



Berry Petroleum Company

BERRY PETROLEUM COMPANY

GARFIELD COUNTY, COLORADO

OM G03 696 PAD

GRANLEE OM07C

OM07C

Plan: PLAN #1

Standard Planning Report

08 September, 2008



Weatherford®



Berry Petroleum Company

GRANLEE OM07C
GARFIELD COUNTY, COLORADO
SECTION 3-T6S-R96W
1998' FNL, 1638' FEL
39° 33' 27.230 N
108° 5' 30.7400 W



Weatherford®

WELL DETAILS: GRANLEE OM07C

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1638395.15	2269311.35	8163.50	39° 33' 27.230 N	108° 5' 30.7400 W	

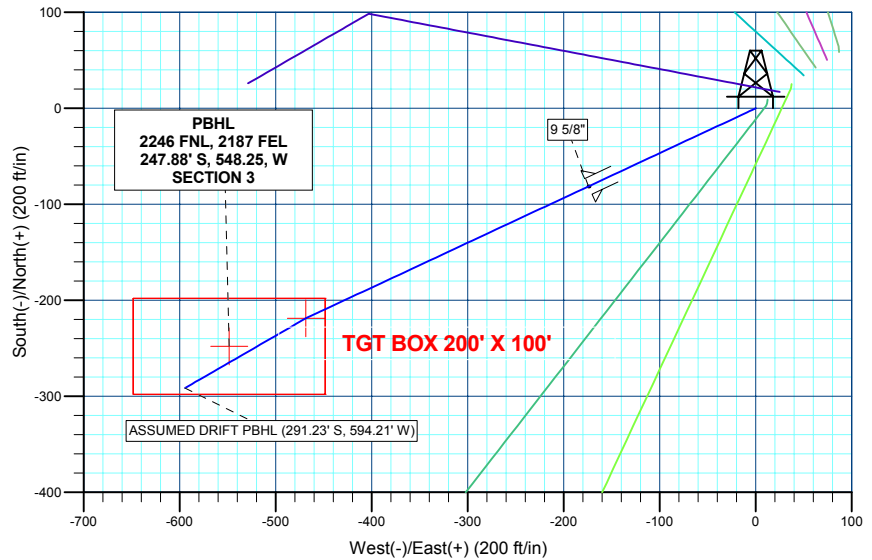
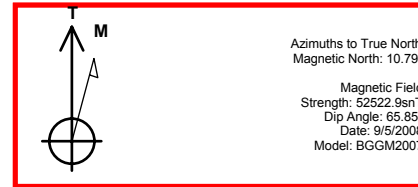
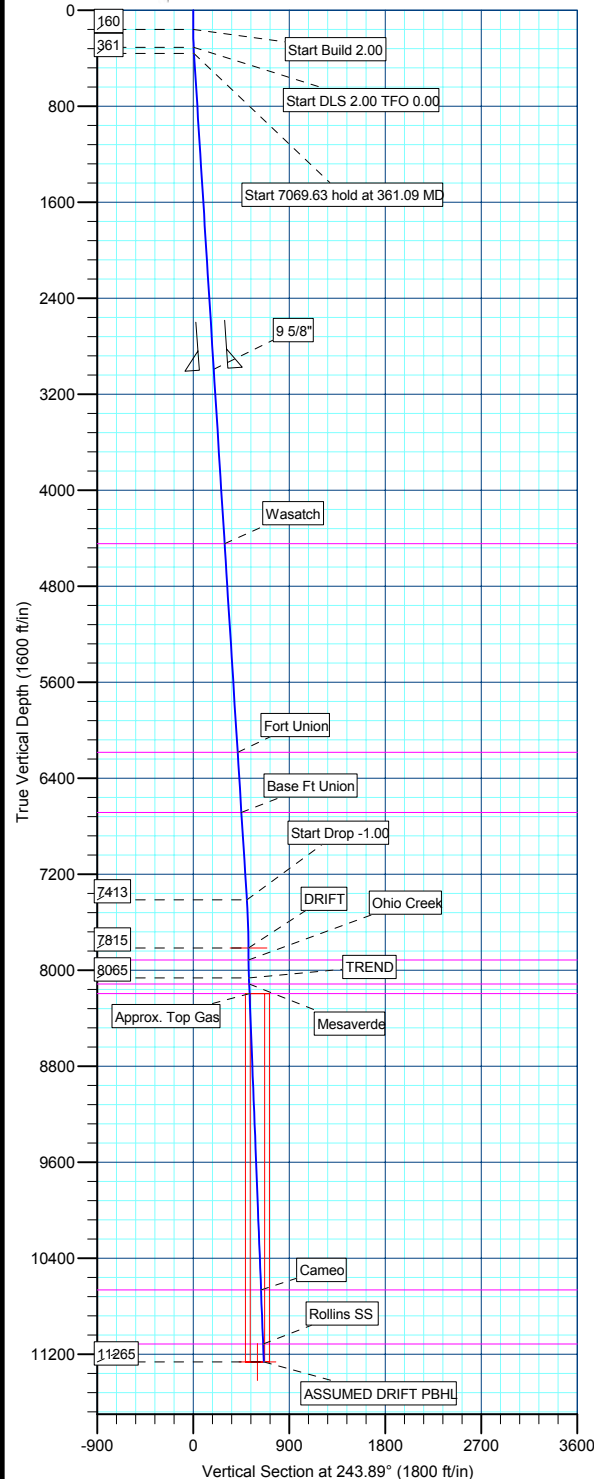
WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_OM07C-G03-695	11265.00	-247.88	-548.25	1638163.01	2268756.25	39° 33' 24.780 N	108° 5' 37.7400 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	244.98	309.93	-1.66	-3.56	2.00	244.98	3.93	
4	361.09	4.02	244.98	360.93	-2.98	-6.39	2.00	0.00	7.05	
5	7430.72	4.02	244.98	7413.15	-212.68	-455.71	0.00	0.00	502.80	
6	7832.90	0.00	0.00	7815.00	-218.65	-468.49	1.00	180.00	516.91	
7	8082.90	2.50	240.00	8064.92	-221.38	-473.21	1.00	240.00	522.35	
8	11265.03	2.50	240.00	11265.00	-291.23	-594.21	0.00	0.00	661.75	PBHL_OM07C-G03-695

KB ELEV: WELL @ 8185.50ft (Original Well E)
GRD ELEV: 8163.50



FORMATION TOP DETAILS

TVDP	MD	Path	Formation
4445.00	4455.25		Wasatch
6185.00	6199.54		Fort Union
6685.00	6700.78		Base Ft Union
7915.00	7932.91		Ohio Creek
8115.00	8133.03		Mesaverde
8195.00	8213.11		Approx. Top Gas
10665.00	10685.46		Cameo
11115.00	11135.89		Rollins SS

Plan: PLAN #1 (GRANLEE OM07C/OM07C)

Created By: Robert H. Scott



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GRANLEE OM07C
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 OM07C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07C		
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:		1,638,395.15 ft		Latitude:		39° 33' 27.230 N	
From:		Lat/Long		Easting:		2,269,311.35 ft		Longitude:		108° 5' 30.7400 W	
Position Uncertainty:		0.00 ft		Slot Radius:		in		Grid Convergence:		-1.63 °	

Well	GRANLEE OM07C					
Well Position	+N/-S	0.00 ft	Northing:	1,638,395.15 ft	Latitude:	39° 33' 27.230 N
	+E/-W	0.00 ft	Easting:	2,269,311.35 ft	Longitude:	108° 5' 30.7400 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,163.50 ft

Wellbore	OM07C				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	9/5/2008	10.79	65.85	52,523

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	243.89	

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	244.98	309.93	-1.66	-3.56	2.00	2.00	0.00	244.98	
361.09	4.02	244.98	360.93	-2.98	-6.39	2.00	2.00	0.00	0.00	
7,430.72	4.02	244.98	7,413.15	-212.68	-455.71	0.00	0.00	0.00	0.00	
7,832.90	0.00	0.00	7,815.00	-218.65	-468.49	1.00	-1.00	0.00	180.00	
8,082.90	2.50	240.00	8,064.92	-221.38	-473.21	1.00	1.00	0.00	240.00	
11,286.03	2.50	240.00	11,265.00	-291.23	-594.21	0.00	0.00	0.00	0.00	PBHL_OM07C-G03



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GRANLEE OM07C
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 OM07C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07C		
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	244.98	200.00	-0.12	-0.25	0.28	2.00	2.00	0.00
300.00	2.80	244.98	299.94	-1.45	-3.10	3.42	2.00	2.00	0.00
310.00	3.00	244.98	309.93	-1.66	-3.56	3.93	2.00	2.00	0.00
Start DLS 2.00 TFO 0.00									
361.09	4.02	244.98	360.93	-2.98	-6.39	7.05	2.00	2.00	0.00
Start 7069.63 hold at 361.09 MD									
400.00	4.02	244.98	399.74	-4.14	-8.87	9.78	0.00	0.00	0.00
500.00	4.02	244.98	499.49	-7.10	-15.22	16.79	0.00	0.00	0.00
600.00	4.02	244.98	599.25	-10.07	-21.58	23.81	0.00	0.00	0.00
700.00	4.02	244.98	699.00	-13.04	-27.93	30.82	0.00	0.00	0.00
800.00	4.02	244.98	798.75	-16.00	-34.29	37.83	0.00	0.00	0.00
900.00	4.02	244.98	898.51	-18.97	-40.64	44.84	0.00	0.00	0.00
1,000.00	4.02	244.98	998.26	-21.93	-47.00	51.86	0.00	0.00	0.00
1,100.00	4.02	244.98	1,098.02	-24.90	-53.35	58.87	0.00	0.00	0.00
1,200.00	4.02	244.98	1,197.77	-27.87	-59.71	65.88	0.00	0.00	0.00
1,300.00	4.02	244.98	1,297.52	-30.83	-66.07	72.89	0.00	0.00	0.00
1,400.00	4.02	244.98	1,397.28	-33.80	-72.42	79.91	0.00	0.00	0.00
1,500.00	4.02	244.98	1,497.03	-36.77	-78.78	86.92	0.00	0.00	0.00
1,600.00	4.02	244.98	1,596.78	-39.73	-85.13	93.93	0.00	0.00	0.00
1,700.00	4.02	244.98	1,696.54	-42.70	-91.49	100.94	0.00	0.00	0.00
1,800.00	4.02	244.98	1,796.29	-45.66	-97.84	107.95	0.00	0.00	0.00
1,900.00	4.02	244.98	1,896.05	-48.63	-104.20	114.97	0.00	0.00	0.00
2,000.00	4.02	244.98	1,995.80	-51.60	-110.55	121.98	0.00	0.00	0.00
2,100.00	4.02	244.98	2,095.55	-54.56	-116.91	128.99	0.00	0.00	0.00
2,200.00	4.02	244.98	2,195.31	-57.53	-123.27	136.00	0.00	0.00	0.00
2,300.00	4.02	244.98	2,295.06	-60.50	-129.62	143.02	0.00	0.00	0.00
2,400.00	4.02	244.98	2,394.81	-63.46	-135.98	150.03	0.00	0.00	0.00
2,500.00	4.02	244.98	2,494.57	-66.43	-142.33	157.04	0.00	0.00	0.00
2,600.00	4.02	244.98	2,594.32	-69.39	-148.69	164.05	0.00	0.00	0.00
2,700.00	4.02	244.98	2,694.08	-72.36	-155.04	171.07	0.00	0.00	0.00
2,800.00	4.02	244.98	2,793.83	-75.33	-161.40	178.08	0.00	0.00	0.00
2,900.00	4.02	244.98	2,893.58	-78.29	-167.75	185.09	0.00	0.00	0.00
3,000.00	4.02	244.98	2,993.34	-81.26	-174.11	192.10	0.00	0.00	0.00
9 5/8"									
3,100.00	4.02	244.98	3,093.09	-84.22	-180.47	199.12	0.00	0.00	0.00
3,200.00	4.02	244.98	3,192.84	-87.19	-186.82	206.13	0.00	0.00	0.00
3,300.00	4.02	244.98	3,292.60	-90.16	-193.18	213.14	0.00	0.00	0.00
3,400.00	4.02	244.98	3,392.35	-93.12	-199.53	220.15	0.00	0.00	0.00
3,500.00	4.02	244.98	3,492.11	-96.09	-205.89	227.17	0.00	0.00	0.00
3,600.00	4.02	244.98	3,591.86	-99.06	-212.24	234.18	0.00	0.00	0.00
3,700.00	4.02	244.98	3,691.61	-102.02	-218.60	241.19	0.00	0.00	0.00
3,800.00	4.02	244.98	3,791.37	-104.99	-224.95	248.20	0.00	0.00	0.00
3,900.00	4.02	244.98	3,891.12	-107.95	-231.31	255.21	0.00	0.00	0.00
4,000.00	4.02	244.98	3,990.87	-110.92	-237.66	262.23	0.00	0.00	0.00
4,100.00	4.02	244.98	4,090.63	-113.89	-244.02	269.24	0.00	0.00	0.00
4,200.00	4.02	244.98	4,190.38	-116.85	-250.38	276.25	0.00	0.00	0.00
4,300.00	4.02	244.98	4,290.14	-119.82	-256.73	283.26	0.00	0.00	0.00
4,400.00	4.02	244.98	4,389.89	-122.79	-263.09	290.28	0.00	0.00	0.00
4,455.25	4.02	244.98	4,445.00	-124.42	-266.60	294.15	0.00	0.00	0.00
Wasatch									
4,500.00	4.02	244.98	4,489.64	-125.75	-269.44	297.29	0.00	0.00	0.00



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Project:	GARFIELD COUNTY, COLORADO	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site:	OM G03 696 PAD	North Reference:	True
Well:	GRANLEE OM07C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07C		
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)
4,600.00	4.02	244.98	4,589.40	-128.72	-275.80	304.30	0.00	0.00	0.00
4,700.00	4.02	244.98	4,689.15	-131.68	-282.15	311.31	0.00	0.00	0.00
4,800.00	4.02	244.98	4,788.90	-134.65	-288.51	318.33	0.00	0.00	0.00
4,900.00	4.02	244.98	4,888.66	-137.62	-294.86	325.34	0.00	0.00	0.00
5,000.00	4.02	244.98	4,988.41	-140.58	-301.22	332.35	0.00	0.00	0.00
5,100.00	4.02	244.98	5,088.16	-143.55	-307.58	339.36	0.00	0.00	0.00
5,200.00	4.02	244.98	5,187.92	-146.51	-313.93	346.38	0.00	0.00	0.00
5,300.00	4.02	244.98	5,287.67	-149.48	-320.29	353.39	0.00	0.00	0.00
5,400.00	4.02	244.98	5,387.43	-152.45	-326.64	360.40	0.00	0.00	0.00
5,500.00	4.02	244.98	5,487.18	-155.41	-333.00	367.41	0.00	0.00	0.00
5,600.00	4.02	244.98	5,586.93	-158.38	-339.35	374.42	0.00	0.00	0.00
5,700.00	4.02	244.98	5,686.69	-161.35	-345.71	381.44	0.00	0.00	0.00
5,800.00	4.02	244.98	5,786.44	-164.31	-352.06	388.45	0.00	0.00	0.00
5,900.00	4.02	244.98	5,886.19	-167.28	-358.42	395.46	0.00	0.00	0.00
6,000.00	4.02	244.98	5,985.95	-170.24	-364.78	402.47	0.00	0.00	0.00
6,100.00	4.02	244.98	6,085.70	-173.21	-371.13	409.49	0.00	0.00	0.00
6,199.54	4.02	244.98	6,185.00	-176.16	-377.46	416.47	0.00	0.00	0.00
Fort Union									
6,200.00	4.02	244.98	6,185.46	-176.18	-377.49	416.50	0.00	0.00	0.00
6,300.00	4.02	244.98	6,285.21	-179.14	-383.84	423.51	0.00	0.00	0.00
6,400.00	4.02	244.98	6,384.96	-182.11	-390.20	430.52	0.00	0.00	0.00
6,500.00	4.02	244.98	6,484.72	-185.07	-396.55	437.54	0.00	0.00	0.00
6,600.00	4.02	244.98	6,584.47	-188.04	-402.91	444.55	0.00	0.00	0.00
6,700.00	4.02	244.98	6,684.22	-191.01	-409.26	451.56	0.00	0.00	0.00
6,700.78	4.02	244.98	6,685.00	-191.03	-409.31	451.62	0.00	0.00	0.00
Base Ft Union									
6,800.00	4.02	244.98	6,783.98	-193.97	-415.62	458.57	0.00	0.00	0.00
6,900.00	4.02	244.98	6,883.73	-196.94	-421.98	465.59	0.00	0.00	0.00
7,000.00	4.02	244.98	6,983.49	-199.91	-428.33	472.60	0.00	0.00	0.00
7,100.00	4.02	244.98	7,083.24	-202.87	-434.69	479.61	0.00	0.00	0.00
7,200.00	4.02	244.98	7,182.99	-205.84	-441.04	486.62	0.00	0.00	0.00
7,300.00	4.02	244.98	7,282.75	-208.80	-447.40	493.63	0.00	0.00	0.00
7,400.00	4.02	244.98	7,382.50	-211.77	-453.75	500.65	0.00	0.00	0.00
7,430.72	4.02	244.98	7,413.15	-212.68	-455.71	502.80	0.00	0.00	0.00
Start Drop -1.00									
7,500.00	3.33	244.98	7,482.28	-214.56	-459.73	507.24	1.00	-1.00	0.00
7,600.00	2.33	244.98	7,582.16	-216.65	-464.20	512.18	1.00	-1.00	0.00
7,700.00	1.33	244.98	7,682.11	-218.00	-467.09	515.37	1.00	-1.00	0.00
7,800.00	0.33	244.98	7,782.10	-218.61	-468.41	516.81	1.00	-1.00	0.00
7,832.90	0.00	0.00	7,815.00	-218.65	-468.49	516.91	1.00	-1.00	0.00
DRIFT - Plan @ 7815.00 (GRANLEE OM07C OM07C PLAN #1)									
7,900.00	0.67	240.00	7,882.09	-218.85	-468.83	517.30	1.00	1.00	0.00
7,932.91	1.00	240.00	7,915.00	-219.09	-469.25	517.78	1.00	1.00	0.00
Ohio Creek									
8,000.00	1.67	240.00	7,982.07	-219.87	-470.60	519.34	1.00	1.00	0.00
8,082.90	2.50	240.00	8,064.92	-221.38	-473.21	522.35	1.00	1.00	0.00
TREND									
8,100.00	2.50	240.00	8,082.00	-221.75	-473.86	523.09	0.00	0.00	0.00
8,133.03	2.50	240.00	8,115.00	-222.47	-475.11	524.53	0.00	0.00	0.00
Mesaverde									
8,200.00	2.50	240.00	8,181.90	-223.93	-477.64	527.45	0.00	0.00	0.00
8,213.11	2.50	240.00	8,195.00	-224.22	-478.13	528.02	0.00	0.00	0.00
Approx. Top Gas									



Berry Petroleum Company

Weatherford International Ltd.

Planning Report



Weatherford

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GRANLEE OM07C
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 OM07C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07C		
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)
8,300.00	2.50	240.00	8,281.81	-226.11	-481.41	531.80	0.00	0.00	0.00
8,400.00	2.50	240.00	8,381.71	-228.29	-485.19	536.15	0.00	0.00	0.00
8,500.00	2.50	240.00	8,481.62	-230.47	-488.97	540.50	0.00	0.00	0.00
8,600.00	2.50	240.00	8,581.52	-232.65	-492.75	544.85	0.00	0.00	0.00
8,700.00	2.50	240.00	8,681.43	-234.83	-496.52	549.20	0.00	0.00	0.00
8,800.00	2.50	240.00	8,781.33	-237.02	-500.30	553.56	0.00	0.00	0.00
8,900.00	2.50	240.00	8,881.24	-239.20	-504.08	557.91	0.00	0.00	0.00
9,000.00	2.50	240.00	8,981.14	-241.38	-507.86	562.26	0.00	0.00	0.00
9,100.00	2.50	240.00	9,081.05	-243.56	-511.64	566.61	0.00	0.00	0.00
9,200.00	2.50	240.00	9,180.95	-245.74	-515.41	570.96	0.00	0.00	0.00
9,300.00	2.50	240.00	9,280.86	-247.92	-519.19	575.32	0.00	0.00	0.00
9,400.00	2.50	240.00	9,380.76	-250.10	-522.97	579.67	0.00	0.00	0.00
9,500.00	2.50	240.00	9,480.67	-252.28	-526.75	584.02	0.00	0.00	0.00
9,600.00	2.50	240.00	9,580.57	-254.46	-530.52	588.37	0.00	0.00	0.00
9,700.00	2.50	240.00	9,680.48	-256.64	-534.30	592.72	0.00	0.00	0.00
9,800.00	2.50	240.00	9,780.38	-258.82	-538.08	597.08	0.00	0.00	0.00
9,900.00	2.50	240.00	9,880.29	-261.01	-541.86	601.43	0.00	0.00	0.00
10,000.00	2.50	240.00	9,980.19	-263.19	-545.63	605.78	0.00	0.00	0.00
10,100.00	2.50	240.00	10,080.10	-265.37	-549.41	610.13	0.00	0.00	0.00
10,200.00	2.50	240.00	10,180.00	-267.55	-553.19	614.48	0.00	0.00	0.00
10,300.00	2.50	240.00	10,279.91	-269.73	-556.97	618.83	0.00	0.00	0.00
10,400.00	2.50	240.00	10,379.81	-271.91	-560.74	623.19	0.00	0.00	0.00
10,500.00	2.50	240.00	10,479.72	-274.09	-564.52	627.54	0.00	0.00	0.00
10,600.00	2.50	240.00	10,579.62	-276.27	-568.30	631.89	0.00	0.00	0.00
10,685.46	2.50	240.00	10,665.00	-278.14	-571.53	635.61	0.00	0.00	0.00
Cameo									
10,700.00	2.50	240.00	10,679.52	-278.45	-572.08	636.24	0.00	0.00	0.00
10,800.00	2.50	240.00	10,779.43	-280.63	-575.85	640.59	0.00	0.00	0.00
10,900.00	2.50	240.00	10,879.33	-282.82	-579.63	644.95	0.00	0.00	0.00
11,000.00	2.50	240.00	10,979.24	-285.00	-583.41	649.30	0.00	0.00	0.00
11,100.00	2.50	240.00	11,079.14	-287.18	-587.19	653.65	0.00	0.00	0.00
11,135.89	2.50	240.00	11,115.00	-287.96	-588.54	655.21	0.00	0.00	0.00
Rollins SS									
11,200.00	2.50	240.00	11,179.05	-289.36	-590.96	658.00	0.00	0.00	0.00
11,283.35	2.50	240.00	11,262.32	-291.18	-594.11	661.63	0.00	0.00	0.00
PBHL_OM07C-G03-695									
11,286.03	2.50	240.00	11,265.00	-291.23	-594.21	661.75	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	2,993.34	9 5/8"	9.62	12.25



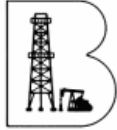
Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GRANLEE OM07C
Company:	BERRY PETROLEUM COMPANY	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Project:	GARFIELD COUNTY, COLORADO	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site:	OM G03 696 PAD	North Reference:	True
Well:	GRANLEE OM07C	Survey Calculation Method:	Minimum Curvature
Wellbore:	OM07C		
Design:	PLAN #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,455.25	4,445.00	Wasatch		0.00	
6,199.54	6,185.00	Fort Union		0.00	
6,700.78	6,685.00	Base Ft Union		0.00	
7,932.91	7,915.00	Ohio Creek		0.00	
8,133.03	8,115.00	Mesaverde		0.00	
8,213.11	8,195.00	Approx. Top Gas		0.00	
10,685.46	10,665.00	Cameo		0.00	
11,135.89	11,115.00	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	-1.66	-3.56	Start DLS 2.00 TFO 0.00
361.09	360.93	-2.98	-6.39	Start 7069.63 hold at 361.09 MD
7,430.72	7,413.15	-212.68	-455.71	Start Drop -1.00
7,832.90	7,815.00	-218.65	-468.49	DRIFT
8,082.90	8,064.92	-221.38	-473.21	TREND
11,286.03	11,265.00	-291.23	-594.21	ASSUMED DRIFT PBHL



Berry Petroleum Company

BERRY PETROLEUM COMPANY

**GARFIELD COUNTY, COLORADO
OM G03 696 PAD
GRANLEE OM07C**

**OM07C
PLAN #1**

Anticollision Report

08 September, 2008



Weatherford®

Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07C
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 OM07C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07C	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	9/5/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	11,286.03	PLAN #1 (OM07C)	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	160.00	160.00	15.48	15.04	34.790	CC
GRANLEE OM07D - OM07D - PLAN #1	200.00	200.15	15.56	14.95	25.535	ES
GRANLEE OM07D - OM07D - PLAN #1	11,286.03	11,273.99	339.51	283.95	6.111	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	54.03	9.09	12.53	15.48				
100.00	100.00	100.00	100.00	0.09	0.09	54.03	9.09	12.53	15.48	15.31	0.18	88.313	
160.00	160.00	160.00	160.00	0.22	0.22	54.03	9.09	12.53	15.48	15.04	0.45	34.790	CC
200.00	200.00	200.15	200.15	0.31	0.30	169.97	8.82	12.48	15.56	14.95	0.61	25.535	ES
310.00	309.93	310.51	310.44	0.54	0.53	-178.99	5.20	11.84	16.87	15.80	1.07	15.745	
361.09	360.93	361.77	361.63	0.67	0.65	-173.14	2.70	10.93	18.25	16.95	1.30	14.045	
400.00	399.74	400.74	400.55	0.76	0.74	-170.52	1.04	9.74	19.33	17.86	1.47	13.171	
500.00	499.49	500.69	500.36	1.01	0.97	-165.43	-3.09	6.53	22.14	20.22	1.92	11.514	
600.00	599.25	600.63	600.17	1.26	1.21	-161.51	-7.22	3.32	25.08	22.69	2.39	10.497	
700.00	699.00	700.58	699.97	1.52	1.45	-158.42	-11.35	0.11	28.11	25.25	2.86	9.820	
800.00	798.75	800.52	799.78	1.78	1.69	-155.93	-15.48	-3.09	31.21	27.87	3.34	9.341	
900.00	898.51	900.46	899.59	2.04	1.94	-153.90	-19.61	-6.30	34.36	30.54	3.82	8.986	
1,000.00	998.26	1,000.41	999.39	2.30	2.19	-152.21	-23.74	-9.51	37.55	33.24	4.31	8.714	
1,100.00	1,098.02	1,100.35	1,099.20	2.56	2.43	-150.79	-27.88	-12.72	40.76	35.96	4.80	8.499	
1,200.00	1,197.77	1,200.29	1,199.01	2.83	2.68	-149.58	-32.01	-15.93	43.99	38.71	5.28	8.326	
1,300.00	1,297.52	1,300.24	1,298.81	3.09	2.92	-148.53	-36.14	-19.14	47.24	41.47	5.77	8.183	
1,400.00	1,397.28	1,400.18	1,398.62	3.35	3.17	-147.62	-40.27	-22.35	50.50	44.24	6.26	8.064	
1,500.00	1,497.03	1,500.13	1,498.43	3.61	3.42	-146.81	-44.40	-25.56	53.78	47.02	6.75	7.962	
1,600.00	1,596.78	1,601.00	1,599.05	3.87	3.68	-144.51	-49.97	-29.89	56.23	48.95	7.27	7.730	
1,700.00	1,696.54	1,701.39	1,698.91	4.14	3.97	-139.51	-58.05	-36.17	57.45	49.61	7.85	7.321	
1,800.00	1,796.29	1,801.23	1,798.17	4.40	4.26	-134.21	-66.57	-42.79	58.92	50.48	8.44	6.982	
1,900.00	1,896.05	1,901.07	1,897.43	4.66	4.55	-129.21	-75.08	-49.41	60.86	51.82	9.03	6.738	
2,000.00	1,995.80	2,000.92	1,996.69	4.92	4.85	-124.56	-83.60	-56.03	63.23	53.60	9.62	6.570	
2,100.00	2,095.55	2,100.76	2,095.95	5.19	5.14	-120.26	-92.11	-62.64	65.99	55.78	10.21	6.462	

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 OM07C
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 OM07C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07C	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	
2,200.00	2,195.31	2,200.61	2,195.21	5.45	5.44	-116.33	-100.63	-69.26	69.09	58.30	10.79	6.401	
2,300.00	2,295.06	2,300.45	2,294.47	5.71	5.74	-112.75	-109.14	-75.88	72.49	61.12	11.37	6.376	
2,400.00	2,394.81	2,400.30	2,393.73	5.97	6.04	-109.50	-117.66	-82.50	76.14	64.21	11.94	6.379	
2,500.00	2,494.57	2,500.14	2,492.99	6.24	6.34	-106.56	-126.17	-89.12	80.02	67.53	12.50	6.404	
2,600.00	2,594.32	2,599.99	2,592.25	6.50	6.64	-103.89	-134.68	-95.73	84.09	71.04	13.05	6.444	
2,700.00	2,694.08	2,699.83	2,691.51	6.76	6.94	-101.48	-143.20	-102.35	88.32	74.73	13.60	6.495	
2,800.00	2,793.83	2,799.67	2,790.77	7.02	7.24	-99.29	-151.71	-108.97	92.70	78.56	14.14	6.555	
2,900.00	2,893.58	2,899.52	2,890.03	7.29	7.54	-97.30	-160.23	-115.59	97.20	82.52	14.68	6.620	
3,000.00	2,993.34	2,999.36	2,989.29	7.55	7.84	-95.49	-168.74	-122.21	101.80	86.59	15.22	6.690	
3,100.00	3,093.09	3,099.21	3,088.55	7.81	8.15	-93.83	-177.26	-128.82	106.50	90.75	15.75	6.762	
3,200.00	3,192.84	3,199.05	3,187.81	8.08	8.45	-92.32	-185.77	-135.44	111.28	95.00	16.28	6.836	
3,300.00	3,292.60	3,298.90	3,287.07	8.34	8.75	-90.93	-194.29	-142.06	116.13	99.33	16.81	6.910	
3,400.00	3,392.35	3,398.74	3,386.33	8.60	9.05	-89.66	-202.80	-148.68	121.05	103.71	17.33	6.984	
3,500.00	3,492.11	3,498.59	3,485.59	8.86	9.36	-88.48	-211.32	-155.30	126.01	108.16	17.86	7.057	
3,600.00	3,591.86	3,598.43	3,584.85	9.13	9.66	-87.39	-219.83	-161.91	131.03	112.65	18.38	7.129	
3,700.00	3,691.61	3,698.27	3,684.11	9.39	9.97	-86.39	-228.35	-168.53	136.09	117.19	18.90	7.200	
3,800.00	3,791.37	3,798.12	3,783.37	9.65	10.27	-85.45	-236.86	-175.15	141.19	121.77	19.42	7.270	
3,900.00	3,891.12	3,897.96	3,882.63	9.91	10.57	-84.59	-245.38	-181.77	146.33	126.39	19.94	7.338	
4,000.00	3,990.87	3,997.81	3,981.89	10.18	10.88	-83.78	-253.89	-188.38	151.49	131.03	20.46	7.404	
4,100.00	4,090.63	4,097.65	4,081.15	10.44	11.18	-83.02	-262.41	-195.00	156.69	135.71	20.98	7.469	
4,200.00	4,190.38	4,197.50	4,180.42	10.70	11.49	-82.31	-270.92	-201.62	161.91	140.41	21.50	7.532	
4,300.00	4,290.14	4,297.34	4,279.68	10.97	11.79	-81.65	-279.44	-208.24	167.15	145.14	22.01	7.593	
4,400.00	4,389.89	4,397.18	4,378.94	11.23	12.10	-81.03	-287.95	-214.86	172.41	149.88	22.53	7.652	
4,500.00	4,489.64	4,497.03	4,478.20	11.49	12.40	-80.44	-296.47	-221.47	177.70	154.65	23.05	7.710	
4,600.00	4,589.40	4,596.87	4,577.46	11.75	12.71	-79.89	-304.98	-228.09	183.00	159.43	23.56	7.766	
4,700.00	4,689.15	4,696.72	4,676.72	12.02	13.01	-79.37	-313.50	-234.71	188.31	164.23	24.08	7.820	
4,800.00	4,788.90	4,796.56	4,775.98	12.28	13.32	-78.88	-322.01	-241.33	193.64	169.05	24.60	7.873	
4,900.00	4,888.66	4,896.41	4,875.24	12.54	13.62	-78.41	-330.53	-247.95	198.99	173.88	25.11	7.924	
5,000.00	4,988.41	4,996.25	4,974.50	12.81	13.93	-77.97	-339.04	-254.56	204.34	178.72	25.63	7.974	
5,100.00	5,088.16	5,096.10	5,073.76	13.07	14.23	-77.55	-347.56	-261.18	209.71	183.57	26.14	8.022	
5,200.00	5,187.92	5,195.94	5,173.02	13.33	14.54	-77.15	-356.07	-267.80	215.09	188.43	26.66	8.068	
5,300.00	5,287.67	5,295.78	5,272.28	13.59	14.84	-76.78	-364.59	-274.42	220.48	193.31	27.17	8.114	
5,400.00	5,387.43	5,395.63	5,371.54	13.86	15.15	-76.42	-373.10	-281.03	225.88	198.19	27.69	8.158	
5,500.00	5,487.18	5,495.47	5,470.80	14.12	15.45	-76.07	-381.62	-287.65	231.28	203.08	28.20	8.200	
5,600.00	5,586.93	5,595.32	5,570.06	14.38	15.76	-75.74	-390.13	-294.27	236.70	207.98	28.72	8.242	
5,700.00	5,686.69	5,695.16	5,669.32	14.65	16.06	-75.43	-398.65	-300.89	242.12	212.89	29.23	8.282	
5,800.00	5,786.44	5,795.01	5,768.58	14.91	16.37	-75.13	-407.16	-307.51	247.55	217.80	29.75	8.321	
5,900.00	5,886.19	5,894.85	5,867.84	15.17	16.67	-74.84	-415.68	-314.12	252.98	222.72	30.26	8.359	
6,000.00	5,985.95	5,994.69	5,967.10	15.43	16.98	-74.57	-424.19	-320.74	258.42	227.65	30.78	8.396	
6,100.00	6,085.70	6,094.54	6,066.36	15.70	17.29	-74.31	-432.71	-327.36	263.87	232.58	31.29	8.432	
6,200.00	6,185.46	6,194.38	6,165.62	15.96	17.59	-74.05	-441.22	-333.98	269.32	237.52	31.81	8.467	
6,300.00	6,285.21	6,294.23	6,264.88	16.22	17.90	-73.81	-449.74	-340.60	274.78	242.46	32.32	8.501	
6,400.00	6,384.96	6,394.07	6,364.14	16.49	18.20	-73.58	-458.25	-347.21	280.24	247.41	32.84	8.535	
6,500.00	6,484.72	6,493.92	6,463.40	16.75	18.51	-73.36	-466.77	-353.83	285.71	252.36	33.35	8.567	
6,600.00	6,584.47	6,593.76	6,562.66	17.01	18.81	-73.14	-475.28	-360.45	291.18	257.31	33.87	8.598	
6,700.00	6,684.22	6,693.61	6,661.92	17.27	19.12	-72.93	-483.80	-367.07	296.65	262.27	34.38	8.629	
6,800.00	6,783.98	6,793.45	6,761.18	17.54	19.43	-72.73	-492.31	-373.69	302.13	267.24	34.89	8.658	
6,900.00	6,883.73	6,893.29	6,860.44	17.80	19.73	-72.54	-500.82	-380.30	307.61	272.20	35.41	8.687	
7,000.00	6,983.49	6,993.14	6,959.70	18.06	20.04	-72.35	-509.34	-386.92	313.10	277.17	35.92	8.716	
7,100.00	7,083.24	7,092.98	7,058.96	18.33	20.34	-72.17	-517.85	-393.54	318.59	282.15	36.44	8.743	
7,200.00	7,182.99	7,192.83	7,158.22	18.59	20.65	-72.00	-526.37	-400.16	324.08	287.12	36.95	8.770	
7,300.00	7,282.75	7,292.57	7,261.44	18.85	20.92	-71.92	-534.59	-406.54	329.03	291.58	37.45	8.786	

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 OM07C
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 OM07C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07C	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	
7,400.00	7,382.50	7,400.76	7,365.28	19.11	21.12	-72.08	-541.36	-411.81	332.69	294.78	37.92	8.774	
7,430.72	7,413.15	7,432.78	7,397.22	19.19	21.18	-72.17	-543.14	-413.19	333.56	295.50	38.07	8.763	
7,500.00	7,482.28	7,505.00	7,469.30	19.35	21.31	-72.40	-546.64	-415.91	335.21	296.85	38.37	8.737	
7,600.00	7,582.16	7,609.26	7,573.45	19.52	21.48	-72.67	-550.43	-418.86	336.96	298.22	38.74	8.697	
7,700.00	7,682.11	7,713.54	7,677.69	19.69	21.64	-72.87	-552.72	-420.64	337.96	298.87	39.09	8.645	
7,800.00	7,782.10	7,817.83	7,781.97	19.84	21.79	-73.00	-553.51	-421.25	338.21	298.79	39.42	8.580	
7,816.22	7,798.32	7,833.89	7,798.03	19.87	21.82	-73.00	-553.52	-421.27	338.19	298.72	39.48	8.567	
7,832.90	7,815.00	7,850.21	7,814.35	19.89	21.85	171.98	-553.55	-421.32	338.21	297.43	40.78	8.294	
7,900.00	7,882.09	7,915.85	7,879.99	20.02	21.97	-67.96	-553.91	-421.94	338.34	298.54	39.79	8.502	
8,000.00	7,982.07	8,013.68	7,977.78	20.24	22.17	-67.89	-555.14	-424.06	338.51	298.29	40.22	8.417	
8,082.90	8,064.92	8,095.31	8,059.35	20.43	22.35	-67.84	-556.78	-426.90	338.63	298.03	40.60	8.342	
8,100.00	8,082.00	8,112.41	8,076.43	20.47	22.39	-67.84	-557.15	-427.55	338.63	297.95	40.68	8.325	
8,200.00	8,181.90	8,212.41	8,176.33	20.71	22.62	-67.84	-559.33	-431.32	338.63	297.49	41.14	8.231	
8,300.00	8,281.81	8,312.41	8,276.24	20.95	22.84	-67.84	-561.51	-435.10	338.63	297.02	41.61	8.139	
8,359.88	8,341.64	8,372.29	8,336.06	21.09	22.98	-67.84	-562.82	-437.36	338.63	296.74	41.89	8.084	
8,400.00	8,381.71	8,412.41	8,376.14	21.19	23.07	-67.84	-563.69	-438.88	338.63	296.55	42.07	8.048	
8,500.00	8,481.62	8,512.41	8,476.05	21.42	23.29	-67.84	-565.87	-442.66	338.63	296.09	42.54	7.960	
8,600.00	8,581.52	8,612.41	8,575.95	21.66	23.52	-67.84	-568.05	-446.43	338.63	295.62	43.01	7.874	
8,659.88	8,641.35	8,672.29	8,635.78	21.80	23.66	-67.84	-569.36	-448.70	338.63	295.34	43.29	7.823	
8,700.00	8,681.43	8,712.41	8,675.86	21.90	23.75	-67.84	-570.23	-450.21	338.63	295.15	43.48	7.789	
8,800.00	8,781.33	8,812.41	8,775.76	22.14	23.98	-67.84	-572.41	-453.99	338.63	294.68	43.94	7.706	
8,900.00	8,881.24	8,912.41	8,875.67	22.38	24.20	-67.84	-574.60	-457.77	338.63	294.22	44.41	7.625	
8,962.88	8,944.06	8,975.29	8,938.49	22.53	24.35	-67.84	-575.97	-460.14	338.63	293.92	44.71	7.575	
9,000.00	8,981.14	9,012.41	8,975.57	22.61	24.43	-67.84	-576.78	-461.54	338.63	293.75	44.88	7.545	
9,100.00	9,081.05	9,112.41	9,075.48	22.85	24.66	-67.84	-578.96	-465.32	338.63	293.28	45.35	7.467	
9,131.03	9,112.05	9,143.44	9,106.48	22.93	24.73	-67.84	-579.63	-466.49	338.63	293.14	45.49	7.444	
9,200.00	9,180.95	9,212.41	9,175.38	23.09	24.89	-67.84	-581.14	-469.10	338.63	292.81	45.82	7.391	
9,300.00	9,280.86	9,312.41	9,275.29	23.33	25.12	-67.84	-583.32	-472.88	338.63	292.34	46.28	7.316	
9,400.00	9,380.76	9,412.41	9,375.19	23.57	25.35	-67.84	-585.50	-476.65	338.63	291.88	46.75	7.243	
9,431.33	9,412.06	9,443.74	9,406.49	23.64	25.42	-67.84	-586.18	-477.84	338.63	291.73	46.90	7.220	
9,500.00	9,480.67	9,512.41	9,475.10	23.81	25.58	-67.84	-587.68	-480.43	338.63	291.41	47.22	7.171	
9,600.00	9,580.57	9,612.41	9,575.00	24.05	25.80	-67.84	-589.86	-484.21	338.63	290.94	47.69	7.101	
9,659.88	9,640.40	9,672.29	9,634.83	24.19	25.94	-67.84	-591.17	-486.47	338.63	290.66	47.97	7.059	
9,700.00	9,680.48	9,712.41	9,674.91	24.28	26.03	-67.84	-592.04	-487.99	338.63	290.47	48.16	7.031	
9,800.00	9,780.38	9,812.41	9,774.81	24.52	26.26	-67.84	-594.22	-491.77	338.63	290.00	48.63	6.964	
9,900.00	9,880.29	9,912.41	9,874.72	24.76	26.49	-67.84	-596.41	-495.54	338.63	289.53	49.10	6.897	
9,962.88	9,943.11	9,975.29	9,937.54	24.91	26.64	-67.84	-597.78	-497.92	338.63	289.24	49.39	6.856	
10,000.00	9,980.19	10,012.41	9,974.62	25.00	26.72	-67.84	-598.59	-499.32	338.63	289.06	49.57	6.832	
10,100.00	10,080.10	10,112.41	10,074.53	25.24	26.95	-67.84	-600.77	-503.10	338.63	288.59	50.04	6.768	
10,200.00	10,180.00	10,212.41	10,174.43	25.48	27.18	-67.84	-602.95	-506.88	338.63	288.12	50.51	6.705	
10,242.55	10,222.51	10,254.96	10,216.94	25.58	27.28	-67.84	-603.88	-508.48	338.63	287.92	50.71	6.678	
10,300.00	10,279.91	10,312.41	10,274.33	25.72	27.42	-67.84	-605.13	-510.65	338.63	287.65	50.98	6.643	
10,400.00	10,379.81	10,412.41	10,374.24	25.96	27.65	-67.84	-607.31	-514.43	338.63	287.18	51.45	6.582	
10,473.81	10,453.55	10,486.21	10,447.98	26.13	27.82	-67.84	-608.92	-517.22	338.63	286.83	51.79	6.538	
10,500.00	10,479.72	10,512.41	10,474.14	26.19	27.88	-67.84	-609.49	-518.21	338.63	286.71	51.92	6.523	
10,600.00	10,579.62	10,612.41	10,574.05	26.43	28.11	-67.84	-611.67	-521.99	338.63	286.24	52.39	6.464	
10,700.00	10,679.52	10,712.41	10,673.95	26.67	28.34	-67.84	-613.85	-525.76	338.63	285.77	52.86	6.407	
10,742.55	10,722.03	10,754.96	10,716.46	26.77	28.44	-67.84	-614.78	-527.37	338.63	285.57	53.06	6.382	
10,800.00	10,779.43	10,812.41	10,773.86	26.91	28.57	-67.84	-616.03	-529.54	338.63	285.30	53.33	6.350	
10,900.00	10,879.33	10,912.41	10,873.76	27.15	28.80	-67.84	-618.22	-533.32	338.63	284.83	53.80	6.294	
10,926.30	10,905.61	10,938.71	10,900.04	27.21	28.86	-67.84	-618.79	-534.31	338.63	284.71	53.92	6.280	
11,000.00	10,979.24	11,012.41	10,973.67	27.39	29.04	-67.84	-620.40	-537.10	338.63	284.36	54.27	6.240	

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

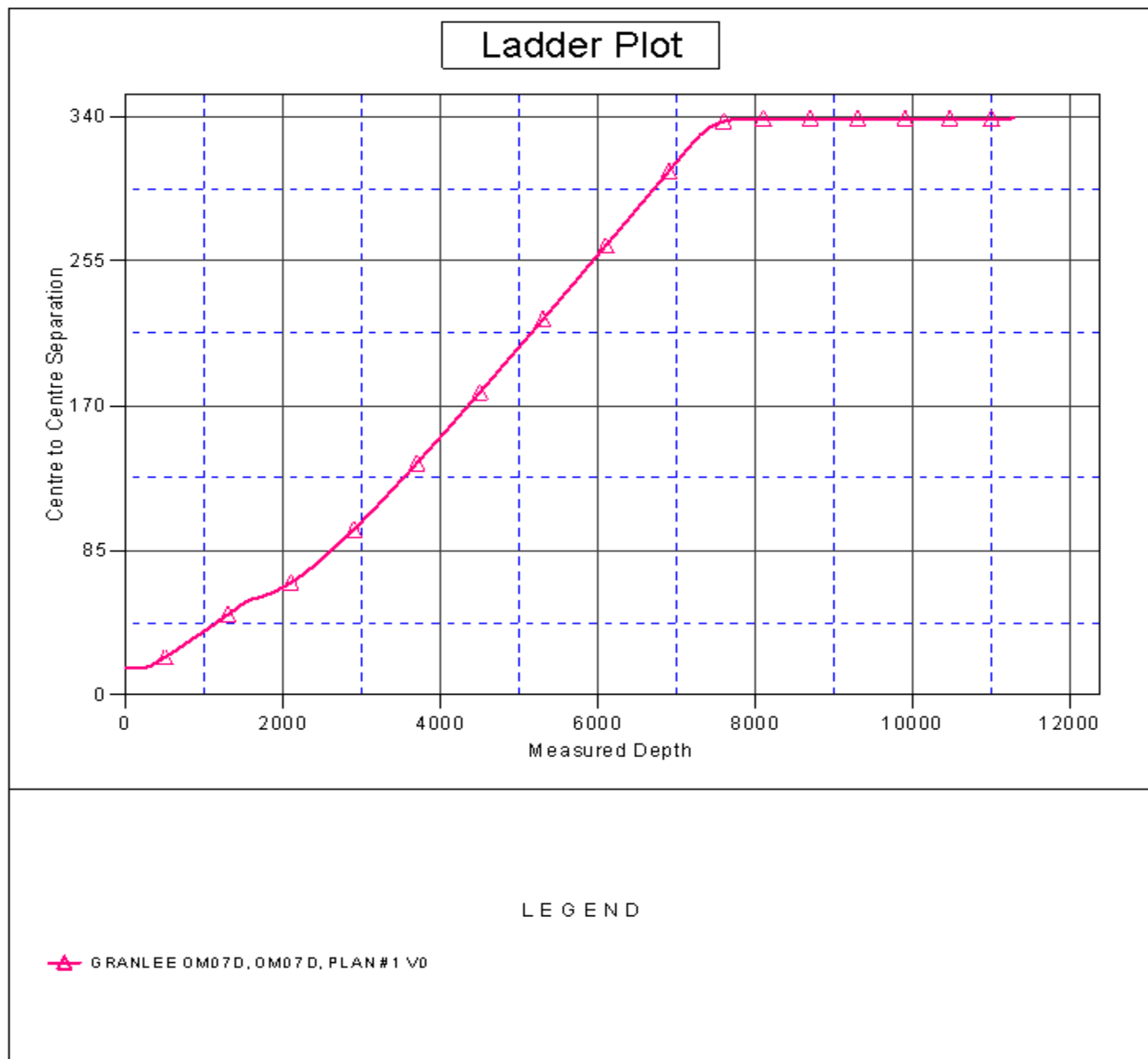


Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07C
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07C	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						
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
11,100.00	11,079.14	11,112.41	11,073.57	27.63	29.27	-67.84	-622.58	-540.87	338.63	283.89	54.74	6.186	
11,200.00	11,179.05	11,212.41	11,173.48	27.87	29.50	-67.84	-624.76	-544.65	338.63	283.42	55.21	6.133	
11,240.96	11,219.97	11,253.37	11,214.40	27.97	29.59	-67.84	-625.65	-546.20	338.63	283.22	55.40	6.112	
11,286.03	11,265.00	11,273.99	11,235.00	28.07	29.64	-67.84	-626.10	-546.98	339.51	283.95	55.56	6.111 SF	

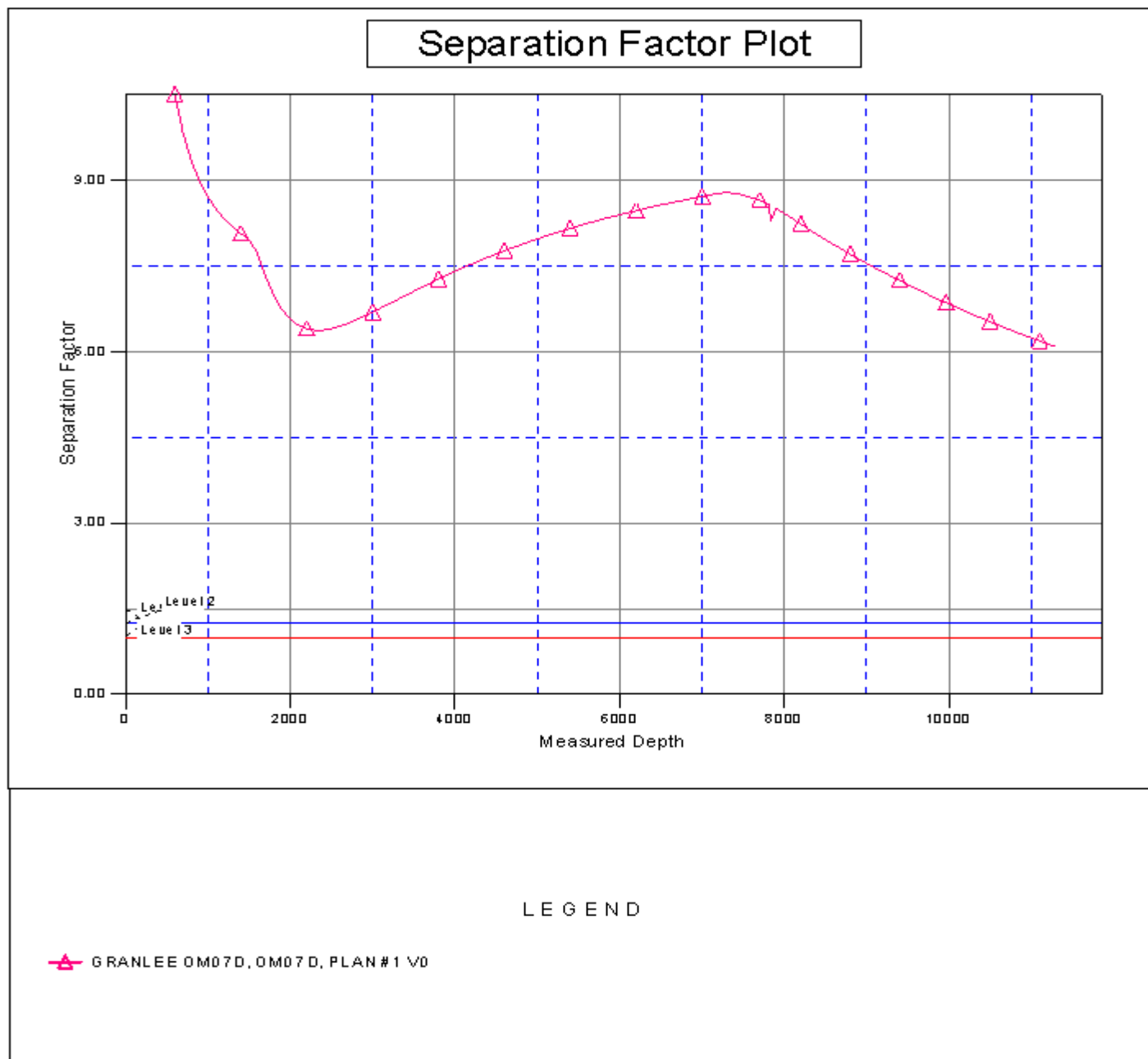
Company:	BERRY PETROLEUM COMPANY	Local Co-ordinate Reference:	Well GRANLEE OM07C
Project:	GARFIELD COUNTY, COLORADO	TVD Reference:	WELL @ 8185.50ft (Original Well Elev)
Reference Site:	OM G03 696 PAD	MD Reference:	WELL @ 8185.50ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	GRANLEE OM07C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07C	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 OM07C
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 OM07C
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 OM07C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	OM07C	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 OM07C
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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