

Cirque Resources LP

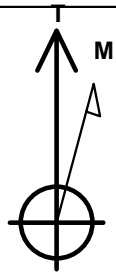
Well Name: **Pismo West 26-23-14-3CH**

Surface Location: Pismo West Pad. Sec.26-T12N-R66W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 6216.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1598534.17	3208442.88	40.973900	-104.745180	
RKB - 25' WELL @ 6241.0ft (RKB - 25')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Sectionline	1.0	-894.0	141.4	Polygon
SHL 894'FSL & 2129'FWL	1.0	0.0	0.0	Point
BHL 330' From State Line & 1980'FWL	9231.0	9221.7	-16.6	Point
Landing Pt. 1034'FSL & 1980'FWL	9231.0	145.8	-160.2	Point



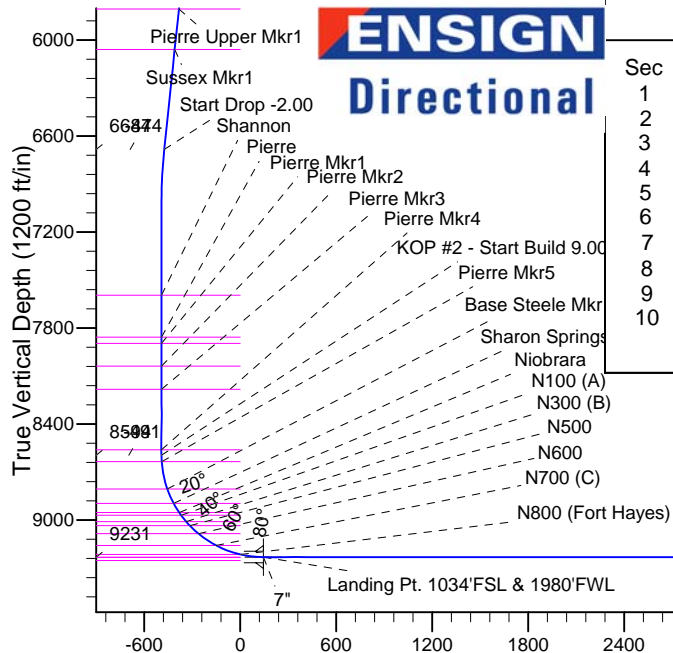
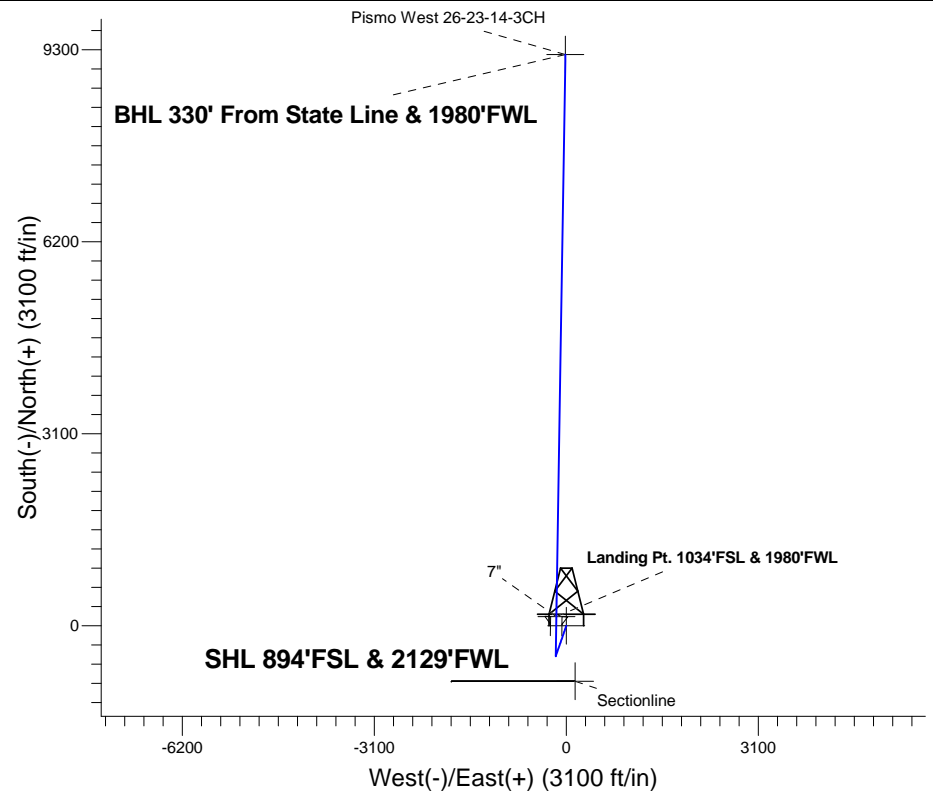
Azimuths to True North
Magnetic North: 8.47°

Magnetic Field
Strength: 53082.1snT
Dip Angle: 67.40°
Date: 8/28/2014
Model: IGRF2010

Pismo West Pad. Sec.26-T12N-R66W
Pismo West 26-23-14-3CH
Plan #2 (9-4-14)
9:54, September 05 2014

ANNOTATIONS

TVD	MD	Annotation
2000.0	2000.0	KOP - Start Build 2.00
6683.8	6711.3	Start Drop -2.00
8594.4	8622.5	KOP #2 - Start Build 9.00
9231.0	18700.0	TD at 18700.0



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	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2316.9	6.34	199.19	2316.2	-16.5	-5.8	2.00	199.19	-16.5	
4	6711.3	6.34	199.19	6683.8	-474.7	-165.2	0.00	0.00	-474.4	
5	7028.1	0.00	0.00	7000.0	-491.2	-171.0	2.00	180.00	-490.9	
6	8622.5	0.00	0.00	8594.4	-491.2	-171.0	0.00	0.00	-490.9	
7	9622.5	90.00	0.97	9231.0	145.3	-160.2	9.00	0.97	145.6	
8	9623.0	90.00	0.97	9231.0	145.8	-160.2	0.00	0.00	146.1	
9	9629.8	90.00	0.91	9231.0	152.6	-160.1	1.00	-90.00	152.9	
10	18700.0	90.00	0.91	9231.0	9221.7	-16.6	0.00	0.00	9221.7	BHL 330' From State Line & 1980'FWL

BHL 330' From State Line & 1980'FWL

Vertical Section at 359.90° (1200 ft/in)



Cirque Resources LP

Sec.26-T12N-R66W

Pismo West Pad. Sec.26-T12N-R66W

Pismo West 26-23-14-3CH

Wellbore #1

Plan: Plan #2 (9-4-14)

Standard Planning Report

05 September, 2014

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,316.9	6.34	199.19	2,316.2	-16.5	-5.8	2.00	2.00	0.00	199.19	
6,711.3	6.34	199.19	6,683.8	-474.7	-165.2	0.00	0.00	0.00	0.00	
7,028.1	0.00	0.00	7,000.0	-491.2	-171.0	2.00	-2.00	0.00	180.00	
8,622.5	0.00	0.00	8,594.4	-491.2	-171.0	0.00	0.00	0.00	0.00	
9,622.5	90.00	0.97	9,231.0	145.3	-160.2	9.00	9.00	0.00	0.97	
9,623.0	90.00	0.97	9,231.0	145.8	-160.2	0.00	0.00	0.00	0.00	
9,629.8	90.00	0.91	9,231.0	152.6	-160.1	1.00	0.00	-1.00	-90.00	
18,700.0	90.00	0.91	9,231.0	9,221.7	-16.6	0.00	0.00	0.00	0.00	BHL 330' From Stat

Database:	Landmark	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Company:	Cirque Resources LP	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Project:	Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site:	Pismo West Pad. Sec.26-T12N-R66W	North Reference:	True
Well:	Pismo West 26-23-14-3CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (9-4-14)		

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
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
2,100.0	2.00	199.19	2,100.0	-1.6	-0.6	-1.6	2.00	2.00	0.00
2,200.0	4.00	199.19	2,199.8	-6.6	-2.3	-6.6	2.00	2.00	0.00
2,224.2	4.48	199.19	2,224.0	-8.3	-2.9	-8.3	2.00	2.00	0.00
Fox Hills									
2,300.0	6.00	199.19	2,299.5	-14.8	-5.2	-14.8	2.00	2.00	0.00
2,316.9	6.34	199.19	2,316.2	-16.5	-5.8	-16.5	2.00	2.00	0.00
2,400.0	6.34	199.19	2,398.8	-25.2	-8.8	-25.2	0.00	0.00	0.00
2,500.0	6.34	199.19	2,498.2	-35.6	-12.4	-35.6	0.00	0.00	0.00
2,600.0	6.34	199.19	2,597.6	-46.1	-16.0	-46.0	0.00	0.00	0.00
2,700.0	6.34	199.19	2,697.0	-56.5	-19.7	-56.4	0.00	0.00	0.00
2,800.0	6.34	199.19	2,796.4	-66.9	-23.3	-66.9	0.00	0.00	0.00
2,900.0	6.34	199.19	2,895.8	-77.3	-26.9	-77.3	0.00	0.00	0.00
3,000.0	6.34	199.19	2,995.2	-87.8	-30.5	-87.7	0.00	0.00	0.00
3,069.2	6.34	199.19	3,064.0	-95.0	-33.1	-94.9	0.00	0.00	0.00
Fox Hills Mkr 1									
3,100.0	6.34	199.19	3,094.6	-98.2	-34.2	-98.1	0.00	0.00	0.00
3,200.0	6.34	199.19	3,194.0	-108.6	-37.8	-108.5	0.00	0.00	0.00
3,300.0	6.34	199.19	3,293.3	-119.0	-41.4	-119.0	0.00	0.00	0.00
3,400.0	6.34	199.19	3,392.7	-129.5	-45.1	-129.4	0.00	0.00	0.00
3,500.0	6.34	199.19	3,492.1	-139.9	-48.7	-139.8	0.00	0.00	0.00
3,600.0	6.34	199.19	3,591.5	-150.3	-52.3	-150.2	0.00	0.00	0.00
3,700.0	6.34	199.19	3,690.9	-160.7	-56.0	-160.6	0.00	0.00	0.00
3,800.0	6.34	199.19	3,790.3	-171.2	-59.6	-171.0	0.00	0.00	0.00
3,900.0	6.34	199.19	3,889.7	-181.6	-63.2	-181.5	0.00	0.00	0.00
4,000.0	6.34	199.19	3,989.1	-192.0	-66.8	-191.9	0.00	0.00	0.00
4,100.0	6.34	199.19	4,088.5	-202.4	-70.5	-202.3	0.00	0.00	0.00
4,200.0	6.34	199.19	4,187.8	-212.9	-74.1	-212.7	0.00	0.00	0.00
4,300.0	6.34	199.19	4,287.2	-223.3	-77.7	-223.1	0.00	0.00	0.00
4,400.0	6.34	199.19	4,386.6	-233.7	-81.4	-233.6	0.00	0.00	0.00
4,500.0	6.34	199.19	4,486.0	-244.1	-85.0	-244.0	0.00	0.00	0.00
4,600.0	6.34	199.19	4,585.4	-254.6	-88.6	-254.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Company:	Cirque Resources LP	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Project:	Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site:	Pismo West Pad. Sec.26-T12N-R66W	North Reference:	True
Well:	Pismo West 26-23-14-3CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (9-4-14)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,700.0	6.34	199.19	4,684.8	-265.0	-92.2	-264.8	0.00	0.00	0.00
4,702.2	6.34	199.19	4,687.0	-265.2	-92.3	-265.0	0.00	0.00	0.00
Teapot									
4,800.0	6.34	199.19	4,784.2	-275.4	-95.9	-275.2	0.00	0.00	0.00
4,900.0	6.34	199.19	4,883.6	-285.8	-99.5	-285.7	0.00	0.00	0.00
5,000.0	6.34	199.19	4,983.0	-296.3	-103.1	-296.1	0.00	0.00	0.00
5,052.4	6.34	199.19	5,035.0	-301.7	-105.0	-301.5	0.00	0.00	0.00
Parkman									
5,100.0	6.34	199.19	5,082.3	-306.7	-106.8	-306.5	0.00	0.00	0.00
5,200.0	6.34	199.19	5,181.7	-317.1	-110.4	-316.9	0.00	0.00	0.00
5,300.0	6.34	199.19	5,281.1	-327.5	-114.0	-327.3	0.00	0.00	0.00
5,400.0	6.34	199.19	5,380.5	-338.0	-117.7	-337.7	0.00	0.00	0.00
5,500.0	6.34	199.19	5,479.9	-348.4	-121.3	-348.2	0.00	0.00	0.00
5,600.0	6.34	199.19	5,579.3	-358.8	-124.9	-358.6	0.00	0.00	0.00
5,661.1	6.34	199.19	5,640.0	-365.2	-127.1	-365.0	0.00	0.00	0.00
Sussex									
5,700.0	6.34	199.19	5,678.7	-369.2	-128.5	-369.0	0.00	0.00	0.00
5,800.0	6.34	199.19	5,778.1	-379.7	-132.2	-379.4	0.00	0.00	0.00
5,827.1	6.34	199.19	5,805.0	-382.5	-133.2	-382.2	0.00	0.00	0.00
Pierre Upper Mkr1									
5,900.0	6.34	199.19	5,877.5	-390.1	-135.8	-389.8	0.00	0.00	0.00
6,000.0	6.34	199.19	5,976.8	-400.5	-139.4	-400.3	0.00	0.00	0.00
6,082.7	6.34	199.19	6,059.0	-409.1	-142.4	-408.9	0.00	0.00	0.00
Sussex Mkr1									
6,100.0	6.34	199.19	6,076.2	-410.9	-143.1	-410.7	0.00	0.00	0.00
6,200.0	6.34	199.19	6,175.6	-421.4	-146.7	-421.1	0.00	0.00	0.00
6,300.0	6.34	199.19	6,275.0	-431.8	-150.3	-431.5	0.00	0.00	0.00
6,400.0	6.34	199.19	6,374.4	-442.2	-153.9	-441.9	0.00	0.00	0.00
6,500.0	6.34	199.19	6,473.8	-452.6	-157.6	-452.4	0.00	0.00	0.00
6,600.0	6.34	199.19	6,573.2	-463.1	-161.2	-462.8	0.00	0.00	0.00
6,700.0	6.34	199.19	6,672.6	-473.5	-164.8	-473.2	0.00	0.00	0.00
6,711.3	6.34	199.19	6,683.8	-474.7	-165.2	-474.4	0.00	0.00	0.00
Start Drop -2.00									
6,800.0	4.56	199.19	6,772.1	-482.6	-168.0	-482.3	2.00	-2.00	0.00
6,900.0	2.56	199.19	6,871.9	-488.5	-170.1	-488.2	2.00	-2.00	0.00
7,000.0	0.56	199.19	6,971.9	-491.1	-171.0	-490.8	2.00	-2.00	0.00
7,028.1	0.00	0.00	7,000.0	-491.2	-171.0	-490.9	2.00	-2.00	0.00
7,100.0	0.00	0.00	7,071.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,171.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,271.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,371.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,471.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,571.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,622.1	0.00	0.00	7,594.0	-491.2	-171.0	-490.9	0.00	0.00	0.00
Shannon									
7,700.0	0.00	0.00	7,671.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,771.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,884.1	0.00	0.00	7,856.0	-491.2	-171.0	-490.9	0.00	0.00	0.00
Pierre									
7,900.0	0.00	0.00	7,871.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
7,924.1	0.00	0.00	7,896.0	-491.2	-171.0	-490.9	0.00	0.00	0.00
Pierre Mkr1									
8,000.0	0.00	0.00	7,971.9	-491.2	-171.0	-490.9	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Company:	Cirque Resources LP	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Project:	Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site:	Pismo West Pad. Sec.26-T12N-R66W	North Reference:	True
Well:	Pismo West 26-23-14-3CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (9-4-14)		

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)
8,065.1	0.00	0.00	8,037.0	-491.2	-171.0	-490.9	0.00	0.00	0.00
Pierre Mkr2									
8,100.0	0.00	0.00	8,071.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,171.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
8,211.1	0.00	0.00	8,183.0	-491.2	-171.0	-490.9	0.00	0.00	0.00
Pierre Mkr3									
8,300.0	0.00	0.00	8,271.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,371.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,471.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
8,589.1	0.00	0.00	8,561.0	-491.2	-171.0	-490.9	0.00	0.00	0.00
Pierre Mkr4									
8,600.0	0.00	0.00	8,571.9	-491.2	-171.0	-490.9	0.00	0.00	0.00
8,622.5	0.00	0.00	8,594.4	-491.2	-171.0	-490.9	0.00	0.00	0.00
KOP #2 - Start Build 9.00									
8,663.2	3.66	0.97	8,635.0	-489.9	-171.0	-489.6	8.99	8.99	0.00
Pierre Mkr5									
8,700.0	6.97	0.97	8,671.7	-486.5	-170.9	-486.2	9.00	9.00	0.00
8,800.0	15.97	0.97	8,769.6	-466.6	-170.6	-466.3	9.00	9.00	0.00
8,837.2	19.32	0.97	8,805.0	-455.4	-170.4	-455.0	9.00	9.00	0.00
Base Steele Mkr									
8,900.0	24.97	0.97	8,863.1	-431.7	-170.0	-431.4	9.00	9.00	0.00
8,935.6	28.18	0.97	8,895.0	-415.8	-169.7	-415.5	9.00	9.00	0.00
Sharon Springs									
9,000.0	33.97	0.97	8,950.1	-382.5	-169.2	-382.2	9.00	9.00	0.00
9,003.5	34.29	0.97	8,953.0	-380.6	-169.1	-380.3	9.00	9.00	0.00
Niobrara									
9,024.3	36.16	0.97	8,970.0	-368.6	-168.9	-368.3	9.00	9.00	0.00
N100 (A)									
9,074.1	40.64	0.97	9,009.0	-337.7	-168.4	-337.4	9.00	9.00	0.00
N300 (B)									
9,100.0	42.97	0.97	9,028.3	-320.4	-168.1	-320.1	9.00	9.00	0.00
9,109.2	43.80	0.97	9,035.0	-314.1	-168.0	-313.8	9.00	9.00	0.00
N500									
9,182.7	50.41	0.97	9,085.0	-260.3	-167.1	-260.0	9.00	9.00	0.00
N600									
9,200.0	51.97	0.97	9,095.9	-246.8	-166.8	-246.5	9.00	9.00	0.00
9,300.0	60.97	0.97	9,151.0	-163.5	-165.4	-163.2	9.00	9.00	0.00
9,314.7	62.29	0.97	9,158.0	-150.6	-165.2	-150.3	9.00	9.00	0.00
N700 (C)									
9,400.0	69.97	0.97	9,192.5	-72.7	-163.9	-72.4	9.00	9.00	0.00
9,479.5	77.13	0.97	9,215.0	3.5	-162.6	3.8	9.00	9.00	0.00
N800 (Fort Hayes)									
9,500.0	78.97	0.97	9,219.2	23.6	-162.2	23.9	9.00	9.00	0.00
9,600.0	87.97	0.97	9,230.6	122.8	-160.6	123.1	9.00	9.00	0.00
9,622.5	90.00	0.97	9,231.0	145.3	-160.2	145.6	9.00	9.00	0.00
9,623.0	90.00	0.97	9,231.0	145.8	-160.2	146.1	0.00	0.00	0.00
7"									
9,629.8	90.00	0.91	9,231.0	152.6	-160.1	152.9	1.00	0.00	-1.00
9,700.0	90.00	0.91	9,231.0	222.8	-158.9	223.1	0.00	0.00	0.00
9,800.0	90.00	0.91	9,231.0	322.8	-157.4	323.1	0.00	0.00	0.00
9,900.0	90.00	0.91	9,231.0	422.8	-155.8	423.0	0.00	0.00	0.00
10,000.0	90.00	0.91	9,231.0	522.8	-154.2	523.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Company:	Cirque Resources LP	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Project:	Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site:	Pismo West Pad. Sec.26-T12N-R66W	North Reference:	True
Well:	Pismo West 26-23-14-3CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (9-4-14)		

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)
10,100.0	90.00	0.91	9,231.0	622.7	-152.6	623.0	0.00	0.00	0.00
10,200.0	90.00	0.91	9,231.0	722.7	-151.0	723.0	0.00	0.00	0.00
10,300.0	90.00	0.91	9,231.0	822.7	-149.5	823.0	0.00	0.00	0.00
10,400.0	90.00	0.91	9,231.0	922.7	-147.9	923.0	0.00	0.00	0.00
10,500.0	90.00	0.91	9,231.0	1,022.7	-146.3	1,023.0	0.00	0.00	0.00
10,600.0	90.00	0.91	9,231.0	1,122.7	-144.7	1,122.9	0.00	0.00	0.00
10,700.0	90.00	0.91	9,231.0	1,222.7	-143.1	1,222.9	0.00	0.00	0.00
10,800.0	90.00	0.91	9,231.0	1,322.7	-141.5	1,322.9	0.00	0.00	0.00
10,900.0	90.00	0.91	9,231.0	1,422.6	-140.0	1,422.9	0.00	0.00	0.00
11,000.0	90.00	0.91	9,231.0	1,522.6	-138.4	1,522.9	0.00	0.00	0.00
11,100.0	90.00	0.91	9,231.0	1,622.6	-136.8	1,622.9	0.00	0.00	0.00
11,200.0	90.00	0.91	9,231.0	1,722.6	-135.2	1,722.8	0.00	0.00	0.00
11,300.0	90.00	0.91	9,231.0	1,822.6	-133.6	1,822.8	0.00	0.00	0.00
11,400.0	90.00	0.91	9,231.0	1,922.6	-132.0	1,922.8	0.00	0.00	0.00
11,500.0	90.00	0.91	9,231.0	2,022.6	-130.5	2,022.8	0.00	0.00	0.00
11,600.0	90.00	0.91	9,231.0	2,122.6	-128.9	2,122.8	0.00	0.00	0.00
11,700.0	90.00	0.91	9,231.0	2,222.5	-127.3	2,222.8	0.00	0.00	0.00
11,800.0	90.00	0.91	9,231.0	2,322.5	-125.7	2,322.7	0.00	0.00	0.00
11,900.0	90.00	0.91	9,231.0	2,422.5	-124.1	2,422.7	0.00	0.00	0.00
12,000.0	90.00	0.91	9,231.0	2,522.5	-122.6	2,522.7	0.00	0.00	0.00
12,100.0	90.00	0.91	9,231.0	2,622.5	-121.0	2,622.7	0.00	0.00	0.00
12,200.0	90.00	0.91	9,231.0	2,722.5	-119.4	2,722.7	0.00	0.00	0.00
12,300.0	90.00	0.91	9,231.0	2,822.5	-117.8	2,822.7	0.00	0.00	0.00
12,400.0	90.00	0.91	9,231.0	2,922.5	-116.2	2,922.7	0.00	0.00	0.00
12,500.0	90.00	0.91	9,231.0	3,022.4	-114.6	3,022.6	0.00	0.00	0.00
12,600.0	90.00	0.91	9,231.0	3,122.4	-113.1	3,122.6	0.00	0.00	0.00
12,700.0	90.00	0.91	9,231.0	3,222.4	-111.5	3,222.6	0.00	0.00	0.00
12,800.0	90.00	0.91	9,231.0	3,322.4	-109.9	3,322.6	0.00	0.00	0.00
12,900.0	90.00	0.91	9,231.0	3,422.4	-108.3	3,422.6	0.00	0.00	0.00
13,000.0	90.00	0.91	9,231.0	3,522.4	-106.7	3,522.6	0.00	0.00	0.00
13,100.0	90.00	0.91	9,231.0	3,622.4	-105.2	3,622.5	0.00	0.00	0.00
13,200.0	90.00	0.91	9,231.0	3,722.4	-103.6	3,722.5	0.00	0.00	0.00
13,300.0	90.00	0.91	9,231.0	3,822.3	-102.0	3,822.5	0.00	0.00	0.00
13,400.0	90.00	0.91	9,231.0	3,922.3	-100.4	3,922.5	0.00	0.00	0.00
13,500.0	90.00	0.91	9,231.0	4,022.3	-98.8	4,022.5	0.00	0.00	0.00
13,600.0	90.00	0.91	9,231.0	4,122.3	-97.2	4,122.5	0.00	0.00	0.00
13,700.0	90.00	0.91	9,231.0	4,222.3	-95.7	4,222.5	0.00	0.00	0.00
13,800.0	90.00	0.91	9,231.0	4,322.3	-94.1	4,322.4	0.00	0.00	0.00
13,900.0	90.00	0.91	9,231.0	4,422.3	-92.5	4,422.4	0.00	0.00	0.00
14,000.0	90.00	0.91	9,231.0	4,522.3	-90.9	4,522.4	0.00	0.00	0.00
14,100.0	90.00	0.91	9,231.0	4,622.2	-89.3	4,622.4	0.00	0.00	0.00
14,200.0	90.00	0.91	9,231.0	4,722.2	-87.8	4,722.4	0.00	0.00	0.00
14,300.0	90.00	0.91	9,231.0	4,822.2	-86.2	4,822.4	0.00	0.00	0.00
14,400.0	90.00	0.91	9,231.0	4,922.2	-84.6	4,922.3	0.00	0.00	0.00
14,500.0	90.00	0.91	9,231.0	5,022.2	-83.0	5,022.3	0.00	0.00	0.00
14,600.0	90.00	0.91	9,231.0	5,122.2	-81.4	5,122.3	0.00	0.00	0.00
14,700.0	90.00	0.91	9,231.0	5,222.2	-79.8	5,222.3	0.00	0.00	0.00
14,800.0	90.00	0.91	9,231.0	5,322.2	-78.3	5,322.3	0.00	0.00	0.00
14,900.0	90.00	0.91	9,231.0	5,422.1	-76.7	5,422.3	0.00	0.00	0.00
15,000.0	90.00	0.91	9,231.0	5,522.1	-75.1	5,522.3	0.00	0.00	0.00
15,100.0	90.00	0.91	9,231.0	5,622.1	-73.5	5,622.2	0.00	0.00	0.00
15,200.0	90.00	0.91	9,231.0	5,722.1	-71.9	5,722.2	0.00	0.00	0.00
15,300.0	90.00	0.91	9,231.0	5,822.1	-70.4	5,822.2	0.00	0.00	0.00
15,400.0	90.00	0.91	9,231.0	5,922.1	-68.8	5,922.2	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Company:	Cirque Resources LP	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Project:	Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site:	Pismo West Pad. Sec.26-T12N-R66W	North Reference:	True
Well:	Pismo West 26-23-14-3CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (9-4-14)		

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)
15,500.0	90.00	0.91	9,231.0	6,022.1	-67.2	6,022.2	0.00	0.00	0.00
15,600.0	90.00	0.91	9,231.0	6,122.1	-65.6	6,122.2	0.00	0.00	0.00
15,700.0	90.00	0.91	9,231.0	6,222.0	-64.0	6,222.1	0.00	0.00	0.00
15,800.0	90.00	0.91	9,231.0	6,322.0	-62.4	6,322.1	0.00	0.00	0.00
15,900.0	90.00	0.91	9,231.0	6,422.0	-60.9	6,422.1	0.00	0.00	0.00
16,000.0	90.00	0.91	9,231.0	6,522.0	-59.3	6,522.1	0.00	0.00	0.00
16,100.0	90.00	0.91	9,231.0	6,622.0	-57.7	6,622.1	0.00	0.00	0.00
16,200.0	90.00	0.91	9,231.0	6,722.0	-56.1	6,722.1	0.00	0.00	0.00
16,300.0	90.00	0.91	9,231.0	6,822.0	-54.5	6,822.1	0.00	0.00	0.00
16,400.0	90.00	0.91	9,231.0	6,922.0	-52.9	6,922.0	0.00	0.00	0.00
16,500.0	90.00	0.91	9,231.0	7,021.9	-51.4	7,022.0	0.00	0.00	0.00
16,600.0	90.00	0.91	9,231.0	7,121.9	-49.8	7,122.0	0.00	0.00	0.00
16,700.0	90.00	0.91	9,231.0	7,221.9	-48.2	7,222.0	0.00	0.00	0.00
16,800.0	90.00	0.91	9,231.0	7,321.9	-46.6	7,322.0	0.00	0.00	0.00
16,900.0	90.00	0.91	9,231.0	7,421.9	-45.0	7,422.0	0.00	0.00	0.00
17,000.0	90.00	0.91	9,231.0	7,521.9	-43.5	7,521.9	0.00	0.00	0.00
17,100.0	90.00	0.91	9,231.0	7,621.9	-41.9	7,621.9	0.00	0.00	0.00
17,200.0	90.00	0.91	9,231.0	7,721.9	-40.3	7,721.9	0.00	0.00	0.00
17,300.0	90.00	0.91	9,231.0	7,821.8	-38.7	7,821.9	0.00	0.00	0.00
17,400.0	90.00	0.91	9,231.0	7,921.8	-37.1	7,921.9	0.00	0.00	0.00
17,500.0	90.00	0.91	9,231.0	8,021.8	-35.5	8,021.9	0.00	0.00	0.00
17,600.0	90.00	0.91	9,231.0	8,121.8	-34.0	8,121.8	0.00	0.00	0.00
17,700.0	90.00	0.91	9,231.0	8,221.8	-32.4	8,221.8	0.00	0.00	0.00
17,800.0	90.00	0.91	9,231.0	8,321.8	-30.8	8,321.8	0.00	0.00	0.00
17,900.0	90.00	0.91	9,231.0	8,421.8	-29.2	8,421.8	0.00	0.00	0.00
18,000.0	90.00	0.91	9,231.0	8,521.8	-27.6	8,521.8	0.00	0.00	0.00
18,100.0	90.00	0.91	9,231.0	8,621.7	-26.1	8,621.8	0.00	0.00	0.00
18,200.0	90.00	0.91	9,231.0	8,721.7	-24.5	8,721.8	0.00	0.00	0.00
18,300.0	90.00	0.91	9,231.0	8,821.7	-22.9	8,821.7	0.00	0.00	0.00
18,400.0	90.00	0.91	9,231.0	8,921.7	-21.3	8,921.7	0.00	0.00	0.00
18,500.0	90.00	0.91	9,231.0	9,021.7	-19.7	9,021.7	0.00	0.00	0.00
18,600.0	90.00	0.91	9,231.0	9,121.7	-18.1	9,121.7	0.00	0.00	0.00
18,700.0	90.00	0.91	9,231.0	9,221.7	-16.6	9,221.7	0.00	0.00	0.00
TD at 18700.0									

Database:	Landmark	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Company:	Cirque Resources LP	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Project:	Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site:	Pismo West Pad. Sec.26-T12N-R66W	North Reference:	True
Well:	Pismo West 26-23-14-3CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (9-4-14)		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Sectionline	0.00	0.00	1.0	-894.0	141.4	1,597,641.37	3,208,591.91	40.971446	-104.744668
- plan misses target center by 905.1ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1			1.0	0.0	0.0	1,597,641.37	3,208,591.91		
Point 2			1.0	0.0	-2,000.0	1,597,624.34	3,206,591.91		
Landing Pt. 1034'FSL	0.00	0.00	9,231.0	145.8	-160.2	1,598,678.60	3,208,281.47	40.974300	-104.745760
- plan hits target center									
- Point									
BHL 330' From State	0.00	0.00	9,231.0	9,221.7	-16.6	1,607,755.72	3,208,347.82	40.999210	-104.745240
- plan hits target center									
- Point									
SHL 894'FSL & 2129'	0.00	0.00	1.0	0.0	0.0	1,598,534.17	3,208,442.88	40.973900	-104.745180
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(")	(")
	9,623.0	9,231.0	7"	7	7-1/2

Database:	Landmark	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Company:	Cirque Resources LP	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Project:	Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site:	Pismo West Pad. Sec.26-T12N-R66W	North Reference:	True
Well:	Pismo West 26-23-14-3CH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (9-4-14)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,224.2	2,224.0	Fox Hills				
3,069.2	3,064.0	Fox Hills Mkr 1				
4,702.2	4,687.0	Teapot				
5,052.4	5,035.0	Parkman				
5,661.1	5,640.0	Sussex				
5,827.1	5,805.0	Pierre Upper Mkr1				
6,082.7	6,059.0	Sussex Mkr1				
7,622.1	7,594.0	Shannon				
7,884.1	7,856.0	Pierre				
7,924.1	7,896.0	Pierre Mkr1				
8,065.1	8,037.0	Pierre Mkr2				
8,211.1	8,183.0	Pierre Mkr3				
8,589.1	8,561.0	Pierre Mkr4				
8,663.2	8,635.0	Pierre Mkr5				
8,837.2	8,805.0	Base Steele Mkr				
8,935.6	8,895.0	Sharon Springs				
9,003.5	8,953.0	Niobrara				
9,024.3	8,970.0	N100 (A)				
9,074.1	9,009.0	N300 (B)				
9,109.2	9,035.0	N500				
9,182.7	9,085.0	N600				
9,314.7	9,158.0	N700 (C)				
9,479.5	9,215.0	N800 (Fort Hayes)				
	9,233.0	Codell				
	9,233.0	N900				
	9,253.0	Carlile				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,000.0	2,000.0	0.0	0.0	KOP - Start Build 2.00
6,711.3	6,683.8	-474.7	-165.2	Start Drop -2.00
8,622.5	8,594.4	-491.2	-171.0	KOP #2 - Start Build 9.00
18,700.0	9,231.0	9,221.7	-16.6	TD at 18700.0



Cirque Resources LP

Sec.26-T12N-R66W

Pismo West Pad. Sec.26-T12N-R66W

Pismo West 26-23-14-3CH

Wellbore #1

Plan #2 (9-4-14)

Anticollision Report

05 September, 2014

Company:	Cirque Resources LP	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Project:	Sec.26-T12N-R66W	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Reference Site:	Pismo West Pad. Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pismo West 26-23-14-3CH	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 #2 (9-4-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Pismo West Pad. Sec.26-T12N-R66W - Pismo West 26-23-14-1CH - Wellbore #1 - Plan #2 (9-4-14)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
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
2,100.0	2,100.0	2,043.6	2,009.6	4.6	7.9	56.47	-100.1	-396.0	417.4	407.9	9.55	43.695	
2,200.0	2,199.8	2,141.7	2,105.4	4.8	8.4	56.53	-106.8	-416.3	436.3	426.3	10.00	43.648	
2,300.0	2,299.5	2,240.1	2,201.4	4.9	8.9	56.96	-113.4	-436.6	453.3	442.8	10.45	43.376	
2,400.0	2,398.8	2,338.6	2,297.5	5.1	9.3	57.82	-120.1	-456.9	469.1	458.2	10.92	42.968	
2,500.0	2,498.2	2,437.1	2,393.7	5.3	9.8	58.67	-126.8	-477.2	485.1	473.7	11.40	42.551	
2,600.0	2,597.6	2,535.5	2,489.8	5.5	10.3	59.47	-133.4	-497.6	501.1	489.2	11.89	42.134	
2,700.0	2,697.0	2,634.0	2,585.9	5.8	10.8	60.21	-140.1	-517.9	517.3	504.9	12.40	41.719	
2,800.0	2,796.4	2,732.5	2,682.0	6.0	11.2	60.92	-146.8	-538.2	533.5	520.6	12.91	41.310	
2,900.0	2,895.8	2,831.0	2,778.1	6.2	11.7	61.58	-153.5	-558.5	549.7	536.3	13.44	40.910	
3,000.0	2,995.2	2,929.4	2,874.3	6.5	12.2	62.20	-160.1	-578.8	566.1	552.1	13.97	40.519	
3,100.0	3,094.6	3,027.9	2,970.4	6.7	12.7	62.79	-166.8	-599.1	582.5	568.0	14.51	40.140	
3,200.0	3,194.0	3,126.4	3,066.5	7.0	13.1	63.35	-173.5	-619.5	599.0	583.9	15.06	39.773 SF	

Pismo West Pad. Sec.26-T12N-R66W - Pismo West 26-35-2-14-2CH - Wellbore #1 - Plan #1 (8-27-14)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-38.7	38.7					
100.0	100.0	100.0	100.0	0.1	0.1	-90.01	0.0	-38.7	38.7	38.4	0.22	172.001		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-38.7	38.7	38.0	0.67	57.334		
300.0	300.0	300.0	300.0	0.6	0.6	-90.01	0.0	-38.7	38.7	37.5	1.12	34.400		
400.0	400.0	400.0	400.0	0.8	0.8	-90.01	0.0	-38.7	38.7	37.1	1.57	24.572 CC, ES		
500.0	500.0	498.7	498.7	1.0	1.0	-90.89	-0.6	-40.2	40.3	38.3	2.00	20.098		
600.0	600.0	597.2	597.1	1.2	1.2	-93.16	-2.5	-45.0	45.1	42.7	2.43	18.564 SF		
700.0	700.0	695.2	694.7	1.5	1.4	-96.02	-5.6	-52.8	53.4	50.5	2.87	18.591		
800.0	800.0	792.6	791.3	1.7	1.7	-98.78	-9.8	-63.7	65.0	61.7	3.32	19.596		
900.0	900.0	889.0	886.6	1.9	2.0	-101.14	-15.2	-77.4	80.0	76.2	3.77	21.225		
1,000.0	1,000.0	984.6	980.5	2.1	2.3	-103.03	-21.8	-94.0	98.4	94.2	4.23	23.251		
1,100.0	1,100.0	1,082.2	1,076.2	2.4	2.7	-104.46	-29.0	-112.4	118.5	113.8	4.70	25.207		
1,200.0	1,200.0	1,180.2	1,172.1	2.6	3.1	-105.48	-36.3	-130.9	138.6	133.5	5.17	26.816		
1,300.0	1,300.0	1,278.1	1,267.9	2.8	3.5	-106.25	-43.5	-149.3	158.8	153.2	5.65	28.130		
1,400.0	1,400.0	1,376.0	1,363.8	3.0	4.0	-106.84	-50.8	-167.8	179.0	172.9	6.13	29.220		
1,500.0	1,500.0	1,473.9	1,459.7	3.3	4.4	-107.31	-58.0	-186.3	199.2	192.6	6.61	30.136		
1,600.0	1,600.0	1,571.9	1,555.6	3.5	4.8	-107.69	-65.3	-204.7	219.4	212.3	7.10	30.915		
1,700.0	1,700.0	1,669.8	1,651.5	3.7	5.3	-108.01	-72.6	-223.2	239.7	232.1	7.59	31.584		
1,800.0	1,800.0	1,767.7	1,747.4	3.9	5.7	-108.28	-79.8	-241.7	259.9	251.8	8.08	32.166		
1,900.0	1,900.0	1,865.6	1,843.3	4.2	6.1	-108.51	-87.1	-260.1	280.1	271.5	8.57	32.675		
2,000.0	2,000.0	1,963.6	1,939.2	4.4	6.6	-108.71	-94.3	-278.6	300.4	291.3	9.07	33.123		
2,100.0	2,100.0	2,061.7	2,035.3	4.6	7.0	51.87	-101.6	-297.1	319.6	310.2	9.36	34.143		
2,200.0	2,199.8	2,160.2	2,131.7	4.8	7.5	52.14	-108.9	-315.7	336.6	326.8	9.79	34.378		
2,300.0	2,299.5	2,258.9	2,228.4	4.9	7.9	52.84	-116.2	-334.3	351.7	341.4	10.24	34.357		
2,400.0	2,398.8	2,357.7	2,325.1	5.1	8.4	53.96	-123.6	-352.9	365.5	354.8	10.69	34.173		
2,500.0	2,498.2	2,456.4	2,421.9	5.3	8.8	55.05	-130.9	-371.6	379.3	368.2	11.17	33.973		
2,600.0	2,597.6	2,555.2	2,518.6	5.5	9.3	56.05	-138.2	-390.2	393.4	381.7	11.65	33.762		
2,700.0	2,697.0	2,654.0	2,615.3	5.8	9.7	56.99	-145.5	-408.8	407.5	395.3	12.15	33.545		
2,800.0	2,796.4	2,752.8	2,712.1	6.0	10.2	57.86	-152.9	-427.4	421.7	409.1	12.65	33.325		
2,900.0	2,895.8	2,851.6	2,808.8	6.2	10.6	58.67	-160.2	-446.1	436.0	422.9	13.17	33.103		
3,000.0	2,995.2	2,950.4	2,905.5	6.5	11.1	59.44	-167.5	-464.7	450.4	436.7	13.70	32.883		
3,100.0	3,094.6	3,049.1	3,002.3	6.7	11.5	60.16	-174.8	-483.3	464.9	450.7	14.23	32.665		
3,200.0	3,194.0	3,147.9	3,099.0	7.0	12.0	60.83	-182.2	-502.0	479.5	464.7	14.78	32.450		
3,300.0	3,293.3	3,246.7	3,195.7	7.2	12.4	61.46	-189.5	-520.6	494.1	478.7	15.32	32.240		
3,400.0	3,392.7	3,345.5	3,292.5	7.5	12.9	62.06	-196.8	-539.2	508.7	492.8	15.88	32.036		
3,500.0	3,492.1	3,444.3	3,389.2	7.8	13.3	62.63	-204.1	-557.9	523.4	507.0	16.44	31.837		
3,600.0	3,591.5	3,543.1	3,485.9	8.0	13.8	63.16	-211.5	-576.5	538.2	521.2	17.01	31.644		
3,700.0	3,690.9	3,641.8	3,582.7	8.3	14.2	63.66	-218.8	-595.1	553.0	535.4	17.58	31.457		
3,800.0	3,790.3	3,740.6	3,679.4	8.6	14.7	64.14	-226.1	-613.8	567.8	549.7	18.15	31.277		
3,900.0	3,889.7	3,839.4	3,776.1	8.9	15.1	64.60	-233.4	-632.4	582.7	564.0	18.73	31.102		
4,000.0	3,989.1	3,938.2	3,872.9	9.1	15.6	65.03	-240.8	-651.0	597.6	578.3	19.32	30.934		

Company:	Cirque Resources LP	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Project:	Sec.26-T12N-R66W	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Reference Site:	Pismo West Pad. Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pismo West 26-23-14-3CH	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 #2 (9-4-14)	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							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		
0.0	0.0	0.0	0.0	0.0	0.0	90.01	0.0	41.4	41.4					
100.0	100.0	100.0	100.0	0.1	0.1	90.01	0.0	41.4	41.4	41.2	0.22	184.287		
200.0	200.0	200.0	200.0	0.3	0.3	90.01	0.0	41.4	41.4	40.7	0.67	61.429		
300.0	300.0	300.0	300.0	0.6	0.6	90.01	0.0	41.4	41.4	40.3	1.12	36.857		
400.0	400.0	400.0	400.0	0.8	0.8	90.01	0.0	41.4	41.4	39.8	1.57	26.327		
500.0	500.0	500.0	500.0	1.0	1.0	90.01	0.0	41.4	41.4	39.4	2.02	20.476		
600.0	600.0	600.0	600.0	1.2	1.2	90.01	0.0	41.4	41.4	38.9	2.47	16.753		
700.0	700.0	700.0	700.0	1.5	1.5	90.01	0.0	41.4	41.4	38.5	2.92	14.176		
800.0	800.0	800.0	800.0	1.7	1.7	90.01	0.0	41.4	41.4	38.0	3.37	12.286		
900.0	900.0	900.0	900.0	1.9	1.9	90.01	0.0	41.4	41.4	37.6	3.82	10.840		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.01	0.0	41.4	41.4	37.2	4.27	9.699 CC		
1,027.6	1,027.6	1,027.6	1,027.6	2.2	2.2	90.19	-0.1	41.4	41.4	37.0	4.39	9.443		
1,100.0	1,100.0	1,100.0	1,099.9	2.4	2.3	92.42	-1.7	41.4	41.5	36.8	4.69	8.838 ES		
1,200.0	1,200.0	1,199.7	1,199.5	2.6	2.5	99.54	-7.0	41.4	42.0	36.9	5.09	8.252		
1,300.0	1,300.0	1,299.5	1,299.0	2.8	2.7	110.67	-15.5	41.1	43.9	38.4	5.51	7.978		
1,400.0	1,400.0	1,399.5	1,398.3	3.0	2.9	124.53	-26.5	38.5	46.7	40.8	5.95	7.853		
1,500.0	1,500.0	1,498.7	1,496.6	3.3	3.2	138.92	-39.0	34.0	51.8	45.4	6.41	8.084		
1,600.0	1,600.0	1,597.7	1,594.8	3.5	3.4	150.29	-51.6	29.4	59.6	52.7	6.87	8.669		
1,700.0	1,700.0	1,696.8	1,692.9	3.7	3.7	158.82	-64.1	24.9	69.1	61.8	7.34	9.425		
1,800.0	1,800.0	1,795.9	1,791.1	3.9	4.0	165.19	-76.7	20.3	79.8	72.0	7.80	10.240		
1,900.0	1,900.0	1,895.0	1,889.3	4.2	4.2	170.02	-89.3	15.7	91.3	83.0	8.26	11.055		
2,000.0	2,000.0	1,994.1	1,987.5	4.4	4.5	173.76	-101.8	11.1	103.2	94.5	8.72	11.841		
2,100.0	2,100.0	2,093.4	2,085.9	4.6	4.8	-22.73	-114.4	6.6	113.9	104.9	9.01	12.644		
2,200.0	2,199.8	2,193.0	2,184.6	4.8	5.2	-21.08	-127.1	2.0	121.5	112.1	9.40	12.931		
2,300.0	2,299.5	2,292.9	2,283.6	4.9	5.5	-20.19	-139.8	-2.6	126.0	116.2	9.79	12.864		
2,400.0	2,398.8	2,392.9	2,382.6	5.1	5.8	-19.72	-152.4	-7.3	128.3	118.1	10.21	12.567		
2,500.0	2,498.2	2,492.8	2,481.7	5.3	6.1	-19.28	-165.1	-11.9	130.6	119.9	10.63	12.278		
2,600.0	2,597.6	2,592.8	2,580.7	5.5	6.4	-18.85	-177.8	-16.5	132.8	121.8	11.06	12.006		
2,700.0	2,697.0	2,692.8	2,679.8	5.8	6.8	-18.43	-190.5	-21.1	135.1	123.6	11.50	11.751		
2,800.0	2,796.4	2,792.8	2,778.8	6.0	7.1	-18.04	-203.2	-25.7	137.4	125.5	11.94	11.511		
2,900.0	2,895.8	2,892.7	2,877.9	6.2	7.4	-17.65	-215.9	-30.3	139.7	127.4	12.38	11.286		
3,000.0	2,995.2	2,992.7	2,976.9	6.5	7.8	-17.28	-228.6	-34.9	142.0	129.2	12.83	11.074		
3,100.0	3,094.6	3,092.7	3,076.0	6.7	8.1	-16.91	-241.2	-39.5	144.4	131.1	13.28	10.874		
3,200.0	3,194.0	3,192.6	3,175.1	7.0	8.4	-16.56	-253.9	-44.1	146.7	133.0	13.73	10.687		
3,300.0	3,293.3	3,292.6	3,274.1	7.2	8.8	-16.22	-266.6	-48.7	149.0	134.8	14.18	10.509		
3,400.0	3,392.7	3,392.6	3,373.2	7.5	9.1	-15.89	-279.3	-53.4	151.3	136.7	14.63	10.342		
3,500.0	3,492.1	3,492.5	3,472.2	7.8	9.4	-15.58	-292.0	-58.0	153.7	138.6	15.09	10.184		
3,600.0	3,591.5	3,592.5	3,571.3	8.0	9.8	-15.27	-304.7	-62.6	156.0	140.5	15.55	10.035		
3,700.0	3,690.9	3,692.5	3,670.3	8.3	10.1	-14.97	-317.3	-67.2	158.4	142.4	16.01	9.894		
3,800.0	3,790.3	3,792.4	3,769.4	8.6	10.4	-14.67	-330.0	-71.8	160.7	144.2	16.47	9.760		
3,900.0	3,889.7	3,892.4	3,868.4	8.9	10.8	-14.39	-342.7	-76.4	163.1	146.1	16.93	9.633		
4,000.0	3,989.1	3,992.4	3,967.5	9.1	11.1	-14.12	-355.4	-81.0	165.4	148.0	17.39	9.513		
4,100.0	4,088.5	4,092.4	4,066.5	9.4	11.5	-13.85	-368.1	-85.6	167.8	149.9	17.85	9.398		
4,200.0	4,187.8	4,192.3	4,165.6	9.7	11.8	-13.59	-380.8	-90.2	170.2	151.8	18.32	9.289		
4,300.0	4,287.2	4,292.3	4,264.6	10.0	12.1	-13.34	-393.5	-94.8	172.5	153.7	18.78	9.186		
4,400.0	4,386.6	4,392.3	4,363.7	10.3	12.5	-13.09	-406.1	-99.5	174.9	155.6	19.25	9.087		
4,500.0	4,486.0	4,492.2	4,462.8	10.6	12.8	-12.85	-418.8	-104.1	177.3	157.6	19.71	8.992		
4,600.0	4,585.4	4,592.2	4,561.8	10.9	13.2	-12.62	-431.5	-108.7	179.6	159.5	20.18	8.902		
4,700.0	4,684.8	4,692.2	4,660.9	11.1	13.5	-12.39	-444.2	-113.3	182.0	161.4	20.65	8.816		
4,800.0	4,784.2	4,792.1	4,759.9	11.4	13.8	-12.17	-456.9	-117.9	184.4	163.3	21.11	8.734		
4,900.0	4,883.6	4,892.1	4,859.0	11.7	14.2	-11.95	-469.6	-122.5	186.8	165.2	21.58	8.655		
5,000.0	4,983.0	4,992.1	4,958.0	12.0	14.5	-11.74	-482.2	-127.1	189.2	167.1	22.05	8.579		

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

Company:	Cirque Resources LP	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Project:	Sec.26-T12N-R66W	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Reference Site:	Pismo West Pad. Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pismo West 26-23-14-3CH	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 #2 (9-4-14)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Pismo West Pad. Sec.26-T12N-R66W - Pismo West 26-35-2-14-4CH - Wellbore #1 - Plan #1 (8-28-14)												Offset Well Error:	0.0 ft
Survey Program: 0-MWD													
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
5,100.0	5,082.3	5,092.0	5,057.1	12.3	14.9	-11.54	-494.9	-131.7	191.6	169.1	22.52	8.507	
5,200.0	5,181.7	5,192.0	5,156.1	12.6	15.2	-11.34	-507.6	-136.3	194.0	171.0	22.99	8.437	
5,300.0	5,281.1	5,292.0	5,255.2	12.9	15.6	-11.15	-520.3	-141.0	196.4	172.9	23.46	8.371	
5,400.0	5,380.5	5,392.0	5,354.2	13.2	15.9	-10.95	-533.0	-145.6	198.8	174.8	23.93	8.306	
5,500.0	5,479.9	5,491.9	5,453.3	13.5	16.2	-10.77	-545.7	-150.2	201.2	176.8	24.40	8.245	
5,600.0	5,579.3	5,591.9	5,552.3	13.8	16.6	-10.59	-558.4	-154.8	203.6	178.7	24.87	8.185	
5,700.0	5,678.7	5,694.8	5,654.3	14.1	16.9	-10.42	-571.1	-159.4	205.7	180.4	25.34	8.118	
5,800.0	5,778.1	5,802.3	5,761.3	14.4	17.2	-10.43	-581.4	-163.2	204.8	179.0	25.79	7.944	
5,900.0	5,877.5	5,909.7	5,868.4	14.7	17.4	-10.66	-588.0	-165.5	200.3	174.1	26.23	7.635	
6,000.0	5,976.8	6,016.5	5,975.2	15.0	17.5	-11.14	-590.7	-166.5	192.1	165.4	26.68	7.200	
6,100.0	6,076.2	6,117.5	6,076.2	15.3	17.7	-11.81	-590.8	-166.6	181.4	154.3	27.14	6.684	
6,200.0	6,175.6	6,216.9	6,175.6	15.6	17.8	-12.57	-590.8	-166.6	170.6	143.0	27.58	6.185	
6,300.0	6,275.0	6,316.3	6,275.0	15.9	17.9	-13.43	-590.8	-166.6	159.8	131.8	28.04	5.700	
6,400.0	6,374.4	6,415.7	6,374.4	16.2	18.1	-14.42	-590.8	-166.6	149.1	120.6	28.51	5.231	
6,500.0	6,473.8	6,515.1	6,473.8	16.5	18.2	-15.56	-590.8	-166.6	138.5	109.5	28.99	4.776	
6,600.0	6,573.2	6,614.5	6,573.2	16.8	18.4	-16.88	-590.8	-166.6	127.9	98.4	29.49	4.335	
6,700.0	6,672.6	6,713.9	6,672.6	17.1	18.5	-18.45	-590.8	-166.6	117.3	87.3	30.02	3.908	
6,800.0	6,772.1	6,813.4	6,772.1	17.4	18.6	-20.01	-590.8	-166.6	108.2	77.6	30.54	3.542	
6,900.0	6,871.9	6,913.2	6,871.9	17.6	18.8	-21.16	-590.8	-166.6	102.4	71.4	30.99	3.303	
7,000.0	6,971.9	7,013.1	6,971.9	17.8	18.9	-21.71	-590.8	-166.6	99.8	68.5	31.37	3.182	
7,051.4	7,023.2	7,064.5	7,023.2	17.9	19.0	-21.79	-590.8	-166.6	99.5	67.9	31.56	3.152	
7,100.0	7,071.9	7,113.1	7,071.9	17.9	19.1	177.46	-590.8	-166.6	99.7	67.9	31.82	3.134	
7,200.0	7,171.9	7,213.1	7,171.9	18.1	19.2	177.46	-590.8	-166.6	99.7	67.5	32.19	3.098	
7,300.0	7,271.9	7,313.1	7,271.9	18.3	19.4	177.46	-590.8	-166.6	99.7	67.1	32.56	3.062	
7,400.0	7,371.9	7,413.1	7,371.9	18.4	19.5	177.46	-590.8	-166.6	99.7	66.8	32.93	3.027	
7,500.0	7,471.9	7,513.1	7,471.9	18.6	19.7	177.46	-590.8	-166.6	99.7	66.4	33.31	2.993	
7,600.0	7,571.9	7,613.1	7,571.9	18.8	19.9	177.46	-590.8	-166.6	99.7	66.0	33.69	2.960	
7,700.0	7,671.9	7,713.1	7,671.9	18.9	20.0	177.46	-590.8	-166.6	99.7	65.6	34.07	2.927	
7,800.0	7,771.9	7,813.1	7,771.9	19.1	20.2	177.46	-590.8	-166.6	99.7	65.3	34.45	2.894	
7,900.0	7,871.9	7,913.1	7,871.9	19.3	20.3	177.46	-590.8	-166.6	99.7	64.9	34.83	2.863	
8,000.0	7,971.9	8,013.1	7,971.9	19.4	20.5	177.46	-590.8	-166.6	99.7	64.5	35.21	2.831	
8,100.0	8,071.9	8,113.1	8,071.9	19.6	20.7	177.46	-590.8	-166.6	99.7	64.1	35.60	2.801	
8,200.0	8,171.9	8,213.1	8,171.9	19.8	20.8	177.46	-590.8	-166.6	99.7	63.7	35.99	2.770	
8,300.0	8,271.9	8,313.1	8,271.9	20.0	21.0	177.46	-590.8	-166.6	99.7	63.3	36.38	2.741	
8,400.0	8,371.9	8,413.1	8,371.9	20.1	21.2	177.46	-590.8	-166.6	99.7	62.9	36.77	2.712	
8,500.0	8,471.9	8,513.1	8,471.9	20.3	21.3	177.46	-590.8	-166.6	99.7	62.5	37.16	2.683	
8,600.0	8,571.9	8,613.1	8,571.9	20.5	21.5	177.46	-590.8	-166.6	99.7	62.2	37.55	2.655 SF	
8,700.0	8,671.7	8,700.0	8,658.6	20.6	21.7	176.65	-594.1	-166.6	108.4	71.0	37.47	2.894	
8,800.0	8,769.6	8,779.8	8,737.2	20.7	22.0	177.15	-607.0	-166.7	144.1	107.4	36.79	3.918	
8,900.0	8,863.1	8,843.0	8,798.1	20.7	22.2	177.49	-624.3	-166.8	203.3	167.8	35.53	5.722	
9,000.0	8,950.1	8,889.4	8,841.4	20.6	22.5	177.53	-640.7	-166.9	280.1	246.3	33.78	8.291	
9,100.0	9,028.3	8,919.8	8,869.1	20.5	22.7	177.15	-653.1	-167.0	368.9	337.1	31.71	11.631	
9,200.0	9,095.9	8,936.6	8,884.2	20.4	22.8	175.60	-660.6	-167.1	464.8	435.2	29.60	15.702	
9,300.0	9,151.0	8,950.0	8,896.1	20.3	22.8	162.15	-666.8	-167.1	564.2	534.4	29.76	18.958	

Company:	Cirque Resources LP	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Project:	Sec.26-T12N-R66W	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Reference Site:	Pismo West Pad. Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pismo West 26-23-14-3CH	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 #2 (9-4-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 6241.0ft (RKB - 25')

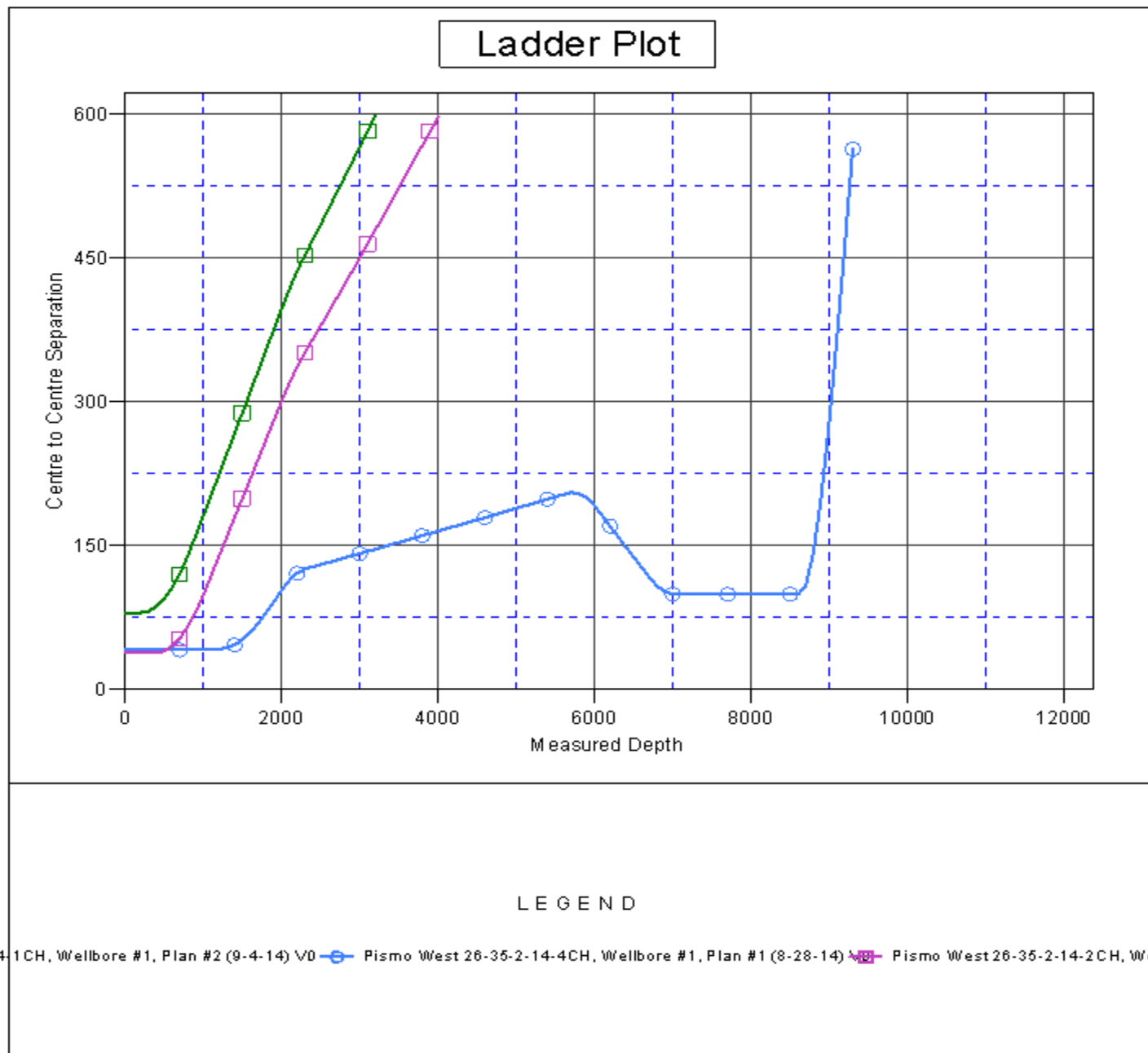
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Pismo West 26-23-14-3CH

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.49°



Company:	Cirque Resources LP	Local Co-ordinate Reference:	Well Pismo West 26-23-14-3CH
Project:	Sec.26-T12N-R66W	TVD Reference:	WELL @ 6241.0ft (RKB - 25')
Reference Site:	Pismo West Pad. Sec.26-T12N-R66W	MD Reference:	WELL @ 6241.0ft (RKB - 25')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pismo West 26-23-14-3CH	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 #2 (9-4-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 6241.0ft (RKB - 25')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Pismo West 26-23-14-3CH
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.49°

