



Berry Petroleum Company

BERRY PETROLEUM COMPANY

GARFIELD COUNTY, COLORADO

OM G03 696 PAD

GRANLEE OM07B

OM07B

Plan: PLAN #1

Standard Planning Report

08 September, 2008



Weatherford®



Berry Petroleum Company

GRANLEE OM07B
GARFIELD COUNTY, COLORADO
SECTION 3-T6S-R96W
1981 FNL, 1613 FEL
39° 33' 27.400 N
108° 5' 30.4200 W



Weatherford®

WELL DETAILS: GRANLEE OM07B

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1638411.62	2269336.89	8163.50	39° 33' 27.400 N	108° 5' 30.4200 W	

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_OM07B-G03-695	11295.00	51.62	-507.52	1638477.69	2268831.05	39° 33' 27.910 N	108° 5' 36.9000 W	Rectangle (Sides: L100.00 W200.00)

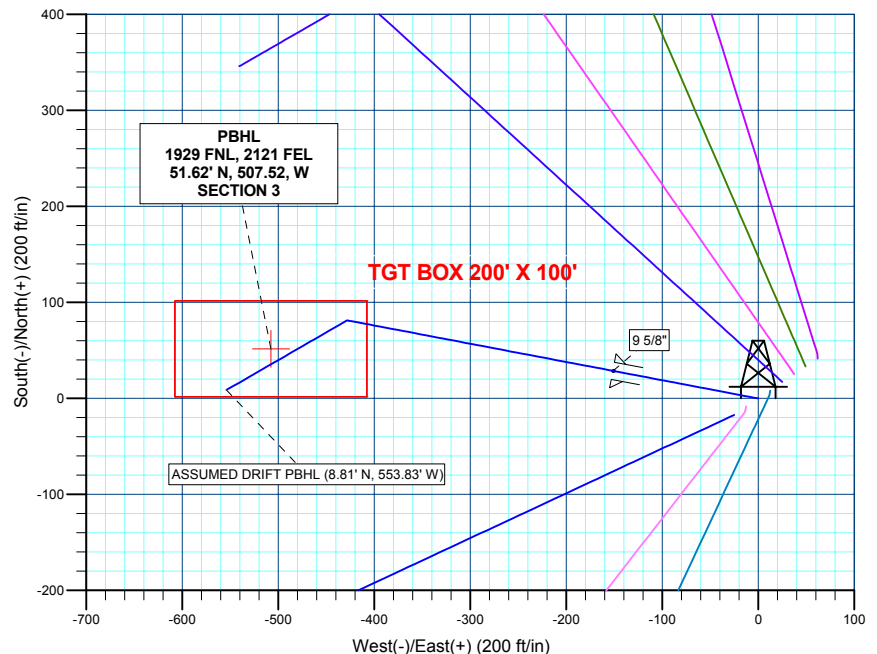
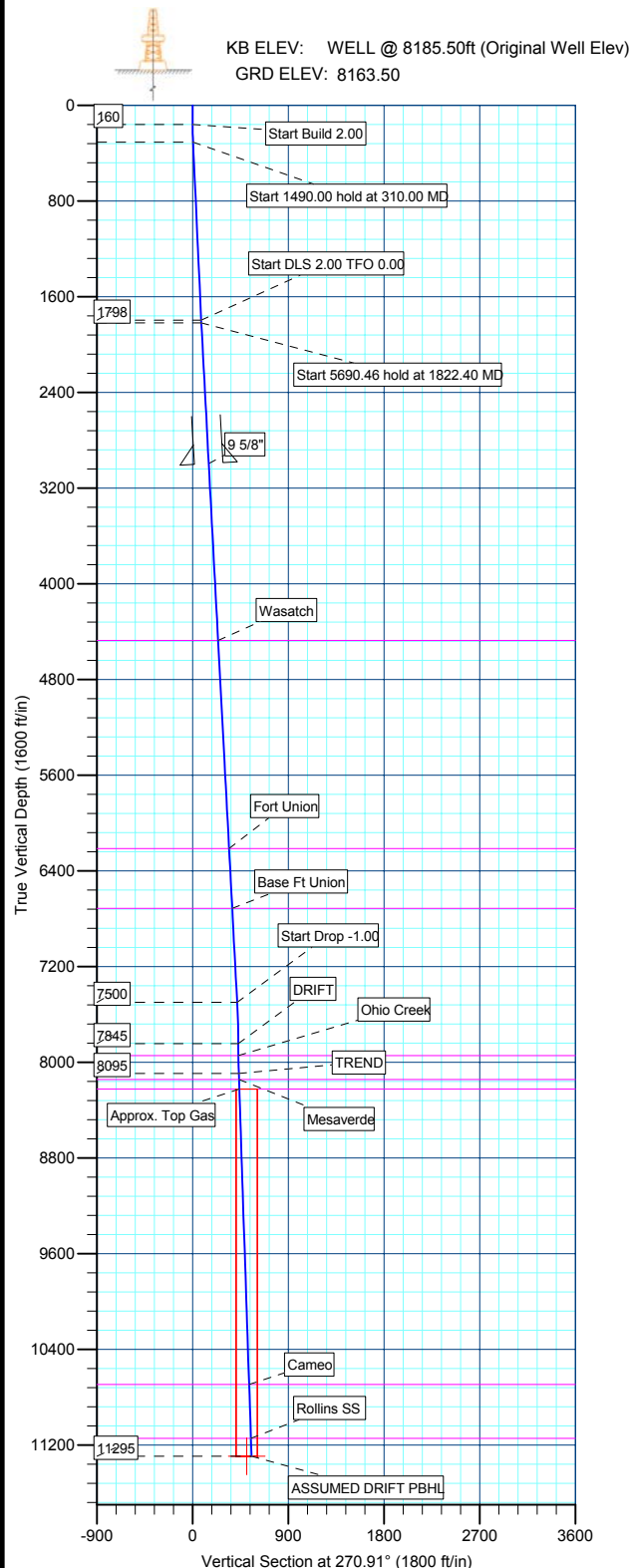
SECTION DETAILS

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	280.77	309.93	0.73	-3.86	2.00	280.77	3.87	
4	1800.00	3.00	280.77	1797.89	15.30	-80.47	0.00	0.00	80.70	
5	1822.40	3.45	280.77	1820.25	15.54	-81.70	2.00	0.00	81.94	
6	7512.86	3.45	280.77	7500.41	79.46	-417.92	0.00	0.00	419.13	
7	7857.65	0.00	0.00	7845.00	81.40	-428.11	1.00	180.00	429.35	
8	8107.65	2.50	240.00	8094.92	78.67	-432.83	1.00	240.00	434.03	
9	11310.78	2.50	240.00	11295.00	8.81	-553.83	0.00	0.00	553.90	PBHL_OM07B-G03-695



Azimuths to True North
Magnetic North: 10.79°

Magnetic Field
Strength: 52522.0snT
Dip Angle: 65.85°
Date: 9/8/2008
Model: BGGM2007



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4475.00	4481.96	Wasatch
6215.00	6225.12	Fort Union
6715.00	6726.02	Base Ft Union
7945.00	7957.66	Ohio Creek
8145.00	8157.78	Mesaverde
8225.00	8237.86	Approx. Top Gas
10695.00	10710.21	Cameo
11145.00	11160.64	Rollins SS

Plan: PLAN #1 (GRANLEE OM07B/OM07B)

Created By: Robert H. Scott



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GRANLEE OM07B
Company:	BERRY PETROLEUM COMPANY	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site:	OM G03 696 PAD	North Reference:	True
Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07B		
Design:	PLAN #1		

Project	GARFIELD COUNTY, COLORADO, COLORADO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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 OM07B					
Well Position	+N-S	17.19 ft	Northing:	1,638,411.62 ft	Latitude:	39° 33' 27.400 N
	+E-W	25.06 ft	Easting:	2,269,336.89 ft	Longitude:	108° 5' 30.4200 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,163.50 ft

Wellbore	OM07B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	9/8/2008	10.79	65.85	52,522

Design	PLAN #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	270.91	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	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	280.77	309.93	0.73	-3.86	2.00	2.00	0.00	280.77	
1,800.00	3.00	280.77	1,797.89	15.30	-80.47	0.00	0.00	0.00	0.00	
1,822.40	3.45	280.77	1,820.25	15.54	-81.70	2.00	2.00	0.00	0.00	
7,512.86	3.45	280.77	7,500.41	79.46	-417.92	0.00	0.00	0.00	0.00	
7,857.65	0.00	0.00	7,845.00	81.40	-428.11	1.00	-1.00	0.00	180.00	
8,107.65	2.50	240.00	8,094.92	78.67	-432.83	1.00	1.00	0.00	240.00	
11,310.78	2.50	240.00	11,295.00	8.81	-553.83	0.00	0.00	0.00	0.00	PBHL_OM07B-G03



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Company:	BERRY PETROLEUM COMPANY	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site:	OM G03 696 PAD	North Reference:	True
Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07B		
Design:	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
Start Build 2.00									
200.00	0.80	280.77	200.00	0.05	-0.27	0.28	2.00	2.00	0.00
300.00	2.80	280.77	299.94	0.64	-3.36	3.37	2.00	2.00	0.00
310.00	3.00	280.77	309.93	0.73	-3.86	3.87	2.00	2.00	0.00
Start 1490.00 hold at 310.00 MD									
400.00	3.00	280.77	399.81	1.61	-8.48	8.51	0.00	0.00	0.00
500.00	3.00	280.77	499.67	2.59	-13.63	13.67	0.00	0.00	0.00
600.00	3.00	280.77	599.53	3.57	-18.77	18.82	0.00	0.00	0.00
700.00	3.00	280.77	699.40	4.55	-23.91	23.98	0.00	0.00	0.00
800.00	3.00	280.77	799.26	5.52	-29.05	29.13	0.00	0.00	0.00
900.00	3.00	280.77	899.12	6.50	-34.19	34.29	0.00	0.00	0.00
1,000.00	3.00	280.77	998.99	7.48	-39.33	39.45	0.00	0.00	0.00
1,100.00	3.00	280.77	1,098.85	8.46	-44.47	44.60	0.00	0.00	0.00
1,200.00	3.00	280.77	1,198.71	9.43	-49.62	49.76	0.00	0.00	0.00
1,300.00	3.00	280.77	1,298.57	10.41	-54.76	54.92	0.00	0.00	0.00
1,400.00	3.00	280.77	1,398.44	11.39	-59.90	60.07	0.00	0.00	0.00
1,500.00	3.00	280.77	1,498.30	12.37	-65.04	65.23	0.00	0.00	0.00
1,600.00	3.00	280.77	1,598.16	13.34	-70.18	70.39	0.00	0.00	0.00
1,700.00	3.00	280.77	1,698.03	14.32	-75.32	75.54	0.00	0.00	0.00
1,800.00	3.00	280.77	1,797.89	15.30	-80.47	80.70	0.00	0.00	0.00
Start DLS 2.00 TFO 0.00									
1,822.40	3.45	280.77	1,820.25	15.54	-81.70	81.94	2.00	2.00	0.00
Start 5690.46 hold at 1822.40 MD									
1,900.00	3.45	280.77	1,897.71	16.41	-86.29	86.54	0.00	0.00	0.00
2,000.00	3.45	280.77	1,997.53	17.53	-92.20	92.46	0.00	0.00	0.00
2,100.00	3.45	280.77	2,097.35	18.65	-98.10	98.39	0.00	0.00	0.00
2,200.00	3.45	280.77	2,197.17	19.78	-104.01	104.31	0.00	0.00	0.00
2,300.00	3.45	280.77	2,296.99	20.90	-109.92	110.24	0.00	0.00	0.00
2,400.00	3.45	280.77	2,396.81	22.02	-115.83	116.17	0.00	0.00	0.00
2,500.00	3.45	280.77	2,496.63	23.15	-121.74	122.09	0.00	0.00	0.00
2,600.00	3.45	280.77	2,596.45	24.27	-127.65	128.02	0.00	0.00	0.00
2,700.00	3.45	280.77	2,696.27	25.39	-133.55	133.94	0.00	0.00	0.00
2,800.00	3.45	280.77	2,796.08	26.52	-139.46	139.87	0.00	0.00	0.00
2,900.00	3.45	280.77	2,895.90	27.64	-145.37	145.79	0.00	0.00	0.00
3,000.00	3.45	280.77	2,995.72	28.76	-151.28	151.72	0.00	0.00	0.00
9 5/8"									
3,100.00	3.45	280.77	3,095.54	29.89	-157.19	157.64	0.00	0.00	0.00
3,200.00	3.45	280.77	3,195.36	31.01	-163.10	163.57	0.00	0.00	0.00
3,300.00	3.45	280.77	3,295.18	32.13	-169.01	169.49	0.00	0.00	0.00
3,400.00	3.45	280.77	3,395.00	33.26	-174.91	175.42	0.00	0.00	0.00
3,500.00	3.45	280.77	3,494.82	34.38	-180.82	181.35	0.00	0.00	0.00
3,600.00	3.45	280.77	3,594.64	35.50	-186.73	187.27	0.00	0.00	0.00
3,700.00	3.45	280.77	3,694.46	36.63	-192.64	193.20	0.00	0.00	0.00
3,800.00	3.45	280.77	3,794.27	37.75	-198.55	199.12	0.00	0.00	0.00
3,900.00	3.45	280.77	3,894.09	38.87	-204.46	205.05	0.00	0.00	0.00
4,000.00	3.45	280.77	3,993.91	40.00	-210.36	210.97	0.00	0.00	0.00
4,100.00	3.45	280.77	4,093.73	41.12	-216.27	216.90	0.00	0.00	0.00
4,200.00	3.45	280.77	4,193.55	42.25	-222.18	222.82	0.00	0.00	0.00
4,300.00	3.45	280.77	4,293.37	43.37	-228.09	228.75	0.00	0.00	0.00
4,400.00	3.45	280.77	4,393.19	44.49	-234.00	234.68	0.00	0.00	0.00
4,481.96	3.45	280.77	4,475.00	45.41	-238.84	239.53	0.00	0.00	0.00
Wasatch									



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Site:	OM G03 696 PAD	North Reference:	True
Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07B		
Design:	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)
4,500.00	3.45	280.77	4,493.01	45.62	-239.91	240.60	0.00	0.00	0.00
4,600.00	3.45	280.77	4,592.83	46.74	-245.81	246.53	0.00	0.00	0.00
4,700.00	3.45	280.77	4,692.64	47.86	-251.72	252.45	0.00	0.00	0.00
4,800.00	3.45	280.77	4,792.46	48.99	-257.63	258.38	0.00	0.00	0.00
4,900.00	3.45	280.77	4,892.28	50.11	-263.54	264.30	0.00	0.00	0.00
5,000.00	3.45	280.77	4,992.10	51.23	-269.45	270.23	0.00	0.00	0.00
5,100.00	3.45	280.77	5,091.92	52.36	-275.36	276.15	0.00	0.00	0.00
5,200.00	3.45	280.77	5,191.74	53.48	-281.26	282.08	0.00	0.00	0.00
5,300.00	3.45	280.77	5,291.56	54.60	-287.17	288.01	0.00	0.00	0.00
5,400.00	3.45	280.77	5,391.38	55.73	-293.08	293.93	0.00	0.00	0.00
5,500.00	3.45	280.77	5,491.20	56.85	-298.99	299.86	0.00	0.00	0.00
5,600.00	3.45	280.77	5,591.02	57.97	-304.90	305.78	0.00	0.00	0.00
5,700.00	3.45	280.77	5,690.83	59.10	-310.81	311.71	0.00	0.00	0.00
5,800.00	3.45	280.77	5,790.65	60.22	-316.72	317.63	0.00	0.00	0.00
5,900.00	3.45	280.77	5,890.47	61.34	-322.62	323.56	0.00	0.00	0.00
6,000.00	3.45	280.77	5,990.29	62.47	-328.53	329.48	0.00	0.00	0.00
6,100.00	3.45	280.77	6,090.11	63.59	-334.44	335.41	0.00	0.00	0.00
6,200.00	3.45	280.77	6,189.93	64.71	-340.35	341.34	0.00	0.00	0.00
6,225.12	3.45	280.77	6,215.00	65.00	-341.83	342.82	0.00	0.00	0.00
Fort Union									
6,300.00	3.45	280.77	6,289.75	65.84	-346.26	347.26	0.00	0.00	0.00
6,400.00	3.45	280.77	6,389.57	66.96	-352.17	353.19	0.00	0.00	0.00
6,500.00	3.45	280.77	6,489.39	68.08	-358.07	359.11	0.00	0.00	0.00
6,600.00	3.45	280.77	6,589.21	69.21	-363.98	365.04	0.00	0.00	0.00
6,700.00	3.45	280.77	6,689.02	70.33	-369.89	370.96	0.00	0.00	0.00
6,726.02	3.45	280.77	6,715.00	70.62	-371.43	372.50	0.00	0.00	0.00
Base Ft Union									
6,800.00	3.45	280.77	6,788.84	71.45	-375.80	376.89	0.00	0.00	0.00
6,900.00	3.45	280.77	6,888.66	72.58	-381.71	382.81	0.00	0.00	0.00
7,000.00	3.45	280.77	6,988.48	73.70	-387.62	388.74	0.00	0.00	0.00
7,100.00	3.45	280.77	7,088.30	74.82	-393.52	394.66	0.00	0.00	0.00
7,200.00	3.45	280.77	7,188.12	75.95	-399.43	400.59	0.00	0.00	0.00
7,300.00	3.45	280.77	7,287.94	77.07	-405.34	406.52	0.00	0.00	0.00
7,400.00	3.45	280.77	7,387.76	78.19	-411.25	412.44	0.00	0.00	0.00
7,500.00	3.45	280.77	7,487.58	79.32	-417.16	418.37	0.00	0.00	0.00
7,512.86	3.45	280.77	7,500.41	79.46	-417.92	419.13	0.00	0.00	0.00
Start Drop -1.00									
7,600.00	2.58	280.77	7,587.43	80.32	-422.42	423.64	1.00	-1.00	0.00
7,700.00	1.58	280.77	7,687.36	80.99	-425.98	427.21	1.00	-1.00	0.00
7,800.00	0.58	280.77	7,787.35	81.34	-427.82	429.06	1.00	-1.00	0.00
7,857.65	0.00	0.00	7,845.00	81.40	-428.11	429.35	1.00	-1.00	0.00
DRIFT									
7,900.00	0.42	240.00	7,887.34	81.32	-428.24	429.48	1.00	1.00	0.00
7,957.66	1.00	240.00	7,945.00	80.96	-428.86	430.10	1.00	1.00	0.00
Ohio Creek									
8,000.00	1.42	240.00	7,987.33	80.51	-429.64	430.86	1.00	1.00	0.00
8,100.00	2.42	240.00	8,087.27	78.84	-432.54	433.74	1.00	1.00	0.00
8,107.65	2.50	240.00	8,094.92	78.67	-432.83	434.03	1.00	1.00	0.00
TREND									
8,157.78	2.50	240.00	8,145.00	77.58	-434.72	435.90	0.00	0.00	0.00
Mesaverde									
8,200.00	2.50	240.00	8,187.18	76.66	-436.32	437.48	0.00	0.00	0.00
8,237.86	2.50	240.00	8,225.00	75.83	-437.75	438.90	0.00	0.00	0.00



Berry Petroleum Company

Weatherford International Ltd.

Planning Report



Weatherford

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GRANLEE OM07B
Company:	BERRY PETROLEUM COMPANY	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
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Site:	OM G03 696 PAD	North Reference:	True
Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07B		
Design:	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)
Approx. Top Gas									
8,300.00	2.50	240.00	8,287.08	74.48	-440.10	441.22	0.00	0.00	0.00
8,400.00	2.50	240.00	8,386.99	72.30	-443.87	444.97	0.00	0.00	0.00
8,500.00	2.50	240.00	8,486.89	70.12	-447.65	448.71	0.00	0.00	0.00
8,600.00	2.50	240.00	8,586.80	67.93	-451.43	452.45	0.00	0.00	0.00
8,700.00	2.50	240.00	8,686.70	65.75	-455.21	456.19	0.00	0.00	0.00
8,800.00	2.50	240.00	8,786.61	63.57	-458.98	459.94	0.00	0.00	0.00
8,900.00	2.50	240.00	8,886.51	61.39	-462.76	463.68	0.00	0.00	0.00
9,000.00	2.50	240.00	8,986.42	59.21	-466.54	467.42	0.00	0.00	0.00
9,100.00	2.50	240.00	9,086.32	57.03	-470.32	471.16	0.00	0.00	0.00
9,200.00	2.50	240.00	9,186.23	54.85	-474.09	474.91	0.00	0.00	0.00
9,300.00	2.50	240.00	9,286.13	52.67	-477.87	478.65	0.00	0.00	0.00
9,400.00	2.50	240.00	9,386.04	50.49	-481.65	482.39	0.00	0.00	0.00
9,500.00	2.50	240.00	9,485.94	48.31	-485.43	486.13	0.00	0.00	0.00
9,600.00	2.50	240.00	9,585.85	46.12	-489.20	489.88	0.00	0.00	0.00
9,700.00	2.50	240.00	9,685.75	43.94	-492.98	493.62	0.00	0.00	0.00
9,800.00	2.50	240.00	9,785.65	41.76	-496.76	497.36	0.00	0.00	0.00
9,900.00	2.50	240.00	9,885.56	39.58	-500.54	501.10	0.00	0.00	0.00
10,000.00	2.50	240.00	9,985.46	37.40	-504.31	504.84	0.00	0.00	0.00
10,100.00	2.50	240.00	10,085.37	35.22	-508.09	508.59	0.00	0.00	0.00
10,200.00	2.50	240.00	10,185.27	33.04	-511.87	512.33	0.00	0.00	0.00
10,300.00	2.50	240.00	10,285.18	30.86	-515.65	516.07	0.00	0.00	0.00
10,400.00	2.50	240.00	10,385.08	28.68	-519.42	519.81	0.00	0.00	0.00
10,500.00	2.50	240.00	10,484.99	26.50	-523.20	523.56	0.00	0.00	0.00
10,600.00	2.50	240.00	10,584.89	24.32	-526.98	527.30	0.00	0.00	0.00
10,700.00	2.50	240.00	10,684.80	22.13	-530.76	531.04	0.00	0.00	0.00
10,710.21	2.50	240.00	10,695.00	21.91	-531.14	531.42	0.00	0.00	0.00
Cameo									
10,800.00	2.50	240.00	10,784.70	19.95	-534.53	534.78	0.00	0.00	0.00
10,900.00	2.50	240.00	10,884.61	17.77	-538.31	538.53	0.00	0.00	0.00
11,000.00	2.50	240.00	10,984.51	15.59	-542.09	542.27	0.00	0.00	0.00
11,100.00	2.50	240.00	11,084.42	13.41	-545.87	546.01	0.00	0.00	0.00
11,160.64	2.50	240.00	11,145.00	12.09	-548.16	548.28	0.00	0.00	0.00
Rollins SS									
11,200.00	2.50	240.00	11,184.32	11.23	-549.64	549.75	0.00	0.00	0.00
11,300.00	2.50	240.00	11,284.23	9.05	-553.42	553.50	0.00	0.00	0.00
11,308.10	2.50	240.00	11,292.32	8.87	-553.73	553.80	0.00	0.00	0.00
PBHL_OM07B-G03-695									
11,310.78	2.50	240.00	11,295.00	8.81	-553.83	553.90	0.00	0.00	0.00
ASSUMED DRIFT PBHL									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,000.00	2,995.72	9 5/8"	9.62	12.25



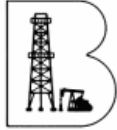
Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GRANLEE OM07B
Company:	BERRY PETROLEUM COMPANY	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site:	OM G03 696 PAD	North Reference:	True
Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07B		
Design:	PLAN #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,481.96	4,475.00	Wasatch		0.00	
6,225.12	6,215.00	Fort Union		0.00	
6,726.02	6,715.00	Base Ft Union		0.00	
7,957.66	7,945.00	Ohio Creek		0.00	
8,157.78	8,145.00	Mesaverde		0.00	
8,237.86	8,225.00	Approx. Top Gas		0.00	
10,710.21	10,695.00	Cameo		0.00	
11,160.64	11,145.00	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	0.73	-3.86	Start 1490.00 hold at 310.00 MD
1,800.00	1,797.89	15.30	-80.47	Start DLS 2.00 TFO 0.00
1,822.40	1,820.25	15.54	-81.70	Start 5690.46 hold at 1822.40 MD
7,512.86	7,500.41	79.46	-417.92	Start Drop -1.00
7,857.65	7,845.00	81.40	-428.11	DRIFT
8,107.65	8,094.92	78.67	-432.83	TREND
11,310.78	11,295.00	8.81	-553.83	ASSUMED DRIFT PBHL



Berry Petroleum Company

BERRY PETROLEUM COMPANY

**GARFIELD COUNTY, COLORADO
OM G03 696 PAD
GRANLEE OM07B**

**OM07B
PLAN #1**

Anticollision Report

08 September, 2008



Weatherford®

Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07B
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07B	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program			Date	9/8/2008	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	11,310.78	PLAN #1 (OM07B)	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 OM07D - OM07D - PLAN #1	205.68	205.51	14.91	14.27	23.446	CC, ES
GRANLEE OM07D - OM07D - PLAN #1	1,500.00	1,497.41	75.29	68.56	11.192	SF
GRANLEE OM10B - OM10B - PLAN #1	160.00	160.00	14.92	14.48	33.527	CC
GRANLEE OM10B - OM10B - PLAN #1	200.00	200.14	14.94	14.33	24.421	ES
GRANLEE OM10B - OM10B - PLAN #1	600.00	599.92	27.77	25.35	11.490	SF

Offset Design OM G03 696 PAD - GRANLEE OM07D - OM07D - 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	-122.86	-8.09	-12.53	14.92				
100.00	100.00	100.00	100.00	0.09	0.09	-122.86	-8.09	-12.53	14.92	14.74	0.18	85.092	
160.00	160.00	160.00	160.00	0.22	0.22	-122.86	-8.09	-12.53	14.92	14.47	0.45	33.521	
200.00	200.00	199.85	199.85	0.31	0.30	-45.14	-8.37	-12.58	14.91	14.30	0.61	24.402	
205.68	205.67	205.51	205.51	0.32	0.31	-45.61	-8.45	-12.59	14.91	14.27	0.64	23.446	CC, ES
310.00	309.93	309.26	309.20	0.55	0.53	-64.22	-11.92	-13.21	15.75	14.68	1.08	14.647	
400.00	399.81	399.05	398.86	0.76	0.73	-79.66	-16.08	-15.26	18.97	17.49	1.49	12.771	
500.00	499.67	498.90	498.57	1.00	0.96	-88.63	-20.21	-18.47	23.33	21.39	1.95	11.988	
600.00	599.53	598.75	598.29	1.24	1.20	-94.67	-24.33	-21.68	28.08	25.67	2.42	11.625	
700.00	699.40	698.60	698.00	1.49	1.45	-98.93	-28.46	-24.89	33.05	30.16	2.89	11.439	
800.00	799.26	798.45	797.71	1.73	1.69	-102.07	-32.59	-28.09	38.15	34.79	3.37	11.336	
900.00	899.12	898.30	897.43	1.97	1.93	-104.46	-36.71	-31.30	43.34	39.50	3.84	11.277	
1,000.00	998.99	998.15	997.14	2.22	2.18	-106.34	-40.84	-34.51	48.59	44.27	4.32	11.241	
1,100.00	1,098.85	1,098.00	1,096.86	2.46	2.43	-107.85	-44.96	-37.71	53.88	49.08	4.80	11.220	
1,200.00	1,198.71	1,197.86	1,196.57	2.71	2.67	-109.09	-49.09	-40.92	59.21	53.92	5.28	11.208	
1,300.00	1,298.57	1,297.71	1,296.28	2.95	2.92	-110.13	-53.22	-44.13	64.55	58.79	5.76	11.200	
1,400.00	1,398.44	1,397.56	1,396.00	3.20	3.17	-111.00	-57.34	-47.33	69.91	63.67	6.25	11.195	
1,500.00	1,498.30	1,497.41	1,495.71	3.44	3.41	-111.75	-61.47	-50.54	75.29	68.56	6.73	11.192	SF
1,600.00	1,598.16	1,595.48	1,593.55	3.69	3.67	-111.54	-66.77	-54.66	81.74	74.53	7.21	11.335	
1,700.00	1,698.03	1,693.81	1,691.37	3.93	3.94	-109.85	-74.59	-60.74	90.34	82.64	7.71	11.723	
1,800.00	1,797.89	1,793.34	1,790.33	4.18	4.23	-108.13	-83.08	-67.33	99.54	91.33	8.20	12.132	
1,822.40	1,820.25	1,815.64	1,812.49	4.23	4.30	-107.79	-84.98	-68.81	101.63	93.32	8.32	12.221	

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

Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07B
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07B	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM07D - OM07D - 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	1,897.71	1,892.87	1,889.28	4.43	4.53	-107.01	-91.57	-73.93	109.00	100.30	8.71	12.518	
2,000.00	1,997.53	1,992.40	1,988.22	4.68	4.82	-106.14	-100.05	-80.53	118.53	109.32	9.21	12.866	
2,100.00	2,097.35	2,091.93	2,087.17	4.93	5.12	-105.41	-108.54	-87.13	128.07	118.36	9.72	13.180	
2,200.00	2,197.17	2,191.47	2,186.12	5.18	5.41	-104.77	-117.03	-93.72	137.64	127.42	10.22	13.464	
2,300.00	2,296.99	2,291.00	2,285.07	5.43	5.71	-104.22	-125.52	-100.32	147.22	136.49	10.73	13.723	
2,400.00	2,396.81	2,390.53	2,384.02	5.68	6.01	-103.74	-134.01	-106.92	156.81	145.57	11.23	13.959	
2,500.00	2,496.63	2,490.06	2,482.97	5.93	6.31	-103.31	-142.49	-113.51	166.41	154.67	11.74	14.175	
2,600.00	2,596.45	2,589.59	2,581.91	6.18	6.60	-102.93	-150.98	-120.11	176.02	163.77	12.25	14.374	
2,700.00	2,696.27	2,689.12	2,680.86	6.43	6.90	-102.58	-159.47	-126.71	185.63	172.88	12.75	14.557	
2,800.00	2,796.08	2,788.65	2,779.81	6.68	7.21	-102.28	-167.96	-133.31	195.25	181.99	13.26	14.727	
2,900.00	2,895.90	2,888.18	2,878.76	6.93	7.51	-102.00	-176.45	-139.90	204.88	191.11	13.77	14.884	
3,000.00	2,995.72	2,987.71	2,977.71	7.18	7.81	-101.74	-184.93	-146.50	214.51	200.24	14.27	15.030	
3,100.00	3,095.54	3,087.24	3,076.66	7.43	8.11	-101.51	-193.42	-153.10	224.14	209.37	14.78	15.167	
3,200.00	3,195.36	3,186.77	3,175.61	7.68	8.41	-101.30	-201.91	-159.69	233.78	218.50	15.29	15.295	
3,300.00	3,295.18	3,286.30	3,274.55	7.94	8.71	-101.10	-210.40	-166.29	243.42	227.63	15.79	15.414	
3,400.00	3,395.00	3,385.84	3,373.50	8.19	9.01	-100.92	-218.89	-172.89	253.07	236.77	16.30	15.526	
3,500.00	3,494.82	3,485.37	3,472.45	8.44	9.32	-100.75	-227.38	-179.48	262.71	245.91	16.81	15.632	
3,600.00	3,594.64	3,584.90	3,571.40	8.69	9.62	-100.59	-235.86	-186.08	272.36	255.05	17.31	15.731	
3,700.00	3,694.46	3,684.43	3,670.35	8.94	9.92	-100.45	-244.35	-192.68	282.01	264.19	17.82	15.825	
3,800.00	3,794.27	3,783.96	3,769.30	9.19	10.23	-100.31	-252.84	-199.28	291.66	273.34	18.33	15.913	
3,900.00	3,894.09	3,883.49	3,868.25	9.44	10.53	-100.18	-261.33	-205.87	301.32	282.48	18.84	15.997	
4,000.00	3,993.91	3,983.02	3,967.19	9.69	10.83	-100.07	-269.82	-212.47	310.97	291.63	19.34	16.077	
4,100.00	4,093.73	4,082.55	4,066.14	9.94	11.14	-99.95	-278.30	-219.07	320.63	300.78	19.85	16.152	
4,200.00	4,193.55	4,182.08	4,165.09	10.20	11.44	-99.85	-286.79	-225.66	330.28	309.93	20.36	16.224	
4,300.00	4,293.37	4,281.61	4,264.04	10.45	11.74	-99.75	-295.28	-232.26	339.94	319.08	20.87	16.292	
4,400.00	4,393.19	4,381.14	4,362.99	10.70	12.05	-99.65	-303.77	-238.86	349.60	328.23	21.37	16.357	
4,500.00	4,493.01	4,480.67	4,461.94	10.95	12.35	-99.56	-312.26	-245.45	359.26	337.38	21.88	16.419	
4,600.00	4,592.83	4,580.21	4,560.89	11.20	12.65	-99.48	-320.74	-252.05	368.92	346.53	22.39	16.478	
4,700.00	4,692.64	4,679.74	4,659.83	11.45	12.96	-99.40	-329.23	-258.65	378.58	355.69	22.90	16.535	
4,800.00	4,792.46	4,779.27	4,758.78	11.70	13.26	-99.32	-337.72	-265.25	388.25	364.84	23.40	16.589	
4,900.00	4,892.28	4,878.80	4,857.73	11.95	13.57	-99.25	-346.21	-271.84	397.91	374.00	23.91	16.641	
5,000.00	4,992.10	4,978.33	4,956.68	12.20	13.87	-99.18	-354.70	-278.44	407.57	383.15	24.42	16.691	
5,100.00	5,091.92	5,077.86	5,055.63	12.46	14.18	-99.12	-363.19	-285.04	417.24	392.31	24.93	16.738	
5,200.00	5,191.74	5,177.39	5,154.58	12.71	14.48	-99.05	-371.67	-291.63	426.90	401.46	25.43	16.784	
5,300.00	5,291.56	5,276.92	5,253.53	12.96	14.78	-98.99	-380.16	-298.23	436.56	410.62	25.94	16.828	
5,400.00	5,391.38	5,376.45	5,352.47	13.21	15.09	-98.94	-388.65	-304.83	446.23	419.78	26.45	16.871	
5,500.00	5,491.20	5,475.98	5,451.42	13.46	15.39	-98.88	-397.14	-311.42	455.90	428.94	26.96	16.911	
5,600.00	5,591.02	5,575.51	5,550.37	13.71	15.70	-98.83	-405.63	-318.02	465.56	438.10	27.47	16.951	
5,700.00	5,690.83	5,675.04	5,649.32	13.96	16.00	-98.78	-414.11	-324.62	475.23	447.25	27.97	16.988	
5,800.00	5,790.65	5,774.58	5,748.27	14.21	16.31	-98.73	-422.60	-331.22	484.90	456.41	28.48	17.025	
5,900.00	5,890.47	5,874.11	5,847.22	14.46	16.61	-98.68	-431.09	-337.81	494.56	465.57	28.99	17.060	
6,000.00	5,990.29	5,973.64	5,946.17	14.72	16.92	-98.64	-439.58	-344.41	504.23	474.73	29.50	17.094	
6,100.00	6,090.11	6,073.17	6,045.11	14.97	17.22	-98.60	-448.07	-351.01	513.90	483.89	30.01	17.127	
6,200.00	6,189.93	6,172.70	6,144.06	15.22	17.53	-98.55	-456.55	-357.60	523.57	493.05	30.51	17.159	
6,300.00	6,289.75	6,272.23	6,243.01	15.47	17.83	-98.51	-465.04	-364.20	533.23	502.21	31.02	17.189	
6,400.00	6,389.57	6,371.76	6,341.96	15.72	18.13	-98.48	-473.53	-370.80	542.90	511.37	31.53	17.219	
6,500.00	6,489.39	6,471.29	6,440.91	15.97	18.44	-98.44	-482.02	-377.40	552.57	520.53	32.04	17.248	
6,600.00	6,589.21	6,570.82	6,539.86	16.22	18.74	-98.40	-490.51	-383.99	562.24	529.70	32.55	17.276	
6,700.00	6,689.02	6,670.35	6,638.81	16.47	19.05	-98.37	-499.00	-390.59	571.91	538.86	33.05	17.303	
6,800.00	6,788.84	6,769.88	6,737.75	16.73	19.35	-98.33	-507.48	-397.19	581.58	548.02	33.56	17.329	
6,900.00	6,888.66	6,869.41	6,836.70	16.98	19.66	-98.30	-515.97	-403.78	591.25	557.18	34.07	17.354	
7,000.00	6,988.48	6,968.95	6,935.65	17.23	19.96	-98.27	-524.46	-410.38	600.92	566.34	34.58	17.379	

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

Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07B
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07B	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM07D - OM07D - 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	7,088.30	7,068.48	7,034.60	17.48	20.27	-98.24	-532.95	-416.98	610.59	575.50	35.09	17.403	
7,200.00	7,188.12	7,168.01	7,133.55	17.73	20.57	-98.21	-541.44	-423.57	620.26	584.67	35.59	17.426	
7,300.00	7,287.94	7,274.10	7,239.07	17.98	20.86	-98.20	-550.12	-430.32	629.58	593.49	36.09	17.443	
7,400.00	7,387.76	7,383.65	7,348.21	18.23	21.09	-98.30	-557.53	-436.09	637.44	600.88	36.56	17.433	
7,500.00	7,487.58	7,493.41	7,457.72	18.48	21.29	-98.50	-563.31	-440.58	643.75	606.72	37.03	17.386	
7,512.86	7,500.41	7,507.53	7,471.82	18.52	21.31	-98.54	-563.94	-441.06	644.45	607.36	37.09	17.377	
7,600.00	7,587.43	7,603.31	7,567.51	18.70	21.47	-98.79	-567.44	-443.78	648.41	610.96	37.46	17.311	
7,700.00	7,687.36	7,713.35	7,677.49	18.87	21.64	-99.00	-569.90	-445.70	651.27	613.44	37.83	17.217	
7,800.00	7,787.35	7,820.86	7,785.00	19.04	21.79	-99.14	-570.70	-446.32	652.31	614.13	38.18	17.087	
7,857.65	7,845.00	7,877.48	7,841.62	19.13	21.90	-178.38	-570.84	-446.56	652.51	612.29	40.22	16.223	
7,900.00	7,887.34	7,917.44	7,881.57	19.21	21.97	-58.35	-571.11	-447.02	652.72	614.17	38.55	16.932	
8,000.00	7,987.33	8,011.78	7,975.89	19.42	22.17	-58.28	-572.29	-449.07	653.19	614.23	38.96	16.765	
8,107.65	8,094.92	8,115.89	8,079.91	19.65	22.40	-58.23	-574.41	-452.74	653.56	614.12	39.44	16.572	
8,200.00	8,187.18	8,208.24	8,172.17	19.86	22.61	-58.23	-576.42	-456.23	653.56	613.70	39.86	16.397	
8,300.00	8,287.08	8,308.24	8,272.07	20.08	22.83	-58.23	-578.60	-460.01	653.56	613.24	40.31	16.212	
8,400.00	8,386.99	8,408.24	8,371.98	20.31	23.06	-58.23	-580.78	-463.78	653.56	612.78	40.77	16.030	
8,500.00	8,486.89	8,508.24	8,471.88	20.53	23.28	-58.23	-582.96	-467.56	653.56	612.33	41.23	15.852	
8,600.00	8,586.80	8,608.24	8,571.79	20.76	23.51	-58.23	-585.14	-471.34	653.56	611.87	41.68	15.678	
8,700.00	8,686.70	8,708.24	8,671.69	20.98	23.74	-58.23	-587.33	-475.12	653.56	611.41	42.14	15.508	
8,800.00	8,786.61	8,808.24	8,771.60	21.21	23.97	-58.23	-589.51	-478.89	653.56	610.95	42.60	15.341	
8,900.00	8,886.51	8,908.24	8,871.50	21.44	24.19	-58.23	-591.69	-482.67	653.56	610.50	43.06	15.178	
9,000.00	8,986.42	9,008.24	8,971.41	21.66	24.42	-58.23	-593.87	-486.45	653.56	610.04	43.52	15.018	
9,100.00	9,086.32	9,108.24	9,071.31	21.89	24.65	-58.23	-596.05	-490.23	653.56	609.58	43.98	14.862	
9,200.00	9,186.23	9,208.24	9,171.22	22.12	24.88	-58.23	-598.23	-494.00	653.56	609.12	44.44	14.708	
9,300.00	9,286.13	9,308.24	9,271.12	22.35	25.11	-58.23	-600.41	-497.78	653.56	608.66	44.89	14.557	
9,400.00	9,386.04	9,408.24	9,371.03	22.57	25.34	-58.23	-602.59	-501.56	653.56	608.20	45.35	14.410	
9,500.00	9,485.94	9,508.24	9,470.93	22.80	25.57	-58.23	-604.77	-505.34	653.56	607.74	45.81	14.265	
9,600.00	9,585.85	9,608.24	9,570.84	23.03	25.79	-58.23	-606.95	-509.11	653.56	607.28	46.27	14.123	
9,700.00	9,685.75	9,708.24	9,670.74	23.26	26.02	-58.23	-609.14	-512.89	653.56	606.82	46.74	13.984	
9,800.00	9,785.65	9,808.24	9,770.65	23.49	26.25	-58.23	-611.32	-516.67	653.56	606.36	47.20	13.848	
9,900.00	9,885.56	9,908.24	9,870.55	23.72	26.48	-58.23	-613.50	-520.45	653.56	605.90	47.66	13.714	
10,000.00	9,985.46	10,008.24	9,970.45	23.95	26.71	-58.23	-615.68	-524.23	653.56	605.44	48.12	13.582	
10,100.00	10,085.37	10,108.24	10,070.36	24.18	26.94	-58.23	-617.86	-528.00	653.56	604.98	48.58	13.453	
10,200.00	10,185.27	10,208.24	10,170.26	24.41	27.18	-58.23	-620.04	-531.78	653.56	604.51	49.04	13.327	
10,300.00	10,285.18	10,308.24	10,270.17	24.64	27.41	-58.23	-622.22	-535.56	653.56	604.05	49.50	13.202	
10,400.00	10,385.08	10,408.24	10,370.07	24.87	27.64	-58.23	-624.40	-539.34	653.56	603.59	49.96	13.080	
10,500.00	10,484.99	10,508.24	10,469.98	25.10	27.87	-58.23	-626.58	-543.11	653.56	603.13	50.43	12.961	
10,600.00	10,584.89	10,608.24	10,569.88	25.33	28.10	-58.23	-628.76	-546.89	653.56	602.67	50.89	12.843	
10,700.00	10,684.80	10,708.24	10,669.79	25.56	28.33	-58.23	-630.95	-550.67	653.56	602.20	51.35	12.727	
10,800.00	10,784.70	10,808.24	10,769.69	25.79	28.56	-58.23	-633.13	-554.45	653.56	601.74	51.81	12.613	
10,900.00	10,884.61	10,908.24	10,869.60	26.02	28.79	-58.23	-635.31	-558.22	653.56	601.28	52.28	12.502	
11,000.00	10,984.51	11,008.24	10,969.50	26.25	29.03	-58.23	-637.49	-562.00	653.56	600.82	52.74	12.392	
11,100.00	11,084.42	11,108.24	11,069.41	26.49	29.26	-58.23	-639.67	-565.78	653.56	600.35	53.20	12.284	
11,200.00	11,184.32	11,208.24	11,169.31	26.72	29.49	-58.23	-641.85	-569.56	653.56	599.89	53.67	12.178	
11,244.30	11,228.58	11,252.53	11,213.57	26.82	29.59	-58.23	-642.82	-571.23	653.56	599.68	53.87	12.132	
11,300.00	11,284.23	11,273.99	11,235.00	26.95	29.64	-58.23	-643.28	-572.04	654.45	600.40	54.05	12.108	
11,310.78	11,295.00	11,273.99	11,235.00	26.98	29.64	-58.23	-643.28	-572.04	655.10	601.03	54.08	12.115	

Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07B
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07B	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM10B - OM10B - 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	57.13	8.10	12.53	14.92				
100.00	100.00	100.00	100.00	0.09	0.09	57.13	8.10	12.53	14.92	14.75	0.18	85.106	
160.00	160.00	160.00	160.00	0.22	0.22	57.13	8.10	12.53	14.92	14.48	0.45	33.527 CC	
200.00	200.00	200.14	200.14	0.31	0.30	137.89	7.82	12.48	14.94	14.33	0.61	24.421 ES	
310.00	309.93	310.33	310.26	0.55	0.53	156.73	4.22	11.85	16.09	15.01	1.08	14.859	
400.00	399.81	400.33	400.14	0.76	0.73	174.63	-0.14	10.10	18.67	17.19	1.48	12.584	
500.00	499.67	500.12	499.79	1.00	0.97	-171.62	-4.87	7.89	22.77	20.83	1.95	11.700	
600.00	599.53	599.92	599.45	1.24	1.21	-162.42	-9.61	5.68	27.77	25.35	2.42	11.490 SF	
700.00	699.40	699.71	699.11	1.49	1.45	-156.13	-14.34	3.47	33.26	30.37	2.89	11.506	
800.00	799.26	799.50	798.76	1.73	1.69	-151.66	-19.07	1.26	39.03	35.67	3.37	11.595	
900.00	899.12	899.30	898.42	1.97	1.94	-148.35	-23.80	-0.96	44.98	41.14	3.84	11.705	
1,000.00	998.99	999.09	998.08	2.22	2.18	-145.82	-28.53	-3.17	51.05	46.73	4.32	11.815	
1,100.00	1,098.85	1,098.89	1,097.74	2.46	2.43	-143.83	-33.26	-5.38	57.19	52.39	4.80	11.919	
1,200.00	1,198.71	1,198.68	1,197.39	2.71	2.68	-142.23	-38.00	-7.59	63.38	58.11	5.28	12.013	
1,300.00	1,298.57	1,298.47	1,297.05	2.95	2.92	-140.92	-42.73	-9.80	69.62	63.87	5.75	12.098	
1,400.00	1,398.44	1,398.27	1,396.71	3.20	3.17	-139.82	-47.46	-12.01	75.89	69.66	6.23	12.175	
1,500.00	1,498.30	1,498.06	1,496.36	3.44	3.42	-138.89	-52.19	-14.22	82.18	75.47	6.71	12.244	
1,600.00	1,598.16	1,596.43	1,594.50	3.69	3.67	-137.17	-58.33	-17.09	89.27	82.07	7.20	12.402	
1,700.00	1,698.03	1,694.29	1,691.83	3.93	3.95	-134.01	-67.46	-21.36	98.18	90.47	7.70	12.747	
1,800.00	1,797.89	1,791.44	1,788.06	4.18	4.26	-129.95	-79.50	-26.99	109.28	101.07	8.22	13.297	
1,822.40	1,820.25	1,813.08	1,809.43	4.23	4.33	-128.96	-82.58	-28.43	112.17	103.83	8.34	13.457	
1,900.00	1,897.71	1,889.48	1,884.80	4.43	4.59	-125.90	-93.92	-33.73	122.88	114.14	8.75	14.049	
2,000.00	1,997.53	1,988.19	1,982.18	4.68	4.94	-122.65	-108.58	-40.58	137.12	127.85	9.27	14.788	
2,100.00	2,097.35	2,086.91	2,079.56	4.93	5.28	-120.02	-123.24	-47.43	151.72	141.92	9.80	15.489	
2,200.00	2,197.17	2,185.62	2,176.93	5.18	5.64	-117.85	-137.90	-54.28	166.56	156.25	10.32	16.147	
2,300.00	2,296.99	2,284.33	2,274.31	5.43	5.99	-116.04	-152.56	-61.14	181.61	170.78	10.83	16.762	
2,400.00	2,396.81	2,383.04	2,371.68	5.68	6.35	-114.51	-167.22	-67.99	196.81	185.45	11.35	17.335	
2,500.00	2,496.63	2,481.75	2,469.06	5.93	6.72	-113.20	-181.88	-74.84	212.12	200.25	11.87	17.870	
2,600.00	2,596.45	2,580.46	2,566.44	6.18	7.08	-112.06	-196.54	-81.69	227.53	215.14	12.39	18.368	
2,700.00	2,696.27	2,679.18	2,663.81	6.43	7.44	-111.07	-211.20	-88.54	243.01	230.11	12.90	18.833	
2,800.00	2,796.08	2,777.89	2,761.19	6.68	7.81	-110.19	-225.86	-95.40	258.56	245.14	13.42	19.267	
2,900.00	2,895.90	2,876.60	2,858.57	6.93	8.18	-109.42	-240.52	-102.25	274.16	260.22	13.94	19.673	
3,000.00	2,995.72	2,975.31	2,955.94	7.18	8.55	-108.73	-255.18	-109.10	289.80	275.35	14.45	20.052	
3,100.00	3,095.54	3,074.02	3,053.32	7.43	8.92	-108.11	-269.84	-115.95	305.48	290.51	14.97	20.409	
3,200.00	3,195.36	3,172.74	3,150.69	7.68	9.29	-107.55	-284.50	-122.81	321.19	305.71	15.48	20.743	
3,300.00	3,295.18	3,271.45	3,248.07	7.94	9.66	-107.04	-299.16	-129.66	336.93	320.93	16.00	21.058	
3,400.00	3,395.00	3,370.16	3,345.45	8.19	10.03	-106.58	-313.82	-136.51	352.69	336.18	16.52	21.354	
3,500.00	3,494.82	3,468.87	3,442.82	8.44	10.41	-106.16	-328.48	-143.36	368.48	351.44	17.03	21.633	
3,600.00	3,594.64	3,567.58	3,540.20	8.69	10.78	-105.77	-343.14	-150.22	384.28	366.73	17.55	21.897	
3,700.00	3,694.46	3,666.29	3,637.58	8.94	11.15	-105.41	-357.80	-157.07	400.09	382.03	18.07	22.147	
3,800.00	3,794.27	3,765.01	3,734.95	9.19	11.53	-105.08	-372.46	-163.92	415.92	397.34	18.58	22.383	
3,900.00	3,894.09	3,863.72	3,832.33	9.44	11.90	-104.78	-387.12	-170.77	431.77	412.67	19.10	22.608	
4,000.00	3,993.91	3,962.43	3,929.70	9.69	12.28	-104.49	-401.78	-177.62	447.62	428.01	19.61	22.821	
4,100.00	4,093.73	4,061.14	4,027.08	9.94	12.65	-104.23	-416.44	-184.48	463.48	443.35	20.13	23.023	
4,200.00	4,193.55	4,159.85	4,124.46	10.20	13.03	-103.98	-431.10	-191.33	479.36	458.71	20.65	23.216	
4,300.00	4,293.37	4,258.57	4,221.83	10.45	13.40	-103.75	-445.76	-198.18	495.24	474.07	21.16	23.400	
4,400.00	4,393.19	4,357.28	4,319.21	10.70	13.78	-103.53	-460.42	-205.03	511.13	489.45	21.68	23.575	
4,500.00	4,493.01	4,455.99	4,416.59	10.95	14.16	-103.33	-475.08	-211.89	527.02	504.82	22.20	23.742	
4,600.00	4,592.83	4,554.70	4,513.96	11.20	14.53	-103.14	-489.74	-218.74	542.92	520.21	22.71	23.902	
4,700.00	4,692.64	4,653.41	4,611.34	11.45	14.91	-102.96	-504.40	-225.59	558.83	535.60	23.23	24.055	
4,800.00	4,792.46	4,752.12	4,708.72	11.70	15.29	-102.79	-519.06	-232.44	574.74	550.99	23.75	24.202	
4,900.00	4,892.28	4,850.84	4,806.09	11.95	15.66	-102.62	-533.72	-239.29	590.66	566.39	24.26	24.342	

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

Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07B
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07B	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM10B - OM10B - 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	
5,000.00	4,992.10	4,949.55	4,903.47	12.20	16.04	-102.47	-548.38	-246.15	606.58	581.80	24.78	24.477	
5,100.00	5,091.92	5,048.26	5,000.84	12.46	16.42	-102.33	-563.04	-253.00	622.50	597.21	25.30	24.606	
5,200.00	5,191.74	5,146.97	5,098.22	12.71	16.80	-102.19	-577.70	-259.85	638.43	612.62	25.82	24.730	
5,300.00	5,291.56	5,245.68	5,195.60	12.96	17.18	-102.06	-592.36	-266.70	654.37	628.03	26.33	24.850	
5,400.00	5,391.38	5,344.39	5,292.97	13.21	17.55	-101.93	-607.02	-273.56	670.30	643.45	26.85	24.965	
5,500.00	5,491.20	5,443.11	5,390.35	13.46	17.93	-101.81	-621.68	-280.41	686.24	658.87	27.37	25.076	
5,600.00	5,591.02	5,541.82	5,487.73	13.71	18.31	-101.70	-636.35	-287.26	702.18	674.30	27.88	25.182	
5,700.00	5,690.83	5,640.53	5,585.10	13.96	18.69	-101.59	-651.01	-294.11	718.12	689.72	28.40	25.285	
5,800.00	5,790.65	5,739.24	5,682.48	14.21	19.07	-101.48	-665.67	-300.97	734.07	705.15	28.92	25.384	
5,900.00	5,890.47	5,837.95	5,779.85	14.46	19.44	-101.38	-680.33	-307.82	750.02	720.58	29.44	25.480	
6,000.00	5,990.29	5,936.67	5,877.23	14.72	19.82	-101.29	-694.99	-314.67	765.97	736.02	29.95	25.573	
6,100.00	6,090.11	6,035.38	5,974.61	14.97	20.20	-101.20	-709.65	-321.52	781.92	751.45	30.47	25.662	
6,200.00	6,189.93	6,134.09	6,071.98	15.22	20.58	-101.11	-724.31	-328.37	797.88	766.89	30.99	25.749	
6,300.00	6,289.75	6,232.80	6,169.36	15.47	20.96	-101.02	-738.97	-335.23	813.83	782.33	31.50	25.832	
6,400.00	6,389.57	6,331.51	6,266.74	15.72	21.34	-100.94	-753.63	-342.08	829.79	797.77	32.02	25.913	
6,500.00	6,489.39	6,430.22	6,364.11	15.97	21.71	-100.86	-768.29	-348.93	845.75	813.21	32.54	25.992	
6,600.00	6,589.21	6,528.94	6,461.49	16.22	22.09	-100.79	-782.95	-355.78	861.71	828.65	33.06	26.068	
6,700.00	6,689.02	6,627.65	6,558.87	16.47	22.47	-100.72	-797.61	-362.64	877.67	844.10	33.57	26.142	
6,800.00	6,788.84	6,726.36	6,656.24	16.73	22.85	-100.65	-812.27	-369.49	893.64	859.55	34.09	26.213	
6,900.00	6,888.66	6,825.07	6,753.62	16.98	23.23	-100.58	-826.93	-376.34	909.60	874.99	34.61	26.283	
7,000.00	6,988.48	6,929.92	6,857.07	17.23	23.59	-100.51	-842.36	-383.55	925.45	890.33	35.12	26.352	
7,100.00	7,088.30	7,046.00	6,971.89	17.48	23.88	-100.49	-857.79	-390.76	939.85	904.25	35.61	26.395	
7,200.00	7,188.12	7,162.66	7,087.61	17.73	24.15	-100.53	-871.17	-397.02	952.44	916.34	36.10	26.386	
7,300.00	7,287.94	7,279.81	7,204.09	17.98	24.40	-100.63	-882.45	-402.29	963.18	926.60	36.58	26.329	
7,400.00	7,387.76	7,397.35	7,321.20	18.23	24.63	-100.79	-891.60	-406.57	972.09	935.02	37.07	26.225	
7,500.00	7,487.58	7,515.18	7,438.78	18.48	24.84	-101.01	-898.59	-409.83	979.15	941.60	37.55	26.077	
7,512.86	7,500.41	7,530.35	7,453.92	18.52	24.86	-101.04	-899.33	-410.18	979.92	942.32	37.61	26.055	
7,600.00	7,587.43	7,633.25	7,556.73	18.70	25.02	-101.28	-903.39	-412.08	984.24	946.24	38.00	25.901	
7,700.00	7,687.36	7,751.51	7,674.95	18.87	25.19	-101.48	-905.99	-413.30	987.15	948.76	38.39	25.715	
7,800.00	7,787.35	7,861.40	7,784.84	19.04	25.34	-101.59	-906.54	-413.60	987.99	949.23	38.76	25.493	
7,857.65	7,845.00	7,914.58	7,838.02	19.13	25.42	179.19	-906.80	-414.05	988.32	944.43	43.90	22.515	
7,900.00	7,887.34	7,953.64	7,877.06	19.21	25.49	-60.78	-907.15	-414.66	988.62	949.50	39.12	25.272	
8,000.00	7,987.33	8,045.85	7,969.24	19.42	25.66	-60.72	-908.50	-417.00	989.27	949.74	39.53	25.028	
8,107.65	8,094.92	8,150.48	8,073.77	19.65	25.87	-60.67	-910.73	-420.86	989.70	949.70	40.00	24.742	
8,200.00	8,187.18	8,242.83	8,166.03	19.86	26.05	-60.67	-912.74	-424.35	989.70	949.29	40.42	24.488	
8,300.00	8,287.08	8,342.83	8,265.94	20.08	26.26	-60.67	-914.93	-428.12	989.70	948.84	40.86	24.219	
8,400.00	8,386.99	8,442.83	8,365.84	20.31	26.46	-60.67	-917.11	-431.90	989.70	948.39	41.31	23.956	
8,500.00	8,486.89	8,542.83	8,465.75	20.53	26.66	-60.67	-919.29	-435.68	989.70	947.94	41.76	23.697	
8,600.00	8,586.80	8,642.83	8,565.65	20.76	26.87	-60.67	-921.47	-439.46	989.70	947.49	42.21	23.444	
8,700.00	8,686.70	8,742.83	8,665.56	20.98	27.07	-60.67	-923.65	-443.23	989.70	947.04	42.67	23.196	
8,800.00	8,786.61	8,842.83	8,765.46	21.21	27.28	-60.67	-925.83	-447.01	989.70	946.58	43.12	22.953	
8,900.00	8,886.51	8,942.83	8,865.37	21.44	27.48	-60.67	-928.01	-450.79	989.70	946.13	43.57	22.715	
9,000.00	8,986.42	9,042.83	8,965.27	21.66	27.69	-60.67	-930.19	-454.57	989.70	945.68	44.02	22.482	
9,100.00	9,086.32	9,142.83	9,065.17	21.89	27.90	-60.67	-932.37	-458.35	989.70	945.23	44.48	22.253	
9,200.00	9,186.23	9,242.83	9,165.08	22.12	28.11	-60.67	-934.55	-462.12	989.70	944.77	44.93	22.028	
9,300.00	9,286.13	9,342.83	9,264.98	22.35	28.31	-60.67	-936.73	-465.90	989.70	944.32	45.38	21.808	
9,400.00	9,386.04	9,442.83	9,364.89	22.57	28.52	-60.67	-938.92	-469.68	989.70	943.86	45.84	21.592	
9,500.00	9,485.94	9,542.83	9,464.79	22.80	28.73	-60.67	-941.10	-473.46	989.70	943.41	46.29	21.380	
9,600.00	9,585.85	9,642.83	9,564.70	23.03	28.94	-60.67	-943.28	-477.23	989.70	942.95	46.75	21.172	
9,700.00	9,685.75	9,742.83	9,664.60	23.26	29.15	-60.67	-945.46	-481.01	989.70	942.50	47.20	20.967	
9,800.00	9,785.65	9,842.83	9,764.51	23.49	29.36	-60.67	-947.64	-484.79	989.70	942.04	47.66	20.767	
9,900.00	9,885.56	9,942.83	9,864.41	23.72	29.57	-60.67	-949.82	-488.57	989.70	941.59	48.11	20.570	

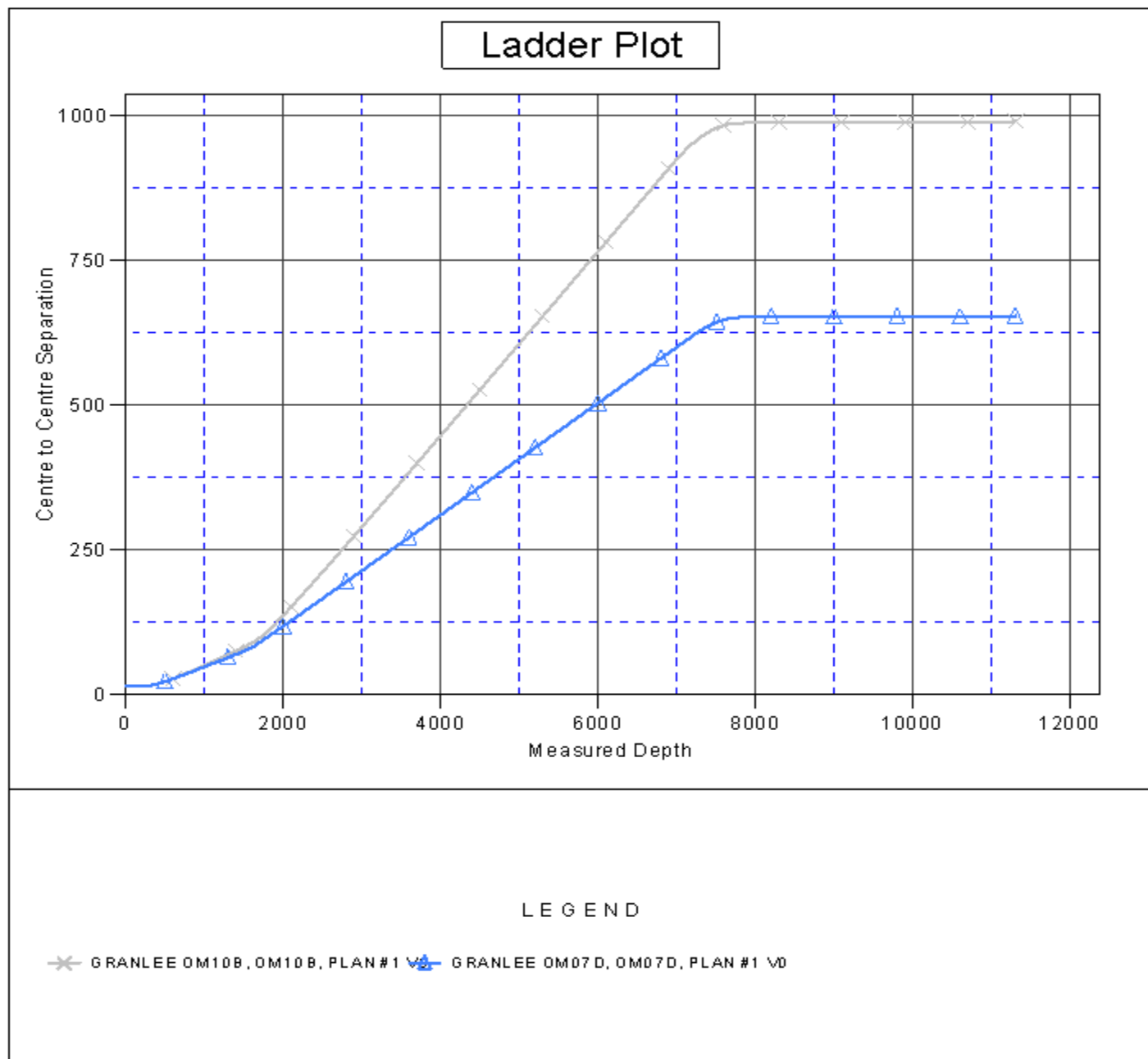
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07B
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07B	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design OM G03 696 PAD - GRANLEE OM10B - OM10B - PLAN #1												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
10,000.00	9,985.46	10,042.83	9,964.32	23.95	29.79	-60.67	-952.00	-492.34	989.70	941.13	48.57	20.377	
10,100.00	10,085.37	10,142.83	10,064.22	24.18	30.00	-60.67	-954.18	-496.12	989.70	940.67	49.03	20.187	
10,200.00	10,185.27	10,242.83	10,164.13	24.41	30.21	-60.67	-956.36	-499.90	989.70	940.22	49.48	20.000	
10,300.00	10,285.18	10,342.83	10,264.03	24.64	30.42	-60.67	-958.54	-503.68	989.70	939.76	49.94	19.817	
10,400.00	10,385.08	10,442.83	10,363.94	24.87	30.64	-60.67	-960.73	-507.45	989.70	939.30	50.40	19.637	
10,500.00	10,484.99	10,542.83	10,463.84	25.10	30.85	-60.67	-962.91	-511.23	989.70	938.84	50.86	19.461	
10,600.00	10,584.89	10,642.83	10,563.75	25.33	31.06	-60.67	-965.09	-515.01	989.70	938.39	51.32	19.287	
10,700.00	10,684.80	10,742.83	10,663.65	25.56	31.28	-60.67	-967.27	-518.79	989.70	937.93	51.77	19.116	
10,800.00	10,784.70	10,842.83	10,763.56	25.79	31.49	-60.67	-969.45	-522.56	989.70	937.47	52.23	18.948	
10,900.00	10,884.61	10,942.83	10,863.46	26.02	31.71	-60.67	-971.63	-526.34	989.70	937.01	52.69	18.783	
11,000.00	10,984.51	11,042.83	10,963.37	26.25	31.93	-60.67	-973.81	-530.12	989.70	936.55	53.15	18.621	
11,100.00	11,084.42	11,142.83	11,063.27	26.49	32.14	-60.67	-975.99	-533.90	989.70	936.09	53.61	18.461	
11,200.00	11,184.32	11,242.83	11,163.18	26.72	32.36	-60.67	-978.17	-537.67	989.70	935.63	54.07	18.304	
11,216.35	11,200.65	11,259.17	11,179.51	26.76	32.39	-60.67	-978.53	-538.29	989.70	935.56	54.15	18.279	
11,300.00	11,284.23	11,284.69	11,205.00	26.95	32.45	-60.67	-979.09	-539.26	991.41	937.01	54.40	18.225	
11,310.78	11,295.00	11,284.69	11,205.00	26.98	32.45	-60.67	-979.09	-539.26	992.10	937.68	54.42	18.230	

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Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07B	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07B	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

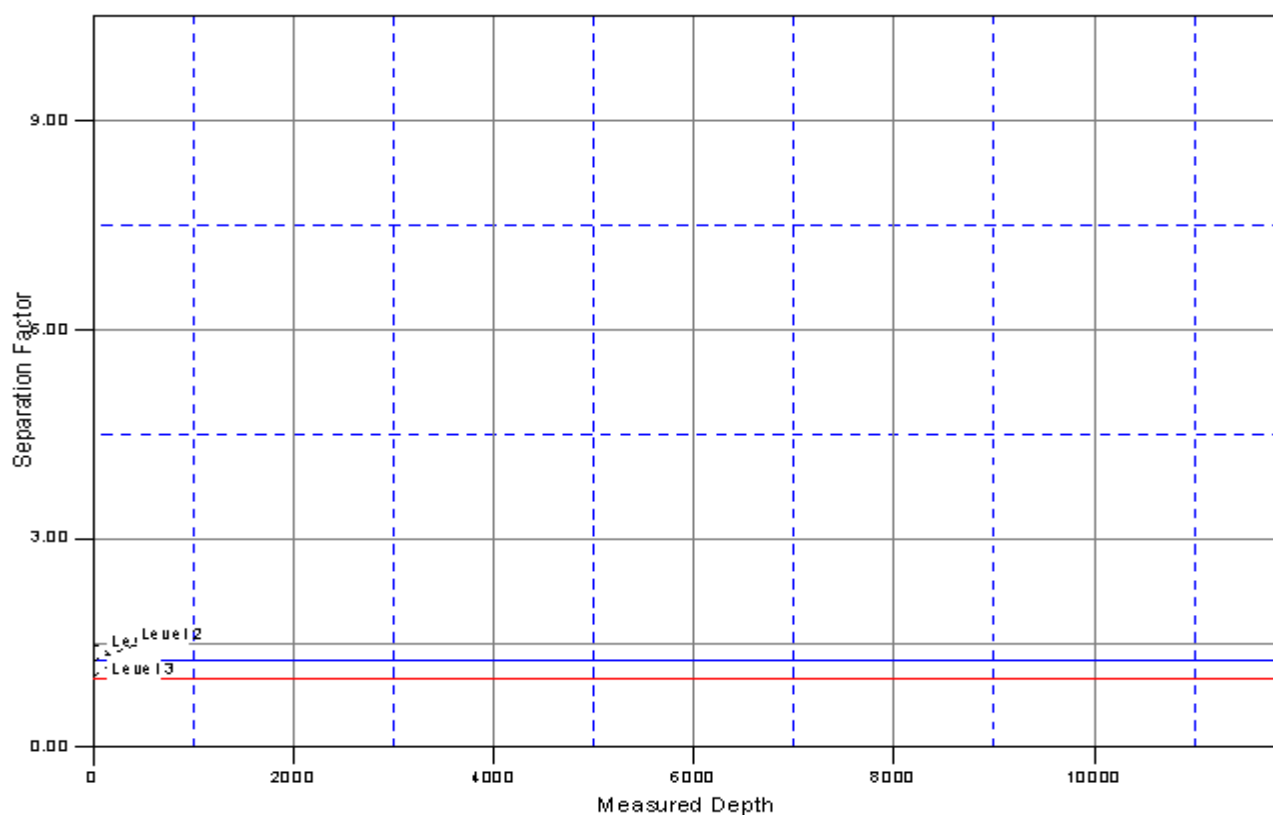
Reference Depths are relative to WELL @ 8185.50ft (Original Well Elev) Coordinates are relative to: GRANLEE OM07B
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Central Zone
Central Meridian is 105° 30' 0.0000 W ° Grid Convergence at Surface is: -1.63°



Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07B
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Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
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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 OM10B, OM10B, PLAN #1 V0 — GRANLEE OM07D, OM07D, PLAN #1 V0



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