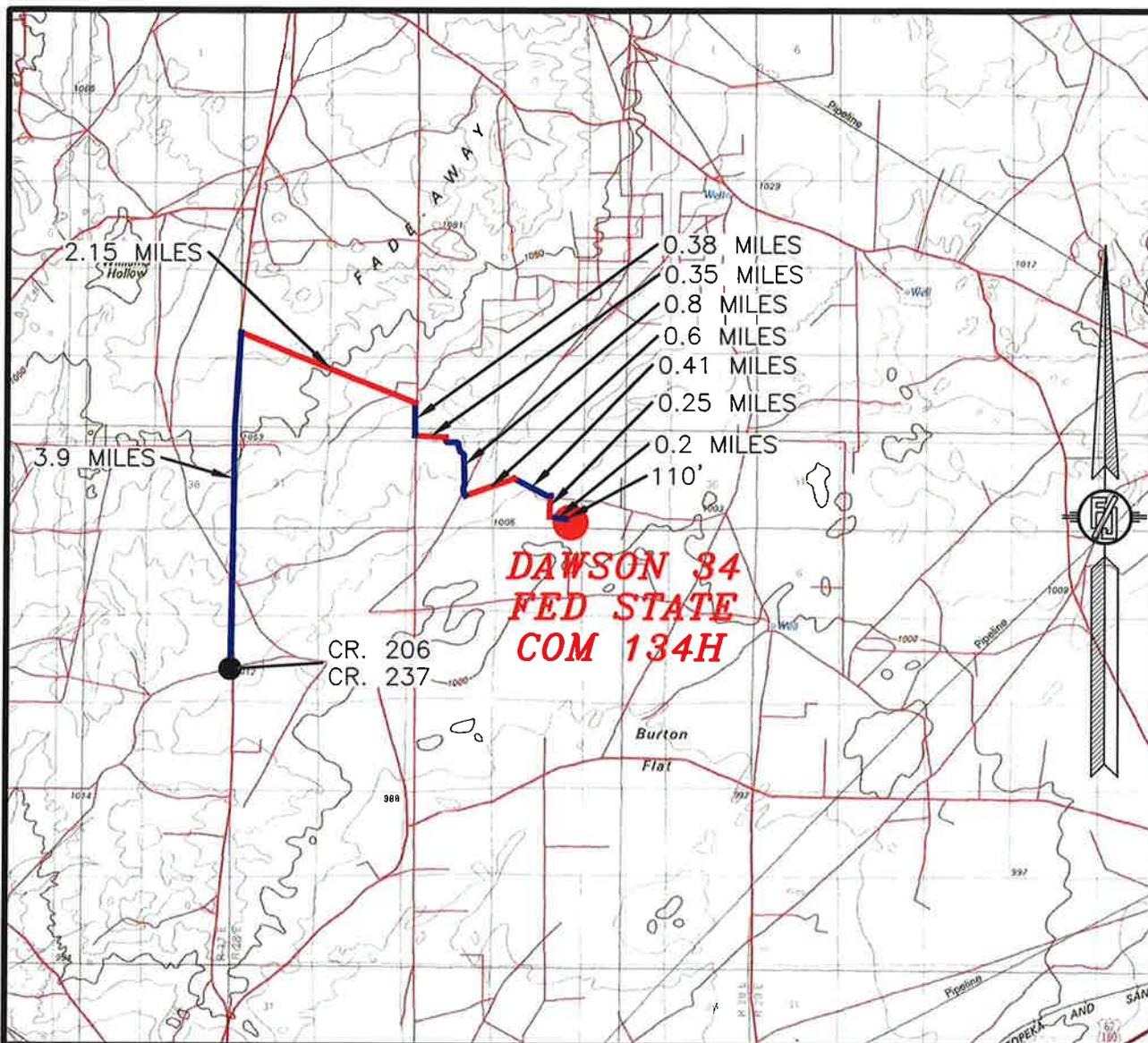
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 134H**  
LOCATED 340 FT. FROM THE SOUTH LINE  
AND 560 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

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  
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.

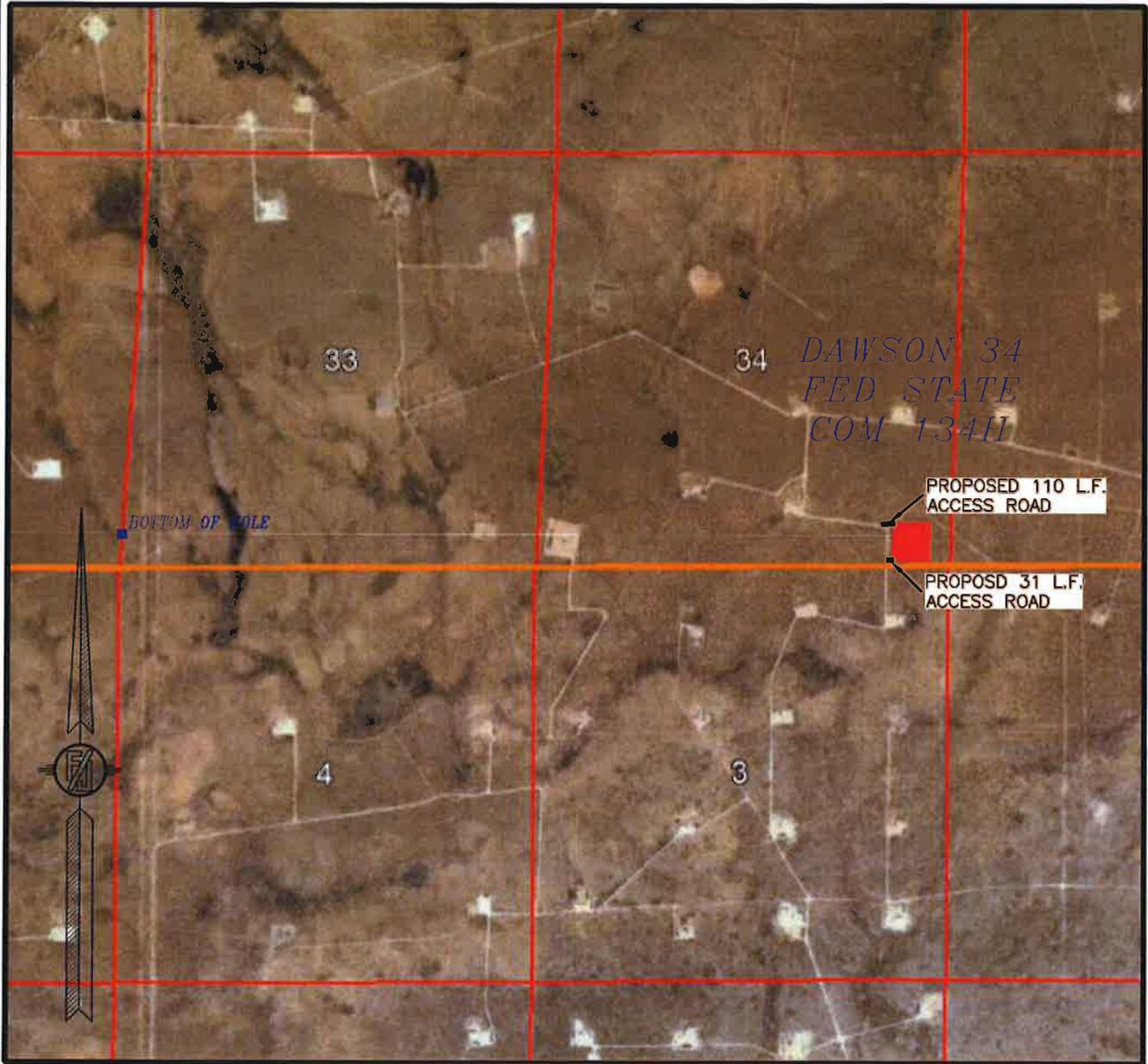
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 134H**  
 LOCATED 340 FT. FROM THE SOUTH LINE  
 AND 560 FT. FROM THE EAST LINE OF  
 SECTION 34, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

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  
AERIAL PHOTO



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

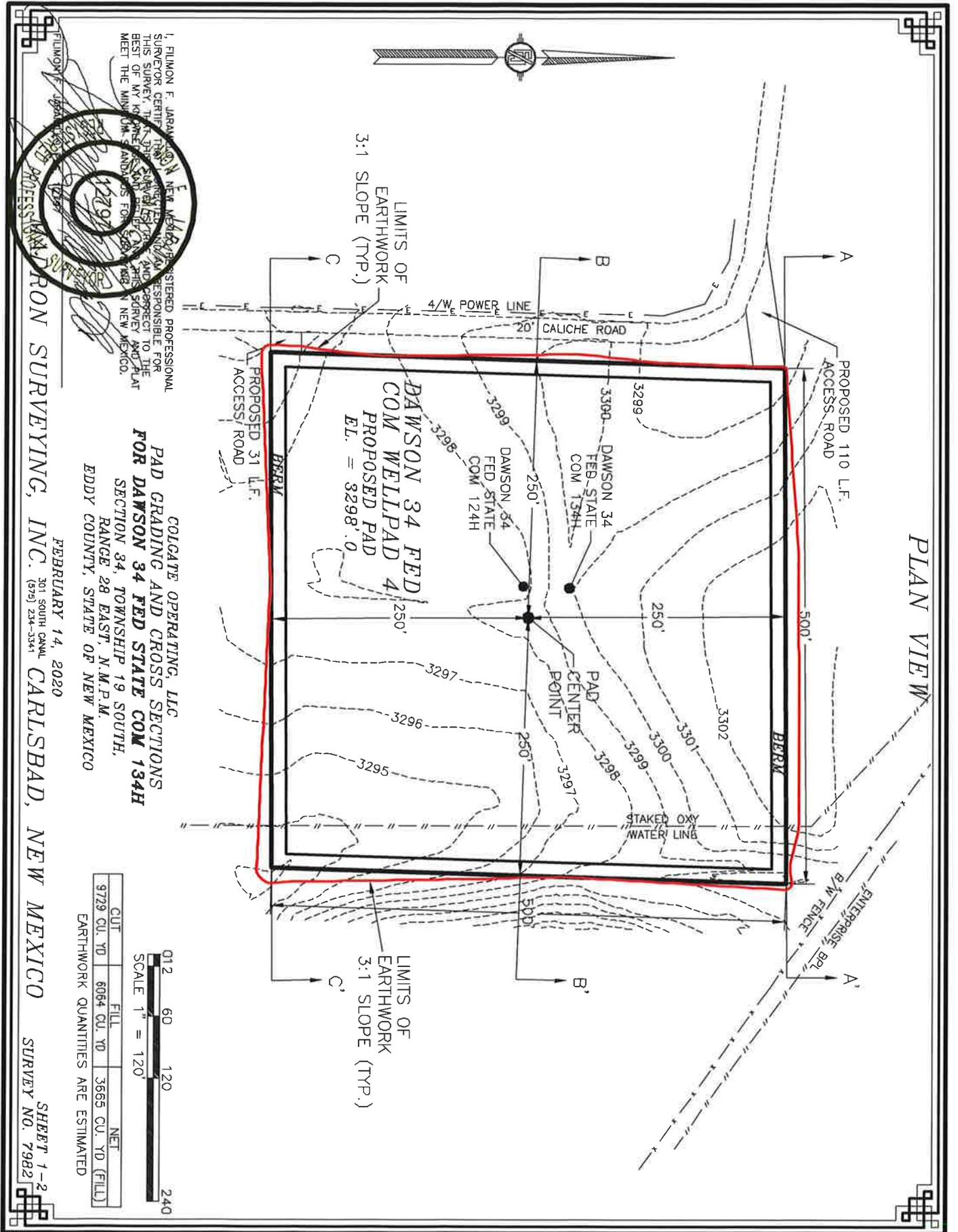
COLGATE OPERATING, LLC  
**DAWSON 34 FED STATE COM 134H**  
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SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7982

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





PLAN VIEW

I, FILMON F. JARAVAN, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12291, AM RESPONSIBLE FOR THIS SURVEY. TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS 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 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

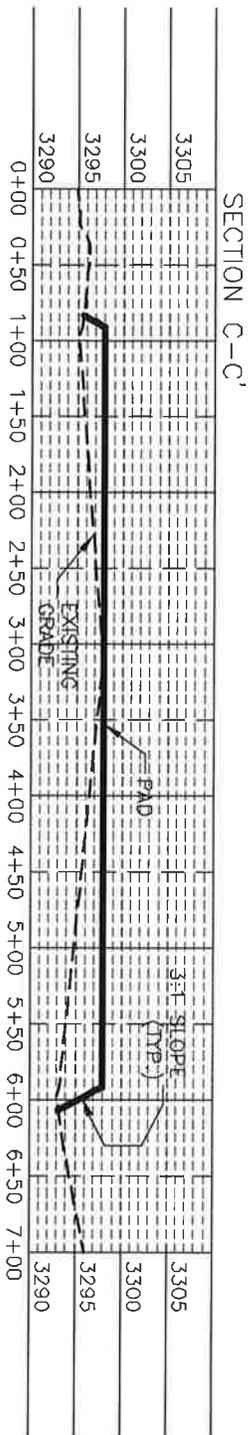
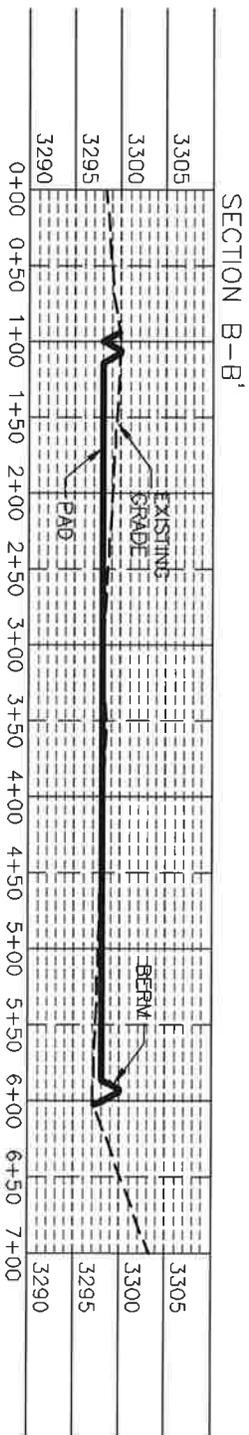
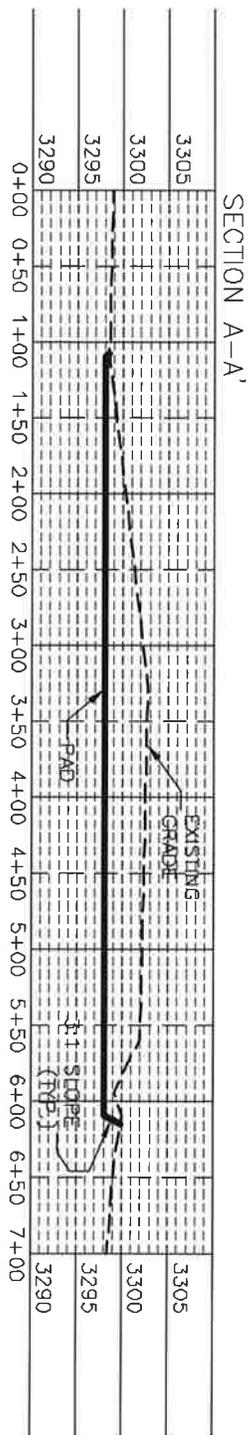
SHEET 1-2 SURVEY NO. 7982

CUT	FILL	NET
9729 CU. YD.	8064 CU. YD.	3665 CU. YD. (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED



# CROSS-SECTIONS



I, FILMON F. JARAYAN, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 11291, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS 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 134H**  
 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	CUT	FILL	CUT	FILL	CUT	FILL
9729 CU. YD	6084 CU. YD	3665 CU. YD	(FILL)				
EARTHWORK QUANTITIES ARE ESTIMATED							

FILMON F. JARAYAN  
 11291  
 REGISTERED PROFESSIONAL SURVEYOR

FEBRUARY 14, 2020  
 301 SOUTH CHASE  
 CARLSBAD, NEW MEXICO

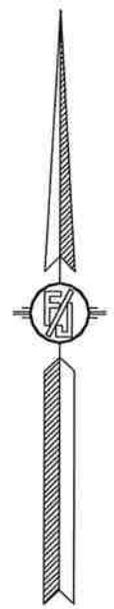
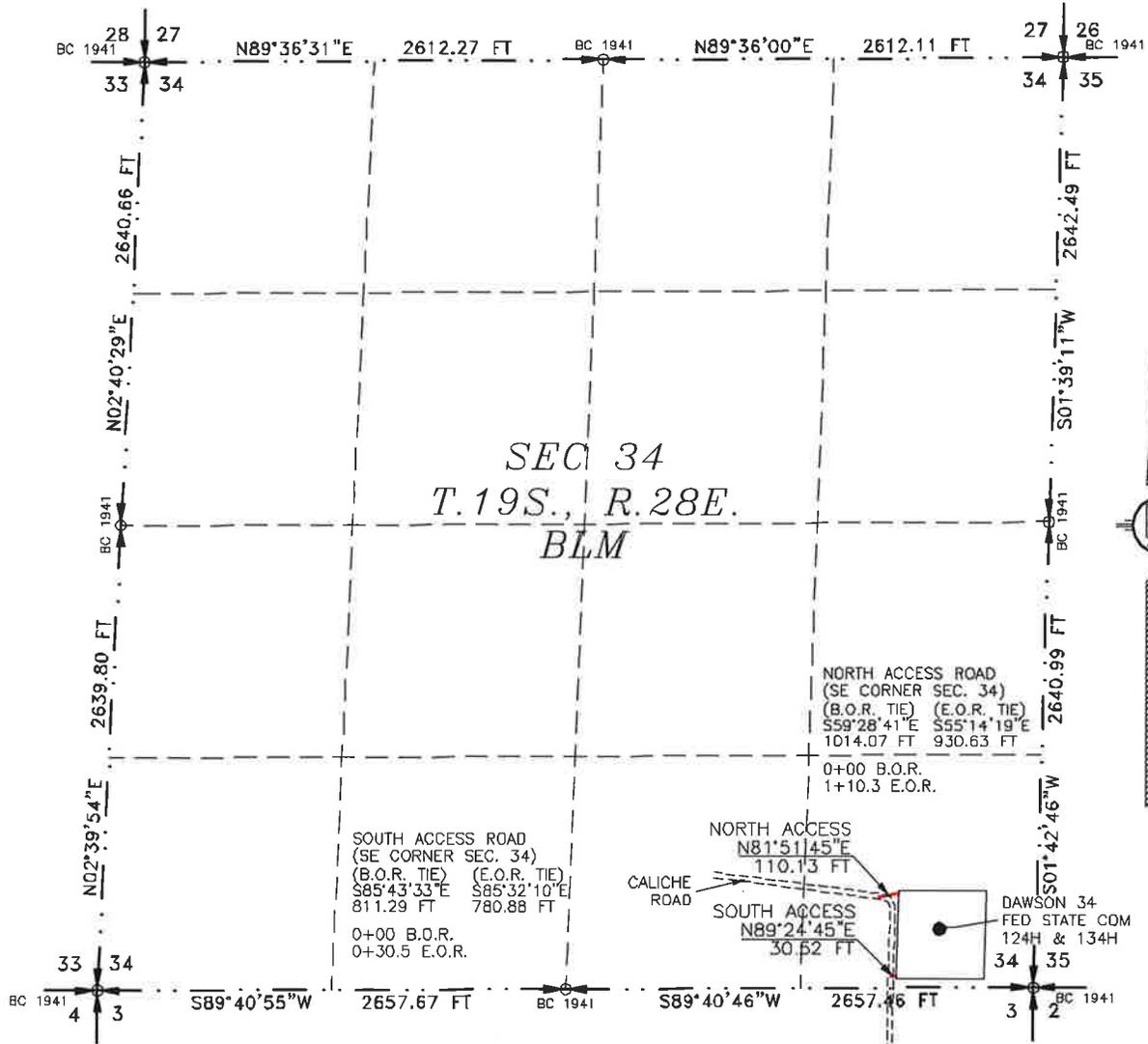
SHEET 2-2  
 SURVEY NO. 7982

**ACCESS ROAD PLAT**

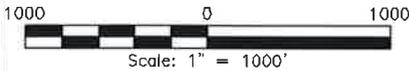
ACCESS ROAD FOR DAWSON 34 FED STATE COM 124H & 134H

**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.

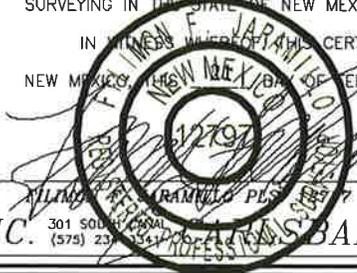
SHEET: 1-2

**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 231-1111

**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<sup>TH</sup> 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

**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

**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<sup>TH</sup> DAY OF FEBRUARY 2020



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

SURVEY NO. 7982

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

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

<sup>10</sup> Surface Location

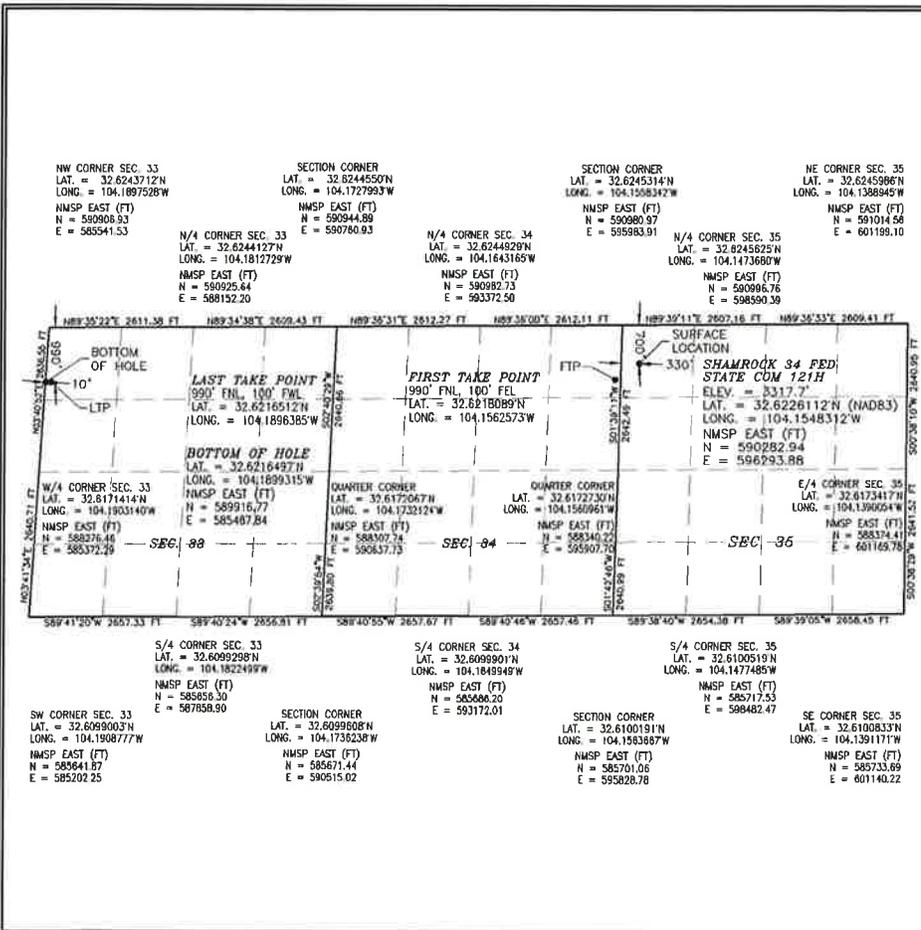
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>D</b>	<b>35</b>	<b>19 S</b>	<b>28 E</b>		<b>700</b>	<b>NORTH</b>	<b>330</b>	<b>WEST</b>	<b>EDDY</b>

<sup>11</sup> 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
<b>D</b>	<b>33</b>	<b>19 S</b>	<b>28 E</b>		<b>990</b>	<b>NORTH</b>	<b>10</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



**<sup>17</sup> 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 \_\_\_\_\_

**<sup>18</sup> 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



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

Last Take Point (LTP)

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

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

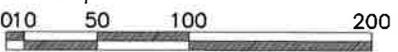
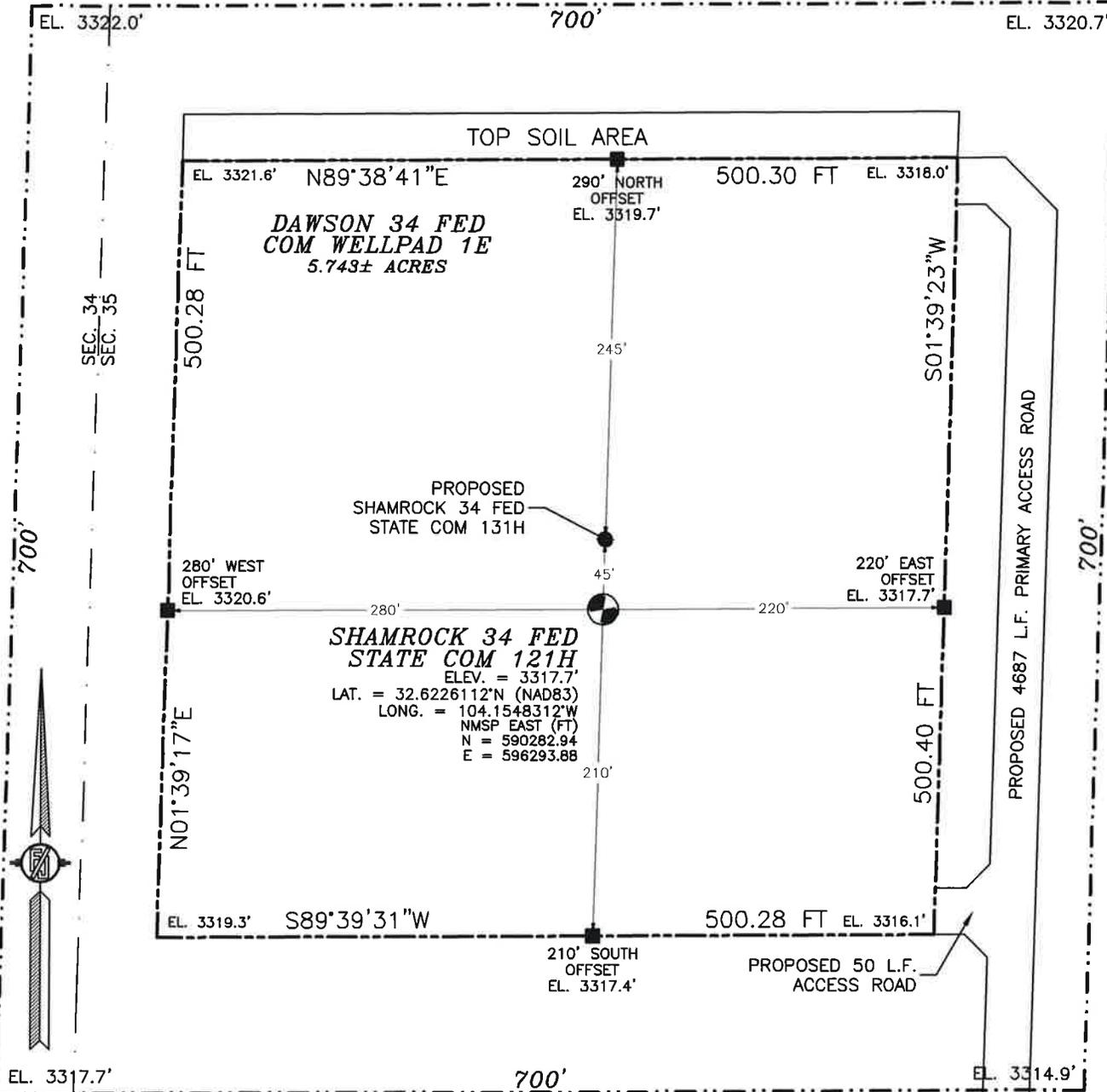
Is this well an infill well?

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. 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 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 0.3 MILES, TURN LEFT AND GO NORTH 0.4 MILES TO A ROAD SURVEY AND FOLLOW EAST (CR. 208) 605', THEN NORTHWEST 339', THEN NORTH 133', THEN WEST TO THE SURVEY PAD CORNER FOR THIS LOCATION.

I, FILIMON E. MARZULLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERT. NO. 2710, HAVE MADE A RECONSTRUCTION OF THIS SURVEY, THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF MEETS THE MINIMUM STANDARDS FOR THIS SURVEY.

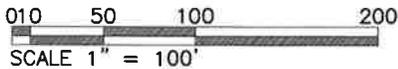
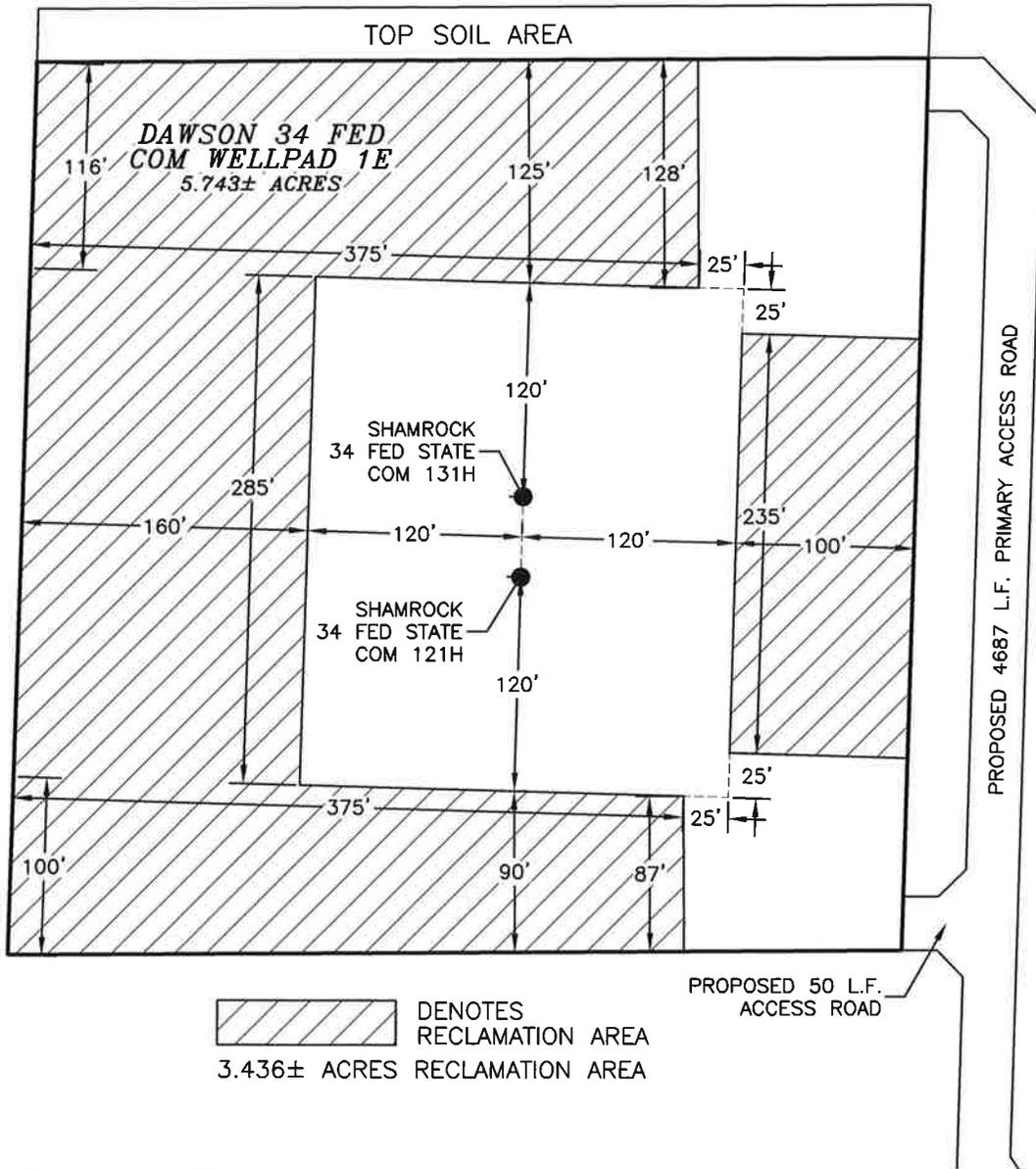
FILIMON E. MARZULLO  
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341

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

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



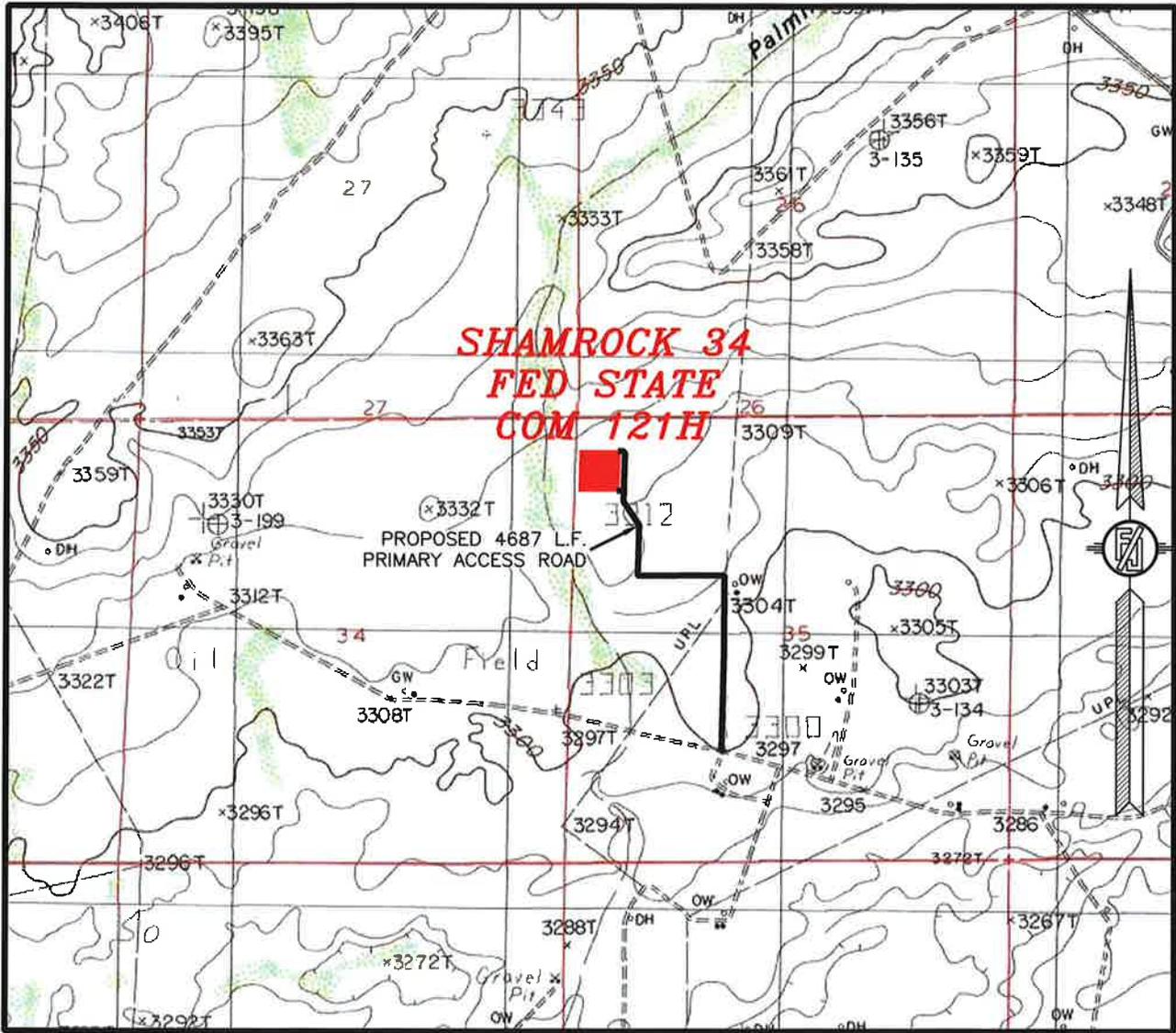
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 121H**  
 LOCATED 700 FT. FROM THE NORTH LINE  
 AND 330 FT. FROM THE WEST LINE OF  
 SECTION 35, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7987

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

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

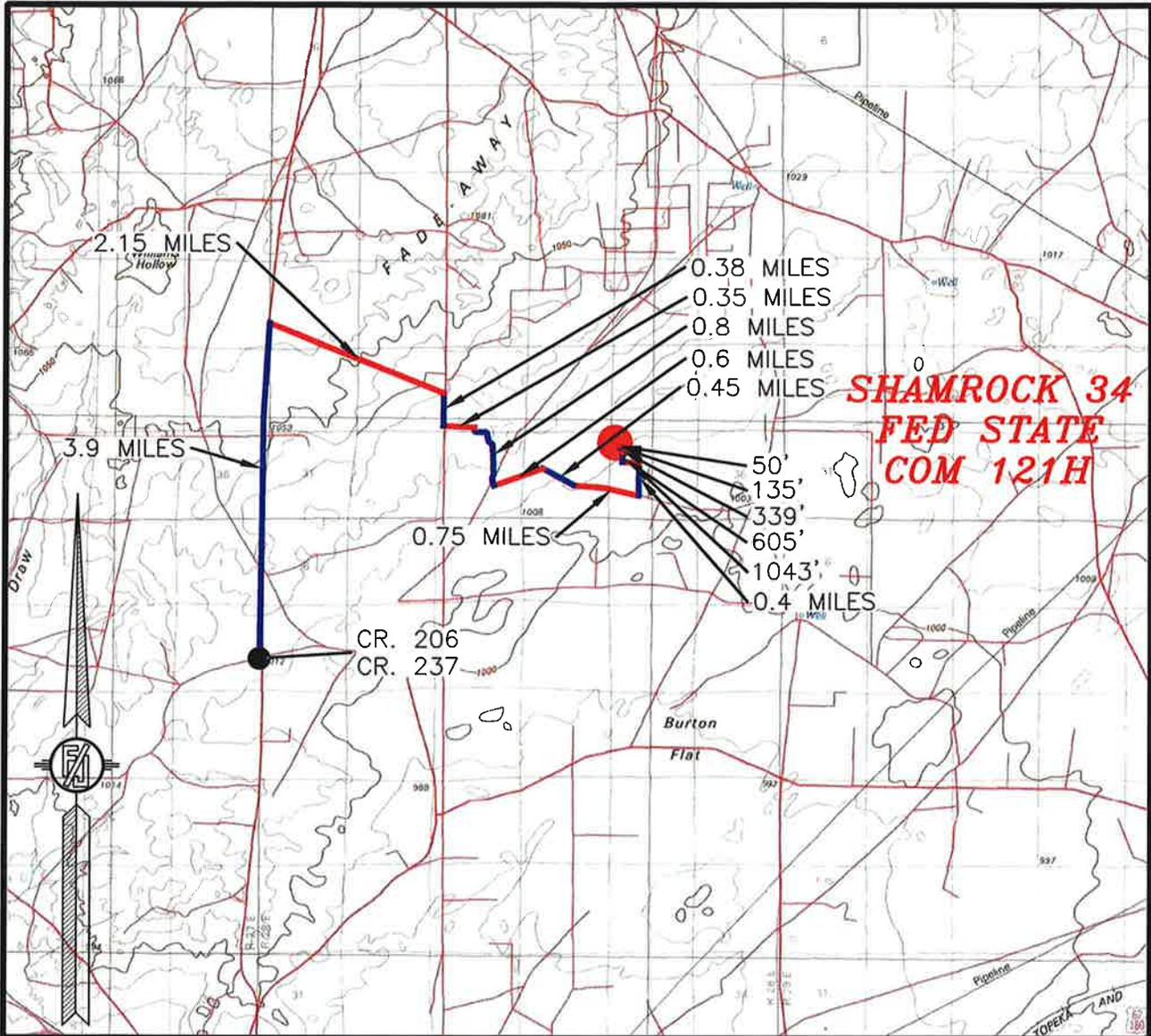
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 121H**  
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AND 330 FT. FROM THE WEST LINE OF  
SECTION 35, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7987

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

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.

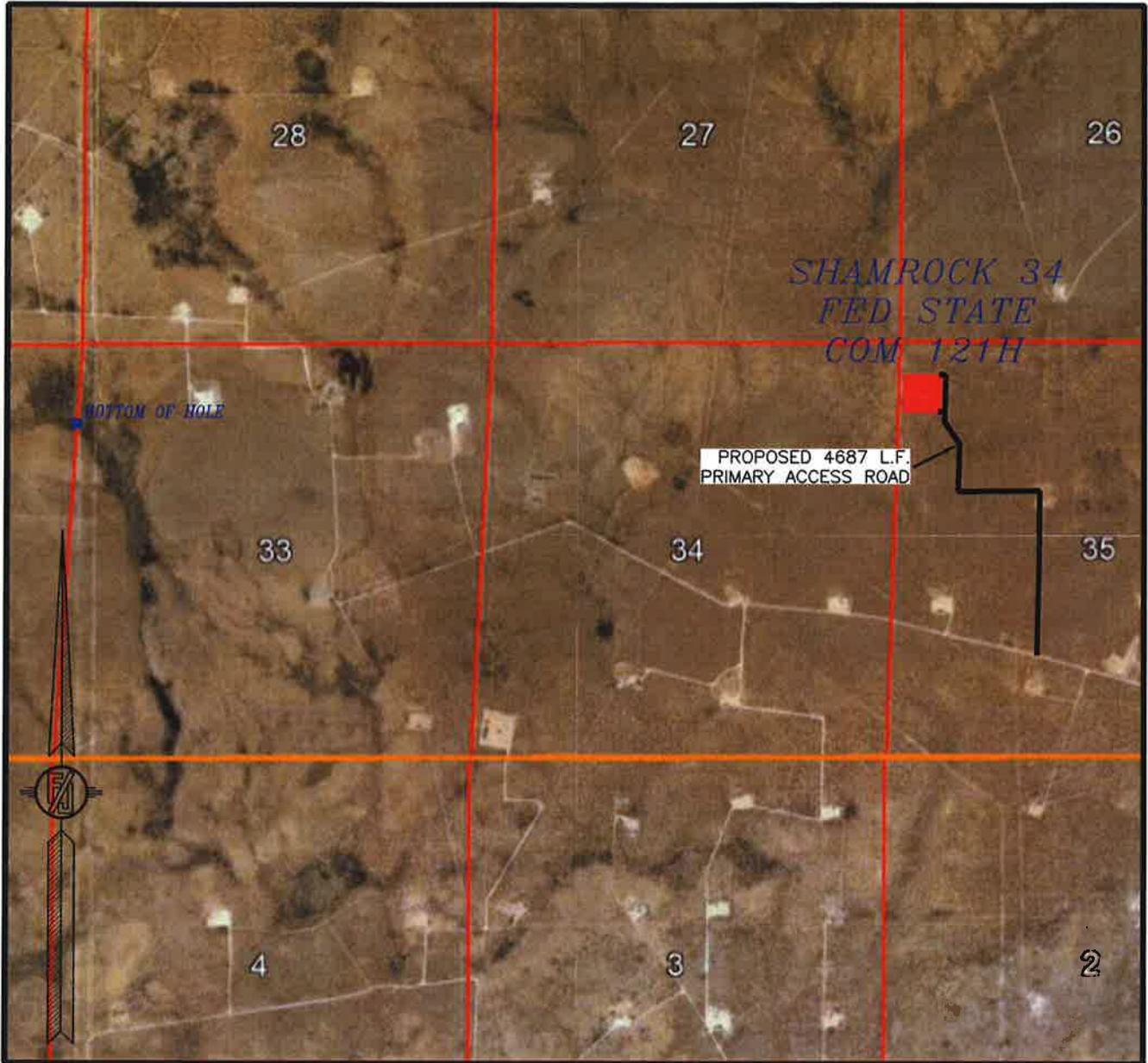
**COLGATE OPERATING, LLC**  
**SHAMROCK 34 FED STATE COM 121H**  
 LOCATED 700 FT. FROM THE NORTH LINE  
 AND 330 FT. FROM THE WEST LINE OF  
 SECTION 35, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7987

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

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

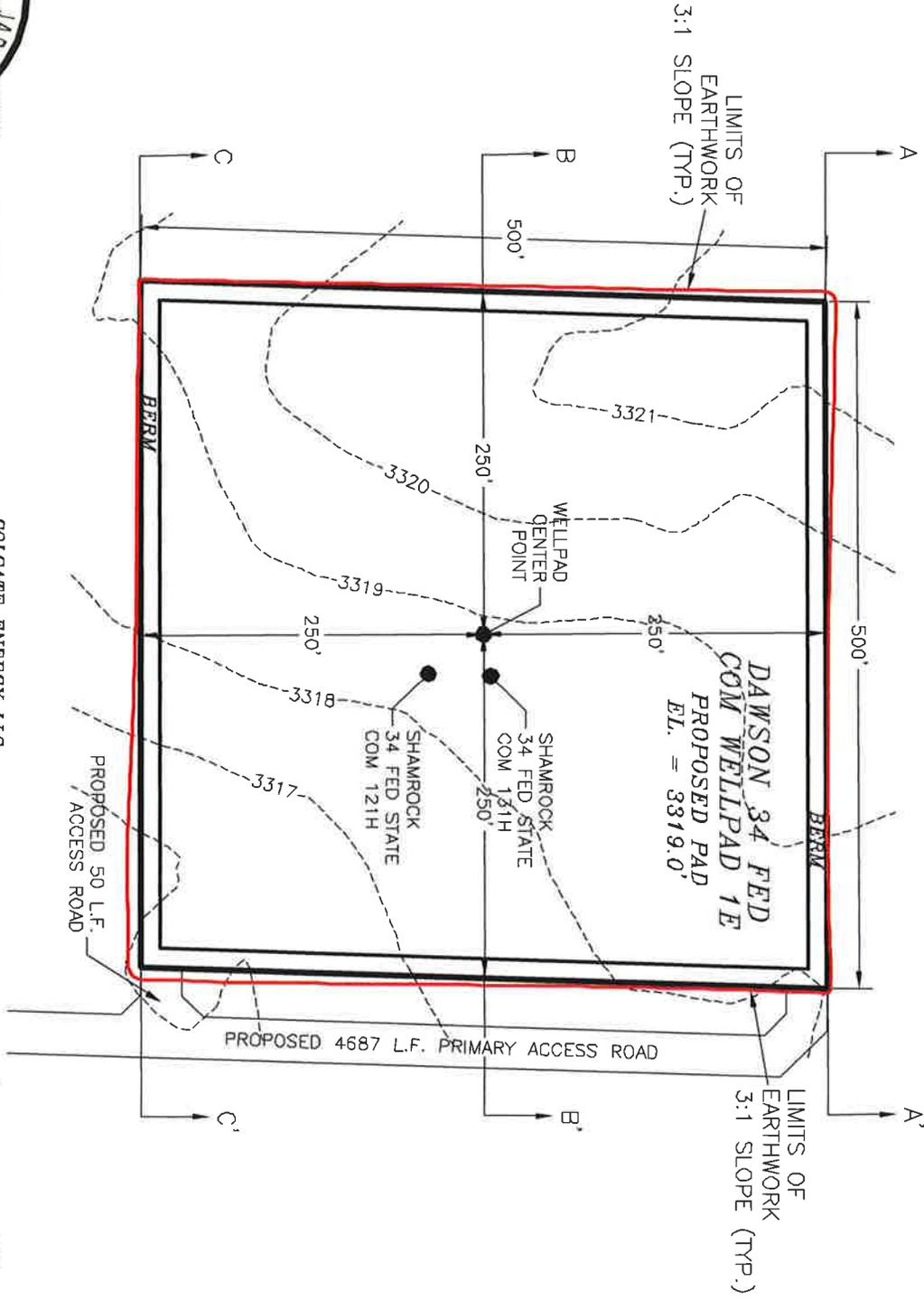
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 121H**  
LOCATED 700 FT. FROM THE NORTH LINE  
AND 330 FT. FROM THE WEST LINE OF  
SECTION 35, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7987

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

PLAN VIEW



I, FILIPINO V. MARIN, JR., MEXICO REGISTERED PROFESSIONAL SURVEYOR, HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS 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 121H**  
 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 CARLSBAD, NEW MEXICO

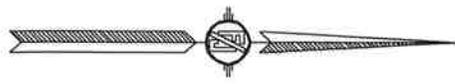
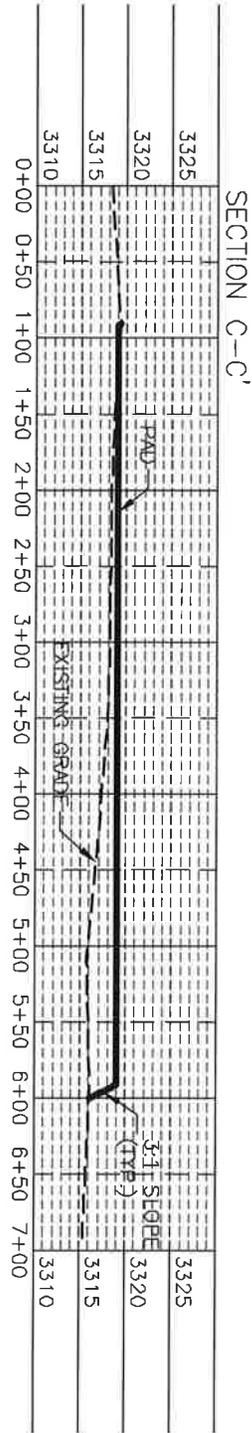
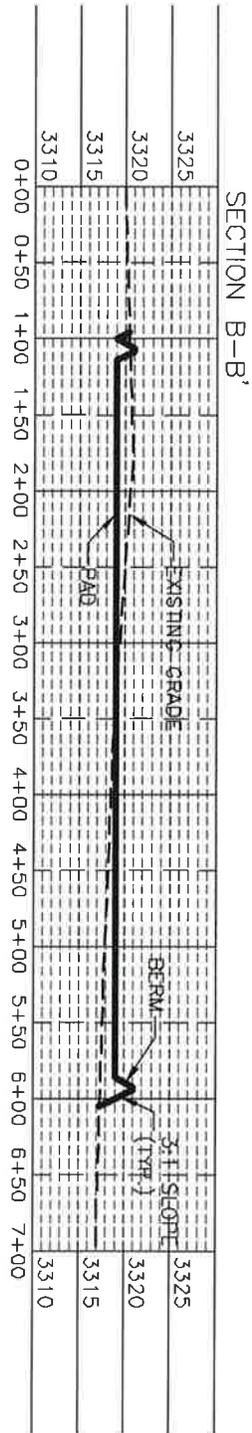
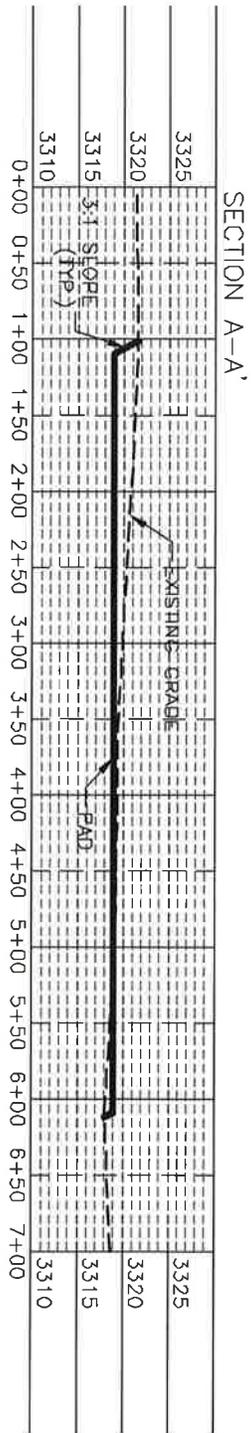
SHEET 1-2 SURVEY NO. 7987

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

EARTHWORK QUANTITIES ARE ESTIMATED



# CROSS-SECTIONS



I, FILIPINO MARCELO M. MEXICO REGISTERED PROFESSIONAL SURVEYOR, HEREBY CERTIFY AND AM RESPONSIBLE FOR THE TRUTH AND ACCURACY OF THIS SURVEY. I HAVE BELIEVED THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS SURVEY AND PLAN 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

**MADRON SURVEYING, INC.** FEBRUARY 14, 2020  
 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (505) 234-3341

012		60		120		240	
SCALE 1" = 120' - 1" = 20' VER							
CUT	FILL	NET					
4001 CU. YD	6474 CU. YD	2473 CU. YD (FILL)					
EARTHWORK QUANTITIES ARE ESTIMATED							

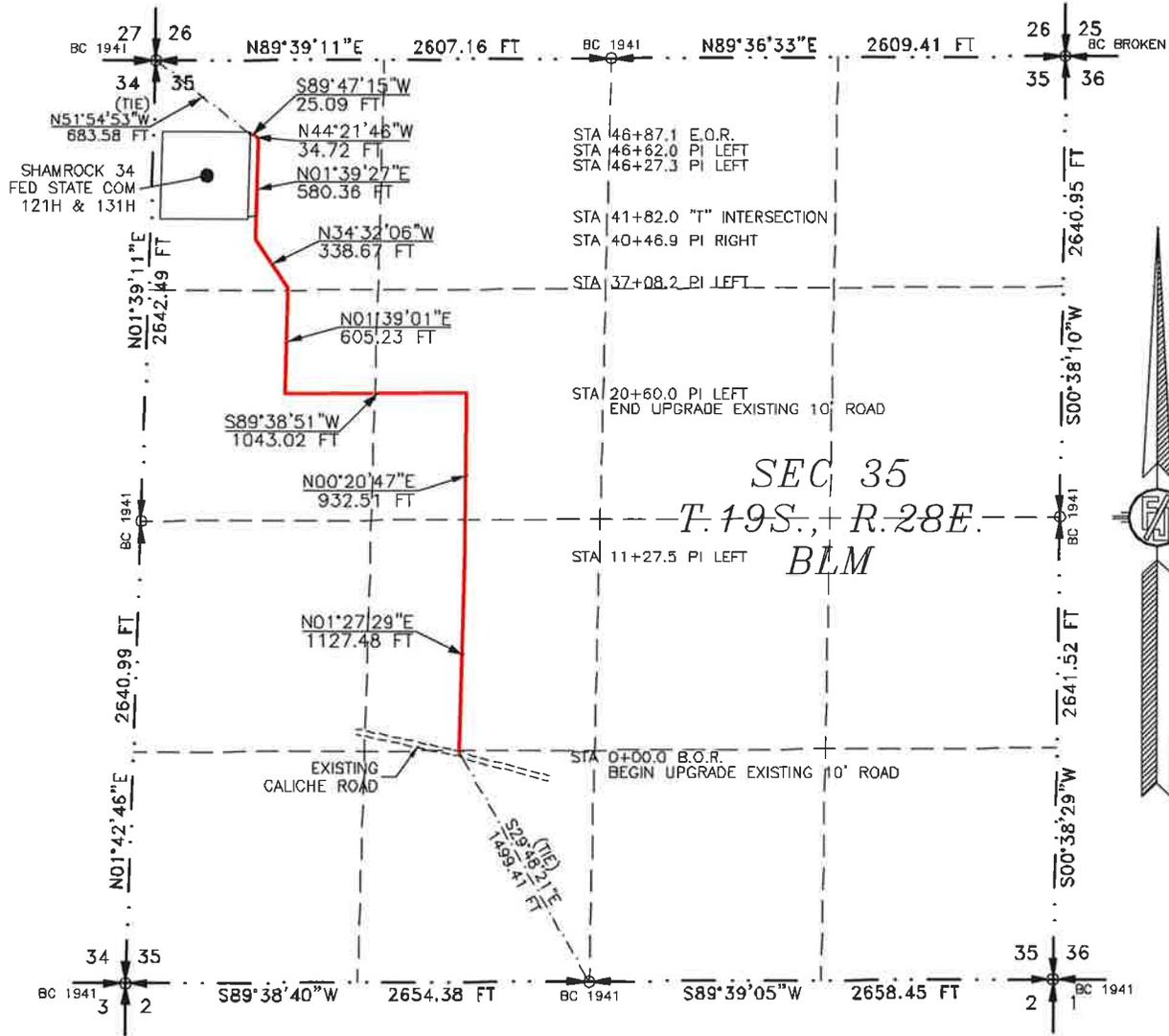
SHEET 2-2  
 SURVEY NO. 7987

### ACCESS ROAD PLAT

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

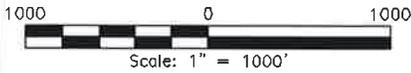
### COLGATE ENERGY LLC

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



SEC 35  
T. 19 S., R. 28 E.  
BLM

SEE NEXT SHEET (2-4) 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 14th DAY OF FEBRUARY 2020

FILIMON F. JARAMILLO  
 12797  
 NEW MEXICO  
 PROFESSIONAL SURVEYOR

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: 1-4

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

**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;

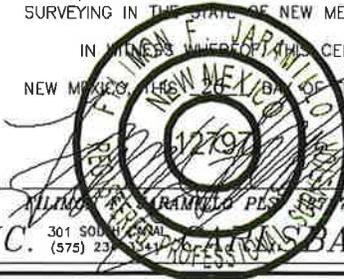
SAID STRIP OF LAND BEING 4687.08 FEET OR 284.07 RODS IN LENGTH, CONTAINING 3.228 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

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<sup>TH</sup> DAY OF FEBRUARY 2020



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

SURVEY NO. 7987

**GENERAL NOTES**

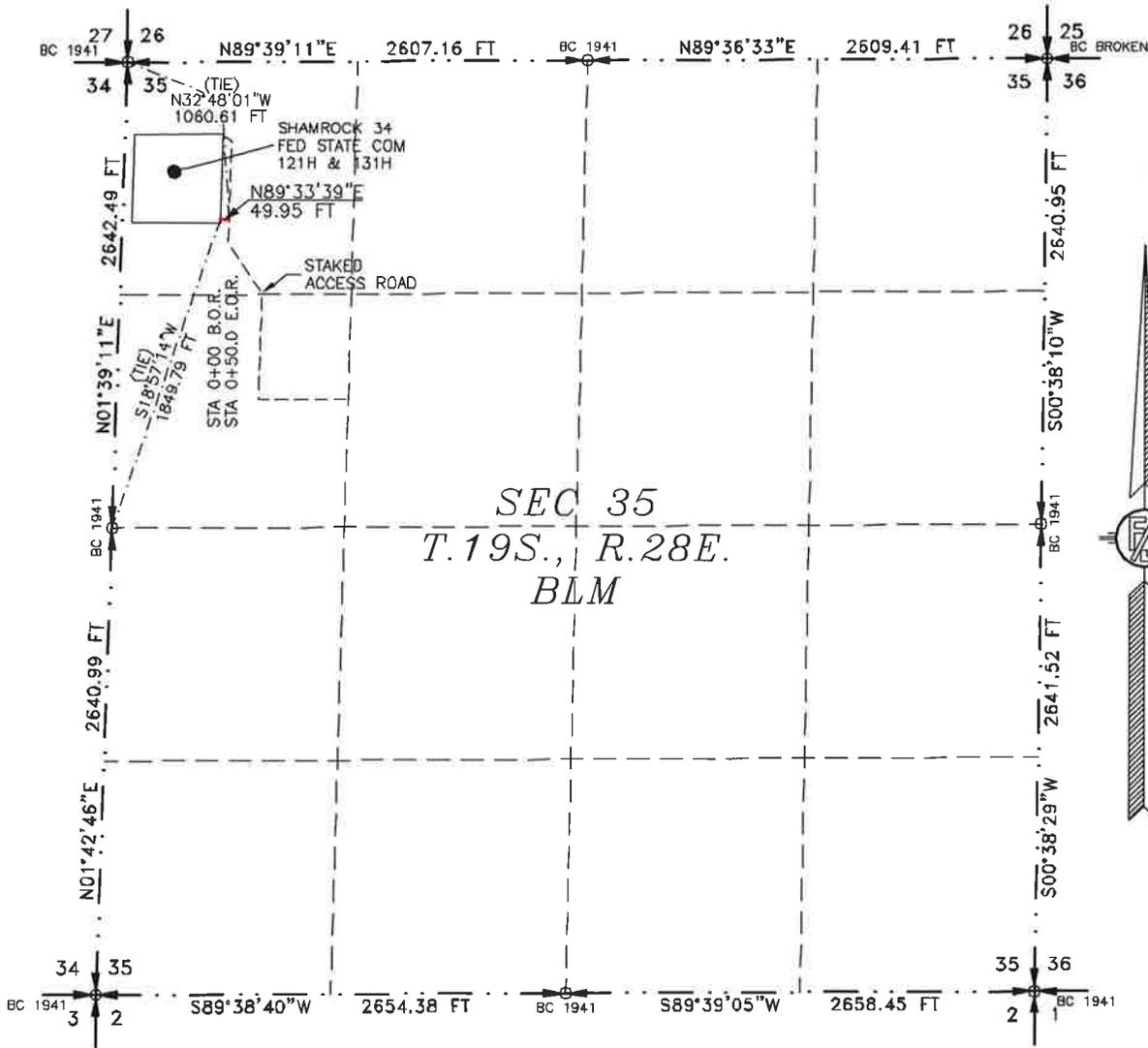
- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-4

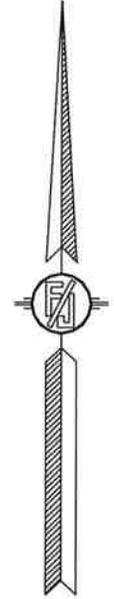
**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

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

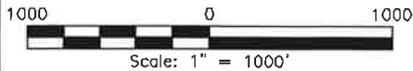
**COLGATE ENERGY LLC**  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
FEBRUARY 14, 2020



SEC 35  
T.19S., R.28E.  
BLM



SEE NEXT SHEET (4-4) FOR DESCRIPTION

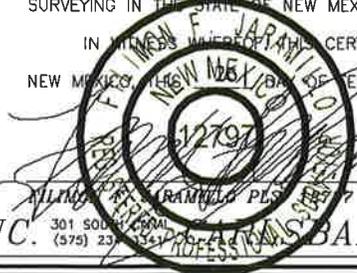


**SURVEYOR CERTIFICATE**

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 14<sup>TH</sup> 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 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

**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;

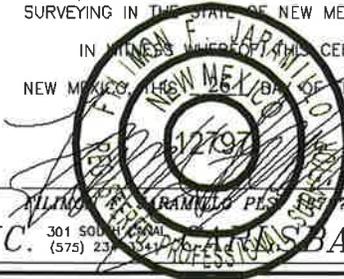
SAID STRIP OF LAND BEING 49.95 FEET OR 3.03 RODS IN LENGTH, CONTAINING 0.034 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

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 26<sup>TH</sup> 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 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

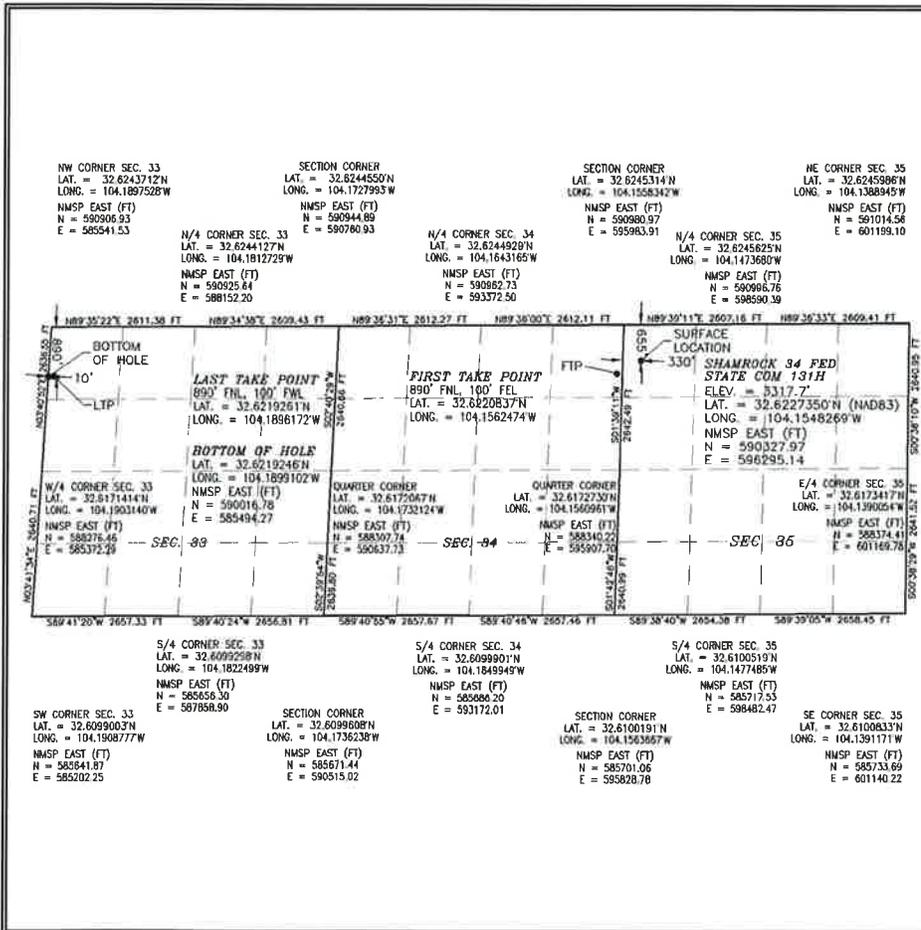
<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>SHAMROCK 34 FED STATE COM</b>	
<sup>7</sup> OGRID No. <b>371449</b>	<sup>8</sup> Operator Name <b>COLGATE OPERATING, LLC</b>	
	<sup>6</sup> Well Number <b>131H</b>	<sup>9</sup>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

<sup>10</sup> Surface Location									
UL or lot no. <b>D</b>	Section <b>35</b>	Township <b>19 S</b>	Range <b>28 E</b>	Lot Idn	Feet from the <b>655</b>	North/South line <b>NORTH</b>	Feet from the <b>330</b>	East/West line <b>WEST</b>	County <b>EDDY</b>

<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. <b>D</b>	Section <b>33</b>	Township <b>19 S</b>	Range <b>28 E</b>	Lot Idn	Feet from the <b>890</b>	North/South line <b>NORTH</b>	Feet from the <b>10</b>	East/West line <b>WEST</b>	County <b>EDDY</b>

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>16</sup> 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.



**<sup>17</sup> 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 \_\_\_\_\_

**<sup>18</sup> 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



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

Last Take Point (LTP)

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

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

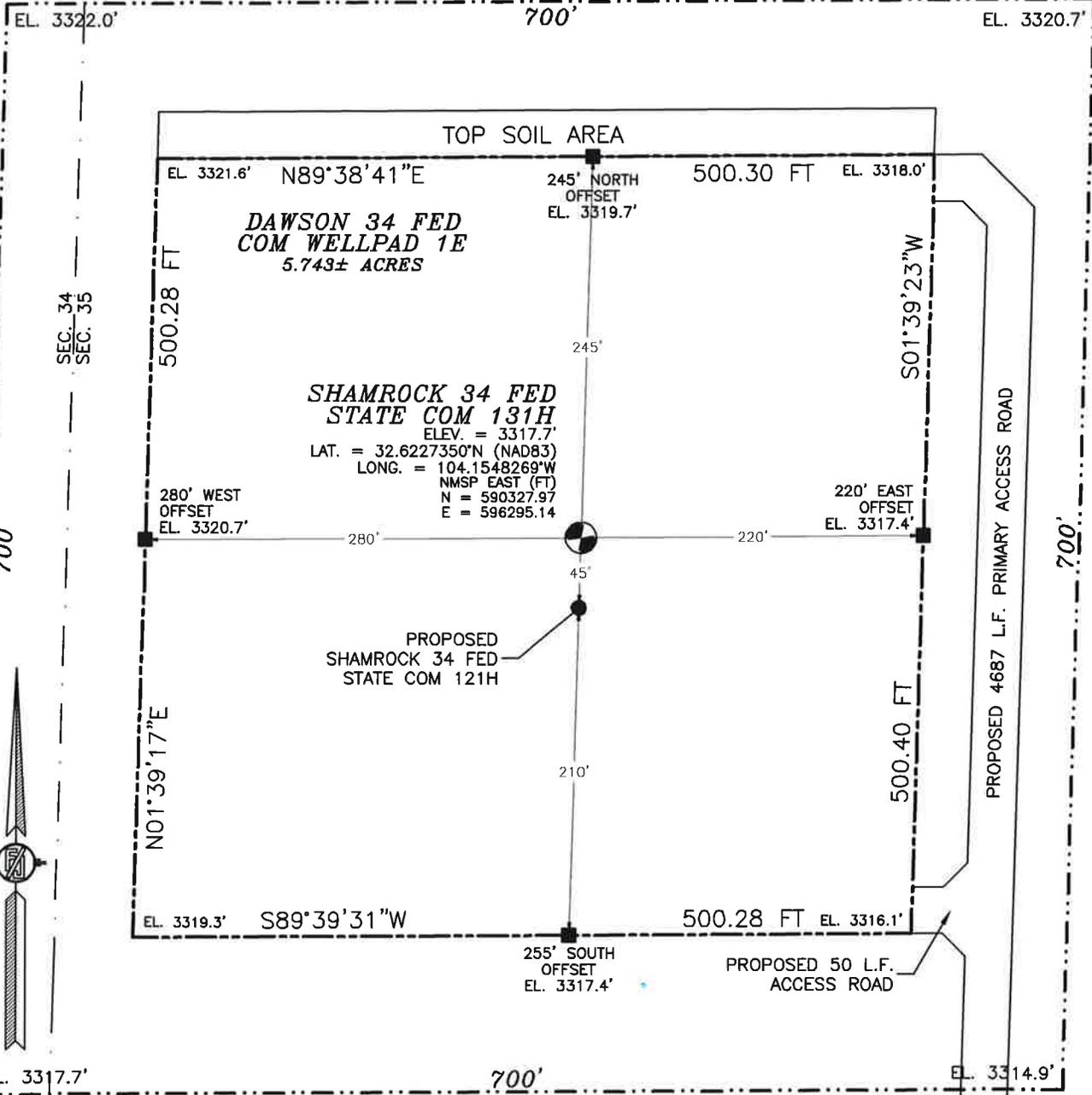
Is this well an infill well?

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 0.5 MILES, TURN LEFT AND GO NORTH 0.4 MILES TO A ROAD SURVEY AND FOLLOW EAST-NORTHWEST 100', THEN NORTH 605', THEN NORTHWEST 338', THEN NORTH 130', THEN WEST TO THE SURVEY PAD CORNER FOR THIS LOCATION.

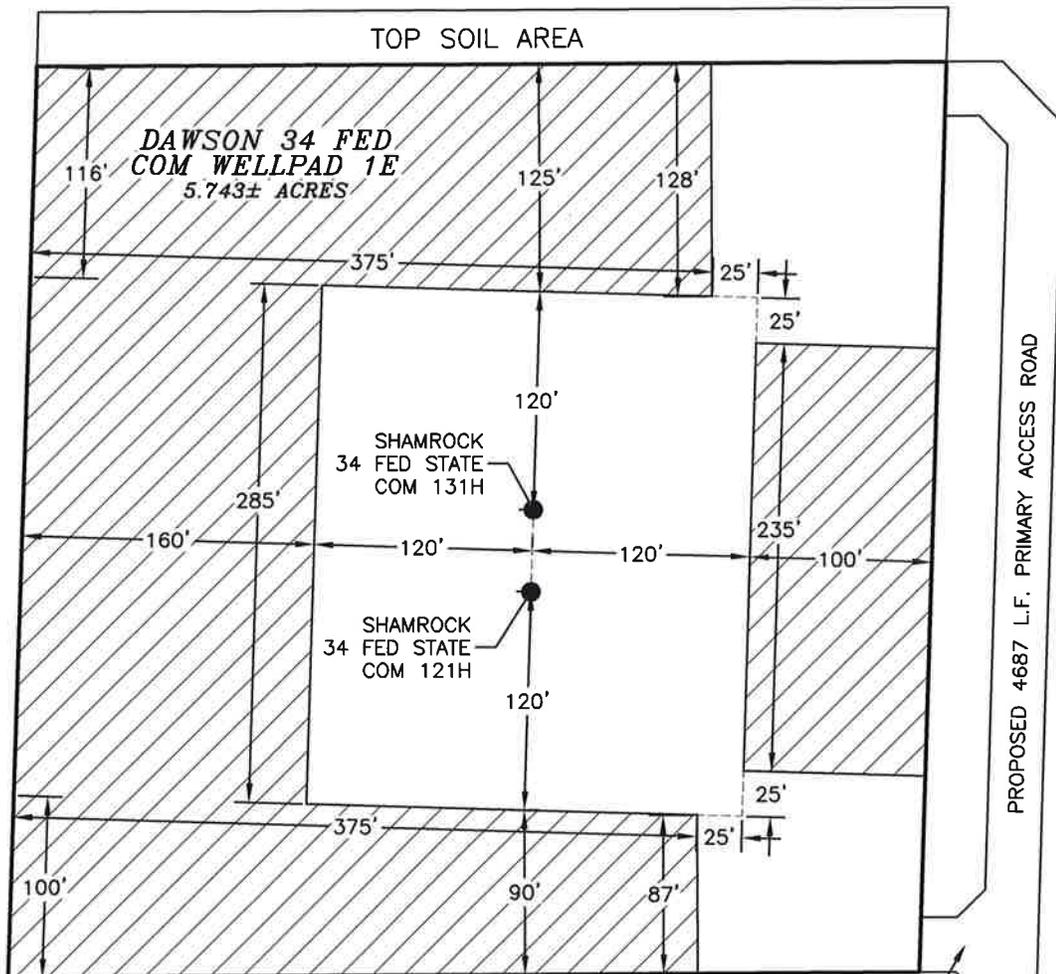
I, FILIPON F. MARILLON, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, HEREBY CERTIFY THAT THE DIRECTIONS TO LOCATION ON THIS SURVEY, THAT THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE STANDARDS FOR PROFESSIONAL SURVEYING, AND THAT I AM A MEMBER OF THE NATIONAL BOARD OF SURVEYING AND MAPPING.

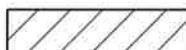
**MADRON PROFESSIONAL SURVEYING, INC.**  
301 SOUTH CANAL  
(575) 234-3341

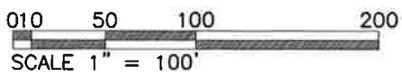
**COLGATE OPERATING, LLC**  
**SHAMROCK 34 FED STATE COM 131H**  
LOCATED 655 FT. FROM THE NORTH LINE  
AND 330 FT. FROM THE WEST LINE OF  
SECTION 35, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020  
SURVEY NO. 7988

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



 DENOTES RECLAMATION AREA  
3.436± ACRES RECLAMATION AREA



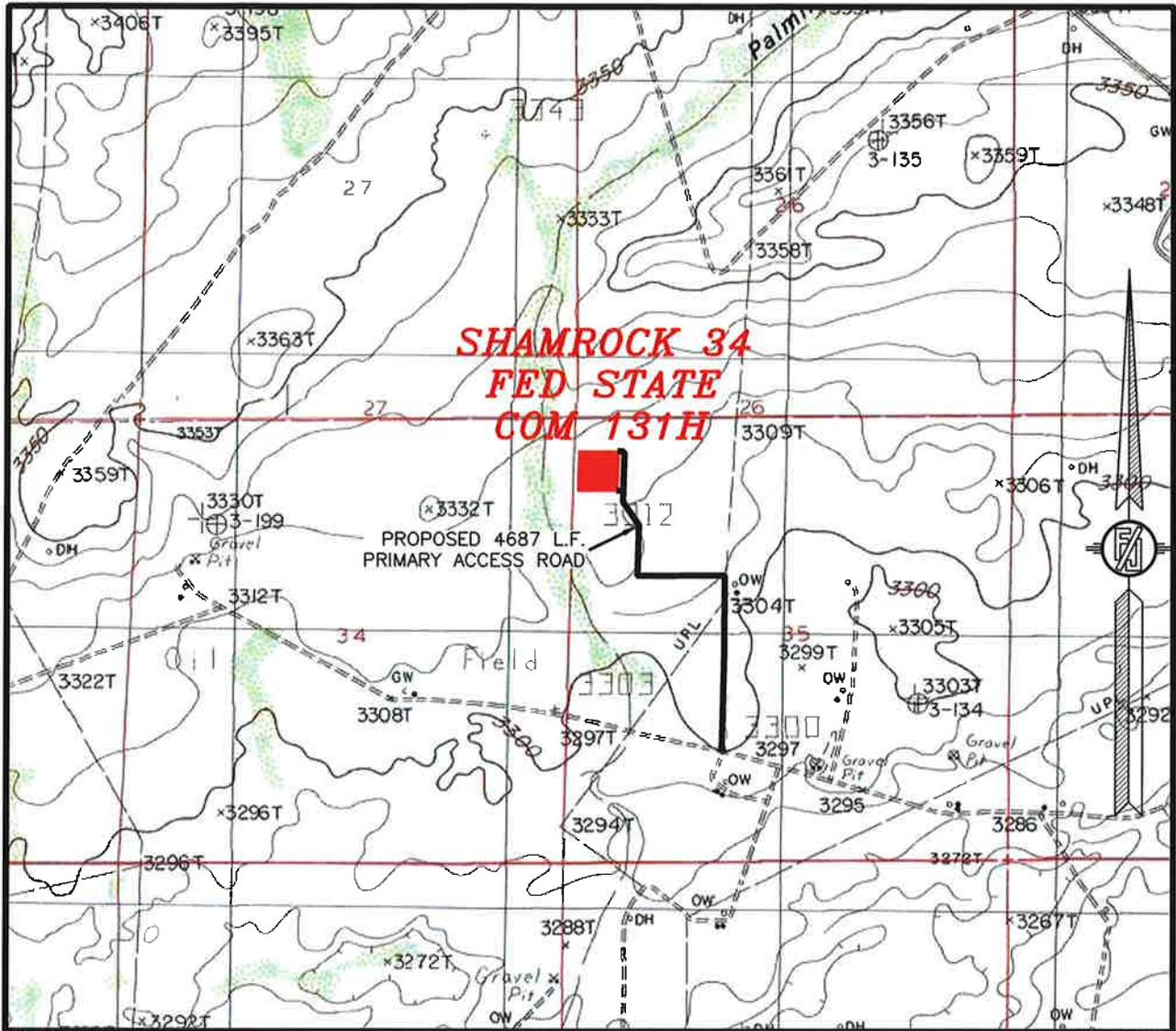
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 131H**  
 LOCATED 655 FT. FROM THE NORTH LINE  
 AND 330 FT. FROM THE WEST LINE OF  
 SECTION 35, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

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

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

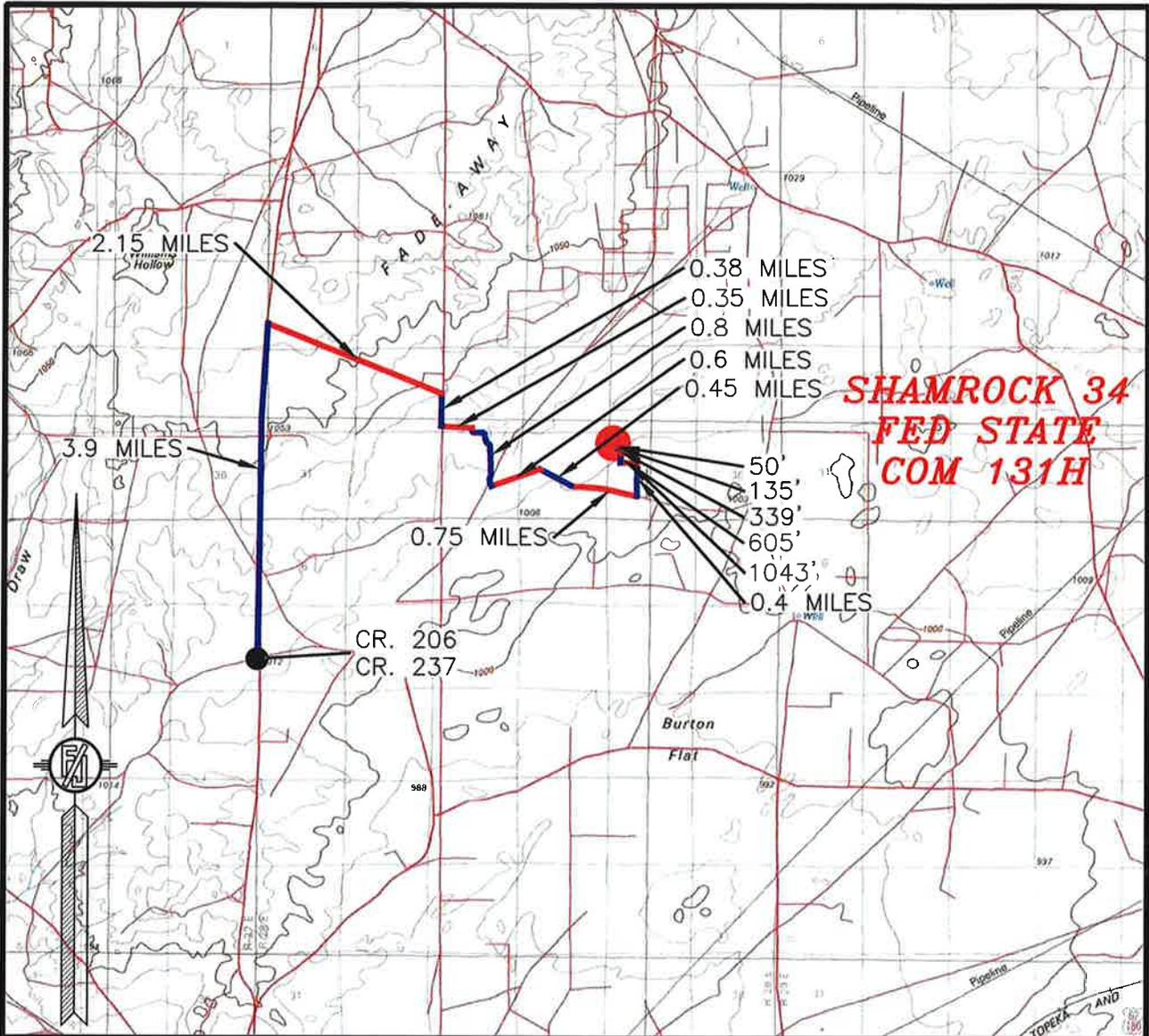
**COLGATE OPERATING, LLC**  
**SHAMROCK 34 FED STATE COM 131H**  
LOCATED 655 FT. FROM THE NORTH LINE  
AND 330 FT. FROM THE WEST LINE OF  
SECTION 35, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 14, 2020

SURVEY NO. 7988

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

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.

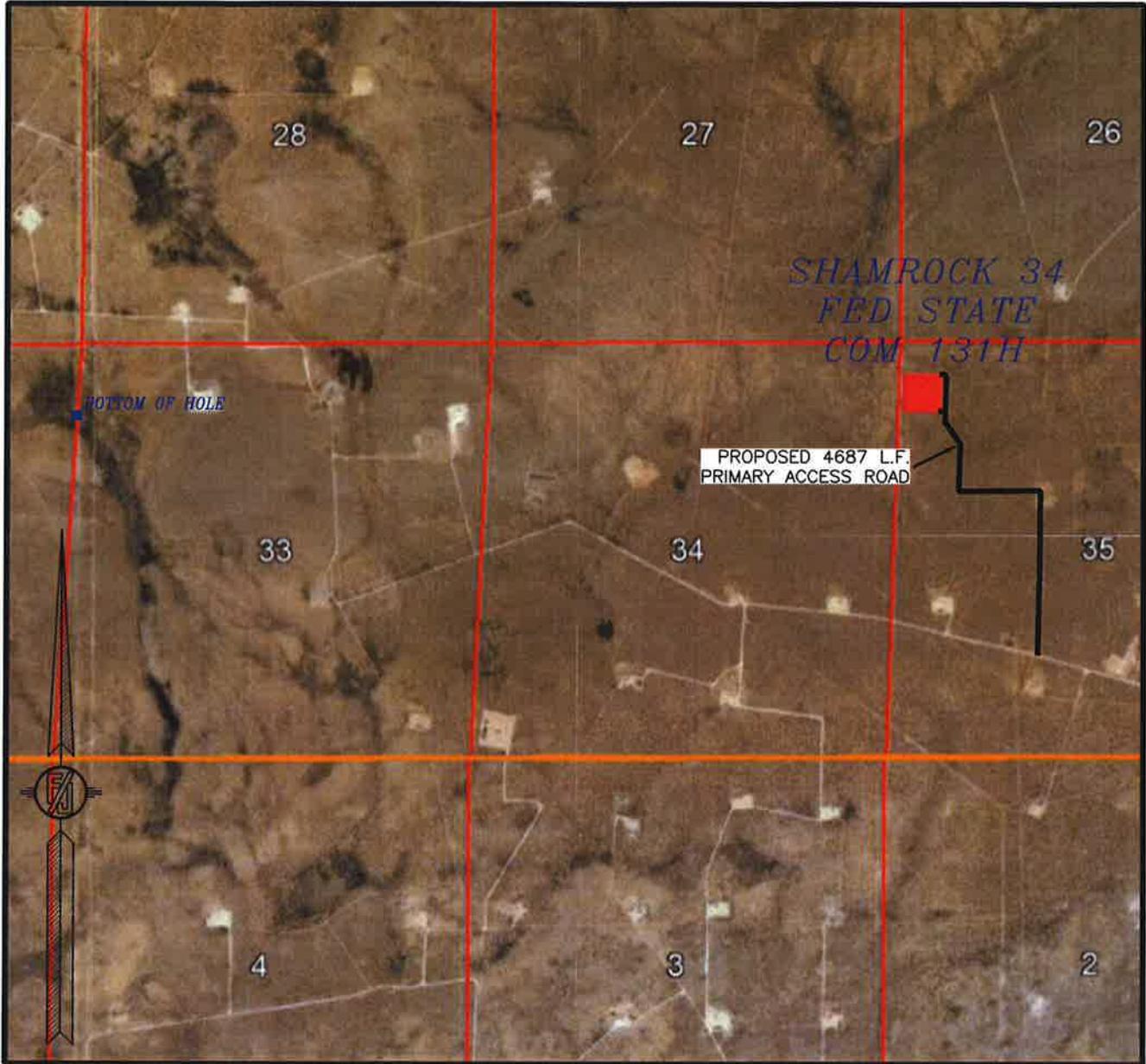
**COLGATE OPERATING, LLC**  
**SHAMROCK 34 FED STATE COM 131H**  
 LOCATED 655 FT. FROM THE NORTH LINE  
 AND 330 FT. FROM THE WEST LINE OF  
 SECTION 35, TOWNSHIP 19 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

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

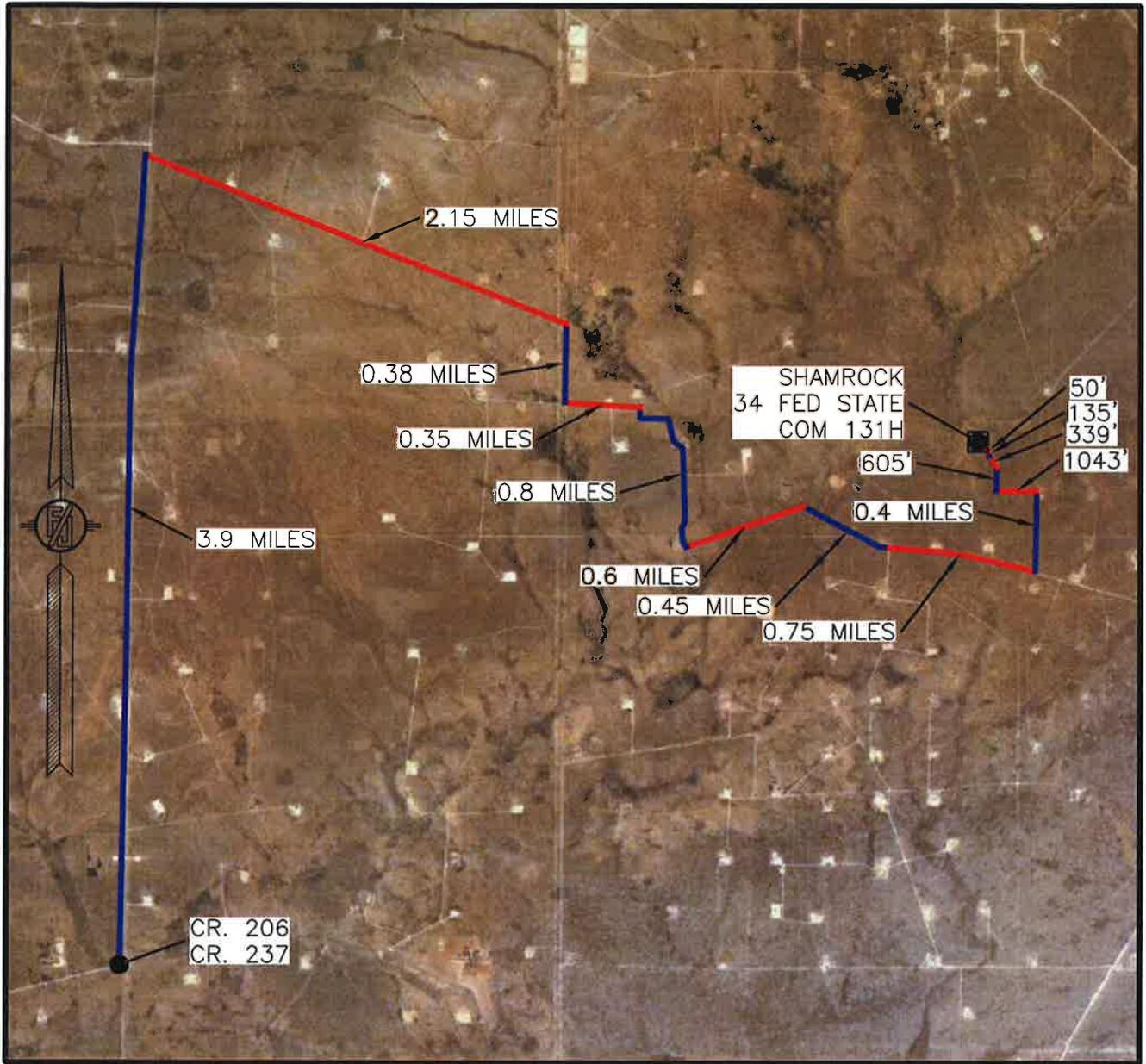
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 131H**  
LOCATED 655 FT. FROM THE NORTH LINE  
AND 330 FT. FROM THE WEST LINE OF  
SECTION 35, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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



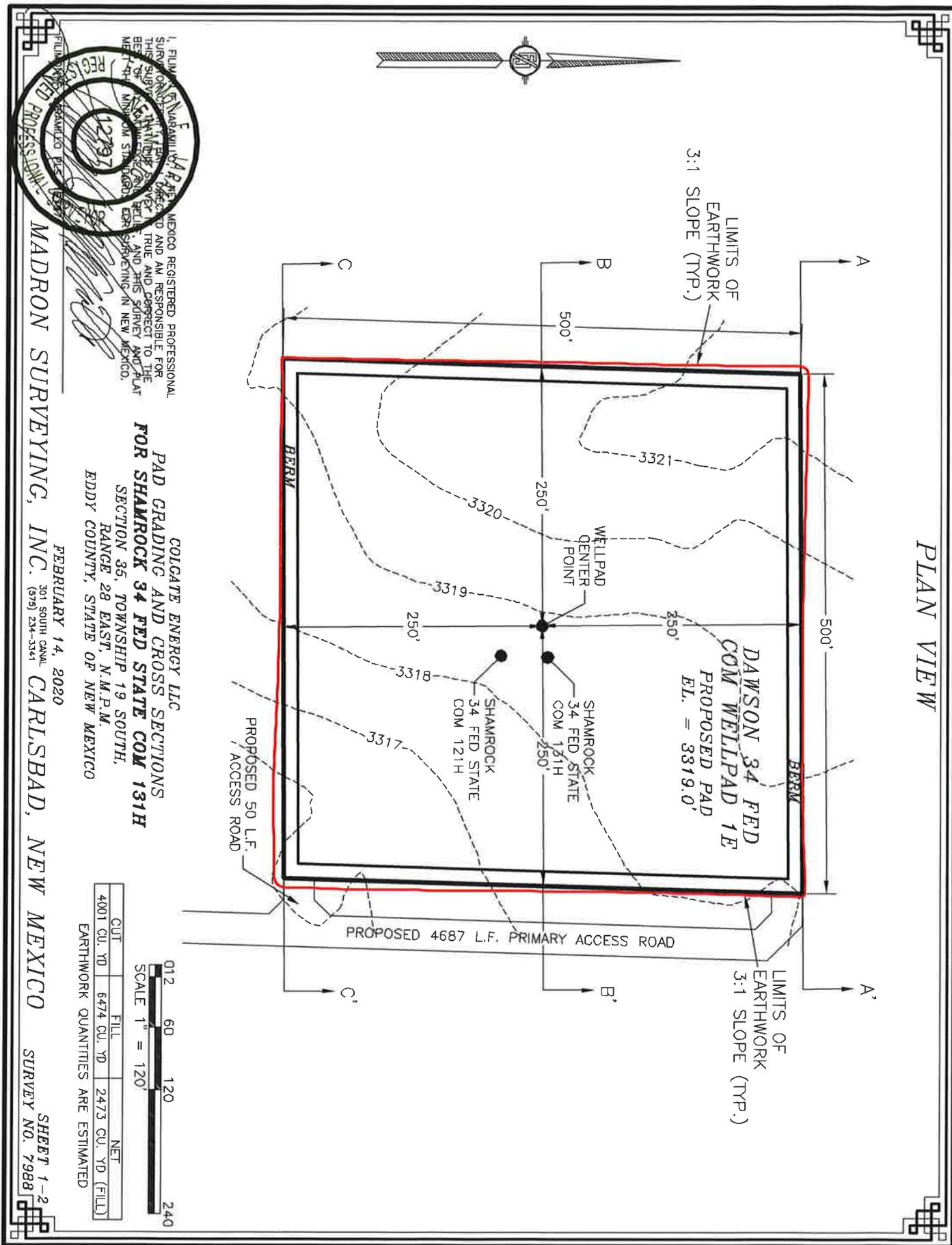
NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

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, FILIPINO M. VILLARREAL, L.P.E., NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, HAVE PREPARED AND AM RESPONSIBLE FOR THE SURVEY AND PLAN THEREON. I HAVE BEEN CAREFULLY CHECKED AND AM CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

12297

FOR SHAMROCK 34 FED STATE COM 131H  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

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

301 SOUTH CANAL  
 (975) 234-3344

CARLSBAD, NEW MEXICO

SHEET 1-2  
 SURVEY NO. 7988

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

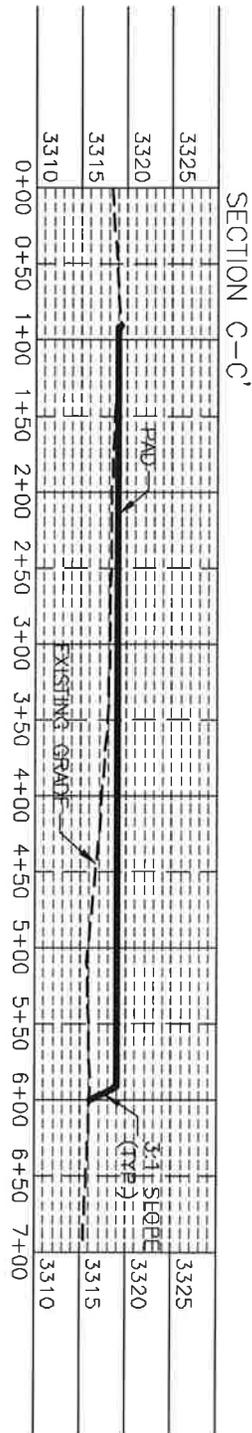
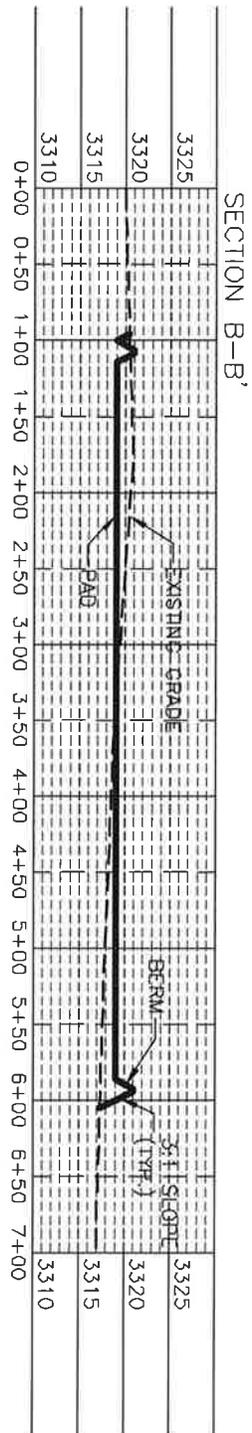
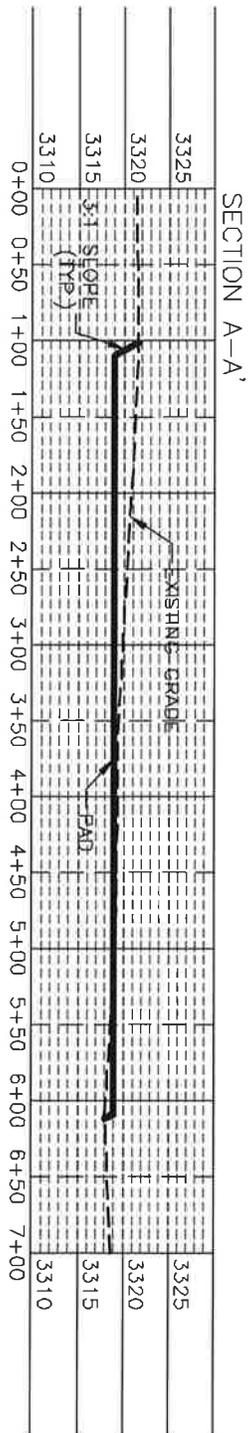
EARTHWORK QUANTITIES ARE ESTIMATED

SCALE 1" = 120'

0 12 60 120 240

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

# CROSS-SECTIONS



I, FULMONT M. VARGAS, M.A.S., REGISTERED PROFESSIONAL SURVEYOR IN THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS SURVEY WAS MADE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF SURVEYING AND MAPPING, AND THAT THE SURVEY WAS MADE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM AWARE OF THE CONTENTS OF THIS REPORT AND THE ACCURACY OF THE DATA HEREIN.

**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



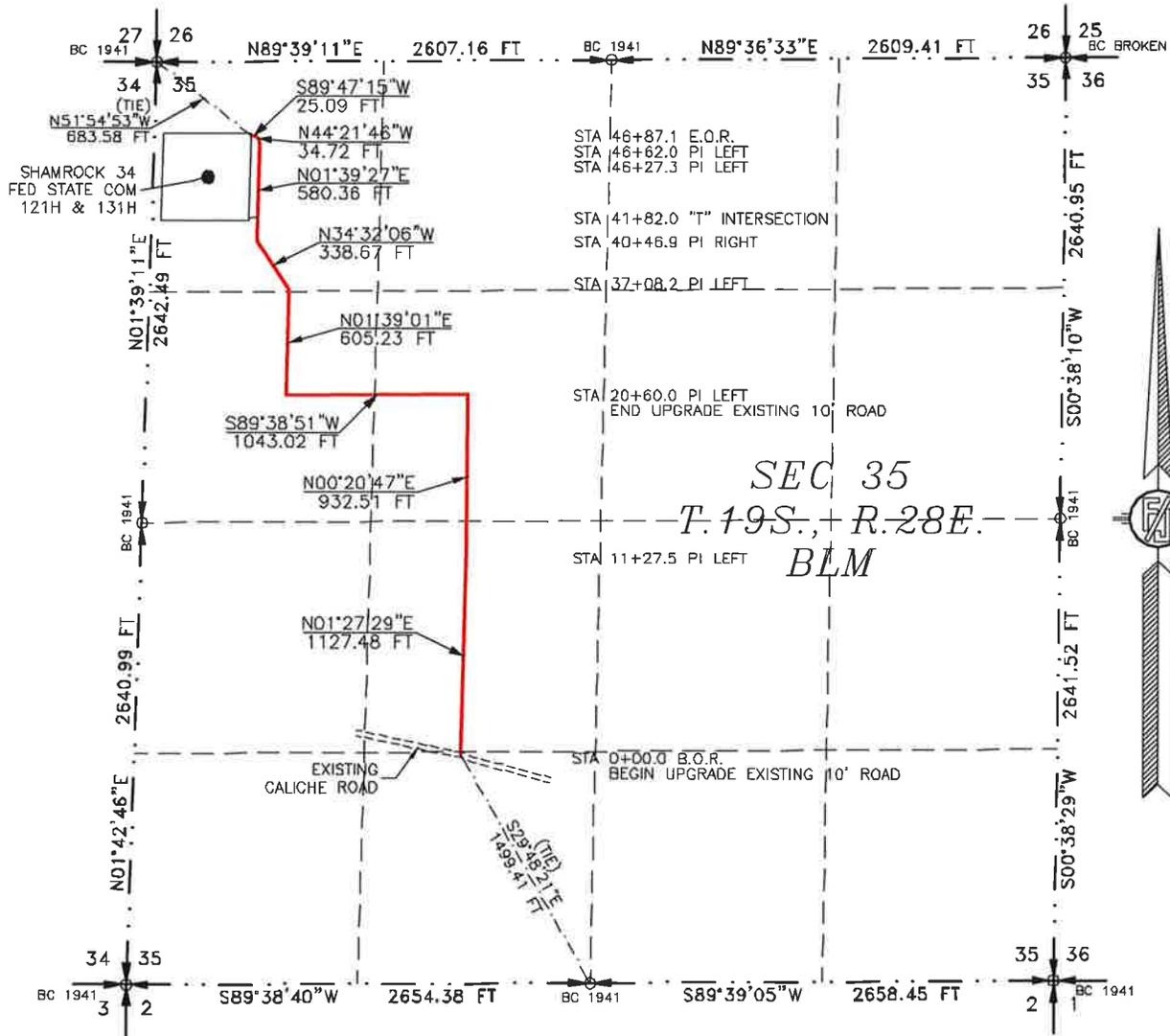
**MADRON SURVEYING, INC.** 301 SOUTH GAVEL (979) 234-3344  
 FEBRUARY 14, 2020  
**CARLSBAD, NEW MEXICO**  
 SHEET 2-2 SURVEY NO. 7988

### ACCESS ROAD PLAT

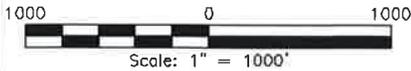
PRIMARY ACCESS ROAD FOR SHAMROCK 34 FED STATE COM 121H & 131H

### 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, 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<sup>TH</sup> 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 14 DAY OF FEBRUARY 2020



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

**SURVEY NO. 7988**

**GENERAL NOTES**

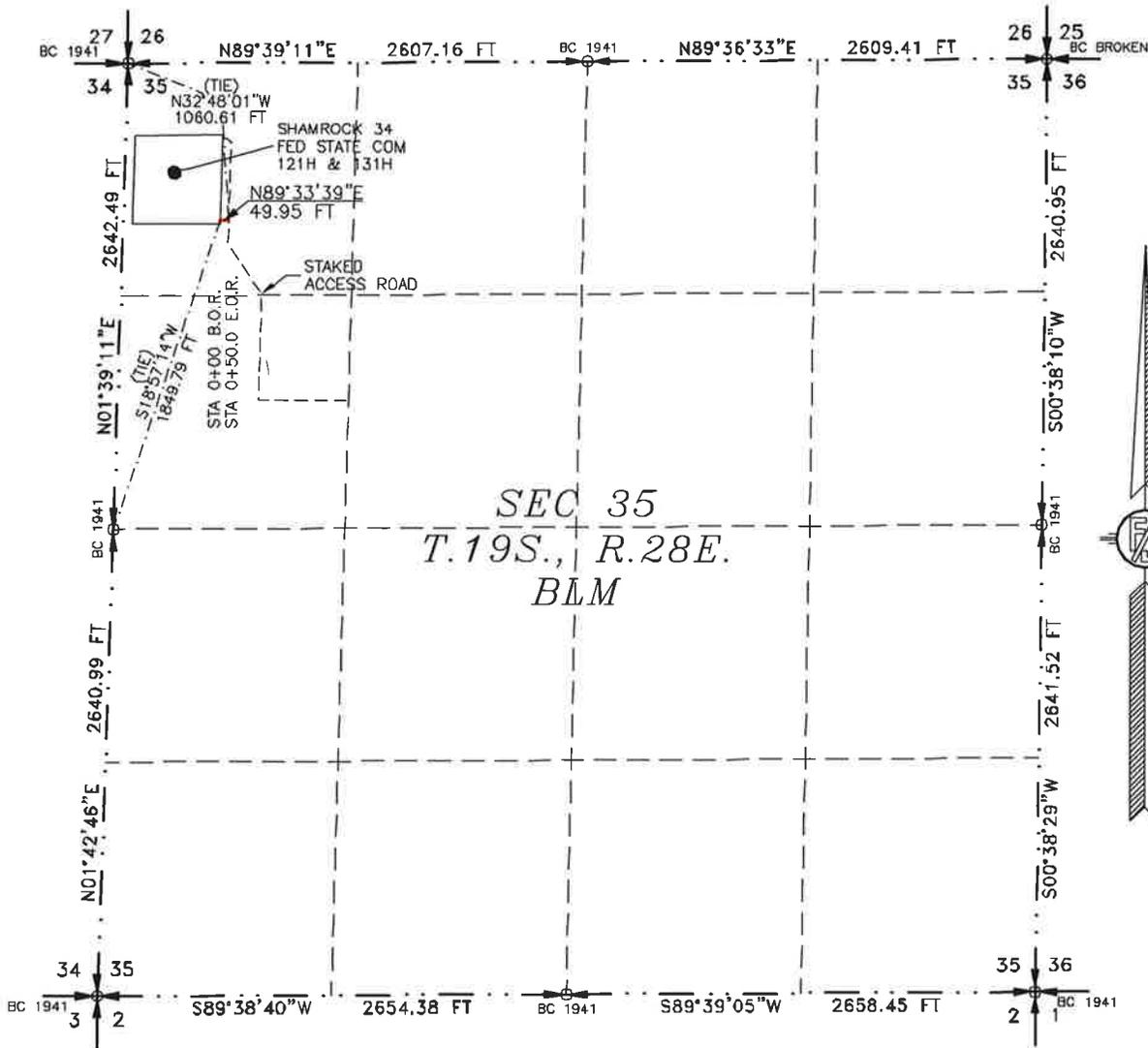
- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

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

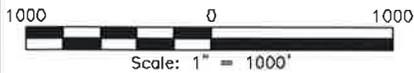
**COLGATE ENERGY LLC**  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 35, TOWNSHIP 19 SOUTH, RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
FEBRUARY 14, 2020



SEC 35  
T.19S., R.28E.  
BLM



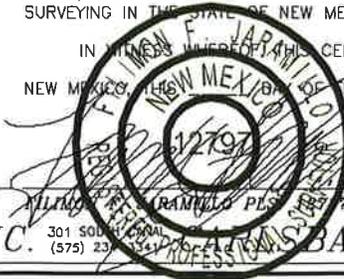
SEE NEXT SHEET (4-4) FOR DESCRIPTION



**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, ON FEBRUARY 2020



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

SURVEY NO. 7988

MADRON SURVEYING, INC. 301 SOUTH CANAL 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: 3-4

**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.

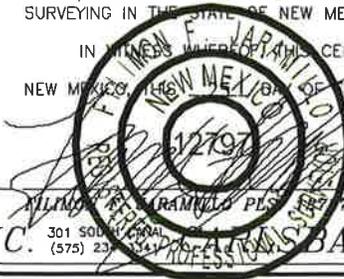
SHEET: 4-4

**MADRON SURVEYING, INC.** 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, ON FEBRUARY 2020



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

SURVEY NO. 7988

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

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

<sup>10</sup> Surface Location

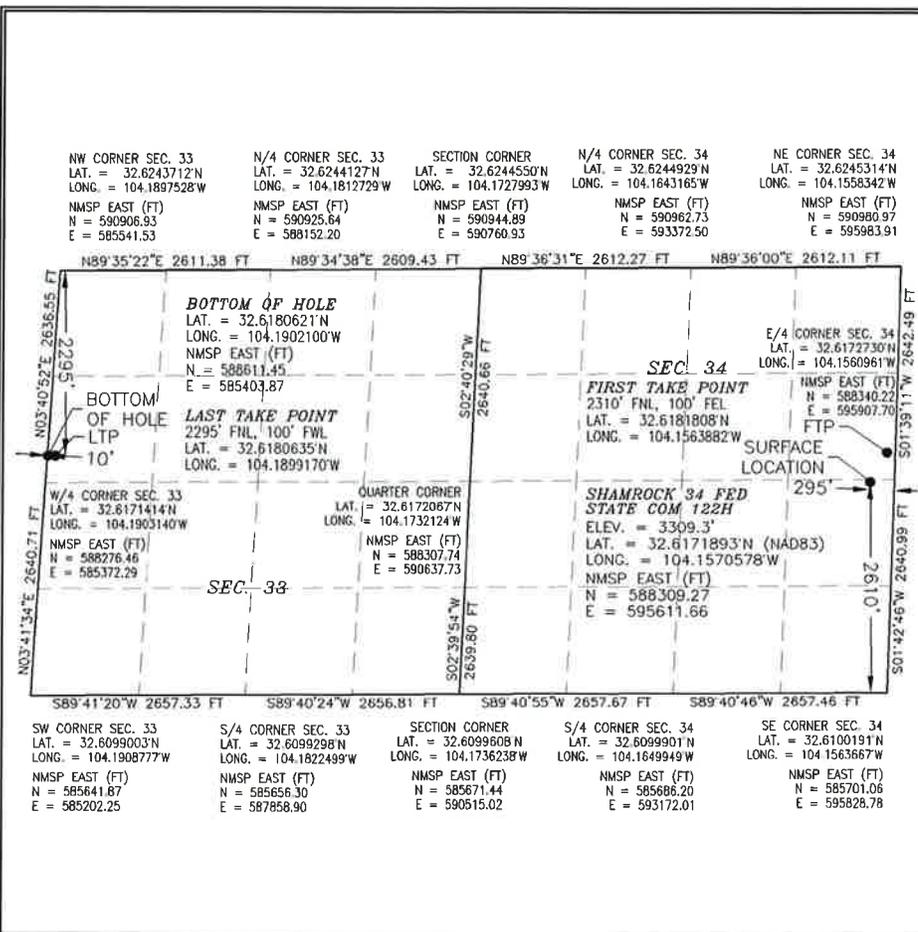
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	19 S	28 E		2610	SOUTH	295	EAST	EDDY

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



**<sup>17</sup> 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 \_\_\_\_\_

**<sup>18</sup> 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: F-1290 JARAMILLO-P/S 12797



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

Last Take Point (LTP)

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

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

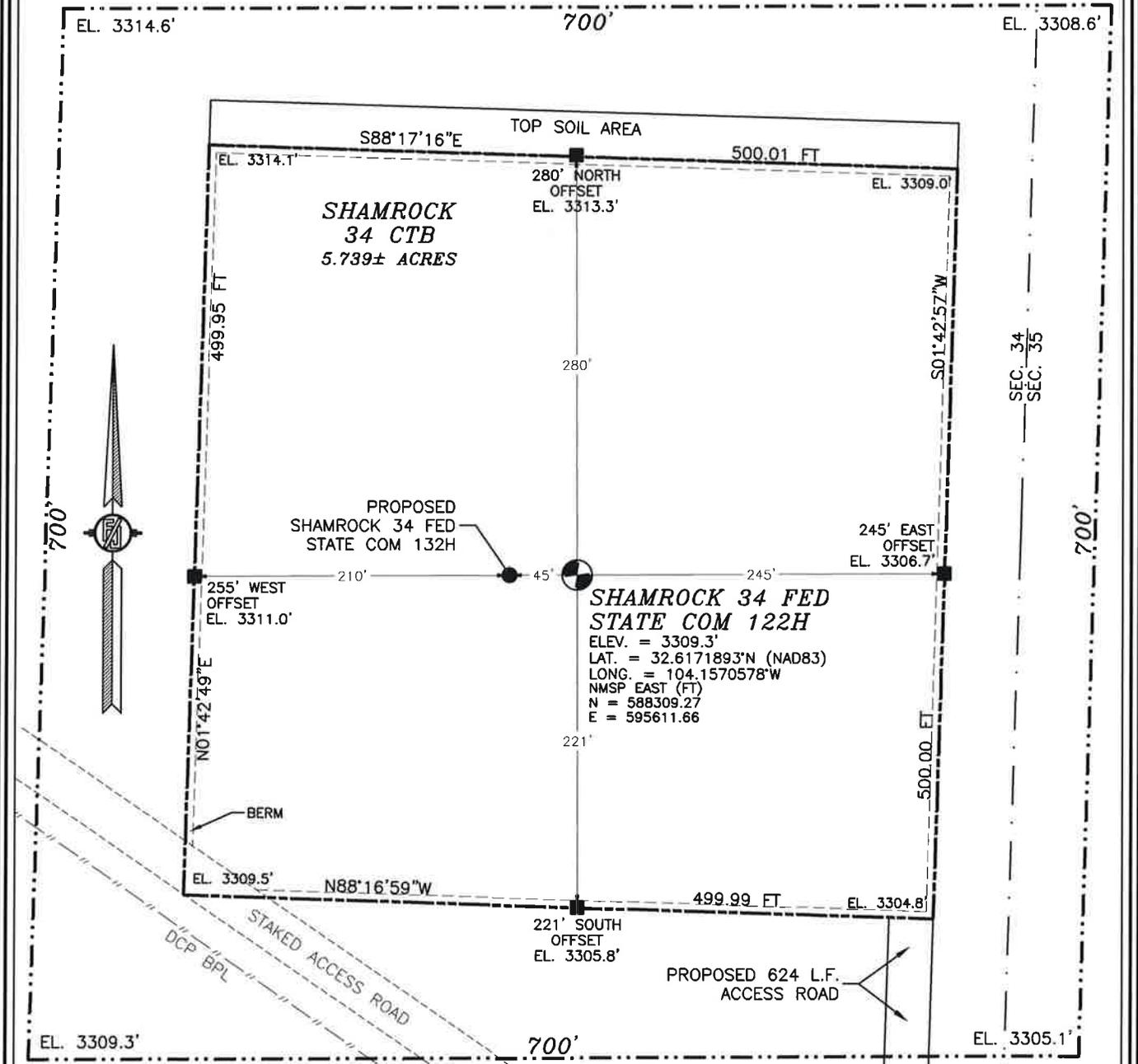
Is this well an infill well?

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 1.75 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 ALONG NORTH 624' TO THE SOUTHEAST PAD CORNER FOR THIS COLGATE.

I, FILIPON E. ROSARIO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THE FOREGOING IS A TRUE AND CORRECT REPRESENTATION OF MY KNOWLEDGE AND BELIEF AT THE TIME THIS SURVEY WAS MADE AND THAT I AM NOT PROVIDING ANY INFORMATION FOR WHICH I AM NOT QUALIFIED OR LICENSED TO DO SO.

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

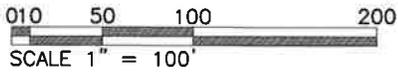
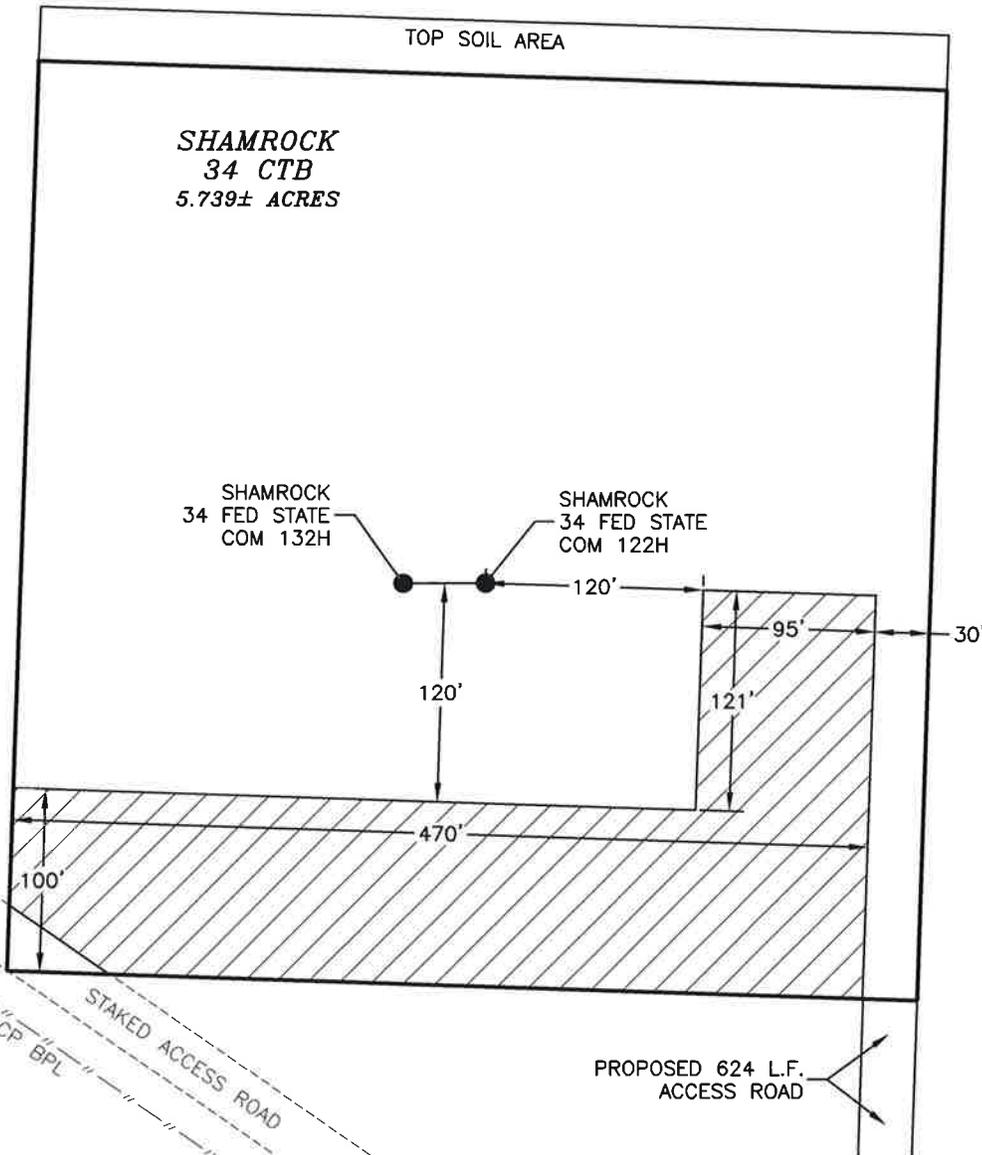
MARCH 18, 2020

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  
INTERIM SITE RECLAMATION

 DENOTES RECLAMATION AREA  
1.323± ACRES RECLAMATION AREA



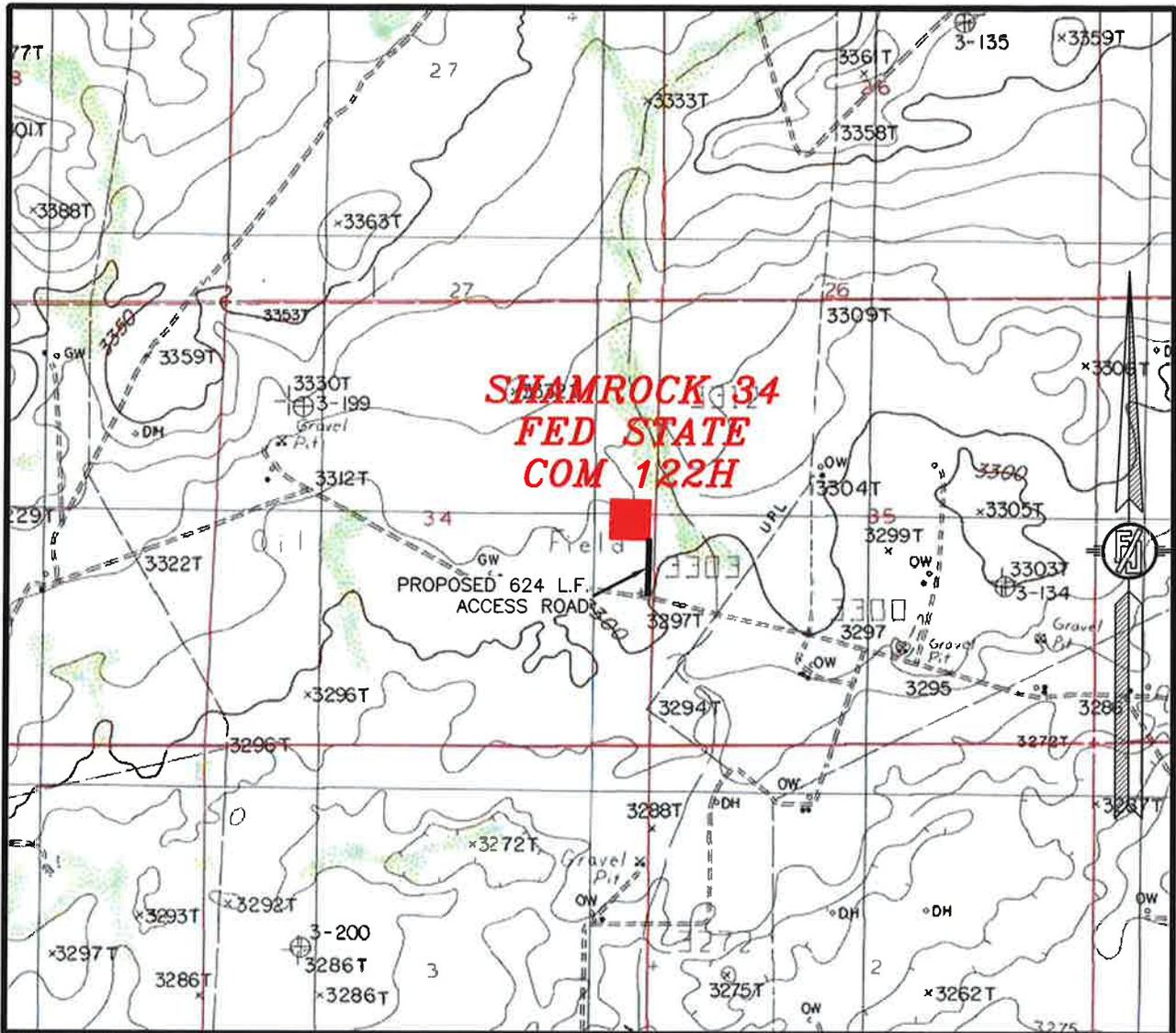
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 122H**  
LOCATED 2610 FT. FROM THE SOUTH LINE  
AND 295 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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

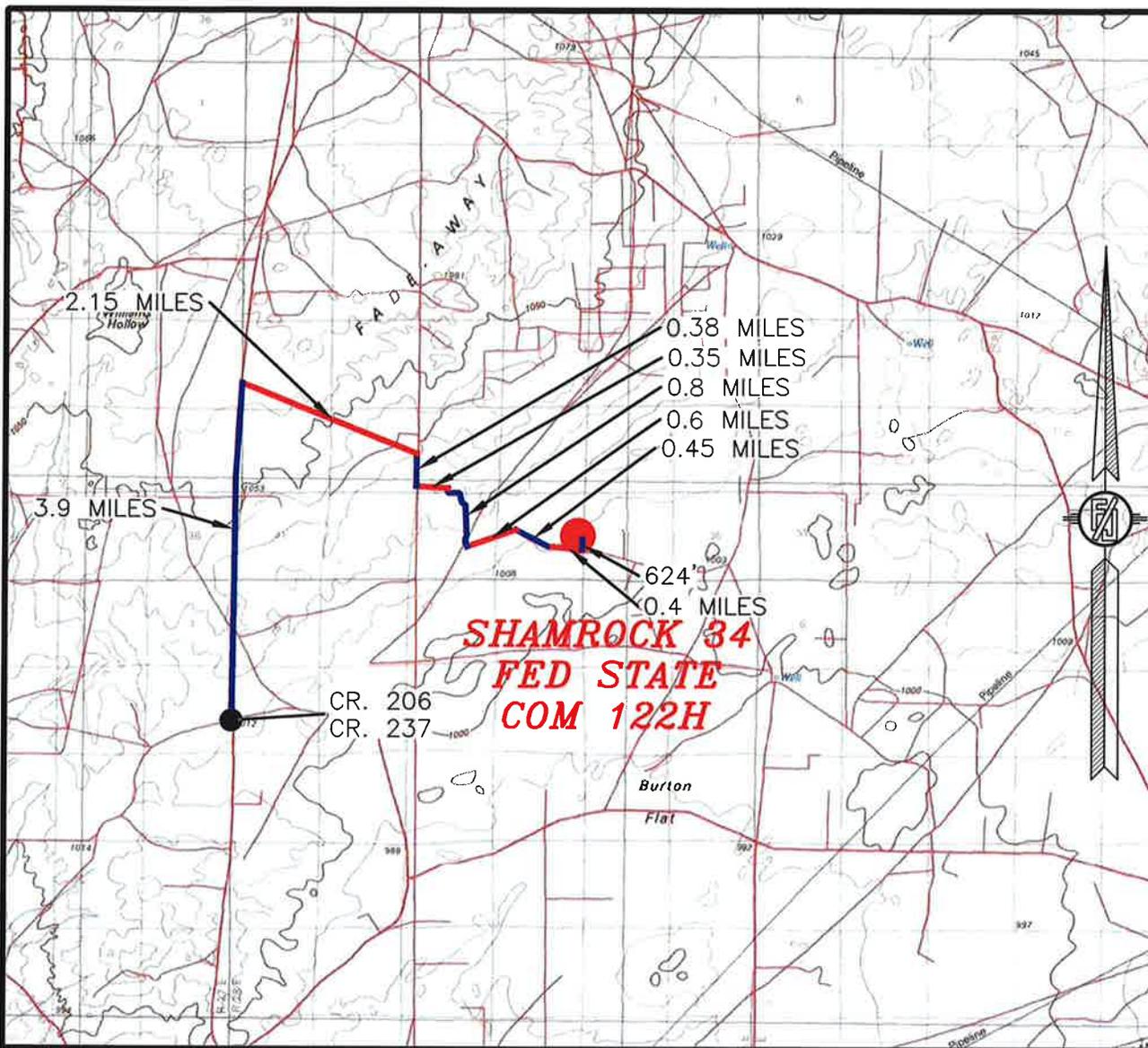
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 122H**  
LOCATED 2610 FT. FROM THE SOUTH LINE  
AND 295 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

SURVEY NO. 7985A

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, 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

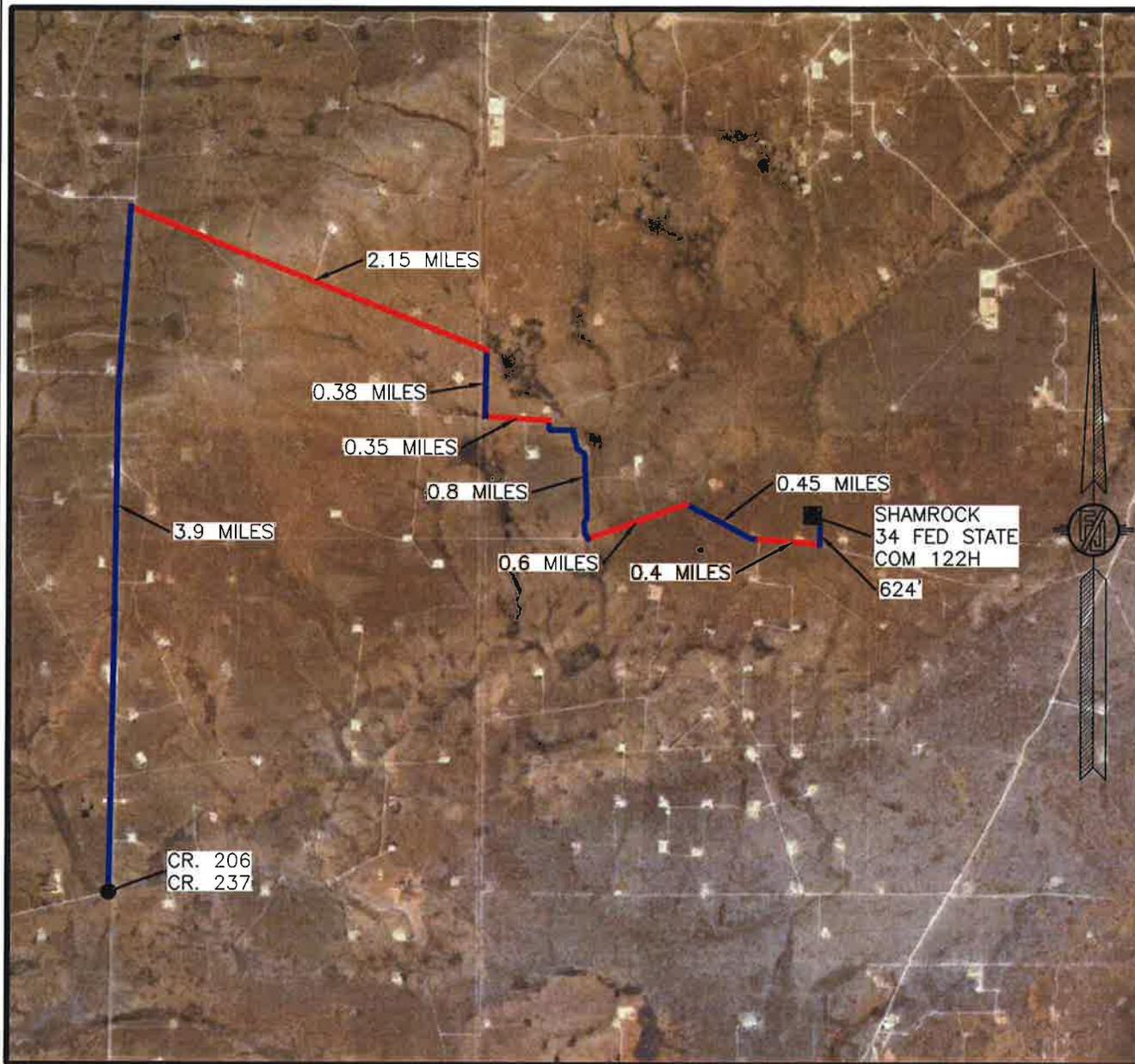
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 122H**  
LOCATED 2610 FT. FROM THE SOUTH LINE  
AND 295 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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

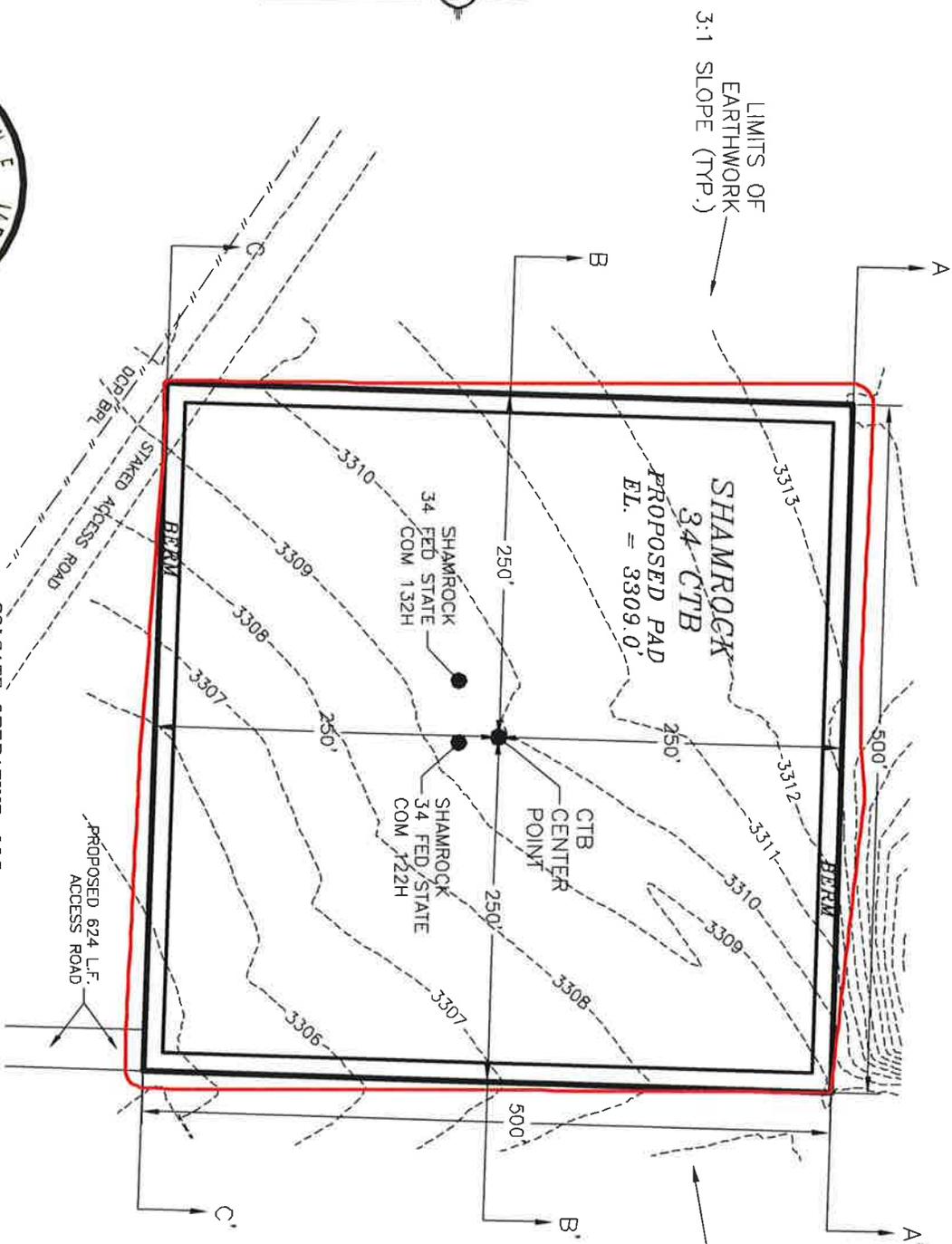
**COLGATE OPERATING, LLC**  
**SHAMROCK 34 FED STATE COM 122H**  
LOCATED 2610 FT. FROM THE SOUTH LINE  
AND 295 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 18, 2020

SURVEY NO. 7985A

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

PLAN VIEW



I, FLIMON F. JARAYAN, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12299, AM RESPONSIBLE FOR THIS SURVEY. I AM THE SURVEYOR AND I AM RESPONSIBLE TO THE BEST OF MY KNOWLEDGE AND BELIEF FOR 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

301 SOUTH GANAL  
 (575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 7985A

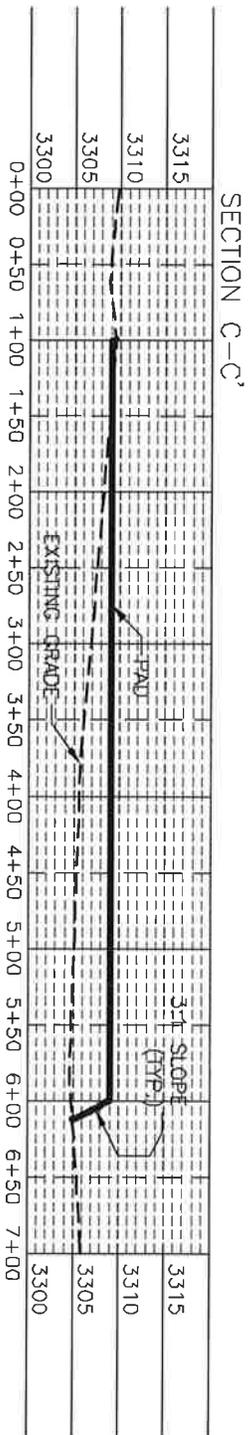
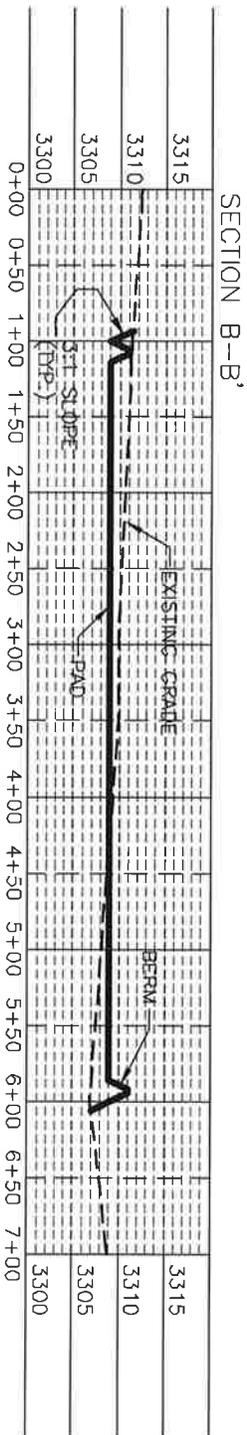
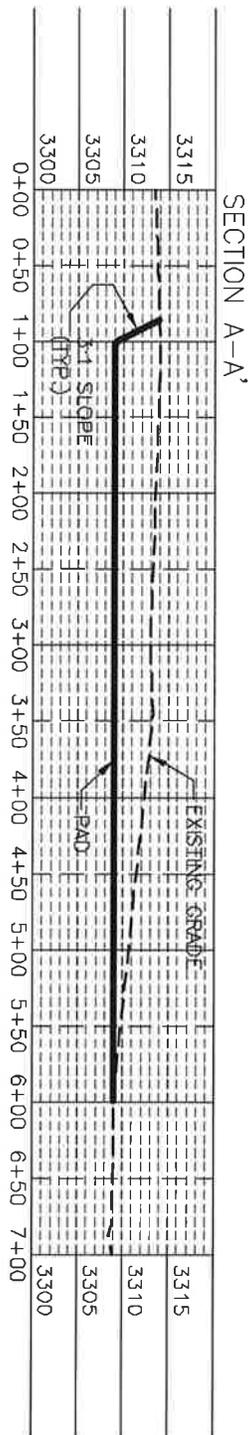
SHEET 1-2



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

EARTHWORK QUANTITIES ARE ESTIMATED

# CROSS-SECTIONS



I, FILMON F. JARAVAN, LICENSED PROFESSIONAL SURVEYOR CERTIFICATE NO. 11429, AMOUNTING TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND I AM RESPONSIBLE FOR THE ACCURACY OF THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE STANDARDS FOR PROFESSIONAL SURVEYING AND PLANNING 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 CARLSBAD, NEW MEXICO

SHEET 2-2 SURVEY NO. 7985A

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

EARTHWORK QUANTITIES ARE ESTIMATED

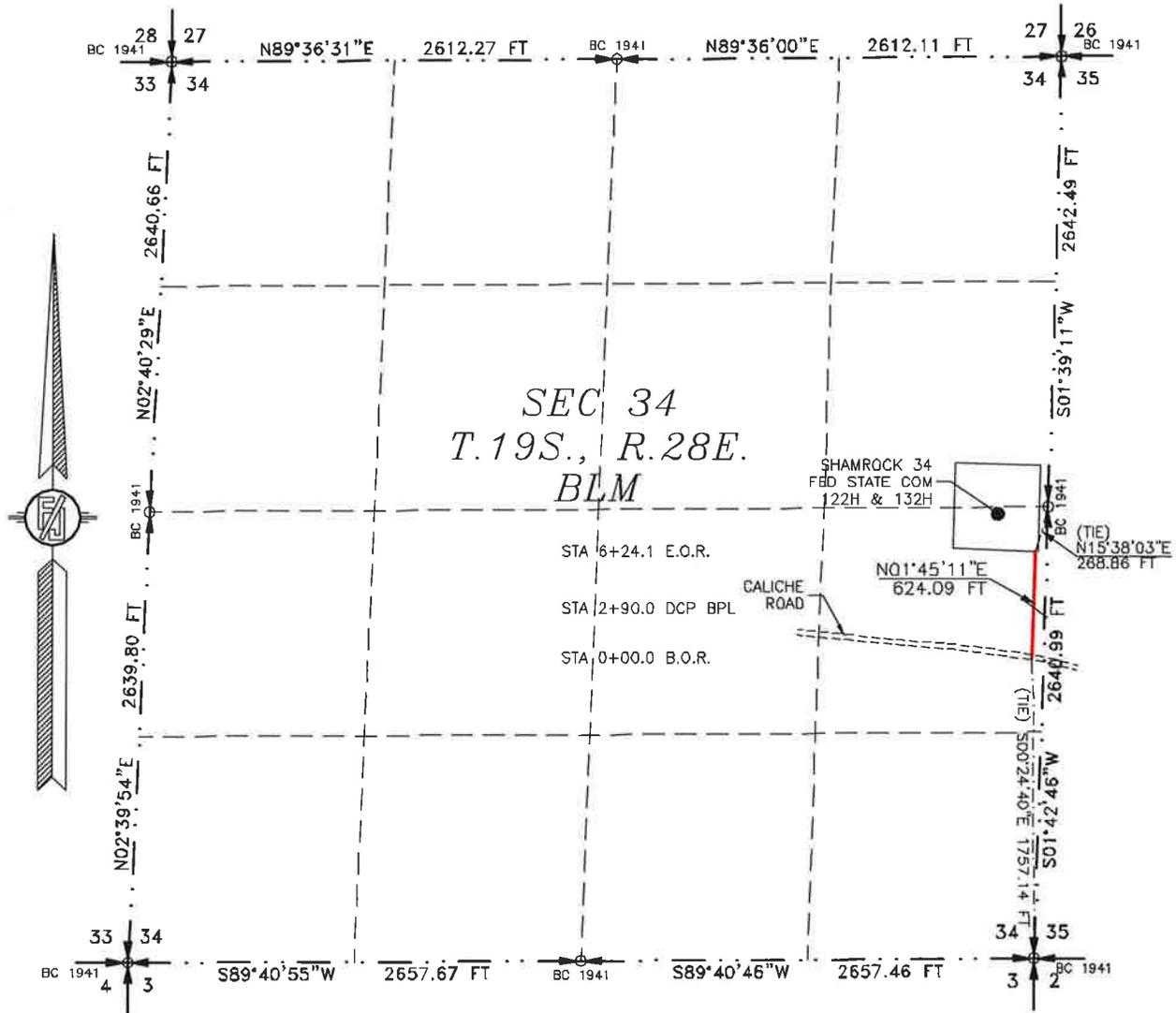
SCALE 1" = 120' - 1" = 20' VER

012 60 120 240

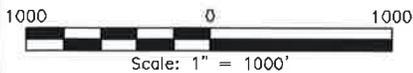
**ACCESS ROAD PLAT**

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 18th DAY OF MARCH 2020

*(Signature)*  
 FILIMON F. JARAMILLO, PLS  
 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. 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 18TH DAY OF MARCH 2020



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  
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

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

<sup>10</sup> 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

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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: \_\_\_\_\_

**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: \_\_\_\_\_



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

Last Take Point (LTP)

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

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

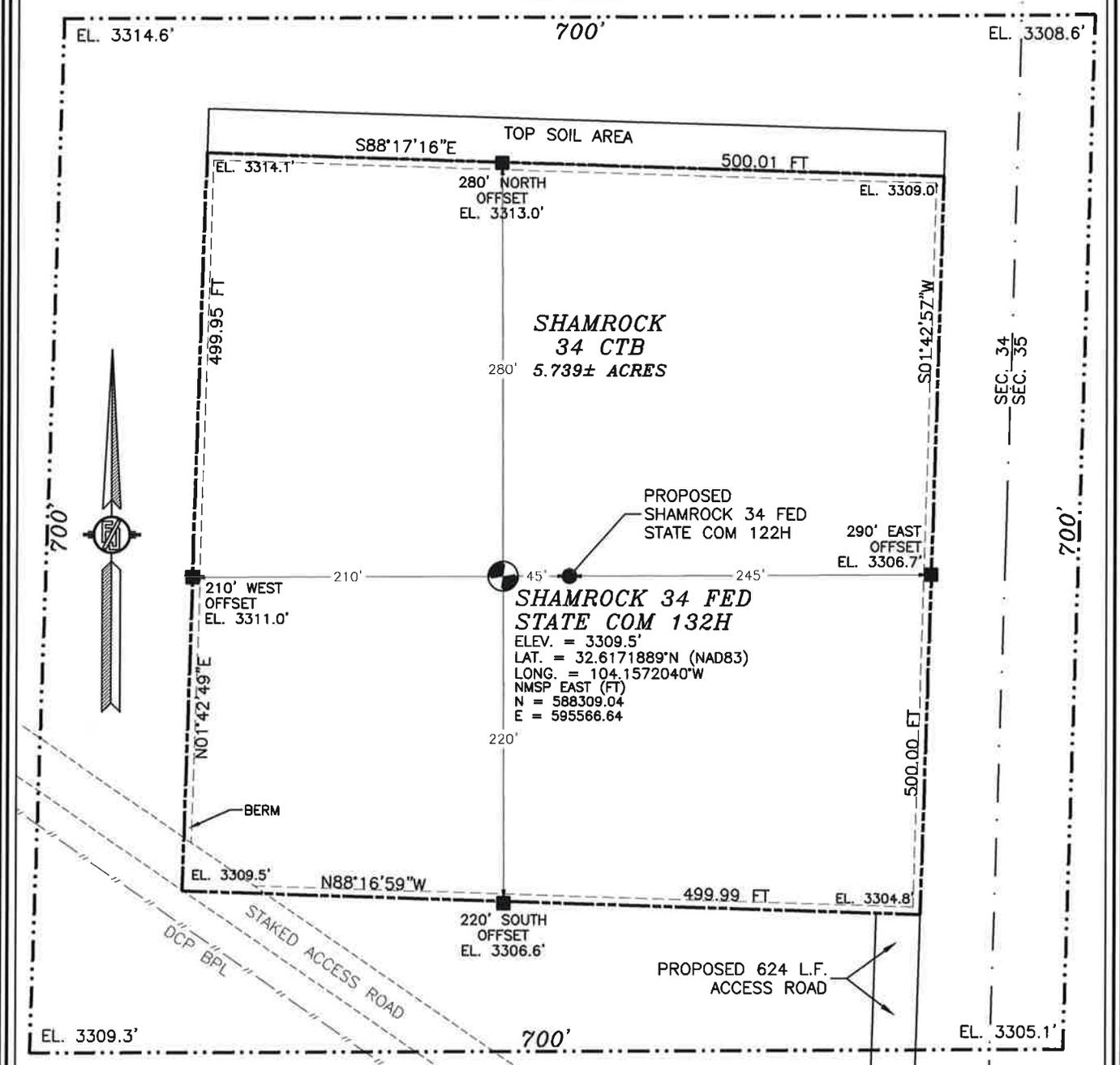
Is this well an infill well?

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



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

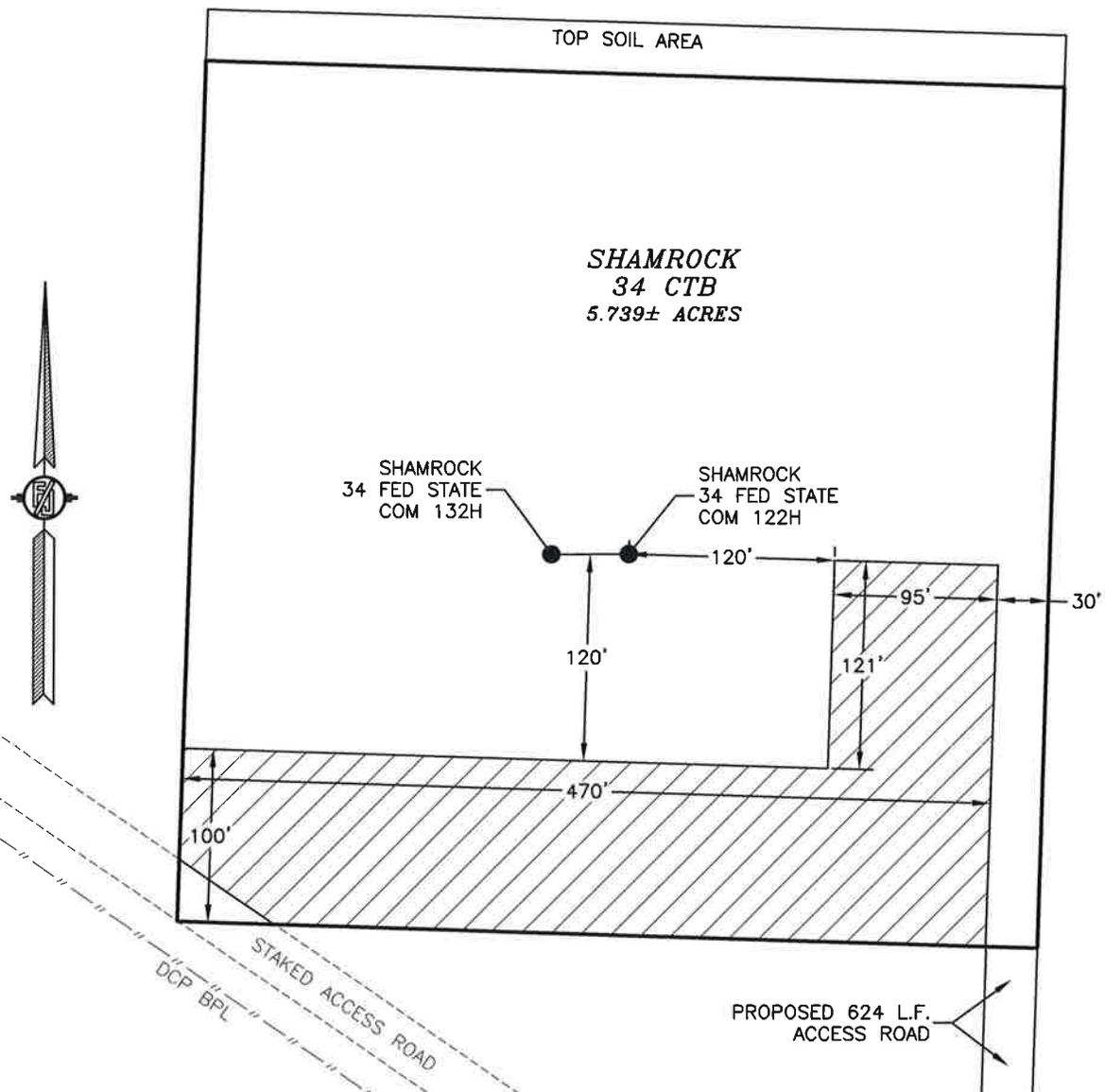
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (575) 234-3341

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 0.3 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 610'S NORTH 624' TO THE  
 SOUTHEAST PAD CORNER FOR THIS SECTION.

I, FILMON E. MADRÓN, NEW MEXICO REGISTERED PROFESSIONAL  
 SURVEYOR CERTIFICATE NO. 2740, DO HEREBY CERTIFY THAT THIS IS  
 A TRUE AND CORRECT COPY OF THE ORIGINAL SURVEY AND THAT TO THE  
 BEST OF MY KNOWLEDGE AND BELIEF IT COMES WITHIN THE STANDARDS OF  
 PRACTICE FOR A PROFESSIONAL SURVEYOR.

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



010 50 100 200  
SCALE 1" = 100'

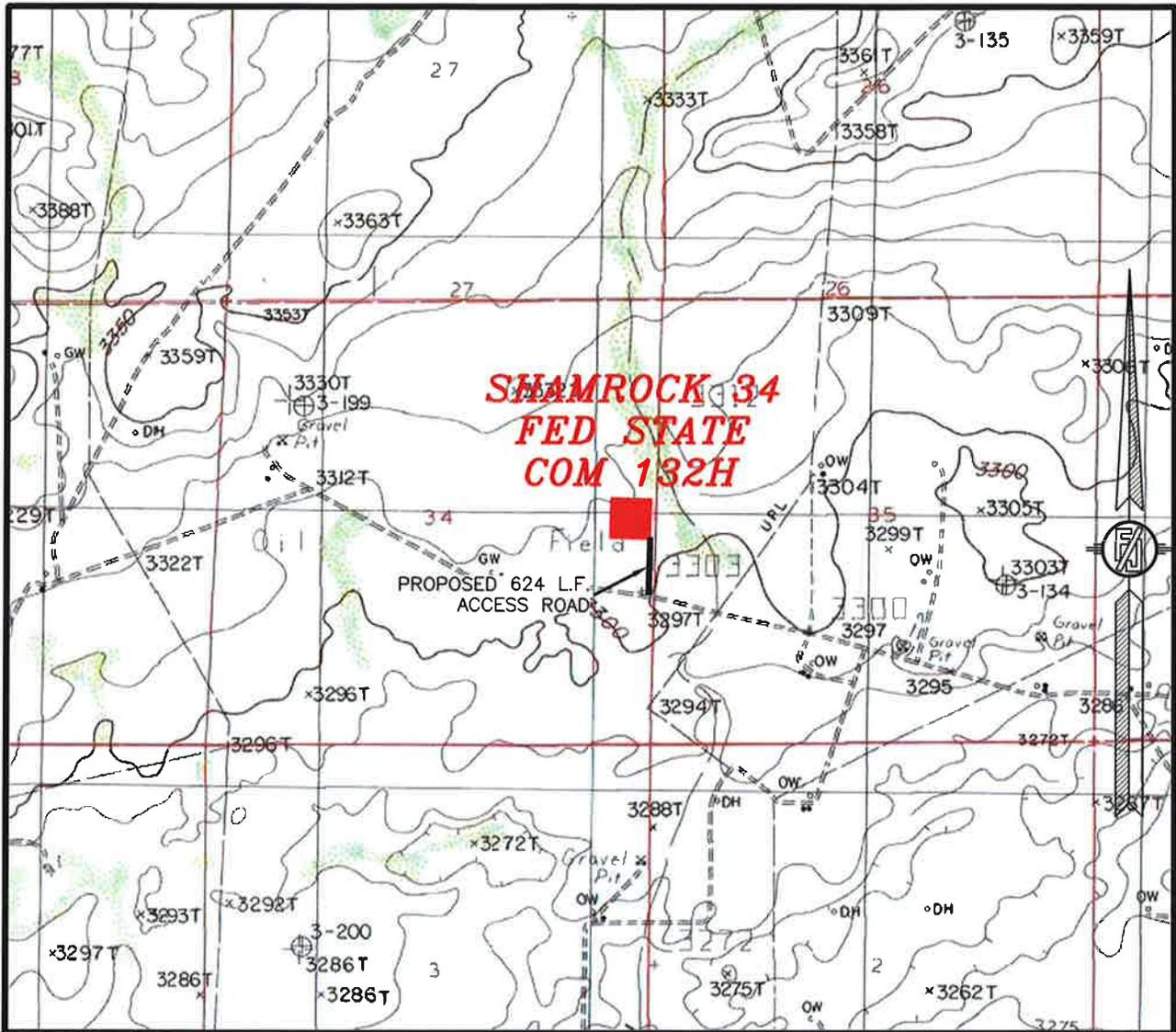
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 132H**  
LOCATED 2610 FT. FROM THE SOUTH LINE  
AND 340 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

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

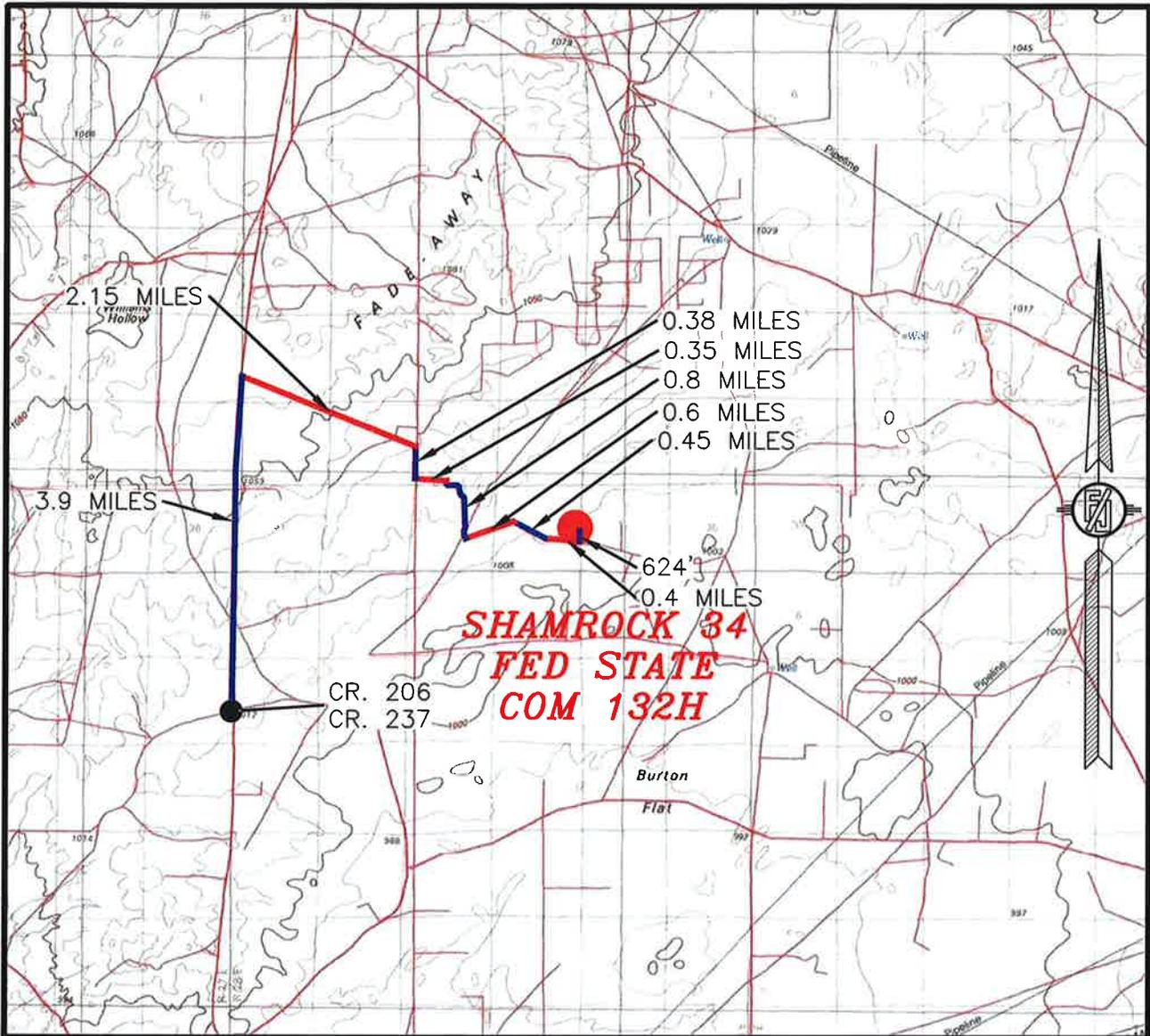
**COLGATE OPERATING, LLC**  
**SHAMROCK 34 FED STATE COM 132H**  
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AND 340 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

MADRON SURVEYING, INC. 301 SOUTH CANAL 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, 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

SURVEY NO. 7986

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  
AERIAL PHOTO



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

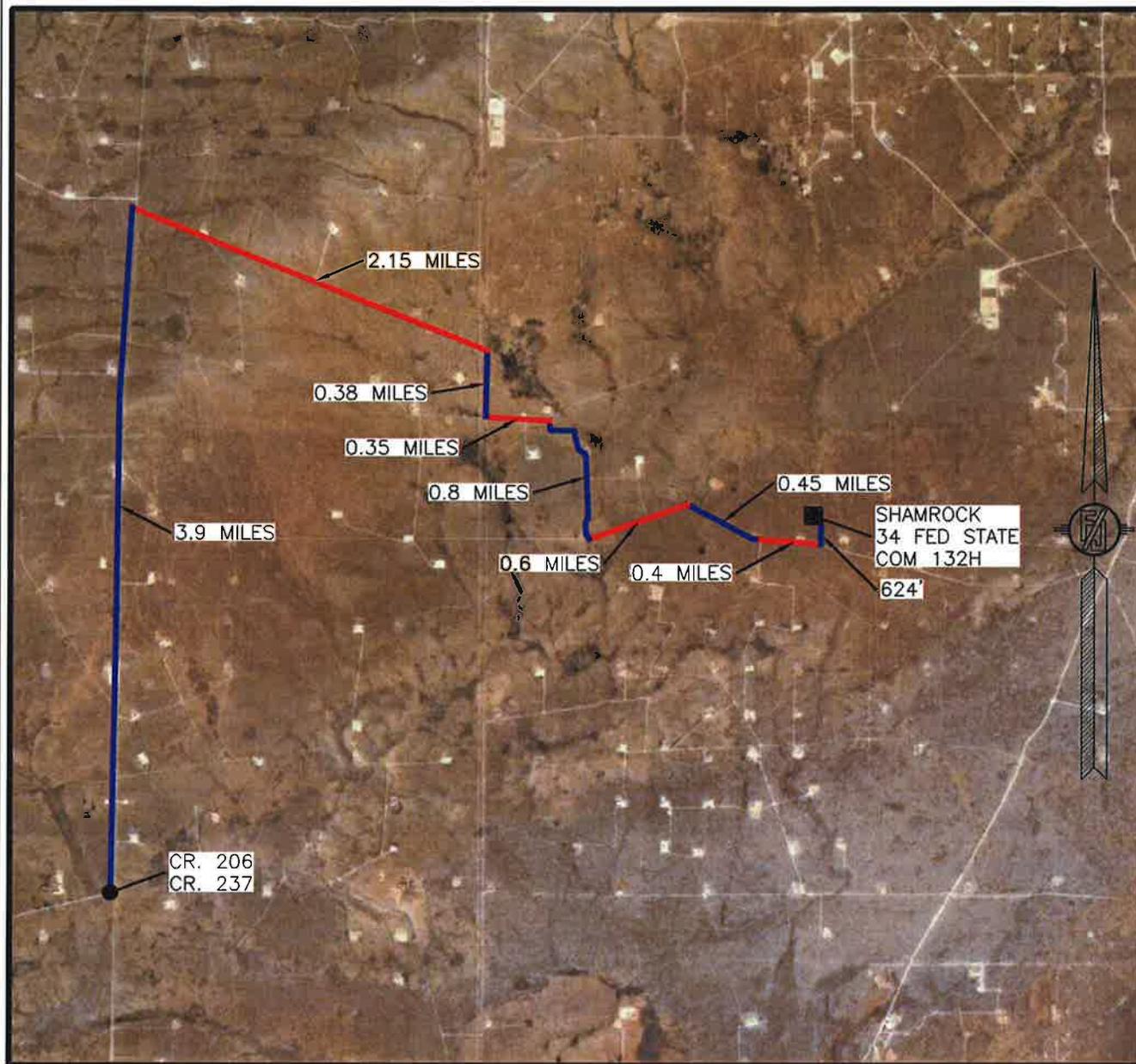
COLGATE OPERATING, LLC  
**SHAMROCK 34 FED STATE COM 132H**  
LOCATED 2610 FT. FROM THE SOUTH LINE  
AND 340 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

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

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

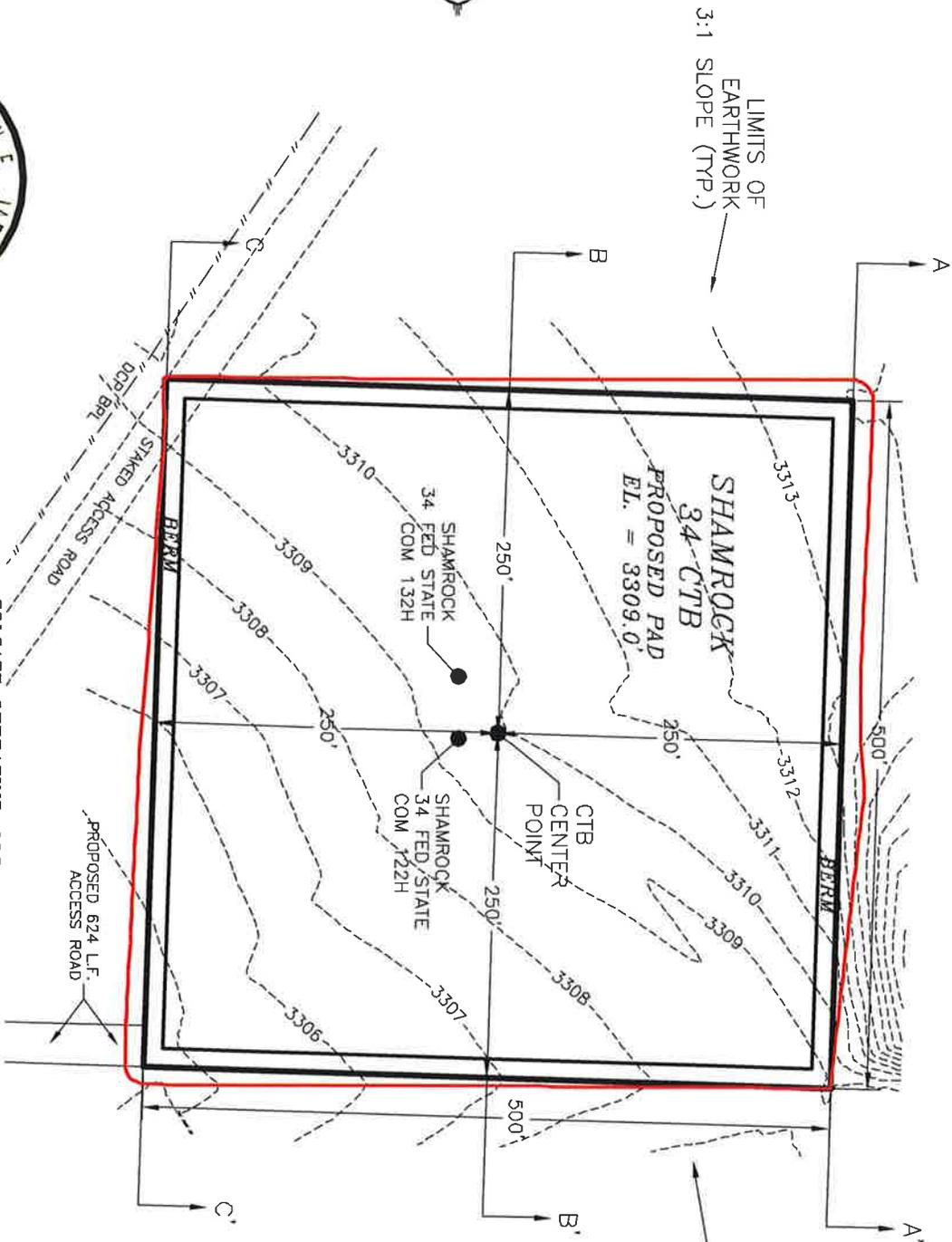
**COLGATE OPERATING, LLC**  
**SHAMROCK 34 FED STATE COM 132H**  
LOCATED 2610 FT. FROM THE SOUTH LINE  
AND 340 FT. FROM THE EAST LINE OF  
SECTION 34, TOWNSHIP 19 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 17, 2020

SURVEY NO. 7986

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

PLAN VIEW



I, FILMON F. JARAVAN, 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 SKILL AND THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR A PROFESSIONAL SURVEY 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 GUAL  
 (505) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 7986

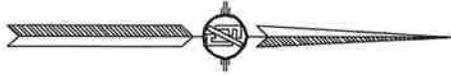
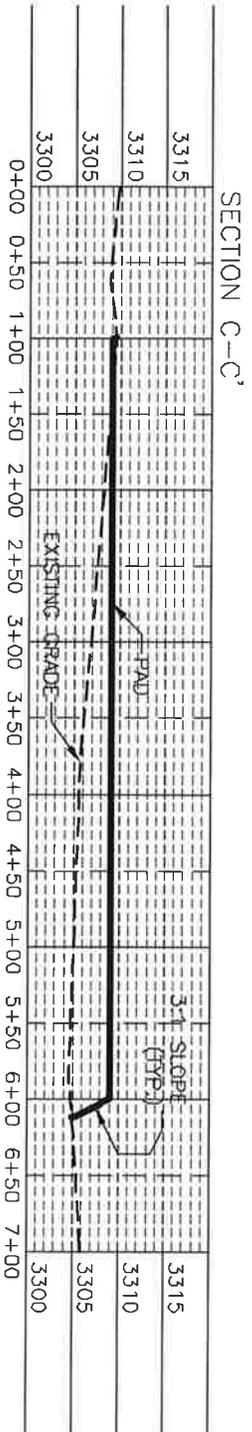
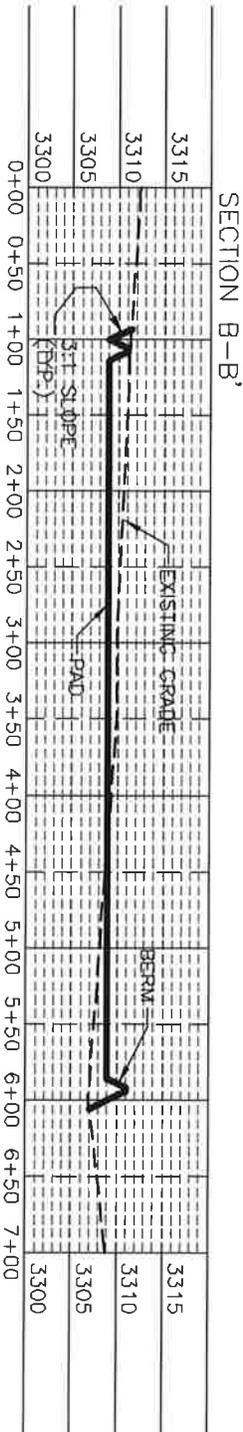
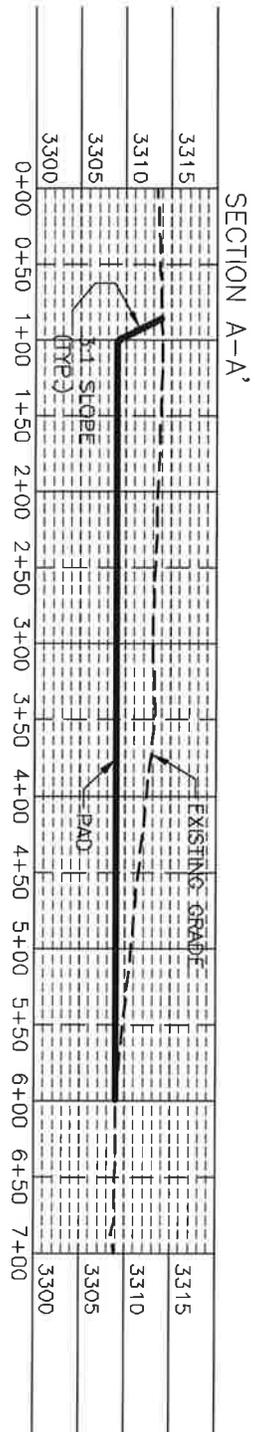
SHEET 1-2

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. 1294, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND SKILLS AND THIS SURVEY AND PLAT 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

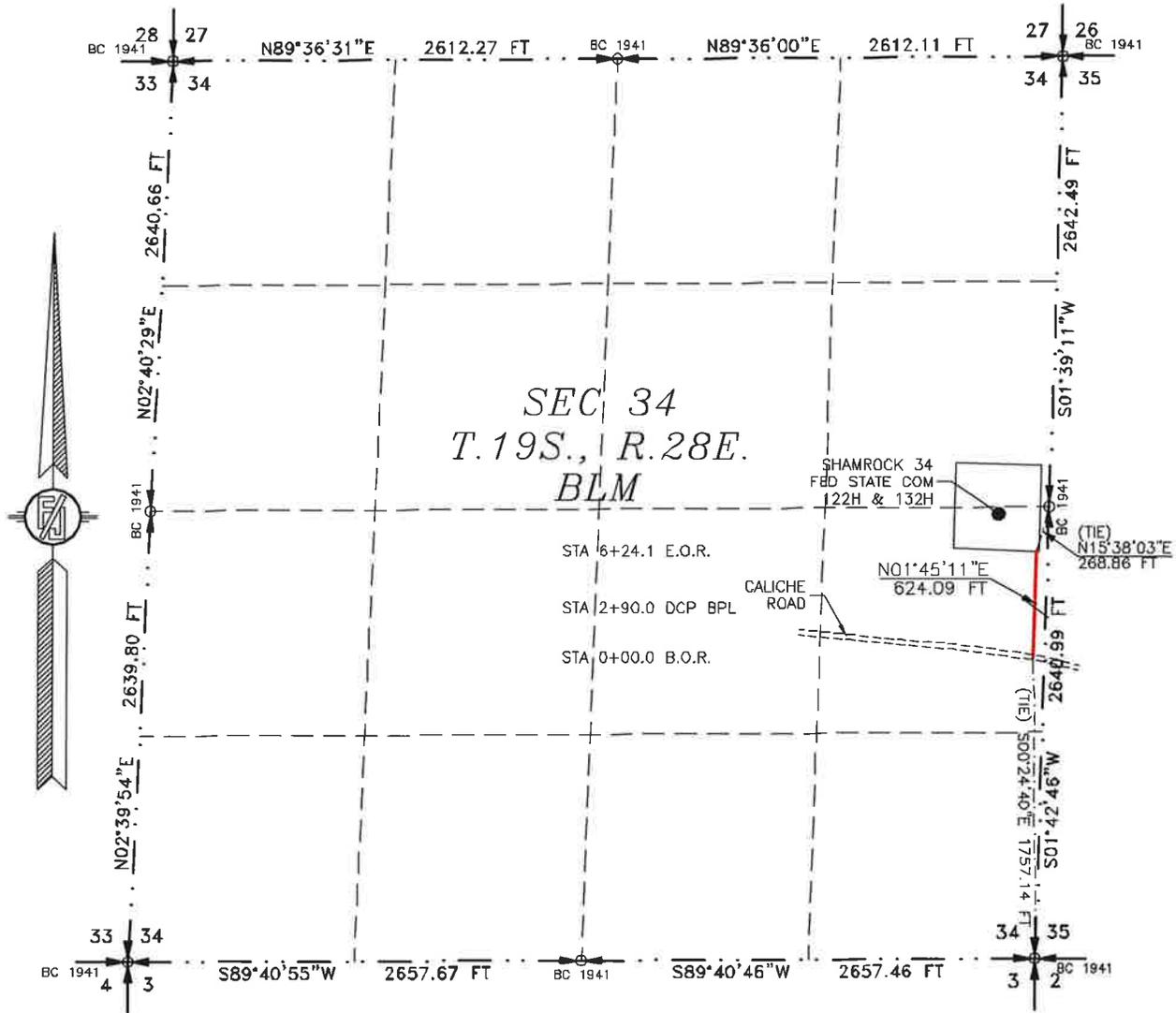
012	60	120	240
SCALE 1" = 120' - 1" = 20' VER			
CUT	FILL	NET	
10119 CU. YD	7312 CU. YD	2807 CU. YD (CUT)	
EARTHWORK QUANTITIES ARE ESTIMATED			

FEBRUARY 17, 2020  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO

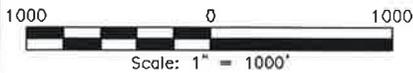
SHEET 2-2  
 SURVEY NO. 7986

**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

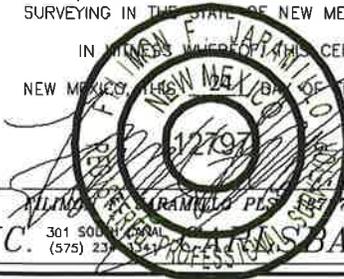
**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

**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 17th DAY OF FEBRUARY 2020



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

**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.

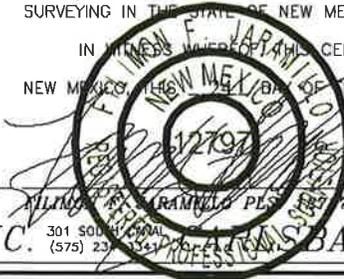
SHEET: 2-2

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

**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, ON 17 FEBRUARY 2020



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

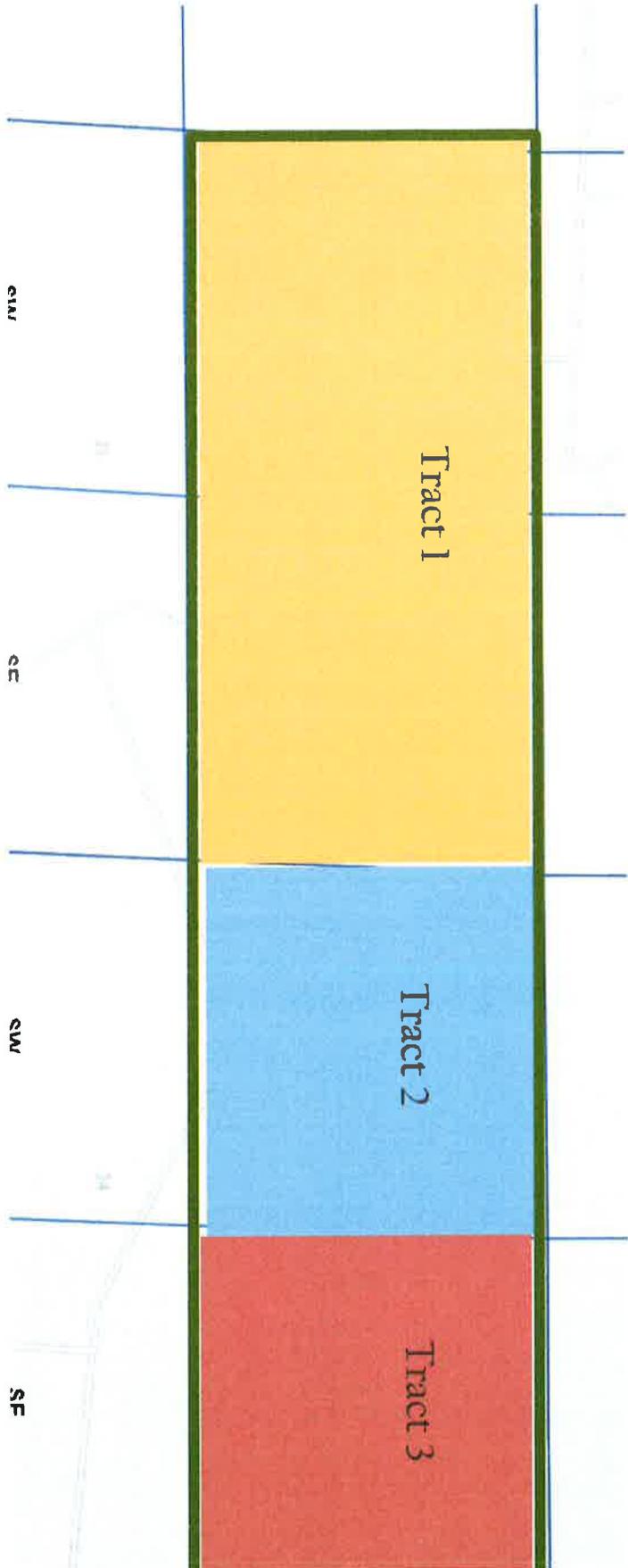
SURVEY NO. 7986

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	NEF	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
Crump 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 Umberger, 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				
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. Ertleson	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

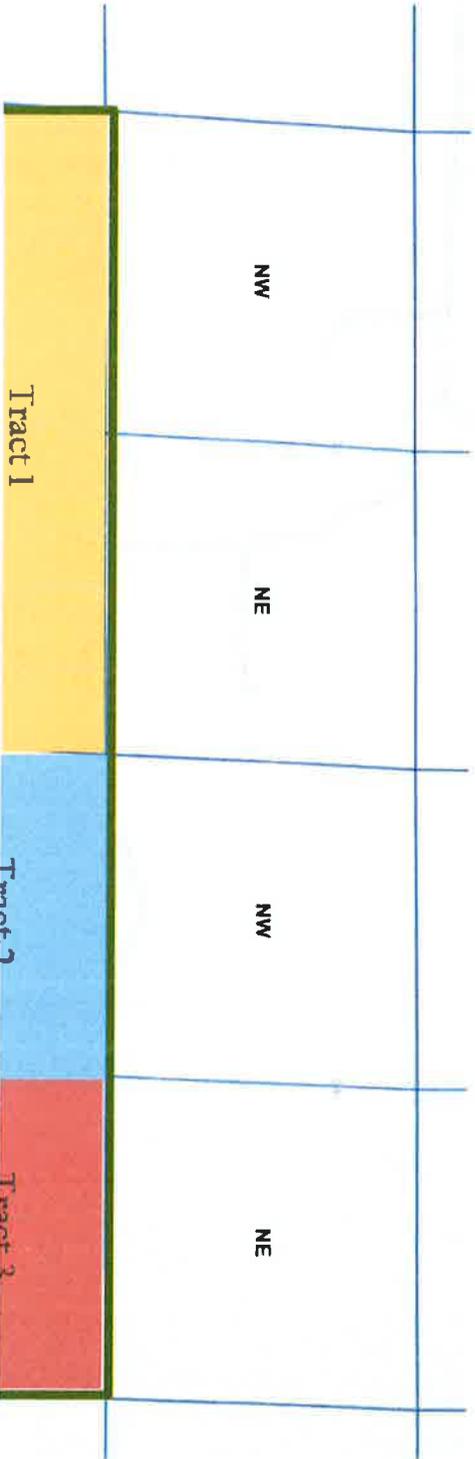
Russel Crammer	3	0.08525	0.013%	Yes
Douglas Crammer	3	0.08525	0.013%	Yes
Elizabeth Tullis Dillard	3	10	1.563%	Yes
Catherine E. Huffman	3	0.0625	0.010%	Yes
Bill Ferguson	2	0.51149	0.080%	Yes
Robert H. Kriebel et ux	2	0.22376	0.035%	Yes
Sombrero Associates	2	0.19181	0.030%	Yes
Katherine Ferguson	3	3.53781	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

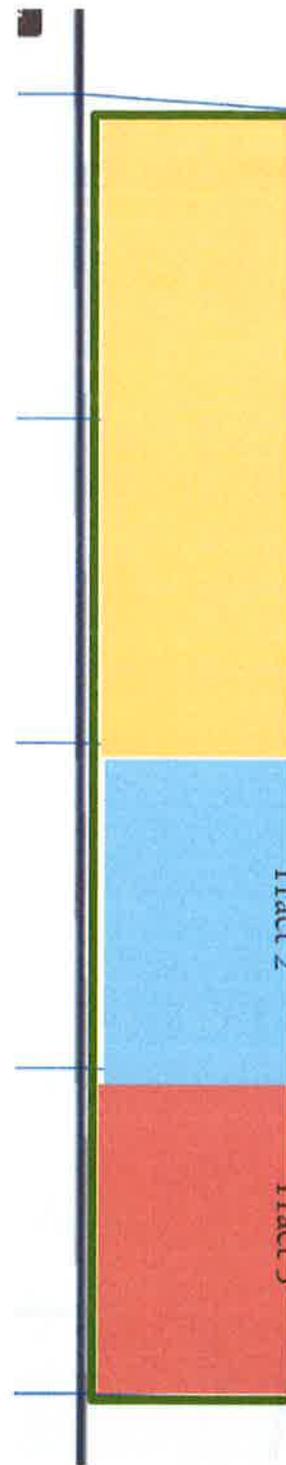
Barbara Brown Egbert	1	2.55	0.398%			Yes
Becky Ruth Welch Kitto	1	0.10417	0.016%			Yes
Bill Ferguson	2,3	1.02298	0.160%			Yes
Billy O Waddill	1	1.25002	0.195%			Yes
Heirs of T. Welch (Bryan Welch)	1	0.10417	0.016%			Yes
Heirs of Thomas F. Welch	1	0.10417	0.016%			Yes
Heirs of James Welch	1	0.10417	0.016%			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





## 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: 2<sup>nd</sup> 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: 2<sup>nd</sup> 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: 3<sup>rd</sup> 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: 3<sup>rd</sup> 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:

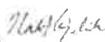
- 100%/300%/300% non-consent provisions
- \$8,000/\$800 drilling and producing rates
- Colgate Operating, LLC named as Operator

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: 2<sup>nd</sup> 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: 2<sup>nd</sup> 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: 3<sup>rd</sup> 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: 3<sup>rd</sup> 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	144,100	-	416,197
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	415,799	8,050	719,902
99 Plugging & Abandonment	-	-	-	-
<b>TOTAL INTANGIBLES &gt;</b>	<b>3,256,577</b>	<b>5,591,293</b>	<b>88,550</b>	<b>8,936,421</b>
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	-	-	-	-
<b>TOTAL TANGIBLES &gt;</b>	<b>487,816</b>	<b>0</b>	<b>502,648</b>	<b>990,464</b>
<b>TOTAL COSTS &gt;</b>	<b>3,744,394</b>	<b>5,591,293</b>	<b>591,198</b>	<b>9,926,885</b>

**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 and may vary considerably as drilling and completion progresses. The AFE may be revised at any time after the well has been completed. In executing this AFE, the Participant agrees to pay the program costs 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 the well. Participants shall be required to fund program costs for the Operator's well and general and special insurance unless a participant provides a written agreement to the contrary.



**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, 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	444,100	716,197	809,294
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	309,976	-	-	309,976
97 Contingency	296,052	413,799	8,050	717,902
99 Plugging & Abandonment	-	-	-	-
<b>TOTAL INTANGIBLES &gt;</b>	<b>3,256,577</b>	<b>5,591,293</b>	<b>88,550</b>	<b>8,936,421</b>

TANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	89,418	-	-	89,418
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	-	-	-	-
<b>TOTAL TANGIBLES &gt;</b>	<b>467,816</b>	<b>0</b>	<b>502,648</b>	<b>990,464</b>
<b>TOTAL COSTS &gt;</b>	<b>3,744,394</b>	<b>5,591,293</b>	<b>591,198</b>	<b>9,926,885</b>

**PREPARED BY Colgate Energy:**

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

**Colgate Energy APPROVAL:**

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

**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 an estimate of actual costs until the well has been completed. By executing this AFE, the Participant agrees to pay the proportionate share of actual costs incurred, including legal, contract, regulatory, permitting and well costs under the terms of the applicable joint operating agreement, regulatory order or other agreement covering this well. Participant shall be deemed to have authorized the Operator to well control and general liability insurance unless participant provides Operator a certificate evidencing its own 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:	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	230,000	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	-	-	-	-
<b>TOTAL INTANGIBLES &gt;</b>	<b>3,323,765</b>	<b>5,718,123</b>	<b>88,550</b>	<b>9,130,439</b>

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	-	-	-	-
<b>TOTAL TANGIBLES &gt;</b>	<b>642,857</b>	<b>0</b>	<b>502,648</b>	<b>1,145,505</b>
<b>TOTAL COSTS &gt;</b>	<b>3,966,622</b>	<b>5,718,123</b>	<b>591,198</b>	<b>10,275,943</b>

777.7690162      1121.200667      2014.890859

**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 should be reviewed on a regular basis as the well is drilled and completed. Following completion approval under this AFE, the Participant agrees to pay its proportionate share of actual costs incurred, including legal, permits, regulatory, wellbore and well-head costs for the term of the applicable joint operating agreement, regulatory and other agreements concerning this well. Participants shall be jointly and severally responsible for the Operator's well control and general liability insurance unless participant provides Operator a certificate evidencing its own insurance or an acceptable third party for the duration of the 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 134H	FIELD:	0
LOCATION:	NM	MD/TVD:	18414 / 8660
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	106,863	209,100	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	472,500	-	645,750
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, CIU	-	140,000	15,500	155,500
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	272,772	164,100	-	736,872
24 Water	25,500	804,714	-	830,214
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 Drig & Completion Overhead	11,250	-	-	11,250
35 Labor	141,000	12,500	10,000	163,500
95 Insurance	33,145	-	-	33,145
97 Contingency	302,196	425,429	8,050	735,675
99 Plugging & Abandonment	-	-	-	-
<b>TOTAL INTANGIBLES &gt;</b>	<b>3,324,155</b>	<b>5,718,123</b>	<b>88,550</b>	<b>9,130,828</b>

TANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
60 Surface Casing	\$ 15,034	\$ -	\$ -	\$ 15,034
61 Intermediate Casing	225,518	-	-	225,518
62 Drilling Liner	-	-	-	-
63 Production Casing	299,964	-	-	299,964
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	-	-	-	-
<b>TOTAL TANGIBLES &gt;</b>	<b>643,346</b>	<b>0</b>	<b>502,648</b>	<b>1,145,994</b>
<b>TOTAL COSTS &gt;</b>	<b>3,967,500</b>	<b>5,718,123</b>	<b>591,198</b>	<b>10,276,821</b>

777.9411927 1121.200667 2015.063036

**PREPARED BY Colgate Energy:**

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

**Colgate Energy APPROVAL:**

Co-CEO	_____	Co-CEO	_____	VP - Operations	_____
VP - Land & Legal	WH	VP - Geosciences	JW		CRM
	BC		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 non-operator, NFE, authorizes the operator to be responsible for all costs under the well plan if the operator drilling operations approved under the AFE that the operator is to evaluate the well has been completed. In executing the AFE, the Participant agrees to pay the pro-rata share of actual costs incurred, including legal, regulatory, brokerage and well costs under the terms of the applicable joint operating agreement, regulatory order or other agreement relating to the well. Participant shall be provided and billed proportionately for Operator's well control and general liability insurance unless participant provides Operator a substitute insurance in an amount acceptable to the Operator for the date of sale.

**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 Well:		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	144,100	-	416,197
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	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	131,000	12,500	10,000	153,500
95 Insurance	30,976	-	-	30,976
97 Contingency	296,052	413,799	8,050	717,902
99 Plugging & Abandonment	-	-	-	-
<b>TOTAL INTANGIBLES &gt;</b>	<b>3,256,577</b>	<b>5,591,293</b>	<b>88,550</b>	<b>8,936,421</b>

TANGIBLE COSTS	DRILLING COSTS	COMPLETION COSTS	PRODUCTION COSTS	TOTAL COSTS
60 Surface Casing	\$ 15,014	\$ -	\$ -	\$ 15,014
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	-	-	-	-
<b>TOTAL TANGIBLES &gt;</b>	<b>487,816</b>	<b>0</b>	<b>502,648</b>	<b>990,464</b>
<b>TOTAL COSTS &gt;</b>	<b>3,744,394</b>	<b>5,591,293</b>	<b>591,198</b>	<b>9,926,885</b>

**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 terms on this AFE are subject to change and may not be consistent with the terms of the lease or other agreements. The AFE may be subject to change after the well has been completed. In reviewing this AFE, the Operator agrees to provide the necessary information, including legal, regulatory, and other information, to the applicable regulatory agencies and to the other parties to the agreement. The Operator shall be responsible for obtaining all necessary permits and licenses. The Operator shall be responsible for obtaining all necessary permits and licenses. The Operator shall be responsible for obtaining all necessary permits and licenses.

**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 Wt:	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.

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	33,250	-	58,250
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, 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 & Diap	-	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	-	-	-	-
<b>TOTAL INTANGIBLES &gt;</b>	<b>3,256,577</b>	<b>5,591,293</b>	<b>88,550</b>	<b>8,936,421</b>

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	-	-	60,618	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	-	-	-	-
<b>TOTAL TANGIBLES &gt;</b>	<b>487,816</b>	<b>0</b>	<b>502,648</b>	<b>990,464</b>
<b>TOTAL COSTS &gt;</b>	<b>3,744,394</b>	<b>5,591,293</b>	<b>591,198</b>	<b>9,926,885</b>

PREPARED BY Colgate Energy:

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

Colgate Energy APPROVAL:

Cu-CEO	WH	Cu-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 materials in this AFE are submitted under and subject to the conditions set forth in the AFE and shall be the property of Colgate Energy. Colgate Energy reserves the right to terminate this AFE at any time prior to the start of operations. The Operator agrees to pay its proportionate share of actual costs incurred including legal, engineering, geology and well costs under the terms of the applicable operating agreement, regulatory and other agreements covering this well. Participants shall be deemed to have accepted the AFE and its terms and general liability insurance policy provisions. Operator certifies to the accuracy of the information on 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/IVD:	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.		

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	106,863	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, CIU	-	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	272,372	464,100	-	736,472
24 Water	25,500	804,744	-	830,244
25 Stimulation	-	2,079,000	-	2,079,000
26 Stimulation Flowback & Dip	-	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	-	-	-	-
<b>TOTAL INTANGIBLES &gt;</b>	<b>3,323,635</b>	<b>5,718,123</b>	<b>88,550</b>	<b>9,130,309</b>

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	299,312	-	-	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	-	-	-	-
<b>TOTAL TANGIBLES &gt;</b>	<b>642,694</b>	<b>0</b>	<b>502,648</b>	<b>1,145,342</b>
<b>TOTAL COSTS &gt;</b>	<b>3,966,329</b>	<b>5,718,123</b>	<b>591,198</b>	<b>10,275,651</b>
	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	_____	Co-CEO	_____	VP - Operations	_____
	WH		JW		CRM
VP - Land & Legal	_____	VP - Geosciences	_____		
	BC		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 table to the AFE are estimates only and may be subject to change in any specific event the full cost of the project. To the maximum extent permitted by law, the AFE shall be deemed to be a non-binding document. In reviewing the 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 orders or other agreement covering the well. Participants shall be covered by and hold 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.





Padilla Law Firm, P.A.  
Ernest I. Padilla

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Plano, Texas 75093

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Plano, Texas 75093

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Return Receipt (hardcopy) \$ 2.85

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ 7.05

Total Postage and Fees \$ 10.45

Sent to Hodge Natural Gas Gathering, LLC  
1013 Centre Road, Suite 403S  
Wilmington, DE 19805

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

CERTIFIED MAIL

E252<40528



0001 4738 0784



Hodge Natural Gas Gathering, LLC  
1013 Centre Road, Suite 403S  
Wilmington, DE 19805

Void  
10-1-14

NIXIE 176 DE 1 0003/14/20  
RETURN TO SENDER  
ATTEMPTED - NOT KNOWN  
UNABLE TO FORWARD  
BC: 87504252323 \*2827-05053-07-19

# Carlsbad Current Argus.

## Affidavit of Publication

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POBOX 2523

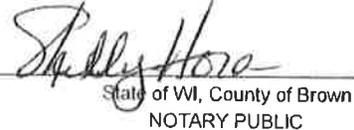
SANTA FE, NM 87504

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

05/22/2020

  
Legal Clerk

Subscribed and sworn before me this May 26, 2020:

  
State of WI, County of Brown  
NOTARY PUBLIC

8-25-23  
My commission expires

SHELLY HORA  
Notary Public  
State of Wisconsin

Ad # 0004204327  
PO #: No. 21227  
# of Affidavits: 1

This is not an invoice

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on May 28, 2020, in the Oil Conservation Division Hearing Room at 1220 South Saint Francis Drive, Santa Fe, New Mexico, before an examiner duly appointed for the hearing. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: <http://www.emnrd.state.nm.us/OCD/announcement.shtml>. Nonetheless, to stay informed as to any changes for hearing procedures you should consult the OCD website for further instructions.

STATE OF NEW MEXICO:

All named parties and persons  
having any right, title, interest  
or claim in the following case  
and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

TO: Russell Cranmer, Robert K. Hillin, Jr., MSU, Robert H. Kreible c/o Larry Evans, Thomas F. Meaders, William Hilliard, Virginia D. Kriz-Neesen, Virginia B. Dean, V. Burfiend, p/k/a Vernon Burfiend, Ted Werts, Shirley Anne Egbert.

Case No. 21226: Application of Colgate Operating, LLC for 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. These wells are located approximately 12 miles NE of Carlsbad, New Mexico. Applicant seeks to dedicate the above referenced horizontal spacing unit 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  
#4204195, Current Argus, May 22, 2020



December 10, 2020

Elizabeth Kaye Tullis Dillard  
1307 Hodges Ave  
Ruston, LA 71270

Re: Proposal to Drill- Compulsory Pooling Order # R-21354-A Dawson 34 Fed Com 123H, 133H, 124H, and 134H (the **Wells**) S/2 of Section 34, S/2 of Section 33, 19S-28E Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review please find copies of the State of New Mexico Oil Conservation Division Compulsory Pooling Order No. R-21354-A (Case No. 21226) (“Pooling Order”) for the above referenced Wells, effective September 28, 2020. Pursuant to the Pooling Order Colgate Operating, LLC submits this letter to you seeking your election to participate in each Well.

Under Article 23 on page 2 of the Pooling Order, you have thirty (30) days following your receipt of this letter to elect to participate and subsequently pay your proportionate share of the well costs or elect to non-consent in these Wells and be considered a “Non-Consenting Pooled Working Interest”. In the event you elect to participate in any of the wells, please forward a copy of this election lettered marked appropriately, completed AFEs for wells you elect to participate in along with your full payment for each Well within the thirty (30) days following your thirty (30) day election period.

These proposed locations and target depths are subject to change depending on any surface or subsurface concerns. Also, the enclosed AFEs represent the Estimated Well Costs that will be incurred to drill and complete these Wells, but those electing to participate in the Wells are responsible for their share of the Actual Well Costs incurred.

If you have any questions or concerns regarding this proposal, please contact me at (432) 257-3886 or [nmorelations@colgateenergy.com](mailto:nmorelations@colgateenergy.com).

Sincerely,

A handwritten signature in blue ink that reads 'Mark Hajdik'.

Colgate Operating, LLC  
Mark Hajdik  
Senior Landman

Case No. 22323  
Colgate Operating  
Exh. A-4

300 N. Marienfeld St., Suite 1000, Midland, Texas 79701  
P: (432) 695-4222 | F: (432) 695-4063  
[www.ColgateEnergy.com](http://www.ColgateEnergy.com)

Non-Operator hereby elects to:

\_\_\_\_\_ participate in the drilling and completion of the Dawson 34 Fed Com 123H

\_\_\_\_\_ non-consent the drilling and completion of the Dawson 34 Fed Com 123H

\_\_\_\_\_ participate in the drilling and completion of the Dawson 34 Fed Com 133H

\_\_\_\_\_ non-consent the drilling and completion of the Dawson 34 Fed Com 133H

\_\_\_\_\_ participate in the drilling and completion of the Dawson 34 Fed Com 124H

\_\_\_\_\_ non-consent the drilling and completion of the Dawson 34 Fed Com 124H

\_\_\_\_\_ participate in the drilling and completion of the Dawson 34 Fed Com 134H

\_\_\_\_\_ non-consent the drilling and completion of the Dawson 34 Fed Com 134H

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 106560

**QUESTIONS**

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 106560
	Action Type: [HEAR] Prehearing Statement (PREHEARING)

**QUESTIONS**

<b>Testimony</b>	
<i>Please assist us by provide the following information about your testimony.</i>	
Number of witnesses	1
Testimony time (in minutes)	20