

Condor Energy

Well Name: **Wickstrom 18-8H**

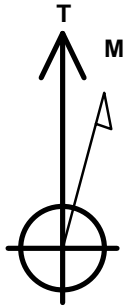
Surface Location: Wickstrom 18-2H Pad Sec.18-T6N-R60W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4700.1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1425986.69	3377820.85	40.494790	-104.141470	
RKB - 12.5' WELL @ 4712.6ft (RKB - 12.5')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINE 600' SHL	-4.9	-285.9	1541.6	Polygon
SECTION LINE	-4.9	314.1	1541.6	Polygon
SHL 313'FNL & 1659'FWL, Sec.18	1.0	0.0	0.0	Point
HARDLINE 600' BHL	1.8	-9623.3	-930.9	Polygon
BHL 660'FSL & 2383'FWL, Sec.19	6100.0	-9559.7	851.4	Point
Landing Pt. 660'FNL & 2640'FWL	6100.0	-349.7	987.4	Point



Azimuths to True North
Magnetic North: 8.25°

Magnetic Field
Strength: 53024.3snT
Dip Angle: 67.15°
Date: 7/24/2013
Model: IGRF2010

Wickstrom 18-2H Pad Sec.18-T6N-R60W
Wickstrom 18-8H
Plan #1 (7-24-13)
9:10, July 25 2013

ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP #1
5383.8	5506.4	KOP #2
6100.0	6632.0	End of Build

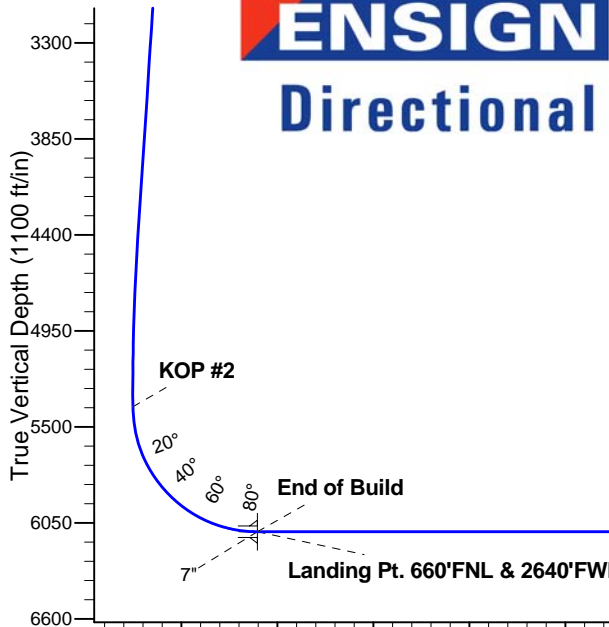
South(-)/North(+) (3000 ft/in)

SHL 313'FNL & 1659'FWL, Sec.18

Casing Pt.
660'FNL &
2640'FWL, Sec.18

BHL 660'FSL & 2383'FWL, Sec.19

West(-)/East(+) (3000 ft/in)



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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	894.1	13.88	69.81	887.3	28.9	78.5	2.00	69.81	-21.8	
4	4628.5	13.88	69.81	4512.7	338.1	919.5	0.00	0.00	-255.2	
5	5322.6	0.00	0.00	5200.0	367.0	998.0	2.00	180.00	-277.0	
6	5506.4	0.00	0.00	5383.8	367.0	998.0	0.00	0.00	-277.0	
7	6631.4	90.00	180.85	6100.0	-349.1	987.4	8.00	180.85	435.3	
8	6632.0	90.00	180.85	6100.0	-349.7	987.4	0.00	0.00	435.9	Landing Pt. 660'FNL & 2640'FWL
9	6687.3	90.00	180.85	6100.0	-405.0	986.6	0.01	-90.00	490.9	
10	15843.0	90.00	180.85	6100.0	-9559.7	851.4	0.00	0.00	9597.5	BHL 660'FSL & 2383'FWL, Sec.19

BHL 660'FSL & 2383'FWL, Sec.19

Vertical Section at 174.91° (1100 ft/in)



Condor Energy

SEC.18-T6N-R60W

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

Wickstrom 18-8H

Wellbore #1

Plan: Plan #1 (7-24-13)

Standard Planning Report

25 July, 2013

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
894.1	13.88	69.81	887.3	28.9	78.5	2.00	2.00	0.00	69.81	
4,628.5	13.88	69.81	4,512.7	338.1	919.5	0.00	0.00	0.00	0.00	
5,322.6	0.00	0.00	5,200.0	367.0	998.0	2.00	-2.00	0.00	180.00	
5,506.4	0.00	0.00	5,383.8	367.0	998.0	0.00	0.00	0.00	0.00	
6,631.4	90.00	180.85	6,100.0	-349.1	987.4	8.00	8.00	0.00	180.85	
6,632.0	90.00	180.85	6,100.0	-349.7	987.4	0.00	0.00	0.00	0.00	Landing Pt. 660'FN
6,687.3	90.00	180.85	6,100.0	-405.0	986.6	0.01	0.00	-0.01	-90.00	
15,843.0	90.00	180.85	6,100.0	-9,559.7	851.4	0.00	0.00	0.00	0.00	BHL 660'FSL & 238'

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-8H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (RKB - 12.5')
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (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
HARDLINE 600' SHL - SECTION LINE									
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 313'FNL & 1659'FWL, Sec.18									
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
KOP #1									
300.0	2.00	69.81	300.0	0.6	1.6	-0.5	2.00	2.00	0.00
400.0	4.00	69.81	399.8	2.4	6.5	-1.8	2.00	2.00	0.00
500.0	6.00	69.81	499.5	5.4	14.7	-4.1	2.00	2.00	0.00
600.0	8.00	69.81	598.7	9.6	26.2	-7.3	2.00	2.00	0.00
700.0	10.00	69.81	697.5	15.0	40.8	-11.3	2.00	2.00	0.00
800.0	12.00	69.81	795.6	21.6	58.8	-16.3	2.00	2.00	0.00
894.1	13.88	69.81	887.3	28.9	78.5	-21.8	2.00	2.00	0.00
900.0	13.88	69.81	893.1	29.4	79.9	-22.2	0.00	0.00	0.00
1,000.0	13.88	69.81	990.1	37.6	102.4	-28.4	0.00	0.00	0.00
1,100.0	13.88	69.81	1,087.2	45.9	124.9	-34.7	0.00	0.00	0.00
1,200.0	13.88	69.81	1,184.3	54.2	147.4	-40.9	0.00	0.00	0.00
1,300.0	13.88	69.81	1,281.4	62.5	169.9	-47.2	0.00	0.00	0.00
1,400.0	13.88	69.81	1,378.5	70.8	192.5	-53.4	0.00	0.00	0.00
1,500.0	13.88	69.81	1,475.5	79.1	215.0	-59.7	0.00	0.00	0.00
1,600.0	13.88	69.81	1,572.6	87.3	237.5	-65.9	0.00	0.00	0.00
1,700.0	13.88	69.81	1,669.7	95.6	260.0	-72.2	0.00	0.00	0.00
1,800.0	13.88	69.81	1,766.8	103.9	282.5	-78.4	0.00	0.00	0.00
1,900.0	13.88	69.81	1,863.8	112.2	305.0	-84.7	0.00	0.00	0.00
2,000.0	13.88	69.81	1,960.9	120.5	327.6	-90.9	0.00	0.00	0.00
2,100.0	13.88	69.81	2,058.0	128.7	350.1	-97.2	0.00	0.00	0.00
2,200.0	13.88	69.81	2,155.1	137.0	372.6	-103.4	0.00	0.00	0.00
2,300.0	13.88	69.81	2,252.2	145.3	395.1	-109.7	0.00	0.00	0.00
2,400.0	13.88	69.81	2,349.2	153.6	417.6	-115.9	0.00	0.00	0.00
2,500.0	13.88	69.81	2,446.3	161.9	440.2	-122.2	0.00	0.00	0.00
2,600.0	13.88	69.81	2,543.4	170.1	462.7	-128.4	0.00	0.00	0.00
2,700.0	13.88	69.81	2,640.5	178.4	485.2	-134.7	0.00	0.00	0.00
2,800.0	13.88	69.81	2,737.6	186.7	507.7	-140.9	0.00	0.00	0.00
2,900.0	13.88	69.81	2,834.6	195.0	530.2	-147.2	0.00	0.00	0.00
3,000.0	13.88	69.81	2,931.7	203.3	552.7	-153.4	0.00	0.00	0.00
3,100.0	13.88	69.81	3,028.8	211.5	575.3	-159.7	0.00	0.00	0.00
3,200.0	13.88	69.81	3,125.9	219.8	597.8	-165.9	0.00	0.00	0.00
3,300.0	13.88	69.81	3,223.0	228.1	620.3	-172.2	0.00	0.00	0.00
3,400.0	13.88	69.81	3,320.0	236.4	642.8	-178.4	0.00	0.00	0.00
3,500.0	13.88	69.81	3,417.1	244.7	665.3	-184.7	0.00	0.00	0.00
3,600.0	13.88	69.81	3,514.2	253.0	687.9	-190.9	0.00	0.00	0.00
3,700.0	13.88	69.81	3,611.3	261.2	710.4	-197.2	0.00	0.00	0.00
3,800.0	13.88	69.81	3,708.3	269.5	732.9	-203.4	0.00	0.00	0.00
3,900.0	13.88	69.81	3,805.4	277.8	755.4	-209.7	0.00	0.00	0.00
4,000.0	13.88	69.81	3,902.5	286.1	777.9	-215.9	0.00	0.00	0.00
4,100.0	13.88	69.81	3,999.6	294.4	800.5	-222.2	0.00	0.00	0.00
4,200.0	13.88	69.81	4,096.7	302.6	823.0	-228.4	0.00	0.00	0.00
4,300.0	13.88	69.81	4,193.7	310.9	845.5	-234.7	0.00	0.00	0.00
4,400.0	13.88	69.81	4,290.8	319.2	868.0	-240.9	0.00	0.00	0.00
4,500.0	13.88	69.81	4,387.9	327.5	890.5	-247.2	0.00	0.00	0.00
4,600.0	13.88	69.81	4,485.0	335.8	913.0	-253.4	0.00	0.00	0.00
4,628.5	13.88	69.81	4,512.7	338.1	919.5	-255.2	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-8H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (RKB - 12.5')
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (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	12.45	69.81	4,582.3	343.7	934.7	-259.5	2.00	-2.00	0.00
4,800.0	10.45	69.81	4,680.3	350.6	953.4	-264.6	2.00	-2.00	0.00
4,900.0	8.45	69.81	4,778.9	356.3	968.8	-268.9	2.00	-2.00	0.00
5,000.0	6.45	69.81	4,878.1	360.7	981.0	-272.3	2.00	-2.00	0.00
5,100.0	4.45	69.81	4,977.6	364.0	989.9	-274.8	2.00	-2.00	0.00
5,200.0	2.45	69.81	5,077.4	366.1	995.5	-276.3	2.00	-2.00	0.00
5,300.0	0.45	69.81	5,177.4	367.0	997.9	-277.0	2.00	-2.00	0.00
5,322.6	0.00	0.00	5,200.0	367.0	998.0	-277.0	2.00	-2.00	0.00
5,400.0	0.00	0.00	5,277.4	367.0	998.0	-277.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,377.4	367.0	998.0	-277.0	0.00	0.00	0.00
5,506.4	0.00	0.00	5,383.8	367.0	998.0	-277.0	0.00	0.00	0.00
KOP #2									
5,600.0	7.49	180.85	5,477.1	360.9	997.9	-270.9	8.00	8.00	0.00
5,700.0	15.49	180.85	5,575.0	341.0	997.6	-251.2	8.00	8.00	0.00
5,800.0	23.49	180.85	5,669.2	307.7	997.1	-218.0	8.00	8.00	0.00
5,900.0	31.49	180.85	5,757.9	261.6	996.4	-172.1	8.00	8.00	0.00
6,000.0	39.49	180.85	5,839.2	203.6	995.6	-114.4	8.00	8.00	0.00
6,100.0	47.49	180.85	5,911.7	134.8	994.6	-46.1	8.00	8.00	0.00
6,200.0	55.49	180.85	5,973.9	56.6	993.4	31.7	8.00	8.00	0.00
6,300.0	63.49	180.85	6,024.7	-29.4	992.1	117.3	8.00	8.00	0.00
6,400.0	71.49	180.85	6,062.9	-121.7	990.8	209.1	8.00	8.00	0.00
6,500.0	79.49	180.85	6,088.0	-218.4	989.3	305.3	8.00	8.00	0.00
6,600.0	87.49	180.85	6,099.3	-317.7	987.9	404.1	8.00	8.00	0.00
6,631.4	90.00	180.85	6,100.0	-349.1	987.4	435.3	8.00	8.00	0.00
6,632.0	90.00	180.85	6,100.0	-349.7	987.4	435.9	0.00	0.00	0.00
End of Build - 7" - Landing Pt. 660°FNL & 2640°FNL									
6,687.3	90.00	180.85	6,100.0	-405.0	986.6	490.9	0.01	0.00	-0.01
6,700.0	90.00	180.85	6,100.0	-417.7	986.4	503.5	0.00	0.00	0.00
6,800.0	90.00	180.85	6,100.0	-517.7	984.9	603.0	0.00	0.00	0.00
6,900.0	90.00	180.85	6,100.0	-617.7	983.4	702.5	0.00	0.00	0.00
7,000.0	90.00	180.85	6,100.0	-717.7	981.9	801.9	0.00	0.00	0.00
7,100.0	90.00	180.85	6,100.0	-817.6	980.5	901.4	0.00	0.00	0.00
7,200.0	90.00	180.85	6,100.0	-917.6	979.0	1,000.9	0.00	0.00	0.00
7,300.0	90.00	180.85	6,100.0	-1,017.6	977.5	1,100.3	0.00	0.00	0.00
7,400.0	90.00	180.85	6,100.0	-1,117.6	976.0	1,199.8	0.00	0.00	0.00
7,500.0	90.00	180.85	6,100.0	-1,217.6	974.6	1,299.3	0.00	0.00	0.00
7,600.0	90.00	180.85	6,100.0	-1,317.6	973.1	1,398.7	0.00	0.00	0.00
7,700.0	90.00	180.85	6,100.0	-1,417.6	971.6	1,498.2	0.00	0.00	0.00
7,800.0	90.00	180.85	6,100.0	-1,517.6	970.1	1,597.6	0.00	0.00	0.00
7,900.0	90.00	180.85	6,100.0	-1,617.6	968.7	1,697.1	0.00	0.00	0.00
8,000.0	90.00	180.85	6,100.0	-1,717.5	967.2	1,796.6	0.00	0.00	0.00
8,100.0	90.00	180.85	6,100.0	-1,817.5	965.7	1,896.0	0.00	0.00	0.00
8,200.0	90.00	180.85	6,100.0	-1,917.5	964.2	1,995.5	0.00	0.00	0.00
8,300.0	90.00	180.85	6,100.0	-2,017.5	962.8	2,095.0	0.00	0.00	0.00
8,400.0	90.00	180.85	6,100.0	-2,117.5	961.3	2,194.4	0.00	0.00	0.00
8,500.0	90.00	180.85	6,100.0	-2,217.5	959.8	2,293.9	0.00	0.00	0.00
8,600.0	90.00	180.85	6,100.0	-2,317.5	958.3	2,393.4	0.00	0.00	0.00
8,700.0	90.00	180.85	6,100.0	-2,417.5	956.9	2,492.8	0.00	0.00	0.00
8,800.0	90.00	180.85	6,100.0	-2,517.5	955.4	2,592.3	0.00	0.00	0.00
8,900.0	90.00	180.85	6,100.0	-2,617.4	953.9	2,691.8	0.00	0.00	0.00
9,000.0	90.00	180.85	6,100.0	-2,717.4	952.4	2,791.2	0.00	0.00	0.00
9,100.0	90.00	180.85	6,100.0	-2,817.4	950.9	2,890.7	0.00	0.00	0.00
9,200.0	90.00	180.85	6,100.0	-2,917.4	949.5	2,990.1	0.00	0.00	0.00
9,300.0	90.00	180.85	6,100.0	-3,017.4	948.0	3,089.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-8H
Company:	Condor Energy	TVD Reference:	WELL @ 4712.6ft (RKB - 12.5')
Project:	SEC.18-T6N-R60W	MD Reference:	WELL @ 4712.6ft (RKB - 12.5')
Site:	Wickstrom 18-2H Pad Sec.18-T6N-R60W	North Reference:	True
Well:	Wickstrom 18-8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (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	180.85	6,100.0	-3,117.4	946.5	3,189.1	0.00	0.00	0.00
9,500.0	90.00	180.85	6,100.0	-3,217.4	945.0	3,288.5	0.00	0.00	0.00
9,600.0	90.00	180.85	6,100.0	-3,317.4	943.6	3,388.0	0.00	0.00	0.00
9,700.0	90.00	180.85	6,100.0	-3,417.4	942.1	3,487.5	0.00	0.00	0.00
9,800.0	90.00	180.85	6,100.0	-3,517.3	940.6	3,586.9	0.00	0.00	0.00
9,900.0	90.00	180.85	6,100.0	-3,617.3	939.1	3,686.4	0.00	0.00	0.00
10,000.0	90.00	180.85	6,100.0	-3,717.3	937.7	3,785.9	0.00	0.00	0.00
10,100.0	90.00	180.85	6,100.0	-3,817.3	936.2	3,885.3	0.00	0.00	0.00
10,200.0	90.00	180.85	6,100.0	-3,917.3	934.7	3,984.8	0.00	0.00	0.00
10,300.0	90.00	180.85	6,100.0	-4,017.3	933.2	4,084.2	0.00	0.00	0.00
10,400.0	90.00	180.85	6,100.0	-4,117.3	931.8	4,183.7	0.00	0.00	0.00
10,500.0	90.00	180.85	6,100.0	-4,217.3	930.3	4,283.2	0.00	0.00	0.00
10,600.0	90.00	180.85	6,100.0	-4,317.3	928.8	4,382.6	0.00	0.00	0.00
10,700.0	90.00	180.85	6,100.0	-4,417.3	927.3	4,482.1	0.00	0.00	0.00
10,800.0	90.00	180.85	6,100.0	-4,517.2	925.9	4,581.6	0.00	0.00	0.00
10,900.0	90.00	180.85	6,100.0	-4,617.2	924.4	4,681.0	0.00	0.00	0.00
11,000.0	90.00	180.85	6,100.0	-4,717.2	922.9	4,780.5	0.00	0.00	0.00
11,100.0	90.00	180.85	6,100.0	-4,817.2	921.4	4,880.0	0.00	0.00	0.00
11,200.0	90.00	180.85	6,100.0	-4,917.2	919.9	4,979.4	0.00	0.00	0.00
11,300.0	90.00	180.85	6,100.0	-5,017.2	918.5	5,078.9	0.00	0.00	0.00
11,400.0	90.00	180.85	6,100.0	-5,117.2	917.0	5,178.3	0.00	0.00	0.00
11,500.0	90.00	180.85	6,100.0	-5,217.2	915.5	5,277.8	0.00	0.00	0.00
11,600.0	90.00	180.85	6,100.0	-5,317.2	914.0	5,377.3	0.00	0.00	0.00
11,700.0	90.00	180.85	6,100.0	-5,417.1	912.6	5,476.7	0.00	0.00	0.00
11,800.0	90.00	180.85	6,100.0	-5,517.1	911.1	5,576.2	0.00	0.00	0.00
11,900.0	90.00	180.85	6,100.0	-5,617.1	909.6	5,675.7	0.00	0.00	0.00
12,000.0	90.00	180.85	6,100.0	-5,717.1	908.1	5,775.1	0.00	0.00	0.00
12,100.0	90.00	180.85	6,100.0	-5,817.1	906.7	5,874.6	0.00	0.00	0.00
12,200.0	90.00	180.85	6,100.0	-5,917.1	905.2	5,974.1	0.00	0.00	0.00
12,300.0	90.00	180.85	6,100.0	-6,017.1	903.7	6,073.5	0.00	0.00	0.00
12,400.0	90.00	180.85	6,100.0	-6,117.1	902.2	6,173.0	0.00	0.00	0.00
12,500.0	90.00	180.85	6,100.0	-6,217.1	900.8	6,272.5	0.00	0.00	0.00
12,600.0	90.00	180.85	6,100.0	-6,317.0	899.3	6,371.9	0.00	0.00	0.00
12,700.0	90.00	180.85	6,100.0	-6,417.0	897.8	6,471.4	0.00	0.00	0.00
12,800.0	90.00	180.85	6,100.0	-6,517.0	896.3	6,570.8	0.00	0.00	0.00
12,900.0	90.00	180.85	6,100.0	-6,617.0	894.9	6,670.3	0.00	0.00	0.00
13,000.0	90.00	180.85	6,100.0	-6,717.0	893.4	6,769.8	0.00	0.00	0.00
13,100.0	90.00	180.85	6,100.0	-6,817.0	891.9	6,869.2	0.00	0.00	0.00
13,200.0	90.00	180.85	6,100.0	-6,917.0	890.4	6,968.7	0.00	0.00	0.00
13,300.0	90.00	180.85	6,100.0	-7,017.0	888.9	7,068.2	0.00	0.00	0.00
13,400.0	90.00	180.85	6,100.0	-7,117.0	887.5	7,167.6	0.00	0.00	0.00
13,500.0	90.00	180.85	6,100.0	-7,216.9	886.0	7,267.1	0.00	0.00	0.00
13,600.0	90.00	180.85	6,100.0	-7,316.9	884.5	7,366.6	0.00	0.00	0.00
13,700.0	90.00	180.85	6,100.0	-7,416.9	883.0	7,466.0	0.00	0.00	0.00
13,800.0	90.00	180.85	6,100.0	-7,516.9	881.6	7,565.5	0.00	0.00	0.00
13,900.0	90.00	180.85	6,100.0	-7,616.9	880.1	7,664.9	0.00	0.00	0.00
14,000.0	90.00	180.85	6,100.0	-7,716.9	878.6	7,764.4	0.00	0.00	0.00
14,100.0	90.00	180.85	6,100.0	-7,816.9	877.1	7,863.9	0.00	0.00	0.00
14,200.0	90.00	180.85	6,100.0	-7,916.9	875.7	7,963.3	0.00	0.00	0.00
14,300.0	90.00	180.85	6,100.0	-8,016.9	874.2	8,062.8	0.00	0.00	0.00
14,400.0	90.00	180.85	6,100.0	-8,116.8	872.7	8,162.3	0.00	0.00	0.00
14,500.0	90.00	180.85	6,100.0	-8,216.8	871.2	8,261.7	0.00	0.00	0.00
14,600.0	90.00	180.85	6,100.0	-8,316.8	869.8	8,361.2	0.00	0.00	0.00
14,700.0	90.00	180.85	6,100.0	-8,416.8	868.3	8,460.7	0.00	0.00	0.00

Database: Landmark
Company: Condor Energy
Project: SEC.18-T6N-R60W
Site: Wickstrom 18-2H Pad Sec.18-T6N-R60W
Well: Wickstrom 18-8H
Wellbore: Wellbore #1
Design: Plan #1 (7-24-13)

Local Co-ordinate Reference: Well Wickstrom 18-8H
TVD Reference: WELL @ 4712.6ft (RKB - 12.5')
MD Reference: WELL @ 4712.6ft (RKB - 12.5')
North Reference: True
Survey Calculation Method: Minimum Curvature

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	180.85	6,100.0	-8,516.8	866.8	8,560.1	0.00	0.00	0.00
14,900.0	90.00	180.85	6,100.0	-8,616.8	865.3	8,659.6	0.00	0.00	0.00
15,000.0	90.00	180.85	6,100.0	-8,716.8	863.9	8,759.0	0.00	0.00	0.00
15,100.0	90.00	180.85	6,100.0	-8,816.8	862.4	8,858.5	0.00	0.00	0.00
15,200.0	90.00	180.85	6,100.0	-8,916.8	860.9	8,958.0	0.00	0.00	0.00
15,300.0	90.00	180.85	6,100.0	-9,016.8	859.4	9,057.4	0.00	0.00	0.00
15,400.0	90.00	180.85	6,100.0	-9,116.7	857.9	9,156.9	0.00	0.00	0.00
15,500.0	90.00	180.85	6,100.0	-9,216.7	856.5	9,256.4	0.00	0.00	0.00
15,600.0	90.00	180.85	6,100.0	-9,316.7	855.0	9,355.8	0.00	0.00	0.00
15,700.0	90.00	180.85	6,100.0	-9,416.7	853.5	9,455.3	0.00	0.00	0.00
15,800.0	90.00	180.85	6,100.0	-9,516.7	852.0	9,554.8	0.00	0.00	0.00
15,843.0	90.00	180.85	6,100.0	-9,559.7	851.4	9,597.5	0.00	0.00	0.00

HARDLINE 600' BHL - BHL 660'FSL & 2383'FWL, Sec.19

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,632.0	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)	
200.0	200.0	0.0	0.0	KOP #1
5,506.4	5,383.8	367.0	998.0	KOP #2
6,632.0	6,100.0	-349.7	987.4	End of Build