

Condor Energy

Well Name: **Wickstrom 18-9H**

Surface Location: Wickstrom 18-9H Pad Sec.18-T6N-R60W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

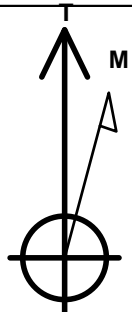
Ground Elevation: 4709.3

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1426030.09	3380170.58	40.494810	-104.133020	

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

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 300'FNL & 1419'FEL, Sec.18	1.0	0.0	0.0	Point
HARDLINE 600' BHL , Sec.6	1.5	10177.2	802.3	Polygon
HARDLINE 600' SHL, Sec.7	1.5	925.2	819.3	Polygon
SECTION LINE	1.6	297.2	858.4	Polygon
BHL 660'FNL & 2469'FEL, Sec.6	6100.0	10117.2	-1067.6	Point
Landing Pt. 660'FSL & 2426'FEL, Sec.7	6100.0	961.8	-1006.8	Point



Azimuths to True North
Magnetic North: 8.24°

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

Wickstrom 18-9H Pad Sec.18-T6N-R60W
Wickstrom 18-9H
Plan #1 (7-26-13)
17:12, July 26 2013

ANNOTATIONS

TVD	MD	Annotation
200.0	200.0	KOP #1
5383.8	5504.2	KOP #2
6100.0	6629.9	End of Build

South(-)/North(+) (3100 ft/in)

BHL 660'FNL & 2469'FEL, Sec.6

HARDLINE 600' BHL , Sec.6

Casing Pt. 660'FSL & 2426'FEL, Sec.7

Landing Pt. 660'FSL & 2426'FEL, Sec.7

HARDLINE 600' SHL, Sec.7

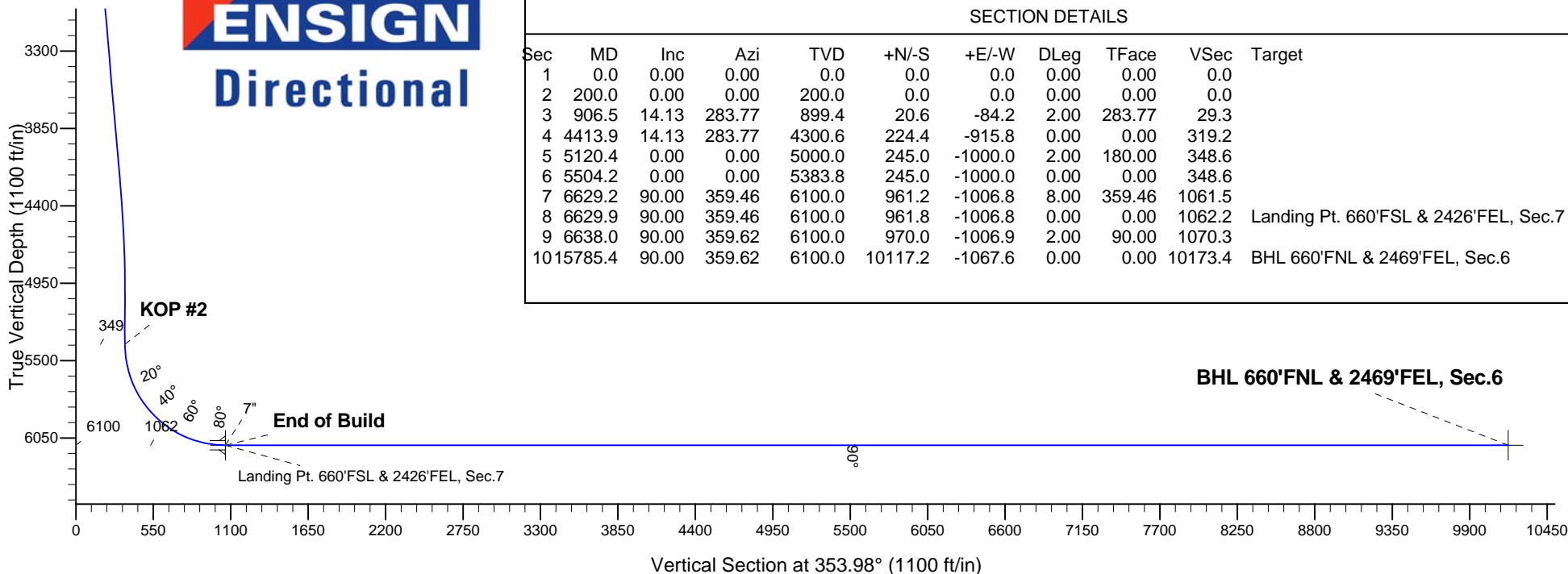
SECTION LINE

SHL 300'FNL & 1419'FEL, Sec.18

Wickstrom 18-9H

West(-)/East(+) (3100 ft/in)

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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	906.5	14.13	283.77	899.4	20.6	-84.2	2.00	283.77	29.3	
4	4413.9	14.13	283.77	4300.6	224.4	-915.8	0.00	0.00	319.2	
5	5120.4	0.00	0.00	5000.0	245.0	-1000.0	2.00	180.00	348.6	
6	5504.2	0.00	0.00	5383.8	245.0	-1000.0	0.00	0.00	348.6	
7	6629.2	90.00	359.46	6100.0	961.2	-1006.8	8.00	359.46	1061.5	
8	6629.9	90.00	359.46	6100.0	961.8	-1006.8	0.00	0.00	1062.2	Landing Pt. 660'FSL & 2426'FEL, Sec.7
9	6638.0	90.00	359.62	6100.0	970.0	-1006.9	2.00	90.00	1070.3	
10	15785.4	90.00	359.62	6100.0	10117.2	-1067.6	0.00	0.00	10173.4	BHL 660'FNL & 2469'FEL, Sec.6



Condor Energy

SEC.18-T6N-R60W

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

Wickstrom 18-9H

Wellbore #1

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

Standard Planning Report

26 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	
906.5	14.13	283.77	899.4	20.6	-84.2	2.00	2.00	0.00	283.77	
4,413.9	14.13	283.77	4,300.6	224.4	-915.8	0.00	0.00	0.00	0.00	
5,120.4	0.00	0.00	5,000.0	245.0	-1,000.0	2.00	-2.00	0.00	180.00	
5,504.2	0.00	0.00	5,383.8	245.0	-1,000.0	0.00	0.00	0.00	0.00	
6,629.2	90.00	359.46	6,100.0	961.2	-1,006.8	8.00	8.00	0.00	359.46	
6,629.9	90.00	359.46	6,100.0	961.8	-1,006.8	0.00	0.00	0.00	0.00	Landing Pt. 660'FSI
6,638.0	90.00	359.62	6,100.0	970.0	-1,006.9	2.00	0.00	2.00	90.00	
15,785.4	90.00	359.62	6,100.0	10,117.2	-1,067.6	0.00	0.00	0.00	0.00	BHL 660'FNL & 246'

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-9H
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 18-9H	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 300'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
KOP #1									
300.0	2.00	283.77	300.0	0.4	-1.7	0.6	2.00	2.00	0.00
400.0	4.00	283.77	399.8	1.7	-6.8	2.4	2.00	2.00	0.00
500.0	6.00	283.77	499.5	3.7	-15.2	5.3	2.00	2.00	0.00
600.0	8.00	283.77	598.7	6.6	-27.1	9.4	2.00	2.00	0.00
700.0	10.00	283.77	697.5	10.4	-42.3	14.7	2.00	2.00	0.00
800.0	12.00	283.77	795.6	14.9	-60.8	21.2	2.00	2.00	0.00
900.0	14.00	283.77	893.1	20.2	-82.7	28.8	2.00	2.00	0.00
906.5	14.13	283.77	899.4	20.6	-84.2	29.3	2.00	2.00	0.00
1,000.0	14.13	283.77	990.0	26.1	-106.4	37.1	0.00	0.00	0.00
1,100.0	14.13	283.77	1,087.0	31.9	-130.1	45.3	0.00	0.00	0.00
1,200.0	14.13	283.77	1,184.0	37.7	-153.8	53.6	0.00	0.00	0.00
1,300.0	14.13	283.77	1,281.0	43.5	-177.5	61.9	0.00	0.00	0.00
1,400.0	14.13	283.77	1,377.9	49.3	-201.2	70.1	0.00	0.00	0.00
1,500.0	14.13	283.77	1,474.9	55.1	-224.9	78.4	0.00	0.00	0.00
1,600.0	14.13	283.77	1,571.9	60.9	-248.6	86.7	0.00	0.00	0.00
1,700.0	14.13	283.77	1,668.9	66.7	-272.3	94.9	0.00	0.00	0.00
1,800.0	14.13	283.77	1,765.8	72.5	-296.0	103.2	0.00	0.00	0.00
1,900.0	14.13	283.77	1,862.8	78.3	-319.8	111.5	0.00	0.00	0.00
2,000.0	14.13	283.77	1,959.8	84.1	-343.5	119.7	0.00	0.00	0.00
2,100.0	14.13	283.77	2,056.8	90.0	-367.2	128.0	0.00	0.00	0.00
2,200.0	14.13	283.77	2,153.7	95.8	-390.9	136.3	0.00	0.00	0.00
2,300.0	14.13	283.77	2,250.7	101.6	-414.6	144.5	0.00	0.00	0.00
2,400.0	14.13	283.77	2,347.7	107.4	-438.3	152.8	0.00	0.00	0.00
2,500.0	14.13	283.77	2,444.6	113.2	-462.0	161.1	0.00	0.00	0.00
2,600.0	14.13	283.77	2,541.6	119.0	-485.7	169.3	0.00	0.00	0.00
2,700.0	14.13	283.77	2,638.6	124.8	-509.4	177.6	0.00	0.00	0.00
2,800.0	14.13	283.77	2,735.6	130.6	-533.1	185.8	0.00	0.00	0.00
2,900.0	14.13	283.77	2,832.5	136.4	-556.9	194.1	0.00	0.00	0.00
3,000.0	14.13	283.77	2,929.5	142.2	-580.6	202.4	0.00	0.00	0.00
3,100.0	14.13	283.77	3,026.5	148.0	-604.3	210.6	0.00	0.00	0.00
3,200.0	14.13	283.77	3,123.5	153.9	-628.0	218.9	0.00	0.00	0.00
3,300.0	14.13	283.77	3,220.4	159.7	-651.7	227.2	0.00	0.00	0.00
3,400.0	14.13	283.77	3,317.4	165.5	-675.4	235.4	0.00	0.00	0.00
3,500.0	14.13	283.77	3,414.4	171.3	-699.1	243.7	0.00	0.00	0.00
3,600.0	14.13	283.77	3,511.4	177.1	-722.8	252.0	0.00	0.00	0.00
3,700.0	14.13	283.77	3,608.3	182.9	-746.5	260.2	0.00	0.00	0.00
3,800.0	14.13	283.77	3,705.3	188.7	-770.3	268.5	0.00	0.00	0.00
3,900.0	14.13	283.77	3,802.3	194.5	-794.0	276.8	0.00	0.00	0.00
4,000.0	14.13	283.77	3,899.3	200.3	-817.7	285.0	0.00	0.00	0.00
4,100.0	14.13	283.77	3,996.2	206.1	-841.4	293.3	0.00	0.00	0.00
4,200.0	14.13	283.77	4,093.2	211.9	-865.1	301.6	0.00	0.00	0.00
4,300.0	14.13	283.77	4,190.2	217.8	-888.8	309.8	0.00	0.00	0.00
4,400.0	14.13	283.77	4,287.2	223.6	-912.5	318.1	0.00	0.00	0.00
4,413.9	14.13	283.77	4,300.6	224.4	-915.8	319.2	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 18-9H
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 18-9H	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)
4,500.0	12.41	283.77	4,384.4	229.1	-935.0	325.9	2.00	-2.00	0.00
4,600.0	10.41	283.77	4,482.5	233.8	-954.2	332.6	2.00	-2.00	0.00
4,700.0	8.41	283.77	4,581.1	237.7	-970.1	338.2	2.00	-2.00	0.00
4,800.0	6.41	283.77	4,680.3	240.7	-982.6	342.5	2.00	-2.00	0.00
4,900.0	4.41	283.77	4,779.8	243.0	-991.8	345.7	2.00	-2.00	0.00
5,000.0	2.41	283.77	4,879.6	244.4	-997.5	347.7	2.00	-2.00	0.00
5,100.0	0.41	283.77	4,979.6	245.0	-999.9	348.6	2.00	-2.00	0.00
5,120.4	0.00	0.00	5,000.0	245.0	-1,000.0	348.6	2.00	-2.00	0.00
5,200.0	0.00	0.00	5,079.6	245.0	-1,000.0	348.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,179.6	245.0	-1,000.0	348.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,279.6	245.0	-1,000.0	348.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,379.6	245.0	-1,000.0	348.6	0.00	0.00	0.00
5,504.2	0.00	0.00	5,383.8	245.0	-1,000.0	348.6	0.00	0.00	0.00
KOP #2									
5,600.0	7.66	359.46	5,479.3	251.4	-1,000.1	355.0	8.00	8.00	0.00
5,700.0	15.66	359.46	5,577.2	271.6	-1,000.3	375.1	8.00	8.00	0.00
5,800.0	23.66	359.46	5,671.3	305.2	-1,000.6	408.5	8.00	8.00	0.00
5,900.0	31.66	359.46	5,759.8	351.6	-1,001.0	454.7	8.00	8.00	0.00
6,000.0	39.66	359.46	5,840.9	409.9	-1,001.6	512.7	8.00	8.00	0.00
6,100.0	47.66	359.46	5,913.2	478.8	-1,002.2	581.4	8.00	8.00	0.00
6,200.0	55.66	359.46	5,975.2	557.2	-1,003.0	659.4	8.00	8.00	0.00
6,300.0	63.66	359.46	6,025.7	643.5	-1,003.8	745.2	8.00	8.00	0.00
6,400.0	71.66	359.46	6,063.6	735.9	-1,004.7	837.2	8.00	8.00	0.00
6,500.0	79.66	359.46	6,088.4	832.7	-1,005.6	933.6	8.00	8.00	0.00
6,600.0	87.66	359.46	6,099.4	932.0	-1,006.5	1,032.5	8.00	8.00	0.00
6,629.2	90.00	359.46	6,100.0	961.2	-1,006.8	1,061.5	8.00	8.00	0.00
6,629.9	90.00	359.46	6,100.0	961.8	-1,006.8	1,062.2	0.00	0.00	0.00
End of Build - 7" - Landing Pt. 660'FSL & 2426'FEL, Sec.7									
6,638.0	90.00	359.62	6,100.0	970.0	-1,006.9	1,070.3	2.00	0.00	2.00
6,700.0	90.00	359.62	6,100.0	1,032.0	-1,007.3	1,132.0	0.00	0.00	0.00
6,800.0	90.00	359.62	6,100.0	1,132.0	-1,007.9	1,231.5	0.00	0.00	0.00
6,900.0	90.00	359.62	6,100.0	1,232.0	-1,008.6	1,331.0	0.00	0.00	0.00
7,000.0	90.00	359.62	6,100.0	1,332.0	-1,009.3	1,430.5	0.00	0.00	0.00
7,100.0	90.00	359.62	6,100.0	1,432.0	-1,009.9	1,530.0	0.00	0.00	0.00
7,200.0	90.00	359.62	6,100.0	1,532.0	-1,010.6	1,629.5	0.00	0.00	0.00
7,300.0	90.00	359.62	6,100.0	1,632.0	-1,011.3	1,729.1	0.00	0.00	0.00
7,400.0	90.00	359.62	6,100.0	1,732.0	-1,011.9	1,828.6	0.00	0.00	0.00
7,500.0	90.00	359.62	6,100.0	1,831.9	-1,012.6	1,928.1	0.00	0.00	0.00
7,600.0	90.00	359.62	6,100.0	1,931.9	-1,013.2	2,027.6	0.00	0.00	0.00
7,700.0	90.00	359.62	6,100.0	2,031.9	-1,013.9	2,127.1	0.00	0.00	0.00
7,800.0	90.00	359.62	6,100.0	2,131.9	-1,014.6	2,226.6	0.00	0.00	0.00
7,900.0	90.00	359.62	6,100.0	2,231.9	-1,015.2	2,326.2	0.00	0.00	0.00
8,000.0	90.00	359.62	6,100.0	2,331.9	-1,015.9	2,425.7	0.00	0.00	0.00
8,100.0	90.00	359.62	6,100.0	2,431.9	-1,016.6	2,525.2	0.00	0.00	0.00
8,200.0	90.00	359.62	6,100.0	2,531.9	-1,017.2	2,624.7	0.00	0.00	0.00
8,300.0	90.00	359.62	6,100.0	2,631.9	-1,017.9	2,724.2	0.00	0.00	0.00
8,400.0	90.00	359.62	6,100.0	2,731.9	-1,018.6	2,823.7	0.00	0.00	0.00
8,500.0	90.00	359.62	6,100.0	2,831.9	-1,019.2	2,923.2	0.00	0.00	0.00
8,600.0	90.00	359.62	6,100.0	2,931.9	-1,019.9	3,022.8	0.00	0.00	0.00
8,700.0	90.00	359.62	6,100.0	3,031.9	-1,020.5	3,122.3	0.00	0.00	0.00
8,800.0	90.00	359.62	6,100.0	3,131.9	-1,021.2	3,221.8	0.00	0.00	0.00
8,900.0	90.00	359.62	6,100.0	3,231.9	-1,021.9	3,321.3	0.00	0.00	0.00
9,000.0	90.00	359.62	6,100.0	3,331.9	-1,022.5	3,420.8	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 18-9H	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	359.62	6,100.0	3,431.9	-1,023.2	3,520.3	0.00	0.00	0.00	
9,200.0	90.00	359.62	6,100.0	3,531.9	-1,023.9	3,619.9	0.00	0.00	0.00	
9,300.0	90.00	359.62	6,100.0	3,631.9	-1,024.5	3,719.4	0.00	0.00	0.00	
9,400.0	90.00	359.62	6,100.0	3,731.9	-1,025.2	3,818.9	0.00	0.00	0.00	
9,500.0	90.00	359.62	6,100.0	3,831.9	-1,025.9	3,918.4	0.00	0.00	0.00	
9,600.0	90.00	359.62	6,100.0	3,931.9	-1,026.5	4,017.9	0.00	0.00	0.00	
9,700.0	90.00	359.62	6,100.0	4,031.9	-1,027.2	4,117.4	0.00	0.00	0.00	
9,800.0	90.00	359.62	6,100.0	4,131.9	-1,027.9	4,216.9	0.00	0.00	0.00	
9,900.0	90.00	359.62	6,100.0	4,231.9	-1,028.5	4,316.5	0.00	0.00	0.00	
10,000.0	90.00	359.62	6,100.0	4,331.9	-1,029.2	4,416.0	0.00	0.00	0.00	
10,100.0	90.00	359.62	6,100.0	4,431.9	-1,029.8	4,515.5	0.00	0.00	0.00	
10,200.0	90.00	359.62	6,100.0	4,531.9	-1,030.5	4,615.0	0.00	0.00	0.00	
10,300.0	90.00	359.62	6,100.0	4,631.9	-1,031.2	4,714.5	0.00	0.00	0.00	
10,400.0	90.00	359.62	6,100.0	4,731.9	-1,031.8	4,814.0	0.00	0.00	0.00	
10,500.0	90.00	359.62	6,100.0	4,831.9	-1,032.5	4,913.6	0.00	0.00	0.00	
10,600.0	90.00	359.62	6,100.0	4,931.9	-1,033.2	5,013.1	0.00	0.00	0.00	
10,700.0	90.00	359.62	6,100.0	5,031.9	-1,033.8	5,112.6	0.00	0.00	0.00	
10,800.0	90.00	359.62	6,100.0	5,131.9	-1,034.5	5,212.1	0.00	0.00	0.00	
10,900.0	90.00	359.62	6,100.0	5,231.9	-1,035.2	5,311.6	0.00	0.00	0.00	
11,000.0	90.00	359.62	6,100.0	5,331.9	-1,035.8	5,411.1	0.00	0.00	0.00	
11,100.0	90.00	359.62	6,100.0	5,431.9	-1,036.5	5,510.6	0.00	0.00	0.00	
11,200.0	90.00	359.62	6,100.0	5,531.9	-1,037.1	5,610.2	0.00	0.00	0.00	
11,300.0	90.00	359.62	6,100.0	5,631.9	-1,037.8	5,709.7	0.00	0.00	0.00	
11,400.0	90.00	359.62	6,100.0	5,731.9	-1,038.5	5,809.2	0.00	0.00	0.00	
11,500.0	90.00	359.62	6,100.0	5,831.9	-1,039.1	5,908.7	0.00	0.00	0.00	
11,600.0	90.00	359.62	6,100.0	5,931.9	-1,039.8	6,008.2	0.00	0.00	0.00	
11,700.0	90.00	359.62	6,100.0	6,031.9	-1,040.5	6,107.7	0.00	0.00	0.00	
11,800.0	90.00	359.62	6,100.0	6,131.9	-1,041.1	6,207.3	0.00	0.00	0.00	
11,900.0	90.00	359.62	6,100.0	6,231.9	-1,041.8	6,306.8	0.00	0.00	0.00	
12,000.0	90.00	359.62	6,100.0	6,331.8	-1,042.5	6,406.3	0.00	0.00	0.00	
12,100.0	90.00	359.62	6,100.0	6,431.8	-1,043.1	6,505.8	0.00	0.00	0.00	
12,200.0	90.00	359.62	6,100.0	6,531.8	-1,043.8	6,605.3	0.00	0.00	0.00	
12,300.0	90.00	359.62	6,100.0	6,631.8	-1,044.4	6,704.8	0.00	0.00	0.00	
12,400.0	90.00	359.62	6,100.0	6,731.8	-1,045.1	6,804.3	0.00	0.00	0.00	
12,500.0	90.00	359.62	6,100.0	6,831.8	-1,045.8	6,903.9	0.00	0.00	0.00	
12,600.0	90.00	359.62	6,100.0	6,931.8	-1,046.4	7,003.4	0.00	0.00	0.00	
12,700.0	90.00	359.62	6,100.0	7,031.8	-1,047.1	7,102.9	0.00	0.00	0.00	
12,800.0	90.00	359.62	6,100.0	7,131.8	-1,047.8	7,202.4	0.00	0.00	0.00	
12,900.0	90.00	359.62	6,100.0	7,231.8	-1,048.4	7,301.9	0.00	0.00	0.00	
13,000.0	90.00	359.62	6,100.0	7,331.8	-1,049.1	7,401.4	0.00	0.00	0.00	
13,100.0	90.00	359.62	6,100.0	7,431.8	-1,049.8	7,501.0	0.00	0.00	0.00	
13,200.0	90.00	359.62	6,100.0	7,531.8	-1,050.4	7,600.5	0.00	0.00	0.00	
13,300.0	90.00	359.62	6,100.0	7,631.8	-1,051.1	7,700.0	0.00	0.00	0.00	
13,400.0	90.00	359.62	6,100.0	7,731.8	-1,051.7	7,799.5	0.00	0.00	0.00	
13,500.0	90.00	359.62	6,100.0	7,831.8	-1,052.4	7,899.0	0.00	0.00	0.00	
13,600.0	90.00	359.62	6,100.0	7,931.8	-1,053.1	7,998.5	0.00	0.00	0.00	
13,700.0	90.00	359.62	6,100.0	8,031.8	-1,053.7	8,098.0	0.00	0.00	0.00	
13,800.0	90.00	359.62	6,100.0	8,131.8	-1,054.4	8,197.6	0.00	0.00	0.00	
13,900.0	90.00	359.62	6,100.0	8,231.8	-1,055.1	8,297.1	0.00	0.00	0.00	
14,000.0	90.00	359.62	6,100.0	8,331.8	-1,055.7	8,396.6	0.00	0.00	0.00	
14,100.0	90.00	359.62	6,100.0	8,431.8	-1,056.4	8,496.1	0.00	0.00	0.00	
14,200.0	90.00	359.62	6,100.0	8,531.8	-1,057.1	8,595.6	0.00	0.00	0.00	
14,300.0	90.00	359.62	6,100.0	8,631.8	-1,057.7	8,695.1	0.00	0.00	0.00	
14,400.0	90.00	359.62	6,100.0	8,731.8	-1,058.4	8,794.7	0.00	0.00	0.00	

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 - plan misses target center by 908.4ft at 1.6ft MD (1.6 TVD, 0.0 N, 0.0 E) - Polygon	0.00	0.00	1.6	297.2	858.4	1,426,340.49	3,381,024.28	40.495626	-104.129934
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		
SHL 300'FNL & 1419' - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,426,030.10	3,380,170.58	40.494810	-104.133020
BHL 660'FNL & 2469' - plan hits target center - Point	0.00	0.00	6,100.0	10,117.2	-1,067.6	1,436,129.25	3,378,947.21	40.522580	-104.136860
Landing Pt. 660'FSL & - plan hits target center - Point	0.00	0.00	6,100.0	961.8	-1,006.8	1,426,976.25	3,379,149.12	40.497450	-104.136640
HARDLINE 600' SHL, - plan misses target center by 1235.8ft at 1.5ft MD (1.5 TVD, 0.0 N, 0.0 E) - Polygon	0.00	0.00	1.5	925.2	819.3	1,426,967.78	3,380,975.50	40.497349	-104.130074
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		
HARDLINE 600' BHL - plan misses target center by 6379.0ft at 15785.4ft MD (6100.0 TVD, 10117.2 N, -1067.6 E) - Polygon	0.00	0.00	1.5	10,177.2	802.3	1,436,218.08	3,380,815.87	40.522745	-104.130134
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 18-9H
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 18-9H	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 (")
6,629.9	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	
5,504.2	5,383.8	245.0	-1,000.0	KOP #2	
6,629.9	6,100.0	961.9	-1,006.8	End of Build	