

Intent ☐ As Drilled ☒

API #

Operator Name:	Property Name:	Well Number
COLGATE ENERGY LLC	LADY FRANKLIN 25 STATE	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

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	

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

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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	

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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

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: _____