

# Condor Energy

Well Name: **Wickstrom 18-1H**

Surface Location: Wickstrom 18-2H Pad Sec.18-T6N-R60W  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

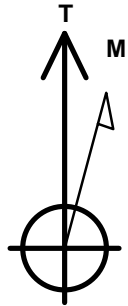
Ground Elevation: 4700.1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1425985.80	3377762.45	40.494790	-104.141680	

Original Well Elev WELL @ 4712.6ft (Original Well Elev)

## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SECTION LINE	-4.9	314.1	1600.0	Polygon
HARDLINE 600' BHL	1.0	10184.4	-1130.4	Polygon
HARDLINE 600' SHL	1.0	912.7	1600.0	Polygon
SHL 313'FNL & 1599'FWL, SEC.18	1.0	0.0	0.0	Point
BHL 660'FNL & 660'FWL, SEC.6	6100.0	10124.5	-1070.4	Point
Landing Pt. 660'FSL & 875'FWL, SEC.7	6100.0	972.7	-737.0	Point



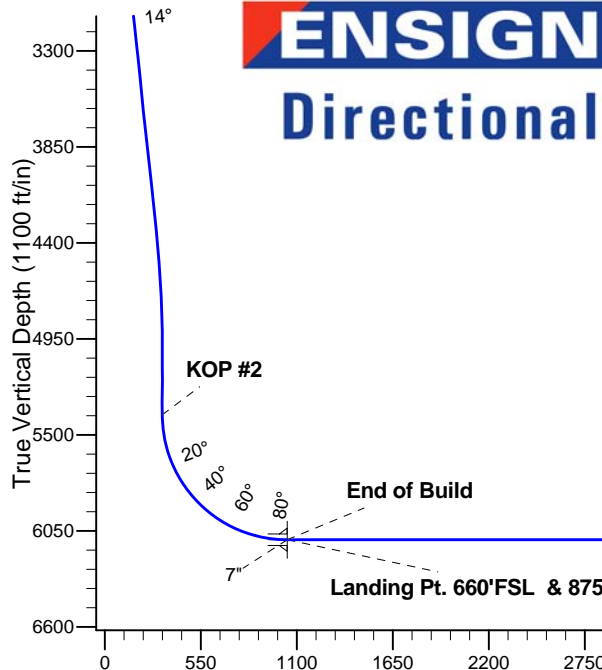
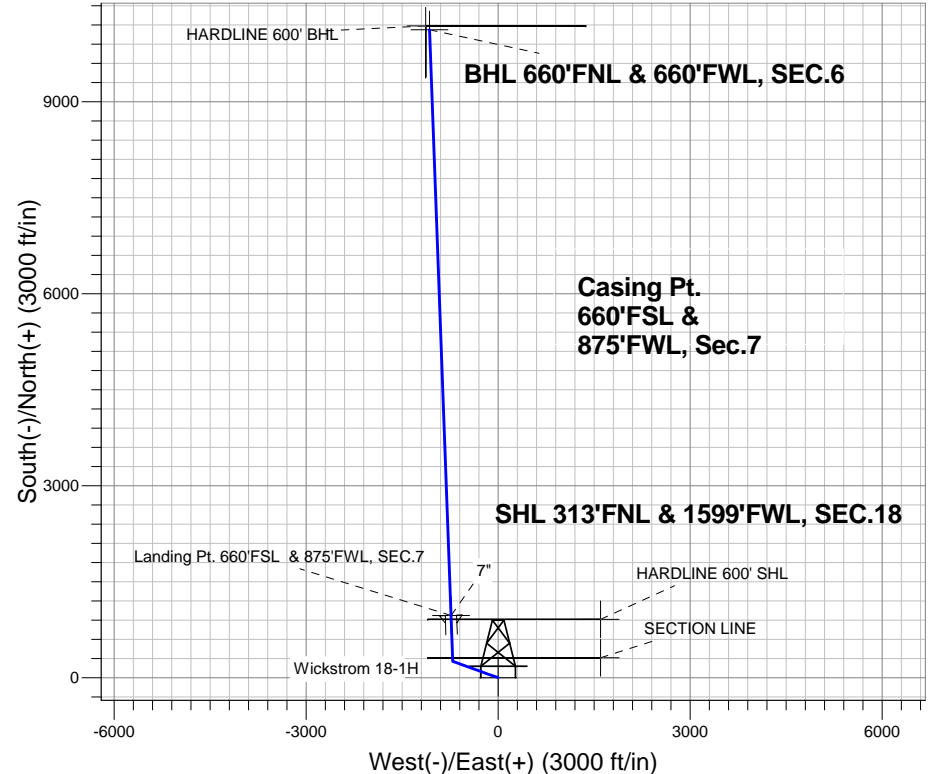
Azimuths to True North  
Magnetic North: 8.25°

Magnetic Field  
Strength: 53024.0snT  
Dip Angle: 67.15°  
Date: 7/25/2013  
Model: IGRF2010

Wickstrom 18-2H Pad Sec.18-T6N-R60W  
Wickstrom 18-1H  
Plan #2 (7-24-13)  
8:19, July 25 2013

## ANNOTATIONS

TVD	MD	Annotation
1200.0	1200.0	KOP #1
5383.9	5467.3	KOP #2
6100.0	6593.2	End of Build



## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1879.8	13.60	289.86	1873.4	27.3	-75.5	2.00	289.86	35.1	
4	4403.6	13.60	289.86	4326.6	228.9	-633.5	0.00	0.00	294.2	
5	5083.4	0.00	0.00	5000.0	256.2	-709.0	2.00	180.00	329.3	
6	5467.3	0.00	0.00	5383.8	256.2	-709.0	0.00	0.00	329.3	
7	6592.3	90.00	357.76	6100.0	971.8	-737.0	8.00	357.76	1043.9	
8	6593.2	90.00	357.76	6100.0	972.7	-737.0	0.00	0.00	1044.8	Landing Pt. 660'FSL & 875'FWL, SEC.7
9	6600.9	90.00	357.91	6100.0	980.4	-737.3	2.00	90.00	1052.5	
10	15751.0	90.00	357.91	6100.0	10124.5	-1070.4	0.00	0.00	10180.9	BHL 660'FNL & 660'FWL, SEC.6

BHL 660'FNL & 660'FWL, SEC.6

Vertical Section at 353.97° (1100 ft/in)



## **Condor Energy**

**SEC.18-T6N-R60W**

**Wickstrom 18-2H Pad Sec.18-T6N-R60W**

**Wickstrom 18-1H**

**Wellbore #1**

**Plan: Plan #2 (7-24-13)**

## **Standard Planning Report**

**25 July, 2013**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Wickstrom 18-1H
<b>Company:</b>	Condor Energy	<b>TVD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Project:</b>	SEC.18-T6N-R60W	<b>MD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Site:</b>	Wickstrom 18-2H Pad Sec.18-T6N-R60W	<b>North Reference:</b>	True
<b>Well:</b>	Wickstrom 18-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (7-24-13)		

<b>Project</b>	SEC.18-T6N-R60W, Morgan 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

Site						Wickstrom 18-2H Pad Sec.18-T6N-R60W											
Site Position:						Northing:			1,426,014.95 ft			Latitude:			40.494870		
From:			Lat/Long			Easting:			3,377,762.01 ft			Longitude:			-104.141680		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.88 °		

Well	Wickstrom 18-1H					
Well Position	+N/-S	-29.2 ft	Northing:	1,425,985.80 ft	Latitude:	40.494790
	+E/-W	0.0 ft	Easting:	3,377,762.45 ft	Longitude:	-104.141680
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,700.1 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	7/25/2013	8.25	67.15	53,024

<b>Design</b>	Plan #2 (7-24-13)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<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	353.97

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,879.8	13.60	289.86	1,873.4	27.3	-75.5	2.00	2.00	0.00	289.86	
4,403.6	13.60	289.86	4,326.6	228.9	-633.5	0.00	0.00	0.00	0.00	
5,083.4	0.00	0.00	5,000.0	256.2	-709.0	2.00	-2.00	0.00	180.00	
5,467.3	0.00	0.00	5,383.8	256.2	-709.0	0.00	0.00	0.00	0.00	
6,592.3	90.00	357.76	6,100.0	971.8	-737.0	8.00	8.00	0.00	357.76	
6,593.2	90.00	357.76	6,100.0	972.7	-737.0	0.00	0.00	0.00	0.00	Landing Pt. 660'FSI
6,600.9	90.00	357.91	6,100.0	980.4	-737.3	2.00	0.00	2.00	90.00	
15,751.0	90.00	357.91	6,100.0	10,124.5	-1,070.4	0.00	0.00	0.00	0.00	BHL 660'FNL & 660'FSI

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Wickstrom 18-1H
<b>Company:</b>	Condor Energy	<b>TVD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Project:</b>	SEC.18-T6N-R60W	<b>MD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Site:</b>	Wickstrom 18-2H Pad Sec.18-T6N-R60W	<b>North Reference:</b>	True
<b>Well:</b>	Wickstrom 18-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (7-24-13)		

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SECTION LINE</b>									
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SHL 313'FNL &amp; 1599'FWL, SEC.18 - HARDLINE 600' SHL</b>									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP #1</b>									
1,300.0	2.00	289.86	1,300.0	0.6	-1.6	0.8	2.00	2.00	0.00
1,400.0	4.00	289.86	1,399.8	2.4	-6.6	3.0	2.00	2.00	0.00
1,500.0	6.00	289.86	1,499.5	5.3	-14.8	6.9	2.00	2.00	0.00
1,600.0	8.00	289.86	1,598.7	9.5	-26.2	12.2	2.00	2.00	0.00
1,700.0	10.00	289.86	1,697.5	14.8	-40.9	19.0	2.00	2.00	0.00
1,800.0	12.00	289.86	1,795.6	21.3	-58.9	27.3	2.00	2.00	0.00
1,879.8	13.60	289.86	1,873.4	27.3	-75.5	35.1	2.00	2.00	0.00
1,900.0	13.60	289.86	1,893.1	28.9	-80.0	37.1	0.00	0.00	0.00
2,000.0	13.60	289.86	1,990.3	36.9	-102.1	47.4	0.00	0.00	0.00
2,100.0	13.60	289.86	2,087.5	44.9	-124.2	57.7	0.00	0.00	0.00
2,200.0	13.60	289.86	2,184.7	52.9	-146.3	67.9	0.00	0.00	0.00
2,300.0	13.60	289.86	2,281.9	60.8	-168.4	78.2	0.00	0.00	0.00
2,400.0	13.60	289.86	2,379.1	68.8	-190.5	88.5	0.00	0.00	0.00
2,500.0	13.60	289.86	2,476.3	76.8	-212.6	98.7	0.00	0.00	0.00
2,600.0	13.60	289.86	2,573.5	84.8	-234.7	109.0	0.00	0.00	0.00
2,700.0	13.60	289.86	2,670.7	92.8	-256.8	119.3	0.00	0.00	0.00
2,800.0	13.60	289.86	2,767.9	100.8	-278.9	129.5	0.00	0.00	0.00
2,900.0	13.60	289.86	2,865.0	108.8	-301.1	139.8	0.00	0.00	0.00
3,000.0	13.60	289.86	2,962.2	116.8	-323.2	150.1	0.00	0.00	0.00
3,100.0	13.60	289.86	3,059.4	124.7	-345.3	160.4	0.00	0.00	0.00
3,200.0	13.60	289.86	3,156.6	132.7	-367.4	170.6	0.00	0.00	0.00
3,300.0	13.60	289.86	3,253.8	140.7	-389.5	180.9	0.00	0.00	0.00
3,400.0	13.60	289.86	3,351.0	148.7	-411.6	191.2	0.00	0.00	0.00
3,500.0	13.60	289.86	3,448.2	156.7	-433.7	201.4	0.00	0.00	0.00
3,600.0	13.60	289.86	3,545.4	164.7	-455.8	211.7	0.00	0.00	0.00
3,700.0	13.60	289.86	3,642.6	172.7	-477.9	222.0	0.00	0.00	0.00
3,800.0	13.60	289.86	3,739.8	180.7	-500.0	232.2	0.00	0.00	0.00
3,900.0	13.60	289.86	3,837.0	188.6	-522.1	242.5	0.00	0.00	0.00
4,000.0	13.60	289.86	3,934.2	196.6	-544.3	252.8	0.00	0.00	0.00
4,100.0	13.60	289.86	4,031.4	204.6	-566.4	263.0	0.00	0.00	0.00
4,200.0	13.60	289.86	4,128.6	212.6	-588.5	273.3	0.00	0.00	0.00
4,300.0	13.60	289.86	4,225.8	220.6	-610.6	283.6	0.00	0.00	0.00
4,400.0	13.60	289.86	4,323.0	228.6	-632.7	293.8	0.00	0.00	0.00
4,403.6	13.60	289.86	4,326.6	228.9	-633.5	294.2	0.00	0.00	0.00
4,500.0	11.67	289.86	4,420.6	236.0	-653.3	303.4	2.00	-2.00	0.00
4,600.0	9.67	289.86	4,518.8	242.3	-670.7	311.5	2.00	-2.00	0.00

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<b>Site:</b>	Wickstrom 18-2H Pad Sec.18-T6N-R60W	<b>North Reference:</b>	True
<b>Well:</b>	Wickstrom 18-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (7-24-13)		

Planned 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)
4,700.0	7.67	289.86	4,617.7	247.4	-684.9	318.1	2.00	-2.00	0.00
4,800.0	5.67	289.86	4,717.0	251.4	-695.8	323.2	2.00	-2.00	0.00
4,900.0	3.67	289.86	4,816.7	254.2	-703.5	326.7	2.00	-2.00	0.00
5,000.0	1.67	289.86	4,916.6	255.7	-707.9	328.7	2.00	-2.00	0.00
5,083.4	0.00	0.00	5,000.0	256.2	-709.0	329.3	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,016.6	256.2	-709.0	329.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,116.6	256.2	-709.0	329.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,216.6	256.2	-709.0	329.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,316.6	256.2	-709.0	329.3	0.00	0.00	0.00
5,467.3	0.00	0.00	5,383.9	256.2	-709.0	329.3	0.00	0.00	0.00
<b>KOP #2</b>									
5,500.0	2.62	357.76	5,416.5	256.9	-709.0	330.0	8.01	8.01	0.00
5,600.0	10.62	357.76	5,515.8	268.4	-709.5	341.5	8.00	8.00	0.00
5,700.0	18.62	357.76	5,612.5	293.6	-710.5	366.7	8.00	8.00	0.00
5,800.0	26.62	357.76	5,704.7	332.0	-712.0	405.0	8.00	8.00	0.00
5,900.0	34.62	357.76	5,790.7	382.9	-714.0	455.8	8.00	8.00	0.00
6,000.0	42.62	357.76	5,868.8	445.2	-716.4	518.0	8.00	8.00	0.00
6,100.0	50.62	357.76	5,937.4	517.8	-719.2	590.5	8.00	8.00	0.00
6,200.0	58.62	357.76	5,995.2	599.2	-722.4	671.8	8.00	8.00	0.00
6,300.0	66.62	357.76	6,041.2	687.8	-725.9	760.3	8.00	8.00	0.00
6,400.0	74.62	357.76	6,074.4	782.0	-729.6	854.4	8.00	8.00	0.00
6,500.0	82.62	357.76	6,094.1	879.9	-733.4	952.1	8.00	8.00	0.00
6,592.3	90.00	357.76	6,100.0	971.8	-737.0	1,043.9	8.00	8.00	0.00
6,593.2	90.00	357.76	6,100.0	972.7	-737.0	1,044.8	0.00	0.00	0.00
<b>End of Build - 7" - Landing Pt. 660'FSL &amp; 875'FWL, SEC.7</b>									
6,600.0	90.00	357.90	6,100.0	979.5	-737.3	1,051.6	2.00	0.00	2.00
6,600.9	90.00	357.91	6,100.0	980.4	-737.3	1,052.5	2.00	0.00	2.00
6,700.0	90.00	357.91	6,100.0	1,079.5	-740.9	1,151.4	0.00	0.00	0.00
6,800.0	90.00	357.91	6,100.0	1,179.4	-744.6	1,251.2	0.00	0.00	0.00
6,900.0	90.00	357.91	6,100.0	1,279.3	-748.2	1,350.9	0.00	0.00	0.00
7,000.0	90.00	357.91	6,100.0	1,379.3	-751.8	1,450.7	0.00	0.00	0.00
7,100.0	90.00	357.91	6,100.0	1,479.2	-755.5	1,550.4	0.00	0.00	0.00
7,200.0	90.00	357.91	6,100.0	1,579.1	-759.1	1,650.2	0.00	0.00	0.00
7,300.0	90.00	357.91	6,100.0	1,679.1	-762.8	1,750.0	0.00	0.00	0.00
7,400.0	90.00	357.91	6,100.0	1,779.0	-766.4	1,849.7	0.00	0.00	0.00
7,500.0	90.00	357.91	6,100.0	1,879.0	-770.0	1,949.5	0.00	0.00	0.00
7,600.0	90.00	357.91	6,100.0	1,978.9	-773.7	2,049.3	0.00	0.00	0.00
7,700.0	90.00	357.91	6,100.0	2,078.8	-777.3	2,149.0	0.00	0.00	0.00
7,800.0	90.00	357.91	6,100.0	2,178.8	-781.0	2,248.8	0.00	0.00	0.00
7,900.0	90.00	357.91	6,100.0	2,278.7	-784.6	2,348.5	0.00	0.00	0.00
8,000.0	90.00	357.91	6,100.0	2,378.6	-788.2	2,448.3	0.00	0.00	0.00
8,100.0	90.00	357.91	6,100.0	2,478.6	-791.9	2,548.1	0.00	0.00	0.00
8,200.0	90.00	357.91	6,100.0	2,578.5	-795.5	2,647.8	0.00	0.00	0.00
8,300.0	90.00	357.91	6,100.0	2,678.4	-799.2	2,747.6	0.00	0.00	0.00
8,400.0	90.00	357.91	6,100.0	2,778.4	-802.8	2,847.4	0.00	0.00	0.00
8,500.0	90.00	357.91	6,100.0	2,878.3	-806.4	2,947.1	0.00	0.00	0.00
8,600.0	90.00	357.91	6,100.0	2,978.2	-810.1	3,046.9	0.00	0.00	0.00
8,700.0	90.00	357.91	6,100.0	3,078.2	-813.7	3,146.6	0.00	0.00	0.00
8,800.0	90.00	357.91	6,100.0	3,178.1	-817.4	3,246.4	0.00	0.00	0.00
8,900.0	90.00	357.91	6,100.0	3,278.0	-821.0	3,346.2	0.00	0.00	0.00
9,000.0	90.00	357.91	6,100.0	3,378.0	-824.6	3,445.9	0.00	0.00	0.00
9,100.0	90.00	357.91	6,100.0	3,477.9	-828.3	3,545.7	0.00	0.00	0.00
9,200.0	90.00	357.91	6,100.0	3,577.8	-831.9	3,645.5	0.00	0.00	0.00
9,300.0	90.00	357.91	6,100.0	3,677.8	-835.6	3,745.2	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Wickstrom 18-1H
<b>Company:</b>	Condor Energy	<b>TVD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Project:</b>	SEC.18-T6N-R60W	<b>MD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Site:</b>	Wickstrom 18-2H Pad Sec.18-T6N-R60W	<b>North Reference:</b>	True
<b>Well:</b>	Wickstrom 18-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (7-24-13)		

Planned 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)
9,400.0	90.00	357.91	6,100.0	3,777.7	-839.2	3,845.0	0.00	0.00	0.00
9,500.0	90.00	357.91	6,100.0	3,877.6	-842.8	3,944.7	0.00	0.00	0.00
9,600.0	90.00	357.91	6,100.0	3,977.6	-846.5	4,044.5	0.00	0.00	0.00
9,700.0	90.00	357.91	6,100.0	4,077.5	-850.1	4,144.3	0.00	0.00	0.00
9,800.0	90.00	357.91	6,100.0	4,177.4	-853.8	4,244.0	0.00	0.00	0.00
9,900.0	90.00	357.91	6,100.0	4,277.4	-857.4	4,343.8	0.00	0.00	0.00
10,000.0	90.00	357.91	6,100.0	4,377.3	-861.0	4,443.6	0.00	0.00	0.00
10,100.0	90.00	357.91	6,100.0	4,477.2	-864.7	4,543.3	0.00	0.00	0.00
10,200.0	90.00	357.91	6,100.0	4,577.2	-868.3	4,643.1	0.00	0.00	0.00
10,300.0	90.00	357.91	6,100.0	4,677.1	-872.0	4,742.8	0.00	0.00	0.00
10,400.0	90.00	357.91	6,100.0	4,777.0	-875.6	4,842.6	0.00	0.00	0.00
10,500.0	90.00	357.91	6,100.0	4,877.0	-879.2	4,942.4	0.00	0.00	0.00
10,600.0	90.00	357.91	6,100.0	4,976.9	-882.9	5,042.1	0.00	0.00	0.00
10,700.0	90.00	357.91	6,100.0	5,076.8	-886.5	5,141.9	0.00	0.00	0.00
10,800.0	90.00	357.91	6,100.0	5,176.8	-890.2	5,241.7	0.00	0.00	0.00
10,900.0	90.00	357.91	6,100.0	5,276.7	-893.8	5,341.4	0.00	0.00	0.00
11,000.0	90.00	357.91	6,100.0	5,376.6	-897.4	5,441.2	0.00	0.00	0.00
11,100.0	90.00	357.91	6,100.0	5,476.6	-901.1	5,540.9	0.00	0.00	0.00
11,200.0	90.00	357.91	6,100.0	5,576.5	-904.7	5,640.7	0.00	0.00	0.00
11,300.0	90.00	357.91	6,100.0	5,676.4	-908.4	5,740.5	0.00	0.00	0.00
11,400.0	90.00	357.91	6,100.0	5,776.4	-912.0	5,840.2	0.00	0.00	0.00
11,500.0	90.00	357.91	6,100.0	5,876.3	-915.6	5,940.0	0.00	0.00	0.00
11,600.0	90.00	357.91	6,100.0	5,976.2	-919.3	6,039.8	0.00	0.00	0.00
11,700.0	90.00	357.91	6,100.0	6,076.2	-922.9	6,139.5	0.00	0.00	0.00
11,800.0	90.00	357.91	6,100.0	6,176.1	-926.6	6,239.3	0.00	0.00	0.00
11,900.0	90.00	357.91	6,100.0	6,276.0	-930.2	6,339.0	0.00	0.00	0.00
12,000.0	90.00	357.91	6,100.0	6,376.0	-933.8	6,438.8	0.00	0.00	0.00
12,100.0	90.00	357.91	6,100.0	6,475.9	-937.5	6,538.6	0.00	0.00	0.00
12,200.0	90.00	357.91	6,100.0	6,575.8	-941.1	6,638.3	0.00	0.00	0.00
12,300.0	90.00	357.91	6,100.0	6,675.8	-944.8	6,738.1	0.00	0.00	0.00
12,400.0	90.00	357.91	6,100.0	6,775.7	-948.4	6,837.9	0.00	0.00	0.00
12,500.0	90.00	357.91	6,100.0	6,875.6	-952.0	6,937.6	0.00	0.00	0.00
12,600.0	90.00	357.91	6,100.0	6,975.6	-955.7	7,037.4	0.00	0.00	0.00
12,700.0	90.00	357.91	6,100.0	7,075.5	-959.3	7,137.1	0.00	0.00	0.00
12,800.0	90.00	357.91	6,100.0	7,175.4	-963.0	7,236.9	0.00	0.00	0.00
12,900.0	90.00	357.91	6,100.0	7,275.4	-966.6	7,336.7	0.00	0.00	0.00
13,000.0	90.00	357.91	6,100.0	7,375.3	-970.2	7,436.4	0.00	0.00	0.00
13,100.0	90.00	357.91	6,100.0	7,475.2	-973.9	7,536.2	0.00	0.00	0.00
13,200.0	90.00	357.91	6,100.0	7,575.2	-977.5	7,636.0	0.00	0.00	0.00
13,300.0	90.00	357.91	6,100.0	7,675.1	-981.2	7,735.7	0.00	0.00	0.00
13,400.0	90.00	357.91	6,100.0	7,775.0	-984.8	7,835.5	0.00	0.00	0.00
13,500.0	90.00	357.91	6,100.0	7,875.0	-988.4	7,935.2	0.00	0.00	0.00
13,600.0	90.00	357.91	6,100.0	7,974.9	-992.1	8,035.0	0.00	0.00	0.00
13,700.0	90.00	357.91	6,100.0	8,074.8	-995.7	8,134.8	0.00	0.00	0.00
13,800.0	90.00	357.91	6,100.0	8,174.8	-999.4	8,234.5	0.00	0.00	0.00
13,900.0	90.00	357.91	6,100.0	8,274.7	-1,003.0	8,334.3	0.00	0.00	0.00
14,000.0	90.00	357.91	6,100.0	8,374.6	-1,006.6	8,434.1	0.00	0.00	0.00
14,100.0	90.00	357.91	6,100.0	8,474.6	-1,010.3	8,533.8	0.00	0.00	0.00
14,200.0	90.00	357.91	6,100.0	8,574.5	-1,013.9	8,633.6	0.00	0.00	0.00
14,300.0	90.00	357.91	6,100.0	8,674.4	-1,017.5	8,733.4	0.00	0.00	0.00
14,400.0	90.00	357.91	6,100.0	8,774.4	-1,021.2	8,833.1	0.00	0.00	0.00
14,500.0	90.00	357.91	6,100.0	8,874.3	-1,024.8	8,932.9	0.00	0.00	0.00
14,600.0	90.00	357.91	6,100.0	8,974.2	-1,028.5	9,032.6	0.00	0.00	0.00
14,700.0	90.00	357.91	6,100.0	9,074.2	-1,032.1	9,132.4	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Wickstrom 18-1H
<b>Company:</b>	Condor Energy	<b>TVD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Project:</b>	SEC.18-T6N-R60W	<b>MD Reference:</b>	WELL @ 4712.6ft (Original Well Elev)
<b>Site:</b>	Wickstrom 18-2H Pad Sec.18-T6N-R60W	<b>North Reference:</b>	True
<b>Well:</b>	Wickstrom 18-1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (7-24-13)		

Planned 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)	
14,800.0	90.00	357.91	6,100.0	9,174.1	-1,035.7	9,232.2	0.00	0.00	0.00	
14,900.0	90.00	357.91	6,100.0	9,274.0	-1,039.4	9,331.9	0.00	0.00	0.00	
15,000.0	90.00	357.91	6,100.0	9,374.0	-1,043.0	9,431.7	0.00	0.00	0.00	
15,100.0	90.00	357.91	6,100.0	9,473.9	-1,046.7	9,531.5	0.00	0.00	0.00	
15,200.0	90.00	357.91	6,100.0	9,573.8	-1,050.3	9,631.2	0.00	0.00	0.00	
15,300.0	90.00	357.91	6,100.0	9,673.8	-1,053.9	9,731.0	0.00	0.00	0.00	
15,400.0	90.00	357.91	6,100.0	9,773.7	-1,057.6	9,830.7	0.00	0.00	0.00	
15,500.0	90.00	357.91	6,100.0	9,873.6	-1,061.2	9,930.5	0.00	0.00	0.00	
15,600.0	90.00	357.91	6,100.0	9,973.6	-1,064.9	10,030.3	0.00	0.00	0.00	
15,700.0	90.00	357.91	6,100.0	10,073.5	-1,068.5	10,130.0	0.00	0.00	0.00	
15,751.0	90.00	357.91	6,100.0	10,124.5	-1,070.4	10,180.9	0.00	0.00	0.00	
HARDLINE 600' BHL - BHL 660'FNL & 660'FWL, SEC.6										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
6,593.2	6,100.0	7"		7	7-1/2

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,200.0	1,200.0	0.0	0.0	KOP #1	
5,467.3	5,383.9	256.2	-709.0	KOP #2	
6,593.2	6,100.0	972.8	-737.0	End of Build	