Condor Energy

Well Name: **Wickstrom 18-11H**

Surface Location: Wickstrom 18-9H Pad Sec.18-T6N-R60W

North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

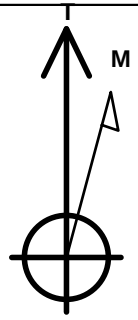
Ground Elevation: 4709.3

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1426059.23	3380170.13	40.494890	-104.133020	

RKB - 12.5' WELL @ 4721.8ft (RKB - 12.5')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 270'FNL & 1419'FEL, Sec.18	1.0	0.0	0.0	Point
HARDLINE 600' BHL , Sec.6	1.5	10148.1	802.3	Polygon
HARDLINE 600' SHL, Sec.7	1.5	896.1	819.3	Polygon
SECTION LINE	1.6	268.1	858.4	Polygon
BHL 660'FNL & 1866'FEL, Sec.6	6100.0	10088.0	-464.3	Point
Landing Pt. 660'FSL & 1837'FEL, Sec.7	6100.0	932.7	-417.2	Point



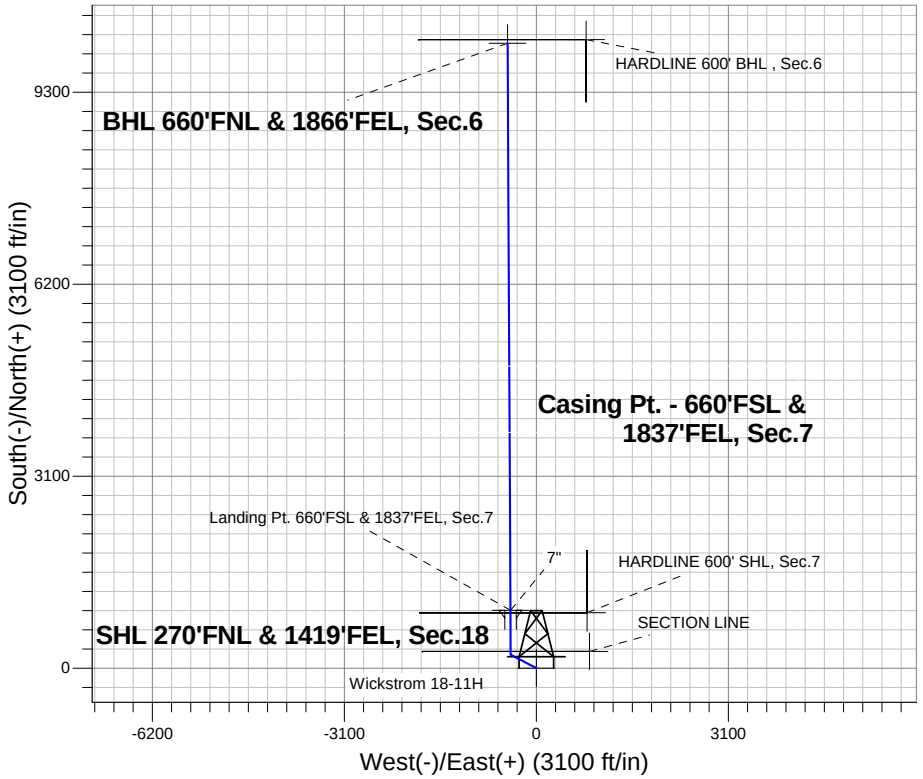
Azimuths to True North
Magnetic North: 8.24°

Magnetic Field
Strength: 53024.5snT
Dip Angle: 67.16°
Date: 7/26/2013
Model: IGRF2010

Wickstrom 18-9H Pad Sec.18-T6N-R60W
Wickstrom 18-11H
Plan #1 (7-26-13)
17:13, July 26 2013

ANNOTATIONS

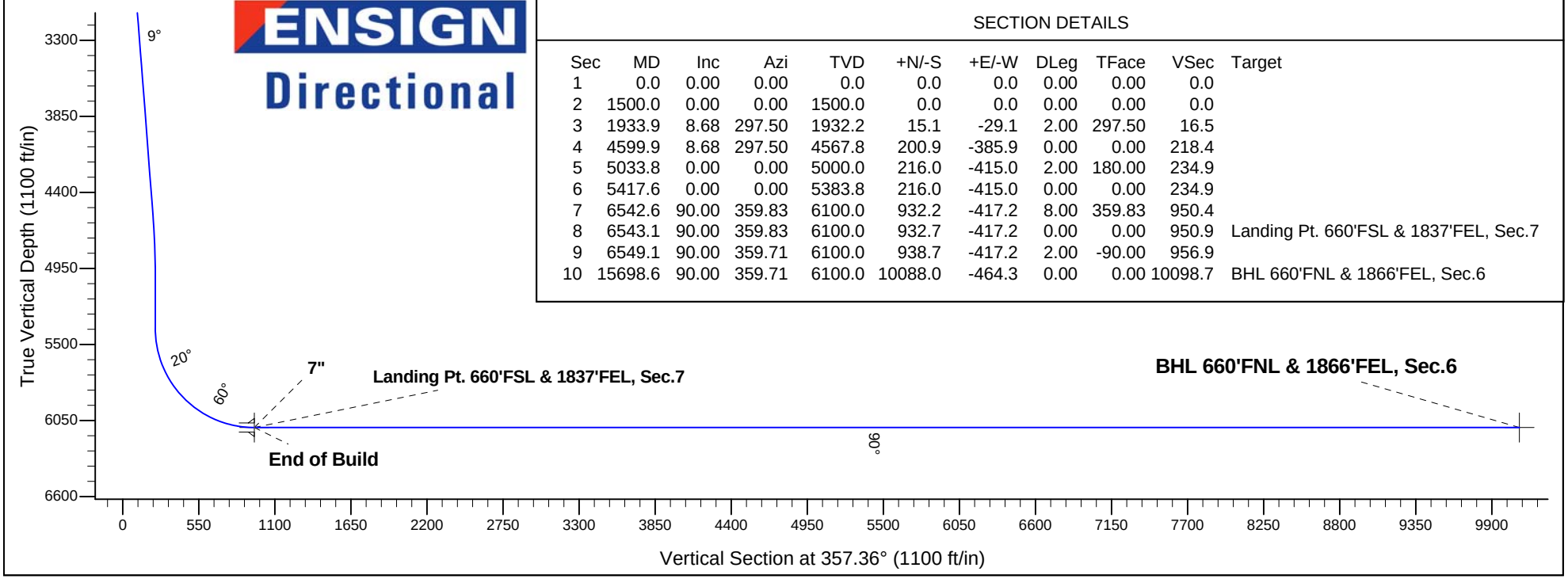
TVD	MD	Annotation
1500.0	1500.0	KOP #1
5383.8	5417.6	KOP #2
6100.0	6543.1	End of Build



ENSIGN Directional

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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1933.9	8.68	297.50	1932.2	15.1	-29.1	2.00	297.50	16.5	
4	4599.9	8.68	297.50	4567.8	200.9	-385.9	0.00	0.00	218.4	
5	5033.8	0.00	0.00	5000.0	216.0	-415.0	2.00	180.00	234.9	
6	5417.6	0.00	0.00	5383.8	216.0	-415.0	0.00	0.00	234.9	
7	6542.6	90.00	359.83	6100.0	932.2	-417.2	8.00	359.83	950.4	
8	6543.1	90.00	359.83	6100.0	932.7	-417.2	0.00	0.00	950.9	Landing Pt. 660'FSL & 1837'FEL, Sec.7
9	6549.1	90.00	359.71	6100.0	938.7	-417.2	2.00	-90.00	956.9	
10	15698.6	90.00	359.71	6100.0	10088.0	-464.3	0.00	0.00	10098.7	BHL 660'FNL & 1866'FEL, Sec.6



Condor Energy

SEC.18-T6N-R60W
Wickstrom 18-9H Pad Sec.18-T6N-R60W
Wickstrom 18-11H

Wellbore #1

Plan: Plan #1 (7-26-13)

Standard Planning Report

26 July, 2013

Database:	Landmark	**Local Co-ordinate Reference:**	Well Wickstrom 18-11H
Company:	Condor Energy	**TVD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	**MD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Site:	Wickstrom 18-9H Pad Sec.18-T6N-R60W	**North Reference:**	True
Well:	Wickstrom 18-11H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-26-13)		

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 18-9H Pad Sec.18-T6N-R60W

Site Position:		**Northing:**	1,425,998.22 ft	**Latitude:**	40.494720
From:	Lat/Long	**Easting:**	3,380,229.49 ft	**Longitude:**	-104.132810
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.88 °

Well Wickstrom 18-11H

Well Position	**+N/-S**	61.9 ft	**Northing:**	1,426,059.23 ft	**Latitude:**	40.494890
	+E/-W	-58.4 ft	**Easting:**	3,380,170.13 ft	**Longitude:**	-104.133020
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,709.3 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/26/2013	8.24	67.16	53,025

Design Plan #1 (7-26-13)

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	357.36

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,933.9	8.68	297.50	1,932.2	15.1	-29.1	2.00	2.00	0.00	297.50	
4,599.9	8.68	297.50	4,567.8	200.9	-385.9	0.00	0.00	0.00	0.00	
5,033.8	0.00	0.00	5,000.0	216.0	-415.0	2.00	-2.00	0.00	180.00	
5,417.6	0.00	0.00	5,383.8	216.0	-415.0	0.00	0.00	0.00	0.00	
6,542.6	90.00	359.83	6,100.0	932.2	-417.2	8.00	8.00	0.00	359.83	
6,543.1	90.00	359.83	6,100.0	932.7	-417.2	0.00	0.00	0.00	0.00	Landing Pt. 660'FSI
6,549.1	90.00	359.71	6,100.0	938.7	-417.2	2.00	0.00	-2.00	-90.00	
15,698.6	90.00	359.71	6,100.0	10,088.0	-464.3	0.00	0.00	0.00	0.00	BHL 660'FNL & 18(

Database:	Landmark	**Local Co-ordinate Reference:**	Well Wickstrom 18-11H
Company:	Condor Energy	**TVD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	**MD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Site:	Wickstrom 18-9H Pad Sec.18-T6N-R60W	**North Reference:**	True
Well:	Wickstrom 18-11H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-26-13)		

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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 270'FNL & 1419'FEL, Sec.18									
1.5	0.00	0.00	1.5	0.0	0.0	0.0	0.00	0.00	0.00
HARDLINE 600' SHL, Sec.7									
1.6	0.00	0.00	1.6	0.0	0.0	0.0	0.00	0.00	0.00
SECTION LINE									
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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
1,600.0	2.00	297.50	1,600.0	0.8	-1.5	0.9	2.00	2.00	0.00
1,700.0	4.00	297.50	1,699.8	3.2	-6.2	3.5	2.00	2.00	0.00
1,800.0	6.00	297.50	1,799.5	7.2	-13.9	7.9	2.00	2.00	0.00
1,900.0	8.00	297.50	1,898.7	12.9	-24.7	14.0	2.00	2.00	0.00
1,933.9	8.68	297.50	1,932.2	15.1	-29.1	16.5	2.00	2.00	0.00
2,000.0	8.68	297.50	1,997.6	19.7	-37.9	21.5	0.00	0.00	0.00
2,100.0	8.68	297.50	2,096.4	26.7	-51.3	29.0	0.00	0.00	0.00
2,200.0	8.68	297.50	2,195.3	33.7	-64.7	36.6	0.00	0.00	0.00
2,300.0	8.68	297.50	2,294.2	40.6	-78.1	44.2	0.00	0.00	0.00
2,400.0	8.68	297.50	2,393.0	47.6	-91.5	51.8	0.00	0.00	0.00
2,500.0	8.68	297.50	2,491.9	54.6	-104.9	59.3	0.00	0.00	0.00
2,600.0	8.68	297.50	2,590.7	61.5	-118.2	66.9	0.00	0.00	0.00
2,700.0	8.68	297.50	2,689.6	68.5	-131.6	74.5	0.00	0.00	0.00
2,800.0	8.68	297.50	2,788.4	75.5	-145.0	82.1	0.00	0.00	0.00
2,900.0	8.68	297.50	2,887.3	82.4	-158.4	89.6	0.00	0.00	0.00
3,000.0	8.68	297.50	2,986.1	89.4	-171.8	97.2	0.00	0.00	0.00
3,100.0	8.68	297.50	3,085.0	96.4	-185.2	104.8	0.00	0.00	0.00
3,200.0	8.68	297.50	3,183.8	103.3	-198.5	112.4	0.00	0.00	0.00
3,300.0	8.68	297.50	3,282.7	110.3	-211.9	119.9	0.00	0.00	0.00
3,400.0	8.68	297.50	3,381.6	117.3	-225.3	127.5	0.00	0.00	0.00
3,500.0	8.68	297.50	3,480.4	124.2	-238.7	135.1	0.00	0.00	0.00
3,600.0	8.68	297.50	3,579.3	131.2	-252.1	142.7	0.00	0.00	0.00
3,700.0	8.68	297.50	3,678.1	138.2	-265.5	150.2	0.00	0.00	0.00
3,800.0	8.68	297.50	3,777.0	145.1	-278.8	157.8	0.00	0.00	0.00
3,900.0	8.68	297.50	3,875.8	152.1	-292.2	165.4	0.00	0.00	0.00
4,000.0	8.68	297.50	3,974.7	159.1	-305.6	172.9	0.00	0.00	0.00
4,100.0	8.68	297.50	4,073.5	166.0	-319.0	180.5	0.00	0.00	0.00
4,200.0	8.68	297.50	4,172.4	173.0	-332.4	188.1	0.00	0.00	0.00
4,300.0	8.68	297.50	4,271.3	180.0	-345.8	195.7	0.00	0.00	0.00
4,400.0	8.68	297.50	4,370.1	186.9	-359.1	203.2	0.00	0.00	0.00
4,500.0	8.68	297.50	4,469.0	193.9	-372.5	210.8	0.00	0.00	0.00

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Site:	Wickstrom 18-9H Pad Sec.18-T6N-R60W	**North Reference:**	True
Well:	Wickstrom 18-11H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-26-13)		

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)
4,599.9	8.68	297.50	4,567.8	200.9	-385.9	218.4	0.00	0.00	0.00
4,600.0	8.68	297.50	4,567.8	200.9	-385.9	218.4	0.00	0.00	0.00
4,700.0	6.68	297.50	4,666.9	207.0	-397.8	225.1	2.00	-2.00	0.00
4,800.0	4.68	297.50	4,766.4	211.6	-406.5	230.1	2.00	-2.00	0.00
4,900.0	2.68	297.50	4,866.2	214.6	-412.2	233.3	2.00	-2.00	0.00
5,000.0	0.68	297.50	4,966.2	215.9	-414.8	234.8	2.00	-2.00	0.00
5,033.8	0.00	0.00	5,000.0	216.0	-415.0	234.9	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,066.2	216.0	-415.0	234.9	0.00	0.00	0.00
5,200.0	0.00	0.00	5,166.2	216.0	-415.0	234.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,266.2	216.0	-415.0	234.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,366.2	216.0	-415.0	234.9	0.00	0.00	0.00
5,417.6	0.00	0.00	5,383.8	216.0	-415.0	234.9	0.00	0.00	0.00
KOP #2									
5,500.0	6.59	359.83	5,466.0	220.7	-415.0	239.6	8.00	8.00	0.00
5,600.0	14.59	359.83	5,564.2	239.1	-415.1	257.9	8.00	8.00	0.00
5,700.0	22.59	359.83	5,658.9	270.9	-415.2	289.7	8.00	8.00	0.00
5,800.0	30.59	359.83	5,748.3	315.7	-415.3	334.4	8.00	8.00	0.00
5,900.0	38.59	359.83	5,830.5	372.4	-415.5	391.1	8.00	8.00	0.00
6,000.0	46.59	359.83	5,904.1	440.0	-415.7	458.7	8.00	8.00	0.00
6,100.0	54.59	359.83	5,967.5	517.2	-415.9	535.8	8.00	8.00	0.00
6,200.0	62.59	359.83	6,019.6	602.5	-416.2	621.0	8.00	8.00	0.00
6,300.0	70.59	359.83	6,059.3	694.2	-416.5	712.6	8.00	8.00	0.00
6,400.0	78.59	359.83	6,085.8	790.5	-416.7	808.8	8.00	8.00	0.00
6,500.0	86.59	359.83	6,098.7	889.6	-417.0	907.8	8.00	8.00	0.00
6,542.6	90.00	359.83	6,100.0	932.2	-417.2	950.4	8.00	8.00	0.00
6,543.1	90.00	359.83	6,100.0	932.7	-417.2	950.9	0.00	0.00	0.00
End of Build - 7" - Landing Pt. 660'FSL & 1837'FEL, Sec.7									
6,549.1	90.00	359.71	6,100.0	938.7	-417.2	956.9	2.00	0.00	-2.00
6,600.0	90.00	359.71	6,100.0	989.6	-417.5	1,007.7	0.00	0.00	0.00
6,700.0	90.00	359.71	6,100.0	1,089.6	-418.0	1,107.6	0.00	0.00	0.00
6,800.0	90.00	359.71	6,100.0	1,189.6	-418.5	1,207.5	0.00	0.00	0.00
6,900.0	90.00	359.71	6,100.0	1,289.6	-419.0	1,307.5	0.00	0.00	0.00
7,000.0	90.00	359.71	6,100.0	1,389.6	-419.5	1,407.4	0.00	0.00	0.00
7,100.0	90.00	359.71	6,100.0	1,489.5	-420.0	1,507.3	0.00	0.00	0.00
7,200.0	90.00	359.71	6,100.0	1,589.5	-420.6	1,607.2	0.00	0.00	0.00
7,300.0	90.00	359.71	6,100.0	1,689.5	-421.1	1,707.1	0.00	0.00	0.00
7,400.0	90.00	359.71	6,100.0	1,789.5	-421.6	1,807.0	0.00	0.00	0.00
7,500.0	90.00	359.71	6,100.0	1,889.5	-422.1	1,907.0	0.00	0.00	0.00
7,600.0	90.00	359.71	6,100.0	1,989.5	-422.6	2,006.9	0.00	0.00	0.00
7,700.0	90.00	359.71	6,100.0	2,089.5	-423.1	2,106.8	0.00	0.00	0.00
7,800.0	90.00	359.71	6,100.0	2,189.5	-423.6	2,206.7	0.00	0.00	0.00
7,900.0	90.00	359.71	6,100.0	2,289.5	-424.2	2,306.6	0.00	0.00	0.00
8,000.0	90.00	359.71	6,100.0	2,389.5	-424.7	2,406.5	0.00	0.00	0.00
8,100.0	90.00	359.71	6,100.0	2,489.5	-425.2	2,506.5	0.00	0.00	0.00
8,200.0	90.00	359.71	6,100.0	2,589.5	-425.7	2,606.4	0.00	0.00	0.00
8,300.0	90.00	359.71	6,100.0	2,689.5	-426.2	2,706.3	0.00	0.00	0.00
8,400.0	90.00	359.71	6,100.0	2,789.5	-426.7	2,806.2	0.00	0.00	0.00
8,500.0	90.00	359.71	6,100.0	2,889.5	-427.2	2,906.1	0.00	0.00	0.00
8,600.0	90.00	359.71	6,100.0	2,989.5	-427.8	3,006.0	0.00	0.00	0.00
8,700.0	90.00	359.71	6,100.0	3,089.5	-428.3	3,106.0	0.00	0.00	0.00
8,800.0	90.00	359.71	6,100.0	3,189.5	-428.8	3,205.9	0.00	0.00	0.00
8,900.0	90.00	359.71	6,100.0	3,289.5	-429.3	3,305.8	0.00	0.00	0.00
9,000.0	90.00	359.71	6,100.0	3,389.5	-429.8	3,405.7	0.00	0.00	0.00

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Company:	Condor Energy	**TVD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	**MD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Site:	Wickstrom 18-9H Pad Sec.18-T6N-R60W	**North Reference:**	True
Well:	Wickstrom 18-11H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-26-13)		

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)
9,100.0	90.00	359.71	6,100.0	3,489.5	-430.3	3,505.6	0.00	0.00	0.00
9,200.0	90.00	359.71	6,100.0	3,589.5	-430.8	3,605.5	0.00	0.00	0.00
9,300.0	90.00	359.71	6,100.0	3,689.5	-431.4	3,705.5	0.00	0.00	0.00
9,400.0	90.00	359.71	6,100.0	3,789.5	-431.9	3,805.4	0.00	0.00	0.00
9,500.0	90.00	359.71	6,100.0	3,889.5	-432.4	3,905.3	0.00	0.00	0.00
9,600.0	90.00	359.71	6,100.0	3,989.5	-432.9	4,005.2	0.00	0.00	0.00
9,700.0	90.00	359.71	6,100.0	4,089.5	-433.4	4,105.1	0.00	0.00	0.00
9,800.0	90.00	359.71	6,100.0	4,189.5	-433.9	4,205.0	0.00	0.00	0.00
9,900.0	90.00	359.71	6,100.0	4,289.5	-434.4	4,305.0	0.00	0.00	0.00
10,000.0	90.00	359.71	6,100.0	4,389.5	-435.0	4,404.9	0.00	0.00	0.00
10,100.0	90.00	359.71	6,100.0	4,489.5	-435.5	4,504.8	0.00	0.00	0.00
10,200.0	90.00	359.71	6,100.0	4,589.5	-436.0	4,604.7	0.00	0.00	0.00
10,300.0	90.00	359.71	6,100.0	4,689.5	-436.5	4,704.6	0.00	0.00	0.00
10,400.0	90.00	359.71	6,100.0	4,789.5	-437.0	4,804.5	0.00	0.00	0.00
10,500.0	90.00	359.71	6,100.0	4,889.5	-437.5	4,904.4	0.00	0.00	0.00
10,600.0	90.00	359.71	6,100.0	4,989.5	-438.1	5,004.4	0.00	0.00	0.00
10,700.0	90.00	359.71	6,100.0	5,089.5	-438.6	5,104.3	0.00	0.00	0.00
10,800.0	90.00	359.71	6,100.0	5,189.5	-439.1	5,204.2	0.00	0.00	0.00
10,900.0	90.00	359.71	6,100.0	5,289.5	-439.6	5,304.1	0.00	0.00	0.00
11,000.0	90.00	359.71	6,100.0	5,389.5	-440.1	5,404.0	0.00	0.00	0.00
11,100.0	90.00	359.71	6,100.0	5,489.5	-440.6	5,503.9	0.00	0.00	0.00
11,200.0	90.00	359.71	6,100.0	5,589.5	-441.1	5,603.9	0.00	0.00	0.00
11,300.0	90.00	359.71	6,100.0	5,689.5	-441.7	5,703.8	0.00	0.00	0.00
11,400.0	90.00	359.71	6,100.0	5,789.5	-442.2	5,803.7	0.00	0.00	0.00
11,500.0	90.00	359.71	6,100.0	5,889.5	-442.7	5,903.6	0.00	0.00	0.00
11,600.0	90.00	359.71	6,100.0	5,989.5	-443.2	6,003.5	0.00	0.00	0.00
11,700.0	90.00	359.71	6,100.0	6,089.5	-443.7	6,103.4	0.00	0.00	0.00
11,800.0	90.00	359.71	6,100.0	6,189.5	-444.2	6,203.4	0.00	0.00	0.00
11,900.0	90.00	359.71	6,100.0	6,289.5	-444.7	6,303.3	0.00	0.00	0.00
12,000.0	90.00	359.71	6,100.0	6,389.5	-445.3	6,403.2	0.00	0.00	0.00
12,100.0	90.00	359.71	6,100.0	6,489.5	-445.8	6,503.1	0.00	0.00	0.00
12,200.0	90.00	359.71	6,100.0	6,589.5	-446.3	6,603.0	0.00	0.00	0.00
12,300.0	90.00	359.71	6,100.0	6,689.5	-446.8	6,702.9	0.00	0.00	0.00
12,400.0	90.00	359.71	6,100.0	6,789.5	-447.3	6,802.9	0.00	0.00	0.00
12,500.0	90.00	359.71	6,100.0	6,889.5	-447.8	6,902.8	0.00	0.00	0.00
12,600.0	90.00	359.71	6,100.0	6,989.5	-448.3	7,002.7	0.00	0.00	0.00
12,700.0	90.00	359.71	6,100.0	7,089.5	-448.9	7,102.6	0.00	0.00	0.00
12,800.0	90.00	359.71	6,100.0	7,189.5	-449.4	7,202.5	0.00	0.00	0.00
12,900.0	90.00	359.71	6,100.0	7,289.5	-449.9	7,302.4	0.00	0.00	0.00
13,000.0	90.00	359.71	6,100.0	7,389.5	-450.4	7,402.4	0.00	0.00	0.00
13,100.0	90.00	359.71	6,100.0	7,489.5	-450.9	7,502.3	0.00	0.00	0.00
13,200.0	90.00	359.71	6,100.0	7,589.5	-451.4	7,602.2	0.00	0.00	0.00
13,300.0	90.00	359.71	6,100.0	7,689.5	-451.9	7,702.1	0.00	0.00	0.00
13,400.0	90.00	359.71	6,100.0	7,789.5	-452.5	7,802.0	0.00	0.00	0.00
13,500.0	90.00	359.71	6,100.0	7,889.5	-453.0	7,901.9	0.00	0.00	0.00
13,600.0	90.00	359.71	6,100.0	7,989.5	-453.5	8,001.9	0.00	0.00	0.00
13,700.0	90.00	359.71	6,100.0	8,089.5	-454.0	8,101.8	0.00	0.00	0.00
13,800.0	90.00	359.71	6,100.0	8,189.5	-454.5	8,201.7	0.00	0.00	0.00
13,900.0	90.00	359.71	6,100.0	8,289.5	-455.0	8,301.6	0.00	0.00	0.00
14,000.0	90.00	359.71	6,100.0	8,389.5	-455.5	8,401.5	0.00	0.00	0.00
14,100.0	90.00	359.71	6,100.0	8,489.5	-456.1	8,501.4	0.00	0.00	0.00
14,200.0	90.00	359.71	6,100.0	8,589.5	-456.6	8,601.4	0.00	0.00	0.00
14,300.0	90.00	359.71	6,100.0	8,689.5	-457.1	8,701.3	0.00	0.00	0.00
14,400.0	90.00	359.71	6,100.0	8,789.5	-457.6	8,801.2	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Wickstrom 18-11H
Company:	Condor Energy	**TVD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	**MD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Site:	Wickstrom 18-9H Pad Sec.18-T6N-R60W	**North Reference:**	True
Well:	Wickstrom 18-11H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-26-13)		

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)
14,500.0	90.00	359.71	6,100.0	8,889.5	-458.1	8,901.1	0.00	0.00	0.00
14,600.0	90.00	359.71	6,100.0	8,989.5	-458.6	9,001.0	0.00	0.00	0.00
14,700.0	90.00	359.71	6,100.0	9,089.4	-459.1	9,100.9	0.00	0.00	0.00
14,800.0	90.00	359.71	6,100.0	9,189.4	-459.7	9,200.9	0.00	0.00	0.00
14,900.0	90.00	359.71	6,100.0	9,289.4	-460.2	9,300.8	0.00	0.00	0.00
15,000.0	90.00	359.71	6,100.0	9,389.4	-460.7	9,400.7	0.00	0.00	0.00
15,100.0	90.00	359.71	6,100.0	9,489.4	-461.2	9,500.6	0.00	0.00	0.00
15,200.0	90.00	359.71	6,100.0	9,589.4	-461.7	9,600.5	0.00	0.00	0.00
15,300.0	90.00	359.71	6,100.0	9,689.4	-462.2	9,700.4	0.00	0.00	0.00
15,400.0	90.00	359.71	6,100.0	9,789.4	-462.8	9,800.4	0.00	0.00	0.00
15,500.0	90.00	359.71	6,100.0	9,889.4	-463.3	9,900.3	0.00	0.00	0.00
15,600.0	90.00	359.71	6,100.0	9,989.4	-463.8	10,000.2	0.00	0.00	0.00
15,698.6	90.00	359.71	6,100.0	10,088.0	-464.3	10,098.7	0.00	0.00	0.00
BHL 660'FNL & 1866'FEL, Sec.6 - HARDLINE 600' BHL , Sec.6									

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SECTION LINE	0.00	0.00	1.6	268.1	858.4	1,426,340.49	3,381,024.28	40.495626	-104.129934
- plan misses target center by 899.3ft at 1.6ft MD (1.6 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1			1.6	0.0	0.0	1,426,340.49	3,381,024.28		
Point 2			1.6	0.0	-2,700.0	1,426,298.87	3,378,324.69		
BHL 660'FNL & 1866'	0.00	0.00	6,100.0	10,088.0	-464.3	1,436,138.53	3,379,550.42	40.522580	-104.134690
- plan hits target center									
- Point									
SHL 270'FNL & 1419'	0.00	0.00	1.0	0.0	0.0	1,426,059.24	3,380,170.13	40.494890	-104.133020
- plan hits target center									
- Point									
HARDLINE 600' SHL,	0.00	0.00	1.5	896.1	819.3	1,426,967.78	3,380,975.50	40.497349	-104.130074
- plan misses target center by 1214.2ft at 1.5ft MD (1.5 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1			1.5	0.0	0.0	1,426,967.78	3,380,975.50		
Point 2			1.5	0.0	-2,700.0	1,426,926.16	3,378,275.92		
Point 3			1.5	0.0	0.0	1,426,967.78	3,380,975.50		
Point 4			1.5	1,000.0	0.0	1,427,967.62	3,380,960.08		
Landing Pt. 660'FSL &	0.00	0.00	6,100.0	932.7	-417.2	1,426,985.32	3,379,738.64	40.497450	-104.134520
- plan hits target center									
- Point									
HARDLINE 600' BHL	0.00	0.00	1.5	10,148.1	802.3	1,436,218.08	3,380,815.87	40.522745	-104.130134
- plan misses target center by 6228.9ft at 15698.6ft MD (6100.0 TVD, 10088.0 N, -464.3 E)									
- Polygon									
Point 1			1.5	0.0	0.0	1,436,218.08	3,380,815.87		
Point 2			1.5	0.0	-2,700.0	1,436,176.46	3,378,116.28		
Point 3			1.5	0.0	0.0	1,436,218.08	3,380,815.87		
Point 4			1.5	-1,000.0	0.0	1,435,218.24	3,380,831.28		

Database:	Landmark	**Local Co-ordinate Reference:**	Well Wickstrom 18-11H
Company:	Condor Energy	**TVD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	**MD Reference:**	WELL @ 4721.8ft (RKB - 12.5')
Site:	Wickstrom 18-9H Pad Sec.18-T6N-R60W	**North Reference:**	True
Well:	Wickstrom 18-11H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-26-13)		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,543.1	6,100.0	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,500.0	1,500.0	0.0	0.0	KOP #1
5,417.6	5,383.8	216.0	-415.0	KOP #2
6,543.1	6,100.0	932.7	-417.2	End of Build