



Berry Petroleum Company

# **BERRY PETROLEUM COMPANY**

**GARFIELD COUNTY, COLORADO**

**OM G03 696 PAD**

**GRANLEE OM02D**

**OM02D**

**Plan: PLAN #1**

## **Standard Planning Report**

**08 September, 2008**



**Weatherford®**



Berry Petroleum Company

GRANLEE OM02D  
GARFIELD COUNTY, COLORADO  
SECTION 3-T6S-R96W  
1956 FNL, 1576' FEL  
39° 33' 27.650 N  
108° 5' 29.9400 W



Weatherford®

WELL DETAILS: GRANLEE OM02D

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1638435.83	2269375.19	8163.50	39° 33' 27.650 N	108° 5' 29.9400 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

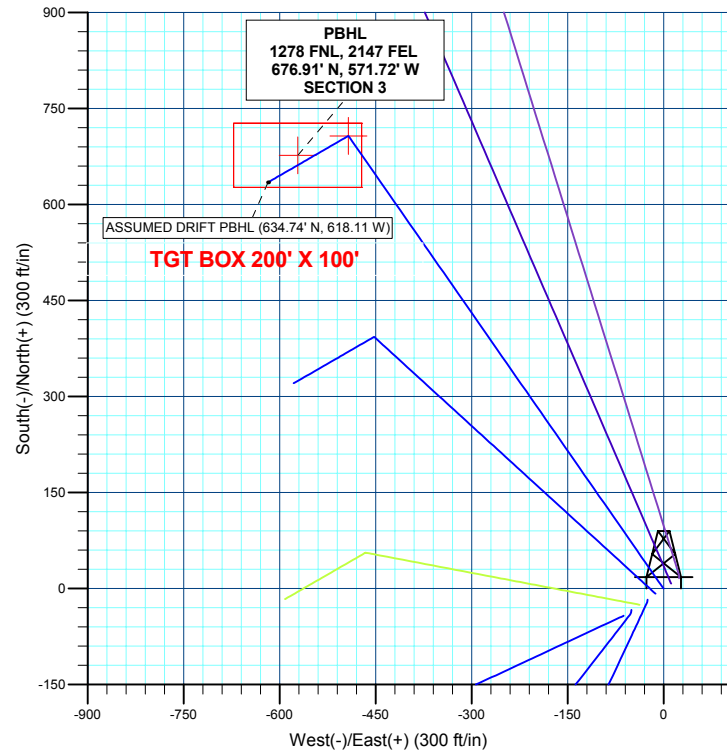
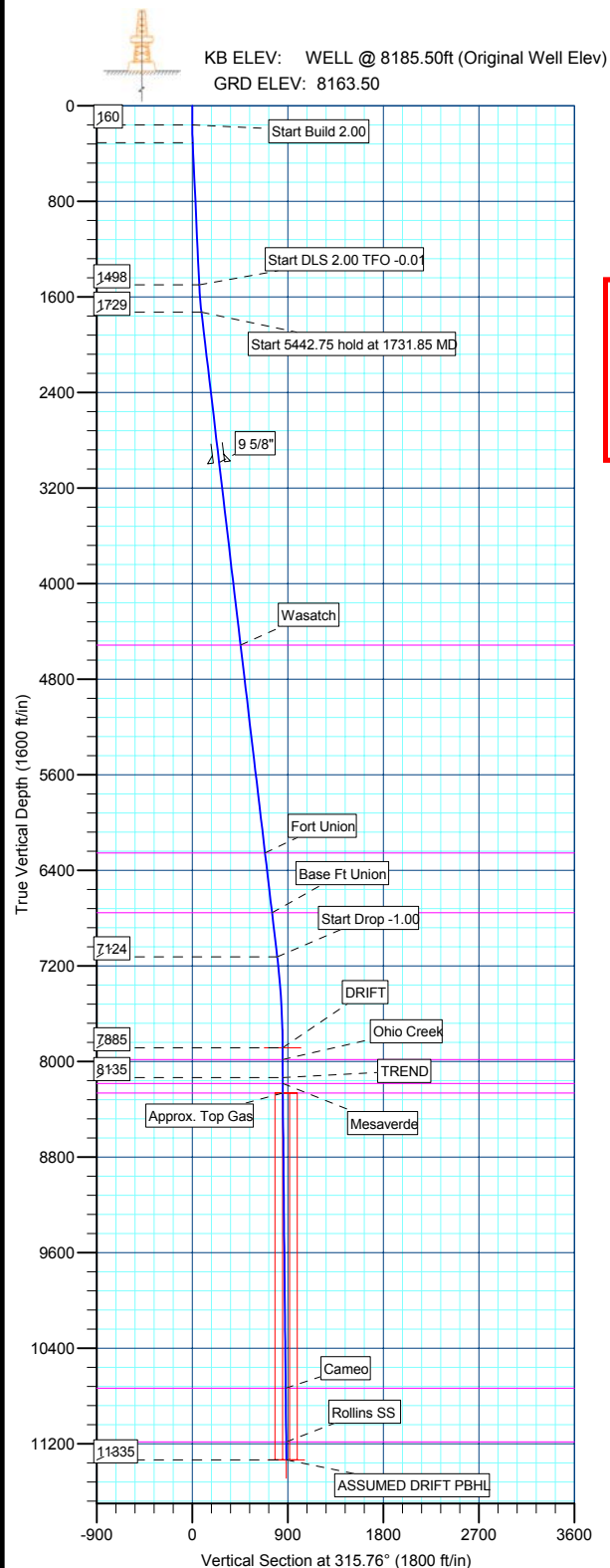
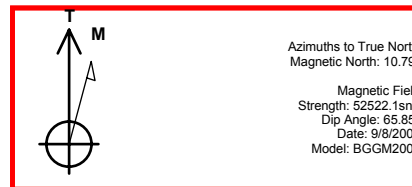
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_OM02D-G03-695	11335.00	676.91	-571.72	1639128.77	2268823.01	39° 33' 34.340 N	108° 5' 37.2400 W	Rectangle (Sides: L100.00 W200.00)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	160.00	0.00	0.00	160.00	0.00	0.00	0.00	0.00	0.00	
3	310.00	3.00	325.16	309.93	3.22	-2.24	2.00	325.16	3.87	
4	1500.00	3.00	325.16	1498.30	54.34	-37.82	2.00	0.00	65.32	
5	1731.85	7.64	325.16	1729.09	71.97	-50.10	2.00	-0.01	86.51	
6	7174.60	7.64	325.16	7123.56	665.61	-463.35	0.00	0.00	800.13	
7	7938.30	0.00	0.00	7885.00	707.32	-492.39	1.00	180.00	850.27	
8	8188.30	2.50	240.00	8134.92	704.60	-497.11	1.00	240.00	851.61	
9	11391.43	2.50	240.00	11335.00	634.74	-618.11	0.00	0.00	885.98	PBHL_OM02D-G03-695

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4515.00	4542.69	Wasatch
6255.00	6298.26	Fort Union
6755.00	6802.74	Base Ft Union
7985.00	8038.30	Ohio Creek
8185.00	8238.42	Mesaverde
8265.00	8318.50	Approx. Top Gas
10735.00	10790.85	Cameo
11185.00	11241.28	Rollins SS



Plan: PLAN #1 (GRANLEE OM02D/OM02D)

Created By: Robert H. Scott



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site:</b>	OM G03 696 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM02D		
<b>Design:</b>	PLAN #1		

<b>Project</b>	GARFIELD COUNTY, COLORADO, COLORADO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site	OM G03 696 PAD, SECTION 3-T6S-R96W				
Site Position:		Northing:	1,638,395.15ft	Latitude:	39° 33' 27.230 N
From:	Lat/Long	Easting:	2,269,311.35ft	Longitude:	108° 5' 30.7400 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	-1.63 °

Well	GRANLEE OM02D					
Well Position	+N/-S	42.48 ft	Northing:	1,638,435.83 ft	Latitude:	39° 33' 27.650 N
	+E/-W	62.66 ft	Easting:	2,269,375.19 ft	Longitude:	108° 5' 29.9400 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,163.50 ft

<b>Wellbore</b>	OM02D				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2007	9/8/2008	10.79	65.85	52,522

<b>Design</b>	PLAN #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	315.76	

<b>Plan Sections</b>										
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160.00	0.00	0.00	160.00	0.00	0.00	0.00	0.00	0.00	0.00	
310.00	3.00	325.16	309.93	3.22	-2.24	2.00	2.00	0.00	325.16	
1,500.00	3.00	325.16	1,498.30	54.34	-37.82	0.00	0.00	0.00	0.00	
1,731.85	7.64	325.16	1,729.09	71.97	-50.10	2.00	2.00	0.00	-0.01	
7,174.60	7.64	325.16	7,123.56	665.61	-463.35	0.00	0.00	0.00	0.00	
7,938.30	0.00	0.00	7,885.00	707.32	-492.39	1.00	-1.00	0.00	180.00	
8,188.30	2.50	240.00	8,134.92	704.60	-497.11	1.00	1.00	0.00	240.00	
11,391.43	2.50	240.00	11,335.00	634.74	-618.11	0.00	0.00	0.00	0.00	PBHL_OM02D-G03



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site:</b>	OM G03 696 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM02D		
<b>Design:</b>	PLAN #1		

## 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)
160.00	0.00	0.00	160.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
200.00	0.80	325.16	200.00	0.23	-0.16	0.28	2.00	2.00	0.00
300.00	2.80	325.16	299.94	2.81	-1.95	3.37	2.00	2.00	0.00
310.00	3.00	325.16	309.93	3.22	-2.24	3.87	2.00	2.00	0.00
<b>Start 1190.00 hold at 310.00 MD</b>									
400.00	3.00	325.16	399.81	7.09	-4.93	8.52	0.00	0.00	0.00
500.00	3.00	325.16	499.67	11.38	-7.92	13.68	0.00	0.00	0.00
600.00	3.00	325.16	599.53	15.68	-10.91	18.85	0.00	0.00	0.00
700.00	3.00	325.16	699.40	19.97	-13.90	24.01	0.00	0.00	0.00
800.00	3.00	325.16	799.26	24.27	-16.89	29.17	0.00	0.00	0.00
900.00	3.00	325.16	899.12	28.57	-19.88	34.34	0.00	0.00	0.00
1,000.00	3.00	325.16	998.99	32.86	-22.87	39.50	0.00	0.00	0.00
1,100.00	3.00	325.16	1,098.85	37.16	-25.86	44.66	0.00	0.00	0.00
1,200.00	3.00	325.16	1,198.71	41.45	-28.85	49.83	0.00	0.00	0.00
1,300.00	3.00	325.16	1,298.57	45.75	-31.84	54.99	0.00	0.00	0.00
1,400.00	3.00	325.16	1,398.44	50.04	-34.83	60.15	0.00	0.00	0.00
1,500.00	3.00	325.16	1,498.30	54.34	-37.82	65.32	0.00	0.00	0.00
<b>Start DLS 2.00 TFO -0.01</b>									
1,600.00	5.00	325.16	1,598.05	60.06	-41.81	72.20	2.00	2.00	0.00
1,700.00	7.00	325.16	1,697.50	68.64	-47.78	82.51	2.00	2.00	0.00
1,731.85	7.64	325.16	1,729.09	71.97	-50.10	86.51	2.00	2.00	0.00
<b>Start 5442.75 hold at 1731.85 MD</b>									
1,800.00	7.64	325.16	1,796.63	79.40	-55.27	95.45	0.00	0.00	0.00
1,900.00	7.64	325.16	1,895.75	90.31	-62.86	108.56	0.00	0.00	0.00
2,000.00	7.64	325.16	1,994.86	101.22	-70.46	121.67	0.00	0.00	0.00
2,100.00	7.64	325.16	2,093.97	112.13	-78.05	134.78	0.00	0.00	0.00
2,200.00	7.64	325.16	2,193.09	123.03	-85.64	147.89	0.00	0.00	0.00
2,300.00	7.64	325.16	2,292.20	133.94	-93.24	161.01	0.00	0.00	0.00
2,400.00	7.64	325.16	2,391.31	144.85	-100.83	174.12	0.00	0.00	0.00
2,500.00	7.64	325.16	2,490.43	155.75	-108.42	187.23	0.00	0.00	0.00
2,600.00	7.64	325.16	2,589.54	166.66	-116.01	200.34	0.00	0.00	0.00
2,700.00	7.64	325.16	2,688.65	177.57	-123.61	213.45	0.00	0.00	0.00
2,800.00	7.64	325.16	2,787.76	188.47	-131.20	226.56	0.00	0.00	0.00
2,900.00	7.64	325.16	2,886.88	199.38	-138.79	239.67	0.00	0.00	0.00
3,000.00	7.64	325.16	2,985.99	210.29	-146.39	252.78	0.00	0.00	0.00
<b>9 5/8"</b>									
3,100.00	7.64	325.16	3,085.10	221.20	-153.98	265.90	0.00	0.00	0.00
3,200.00	7.64	325.16	3,184.22	232.10	-161.57	279.01	0.00	0.00	0.00
3,300.00	7.64	325.16	3,283.33	243.01	-169.16	292.12	0.00	0.00	0.00
3,400.00	7.64	325.16	3,382.44	253.92	-176.76	305.23	0.00	0.00	0.00
3,500.00	7.64	325.16	3,481.56	264.82	-184.35	318.34	0.00	0.00	0.00
3,600.00	7.64	325.16	3,580.67	275.73	-191.94	331.45	0.00	0.00	0.00
3,700.00	7.64	325.16	3,679.78	286.64	-199.53	344.56	0.00	0.00	0.00
3,800.00	7.64	325.16	3,778.89	297.55	-207.13	357.67	0.00	0.00	0.00
3,900.00	7.64	325.16	3,878.01	308.45	-214.72	370.79	0.00	0.00	0.00
4,000.00	7.64	325.16	3,977.12	319.36	-222.31	383.90	0.00	0.00	0.00
4,100.00	7.64	325.16	4,076.23	330.27	-229.91	397.01	0.00	0.00	0.00
4,200.00	7.64	325.16	4,175.35	341.17	-237.50	410.12	0.00	0.00	0.00
4,300.00	7.64	325.16	4,274.46	352.08	-245.09	423.23	0.00	0.00	0.00
4,400.00	7.64	325.16	4,373.57	362.99	-252.68	436.34	0.00	0.00	0.00
4,500.00	7.64	325.16	4,472.69	373.89	-260.28	449.45	0.00	0.00	0.00
4,542.69	7.64	325.16	4,515.00	378.55	-263.52	455.05	0.00	0.00	0.00



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<b>Site:</b>	OM G03 696 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM02D		
<b>Design:</b>	PLAN #1		

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)
<b>Wasatch</b>									
4,600.00	7.64	325.16	4,571.80	384.80	-267.87	462.56	0.00	0.00	0.00
4,700.00	7.64	325.16	4,670.91	395.71	-275.46	475.68	0.00	0.00	0.00
4,800.00	7.64	325.16	4,770.02	406.62	-283.06	488.79	0.00	0.00	0.00
4,900.00	7.64	325.16	4,869.14	417.52	-290.65	501.90	0.00	0.00	0.00
5,000.00	7.64	325.16	4,968.25	428.43	-298.24	515.01	0.00	0.00	0.00
5,100.00	7.64	325.16	5,067.36	439.34	-305.83	528.12	0.00	0.00	0.00
5,200.00	7.64	325.16	5,166.48	450.24	-313.43	541.23	0.00	0.00	0.00
5,300.00	7.64	325.16	5,265.59	461.15	-321.02	554.34	0.00	0.00	0.00
5,400.00	7.64	325.16	5,364.70	472.06	-328.61	567.46	0.00	0.00	0.00
5,500.00	7.64	325.16	5,463.82	482.96	-336.21	580.57	0.00	0.00	0.00
5,600.00	7.64	325.16	5,562.93	493.87	-343.80	593.68	0.00	0.00	0.00
5,700.00	7.64	325.16	5,662.04	504.78	-351.39	606.79	0.00	0.00	0.00
5,800.00	7.64	325.16	5,761.15	515.69	-358.98	619.90	0.00	0.00	0.00
5,900.00	7.64	325.16	5,860.27	526.59	-366.58	633.01	0.00	0.00	0.00
6,000.00	7.64	325.16	5,959.38	537.50	-374.17	646.12	0.00	0.00	0.00
6,100.00	7.64	325.16	6,058.49	548.41	-381.76	659.23	0.00	0.00	0.00
6,200.00	7.64	325.16	6,157.61	559.31	-389.35	672.35	0.00	0.00	0.00
6,298.26	7.64	325.16	6,255.00	570.03	-396.82	685.23	0.00	0.00	0.00
<b>Fort Union</b>									
6,300.00	7.64	325.16	6,256.72	570.22	-396.95	685.46	0.00	0.00	0.00
6,400.00	7.64	325.16	6,355.83	581.13	-404.54	698.57	0.00	0.00	0.00
6,500.00	7.64	325.16	6,454.95	592.03	-412.13	711.68	0.00	0.00	0.00
6,600.00	7.64	325.16	6,554.06	602.94	-419.73	724.79	0.00	0.00	0.00
6,700.00	7.64	325.16	6,653.17	613.85	-427.32	737.90	0.00	0.00	0.00
6,800.00	7.64	325.16	6,752.28	624.76	-434.91	751.01	0.00	0.00	0.00
6,802.74	7.64	325.16	6,755.00	625.05	-435.12	751.37	0.00	0.00	0.00
<b>Base Ft Union</b>									
6,900.00	7.64	325.16	6,851.40	635.66	-442.50	764.12	0.00	0.00	0.00
7,000.00	7.64	325.16	6,950.51	646.57	-450.10	777.24	0.00	0.00	0.00
7,100.00	7.64	325.16	7,049.62	657.48	-457.69	790.35	0.00	0.00	0.00
7,174.60	7.64	325.16	7,123.56	665.61	-463.35	800.13	0.00	0.00	0.00
<b>Start Drop -1.00</b>									
7,200.00	7.38	325.16	7,148.74	668.34	-465.25	803.40	1.00	-1.00	0.00
7,300.00	6.38	325.16	7,248.02	678.17	-472.10	815.23	1.00	-1.00	0.00
7,400.00	5.38	325.16	7,347.49	686.59	-477.95	825.34	1.00	-1.00	0.00
7,500.00	4.38	325.16	7,447.13	693.57	-482.82	833.74	1.00	-1.00	0.00
7,600.00	3.38	325.16	7,546.90	699.13	-486.69	840.42	1.00	-1.00	0.00
7,700.00	2.38	325.16	7,646.77	703.26	-489.56	845.38	1.00	-1.00	0.00
7,800.00	1.38	325.16	7,746.72	705.95	-491.44	848.62	1.00	-1.00	0.00
7,900.00	0.38	325.16	7,846.70	707.22	-492.32	850.14	1.00	-1.00	0.00
7,938.30	0.00	0.00	7,885.00	707.32	-492.39	850.27	1.00	-1.00	0.00
<b>DRIFT - Plan @ 7885.00 (GRANLEE OM02D OM02D PLAN #1)</b>									
8,000.00	0.62	240.00	7,946.70	707.16	-492.68	850.35	1.00	1.00	0.00
8,038.30	1.00	240.00	7,985.00	706.89	-493.15	850.48	1.00	1.00	0.00
<b>Ohio Creek</b>									
8,100.00	1.62	240.00	8,046.68	706.18	-494.37	850.83	1.00	1.00	0.00
8,188.30	2.50	240.00	8,134.92	704.60	-497.11	851.61	1.00	1.00	0.00
<b>TREND</b>									
8,200.00	2.50	240.00	8,146.61	704.34	-497.55	851.73	0.00	0.00	0.00
8,238.42	2.50	240.00	8,185.00	703.50	-499.01	852.15	0.00	0.00	0.00
<b>Mesaverde</b>									
8,300.00	2.50	240.00	8,246.52	702.16	-501.33	852.81	0.00	0.00	0.00



Berry Petroleum Company

## Weatherford International Ltd.

## Planning Report



Weatherford

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site:</b>	OM G03 696 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM02D		
<b>Design:</b>	PLAN #1		

## 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)
8,318.50	2.50	240.00	8,265.00	701.76	-502.03	853.01	0.00	0.00	0.00
<b>Approx. Top Gas</b>									
8,400.00	2.50	240.00	8,346.42	699.98	-505.11	853.88	0.00	0.00	0.00
8,500.00	2.50	240.00	8,446.33	697.80	-508.89	854.95	0.00	0.00	0.00
8,600.00	2.50	240.00	8,546.23	695.62	-512.67	856.03	0.00	0.00	0.00
8,700.00	2.50	240.00	8,646.14	693.44	-516.44	857.10	0.00	0.00	0.00
8,800.00	2.50	240.00	8,746.04	691.26	-520.22	858.17	0.00	0.00	0.00
8,900.00	2.50	240.00	8,845.95	689.07	-524.00	859.25	0.00	0.00	0.00
9,000.00	2.50	240.00	8,945.85	686.89	-527.78	860.32	0.00	0.00	0.00
9,100.00	2.50	240.00	9,045.76	684.71	-531.55	861.39	0.00	0.00	0.00
9,200.00	2.50	240.00	9,145.66	682.53	-535.33	862.46	0.00	0.00	0.00
9,300.00	2.50	240.00	9,245.57	680.35	-539.11	863.54	0.00	0.00	0.00
9,400.00	2.50	240.00	9,345.47	678.17	-542.89	864.61	0.00	0.00	0.00
9,500.00	2.50	240.00	9,445.38	675.99	-546.66	865.68	0.00	0.00	0.00
9,600.00	2.50	240.00	9,545.28	673.81	-550.44	866.76	0.00	0.00	0.00
9,700.00	2.50	240.00	9,645.18	671.63	-554.22	867.83	0.00	0.00	0.00
9,800.00	2.50	240.00	9,745.09	669.45	-558.00	868.90	0.00	0.00	0.00
9,900.00	2.50	240.00	9,844.99	667.27	-561.77	869.97	0.00	0.00	0.00
10,000.00	2.50	240.00	9,944.90	665.08	-565.55	871.05	0.00	0.00	0.00
10,100.00	2.50	240.00	10,044.80	662.90	-569.33	872.12	0.00	0.00	0.00
10,200.00	2.50	240.00	10,144.71	660.72	-573.11	873.19	0.00	0.00	0.00
10,300.00	2.50	240.00	10,244.61	658.54	-576.88	874.27	0.00	0.00	0.00
10,400.00	2.50	240.00	10,344.52	656.36	-580.66	875.34	0.00	0.00	0.00
10,500.00	2.50	240.00	10,444.42	654.18	-584.44	876.41	0.00	0.00	0.00
10,600.00	2.50	240.00	10,544.33	652.00	-588.22	877.49	0.00	0.00	0.00
10,700.00	2.50	240.00	10,644.23	649.82	-591.99	878.56	0.00	0.00	0.00
10,790.85	2.50	240.00	10,735.00	647.84	-595.43	879.53	0.00	0.00	0.00
<b>Cameo</b>									
10,800.00	2.50	240.00	10,744.14	647.64	-595.77	879.63	0.00	0.00	0.00
10,900.00	2.50	240.00	10,844.04	645.46	-599.55	880.70	0.00	0.00	0.00
11,000.00	2.50	240.00	10,943.95	643.27	-603.33	881.78	0.00	0.00	0.00
11,100.00	2.50	240.00	11,043.85	641.09	-607.10	882.85	0.00	0.00	0.00
11,200.00	2.50	240.00	11,143.76	638.91	-610.88	883.92	0.00	0.00	0.00
11,241.28	2.50	240.00	11,185.00	638.01	-612.44	884.37	0.00	0.00	0.00
<b>Rollins SS</b>									
11,300.00	2.50	240.00	11,243.66	636.73	-614.66	885.00	0.00	0.00	0.00
11,388.75	2.50	240.00	11,332.33	634.80	-618.01	885.95	0.00	0.00	0.00
<b>PBHL_OM02D-G03-695</b>									
11,391.43	2.50	240.00	11,335.00	634.74	-618.11	885.98	0.00	0.00	0.00
<b>ASSUMED DRIFT PBHL</b>									

## Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,000.00	2,985.99	9 5/8"	9.62	12.25



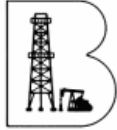
<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site:</b>	OM G03 696 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM02D		
<b>Design:</b>	PLAN #1		

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,542.69	4,515.00	Wasatch		0.00	
6,298.26	6,255.00	Fort Union		0.00	
6,802.74	6,755.00	Base Ft Union		0.00	
8,038.30	7,985.00	Ohio Creek		0.00	
8,238.42	8,185.00	Mesaverde		0.00	
8,318.50	8,265.00	Approx. Top Gas		0.00	
10,790.85	10,735.00	Cameo		0.00	
11,241.28	11,185.00	Rollins SS		0.00	

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
160.00	160.00	0.00	0.00	Start Build 2.00
310.00	309.93	3.22	-2.24	Start 1190.00 hold at 310.00 MD
1,500.00	1,498.30	54.34	-37.82	Start DLS 2.00 TFO -0.01
1,731.85	1,729.09	71.97	-50.10	Start 5442.75 hold at 1731.85 MD
7,174.60	7,123.56	665.61	-463.35	Start Drop -1.00
7,938.30	7,885.00	707.32	-492.39	DRIFT
8,188.30	8,134.92	704.60	-497.11	TREND
11,391.43	11,335.00	634.74	-618.11	ASSUMED DRIFT PBHL



Berry Petroleum Company

# **BERRY PETROLEUM COMPANY**

**GARFIELD COUNTY, COLORADO  
OM G03 696 PAD  
GRANLEE OM02D**

**OM02D  
PLAN #1**

## **Anticollision Report**

**08 September, 2008**



**Weatherford®**



<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #1
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria
<b>Interpolation Method:</b>	Stations
<b>Depth Range:</b>	0.00 to 20,000.00ft
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.00ft
<b>Warning Levels Evaluated at:</b>	2.00 Sigma
<b>Error Model:</b>	ISCWSA
<b>Scan Method:</b>	Closest Approach 3D
<b>Error Surface:</b>	Elliptical Conic

Survey Tool Program			Date	9/8/2008	
From (ft)	To (ft)	Survey (Wellbore)		Tool Name	Description
0.00	11,391.43	PLAN #1 (OM02D)		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						
OM G03 696 PAD						
GRANLEE OM02C - OM02C - PLAN #1	160.00	160.00	14.27	13.82	32.057	CC
GRANLEE OM02C - OM02C - PLAN #1	200.00	199.96	14.32	13.70	22.973	ES
GRANLEE OM02C - OM02C - PLAN #1	1,100.00	1,099.64	23.66	18.73	4.801	SF
GRANLEE OM07A - OM07A - PLAN #1	160.00	160.00	14.92	14.47	33.516	CC
GRANLEE OM07A - OM07A - PLAN #1	200.00	199.95	14.98	14.35	24.071	ES
GRANLEE OM07A - OM07A - PLAN #1	2,200.00	2,198.40	47.59	36.64	4.348	SF

Offset Design												OM G03 696 PAD - GRANLEE OM02C - OM02C - PLAN #1		Offset Site Error:		0.00 ft	
Survey Program: 0-MWD														Offset Well Error:		0.00 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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor					
0.00	0.00	0.00	0.00	0.00	0.00	55.43	8.09	11.75	14.27								
100.00	100.00	100.00	100.00	0.09	0.09	55.43	8.09	11.75	14.27	14.09	0.18	81.376					
160.00	160.00	160.00	160.00	0.22	0.22	55.43	8.09	11.75	14.27	13.82	0.45	32.057	CC				
200.00	200.00	199.96	199.96	0.31	0.31	90.29	8.35	11.64	14.32	13.70	0.62	22.973	ES				
310.00	309.93	309.85	309.78	0.57	0.57	90.56	11.69	10.20	15.05	13.93	1.12	13.423					
400.00	399.81	399.85	399.65	0.77	0.78	90.86	16.02	8.33	15.99	14.45	1.54	10.351					
500.00	499.67	499.84	499.51	1.01	1.01	91.16	20.82	6.26	17.04	15.01	2.02	8.426					
600.00	599.53	599.83	599.37	1.25	1.25	91.43	25.63	4.19	18.08	15.58	2.50	7.227					
700.00	699.40	699.83	699.23	1.49	1.49	91.67	30.43	2.11	19.13	16.15	2.98	6.411					
800.00	799.26	799.82	799.08	1.73	1.73	91.88	35.24	0.04	20.18	16.71	3.47	5.820					
900.00	899.12	899.82	898.94	1.98	1.98	92.07	40.04	-2.03	21.22	17.27	3.95	5.373					
1,000.00	998.99	999.81	998.80	2.22	2.22	92.24	44.85	-4.10	22.27	17.84	4.43	5.023					
1,100.00	1,098.85	1,099.64	1,098.38	2.46	2.47	88.25	51.23	-6.86	23.66	18.73	4.93	4.801	SF				
1,200.00	1,198.71	1,199.22	1,197.41	2.70	2.74	77.49	60.77	-10.97	26.36	20.93	5.43	4.855					
1,300.00	1,298.57	1,298.31	1,295.53	2.95	3.05	63.77	73.40	-16.42	31.81	25.90	5.91	5.382					
1,400.00	1,398.44	1,397.42	1,393.29	3.19	3.38	51.87	88.40	-22.89	40.50	34.13	6.36	6.363					
1,500.00	1,498.30	1,496.74	1,491.23	3.43	3.72	44.24	103.58	-29.44	50.45	43.63	6.81	7.403					
1,600.00	1,598.05	1,596.24	1,589.34	3.69	4.06	40.12	118.79	-36.00	59.65	52.37	7.28	8.190					
1,700.00	1,697.50	1,696.00	1,687.71	3.96	4.42	38.94	134.04	-42.58	66.33	58.54	7.79	8.515					
1,731.85	1,729.09	1,727.81	1,719.07	4.06	4.53	39.00	138.91	-44.68	67.90	59.94	7.96	8.530					
1,800.00	1,796.63	1,795.90	1,786.20	4.26	4.77	39.36	149.31	-49.17	70.95	62.61	8.33	8.512					

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

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM02C - OM02C - PLAN #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 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	
1,900.00	1,895.75	1,895.79	1,884.71	4.57	5.13	39.84	164.59	-55.76	75.42	66.53	8.89	8.484	
2,000.00	1,994.86	1,995.69	1,983.21	4.88	5.50	40.26	179.86	-62.34	79.91	70.46	9.45	8.456	
2,100.00	2,093.97	2,095.59	2,081.72	5.19	5.86	40.63	195.13	-68.93	84.40	74.38	10.02	8.427	
2,200.00	2,193.09	2,195.49	2,180.22	5.50	6.23	40.97	210.40	-75.52	88.89	78.30	10.58	8.399	
2,300.00	2,292.20	2,295.38	2,278.72	5.82	6.60	41.28	225.67	-82.11	93.38	82.23	11.15	8.372	
2,400.00	2,391.31	2,395.28	2,377.23	6.14	6.97	41.55	240.94	-88.70	97.88	86.15	11.73	8.345	
2,500.00	2,490.43	2,495.18	2,475.73	6.46	7.34	41.81	256.21	-95.28	102.38	90.07	12.31	8.320	
2,600.00	2,589.54	2,595.08	2,574.23	6.78	7.71	42.04	271.49	-101.87	106.88	93.99	12.88	8.295	
2,700.00	2,688.65	2,694.98	2,672.74	7.10	8.08	42.25	286.76	-108.46	111.38	97.91	13.46	8.272	
2,800.00	2,787.76	2,794.87	2,771.24	7.42	8.45	42.45	302.03	-115.05	115.88	101.84	14.05	8.250	
2,900.00	2,886.88	2,894.77	2,869.74	7.74	8.83	42.63	317.30	-121.64	120.39	105.76	14.63	8.229	
3,000.00	2,985.99	2,994.67	2,968.25	8.06	9.20	42.80	332.57	-128.22	124.89	109.68	15.21	8.209	
3,100.00	3,085.10	3,094.57	3,066.75	8.39	9.57	42.96	347.84	-134.81	129.40	113.60	15.80	8.189	
3,200.00	3,184.22	3,194.46	3,165.25	8.71	9.95	43.10	363.12	-141.40	133.91	117.52	16.39	8.171	
3,300.00	3,283.33	3,294.36	3,263.76	9.04	10.32	43.24	378.39	-147.99	138.41	121.44	16.98	8.154	
3,400.00	3,382.44	3,394.26	3,362.26	9.36	10.70	43.37	393.66	-154.58	142.92	125.36	17.56	8.137	
3,500.00	3,481.56	3,494.16	3,460.76	9.69	11.07	43.49	408.93	-161.16	147.43	129.28	18.15	8.121	
3,600.00	3,580.67	3,594.06	3,559.27	10.02	11.45	43.60	424.20	-167.75	151.94	133.20	18.74	8.106	
3,700.00	3,679.78	3,693.95	3,657.77	10.34	11.82	43.71	439.47	-174.34	156.45	137.12	19.34	8.091	
3,800.00	3,778.89	3,793.85	3,756.28	10.67	12.20	43.81	454.75	-180.93	160.97	141.04	19.93	8.077	
3,900.00	3,878.01	3,893.75	3,854.78	11.00	12.57	43.90	470.02	-187.52	165.48	144.96	20.52	8.064	
4,000.00	3,977.12	3,993.65	3,953.28	11.33	12.95	43.99	485.29	-194.10	169.99	148.88	21.11	8.052	
4,100.00	4,076.23	4,093.54	4,051.79	11.65	13.33	44.08	500.56	-200.69	174.50	152.80	21.71	8.039	
4,200.00	4,175.35	4,193.44	4,150.29	11.98	13.70	44.16	515.83	-207.28	179.02	156.72	22.30	8.028	
4,300.00	4,274.46	4,293.34	4,248.79	12.31	14.08	44.24	531.10	-213.87	183.53	160.64	22.89	8.017	
4,400.00	4,373.57	4,393.24	4,347.30	12.64	14.46	44.31	546.38	-220.46	188.04	164.56	23.49	8.006	
4,500.00	4,472.69	4,493.14	4,445.80	12.97	14.83	44.38	561.65	-227.04	192.56	168.47	24.08	7.996	
4,600.00	4,571.80	4,593.03	4,544.30	13.30	15.21	44.45	576.92	-233.63	197.07	172.39	24.68	7.986	
4,700.00	4,670.91	4,692.93	4,642.81	13.63	15.59	44.51	592.19	-240.22	201.59	176.31	25.27	7.976	
4,800.00	4,770.02	4,792.83	4,741.31	13.95	15.97	44.57	607.46	-246.81	206.10	180.23	25.87	7.967	
4,900.00	4,869.14	4,892.73	4,839.81	14.28	16.34	44.63	622.73	-253.40	210.62	184.15	26.46	7.958	
5,000.00	4,968.25	4,992.63	4,938.32	14.61	16.72	44.69	638.00	-259.98	215.13	188.07	27.06	7.950	
5,100.00	5,067.36	5,092.52	5,036.82	14.94	17.10	44.74	653.28	-266.57	219.65	191.99	27.66	7.942	
5,200.00	5,166.48	5,192.42	5,135.32	15.27	17.47	44.79	668.55	-273.16	224.16	195.91	28.25	7.934	
5,300.00	5,265.59	5,292.32	5,233.83	15.60	17.85	44.84	683.82	-279.75	228.68	199.83	28.85	7.926	
5,400.00	5,364.70	5,392.22	5,332.33	15.93	18.23	44.89	699.09	-286.34	233.19	203.75	29.45	7.919	
5,500.00	5,463.82	5,492.11	5,430.84	16.26	18.61	44.94	714.36	-292.92	237.71	207.67	30.05	7.912	
5,600.00	5,562.93	5,592.01	5,529.34	16.59	18.98	44.98	729.63	-299.51	242.23	211.58	30.64	7.905	
5,700.00	5,662.04	5,691.91	5,627.84	16.92	19.36	45.02	744.91	-306.10	246.74	215.50	31.24	7.898	
5,800.00	5,761.15	5,791.81	5,726.35	17.25	19.74	45.06	760.18	-312.69	251.26	219.42	31.84	7.892	
5,900.00	5,860.27	5,891.71	5,824.85	17.58	20.12	45.10	775.45	-319.28	255.78	223.34	32.44	7.886	
6,000.00	5,959.38	5,991.60	5,923.35	17.91	20.50	45.14	790.72	-325.86	260.29	227.26	33.03	7.880	
6,100.00	6,058.49	6,091.50	6,021.86	18.24	20.87	45.18	805.99	-332.45	264.81	231.18	33.63	7.874	
6,200.00	6,157.61	6,191.40	6,120.36	18.57	21.25	45.21	821.26	-339.04	269.33	235.10	34.23	7.868	
6,300.00	6,256.72	6,291.30	6,218.86	18.90	21.63	45.25	836.54	-345.63	273.84	239.02	34.83	7.863	
6,400.00	6,355.83	6,391.19	6,317.37	19.23	22.01	45.28	851.81	-352.22	278.36	242.93	35.43	7.857	
6,500.00	6,454.95	6,491.09	6,415.87	19.56	22.39	45.31	867.08	-358.80	282.88	246.85	36.03	7.852	
6,600.00	6,554.06	6,590.99	6,514.37	19.89	22.76	45.34	882.35	-365.39	287.40	250.77	36.62	7.847	
6,700.00	6,653.17	6,690.89	6,612.88	20.22	23.14	45.37	897.62	-371.98	291.91	254.69	37.22	7.842	
6,800.00	6,752.28	6,790.79	6,711.38	20.55	23.52	45.40	912.89	-378.57	296.43	258.61	37.82	7.838	
6,900.00	6,851.40	6,890.68	6,809.88	20.88	23.90	45.43	928.17	-385.16	300.95	262.53	38.42	7.833	
7,000.00	6,950.51	6,990.58	6,908.39	21.21	24.28	45.46	943.44	-391.74	305.47	266.45	39.02	7.829	

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

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM02C - OM02C - PLAN #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 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	
7,100.00	7,049.62	7,093.13	7,009.56	21.54	24.64	45.52	958.84	-398.39	309.74	270.13	39.61	7.820	
7,174.60	7,123.56	7,171.19	7,086.74	21.79	24.86	45.68	969.56	-403.01	312.05	272.02	40.04	7.794	
7,200.00	7,148.74	7,197.78	7,113.06	21.86	24.93	45.75	972.99	-404.49	312.69	272.52	40.18	7.783	
7,300.00	7,248.02	7,302.47	7,216.88	22.11	25.20	46.02	985.40	-409.85	315.02	274.36	40.66	7.748	
7,400.00	7,347.49	7,407.20	7,320.95	22.34	25.46	46.24	996.08	-414.45	317.05	275.95	41.11	7.713	
7,500.00	7,447.13	7,511.95	7,425.25	22.56	25.69	46.41	1,005.01	-418.30	318.80	277.28	41.52	7.678	
7,600.00	7,546.90	7,616.72	7,529.73	22.75	25.90	46.54	1,012.19	-421.40	320.25	278.35	41.90	7.643	
7,700.00	7,646.77	7,721.51	7,634.35	22.93	26.09	46.63	1,017.61	-423.74	321.41	279.16	42.25	7.608	
7,800.00	7,746.72	7,826.32	7,739.09	23.10	26.25	46.67	1,021.28	-425.32	322.27	279.71	42.56	7.573	
7,900.00	7,846.70	7,931.15	7,843.89	23.25	26.40	46.67	1,023.18	-426.14	322.83	280.00	42.83	7.537	
7,938.30	7,885.00	7,971.29	7,884.03	23.30	26.45	11.82	1,023.45	-426.26	322.97	283.97	39.00	8.282	
8,000.00	7,946.70	8,035.59	7,948.33	23.38	26.53	131.83	1,023.40	-426.42	323.11	280.01	43.10	7.497	
8,100.00	8,046.68	8,139.50	8,052.23	23.53	26.66	131.87	1,022.54	-427.91	323.31	279.90	43.40	7.449	
8,188.30	8,134.92	8,231.26	8,143.93	23.67	26.78	131.90	1,020.99	-430.59	323.44	279.75	43.68	7.404	
8,200.00	8,146.61	8,243.37	8,156.03	23.68	26.79	131.90	1,020.73	-431.04	323.44	279.72	43.73	7.397	
8,300.00	8,246.52	8,343.37	8,255.94	23.84	26.92	131.90	1,018.55	-434.82	323.44	279.35	44.09	7.336	
8,400.00	8,346.42	8,443.37	8,355.84	23.99	27.04	131.90	1,016.37	-438.59	323.44	278.99	44.46	7.275	
8,500.00	8,446.33	8,543.37	8,455.75	24.15	27.17	131.90	1,014.19	-442.37	323.44	278.62	44.83	7.215	
8,600.00	8,546.23	8,643.37	8,555.65	24.31	27.30	131.90	1,012.01	-446.15	323.44	278.25	45.20	7.156	
8,700.00	8,646.14	8,743.37	8,655.56	24.47	27.42	131.90	1,009.83	-449.93	323.44	277.87	45.57	7.098	
8,800.00	8,746.04	8,843.37	8,755.46	24.63	27.56	131.90	1,007.65	-453.70	323.44	277.50	45.94	7.040	
8,900.00	8,845.95	8,943.37	8,855.37	24.79	27.69	131.90	1,005.46	-457.48	323.44	277.12	46.32	6.983	
9,000.00	8,945.85	9,043.37	8,955.27	24.95	27.82	131.90	1,003.28	-461.26	323.44	276.75	46.70	6.926	
9,100.00	9,045.76	9,143.37	9,055.18	25.11	27.96	131.90	1,001.10	-465.04	323.44	276.37	47.08	6.871	
9,200.00	9,145.66	9,243.37	9,155.08	25.28	28.09	131.90	998.92	-468.81	323.44	275.99	47.46	6.816	
9,300.00	9,245.57	9,343.37	9,254.99	25.44	28.23	131.90	996.74	-472.59	323.44	275.60	47.84	6.761	
9,400.00	9,345.47	9,443.37	9,354.89	25.61	28.37	131.90	994.56	-476.37	323.44	275.22	48.22	6.707	
9,500.00	9,445.38	9,543.37	9,454.80	25.78	28.51	131.90	992.38	-480.15	323.44	274.84	48.61	6.654	
9,600.00	9,545.28	9,643.37	9,554.70	25.95	28.65	131.90	990.20	-483.92	323.44	274.45	48.99	6.602	
9,700.00	9,645.18	9,743.37	9,654.61	26.12	28.79	131.90	988.02	-487.70	323.44	274.06	49.38	6.550	
9,800.00	9,745.09	9,843.37	9,754.51	26.29	28.94	131.90	985.84	-491.48	323.44	273.67	49.77	6.499	
9,900.00	9,844.99	9,943.37	9,854.42	26.46	29.08	131.90	983.65	-495.26	323.44	273.28	50.16	6.448	
10,000.00	9,944.90	10,043.37	9,954.32	26.63	29.23	131.90	981.47	-499.03	323.44	272.89	50.55	6.398	
10,100.00	10,044.80	10,143.37	10,054.23	26.81	29.37	131.90	979.29	-502.81	323.44	272.50	50.95	6.349	
10,200.00	10,144.71	10,243.37	10,154.13	26.98	29.52	131.90	977.11	-506.59	323.44	272.10	51.34	6.300	
10,300.00	10,244.61	10,343.37	10,254.04	27.16	29.67	131.90	974.93	-510.37	323.44	271.71	51.74	6.252	
10,400.00	10,344.52	10,443.37	10,353.94	27.34	29.82	131.90	972.75	-514.14	323.44	271.31	52.14	6.204	
10,500.00	10,444.42	10,543.37	10,453.85	27.51	29.97	131.90	970.57	-517.92	323.44	270.91	52.53	6.157	
10,600.00	10,544.33	10,643.37	10,553.75	27.69	30.13	131.90	968.39	-521.70	323.44	270.51	52.93	6.111	
10,700.00	10,644.23	10,743.37	10,653.65	27.87	30.28	131.90	966.21	-525.48	323.44	270.11	53.33	6.065	
10,800.00	10,744.14	10,843.37	10,753.56	28.05	30.43	131.90	964.03	-529.25	323.44	269.71	53.73	6.019	
10,900.00	10,844.04	10,943.37	10,853.46	28.23	30.59	131.90	961.85	-533.03	323.44	269.31	54.14	5.975	
11,000.00	10,943.95	11,043.37	10,953.37	28.41	30.75	131.90	959.66	-536.81	323.44	268.90	54.54	5.930	
11,100.00	11,043.85	11,143.37	11,053.27	28.60	30.90	131.90	957.48	-540.59	323.44	268.50	54.94	5.887	
11,200.00	11,143.76	11,243.37	11,153.18	28.78	31.06	131.90	955.30	-544.37	323.44	268.09	55.35	5.844	
11,300.00	11,243.66	11,343.37	11,253.08	28.96	31.22	131.90	953.12	-548.14	323.44	267.69	55.76	5.801	
11,391.43	11,335.00	11,434.80	11,344.42	29.13	31.37	131.90	951.13	-551.60	323.44	267.31	56.13	5.763	

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM07A - OM07A - PLAN #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 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	
0.00	0.00	0.00	0.00	0.00	0.00	-122.85	-8.09	-12.53	14.92				
100.00	100.00	100.00	100.00	0.09	0.09	-122.85	-8.09	-12.53	14.92	14.74	0.18	85.079	
160.00	160.00	160.00	160.00	0.22	0.22	-122.85	-8.09	-12.53	14.92	14.47	0.45	33.516 CC	
200.00	200.00	199.95	199.95	0.31	0.31	-88.04	-7.90	-12.74	14.98	14.35	0.62	24.071 ES	
310.00	309.93	309.80	309.73	0.57	0.56	-88.47	-5.45	-15.42	15.78	14.66	1.12	14.126	
400.00	399.81	399.79	399.60	0.77	0.77	-88.96	-2.28	-18.90	16.82	15.28	1.54	10.921	
500.00	499.67	499.78	499.45	1.01	1.01	-89.44	1.25	-22.77	17.97	15.96	2.02	8.913	
600.00	599.53	599.78	599.31	1.25	1.25	-89.86	4.78	-26.63	19.13	16.63	2.50	7.663	
700.00	699.40	699.77	699.17	1.49	1.49	-90.23	8.31	-30.50	20.29	17.31	2.98	6.812	
800.00	799.26	799.76	799.02	1.73	1.73	-90.57	11.84	-34.36	21.44	17.98	3.46	6.196	
900.00	899.12	899.58	898.60	1.98	1.99	-86.71	16.51	-39.48	23.01	19.07	3.95	5.829	
1,000.00	998.99	999.52	998.20	2.22	2.25	-80.46	22.08	-45.59	25.15	20.72	4.43	5.672	
1,100.00	1,098.85	1,099.47	1,097.80	2.46	2.51	-75.25	27.66	-51.70	27.55	22.63	4.92	5.603	
1,200.00	1,198.71	1,199.41	1,197.40	2.70	2.78	-70.90	33.24	-57.81	30.13	24.73	5.39	5.586	
1,300.00	1,298.57	1,299.35	1,297.00	2.95	3.04	-67.25	38.81	-63.92	32.86	26.99	5.87	5.600	
1,400.00	1,398.44	1,399.29	1,396.59	3.19	3.31	-64.17	44.39	-70.03	35.70	29.36	6.34	5.631	
1,500.00	1,498.30	1,499.24	1,496.19	3.43	3.58	-61.55	49.97	-76.14	38.62	31.81	6.81	5.672	
1,600.00	1,598.05	1,599.21	1,595.82	3.69	3.85	-61.38	55.55	-82.25	40.76	33.45	7.30	5.580	
1,700.00	1,697.50	1,699.16	1,695.43	3.96	4.12	-65.49	61.13	-88.36	41.33	33.46	7.86	5.256	
1,731.85	1,729.09	1,730.97	1,727.13	4.06	4.20	-67.71	62.90	-90.31	41.27	33.21	8.06	5.123	
1,771.46	1,768.35	1,770.52	1,766.54	4.18	4.31	-70.76	65.11	-92.73	41.21	32.91	8.30	4.963	
1,800.00	1,796.63	1,799.01	1,794.94	4.26	4.38	-72.96	66.70	-94.47	41.24	32.76	8.48	4.861	
1,900.00	1,895.75	1,898.86	1,894.44	4.57	4.65	-80.57	72.27	-100.57	41.82	32.70	9.12	4.587	
2,000.00	1,994.86	1,998.70	1,993.95	4.88	4.92	-87.85	77.84	-106.68	43.12	33.37	9.75	4.424	
2,100.00	2,093.97	2,098.55	2,093.45	5.19	5.19	-94.61	83.41	-112.78	45.07	34.71	10.36	4.352	
2,200.00	2,193.09	2,198.40	2,192.95	5.50	5.46	-100.73	88.99	-118.89	47.59	36.64	10.95	4.348 SF	
2,300.00	2,292.20	2,298.24	2,292.46	5.82	5.73	-106.18	94.56	-124.99	50.59	39.08	11.51	4.395	
2,400.00	2,391.31	2,398.09	2,391.96	6.14	6.00	-110.98	100.13	-131.10	54.00	41.94	12.06	4.478	
2,500.00	2,490.43	2,497.93	2,491.46	6.46	6.27	-115.19	105.70	-137.20	57.75	45.16	12.59	4.587	
2,600.00	2,589.54	2,597.78	2,590.97	6.78	6.54	-118.87	111.27	-143.30	61.76	48.65	13.11	4.711	
2,700.00	2,688.65	2,697.63	2,690.47	7.10	6.81	-122.08	116.84	-149.41	66.00	52.38	13.62	4.846	
2,800.00	2,787.76	2,797.47	2,789.97	7.42	7.08	-124.91	122.42	-155.51	70.43	56.30	14.12	4.987	
2,900.00	2,886.88	2,897.32	2,889.48	7.74	7.34	-127.39	127.99	-161.62	75.00	60.38	14.62	5.129	
3,000.00	2,985.99	2,997.16	2,988.98	8.06	7.61	-129.59	133.56	-167.72	79.70	64.58	15.12	5.272	
3,100.00	3,085.10	3,097.01	3,088.48	8.39	7.88	-131.54	139.13	-173.83	84.50	68.89	15.61	5.412	
3,200.00	3,184.22	3,196.85	3,187.98	8.71	8.15	-133.27	144.70	-179.93	89.39	73.28	16.11	5.550	
3,300.00	3,283.33	3,296.70	3,287.49	9.04	8.42	-134.83	150.27	-186.04	94.35	77.75	16.60	5.685	
3,400.00	3,382.44	3,396.55	3,386.99	9.36	8.69	-136.23	155.85	-192.14	99.37	82.28	17.09	5.815	
3,500.00	3,481.56	3,496.39	3,486.49	9.69	8.96	-137.49	161.42	-198.25	104.45	86.87	17.58	5.941	
3,600.00	3,580.67	3,596.24	3,586.00	10.02	9.23	-138.64	166.99	-204.35	109.58	91.50	18.07	6.063	
3,700.00	3,679.78	3,696.08	3,685.50	10.34	9.50	-139.68	172.56	-210.45	114.74	96.18	18.56	6.181	
3,800.00	3,778.89	3,795.93	3,785.00	10.67	9.77	-140.64	178.13	-216.56	119.94	100.88	19.06	6.294	
3,900.00	3,878.01	3,895.77	3,884.51	11.00	10.04	-141.51	183.71	-222.66	125.17	105.62	19.55	6.403	
4,000.00	3,977.12	3,995.62	3,984.01	11.33	10.31	-142.32	189.28	-228.77	130.42	110.38	20.04	6.508	
4,100.00	4,076.23	4,095.47	4,083.51	11.65	10.58	-143.06	194.85	-234.87	135.70	115.17	20.53	6.609	
4,200.00	4,175.35	4,195.31	4,183.02	11.98	10.85	-143.74	200.42	-240.98	141.00	119.98	21.03	6.706	
4,300.00	4,274.46	4,295.16	4,282.52	12.31	11.12	-144.38	205.99	-247.08	146.32	124.80	21.52	6.799	
4,400.00	4,373.57	4,395.00	4,382.02	12.64	11.39	-144.97	211.56	-253.19	151.66	129.64	22.02	6.889	
4,500.00	4,472.69	4,494.85	4,481.52	12.97	11.66	-145.52	217.14	-259.29	157.01	134.50	22.51	6.975	
4,600.00	4,571.80	4,594.69	4,581.03	13.30	11.93	-146.04	222.71	-265.40	162.37	139.37	23.00	7.058	
4,700.00	4,670.91	4,694.54	4,680.53	13.63	12.20	-146.52	228.28	-271.50	167.75	144.25	23.50	7.139	
4,800.00	4,770.02	4,794.39	4,780.03	13.95	12.47	-146.97	233.85	-277.60	173.14	149.15	23.99	7.216	

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

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM07A - OM07A - PLAN #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 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	
4,900.00	4,869.14	4,894.23	4,879.54	14.28	12.74	-147.40	239.42	-283.71	178.54	154.05	24.49	7.290	
5,000.00	4,968.25	4,994.08	4,979.04	14.61	13.01	-147.80	244.99	-289.81	183.94	158.96	24.99	7.362	
5,100.00	5,067.36	5,093.92	5,078.54	14.94	13.28	-148.17	250.57	-295.92	189.36	163.88	25.48	7.431	
5,200.00	5,166.48	5,193.77	5,178.05	15.27	13.55	-148.53	256.14	-302.02	194.78	168.81	25.98	7.498	
5,300.00	5,265.59	5,293.61	5,277.55	15.60	13.82	-148.87	261.71	-308.13	200.21	173.74	26.47	7.563	
5,400.00	5,364.70	5,393.46	5,377.05	15.93	14.09	-149.18	267.28	-314.23	205.65	178.68	26.97	7.625	
5,500.00	5,463.82	5,493.31	5,476.55	16.26	14.36	-149.49	272.85	-320.34	211.09	183.63	27.47	7.685	
5,600.00	5,562.93	5,593.15	5,576.06	16.59	14.63	-149.77	278.43	-326.44	216.54	188.58	27.96	7.743	
5,700.00	5,662.04	5,693.00	5,675.56	16.92	14.90	-150.05	284.00	-332.55	222.00	193.53	28.46	7.800	
5,800.00	5,761.15	5,792.84	5,775.06	17.25	15.17	-150.31	289.57	-338.65	227.45	198.50	28.96	7.854	
5,900.00	5,860.27	5,892.69	5,874.57	17.58	15.44	-150.56	295.14	-344.75	232.92	203.46	29.46	7.907	
6,000.00	5,959.38	5,992.53	5,974.07	17.91	15.71	-150.79	300.71	-350.86	238.38	208.43	29.95	7.958	
6,100.00	6,058.49	6,092.38	6,073.57	18.24	15.98	-151.02	306.28	-356.96	243.86	213.40	30.45	8.008	
6,200.00	6,157.61	6,192.23	6,173.08	18.57	16.25	-151.23	311.86	-363.07	249.33	218.38	30.95	8.056	
6,300.00	6,256.72	6,292.07	6,272.58	18.90	16.52	-151.44	317.43	-369.17	254.81	223.36	31.45	8.102	
6,400.00	6,355.83	6,391.92	6,372.08	19.23	16.79	-151.64	323.00	-375.28	260.29	228.34	31.95	8.148	
6,500.00	6,454.95	6,491.76	6,471.59	19.56	17.06	-151.83	328.57	-381.38	265.77	233.33	32.45	8.191	
6,600.00	6,554.06	6,591.61	6,571.09	19.89	17.33	-152.01	334.14	-387.49	271.26	238.32	32.94	8.234	
6,700.00	6,653.17	6,691.45	6,670.59	20.22	17.60	-152.19	339.72	-393.59	276.75	243.31	33.44	8.275	
6,800.00	6,752.28	6,791.30	6,770.09	20.55	17.87	-152.35	345.29	-399.69	282.24	248.30	33.94	8.316	
6,900.00	6,851.40	6,891.15	6,869.60	20.88	18.14	-152.52	350.86	-405.80	287.74	253.30	34.44	8.355	
7,000.00	6,950.51	6,990.99	6,969.10	21.21	18.41	-152.67	356.43	-411.90	293.23	258.29	34.94	8.393	
7,100.00	7,049.62	7,090.84	7,068.60	21.54	18.68	-152.82	362.00	-418.01	298.73	263.29	35.44	8.430	
7,174.60	7,123.56	7,165.32	7,142.83	21.79	18.89	-152.93	366.16	-422.56	302.83	267.02	35.81	8.457	
7,200.00	7,148.74	7,190.69	7,168.11	21.86	18.96	-152.97	367.57	-424.11	304.18	268.25	35.93	8.465	
7,300.00	7,248.02	7,290.59	7,267.67	22.11	19.23	-153.01	373.15	-430.22	308.51	272.13	36.38	8.479	
7,400.00	7,347.49	7,390.55	7,367.29	22.34	19.50	-152.91	378.73	-436.33	311.29	274.45	36.84	8.449	
7,500.00	7,447.13	7,487.46	7,463.90	22.56	19.73	-152.72	383.82	-441.91	312.89	275.63	37.26	8.396	
7,600.00	7,546.90	7,583.43	7,559.69	22.75	19.92	-152.57	387.81	-446.28	314.19	276.57	37.62	8.351	
7,700.00	7,646.77	7,679.40	7,655.56	22.93	20.09	-152.48	390.71	-449.47	315.23	277.27	37.95	8.306	
7,800.00	7,746.72	7,775.37	7,751.49	23.10	20.25	-152.43	392.54	-451.46	315.99	277.74	38.26	8.260	
7,900.00	7,846.70	7,871.33	7,847.44	23.25	20.40	-152.43	393.28	-452.27	316.49	277.95	38.54	8.213	
7,938.30	7,885.00	7,908.47	7,884.58	23.30	20.46	-172.73	393.28	-452.32	316.59	278.46	38.13	8.303	
8,000.00	7,946.70	7,968.88	7,944.99	23.38	20.57	-67.24	393.02	-452.78	316.67	277.81	38.86	8.150	
8,100.00	8,046.68	8,066.78	8,042.87	23.53	20.74	-67.19	391.91	-454.69	316.79	277.57	39.22	8.077	
8,188.30	8,134.92	8,153.53	8,129.55	23.67	20.90	-67.15	390.25	-457.57	316.87	277.31	39.56	8.011	
8,200.00	8,146.61	8,165.24	8,141.25	23.68	20.92	-67.15	389.99	-458.01	316.87	277.27	39.60	8.001	
8,300.00	8,246.52	8,265.24	8,241.15	23.84	21.11	-67.15	387.81	-461.79	316.87	276.86	40.02	7.919	
8,400.00	8,346.42	8,365.24	8,341.05	23.99	21.30	-67.15	385.63	-465.57	316.87	276.44	40.43	7.838	
8,500.00	8,446.33	8,465.24	8,440.96	24.15	21.49	-67.15	383.45	-469.34	316.87	276.03	40.84	7.759	
8,600.00	8,546.23	8,565.24	8,540.86	24.31	21.68	-67.15	381.27	-473.12	316.87	275.61	41.26	7.681	
8,700.00	8,646.14	8,665.24	8,640.77	24.47	21.87	-67.15	379.09	-476.90	316.87	275.20	41.67	7.604	
8,800.00	8,746.04	8,765.24	8,740.67	24.63	22.06	-67.15	376.91	-480.68	316.87	274.78	42.09	7.528	
8,900.00	8,845.95	8,865.24	8,840.58	24.79	22.25	-67.15	374.73	-484.45	316.87	274.36	42.51	7.454	
9,000.00	8,945.85	8,965.24	8,940.48	24.95	22.45	-67.15	372.55	-488.23	316.87	273.94	42.93	7.381	
9,100.00	9,045.76	9,065.24	9,040.39	25.11	22.64	-67.15	370.37	-492.01	316.87	273.52	43.35	7.309	
9,200.00	9,145.66	9,165.24	9,140.29	25.28	22.84	-67.15	368.18	-495.79	316.87	273.10	43.77	7.239	
9,300.00	9,245.57	9,265.24	9,240.20	25.44	23.03	-67.15	366.00	-499.57	316.87	272.67	44.20	7.170	
9,400.00	9,345.47	9,365.24	9,340.10	25.61	23.23	-67.15	363.82	-503.34	316.87	272.25	44.62	7.101	
9,500.00	9,445.38	9,465.24	9,440.01	25.78	23.43	-67.15	361.64	-507.12	316.87	271.82	45.05	7.034	
9,600.00	9,545.28	9,565.24	9,539.91	25.95	23.63	-67.15	359.46	-510.90	316.87	271.40	45.47	6.968	
9,700.00	9,645.18	9,665.24	9,639.82	26.12	23.83	-67.15	357.28	-514.68	316.87	270.97	45.90	6.903	

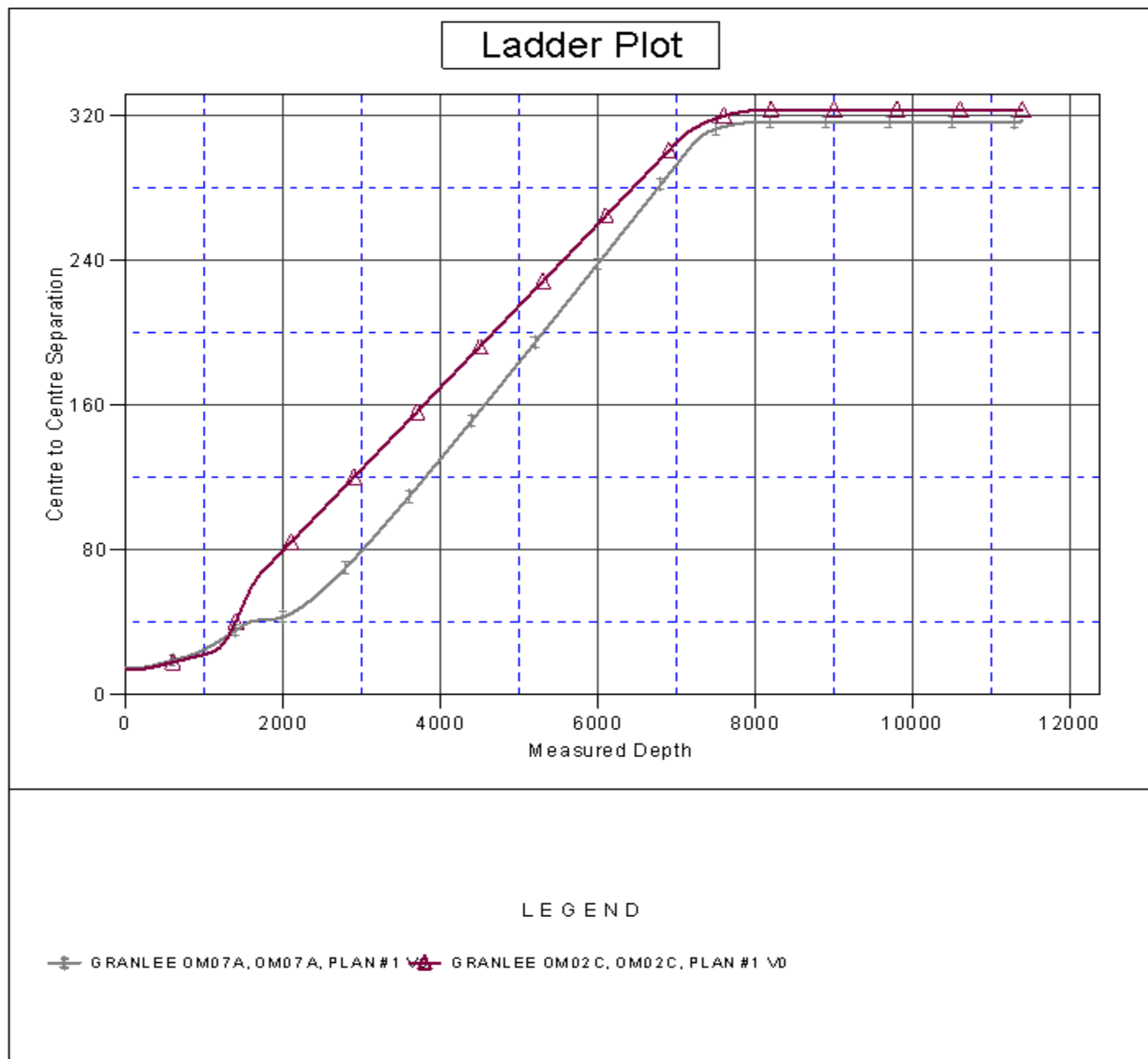
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> OM G03 696 PAD - GRANLEE OM07A - OM07A - PLAN #1												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.00 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
9,800.00	9,745.09	9,765.24	9,739.72	26.29	24.03	-67.15	355.10	-518.45	316.87	270.54	46.33	6.839	
9,900.00	9,844.99	9,865.24	9,839.63	26.46	24.23	-67.15	352.92	-522.23	316.87	270.11	46.76	6.777	
10,000.00	9,944.90	9,965.24	9,939.53	26.63	24.43	-67.15	350.74	-526.01	316.87	269.68	47.19	6.715	
10,100.00	10,044.80	10,065.24	10,039.44	26.81	24.63	-67.15	348.56	-529.79	316.87	269.25	47.62	6.654	
10,200.00	10,144.71	10,165.24	10,139.34	26.98	24.83	-67.15	346.37	-533.56	316.87	268.82	48.05	6.594	
10,300.00	10,244.61	10,265.24	10,239.25	27.16	25.03	-67.15	344.19	-537.34	316.87	268.38	48.49	6.535	
10,400.00	10,344.52	10,365.24	10,339.15	27.34	25.24	-67.15	342.01	-541.12	316.87	267.95	48.92	6.477	
10,500.00	10,444.42	10,465.24	10,439.06	27.51	25.44	-67.15	339.83	-544.90	316.87	267.52	49.35	6.420	
10,600.00	10,544.33	10,565.24	10,538.96	27.69	25.65	-67.15	337.65	-548.67	316.87	267.08	49.79	6.364	
10,700.00	10,644.23	10,665.24	10,638.87	27.87	25.85	-67.15	335.47	-552.45	316.87	266.65	50.22	6.309	
10,800.00	10,744.14	10,765.24	10,738.77	28.05	26.06	-67.15	333.29	-556.23	316.87	266.21	50.66	6.255	
10,900.00	10,844.04	10,865.24	10,838.68	28.23	26.27	-67.15	331.11	-560.01	316.87	265.77	51.10	6.201	
11,000.00	10,943.95	10,965.24	10,938.58	28.41	26.47	-67.15	328.93	-563.78	316.87	265.33	51.54	6.148	
11,100.00	11,043.85	11,065.24	11,038.49	28.60	26.68	-67.15	326.75	-567.56	316.87	264.89	51.98	6.097	
11,200.00	11,143.76	11,165.24	11,138.39	28.78	26.89	-67.15	324.56	-571.34	316.87	264.46	52.42	6.045	
11,300.00	11,243.66	11,265.24	11,238.29	28.96	27.10	-67.15	322.38	-575.12	316.87	264.02	52.86	5.995	
11,350.14	11,293.75	11,315.37	11,288.38	29.06	27.20	-67.15	321.29	-577.01	316.87	263.79	53.08	5.970	
11,391.43	11,335.00	11,342.01	11,315.00	29.13	27.26	-67.15	320.71	-578.02	317.21	263.98	53.23	5.960	

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 8185.50ft (Original Well Elev) Coordinates are relative to: GRANLEE OM02D  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Central Zone  
Central Meridian is 105° 30' 0.0000 W ° Grid Convergence at Surface is: -1.63°

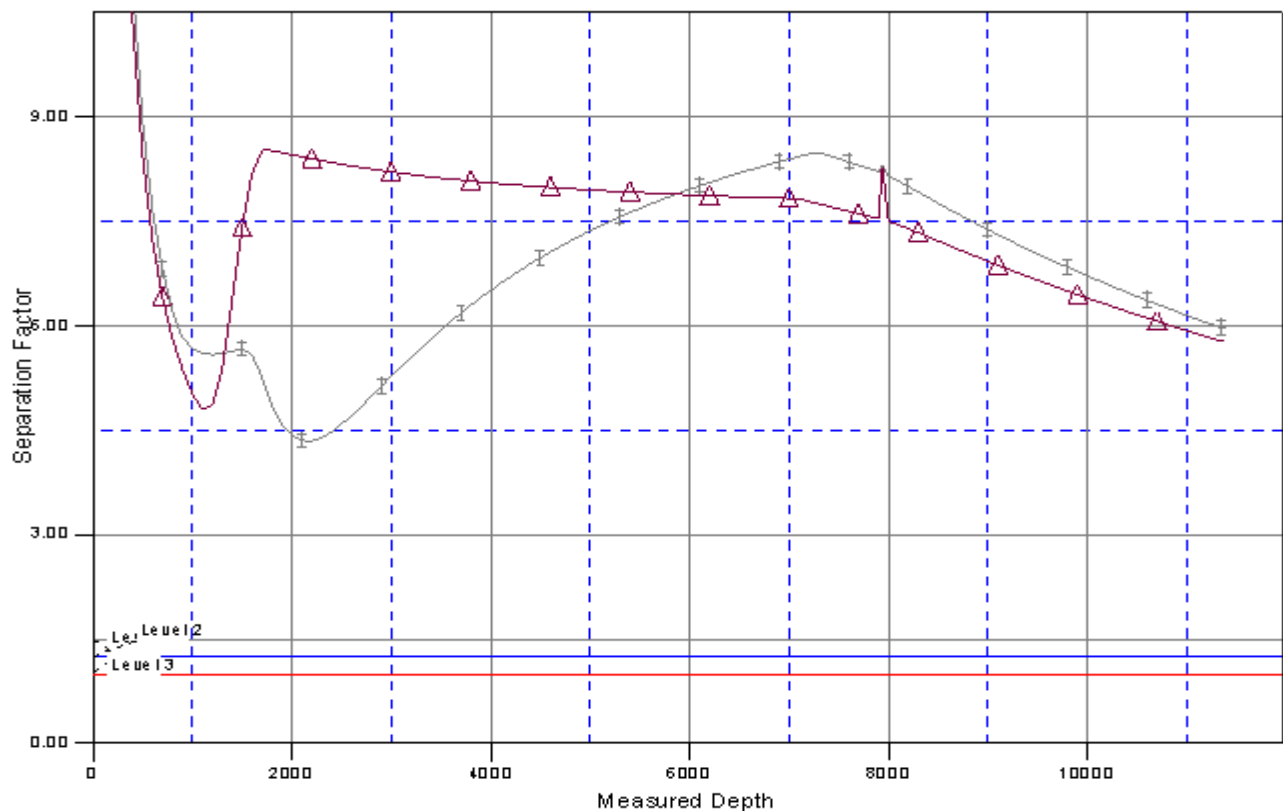




<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM02D
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Reference Site:</b>	OM G03 696 PAD	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GRANLEE OM02D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OM02D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 8185.50ft (Original Well Elev) Coordinates are relative to: GRANLEE OM02D  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Central Zone  
Central Meridian is 105° 30' 0.0000 W ° Grid Convergence at Surface is: -1.63°

## Separation Factor Plot



## LEGEND

GRANLEE OM07A, OM07A, PLAN #1 V0 GRANLEE OM02C, OM02C, PLAN #1 V0





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