

Condor Energy

Well Name: **Wickstrom 17-1H**

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

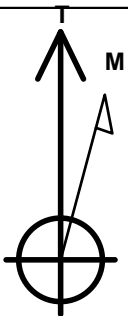
Ground Elevation: 4671.3

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1421413.30	3383432.79	40.482000	-104.121550	

Original Well Elev WELL @ 4683.8ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINE 600' BHL	1.0	9619.7	-1147.3	Polygon
HARDLINE 600' SHL	1.0	290.0	600.0	Polygon
SECTION LINE	1.0	-310.0	600.0	Polygon
SHL 310'FSL & 1740'FWL, SEC.17	1.0	0.0	0.0	Point
WP1 660'FSL & 1703'FWL	6007.5	349.8	-38.9	Point
BHL 660'FNL & 660'FWL, SEC.8	6042.0	9559.7	-1087.3	Point



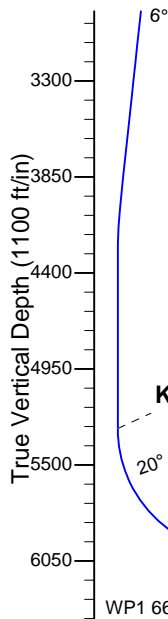
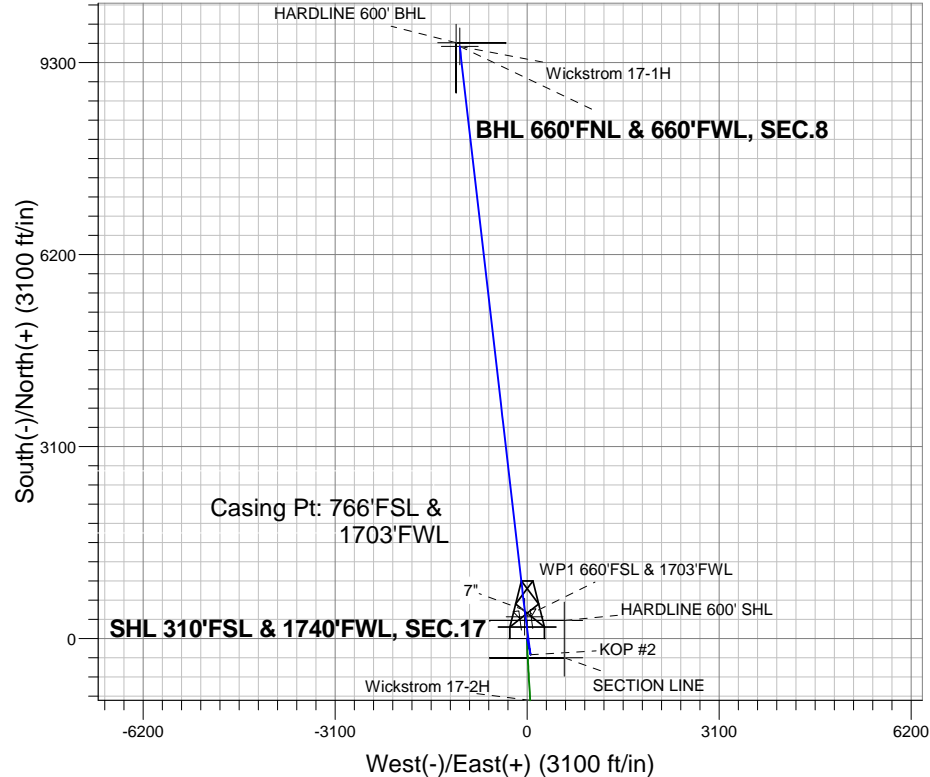
Azimuths to True North
Magnetic North: 8.29°

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

Wickstrom 17-1H Pad Sec.17-T6N-R60W
Wickstrom 17-1H
Plan #1 (2-25-13)
9:29, February 28 2013

ANNOTATIONS

TVD	MD	Annotation
1500.0	1500.0	KOP #1
5291.3	5304.9	KOP #2



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	1804.2	6.08	167.85	1803.6	-15.8	3.4	2.00	167.85	-16.1	
4	4009.4	6.08	167.85	3996.4	-244.2	52.6	0.00	0.00	-248.6	
5	4313.6	0.00	0.00	4300.0	-260.0	56.0	2.00	180.00	-264.7	
6	5304.9	0.00	0.00	5291.3	-260.0	56.0	0.00	0.00	-264.7	
7	6429.9	90.00	352.44	6007.5	450.0	-38.2	8.00	352.44	451.4	
8	6435.8	90.00	352.44	6007.5	455.8	-38.9	0.00	0.00	457.3	
9	6486.4	89.78	353.43	6007.6	506.1	-45.2	2.00	102.32	507.9	
10	15599.9	89.78	353.43	6042.0	9559.7	-1087.3	0.00	0.00	9621.4	BHL 660'FNL & 660'FWL, SEC.8

BHL 660'FNL & 660'FWL, SEC.8

Vertical Section at 353.51° (1100 ft/in)



Condor Energy

SEC.17-T6N-R60W

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

Wickstrom 17-1H

Wellbore #1

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

Standard Planning Report

28 February, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 17-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4683.8ft (Original Well Elev)
Project:	SEC.17-T6N-R60W	MD Reference:	WELL @ 4683.8ft (Original Well Elev)
Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-1H	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 17-1H					
Well Position	+N/-S	0.0 ft	Northing:	1,421,413.30 ft	Latitude:	40.482000
	+E/-W	0.0 ft	Easting:	3,383,432.79 ft	Longitude:	-104.121550
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,671.3 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	353.51

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	
1,804.2	6.08	167.85	1,803.6	-15.8	3.4	2.00	2.00	0.00	167.85	
4,009.4	6.08	167.85	3,996.4	-244.2	52.6	0.00	0.00	0.00	0.00	
4,313.6	0.00	0.00	4,300.0	-260.0	56.0	2.00	-2.00	0.00	180.00	
5,304.9	0.00	0.00	5,291.3	-260.0	56.0	0.00	0.00	0.00	0.00	
6,429.9	90.00	352.44	6,007.5	450.0	-38.2	8.00	8.00	0.00	352.44	
6,435.8	90.00	352.44	6,007.5	455.8	-38.9	0.00	0.00	0.00	0.00	
6,486.4	89.78	353.43	6,007.6	506.1	-45.2	2.00	-0.43	1.95	102.32	
15,599.9	89.78	353.43	6,042.0	9,559.7	-1,087.3	0.00	0.00	0.00	0.00	BHL 660'FNL & 660'

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Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-1H	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
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	167.85	1,600.0	-1.7	0.4	-1.7	2.00	2.00	0.00
1,700.0	4.00	167.85	1,699.8	-6.8	1.5	-6.9	2.00	2.00	0.00
1,800.0	6.00	167.85	1,799.5	-15.3	3.3	-15.6	2.00	2.00	0.00
1,804.2	6.08	167.85	1,803.6	-15.8	3.4	-16.1	2.00	2.00	0.00
1,900.0	6.08	167.85	1,898.9	-25.7	5.5	-26.2	0.00	0.00	0.00
2,000.0	6.08	167.85	1,998.3	-36.1	7.8	-36.7	0.00	0.00	0.00
2,100.0	6.08	167.85	2,097.8	-46.4	10.0	-47.3	0.00	0.00	0.00
2,200.0	6.08	167.85	2,197.2	-56.8	12.2	-57.8	0.00	0.00	0.00
2,300.0	6.08	167.85	2,296.6	-67.1	14.5	-68.3	0.00	0.00	0.00
2,400.0	6.08	167.85	2,396.1	-77.5	16.7	-78.9	0.00	0.00	0.00
2,500.0	6.08	167.85	2,495.5	-87.9	18.9	-89.4	0.00	0.00	0.00
2,600.0	6.08	167.85	2,594.9	-98.2	21.2	-100.0	0.00	0.00	0.00
2,700.0	6.08	167.85	2,694.4	-108.6	23.4	-110.5	0.00	0.00	0.00
2,800.0	6.08	167.85	2,793.8	-118.9	25.6	-121.1	0.00	0.00	0.00
2,900.0	6.08	167.85	2,893.3	-129.3	27.8	-131.6	0.00	0.00	0.00
3,000.0	6.08	167.85	2,992.7	-139.7	30.1	-142.2	0.00	0.00	0.00
3,100.0	6.08	167.85	3,092.1	-150.0	32.3	-152.7	0.00	0.00	0.00
3,200.0	6.08	167.85	3,191.6	-160.4	34.5	-163.3	0.00	0.00	0.00
3,300.0	6.08	167.85	3,291.0	-170.7	36.8	-173.8	0.00	0.00	0.00
3,400.0	6.08	167.85	3,390.4	-181.1	39.0	-184.3	0.00	0.00	0.00
3,500.0	6.08	167.85	3,489.9	-191.5	41.2	-194.9	0.00	0.00	0.00
3,600.0	6.08	167.85	3,589.3	-201.8	43.5	-205.4	0.00	0.00	0.00
3,700.0	6.08	167.85	3,688.8	-212.2	45.7	-216.0	0.00	0.00	0.00
3,800.0	6.08	167.85	3,788.2	-222.5	47.9	-226.5	0.00	0.00	0.00
3,900.0	6.08	167.85	3,887.6	-232.9	50.2	-237.1	0.00	0.00	0.00
4,000.0	6.08	167.85	3,987.1	-243.3	52.4	-247.6	0.00	0.00	0.00
4,009.4	6.08	167.85	3,996.4	-244.2	52.6	-248.6	0.00	0.00	0.00
4,100.0	4.27	167.85	4,086.6	-252.2	54.3	-256.7	2.00	-2.00	0.00
4,200.0	2.27	167.85	4,186.5	-257.8	55.5	-262.4	2.00	-2.00	0.00
4,300.0	0.27	167.85	4,286.4	-260.0	56.0	-264.6	2.00	-2.00	0.00
4,313.6	0.00	0.00	4,300.0	-260.0	56.0	-264.7	2.00	-2.00	0.00
4,400.0	0.00	0.00	4,386.4	-260.0	56.0	-264.7	0.00	0.00	0.00
4,500.0	0.00	0.00	4,486.4	-260.0	56.0	-264.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,586.4	-260.0	56.0	-264.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,686.4	-260.0	56.0	-264.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,786.4	-260.0	56.0	-264.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,886.4	-260.0	56.0	-264.7	0.00	0.00	0.00

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Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-1H	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	4,986.4	-260.0	56.0	-264.7	0.00	0.00	0.00
5,100.0	0.00	0.00	5,086.4	-260.0	56.0	-264.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,186.4	-260.0	56.0	-264.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,286.4	-260.0	56.0	-264.7	0.00	0.00	0.00
5,304.9	0.00	0.00	5,291.3	-260.0	56.0	-264.7	0.00	0.00	0.00
KOP #2									
5,400.0	7.61	352.44	5,386.2	-253.7	55.2	-258.4	8.00	8.00	0.00
5,500.0	15.61	352.44	5,484.0	-233.8	52.5	-238.3	8.00	8.00	0.00
5,600.0	23.61	352.44	5,578.2	-200.6	48.1	-204.7	8.00	8.00	0.00
5,700.0	31.61	352.44	5,666.7	-154.7	42.0	-158.4	8.00	8.00	0.00
5,800.0	39.61	352.44	5,747.9	-97.0	34.4	-100.3	8.00	8.00	0.00
5,900.0	47.61	352.44	5,820.3	-28.7	25.3	-31.4	8.00	8.00	0.00
6,000.0	55.61	352.44	5,882.3	49.0	15.0	46.9	8.00	8.00	0.00
6,100.0	63.61	352.44	5,932.9	134.4	3.7	133.1	8.00	8.00	0.00
6,200.0	71.61	352.44	5,970.9	226.0	-8.5	225.5	8.00	8.00	0.00
6,300.0	79.61	352.44	5,995.8	321.9	-21.2	322.3	8.00	8.00	0.00
6,400.0	87.61	352.44	6,006.9	420.4	-34.2	421.5	8.00	8.00	0.00
6,429.9	90.00	352.44	6,007.5	450.0	-38.2	451.4	8.00	8.00	0.00
6,435.8	90.00	352.44	6,007.5	455.8	-38.9	457.3	0.00	0.00	0.00
7"									
6,486.4	89.78	353.43	6,007.6	506.1	-45.2	507.9	2.00	-0.43	1.96
6,500.0	89.78	353.43	6,007.7	519.6	-46.7	521.5	0.00	0.00	0.00
6,600.0	89.78	353.43	6,008.1	618.9	-58.2	621.5	0.00	0.00	0.00
6,700.0	89.78	353.43	6,008.4	718.2	-69.6	721.5	0.00	0.00	0.00
6,800.0	89.78	353.43	6,008.8	817.6	-81.0	821.5	0.00	0.00	0.00
6,900.0	89.78	353.43	6,009.2	916.9	-92.5	921.5	0.00	0.00	0.00
7,000.0	89.78	353.43	6,009.6	1,016.3	-103.9	1,021.5	0.00	0.00	0.00
7,100.0	89.78	353.43	6,009.9	1,115.6	-115.3	1,121.5	0.00	0.00	0.00
7,200.0	89.78	353.43	6,010.3	1,215.0	-126.8	1,221.5	0.00	0.00	0.00
7,300.0	89.78	353.43	6,010.7	1,314.3	-138.2	1,321.5	0.00	0.00	0.00
7,400.0	89.78	353.43	6,011.1	1,413.7	-149.6	1,421.5	0.00	0.00	0.00
7,500.0	89.78	353.43	6,011.4	1,513.0	-161.1	1,521.5	0.00	0.00	0.00
7,600.0	89.78	353.43	6,011.8	1,612.3	-172.5	1,621.5	0.00	0.00	0.00
7,700.0	89.78	353.43	6,012.2	1,711.7	-183.9	1,721.5	0.00	0.00	0.00
7,800.0	89.78	353.43	6,012.6	1,811.0	-195.4	1,821.5	0.00	0.00	0.00
7,900.0	89.78	353.43	6,013.0	1,910.4	-206.8	1,921.5	0.00	0.00	0.00
8,000.0	89.78	353.43	6,013.3	2,009.7	-218.2	2,021.5	0.00	0.00	0.00
8,100.0	89.78	353.43	6,013.7	2,109.1	-229.7	2,121.5	0.00	0.00	0.00
8,200.0	89.78	353.43	6,014.1	2,208.4	-241.1	2,221.5	0.00	0.00	0.00
8,300.0	89.78	353.43	6,014.5	2,307.7	-252.5	2,321.5	0.00	0.00	0.00
8,400.0	89.78	353.43	6,014.8	2,407.1	-264.0	2,421.5	0.00	0.00	0.00
8,500.0	89.78	353.43	6,015.2	2,506.4	-275.4	2,521.5	0.00	0.00	0.00
8,600.0	89.78	353.43	6,015.6	2,605.8	-286.9	2,621.5	0.00	0.00	0.00
8,700.0	89.78	353.43	6,016.0	2,705.1	-298.3	2,721.5	0.00	0.00	0.00
8,800.0	89.78	353.43	6,016.4	2,804.5	-309.7	2,821.5	0.00	0.00	0.00
8,900.0	89.78	353.43	6,016.7	2,903.8	-321.2	2,921.5	0.00	0.00	0.00
9,000.0	89.78	353.43	6,017.1	3,003.1	-332.6	3,021.5	0.00	0.00	0.00
9,100.0	89.78	353.43	6,017.5	3,102.5	-344.0	3,121.5	0.00	0.00	0.00
9,200.0	89.78	353.43	6,017.9	3,201.8	-355.5	3,221.5	0.00	0.00	0.00
9,300.0	89.78	353.43	6,018.2	3,301.2	-366.9	3,321.5	0.00	0.00	0.00
9,400.0	89.78	353.43	6,018.6	3,400.5	-378.3	3,421.5	0.00	0.00	0.00
9,500.0	89.78	353.43	6,019.0	3,499.9	-389.8	3,521.5	0.00	0.00	0.00
9,600.0	89.78	353.43	6,019.4	3,599.2	-401.2	3,621.5	0.00	0.00	0.00
9,700.0	89.78	353.43	6,019.7	3,698.5	-412.6	3,721.5	0.00	0.00	0.00

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Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-1H	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	89.78	353.43	6,020.1	3,797.9	-424.1	3,821.5	0.00	0.00	0.00
9,900.0	89.78	353.43	6,020.5	3,897.2	-435.5	3,921.5	0.00	0.00	0.00
10,000.0	89.78	353.43	6,020.9	3,996.6	-446.9	4,021.5	0.00	0.00	0.00
10,100.0	89.78	353.43	6,021.3	4,095.9	-458.4	4,121.5	0.00	0.00	0.00
10,200.0	89.78	353.43	6,021.6	4,195.3	-469.8	4,221.5	0.00	0.00	0.00
10,300.0	89.78	353.43	6,022.0	4,294.6	-481.2	4,321.5	0.00	0.00	0.00
10,400.0	89.78	353.43	6,022.4	4,394.0	-492.7	4,421.5	0.00	0.00	0.00
10,500.0	89.78	353.43	6,022.8	4,493.3	-504.1	4,521.5	0.00	0.00	0.00
10,600.0	89.78	353.43	6,023.1	4,592.6	-515.5	4,621.5	0.00	0.00	0.00
10,700.0	89.78	353.43	6,023.5	4,692.0	-527.0	4,721.5	0.00	0.00	0.00
10,800.0	89.78	353.43	6,023.9	4,791.3	-538.4	4,821.5	0.00	0.00	0.00
10,900.0	89.78	353.43	6,024.3	4,890.7	-549.9	4,921.5	0.00	0.00	0.00
11,000.0	89.78	353.43	6,024.6	4,990.0	-561.3	5,021.5	0.00	0.00	0.00
11,100.0	89.78	353.43	6,025.0	5,089.4	-572.7	5,121.5	0.00	0.00	0.00
11,200.0	89.78	353.43	6,025.4	5,188.7	-584.2	5,221.5	0.00	0.00	0.00
11,300.0	89.78	353.43	6,025.8	5,288.0	-595.6	5,321.5	0.00	0.00	0.00
11,400.0	89.78	353.43	6,026.2	5,387.4	-607.0	5,421.5	0.00	0.00	0.00
11,500.0	89.78	353.43	6,026.5	5,486.7	-618.5	5,521.5	0.00	0.00	0.00
11,600.0	89.78	353.43	6,026.9	5,586.1	-629.9	5,621.5	0.00	0.00	0.00
11,700.0	89.78	353.43	6,027.3	5,685.4	-641.3	5,721.5	0.00	0.00	0.00
11,800.0	89.78	353.43	6,027.7	5,784.8	-652.8	5,821.5	0.00	0.00	0.00
11,900.0	89.78	353.43	6,028.0	5,884.1	-664.2	5,921.5	0.00	0.00	0.00
12,000.0	89.78	353.43	6,028.4	5,983.4	-675.6	6,021.5	0.00	0.00	0.00
12,100.0	89.78	353.43	6,028.8	6,082.8	-687.1	6,121.5	0.00	0.00	0.00
12,200.0	89.78	353.43	6,029.2	6,182.1	-698.5	6,221.5	0.00	0.00	0.00
12,300.0	89.78	353.43	6,029.6	6,281.5	-709.9	6,321.5	0.00	0.00	0.00
12,400.0	89.78	353.43	6,029.9	6,380.8	-721.4	6,421.5	0.00	0.00	0.00
12,500.0	89.78	353.43	6,030.3	6,480.2	-732.8	6,521.5	0.00	0.00	0.00
12,600.0	89.78	353.43	6,030.7	6,579.5	-744.2	6,621.5	0.00	0.00	0.00
12,700.0	89.78	353.43	6,031.1	6,678.9	-755.7	6,721.5	0.00	0.00	0.00
12,800.0	89.78	353.43	6,031.4	6,778.2	-767.1	6,821.5	0.00	0.00	0.00
12,900.0	89.78	353.43	6,031.8	6,877.5	-778.5	6,921.5	0.00	0.00	0.00
13,000.0	89.78	353.43	6,032.2	6,976.9	-790.0	7,021.5	0.00	0.00	0.00
13,100.0	89.78	353.43	6,032.6	7,076.2	-801.4	7,121.5	0.00	0.00	0.00
13,200.0	89.78	353.43	6,032.9	7,175.6	-812.9	7,221.5	0.00	0.00	0.00
13,300.0	89.78	353.43	6,033.3	7,274.9	-824.3	7,321.5	0.00	0.00	0.00
13,400.0	89.78	353.43	6,033.7	7,374.3	-835.7	7,421.5	0.00	0.00	0.00
13,500.0	89.78	353.43	6,034.1	7,473.6	-847.2	7,521.5	0.00	0.00	0.00
13,600.0	89.78	353.43	6,034.5	7,572.9	-858.6	7,621.5	0.00	0.00	0.00
13,700.0	89.78	353.43	6,034.8	7,672.3	-870.0	7,721.5	0.00	0.00	0.00
13,800.0	89.78	353.43	6,035.2	7,771.6	-881.5	7,821.5	0.00	0.00	0.00
13,900.0	89.78	353.43	6,035.6	7,871.0	-892.9	7,921.5	0.00	0.00	0.00
14,000.0	89.78	353.43	6,036.0	7,970.3	-904.3	8,021.5	0.00	0.00	0.00
14,100.0	89.78	353.43	6,036.3	8,069.7	-915.8	8,121.5	0.00	0.00	0.00
14,200.0	89.78	353.43	6,036.7	8,169.0	-927.2	8,221.5	0.00	0.00	0.00
14,300.0	89.78	353.43	6,037.1	8,268.3	-938.6	8,321.5	0.00	0.00	0.00
14,400.0	89.78	353.43	6,037.5	8,367.7	-950.1	8,421.4	0.00	0.00	0.00
14,500.0	89.78	353.43	6,037.9	8,467.0	-961.5	8,521.4	0.00	0.00	0.00
14,600.0	89.78	353.43	6,038.2	8,566.4	-972.9	8,621.4	0.00	0.00	0.00
14,700.0	89.78	353.43	6,038.6	8,665.7	-984.4	8,721.4	0.00	0.00	0.00
14,800.0	89.78	353.43	6,039.0	8,765.1	-995.8	8,821.4	0.00	0.00	0.00
14,900.0	89.78	353.43	6,039.4	8,864.4	-1,007.2	8,921.4	0.00	0.00	0.00
15,000.0	89.78	353.43	6,039.7	8,963.7	-1,018.7	9,021.4	0.00	0.00	0.00
15,100.0	89.78	353.43	6,040.1	9,063.1	-1,030.1	9,121.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 17-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4683.8ft (Original Well Elev)
Project:	SEC.17-T6N-R60W	MD Reference:	WELL @ 4683.8ft (Original Well Elev)
Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-1H	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)	
15,200.0	89.78	353.43	6,040.5	9,162.4	-1,041.5	9,221.4	0.00	0.00	0.00	
15,300.0	89.78	353.43	6,040.9	9,261.8	-1,053.0	9,321.4	0.00	0.00	0.00	
15,400.0	89.78	353.43	6,041.2	9,361.1	-1,064.4	9,421.4	0.00	0.00	0.00	
15,500.0	89.78	353.43	6,041.6	9,460.5	-1,075.8	9,521.4	0.00	0.00	0.00	
15,599.9	89.78	353.43	6,042.0	9,559.7	-1,087.3	9,621.4	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	1.0	-310.0	600.0	1,421,112.67	3,384,037.51	40.481149	-104.119393	
- hit/miss target										
- Shape										
- plan misses target center by 675.4ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)										
- Polygon										
Point 1			1.0	0.0	0.0	1,421,112.67	3,384,037.51			
Point 2			1.0	0.0	-1,200.0	1,421,094.02	3,382,837.70			
BHL 660'FNL & 660'F	0.00	0.00	6,042.0	9,559.7	-1,087.3	1,430,954.64	3,382,197.09	40.508240	-104.125460	
- plan hits target center										
- Point										
Landing Pt. 660'FSL &	0.00	0.00	6,007.5	349.8	-38.9	1,421,762.39	3,383,388.41	40.482960	-104.121690	
- plan misses target center by 15.5ft at 6331.1ft MD (6000.7 TVD, 352.3 N, -25.2 E)										
- Point										
SHL 310'FSL & 1740'I	0.00	0.00	1.0	0.0	0.0	1,421,413.30	3,383,432.79	40.482000	-104.121550	
- plan hits target center										
- Point										
HARDLINE 600' BHL	0.00	0.00	1.0	9,619.7	-1,147.3	1,431,013.65	3,382,136.14	40.508405	-104.125676	
- plan misses target center by 6041.6ft at 15599.9ft MD (6042.0 TVD, 9559.7 N, -1087.3 E)										
- Polygon										
Point 1			1.0	0.0	0.0	1,431,013.65	3,382,136.14			
Point 2			1.0	-800.0	0.0	1,430,213.77	3,382,148.58			
Point 3			1.0	0.0	0.0	1,431,013.65	3,382,136.14			
Point 4			1.0	0.0	800.0	1,431,026.08	3,382,936.02			
HARDLINE 600' SHL	0.00	0.00	1.0	290.0	600.0	1,421,712.58	3,384,028.19	40.482796	-104.119393	
- plan misses target center by 666.4ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)										
- Polygon										
Point 1			1.0	0.0	0.0	1,421,712.58	3,384,028.19			
Point 2			1.0	0.0	-1,200.0	1,421,693.92	3,382,828.38			

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,435.8	6,007.5	7"	7	7-1/2	

Database:	Landmark	Local Co-ordinate Reference:	Well Wickstrom 17-1H
Company:	Condor Energy	TVD Reference:	WELL @ 4683.8ft (Original Well Elev)
Project:	SEC.17-T6N-R60W	MD Reference:	WELL @ 4683.8ft (Original Well Elev)
Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	North Reference:	True
Well:	Wickstrom 17-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (2-25-13)		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,500.0	1,500.0	0.0	0.0	KOP #1	
5,304.9	5,291.3	-260.0	56.0	KOP #2	



Condor Energy

SEC.17-T6N-R60W

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

Wickstrom 17-1H

Wellbore #1

Plan #1 (2-25-13)

Anticollision Report

28 February, 2013

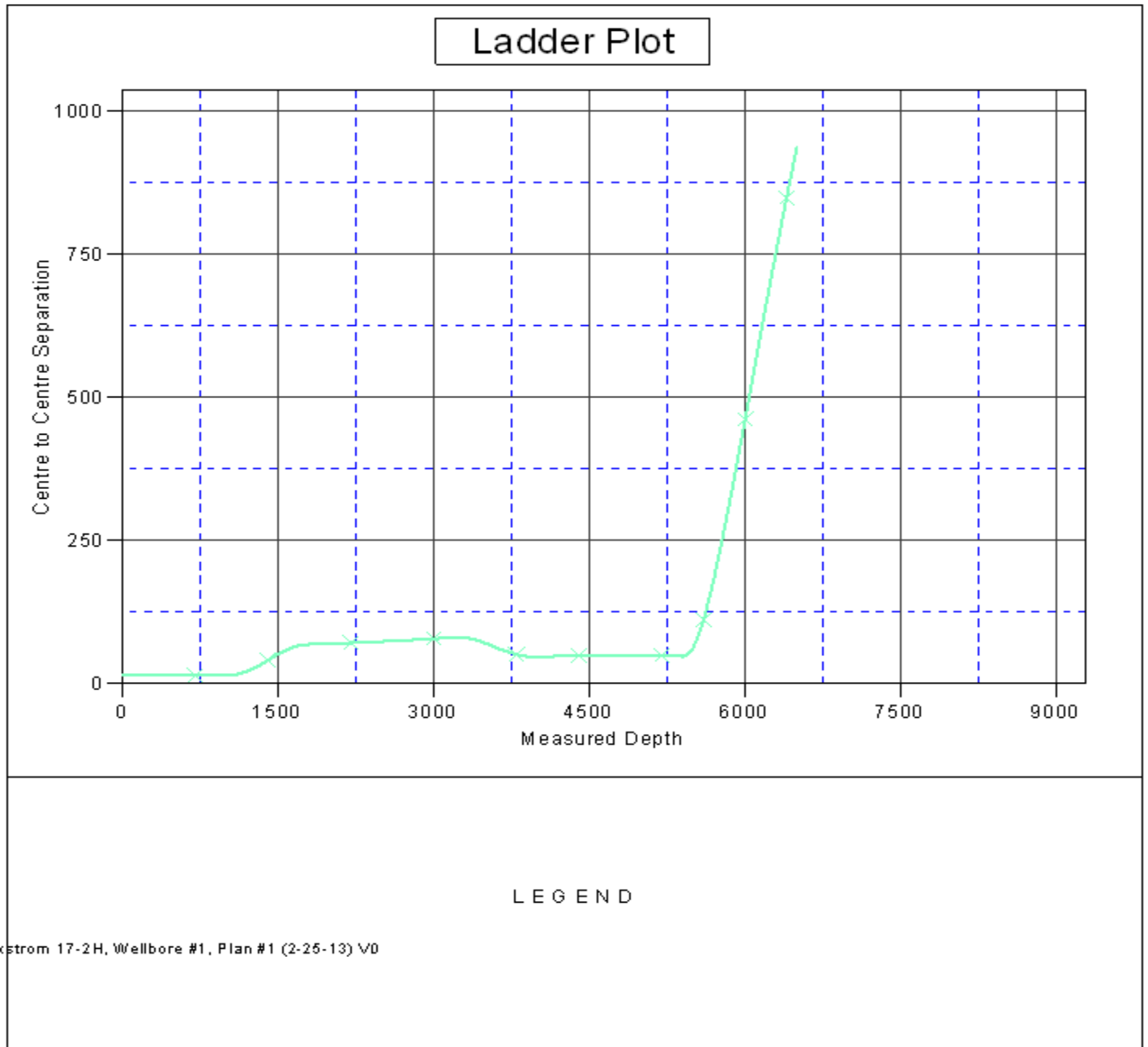
Wickstrom 17-1H Pad Sec.17-T6N-R60W - Wickstrom 17-2H - Wellbore #1 - Plan #1 (2-25-13)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (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		
2,300.0	2,296.6	2,295.4	2,289.0	4.9	5.3	20.68	-138.3	3.6	72.4	62.9	9.57	7.565		
2,400.0	2,396.1	2,395.4	2,388.4	5.2	5.5	22.11	-149.2	3.9	73.2	63.2	10.02	7.309		
2,500.0	2,495.5	2,495.4	2,487.8	5.4	5.8	23.50	-160.0	4.3	74.1	63.6	10.47	7.074		
2,600.0	2,594.9	2,595.4	2,587.2	5.7	6.1	24.85	-170.9	4.6	75.0	64.0	10.93	6.857		
2,700.0	2,694.4	2,695.4	2,686.5	5.9	6.4	26.18	-181.8	4.9	75.9	64.5	11.40	6.657		
2,800.0	2,793.8	2,795.3	2,785.9	6.2	6.7	27.47	-192.6	5.2	76.9	65.0	11.88	6.472		
2,900.0	2,893.3	2,895.3	2,885.3	6.5	7.0	28.73	-203.5	5.5	77.9	65.5	12.36	6.301		
3,000.0	2,992.7	2,995.3	2,984.7	6.7	7.3	29.96	-214.3	5.9	78.9	66.1	12.85	6.142		
3,100.0	3,092.1	3,095.3	3,084.1	7.0	7.6	31.15	-225.2	6.2	80.0	66.7	13.35	5.995		
3,200.0	3,191.6	3,195.3	3,183.5	7.3	7.9	32.31	-236.0	6.5	81.1	67.3	13.85	5.857		
3,300.0	3,291.0	3,297.8	3,285.6	7.6	8.2	33.93	-245.5	6.8	80.8	66.4	14.36	5.627		
3,400.0	3,390.4	3,400.2	3,387.8	7.9	8.4	36.71	-251.4	6.9	77.3	62.4	14.88	5.193		
3,500.0	3,489.9	3,502.2	3,489.8	8.1	8.6	41.17	-253.6	7.0	70.9	55.4	15.46	4.585		
3,600.0	3,589.3	3,601.8	3,589.4	8.4	8.7	47.49	-253.6	7.0	63.3	47.2	16.12	3.928		
3,700.0	3,688.8	3,701.3	3,688.9	8.7	8.9	55.38	-253.6	7.0	56.7	39.8	16.83	3.368		
3,800.0	3,788.2	3,800.7	3,788.3	9.0	9.1	65.11	-253.6	7.0	51.4	33.8	17.58	2.921		
3,900.0	3,887.6	3,900.1	3,887.7	9.3	9.2	76.63	-253.6	7.0	47.9	29.5	18.33	2.610		
4,004.9	3,992.0	4,004.5	3,992.1	9.6	9.4	89.99	-253.6	7.0	46.5	27.5	19.00	2.450		
4,009.4	3,996.4	4,008.9	3,996.5	9.6	9.4	90.57	-253.6	7.0	46.6	27.5	19.02	2.447		
4,100.0	4,086.6	4,099.1	4,086.7	9.9	9.6	100.49	-253.6	7.0	47.3	27.9	19.41	2.439		
4,200.0	4,186.5	4,199.0	4,186.6	10.1	9.8	107.12	-253.6	7.0	48.7	29.0	19.73	2.469		
4,300.0	4,286.4	4,298.9	4,286.5	10.2	10.0	109.59	-253.6	7.0	49.4	29.4	20.05	2.464		
4,313.6	4,300.0	4,312.5	4,300.1	10.3	10.0	-82.53	-253.6	7.0	49.4	29.5	19.95	2.478		
4,400.0	4,386.4	4,398.9	4,386.5	10.4	10.1	-82.53	-253.6	7.0	49.4	29.2	20.27	2.439		
4,500.0	4,486.4	4,498.9	4,486.5	10.6	10.3	-82.53	-253.6	7.0	49.4	28.8	20.63	2.395		
4,600.0	4,586.4	4,598.9	4,586.5	10.8	10.5	-82.53	-253.6	7.0	49.4	28.4	21.00	2.353		
4,700.0	4,686.4	4,698.9	4,686.5	11.0	10.7	-82.53	-253.6	7.0	49.4	28.0	21.37	2.312		
4,800.0	4,786.4	4,798.9	4,786.5	11.1	10.9	-82.53	-253.6	7.0	49.4	27.7	21.75	2.273		
4,900.0	4,886.4	4,898.9	4,886.5	11.3	11.1	-82.53	-253.6	7.0	49.4	27.3	22.12	2.234		
5,000.0	4,986.4	4,998.9	4,986.5	11.5	11.3	-82.53	-253.6	7.0	49.4	26.9	22.50	2.196		
5,100.0	5,086.4	5,098.9	5,086.5	11.7	11.5	-82.53	-253.6	7.0	49.4	26.5	22.88	2.160		
5,200.0	5,186.4	5,198.9	5,186.5	11.9	11.6	-82.53	-253.6	7.0	49.4	26.2	23.27	2.124		
5,304.9	5,291.3	5,303.9	5,291.4	12.1	11.9	-82.53	-253.6	7.0	49.4	25.7	23.68	2.087		
5,350.0	5,336.4	5,349.4	5,336.9	12.2	12.0	-78.39	-255.1	7.1	48.9	24.8	24.02	2.034		
5,393.2	5,379.4	5,391.9	5,379.3	12.2	12.1	-87.80	-259.1	7.3	48.2	23.9	24.26	1.986		
5,400.0	5,386.2	5,398.5	5,385.8	12.2	12.1	-89.79	-260.0	7.4	48.2	23.9	24.29	1.985 SF		
5,450.0	5,435.4	5,445.0	5,431.6	12.3	12.2	-106.86	-267.7	7.8	51.5	27.2	24.31	2.117		
5,500.0	5,484.0	5,487.8	5,473.3	12.3	12.4	-123.71	-277.3	8.3	63.0	39.1	23.92	2.633		
5,550.0	5,531.7	5,526.2	5,510.2	12.3	12.5	-136.11	-288.2	8.9	83.7	60.3	23.34	3.586		
5,600.0	5,578.2	5,560.0	5,542.0	12.3	12.7	-144.02	-299.3	9.6	112.0	89.2	22.76	4.919		
5,650.0	5,623.2	5,588.9	5,569.0	12.3	12.8	-148.73	-310.0	10.2	146.0	123.8	22.21	6.573		
5,700.0	5,666.7	5,613.3	5,591.2	12.4	12.9	-151.29	-319.8	10.7	184.3	162.6	21.67	8.504		
5,750.0	5,708.3	5,633.2	5,609.2	12.4	13.1	-152.25	-328.5	11.2	226.0	204.8	21.17	10.675		
5,800.0	5,747.9	5,650.0	5,624.1	12.4	13.1	-151.95	-336.1	11.6	270.2	249.5	20.73	13.040		
5,850.0	5,785.3	5,661.5	5,634.2	12.5	13.2	-149.71	-341.5	12.0	316.5	296.0	20.48	15.449		
5,900.0	5,820.3	5,670.5	5,642.1	12.6	13.3	-145.34	-345.9	12.2	364.1	343.5	20.61	17.663		
5,950.0	5,852.7	5,676.5	5,647.4	12.7	13.3	-136.89	-348.9	12.4	412.8	391.2	21.57	19.133		
6,000.0	5,882.3	5,680.0	5,650.3	12.9	13.3	-120.17	-350.6	12.5	462.1	438.0	24.03	19.232		
6,050.0	5,909.1	5,681.1	5,651.3	13.1	13.3	-89.39	-351.2	12.5	511.7	485.3	26.46	19.341		
6,100.0	5,932.9	5,680.2	5,650.6	13.4	13.3	-54.90	-350.7	12.5	561.4	538.0	23.43	23.956		
6,150.0	5,953.5	5,677.5	5,648.2	13.8	13.3	-33.87	-349.4	12.4	610.9	591.9	18.97	32.203		
6,200.0	5,970.9	5,673.2	5,644.5	14.2	13.3	-22.91	-347.2	12.3	660.0	643.8	16.22	40.694		

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 17-1H
Project:	SEC.17-T6N-R60W	TVD Reference:	WELL @ 4683.8ft (Original Well Elev)
Reference Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	MD Reference:	WELL @ 4683.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 17-1H	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 17-1H Pad Sec.17-T6N-R60W - Wickstrom 17-2H - 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	
6,250.0	5,985.1	5,667.5	5,639.5	14.6	13.2	-16.73	-344.4	12.1	708.6	693.9	14.64	48.403	
6,300.0	5,995.8	5,650.0	5,624.1	15.1	13.1	-12.31	-336.1	11.6	756.5	742.9	13.60	55.636	
6,350.0	6,003.1	5,650.0	5,624.1	15.6	13.1	-10.26	-336.1	11.6	803.2	790.0	13.19	60.881	
6,400.0	6,006.9	5,650.0	5,624.1	16.2	13.1	-8.74	-336.1	11.6	849.1	836.0	13.06	65.031	
6,429.9	6,007.5	5,650.0	5,624.1	16.6	13.1	-8.01	-336.1	11.6	876.0	863.0	13.09	66.929	
6,435.8	6,007.5	5,636.2	5,611.8	16.7	13.1	-7.70	-329.8	11.3	881.1	868.0	13.06	67.455	
6,486.4	6,007.6	5,626.3	5,603.0	17.2	13.0	-5.58	-325.4	11.0	926.5	913.4	13.06	70.956	
6,500.0	6,007.7	5,623.8	5,600.7	17.4	13.0	-5.54	-324.3	11.0	938.7	925.6	13.12	71.565	

Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 17-1H
Project:	SEC.17-T6N-R60W	TVD Reference:	WELL @ 4683.8ft (Original Well Elev)
Reference Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	MD Reference:	WELL @ 4683.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 17-1H	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 @ 4683.8ft (Original Well Elev) Coordinates are relative to: Wickstrom 17-1H
 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: 0.89°



Company:	Condor Energy	Local Co-ordinate Reference:	Well Wickstrom 17-1H
Project:	SEC.17-T6N-R60W	TVD Reference:	WELL @ 4683.8ft (Original Well Elev)
Reference Site:	Wickstrom 17-1H Pad Sec.17-T6N-R60W	MD Reference:	WELL @ 4683.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wickstrom 17-1H	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 @ 4683.8ft (Original Well Elev) Coordinates are relative to: Wickstrom 17-1H
 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: 0.89°

