

Berry Petroleum Company

# **BERRY PETROLEUM COMPANY**

**GARFIELD COUNTY, COLORADO**

**OM G03 696 PAD**

**GRANLEE OM07D**

**OM07D**

**Plan: PLAN #1**

## **Standard Planning Report**

**08 September, 2008**



**Weatherford®**



Berry Petroleum Company

GRANLEE OM07D  
GARFIELD COUNTY, COLORADO  
SECTION 3-T6S-R96W  
1989 FNL, 1626 FEL  
39° 33' 27.320 N  
108° 5' 30.5800 W



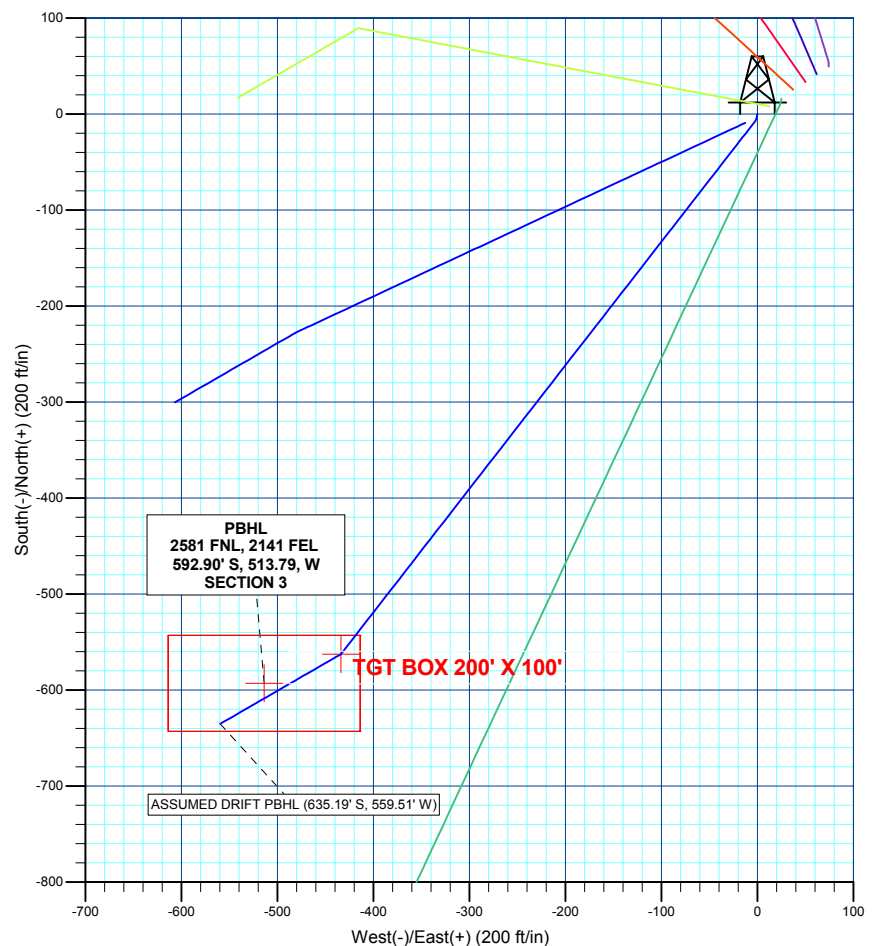
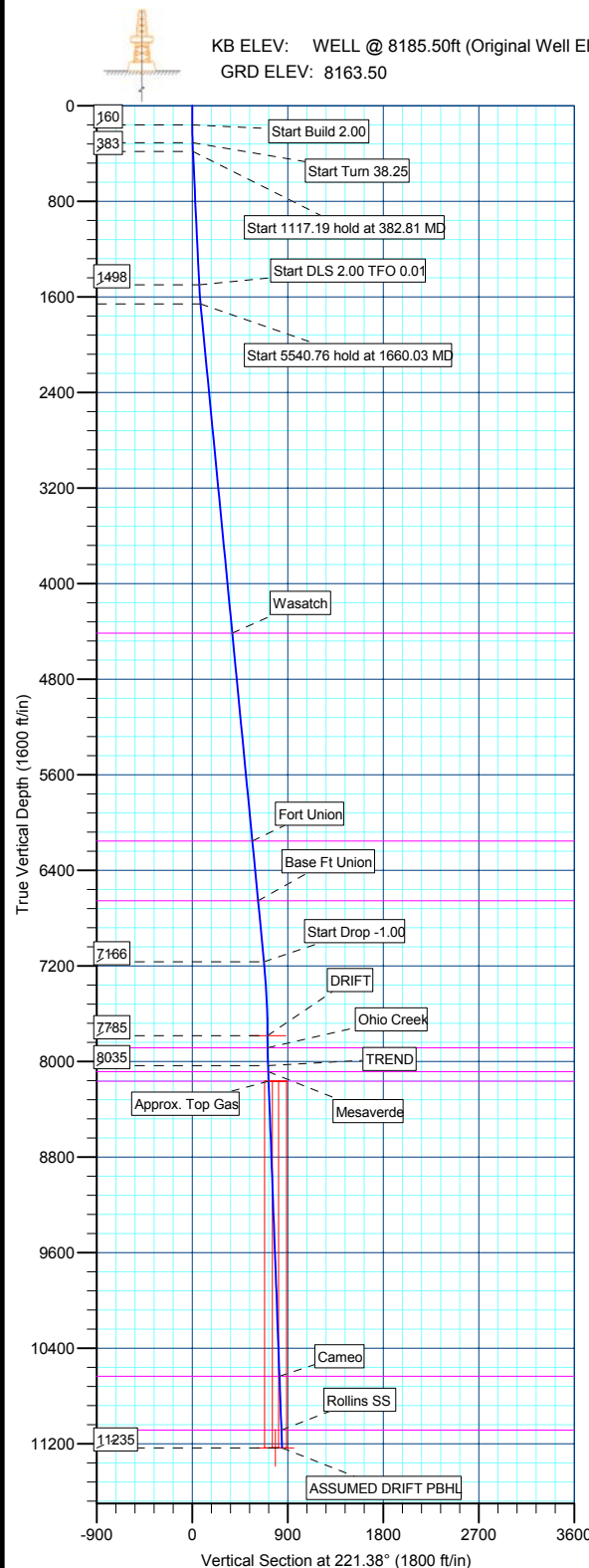
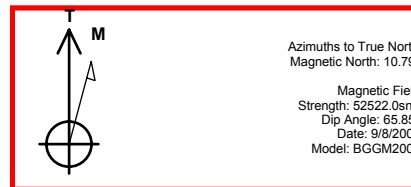
Weatherford®

WELL DETAILS: GRANLEE OM07D						
+N/-S	+E/-W	Northing	Easting	Ground Level: 8163.50	Latitude	Longitude
0.00	0.00	1638403.88	2269324.13	39° 33' 27.320 N	108° 5' 30.5800 W	Slot

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_OM07D-G03-696	11235.00	-592.90	-513.79	1637825.89	2268793.63	39° 33' 21.460 N	108° 5' 37.1400 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	190.00	309.93	-3.87	-0.68	2.00	190.00	3.35		
4	382.82	3.00	217.85	382.65	-7.32	-2.21	2.00	90.00	6.95		
5	1500.00	3.00	217.85	1498.30	-53.48	-38.09	0.00	0.00	65.31		
6	1660.03	6.20	217.85	1657.79	-63.61	-45.97	2.00	0.00	78.12		
7	7200.80	6.20	217.85	7166.15	-536.14	-413.22	0.00	0.00	675.45		
8	7820.86	0.00	0.00	7785.00	-562.60	-433.79	1.00	180.00	708.90	Plan @ 7785.00 (GRANLEE OM07D OM07D PLAN #1)	
9	8070.86	2.50	240.00	8034.92	-565.33	-438.51	1.00	240.00	714.07		
10	11273.99	2.50	240.00	11235.00	-635.19	-559.51	0.00	0.00	846.47	PBHL_OM07D-G03-696	

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
4415.00	4433.46	Wasatch	
6155.00	6183.70	Fort Union	
6655.00	6686.64	Base Ft Union	
7885.00	7920.86	Ohio Creek	
8085.00	8120.99	Mesaverde	
8165.00	8201.06	Approx. Top Gas	
10635.00	10673.42	Cameo	
11085.00	1123.84	Rollins SS	



Plan: PLAN #1 (GRANLEE OM07D/OM07D)

Created By: Robert H. Scott



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM07D		
<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		

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

<b>Well</b>	GRANLEE OM07D			
<b>Well Position</b>	<b>+N/-S</b>	9.09 ft	<b>Northing:</b>	1,638,403.88 ft
	<b>+E/-W</b>	12.53 ft	<b>Easting:</b>	2,269,324.13 ft
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft
			<b>Ground Level:</b>	8,163.50 ft

<b>Wellbore</b>	OM07D				
<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	221.38

<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	190.00	309.93	-3.87	-0.68	2.00	2.00	0.00	190.00	
382.82	3.00	217.85	382.65	-7.32	-2.21	2.00	0.00	38.25	90.00	
1,500.01	3.00	217.85	1,498.31	-53.48	-38.09	0.00	0.00	0.00	0.00	
1,660.04	6.20	217.85	1,657.81	-63.61	-45.97	2.00	2.00	0.00	0.00	
7,200.80	6.20	217.85	7,166.15	-536.14	-413.22	0.00	0.00	0.00	0.00	
7,820.86	0.00	0.00	7,785.00	-562.60	-433.79	1.00	-1.00	0.00	180.00	Plan @ 7785.00 (G
8,070.86	2.50	240.00	8,034.92	-565.33	-438.51	1.00	1.00	0.00	240.00	
11,273.99	2.50	240.00	11,235.00	-635.19	-559.51	0.00	0.00	0.00	0.00	PBHL_OM07D-G03



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM07D		
<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	190.00	200.00	-0.28	-0.05	0.24	2.00	2.00	0.00
300.00	2.80	190.00	299.94	-3.37	-0.59	2.92	2.00	2.00	0.00
310.00	3.00	190.00	309.93	-3.87	-0.68	3.35	2.00	2.00	0.00
<b>Start Turn 38.25</b>									
382.81	3.00	217.85	382.65	-7.25	-2.18	6.88	1.98	0.00	38.25
<b>Start 1117.19 hold at 382.81 MD</b>									
382.82	3.00	217.85	382.65	-7.32	-2.21	6.95	1.98	0.48	36.77
400.00	3.00	217.85	399.81	-8.03	-2.76	7.85	0.00	0.00	0.00
500.00	3.00	217.85	499.67	-12.16	-5.98	13.07	0.00	0.00	0.00
600.00	3.00	217.85	599.53	-16.29	-9.19	18.30	0.00	0.00	0.00
700.00	3.00	217.85	699.40	-20.42	-12.40	23.52	0.00	0.00	0.00
800.00	3.00	217.85	799.26	-24.55	-15.61	28.74	0.00	0.00	0.00
900.00	3.00	217.85	899.12	-28.69	-18.82	33.97	0.00	0.00	0.00
1,000.00	3.00	217.85	998.99	-32.82	-22.03	39.19	0.00	0.00	0.00
1,100.00	3.00	217.85	1,098.85	-36.95	-25.25	44.42	0.00	0.00	0.00
1,200.00	3.00	217.85	1,198.71	-41.08	-28.46	49.64	0.00	0.00	0.00
1,300.00	3.00	217.85	1,298.57	-45.22	-31.67	54.86	0.00	0.00	0.00
1,400.00	3.00	217.85	1,398.44	-49.35	-34.88	60.09	0.00	0.00	0.00
1,500.00	3.00	217.85	1,498.30	-53.48	-38.09	65.31	0.00	0.00	0.00
<b>Start DLS 2.00 TFO 0.01</b>									
1,500.01	3.00	217.85	1,498.31	-53.48	-38.09	65.31	0.00	0.00	0.00
1,600.00	5.00	217.85	1,598.05	-58.99	-42.37	72.27	2.00	2.00	0.00
1,660.03	6.20	217.85	1,657.80	-63.61	-45.97	78.12	2.00	2.00	0.00
<b>Start 5540.76 hold at 1660.03 MD</b>									
1,660.04	6.20	217.85	1,657.81	-63.61	-45.97	78.12	2.00	2.00	0.00
1,700.00	6.20	217.85	1,697.53	-67.02	-48.62	82.43	0.00	0.00	0.00
1,800.00	6.20	217.85	1,796.95	-75.55	-55.24	93.21	0.00	0.00	0.00
1,900.00	6.20	217.85	1,896.36	-84.08	-61.87	103.99	0.00	0.00	0.00
2,000.00	6.20	217.85	1,995.78	-92.61	-68.50	114.77	0.00	0.00	0.00
2,100.00	6.20	217.85	2,095.19	-101.13	-75.13	125.55	0.00	0.00	0.00
2,200.00	6.20	217.85	2,194.61	-109.66	-81.76	136.33	0.00	0.00	0.00
2,300.00	6.20	217.85	2,294.02	-118.19	-88.39	147.11	0.00	0.00	0.00
2,400.00	6.20	217.85	2,393.44	-126.72	-95.01	157.89	0.00	0.00	0.00
2,500.00	6.20	217.85	2,492.85	-135.25	-101.64	168.67	0.00	0.00	0.00
2,600.00	6.20	217.85	2,592.27	-143.78	-108.27	179.45	0.00	0.00	0.00
2,700.00	6.20	217.85	2,691.68	-152.30	-114.90	190.23	0.00	0.00	0.00
2,800.00	6.20	217.85	2,791.10	-160.83	-121.53	201.01	0.00	0.00	0.00
2,900.00	6.20	217.85	2,890.51	-169.36	-128.15	211.80	0.00	0.00	0.00
3,000.00	6.20	217.85	2,989.93	-177.89	-134.78	222.58	0.00	0.00	0.00
<b>9 5/8"</b>									
3,100.00	6.20	217.85	3,089.34	-186.42	-141.41	233.36	0.00	0.00	0.00
3,200.00	6.20	217.85	3,188.76	-194.94	-148.04	244.14	0.00	0.00	0.00
3,300.00	6.20	217.85	3,288.17	-203.47	-154.67	254.92	0.00	0.00	0.00
3,400.00	6.20	217.85	3,387.59	-212.00	-161.29	265.70	0.00	0.00	0.00
3,500.00	6.20	217.85	3,487.00	-220.53	-167.92	276.48	0.00	0.00	0.00
3,600.00	6.20	217.85	3,586.42	-229.06	-174.55	287.26	0.00	0.00	0.00
3,700.00	6.20	217.85	3,685.83	-237.58	-181.18	298.04	0.00	0.00	0.00
3,800.00	6.20	217.85	3,785.25	-246.11	-187.81	308.82	0.00	0.00	0.00
3,900.00	6.20	217.85	3,884.66	-254.64	-194.44	319.60	0.00	0.00	0.00
4,000.00	6.20	217.85	3,984.08	-263.17	-201.06	330.38	0.00	0.00	0.00
4,100.00	6.20	217.85	4,083.49	-271.70	-207.69	341.16	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 OM07D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM07D		
<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)
4,200.00	6.20	217.85	4,182.91	-280.23	-214.32	351.94	0.00	0.00	0.00
4,300.00	6.20	217.85	4,282.32	-288.75	-220.95	362.72	0.00	0.00	0.00
4,400.00	6.20	217.85	4,381.74	-297.28	-227.58	373.50	0.00	0.00	0.00
4,433.46	6.20	217.85	4,415.00	-300.14	-229.79	377.11	0.00	0.00	0.00
<b>Wasatch</b>									
4,500.00	6.20	217.85	4,481.15	-305.81	-234.20	384.28	0.00	0.00	0.00
4,600.00	6.20	217.85	4,580.57	-314.34	-240.83	395.07	0.00	0.00	0.00
4,700.00	6.20	217.85	4,679.98	-322.87	-247.46	405.85	0.00	0.00	0.00
4,800.00	6.20	217.85	4,779.39	-331.39	-254.09	416.63	0.00	0.00	0.00
4,900.00	6.20	217.85	4,878.81	-339.92	-260.72	427.41	0.00	0.00	0.00
5,000.00	6.20	217.85	4,978.22	-348.45	-267.34	438.19	0.00	0.00	0.00
5,100.00	6.20	217.85	5,077.64	-356.98	-273.97	448.97	0.00	0.00	0.00
5,200.00	6.20	217.85	5,177.05	-365.51	-280.60	459.75	0.00	0.00	0.00
5,300.00	6.20	217.85	5,276.47	-374.04	-287.23	470.53	0.00	0.00	0.00
5,400.00	6.20	217.85	5,375.88	-382.56	-293.86	481.31	0.00	0.00	0.00
5,500.00	6.20	217.85	5,475.30	-391.09	-300.49	492.09	0.00	0.00	0.00
5,600.00	6.20	217.85	5,574.71	-399.62	-307.11	502.87	0.00	0.00	0.00
5,700.00	6.20	217.85	5,674.13	-408.15	-313.74	513.65	0.00	0.00	0.00
5,800.00	6.20	217.85	5,773.54	-416.68	-320.37	524.43	0.00	0.00	0.00
5,900.00	6.20	217.85	5,872.96	-425.20	-327.00	535.21	0.00	0.00	0.00
6,000.00	6.20	217.85	5,972.37	-433.73	-333.63	545.99	0.00	0.00	0.00
6,100.00	6.20	217.85	6,071.79	-442.26	-340.25	556.77	0.00	0.00	0.00
6,183.70	6.20	217.85	6,155.00	-449.40	-345.80	565.80	0.00	0.00	0.00
<b>Fort Union</b>									
6,200.00	6.20	217.85	6,171.20	-450.79	-346.88	567.56	0.00	0.00	0.00
6,300.00	6.20	217.85	6,270.62	-459.32	-353.51	578.34	0.00	0.00	0.00
6,400.00	6.20	217.85	6,370.03	-467.84	-360.14	589.12	0.00	0.00	0.00
6,500.00	6.20	217.85	6,469.45	-476.37	-366.77	599.90	0.00	0.00	0.00
6,600.00	6.20	217.85	6,568.86	-484.90	-373.39	610.68	0.00	0.00	0.00
6,686.64	6.20	217.85	6,655.00	-492.29	-379.14	620.02	0.00	0.00	0.00
<b>Base Ft Union</b>									
6,700.00	6.20	217.85	6,668.28	-493.43	-380.02	621.46	0.00	0.00	0.00
6,800.00	6.20	217.85	6,767.69	-501.96	-386.65	632.24	0.00	0.00	0.00
6,900.00	6.20	217.85	6,867.11	-510.49	-393.28	643.02	0.00	0.00	0.00
7,000.00	6.20	217.85	6,966.52	-519.01	-399.91	653.80	0.00	0.00	0.00
7,100.00	6.20	217.85	7,065.94	-527.54	-406.54	664.58	0.00	0.00	0.00
7,200.00	6.20	217.85	7,165.35	-536.07	-413.16	675.36	0.00	0.00	0.00
7,200.80	6.20	217.85	7,166.15	-536.14	-413.22	675.45	0.00	0.00	0.00
<b>Start Drop -1.00</b>									
7,300.00	5.21	217.85	7,264.86	-543.92	-419.27	685.29	1.00	-1.00	0.00
7,400.00	4.21	217.85	7,364.52	-550.41	-424.30	693.48	1.00	-1.00	0.00
7,500.00	3.21	217.85	7,464.31	-555.51	-428.27	699.94	1.00	-1.00	0.00
7,600.00	2.21	217.85	7,564.19	-559.24	-431.17	704.65	1.00	-1.00	0.00
7,700.00	1.21	217.85	7,664.15	-561.60	-433.00	707.63	1.00	-1.00	0.00
7,800.00	0.21	217.85	7,764.14	-562.57	-433.76	708.87	1.00	-1.00	0.00
7,820.86	0.00	0.00	7,785.00	-562.60	-433.79	708.90	1.00	-1.00	681.43
<b>DRIFT - Plan @ 7785.00 (GRANLEE OM07D OM07D PLAN #1)</b>									
7,900.00	0.79	240.00	7,864.14	-562.88	-434.26	709.42	1.00	1.00	-151.63
7,920.86	1.00	240.00	7,885.00	-563.04	-434.54	709.73	1.00	1.00	0.00
<b>Ohio Creek</b>									
8,000.00	1.79	240.00	7,964.11	-564.00	-436.21	711.56	1.00	1.00	0.00
8,070.86	2.50	240.00	8,034.92	-565.33	-438.51	714.07	1.00	1.00	0.00
<b>TREND</b>									



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM07D		
<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)
8,100.00	2.50	240.00	8,064.03	-565.97	-439.61	715.28	0.00	0.00	0.00
8,120.99	2.50	240.00	8,085.00	-566.42	-440.40	716.14	0.00	0.00	0.00
<b>Mesaverde</b>									
8,200.00	2.50	240.00	8,163.94	-568.15	-443.39	719.41	0.00	0.00	0.00
8,201.06	2.50	240.00	8,165.00	-568.17	-443.43	719.45	0.00	0.00	0.00
<b>Approx. Top Gas</b>									
8,300.00	2.50	240.00	8,263.84	-570.33	-447.16	723.54	0.00	0.00	0.00
8,400.00	2.50	240.00	8,363.75	-572.51	-450.94	727.68	0.00	0.00	0.00
8,500.00	2.50	240.00	8,463.65	-574.69	-454.72	731.81	0.00	0.00	0.00
8,600.00	2.50	240.00	8,563.56	-576.87	-458.50	735.94	0.00	0.00	0.00
8,700.00	2.50	240.00	8,663.46	-579.05	-462.27	740.08	0.00	0.00	0.00
8,800.00	2.50	240.00	8,763.37	-581.23	-466.05	744.21	0.00	0.00	0.00
8,900.00	2.50	240.00	8,863.27	-583.41	-469.83	748.34	0.00	0.00	0.00
9,000.00	2.50	240.00	8,963.18	-585.59	-473.61	752.48	0.00	0.00	0.00
9,100.00	2.50	240.00	9,063.08	-587.78	-477.38	756.61	0.00	0.00	0.00
9,200.00	2.50	240.00	9,162.99	-589.96	-481.16	760.74	0.00	0.00	0.00
9,300.00	2.50	240.00	9,262.89	-592.14	-484.94	764.88	0.00	0.00	0.00
9,400.00	2.50	240.00	9,362.80	-594.32	-488.72	769.01	0.00	0.00	0.00
9,500.00	2.50	240.00	9,462.70	-596.50	-492.49	773.14	0.00	0.00	0.00
9,600.00	2.50	240.00	9,562.61	-598.68	-496.27	777.28	0.00	0.00	0.00
9,700.00	2.50	240.00	9,662.51	-600.86	-500.05	781.41	0.00	0.00	0.00
9,800.00	2.50	240.00	9,762.42	-603.04	-503.83	785.54	0.00	0.00	0.00
9,900.00	2.50	240.00	9,862.32	-605.22	-507.61	789.68	0.00	0.00	0.00
10,000.00	2.50	240.00	9,962.22	-607.40	-511.38	793.81	0.00	0.00	0.00
10,100.00	2.50	240.00	10,062.13	-609.59	-515.16	797.95	0.00	0.00	0.00
10,200.00	2.50	240.00	10,162.03	-611.77	-518.94	802.08	0.00	0.00	0.00
10,300.00	2.50	240.00	10,261.94	-613.95	-522.72	806.21	0.00	0.00	0.00
10,400.00	2.50	240.00	10,361.84	-616.13	-526.49	810.35	0.00	0.00	0.00
10,500.00	2.50	240.00	10,461.75	-618.31	-530.27	814.48	0.00	0.00	0.00
10,600.00	2.50	240.00	10,561.65	-620.49	-534.05	818.61	0.00	0.00	0.00
10,673.42	2.50	240.00	10,635.00	-622.09	-536.82	821.65	0.00	0.00	0.00
<b>Cameo</b>									
10,700.00	2.50	240.00	10,661.56	-622.67	-537.83	822.75	0.00	0.00	0.00
10,800.00	2.50	240.00	10,761.46	-624.85	-541.60	826.88	0.00	0.00	0.00
10,900.00	2.50	240.00	10,861.37	-627.03	-545.38	831.01	0.00	0.00	0.00
11,000.00	2.50	240.00	10,961.27	-629.21	-549.16	835.15	0.00	0.00	0.00
11,100.00	2.50	240.00	11,061.18	-631.40	-552.94	839.28	0.00	0.00	0.00
11,123.84	2.50	240.00	11,085.00	-631.92	-553.84	840.27	0.00	0.00	0.00
<b>Rollins SS</b>									
11,200.00	2.50	240.00	11,161.08	-633.58	-556.71	843.41	0.00	0.00	0.00
11,271.34	2.50	240.00	11,232.35	-635.13	-559.41	846.36	0.00	0.00	0.00
<b>PBHL_OM07D-G03-696</b>									
11,273.99	2.50	240.00	11,235.00	-635.19	-559.51	846.47	0.00	0.00	0.00

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,000.00	2,989.93	9 5/8"	9.62	12.25



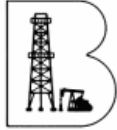
<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>TVD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Project:</b>	GARFIELD COUNTY, COLORADO	<b>MD Reference:</b>	WELL @ 8185.50ft (Original Well Elev)
<b>Site:</b>	OM G03 696 PAD	<b>North Reference:</b>	True
<b>Well:</b>	GRANLEE OM07D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OM07D		
<b>Design:</b>	PLAN #1		

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,433.46	4,415.00	Wasatch		0.00	
6,183.70	6,155.00	Fort Union		0.00	
6,686.64	6,655.00	Base Ft Union		0.00	
7,920.86	7,885.00	Ohio Creek		0.00	
8,120.99	8,085.00	Mesaverde		0.00	
8,201.06	8,165.00	Approx. Top Gas		0.00	
10,673.42	10,635.00	Cameo		0.00	
11,123.84	11,085.00	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	-3.87	-0.68	Start Turn 38.25
382.81	382.64	-7.32	-2.21	Start 1117.19 hold at 382.81 MD
1,500.00	1,498.30	-53.48	-38.09	Start DLS 2.00 TFO 0.01
1,660.03	1,657.80	-63.62	-45.96	Start 5540.76 hold at 1660.03 MD
7,200.80	7,166.15	-536.14	-413.22	Start Drop -1.00
7,820.86	7,785.00	-562.60	-433.79	DRIFT
8,070.86	8,034.92	-565.33	-438.51	TREND
11,273.99	11,235.00	-635.19	-559.51	ASSUMED DRIFT PBHL



Berry Petroleum Company

# **BERRY PETROLEUM COMPANY**

**GARFIELD COUNTY, COLORADO  
OM G03 696 PAD  
GRANLEE OM07D**

**OM07D  
PLAN #1**

## **Anticollision Report**

**08 September, 2008**



**Weatherford®**



<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<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>	OM07D	<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	11,273.99	PLAN #1 (OM07D)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth	Offset Measured Depth	Distance		Separation Factor	Warning
			Between Centres	Between Ellipses		
Offset Well - Wellbore - Design	(ft)	(ft)	(ft)	(ft)		
OM G03 696 PAD						
GRANLEE OM07B - OM07B - PLAN #1	205.72	205.88	14.91	14.27	23.441	CC, ES
GRANLEE OM07B - OM07B - PLAN #1	1,500.00	1,498.54	75.32	68.59	11.193	SF
GRANLEE OM07C - OM07C - PLAN #1	160.00	160.00	15.48	15.04	34.790	CC
GRANLEE OM07C - OM07C - PLAN #1	200.00	199.79	15.56	14.95	25.597	ES
GRANLEE OM07C - OM07C - PLAN #1	11,273.99	11,261.58	338.62	283.12	6.101	SF

Offset Design		OM G03 696 PAD - GRANLEE OM07B - OM07B - 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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
							+N/-S (ft)	+E/-W (ft)								
0.00	0.00	0.00	0.00	0.00	0.00	57.14	8.09	12.53	14.92							
100.00	100.00	100.00	100.00	0.09	0.09	57.14	8.09	12.53	14.92	14.74	0.18	85.092				
160.00	160.00	160.00	160.00	0.22	0.22	57.14	8.09	12.53	14.92	14.47	0.45	33.521				
200.00	200.00	200.15	200.15	0.30	0.31	-134.40	8.15	12.25	14.91	14.30	0.61	24.379				
205.72	205.72	205.88	205.88	0.31	0.32	-134.87	8.16	12.17	14.91	14.27	0.64	23.441	CC, ES			
310.00	309.93	310.36	310.29	0.53	0.55	-153.67	8.83	8.66	15.77	14.68	1.08	14.556				
382.82	382.65	383.03	382.86	0.69	0.72	165.07	9.54	4.92	18.31	16.90	1.41	12.986				
400.00	399.81	400.18	399.98	0.73	0.76	163.11	9.71	4.04	19.00	17.51	1.49	12.776				
500.00	499.67	500.03	499.70	0.97	1.00	154.17	10.69	-1.10	23.36	21.41	1.95	11.993				
600.00	599.53	599.88	599.41	1.21	1.24	148.14	11.66	-6.23	28.11	25.69	2.42	11.630				
700.00	699.40	699.73	699.13	1.45	1.49	143.89	12.64	-11.36	33.08	30.19	2.89	11.442				
800.00	799.26	799.58	798.84	1.69	1.73	140.76	13.61	-16.50	38.18	34.81	3.37	11.339				
900.00	899.12	899.43	898.55	1.94	1.97	138.37	14.59	-21.63	43.37	39.53	3.85	11.279				
1,000.00	998.99	999.28	998.27	2.18	2.22	136.49	15.57	-26.76	48.62	44.30	4.32	11.243				
1,100.00	1,098.85	1,099.13	1,097.98	2.43	2.46	134.98	16.54	-31.90	53.91	49.11	4.80	11.222				
1,200.00	1,198.71	1,198.98	1,197.70	2.68	2.70	133.74	17.52	-37.03	59.24	53.95	5.28	11.209				
1,300.00	1,298.57	1,298.83	1,297.41	2.92	2.95	132.71	18.49	-42.17	64.58	58.81	5.77	11.201				
1,400.00	1,398.44	1,398.69	1,397.12	3.17	3.19	131.83	19.47	-47.30	69.94	63.70	6.25	11.196				
1,500.00	1,498.30	1,498.54	1,496.84	3.42	3.44	131.08	20.45	-52.43	75.32	68.59	6.73	11.193	SF			
1,600.00	1,598.05	1,598.32	1,596.48	3.68	3.68	131.27	21.42	-57.56	81.85	74.64	7.21	11.347				
1,660.03	1,657.79	1,658.12	1,656.20	3.85	3.83	132.17	22.01	-60.64	86.88	79.38	7.51	11.574				
1,700.00	1,697.53	1,697.90	1,695.93	3.96	3.93	132.96	22.40	-62.68	90.53	82.83	7.71	11.749				

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 OM07D
<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 OM07D	<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>	OM07D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												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	
1,800.00	1,796.95	1,797.44	1,795.33	4.25	4.17	134.67	23.37	-67.80	99.73	91.52	8.20	12.157	
1,900.00	1,896.36	1,896.73	1,894.45	4.55	4.42	135.75	24.46	-73.56	109.19	100.48	8.71	12.542	
2,000.00	1,995.78	1,996.26	1,993.80	4.84	4.67	136.62	25.58	-79.44	118.71	109.50	9.21	12.889	
2,100.00	2,095.19	2,095.79	2,093.15	5.14	4.92	137.35	26.70	-85.32	128.26	118.54	9.72	13.202	
2,200.00	2,194.61	2,195.32	2,192.50	5.44	5.17	137.98	27.82	-91.20	137.82	127.60	10.22	13.485	
2,300.00	2,294.02	2,294.85	2,291.85	5.74	5.41	138.53	28.94	-97.09	147.40	136.68	10.73	13.743	
2,400.00	2,393.44	2,394.38	2,391.20	6.04	5.66	139.02	30.06	-102.97	156.99	145.76	11.23	13.978	
2,500.00	2,492.85	2,493.91	2,490.55	6.34	5.91	139.44	31.17	-108.85	166.59	154.86	11.74	14.193	
2,600.00	2,592.27	2,593.44	2,589.90	6.64	6.16	139.83	32.29	-114.73	176.20	163.96	12.24	14.391	
2,700.00	2,691.68	2,692.97	2,689.25	6.94	6.41	140.17	33.41	-120.61	185.82	173.07	12.75	14.574	
2,800.00	2,791.10	2,792.51	2,788.60	7.24	6.66	140.47	34.53	-126.49	195.44	182.18	13.26	14.743	
2,900.00	2,890.51	2,892.04	2,887.95	7.54	6.91	140.75	35.65	-132.37	205.07	191.30	13.76	14.900	
3,000.00	2,989.93	2,991.57	2,987.30	7.84	7.16	141.01	36.76	-138.25	214.70	200.43	14.27	15.046	
3,100.00	3,089.34	3,091.10	3,086.65	8.15	7.41	141.24	37.88	-144.13	224.33	209.55	14.78	15.182	
3,200.00	3,188.76	3,190.63	3,186.01	8.45	7.66	141.45	39.00	-150.01	233.97	218.69	15.28	15.309	
3,300.00	3,288.17	3,290.16	3,285.36	8.75	7.91	141.65	40.12	-155.89	243.61	227.82	15.79	15.428	
3,400.00	3,387.59	3,389.69	3,384.71	9.06	8.16	141.83	41.24	-161.77	253.25	236.96	16.30	15.540	
3,500.00	3,487.00	3,489.22	3,484.06	9.36	8.41	142.00	42.35	-167.65	262.90	246.10	16.80	15.645	
3,600.00	3,586.42	3,588.75	3,583.41	9.67	8.66	142.15	43.47	-173.53	272.55	255.24	17.31	15.744	
3,700.00	3,685.83	3,688.28	3,682.76	9.97	8.91	142.30	44.59	-179.42	282.20	264.38	17.82	15.837	
3,800.00	3,785.25	3,787.81	3,782.11	10.27	9.16	142.44	45.71	-185.30	291.85	273.52	18.33	15.925	
3,900.00	3,884.66	3,887.34	3,881.46	10.58	9.41	142.56	46.83	-191.18	301.50	282.67	18.83	16.009	
4,000.00	3,984.08	3,986.88	3,980.81	10.88	9.66	142.68	47.95	-197.06	311.16	291.82	19.34	16.088	
4,100.00	4,083.49	4,086.41	4,080.16	11.19	9.91	142.79	49.06	-202.94	320.81	300.96	19.85	16.163	
4,200.00	4,182.91	4,185.94	4,179.51	11.49	10.16	142.90	50.18	-208.82	330.47	310.11	20.36	16.234	
4,300.00	4,282.32	4,285.47	4,278.86	11.80	10.41	143.00	51.30	-214.70	340.13	319.26	20.86	16.302	
4,400.00	4,381.74	4,385.00	4,378.21	12.10	10.66	143.09	52.42	-220.58	349.79	328.42	21.37	16.367	
4,500.00	4,481.15	4,484.53	4,477.56	12.41	10.91	143.18	53.54	-226.46	359.45	337.57	21.88	16.429	
4,600.00	4,580.57	4,584.06	4,576.91	12.72	11.16	143.27	54.65	-232.34	369.11	346.72	22.39	16.488	
4,700.00	4,679.98	4,683.59	4,676.27	13.02	11.41	143.35	55.77	-238.22	378.77	355.87	22.89	16.544	
4,800.00	4,779.39	4,783.12	4,775.62	13.33	11.66	143.42	56.89	-244.10	388.43	365.03	23.40	16.598	
4,900.00	4,878.81	4,882.65	4,874.97	13.63	11.91	143.49	58.01	-249.98	398.09	374.18	23.91	16.650	
5,000.00	4,978.22	4,982.18	4,974.32	13.94	12.16	143.56	59.13	-255.86	407.76	383.34	24.42	16.699	
5,100.00	5,077.64	5,081.71	5,073.67	14.24	12.41	143.63	60.24	-261.74	417.42	392.50	24.93	16.747	
5,200.00	5,177.05	5,181.25	5,173.02	14.55	12.66	143.69	61.36	-267.63	427.09	401.65	25.43	16.792	
5,300.00	5,276.47	5,280.78	5,272.37	14.85	12.91	143.75	62.48	-273.51	436.75	410.81	25.94	16.836	
5,400.00	5,375.88	5,380.31	5,371.72	15.16	13.16	143.81	63.60	-279.39	446.42	419.97	26.45	16.878	
5,500.00	5,475.30	5,479.84	5,471.07	15.47	13.41	143.86	64.72	-285.27	456.08	429.13	26.96	16.919	
5,600.00	5,574.71	5,579.37	5,570.42	15.77	13.66	143.92	65.84	-291.15	465.75	438.28	27.47	16.958	
5,700.00	5,674.13	5,678.90	5,669.77	16.08	13.91	143.97	66.95	-297.03	475.42	447.44	27.97	16.995	
5,800.00	5,773.54	5,778.43	5,769.12	16.38	14.16	144.02	68.07	-302.91	485.08	456.60	28.48	17.032	
5,900.00	5,872.96	5,877.96	5,868.47	16.69	14.41	144.06	69.19	-308.79	494.75	465.76	28.99	17.067	
6,000.00	5,972.37	5,977.49	5,967.82	17.00	14.66	144.11	70.31	-314.67	504.42	474.92	29.50	17.101	
6,100.00	6,071.79	6,077.02	6,067.17	17.30	14.91	144.15	71.43	-320.55	514.08	484.08	30.01	17.133	
6,200.00	6,171.20	6,176.55	6,166.53	17.61	15.16	144.19	72.54	-326.43	523.75	493.24	30.51	17.165	
6,300.00	6,270.62	6,276.08	6,265.88	17.91	15.41	144.23	73.66	-332.31	533.42	502.40	31.02	17.195	
6,400.00	6,370.03	6,375.62	6,365.23	18.22	15.66	144.27	74.78	-338.19	543.09	511.56	31.53	17.225	
6,500.00	6,469.45	6,475.15	6,464.58	18.53	15.91	144.31	75.90	-344.07	552.76	520.72	32.04	17.254	
6,600.00	6,568.86	6,574.68	6,563.93	18.83	16.16	144.34	77.02	-349.95	562.43	529.88	32.55	17.281	
6,700.00	6,668.28	6,674.21	6,663.28	19.14	16.41	144.38	78.13	-355.84	572.10	539.04	33.05	17.308	
6,800.00	6,767.69	6,773.74	6,762.63	19.45	16.66	144.41	79.25	-361.72	581.77	548.21	33.56	17.334	
6,900.00	6,867.11	6,873.27	6,861.98	19.75	16.91	144.44	80.37	-367.60	591.44	557.37	34.07	17.360	

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 OM07D
<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 OM07D	<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>	OM07D	<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 OM07B - OM07B - 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
7,000.00	6,966.52	6,972.80	6,961.33	20.06	17.16	144.48	81.49	-373.48	601.11	566.53	34.58	17.384	
7,100.00	7,065.94	7,072.33	7,060.68	20.37	17.41	144.51	82.61	-379.36	610.78	575.69	35.09	17.408	
7,200.80	7,166.15	7,172.66	7,160.83	20.67	17.66	144.54	83.73	-385.29	620.52	584.93	35.60	17.431	
7,300.00	7,264.86	7,271.46	7,259.45	20.92	17.91	144.57	84.84	-391.12	629.42	593.33	36.09	17.441	
7,400.00	7,364.52	7,371.16	7,358.97	21.12	18.16	144.51	85.96	-397.01	636.98	600.43	36.54	17.430	
7,500.00	7,464.31	7,470.95	7,458.58	21.30	18.41	144.35	87.09	-402.91	643.12	606.13	36.99	17.385	
7,600.00	7,564.19	7,571.80	7,559.27	21.47	18.64	144.11	88.16	-408.57	647.82	610.40	37.42	17.314	
7,700.00	7,664.15	7,673.51	7,660.88	21.62	18.83	143.93	88.94	-412.67	650.86	613.09	37.78	17.229	
7,800.00	7,764.14	7,775.31	7,762.65	21.76	19.00	143.79	89.38	-414.99	652.23	614.13	38.10	17.118	
7,820.86	7,785.00	7,796.55	7,783.90	21.79	19.03	1.63	89.43	-415.26	652.30	612.29	40.01	16.303	
7,900.00	7,864.14	7,878.01	7,865.35	21.94	19.17	121.64	89.48	-415.61	652.62	614.15	38.47	16.962	
8,000.00	7,964.11	7,984.37	7,971.70	22.14	19.38	121.71	88.79	-416.79	653.13	614.22	38.91	16.787	
8,070.86	8,034.92	8,059.75	8,047.05	22.30	19.55	121.76	87.71	-418.66	653.46	614.23	39.23	16.657	
8,100.00	8,064.03	8,090.75	8,078.03	22.36	19.61	121.77	87.12	-419.68	653.54	614.18	39.36	16.603	
8,200.00	8,163.94	8,191.76	8,178.95	22.59	19.84	121.77	84.93	-423.48	653.56	613.73	39.82	16.413	
8,300.00	8,263.84	8,291.76	8,278.85	22.81	20.06	121.77	82.75	-427.25	653.56	613.28	40.28	16.227	
8,400.00	8,363.75	8,391.76	8,378.76	23.04	20.29	121.77	80.57	-431.03	653.56	612.82	40.73	16.045	
8,500.00	8,463.65	8,491.76	8,478.66	23.27	20.51	121.77	78.39	-434.81	653.56	612.37	41.19	15.867	
8,600.00	8,563.56	8,591.76	8,578.57	23.49	20.74	121.77	76.21	-438.59	653.56	611.91	41.65	15.693	
8,700.00	8,663.46	8,691.76	8,678.47	23.72	20.97	121.77	74.03	-442.36	653.56	611.45	42.10	15.522	
8,800.00	8,763.37	8,791.76	8,778.38	23.95	21.19	121.77	71.85	-446.14	653.56	610.99	42.56	15.355	
8,900.00	8,863.27	8,891.76	8,878.28	24.18	21.42	121.77	69.67	-449.92	653.56	610.53	43.02	15.192	
9,000.00	8,963.18	8,991.76	8,978.19	24.40	21.65	121.77	67.48	-453.70	653.56	610.08	43.48	15.031	
9,100.00	9,063.08	9,091.76	9,078.09	24.63	21.87	121.77	65.30	-457.47	653.56	609.62	43.94	14.874	
9,200.00	9,162.99	9,191.76	9,178.00	24.86	22.10	121.77	63.12	-461.25	653.56	609.16	44.40	14.721	
9,300.00	9,262.89	9,291.76	9,277.90	25.09	22.33	121.77	60.94	-465.03	653.56	608.70	44.86	14.570	
9,400.00	9,362.80	9,391.76	9,377.81	25.32	22.56	121.77	58.76	-468.81	653.56	608.24	45.32	14.422	
9,500.00	9,462.70	9,491.76	9,477.71	25.55	22.78	121.77	56.58	-472.58	653.56	607.78	45.78	14.277	
9,600.00	9,562.61	9,591.76	9,577.62	25.78	23.01	121.77	54.40	-476.36	653.56	607.32	46.24	14.135	
9,700.00	9,662.51	9,691.76	9,677.52	26.01	23.24	121.77	52.22	-480.14	653.56	606.86	46.70	13.996	
9,800.00	9,762.42	9,791.76	9,777.43	26.24	23.47	121.77	50.04	-483.92	653.56	606.40	47.16	13.859	
9,900.00	9,862.32	9,891.76	9,877.33	26.47	23.70	121.77	47.86	-487.69	653.56	605.94	47.62	13.725	
10,000.00	9,962.22	9,991.76	9,977.23	26.70	23.93	121.77	45.67	-491.47	653.56	605.48	48.08	13.593	
10,100.00	10,062.13	10,091.76	10,077.14	26.93	24.16	121.77	43.49	-495.25	653.56	605.01	48.54	13.464	
10,200.00	10,162.03	10,191.76	10,177.04	27.16	24.39	121.77	41.31	-499.03	653.56	604.55	49.00	13.337	
10,300.00	10,261.94	10,291.76	10,276.95	27.39	24.62	121.77	39.13	-502.80	653.56	604.09	49.46	13.213	
10,400.00	10,361.84	10,391.76	10,376.85	27.62	24.85	121.77	36.95	-506.58	653.56	603.63	49.93	13.090	
10,500.00	10,461.75	10,491.76	10,476.76	27.85	25.08	121.77	34.77	-510.36	653.56	603.17	50.39	12.970	
10,600.00	10,561.65	10,591.76	10,576.66	28.08	25.31	121.77	32.59	-514.14	653.56	602.70	50.85	12.852	
10,700.00	10,661.56	10,691.76	10,676.57	28.31	25.54	121.77	30.41	-517.91	653.56	602.24	51.31	12.737	
10,800.00	10,761.46	10,791.76	10,776.47	28.54	25.77	121.77	28.23	-521.69	653.56	601.78	51.78	12.623	
10,900.00	10,861.37	10,891.76	10,876.38	28.77	26.00	121.77	26.05	-525.47	653.56	601.32	52.24	12.511	
11,000.00	10,961.27	10,991.76	10,976.28	29.01	26.24	121.77	23.87	-529.25	653.56	600.85	52.70	12.401	
11,100.00	11,061.18	11,091.76	11,076.19	29.24	26.47	121.77	21.68	-533.02	653.56	600.39	53.17	12.293	
11,200.00	11,161.08	11,191.76	11,176.09	29.47	26.70	121.77	19.50	-536.80	653.56	599.93	53.63	12.187	
11,273.99	11,235.00	11,265.75	11,250.01	29.64	26.87	121.77	17.89	-539.60	653.56	599.58	53.97	12.109	

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<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>	OM07D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	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
0.00	0.00	0.00	0.00	0.00	0.00	-125.97	-9.09	-12.53	15.48				
100.00	100.00	100.00	100.00	0.09	0.09	-125.97	-9.09	-12.53	15.48	15.31	0.18	88.313	
160.00	160.00	160.00	160.00	0.22	0.22	-125.97	-9.09	-12.53	15.48	15.04	0.45	34.790 CC	
200.00	200.00	199.79	199.79	0.30	0.31	44.94	-9.21	-12.78	15.56	14.95	0.61	25.597 ES	
310.00	309.93	309.12	309.05	0.53	0.54	55.83	-10.73	-16.05	16.85	15.79	1.06	15.865	
382.82	382.65	381.56	381.35	0.69	0.71	35.47	-12.68	-20.23	18.84	17.45	1.39	13.584	
400.00	399.81	398.73	398.47	0.73	0.75	36.50	-13.19	-21.32	19.30	17.84	1.46	13.183	
500.00	499.67	498.67	498.17	0.97	1.00	41.60	-16.16	-27.67	22.11	20.19	1.92	11.518	
600.00	599.53	598.62	597.87	1.21	1.26	45.54	-19.12	-34.02	25.05	22.66	2.39	10.500	
700.00	699.40	698.56	697.57	1.45	1.52	48.63	-22.09	-40.37	28.08	25.22	2.86	9.821	
800.00	799.26	798.51	797.26	1.69	1.78	51.12	-25.05	-46.72	31.18	27.84	3.34	9.341	
900.00	899.12	898.45	896.96	1.94	2.04	53.15	-28.02	-53.08	34.33	30.51	3.82	8.986	
1,000.00	998.99	998.39	996.66	2.18	2.30	54.85	-30.98	-59.43	37.51	33.21	4.30	8.714	
1,100.00	1,098.85	1,098.34	1,096.36	2.43	2.56	56.27	-33.94	-65.78	40.72	35.93	4.79	8.499	
1,200.00	1,198.71	1,198.28	1,196.05	2.68	2.82	57.49	-36.91	-72.13	43.95	38.67	5.28	8.325	
1,300.00	1,298.57	1,298.22	1,295.75	2.92	3.08	58.54	-39.87	-78.48	47.20	41.43	5.77	8.182	
1,400.00	1,398.44	1,398.17	1,395.45	3.17	3.34	59.45	-42.84	-84.84	50.47	44.21	6.26	8.063	
1,500.00	1,498.30	1,498.11	1,495.15	3.42	3.61	60.25	-45.80	-91.19	53.74	46.99	6.75	7.962	
1,600.00	1,598.05	1,598.05	1,594.84	3.68	3.87	62.48	-48.77	-97.54	56.20	48.93	7.27	7.733	
1,660.03	1,657.79	1,658.01	1,654.65	3.85	4.03	65.24	-50.55	-101.35	56.99	49.39	7.61	7.494	
1,700.00	1,697.53	1,697.92	1,694.46	3.96	4.13	67.42	-51.73	-103.89	57.43	49.59	7.84	7.326	
1,800.00	1,796.95	1,797.77	1,794.06	4.25	4.39	72.72	-54.69	-110.23	58.88	50.45	8.43	6.985	
1,900.00	1,896.36	1,897.61	1,893.66	4.55	4.65	77.73	-57.65	-116.58	60.81	51.79	9.02	6.740	
2,000.00	1,995.78	1,997.45	1,993.26	4.84	4.92	82.39	-60.61	-122.92	63.18	53.56	9.62	6.571	
2,100.00	2,095.19	2,097.30	2,092.86	5.14	5.18	86.70	-63.58	-129.27	65.93	55.73	10.20	6.462	
2,200.00	2,194.61	2,197.14	2,192.46	5.44	5.44	90.63	-66.54	-135.61	69.03	58.25	10.78	6.401	
2,300.00	2,294.02	2,296.99	2,292.05	5.74	5.70	94.22	-69.50	-141.96	72.42	61.06	11.36	6.376	
2,400.00	2,393.44	2,396.83	2,391.65	6.04	5.97	97.47	-72.46	-148.31	76.07	64.15	11.93	6.379	
2,500.00	2,492.85	2,496.68	2,491.25	6.34	6.23	100.42	-75.42	-154.65	79.95	67.46	12.49	6.403	
2,600.00	2,592.27	2,596.52	2,590.85	6.64	6.49	103.09	-78.38	-161.00	84.01	70.97	13.04	6.443	
2,700.00	2,691.68	2,696.36	2,690.45	6.94	6.75	105.51	-81.35	-167.34	88.24	74.66	13.59	6.494	
2,800.00	2,791.10	2,796.21	2,790.05	7.24	7.01	107.70	-84.31	-173.69	92.62	78.49	14.13	6.554	
2,900.00	2,890.51	2,896.05	2,889.65	7.54	7.28	109.69	-87.27	-180.03	97.12	82.45	14.67	6.620	
3,000.00	2,989.93	2,995.90	2,989.24	7.84	7.54	111.51	-90.23	-186.38	101.72	86.51	15.21	6.690	
3,100.00	3,089.34	3,095.74	3,088.84	8.15	7.80	113.17	-93.19	-192.73	106.42	90.68	15.74	6.762	
3,200.00	3,188.76	3,195.59	3,188.44	8.45	8.06	114.68	-96.15	-199.07	111.19	94.93	16.27	6.835	
3,300.00	3,288.17	3,295.43	3,288.04	8.75	8.33	116.07	-99.11	-205.42	116.04	99.25	16.79	6.909	
3,400.00	3,387.59	3,395.28	3,387.64	9.06	8.59	117.35	-102.08	-211.76	120.96	103.64	17.32	6.983	
3,500.00	3,487.00	3,495.12	3,487.24	9.36	8.85	118.53	-105.04	-218.11	125.92	108.08	17.84	7.057	
3,600.00	3,586.42	3,594.96	3,586.84	9.67	9.11	119.62	-108.00	-224.45	130.94	112.57	18.37	7.129	
3,700.00	3,685.83	3,694.81	3,686.43	9.97	9.38	120.62	-110.96	-230.80	136.00	117.11	18.89	7.200	
3,800.00	3,785.25	3,794.65	3,786.03	10.27	9.64	121.56	-113.92	-237.15	141.10	121.69	19.41	7.270	
3,900.00	3,884.66	3,894.50	3,885.63	10.58	9.90	122.43	-116.88	-243.49	146.23	126.31	19.93	7.338	
4,000.00	3,984.08	3,994.34	3,985.23	10.88	10.16	123.24	-119.85	-249.84	151.40	130.95	20.45	7.404	
4,100.00	4,083.49	4,094.19	4,084.83	11.19	10.43	123.99	-122.81	-256.18	156.59	135.63	20.97	7.469	
4,200.00	4,182.91	4,194.03	4,184.43	11.49	10.69	124.70	-125.77	-262.53	161.81	140.33	21.48	7.532	
4,300.00	4,282.32	4,293.87	4,284.02	11.80	10.95	125.37	-128.73	-268.87	167.06	145.05	22.00	7.593	
4,400.00	4,381.74	4,393.72	4,383.62	12.10	11.21	125.99	-131.69	-275.22	172.32	149.80	22.52	7.653	
4,500.00	4,481.15	4,493.56	4,483.22	12.41	11.47	126.58	-134.65	-281.56	177.60	154.57	23.03	7.710	
4,600.00	4,580.57	4,593.41	4,582.82	12.72	11.74	127.13	-137.61	-287.91	182.90	159.35	23.55	7.766	
4,700.00	4,679.98	4,693.25	4,682.42	13.02	12.00	127.65	-140.58	-294.26	188.22	164.15	24.07	7.821	
4,800.00	4,779.39	4,793.10	4,782.02	13.33	12.26	128.14	-143.54	-300.60	193.55	168.96	24.58	7.873	

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 OM07D
<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 OM07D	<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>	OM07D	<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 OM07C - OM07C - PLAN #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWMD												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	4,878.81	4,892.94	4,881.62	13.63	12.52	128.61	-146.50	-306.95	198.89	173.79	25.10	7.924	
5,000.00	4,978.22	4,992.79	4,981.21	13.94	12.79	129.05	-149.46	-313.29	204.25	178.63	25.61	7.974	
5,100.00	5,077.64	5,092.63	5,080.81	14.24	13.05	129.47	-152.42	-319.64	209.62	183.49	26.13	8.022	
5,200.00	5,177.05	5,192.47	5,180.41	14.55	13.31	129.87	-155.38	-325.98	214.99	188.35	26.64	8.069	
5,300.00	5,276.47	5,292.32	5,280.01	14.85	13.57	130.25	-158.35	-332.33	220.38	193.22	27.16	8.114	
5,400.00	5,375.88	5,392.16	5,379.61	15.16	13.84	130.61	-161.31	-338.68	225.78	198.11	27.67	8.158	
5,500.00	5,475.30	5,492.01	5,479.21	15.47	14.10	130.95	-164.27	-345.02	231.19	203.00	28.19	8.201	
5,600.00	5,574.71	5,591.85	5,578.81	15.77	14.36	131.28	-167.23	-351.37	236.60	207.90	28.70	8.243	
5,700.00	5,674.13	5,691.70	5,678.40	16.08	14.62	131.59	-170.19	-357.71	242.02	212.80	29.22	8.283	
5,800.00	5,773.54	5,791.54	5,778.00	16.38	14.89	131.89	-173.15	-364.06	247.45	217.72	29.73	8.322	
5,900.00	5,872.96	5,891.38	5,877.60	16.69	15.15	132.18	-176.12	-370.40	252.89	222.64	30.25	8.360	
6,000.00	5,972.37	5,991.23	5,977.20	17.00	15.41	132.45	-179.08	-376.75	258.33	227.56	30.76	8.397	
6,100.00	6,071.79	6,091.07	6,076.80	17.30	15.67	132.72	-182.04	-383.10	263.77	232.49	31.28	8.433	
6,200.00	6,171.20	6,190.92	6,176.40	17.61	15.94	132.97	-185.00	-389.44	269.22	237.43	31.79	8.468	
6,300.00	6,270.62	6,290.76	6,276.00	17.91	16.20	133.21	-187.96	-395.79	274.68	242.37	32.31	8.502	
6,400.00	6,370.03	6,390.61	6,375.59	18.22	16.46	133.44	-190.92	-402.13	280.14	247.32	32.82	8.535	
6,500.00	6,469.45	6,490.45	6,475.19	18.53	16.72	133.67	-193.88	-408.48	285.61	252.27	33.34	8.568	
6,600.00	6,568.86	6,590.30	6,574.79	18.83	16.99	133.88	-196.85	-414.82	291.08	257.23	33.85	8.599	
6,700.00	6,668.28	6,690.14	6,674.39	19.14	17.25	134.09	-199.81	-421.17	296.55	262.19	34.37	8.629	
6,800.00	6,767.69	6,789.98	6,773.99	19.45	17.51	134.29	-202.77	-427.51	302.03	267.15	34.88	8.659	
6,900.00	6,867.11	6,889.83	6,873.59	19.75	17.77	134.49	-205.73	-433.86	307.51	272.12	35.39	8.688	
7,000.00	6,966.52	6,989.67	6,973.18	20.06	18.04	134.67	-208.69	-440.21	313.00	277.09	35.91	8.716	
7,100.00	7,065.94	7,089.52	7,072.78	20.37	18.30	134.85	-211.65	-446.55	318.49	282.06	36.42	8.744	
7,200.80	7,166.15	7,190.16	7,173.18	20.67	18.56	135.03	-214.64	-452.95	324.02	287.08	36.94	8.771	
7,300.00	7,264.86	7,289.24	7,272.01	20.92	18.82	135.12	-217.58	-459.24	328.86	291.43	37.43	8.786	
7,400.00	7,364.52	7,389.17	7,371.70	21.12	19.09	135.00	-220.54	-465.60	332.51	294.62	37.90	8.774	
7,500.00	7,464.31	7,488.10	7,470.40	21.30	19.32	134.71	-223.36	-471.62	335.03	296.69	38.34	8.738	
7,600.00	7,564.19	7,586.34	7,568.52	21.47	19.50	134.46	-225.50	-476.22	336.80	298.09	38.71	8.700	
7,700.00	7,664.15	7,684.62	7,666.73	21.62	19.66	134.27	-226.93	-479.28	337.86	298.81	39.05	8.652	
7,800.00	7,764.14	7,782.91	7,765.00	21.76	19.81	134.15	-227.65	-480.82	338.22	298.85	39.36	8.593	
7,820.86	7,785.00	7,803.41	7,785.51	21.79	19.85	-8.02	-227.71	-480.95	338.20	297.53	40.67	8.315	
7,833.89	7,798.03	7,816.23	7,798.32	21.82	19.87	111.98	-227.73	-481.00	338.19	298.71	39.48	8.567	
7,900.00	7,864.14	7,883.16	7,865.25	21.94	19.99	112.02	-227.85	-481.21	338.30	298.57	39.73	8.515	
8,000.00	7,964.11	7,985.42	7,967.50	22.14	20.21	112.10	-228.76	-482.78	338.48	298.32	40.16	8.429	
8,070.86	8,034.92	8,057.89	8,039.93	22.30	20.37	112.15	-229.95	-484.85	338.60	298.12	40.48	8.364	
8,100.00	8,064.03	8,087.59	8,069.60	22.36	20.44	112.16	-230.57	-485.92	338.62	298.01	40.62	8.337	
8,200.00	8,163.94	8,187.59	8,169.51	22.59	20.68	112.16	-232.75	-489.70	338.62	297.54	41.08	8.242	
8,300.00	8,263.84	8,287.59	8,269.41	22.81	20.92	112.16	-234.93	-493.48	338.62	297.07	41.55	8.150	
8,400.00	8,363.75	8,387.59	8,369.32	23.04	21.16	112.16	-237.11	-497.25	338.62	296.61	42.02	8.059	
8,500.00	8,463.65	8,487.59	8,469.22	23.27	21.39	112.16	-239.29	-501.03	338.62	296.14	42.48	7.971	
8,600.00	8,563.56	8,587.59	8,569.13	23.49	21.63	112.16	-241.48	-504.81	338.62	295.67	42.95	7.884	
8,700.00	8,663.46	8,687.59	8,669.03	23.72	21.87	112.16	-243.66	-508.59	338.62	295.21	43.42	7.799	
8,800.00	8,763.37	8,787.59	8,768.94	23.95	22.11	112.16	-245.84	-512.37	338.62	294.74	43.89	7.716	
8,900.00	8,863.27	8,887.59	8,868.84	24.18	22.35	112.16	-248.02	-516.14	338.62	294.27	44.35	7.635	
9,000.00	8,963.18	8,987.59	8,968.75	24.40	22.58	112.16	-250.20	-519.92	338.62	293.80	44.82	7.555	
9,100.00	9,063.08	9,087.59	9,068.65	24.63	22.82	112.16	-252.38	-523.70	338.62	293.33	45.29	7.477	
9,200.00	9,162.99	9,187.59	9,168.56	24.86	23.06	112.16	-254.56	-527.48	338.62	292.87	45.76	7.400	
9,300.00	9,262.89	9,287.59	9,268.46	25.09	23.30	112.16	-256.74	-531.25	338.62	292.40	46.23	7.325	
9,400.00	9,362.80	9,387.59	9,368.37	25.32	23.54	112.16	-258.92	-535.03	338.62	291.93	46.69	7.252	
9,500.00	9,462.70	9,487.59	9,468.27	25.55	23.78	112.16	-261.10	-538.81	338.62	291.46	47.16	7.180	
9,600.00	9,562.61	9,587.59	9,568.18	25.78	24.02	112.16	-263.29	-542.59	338.62	290.99	47.63	7.109	
9,700.00	9,662.51	9,687.59	9,668.08	26.01	24.25	112.16	-265.47	-546.36	338.62	290.52	48.10	7.040	

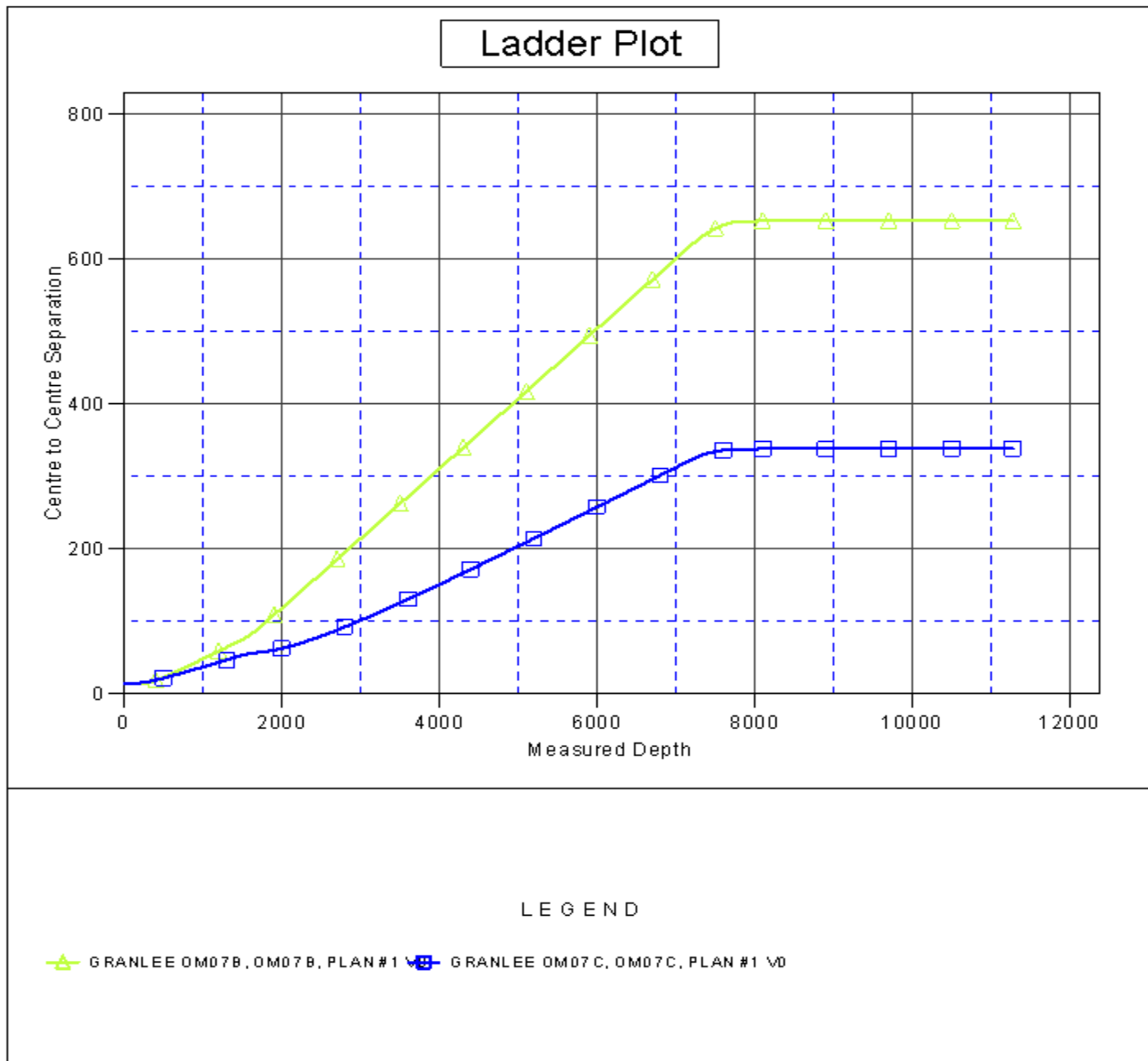
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<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>	OM07D	<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 OM07C - OM07C - 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						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	
9,800.00	9,762.42	9,787.59	9,767.99	26.24	24.49	112.16	-267.65	-550.14	338.62	290.05	48.57	6.972	
9,900.00	9,862.32	9,887.59	9,867.89	26.47	24.73	112.16	-269.83	-553.92	338.62	289.58	49.04	6.905	
10,000.00	9,962.22	9,987.59	9,967.80	26.70	24.97	112.16	-272.01	-557.70	338.62	289.11	49.51	6.840	
10,100.00	10,062.13	10,087.59	10,067.70	26.93	25.21	112.16	-274.19	-561.47	338.62	288.65	49.98	6.775	
10,200.00	10,162.03	10,187.59	10,167.61	27.16	25.45	112.16	-276.37	-565.25	338.62	288.18	50.45	6.712	
10,300.00	10,261.94	10,287.59	10,267.51	27.39	25.69	112.16	-278.55	-569.03	338.62	287.71	50.92	6.650	
10,400.00	10,361.84	10,387.59	10,367.41	27.62	25.93	112.16	-280.73	-572.81	338.62	287.24	51.39	6.590	
10,500.00	10,461.75	10,487.59	10,467.32	27.85	26.17	112.16	-282.91	-576.58	338.62	286.77	51.86	6.530	
10,600.00	10,561.65	10,587.59	10,567.22	28.08	26.40	112.16	-285.10	-580.36	338.62	286.30	52.33	6.471	
10,700.00	10,661.56	10,687.59	10,667.13	28.31	26.64	112.16	-287.28	-584.14	338.62	285.83	52.80	6.414	
10,800.00	10,761.46	10,787.59	10,767.03	28.54	26.88	112.16	-289.46	-587.92	338.62	285.35	53.27	6.357	
10,900.00	10,861.37	10,887.59	10,866.94	28.77	27.12	112.16	-291.64	-591.69	338.62	284.88	53.74	6.301	
11,000.00	10,961.27	10,987.59	10,966.84	29.01	27.36	112.16	-293.82	-595.47	338.62	284.41	54.21	6.247	
11,100.00	11,061.18	11,087.59	11,066.75	29.24	27.60	112.16	-296.00	-599.25	338.62	283.94	54.68	6.193	
11,200.00	11,161.08	11,187.59	11,166.65	29.47	27.84	112.16	-298.18	-603.03	338.62	283.47	55.15	6.140	
11,273.99	11,235.00	11,261.58	11,240.57	29.64	28.02	112.16	-299.79	-605.82	338.62	283.12	55.50	6.101 SF	

<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<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>	OM07D	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

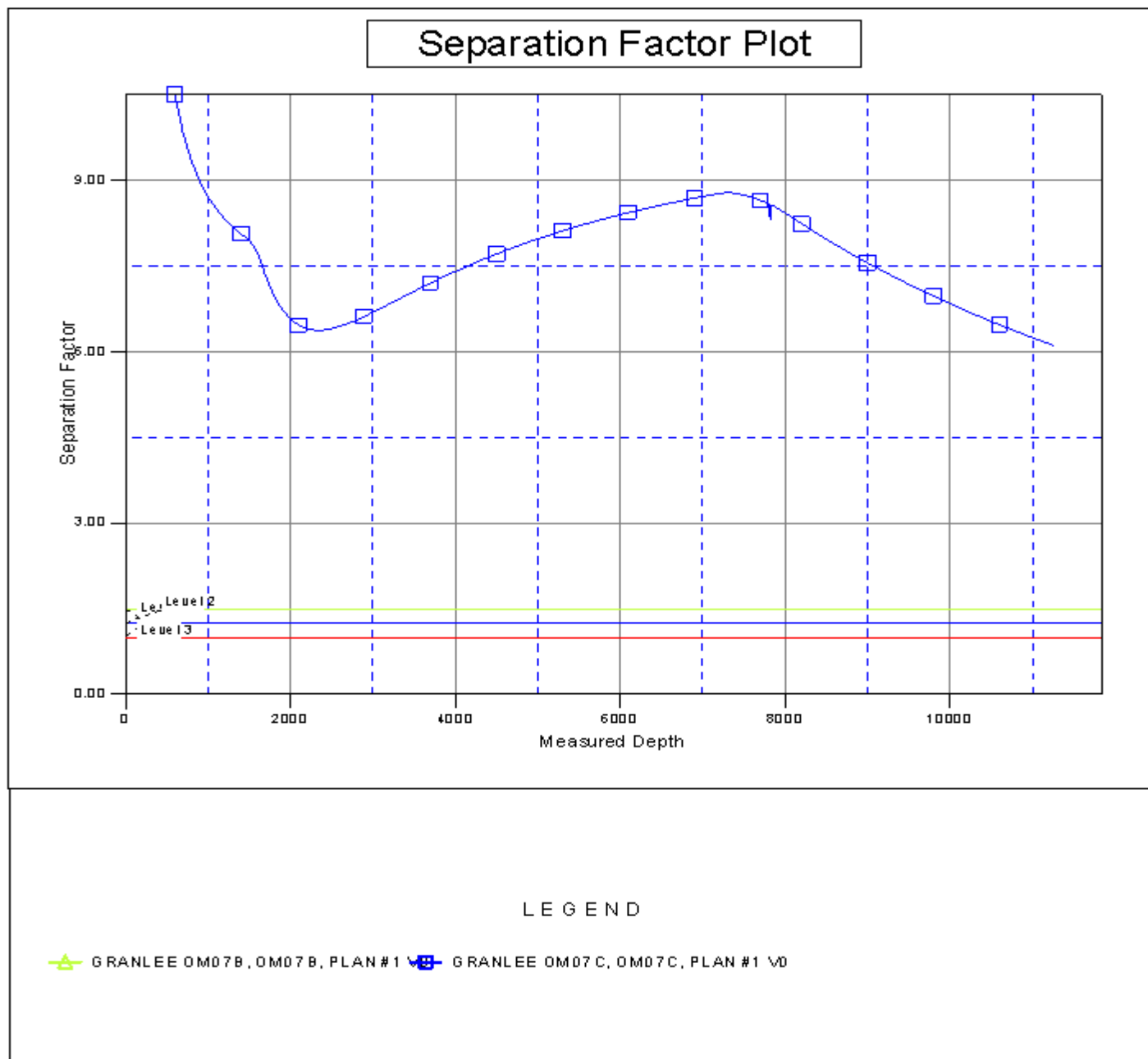
Reference Depths are relative to WELL @ 8185.50ft (Original Well Elev) Coordinates are relative to: GRANLEE OM07D  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Central Zone  
Central Meridian is 105° 30' 0.0000 W ° Grid Convergence at Surface is: -1.63°





<b>Company:</b>	BERRY PETROLEUM COMPANY	<b>Local Co-ordinate Reference:</b>	Well GRANLEE OM07D
<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 OM07D	<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>	OM07D	<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 OM07D  
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°







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