


Additional Information

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 21187	APPLICANT'S RESPONSE
Date	April 30, 2020
Applicant	Colgate Operating LLC
Designated Operator & OGRID (affiliation if applicable)	Colgate Operating, LLC (OGRID 14744)
Applicant's Counsel:	Modrall Sperling
Case Title:	APPLICATION OF COLGATE OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO, CASE NO. 21187
Entries of Appearance/Intervenors:	None
Well Family	Black Diamond
Formation/Pool	
Formation Name(s) or Vertical Extent:	Bone Spring Formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Bone Spring Formation
Pool Name and Pool Code:	Parkway; Bone Spring (Pool Code: 49622)
Well Location Setback Rules:	Latest Statewide Horizontal Rules Apply
Spacing Unit Size:	240 Acres
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	240 Acres
Building Blocks:	Quarter Quarter Sections
Orientation:	East to West
Description: TRS/County	N/2 S/2 of Section 34, and the N/2 S/2 of the E/2 of Section 33, Township 19 South, Range 29 East, NMPM, Eddy County, New Mexico
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Applicant's Ownership in Each Tract	Exhibit B.5-87
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	See Exhibit B.3-87 and Exhibit B.4-87

Well #1	<p>Black Diamond 34 Fed Com 133H SHL: 1135 feet from the South line and 360 feet from the East line, (Unit P) of Section 34, Township 19 South, Range 29 East, NMPM. BHL: 1750 feet from the South line and 2626 feet from the West line, (Unit J) of Section 33, Township 19 South, Range 29 East, NMPM.</p> <p>Completion Target: 3rd Bone Spring at approx 9,005 feet TVD. Well Orientation: East to West Completion Location expected to be: standard</p>
Horizontal Well First and Last Take Points	Exhibit B.4-87
Completion Target (Formation, TVD and MD)	Exhibit B; Exhibit B.1; Exhibit B.3-87; Exhibit B.4-87; Exhibit C.3 through C.10
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	8,000
Production Supervision/Month \$	800
Justification for Supervision Costs	Exhibit B.6-87 for AFEs
Requested Risk Charge	200%; see Exhibit B
Notice of Hearing	
Proposed Notice of Hearing	Exhibit D.1
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit D.2
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit D.3
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit B; Exhibit B.5-87
Tract List (including lease numbers and owners)	Exhibit B.5-87
Pooled Parties (including ownership type)	Exhibit B.5-87
Unlocatable Parties to be Pooled	Exhibit B.5-87; Exhibit D.2
Ownership Depth Severance (including percentage above & below)	None
Joinder	
Sample Copy of Proposal Letter	Exhibit B.1
List of Interest Owners (ie Exhibit A of JOA)	Exhibit B.5-87
Chronology of Contact with Non-Joined Working Interests	Exhibit B.2
Overhead Rates In Proposal Letter	Exhibit B.5-87
Cost Estimate to Drill and Complete	Exhibit B.6-87 for AFEs
Cost Estimate to Equip Well	Exhibit B.6-87 for AFEs
Cost Estimate for Production Facilities	Exhibit B.6-87 for AFEs
Geology	

Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibits B.4-87, C.2, and C.3
Gunbarrel/Lateral Trajectory Schematic	Exhibit C.3
Well Orientation (with rationale)	Exhibit C
Target Formation	Exhibits C.3 through C.10
HSU Cross Section	Exhibits C.7 through C.10
Depth Severance Discussion	Exhibit B
Forms, Figures and Tables	
C-102	Exhibitc B.4-87
Tracts	Exhibit B.5-87
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit B.5-87
General Location Map (including basin)	Exhibit C.1
Well Bore Location Map	Exhibits C.2 through C.10
Structure Contour Map - Subsea Depth	Exhibits C.4 and C.6
Cross Section Location Map (including wells)	Exhibit C.2
Cross Section (including Landing Zone)	Exhibits C.7 through C.10
Additional Information	
Special Provisions/Stipulations	None
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Lance Hough
Signed Name (Attorney or Party Representative):	
Date:	5/12/2020

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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


WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name BLACK DIAMOND 34 FED	⁶ Well Number 133H
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁹ Elevation 3330.1

¹⁰ Surface Location									
UL or lot no. P	Section 34	Township 19 S	Range 29 E	Lot Idn	Feet from the 1135	North/South line SOUTH	Feet from the 360	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. J	Section 33	Township 19 S	Range 29 E	Lot Idn	Feet from the 1750	North/South line SOUTH	Feet from the 2626	East/West line EAST	County EDDY
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowance will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>				
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MAY 8, 2020</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: WILLIAM F. JARAMILLA, PLS 12797 SURVEY NO. 7734B</p>				

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

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
Latitude					Longitude				NAD

Last Take Point (LTP)

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

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

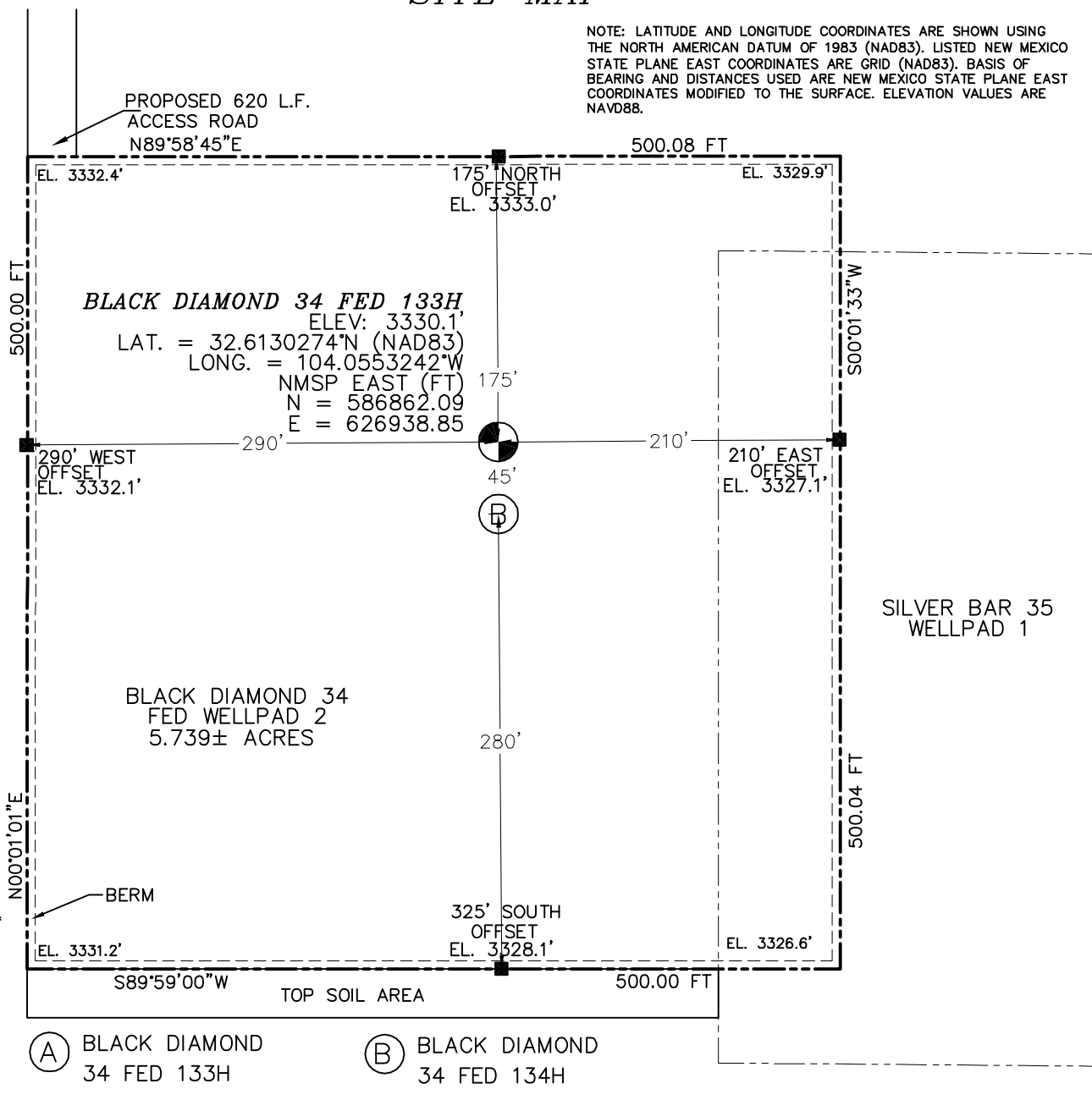
Is this well an infill well? ☐

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

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.



0 10 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 235 (CURRY COMB) AND CR. 210 (OLD LOCO) GO EAST-SOUTHEAST ON CR. 235 3.4 MILES, TURN RIGHT AND GO SOUTH 0.59 MILES, BEAR RIGHT AND GO WEST 0.1 MILE, TURN LEFT AND GO SOUTH 0.8 MILES, TURN RIGHT AND GO WEST 1.45 MILES TO ROAD SURVEY AND FOLLOW FLAG SOUTH 620' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

I, FILMON E. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT THE DIRECTIONS AND DISTANCES OF THIS SURVEY, THAT I HAVE MADE, ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT I HAVE COMPLIED WITH THE MINIMUM STANDARDS FOR SUCH SURVEYS.

FILMON E. JARAMILLO, P.E. 7902

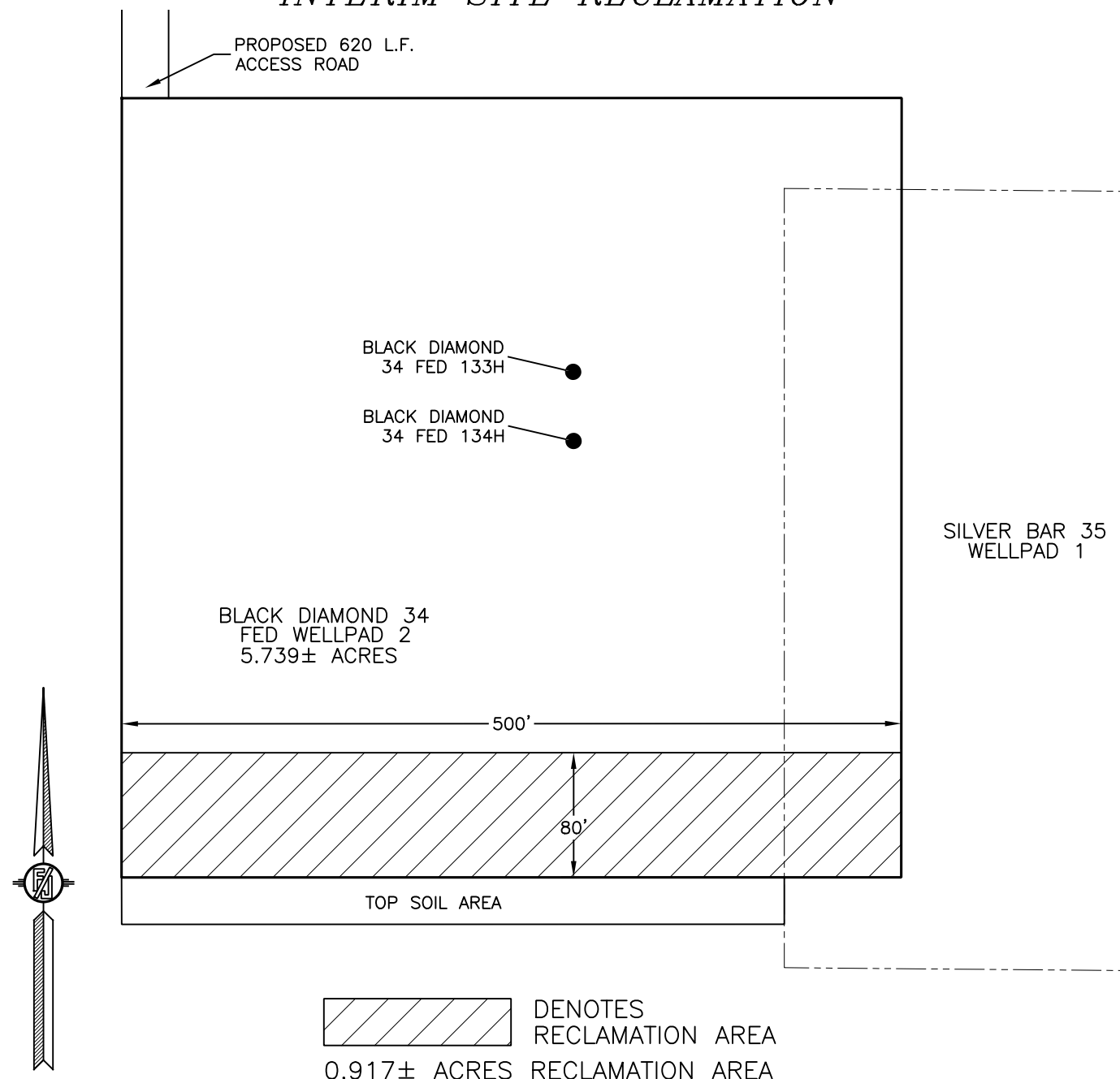
COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 133H
LOCATED 1135 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

SURVEY NO. 7734B

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

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 133H
LOCATED 1135 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

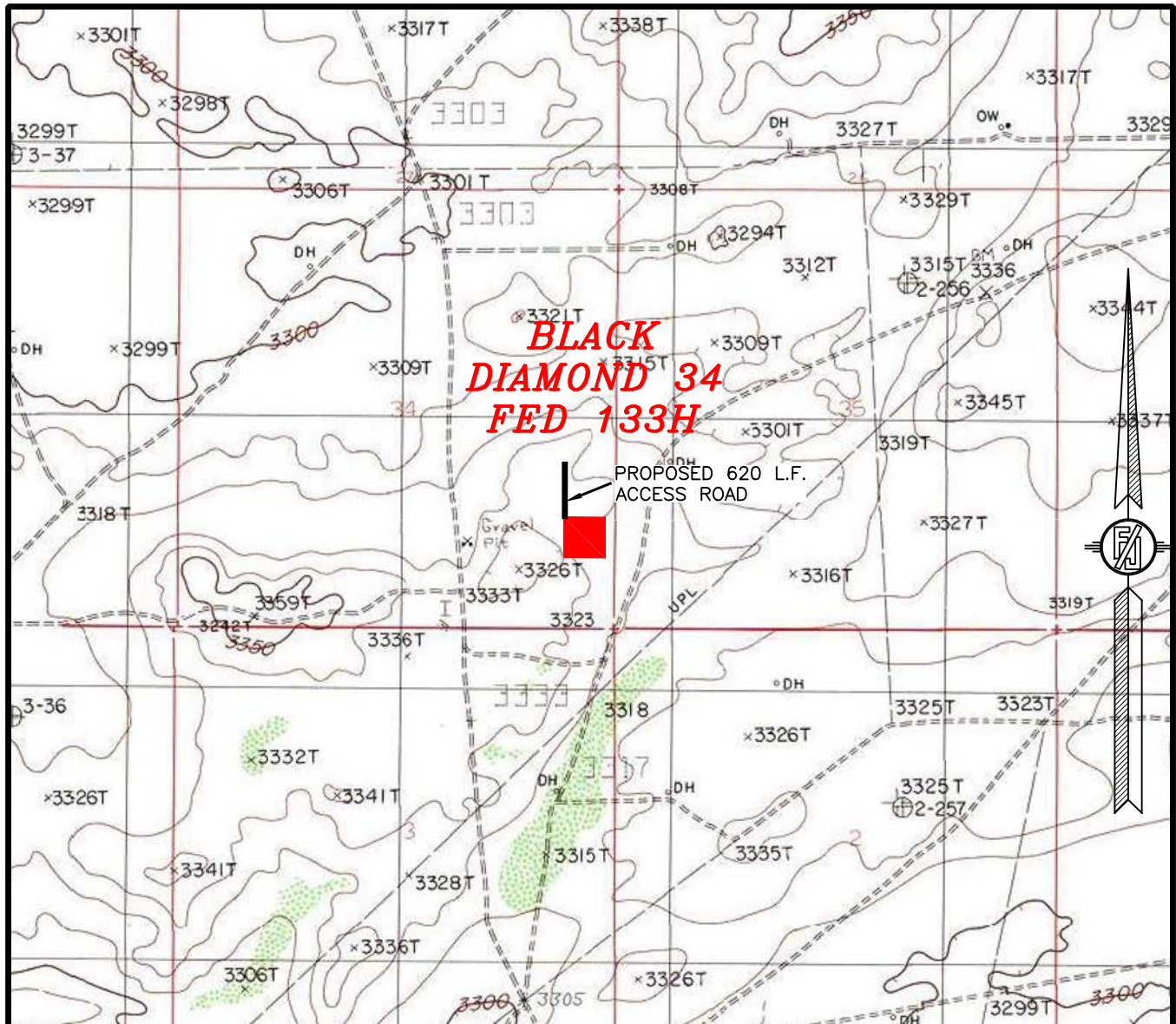
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 7734B

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ILLINOIS CAMP SE

NOT TO SCALE

COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 133H
LOCATED 1135 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

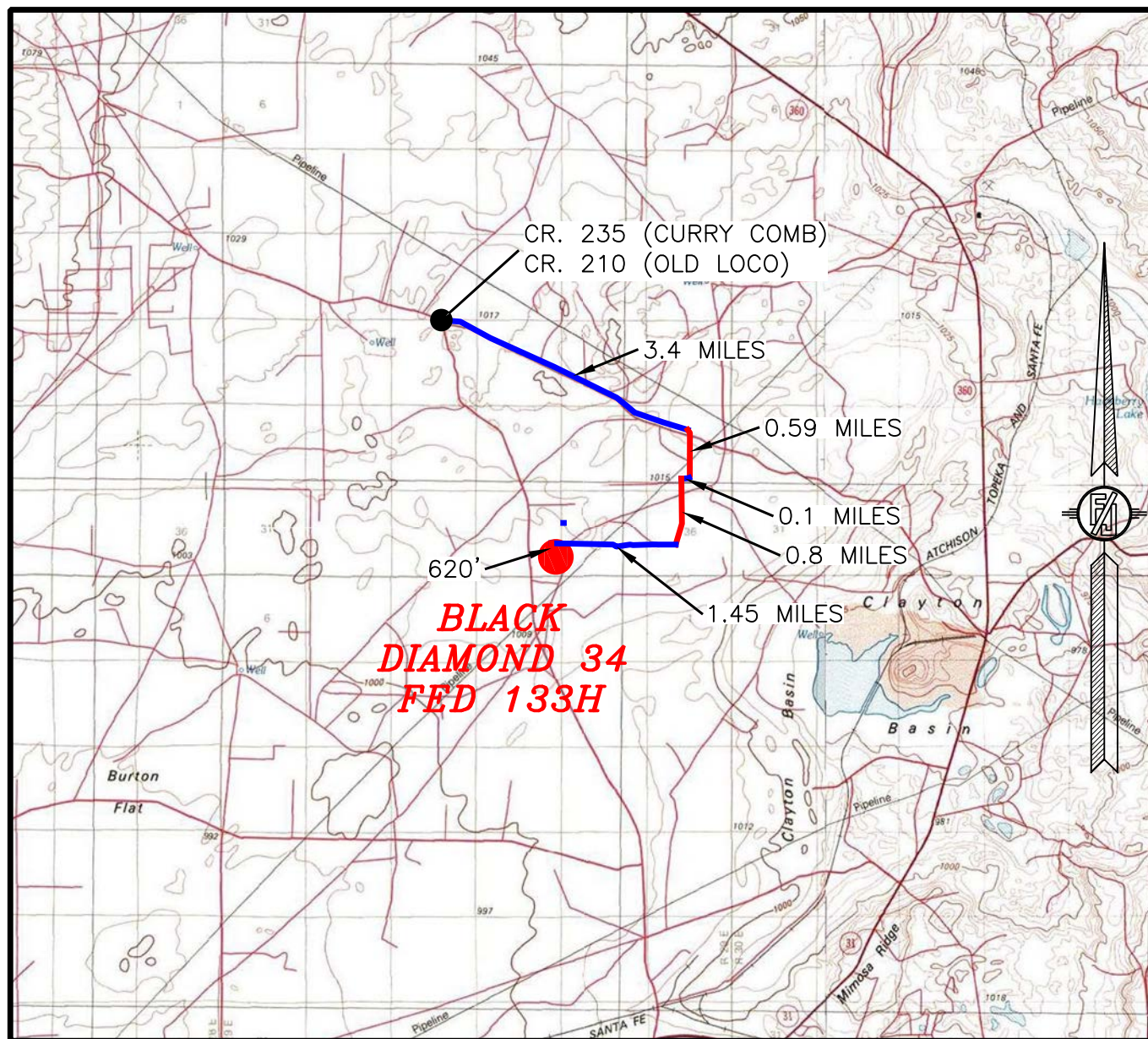
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 7734B

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 235 (CURRY COMB) AND CR. 210 (OLD LOCO) GO EAST-SOUTHEAST ON CR. 235 3.4 MILES, TURN RIGHT AND GO SOUTH 0.59 MILES, BEND RIGHT AND GO WEST 0.1 MILE, TURN LEFT AND GO SOUTH 0.8 MILES, TURN RIGHT AND GO WEST 1.45 MILES TO ROAD SURVEY AND FOLLOW FLAGS SOUTH 620 FT. TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

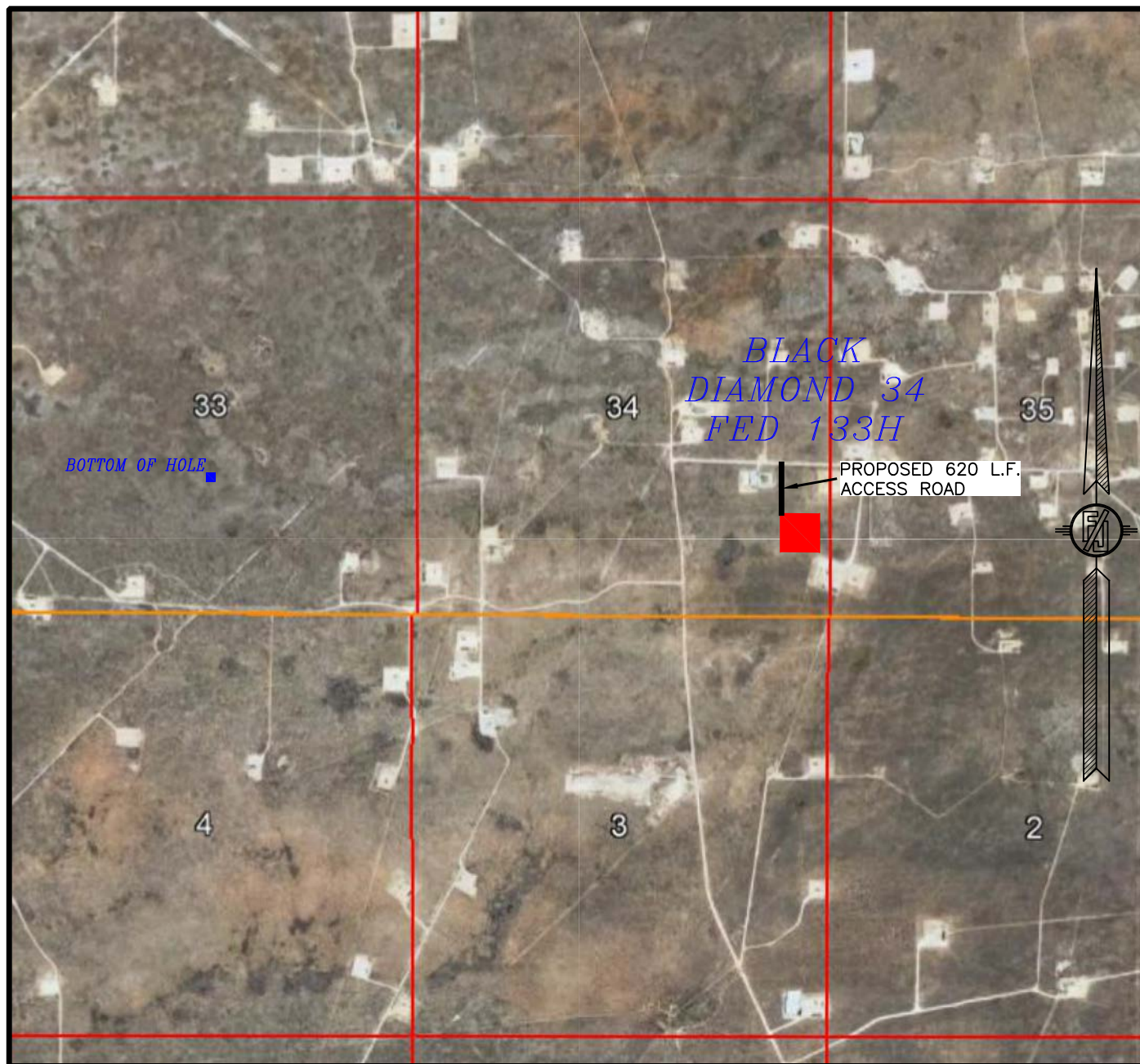
COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 133H
LOCATED 1135 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

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

SURVEY NO. 7734B
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MAR. 2016

COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 133H
LOCATED 1135 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

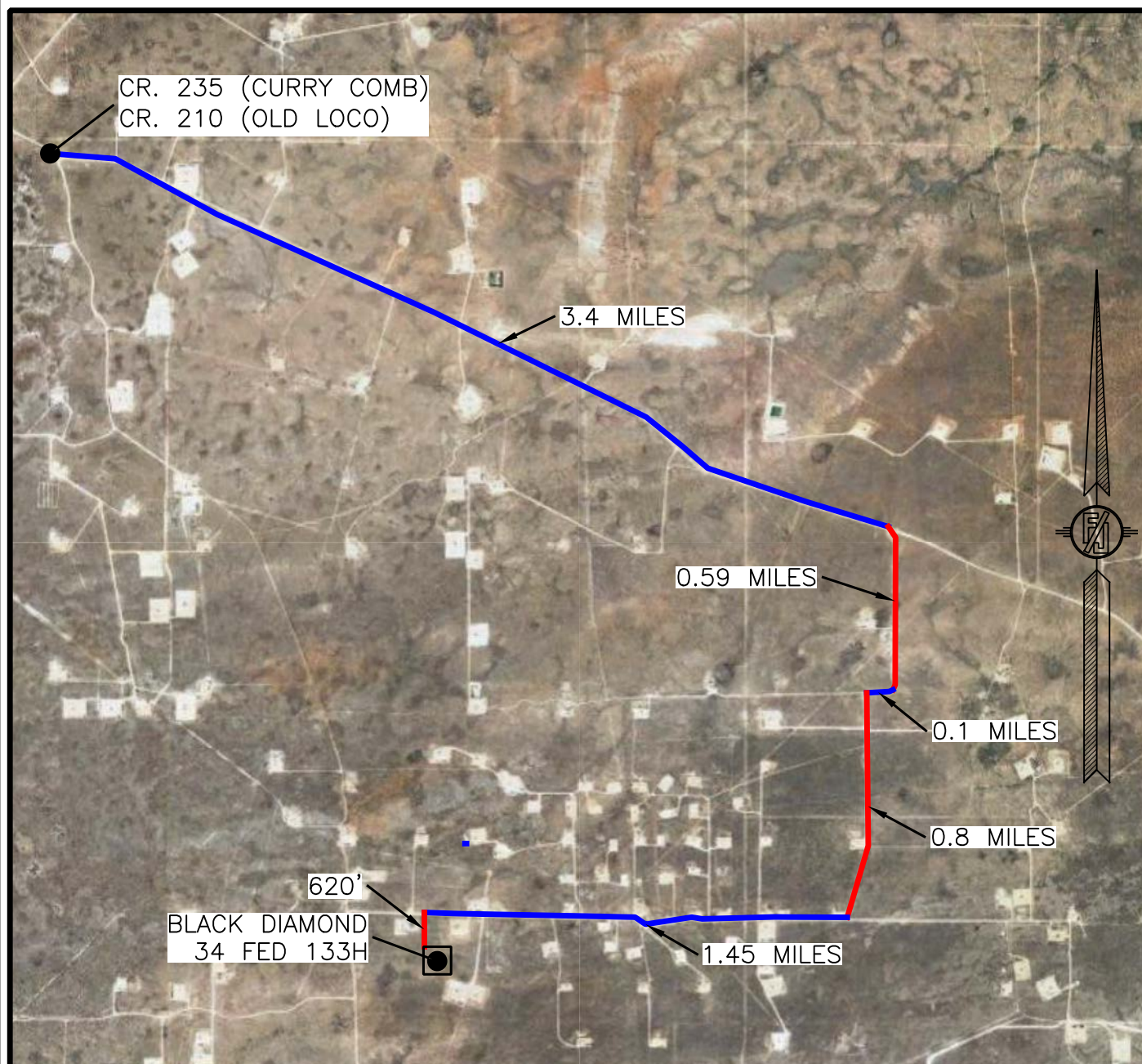
MAY 8, 2020

MADRON SURVEYING, INC.

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(575) 234-3341

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CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MAR. 2016

COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 133H
LOCATED 1135 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

SURVEY NO. 7734B

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

Site plan showing the proposed wellpad 2 for Black Diamond 34, the proposed pad center point, and the proposed silver bar wellpad 1. The site is bounded by a 3:1 slope (typ.) and a 500' limit of earthwork. An access road is shown on the right side. Elevation contours are marked from 3327 to 3333. Grid lines A-A', B-B', and C-C' are indicated.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR BLACK DIAMOND 34 FED 133H
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
3 CU. YD	8779 CU. YD	541 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

CUT	FILL	NET
8238 CU. YD	8779 CU. YD	541 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

FILMOM F. J. 10-97
JUN 10 1968

SURVEYING, INC.

MAY 8, 2020

CARLSBAD, NEW MEXICO

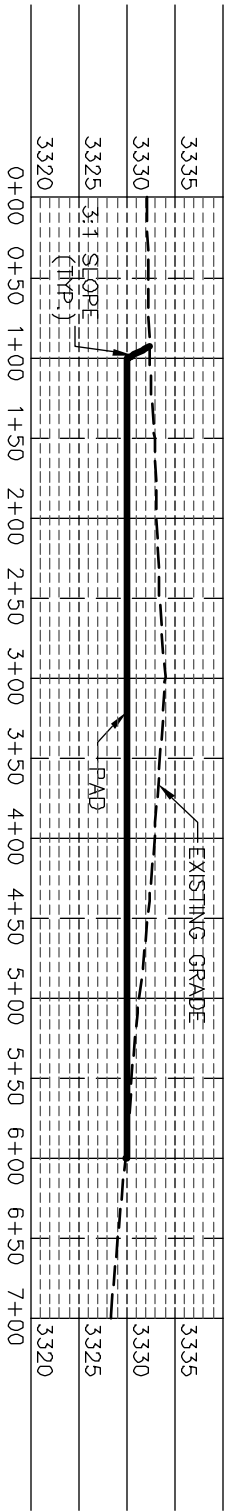
301 SOUTH CANAL
(978) 224-3341

SHEET 1-2
SURVEY NO. 7734B

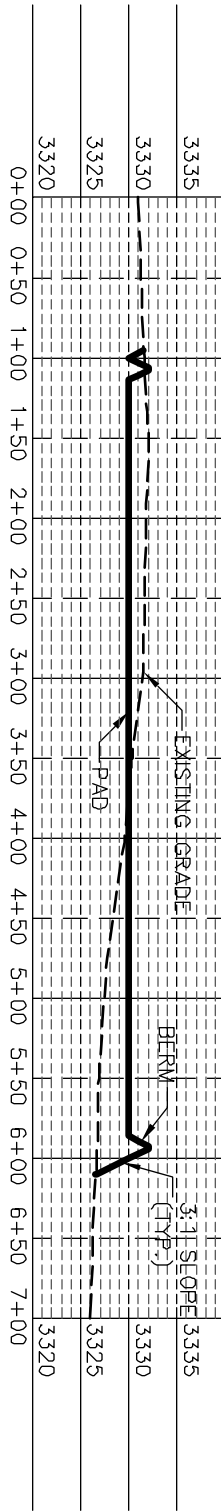
SHEET 1-2
SURVEY NO. 7734B

CROSS-SECTIONS

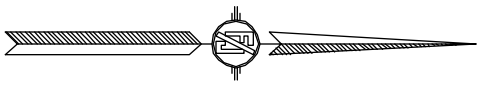
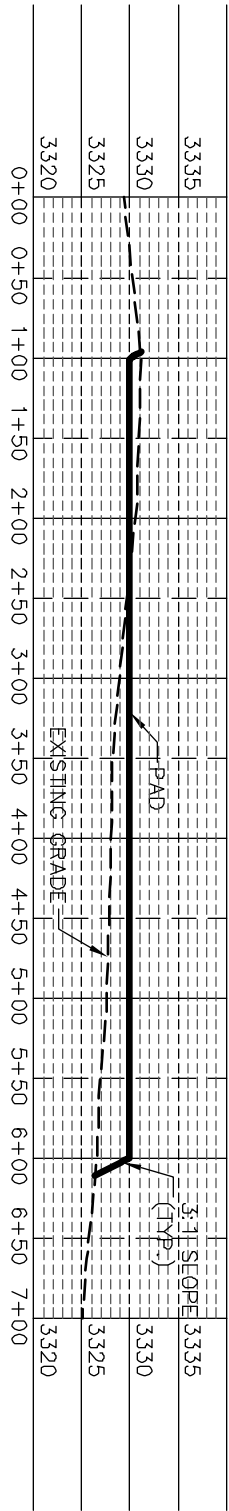
SECTION A-A'



SECTION B-B'

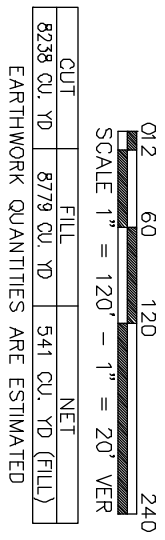


SECTION C-C'



I, FILMON F. JARANILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 10284, AM NOT RESPONSIBLE FOR THIS SURVEY, THE SURVEYING AND PLATTING OF THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
 PAD GRADING AND CROSS SECTIONS
 FOR BLACK DIAMOND 34 FED 133H
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

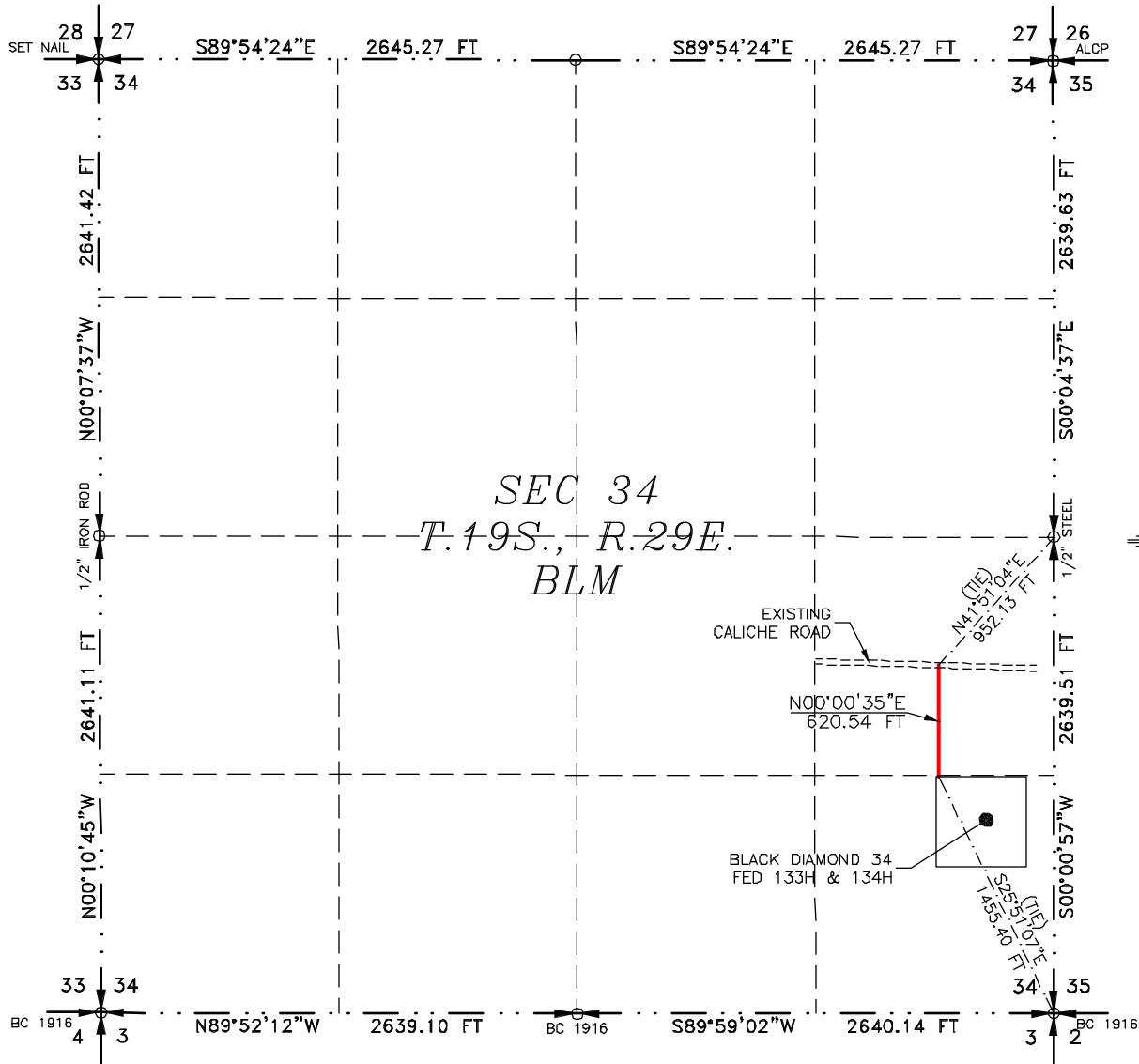


ACCESS ROAD PLAT

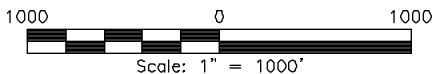
ACCESS ROAD FOR BLACK DIAMOND 34 FED 133H & 134H

COLGATE OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 8, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

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

SHEET: 1-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 8th DAY OF MAY 2020

FILMON F. JARAMILLO PLS
12797
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 7734B

ACCESS ROAD PLAT

ACCESS ROAD FOR BLACK DIAMOND 34 FED 133H & 134H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 8, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 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 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S25°51'07"E, A DISTANCE OF 1455.40 FEET;
THENCE N00°00'35"E A DISTANCE OF 620.54 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N41°51'04"E, A DISTANCE OF 952.13 FEET;

SAID STRIP OF LAND BEING 620.54 FEET OR 37.61 RODS IN LENGTH, CONTAINING 0.427 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4	10.73 L.F.	0.65 RODS	0.007 ACRES
NE/4 SE/4	609.81 L.F.	36.96 RODS	0.420 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.

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 21ST DAY OF MAY 2020

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

SHEET: 2-2

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

SURVEY NO. 7734B

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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


WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name BLACK DIAMOND 34 FED	⁶ Well Number 134H
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁹ Elevation 3330.1

¹⁰ Surface Location									
UL or lot no. P	Section 34	Township 19S	Range 29E	Lot Idn	Feet from the 1090	North/South line SOUTH	Feet from the 360	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. O	Section 33	Township 19S	Range 29E	Lot Idn	Feet from the 410	North/South line SOUTH	Feet from the 2626	East/West line EAST	County EDDY
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>			
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MAY 8, 2020</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: PAUL MON F. JARAMELLO-PMS 12797 SURVEY NO. 7884B</p>			

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

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
Latitude					Longitude				NAD

Last Take Point (LTP)

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

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

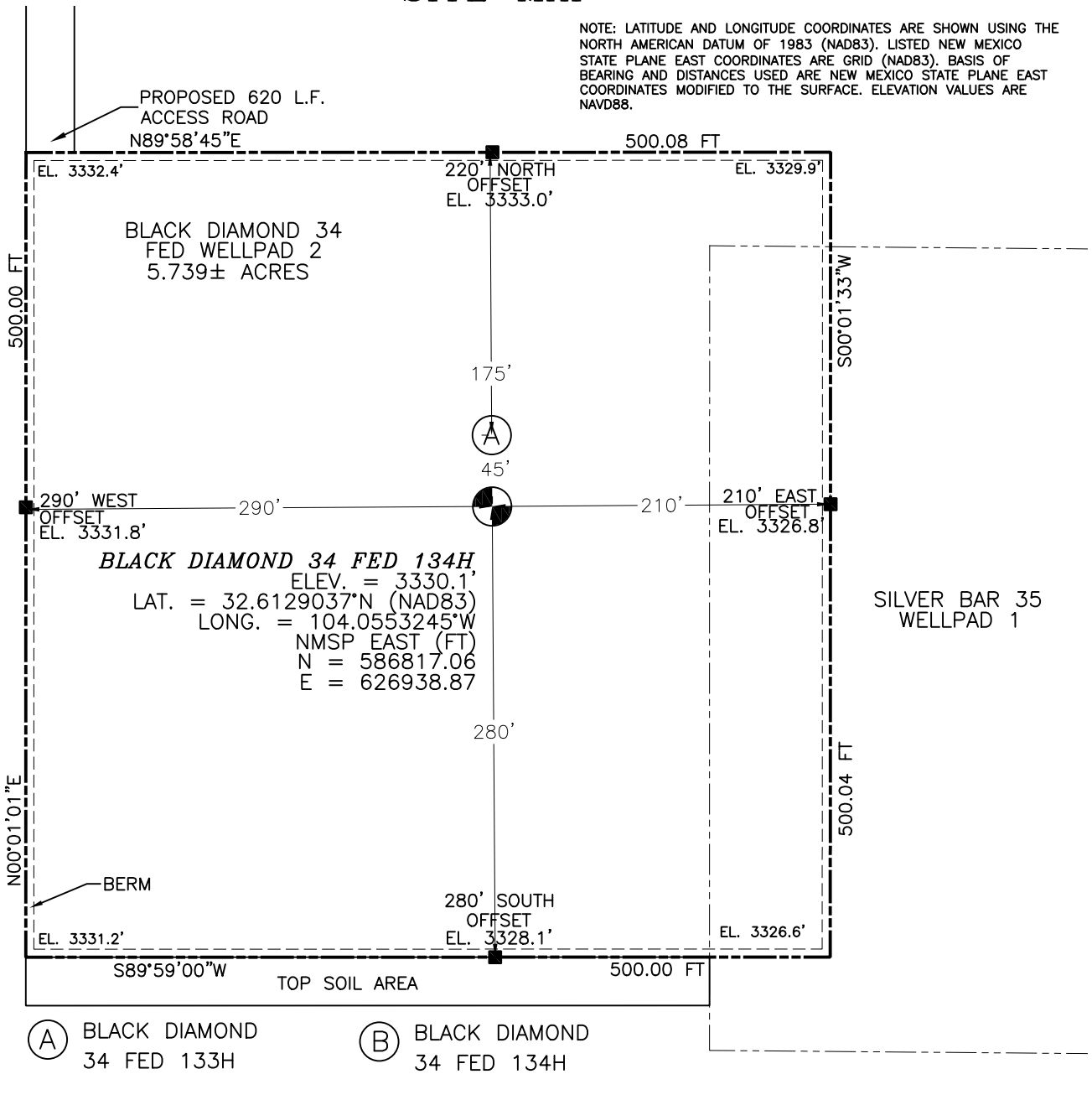
Is this well an infill well? ☐

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

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. 235 (CURRY COMB) AND CR. 210 (OLD LOCO) GO EAST-SOUTHEAST ON CR. 235 3.4 MILES, TURN RIGHT AND GO SOUTH 0.59 MILES, BEND RIGHT AND GO WEST 0.1 MILE, TURN LEFT AND GO SOUTH 0.8 MILES, TURN RIGHT AND GO WEST 1.45 MILES TO ROAD SURVEY AND FOLLOW FLAG SOUTH 620' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT I HAVE DIRECTED AND SUPERVISED THIS SURVEY, THAT THE INSTRUMENTS USED WERE OF SUFFICIENT ACCURACY, AND THAT THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE MINIMUM STANDARDS FOR SURVEYING PRACTICE IN THE STATE OF NEW MEXICO.

FILMON F. JARAMILLO, P.E. 7884B

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

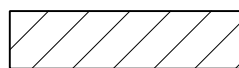
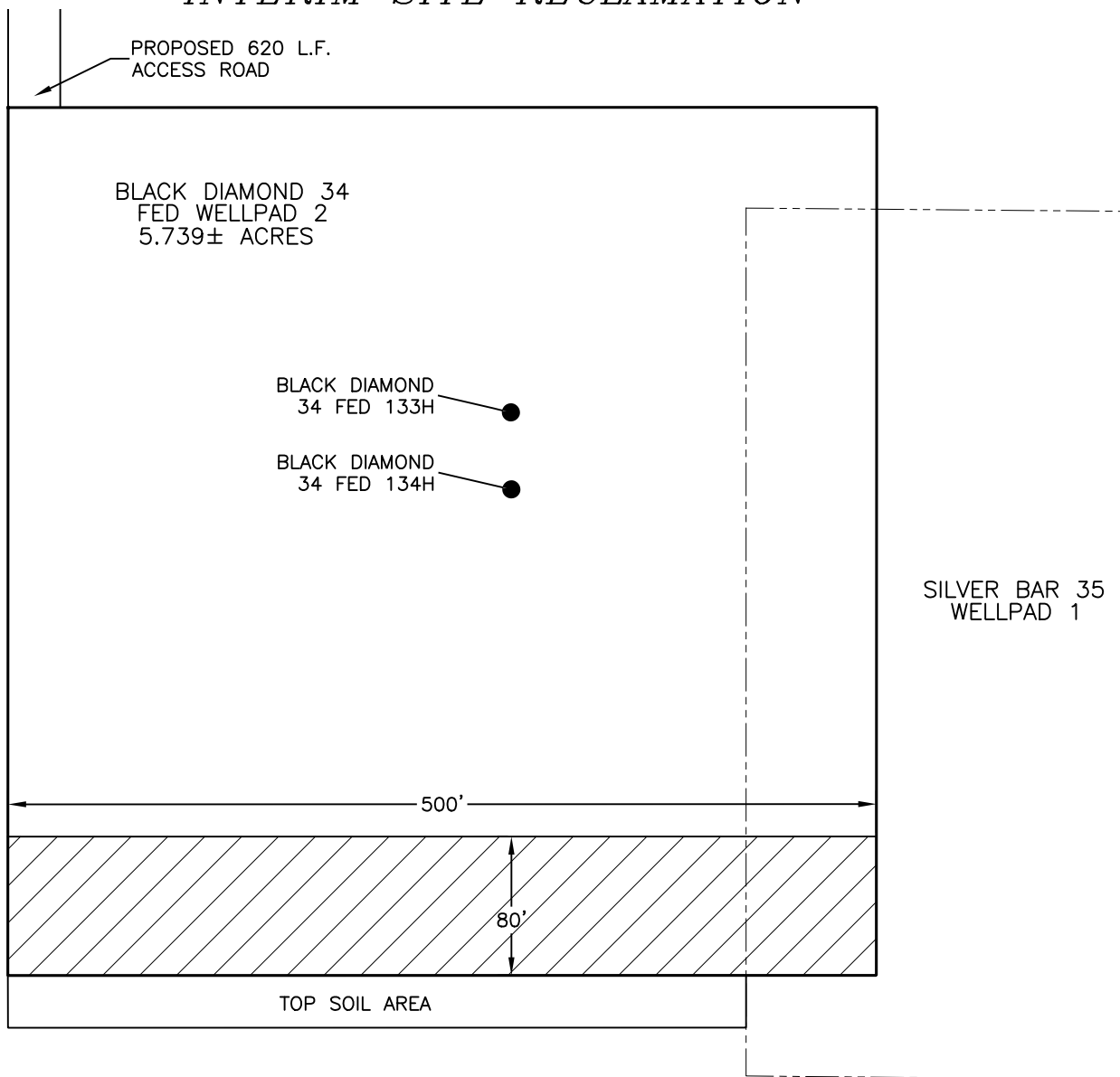
COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 134H
LOCATED 1090 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

SURVEY NO. 7884B

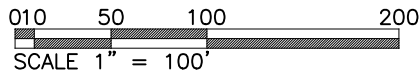
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE RECLAMATION



0.917± ACRES

DENOTES
RECLAMATION AREA
RECLAMATION AREA



COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 134H
LOCATED 1090 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

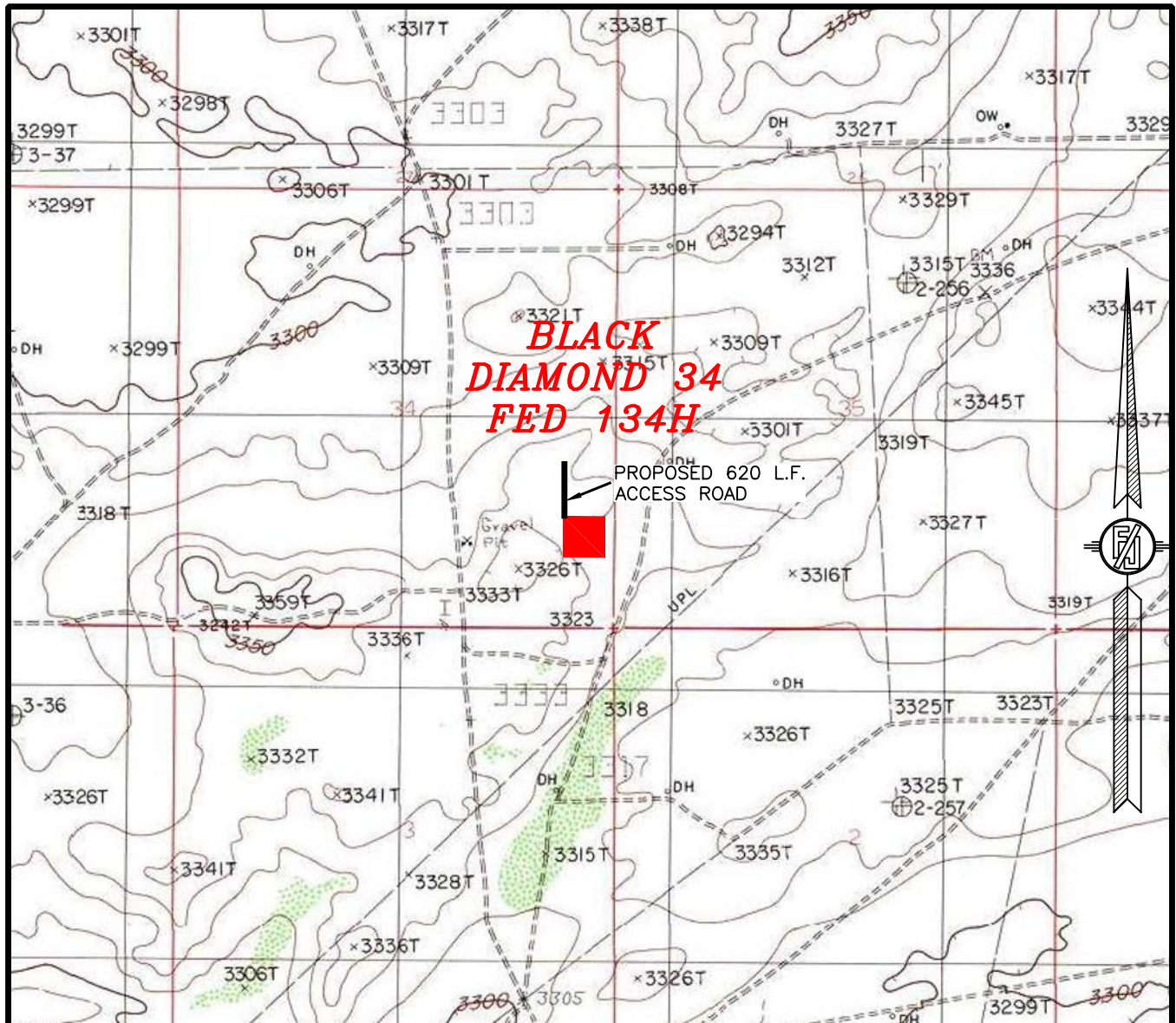
SURVEY NO. 7884B

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
ILLINOIS CAMP SE

NOT TO SCALE

COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 134H
LOCATED 1090 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

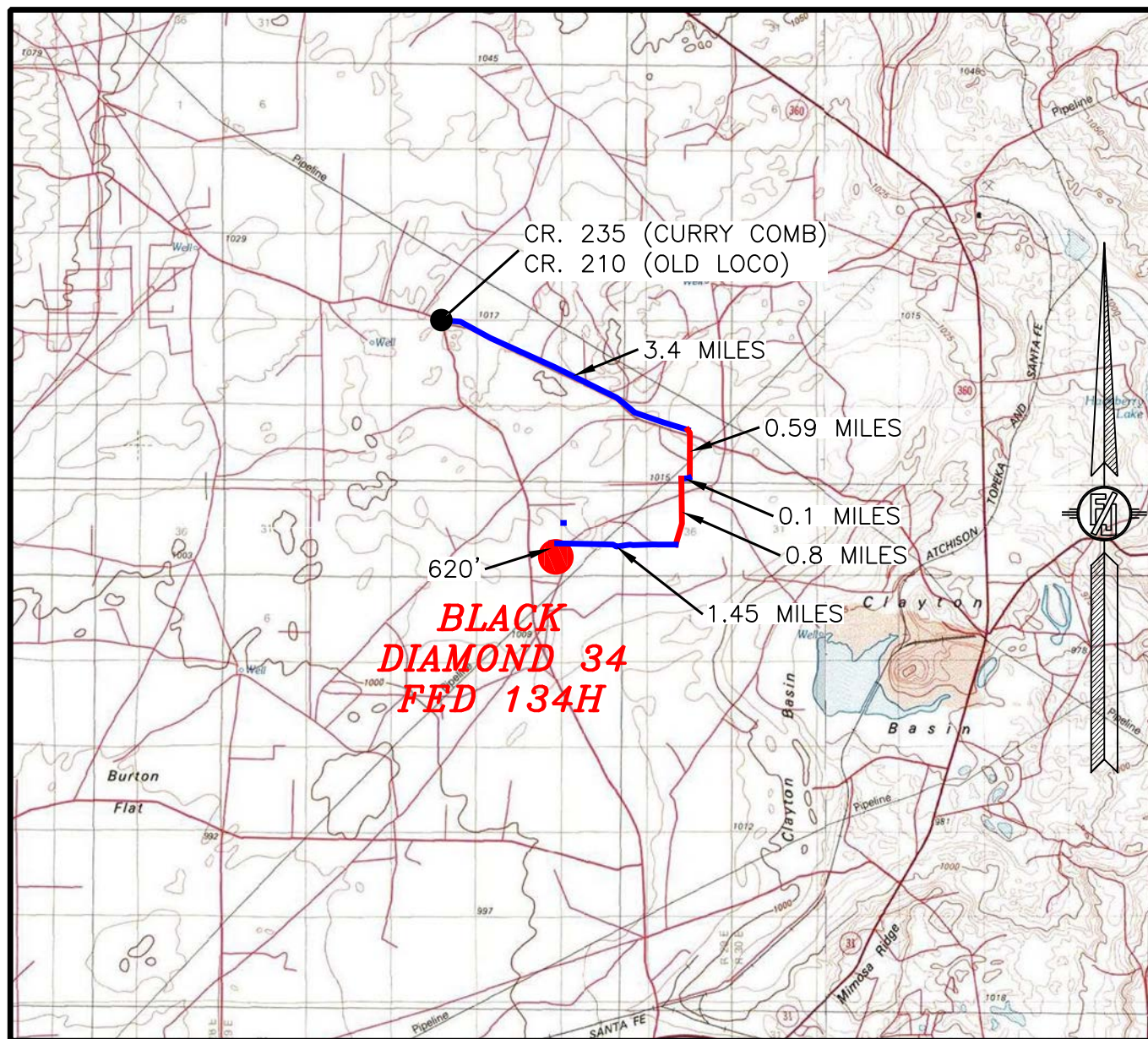
MAY 8, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7884B
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 235 (CURRY COMB) AND CR. 210 (OLD LOCO) GO EAST-SOUTHEAST ON CR. 235 3.4 MILES, TURN RIGHT AND GO SOUTH 0.59 MILES, BEND RIGHT AND GO WEST 0.1 MILE, TURN LEFT AND GO SOUTH 0.8 MILES, TURN RIGHT AND GO WEST 1.45 MILES TO ROAD SURVEY AND FOLLOW FLAGS SOUTH 620 FT. TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

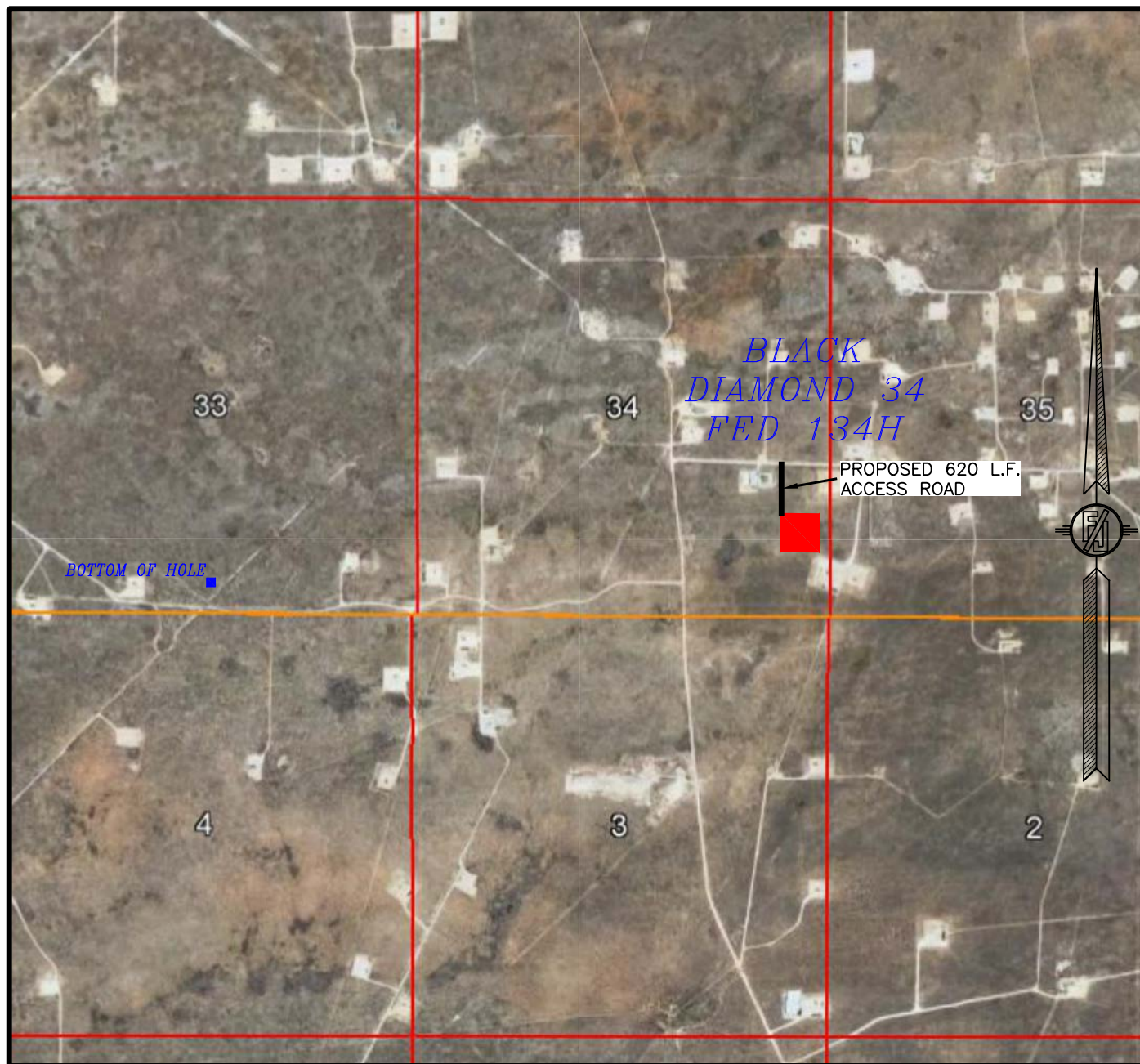
COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 134H
LOCATED 1090 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

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

SURVEY NO. 7884B
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MAR. 2016

COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 134H
LOCATED 1090 FT. FROM THE SOUTH LINE
AND 360 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 19 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

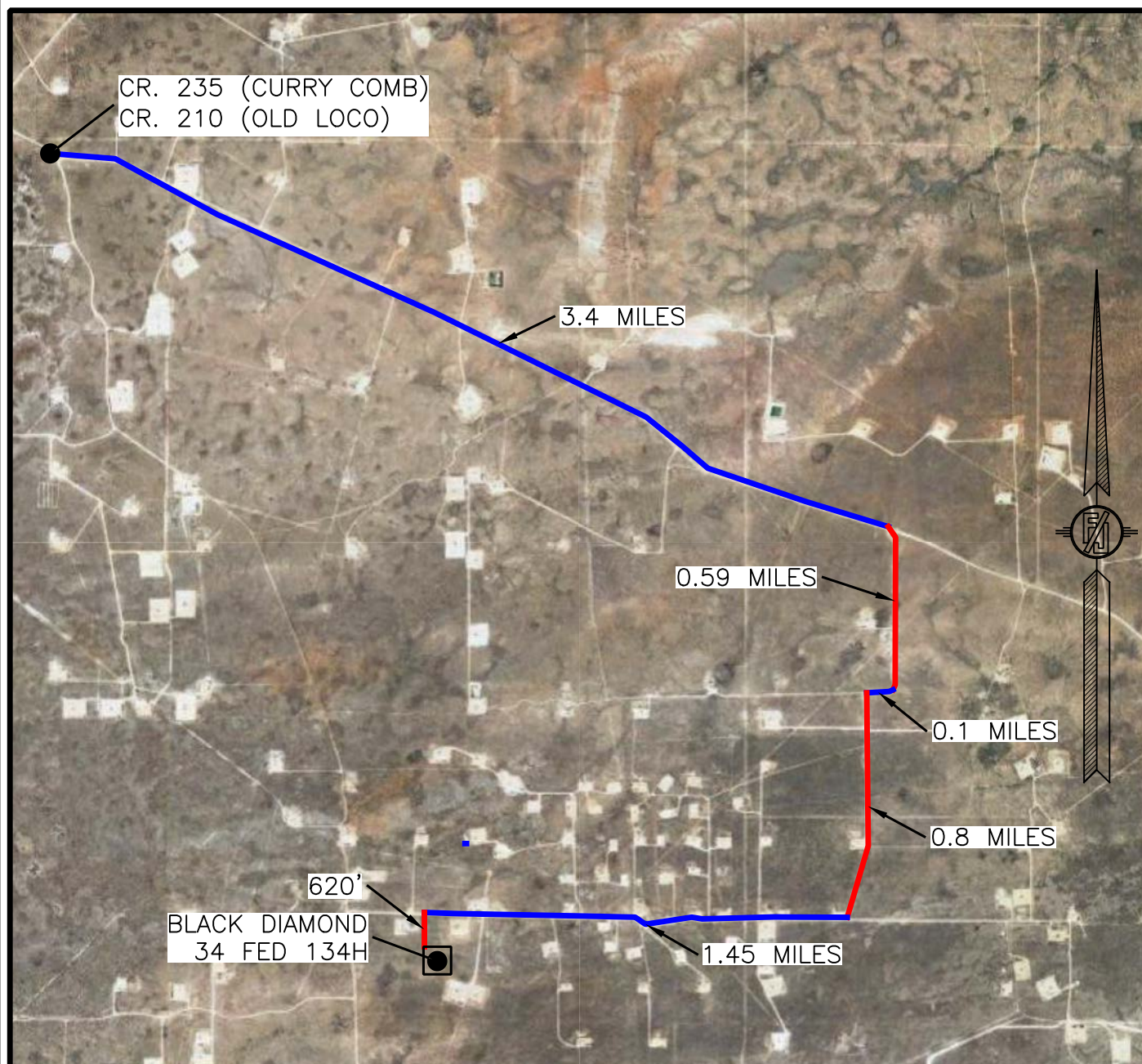
MAY 8, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7884B
CARLSBAD, NEW MEXICO

SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 MAR. 2016

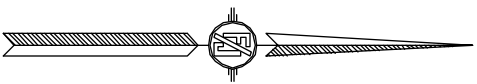
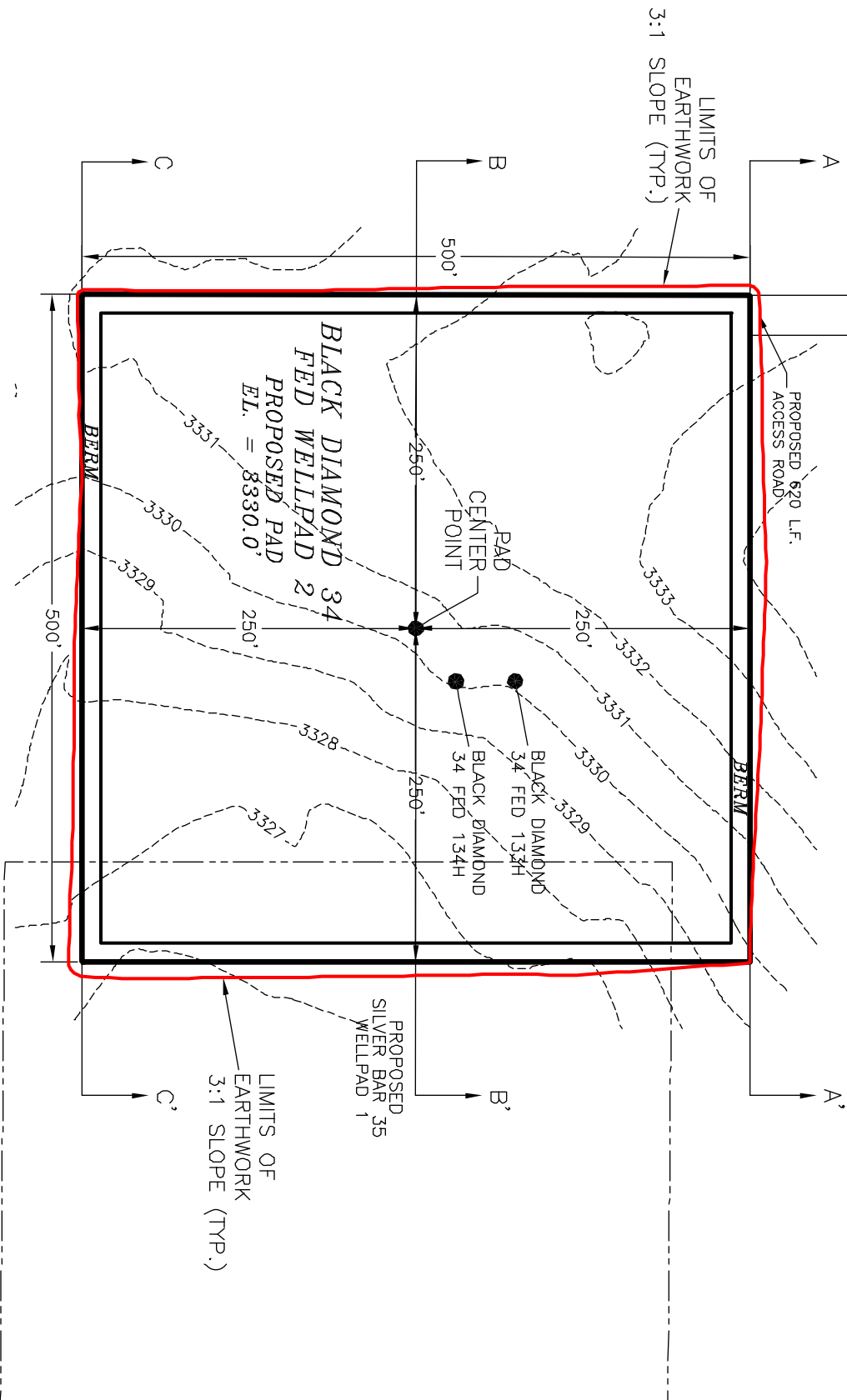
COLGATE OPERATING, LLC
BLACK DIAMOND 34 FED 134H
 LOCATED 1090 FT. FROM THE SOUTH LINE
 AND 360 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MAY 8, 2020

SURVEY NO. 7884B

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

PLAN VIEW

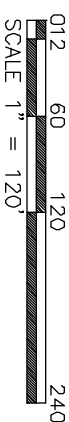


I, FILMON F. JARAMILA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THE FOREGOING IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
**PAD GRADING AND CROSS SECTIONS
 FOR BLACK DIAMOND 34 FED 134H**
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

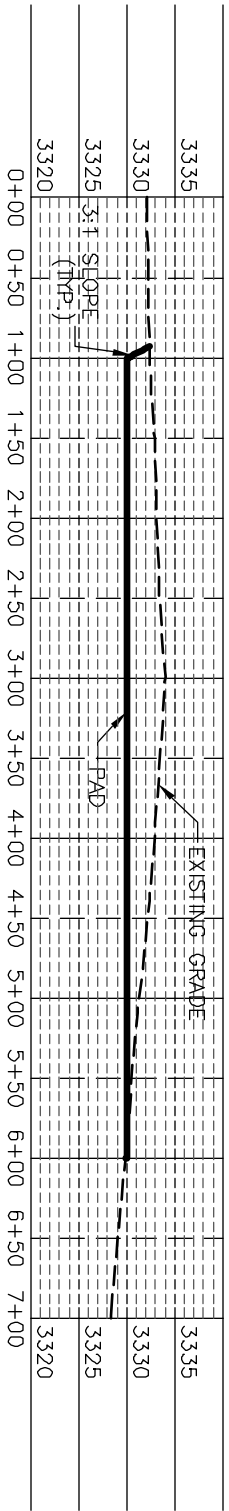
CUT	FILL	NET
8238 CU. YD	8779 CU. YD	541 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

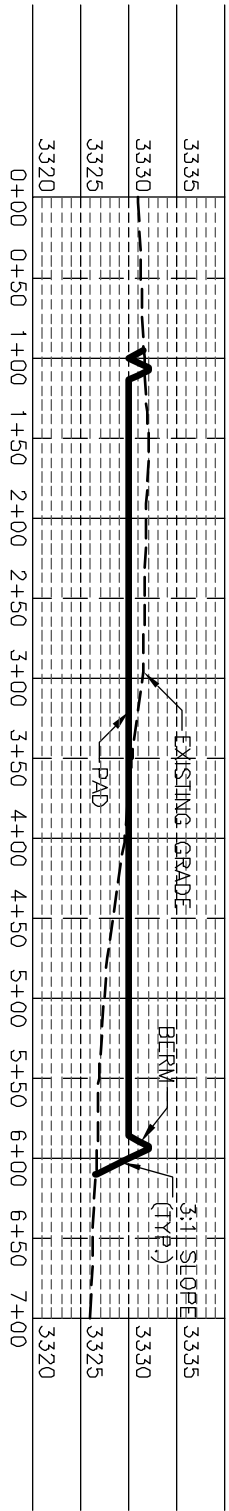


CROSS-SECTIONS

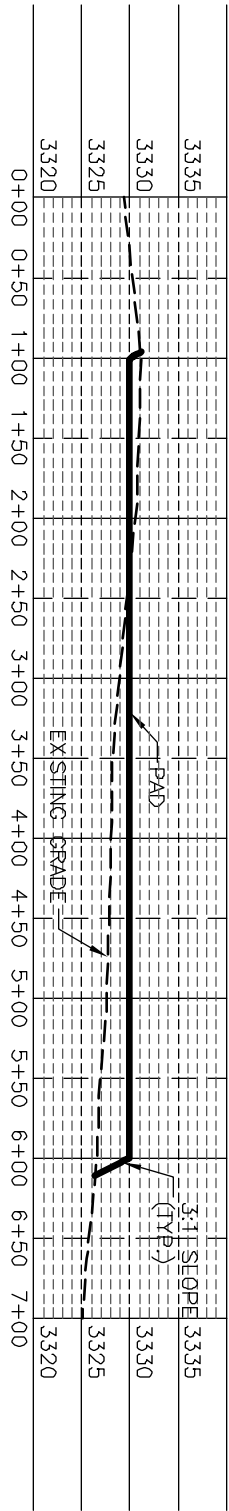
SECTION A-A'



SECTION B-B'



SECTION C-C'

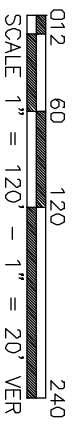


I, FILMON F. JARVIS, a New Mexico Registered Professional Surveyor, certify that I am the person responsible for this survey, that the survey was conducted in accordance with the laws and regulations of the State of New Mexico, and that the survey was completed on the date shown on this survey and plat. MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

COLGATE OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR BLACK DIAMOND 34 FED 134H
 SECTION 34, TOWNSHIP 19 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
8238 CU. YD	8779 CU. YD	541 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

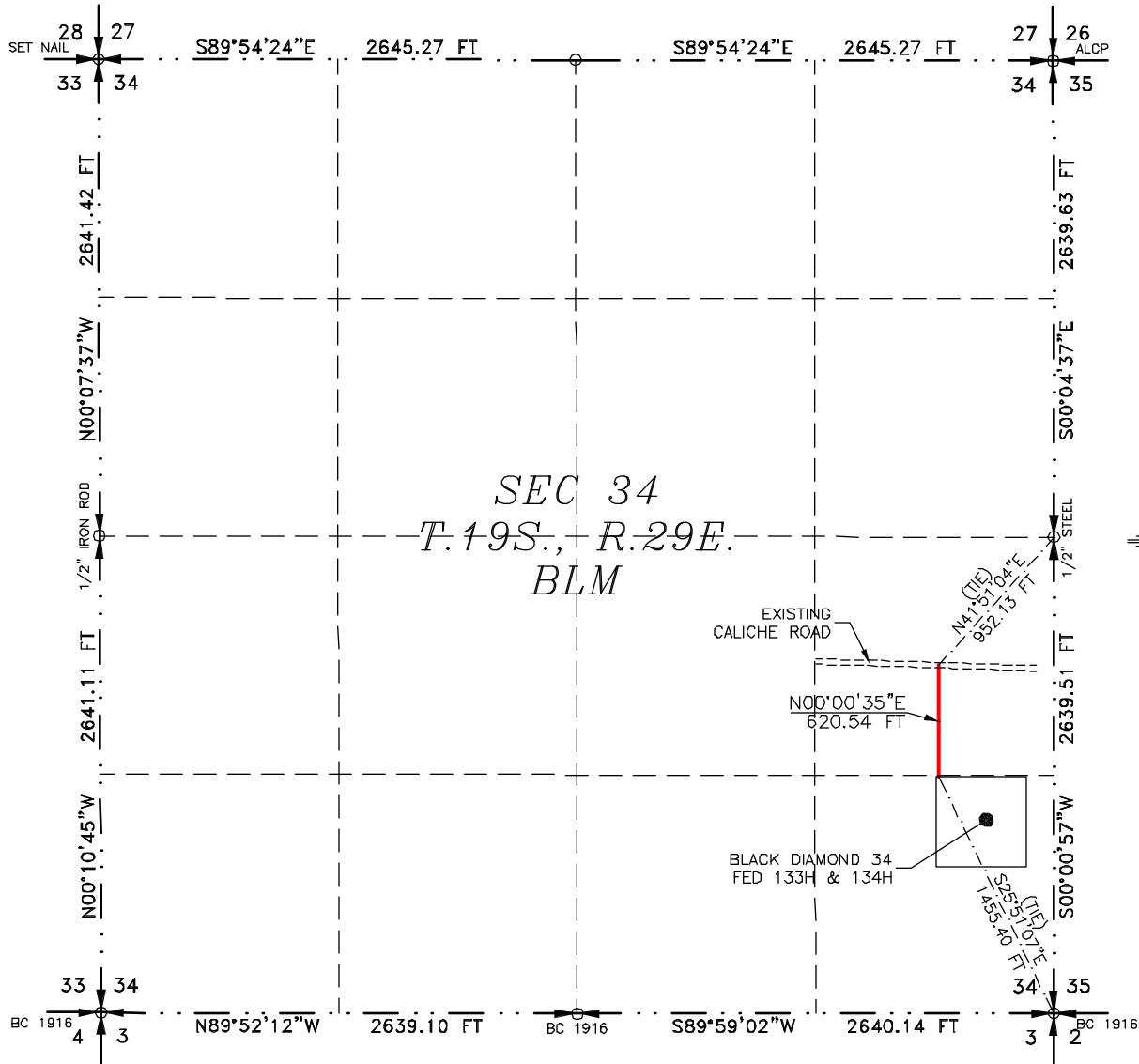


ACCESS ROAD PLAT

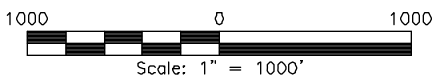
ACCESS ROAD FOR BLACK DIAMOND 34 FED 133H & 134H

COLGATE OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 8, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

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

SHEET: 1-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 8th DAY OF MAY 2020

FILMON F. JARAMILLO, PLS
12797
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 7884B

ACCESS ROAD PLAT

ACCESS ROAD FOR BLACK DIAMOND 34 FED 133H & 134H

COLGATE OPERATING, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
MAY 8, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 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 SE/4 OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S25°51'07"E, A DISTANCE OF 1455.40 FEET;
THENCE N00°00'35"E A DISTANCE OF 620.54 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS N41°51'04"E, A DISTANCE OF 952.13 FEET;

SAID STRIP OF LAND BEING 620.54 FEET OR 37.61 RODS IN LENGTH, CONTAINING 0.427 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4	10.73 L.F.	0.65 RODS	0.007 ACRES
NE/4 SE/4	609.81 L.F.	36.96 RODS	0.420 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.

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 12TH DAY OF MAY 2020

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

SHEET: 2-2

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

SURVEY NO. 7884B

Garcia, John A, EMNRD

From: Lance D. Hough <ldh@modrall.com>
Sent: Tuesday, May 12, 2020 8:11 PM
To: Garcia, John A, EMNRD
Cc: Earl E. DeBrine
Subject: [EXT] RE: Case 21187
Attachments: BLACK-DIAMOND-34-FED-133H (Revised) (W3750757x7A92D).PDF; BLACK-DIAMOND-34-FED-134H (Revised) (W3750756x7A92D).PDF; 21187 - Black Diamond 34 Fed Com 133H - Exhibit A Checklist (Revised) (W3750760x7A92D).PDF

John,

Attached are the updated C-102s for the 133H (Case 21187) and 134H (Case 21188) wells. The Last Take Points have been updated to 2,536' FEL and 2,537' FEL, being 104' and 103' from the unit boundary and in compliance with the applicable setback requirements. I have also attached an updated Checklist for Case 21187 since the updated C-102 for the 133H well reflects minor changes in the BHL footages.

Thank you for your patience and please let me know if you need anything else.

Sincerely,



Lance D. Hough
Associate Attorney
D: 505.848.1826

From: Garcia, John A, EMNRD <JohnA.Garcia@state.nm.us>
Sent: Wednesday, May 6, 2020 10:37 AM
To: Lance D. Hough <ldh@modrall.com>
Subject: RE: Case 21187

Thank you for the update Lance.

Thank you,

John Garcia
Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3441



From: Lance D. Hough <ldh@modrall.com>
Sent: Wednesday, May 6, 2020 10:32 AM
To: Garcia, John A, EMNRD <JohnA.Garcia@state.nm.us>
Subject: [EXT] RE: Case 21187

John,

Just following up, I am hoping to get the updated C102s (and Exhibit As) to you by the end of this week. Thanks again for your patience.

Sincerely,



Lance D. Hough
Associate Attorney
D: 505.848.1826

From: Lance D. Hough
Sent: Friday, May 1, 2020 4:18 PM
To: 'Garcia, John A, EMNRD' <JohnA.Garcia@state.nm.us>
Subject: RE: Case 21187

John,

I just heard back that the C102s will need to be corrected to reflect that the LTPs comply with the 100' setback requirement. It may take a couple days to get corrected C102s but I'll get them to you ASAP. I'll make sure to check on all the C102s for all four of these Black Diamond cases as well. Thanks again.

Sincerely,



Lance D. Hough
Associate Attorney
D: 505.848.1826

From: Garcia, John A, EMNRD <JohnA.Garcia@state.nm.us>
Sent: Friday, May 1, 2020 4:02 PM

To: Lance D. Hough <ldh@modrall.com>

Subject: RE: Case 21187

I understand, thank you very much for the update.

Thank you,

John Garcia

Petroleum Specialist

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3441



From: Lance D. Hough <ldh@modrall.com>

Sent: Friday, May 1, 2020 4:00 PM

To: Garcia, John A, EMNRD <JohnA.Garcia@state.nm.us>

Subject: [EXT] RE: Case 21187

John,

Thank you for bringing this to my attention, I apologize for the oversight. I know the plan was for these to comply with the setback requirements and then we received the C102's last minute. I've followed up with my client and am waiting to hear back as to whether these C102's are correct, which would then of course warrant approval for NSL's due to these BHLs not meeting the setback requirements. Since it is already 5pm where my client is located, I do not anticipate that I'll have an answer until Monday. If that is okay, I'll work with them to get an answer to you ASAP so that we can resolve this discrepancy.

Sincerely,



Lance D. Hough

Associate Attorney

D: 505.848.1826

From: Garcia, John A, EMNRD <JohnA.Garcia@state.nm.us>

Sent: Friday, May 1, 2020 3:49 PM

To: Lance D. Hough <ldh@modrall.com>

Subject: RE: Case 21187

Lance,

Thanks for the quick reply, as far as case 21187 and 21188 in the affidavit it is stated that these wells will comply with the State setbacks, and in the example letter to the interest owners the SHL and BHL reflect this. However the C-102 for the 133H and 134H reflect an need for an NSL as these footages are different. Which ones are correct? Does the applicant plan on seeking a NSL?

Thank you,

John Garcia

Petroleum Specialist

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3441



From: Lance D. Hough <ldh@modrall.com>

Sent: Friday, May 1, 2020 3:43 PM

To: Garcia, John A, EMNRD <JohnA.Garcia@state.nm.us>

Cc: Earl E. DeBrine <edebrine@modrall.com>

Subject: [EXT] RE: Case 21187

John,

Attached is the C-102 for the 133H well in case No. 21187. Please let me know if you need anything else. Thank you.

Sincerely,



Lance D. Hough

Associate Attorney

D: 505.848.1826

From: Garcia, John A, EMNRD <JohnA.Garcia@state.nm.us>

Sent: Friday, May 1, 2020 3:38 PM

To: Earl E. DeBrine <edebrine@modrall.com>

Cc: Lance D. Hough <ldh@modrall.com>

Subject: Case 21187

EXTERNAL EMAIL: Please do not click any links or open any attachments unless you trust the sender and are expecting this message and know the content is safe.

All,

I am currently reviewing case 21187, I was unable to locate a C-102 for well 133H in the exhibits. It appears that the C-102H from another case may have been submitted in its place. Please send me a C-102 for this case and I can continue to review.

Thank you,

John Garcia

Petroleum Specialist

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3441



This e-mail may be a confidential attorney-client communication. If you received it in error, please delete it without forwarding it to others and notify the sender of the error.