

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

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 – 46354	⁵ Pool Name WINCHESTER; BONE SPRING		⁶ Pool Code 65010
⁷ Property Code 326127	⁸ Property Name LADY FRANKLIN 25 STATE		⁹ Well Number 123H

II. ¹⁰ Surface Location

UL or lot no. L	Section 25	Township 19S	Range 28E	Lot Idn	Feet from the 1,381	North/South Line South	Feet from the 265	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. I	Section 25	Township 19S	Range 28E	Lot Idn	Feet from the 2,301	North/South line South	Feet from the 33	East/West line East	County Eddy
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 04/14/2021	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 01/31/2021	²² Ready Date 04/14/2021	²³ TD 12,533 MD 7759 7,735 TVD	²⁴ PBSD 12,434 MD 7,755 TVD	²⁵ Perforations 8,150-12,325	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5		13.375	336		414
12.25		9.625	3,022		701
8.75		5.5	12,518		1,478

V. Well Test Data

³¹ Date New Oil 04/14/2021	³² Gas Delivery Date 04/14/2021	³³ Test Date 04/28/2021	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 228	³⁶ Csg. Pressure 1,020
³⁷ Choke Size 88/88	³⁸ Oil 1,426	³⁹ Water 1,451	⁴⁰ Gas 1,433		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>12/7/2021</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 30-015-46354	2 Pool Code 65010	3 Pool Name WINCHESTER; BONE SPRING
4 Property Code 326127	5 Property Name LADY FRANKLIN 25 STATE	6 Well Number 123H
7 OGRID No. 371449	8 Operator Name COLGATE OPERATING, LLC	9 Elevation 3336.0'

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
L	25	19-S	28-E		1381'	SOUTH	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
I	25	19-S	28-E		2301'	SOUTH	33'	EAST	EDDY

12 Dedicated Acres 160	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.

16 CORNER DATA NEW MEXICO EAST - NAD 83 A - FOUND IRON PIPE W/ BRASS CAP N:596295.73' E:601180.65' B - FOUND IRON PIPE W/ BRASS CAP N:596322.31' E:603791.70' C - FOUND IRON PIPE W/ BRASS CAP N:596349.69' E:606402.97' D - FOUND IRON PIPE W/ BRASS CAP N:593708.88' E:606413.64' E - FOUND IRON PIPE W/ BRASS CAP N:591051.64' E:606427.41' F - FOUND BENT IRON PIPE W/ BRASS CAP N:591033.50' E:603813.10' G - FOUND BENT IRON PIPE W/ NO CAP N:591014.52' E:601198.97' H - FOUND IRON PIPE W/ BRASS CAP N:593655.17' E:601188.55'	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. <i>[Signature]</i> 3/16/2021 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. Date of Survey Signature and Seal of Professional Surveyor <i>[Signature]</i> GARRETT J. SMELKER NEW MEXICO 25036 02/25/2021 PROFESSIONAL SURVEYOR Certificate Number
	SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=601458.58 LAT.= 32.62839776° N Y=592397.19 LONG.= 104.13804340° W NEW MEXICO EAST - NAD 27 X=560278.63 LAT.= 32.62828034° N Y=592335.29 LONG.= -104.13753615° W 1381' FSL, 265' FWL - SECTION 25 60' FSL, 265' FWL - LEASE LINE
	FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=601483.75 LAT.= 32.63069212° N Y=593231.94 LONG.= 104.13795665° W NEW MEXICO EAST - NAD 27 X=560303.82 LAT.= 32.63057473° N Y=593170.02 LONG.= -104.13744933° W 2215' FSL, 294' FWL - SECTION 25 426' FNL, 294' FWL - LEASE LINE MD = 7,560.55'



Colgate Energy

Eddy County, NM (N83-NME)

Lady Franklin 25

Lady Franklin 25 State 123H - Slot LF 123H

30-015-46354

123H

Design: 123H

Standard Survey Report

06 February, 2021



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 123H - Slot LF 123H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3336+30 @ 3366.00usft (HP510)
Site:	Lady Franklin 25	MD Reference:	3336+30 @ 3366.00usft (HP510)
Well:	Lady Franklin 25 State 123H	North Reference:	Grid
Wellbore:	123H	Survey Calculation Method:	Minimum Curvature
Design:	123H	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 123H - Slot LF 123H						
Well Position	+N/-S		0.00 usft		Northing:		592,397.19 usft		Latitude:		32.62839775		
	+E/-W		0.00 usft		Easting:		601,458.58 usft		Longitude:		-104.13804340		
Position Uncertainty			0.00 usft		Wellhead Elevation:		usft		Ground Level:		3,336.00 usft		

Wellbore	123H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	1/29/2021	7.19	60.38	47,838.90000000

Design	123H				
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	89.59	

Survey Program	Date	2/6/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	12,473.00	Survey #1 - Gordon MWD (123H)	MWD+IFR1+SAG+FDIR (SQ OWSG MWD + IFR1 + Sag + FDIR Correction		
12,473.00	12,533.00	Survey #2 - PTB (123H)	MWD+IFR1+SAG+FDIR (SQ OWSG MWD + IFR1 + Sag + FDIR Correction		

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
00-LF25- 0 XYZ 123H-									
200.00	0.56	342.72	200.00	0.93	-0.29	-0.28	0.28	0.28	0.00
271.00	1.14	3.19	270.99	1.97	-0.35	-0.34	0.91	0.82	28.83
427.00	1.86	354.02	426.93	6.04	-0.53	-0.49	0.49	0.46	-5.88
521.00	2.35	336.03	520.87	9.32	-1.47	-1.41	0.87	0.52	-19.14
636.00	2.25	337.30	635.78	13.55	-3.30	-3.21	0.10	-0.09	1.10
730.00	2.42	357.04	729.70	17.24	-4.12	-3.99	0.87	0.18	21.00
825.00	2.58	355.00	824.61	21.37	-4.41	-4.25	0.19	0.17	-2.15
919.00	3.74	350.32	918.47	26.50	-5.11	-4.92	1.26	1.23	-4.98



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 123H - Slot LF 123H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3336+30 @ 3366.00usft (HP510)
Site:	Lady Franklin 25	MD Reference:	3336+30 @ 3366.00usft (HP510)
Well:	Lady Franklin 25 State 123H	North Reference:	Grid
Wellbore:	123H	Survey Calculation Method:	Minimum Curvature
Design:	123H	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)
1,014.00	5.74	350.60	1,013.14	34.24	-6.40	-6.16	2.11	2.11	0.29
1,108.00	5.20	348.22	1,106.71	43.05	-8.04	-7.73	0.62	-0.57	-2.53
1,203.00	5.24	346.97	1,201.32	51.49	-9.90	-9.53	0.13	0.04	-1.32
1,297.00	5.34	343.20	1,294.92	59.86	-12.13	-11.70	0.38	0.11	-4.01
1,391.00	8.06	344.16	1,388.27	70.39	-15.19	-14.69	2.90	2.89	1.02
1,486.00	8.08	343.69	1,482.32	83.20	-18.89	-18.29	0.07	0.02	-0.49
1,580.00	8.26	341.95	1,575.37	95.96	-22.83	-22.15	0.33	0.19	-1.85
1,675.00	8.47	341.79	1,669.36	109.10	-27.13	-26.35	0.22	0.22	-0.17
1,769.00	9.01	341.30	1,762.27	122.65	-31.66	-30.78	0.58	0.57	-0.52
1,864.00	9.17	341.31	1,856.07	136.86	-36.47	-35.49	0.17	0.17	0.01
1,958.00	9.46	340.36	1,948.84	151.23	-41.47	-40.38	0.35	0.31	-1.01
2,053.00	9.77	338.70	2,042.50	166.10	-47.02	-45.83	0.44	0.33	-1.75
2,147.00	9.88	340.21	2,135.12	181.11	-52.64	-51.35	0.30	0.12	1.61
2,242.00	9.76	350.31	2,228.74	196.72	-56.76	-55.35	1.82	-0.13	10.63
2,336.00	10.17	347.26	2,321.32	212.67	-59.93	-58.41	0.71	0.44	-3.24
2,431.00	10.99	347.54	2,414.70	229.69	-63.73	-62.09	0.86	0.86	0.29
2,525.00	10.99	349.40	2,506.98	247.25	-67.32	-65.55	0.38	0.00	1.98
2,620.00	10.20	354.72	2,600.36	264.53	-69.76	-67.86	1.32	-0.83	5.60
2,714.00	11.42	353.10	2,692.69	282.05	-71.64	-69.62	1.34	1.30	-1.72
2,808.00	12.05	353.26	2,784.73	301.04	-73.91	-71.75	0.67	0.67	0.17
2,903.00	12.82	353.19	2,877.50	321.35	-76.32	-74.02	0.81	0.81	-0.07
2,949.00	13.27	353.73	2,922.31	331.67	-77.50	-75.13	1.01	0.98	1.17
3,066.00	13.33	353.55	3,036.17	358.42	-80.49	-77.92	0.06	0.05	-0.15
3,161.00	13.25	351.62	3,128.63	380.07	-83.30	-80.58	0.47	-0.08	-2.03
3,255.00	12.94	348.96	3,220.19	401.06	-86.89	-84.02	0.72	-0.33	-2.83
3,350.00	12.64	345.10	3,312.83	421.54	-91.60	-88.58	0.95	-0.32	-4.06
3,444.00	9.29	350.24	3,405.10	438.96	-95.53	-92.39	3.71	-3.56	5.47
3,539.00	8.99	345.97	3,498.90	453.72	-98.63	-95.38	0.78	-0.32	-4.49
3,633.00	8.57	342.05	3,591.80	467.51	-102.57	-99.22	0.78	-0.45	-4.17
3,727.00	8.04	337.64	3,684.81	480.25	-107.23	-103.79	0.88	-0.56	-4.69
3,822.00	7.88	4.05	3,778.93	492.90	-109.30	-105.77	3.82	-0.17	27.80
3,916.00	7.74	357.19	3,872.06	505.65	-109.15	-105.53	1.00	-0.15	-7.30
4,011.00	7.51	356.54	3,966.22	518.23	-109.84	-106.13	0.26	-0.24	-0.68
4,105.00	7.32	350.69	4,059.43	530.27	-111.18	-107.38	0.83	-0.20	-6.22
4,200.00	7.04	348.77	4,153.69	541.96	-113.29	-109.41	0.39	-0.29	-2.02
4,294.00	6.74	346.76	4,247.01	552.98	-115.68	-111.72	0.41	-0.32	-2.14
4,388.00	6.59	346.85	4,340.37	563.60	-118.17	-114.13	0.16	-0.16	0.10
4,483.00	6.32	347.59	4,434.77	574.01	-120.53	-116.42	0.30	-0.28	0.78
4,578.00	5.96	350.17	4,529.23	583.98	-122.50	-118.32	0.48	-0.38	2.72
4,672.00	6.01	350.59	4,622.71	593.64	-124.14	-119.88	0.07	0.05	0.45
4,767.00	6.42	351.21	4,717.16	603.80	-125.76	-121.44	0.44	0.43	0.65
4,862.00	6.75	352.65	4,811.53	614.58	-127.29	-122.88	0.39	0.35	1.52
4,956.00	6.94	347.88	4,904.86	625.62	-129.19	-124.70	0.64	0.20	-5.07



Survey Report

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Site:	Lady Franklin 25	MD Reference:	3336+30 @ 3366.00usft (HP510)
Well:	Lady Franklin 25 State 123H	North Reference:	Grid
Wellbore:	123H	Survey Calculation Method:	Minimum Curvature
Design:	123H	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	6.58	343.84	4,999.20	636.46	-131.91	-127.35	0.63	-0.38	-4.25
5,145.00	6.59	344.18	5,092.58	646.82	-134.87	-130.24	0.04	0.01	0.36
5,240.00	7.01	344.98	5,186.91	657.66	-137.86	-133.15	0.45	0.44	0.84
5,335.00	6.90	345.50	5,281.21	668.79	-140.79	-136.00	0.13	-0.12	0.55
5,429.00	7.40	343.55	5,374.48	680.06	-143.92	-139.05	0.59	0.53	-2.07
5,524.00	7.43	342.23	5,468.69	691.77	-147.53	-142.58	0.18	0.03	-1.39
5,618.00	7.25	340.02	5,561.92	703.14	-151.41	-146.38	0.36	-0.19	-2.35
5,713.00	5.17	352.37	5,656.36	713.01	-154.03	-148.92	2.59	-2.19	13.00
5,807.00	5.07	348.71	5,749.98	721.29	-155.40	-150.24	0.36	-0.11	-3.89
5,902.00	5.30	341.35	5,844.60	729.56	-157.63	-152.40	0.74	0.24	-7.75
5,996.00	5.23	335.05	5,938.20	737.56	-160.82	-155.54	0.62	-0.07	-6.70
6,090.00	4.36	330.73	6,031.87	744.56	-164.38	-159.05	1.00	-0.93	-4.60
6,185.00	4.31	356.91	6,126.61	751.27	-166.34	-160.96	2.07	-0.05	27.56
6,279.00	3.83	347.21	6,220.37	757.86	-167.22	-161.79	0.89	-0.51	-10.32
6,373.00	5.74	355.56	6,314.04	765.61	-168.28	-162.80	2.16	2.03	8.88
6,467.00	4.79	351.86	6,407.64	774.18	-169.20	-163.66	1.07	-1.01	-3.94
6,562.00	4.29	348.25	6,502.34	781.59	-170.49	-164.89	0.61	-0.53	-3.80
6,656.00	3.29	359.13	6,596.14	787.73	-171.24	-165.60	1.31	-1.06	11.57
6,671.41	3.23	1.49	6,611.52	788.60	-171.24	-165.59	0.96	-0.40	15.33
LF25-123H-EON									
6,751.00	3.01	14.95	6,691.00	792.86	-170.64	-164.96	0.96	-0.27	16.91
6,845.00	2.91	4.42	6,784.87	797.63	-169.82	-164.11	0.59	-0.11	-11.20
6,940.00	2.52	357.78	6,879.77	802.12	-169.71	-163.97	0.53	-0.41	-6.99
7,056.00	2.66	11.80	6,995.65	807.30	-169.26	-163.48	0.56	0.12	12.09
7,091.04	3.56	45.53	7,030.64	808.86	-168.32	-162.53	5.71	2.57	96.26
100FWL: 7091.04' MD, 7030.64' TVD									
7,116.00	4.64	58.64	7,055.54	809.93	-166.90	-161.10	5.71	4.33	52.51
KOP: 7116.00' MD, -161.10' VS, 7055.54' TVD									
7,151.00	6.39	68.86	7,090.37	811.37	-163.88	-158.07	5.71	4.99	29.21
7,246.00	18.23	83.51	7,183.04	814.97	-144.11	-138.27	12.79	12.46	15.42
7,340.00	26.12	86.43	7,270.02	817.92	-108.79	-102.94	8.47	8.39	3.11
7,435.00	37.57	80.65	7,350.61	823.95	-59.17	-53.27	12.46	12.05	-6.08
7,530.00	43.86	84.50	7,422.59	831.82	2.24	8.20	7.13	6.62	4.05
7,560.55	47.38	83.30	7,443.95	834.15	23.95	29.92	11.86	11.53	-3.92
LF25-123H-FTP									
7,571.82	48.68	82.90	7,451.49	835.15	32.27	38.25	11.86	11.55	-3.61
01-LF25-123H-FTP									
7,624.00	54.73	81.20	7,483.81	840.84	72.80	78.82	11.86	11.59	-3.25
7,667.93	57.73	80.49	7,508.23	846.65	108.86	114.91	6.97	6.84	-1.61
02-LF25-123H-OVS									
7,719.00	61.23	79.73	7,534.16	854.21	152.19	158.30	6.97	6.85	-1.50
7,813.00	58.76	77.32	7,581.16	870.38	231.95	238.17	3.44	-2.63	-2.56
7,815.28	58.84	77.40	7,582.35	870.81	233.85	240.08	4.70	3.59	3.55
50R: 7815.28' MD, 58.84° INC, 7582.35' TVD									
7,908.00	62.21	80.58	7,627.97	886.18	313.07	319.40	4.70	3.63	3.43



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 123H - Slot LF 123H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3336+30 @ 3366.00usft (HP510)
Site:	Lady Franklin 25	MD Reference:	3336+30 @ 3366.00usft (HP510)
Well:	Lady Franklin 25 State 123H	North Reference:	Grid
Wellbore:	123H	Survey Calculation Method:	Minimum Curvature
Design:	123H	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)
7,994.76	73.04	86.31	7,660.97	895.17	392.63	399.03	13.89	12.49	6.60
LF25-123H-LP									
8,003.00	74.08	86.81	7,663.30	895.65	400.52	406.92	13.89	12.60	6.11
8,005.54	74.41	86.92	7,663.99	895.78	402.96	409.36	13.79	13.15	4.31
00-LF25-123H-LP									
8,097.00	86.47	90.69	7,679.15	897.60	492.95	499.36	13.79	13.18	4.12
8,103.00	86.55	90.67	7,679.52	897.53	498.94	505.35	1.45	1.41	-0.35
EOC: 8103.00' MD, 505.35' VS, 7679.52' TVD									
8,192.00	87.81	90.36	7,683.89	896.73	587.82	594.23	1.45	1.41	-0.35
8,286.00	87.82	90.15	7,687.48	896.32	681.75	688.15	0.22	0.01	-0.22
8,381.00	88.04	89.98	7,690.91	896.21	776.69	783.09	0.29	0.23	-0.18
8,475.00	88.21	89.31	7,693.98	896.79	870.64	877.03	0.73	0.18	-0.71
8,570.00	88.01	88.99	7,697.12	898.20	965.58	971.98	0.40	-0.21	-0.34
8,664.00	89.69	87.75	7,699.00	900.87	1,059.51	1,065.93	2.22	1.79	-1.32
8,759.00	90.22	87.13	7,699.08	905.12	1,154.42	1,160.87	0.86	0.56	-0.65
8,853.00	90.74	86.91	7,698.29	910.00	1,248.29	1,254.77	0.60	0.55	-0.23
8,948.00	90.73	86.58	7,697.07	915.40	1,343.13	1,349.64	0.35	-0.01	-0.35
9,042.00	90.84	86.67	7,695.79	920.93	1,436.96	1,443.51	0.15	0.12	0.10
9,137.00	91.37	86.30	7,693.95	926.75	1,531.76	1,538.35	0.68	0.56	-0.39
9,231.00	90.00	86.39	7,692.83	932.74	1,625.56	1,632.19	1.46	-1.46	0.10
9,326.00	89.23	88.85	7,693.47	936.69	1,720.47	1,727.12	2.71	-0.81	2.59
9,420.00	90.11	88.79	7,694.01	938.63	1,814.44	1,821.11	0.94	0.94	-0.06
9,514.00	90.83	88.57	7,693.24	940.79	1,908.42	1,915.10	0.80	0.77	-0.23
9,609.00	90.24	90.97	7,692.35	941.17	2,003.40	2,010.09	2.60	-0.62	2.53
9,703.00	90.66	91.34	7,691.61	939.28	2,097.38	2,104.05	0.60	0.45	0.39
9,797.00	90.56	91.83	7,690.61	936.68	2,191.34	2,197.99	0.53	-0.11	0.52
9,892.00	89.05	91.36	7,690.94	934.03	2,286.30	2,292.92	1.66	-1.59	-0.49
9,987.00	89.64	91.42	7,692.02	931.73	2,381.26	2,387.87	0.62	0.62	0.06
10,081.00	88.38	91.14	7,693.65	929.63	2,475.22	2,481.81	1.37	-1.34	-0.30
10,099.21	88.40	91.05	7,694.16	929.28	2,493.43	2,500.01	0.52	0.11	-0.51
03-LF25-123H-2500VS									
10,176.00	88.48	90.66	7,696.25	928.14	2,570.18	2,576.75	0.52	0.11	-0.51
10,271.00	88.94	90.72	7,698.39	926.99	2,665.15	2,671.71	0.49	0.48	0.06
10,365.00	89.40	90.87	7,699.75	925.69	2,759.13	2,765.68	0.51	0.49	0.16
10,460.00	90.04	90.79	7,700.21	924.31	2,854.11	2,860.66	0.68	0.67	-0.08
10,554.00	90.21	90.72	7,700.01	923.07	2,948.11	2,954.64	0.20	0.18	-0.07
10,648.00	90.59	90.86	7,699.35	921.78	3,042.09	3,048.61	0.43	0.40	0.15
10,743.00	91.14	90.79	7,697.92	920.41	3,137.07	3,143.58	0.58	0.58	-0.07
10,838.00	91.61	90.41	7,695.64	919.42	3,232.04	3,238.54	0.64	0.49	-0.40
10,932.00	89.50	88.09	7,694.73	920.65	3,326.02	3,332.52	3.34	-2.24	-2.47
11,027.00	88.99	88.06	7,695.98	923.84	3,420.95	3,427.48	0.54	-0.54	-0.03
11,121.00	86.72	86.53	7,699.50	928.27	3,514.78	3,521.33	2.91	-2.41	-1.63
11,216.00	86.88	86.53	7,704.80	934.01	3,609.45	3,616.04	0.17	0.17	0.00
11,310.00	87.68	86.72	7,709.26	939.54	3,703.18	3,709.81	0.87	0.85	0.20



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well Lady Franklin 25 State 123H - Slot LF 123H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3336+30 @ 3366.00usft (HP510)
Site:	Lady Franklin 25	MD Reference:	3336+30 @ 3366.00usft (HP510)
Well:	Lady Franklin 25 State 123H	North Reference:	Grid
Wellbore:	123H	Survey Calculation Method:	Minimum Curvature
Design:	123H	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)
11,404.00	88.37	86.73	7,712.50	944.91	3,796.97	3,803.64	0.73	0.73	0.01
11,498.00	89.05	86.91	7,714.62	950.12	3,890.80	3,897.50	0.75	0.72	0.19
11,593.00	89.63	86.70	7,715.71	955.41	3,985.65	3,992.38	0.65	0.61	-0.22
11,687.00	87.62	88.93	7,717.97	959.00	4,079.54	4,086.30	3.19	-2.14	2.37
11,782.00	87.63	88.93	7,721.90	960.77	4,174.45	4,181.21	0.01	0.01	0.00
11,876.00	88.59	88.50	7,725.00	962.88	4,268.37	4,275.15	1.12	1.02	-0.46
11,971.00	86.07	91.23	7,729.43	963.10	4,363.25	4,370.03	3.91	-2.65	2.87
12,065.00	86.76	91.30	7,735.31	961.03	4,457.04	4,463.81	0.74	0.73	0.07
12,159.00	87.02	91.02	7,740.41	959.13	4,550.88	4,557.63	0.41	0.28	-0.30
12,254.00	86.67	90.87	7,745.64	957.57	4,645.73	4,652.46	0.40	-0.37	-0.16
12,349.00	87.05	90.69	7,750.84	956.27	4,740.58	4,747.30	0.44	0.40	-0.19
12,444.00	87.51	90.21	7,755.35	955.53	4,835.47	4,842.18	0.70	0.48	-0.51
12,460.16	87.45	90.17	7,756.06	955.48	4,851.61	4,858.33	0.45	-0.38	-0.24
LF25-123H-LTP									
12,464.55	87.43	90.16	7,756.25	955.46	4,855.99	4,862.71	0.45	-0.38	-0.24
04-LF25-123H-LTP									
12,465.54	87.43	90.16	7,756.30	955.46	4,856.98	4,863.70	0.45	-0.38	-0.24
100FEL: 12465.54' MD, 7756.30' TVD									
12,473.00	87.40	90.14	7,756.64	955.44	4,864.44	4,871.15	0.45	-0.38	-0.24
Final MWD Survey: 12473.00' MD, 87.42°INC, 90.14°AZ									
12,533.00	87.40	90.14	7,759.36	955.29	4,924.37	4,931.08	0.00	0.00	0.00
PTB: 12533.00' MD, 87.42°INC, 90.14°AZ - LF25-123H-PBHL - 06-LF25-123H-5000VS - 05-LF25-123H-PBHL									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,091.04	7,030.64	808.86	-168.32	100FWL: 7091.04' MD, 7030.64' TVD
7,116.00	7,055.54	809.93	-166.90	KOP: 7116.00' MD, -161.10' VS, 7055.54' TVD
7,815.28	7,582.35	870.81	233.85	50R: 7815.28' MD, 58.84° INC, 7582.35' TVD
8,103.00	7,679.52	897.53	498.94	EOC: 8103.00' MD, 505.35' VS, 7679.52' TVD
12,465.54	7,756.30	955.46	4,856.98	100FEL: 12465.54' MD, 7756.30' TVD
12,473.00	7,756.64	955.44	4,864.44	Final MWD Survey: 12473.00' MD, 87.42°INC, 90.14°AZ
12,533.00	7,759.36	955.29	4,924.37	PTB: 12533.00' MD, 87.42°INC, 90.14°AZ

Checked By: _____	Approved By: _____	Date: _____
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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. 30-015-46354
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 123H
9. OGRID Number 371449
10. Pool name or Wildcat Winchester; Bone Spring
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3335 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: L 1381 feet from the South 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: ☐

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:

3/16/2021- Pressured up casing to 7,000 psi with a 30 minute test

3/23/2021- Perf and frac stages 1-24.

Perfs 8,150 – 12,325

Frac with 156,823 bbl liquid and 8,490,020 lbs of proppant

04/13/2021- Drilled out plugs

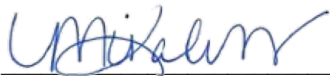
Turn over to production. Tubing 2.875 @ 7,477

TD 12,533 - PBTD 12,434

Spud Date: 01/31/2021

Rig Release Date: 02/06/2021

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: mtthomas@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 <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 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. 30-015-46354		
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.		
5. Lease Name or Unit Agreement Name Lady Franklin 25 State										
6. Well Number: 123H										
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Colgate Operating, LLC						9. OGRID 371449				
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:	L	25	19S	28E		1,381	South	265	West	Eddy
BH:	I	25	19S	28E		2,301	South	33	East	Eddy
13. Date Spudded 01/31/2021	14. Date T.D. Reached 02/05/2021		15. Date Rig Released 02/06/2021			16. Date Completed (Ready to Produce) 04/14/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3,336		
18. Total Measured Depth of Well 12,533			19. Plug Back Measured Depth 12,434			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 8,150-12,325 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		336		17.5		Class C: 414 sx 1.36		
9.625		36		3,022		12.25		Class C: 212 sx 1.33, 489 sx 2.97		
5.5		17		12,518		8.75		Class H: 579 sx 2.71, 899 sx 1.94		
24. LINER RECORD										
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN		25. TUBING RECORD			
							SIZE	DEPTH SET		PACKER SET
26. Perforation record (interval, size, and number) 8,150-12,325 3.0 792 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						8,150-12,325		Total Proppant 8,490,020 – Total Fluid 163,978		
28. PRODUCTION										
Date First Production 04/20/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) Gas Lift					Well Status (Prod. or Shut-in) Producing			
Date of Test 04/28/2021	Hours Tested 24	Choke Size 88/88	Prod'n For Test Period	Oil – Bbl 1,426	Gas – MCF 1,433	Water - Bbl. 1,451	Gas - Oil Ratio 1,005			
Flow Tubing Press. 228	Casing Pressure 1,020	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-103, 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- 100	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt- 355	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt- 602	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates- 1,034	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. DLWR Mnt. Group- 3,106	T. Devonian	T. Cliff House	T. Leadville
T. L Brushy Canyon- 3,443	T. Silurian	T. Menefee	T. Madison
T. BS Lime- 3,776	T. Montoya	T. Point Lookout	T. Elbert
T. 1 st Bone Spring SD- 6,606	T. Simpson	T. Mancos	T. McCracken
T. 2 nd Bone Spring LM- 7,019	T. McKee	T. Gallup	T. Ignacio Otzte
T. 2 nd Bone Spring SD- 7,466	T. Ellenburger	Base Greenhorn	T. Granite
T. 3 rd Bone Spring LM-	T. Gr. Wash	T. Dakota	
T. 3 rd Bone Spring SD-	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. 3, from.....to.....

No. 2, 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 61272

ACKNOWLEDGMENTS

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 61272
	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.

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 61272

CONDITIONS

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 61272
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	12/7/2021