



Lebsack Oil Production Inc.

Raymond Lease

Raymond Lease - Rice County, KS

Raymond #1-H

Original Well

Design: As Drilled

Standard Survey Report

15 April, 2014



Phoenix Technology Services

Survey Report

Company:	Lebsack Oil Production Inc.	Local Co-ordinate Reference:	Well Raymond #1-H
Project:	Raymond Lease	TVD Reference:	13' RKB - 1719' GL @ 1732.0usft (Sterling Drilling #4)
Site:	Raymond Lease - Rice County, KS	MD Reference:	13' RKB - 1719' GL @ 1732.0usft (Sterling Drilling #4)
Well:	Raymond #1-H	North Reference:	True
Wellbore:	Original Well	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Local database

Project	Raymond Lease		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Kansas Southern Zone		

Site	Raymond Lease - Rice County, KS				
Site Position:		Northing:	1,898,024.67 usft	Latitude:	38° 16' 30.433 N
From:	Lat/Long	Easting:	1,333,994.22 usft	Longitude:	98° 25' 28.363 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	Raymond #1-H					
Well Position	+N/-S	0.0 usft	Northing:	1,898,024.71 usft	Latitude:	38° 16' 30.433 N
	+E/-W	0.0 usft	Easting:	1,334,044.22 usft	Longitude:	98° 25' 27.736 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	1,719.0 usft

Wellbore	Original Well				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	2/26/2014	4.63	66.10	52,276

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	27.72	

Survey Program	Date	4/15/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
2,729.0	4,182.0	Phoenix MWD (Original Well)	MWD	MWD - Standard	

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,729.0	0.00	0.00	2,729.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,751.0	7.50	60.90	2,750.9	0.7	1.3	1.2	34.09	34.09	0.00	0.00
2,781.0	15.70	43.70	2,780.3	4.6	5.8	6.8	29.37	27.33	-57.33	-57.33
2,813.0	22.90	33.60	2,810.5	12.9	12.2	17.1	24.72	22.50	-31.56	-31.56
2,844.0	27.80	30.90	2,838.5	24.2	19.3	30.4	16.24	15.81	-8.71	-8.71
2,876.0	31.80	30.70	2,866.3	37.8	27.4	46.2	12.50	12.50	-0.63	-0.63
2,908.0	35.70	30.40	2,892.9	53.1	36.5	64.0	12.20	12.19	-0.94	-0.94
2,939.0	39.70	28.50	2,917.4	69.6	45.8	82.9	13.44	12.90	-6.13	-6.13



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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)	
2,971.0	43.70	26.80	2,941.3	88.5	55.6	104.2	12.99	12.50	-5.31	
3,003.0	48.10	26.60	2,963.5	109.0	65.9	127.2	13.76	13.75	-0.63	
3,034.0	52.10	27.00	2,983.4	130.2	76.7	151.0	12.94	12.90	1.29	
3,066.0	57.40	26.50	3,001.9	153.6	88.4	177.1	16.61	16.56	-1.56	
3,098.0	62.80	26.90	3,017.8	178.3	100.9	204.8	16.91	16.88	1.25	
3,130.0	67.10	26.90	3,031.4	204.2	114.0	233.8	13.44	13.44	0.00	
3,161.0	71.90	26.20	3,042.2	230.2	127.0	262.8	15.63	15.48	-2.26	
3,192.0	77.00	25.40	3,050.5	257.0	140.0	292.6	16.64	16.45	-2.58	
3,218.6	80.07	23.65	3,055.8	280.7	150.8	318.6	13.23	11.56	-6.58	
Raymond #1-H LP2										
3,224.0	80.70	23.30	3,056.7	285.6	152.9	324.0	13.23	11.58	-6.50	
3,255.0	83.90	22.90	3,060.9	313.9	165.0	354.6	10.40	10.32	-1.29	
3,296.0	88.40	23.20	3,063.6	351.5	181.0	395.4	11.00	10.98	0.73	
3,327.0	89.00	23.40	3,064.3	380.0	193.2	426.3	2.04	1.94	0.65	
3,359.0	89.50	23.40	3,064.8	409.3	205.9	458.2	1.56	1.56	0.00	
3,391.0	87.40	22.70	3,065.6	438.8	218.5	490.0	6.92	-6.56	-2.19	
3,422.0	87.20	22.30	3,067.1	467.4	230.3	520.9	1.44	-0.65	-1.29	
3,454.0	89.00	23.40	3,068.1	496.9	242.7	552.7	6.59	5.63	3.44	
3,485.0	90.20	24.40	3,068.4	525.2	255.3	583.7	5.04	3.87	3.23	
3,517.0	90.80	24.50	3,068.1	554.3	268.5	615.6	1.90	1.88	0.31	
3,548.0	91.50	24.70	3,067.5	582.5	281.4	646.6	2.35	2.26	0.65	
3,580.0	90.60	25.30	3,066.9	611.5	295.0	678.5	3.38	-2.81	1.88	
3,612.0	89.80	24.60	3,066.8	640.5	308.4	710.5	3.32	-2.50	-2.19	
3,644.0	90.20	25.30	3,066.8	669.5	321.9	742.4	2.52	1.25	2.19	
3,675.0	89.90	26.10	3,066.7	697.5	335.4	773.4	2.76	-0.97	2.58	
3,707.0	90.50	27.00	3,066.6	726.1	349.7	805.4	3.38	1.88	2.81	
3,740.0	91.10	27.00	3,066.2	755.5	364.7	838.4	1.82	1.82	0.00	
3,770.0	89.70	26.20	3,066.0	782.3	378.1	868.4	5.37	-4.67	-2.67	
3,802.0	90.20	26.30	3,066.0	811.0	392.3	900.4	1.59	1.56	0.31	
3,834.0	91.50	26.50	3,065.5	839.7	406.5	932.4	4.11	4.06	0.63	
3,865.0	90.50	25.90	3,065.0	867.5	420.2	963.4	3.76	-3.23	-1.94	
3,897.0	89.10	25.60	3,065.1	896.3	434.1	995.3	4.47	-4.38	-0.94	
3,929.0	89.10	26.20	3,065.6	925.1	448.0	1,027.3	1.87	0.00	1.88	
3,960.0	90.10	27.50	3,065.8	952.7	462.0	1,058.3	5.29	3.23	4.19	
3,992.0	89.30	28.10	3,066.0	981.0	477.0	1,090.3	3.12	-2.50	1.88	
4,023.0	88.70	27.30	3,066.5	1,008.5	491.4	1,121.3	3.23	-1.94	-2.58	
4,055.0	88.40	27.50	3,067.3	1,036.9	506.1	1,153.3	1.13	-0.94	0.63	
4,087.0	88.30	27.40	3,068.2	1,065.3	520.8	1,185.3	0.44	-0.31	-0.31	
4,118.0	88.80	26.70	3,069.0	1,092.9	534.9	1,216.3	2.77	1.61	-2.26	
4,151.0	89.80	26.20	3,069.4	1,122.4	549.6	1,249.3	3.39	3.03	-1.52	
4,182.0	90.20	25.60	3,069.4	1,150.3	563.2	1,280.2	2.33	1.29	-1.94	
Raymond #1-H PBHL										



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Checked By: _____ Approved By: _____ Date: _____