

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

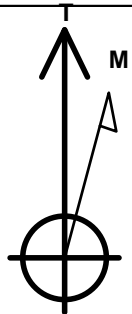
Ground Elevation: 4700.1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1426029.51	3377761.78	40.494910	-104.141680	

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

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINE 600' BHL	1.0	10140.7	-1130.4	Polygon
HARDLINE 600' SHL	1.0	869.0	600.0	Polygon
SHL 270'FNL & 1600'FWL, SEC.18	1.0	0.0	0.0	Point
SECTION LINE	1.1	270.4	600.0	Polygon
WP1	6097.0	4662.0	-530.0	Point
Landing Pt. 660'FSL & 1513'FWL, SEC.7	6103.0	929.0	-100.1	Point
WP2	6129.0	8452.0	-930.0	Point
BHL 660'FNL & 660'FWL, SEC.6	6134.0	10080.7	-1070.4	Point



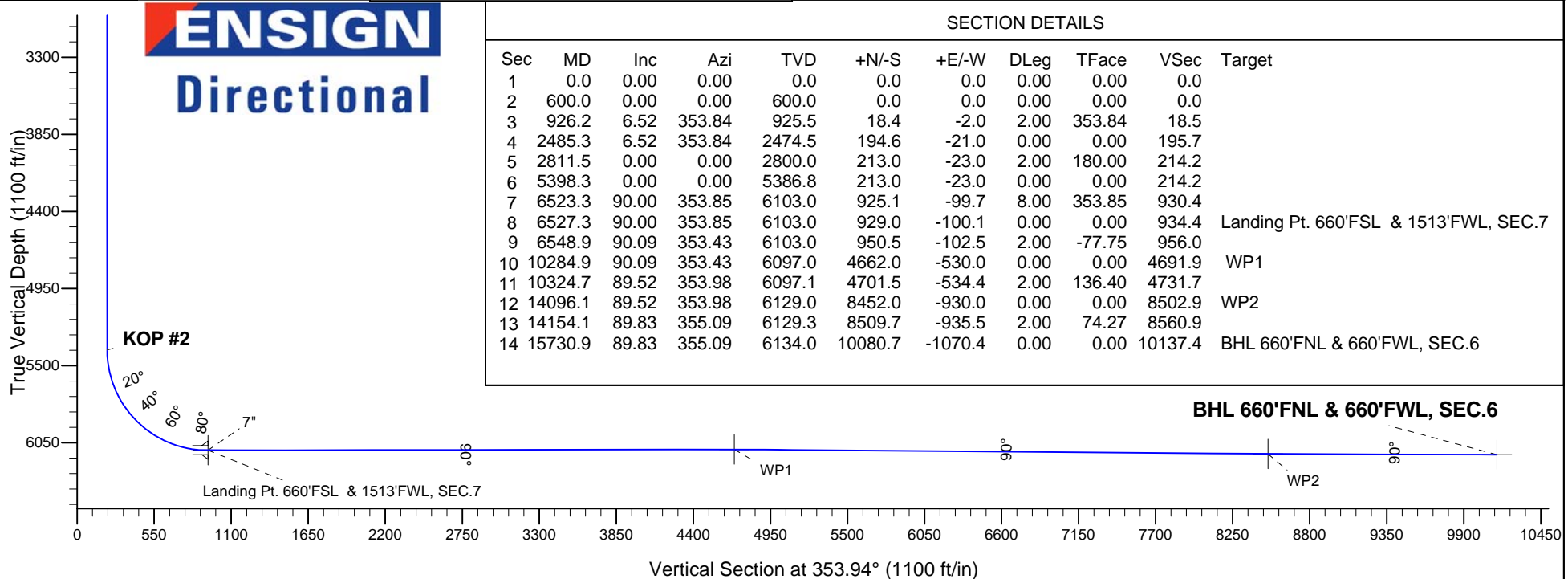
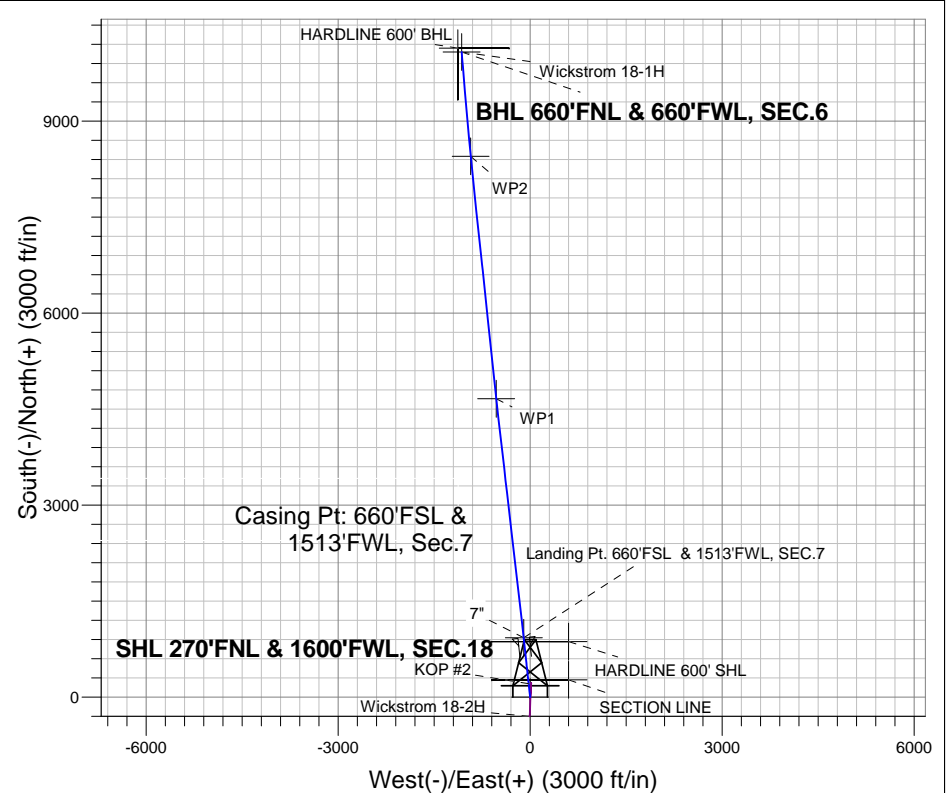
Azimuths to True North
Magnetic North: 8.30°

Magnetic Field
Strength: 53067.7nT
Dip Angle: 67.17°
Date: 2/25/2013
Model: IGRF2010

Wickstrom 18-2H Pad Sec.18-T6N-R60W
Wickstrom 18-1H
Plan #1 (2-25-13)
17:05, February 27 2013

ANNOTATIONS

TVD	MD	Annotation
600.0	600.0	KOP #1
5386.8	5398.3	KOP #2



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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	926.2	6.52	353.84	925.5	18.4	-2.0	2.00	353.84	18.5	
4	2485.3	6.52	353.84	2474.5	194.6	-21.0	0.00	0.00	195.7	
5	2811.5	0.00	0.00	2800.0	213.0	-23.0	2.00	180.00	214.2	
6	5398.3	0.00	0.00	5386.8	213.0	-23.0	0.00	0.00	214.2	
7	6523.3	90.00	353.85	6103.0	925.1	-99.7	8.00	353.85	930.4	
8	6527.3	90.00	353.85	6103.0	929.0	-100.1	0.00	0.00	934.4	Landing Pt. 660'FSL & 1513'FWL, SEC.7
9	6548.9	90.09	353.43	6103.0	950.5	-102.5	2.00	-77.75	956.0	
10	10284.9	90.09	353.43	6097.0	4662.0	-530.0	0.00	0.00	4691.9	WP1
11	10324.7	89.52	353.98	6097.1	4701.5	-534.4	2.00	136.40	4731.7	
12	14096.1	89.52	353.98	6129.0	8452.0	-930.0	0.00	0.00	8502.9	WP2
13	14154.1	89.83	355.09	6129.3	8509.7	-935.5	2.00	74.27	8560.9	
14	15730.9	89.83	355.09	6134.0	10080.7	-1070.4	0.00	0.00	10137.4	BHL 660'FNL & 660'FWL, SEC.6



Condor Energy

SEC.18-T6N-R60W

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

Wickstrom 18-1H

Wellbore #1

Plan: Plan #1 (2-25-13)

Standard Planning Report

27 February, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Project	SEC.18-T6N-R60W, Morgan County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	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	14.6 ft	Northing:	1,426,029.51 ft	Latitude:	40.494910
	+E-W	0.0 ft	Easting:	3,377,761.78 ft	Longitude:	-104.141680
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,700.1 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/25/2013	8.30	67.17	53,068

Design	Plan #1 (2-25-13)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	353.94

Plan Sections										
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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
926.2	6.52	353.84	925.5	18.4	-2.0	2.00	2.00	0.00	353.84	
2,485.3	6.52	353.84	2,474.5	194.6	-21.0	0.00	0.00	0.00	0.00	
2,811.5	0.00	0.00	2,800.0	213.0	-23.0	2.00	-2.00	0.00	180.00	
5,398.3	0.00	0.00	5,386.8	213.0	-23.0	0.00	0.00	0.00	0.00	
6,523.3	90.00	353.85	6,103.0	925.1	-99.7	8.00	8.00	0.00	353.85	
6,527.3	90.00	353.85	6,103.0	929.0	-100.1	0.00	0.00	0.00	0.00	Landing Pt. 660'FSI
6,548.9	90.09	353.43	6,103.0	950.5	-102.5	2.00	0.42	-1.95	-77.75	
10,284.9	90.09	353.43	6,097.0	4,662.0	-530.0	0.00	0.00	0.00	0.00	WP1
10,324.7	89.52	353.98	6,097.1	4,701.5	-534.4	2.00	-1.45	1.38	136.40	
14,096.1	89.52	353.98	6,129.0	8,452.0	-930.0	0.00	0.00	0.00	0.00	WP2
14,154.1	89.83	355.09	6,129.3	8,509.7	-935.5	2.00	0.54	1.93	74.27	
15,730.9	89.83	355.09	6,134.0	10,080.7	-1,070.4	0.00	0.00	0.00	0.00	BHL 660'FNL & 660'

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

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
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
KOP #1									
700.0	2.00	353.84	700.0	1.7	-0.2	1.7	2.00	2.00	0.00
800.0	4.00	353.84	799.8	6.9	-0.7	7.0	2.00	2.00	0.00
900.0	6.00	353.84	899.5	15.6	-1.7	15.7	2.00	2.00	0.00
926.2	6.52	353.84	925.5	18.4	-2.0	18.5	2.00	2.00	0.00
1,000.0	6.52	353.84	998.8	26.8	-2.9	26.9	0.00	0.00	0.00
1,100.0	6.52	353.84	1,098.2	38.1	-4.1	38.3	0.00	0.00	0.00
1,200.0	6.52	353.84	1,197.5	49.4	-5.3	49.7	0.00	0.00	0.00
1,300.0	6.52	353.84	1,296.9	60.7	-6.6	61.0	0.00	0.00	0.00
1,400.0	6.52	353.84	1,396.2	72.0	-7.8	72.4	0.00	0.00	0.00
1,500.0	6.52	353.84	1,495.6	83.3	-9.0	83.7	0.00	0.00	0.00
1,600.0	6.52	353.84	1,594.9	94.6	-10.2	95.1	0.00	0.00	0.00
1,700.0	6.52	353.84	1,694.3	105.9	-11.4	106.5	0.00	0.00	0.00
1,800.0	6.52	353.84	1,793.6	117.1	-12.6	117.8	0.00	0.00	0.00
1,900.0	6.52	353.84	1,893.0	128.4	-13.9	129.2	0.00	0.00	0.00
2,000.0	6.52	353.84	1,992.3	139.7	-15.1	140.5	0.00	0.00	0.00
2,100.0	6.52	353.84	2,091.7	151.0	-16.3	151.9	0.00	0.00	0.00
2,200.0	6.52	353.84	2,191.0	162.3	-17.5	163.3	0.00	0.00	0.00
2,300.0	6.52	353.84	2,290.4	173.6	-18.7	174.6	0.00	0.00	0.00
2,400.0	6.52	353.84	2,389.8	184.9	-20.0	186.0	0.00	0.00	0.00
2,485.3	6.52	353.84	2,474.5	194.6	-21.0	195.7	0.00	0.00	0.00
2,500.0	6.23	353.84	2,489.1	196.2	-21.2	197.3	2.00	-2.00	0.00
2,600.0	4.23	353.84	2,588.7	205.2	-22.2	206.4	2.00	-2.00	0.00
2,700.0	2.23	353.84	2,688.5	210.8	-22.8	212.1	2.00	-2.00	0.00
2,800.0	0.23	353.84	2,788.5	213.0	-23.0	214.2	2.00	-2.00	0.00
2,811.5	0.00	0.00	2,800.0	213.0	-23.0	214.2	2.00	-2.00	0.00
2,900.0	0.00	0.00	2,888.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,000.0	0.00	0.00	2,988.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,100.0	0.00	0.00	3,088.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,200.0	0.00	0.00	3,188.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,300.0	0.00	0.00	3,288.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,400.0	0.00	0.00	3,388.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,500.0	0.00	0.00	3,488.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,600.0	0.00	0.00	3,588.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,700.0	0.00	0.00	3,688.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,800.0	0.00	0.00	3,788.5	213.0	-23.0	214.2	0.00	0.00	0.00
3,900.0	0.00	0.00	3,888.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,000.0	0.00	0.00	3,988.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,100.0	0.00	0.00	4,088.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,200.0	0.00	0.00	4,188.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,300.0	0.00	0.00	4,288.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,400.0	0.00	0.00	4,388.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,500.0	0.00	0.00	4,488.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,600.0	0.00	0.00	4,588.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,700.0	0.00	0.00	4,688.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,800.0	0.00	0.00	4,788.5	213.0	-23.0	214.2	0.00	0.00	0.00
4,900.0	0.00	0.00	4,888.5	213.0	-23.0	214.2	0.00	0.00	0.00

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Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

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)
5,000.0	0.00	0.00	4,988.5	213.0	-23.0	214.2	0.00	0.00	0.00
5,100.0	0.00	0.00	5,088.5	213.0	-23.0	214.2	0.00	0.00	0.00
5,200.0	0.00	0.00	5,188.5	213.0	-23.0	214.2	0.00	0.00	0.00
5,300.0	0.00	0.00	5,288.5	213.0	-23.0	214.2	0.00	0.00	0.00
5,398.3	0.00	0.00	5,386.8	213.0	-23.0	214.2	0.00	0.00	0.00
KOP #2									
5,400.0	0.14	353.85	5,388.5	213.0	-23.0	214.2	7.97	7.97	0.00
5,500.0	8.14	353.85	5,488.2	220.2	-23.8	221.4	8.00	8.00	0.00
5,600.0	16.14	353.85	5,585.8	241.1	-26.0	242.5	8.00	8.00	0.00
5,700.0	24.14	353.85	5,679.7	275.2	-29.7	276.8	8.00	8.00	0.00
5,800.0	32.14	353.85	5,767.8	322.1	-34.8	324.0	8.00	8.00	0.00
5,900.0	40.14	353.85	5,848.5	380.7	-41.1	382.9	8.00	8.00	0.00
6,000.0	48.14	353.85	5,920.2	449.9	-48.5	452.5	8.00	8.00	0.00
6,100.0	56.14	353.85	5,981.5	528.3	-57.0	531.3	8.00	8.00	0.00
6,200.0	64.14	353.85	6,031.3	614.4	-66.2	618.0	8.00	8.00	0.00
6,300.0	72.14	353.85	6,068.5	706.6	-76.2	710.7	8.00	8.00	0.00
6,400.0	80.14	353.85	6,092.4	803.1	-86.6	807.7	8.00	8.00	0.00
6,500.0	88.14	353.85	6,102.6	901.9	-97.2	907.1	8.00	8.00	0.00
6,523.3	90.00	353.85	6,103.0	925.1	-99.7	930.4	8.00	8.00	0.00
6,527.3	90.00	353.85	6,103.0	929.0	-100.1	934.4	0.00	0.00	0.00
7"									
6,548.9	90.09	353.43	6,103.0	950.5	-102.5	956.0	2.00	0.42	-1.96
6,600.0	90.09	353.43	6,102.9	1,001.3	-108.4	1,007.1	0.00	0.00	0.00
6,700.0	90.09	353.43	6,102.7	1,100.6	-119.8	1,107.1	0.00	0.00	0.00
6,800.0	90.09	353.43	6,102.6	1,200.0	-131.3	1,207.1	0.00	0.00	0.00
6,900.0	90.09	353.43	6,102.4	1,299.3	-142.7	1,307.1	0.00	0.00	0.00
7,000.0	90.09	353.43	6,102.3	1,398.7	-154.1	1,407.1	0.00	0.00	0.00
7,100.0	90.09	353.43	6,102.1	1,498.0	-165.6	1,507.1	0.00	0.00	0.00
7,200.0	90.09	353.43	6,101.9	1,597.3	-177.0	1,607.1	0.00	0.00	0.00
7,300.0	90.09	353.43	6,101.8	1,696.7	-188.5	1,707.1	0.00	0.00	0.00
7,400.0	90.09	353.43	6,101.6	1,796.0	-199.9	1,807.1	0.00	0.00	0.00
7,500.0	90.09	353.43	6,101.5	1,895.4	-211.3	1,907.1	0.00	0.00	0.00
7,600.0	90.09	353.43	6,101.3	1,994.7	-222.8	2,007.1	0.00	0.00	0.00
7,700.0	90.09	353.43	6,101.1	2,094.1	-234.2	2,107.1	0.00	0.00	0.00
7,800.0	90.09	353.43	6,101.0	2,193.4	-245.7	2,207.1	0.00	0.00	0.00
7,900.0	90.09	353.43	6,100.8	2,292.7	-257.1	2,307.1	0.00	0.00	0.00
8,000.0	90.09	353.43	6,100.7	2,392.1	-268.6	2,407.1	0.00	0.00	0.00
8,100.0	90.09	353.43	6,100.5	2,491.4	-280.0	2,507.1	0.00	0.00	0.00
8,200.0	90.09	353.43	6,100.3	2,590.8	-291.4	2,607.1	0.00	0.00	0.00
8,300.0	90.09	353.43	6,100.2	2,690.1	-302.9	2,707.1	0.00	0.00	0.00
8,400.0	90.09	353.43	6,100.0	2,789.5	-314.3	2,807.1	0.00	0.00	0.00
8,500.0	90.09	353.43	6,099.9	2,888.8	-325.8	2,907.0	0.00	0.00	0.00
8,600.0	90.09	353.43	6,099.7	2,988.1	-337.2	3,007.0	0.00	0.00	0.00
8,700.0	90.09	353.43	6,099.5	3,087.5	-348.7	3,107.0	0.00	0.00	0.00
8,800.0	90.09	353.43	6,099.4	3,186.8	-360.1	3,207.0	0.00	0.00	0.00
8,900.0	90.09	353.43	6,099.2	3,286.2	-371.5	3,307.0	0.00	0.00	0.00
9,000.0	90.09	353.43	6,099.1	3,385.5	-383.0	3,407.0	0.00	0.00	0.00
9,100.0	90.09	353.43	6,098.9	3,484.9	-394.4	3,507.0	0.00	0.00	0.00
9,200.0	90.09	353.43	6,098.7	3,584.2	-405.9	3,607.0	0.00	0.00	0.00
9,300.0	90.09	353.43	6,098.6	3,683.5	-417.3	3,707.0	0.00	0.00	0.00
9,400.0	90.09	353.43	6,098.4	3,782.9	-428.7	3,807.0	0.00	0.00	0.00
9,500.0	90.09	353.43	6,098.3	3,882.2	-440.2	3,907.0	0.00	0.00	0.00
9,600.0	90.09	353.43	6,098.1	3,981.6	-451.6	4,007.0	0.00	0.00	0.00
9,700.0	90.09	353.43	6,097.9	4,080.9	-463.1	4,107.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

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)
9,800.0	90.09	353.43	6,097.8	4,180.3	-474.5	4,207.0	0.00	0.00	0.00
9,900.0	90.09	353.43	6,097.6	4,279.6	-486.0	4,307.0	0.00	0.00	0.00
10,000.0	90.09	353.43	6,097.5	4,378.9	-497.4	4,407.0	0.00	0.00	0.00
10,100.0	90.09	353.43	6,097.3	4,478.3	-508.8	4,507.0	0.00	0.00	0.00
10,200.0	90.09	353.43	6,097.1	4,577.6	-520.3	4,607.0	0.00	0.00	0.00
10,284.9	90.09	353.43	6,097.0	4,662.0	-530.0	4,691.9	0.00	0.00	0.00
10,300.0	89.87	353.64	6,097.0	4,677.0	-531.7	4,707.0	2.00	-1.45	1.38
10,324.7	89.52	353.98	6,097.1	4,701.5	-534.4	4,731.7	2.00	-1.45	1.38
10,400.0	89.52	353.98	6,097.8	4,776.4	-542.3	4,807.0	0.00	0.00	0.00
10,500.0	89.52	353.98	6,098.6	4,875.9	-552.8	4,907.0	0.00	0.00	0.00
10,600.0	89.52	353.98	6,099.5	4,975.3	-563.2	5,007.0	0.00	0.00	0.00
10,700.0	89.52	353.98	6,100.3	5,074.7	-573.7	5,107.0	0.00	0.00	0.00
10,800.0	89.52	353.98	6,101.2	5,174.2	-584.2	5,207.0	0.00	0.00	0.00
10,900.0	89.52	353.98	6,102.0	5,273.6	-594.7	5,307.0	0.00	0.00	0.00
11,000.0	89.52	353.98	6,102.8	5,373.1	-605.2	5,407.0	0.00	0.00	0.00
11,100.0	89.52	353.98	6,103.7	5,472.5	-615.7	5,506.9	0.00	0.00	0.00
11,200.0	89.52	353.98	6,104.5	5,572.0	-626.2	5,606.9	0.00	0.00	0.00
11,300.0	89.52	353.98	6,105.4	5,671.4	-636.7	5,706.9	0.00	0.00	0.00
11,400.0	89.52	353.98	6,106.2	5,770.9	-647.2	5,806.9	0.00	0.00	0.00
11,500.0	89.52	353.98	6,107.1	5,870.3	-657.7	5,906.9	0.00	0.00	0.00
11,600.0	89.52	353.98	6,107.9	5,969.8	-668.1	6,006.9	0.00	0.00	0.00
11,700.0	89.52	353.98	6,108.8	6,069.2	-678.6	6,106.9	0.00	0.00	0.00
11,800.0	89.52	353.98	6,109.6	6,168.6	-689.1	6,206.9	0.00	0.00	0.00
11,900.0	89.52	353.98	6,110.4	6,268.1	-699.6	6,306.9	0.00	0.00	0.00
12,000.0	89.52	353.98	6,111.3	6,367.5	-710.1	6,406.9	0.00	0.00	0.00
12,100.0	89.52	353.98	6,112.1	6,467.0	-720.6	6,506.9	0.00	0.00	0.00
12,200.0	89.52	353.98	6,113.0	6,566.4	-731.1	6,606.9	0.00	0.00	0.00
12,300.0	89.52	353.98	6,113.8	6,665.9	-741.6	6,706.9	0.00	0.00	0.00
12,400.0	89.52	353.98	6,114.7	6,765.3	-752.1	6,806.9	0.00	0.00	0.00
12,500.0	89.52	353.98	6,115.5	6,864.8	-762.6	6,906.9	0.00	0.00	0.00
12,600.0	89.52	353.98	6,116.4	6,964.2	-773.1	7,006.9	0.00	0.00	0.00
12,700.0	89.52	353.98	6,117.2	7,063.6	-783.5	7,106.9	0.00	0.00	0.00
12,800.0	89.52	353.98	6,118.0	7,163.1	-794.0	7,206.9	0.00	0.00	0.00
12,900.0	89.52	353.98	6,118.9	7,262.5	-804.5	7,306.9	0.00	0.00	0.00
13,000.0	89.52	353.98	6,119.7	7,362.0	-815.0	7,406.9	0.00	0.00	0.00
13,100.0	89.52	353.98	6,120.6	7,461.4	-825.5	7,506.9	0.00	0.00	0.00
13,200.0	89.52	353.98	6,121.4	7,560.9	-836.0	7,606.9	0.00	0.00	0.00
13,300.0	89.52	353.98	6,122.3	7,660.3	-846.5	7,706.9	0.00	0.00	0.00
13,400.0	89.52	353.98	6,123.1	7,759.8	-857.0	7,806.9	0.00	0.00	0.00
13,500.0	89.52	353.98	6,124.0	7,859.2	-867.5	7,906.9	0.00	0.00	0.00
13,600.0	89.52	353.98	6,124.8	7,958.6	-878.0	8,006.9	0.00	0.00	0.00
13,700.0	89.52	353.98	6,125.7	8,058.1	-888.4	8,106.9	0.00	0.00	0.00
13,800.0	89.52	353.98	6,126.5	8,157.5	-898.9	8,206.8	0.00	0.00	0.00
13,900.0	89.52	353.98	6,127.3	8,257.0	-909.4	8,306.8	0.00	0.00	0.00
14,000.0	89.52	353.98	6,128.2	8,356.4	-919.9	8,406.8	0.00	0.00	0.00
14,096.1	89.52	353.98	6,129.0	8,452.0	-930.0	8,502.9	0.00	0.00	0.00
14,100.0	89.54	354.05	6,129.0	8,455.9	-930.4	8,506.8	2.00	0.54	1.93
14,154.1	89.83	355.09	6,129.3	8,509.7	-935.5	8,560.9	2.00	0.54	1.93
14,200.0	89.83	355.09	6,129.5	8,555.5	-939.4	8,606.8	0.00	0.00	0.00
14,300.0	89.83	355.09	6,129.8	8,655.1	-948.0	8,706.8	0.00	0.00	0.00
14,400.0	89.83	355.09	6,130.1	8,754.7	-956.5	8,806.8	0.00	0.00	0.00
14,500.0	89.83	355.09	6,130.4	8,854.4	-965.1	8,906.8	0.00	0.00	0.00
14,600.0	89.83	355.09	6,130.7	8,954.0	-973.7	9,006.7	0.00	0.00	0.00
14,700.0	89.83	355.09	6,130.9	9,053.6	-982.2	9,106.7	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

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	89.83	355.09	6,131.2	9,153.3	-990.8	9,206.7	0.00	0.00	0.00	
14,900.0	89.83	355.09	6,131.5	9,252.9	-999.3	9,306.7	0.00	0.00	0.00	
15,000.0	89.83	355.09	6,131.8	9,352.5	-1,007.9	9,406.7	0.00	0.00	0.00	
15,100.0	89.83	355.09	6,132.1	9,452.2	-1,016.4	9,506.6	0.00	0.00	0.00	
15,200.0	89.83	355.09	6,132.4	9,551.8	-1,025.0	9,606.6	0.00	0.00	0.00	
15,300.0	89.83	355.09	6,132.7	9,651.4	-1,033.5	9,706.6	0.00	0.00	0.00	
15,400.0	89.83	355.09	6,133.0	9,751.1	-1,042.1	9,806.6	0.00	0.00	0.00	
15,500.0	89.83	355.09	6,133.3	9,850.7	-1,050.6	9,906.6	0.00	0.00	0.00	
15,600.0	89.83	355.09	6,133.6	9,950.3	-1,059.2	10,006.5	0.00	0.00	0.00	
15,700.0	89.83	355.09	6,133.9	10,050.0	-1,067.7	10,106.5	0.00	0.00	0.00	
15,730.9	89.83	355.09	6,134.0	10,080.7	-1,070.4	10,137.4	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
SECTION LINE	0.00	0.00	1.1	270.4	600.0	1,426,309.08	3,378,357.55	40.495652	-104.139523	
- plan misses target center by 658.1ft at 1.1ft MD (1.1 TVD, 0.0 N, 0.0 E)										
- Polygon										
Point 1			1.1	0.0	0.0	1,426,309.08	3,378,357.55			
Point 2			1.1	0.0	-1,200.0	1,426,290.70	3,377,157.73			
SHL 270'FNL & 1600'	0.00	0.00	1.0	0.0	0.0	1,426,029.51	3,377,761.78	40.494910	-104.141680	
- plan hits target center										
- Point										
Landing Pt. 660'FSL	0.00	0.00	6,103.0	929.0	-100.1	1,426,956.85	3,377,647.44	40.497460	-104.142040	
- plan hits target center										
- Point										
HARDLINE 600' BHL	0.00	0.00	1.0	10,140.7	-1,130.4	1,436,151.34	3,376,476.23	40.522745	-104.145746	
- plan misses target center by 6133.6ft at 15730.9ft MD (6134.0 TVD, 10080.7 N, -1070.4 E)										
- Polygon										
Point 1			1.0	0.0	0.0	1,436,151.34	3,376,476.23			
Point 2			1.0	0.0	800.0	1,436,163.59	3,377,276.11			
Point 3			1.0	0.0	0.0	1,436,151.34	3,376,476.23			
Point 4			1.0	-800.0	0.0	1,435,351.46	3,376,488.49			
WP2	0.00	0.00	6,129.0	8,452.0	-930.0	1,434,465.97	3,376,702.47	40.518109	-104.145025	
- plan hits target center										
- Point										
BHL 660'FNL & 660'F	0.00	0.00	6,134.0	10,080.7	-1,070.4	1,436,092.31	3,376,537.18	40.522580	-104.145530	
- plan hits target center										
- Point										
HARDLINE 600' SHL	0.00	0.00	1.0	869.0	600.0	1,426,907.56	3,378,348.38	40.497295	-104.139523	
- plan misses target center by 1056.0ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)										
- Polygon										
Point 1			1.0	0.0	0.0	1,426,907.56	3,378,348.38			
Point 2			1.0	0.0	-1,200.0	1,426,889.18	3,377,148.56			
WP1	0.00	0.00	6,097.0	4,662.0	-530.0	1,430,682.67	3,377,160.46	40.507706	-104.143586	
- plan hits target center										
- Point										

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
6,527.3	6,103.0	7"		7	7-1/2

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
600.0	600.0	0.0	0.0	KOP #1	
5,398.3	5,386.8	213.0	-23.0	KOP #2	



Condor Energy

SEC.18-T6N-R60W

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

Wickstrom 18-1H

Wellbore #1

Plan #1 (2-25-13)

Anticollision Report

27 February, 2013

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Project:	SEC.18-T6N-R60W	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Reference Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (2-25-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (2-25-13)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 2/27/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,730.9	Plan #1 (2-25-13) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Wickstrom 18-2H Pad Sec.18-T6N-R60W						
Wickstrom 18-2H - Wellbore #1 - Plan #1 (2-25-13)	600.0	599.9	14.6	12.1	5.896 CC, ES	
Wickstrom 18-2H - Wellbore #1 - Plan #1 (2-25-13)	5,465.4	5,466.1	38.2	13.1	1.523 SF	

Offset Design Wickstrom 18-2H Pad Sec.18-T6N-R60W - Wickstrom 18-2H - Wellbore #1 - Plan #1 (2-25-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-14.6	0.0	14.6	14.6	0.00	N/A		
100.0	100.0	99.9	99.9	0.1	0.1	-180.00	-14.6	0.0	14.6	14.4	0.22	64.886		
200.0	200.0	199.9	199.9	0.3	0.3	-180.00	-14.6	0.0	14.6	13.9	0.67	21.625		
300.0	300.0	299.9	299.9	0.6	0.6	-180.00	-14.6	0.0	14.6	13.5	1.12	12.973		
400.0	400.0	399.9	399.9	0.8	0.8	-180.00	-14.6	0.0	14.6	13.0	1.57	9.266		
500.0	500.0	499.9	499.9	1.0	1.0	-180.00	-14.6	0.0	14.6	12.6	2.02	7.207		
600.0	600.0	599.9	599.9	1.2	1.2	-180.00	-14.6	0.0	14.6	12.1	2.47	5.896	CC, ES	
700.0	700.0	699.9	699.9	1.5	1.5	-174.49	-14.6	0.0	16.3	13.4	2.92	5.580		
800.0	799.8	799.7	799.7	1.7	1.7	-175.82	-14.6	0.0	21.5	18.2	3.37	6.380		
900.0	899.5	899.4	899.4	1.9	1.9	-177.02	-14.6	0.0	30.2	26.4	3.82	7.905		
926.2	925.5	925.4	925.4	2.0	2.0	-177.27	-14.6	0.0	33.1	29.1	3.94	8.395		
1,000.0	998.8	998.7	998.7	2.2	2.1	-177.82	-14.6	0.0	41.5	37.2	4.27	9.704		
1,100.0	1,098.2	1,098.1	1,098.1	2.4	2.4	-178.29	-14.6	0.0	52.8	48.1	4.72	11.182		
1,200.0	1,197.5	1,197.4	1,197.4	2.7	2.6	-178.59	-14.6	0.0	64.2	59.0	5.18	12.397		
1,300.0	1,296.9	1,296.8	1,296.8	3.0	2.8	-178.81	-14.6	0.0	75.5	69.9	5.63	13.415		
1,400.0	1,396.2	1,396.1	1,396.1	3.3	3.0	-178.96	-14.6	0.0	86.9	80.8	6.09	14.278		
1,500.0	1,495.6	1,495.5	1,495.5	3.6	3.2	-179.08	-14.6	0.0	98.2	91.7	6.54	15.019		
1,600.0	1,594.9	1,594.8	1,594.8	3.9	3.5	-179.18	-14.6	0.0	109.6	102.6	7.00	15.662		
1,700.0	1,694.3	1,694.2	1,694.2	4.2	3.7	-179.25	-14.6	0.0	121.0	113.5	7.46	16.226		
1,800.0	1,793.6	1,793.5	1,793.5	4.4	3.9	-179.32	-14.6	0.0	132.3	124.4	7.91	16.723		
1,900.0	1,893.0	1,892.9	1,892.9	4.7	4.1	-179.37	-14.6	0.0	143.7	135.3	8.37	17.165		
2,000.0	1,992.3	1,992.2	1,992.2	5.0	4.4	-179.42	-14.6	0.0	155.1	146.2	8.83	17.561		
2,100.0	2,091.7	2,091.6	2,091.6	5.3	4.6	-179.55	-12.9	0.1	164.9	155.6	9.30	17.732		
2,200.0	2,191.0	2,203.1	2,202.9	5.6	4.8	-179.89	-7.4	0.5	171.1	161.3	9.77	17.512		
2,300.0	2,290.4	2,309.1	2,308.5	5.9	5.1	179.58	2.1	1.1	173.7	163.4	10.24	16.953		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Project:	SEC.18-T6N-R60W	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Reference Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (2-25-13)	Offset TVD Reference:	Offset Datum

Offset Design Wickstrom 18-2H Pad Sec.18-T6N-R60W - Wickstrom 18-2H - Wellbore #1 - Plan #1 (2-25-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,400.0	2,389.8	2,409.1	2,408.0	6.2	5.3	178.98	12.7	1.7	174.5	163.8	10.71	16.301		
2,485.3	2,474.5	2,494.4	2,492.8	6.5	5.5	178.48	21.8	2.3	175.3	164.2	11.10	15.787		
2,500.0	2,489.1	2,509.1	2,507.4	6.5	5.5	178.39	23.4	2.4	175.4	164.2	11.17	15.700		
2,600.0	2,588.7	2,609.1	2,606.8	6.8	5.8	177.78	34.0	3.1	174.0	162.4	11.59	15.010		
2,700.0	2,688.5	2,708.9	2,706.0	6.9	6.0	177.10	44.6	3.8	169.2	157.2	12.00	14.097		
2,800.0	2,788.5	2,808.6	2,805.1	7.1	6.3	176.29	55.3	4.5	161.0	148.6	12.40	12.982		
2,811.5	2,800.0	2,820.0	2,816.5	7.1	6.3	170.02	56.5	4.5	159.8	147.4	12.44	12.844		
2,900.0	2,888.5	2,908.0	2,904.0	7.3	6.5	169.18	65.8	5.1	150.6	137.8	12.81	11.756		
3,000.0	2,988.5	3,007.4	3,002.8	7.5	6.8	168.09	76.4	5.8	140.3	127.1	13.26	10.584		
3,100.0	3,088.5	3,106.8	3,101.7	7.7	7.1	166.83	87.0	6.5	130.1	116.3	13.70	9.490		
3,200.0	3,188.5	3,206.3	3,200.6	7.9	7.3	165.35	97.6	7.2	119.9	105.7	14.15	8.469		
3,300.0	3,288.5	3,305.7	3,299.4	8.0	7.6	163.60	108.2	7.8	109.8	95.2	14.61	7.516		
3,400.0	3,388.5	3,405.1	3,398.3	8.2	7.9	161.50	118.8	8.5	99.8	84.7	15.07	6.625		
3,500.0	3,488.5	3,504.6	3,497.1	8.4	8.1	158.94	129.4	9.2	90.0	74.5	15.53	5.795		
3,600.0	3,588.5	3,604.0	3,596.0	8.6	8.4	155.76	140.0	9.9	80.4	64.4	16.01	5.023		
3,700.0	3,688.5	3,703.4	3,694.9	8.8	8.7	151.75	150.6	10.5	71.1	54.6	16.51	4.310		
3,800.0	3,788.5	3,802.8	3,793.7	9.0	8.9	146.56	161.2	11.2	62.3	45.3	17.04	3.659		
3,900.0	3,888.5	3,902.3	3,892.6	9.2	9.2	139.76	171.8	11.9	54.2	36.6	17.61	3.076		
4,000.0	3,988.5	4,001.7	3,991.4	9.4	9.5	130.74	182.4	12.6	47.0	28.8	18.25	2.578		
4,100.0	4,088.5	4,101.1	4,090.3	9.6	9.8	118.94	193.0	13.2	41.5	22.5	18.96	2.187		
4,200.0	4,188.5	4,200.6	4,189.2	9.8	10.0	104.36	203.5	13.9	38.1	18.4	19.70	1.935		
4,274.5	4,263.0	4,274.6	4,262.9	10.0	10.2	93.65	210.6	14.4	37.4	17.3	20.16	1.857		
4,300.0	4,288.5	4,300.1	4,288.2	10.1	10.3	90.61	212.6	14.5	37.5	17.2	20.30	1.847		
4,400.0	4,388.5	4,400.1	4,388.1	10.3	10.5	82.12	218.2	14.9	38.2	17.5	20.73	1.844		
4,500.0	4,488.5	4,500.4	4,488.4	10.5	10.7	78.98	220.4	15.0	38.7	17.6	21.11	1.834		
4,600.0	4,588.5	4,600.4	4,588.4	10.7	10.8	78.95	220.4	15.0	38.7	17.2	21.49	1.801		
4,700.0	4,688.5	4,700.4	4,688.4	10.9	11.0	78.95	220.4	15.0	38.7	16.8	21.91	1.767		
4,800.0	4,788.5	4,800.4	4,788.4	11.1	11.2	78.95	220.4	15.0	38.7	16.4	22.32	1.735		
4,900.0	4,888.5	4,900.4	4,888.4	11.3	11.5	78.95	220.4	15.0	38.7	16.0	22.74	1.703		
5,000.0	4,988.5	5,000.4	4,988.4	11.5	11.7	78.95	220.4	15.0	38.7	15.6	23.16	1.672		
5,100.0	5,088.5	5,100.4	5,088.4	11.7	11.9	78.95	220.4	15.0	38.7	15.1	23.57	1.642		
5,200.0	5,188.5	5,200.4	5,188.4	11.9	12.1	78.95	220.4	15.0	38.7	14.7	23.99	1.614		
5,300.0	5,288.5	5,300.4	5,288.4	12.1	12.3	78.95	220.4	15.0	38.7	14.3	24.42	1.586		
5,398.3	5,386.8	5,398.7	5,386.7	12.3	12.5	78.95	220.4	15.0	38.7	13.9	24.83	1.559		
5,400.0	5,388.5	5,400.4	5,388.4	12.4	12.5	85.10	220.4	15.0	38.7	13.9	24.81	1.560		
5,450.0	5,438.5	5,450.8	5,438.7	12.5	12.6	90.57	218.6	14.9	38.3	13.3	25.04	1.530		
5,465.4	5,453.8	5,466.1	5,454.0	12.5	12.6	94.34	217.3	14.9	38.2	13.1	25.10	1.523 SF		
5,500.0	5,488.2	5,499.7	5,487.4	12.6	12.6	105.75	213.5	14.7	39.1	13.9	25.18	1.551		
5,550.0	5,537.4	5,545.8	5,532.8	12.8	12.7	125.41	205.6	14.3	45.7	20.7	25.05	1.825		
5,600.0	5,585.8	5,588.2	5,574.0	12.9	12.7	141.68	195.8	13.9	61.5	36.8	24.72	2.488		
5,650.0	5,633.3	5,626.2	5,610.4	13.1	12.7	152.24	184.9	13.4	85.7	61.3	24.35	3.518		
5,700.0	5,679.7	5,659.5	5,641.8	13.4	12.7	158.66	173.9	12.9	116.3	92.3	23.95	4.855		
5,750.0	5,724.5	5,688.0	5,668.3	13.6	12.7	162.54	163.2	12.5	151.9	128.4	23.51	6.460		
5,800.0	5,767.8	5,712.0	5,690.1	13.9	12.7	164.83	153.5	12.0	191.4	168.4	23.02	8.315		
5,850.0	5,809.1	5,731.6	5,707.8	14.2	12.7	166.02	145.0	11.7	233.9	211.5	22.47	10.411		
5,900.0	5,848.5	5,750.0	5,724.2	14.5	12.7	166.73	136.5	11.3	278.9	257.0	21.87	12.754		
5,950.0	5,885.5	5,759.2	5,732.2	14.9	12.7	165.66	132.2	11.1	325.6	304.3	21.29	15.291		
6,000.0	5,920.2	5,767.9	5,739.9	15.3	12.7	163.62	127.9	10.9	373.7	352.9	20.79	17.973		
6,050.0	5,952.2	5,773.8	5,745.0	15.8	12.7	158.76	125.0	10.8	422.7	402.0	20.68	20.441		
6,100.0	5,981.5	5,777.1	5,747.8	16.3	12.7	145.20	123.4	10.7	472.3	449.9	22.39	21.095		
6,150.0	6,007.9	5,778.0	5,748.7	16.9	12.7	91.79	122.9	10.7	522.2	492.7	29.56	17.669		
6,200.0	6,031.3	5,777.0	5,747.8	17.4	12.7	31.91	123.4	10.7	572.1	550.7	21.41	26.722		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Project:	SEC.18-T6N-R60W	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Reference Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (2-25-13)	Offset TVD Reference:	Offset Datum

Offset Design Wickstrom 18-2H Pad Sec.18-T6N-R60W - Wickstrom 18-2H - Wellbore #1 - Plan #1 (2-25-13)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,250.0	6,051.5	5,774.2	5,745.3	18.1	12.7	16.28	124.8	10.8	621.8	604.3	17.56	35.405	
6,300.0	6,068.5	5,769.8	5,741.5	18.7	12.7	10.54	127.0	10.9	671.1	655.2	15.94	42.092	
6,350.0	6,082.1	5,763.9	5,736.4	19.4	12.7	7.69	129.9	11.0	719.8	704.9	14.90	48.295	
6,400.0	6,092.4	5,750.0	5,724.2	20.1	12.7	5.98	136.5	11.3	767.7	753.6	14.12	54.369	
6,450.0	6,099.3	5,750.0	5,724.2	20.9	12.7	4.95	136.5	11.3	814.6	801.1	13.56	60.078	
6,500.0	6,102.6	5,750.0	5,724.2	21.6	12.7	4.20	136.5	11.3	860.7	847.5	13.18	65.279	
6,523.3	6,103.0	5,734.9	5,710.7	22.0	12.7	3.93	143.5	11.6	881.5	868.4	13.07	67.467	
6,527.3	6,103.0	5,734.1	5,710.0	22.1	12.7	3.93	143.9	11.6	885.1	872.0	13.08	67.650	
6,548.9	6,103.0	5,729.8	5,706.2	22.4	12.7	3.08	145.8	11.7	904.4	891.4	13.09	69.084	
6,600.0	6,102.9	5,720.0	5,697.4	23.2	12.7	3.10	150.0	11.9	950.5	937.2	13.32	71.337	

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Project:	SEC.18-T6N-R60W	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Reference Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (2-25-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4712.6ft (Original Well Elev) Coordinates are relative to: Wickstrom 18-1H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.88°



Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 18-1H
Project:	SEC.18-T6N-R60W	TVD Reference:	WELL @ 4712.6ft (Original Well Elev)
Reference Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 18-1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (2-25-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4712.6ft (Original Well Elev) Coordinates are relative to: Wickstrom 18-1H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.88°

