

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Colgate Operating, LLC 300 North Marienfeld Street, Suite 1000 Midland, Tx 79701		² OGRID Number 167327
		³ Reason for Filing Code/ Effective Date RT
⁴ API Number 30 - 015-47603	⁵ Pool Name OLD MILLMAN RANCH; BS (ASSOC)	⁶ Pool Code 48035
⁷ Property Code 329759	⁸ Property Name DAWSON 34 FEDERAL COM	⁹ Well Number 134H

II. ¹⁰ Surface Location

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

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	19S	28E		430	South	10	West	Eddy
¹² Lse Code F	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
329097	LM Touchdown, LLC	O/G

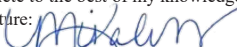
IV. Well Completion Data

²¹ Spud Date 11/19/2020	²² Ready Date 02/15/2021	²³ TD 18,890	²⁴ PBTB 18,785	²⁵ Perforations	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	338	390		
12.25	9.625	2908	865		
8.75	5.5	18882	2940		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 

Printed name:
Mikah Thomas

Title:
Operations Tech

E-mail Address:
mthomas@colgateenergy.com

Date:
01.11.2020

Phone:
432-695-4272

OIL CONSERVATION DIVISION

Approved by: Kurt Simmons

Title: NMOC

Approval Date: 02/15/2021

C-104 RT EXPIRES: 05/15/2021

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 30-015-47604		2 Pool Code 48035	3 Pool Name Old Millman Ranch; Bone Spring
4 Property Code 329759	5 Property Name DAWSON 34 FED COM		6 Well Number 134H
7 OGRID No. 371449	8 Operator Name COLGATE ENERGY		9 Elevation 3299.9'

¹⁰ Surface Location

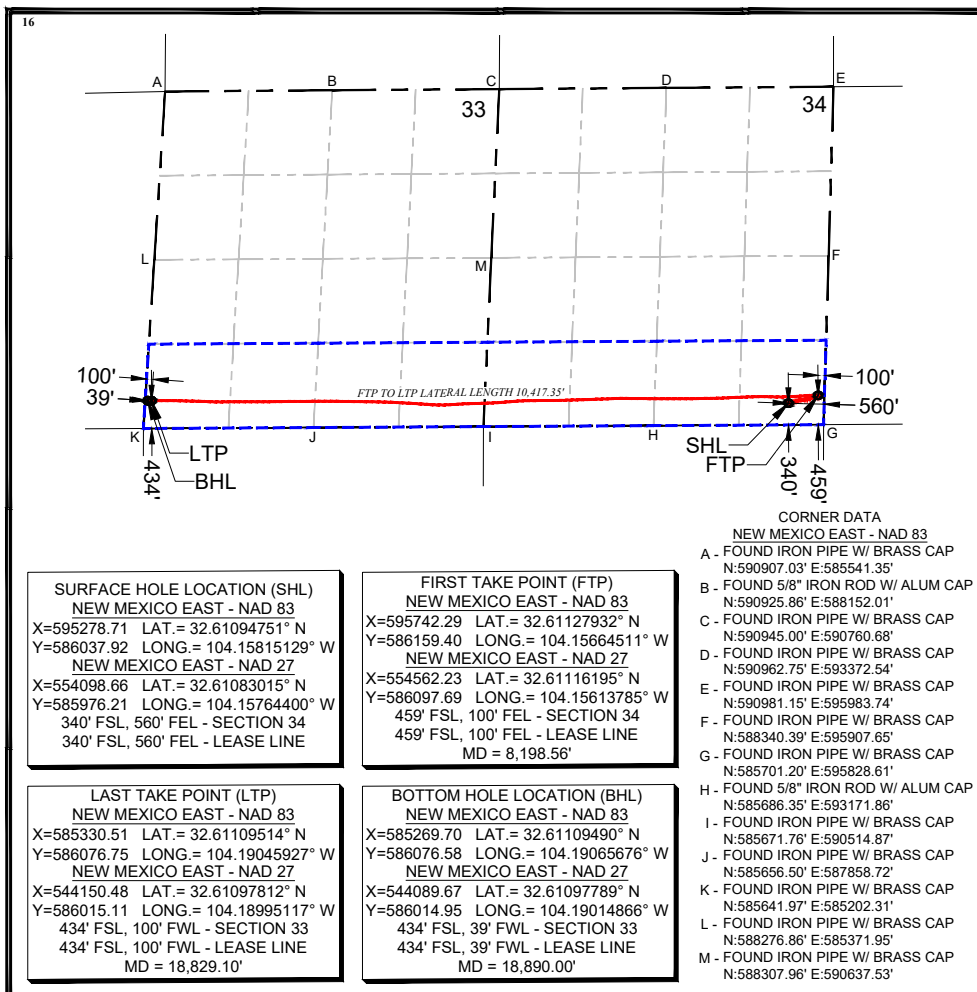
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	34	19-S	28-E		340'	SOUTH	560'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	19-S	28-E		434'	SOUTH	39'	WEST	EDDY

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

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 **01.28.21**

Mikah Thomas
Printed Name

mthomas@colgateenergy.com
E-mail Address

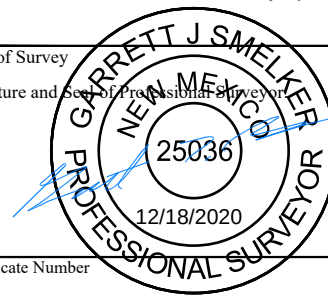
¹⁸ SURVEYOR CERTIFICATION

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.

Date of Survey _____

Signature and Seal of Professional Surveyor

Certificate Number





Colgate Energy

Eddy County, NM (N83-NME)

Dawson 34 Fed State Com

Dawson 34 Fed State Com 134H

30-015-47604

134H

Survey: Survey #12 - FDIR thru TD

Standard Survey Report

13 December, 2020



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Dawson 34 Fed State Com 134H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3300+30 @ 3330.00usft (KB=30)
Site:	Dawson 34 Fed State Com	MD Reference:	3300+30 @ 3330.00usft (KB=30)
Well:	Dawson 34 Fed State Com 134H	North Reference:	Grid
Wellbore:	134H	Survey Calculation Method:	Minimum Curvature
Design:	DRL	Database:	EDM 5000.14 Single User Db

Project	Eddy County, NM (N83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Dawson 34 Fed State Com			
Site Position:		Northing:	586,037.92 usft	Latitude:	32.61094751
From:	Map	Easting:	595,278.71 usft	Longitude:	-104.15815129
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.09 °

Well	Dawson 34 Fed State Com 134H					
Well Position	+N/-S	0.00 usft	Northing:	586,037.92 usft	Latitude:	32.61094751
	+E/-W	0.00 usft	Easting:	595,278.71 usft	Longitude:	-104.15815129
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,300.00 usft

Wellbore	134H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	11/18/2020	7.20	60.35	47,840.40000000

Design	DRL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		269.68

Survey Program	Date	12/13/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.00	270.00	Survey #01 - Gordon MWD (134H)	OWSG MWD Rev 4	OWSG MWD - Standard	
429.00	18,835.00	Survey #12 - FDIR thru TD (134H)	MWD+IFR1+SAG+FDIR (SQ OWSG MWD + IFR1 + Sag + FDIR Correction		
18,890.00	18,890.00	Survey #13 - PTB (134H)	BLIND	BLIND	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
429.00	0.44	357.33	428.99	1.44	0.75	-0.76	0.00	0.00	0.00	
523.00	0.60	283.21	522.99	1.91	0.25	-0.26	0.68	0.17	-78.85	
639.00	0.21	253.17	638.98	1.99	-0.54	0.53	0.37	-0.34	-25.90	
733.00	0.41	125.21	732.98	1.75	-0.43	0.42	0.60	0.21	-136.13	
828.00	0.22	92.86	827.98	1.54	0.03	-0.04	0.27	-0.20	-34.05	
923.00	1.63	91.52	922.97	1.50	1.56	-1.57	1.48	1.48	-1.41	
1,017.00	4.43	83.49	1,016.83	1.87	6.51	-6.52	3.01	2.98	-8.54	
1,112.00	5.67	79.75	1,111.46	3.12	14.77	-14.79	1.35	1.31	-3.94	
1,206.00	6.15	79.28	1,204.96	4.89	24.29	-24.31	0.51	0.51	-0.50	



Survey Report

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Site:	Dawson 34 Fed State Com	MD Reference:	3300+30 @ 3330.00usft (KB=30)
Well:	Dawson 34 Fed State Com 134H	North Reference:	Grid
Wellbore:	134H	Survey Calculation Method:	Minimum Curvature
Design:	DRL	Database:	EDM 5000.14 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,301.00	7.02	79.35	1,299.33	6.91	34.99	-35.03	0.92	0.92	0.07	
1,395.00	6.83	76.06	1,392.64	9.31	46.06	-46.11	0.47	-0.20	-3.50	
1,490.00	6.85	75.22	1,486.97	12.12	57.02	-57.09	0.11	0.02	-0.88	
1,585.00	7.01	74.82	1,581.27	15.08	68.10	-68.18	0.18	0.17	-0.42	
1,679.00	7.08	73.94	1,674.56	18.19	79.20	-79.30	0.14	0.07	-0.94	
1,774.00	7.01	72.79	1,768.85	21.52	90.36	-90.48	0.17	-0.07	-1.21	
1,869.00	7.07	70.74	1,863.13	25.17	101.42	-101.56	0.27	0.06	-2.16	
1,964.00	7.10	70.21	1,957.40	29.08	112.46	-112.62	0.08	0.03	-0.56	
2,058.00	7.10	69.13	2,050.68	33.12	123.36	-123.54	0.14	0.00	-1.15	
2,153.00	7.16	69.34	2,144.95	37.30	134.38	-134.59	0.07	0.06	0.22	
2,247.00	7.22	77.34	2,238.21	40.66	145.63	-145.85	1.07	0.06	8.51	
2,342.00	7.59	82.99	2,332.42	42.74	157.68	-157.91	0.86	0.39	5.95	
2,437.00	7.69	83.17	2,426.58	44.26	170.22	-170.46	0.11	0.11	0.19	
2,531.00	7.74	84.07	2,519.73	45.66	182.76	-183.01	0.14	0.05	0.96	
2,626.00	7.91	84.28	2,613.84	46.97	195.62	-195.88	0.18	0.18	0.22	
2,721.00	8.05	84.26	2,707.92	48.29	208.75	-209.01	0.15	0.15	-0.02	
2,834.00	8.19	83.89	2,819.79	49.94	224.62	-224.90	0.13	0.12	-0.33	
2,975.00	8.65	84.82	2,959.27	51.96	245.17	-245.46	0.34	0.33	0.66	
3,070.00	7.44	81.22	3,053.33	53.55	258.36	-258.66	1.38	-1.27	-3.79	
3,164.00	6.30	74.71	3,146.66	55.84	269.35	-269.66	1.47	-1.21	-6.93	
3,259.00	5.96	72.02	3,241.12	58.73	279.07	-279.40	0.47	-0.36	-2.83	
3,354.00	5.65	68.72	3,335.63	61.95	288.12	-288.46	0.48	-0.33	-3.47	
3,448.00	5.42	75.33	3,429.19	64.76	296.73	-297.08	0.72	-0.24	7.03	
3,543.00	5.42	77.01	3,523.77	66.90	305.44	-305.81	0.17	0.00	1.77	
3,637.00	4.66	70.80	3,617.40	69.15	313.37	-313.75	0.99	-0.81	-6.61	
3,732.00	4.50	62.58	3,712.10	72.14	320.32	-320.72	0.71	-0.17	-8.65	
3,826.00	5.64	63.83	3,805.73	75.88	327.74	-328.16	1.22	1.21	1.33	
3,921.00	5.83	64.77	3,900.26	79.99	336.30	-336.74	0.22	0.20	0.99	
4,015.00	7.51	76.53	3,993.62	83.46	346.59	-347.05	2.29	1.79	12.51	
4,109.00	7.44	73.17	4,086.82	86.65	358.39	-358.87	0.47	-0.07	-3.57	
4,204.00	7.13	71.44	4,181.06	90.31	369.87	-370.37	0.40	-0.33	-1.82	
4,298.00	7.65	89.13	4,274.29	92.26	381.65	-382.16	2.47	0.55	18.82	
4,393.00	7.48	87.05	4,368.46	92.67	394.15	-394.66	0.34	-0.18	-2.19	
4,488.00	6.78	83.92	4,462.72	93.59	405.90	-406.42	0.84	-0.74	-3.29	
4,582.00	6.59	82.17	4,556.09	94.91	416.77	-417.29	0.30	-0.20	-1.86	
4,676.00	6.30	78.79	4,649.49	96.65	427.17	-427.70	0.51	-0.31	-3.60	
4,771.00	5.97	74.78	4,743.95	98.96	437.05	-437.59	0.57	-0.35	-4.22	
4,866.00	5.97	89.67	4,838.44	100.28	446.76	-447.31	1.63	0.00	15.67	
4,960.00	6.11	95.37	4,931.92	99.84	456.63	-457.18	0.65	0.15	6.06	
5,055.00	5.76	94.08	5,026.41	99.03	466.41	-466.96	0.39	-0.37	-1.36	
5,149.00	5.68	88.69	5,119.94	98.80	475.77	-476.31	0.58	-0.09	-5.73	
5,244.00	5.05	81.68	5,214.53	99.51	484.61	-485.16	0.96	-0.66	-7.38	
5,339.00	4.83	75.31	5,309.17	101.13	492.61	-493.17	0.62	-0.23	-6.71	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Dawson 34 Fed State Com 134H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3300+30 @ 3330.00usft (KB=30)
Site:	Dawson 34 Fed State Com	MD Reference:	3300+30 @ 3330.00usft (KB=30)
Well:	Dawson 34 Fed State Com 134H	North Reference:	Grid
Wellbore:	134H	Survey Calculation Method:	Minimum Curvature
Design:	DRL	Database:	EDM 5000.14 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,433.00	4.55	68.58	5,402.86	103.50	499.91	-500.48	0.66	-0.30	-7.16	
5,528.00	2.71	81.47	5,497.67	105.21	505.64	-506.22	2.11	-1.94	13.57	
5,623.00	2.71	80.93	5,592.56	105.89	510.08	-510.66	0.03	0.00	-0.57	
5,717.00	1.01	84.11	5,686.51	106.33	513.10	-513.68	1.81	-1.81	3.38	
5,812.00	0.75	296.17	5,781.50	106.69	513.37	-513.96	1.78	-0.27	-155.73	
5,907.00	1.26	299.97	5,876.49	107.49	511.91	-512.50	0.54	0.54	4.00	
6,001.00	1.96	294.04	5,970.45	108.66	509.55	-510.15	0.76	0.74	-6.31	
6,030.20	2.04	292.78	5,999.63	109.06	508.61	-509.21	0.31	0.27	-4.32	
00-EON(D34 134H)										
6,096.00	2.22	290.27	6,065.39	109.96	506.34	-506.94	0.31	0.28	-3.81	
6,190.00	2.34	284.35	6,159.31	111.06	502.77	-503.38	0.28	0.13	-6.30	
6,285.00	1.69	288.71	6,254.25	111.99	499.57	-500.18	0.70	-0.68	4.59	
6,379.00	1.15	293.41	6,348.22	112.81	497.39	-498.01	0.59	-0.57	5.00	
6,474.00	0.87	331.04	6,443.21	113.82	496.16	-496.79	0.74	-0.29	39.61	
6,568.00	0.80	4.89	6,537.20	115.10	495.87	-496.51	0.52	-0.07	36.01	
6,663.00	0.82	359.55	6,632.19	116.44	495.92	-496.57	0.08	0.02	-5.62	
6,757.00	1.11	317.70	6,726.18	117.79	495.31	-495.96	0.79	0.31	-44.52	
6,851.00	0.69	322.71	6,820.17	118.91	494.35	-495.01	0.45	-0.45	5.33	
6,946.00	0.40	339.02	6,915.16	119.67	493.89	-494.55	0.34	-0.31	17.17	
7,040.00	0.28	267.50	7,009.16	119.97	493.54	-494.20	0.44	-0.13	-76.09	
7,134.00	0.25	276.38	7,103.16	119.98	493.10	-493.77	0.05	-0.03	9.45	
7,229.00	0.81	312.79	7,198.16	120.46	492.41	-493.07	0.66	0.59	38.33	
7,323.00	0.84	329.20	7,292.15	121.51	491.57	-492.24	0.25	0.03	17.46	
7,417.00	0.88	272.84	7,386.14	122.13	490.49	-491.17	0.86	0.04	-59.96	
7,512.00	0.63	250.72	7,481.13	122.00	489.27	-489.94	0.40	-0.26	-23.28	
7,606.00	0.58	250.52	7,575.12	121.67	488.33	-489.01	0.05	-0.05	-0.21	
7,700.00	0.66	245.02	7,669.12	121.28	487.39	-488.06	0.11	0.09	-5.85	
7,795.00	0.76	259.89	7,764.11	120.94	486.28	-486.95	0.22	0.11	15.65	
7,889.00	0.74	314.12	7,858.10	121.25	485.23	-485.90	0.73	-0.02	57.69	
7,910.00	0.80	314.81	7,879.10	121.45	485.03	-485.70	0.29	0.29	3.29	
8,007.00	0.65	236.45	7,976.10	121.62	484.09	-484.76	0.95	-0.15	-80.78	
8,090.00	3.10	263.70	8,059.05	121.12	481.46	-482.13	3.07	2.96	32.83	
KOP: 8090.00' MD, -482.13' VS,8059.05' TVD										
8,102.00	3.47	264.41	8,071.03	121.05	480.78	-481.45	3.07	3.05	5.93	
8,196.00	16.60	272.93	8,163.39	121.46	464.46	-465.14	14.02	13.97	9.06	
8,198.56	16.75	272.84	8,165.84	121.49	463.73	-464.40	6.06	5.97	-3.58	
100'FEL: 8198.56' MD, -464.40' VS,8165.84' TVD										
8,291.00	22.29	270.35	8,252.94	122.26	432.87	-433.55	6.06	5.99	-2.69	
8,385.00	35.11	268.53	8,335.22	121.67	387.83	-388.50	13.67	13.64	-1.94	
8,480.00	44.92	266.03	8,407.89	118.64	326.91	-327.56	10.46	10.33	-2.63	
8,539.62	49.51	266.65	8,448.38	115.86	283.25	-283.89	7.74	7.70	1.04	
01-FTP(D34 134H)										
8,575.00	52.24	266.98	8,470.70	114.34	255.85	-256.48	7.74	7.71	0.93	
8,670.00	58.89	266.01	8,524.39	109.52	177.69	-178.30	7.05	7.00	-1.02	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Dawson 34 Fed State Com 134H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3300+30 @ 3330.00usft (KB=30)
Site:	Dawson 34 Fed State Com	MD Reference:	3300+30 @ 3330.00usft (KB=30)
Well:	Dawson 34 Fed State Com 134H	North Reference:	Grid
Wellbore:	134H	Survey Calculation Method:	Minimum Curvature
Design:	DRL	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,764.00	64.02	267.60	8,569.29	104.95	95.27	-95.86	5.66	5.46	1.69
8,859.00	70.14	266.73	8,606.27	100.61	7.93	-8.49	6.50	6.44	-0.92
8,954.00	79.50	269.66	8,631.13	97.78	-83.60	83.06	10.29	9.85	3.08
9,048.00	86.75	270.55	8,642.37	97.95	-176.86	176.31	7.77	7.71	0.95
9,077.00	87.85	270.80	8,643.74	98.30	-205.83	205.28	3.90	3.80	0.86
EOC: 9077.00' MD, 205.28' VS, 8643.74' TVD									
9,143.00	90.36	271.37	8,644.77	99.55	-271.80	271.24	3.90	3.80	0.86
9,237.00	92.78	270.02	8,642.19	100.69	-365.75	365.18	2.95	2.57	-1.44
9,332.00	92.83	270.03	8,637.54	100.73	-460.64	460.07	0.05	0.05	0.01
9,426.00	94.16	268.62	8,631.81	99.62	-554.45	553.89	2.06	1.41	-1.50
9,521.00	94.49	267.47	8,624.65	96.39	-649.13	648.58	1.26	0.35	-1.21
9,615.00	94.35	267.54	8,617.40	92.31	-742.76	742.23	0.17	-0.15	0.07
9,710.00	92.67	267.31	8,611.59	88.05	-837.48	836.97	1.78	-1.77	-0.24
9,805.00	92.75	267.34	8,607.10	83.62	-932.27	931.79	0.09	0.08	0.03
9,899.00	91.18	268.37	8,603.87	80.11	-1,026.14	1,025.68	2.00	-1.67	1.10
9,994.00	91.54	268.59	8,601.62	77.59	-1,121.08	1,120.63	0.44	0.38	0.23
10,089.00	92.19	268.64	8,598.53	75.29	-1,216.01	1,215.57	0.69	0.68	0.05
10,183.00	92.30	268.70	8,594.84	73.11	-1,309.91	1,309.48	0.13	0.12	0.06
10,278.00	92.94	268.56	8,590.50	70.84	-1,404.78	1,404.36	0.69	0.67	-0.15
10,373.00	91.91	270.18	8,586.48	69.80	-1,499.69	1,499.27	2.02	-1.08	1.71
10,467.00	91.99	269.94	8,583.28	69.90	-1,593.63	1,593.22	0.27	0.09	-0.26
10,562.00	92.05	270.04	8,579.94	69.88	-1,688.57	1,688.16	0.12	0.06	0.11
10,656.00	91.99	269.82	8,576.62	69.77	-1,782.51	1,782.10	0.24	-0.06	-0.23
10,751.00	92.25	269.66	8,573.11	69.34	-1,877.45	1,877.03	0.32	0.27	-0.17
10,845.00	92.33	269.69	8,569.35	68.80	-1,971.37	1,970.96	0.09	0.09	0.03
10,940.00	93.23	270.72	8,564.74	69.14	-2,066.26	2,065.84	1.44	0.95	1.08
11,034.00	92.67	270.56	8,559.91	70.19	-2,160.13	2,159.70	0.62	-0.60	-0.17
11,129.00	92.67	270.77	8,555.48	71.29	-2,255.02	2,254.58	0.22	0.00	0.22
11,224.00	92.41	270.45	8,551.27	72.30	-2,349.92	2,349.48	0.43	-0.27	-0.34
11,318.00	92.39	270.15	8,547.33	72.79	-2,443.83	2,443.39	0.32	-0.02	-0.32
11,374.01	91.46	270.76	8,545.45	73.24	-2,499.81	2,499.36	1.99	-1.66	1.10
02-02500VS(D34 134H)									
11,413.00	90.81	271.19	8,544.68	73.91	-2,538.79	2,538.33	1.99	-1.66	1.09
11,507.00	91.91	269.42	8,542.45	74.41	-2,632.75	2,632.30	2.22	1.17	-1.88
11,602.00	90.06	267.23	8,540.82	71.63	-2,727.69	2,727.25	3.02	-1.95	-2.31
11,696.00	88.51	268.08	8,541.99	67.78	-2,821.60	2,821.18	1.88	-1.65	0.90
11,790.00	88.80	267.93	8,544.20	64.51	-2,915.52	2,915.11	0.35	0.31	-0.16
11,884.00	90.24	267.54	8,544.98	60.80	-3,009.44	3,009.05	1.59	1.53	-0.41
11,979.00	91.78	267.22	8,543.31	56.46	-3,104.32	3,103.95	1.66	1.62	-0.34
12,073.00	89.66	268.65	8,542.13	53.07	-3,198.24	3,197.90	2.72	-2.26	1.52
12,167.00	90.41	268.69	8,542.07	50.89	-3,292.22	3,291.88	0.80	0.80	0.04
12,262.00	91.84	267.97	8,540.21	48.12	-3,387.15	3,386.83	1.69	1.51	-0.76
12,356.00	89.83	269.10	8,538.84	45.72	-3,481.11	3,480.80	2.45	-2.14	1.20
12,450.00	90.12	268.63	8,538.88	43.86	-3,575.09	3,574.79	0.59	0.31	-0.50



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Dawson 34 Fed State Com 134H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3300+30 @ 3330.00usft (KB=30)
Site:	Dawson 34 Fed State Com	MD Reference:	3300+30 @ 3330.00usft (KB=30)
Well:	Dawson 34 Fed State Com 134H	North Reference:	Grid
Wellbore:	134H	Survey Calculation Method:	Minimum Curvature
Design:	DRL	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,545.00	89.53	269.61	8,539.17	42.40	-3,670.08	3,669.78	1.20	-0.62	1.03
12,639.00	90.68	269.85	8,539.00	41.95	-3,764.07	3,763.78	1.25	1.22	0.26
12,734.00	89.62	269.35	8,538.75	41.29	-3,859.07	3,858.78	1.23	-1.12	-0.53
12,828.00	90.38	269.39	8,538.75	40.26	-3,953.06	3,952.78	0.81	0.81	0.04
12,923.00	91.47	269.26	8,537.21	39.14	-4,048.04	4,047.76	1.16	1.15	-0.14
13,017.00	91.12	267.87	8,535.09	36.78	-4,141.99	4,141.72	1.52	-0.37	-1.48
13,112.00	89.81	265.72	8,534.32	31.47	-4,236.83	4,236.58	2.65	-1.38	-2.26
13,206.00	90.49	265.15	8,534.07	23.99	-4,330.53	4,330.33	0.94	0.72	-0.61
13,300.00	88.86	265.09	8,534.60	16.00	-4,424.18	4,424.02	1.74	-1.73	-0.06
13,395.00	88.68	266.50	8,536.64	9.03	-4,518.90	4,518.78	1.50	-0.19	1.48
13,489.00	89.62	266.49	8,538.04	3.29	-4,612.71	4,612.62	1.00	1.00	-0.01
13,584.00	88.50	267.38	8,539.60	-1.79	-4,707.56	4,707.50	1.51	-1.18	0.94
13,678.00	87.39	269.48	8,542.97	-4.37	-4,801.46	4,801.41	2.53	-1.18	2.23
13,773.00	89.10	269.75	8,545.88	-5.01	-4,896.41	4,896.36	1.82	1.80	0.28
13,867.00	91.11	267.36	8,545.70	-7.38	-4,990.37	4,990.33	3.32	2.14	-2.54
03-05000VS-Shift(D34 134H)									
13,873.78	91.16	267.34	8,545.57	-7.69	-4,997.14	4,997.11	0.85	0.77	-0.36
03-05000VS(D34 134H)									
13,961.00	91.83	267.02	8,543.29	-11.98	-5,084.22	5,084.21	0.85	0.77	-0.36
14,055.00	92.74	266.81	8,539.55	-17.04	-5,178.01	5,178.03	0.99	0.97	-0.22
14,150.00	91.64	266.55	8,535.92	-22.53	-5,272.78	5,272.83	1.19	-1.16	-0.27
14,188.28	90.64	266.85	8,535.15	-24.74	-5,310.99	5,311.05	2.72	-2.61	0.79
00-AC-W10-Oxy33#1(D34134H) SQC									
14,188.80	90.63	266.86	8,535.15	-24.77	-5,311.51	5,311.56	2.72	-2.61	0.79
00-AC-W10-Oxy33#1(D34134H) 13395MD SQC+Rev4									
14,196.98	90.42	266.92	8,535.07	-25.21	-5,319.68	5,319.74	2.72	-2.61	0.79
03-05319VS(D34 134H)									
14,244.00	89.19	267.29	8,535.23	-27.58	-5,366.64	5,366.71	2.72	-2.61	0.79
14,339.00	87.56	270.49	8,537.93	-29.42	-5,461.56	5,461.64	3.78	-1.72	3.37
14,433.00	88.99	273.71	8,540.76	-25.98	-5,555.44	5,555.50	3.75	1.52	3.43
14,528.00	90.34	274.37	8,541.31	-19.29	-5,650.20	5,650.22	1.58	1.42	0.69
14,622.00	91.31	274.18	8,539.96	-12.28	-5,743.93	5,743.91	1.05	1.03	-0.20
14,717.00	92.26	274.01	8,537.00	-5.50	-5,838.64	5,838.58	1.02	1.00	-0.18
14,811.00	91.28	272.86	8,534.10	0.13	-5,932.42	5,932.33	1.61	-1.04	-1.22
14,906.00	92.00	273.00	8,531.38	4.98	-6,027.26	6,027.14	0.77	0.76	0.15
15,000.00	91.19	272.31	8,528.76	9.33	-6,121.12	6,120.97	1.13	-0.86	-0.73
15,094.00	92.21	272.20	8,525.97	13.03	-6,215.01	6,214.84	1.09	1.09	-0.12
15,188.00	93.13	272.05	8,521.60	16.51	-6,308.84	6,308.65	0.99	0.98	-0.16
15,283.00	91.05	271.03	8,518.13	19.06	-6,403.74	6,403.53	2.44	-2.19	-1.07
15,377.00	91.88	270.88	8,515.73	20.63	-6,497.69	6,497.47	0.90	0.88	-0.16
15,472.00	90.92	270.51	8,513.41	21.78	-6,592.65	6,592.43	1.08	-1.01	-0.39
15,566.00	89.87	271.17	8,512.76	23.16	-6,686.64	6,686.41	1.32	-1.12	0.70
15,660.00	90.37	271.05	8,512.56	24.98	-6,780.62	6,780.38	0.55	0.53	-0.13
15,755.00	91.38	270.79	8,511.11	26.51	-6,875.60	6,875.34	1.10	1.06	-0.27



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Dawson 34 Fed State Com 134H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3300+30 @ 3330.00usft (KB=30)
Site:	Dawson 34 Fed State Com	MD Reference:	3300+30 @ 3330.00usft (KB=30)
Well:	Dawson 34 Fed State Com 134H	North Reference:	Grid
Wellbore:	134H	Survey Calculation Method:	Minimum Curvature
Design:	DRL	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,849.00	92.23	270.58	8,508.15	27.63	-6,969.54	6,969.28	0.93	0.90	-0.22
15,943.00	92.63	270.52	8,504.17	28.53	-7,063.45	7,063.18	0.43	0.43	-0.06
16,037.00	91.14	269.99	8,501.07	28.95	-7,157.40	7,157.13	1.68	-1.59	-0.56
16,132.00	91.89	270.13	8,498.56	29.05	-7,252.37	7,252.09	0.80	0.79	0.15
16,226.00	90.24	269.62	8,496.81	28.84	-7,346.35	7,346.07	1.84	-1.76	-0.54
16,321.00	90.37	269.59	8,496.31	28.19	-7,441.34	7,441.07	0.14	0.14	-0.03
16,379.59	91.02	269.41	8,495.60	27.67	-7,499.92	7,499.65	1.16	1.12	-0.32
04-07500VS(D34 134H)									
16,416.00	91.43	269.29	8,494.82	27.26	-7,536.32	7,536.05	1.16	1.12	-0.32
16,510.00	90.16	269.83	8,493.51	26.54	-7,630.31	7,630.04	1.47	-1.35	0.57
16,605.00	91.16	269.90	8,492.42	26.31	-7,725.30	7,725.03	1.06	1.05	0.07
16,699.00	91.12	269.56	8,490.55	25.87	-7,819.28	7,819.02	0.36	-0.04	-0.36
16,794.00	90.80	269.32	8,488.96	24.94	-7,914.26	7,914.00	0.42	-0.34	-0.25
16,888.00	89.84	269.11	8,488.43	23.65	-8,008.25	8,008.00	1.05	-1.02	-0.22
16,983.00	89.80	269.34	8,488.73	22.37	-8,103.24	8,102.99	0.25	-0.04	0.24
17,077.00	89.88	270.03	8,488.99	21.85	-8,197.24	8,196.99	0.74	0.09	0.73
17,172.00	89.54	269.87	8,489.47	21.77	-8,292.24	8,291.99	0.40	-0.36	-0.17
17,266.00	89.52	270.47	8,490.24	22.05	-8,386.24	8,385.98	0.64	-0.02	0.64
17,361.00	90.21	269.85	8,490.47	22.31	-8,481.23	8,480.98	0.98	0.73	-0.65
17,455.00	90.30	269.79	8,490.05	22.02	-8,575.23	8,574.98	0.12	0.10	-0.06
17,532.00	90.35	269.62	8,489.61	21.62	-8,652.23	8,651.97	0.23	0.06	-0.22
17,627.00	91.69	269.67	8,487.92	21.03	-8,747.21	8,746.96	1.41	1.41	0.05
17,721.00	92.52	269.16	8,484.47	20.07	-8,841.14	8,840.89	1.04	0.88	-0.54
17,816.00	91.61	270.38	8,481.05	19.69	-8,936.08	8,935.83	1.60	-0.96	1.28
17,910.00	90.18	272.54	8,479.58	22.09	-9,030.03	9,029.76	2.76	-1.52	2.30
18,005.00	89.44	272.18	8,479.89	26.00	-9,124.94	9,124.66	0.87	-0.78	-0.38
18,099.00	89.79	272.23	8,480.52	29.62	-9,218.87	9,218.56	0.38	0.37	0.05
18,194.00	90.65	271.48	8,480.16	32.69	-9,313.82	9,313.49	1.20	0.91	-0.79
18,288.00	91.95	271.53	8,478.03	35.16	-9,407.76	9,407.42	1.38	1.38	0.05
18,382.00	92.51	270.78	8,474.37	37.05	-9,501.67	9,501.32	1.00	0.60	-0.80
18,477.00	92.81	270.69	8,469.96	38.27	-9,596.56	9,596.20	0.33	0.32	-0.09
18,571.00	93.94	270.09	8,464.43	38.91	-9,690.39	9,690.03	1.36	1.20	-0.64
18,668.00	92.35	270.09	8,459.11	39.06	-9,787.24	9,786.87	1.64	-1.64	0.00
18,762.00	92.61	269.84	8,455.04	39.00	-9,881.16	9,880.78	0.38	0.28	-0.27
18,827.57	92.74	269.85	8,451.97	38.83	-9,946.66	9,946.29	0.21	0.21	0.01
05-LTP(D34 134H)									
18,829.10	92.75	269.85	8,451.90	38.82	-9,948.18	9,947.81	0.21	0.21	0.01
100'FWL: 18829.10' MD, 9947.81' VS, 8451.90' TVD									
18,835.00	92.76	269.85	8,451.62	38.81	-9,954.08	9,953.70	0.21	0.21	0.01
Final MWD Survey: 18835.00' MD, 92.76°INC, 269.85°AZ - 06-10000VS(D34 134H) - 07-PBHL(D34 134H)									



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Dawson 34 Fed State Com 134H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3300+30 @ 3330.00usft (KB=30)
Site:	Dawson 34 Fed State Com	MD Reference:	3300+30 @ 3330.00usft (KB=30)
Well:	Dawson 34 Fed State Com 134H	North Reference:	Grid
Wellbore:	134H	Survey Calculation Method:	Minimum Curvature
Design:	DRL	Database:	EDM 5000.14 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,090.00	8,059.05	121.12	481.46	KOP: 8090.00' MD, -482.13' VS, 8059.05' TVD
8,198.56	8,165.84	121.49	463.73	100'FEL: 8198.56' MD, -464.40' VS, 8165.84' TVD
9,077.00	8,643.74	98.30	-205.83	EOC: 9077.00' MD, 205.28' VS, 8643.74' TVD
18,829.10	8,451.90	38.82	-9,948.18	100'FWL: 18829.10' MD, 9947.81' VS, 8451.90' TVD
18,835.00	8,451.62	38.81	-9,954.08	Final MWD Survey: 18835.00' MD, 92.76°INC, 269.85°AZ

Checked By: _____ Approved By: _____ 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

CONDITIONS

Action 16194

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
COLGATE OPERATING, LLC Suite 1000 Midland, TX79701	371449	16194	C-104C
300 North Marienfeld Street			
OCD Reviewer	Condition		
ksimmons	None		