

# Condor Energy, Weld County, CO

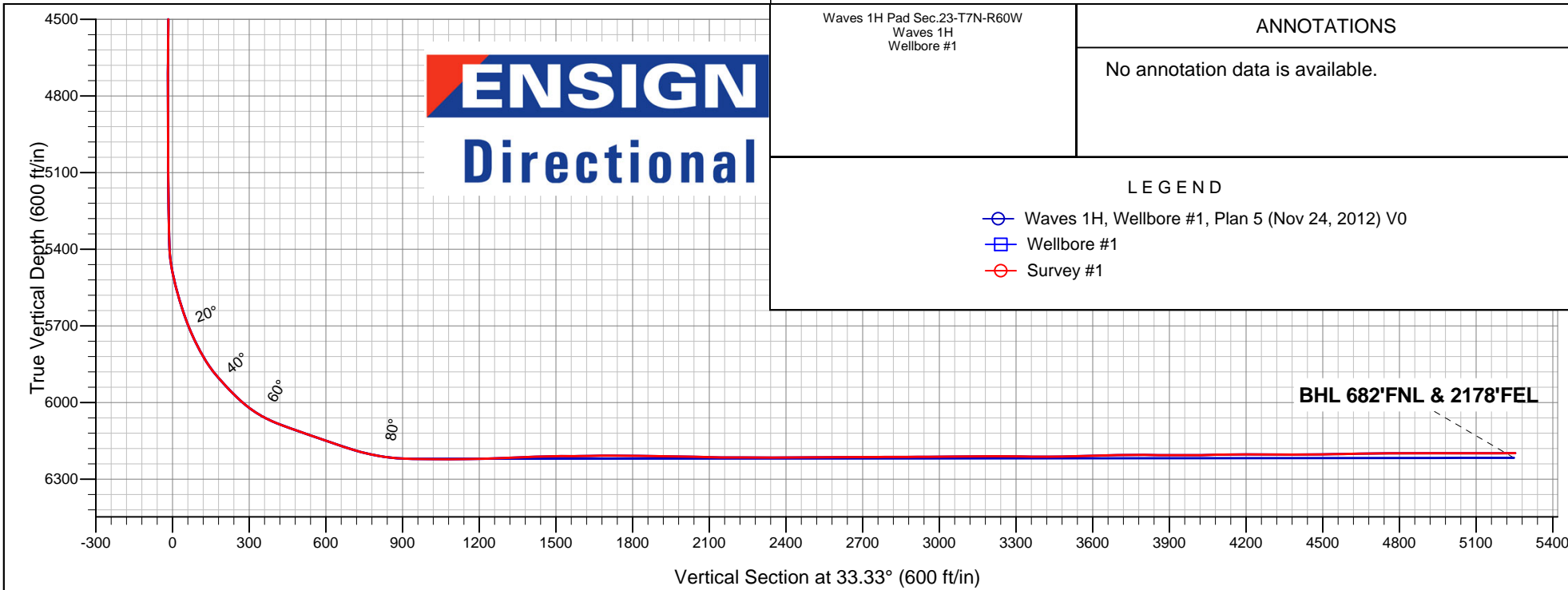
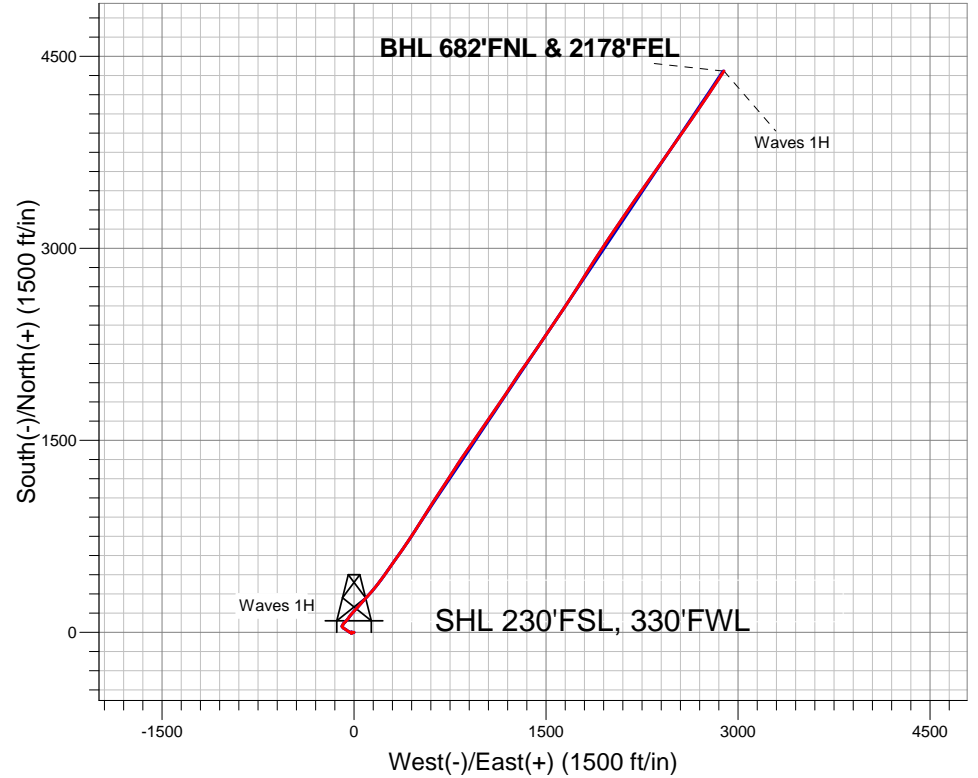
Well Name: **Waves 1H**

Surface Location: Waves 1H Pad Sec.23-T7N-R60W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 4905.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1447886.57	3397653.25	40.554040	-104.068900	
RKB Ensign 136 - 12.5' WELL @ 4917.5ft (RKB Ensign 136 - 12.5')						

## FINAL SURVEY

Projected Bottom Hole Location  
 11,114' MD 6200' TVD 4386' N & 2891' E  
 of SHL  
 90.9 degree Incl @ 33.0 degree AZM



Waves 1H Pad Sec.23-T7N-R60W  
 Waves 1H  
 Wellbore #1

### ANNOTATIONS

No annotation data is available.

### LEGEND

- Waves 1H, Wellbore #1, Plan 5 (Nov 24, 2012) V0
- Wellbore #1
- Survey #1



# Directional

## **Condor Energy, Weld County, CO**

**SEC.23-T7N-R60W**

**Waves 1H Pad Sec.23-T7N-R60W**

**Waves 1H**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**27 November, 2012**

<b>Company:</b>	Condor Energy, Weld County, CO	<b>Local Co-ordinate Reference:</b>	Well Waves 1H
<b>Project:</b>	SEC.23-T7N-R60W	<b>TVD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Site:</b>	Waves 1H Pad Sec.23-T7N-R60W	<b>MD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Well:</b>	Waves 1H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

<b>Project</b>	SEC.23-T7N-R60W, Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

<b>Site</b>	Waves 1H Pad Sec.23-T7N-R60W				
<b>Site Position:</b>		<b>Northing:</b>	1,447,886.58ft	<b>Latitude:</b>	40.554040
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,397,653.25ft	<b>Longitude:</b>	-104.068900
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.92 °

<b>Well</b>	Waves 1H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,447,886.57 ft	<b>Latitude:</b>	40.554040
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,397,653.25 ft	<b>Longitude:</b>	-104.068900
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	4,905.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/12/2012	8.31	67.24	53,135

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>		<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	33.33

<b>Survey Program</b>	<b>Date</b>	11/27/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
115.0	11,114.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
0.5	0.00	241.70	0.5	0.0	0.0	0.0	0.78	0.78	0.00	
<b>SHL 230°FSL &amp; 330°FWL</b>										
115.0	0.90	241.70	115.0	-0.4	-0.8	-0.8	0.78	0.78	0.00	
205.0	0.90	238.10	205.0	-1.1	-2.0	-2.1	0.06	0.00	-4.00	
333.0	1.30	264.20	333.0	-1.8	-4.3	-3.9	0.49	0.31	20.39	
461.0	1.30	255.30	460.9	-2.3	-7.2	-5.9	0.16	0.00	-6.95	
588.0	1.30	256.20	587.9	-3.0	-10.0	-8.0	0.02	0.00	0.71	
715.0	1.10	273.20	714.9	-3.3	-12.6	-9.7	0.32	-0.16	13.39	
842.0	1.10	256.70	841.8	-3.5	-15.0	-11.2	0.25	0.00	-12.99	
974.0	1.50	257.00	973.8	-4.2	-17.9	-13.3	0.30	0.30	0.23	
1,053.0	2.60	254.40	1,052.8	-4.9	-20.6	-15.4	1.40	1.39	-3.29	
1,174.0	0.90	113.10	1,173.7	-6.0	-22.4	-17.3	2.77	-1.40	-116.78	

<b>Company:</b>	Condor Energy, Weld County, CO	<b>Local Co-ordinate Reference:</b>	Well Waves 1H
<b>Project:</b>	SEC.23-T7N-R60W	<b>TVD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Site:</b>	Waves 1H Pad Sec.23-T7N-R60W	<b>MD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Well:</b>	Waves 1H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,295.0	1.10	89.90	1,294.7	-6.4	-20.4	-16.5	0.37	0.17	-19.17	
1,416.0	0.40	101.10	1,415.7	-6.5	-18.8	-15.7	0.59	-0.58	9.26	
1,538.0	0.40	341.20	1,537.7	-6.2	-18.5	-15.3	0.57	0.00	-98.28	
1,659.0	0.30	77.40	1,658.7	-5.7	-18.3	-14.8	0.43	-0.08	79.50	
1,781.0	0.30	151.40	1,780.7	-5.9	-17.9	-14.7	0.30	0.00	60.66	
1,896.0	0.40	0.00	1,895.7	-5.8	-17.7	-14.6	0.59	0.09	-131.65	
2,023.0	1.10	318.60	2,022.7	-4.4	-18.5	-13.9	0.66	0.55	-32.60	
2,150.0	1.10	326.30	2,149.7	-2.5	-20.0	-13.1	0.12	0.00	6.06	
2,277.0	0.70	324.50	2,276.6	-0.8	-21.1	-12.3	0.32	-0.31	-1.42	
2,404.0	1.10	5.50	2,403.6	1.0	-21.5	-11.0	0.58	0.31	32.28	
2,531.0	0.60	48.70	2,530.6	2.7	-20.9	-9.2	0.61	-0.39	34.02	
2,659.0	0.40	140.50	2,658.6	2.8	-20.1	-8.7	0.57	-0.16	71.72	
2,787.0	0.70	49.40	2,786.6	2.9	-19.2	-8.1	0.64	0.23	-71.17	
2,915.0	0.30	155.80	2,914.6	3.1	-18.5	-7.5	0.65	-0.31	83.13	
3,044.0	0.70	104.30	3,043.6	2.6	-17.6	-7.5	0.44	0.31	-39.92	
3,172.0	1.10	128.70	3,171.6	1.7	-15.8	-7.3	0.43	0.31	19.06	
3,300.0	1.70	132.10	3,299.5	-0.4	-13.5	-7.7	0.47	0.47	2.66	
3,429.0	1.40	91.60	3,428.5	-1.7	-10.5	-7.2	0.86	-0.23	-31.40	
3,557.0	1.10	288.30	3,556.5	-1.4	-10.1	-6.7	1.93	-0.23	-127.58	
3,685.0	1.30	300.80	3,684.5	-0.2	-12.5	-7.1	0.26	0.16	9.77	
3,814.0	1.00	251.40	3,813.4	0.2	-14.8	-8.0	0.77	-0.23	-38.29	
3,942.0	2.40	224.20	3,941.4	-2.1	-17.7	-11.5	1.23	1.09	-21.25	
4,070.0	0.40	194.10	4,069.3	-4.5	-19.7	-14.6	1.61	-1.56	-23.52	
4,199.0	0.50	231.70	4,198.3	-5.3	-20.3	-15.5	0.24	0.08	29.15	
4,327.0	1.50	306.40	4,326.3	-4.6	-22.1	-16.0	1.13	0.78	58.36	
4,455.0	1.70	300.60	4,454.3	-2.7	-25.0	-16.0	0.20	0.16	-4.53	
4,583.0	3.50	296.10	4,582.1	0.0	-30.2	-16.6	1.41	1.41	-3.52	
4,712.0	5.80	298.90	4,710.7	4.9	-39.4	-17.6	1.79	1.78	2.17	
4,840.0	7.40	309.60	4,837.8	13.3	-51.4	-17.2	1.57	1.25	8.36	
4,968.0	7.80	299.80	4,964.7	22.9	-65.3	-16.8	1.06	0.31	-7.66	
5,097.0	5.90	304.00	5,092.8	30.9	-78.4	-17.3	1.52	-1.47	3.26	
5,225.0	5.10	321.70	5,220.2	39.1	-87.4	-15.4	1.46	-0.63	13.83	
5,353.0	2.00	315.90	5,348.0	45.1	-92.5	-13.1	2.43	-2.42	-4.53	
5,396.0	2.90	5.50	5,390.9	46.8	-92.9	-12.0	5.14	2.09	115.35	
5,439.0	6.40	27.30	5,433.8	50.0	-91.7	-8.6	8.98	8.14	50.70	
5,481.0	10.10	31.50	5,475.3	55.2	-88.7	-2.6	8.92	8.81	10.00	
5,524.0	13.20	30.30	5,517.4	62.7	-84.3	6.1	7.23	7.21	-2.79	
5,567.0	15.30	39.60	5,559.1	71.3	-78.2	16.6	7.21	4.88	21.63	
5,610.0	16.90	46.80	5,600.4	79.9	-70.0	28.3	5.94	3.72	16.74	
5,652.0	17.90	42.20	5,640.5	88.9	-61.2	40.6	4.05	2.38	-10.95	
5,695.0	20.70	39.10	5,681.1	99.7	-52.0	54.7	6.93	6.51	-7.21	
5,738.0	23.50	37.70	5,720.9	112.4	-41.9	70.8	6.63	6.51	-3.26	
5,781.0	25.90	38.20	5,760.0	126.5	-30.9	88.7	5.60	5.58	1.16	
5,824.0	28.10	38.70	5,798.3	141.8	-18.7	108.2	5.14	5.12	1.16	
5,866.0	31.90	40.30	5,834.7	158.0	-5.4	129.1	9.25	9.05	3.81	
5,909.0	36.80	41.70	5,870.2	176.3	10.6	153.1	11.54	11.40	3.26	
5,952.0	41.20	42.20	5,903.6	196.4	28.6	179.8	10.26	10.23	1.16	
5,995.0	43.20	41.90	5,935.4	217.9	48.0	208.4	4.67	4.65	-0.70	
6,038.0	45.50	40.80	5,966.2	240.4	67.8	238.2	5.64	5.35	-2.56	
6,080.0	48.30	43.50	5,994.9	263.1	88.4	268.4	8.15	6.67	6.43	
6,123.0	53.60	41.90	6,022.0	287.7	111.0	301.4	12.66	12.33	-3.72	
6,166.0	59.20	41.20	6,045.7	314.5	134.8	336.8	13.09	13.02	-1.63	
6,209.0	64.20	40.00	6,066.1	343.2	159.4	374.4	11.88	11.63	-2.79	
6,251.0	68.50	38.20	6,083.0	373.1	183.7	412.6	10.96	10.24	-4.29	

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Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-/S (ft)	+E-/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,294.0	70.20	36.60	6,098.1	405.0	208.1	452.8	5.27	3.95	-3.72	
6,337.0	70.70	34.50	6,112.5	438.0	231.7	493.2	4.75	1.16	-4.88	
6,380.0	70.70	34.70	6,126.7	471.4	254.7	533.8	0.44	0.00	0.47	
6,422.0	71.10	34.90	6,140.5	504.0	277.3	573.5	1.05	0.95	0.48	
6,465.0	71.20	35.60	6,154.4	537.2	300.8	614.2	1.56	0.23	1.63	
6,508.0	71.60	35.40	6,168.1	570.4	324.5	654.9	1.03	0.93	-0.47	
6,551.0	71.90	35.70	6,181.6	603.6	348.2	695.7	0.96	0.70	0.70	
6,594.0	74.90	35.40	6,193.8	637.2	372.2	736.9	7.01	6.98	-0.70	
6,636.0	78.10	35.20	6,203.6	670.5	395.8	777.7	7.63	7.62	-0.48	
6,679.0	80.80	33.30	6,211.5	705.4	419.6	819.9	7.63	6.28	-4.42	
6,722.0	84.50	32.70	6,217.0	741.2	442.8	862.6	8.72	8.60	-1.40	
6,775.0	89.00	32.50	6,220.0	785.8	471.3	915.5	8.50	8.49	-0.38	
6,817.0	88.40	32.40	6,221.0	821.2	493.8	957.5	1.45	-1.43	-0.24	
6,859.0	89.20	32.00	6,221.9	856.7	516.2	999.4	2.13	1.90	-0.95	
6,901.0	89.60	32.00	6,222.3	892.3	538.5	1,041.4	0.95	0.95	0.00	
6,943.0	90.40	32.90	6,222.3	927.8	561.0	1,083.4	2.87	1.90	2.14	
6,986.0	91.10	33.30	6,221.7	963.8	584.5	1,126.4	1.87	1.63	0.93	
7,028.0	91.40	33.30	6,220.8	998.9	607.5	1,168.4	0.71	0.71	0.00	
7,071.0	91.10	32.70	6,219.9	1,034.9	630.9	1,211.4	1.56	-0.70	-1.40	
7,113.0	91.60	33.10	6,218.9	1,070.2	653.8	1,253.4	1.52	1.19	0.95	
7,156.0	91.90	32.60	6,217.6	1,106.3	677.1	1,296.4	1.36	0.70	-1.16	
7,198.0	92.20	32.60	6,216.1	1,141.7	699.7	1,338.3	0.71	0.71	0.00	
7,241.0	92.30	32.20	6,214.4	1,177.9	722.7	1,381.3	0.96	0.23	-0.93	
7,283.0	92.50	33.10	6,212.6	1,213.3	745.3	1,423.3	2.19	0.48	2.14	
7,325.0	92.10	33.10	6,210.9	1,248.4	768.3	1,465.2	0.95	-0.95	0.00	
7,368.0	90.70	32.90	6,209.9	1,284.5	791.7	1,508.2	3.29	-3.26	-0.47	
7,410.0	89.30	33.30	6,209.9	1,319.7	814.6	1,550.2	3.47	-3.33	0.95	
7,452.0	90.50	34.50	6,210.0	1,354.5	838.0	1,592.2	4.04	2.86	2.86	
7,495.0	91.20	34.50	6,209.3	1,390.0	862.4	1,635.2	1.63	1.63	0.00	
7,537.0	90.40	34.10	6,208.7	1,424.7	886.1	1,677.2	2.13	-1.90	-0.95	
7,579.0	89.50	34.30	6,208.8	1,459.4	909.7	1,719.2	2.20	-2.14	0.48	
7,622.0	90.00	35.00	6,209.0	1,494.8	934.1	1,762.2	2.00	1.16	1.63	
7,664.0	90.10	35.40	6,208.9	1,529.1	958.3	1,804.1	0.98	0.24	0.95	
7,707.0	89.20	34.70	6,209.2	1,564.3	983.0	1,847.1	2.65	-2.09	-1.63	
7,749.0	88.90	34.10	6,209.9	1,598.9	1,006.7	1,889.1	1.60	-0.71	-1.43	
7,792.0	89.30	34.50	6,210.6	1,634.5	1,031.0	1,932.1	1.32	0.93	0.93	
7,835.0	88.80	34.30	6,211.3	1,669.9	1,055.3	1,975.1	1.25	-1.16	-0.47	
7,878.0	88.50	34.10	6,212.3	1,705.5	1,079.4	2,018.1	0.84	-0.70	-0.47	
7,921.0	88.30	34.30	6,213.5	1,741.0	1,103.6	2,061.0	0.66	-0.47	0.47	
7,963.0	88.60	34.00	6,214.6	1,775.8	1,127.1	2,103.0	1.01	0.71	-0.71	
8,006.0	89.60	34.30	6,215.3	1,811.4	1,151.3	2,146.0	2.43	2.33	0.70	
8,049.0	90.40	34.30	6,215.3	1,846.9	1,175.5	2,189.0	1.86	1.86	0.00	
8,092.0	90.20	33.80	6,215.1	1,882.5	1,199.6	2,232.0	1.25	-0.47	-1.16	
8,134.0	89.70	33.40	6,215.1	1,917.5	1,222.8	2,274.0	1.52	-1.19	-0.95	
8,177.0	89.60	33.30	6,215.4	1,953.4	1,246.5	2,317.0	0.33	-0.23	-0.23	
8,220.0	89.80	33.10	6,215.6	1,989.4	1,270.0	2,360.0	0.66	0.47	-0.47	
8,263.0	90.50	34.50	6,215.5	2,025.1	1,293.9	2,403.0	3.64	1.63	3.26	
8,306.0	90.20	34.50	6,215.2	2,060.6	1,318.3	2,446.0	0.70	-0.70	0.00	
8,348.0	90.50	35.60	6,215.0	2,094.9	1,342.4	2,488.0	2.71	0.71	2.62	
8,391.0	90.30	35.00	6,214.7	2,130.0	1,367.3	2,530.9	1.47	-0.47	-1.40	
8,434.0	90.20	35.40	6,214.5	2,165.2	1,392.0	2,573.9	0.96	-0.23	0.93	
8,477.0	90.20	35.40	6,214.3	2,200.2	1,417.0	2,616.9	0.00	0.00	0.00	
8,519.0	90.30	34.00	6,214.1	2,234.7	1,440.9	2,658.9	3.34	0.24	-3.33	
8,562.0	90.00	33.60	6,214.0	2,270.5	1,464.8	2,701.9	1.16	-0.70	-0.93	

<b>Company:</b>	Condor Energy, Weld County, CO	<b>Local Co-ordinate Reference:</b>	Well Waves 1H
<b>Project:</b>	SEC.23-T7N-R60W	<b>TVD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Site:</b>	Waves 1H Pad Sec.23-T7N-R60W	<b>MD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Well:</b>	Waves 1H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,605.0	90.50	34.30	6,213.8	2,306.1	1,488.8	2,744.9	2.00	1.16	1.63
8,648.0	90.30	34.30	6,213.5	2,341.7	1,513.0	2,787.9	0.47	-0.47	0.00
8,690.0	90.30	34.10	6,213.3	2,376.4	1,536.6	2,829.9	0.48	0.00	-0.48
8,733.0	90.40	33.60	6,213.1	2,412.1	1,560.6	2,872.9	1.19	0.23	-1.16
8,776.0	90.20	34.30	6,212.8	2,447.8	1,584.6	2,915.8	1.69	-0.47	1.63
8,819.0	90.60	34.30	6,212.5	2,483.3	1,608.8	2,958.8	0.93	0.93	0.00
8,862.0	90.60	33.60	6,212.1	2,519.0	1,632.8	3,001.8	1.63	0.00	-1.63
8,904.0	90.00	32.40	6,211.9	2,554.2	1,655.7	3,043.8	3.19	-1.43	-2.86
8,947.0	90.50	32.90	6,211.7	2,590.4	1,678.9	3,086.8	1.64	1.16	1.16
8,989.0	90.50	32.60	6,211.3	2,625.7	1,701.6	3,128.8	0.71	0.00	-0.71
9,032.0	90.30	32.60	6,211.0	2,661.9	1,724.8	3,171.8	0.47	-0.47	0.00
9,075.0	90.60	32.40	6,210.7	2,698.2	1,747.9	3,214.8	0.84	0.70	-0.47
9,118.0	89.20	31.50	6,210.7	2,734.7	1,770.7	3,257.8	3.87	-3.26	-2.09
9,160.0	88.90	32.00	6,211.4	2,770.4	1,792.8	3,299.8	1.39	-0.71	1.19
9,203.0	89.20	31.90	6,212.2	2,806.9	1,815.5	3,342.8	0.74	0.70	-0.23
9,246.0	90.30	32.00	6,212.3	2,843.4	1,838.3	3,385.7	2.57	2.56	0.23
9,289.0	90.70	32.60	6,212.0	2,879.7	1,861.2	3,428.7	1.68	0.93	1.40
9,332.0	90.80	33.10	6,211.4	2,915.8	1,884.6	3,471.7	1.19	0.23	1.16
9,374.0	90.70	32.70	6,210.9	2,951.1	1,907.4	3,513.7	0.98	-0.24	-0.95
9,417.0	91.10	33.30	6,210.2	2,987.2	1,930.8	3,556.7	1.68	0.93	1.40
9,460.0	92.00	33.40	6,209.0	3,023.1	1,954.4	3,599.7	2.11	2.09	0.23
9,503.0	92.20	34.30	6,207.4	3,058.8	1,978.4	3,642.7	2.14	0.47	2.09
9,546.0	91.60	34.30	6,206.0	3,094.3	2,002.6	3,685.6	1.40	-1.40	0.00
9,588.0	90.30	33.80	6,205.3	3,129.0	2,026.1	3,727.6	3.32	-3.10	-1.19
9,631.0	89.40	33.30	6,205.4	3,164.9	2,049.8	3,770.6	2.39	-2.09	-1.16
9,674.0	89.50	33.80	6,205.8	3,200.7	2,073.6	3,813.6	1.19	0.23	1.16
9,716.0	89.30	33.60	6,206.3	3,235.7	2,096.9	3,856.6	0.67	-0.48	-0.48
9,759.0	90.70	34.30	6,206.3	3,271.3	2,120.9	3,898.6	3.64	3.26	1.63
9,802.0	90.20	34.50	6,205.9	3,306.8	2,145.2	3,941.6	1.25	-1.16	0.47
9,845.0	89.80	34.50	6,205.9	3,342.2	2,169.6	3,984.6	0.93	-0.93	0.00
9,887.0	90.50	35.90	6,205.8	3,376.6	2,193.8	4,026.6	3.73	1.67	3.33
9,930.0	91.30	35.90	6,205.2	3,411.4	2,219.0	4,069.5	1.86	1.86	0.00
9,973.0	91.20	35.90	6,204.2	3,446.2	2,244.2	4,112.5	0.23	-0.23	0.00
10,015.0	90.70	35.20	6,203.5	3,480.4	2,268.6	4,154.4	2.05	-1.19	-1.67
10,058.0	90.00	35.20	6,203.3	3,515.5	2,293.4	4,197.4	1.63	-1.63	0.00
10,101.0	90.20	35.40	6,203.2	3,550.6	2,318.3	4,240.4	0.66	0.47	0.47
10,144.0	89.80	34.90	6,203.2	3,585.8	2,343.0	4,283.4	1.49	-0.93	-1.16
10,186.0	89.20	34.70	6,203.6	3,620.3	2,367.0	4,325.4	1.51	-1.43	-0.48
10,229.0	89.70	35.00	6,204.0	3,655.5	2,391.5	4,368.3	1.36	1.16	0.70
10,272.0	90.20	35.00	6,204.0	3,690.8	2,416.2	4,411.3	1.16	1.16	0.00
10,315.0	90.60	34.70	6,203.7	3,726.0	2,440.8	4,454.3	1.16	0.93	-0.70
10,358.0	90.50	34.70	6,203.3	3,761.4	2,465.3	4,497.3	0.23	-0.23	0.00
10,400.0	90.90	35.00	6,202.8	3,795.9	2,489.3	4,539.3	1.19	0.95	0.71
10,443.0	91.10	35.40	6,202.0	3,831.0	2,514.0	4,582.2	1.04	0.47	0.93
10,486.0	91.20	35.60	6,201.2	3,866.0	2,539.0	4,625.2	0.52	0.23	0.47
10,529.0	91.10	35.00	6,200.3	3,901.1	2,563.8	4,668.2	1.41	-0.23	-1.40
10,571.0	90.80	35.40	6,199.6	3,935.4	2,588.1	4,710.1	1.19	-0.71	0.95
10,614.0	90.70	34.10	6,199.0	3,970.7	2,612.6	4,753.1	3.03	-0.23	-3.02
10,657.0	90.00	34.00	6,198.8	4,006.4	2,636.6	4,796.1	1.64	-1.63	-0.23
10,700.0	89.50	34.00	6,199.0	4,042.0	2,660.7	4,839.1	1.16	-1.16	0.00
10,743.0	90.00	34.30	6,199.2	4,077.6	2,684.8	4,882.1	1.36	1.16	0.70
10,785.0	90.60	34.30	6,198.9	4,112.3	2,708.5	4,924.1	1.43	1.43	0.00
10,828.0	90.00	34.10	6,198.7	4,147.8	2,732.7	4,967.1	1.47	-1.40	-0.47
10,836.1	89.92	34.14	6,198.7	4,154.5	2,737.2	4,975.2	1.04	-0.93	0.47

<b>Company:</b>	Condor Energy, Weld County, CO	<b>Local Co-ordinate Reference:</b>	Well Waves 1H
<b>Project:</b>	SEC.23-T7N-R60W	<b>TVD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Site:</b>	Waves 1H Pad Sec.23-T7N-R60W	<b>MD Reference:</b>	WELL @ 4917.5ft (RKB Ensign 136 - 12.5')
<b>Well:</b>	Waves 1H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
<b>BHL 1010'FNL &amp; 2190'FEL</b>									
10,871.0	89.60	34.30	6,198.9	4,183.4	2,756.8	5,010.1	1.04	-0.93	0.47
10,914.0	90.00	34.10	6,199.0	4,219.0	2,781.0	5,053.1	1.04	0.93	-0.47
10,956.0	90.00	33.60	6,199.0	4,253.9	2,804.4	5,095.1	1.19	0.00	-1.19
10,999.0	90.00	33.40	6,199.0	4,289.7	2,828.1	5,138.1	0.47	0.00	-0.47
11,042.0	90.30	33.30	6,198.9	4,325.6	2,851.8	5,181.1	0.74	0.70	-0.23
11,056.0	90.50	33.10	6,198.8	4,337.3	2,859.4	5,195.1	2.02	1.43	-1.43
11,109.1	90.87	33.01	6,198.2	4,381.8	2,888.4	5,248.2	0.71	0.69	-0.17
<b>BHL R1 683'FEL &amp; 2185' FEL</b>									
11,114.0	90.90	33.00	6,198.1	4,386.0	2,891.1	5,253.1	0.71	0.69	-0.17

Checked By: _____	Approved By: _____	Date: _____
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