

Condor Energy

Well Name: **Wickstrom 17-2H**

Surface Location: Wickstrom 17-1H Pad Sec.17-T6N-R60W
North American Datum 1983, US State Plane 1983, Colorado Northern Zone

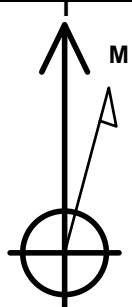
Ground Elevation: 4671.4

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1421398.73	3383433.01	40.481960	-104.121550	

Original Well Elev WELL @ 4683.9ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINE 600' BHL	1.0	-4952.8	600.0	Polygon
HARDLINE 600' SHL	1.0	-894.5	600.0	Polygon
SHL 295'FSL & 1740'FWL, Sec.17	1.0	0.0	0.0	Point
SECTION LINE	1.1	-295.4	600.0	Polygon
BHL 660'FSL & 1980'FWL, Sec.20	5995.0	-4892.8	247.6	Point
Landing Pt. 660'FNL & 1785'FWL, Sec.20	6006.2	-954.5	47.3	Point
WP1	6013.0	-2496.6	130.8	Point
WP2	6014.0	-3495.2	183.2	Point
WP3	6014.0	-4294.1	225.0	Point



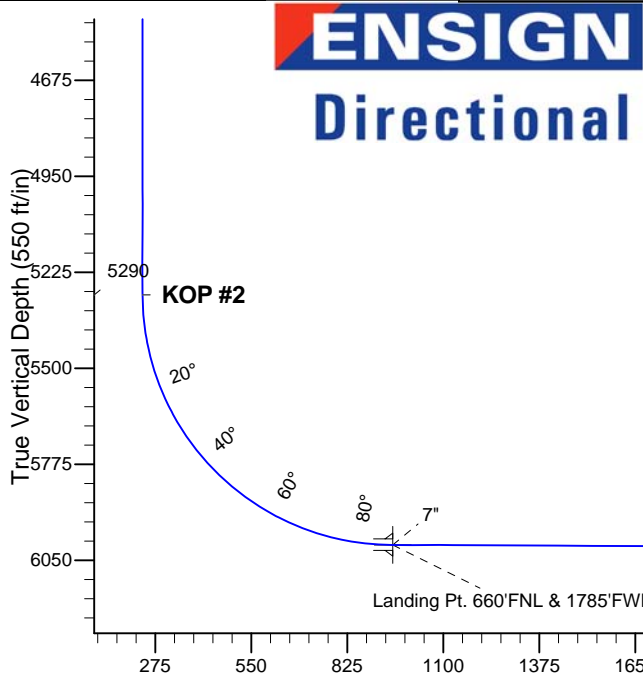
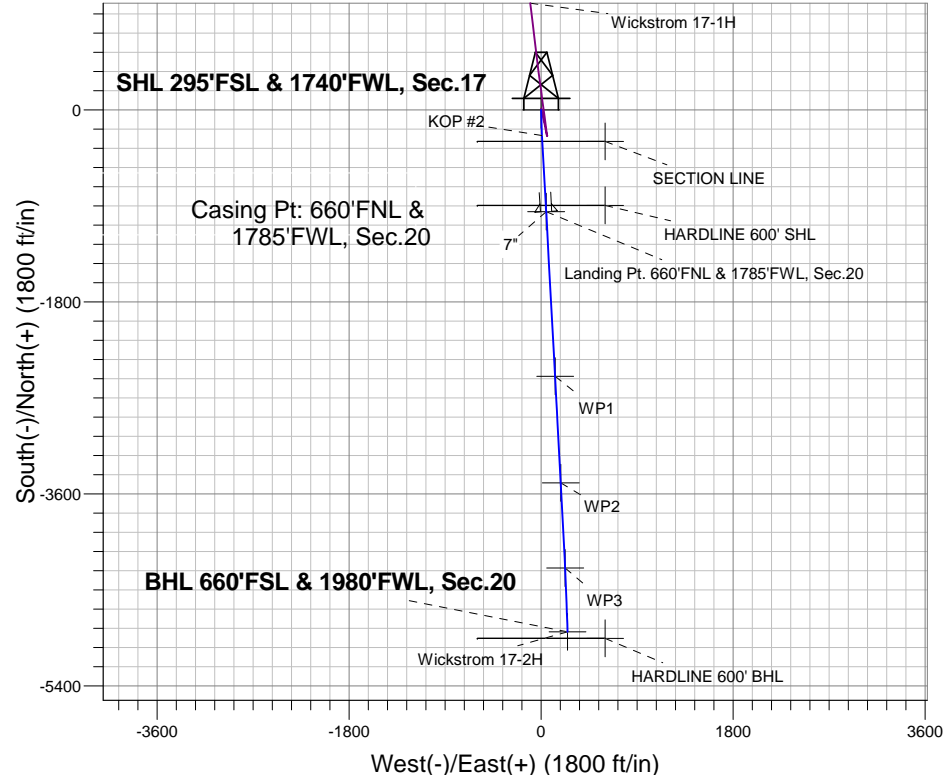
Azimuths to True North
Magnetic North: 8.29°

Magnetic Field
Strength: 53063.2nT
Dip Angle: 67.16°
Date: 2/25/2013
Model: IGRF2010

Wickstrom 17-1H Pad Sec.17-T6N-R60W
Wickstrom 17-2H
Plan #1 (2-25-13)
9:40, February 28 2013

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP #1
5290.2	5302.6	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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1311.8	6.24	178.32	1311.2	-16.9	0.5	2.00	178.32	17.0	
4	3200.6	6.24	178.32	3188.8	-222.1	6.5	0.00	0.00	222.1	
5	3512.4	0.00	0.00	3500.0	-239.0	7.0	2.00	180.00	239.0	
6	5302.6	0.00	0.00	5290.2	-239.0	7.0	0.00	0.00	239.0	
7	6427.3	90.00	176.78	6006.2	-953.9	47.3	8.00	176.78	955.1	
8	6427.9	90.00	176.78	6006.2	-954.5	47.3	0.00	0.00	955.7	Landing Pt. 660'FNL & 1785'FWL, Sec.20
9	6442.0	89.75	176.90	6006.2	-968.6	48.1	2.00	154.19	969.7	
10	7972.3	89.75	176.90	6013.0	-2496.6	130.8	0.00	0.00	2500.0	WP1
11	7983.3	89.94	177.00	6013.0	-2507.6	131.4	2.00	27.10	2511.1	
12	8972.3	89.94	177.00	6014.0	-3495.2	183.2	0.00	0.00	3500.0	WP2
13	8977.9	90.00	177.00	6014.0	-3500.8	183.5	1.00	0.33	3505.6	
14	9772.3	90.00	177.00	6014.0	-4294.1	225.0	0.00	0.00	4300.0	WP3
15	9882.4	92.00	177.92	6012.1	-4404.1	229.9	2.00	24.76	4410.1	
16	10371.7	92.00	177.92	5995.0	-4892.8	247.6	0.00	0.00	4899.0	BHL 660'FSL & 1980'FWL, Sec.20

BHL 660'FSL & 1980'FWL, Sec.20

Vertical Section at 177.10° (550 ft/in)



Condor Energy

SEC.17-T6N-R60W

Wickstrom 17-1H Pad Sec.17-T6N-R60W

Wickstrom 17-2H

Wellbore #1

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

Standard Planning Report

28 February, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 17-2H
Company:	Condor Energy	TVD Reference:	WELL @ 4683.9ft (Original Well Elev)
Project:	SEC.17-T6N-R60W	MD Reference:	WELL @ 4683.9ft (Original Well Elev)
Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Project	SEC.17-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 17-1H Pad Sec.17-T6N-R60W											
Site Position:						Northing:			1,421,413.31 ft			Latitude:			40.482000		
From:			Lat/Long			Easting:			3,383,432.79 ft			Longitude:			-104.121550		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.89 °		

Well	Wickstrom 17-2H					
Well Position	+N/-S	-14.6 ft	Northing:	1,421,398.73 ft	Latitude:	40.481960
	+E/-W	0.0 ft	Easting:	3,383,433.01 ft	Longitude:	-104.121550
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,671.4 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/25/2013	8.29	67.16	53,063

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	177.10

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,311.8	6.24	178.32	1,311.2	-16.9	0.5	2.00	2.00	0.00	178.32	
3,200.6	6.24	178.32	3,188.8	-222.1	6.5	0.00	0.00	0.00	0.00	
3,512.4	0.00	0.00	3,500.0	-239.0	7.0	2.00	-2.00	0.00	180.00	
5,302.6	0.00	0.00	5,290.2	-239.0	7.0	0.00	0.00	0.00	0.00	
6,427.3	90.00	176.78	6,006.2	-953.9	47.3	8.00	8.00	0.00	176.78	
6,427.9	90.00	176.78	6,006.2	-954.5	47.3	0.00	0.00	0.00	0.00	Landing Pt. 660'FN
6,442.0	89.75	176.90	6,006.2	-968.6	48.1	2.00	-1.80	0.87	154.19	
7,972.3	89.75	176.90	6,013.0	-2,496.6	130.8	0.00	0.00	0.00	0.00	WP1
7,983.3	89.94	177.00	6,013.0	-2,507.6	131.4	2.00	1.78	0.91	27.10	
8,972.3	89.94	177.00	6,014.0	-3,495.2	183.2	0.00	0.00	0.00	0.00	WP2
8,977.9	90.00	177.00	6,014.0	-3,500.8	183.5	1.00	1.00	0.01	0.33	
9,772.3	90.00	177.00	6,014.0	-4,294.1	225.0	0.00	0.00	0.00	0.00	WP3
9,882.4	92.00	177.92	6,012.1	-4,404.1	229.9	2.00	1.82	0.84	24.76	
10,371.7	92.00	177.92	5,995.0	-4,892.8	247.6	0.00	0.00	0.00	0.00	BHL 660'FSL & 196

COMPASS 2003.21 Build 46

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 17-2H
Company:	Condor Energy	TVD Reference:	WELL @ 4683.9ft (Original Well Elev)
Project:	SEC.17-T6N-R60W	MD Reference:	WELL @ 4683.9ft (Original Well Elev)
Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-2H	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	4,987.6	-239.0	7.0	239.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,087.6	-239.0	7.0	239.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,187.6	-239.0	7.0	239.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,287.6	-239.0	7.0	239.0	0.00	0.00	0.00
5,302.6	0.00	0.00	5,290.2	-239.0	7.0	239.0	0.00	0.00	0.00
KOP #2									
5,400.0	7.79	176.78	5,387.3	-245.6	7.4	245.7	8.00	8.00	0.00
5,500.0	15.80	176.78	5,485.1	-266.0	8.5	266.1	8.00	8.00	0.00
5,600.0	23.80	176.78	5,579.1	-299.8	10.4	299.9	8.00	8.00	0.00
5,700.0	31.80	176.78	5,667.5	-346.3	13.0	346.5	8.00	8.00	0.00
5,800.0	39.80	176.78	5,748.5	-404.7	16.3	405.0	8.00	8.00	0.00
5,900.0	47.80	176.78	5,820.6	-473.7	20.2	474.1	8.00	8.00	0.00
6,000.0	55.81	176.78	5,882.4	-552.1	24.6	552.7	8.00	8.00	0.00
6,100.0	63.81	176.78	5,932.7	-638.4	29.5	639.0	8.00	8.00	0.00
6,200.0	71.81	176.78	5,970.4	-730.7	34.7	731.5	8.00	8.00	0.00
6,300.0	79.81	176.78	5,994.9	-827.4	40.1	828.4	8.00	8.00	0.00
6,400.0	87.81	176.78	6,005.7	-926.6	45.7	927.8	8.00	8.00	0.00
6,427.3	90.00	176.78	6,006.2	-953.9	47.3	955.1	8.00	8.00	0.00
6,427.9	90.00	176.78	6,006.2	-954.5	47.3	955.6	0.00	0.00	0.00
7"									
6,442.0	89.75	176.90	6,006.2	-968.6	48.1	969.7	2.00	-1.80	0.87
6,500.0	89.75	176.90	6,006.5	-1,026.5	51.2	1,027.7	0.00	0.00	0.00
6,600.0	89.75	176.90	6,006.9	-1,126.3	56.6	1,127.7	0.00	0.00	0.00
6,700.0	89.75	176.90	6,007.4	-1,226.2	62.0	1,227.7	0.00	0.00	0.00
6,800.0	89.75	176.90	6,007.8	-1,326.0	67.4	1,327.7	0.00	0.00	0.00
6,900.0	89.75	176.90	6,008.3	-1,425.9	72.8	1,427.7	0.00	0.00	0.00
7,000.0	89.75	176.90	6,008.7	-1,525.7	78.3	1,527.7	0.00	0.00	0.00
7,100.0	89.75	176.90	6,009.1	-1,625.6	83.7	1,627.7	0.00	0.00	0.00
7,200.0	89.75	176.90	6,009.6	-1,725.4	89.1	1,727.7	0.00	0.00	0.00
7,300.0	89.75	176.90	6,010.0	-1,825.3	94.5	1,827.7	0.00	0.00	0.00
7,400.0	89.75	176.90	6,010.5	-1,925.1	99.9	1,927.7	0.00	0.00	0.00
7,500.0	89.75	176.90	6,010.9	-2,025.0	105.3	2,027.7	0.00	0.00	0.00
7,600.0	89.75	176.90	6,011.4	-2,124.8	110.7	2,127.7	0.00	0.00	0.00
7,700.0	89.75	176.90	6,011.8	-2,224.7	116.1	2,227.7	0.00	0.00	0.00
7,800.0	89.75	176.90	6,012.2	-2,324.6	121.5	2,327.7	0.00	0.00	0.00
7,900.0	89.75	176.90	6,012.7	-2,424.4	126.9	2,427.7	0.00	0.00	0.00
7,972.3	89.75	176.90	6,013.0	-2,496.6	130.8	2,500.0	0.00	0.00	0.00
7,983.3	89.94	177.00	6,013.0	-2,507.6	131.4	2,511.1	2.00	1.78	0.91
8,000.0	89.94	177.00	6,013.0	-2,524.3	132.3	2,527.7	0.00	0.00	0.00
8,100.0	89.94	177.00	6,013.1	-2,624.1	137.5	2,627.7	0.00	0.00	0.00
8,200.0	89.94	177.00	6,013.2	-2,724.0	142.8	2,727.7	0.00	0.00	0.00
8,300.0	89.94	177.00	6,013.3	-2,823.8	148.0	2,827.7	0.00	0.00	0.00
8,400.0	89.94	177.00	6,013.4	-2,923.7	153.2	2,927.7	0.00	0.00	0.00
8,500.0	89.94	177.00	6,013.5	-3,023.6	158.5	3,027.7	0.00	0.00	0.00
8,600.0	89.94	177.00	6,013.6	-3,123.4	163.7	3,127.7	0.00	0.00	0.00
8,700.0	89.94	177.00	6,013.7	-3,223.3	168.9	3,227.7	0.00	0.00	0.00
8,800.0	89.94	177.00	6,013.8	-3,323.2	174.2	3,327.7	0.00	0.00	0.00
8,900.0	89.94	177.00	6,013.9	-3,423.0	179.4	3,427.7	0.00	0.00	0.00
8,972.3	89.94	177.00	6,014.0	-3,495.2	183.2	3,500.0	0.00	0.00	0.00
8,977.9	90.00	177.00	6,014.0	-3,500.8	183.5	3,505.6	1.00	1.00	0.01
9,000.0	90.00	177.00	6,014.0	-3,522.9	184.6	3,527.7	0.00	0.00	0.00
9,100.0	90.00	177.00	6,014.0	-3,622.8	189.9	3,627.7	0.00	0.00	0.00
9,200.0	90.00	177.00	6,014.0	-3,722.6	195.1	3,727.7	0.00	0.00	0.00
9,300.0	90.00	177.00	6,014.0	-3,822.5	200.3	3,827.7	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 17-2H
Company:	Condor Energy	TVD Reference:	WELL @ 4683.9ft (Original Well Elev)
Project:	SEC.17-T6N-R60W	MD Reference:	WELL @ 4683.9ft (Original Well Elev)
Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-2H	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)
9,400.0	90.00	177.00	6,014.0	-3,922.3	205.6	3,927.7	0.00	0.00	0.00
9,500.0	90.00	177.00	6,014.0	-4,022.2	210.8	4,027.7	0.00	0.00	0.00
9,600.0	90.00	177.00	6,014.0	-4,122.1	216.0	4,127.7	0.00	0.00	0.00
9,700.0	90.00	177.00	6,014.0	-4,221.9	221.3	4,227.7	0.00	0.00	0.00
9,772.3	90.00	177.00	6,014.0	-4,294.1	225.0	4,300.0	0.00	0.00	0.00
9,800.0	90.50	177.23	6,013.9	-4,321.8	226.4	4,327.7	2.00	1.82	0.84
9,882.4	92.00	177.92	6,012.1	-4,404.1	229.9	4,410.1	2.00	1.82	0.84
9,900.0	92.00	177.92	6,011.5	-4,421.7	230.6	4,427.7	0.00	0.00	0.00
10,000.0	92.00	177.92	6,008.0	-4,521.6	234.2	4,527.6	0.00	0.00	0.00
10,100.0	92.00	177.92	6,004.5	-4,621.4	237.8	4,627.5	0.00	0.00	0.00
10,200.0	92.00	177.92	6,001.0	-4,721.3	241.4	4,727.5	0.00	0.00	0.00
10,300.0	92.00	177.92	5,997.5	-4,821.2	245.0	4,827.4	0.00	0.00	0.00
10,371.7	92.00	177.92	5,995.0	-4,892.8	247.6	4,899.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 17-2H
Company:	Condor Energy	TVD Reference:	WELL @ 4683.9ft (Original Well Elev)
Project:	SEC.17-T6N-R60W	MD Reference:	WELL @ 4683.9ft (Original Well Elev)
Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	
									Latitude Longitude
WP3	- plan hits target center	0.00	0.00	6,014.0	-4,294.1	225.0	1,417,108.79	3,383,724.77	40.470173 -104.120741
	- Point								
HARDLINE 600' BHL	- plan misses target center by 4989.0ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)	0.00	0.00	1.0	-4,952.8	600.0	1,416,456.03	3,384,109.91	40.468365 -104.119394
	- Polygon								
	Point 1			1.0	0.0	0.0	1,416,456.03	3,384,109.91	
	Point 2			1.0	0.0	-1,200.0	1,416,437.38	3,382,910.09	
Landing Pt. 660'FNL &	- plan hits target center	0.00	0.00	6,006.2	-954.5	47.3	1,420,445.11	3,383,495.14	40.479340 -104.121380
	- Point								
SECTION LINE	- plan misses target center by 668.8ft at 1.1ft MD (1.1 TVD, 0.0 N, 0.0 E)	0.00	0.00	1.1	-295.4	600.0	1,421,112.67	3,384,037.51	40.481149 -104.119393
	- Polygon								
	Point 1			1.1	0.0	0.0	1,421,112.67	3,384,037.51	
	Point 2			1.1	0.0	-1,200.0	1,421,094.02	3,382,837.70	
BHL 660'FSL & 1980'I	- plan hits target center	0.00	0.00	5,995.0	-4,892.8	247.6	1,416,510.58	3,383,756.66	40.468530 -104.120660
	- Point								
WP1	- plan hits target center	0.00	0.00	6,013.0	-2,496.6	130.8	1,418,904.58	3,383,602.64	40.475107 -104.121080
	- Point								
WP2	- plan hits target center	0.00	0.00	6,014.0	-3,495.2	183.2	1,417,906.93	3,383,670.49	40.472366 -104.120892
	- Point								
SHL 295'FSL & 1740'I	- plan hits target center	0.00	0.00	1.0	0.0	0.0	1,421,398.73	3,383,433.01	40.481960 -104.121550
	- Point								
HARDLINE 600' SHL	- plan misses target center by 1077.1ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)	0.00	0.00	1.0	-894.5	600.0	1,420,513.69	3,384,046.82	40.479505 -104.119393
	- Polygon								
	Point 1			1.0	0.0	0.0	1,420,513.69	3,384,046.82	
	Point 2			1.0	0.0	-1,200.0	1,420,495.04	3,382,847.01	

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
6,427.9	6,006.2	7"		7	7-1/2

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
1,000.0	1,000.0	0.0	0.0	KOP #1	
5,302.6	5,290.2	-239.0	7.0	KOP #2	



Condor Energy

SEC.17-T6N-R60W

Wickstrom 17-1H Pad Sec.17-T6N-R60W

Wickstrom 17-2H

Wellbore #1

Plan #1 (2-25-13)

Anticollision Report

28 February, 2013

Wickstrom 17-1H Pad Sec.17-T6N-R60W - Wickstrom 17-1H - 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	2,392.9	2,404.0	2,400.0	5.6	5.2	-168.25	-63.3	16.8	73.3	63.2	10.03	7.302		
2,500.0	2,492.4	2,504.0	2,499.5	5.8	5.4	-166.86	-73.7	19.0	74.1	63.6	10.49	7.067		
2,600.0	2,591.8	2,603.9	2,598.9	6.1	5.7	-165.51	-84.1	21.2	75.0	64.1	10.95	6.851		
2,700.0	2,691.2	2,703.9	2,698.3	6.4	5.9	-164.18	-94.4	23.5	75.9	64.5	11.42	6.651		
2,800.0	2,790.6	2,803.9	2,797.7	6.7	6.2	-162.89	-104.8	25.7	76.9	65.0	11.89	6.467		
2,900.0	2,890.0	2,903.9	2,897.1	7.0	6.5	-161.63	-115.1	27.9	77.9	65.5	12.38	6.296		
3,000.0	2,989.4	3,003.9	2,996.5	7.3	6.8	-160.41	-125.5	30.2	79.0	66.1	12.87	6.138		
3,100.0	3,088.8	3,103.8	3,096.0	7.6	7.0	-159.21	-135.8	32.4	80.0	66.7	13.36	5.991		
3,200.6	3,188.8	3,204.4	3,195.9	7.9	7.3	-158.05	-146.3	34.6	81.2	67.3	13.87	5.853		
3,300.0	3,287.8	3,303.8	3,294.8	8.2	7.6	-156.44	-156.6	36.9	80.7	66.3	14.38	5.614		
3,400.0	3,387.6	3,403.7	3,394.1	8.4	7.9	-153.69	-166.9	39.1	77.2	62.3	14.90	5.183		
3,500.0	3,487.6	3,503.3	3,493.2	8.6	8.2	-149.27	-177.2	41.3	70.9	55.4	15.46	4.584		
3,512.4	3,500.0	3,515.6	3,505.4	8.6	8.2	29.76	-178.5	41.6	69.9	54.3	15.64	4.470		
3,600.0	3,587.6	3,602.7	3,592.0	8.7	8.4	35.36	-187.5	43.5	63.3	47.1	16.22	3.902		
3,700.0	3,687.6	3,702.2	3,690.9	8.9	8.7	43.26	-197.8	45.7	56.6	39.7	16.93	3.346		
3,800.0	3,787.6	3,801.6	3,789.8	9.1	9.0	53.00	-208.1	48.0	51.3	33.7	17.67	2.905		
3,900.0	3,887.6	3,901.0	3,888.7	9.2	9.3	64.53	-218.4	50.2	47.8	29.5	18.40	2.601		
4,000.0	3,987.6	4,000.5	3,987.5	9.4	9.6	77.26	-228.7	52.4	46.6	27.6	18.99	2.451		
4,004.5	3,992.1	4,005.0	3,992.0	9.4	9.6	77.85	-229.2	52.5	46.5	27.5	19.01	2.448		
4,100.0	4,087.6	4,100.2	4,086.8	9.6	9.9	88.38	-237.7	54.3	47.4	28.0	19.38	2.443		
4,200.0	4,187.6	4,200.5	4,186.9	9.8	10.1	95.00	-243.2	55.5	48.7	29.0	19.67	2.476		
4,300.0	4,287.6	4,301.0	4,287.4	10.0	10.2	97.44	-245.4	56.0	49.4	29.4	20.00	2.471		
4,400.0	4,387.6	4,401.1	4,387.5	10.1	10.4	97.47	-245.4	56.0	49.4	29.1	20.37	2.427		
4,500.0	4,487.6	4,501.1	4,487.5	10.3	10.6	97.47	-245.4	56.0	49.4	28.7	20.73	2.384		
4,600.0	4,587.6	4,601.1	4,587.5	10.5	10.8	97.47	-245.4	56.0	49.4	28.3	21.09	2.343		
4,700.0	4,687.6	4,701.1	4,687.5	10.7	11.0	97.47	-245.4	56.0	49.4	28.0	21.46	2.302		
4,800.0	4,787.6	4,801.1	4,787.5	10.9	11.1	97.47	-245.4	56.0	49.4	27.6	21.84	2.263		
4,900.0	4,887.6	4,901.1	4,887.5	11.1	11.3	97.47	-245.4	56.0	49.4	27.2	22.21	2.225		
5,000.0	4,987.6	5,001.1	4,987.5	11.3	11.5	97.47	-245.4	56.0	49.4	26.8	22.59	2.188		
5,100.0	5,087.6	5,101.1	5,087.5	11.5	11.7	97.47	-245.4	56.0	49.4	26.4	22.97	2.151		
5,200.0	5,187.6	5,201.1	5,187.5	11.7	11.9	97.47	-245.4	56.0	49.4	26.1	23.36	2.116		
5,302.6	5,290.2	5,303.6	5,290.1	11.9	12.1	97.47	-245.4	56.0	49.4	25.7	23.75	2.081		
5,350.0	5,337.6	5,351.7	5,338.1	12.0	12.2	-82.91	-243.9	55.8	48.8	24.8	24.03	2.032		
5,391.9	5,379.3	5,393.2	5,379.4	12.1	12.2	-92.17	-240.0	55.3	48.2	23.9	24.26	1.986		
5,400.0	5,387.3	5,401.0	5,387.2	12.1	12.2	-94.55	-239.0	55.2	48.2	23.9	24.29	1.985 SF		
5,450.0	5,436.6	5,447.6	5,433.1	12.2	12.3	-111.79	-231.4	54.1	51.7	27.3	24.32	2.124		
5,500.0	5,485.1	5,490.5	5,474.9	12.4	12.3	-128.66	-221.7	52.9	63.5	39.5	24.02	2.643		
5,550.0	5,532.7	5,529.0	5,511.8	12.6	12.3	-141.04	-210.9	51.4	84.5	60.9	23.58	3.585		
5,600.0	5,579.1	5,562.8	5,543.7	12.9	12.3	-148.97	-199.9	50.0	113.1	89.9	23.14	4.887		
5,650.0	5,624.1	5,591.7	5,570.6	13.1	12.3	-153.82	-189.2	48.5	147.4	124.6	22.72	6.487		
5,700.0	5,667.5	5,616.0	5,592.8	13.4	12.3	-156.60	-179.5	47.3	185.9	163.7	22.28	8.344		
5,750.0	5,709.0	5,635.9	5,610.7	13.8	12.3	-157.89	-170.9	46.1	227.8	206.0	21.85	10.428		
5,800.0	5,748.5	5,650.0	5,623.2	14.2	12.3	-157.58	-164.6	45.3	272.3	250.8	21.47	12.684		
5,850.0	5,785.8	5,663.9	5,635.5	14.6	12.4	-156.57	-158.1	44.4	318.7	297.6	21.13	15.081		
5,900.0	5,820.6	5,672.8	5,643.3	15.0	12.4	-153.22	-153.8	43.8	366.5	345.4	21.10	17.370		
5,950.0	5,852.9	5,678.8	5,648.5	15.5	12.4	-146.11	-150.8	43.5	415.4	393.5	21.83	19.029		
6,000.0	5,882.4	5,682.2	5,651.4	16.1	12.4	-129.93	-149.2	43.2	464.8	440.2	24.58	18.909		
6,050.0	5,909.1	5,683.2	5,652.3	16.7	12.4	-92.13	-148.6	43.2	514.6	485.6	28.99	17.751		
6,100.0	5,932.7	5,682.3	5,651.5	17.3	12.4	-48.10	-149.1	43.2	564.4	539.8	24.57	22.971		
6,150.0	5,953.2	5,679.5	5,649.1	17.9	12.4	-27.15	-150.5	43.4	614.0	594.5	19.49	31.499		
6,200.0	5,970.4	5,675.1	5,645.3	18.6	12.4	-17.85	-152.7	43.7	663.2	646.3	16.93	39.173		
6,250.0	5,984.4	5,669.3	5,640.2	19.4	12.4	-12.97	-155.5	44.1	711.9	696.4	15.45	46.083		

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 17-2H
Project:	SEC.17-T6N-R60W	TVD Reference:	WELL @ 4683.9ft (Original Well Elev)
Reference Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	MD Reference:	WELL @ 4683.9ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 17-2H	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 17-1H Pad Sec.17-T6N-R60W - Wickstrom 17-1H - 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	
6,300.0	5,994.9	5,650.0	5,623.2	20.1	12.3	-9.67	-164.6	45.3	759.9	745.5	14.38	52.842	
6,350.0	6,002.0	5,650.0	5,623.2	20.9	12.3	-8.05	-164.6	45.3	806.7	792.9	13.74	58.695	
6,400.0	6,005.7	5,650.0	5,623.2	21.7	12.3	-6.85	-164.6	45.3	852.6	839.3	13.30	64.084	
6,427.3	6,006.2	5,650.0	5,623.2	22.1	12.3	-6.32	-164.6	45.3	877.3	864.1	13.15	66.737	
6,427.9	6,006.2	5,650.0	5,623.2	22.1	12.3	-6.32	-164.6	45.3	877.8	864.7	13.15	66.764	
6,442.0	6,006.2	5,650.0	5,623.2	22.3	12.3	-6.12	-164.6	45.3	890.5	877.3	13.21	67.429	
6,500.0	6,006.5	5,625.4	5,601.2	23.1	12.3	-5.91	-175.5	46.7	942.5	929.1	13.44	70.147	

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 17-2H
Project:	SEC.17-T6N-R60W	TVD Reference:	WELL @ 4683.9ft (Original Well Elev)
Reference Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	MD Reference:	WELL @ 4683.9ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 17-2H	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 @ 4683.9ft (Original Well Elev) Coordinates are relative to: Wickstrom 17-2H
 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: 0.89°



Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 17-2H
Project:	SEC.17-T6N-R60W	TVD Reference:	WELL @ 4683.9ft (Original Well Elev)
Reference Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	MD Reference:	WELL @ 4683.9ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 17-2H	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 @ 4683.9ft (Original Well Elev) Coordinates are relative to: Wickstrom 17-2H
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: 0.89°

