

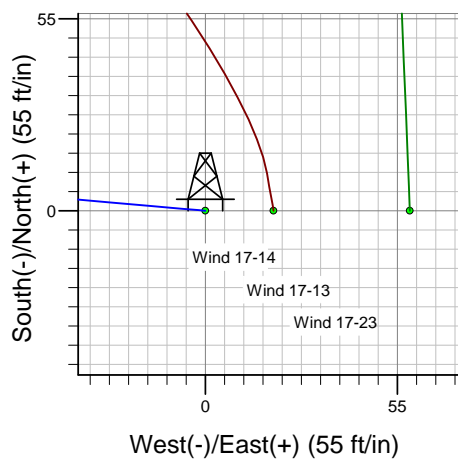
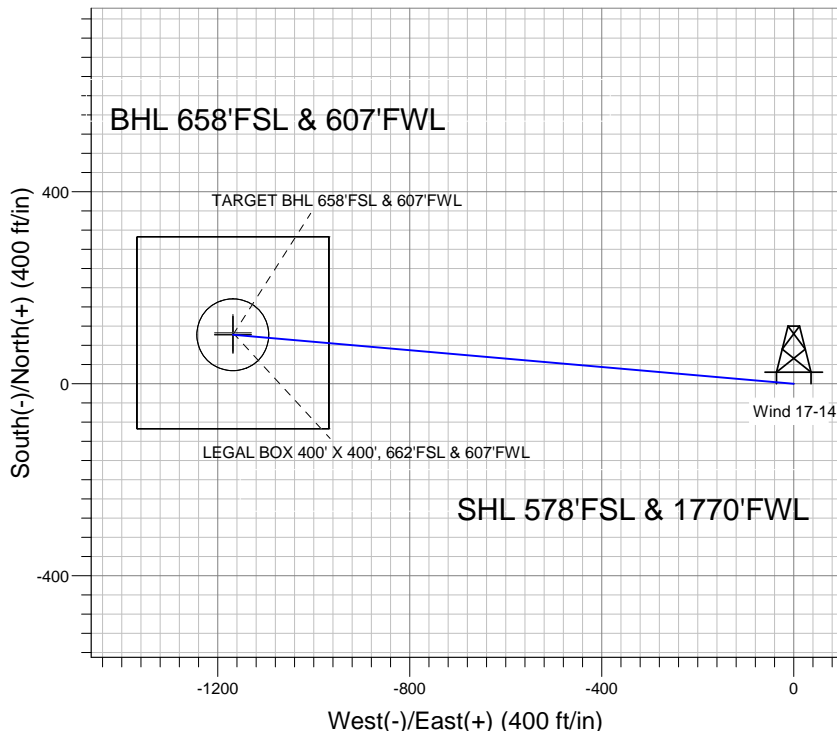
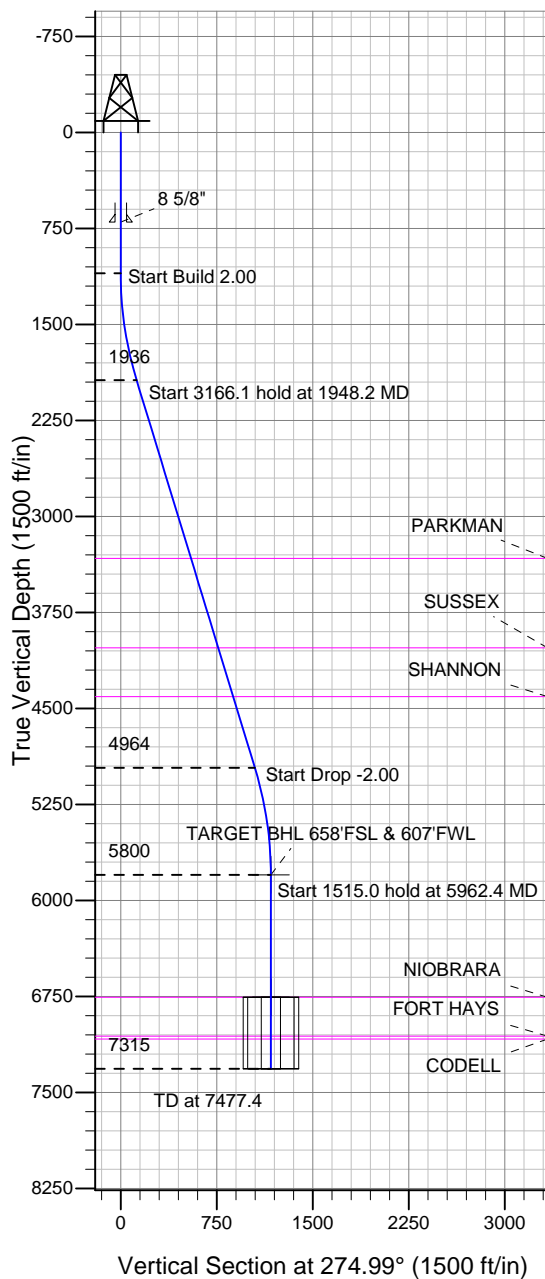
Well Name: Wind 17-14

Surface Location: Wind 17-14 Pad Sec.17-T4N-R67W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4839.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1355358.12	3162661.90	40.307390	-104.916750	
		RKB - 13'	WELL @ 4852.0ft (RKB - 13')			

Trilogy Resources, LLC. Weld County, CO



Wind 17-14 Pad Sec.17-T4N-R67W
Wind 17-14
Plan #1 (11-19-12)
14:08, November 20 2012



Azimuths to True North
Magnetic North: 8.74°
Magnetic Field
Strength: 52915.6snT
Dip Angle: 66.90°
Date: 11/19/2012
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 658'FSL & 607'FWL	5800.0	102.0	-1168.6	40.307670	-104.920940	Point
LEGAL BOX 400' X 400', 662'FSL & 607'FWL	6757.0	106.0	-1168.6	40.307681	-104.920940	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 658'FSL & 607'FWL	6757.0	102.0	-1168.6	40.307670	-104.920940	Circle (Radius: 75.0)

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	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	1948.2	16.96	274.99	1935.9	10.8	-124.2	2.00	274.99	124.6	
4	5114.2	16.96	274.99	4964.1	91.2	-1044.4	0.00	0.00	1048.4	
5	5962.4	0.00	0.00	5800.0	102.0	-1168.6	2.00	180.00	1173.0	TARGET BHL 658'FSL & 607'FWL
6	7477.4	0.00	0.00	7315.0	102.0	-1168.6	0.00	0.00	1173.0	



Trilogy Resources, LLC. Weld County, CO

SEC.17-T4N-R67W

Wind 17-14 Pad Sec.17-T4N-R67W

Wind 17-14

Wellbore #1

Plan: Plan #1 (11-19-12)

Standard Planning Report

20 November, 2012

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	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,948.2	16.96	274.99	1,935.9	10.8	-124.2	2.00	2.00	0.00	274.99	
5,114.2	16.96	274.99	4,964.1	91.2	-1,044.4	0.00	0.00	0.00	0.00	
5,962.4	0.00	0.00	5,800.0	102.0	-1,168.6	2.00	-2.00	0.00	180.00	TARGET BHL 658'±
7,477.4	0.00	0.00	7,315.0	102.0	-1,168.6	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Wind 17-14
Company:	Trilogy Resources, LLC. Weld County, CO	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Project:	SEC.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site:	Wind 17-14 Pad Sec.17-T4N-R67W	North Reference:	True
Well:	Wind 17-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-19-12)		

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
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	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
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	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
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	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
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	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
8 5/8"									
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	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
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	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
1,040.0	0.00	0.00	1,040.0	0.0	0.0	0.0	0.00	0.00	0.00
1,080.0	0.00	0.00	1,080.0	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
1,120.0	0.40	274.99	1,120.0	0.0	-0.1	0.1	2.00	2.00	0.00
1,160.0	1.20	274.99	1,160.0	0.1	-0.6	0.6	2.00	2.00	0.00
1,200.0	2.00	274.99	1,200.0	0.2	-1.7	1.7	2.00	2.00	0.00
1,240.0	2.80	274.99	1,239.9	0.3	-3.4	3.4	2.00	2.00	0.00
1,280.0	3.60	274.99	1,279.9	0.5	-5.6	5.7	2.00	2.00	0.00
1,320.0	4.40	274.99	1,319.8	0.7	-8.4	8.4	2.00	2.00	0.00
1,360.0	5.20	274.99	1,359.6	1.0	-11.7	11.8	2.00	2.00	0.00
1,400.0	6.00	274.99	1,399.5	1.4	-15.6	15.7	2.00	2.00	0.00
1,440.0	6.80	274.99	1,439.2	1.8	-20.1	20.2	2.00	2.00	0.00
1,480.0	7.60	274.99	1,478.9	2.2	-25.1	25.2	2.00	2.00	0.00
1,520.0	8.40	274.99	1,518.5	2.7	-30.6	30.7	2.00	2.00	0.00
1,560.0	9.20	274.99	1,558.0	3.2	-36.7	36.9	2.00	2.00	0.00
1,600.0	10.00	274.99	1,597.5	3.8	-43.4	43.5	2.00	2.00	0.00
1,640.0	10.80	274.99	1,636.8	4.4	-50.6	50.7	2.00	2.00	0.00
1,680.0	11.60	274.99	1,676.0	5.1	-58.3	58.5	2.00	2.00	0.00
1,720.0	12.40	274.99	1,715.2	5.8	-66.6	66.8	2.00	2.00	0.00
1,760.0	13.20	274.99	1,754.2	6.6	-75.4	75.7	2.00	2.00	0.00
1,800.0	14.00	274.99	1,793.1	7.4	-84.8	85.1	2.00	2.00	0.00
1,840.0	14.80	274.99	1,831.8	8.3	-94.7	95.0	2.00	2.00	0.00
1,880.0	15.60	274.99	1,870.4	9.2	-105.1	105.5	2.00	2.00	0.00
1,920.0	16.40	274.99	1,908.8	10.1	-116.1	116.6	2.00	2.00	0.00
1,948.2	16.96	274.99	1,935.9	10.8	-124.2	124.6	2.00	2.00	0.00
1,960.0	16.96	274.99	1,947.1	11.1	-127.6	128.1	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wind 17-14
Company:	Trilogy Resources, LLC. Weld County, CO	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Project:	SEC.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site:	Wind 17-14 Pad Sec.17-T4N-R67W	North Reference:	True
Well:	Wind 17-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-19-12)		

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)	
2,000.0	16.96	274.99	1,985.4	12.2	-139.2	139.8	0.00	0.00	0.00	
2,040.0	16.96	274.99	2,023.7	13.2	-150.9	151.4	0.00	0.00	0.00	
2,080.0	16.96	274.99	2,061.9	14.2	-162.5	163.1	0.00	0.00	0.00	
2,120.0	16.96	274.99	2,100.2	15.2	-174.1	174.8	0.00	0.00	0.00	
2,160.0	16.96	274.99	2,138.4	16.2	-185.7	186.4	0.00	0.00	0.00	
2,200.0	16.96	274.99	2,176.7	17.2	-197.4	198.1	0.00	0.00	0.00	
2,240.0	16.96	274.99	2,215.0	18.2	-209.0	209.8	0.00	0.00	0.00	
2,280.0	16.96	274.99	2,253.2	19.3	-220.6	221.5	0.00	0.00	0.00	
2,320.0	16.96	274.99	2,291.5	20.3	-232.2	233.1	0.00	0.00	0.00	
2,360.0	16.96	274.99	2,329.7	21.3	-243.9	244.8	0.00	0.00	0.00	
2,400.0	16.96	274.99	2,368.0	22.3	-255.5	256.5	0.00	0.00	0.00	
2,440.0	16.96	274.99	2,406.3	23.3	-267.1	268.1	0.00	0.00	0.00	
2,480.0	16.96	274.99	2,444.5	24.3	-278.8	279.8	0.00	0.00	0.00	
2,520.0	16.96	274.99	2,482.8	25.4	-290.4	291.5	0.00	0.00	0.00	
2,560.0	16.96	274.99	2,521.0	26.4	-302.0	303.2	0.00	0.00	0.00	
2,600.0	16.96	274.99	2,559.3	27.4	-313.6	314.8	0.00	0.00	0.00	
2,640.0	16.96	274.99	2,597.6	28.4	-325.3	326.5	0.00	0.00	0.00	
2,680.0	16.96	274.99	2,635.8	29.4	-336.9	338.2	0.00	0.00	0.00	
2,720.0	16.96	274.99	2,674.1	30.4	-348.5	349.8	0.00	0.00	0.00	
2,760.0	16.96	274.99	2,712.3	31.4	-360.1	361.5	0.00	0.00	0.00	
2,800.0	16.96	274.99	2,750.6	32.5	-371.8	373.2	0.00	0.00	0.00	
2,840.0	16.96	274.99	2,788.9	33.5	-383.4	384.8	0.00	0.00	0.00	
2,880.0	16.96	274.99	2,827.1	34.5	-395.0	396.5	0.00	0.00	0.00	
2,920.0	16.96	274.99	2,865.4	35.5	-406.6	408.2	0.00	0.00	0.00	
2,960.0	16.96	274.99	2,903.6	36.5	-418.3	419.9	0.00	0.00	0.00	
3,000.0	16.96	274.99	2,941.9	37.5	-429.9	431.5	0.00	0.00	0.00	
3,040.0	16.96	274.99	2,980.2	38.6	-441.5	443.2	0.00	0.00	0.00	
3,080.0	16.96	274.99	3,018.4	39.6	-453.1	454.9	0.00	0.00	0.00	
3,120.0	16.96	274.99	3,056.7	40.6	-464.8	466.5	0.00	0.00	0.00	
3,160.0	16.96	274.99	3,094.9	41.6	-476.4	478.2	0.00	0.00	0.00	
3,200.0	16.96	274.99	3,133.2	42.6	-488.0	489.9	0.00	0.00	0.00	
3,240.0	16.96	274.99	3,171.5	43.6	-499.7	501.6	0.00	0.00	0.00	
3,280.0	16.96	274.99	3,209.7	44.6	-511.3	513.2	0.00	0.00	0.00	
3,320.0	16.96	274.99	3,248.0	45.7	-522.9	524.9	0.00	0.00	0.00	
3,360.0	16.96	274.99	3,286.2	46.7	-534.5	536.6	0.00	0.00	0.00	
3,400.0	16.96	274.99	3,324.5	47.7	-546.2	548.2	0.00	0.00	0.00	
3,402.6	16.96	274.99	3,327.0	47.8	-546.9	549.0	0.00	0.00	0.00	
PARKMAN										
3,440.0	16.96	274.99	3,362.8	48.7	-557.8	559.9	0.00	0.00	0.00	
3,480.0	16.96	274.99	3,401.0	49.7	-569.4	571.6	0.00	0.00	0.00	
3,520.0	16.96	274.99	3,439.3	50.7	-581.0	583.3	0.00	0.00	0.00	
3,560.0	16.96	274.99	3,477.5	51.8	-592.7	594.9	0.00	0.00	0.00	
3,600.0	16.96	274.99	3,515.8	52.8	-604.3	606.6	0.00	0.00	0.00	
3,640.0	16.96	274.99	3,554.1	53.8	-615.9	618.3	0.00	0.00	0.00	
3,680.0	16.96	274.99	3,592.3	54.8	-627.5	629.9	0.00	0.00	0.00	
3,720.0	16.96	274.99	3,630.6	55.8	-639.2	641.6	0.00	0.00	0.00	
3,760.0	16.96	274.99	3,668.8	56.8	-650.8	653.3	0.00	0.00	0.00	
3,800.0	16.96	274.99	3,707.1	57.8	-662.4	664.9	0.00	0.00	0.00	
3,840.0	16.96	274.99	3,745.3	58.9	-674.1	676.6	0.00	0.00	0.00	
3,880.0	16.96	274.99	3,783.6	59.9	-685.7	688.3	0.00	0.00	0.00	
3,920.0	16.96	274.99	3,821.9	60.9	-697.3	700.0	0.00	0.00	0.00	
3,960.0	16.96	274.99	3,860.1	61.9	-708.9	711.6	0.00	0.00	0.00	
4,000.0	16.96	274.99	3,898.4	62.9	-720.6	723.3	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Wind 17-14
Company:	Trilogy Resources, LLC. Weld County, CO	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Project:	SEC.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site:	Wind 17-14 Pad Sec.17-T4N-R67W	North Reference:	True
Well:	Wind 17-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-19-12)		

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)
4,040.0	16.96	274.99	3,936.6	63.9	-732.2	735.0	0.00	0.00	0.00
4,080.0	16.96	274.99	3,974.9	65.0	-743.8	746.6	0.00	0.00	0.00
4,120.0	16.96	274.99	4,013.2	66.0	-755.4	758.3	0.00	0.00	0.00
4,134.5	16.96	274.99	4,027.0	66.3	-759.6	762.5	0.00	0.00	0.00
SUSSEX									
4,160.0	16.96	274.99	4,051.4	67.0	-767.1	770.0	0.00	0.00	0.00
4,200.0	16.96	274.99	4,089.7	68.0	-778.7	781.7	0.00	0.00	0.00
4,240.0	16.96	274.99	4,127.9	69.0	-790.3	793.3	0.00	0.00	0.00
4,280.0	16.96	274.99	4,166.2	70.0	-801.9	805.0	0.00	0.00	0.00
4,320.0	16.96	274.99	4,204.5	71.0	-813.6	816.7	0.00	0.00	0.00
4,360.0	16.96	274.99	4,242.7	72.1	-825.2	828.3	0.00	0.00	0.00
4,400.0	16.96	274.99	4,281.0	73.1	-836.8	840.0	0.00	0.00	0.00
4,440.0	16.96	274.99	4,319.2	74.1	-848.4	851.7	0.00	0.00	0.00
4,480.0	16.96	274.99	4,357.5	75.1	-860.1	863.3	0.00	0.00	0.00
4,520.0	16.96	274.99	4,395.8	76.1	-871.7	875.0	0.00	0.00	0.00
4,531.7	16.96	274.99	4,407.0	76.4	-875.1	878.4	0.00	0.00	0.00
SHANNON									
4,560.0	16.96	274.99	4,434.0	77.1	-883.3	886.7	0.00	0.00	0.00
4,600.0	16.96	274.99	4,472.3	78.2	-895.0	898.4	0.00	0.00	0.00
4,640.0	16.96	274.99	4,510.5	79.2	-906.6	910.0	0.00	0.00	0.00
4,680.0	16.96	274.99	4,548.8	80.2	-918.2	921.7	0.00	0.00	0.00
4,720.0	16.96	274.99	4,587.1	81.2	-929.8	933.4	0.00	0.00	0.00
4,760.0	16.96	274.99	4,625.3	82.2	-941.5	945.0	0.00	0.00	0.00
4,800.0	16.96	274.99	4,663.6	83.2	-953.1	956.7	0.00	0.00	0.00
4,840.0	16.96	274.99	4,701.8	84.2	-964.7	968.4	0.00	0.00	0.00
4,880.0	16.96	274.99	4,740.1	85.3	-976.3	980.1	0.00	0.00	0.00
4,920.0	16.96	274.99	4,778.4	86.3	-988.0	991.7	0.00	0.00	0.00
4,960.0	16.96	274.99	4,816.6	87.3	-999.6	1,003.4	0.00	0.00	0.00
5,000.0	16.96	274.99	4,854.9	88.3	-1,011.2	1,015.1	0.00	0.00	0.00
5,040.0	16.96	274.99	4,893.1	89.3	-1,022.8	1,026.7	0.00	0.00	0.00
5,080.0	16.96	274.99	4,931.4	90.3	-1,034.5	1,038.4	0.00	0.00	0.00
5,114.2	16.96	274.99	4,964.1	91.2	-1,044.4	1,048.4	0.00	0.00	0.00
5,120.0	16.85	274.99	4,969.7	91.3	-1,046.1	1,050.1	2.00	-2.00	0.00
5,160.0	16.05	274.99	5,008.0	92.3	-1,057.4	1,061.4	2.00	-2.00	0.00
5,200.0	15.25	274.99	5,046.5	93.3	-1,068.1	1,072.2	2.00	-2.00	0.00
5,240.0	14.45	274.99	5,085.2	94.2	-1,078.3	1,082.4	2.00	-2.00	0.00
5,280.0	13.65	274.99	5,124.0	95.0	-1,088.0	1,092.1	2.00	-2.00	0.00
5,320.0	12.85	274.99	5,162.9	95.8	-1,097.1	1,101.3	2.00	-2.00	0.00
5,360.0	12.05	274.99	5,202.0	96.6	-1,105.7	1,109.9	2.00	-2.00	0.00
5,400.0	11.25	274.99	5,241.2	97.3	-1,113.8	1,118.0	2.00	-2.00	0.00
5,440.0	10.45	274.99	5,280.5	97.9	-1,121.3	1,125.5	2.00	-2.00	0.00
5,480.0	9.65	274.99	5,319.8	98.5	-1,128.2	1,132.5	2.00	-2.00	0.00
5,520.0	8.85	274.99	5,359.3	99.1	-1,134.6	1,139.0	2.00	-2.00	0.00
5,560.0	8.05	274.99	5,398.9	99.6	-1,140.5	1,144.8	2.00	-2.00	0.00
5,600.0	7.25	274.99	5,438.5	100.1	-1,145.8	1,150.2	2.00	-2.00	0.00
5,640.0	6.45	274.99	5,478.2	100.5	-1,150.5	1,154.9	2.00	-2.00	0.00
5,680.0	5.65	274.99	5,518.0	100.8	-1,154.7	1,159.1	2.00	-2.00	0.00
5,720.0	4.85	274.99	5,557.9	101.2	-1,158.4	1,162.8	2.00	-2.00	0.00
5,760.0	4.05	274.99	5,597.7	101.4	-1,161.5	1,165.9	2.00	-2.00	0.00
5,800.0	3.25	274.99	5,637.7	101.6	-1,164.0	1,168.4	2.00	-2.00	0.00
5,840.0	2.45	274.99	5,677.6	101.8	-1,166.0	1,170.4	2.00	-2.00	0.00
5,880.0	1.65	274.99	5,717.6	101.9	-1,167.4	1,171.9	2.00	-2.00	0.00
5,920.0	0.85	274.99	5,757.6	102.0	-1,168.3	1,172.7	2.00	-2.00	0.00
5,960.0	0.05	274.99	5,797.6	102.0	-1,168.6	1,173.0	2.00	-2.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wind 17-14
Company:	Trilogy Resources, LLC. Weld County, CO	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Project:	SEC.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site:	Wind 17-14 Pad Sec.17-T4N-R67W	North Reference:	True
Well:	Wind 17-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-19-12)		

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)
5,962.4	0.00	0.00	5,800.0	102.0	-1,168.6	1,173.0	2.00	-2.00	0.00
TARGET BHL 658'FSL & 607'FWL									
6,000.0	0.00	0.00	5,837.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,040.0	0.00	0.00	5,877.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,080.0	0.00	0.00	5,917.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,120.0	0.00	0.00	5,957.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,160.0	0.00	0.00	5,997.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,037.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,240.0	0.00	0.00	6,077.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,280.0	0.00	0.00	6,117.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,320.0	0.00	0.00	6,157.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,360.0	0.00	0.00	6,197.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,237.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,440.0	0.00	0.00	6,277.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,480.0	0.00	0.00	6,317.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,520.0	0.00	0.00	6,357.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,560.0	0.00	0.00	6,397.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,437.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,640.0	0.00	0.00	6,477.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,680.0	0.00	0.00	6,517.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,720.0	0.00	0.00	6,557.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,760.0	0.00	0.00	6,597.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,637.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,840.0	0.00	0.00	6,677.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,880.0	0.00	0.00	6,717.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,919.4	0.00	0.00	6,757.0	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
NOBRARA - TARGET CIRCLE 658'FSL & 607'FWL - LEGAL BOX 400' X 400', 662'FSL & 607'FWL									
6,920.0	0.00	0.00	6,757.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
6,960.0	0.00	0.00	6,797.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,837.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,040.0	0.00	0.00	6,877.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,080.0	0.00	0.00	6,917.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,120.0	0.00	0.00	6,957.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,160.0	0.00	0.00	6,997.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,037.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,222.4	0.00	0.00	7,060.0	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
FORT HAYS									
7,240.0	0.00	0.00	7,077.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,244.4	0.00	0.00	7,082.0	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
CODELL									
7,280.0	0.00	0.00	7,117.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,320.0	0.00	0.00	7,157.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,360.0	0.00	0.00	7,197.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,237.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,440.0	0.00	0.00	7,277.6	102.0	-1,168.6	1,173.0	0.00	0.00	0.00
7,477.4	0.00	0.00	7,315.0	102.0	-1,168.6	1,173.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wind 17-14
Company:	Trilogy Resources, LLC. Weld County, CO	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Project:	SEC.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site:	Wind 17-14 Pad Sec.17-T4N-R67W	North Reference:	True
Well:	Wind 17-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-19-12)		

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
- Shape									Latitude Longitude
TARGET CIRCLE 658	- plan hits target center	0.00	0.00	6,757.0	102.0	-1,168.6	1,355,452.47	3,161,492.70	40.307670 -104.920940
- Circle (radius 75.0)									
LEGAL BOX 400' X 400'	- plan misses target center by 4.0ft at 6919.4ft MD (6757.0 TVD, 102.0 N, -1168.6 E)	0.00	0.00	6,757.0	106.0	-1,168.6	1,355,456.43	3,161,492.68	40.307681 -104.920940
- Rectangle (sides W400.0 H400.0 D558.0)									
TARGET BHL 658'FS	- plan hits target center	0.00	0.00	5,800.0	102.0	-1,168.6	1,355,452.47	3,161,492.70	40.307670 -104.920940
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
700.0	700.0	8 5/8"	8-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,402.6	3,327.0	PARKMAN		0.00		
4,134.5	4,027.0	SUSSEX		0.00		
4,531.7	4,407.0	SHANNON		0.00		
6,919.4	6,757.0	NIOBRARA		0.00		
7,222.4	7,060.0	FORT HAYS		0.00		
7,244.4	7,082.0	CODELL		0.00		



Trilogy Resources, LLC. Weld County, CO

SEC.17-T4N-R67W

Wind 17-14 Pad Sec.17-T4N-R67W

Wind 17-14

Wellbore #1

Plan #1 (11-19-12)

Anticollision Report

20 November, 2012

Company:	Trilogy Resources, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Wind 17-14
Project:	SEC.17-T4N-R67W	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Reference Site:	Wind 17-14 Pad Sec.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wind 17-14	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 (11-19-12)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (11-19-12)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 11/20/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,477.4	Plan #1 (11-19-12) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Wind 17-14 Pad Sec.17-T4N-R67W						
Wind 17-13 - Wellbore #1 - Plan #1 (11-19-12)	338.3	339.4	19.2	17.9	14.725	CC, ES
Wind 17-13 - Wellbore #1 - Plan #1 (11-19-12)	500.0	500.5	22.6	20.5	10.999	SF
Wind 17-23 - Wellbore #1 - Plan #1 (11-19-12)	1,013.6	1,015.6	58.5	54.2	13.493	CC
Wind 17-23 - Wellbore #1 - Plan #1 (11-19-12)	1,100.0	1,101.8	58.7	54.0	12.418	ES
Wind 17-23 - Wellbore #1 - Plan #1 (11-19-12)	1,200.0	1,201.1	61.7	56.5	11.947	SF

Offset Design Wind 17-14 Pad Sec.17-T4N-R67W - Wind 17-13 - Wellbore #1 - Plan #1 (11-19-12)												
Survey Program: 0-MWD												
Reference	Offset	Semi Major Axis		Distance		Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.00	0.0	19.5	19.5	19.5	0.00	N/A
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	19.5	19.5	19.3	0.23	86.000
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	19.5	19.5	18.8	0.68	28.856
300.0	300.0	301.1	301.1	0.6	0.6	84.78	1.8	19.2	19.3	18.2	1.13	17.088
338.3	338.3	339.4	339.3	0.6	0.7	80.00	3.3	18.9	19.2	17.9	1.31	14.725 CC, ES
400.0	400.0	400.9	400.7	0.8	0.8	69.25	6.9	18.3	19.6	18.0	1.59	12.316
500.0	500.0	500.5	500.0	1.0	1.0	47.10	15.4	16.5	22.6	20.5	2.05	10.999 SF
600.0	600.0	599.8	598.5	1.2	1.3	25.38	26.1	12.4	29.0	26.5	2.53	11.442
700.0	700.0	698.2	695.9	1.5	1.6	8.33	38.9	5.7	39.7	36.6	3.07	12.949
800.0	800.0	795.6	791.7	1.7	2.0	-3.64	53.8	-3.4	54.7	51.0	3.64	15.014
900.0	900.0	891.7	885.7	1.9	2.4	-11.93	70.4	-14.9	73.6	69.3	4.26	17.270
1,000.0	1,000.0	986.4	977.6	2.1	2.8	-17.81	88.8	-28.5	96.2	91.3	4.93	19.523
1,100.0	1,100.0	1,079.5	1,067.2	2.4	3.3	-22.12	108.8	-44.2	122.2	116.6	5.64	21.680
1,200.0	1,200.0	1,171.2	1,154.5	2.6	3.8	59.66	130.3	-61.9	150.7	145.3	5.36	28.096
1,300.0	1,299.8	1,261.9	1,240.0	2.8	4.4	57.85	153.3	-81.4	180.4	174.6	5.84	30.906
1,400.0	1,399.5	1,351.4	1,323.4	3.0	5.0	56.87	177.6	-102.8	211.2	204.8	6.33	33.342
1,500.0	1,498.7	1,444.3	1,409.3	3.2	5.7	56.49	204.2	-126.6	242.2	235.4	6.87	35.247
1,600.0	1,597.5	1,539.8	1,497.4	3.5	6.4	56.73	231.7	-151.2	271.6	264.2	7.45	36.438
1,700.0	1,695.6	1,635.8	1,585.9	3.8	7.2	57.43	259.3	-175.8	299.3	291.2	8.10	36.962
1,800.0	1,793.1	1,732.0	1,674.6	4.2	7.9	58.50	286.9	-200.6	325.3	316.5	8.82	36.903
1,900.0	1,889.6	1,828.4	1,763.6	4.6	8.7	59.87	314.7	-225.4	349.8	340.2	9.62	36.346
1,948.2	1,935.9	1,874.9	1,806.4	4.8	9.0	60.63	328.0	-237.4	361.1	351.1	10.05	35.927

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Trilogy Resources, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Wind 17-14
Project:	SEC.17-T4N-R67W	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Reference Site:	Wind 17-14 Pad Sec.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wind 17-14	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 (11-19-12)	Offset TVD Reference:	Offset Datum

Offset Design Wind 17-14 Pad Sec.17-T4N-R67W - Wind 17-13 - Wellbore #1 - Plan #1 (11-19-12)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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		
2,000.0	1,985.4	1,924.8	1,852.5	5.1	9.4	61.65	342.4	-250.2	373.2	362.7	10.54	35.405		
2,100.0	2,081.1	2,021.3	1,941.5	5.6	10.2	63.45	370.1	-275.0	396.8	385.3	11.53	34.426		
2,200.0	2,176.7	2,117.7	2,030.5	6.1	10.9	65.05	397.8	-299.9	420.8	408.2	12.56	33.509		
2,300.0	2,272.4	2,214.2	2,119.5	6.7	11.7	66.47	425.6	-324.7	445.0	431.3	13.62	32.666		
2,400.0	2,368.0	2,310.6	2,208.5	7.2	12.5	67.76	453.3	-349.5	469.4	454.7	14.72	31.900		
2,500.0	2,463.7	2,407.1	2,297.5	7.8	13.2	68.91	481.0	-374.3	494.1	478.2	15.83	31.208		
2,600.0	2,559.3	2,503.5	2,386.5	8.4	14.0	69.96	508.8	-399.1	518.9	501.9	16.97	30.584		
2,700.0	2,655.0	2,600.0	2,475.4	9.0	14.8	70.91	536.5	-424.0	543.9	525.8	18.12	30.021		
2,800.0	2,750.6	2,696.4	2,564.4	9.6	15.5	71.77	564.2	-448.8	569.0	549.7	19.28	29.514		
2,900.0	2,846.2	2,792.9	2,653.4	10.1	16.3	72.57	591.9	-473.6	594.2	573.7	20.45	29.056		
3,000.0	2,941.9	2,889.3	2,742.4	10.7	17.1	73.30	619.7	-498.4	619.5	597.9	21.63	28.640		
3,100.0	3,037.5	2,985.8	2,831.4	11.3	17.8	73.97	647.4	-523.2	644.9	622.1	22.82	28.263		
3,200.0	3,133.2	3,082.2	2,920.4	11.9	18.6	74.59	675.1	-548.0	670.4	646.4	24.01	27.920		
3,300.0	3,228.8	3,178.7	3,009.3	12.6	19.4	75.17	702.9	-572.9	695.9	670.7	25.21	27.606		
3,400.0	3,324.5	3,275.2	3,098.3	13.2	20.1	75.71	730.6	-597.7	721.5	695.1	26.41	27.319		
3,500.0	3,420.1	3,371.6	3,187.3	13.8	20.9	76.21	758.3	-622.5	747.2	719.6	27.62	27.055		
3,600.0	3,515.8	3,468.1	3,276.3	14.4	21.7	76.67	786.0	-647.3	772.9	744.1	28.83	26.812		
3,700.0	3,611.4	3,564.5	3,365.3	15.0	22.4	77.11	813.8	-672.1	798.7	768.6	30.04	26.588		
3,800.0	3,707.1	3,661.0	3,454.3	15.6	23.2	77.52	841.5	-697.0	824.5	793.2	31.25	26.380		
3,900.0	3,802.7	3,757.4	3,543.2	16.2	24.0	77.90	869.2	-721.8	850.3	817.8	32.47	26.188		
4,000.0	3,898.4	3,853.9	3,632.2	16.8	24.7	78.26	897.0	-746.6	876.2	842.5	33.69	26.009		
4,100.0	3,994.0	3,950.3	3,721.2	17.5	25.5	78.60	924.7	-771.4	902.1	867.2	34.91	25.842		
4,200.0	4,089.7	4,046.8	3,810.2	18.1	26.3	78.93	952.4	-796.2	928.0	891.9	36.13	25.686		
4,300.0	4,185.3	4,143.2	3,899.2	18.7	27.1	79.23	980.1	-821.0	954.0	916.6	37.35	25.540		
4,400.0	4,281.0	4,239.7	3,988.2	19.3	27.8	79.52	1,007.9	-845.9	979.9	941.4	38.57	25.404		
4,500.0	4,376.6	4,336.1	4,077.1	19.9	28.6	79.79	1,035.6	-870.7	1,005.9	966.1	39.80	25.275		
4,600.0	4,472.3	4,432.6	4,166.1	20.5	29.4	80.05	1,063.3	-895.5	1,032.0	990.9	41.02	25.155		
4,700.0	4,567.9	4,529.0	4,255.1	21.2	30.1	80.30	1,091.1	-920.3	1,058.0	1,015.7	42.25	25.041		
4,800.0	4,663.6	4,625.5	4,344.1	21.8	30.9	80.54	1,118.8	-945.1	1,084.0	1,040.6	43.48	24.934		
4,900.0	4,759.2	4,721.9	4,433.1	22.4	31.7	80.76	1,146.5	-970.0	1,110.1	1,065.4	44.70	24.832		
5,000.0	4,854.9	4,818.4	4,522.1	23.0	32.5	80.97	1,174.2	-994.8	1,136.2	1,090.3	45.93	24.736		
5,100.0	4,950.5	4,914.8	4,611.1	23.6	33.2	81.18	1,202.0	-1,019.6	1,162.3	1,115.2	47.16	24.646		
5,114.2	4,964.1	4,928.6	4,623.7	23.7	33.3	81.21	1,205.9	-1,023.1	1,166.0	1,118.7	47.34	24.633		
5,200.0	5,046.5	5,011.3	4,700.0	24.2	34.0	81.77	1,229.7	-1,044.4	1,188.6	1,140.2	48.42	24.550		
5,300.0	5,143.5	5,107.6	4,788.9	24.6	34.8	82.28	1,257.4	-1,069.2	1,215.4	1,165.9	49.52	24.544		
5,400.0	5,241.2	5,247.9	4,919.5	25.0	35.7	82.61	1,295.5	-1,103.3	1,241.0	1,190.4	50.63	24.511		
5,500.0	5,339.6	5,393.8	5,057.8	25.3	36.5	82.85	1,330.2	-1,134.3	1,263.4	1,211.8	51.58	24.494		
5,600.0	5,438.5	5,542.2	5,200.7	25.6	37.1	83.01	1,359.9	-1,160.9	1,282.4	1,230.0	52.39	24.479		
5,700.0	5,537.9	5,692.7	5,347.6	25.8	37.7	83.09	1,384.4	-1,182.9	1,297.9	1,244.8	53.06	24.460		
5,800.0	5,637.7	5,845.0	5,497.7	26.0	38.1	83.10	1,403.3	-1,199.8	1,309.8	1,256.2	53.58	24.443		
5,900.0	5,737.6	5,998.7	5,650.4	26.1	38.5	83.03	1,416.4	-1,211.5	1,318.1	1,264.1	53.97	24.423		
5,962.4	5,800.0	6,095.1	5,746.6	26.2	38.6	-2.06	1,421.4	-1,216.0	1,321.3	1,267.2	54.13	24.411		
6,000.0	5,837.6	6,153.3	5,804.7	26.2	38.7	-2.13	1,423.3	-1,217.7	1,322.6	1,268.4	54.20	24.400		
6,100.0	5,937.6	6,287.2	5,938.6	26.3	38.8	-2.17	1,424.5	-1,218.7	1,323.4	1,269.0	54.42	24.317		
6,200.0	6,037.6	6,387.2	6,038.6	26.4	38.9	-2.17	1,424.5	-1,218.7	1,323.4	1,268.8	54.63	24.226		
6,300.0	6,137.6	6,487.2	6,138.6	26.5	39.0	-2.17	1,424.5	-1,218.7	1,323.4	1,268.5	54.84	24.133		
6,400.0	6,237.6	6,587.2	6,238.6	26.6	39.0	-2.17	1,424.5	-1,218.7	1,323.4	1,268.3	55.05	24.039		
6,500.0	6,337.6	6,687.2	6,338.6	26.7	39.1	-2.17	1,424.5	-1,218.7	1,323.4	1,268.1	55.27	23.945		
6,600.0	6,437.6	6,787.2	6,438.6	26.8	39.2	-2.17	1,424.5	-1,218.7	1,323.4	1,267.9	55.49	23.851		
6,700.0	6,537.6	6,887.2	6,538.6	27.0	39.3	-2.17	1,424.5	-1,218.7	1,323.4	1,267.7	55.71	23.756		
6,800.0	6,637.6	6,987.2	6,638.6	27.1	39.3	-2.17	1,424.5	-1,218.7	1,323.4	1,267.5	55.93	23.661		
6,900.0	6,737.6	7,087.2	6,738.6	27.2	39.4	-2.17	1,424.5	-1,218.7	1,323.4	1,267.2	56.16	23.565		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Trilogy Resources, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Wind 17-14
Project:	SEC.17-T4N-R67W	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Reference Site:	Wind 17-14 Pad Sec.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wind 17-14	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 (11-19-12)	Offset TVD Reference:	Offset Datum

Offset Design Wind 17-14 Pad Sec.17-T4N-R67W - Wind 17-13 - Wellbore #1 - Plan #1 (11-19-12)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance									
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	Warning
7,000.0	6,837.6	7,187.2	6,838.6	27.3	39.5	-2.17	1,424.5	-1,218.7	1,323.4	1,267.0	56.39	23.469	
7,100.0	6,937.6	7,287.2	6,938.6	27.4	39.6	-2.17	1,424.5	-1,218.7	1,323.4	1,266.8	56.62	23.373	
7,200.0	7,037.6	7,387.2	7,038.6	27.6	39.7	-2.17	1,424.5	-1,218.7	1,323.4	1,266.5	56.85	23.277	
7,300.0	7,137.6	7,487.2	7,138.6	27.7	39.8	-2.17	1,424.5	-1,218.7	1,323.4	1,266.3	57.09	23.180	
7,400.0	7,237.6	7,587.2	7,238.6	27.8	39.8	-2.17	1,424.5	-1,218.7	1,323.4	1,266.1	57.33	23.083	
7,451.6	7,289.2	7,638.8	7,290.2	27.9	39.9	-2.17	1,424.5	-1,218.7	1,323.4	1,265.9	57.46	23.033	
7,477.4	7,315.0	7,664.6	7,316.0	27.9	39.9	-2.17	1,424.5	-1,218.7	1,323.4	1,265.9	57.52	23.008	

Company:	Trilogy Resources, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Wind 17-14
Project:	SEC.17-T4N-R67W	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Reference Site:	Wind 17-14 Pad Sec.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wind 17-14	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 (11-19-12)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis		Distance									
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	Warning
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	58.6	58.6	58.6	0.00	N/A	
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	58.6	58.6	58.3	0.23	255.471	
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	58.6	58.6	57.9	0.68	86.285	
300.0	300.0	302.0	302.0	0.6	0.6	90.00	0.0	58.6	58.6	57.4	1.13	51.909	
400.0	400.0	402.0	402.0	0.8	0.8	90.00	0.0	58.6	58.6	57.0	1.58	37.120	
500.0	500.0	502.0	502.0	1.0	1.0	90.00	0.0	58.6	58.6	56.5	2.03	28.889	
600.0	600.0	602.0	602.0	1.2	1.2	90.00	0.0	58.6	58.6	56.1	2.48	23.646	
700.0	700.0	702.0	702.0	1.5	1.5	90.00	0.0	58.6	58.6	55.6	2.93	20.014	
800.0	800.0	802.0	802.0	1.7	1.7	90.00	0.0	58.6	58.6	55.2	3.38	17.349	
900.0	900.0	902.0	902.0	1.9	1.9	90.00	0.0	58.6	58.6	54.7	3.83	15.310	
1,000.0	1,000.0	1,002.0	1,002.0	2.1	2.1	88.22	1.8	58.5	58.5	54.2	4.28	13.688	
1,013.6	1,013.6	1,015.6	1,015.6	2.2	2.2	87.71	2.3	58.5	58.5	54.2	4.34	13.493 CC	
1,100.0	1,100.0	1,101.8	1,101.7	2.4	2.4	83.05	7.1	58.3	58.7	54.0	4.73	12.418 ES	
1,200.0	1,200.0	1,201.1	1,200.6	2.6	2.6	160.29	15.8	57.9	61.7	56.5	5.17	11.947 SF	
1,300.0	1,299.8	1,300.0	1,298.7	2.8	2.8	151.93	27.9	57.5	70.0	64.4	5.61	12.476	
1,400.0	1,399.5	1,397.2	1,394.7	3.0	3.1	144.71	43.0	56.9	83.9	77.8	6.08	13.802	
1,500.0	1,498.7	1,493.3	1,489.1	3.2	3.4	139.14	61.2	56.1	103.1	96.5	6.57	15.696	
1,600.0	1,597.5	1,587.9	1,581.3	3.5	3.7	135.09	82.1	55.3	127.3	120.2	7.09	17.952	
1,700.0	1,695.6	1,680.6	1,671.0	3.8	4.1	132.19	105.6	54.3	156.1	148.4	7.65	20.403	
1,800.0	1,793.1	1,771.3	1,757.9	4.2	4.5	130.08	131.4	53.3	189.3	181.0	8.26	22.920	
1,900.0	1,889.6	1,859.8	1,841.9	4.6	5.0	128.49	159.1	52.2	226.5	217.6	8.92	25.405	
1,948.2	1,935.9	1,902.6	1,882.3	4.8	5.2	127.85	173.5	51.6	245.9	236.6	9.26	26.555	
2,000.0	1,985.4	1,949.9	1,926.8	5.1	5.4	127.63	189.4	51.0	267.0	257.3	9.66	27.646	
2,100.0	2,081.1	2,041.2	2,012.8	5.6	6.0	127.28	220.1	49.8	307.7	297.2	10.44	29.458	
2,200.0	2,176.7	2,132.5	2,098.8	6.1	6.5	127.02	250.8	48.5	348.4	337.2	11.26	30.932	
2,300.0	2,272.4	2,223.9	2,184.8	6.7	7.1	126.81	281.5	47.3	389.2	377.1	12.11	32.144	
2,400.0	2,368.0	2,315.2	2,270.8	7.2	7.6	126.64	312.2	46.1	429.9	417.0	12.97	33.149	
2,500.0	2,463.7	2,406.5	2,356.8	7.8	8.2	126.50	342.9	44.9	470.7	456.8	13.85	33.990	
2,600.0	2,559.3	2,497.8	2,442.7	8.4	8.7	126.38	373.6	43.6	511.4	496.7	14.74	34.701	
2,700.0	2,655.0	2,589.1	2,528.7	9.0	9.3	126.28	404.3	42.4	552.2	536.6	15.64	35.307	
2,800.0	2,750.6	2,680.4	2,614.7	9.6	9.9	126.19	435.0	41.2	593.0	576.4	16.55	35.828	
2,900.0	2,846.2	2,771.7	2,700.7	10.1	10.5	126.12	465.8	40.0	633.7	616.3	17.47	36.280	
3,000.0	2,941.9	2,863.0	2,786.7	10.7	11.1	126.05	496.5	38.7	674.5	656.1	18.39	36.674	
3,100.0	3,037.5	2,954.4	2,872.7	11.3	11.7	125.99	527.2	37.5	715.3	695.9	19.32	37.020	
3,200.0	3,133.2	3,045.7	2,958.7	11.9	12.3	125.94	557.9	36.3	756.0	735.8	20.25	37.326	
3,300.0	3,228.8	3,137.0	3,044.6	12.6	12.8	125.89	588.6	35.0	796.8	775.6	21.19	37.597	
3,400.0	3,324.5	3,228.3	3,130.6	13.2	13.4	125.85	619.3	33.8	837.5	815.4	22.13	37.840	
3,500.0	3,420.1	3,319.6	3,216.6	13.8	14.0	125.81	650.0	32.6	878.3	855.2	23.08	38.057	
3,600.0	3,515.8	3,410.9	3,302.6	14.4	14.6	125.78	680.7	31.4	919.1	895.0	24.03	38.253	
3,700.0	3,611.4	3,502.2	3,388.6	15.0	15.2	125.75	711.4	30.1	959.8	934.9	24.98	38.431	
3,800.0	3,707.1	3,593.5	3,474.6	15.6	15.8	125.72	742.1	28.9	1,000.6	974.7	25.93	38.592	
3,900.0	3,802.7	3,684.9	3,560.5	16.2	16.4	125.69	772.9	27.7	1,041.4	1,014.5	26.88	38.739	
4,000.0	3,898.4	3,776.2	3,646.5	16.8	17.0	125.66	803.6	26.4	1,082.1	1,054.3	27.84	38.873	
4,100.0	3,994.0	3,867.5	3,732.5	17.5	17.6	125.64	834.3	25.2	1,122.9	1,094.1	28.80	38.996	
4,200.0	4,089.7	3,958.8	3,818.5	18.1	18.2	125.62	865.0	24.0	1,163.7	1,133.9	29.75	39.110	
4,300.0	4,185.3	4,050.1	3,904.5	18.7	18.8	125.60	895.7	22.8	1,204.4	1,173.7	30.71	39.214	
4,400.0	4,281.0	4,141.4	3,990.5	19.3	19.4	125.58	926.4	21.5	1,245.2	1,213.5	31.68	39.311	
4,500.0	4,376.6	4,232.7	4,076.5	19.9	20.0	125.56	957.1	20.3	1,286.0	1,253.3	32.64	39.401	
4,600.0	4,472.3	4,324.0	4,162.4	20.5	20.6	125.54	987.8	19.1	1,326.7	1,293.1	33.60	39.484	
4,700.0	4,567.9	4,415.4	4,248.4	21.2	21.2	125.53	1,018.5	17.9	1,367.5	1,332.9	34.57	39.562	
4,800.0	4,663.6	4,506.7	4,334.4	21.8	21.8	125.51	1,049.2	16.6	1,408.3	1,372.7	35.53	39.634	
4,900.0	4,759.2	4,598.0	4,420.4	22.4	22.4	125.50	1,079.9	15.4	1,449.0	1,412.5	36.50	39.702	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Trilogy Resources, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Wind 17-14
Project:	SEC.17-T4N-R67W	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Reference Site:	Wind 17-14 Pad Sec.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wind 17-14	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 (11-19-12)	Offset TVD Reference:	Offset Datum

Offset Design		Wind 17-14 Pad Sec.17-T4N-R67W - Wind 17-23 - Wellbore #1 - Plan #1 (11-19-12)											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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,854.9	4,689.3	4,506.4	23.0	23.0	125.49	1,110.7	14.2	1,489.8	1,452.3	37.46	39.766		
5,100.0	4,950.5	4,780.6	4,592.4	23.6	23.6	125.47	1,141.4	12.9	1,530.6	1,492.1	38.43	39.825		
5,114.2	4,964.1	4,793.6	4,604.6	23.7	23.7	125.47	1,145.7	12.8	1,536.4	1,497.8	38.57	39.833		
5,200.0	5,046.5	4,872.2	4,678.6	24.2	24.2	126.03	1,172.2	11.7	1,570.6	1,531.2	39.48	39.787		
5,300.0	5,143.5	4,964.5	4,765.6	24.6	24.9	126.54	1,203.2	10.5	1,608.9	1,568.4	40.44	39.781		
5,400.0	5,241.2	5,069.9	4,864.9	25.0	25.5	126.87	1,238.5	9.1	1,645.1	1,603.7	41.41	39.729		
5,500.0	5,339.6	5,230.0	5,017.6	25.3	26.3	126.98	1,286.5	7.1	1,676.9	1,634.5	42.41	39.541		
5,600.0	5,438.5	5,395.6	5,178.1	25.6	27.0	127.06	1,327.0	5.5	1,702.9	1,659.6	43.29	39.333		
5,700.0	5,537.9	5,565.9	5,345.3	25.8	27.5	127.12	1,359.0	4.2	1,722.8	1,678.8	44.05	39.109		
5,800.0	5,637.7	5,739.7	5,517.6	26.0	28.0	127.15	1,381.4	3.3	1,736.5	1,691.8	44.67	38.871		
5,900.0	5,737.6	5,915.7	5,693.2	26.1	28.3	127.17	1,393.3	2.9	1,743.7	1,698.5	45.15	38.623		
5,962.4	5,800.0	6,024.5	5,802.0	26.2	28.4	42.17	1,395.3	2.8	1,744.9	1,699.5	45.36	38.466		
6,000.0	5,837.6	6,062.1	5,839.6	26.2	28.4	42.17	1,395.3	2.8	1,744.9	1,699.5	45.44	38.396		
6,100.0	5,937.6	6,162.1	5,939.6	26.3	28.5	42.17	1,395.3	2.8	1,744.9	1,699.2	45.68	38.198		
6,200.0	6,037.6	6,262.1	6,039.6	26.4	28.6	42.17	1,395.3	2.8	1,744.9	1,699.0	45.92	37.998		
6,300.0	6,137.6	6,362.1	6,139.6	26.5	28.7	42.17	1,395.3	2.8	1,744.9	1,698.7	46.17	37.796		
6,400.0	6,237.6	6,462.1	6,239.6	26.6	28.8	42.17	1,395.3	2.8	1,744.9	1,698.5	46.41	37.595		
6,500.0	6,337.6	6,562.1	6,339.6	26.7	28.9	42.17	1,395.3	2.8	1,744.9	1,698.2	46.66	37.393		
6,600.0	6,437.6	6,662.1	6,439.6	26.8	29.0	42.17	1,395.3	2.8	1,744.9	1,698.0	46.92	37.191		
6,700.0	6,537.6	6,762.1	6,539.6	27.0	29.1	42.17	1,395.3	2.8	1,744.9	1,697.7	47.17	36.989		
6,800.0	6,637.6	6,862.1	6,639.6	27.1	29.2	42.17	1,395.3	2.8	1,744.9	1,697.5	47.43	36.787		
6,900.0	6,737.6	6,962.1	6,739.6	27.2	29.3	42.17	1,395.3	2.8	1,744.9	1,697.2	47.70	36.584		
7,000.0	6,837.6	7,062.1	6,839.6	27.3	29.4	42.17	1,395.3	2.8	1,744.9	1,696.9	47.96	36.382		
7,100.0	6,937.6	7,162.1	6,939.6	27.4	29.5	42.17	1,395.3	2.8	1,744.9	1,696.7	48.23	36.180		
7,200.0	7,037.6	7,262.1	7,039.6	27.6	29.7	42.17	1,395.3	2.8	1,744.9	1,696.4	48.50	35.979		
7,300.0	7,137.6	7,362.1	7,139.6	27.7	29.8	42.17	1,395.3	2.8	1,744.9	1,696.1	48.77	35.777		
7,400.0	7,237.6	7,462.1	7,239.6	27.8	29.9	42.17	1,395.3	2.8	1,744.9	1,695.9	49.05	35.576		
7,450.9	7,288.5	7,513.0	7,290.5	27.9	29.9	42.17	1,395.3	2.8	1,744.9	1,695.7	49.19	35.474		
7,477.4	7,315.0	7,537.5	7,315.0	27.9	30.0	42.17	1,395.3	2.8	1,744.9	1,695.6	49.26	35.423		

Company:	Trilogy Resources, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Wind 17-14
Project:	SEC.17-T4N-R67W	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Reference Site:	Wind 17-14 Pad Sec.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wind 17-14	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 (11-19-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4852.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Wind 17-14
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.38°



Company:	Trilogy Resources, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Wind 17-14
Project:	SEC.17-T4N-R67W	TVD Reference:	WELL @ 4852.0ft (RKB - 13')
Reference Site:	Wind 17-14 Pad Sec.17-T4N-R67W	MD Reference:	WELL @ 4852.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Wind 17-14	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 (11-19-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4852.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Wind 17-14
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.38°

