



Drilling Services

Proposal

BERRY PETROLEUM COMPANY

BERRY 11-16D

GARFIELD COUNTY, CO

WELL FILE:PLAN 1

JUNE 25, 2007

Weatherford International Ltd.

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Berry Petroleum Company

BERRY 11-16D
1609' FSL, 738' FEL
SECTION 11-T6S-R97W
GARFIELD COUNTY, CO.

SITE DETAILS

BERRY 11-15D PAD
SECTION 11-T6S-R97W
1615' FSL, 753' FEL

Site Centre Latitude: 39°32'04.776N
Longitude: 108°10'50.664W

Ground Level: 8151.00
Positional Uncertainty: 0.00
Convergence: -1.69

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	315.57	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	315.57	600.00	0.00	0.00	0.00	0.00	0.00	
3	1273.23	13.46	315.57	1267.05	56.23	-55.12	2.00	315.57	78.74	
4	5334.72	13.46	315.57	5216.91	731.60	-717.09	0.00	0.00	1024.43	
5	6681.17	0.00	315.57	6551.00	844.07	-827.32	1.00	180.00	1181.91	
6	9406.17	0.00	315.57	9276.00	844.07	-827.32	0.00	315.57	1181.91	11-16D_PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
BERRY 11-16D	-6.76	14.81	1630779.24	2244038.25	39°32'04.709N	108°10'50.475W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
11-16D_PBHL	9276.00	844.07	-827.32	1631647.35	2243236.19	Rectangle (100x200)

FIELD DETAILS

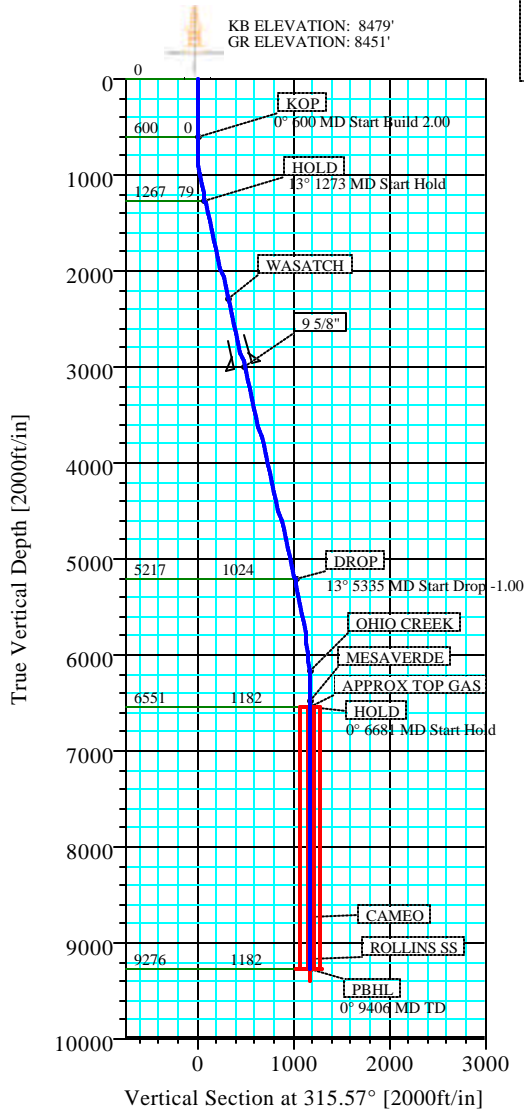
GARFIELD COUNTY (NAD 83)
COLORADO

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: colorado, central zone
Magnetic Model: bbgm2006

System Datum: Mean Sea Level
Local North: True North

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	2301.00	2336.40	WASATCH
2	6176.00	6305.90	OHIO CREEK
3	6476.00	6606.17	MESAVERDE
4	6551.00	6681.17	APPROX TOP GAS
5	8726.00	8856.17	CAMEO
6	9176.00	9306.17	ROLLINS SS



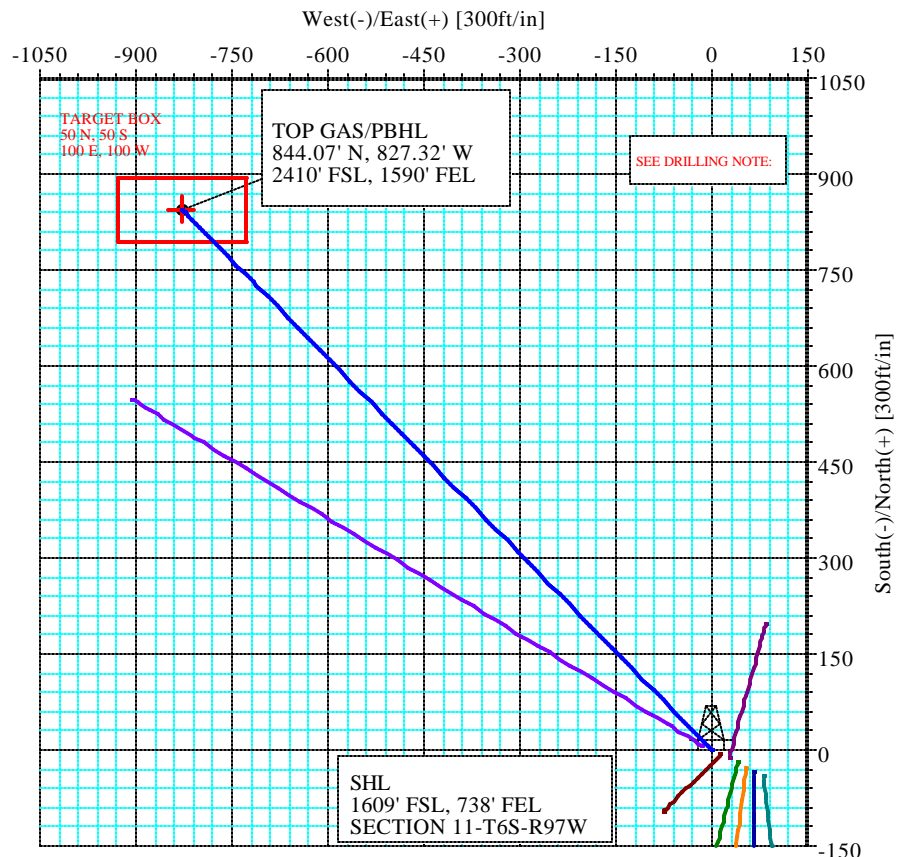
-DRILLING NOTE-
TO ACCOUNT FOR THE 240° DRIFT IN AZIMUTH, AIM
FOR THE NE SIDE OF PBHL, AND
BE IN THE TARGET WINDOW BY THE TOP GAS AND STAY
WITHIN THE WINDOW TO TD. DO NOT GO OUTSIDE THE
WINDOW.



Azimuths to True North
Magnetic North: 10.98°

Magnetic Field
Strength: 52702nT
Dip Angle: 65.88°
Date: 6/25/2007
Model: bbgm2006

TOTAL CORRECTION TO TRUE NORTH 10.98°



Plan: Plan #1 (BERRY 11-16D/1)

Created By: ROBERT SCOTT

Date: 6/25/2007

Weatherford International, Ltd.

PLAN REPORT

Company: BERRY PETROLEUM COMPANY				Date: 6/25/2007		Time: 12:44:51		Page: 1	
Field: GARFIELD COUNTY (NAD 83)				Co-ordinate(NE) Reference:		Well: BERRY 11-16D, True North			
Site: BERRY 11-15D PAD				Vertical (TVD) Reference:		SITE 8179.0			
Well: BERRY 11-16D				Section (VS) Reference:		Well (0.00N,0.00E,315.57Azi)			
Wellpath: 1				Survey Calculation Method:		Minimum Curvature		Db: Sybase	

Field: GARFIELD COUNTY (NAD 83) COLORADO			
Map System: US State Plane Coordinate System 1983		Map Zone: colorado, central zone	
Geo Datum: GRS 1980		Coordinate System: Well Centre	
Sys Datum: Mean Sea Level		Geomagnetic Model: bggm2006	

Site: BERRY 11-15D PAD SECTION 11-T6S-R97W 1615' FSL, 753' FEL			
Site Position:	Northing: 1630786.44 ft	Latitude: 39 32 4.776 N	
From: Geographic	Easting: 2244023.65 ft	Longitude: 108 10 50.664 W	
Position Uncertainty: 0.00 ft		North Reference: True	
Ground Level: 8151.00 ft		Grid Convergence: -1.69 deg	

Well: BERRY 11-16D 1609' FSL, 738' FEL				Slot Name:			
Well Position:	+N/-S -6.76 ft	Northing: 1630779.24 ft	Latitude: 39 32 4.709 N				
	+E/-W 14.81 ft	Easting : 2244038.25 ft	Longitude: 108 10 50.475 W				
Position Uncertainty: 0.00 ft							

Wellpath: 1				Drilled From: Surface			
Current Datum: SITE				Tie-on Depth: 0.00 ft			
Magnetic Data: 6/25/2007				Above System Datum: Mean Sea Level			
Field Strength: 52702 nT				Declination: 10.98 deg			
Vertical Section: Depth From (TVD)				Mag Dip Angle: 65.88 deg			
	ft	+N/-S ft	+E/-W ft	Direction deg			
0.00		0.00	0.00	315.57			

Plan: Plan #1		Date Composed: 6/25/2007	
Principal: Yes		Version: 1	
		Tied-to: From Surface	

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	315.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	315.57	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1273.23	13.46	315.57	1267.05	56.23	-55.12	2.00	2.00	0.00	315.57	
5334.72	13.46	315.57	5216.91	731.60	-717.09	0.00	0.00	0.00	0.00	
6681.17	0.00	315.57	6551.00	844.07	-827.32	1.00	-1.00	0.00	180.00	
9406.17	0.00	315.57	9276.00	844.07	-827.32	0.00	0.00	0.00	315.57	11-16D_PBHL

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
600.00	0.00	315.57	600.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
700.00	2.00	315.57	699.98	1.25	-1.22	1.75	2.00	2.00	0.00	
800.00	4.00	315.57	799.84	4.98	-4.88	6.98	2.00	2.00	0.00	
900.00	6.00	315.57	899.45	11.21	-10.99	15.69	2.00	2.00	0.00	
1000.00	8.00	315.57	998.70	19.91	-19.52	27.88	2.00	2.00	0.00	
1100.00	10.00	315.57	1097.47	31.08	-30.47	43.52	2.00	2.00	0.00	
1200.00	12.00	315.57	1195.62	44.71	-43.82	62.60	2.00	2.00	0.00	
1273.23	13.46	315.57	1267.05	56.23	-55.12	78.74	2.00	2.00	0.00	HOLD
1300.00	13.46	315.57	1293.08	60.69	-59.48	84.97	0.00	0.00	0.00	
1400.00	13.46	315.57	1390.34	77.31	-75.78	108.26	0.00	0.00	0.00	
1500.00	13.46	315.57	1487.59	93.94	-92.08	131.54	0.00	0.00	0.00	
1600.00	13.46	315.57	1584.84	110.57	-108.38	154.83	0.00	0.00	0.00	
1700.00	13.46	315.57	1682.09	127.20	-124.68	178.11	0.00	0.00	0.00	
1800.00	13.46	315.57	1779.34	143.83	-140.98	201.40	0.00	0.00	0.00	
1900.00	13.46	315.57	1876.59	160.46	-157.27	224.68	0.00	0.00	0.00	

Weatherford International, Ltd.

PLAN REPORT

Company: BERRY PETROLEUM COMPANY Field: GARFIELD COUNTY (NAD 83) Site: BERRY 11-15D PAD Well: BERRY 11-16D Wellpath: 1	Date: 6/25/2007 Co-ordinate(NE) Reference: Well: BERRY 11-16D, True North Vertical (TVD) Reference: SITE 8179.0 Section (VS) Reference: Well (0.00N,0.00E,315.57Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
2000.00	13.46	315.57	1973.84	177.09	-173.57	247.96	0.00	0.00	0.00	
2100.00	13.46	315.57	2071.10	193.71	-189.87	271.25	0.00	0.00	0.00	
2200.00	13.46	315.57	2168.35	210.34	-206.17	294.53	0.00	0.00	0.00	
2300.00	13.46	315.57	2265.60	226.97	-222.47	317.82	0.00	0.00	0.00	
2336.40	13.46	315.57	2301.00	233.02	-228.40	326.29	0.00	0.00	0.00	WASATCH
2400.00	13.46	315.57	2362.85	243.60	-238.77	341.10	0.00	0.00	0.00	
2500.00	13.46	315.57	2460.10	260.23	-255.07	364.39	0.00	0.00	0.00	
2600.00	13.46	315.57	2557.35	276.86	-271.36	387.67	0.00	0.00	0.00	
2700.00	13.46	315.57	2654.60	293.49	-287.66	410.95	0.00	0.00	0.00	
2800.00	13.46	315.57	2751.86	310.11	-303.96	434.24	0.00	0.00	0.00	
2900.00	13.46	315.57	2849.11	326.74	-320.26	457.52	0.00	0.00	0.00	
3000.00	13.46	315.57	2946.36	343.37	-336.56	480.81	0.00	0.00	0.00	
3055.16	13.46	315.57	3000.00	352.54	-345.55	493.65	0.00	0.00	0.00	9 5/8"
3100.00	13.46	315.57	3043.61	360.00	-352.86	504.09	0.00	0.00	0.00	
3200.00	13.46	315.57	3140.86	376.63	-369.16	527.38	0.00	0.00	0.00	
3300.00	13.46	315.57	3238.11	393.26	-385.46	550.66	0.00	0.00	0.00	
3400.00	13.46	315.57	3335.36	409.89	-401.75	573.94	0.00	0.00	0.00	
3500.00	13.46	315.57	3432.62	426.51	-418.05	597.23	0.00	0.00	0.00	
3600.00	13.46	315.57	3529.87	443.14	-434.35	620.51	0.00	0.00	0.00	
3700.00	13.46	315.57	3627.12	459.77	-450.65	643.80	0.00	0.00	0.00	
3800.00	13.46	315.57	3724.37	476.40	-466.95	667.08	0.00	0.00	0.00	
3900.00	13.46	315.57	3821.62	493.03	-483.25	690.37	0.00	0.00	0.00	
4000.00	13.46	315.57	3918.87	509.66	-499.55	713.65	0.00	0.00	0.00	
4100.00	13.46	315.57	4016.12	526.29	-515.85	736.93	0.00	0.00	0.00	
4200.00	13.46	315.57	4113.38	542.91	-532.14	760.22	0.00	0.00	0.00	
4300.00	13.46	315.57	4210.63	559.54	-548.44	783.50	0.00	0.00	0.00	
4400.00	13.46	315.57	4307.88	576.17	-564.74	806.79	0.00	0.00	0.00	
4500.00	13.46	315.57	4405.13	592.80	-581.04	830.07	0.00	0.00	0.00	
4600.00	13.46	315.57	4502.38	609.43	-597.34	853.36	0.00	0.00	0.00	
4700.00	13.46	315.57	4599.63	626.06	-613.64	876.64	0.00	0.00	0.00	
4800.00	13.46	315.57	4696.88	642.69	-629.94	899.92	0.00	0.00	0.00	
4900.00	13.46	315.57	4794.14	659.31	-646.24	923.21	0.00	0.00	0.00	
5000.00	13.46	315.57	4891.39	675.94	-662.53	946.49	0.00	0.00	0.00	
5100.00	13.46	315.57	4988.64	692.57	-678.83	969.78	0.00	0.00	0.00	
5200.00	13.46	315.57	5085.89	709.20	-695.13	993.06	0.00	0.00	0.00	
5300.00	13.46	315.57	5183.14	725.83	-711.43	1016.35	0.00	0.00	0.00	
5334.72	13.46	315.57	5216.91	731.60	-717.09	1024.43	0.00	0.00	0.00	DROP
5400.00	12.81	315.57	5280.48	742.20	-727.48	1039.27	1.00	-1.00	0.00	
5500.00	11.81	315.57	5378.18	757.43	-742.40	1060.59	1.00	-1.00	0.00	
5600.00	10.81	315.57	5476.23	771.43	-756.13	1080.21	1.00	-1.00	0.00	
5700.00	9.81	315.57	5574.62	784.22	-768.66	1098.11	1.00	-1.00	0.00	
5800.00	8.81	315.57	5673.30	795.77	-779.99	1114.29	1.00	-1.00	0.00	
5900.00	7.81	315.57	5772.25	806.10	-790.11	1128.74	1.00	-1.00	0.00	
6000.00	6.81	315.57	5871.43	815.18	-799.01	1141.47	1.00	-1.00	0.00	
6100.00	5.81	315.57	5970.83	823.04	-806.71	1152.46	1.00	-1.00	0.00	
6200.00	4.81	315.57	6070.39	829.65	-813.19	1161.72	1.00	-1.00	0.00	
6300.00	3.81	315.57	6170.11	835.02	-818.45	1169.24	1.00	-1.00	0.00	
6305.90	3.75	315.57	6176.00	835.29	-818.73	1169.63	1.00	-1.00	0.00	OHIO CREEK
6400.00	2.81	315.57	6269.94	839.14	-822.50	1175.01	1.00	-1.00	0.00	
6500.00	1.81	315.57	6369.86	842.02	-825.32	1179.05	1.00	-1.00	0.00	
6600.00	0.81	315.57	6469.83	843.66	-826.92	1181.34	1.00	-1.00	0.00	
6606.17	0.75	315.57	6476.00	843.72	-826.98	1181.42	1.00	-1.00	0.00	MESAVERDE
6681.17	0.00	315.57	6551.00	844.07	-827.32	1181.91	1.00	-1.00	0.00	APPROX TOP GAS

Weatherford International, Ltd.

PLAN REPORT

Company: BERRY PETROLEUM COMPANY Field: GARFIELD COUNTY (NAD 83) Site: BERRY 11-15D PAD Well: BERRY 11-16D Wellpath: 1	Date: 6/25/2007 Co-ordinate(NE) Reference: Well: BERRY 11-16D, True North Vertical (TVD) Reference: SITE 8179.0 Section (VS) Reference: Well (0.00N,0.00E,315.57Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
6700.00	0.00	315.57	6569.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
6800.00	0.00	315.57	6669.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
6900.00	0.00	315.57	6769.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7000.00	0.00	315.57	6869.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7100.00	0.00	315.57	6969.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7200.00	0.00	315.57	7069.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7300.00	0.00	315.57	7169.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7400.00	0.00	315.57	7269.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7500.00	0.00	315.57	7369.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7600.00	0.00	315.57	7469.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7700.00	0.00	315.57	7569.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7800.00	0.00	315.57	7669.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
7900.00	0.00	315.57	7769.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8000.00	0.00	315.57	7869.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8100.00	0.00	315.57	7969.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8200.00	0.00	315.57	8069.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8300.00	0.00	315.57	8169.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8400.00	0.00	315.57	8269.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8500.00	0.00	315.57	8369.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8600.00	0.00	315.57	8469.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8700.00	0.00	315.57	8569.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8800.00	0.00	315.57	8669.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
8856.17	0.00	315.57	8726.00	844.07	-827.32	1181.91	0.00	0.00	0.00	CAMEO
8900.00	0.00	315.57	8769.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
9000.00	0.00	315.57	8869.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
9100.00	0.00	315.57	8969.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
9200.00	0.00	315.57	9069.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
9300.00	0.00	315.57	9169.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
9306.17	0.00	315.57	9176.00	844.07	-827.32	1181.91	0.00	0.00	0.00	ROLLINS SS
9400.00	0.00	315.57	9269.83	844.07	-827.32	1181.91	0.00	0.00	0.00	
9406.17	0.00	315.57	9276.00	844.07	-827.32	1181.91	0.00	0.00	0.00	11-16D_PBHL

Annotation

MD ft	TVD ft	
600.00	600.00	KOP
1273.23	1267.05	HOLD
5334.72	5216.91	DROP
6681.17	6551.00	HOLD
9406.17	9276.00	PBHL

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec				
11-16D_PBHL -Rectangle (100x200) -Plan hit target			9276.00	844.07	-827.32	1631647.35	2243236.19	39	32	13.051	N	108	11	1.035	W

Weatherford International, Ltd.

Anticollision Report

Company: BERRY PETROLEUM COMPANY Field: GARFIELD COUNTY (NAD 83) Reference Site: BERRY 11-15D PAD Reference Well: BERRY 11-16D Reference Wellpath: 1	Date: 6/25/2007 Co-ordinate(NE) Reference: Vertical (TVD) Reference:	Time: 12:56:40 Well: BERRY 11-16D, True North SITE 8179.0	Page: 1 Db: Sybase
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NO GLOBAL SCAN: Using user defined selection & scan criteria Interpolation Method: MD Interval: 100.00 ft Depth Range: 0.00 to 14724.89 ft Maximum Radius: 10000.00 ft	Reference: Plan: Plan #1 Error Model: ISCWSA Ellipse Scan Method: Closest Approach 3D Error Surface: Ellipse
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Plan: Plan #1 Principal: Yes	Date Composed: 6/25/2007 Version: 1 Tied-to: From Surface
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Summary

<----- Offset Wellpath ----->	Reference	Offset	Ctr-Ctr	Edge	Separation	Warning
Site Well Wellpath	MD ft	MD ft	Distance ft	Distance ft	Factor	
BERRY 11-15D PAD BERRY 11-15D	1 V0 Plan: Plan #1 V1	2000.00	1992.81	65.05	52.59	5.22
BERRY 11-15D PAD BERRY 11-5D	1 V0 Plan: Plan #1 V1	700.00	699.98	16.10	13.24	5.63

Site: BERRY 11-15D PAD
Well: BERRY 11-15D
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference	Offset	Semi-Major Axis	Offset Location	Ctr-Ctr	Edge	Separation	Warning			
MD ft	TVD ft	Ref ft Offset ft TFO-HS deg	North ft East ft	Distance ft	Distance ft	Factor				
0.00	0.00	0.00	0.00	0.00	0.00	294.54	6.76 -14.81	16.28		No Data
100.00	100.00	100.00	100.00	0.08	0.08	294.54	6.76 -14.81	16.28	16.11	100.57
200.00	200.00	200.00	200.00	0.31	0.31	294.54	6.76 -14.81	16.28	15.66	26.62
300.00	300.00	300.00	300.00	0.53	0.53	294.54	6.76 -14.81	16.28	15.22	15.34
400.00	400.00	400.00	400.00	0.76	0.76	294.54	6.76 -14.81	16.28	14.77	10.78
500.00	500.00	500.00	500.00	0.98	0.98	294.54	6.76 -14.81	16.28	14.32	8.30
600.00	600.00	599.40	599.38	1.20	1.20	295.18	7.65 -16.28	18.00	15.59	7.47
700.00	699.98	698.66	698.50	1.43	1.43	339.48	10.33 -20.69	21.54	18.68	7.54
800.00	799.84	797.78	797.24	1.66	1.67	337.48	14.78 -28.02	25.26	21.96	7.65
900.00	899.45	896.76	895.49	1.90	1.93	334.39	20.99 -38.26	29.24	25.49	7.80
1000.00	998.70	995.59	993.13	2.16	2.23	330.68	28.94 -51.36	33.57	29.36	7.97
1100.00	1097.47	1094.57	1090.33	2.45	2.57	326.62	38.60 -67.28	38.24	33.54	8.13
1200.00	1195.62	1194.44	1188.23	2.79	2.95	321.05	48.85 -84.16	41.22	35.96	7.83
1300.00	1293.08	1294.27	1286.08	3.17	3.33	313.10	59.09 -101.04	42.18	36.24	7.10
1400.00	1390.34	1394.06	1383.90	3.59	3.73	304.63	69.33 -117.92	43.36	36.62	6.43
1500.00	1487.59	1493.85	1481.73	4.03	4.14	296.77	79.57 -134.79	45.44	37.80	5.94
1600.00	1584.84	1593.64	1579.55	4.48	4.55	289.71	89.81 -151.66	48.29	39.70	5.62
1700.00	1682.09	1693.44	1677.37	4.93	4.97	283.52	100.05 -168.53	51.80	42.22	5.41
1800.00	1779.34	1793.23	1775.19	5.40	5.38	278.17	110.29 -185.41	55.82	45.27	5.29
1900.00	1876.59	1893.02	1873.01	5.87	5.81	273.56	120.53 -202.28	60.27	48.76	5.23
2000.00	1973.84	1992.81	1970.83	6.34	6.23	269.61	130.77 -219.15	65.05	52.59	5.22
2100.00	2071.10	2092.61	2068.65	6.82	6.65	266.22	141.01 -236.02	70.10	56.70	5.23
2200.00	2168.35	2192.40	2166.47	7.29	7.08	263.29	151.25 -252.90	75.36	61.04	5.26
2300.00	2265.60	2292.19	2264.29	7.78	7.51	260.74	161.49 -269.77	80.79	65.57	5.31
2400.00	2362.85	2391.98	2362.12	8.26	7.94	258.52	171.73 -286.64	86.36	70.24	5.36
2500.00	2460.10	2491.77	2459.94	8.74	8.36	256.58	181.97 -303.52	92.04	75.04	5.41
2600.00	2557.35	2591.57	2557.76	9.23	8.79	254.86	192.21 -320.39	97.82	79.94	5.47
2700.00	2654.60	2691.36	2655.58	9.71	9.22	253.33	202.45 -337.26	103.68	84.92	5.53
2800.00	2751.86	2791.15	2753.40	10.20	9.66	251.97	212.69 -354.13	109.60	89.98	5.59
2900.00	2849.11	2890.94	2851.22	10.69	10.09	250.74	222.93 -371.01	115.57	95.09	5.64
3000.00	2946.36	2990.74	2949.04	11.17	10.52	249.64	233.17 -387.88	121.60	100.26	5.70
3100.00	3043.61	3090.53	3046.86	11.66	10.95	248.64	243.40 -404.75	127.66	105.47	5.75
3200.00	3140.86	3190.32	3144.69	12.15	11.38	247.73	253.64 -421.63	133.76	110.72	5.80
3300.00	3238.11	3290.11	3242.51	12.64	11.81	246.91	263.88 -438.50	139.89	116.00	5.85
3400.00	3335.36	3389.91	3340.33	13.13	12.25	246.15	274.12 -455.37	146.05	121.31	5.90
3500.00	3432.62	3489.70	3438.15	13.62	12.68	245.45	284.36 -472.24	152.23	126.64	5.95

Weatherford International, Ltd.

Anticollision Report

Company:	BERRY PETROLEUM COMPANY	Date:	6/25/2007	Time:	12:56:40	Page:	2
Field:	GARFIELD COUNTY (NAD 83)	Co-ordinate(NE) Reference:	Well: BERRY 11-16D, True North				
Reference Site:	BERRY 11-15D PAD	Vertical (TVD) Reference:	SITE 8179.0				
Reference Well:	BERRY 11-16D						
Reference Wellpath:	1	Db: Sybase					

Site: BERRY 11-15D PAD
Well: BERRY 11-15D
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3600.00	3529.87	3589.49	3535.97	14.11	13.11	244.81	294.60	-489.12	158.43	132.00	5.99	
3700.00	3627.12	3689.28	3633.79	14.60	13.55	244.21	304.84	-505.99	164.65	137.37	6.04	
3800.00	3724.37	3789.08	3731.61	15.09	13.98	243.66	315.08	-522.86	170.89	142.77	6.08	
3900.00	3821.62	3888.87	3829.43	15.59	14.41	243.15	325.32	-539.73	177.14	148.18	6.12	
4000.00	3918.87	3988.66	3927.25	16.08	14.85	242.68	335.56	-556.61	183.40	153.60	6.15	
4100.00	4016.12	4088.45	4025.08	16.57	15.28	242.23	345.80	-573.48	189.68	159.04	6.19	
4200.00	4113.38	4188.25	4122.90	17.06	15.71	241.81	356.04	-590.35	195.96	164.48	6.23	
4300.00	4210.63	4288.04	4220.72	17.55	16.15	241.42	366.28	-607.23	202.26	169.94	6.26	
4400.00	4307.88	4387.83	4318.54	18.05	16.58	241.05	376.52	-624.10	208.56	175.41	6.29	
4500.00	4405.13	4487.62	4416.36	18.54	17.02	240.71	386.76	-640.97	214.87	180.89	6.32	
4600.00	4502.38	4587.42	4514.18	19.03	17.45	240.38	397.00	-657.84	221.19	186.37	6.35	
4700.00	4599.63	4687.21	4612.00	19.52	17.88	240.07	407.24	-674.72	227.52	191.86	6.38	
4800.00	4696.88	4787.00	4709.82	20.02	18.32	239.78	417.48	-691.59	233.85	197.36	6.41	
4900.00	4794.14	4886.79	4807.65	20.51	18.75	239.51	427.72	-708.46	240.19	202.86	6.43	
5000.00	4891.39	4986.59	4905.47	21.00	19.19	239.25	437.96	-725.34	246.54	208.37	6.46	
5100.00	4988.64	5086.38	5003.29	21.49	19.62	239.00	448.20	-742.21	252.88	213.88	6.48	
5200.00	5085.89	5186.17	5101.11	21.99	20.06	238.76	458.43	-759.08	259.24	219.40	6.51	
5300.00	5183.14	5285.96	5198.93	22.48	20.49	238.54	468.67	-775.95	265.60	224.92	6.53	
5400.00	5280.48	5385.77	5296.77	22.93	20.93	238.35	478.92	-792.83	271.76	230.28	6.55	
5500.00	5378.18	5485.60	5394.62	23.30	21.36	238.46	489.16	-809.71	277.07	234.82	6.56	
5600.00	5476.23	5584.05	5491.30	23.64	21.69	238.68	498.81	-825.62	281.74	238.83	6.57	
5700.00	5574.62	5682.51	5588.29	23.96	21.99	238.88	507.61	-840.11	286.02	242.48	6.57	
5800.00	5673.30	5781.00	5685.58	24.27	22.27	239.04	515.53	-853.17	289.90	245.78	6.57	
5900.00	5772.25	5879.49	5783.13	24.55	22.54	239.17	522.60	-864.81	293.38	248.73	6.57	
6000.00	5871.43	5978.00	5880.91	24.80	22.78	239.28	528.79	-875.01	296.46	251.32	6.57	
6100.00	5970.83	6076.51	5978.89	25.04	23.01	239.35	534.10	-883.77	299.14	253.55	6.56	
6200.00	6070.39	6175.03	6077.03	25.26	23.21	239.40	538.55	-891.09	301.42	255.42	6.55	
6300.00	6170.11	6273.55	6175.31	25.45	23.40	239.43	542.11	-896.97	303.29	256.92	6.54	
6400.00	6269.94	6372.08	6273.70	25.62	23.56	239.43	544.80	-901.40	304.75	258.07	6.53	
6500.00	6369.86	6470.60	6372.16	25.77	23.71	239.41	546.61	-904.39	305.81	258.84	6.51	
6600.00	6469.83	6569.12	6470.66	25.90	23.83	239.36	547.55	-905.92	306.47	259.26	6.49	
6700.00	6569.83	6668.29	6569.83	26.01	23.95	194.89	547.69	-906.15	306.68	272.96	9.09	
6800.00	6669.83	6768.29	6669.83	26.13	24.08	194.89	547.69	-906.15	306.68	272.60	9.00	
6900.00	6769.83	6868.29	6769.83	26.25	24.21	194.89	547.69	-906.15	306.68	272.23	8.90	
7000.00	6869.83	6968.29	6869.83	26.37	24.34	194.89	547.69	-906.15	306.68	271.86	8.81	
7100.00	6969.83	7068.29	6969.83	26.49	24.48	194.89	547.69	-906.15	306.68	271.49	8.71	
7200.00	7069.83	7168.29	7069.83	26.61	24.61	194.89	547.69	-906.15	306.68	271.11	8.62	
7300.00	7169.83	7268.29	7169.83	26.74	24.75	194.89	547.69	-906.15	306.68	270.73	8.53	
7400.00	7269.83	7368.29	7269.83	26.86	24.89	194.89	547.69	-906.15	306.68	270.35	8.44	
7500.00	7369.83	7468.29	7369.83	26.99	25.02	194.89	547.69	-906.15	306.68	269.97	8.35	
7600.00	7469.83	7568.29	7469.83	27.12	25.16	194.89	547.69	-906.15	306.68	269.59	8.27	
7700.00	7569.83	7668.29	7569.83	27.25	25.31	194.89	547.69	-906.15	306.68	269.21	8.18	
7800.00	7669.83	7768.29	7669.83	27.38	25.45	194.89	547.69	-906.15	306.68	268.82	8.10	
7900.00	7769.83	7868.29	7769.83	27.51	25.59	194.89	547.69	-906.15	306.68	268.44	8.02	
8000.00	7869.83	7968.29	7869.83	27.64	25.74	194.89	547.69	-906.15	306.68	268.05	7.94	
8100.00	7969.83	8068.29	7969.83	27.78	25.88	194.89	547.69	-906.15	306.68	267.66	7.86	
8200.00	8069.83	8168.29	8069.83	27.91	26.03	194.89	547.69	-906.15	306.68	267.27	7.78	
8300.00	8169.83	8268.29	8169.83	28.05	26.18	194.89	547.69	-906.15	306.68	266.88	7.70	
8400.00	8269.83	8368.29	8269.83	28.19	26.33	194.89	547.69	-906.15	306.68	266.49	7.63	
8500.00	8369.83	8468.29	8369.83	28.33	26.48	194.89	547.69	-906.15	306.68	266.09	7.56	
8600.00	8469.83	8568.29	8469.83	28.47	26.63	194.89	547.69	-906.15	306.68	265.70	7.48	

Weatherford International, Ltd.

Anticollision Report

Company:	BERRY PETROLEUM COMPANY	Date:	6/25/2007	Time:	12:56:40	Page:	3
Field:	GARFIELD COUNTY (NAD 83)						
Reference Site:	BERRY 11-15D PAD	Co-ordinate(NE) Reference:	Well: BERRY 11-16D, True North				
Reference Well:	BERRY 11-16D	Vertical (TVD) Reference:	SITE 8179.0				
Reference Wellpath:	1					Db:	Sybase

Site: BERRY 11-15D PAD
Well: BERRY 11-15D
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8700.00	8569.83	8668.29	8569.83	28.61	26.78	194.89	547.69	-906.15	306.68	265.30	7.41	
8800.00	8669.83	8768.29	8669.83	28.75	26.94	194.89	547.69	-906.15	306.68	264.90	7.34	
8900.00	8769.83	8868.29	8769.83	28.89	27.09	194.89	547.69	-906.15	306.68	264.51	7.27	
9000.00	8869.83	8968.29	8869.83	29.04	27.25	194.89	547.69	-906.15	306.68	264.11	7.20	
9100.00	8969.83	9068.29	8969.83	29.18	27.40	194.89	547.69	-906.15	306.68	263.71	7.14	
9200.00	9069.83	9168.29	9069.83	29.33	27.56	194.89	547.69	-906.15	306.68	263.30	7.07	
9300.00	9169.83	9268.29	9169.83	29.48	27.72	194.89	547.69	-906.15	306.68	262.90	7.00	
9400.00	9269.83	9349.46	9251.00	29.62	27.85	194.89	547.69	-906.15	307.26	263.12	6.96	

Site: BERRY 11-15D PAD
Well: BERRY 11-5D
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	117.47	-6.66	12.81	14.44			No Data
100.00	100.00	100.00	100.00	0.08	0.08	117.47	-6.66	12.81	14.44	14.27	89.20	
200.00	200.00	200.00	200.00	0.31	0.31	117.47	-6.66	12.81	14.44	13.82	23.61	
300.00	300.00	300.00	300.00	0.53	0.53	117.47	-6.66	12.81	14.44	13.37	13.61	
400.00	400.00	400.00	400.00	0.76	0.76	117.47	-6.66	12.81	14.44	12.93	9.56	
500.00	500.00	500.00	500.00	0.98	0.98	117.47	-6.66	12.81	14.44	12.48	7.37	
600.00	600.00	600.00	600.00	1.20	1.20	117.47	-6.66	12.81	14.44	12.03	5.99	
700.00	699.98	699.98	699.98	1.43	1.43	163.82	-6.66	12.81	16.10	13.24	5.63	
800.00	799.84	799.84	799.84	1.66	1.65	167.74	-6.66	12.81	21.18	17.87	6.40	
900.00	899.45	899.45	899.45	1.90	1.88	171.28	-6.66	12.81	29.75	26.00	7.92	
1000.00	998.70	998.70	998.70	2.16	2.10	173.79	-6.66	12.81	41.84	37.64	9.96	
1100.00	1097.47	1097.47	1097.47	2.45	2.32	175.45	-6.66	12.81	57.42	52.77	12.35	
1200.00	1195.62	1195.62	1195.62	2.79	2.54	176.56	-6.66	12.81	76.45	71.35	14.99	
1300.00	1293.08	1293.08	1293.08	3.17	2.76	177.32	-6.66	12.81	98.80	93.24	17.78	
1400.00	1390.34	1390.34	1390.34	3.59	2.98	177.83	-6.66	12.81	122.06	116.03	20.24	
1500.00	1487.59	1487.59	1487.59	4.03	3.20	178.18	-6.66	12.81	145.33	138.83	22.34	
1600.00	1584.84	1584.84	1584.84	4.48	3.42	178.43	-6.66	12.81	168.61	161.62	24.13	
1700.00	1682.09	1682.09	1682.09	4.93	3.64	178.62	-6.66	12.81	191.89	184.42	25.69	
1800.00	1779.34	1779.34	1779.34	5.40	3.86	178.77	-6.66	12.81	215.16	207.21	27.05	
1900.00	1876.59	1876.59	1876.59	5.87	4.07	178.89	-6.66	12.81	238.44	230.00	28.25	
2000.00	1973.84	1973.84	1973.84	6.34	4.29	178.99	-6.66	12.81	261.72	252.80	29.32	
2100.00	2071.10	2071.08	2071.07	6.82	4.51	179.25	-7.29	12.19	285.01	275.59	30.27	
2200.00	2168.35	2168.13	2168.04	7.29	4.73	180.09	-10.17	9.34	308.33	298.42	31.11	
2300.00	2265.60	2264.84	2264.47	7.78	4.96	181.37	-15.33	4.23	331.82	321.41	31.87	
2400.00	2362.85	2361.69	2360.95	8.26	5.19	182.68	-21.34	-1.70	355.52	344.59	32.54	
2500.00	2460.10	2458.54	2457.43	8.74	5.42	183.83	-27.34	-7.64	379.37	367.93	33.15	
2600.00	2557.35	2555.39	2553.91	9.23	5.66	184.84	-33.35	-13.58	403.35	391.38	33.69	
2700.00	2654.60	2652.24	2650.39	9.71	5.90	185.74	-39.35	-19.52	427.43	414.93	34.19	
2800.00	2751.86	2749.09	2746.87	10.20	6.15	186.54	-45.36	-25.45	451.61	438.57	34.63	
2900.00	2849.11	2845.94	2843.35	10.69	6.39	187.26	-51.36	-31.39	475.86	462.28	35.04	
3000.00	2946.36	2942.79	2939.83	11.17	6.64	187.92	-57.36	-37.33	500.17	486.05	35.41	
3100.00	3043.61	3039.64	3036.31	11.66	6.89	188.51	-63.37	-43.27	524.54	509.87	35.75	
3200.00	3140.86	3136.49	3132.79	12.15	7.14	189.05	-69.37	-49.20	548.96	533.73	36.06	
3300.00	3238.11	3233.34	3229.27	12.64	7.40	189.54	-75.38	-55.14	573.42	557.64	36.35	
3400.00	3335.36	3330.68	3326.26	13.13	7.64	189.99	-81.37	-61.07	597.90	581.58	36.63	
3500.00	3432.62	3429.61	3424.91	13.62	7.85	190.29	-86.58	-66.22	622.19	605.36	36.97	
3600.00	3529.87	3528.77	3523.91	14.11	8.03	190.42	-90.59	-70.18	646.16	628.86	37.35	

Weatherford International, Ltd.

Anticollision Report

Company:	BERRY PETROLEUM COMPANY	Date:	6/25/2007	Time:	12:56:40	Page:	4
Field:	GARFIELD COUNTY (NAD 83)	Co-ordinate(NE) Reference:	Well: BERRY 11-16D, True North				
Reference Site:	BERRY 11-15D PAD	Vertical (TVD) Reference:	SITE 8179.0				
Reference Well:	BERRY 11-16D						
Reference Wellpath:	1	Db: Sybase					

Site: BERRY 11-15D PAD
Well: BERRY 11-5D
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3700.00	3627.12	3628.12	3623.17	14.60	8.20	190.39	-93.38	-72.94	669.82	652.06	37.71	
3800.00	3724.37	3727.58	3722.61	15.09	8.38	190.22	-94.95	-74.49	693.16	674.94	38.05	
3900.00	3821.62	3826.59	3821.62	15.59	8.55	189.93	-95.32	-74.86	716.20	697.73	38.79	
4000.00	3918.87	3923.84	3918.87	16.08	8.74	189.62	-95.32	-74.86	739.16	720.23	39.03	
4100.00	4016.12	4021.09	4016.12	16.57	8.95	189.33	-95.32	-74.86	762.15	742.72	39.24	
4200.00	4113.38	4118.35	4113.38	17.06	9.16	189.05	-95.32	-74.86	785.15	765.23	39.43	
4300.00	4210.63	4215.60	4210.63	17.55	9.38	188.79	-95.32	-74.86	808.17	787.76	39.61	
4400.00	4307.88	4312.85	4307.88	18.05	9.59	188.55	-95.32	-74.86	831.20	810.31	39.79	
4500.00	4405.13	4410.10	4405.13	18.54	9.80	188.31	-95.32	-74.86	854.24	832.86	39.95	
4600.00	4502.38	4507.35	4502.38	19.03	10.01	188.09	-95.32	-74.86	877.30	855.43	40.11	
4700.00	4599.63	4604.60	4599.63	19.52	10.22	187.89	-95.32	-74.86	900.37	878.01	40.27	
4800.00	4696.88	4701.85	4696.88	20.02	10.44	187.69	-95.32	-74.86	923.45	900.60	40.41	
4900.00	4794.14	4799.11	4794.14	20.51	10.65	187.50	-95.32	-74.86	946.55	923.20	40.55	
5000.00	4891.39	4896.36	4891.39	21.00	10.86	187.32	-95.32	-74.86	969.65	945.81	40.69	
5100.00	4988.64	4993.61	4988.64	21.49	11.08	187.15	-95.32	-74.86	992.75	968.43	40.81	
5200.00	5085.89	5090.86	5085.89	21.99	11.29	186.98	-95.32	-74.86	1015.87	991.06	40.94	
5300.00	5183.14	5188.11	5183.14	22.48	11.50	186.83	-95.32	-74.86	1039.00	1013.69	41.06	
5400.00	5280.48	5285.45	5280.48	22.93	11.72	186.66	-95.32	-74.86	1061.77	1035.98	41.18	
5500.00	5378.18	5383.15	5378.18	23.30	11.93	186.51	-95.32	-74.86	1082.96	1056.74	41.31	
5600.00	5476.23	5481.20	5476.23	23.64	12.15	186.37	-95.32	-74.86	1102.45	1075.81	41.37	
5700.00	5574.62	5579.59	5574.62	23.96	12.37	186.25	-95.32	-74.86	1120.25	1093.18	41.39	
5800.00	5673.30	5678.27	5673.30	24.27	12.59	186.14	-95.32	-74.86	1136.33	1108.85	41.35	
5900.00	5772.25	5777.22	5772.25	24.55	12.80	186.05	-95.32	-74.86	1150.71	1122.83	41.27	
6000.00	5871.43	5876.40	5871.43	24.80	13.02	185.97	-95.32	-74.86	1163.37	1135.09	41.14	
6100.00	5970.83	5975.79	5970.83	25.04	13.24	185.90	-95.32	-74.86	1174.30	1145.63	40.96	
6200.00	6070.39	6075.36	6070.39	25.26	13.46	185.85	-95.32	-74.86	1183.51	1154.46	40.74	
6300.00	6170.11	6175.08	6170.11	25.45	13.68	185.80	-95.32	-74.86	1190.99	1161.57	40.48	
6400.00	6269.94	6274.91	6269.94	25.62	13.90	185.77	-95.32	-74.86	1196.74	1166.96	40.18	
6500.00	6369.86	6374.83	6369.86	25.77	14.13	185.75	-95.32	-74.86	1200.75	1170.62	39.85	
6600.00	6469.83	6474.80	6469.83	25.90	14.35	185.73	-95.32	-74.86	1203.03	1172.55	39.47	
6700.00	6569.83	6574.80	6569.83	26.01	14.57	141.30	-95.32	-74.86	1203.60	1168.68	34.47	
6800.00	6669.83	6674.80	6669.83	26.13	14.79	141.30	-95.32	-74.86	1203.60	1168.31	34.11	
6900.00	6769.83	6774.80	6769.83	26.25	15.01	141.30	-95.32	-74.86	1203.60	1167.94	33.75	
7000.00	6869.83	6874.80	6869.83	26.37	15.24	141.30	-95.32	-74.86	1203.60	1167.57	33.40	
7100.00	6969.83	6974.80	6969.83	26.49	15.46	141.30	-95.32	-74.86	1203.60	1167.20	33.06	
7200.00	7069.83	7074.80	7069.83	26.61	15.68	141.30	-95.32	-74.86	1203.60	1166.82	32.72	
7300.00	7169.83	7174.80	7169.83	26.74	15.90	141.30	-95.32	-74.86	1203.60	1166.44	32.39	
7400.00	7269.83	7274.80	7269.83	26.86	16.12	141.30	-95.32	-74.86	1203.60	1166.06	32.06	
7500.00	7369.83	7374.80	7369.83	26.99	16.35	141.30	-95.32	-74.86	1203.60	1165.69	31.74	
7600.00	7469.83	7474.80	7469.83	27.12	16.57	141.30	-95.32	-74.86	1203.60	1165.30	31.43	
7700.00	7569.83	7574.80	7569.83	27.25	16.79	141.30	-95.32	-74.86	1203.60	1164.92	31.12	
7800.00	7669.83	7674.80	7669.83	27.38	17.01	141.30	-95.32	-74.86	1203.60	1164.54	30.81	
7900.00	7769.83	7774.80	7769.83	27.51	17.24	141.30	-95.32	-74.86	1203.60	1164.16	30.51	
8000.00	7869.83	7874.80	7869.83	27.64	17.46	141.30	-95.32	-74.86	1203.60	1163.77	30.22	
8100.00	7969.83	7974.80	7969.83	27.78	17.68	141.30	-95.32	-74.86	1203.60	1163.38	29.93	
8200.00	8069.83	8074.80	8069.83	27.91	17.91	141.30	-95.32	-74.86	1203.60	1163.00	29.64	
8300.00	8169.83	8174.80	8169.83	28.05	18.13	141.30	-95.32	-74.86	1203.60	1162.61	29.36	
8400.00	8269.83	8274.80	8269.83	28.19	18.35	141.30	-95.32	-74.86	1203.60	1162.22	29.08	
8500.00	8369.83	8374.80	8369.83	28.33	18.57	141.30	-95.32	-74.86	1203.60	1161.83	28.81	
8600.00	8469.83	8474.80	8469.83	28.47	18.80	141.30	-95.32	-74.86	1203.60	1161.44	28.54	
8700.00	8569.83	8574.80	8569.83	28.61	19.02	141.30	-95.32	-74.86	1203.60	1161.04	28.28	

Weatherford International, Ltd.

Anticollision Report

Company: BERRY PETROLEUM COMPANY	Date: 6/25/2007	Time: 12:56:40	Page: 5
Field: GARFIELD COUNTY (NAD 83)			
Reference Site: BERRY 11-15D PAD	Co-ordinate(NE) Reference: Well: BERRY 11-16D, True North		
Reference Well: BERRY 11-16D	Vertical (TVD) Reference: SITE 8179.0		
Reference Wellpath: 1	Db: Sybase		

Site: BERRY 11-15D PAD
Well: BERRY 11-5D
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8800.00	8669.83	8674.80	8669.83	28.75	19.24	141.30	-95.32	-74.86	1203.60	1160.65	28.02	
8900.00	8769.83	8774.80	8769.83	28.89	19.47	141.30	-95.32	-74.86	1203.60	1160.26	27.77	
9000.00	8869.83	8874.80	8869.83	29.04	19.69	141.30	-95.32	-74.86	1203.60	1159.86	27.52	
9100.00	8969.83	8974.80	8969.83	29.18	19.91	141.30	-95.32	-74.86	1203.60	1159.46	27.27	
9200.00	9069.83	9074.80	9069.83	29.33	20.14	141.30	-95.32	-74.86	1203.60	1159.07	27.03	
9300.00	9169.83	9174.80	9169.83	29.48	20.36	141.30	-95.32	-74.86	1203.60	1158.67	26.79	
9400.00	9269.83	9165.97	9161.00	29.62	20.34	141.30	-95.32	-74.86	1208.51	1163.42	26.80	