

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

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 N Marienfeld Street, Suite 1000 Midland, Tx 79701		² OGRID Number 371449	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 – 015 – 46298	⁵ Pool Name WINCHESTER; BONE SPRING		⁶ Pool Code 65010
⁷ Property Code 326127	⁸ Property Name LADY FRANKLIN 25 STATE		⁹ Well Number 121H

II. ¹⁰ Surface Location

UL or lot no. D	Section 25	Township 19S	Range 28E	Lot Idn	Feet from the 1,000	North/South Line North	Feet from the 265	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. A	Section 25	Township 19S	Range 28E	Lot Idn	Feet from the 744	North/South line North	Feet from the 17	East/West line East	County Eddy
¹² Lse Code S	¹³ Producing Method Code P		¹⁴ Gas Connection Date 06/26/2020		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
329097	LM TOUCHDOWN, LLC	G

IV. Well Completion Data

²¹ Spud Date 03/04/2020	²² Ready Date 06/26/2020	²³ TD 12,537’ MD 7,727 TVD	²⁴ PBDT 12,515’ 7,727 TVD	²⁵ Perforations 7,966’ – 12,341’	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17.5		13.375		334	400
12.25		9.625		3,027	440
8.5		5.5		12,517	1,700

V. Well Test Data

³¹ Date New Oil 06/26/2020	³² Gas Delivery Date 06/26/2020	³³ Test Date 07/11/2020	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 175	³⁶ Csg. Pressure 532
³⁷ Choke Size 58/64	³⁸ Oil 2,846	³⁹ Water 2,055	⁴⁰ Gas 2,875		⁴¹ Test Method P
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: 			OIL CONSERVATION DIVISION		
Printed name: Mikah Thomas			Approved by: <i>PATRICIA MARTINEZ</i>		
Title: Operations Tech			Title: <i>PETROLEUM SPECIALIST</i>		
E-mail Address: mthomas@colgateenergy.com			Approval Date: <i>12/8/2021</i>		
Date: 11/07/2021		Phone: 432-695-4272			

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
30-015-46298	65010	WINCHESTER; BONE SPRING
⁴ Property Code	⁵ Property Name	⁶ Well Number
326127	LADY FRANKLIN 25 STATE	121H
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
371449	COLGATE ENERGY LLC	3358.6

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	19 S	28 E		1000	NORTH	265	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	19 S	28 E		744	NORTH	17	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°25'05"E 2611.74 FT

N89°23'56"E 2612.13 FT

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] 06/12/2020

Signature Date

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.

MAY 5, 2020

Date of Survey

N00°10'12"W 2641.30 FT

N00°13'37"W 2641.18 FT

N00°13'37"W 2641.37 FT

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] 06/12/2020

Signature Date

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.

MAY 5, 2020

Date of Survey

NW CORNER SEC. 25
LAT. = 32.6391151°N
LONG. = 104.1389225°W
NMSP EAST (FT)
N = 596295.72
E = 601180.81

N/4 CORNER SEC. 25
LAT. = 32.6391746°N
LONG. = 104.1304402°W
NMSP EAST (FT)
N = 596322.24
E = 603791.78

NE CORNER SEC. 25
LAT. = 32.6392359°N
LONG. = 104.1219567°W
NMSP EAST (FT)
N = 596349.64
E = 606403.13

AS-DRILLED BORE PATH (FTP TO BHL)
(7226.35 MD) N89°02'08"E 5107.80 FT (12452.91 MD) BHL

AS-DRILLED BOTTOM OF HOLE (12537 MD)
LAT. = 32.6371906°N
LONG. = 104.1220077°W
NMSP EAST (FT)
N = 595605.54
E = 606388.90

AS-DRILLED LAST TAKE POINT
747' FNL, 101' FEL (12452.91 MD)
LAT. = 32.6371798°N
LONG. = 104.1222805°W
NMSP EAST (FT)
N = 595601.43
E = 606304.94

AS-DRILLED FIRST TAKE POINT
777' FNL, 100' FWL (7226.35 MD)
LAT. = 32.6369812°N
LONG. = 104.1385949°W
NMSP EAST (FT)
N = 595519.59
E = 601283.08

E/4 CORNER SEC. 25
LAT. = 32.6319766°N
LONG. = 104.1219393°W
NMSP EAST (FT)
N = 593708.69
E = 606413.74

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. VERTICAL DATUM NAVD88.

SW CORNER SEC. 25
LAT. = 32.6245986°N
LONG. = 104.1388945°W
NMSP EAST (FT)
N = 591014.56
E = 601199.10

S/4 CORNER SEC. 25
LAT. = 32.6246368°N
LONG. = 104.1304029°W
NMSP EAST (FT)
N = 591033.35
E = 603813.37

SE CORNER SEC. 25
LAT. = 32.6246728°N
LONG. = 104.1219115°W
NMSP EAST (FT)
N = 591051.52
E = 606427.58

S89°35'18"W 2614.97 FT

S89°36'06"W 2614.91 FT

Signature and Seal of Professional Surveyor:

Certificate Number: FIRMORE JARAMILLO, PLS 12797

SURVEY NO. 7382A

Intent ☐ As Drilled ☒

API #		
Operator Name: COLGATE ENERGY LLC	Property Name: LADY FRANKLIN 25 STATE	Well Number 121H

Kick Off Point (KOP)

UL D	Section 25	Township 19S	Range 28E	Lot	Feet 778	From N/S NORTH	Feet 67	From E/W WEST	County EDDY
Latitude 32.6369789					Longitude 104.1387008			NAD 83	

First Take Point (FTP)

UL D	Section 25	Township 19S	Range 28E	Lot	Feet 777	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.6369812					Longitude 104.1385949			NAD 83	

Last Take Point (LTP)

UL A	Section 25	Township 19S	Range 28E	Lot	Feet 747	From N/S NORTH	Feet 101	From E/W EAST	County EDDY
Latitude 32.6371798					Longitude 104.1222805			NAD 83	

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

☐ No

Is this well an infill well?

☐ No

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



Colgate Energy

Eddy County, NM (N83-NME)

Lady Franklin 25

Lady Franklin 25 State 121H - Slot N01

30-015-46298

121H

Design: 121H

Standard Survey Report

04 May, 2020



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 121H - Slot N01
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3358.6+26 @ 3384.60usft (HP481)
Site:	Lady Franklin 25	MD Reference:	3358.6+26 @ 3384.60usft (HP481)
Well:	Lady Franklin 25 State 121H	North Reference:	Grid
Wellbore:	121H	Survey Calculation Method:	Minimum Curvature
Design:	121H	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		Lady Franklin 25			
Site Position:		Northing:	596,295.72 usft	Latitude:	32.63911509
From:	Map	Easting:	601,180.81 usft	Longitude:	-104.13892250
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.10 °

Well	Lady Franklin 25 State 121H - Slot N01					
Well Position	+N/-S	0.00 usft	Northing:	595,298.65 usft	Latitude:	32.63637308
	+E/-W	0.00 usft	Easting:	601,448.73 usft	Longitude:	-104.13805808
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,358.60 usft

Wellbore	121H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/29/2020	7.30	60.44	47,938.20000000

Design	121H				
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	89.41	

Survey Program	Date	5/4/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
171.00	7,542.00	Survey #1 - First Directional MWD (121H)	OWSG MWD Rev 4	OWSG MWD - Standard	
7,589.00	12,462.00	Survey #3 - FDIR Report thru TD (121H)	MWD+IFR1+FDIR (SQC)	OWSG MWD + IFR1 + FDIR Correction	
12,537.00	12,537.00	Survey #4 - PTB (121H)	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
171.00	1.06	250.23	170.99	-0.54	-1.49	-1.49	0.62	0.62	0.00	
288.00	0.18	37.53	287.98	-0.76	-2.40	-2.40	1.04	-0.75	125.90	
429.00	0.70	294.53	428.98	-0.22	-3.04	-3.05	0.54	0.37	-73.05	
523.00	0.40	295.49	522.98	0.16	-3.86	-3.86	0.32	-0.32	1.02	
631.00	0.31	15.56	630.97	0.60	-4.12	-4.12	0.43	-0.08	74.14	
757.00	0.09	340.58	756.97	1.02	-4.07	-4.05	0.19	-0.17	-27.76	
851.00	0.09	272.91	850.97	1.10	-4.16	-4.15	0.11	0.00	-71.99	
945.00	0.79	351.39	944.97	1.74	-4.33	-4.32	0.83	0.74	83.49	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 121H - Slot N01
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3358.6+26 @ 3384.60usft (HP481)
Site:	Lady Franklin 25	MD Reference:	3358.6+26 @ 3384.60usft (HP481)
Well:	Lady Franklin 25 State 121H	North Reference:	Grid
Wellbore:	121H	Survey Calculation Method:	Minimum Curvature
Design:	121H	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)
1,040.00	1.71	345.94	1,039.95	3.76	-4.78	-4.74	0.98	0.97	-5.74
1,135.00	3.38	338.47	1,134.85	7.74	-6.15	-6.07	1.79	1.76	-7.86
1,229.00	2.90	342.51	1,228.71	12.59	-7.88	-7.75	0.56	-0.51	4.30
1,324.00	3.38	336.36	1,323.57	17.45	-9.73	-9.55	0.62	0.51	-6.47
1,418.00	3.21	333.64	1,417.41	22.34	-12.01	-11.78	0.25	-0.18	-2.89
1,513.00	3.78	330.39	1,512.23	27.45	-14.73	-14.45	0.63	0.60	-3.42
1,608.00	3.91	328.36	1,607.02	32.93	-17.98	-17.64	0.20	0.14	-2.14
1,702.00	4.09	330.03	1,700.79	38.56	-21.34	-20.94	0.23	0.19	1.78
1,797.00	4.09	329.24	1,795.55	44.41	-24.76	-24.30	0.06	0.00	-0.83
1,892.00	3.78	328.98	1,890.33	50.00	-28.11	-27.59	0.33	-0.33	-0.27
1,986.00	4.31	323.71	1,984.09	55.51	-31.80	-31.22	0.69	0.56	-5.61
2,081.00	3.78	315.80	2,078.85	60.63	-36.09	-35.46	0.81	-0.56	-8.33
2,176.00	3.12	308.06	2,173.68	64.47	-40.31	-39.64	0.85	-0.69	-8.15
2,271.00	3.21	306.48	2,268.54	67.64	-44.48	-43.79	0.13	0.09	-1.66
2,365.00	3.60	301.03	2,362.37	70.73	-49.13	-48.40	0.54	0.41	-5.80
2,460.00	3.30	311.40	2,457.20	74.07	-53.74	-52.97	0.73	-0.32	10.92
2,555.00	3.21	314.39	2,552.05	77.74	-57.69	-56.88	0.20	-0.09	3.15
2,650.00	3.12	310.17	2,646.90	81.27	-61.56	-60.72	0.26	-0.09	-4.44
2,744.00	3.60	313.42	2,740.74	84.95	-65.66	-64.78	0.55	0.51	3.46
2,839.00	3.78	316.67	2,835.54	89.28	-69.98	-69.05	0.29	0.19	3.42
2,934.00	3.69	313.69	2,930.34	93.67	-74.34	-73.37	0.23	-0.09	-3.14
2,965.00	3.78	314.57	2,961.28	95.07	-75.79	-74.80	0.34	0.29	2.84
3,064.00	4.40	322.21	3,060.02	100.36	-80.44	-79.40	0.83	0.63	7.72
3,159.00	4.40	317.91	3,154.74	105.95	-85.11	-84.02	0.35	0.00	-4.53
3,254.00	4.31	322.30	3,249.47	111.48	-89.74	-88.59	0.36	-0.09	4.62
3,348.00	4.22	323.09	3,343.21	117.04	-93.98	-92.77	0.11	-0.10	0.84
3,443.00	4.09	320.37	3,437.96	122.44	-98.24	-96.97	0.25	-0.14	-2.86
3,538.00	3.78	317.73	3,532.74	127.37	-102.50	-101.19	0.38	-0.33	-2.78
3,632.00	3.60	322.39	3,626.54	132.00	-106.39	-105.02	0.37	-0.19	4.96
3,727.00	3.69	325.29	3,721.35	136.87	-109.95	-108.53	0.22	0.09	3.05
3,822.00	3.91	320.89	3,816.14	141.90	-113.73	-112.27	0.38	0.23	-4.63
3,916.00	4.40	314.92	3,909.89	146.93	-118.31	-116.79	0.69	0.52	-6.35
4,011.00	4.48	314.30	4,004.61	152.10	-123.54	-121.97	0.10	0.08	-0.65
4,105.00	3.60	315.62	4,098.37	156.77	-128.24	-126.61	0.94	-0.94	1.40
4,200.00	2.37	333.37	4,193.25	160.66	-131.20	-129.54	1.60	-1.29	18.68
4,295.00	2.02	336.27	4,288.18	163.95	-132.76	-131.06	0.39	-0.37	3.05
4,389.00	2.02	338.74	4,382.12	167.01	-134.02	-132.30	0.09	0.00	2.63
4,484.00	1.89	342.08	4,477.06	170.06	-135.11	-133.36	0.18	-0.14	3.52
4,578.00	1.71	343.48	4,571.02	172.88	-135.99	-134.20	0.20	-0.19	1.49
4,673.00	2.29	338.12	4,665.96	176.00	-137.10	-135.28	0.64	0.61	-5.64
4,768.00	2.11	337.59	4,760.89	179.38	-138.47	-136.62	0.19	-0.19	-0.56
4,862.00	2.20	347.52	4,854.82	182.74	-139.52	-137.63	0.41	0.10	10.56
4,957.00	3.21	331.79	4,949.72	186.86	-141.17	-139.24	1.31	1.06	-16.56



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 121H - Slot N01
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3358.6+26 @ 3384.60usft (HP481)
Site:	Lady Franklin 25	MD Reference:	3358.6+26 @ 3384.60usft (HP481)
Well:	Lady Franklin 25 State 121H	North Reference:	Grid
Wellbore:	121H	Survey Calculation Method:	Minimum Curvature
Design:	121H	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)	
5,051.00	3.12	334.34	5,043.57	191.49	-143.53	-141.55	0.18	-0.10	2.71	
5,146.00	3.21	338.12	5,138.43	196.29	-145.64	-143.61	0.24	0.09	3.98	
5,240.00	3.38	335.31	5,232.27	201.25	-147.78	-145.70	0.25	0.18	-2.99	
5,335.00	3.69	339.00	5,327.09	206.64	-150.04	-147.90	0.40	0.33	3.88	
5,429.00	3.91	336.36	5,420.89	212.40	-152.41	-150.21	0.30	0.23	-2.81	
5,524.00	2.29	325.02	5,515.74	216.93	-154.80	-152.55	1.82	-1.71	-11.94	
5,619.00	1.80	320.54	5,610.68	219.63	-156.83	-154.56	0.54	-0.52	-4.72	
5,713.00	1.80	315.71	5,704.64	221.83	-158.80	-156.51	0.16	0.00	-5.14	
5,808.00	2.11	317.47	5,799.58	224.19	-161.03	-158.71	0.33	0.33	1.85	
5,903.00	2.02	318.78	5,894.52	226.74	-163.31	-160.97	0.11	-0.09	1.38	
5,997.00	2.11	311.23	5,988.46	229.12	-165.70	-163.34	0.30	0.10	-8.03	
6,008.51	2.16	310.94	5,999.96	229.40	-166.03	-163.66	0.43	0.42	-2.48	
LF25-121H-EON										
6,092.00	2.51	309.20	6,083.38	231.59	-168.63	-166.24	0.43	0.42	-2.09	
6,187.00	2.29	289.78	6,178.30	233.55	-172.03	-169.62	0.88	-0.23	-20.44	
6,282.00	2.29	274.93	6,273.22	234.35	-175.71	-173.28	0.62	0.00	-15.63	
6,376.00	2.68	273.61	6,367.14	234.65	-179.77	-177.35	0.42	0.41	-1.40	
6,471.00	1.71	242.67	6,462.07	234.14	-183.25	-180.83	1.58	-1.02	-32.57	
6,566.00	1.89	224.92	6,557.02	232.38	-185.61	-183.21	0.61	0.19	-18.68	
6,661.00	2.20	234.67	6,651.96	230.22	-188.21	-185.83	0.49	0.33	10.26	
6,756.00	2.29	235.11	6,746.89	228.08	-191.25	-188.89	0.10	0.09	0.46	
6,851.00	2.51	218.76	6,841.81	225.37	-194.11	-191.78	0.75	0.23	-17.21	
6,912.00	2.81	221.84	6,902.74	223.21	-195.94	-193.64	0.54	0.49	5.05	
6,974.00	2.68	218.08	6,964.67	220.94	-197.85	-195.57	0.36	-0.21	-6.06	
7,000.00	1.69	190.38	6,990.65	220.08	-198.30	-196.02	5.46	-3.80	-106.52	
KOP: 7000.00' MD, -196.02' VS, 6990.65' TVD										
7,020.00	1.51	151.01	7,010.64	219.56	-198.22	-195.95	5.46	-0.91	-196.87	
7,068.00	4.58	90.06	7,058.58	219.01	-196.00	-193.73	8.47	6.40	-126.98	
7,163.00	12.21	86.85	7,152.49	219.56	-182.15	-179.88	8.04	8.03	-3.38	
7,226.35	18.06	83.75	7,213.62	221.00	-165.69	-163.41	9.32	9.23	-4.89	
100FWL: 7226.35' MD, -163.41' VS, 7213.62' TVD										
7,258.00	20.99	82.84	7,243.45	222.24	-155.19	-152.89	9.32	9.27	-2.89	
7,352.00	28.59	82.68	7,328.72	227.21	-116.12	-113.77	8.09	8.09	-0.17	
7,447.00	35.50	85.02	7,409.20	232.50	-66.03	-63.63	7.39	7.27	2.46	
7,494.00	38.62	88.42	7,446.71	234.09	-37.76	-35.35	7.94	6.64	7.23	
7,542.00	40.56	91.56	7,483.70	234.08	-7.18	-4.77	5.81	4.04	6.54	
7,544.83	40.84	91.60	7,485.85	234.03	-5.34	-2.93	10.03	9.97	1.55	
LF25-121H-FTP										
7,589.00	45.25	92.23	7,518.12	233.02	24.79	27.19	10.03	9.98	1.42	
7,636.00	52.60	93.63	7,548.98	231.18	60.14	62.52	15.80	15.64	2.98	
7,683.00	61.06	96.70	7,574.67	227.59	99.28	101.62	18.81	18.00	6.53	
7,731.00	69.64	98.47	7,594.68	221.82	142.48	144.75	18.19	17.88	3.69	
7,778.00	77.15	97.48	7,608.10	215.58	187.05	189.26	16.11	15.98	-2.11	
7,825.00	81.22	94.91	7,616.92	210.61	232.93	235.09	10.19	8.66	-5.47	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 121H - Slot N01
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3358.6+26 @ 3384.60usft (HP481)
Site:	Lady Franklin 25	MD Reference:	3358.6+26 @ 3384.60usft (HP481)
Well:	Lady Franklin 25 State 121H	North Reference:	Grid
Wellbore:	121H	Survey Calculation Method:	Minimum Curvature
Design:	121H	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)
7,872.00	85.53	90.96	7,622.34	208.23	279.54	281.67	12.40	9.17	-8.40
7,895.00	86.06	90.24	7,624.03	207.99	302.47	304.60	3.90	2.31	-3.15
EOC: 7895.00' MD, 304.60' VS, 7624.02' TVD									
7,920.00	86.64	89.45	7,625.62	208.05	327.42	329.55	3.90	2.31	-3.14
8,014.00	87.81	89.27	7,630.17	209.10	421.30	423.44	1.26	1.24	-0.19
8,109.00	88.73	88.67	7,633.04	210.81	516.24	518.39	1.16	0.97	-0.63
8,204.00	87.66	88.15	7,636.03	213.44	611.16	613.32	1.25	-1.13	-0.55
8,298.00	87.99	87.42	7,639.60	217.08	705.02	707.22	0.85	0.35	-0.78
8,393.00	87.33	87.90	7,643.47	220.95	799.86	802.09	0.86	-0.69	0.51
8,488.00	87.72	87.92	7,647.58	224.41	894.71	896.97	0.41	0.41	0.02
8,582.00	88.56	87.37	7,650.63	228.27	988.58	990.88	1.07	0.89	-0.59
8,677.00	89.55	87.64	7,652.19	232.41	1,083.48	1,085.81	1.08	1.04	0.28
8,772.00	88.97	88.97	7,653.42	235.22	1,178.42	1,180.78	1.53	-0.61	1.40
8,866.00	89.29	89.22	7,654.85	236.70	1,272.40	1,274.77	0.43	0.34	0.27
8,961.00	90.17	89.15	7,655.30	238.05	1,367.39	1,369.77	0.93	0.93	-0.07
9,055.00	90.70	88.95	7,654.58	239.61	1,461.37	1,463.76	0.60	0.56	-0.21
9,150.00	89.13	89.77	7,654.72	240.67	1,556.36	1,558.76	1.86	-1.65	0.86
9,245.00	90.25	90.17	7,655.24	240.72	1,651.36	1,653.75	1.25	1.18	0.42
9,339.00	88.87	89.39	7,655.96	241.08	1,745.35	1,747.74	1.69	-1.47	-0.83
9,434.00	89.66	89.21	7,657.18	242.24	1,840.34	1,842.73	0.85	0.83	-0.19
9,529.00	88.16	88.74	7,658.98	243.94	1,935.30	1,937.71	1.65	-1.58	-0.49
9,624.00	88.66	88.43	7,661.62	246.29	2,030.24	2,032.66	0.62	0.53	-0.33
9,718.00	87.73	88.52	7,664.58	248.79	2,124.16	2,126.60	0.99	-0.99	0.10
9,813.00	88.35	88.27	7,667.83	251.45	2,219.06	2,221.53	0.70	0.65	-0.26
9,908.00	89.39	87.96	7,669.70	254.57	2,313.99	2,316.49	1.14	1.09	-0.33
10,002.00	88.16	88.41	7,671.71	257.55	2,407.92	2,410.44	1.39	-1.31	0.48
10,097.00	88.60	88.32	7,674.40	260.26	2,502.84	2,505.39	0.47	0.46	-0.09
10,192.00	89.38	87.40	7,676.07	263.80	2,597.76	2,600.34	1.27	0.82	-0.97
10,286.00	88.03	89.08	7,678.20	266.69	2,691.69	2,694.29	2.29	-1.44	1.79
10,381.00	88.43	88.89	7,681.13	268.37	2,786.63	2,789.24	0.47	0.42	-0.20
10,476.00	89.32	88.28	7,683.00	270.72	2,881.58	2,884.21	1.14	0.94	-0.64
10,570.00	88.13	89.21	7,685.09	272.78	2,975.53	2,978.18	1.61	-1.27	0.99
10,665.00	88.41	89.49	7,687.96	273.85	3,070.48	3,073.14	0.42	0.29	0.29
10,759.00	89.49	89.33	7,689.68	274.82	3,164.46	3,167.12	1.16	1.15	-0.17
10,854.00	90.44	89.08	7,689.74	276.14	3,259.45	3,262.12	1.03	1.00	-0.26
10,949.00	89.21	88.72	7,690.03	277.96	3,354.43	3,357.11	1.35	-1.29	-0.38
11,043.00	89.46	88.31	7,691.12	280.40	3,448.39	3,451.09	0.51	0.27	-0.44
11,138.00	88.98	88.51	7,692.41	283.04	3,543.34	3,546.07	0.55	-0.51	0.21
11,233.00	88.59	88.76	7,694.43	285.30	3,638.29	3,641.04	0.49	-0.41	0.26
11,327.00	87.16	89.93	7,697.91	286.37	3,732.22	3,734.97	1.97	-1.52	1.24
11,422.00	87.32	90.54	7,702.49	285.98	3,827.11	3,829.85	0.66	0.17	0.64
11,517.00	87.93	89.94	7,706.42	285.59	3,922.02	3,924.76	0.90	0.64	-0.63
11,611.00	88.67	89.31	7,709.21	286.20	4,015.98	4,018.71	1.03	0.79	-0.67
11,706.00	88.08	89.62	7,711.91	287.09	4,110.94	4,113.68	0.70	-0.62	0.33



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 121H - Slot N01
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3358.6+26 @ 3384.60usft (HP481)
Site:	Lady Franklin 25	MD Reference:	3358.6+26 @ 3384.60usft (HP481)
Well:	Lady Franklin 25 State 121H	North Reference:	Grid
Wellbore:	121H	Survey Calculation Method:	Minimum Curvature
Design:	121H	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)
11,800.00	88.00	89.36	7,715.12	287.92	4,204.88	4,207.62	0.29	-0.09	-0.28
11,895.00	88.60	88.69	7,717.94	289.54	4,299.82	4,302.58	0.95	0.63	-0.71
11,990.00	88.65	89.00	7,720.22	291.45	4,394.78	4,397.54	0.33	0.05	0.33
12,084.00	87.76	89.47	7,723.16	292.71	4,488.72	4,491.50	1.07	-0.95	0.50
12,178.00	88.59	89.07	7,726.16	293.91	4,582.66	4,585.45	0.98	0.88	-0.43
12,273.00	89.32	88.35	7,727.89	296.04	4,677.62	4,680.42	1.08	0.77	-0.76
12,368.00	89.96	87.82	7,728.49	299.22	4,772.57	4,775.39	0.87	0.67	-0.56
12,452.91	90.61	87.26	7,728.06	302.86	4,857.40	4,860.26	1.01	0.77	-0.66
100FEL: 12452.91' MD, 4860.26' VS, 7728.06' TVD									
12,462.00	90.68	87.20	7,727.96	303.30	4,866.48	4,869.34	1.01	0.77	-0.66
Final MWD Survey: 12462.00' MD, 90.68°INC, 87.20°AZ									
12,537.00	90.65	87.20	7,727.09	306.97	4,941.38	4,944.28	0.04	-0.04	0.00
PTB: 12537.00' MD, 4944.14' VS, 7727.12' TVD - LF25-121H-PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LF25-121H-FTP	0.00	0.00	7,634.60	228.24	-165.67	595,526.90	601,283.06	32.63700130	-104.13859490
- hit/miss target									
- Shape									
- actual wellpath misses target center by 218.79usft at 7544.83usft MD (7485.85 TVD, 234.03 N, -5.34 E)									
- Point									
LF25-121H-PBHL	0.00	0.00	7,741.20	281.06	4,947.49	595,579.71	606,396.22	32.63711960	-104.12198410
- hit/miss target									
- Shape									
- actual wellpath misses target center by 30.13usft at 12537.00usft MD (7727.09 TVD, 306.97 N, 4941.38 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,000.00	6,990.65	220.08	-198.30	KOP: 7000.00' MD, -196.02' VS, 6990.65' TVD
7,226.35	7,213.62	221.00	-165.69	100FWL: 7226.35' MD, -163.41' VS, 7213.62' TVD
7,895.00	7,624.03	207.99	302.47	EOC: 7895.00' MD, 304.60' VS, 7624.02' TVD
12,452.91	7,728.06	302.86	4,857.40	100FEL: 12452.91' MD, 4860.26' VS, 7728.06' TVD
12,462.00	7,727.96	303.30	4,866.48	Final MWD Survey: 12462.00' MD, 90.68°INC, 87.20°AZ
12,537.00	7,727.09	306.97	4,941.38	PTB: 12537.00' MD, 4944.14' VS, 7727.12' TVD

Checked By: _____ Approved By: _____ Date: _____

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-46298
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. E0-5073-0007
7. Lease Name or Unit Agreement Name Lady Franklin 25 State
8. Well Number 121H
9. OGRID Number 371449
10. Pool name or Wildcat Winchester; Bone Spring
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3359 GL

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
 Colgate Operating, LLC

3. Address of Operator
 300 North Marienfeld, Suite 1,000 – Midland, Tx 79701

4. Well Location

Unit Letter: D 1000 feet from the North line and 265 feet from the West line

Section: 25 Township: 19S Range: 28E NMPM County: Eddy

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: New Well Completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Colgate Operating, LLC has completed the following:

6/09/2020- Pressured up casing to 7,750 psi with a 30 minute test

6/13/2020- Perf and frac stages 1-26.

Perfs 7,966 – 12,341

Frac with 183,373 bbl liquid and 9,125,381lbs of proppant

6/21/2020- Drilled out plugs

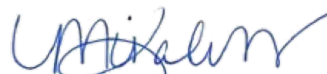
Turn over to production. Tubing 2.875 @ 7,530

TD 12,537 - PBTD 12,515

Spud Date: 03/04/2020

Rig Release Date: 03/14/2020

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: 

TITLE: Operations Tech

DATE: 12/06/2021

Type or print name Mikah Thomas

E-mail address: nthomas@colgateenergy.com

PHONE: 432-695-4272

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-015-46298		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN		
								3. State Oil & Gas Lease No.		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								5. Lease Name or Unit Agreement Name Lady Franklin 25 State		
8. Name of Operator Colgate Operating, LLC								6. Well Number: 121H		
10. Address of Operator 300 North Marcienfeld, Suite 1,000 Midland, Texas 79705								11. Pool name or Wildcat Winchester; Bone Spring		
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	D	25	19S	28E		1,000	North	265	West	Eddy
BH:	A	25	19S	28E		744	North	17	East	Eddy
13. Date Spudded 03/04/2020	14. Date T.D. Reached 03/13/2020	15. Date Rig Released 03/14/2020			16. Date Completed (Ready to Produce) 06/26/2020			17. Elevations (DF and RKB, RT, GR, etc.) 3358.6		
18. Total Measured Depth of Well 12,537			19. Plug Back Measured Depth 12,515			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Gamma Ray		
22. Producing Interval(s), of this completion - Top, Bottom, Name 7,966-12,341 Bone Spring										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13.375		54.5		334		17.5		Class C 400 sx 1.35		
9.625		40		3,027		12.25		Class C 200 sx 2.81, 220 sx 1.33		
5.5		20		12,517		8.75		Class C 640 sx 2.33, 1,030 sx 1.68		
24. LINER RECORD										
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN		25. TUBING RECORD			
							SIZE	DEPTH SET		PACKER SET
26. Perforation record (interval, size, and number) 7,966-12,341 3.0 825 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						7,966-12,341		Total Proppant 9,125,381 – Total Fluid 181,167		
28. PRODUCTION										
Date First Production 06/26/2020		Production Method (Flowing, gas lift, pumping - Size and type pump) Gas Lift					Well Status (Prod. or Shut-in) Producing			
Date of Test 07/11/2020	Hours Tested 24	Choke Size 58/64	Prod'n For Test Period	Oil – Bbl 2,846	Gas – MCF 2,875	Water - Bbl. 2,055	Gas - Oil Ratio 1,010			
Flow Tubing Press. 175	Casing Pressure 532	Calculated 24- Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.) 43.3				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold							30. Test Witnessed By Colgate Operating, LLC			
31. List Attachments C-102, C-104, Directionnel Survey										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude				Longitude				NAD83		

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature  Printed Name: Mikah Thomas Title: Operations Tech Date: 11/07/2021
E-mail Address: mthomas@colgateenergy.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Rustler- 117	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt- 372	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt- 619	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates- 1,051	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. DLWR Mnt. Group- 3,123	T. Devonian	T. Cliff House	T. Leadville
T. L Brushy Canyon- 3,460	T. Silurian	T. Menefee	T. Madison
T. BS Lime- 3,793	T. Montoya	T. Point Lookout	T. Elbert
T. 1 st Bone Spring SD- 6,623	T. Simpson	T. Mancos	T. McCracken
T. 2 nd Bone Spring LM- 7,036	T. McKee	T. Gallup	T. Ignacio Otzte
T. 2 nd Bone Spring SD- 7,483	T. Ellenburger	Base Greenhorn	T. Granite
T. 3 rd Bone Spring LM- 7,703	T. Gr. Wash	T. Dakota	
T. 3 rd Bone Spring SD- 8,543	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
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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

ACKNOWLEDGMENTS

Action 65466

ACKNOWLEDGMENTS

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 65466
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 65466

CONDITIONS

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 65466
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	12/8/2021