



# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_DRY CREEK 6-35 PAD**

**P\_DRY CREEK 4-35**

**P\_DRY CREEK 4-35**

**Plan: PLAN #1 10-28-09 RHS**

## **Standard Planning Report**

**28 October, 2009**



**P. DRY CREEK 4-35**  
**COLORADO NORTHERN ZONE - 83**  
**SECTION 35 T1N R67W**  
**2147 FNL 2125 FWL**  
**LAT: 40° 0' 32.292 N**  
**LONG: 104° 51' 34.524 W**



Azimuths to True North  
Magnetic North: 9.06°  
Magnetic Field  
Strength: 53104.3nT  
Dip Angle: 66.78°  
Date: 10/28/2009  
Model: IGRF200510

**WELL DETAILS: P\_DRY CREEK 4-35**

+N/-S	+E/-W	Northing	Ground Level: Easting	5006.00 Latitude	Longitude	Slot
0.00	0.00	1246762.13	3179388.00	40° 0' 32.292 N	104° 51' 34.524 W	

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
3149.00	3362.85	PARKMAN TOP
4751.00	5125.75	SUSSEX TOP
7333.00	7752.36	NIO A TOP
7733.00	8152.36	CODELL TOP

**SECTION DETAILS**

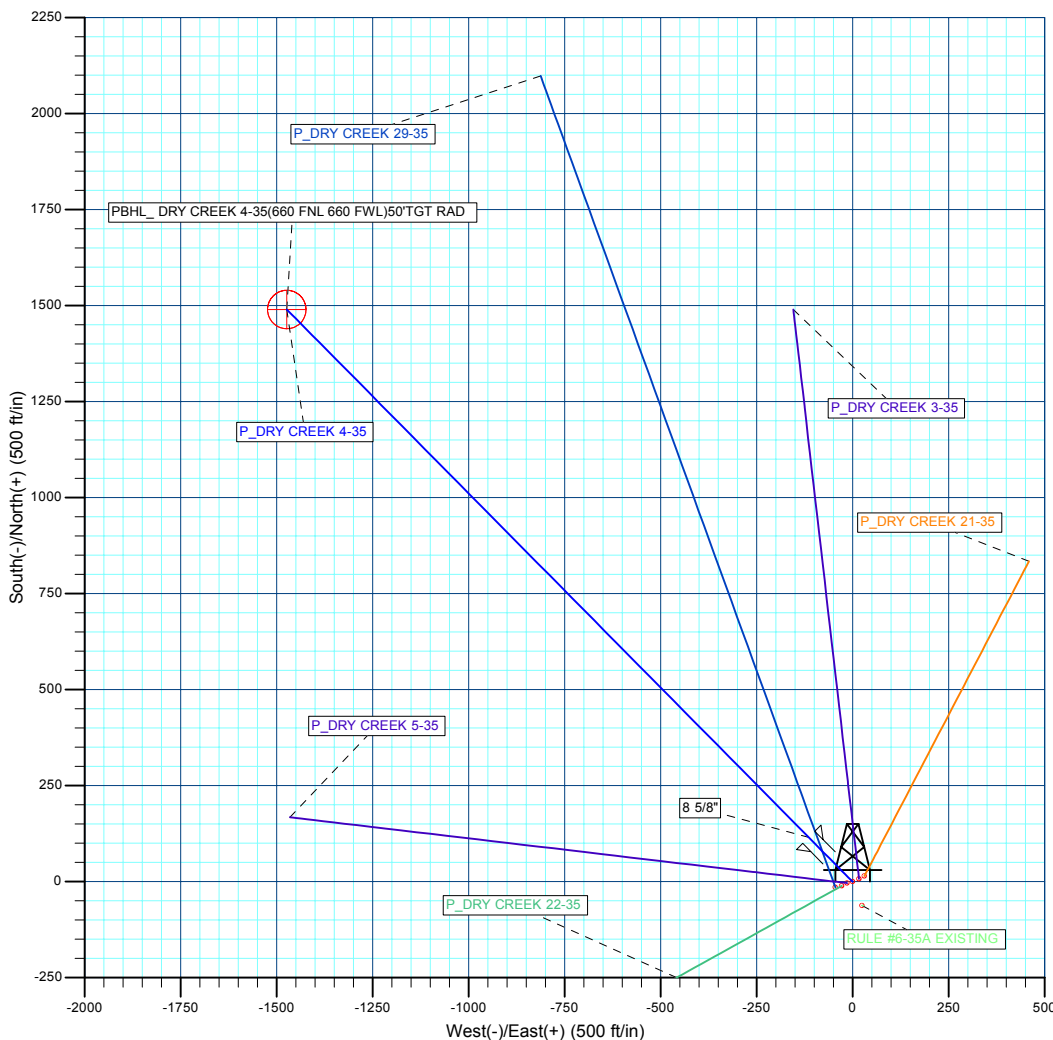
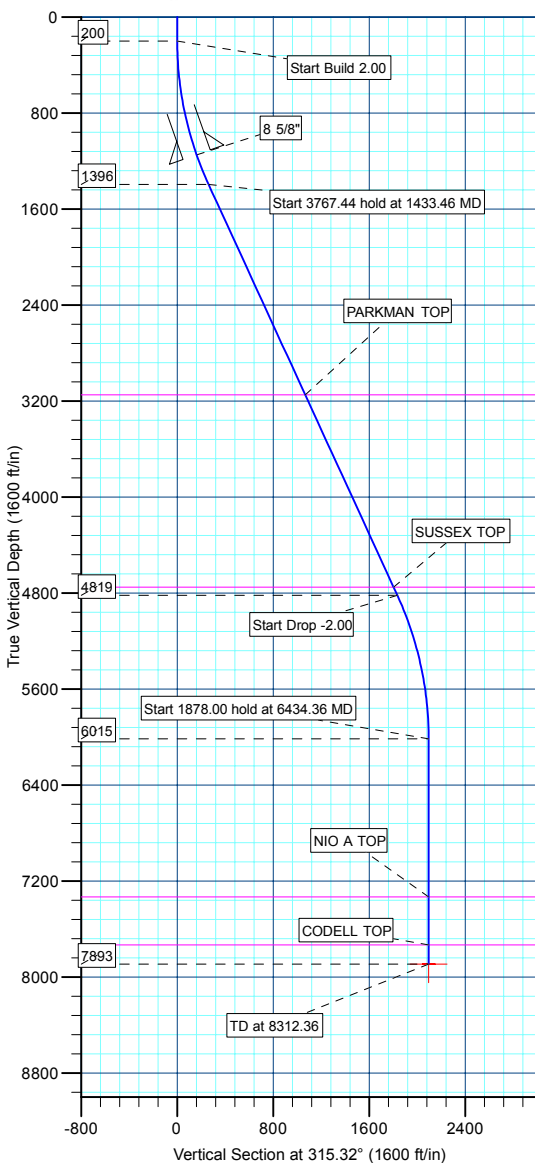
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
1433.46	24.67	315.32	1395.71	185.92	-183.84	2.00	315.32	261.46	
5200.90	24.67	315.32	4819.29	1304.02	-1289.49	0.00	0.00	1833.91	
6434.36	0.00	0.00	6015.00	1489.94	-1473.33	2.00	180.00	2095.38	
8312.36	0.00	0.00	7893.00	1489.94	-1473.33	0.00	0.00	2095.38	PBHL_ DRY CREEK 4-35(660 FNL 660 FWL)50°TGT RAD

**CASING DETAILS**

TVD	MD	Name	Size
1150.00	1168.33	8 5/8"	8.62



KB ELEV: WELL @ 5021.00ft (Original Well Elev)  
GRD ELEV: 5006.00



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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7893.00	1489.94	-1473.33	1248241.39	3177903.96	40° 0' 47.016 N	104° 51' 53.460 W	Circle (Radius: 50.00)

Plan: PLAN #1 10-28-09 RHS (P\_DRY CREEK 4-35/P\_DRY CREEK 4-35)

Created By: Robert H. Scott

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 4-35		
<b>Design:</b>	PLAN #1 10-28-09 RHS		

<b>Project</b>	COLORADO NOTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

<b>Site</b>	WELD_DRY CREEK 6-35 PAD, SECTION 35 T1N R67W			
<b>Site Position:</b>		<b>Northing:</b>	1,246,769.55 ft	<b>Latitude:</b> 40° 0' 32.364 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,179,404.76 ft	<b>Longitude:</b> 104° 51' 34.308 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b> 0.41 °

<b>Well</b>	P_DRY CREEK 4-35			
<b>Well Position</b>	<b>+N/-S</b>	-7.29 ft	<b>Northing:</b>	1,246,762.13 ft
	<b>+E/-W</b>	-16.81 ft	<b>Easting:</b>	3,179,388.00 ft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b> 5,006.00 ft

<b>Wellbore</b>	P_DRY CREEK 4-35			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/28/2009	9.06	66.78	53,104

<b>Design</b>	PLAN #1 10-28-09 RHS			
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<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	315.32

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,433.46	24.67	315.32	1,395.71	185.92	-183.84	2.00	2.00	0.00	315.32	
5,200.90	24.67	315.32	4,819.29	1,304.02	-1,289.49	0.00	0.00	0.00	0.00	
6,434.36	0.00	0.00	6,015.00	1,489.94	-1,473.33	2.00	-2.00	0.00	180.00	
8,312.36	0.00	0.00	7,893.00	1,489.94	-1,473.33	0.00	0.00	0.00	0.00	PBHL_ DRY CREE

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 4-35		
<b>Design:</b>	PLAN #1 10-28-09 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
<b>Start Build 2.00</b>									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	2.00	315.32	299.98	1.24	-1.23	1.75	2.00	2.00	0.00
400.00	4.00	315.32	399.84	4.96	-4.91	6.98	2.00	2.00	0.00
500.00	6.00	315.32	499.45	11.16	-11.03	15.69	2.00	2.00	0.00
600.00	8.00	315.32	598.70	19.82	-19.60	27.88	2.00	2.00	0.00
700.00	10.00	315.32	697.47	30.95	-30.60	43.52	2.00	2.00	0.00
800.00	12.00	315.32	795.62	44.51	-44.02	62.60	2.00	2.00	0.00
900.00	14.00	315.32	893.06	60.51	-59.83	85.10	2.00	2.00	0.00
1,000.00	16.00	315.32	989.64	78.91	-78.03	110.98	2.00	2.00	0.00
1,100.00	18.00	315.32	1,085.27	99.70	-98.59	140.21	2.00	2.00	0.00
<b>8 5/8"</b>									
1,168.33	19.37	315.32	1,150.00	115.26	-113.98	162.10	2.00	2.00	0.00
1,200.00	20.00	315.32	1,179.82	122.85	-121.48	172.77	2.00	2.00	0.00
1,300.00	22.00	315.32	1,273.17	148.33	-146.68	208.60	2.00	2.00	0.00
1,400.00	24.00	315.32	1,365.21	176.11	-174.15	247.67	2.00	2.00	0.00
<b>Start 3767.44 hold at 1433.46 MD</b>									
1,433.46	24.67	315.32	1,395.71	185.92	-183.84	261.46	2.00	2.00	0.00
1,500.00	24.67	315.32	1,456.17	205.66	-203.37	289.23	0.00	0.00	0.00
1,600.00	24.67	315.32	1,547.04	235.34	-232.72	330.97	0.00	0.00	0.00
1,700.00	24.67	315.32	1,637.92	265.02	-262.06	372.71	0.00	0.00	0.00
1,800.00	24.67	315.32	1,728.79	294.70	-291.41	414.45	0.00	0.00	0.00
1,900.00	24.67	315.32	1,819.66	324.38	-320.76	456.19	0.00	0.00	0.00
2,000.00	24.67	315.32	1,910.53	354.05	-350.11	497.92	0.00	0.00	0.00
2,100.00	24.67	315.32	2,001.41	383.73	-379.45	539.66	0.00	0.00	0.00
2,200.00	24.67	315.32	2,092.28	413.41	-408.80	581.40	0.00	0.00	0.00
2,300.00	24.67	315.32	2,183.15	443.09	-438.15	623.14	0.00	0.00	0.00
2,400.00	24.67	315.32	2,274.03	472.77	-467.50	664.88	0.00	0.00	0.00
2,500.00	24.67	315.32	2,364.90	502.44	-496.84	706.61	0.00	0.00	0.00
2,600.00	24.67	315.32	2,455.77	532.12	-526.19	748.35	0.00	0.00	0.00
2,700.00	24.67	315.32	2,546.65	561.80	-555.54	790.09	0.00	0.00	0.00
2,800.00	24.67	315.32	2,637.52	591.48	-584.89	831.83	0.00	0.00	0.00
2,900.00	24.67	315.32	2,728.39	621.16	-614.23	873.57	0.00	0.00	0.00
3,000.00	24.67	315.32	2,819.27	650.83	-643.58	915.30	0.00	0.00	0.00
3,100.00	24.67	315.32	2,910.14	680.51	-672.93	957.04	0.00	0.00	0.00
3,200.00	24.67	315.32	3,001.01	710.19	-702.27	998.78	0.00	0.00	0.00
3,300.00	24.67	315.32	3,091.89	739.87	-731.62	1,040.52	0.00	0.00	0.00
<b>PARKMAN TOP</b>									
3,362.85	24.67	315.32	3,149.00	758.52	-750.07	1,066.75	0.00	0.00	0.00
3,400.00	24.67	315.32	3,182.76	769.55	-760.97	1,082.26	0.00	0.00	0.00
3,500.00	24.67	315.32	3,273.63	799.23	-790.32	1,123.99	0.00	0.00	0.00
3,600.00	24.67	315.32	3,364.51	828.90	-819.66	1,165.73	0.00	0.00	0.00
3,700.00	24.67	315.32	3,455.38	858.58	-849.01	1,207.47	0.00	0.00	0.00
3,800.00	24.67	315.32	3,546.25	888.26	-878.36	1,249.21	0.00	0.00	0.00
3,900.00	24.67	315.32	3,637.13	917.94	-907.71	1,290.95	0.00	0.00	0.00
4,000.00	24.67	315.32	3,728.00	947.62	-937.05	1,332.68	0.00	0.00	0.00
4,100.00	24.67	315.32	3,818.87	977.29	-966.40	1,374.42	0.00	0.00	0.00
4,200.00	24.67	315.32	3,909.75	1,006.97	-995.75	1,416.16	0.00	0.00	0.00
4,300.00	24.67	315.32	4,000.62	1,036.65	-1,025.10	1,457.90	0.00	0.00	0.00
4,400.00	24.67	315.32	4,091.49	1,066.33	-1,054.44	1,499.64	0.00	0.00	0.00
4,500.00	24.67	315.32	4,182.37	1,096.01	-1,083.79	1,541.37	0.00	0.00	0.00
4,600.00	24.67	315.32	4,273.24	1,125.69	-1,113.14	1,583.11	0.00	0.00	0.00
4,700.00	24.67	315.32	4,364.11	1,155.36	-1,142.48	1,624.85	0.00	0.00	0.00

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 4-35		
<b>Design:</b>	PLAN #1 10-28-09 RHS		

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)
4,800.00	24.67	315.32	4,454.98	1,185.04	-1,171.83	1,666.59	0.00	0.00	0.00
4,900.00	24.67	315.32	4,545.86	1,214.72	-1,201.18	1,708.33	0.00	0.00	0.00
5,000.00	24.67	315.32	4,636.73	1,244.40	-1,230.53	1,750.06	0.00	0.00	0.00
5,100.00	24.67	315.32	4,727.60	1,274.08	-1,259.87	1,791.80	0.00	0.00	0.00
<b>SUSSEX TOP</b>									
5,125.75	24.67	315.32	4,751.00	1,281.72	-1,267.43	1,802.55	0.00	0.00	0.00
5,200.00	24.67	315.32	4,818.48	1,303.75	-1,289.22	1,833.54	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
5,200.90	24.67	315.32	4,819.29	1,304.02	-1,289.49	1,833.91	0.00	0.00	0.00
5,300.00	22.69	315.32	4,910.05	1,332.32	-1,317.47	1,873.71	2.00	-2.00	0.00
5,400.00	20.69	315.32	5,002.96	1,358.59	-1,343.45	1,910.66	2.00	-2.00	0.00
5,500.00	18.69	315.32	5,097.11	1,382.55	-1,367.14	1,944.35	2.00	-2.00	0.00
5,600.00	16.69	315.32	5,192.38	1,404.15	-1,388.50	1,974.73	2.00	-2.00	0.00
5,700.00	14.69	315.32	5,288.65	1,423.38	-1,407.51	2,001.77	2.00	-2.00	0.00
5,800.00	12.69	315.32	5,385.81	1,440.20	-1,424.15	2,025.43	2.00	-2.00	0.00
5,900.00	10.69	315.32	5,483.73	1,454.60	-1,438.39	2,045.69	2.00	-2.00	0.00
6,000.00	8.69	315.32	5,582.30	1,466.57	-1,450.22	2,062.51	2.00	-2.00	0.00
6,100.00	6.69	315.32	5,681.40	1,476.08	-1,459.62	2,075.89	2.00	-2.00	0.00
6,200.00	4.69	315.32	5,780.90	1,483.12	-1,466.59	2,085.80	2.00	-2.00	0.00
6,300.00	2.69	315.32	5,880.69	1,487.70	-1,471.11	2,092.23	2.00	-2.00	0.00
6,400.00	0.69	315.32	5,980.64	1,489.79	-1,473.18	2,095.17	2.00	-2.00	0.00
<b>Start 1878.00 hold at 6434.36 MD</b>									
6,434.36	0.00	0.00	6,015.00	1,489.94	-1,473.33	2,095.38	2.00	-2.00	0.00
6,500.00	0.00	0.00	6,080.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
6,600.00	0.00	0.00	6,180.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
6,700.00	0.00	0.00	6,280.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
6,800.00	0.00	0.00	6,380.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
6,900.00	0.00	0.00	6,480.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,000.00	0.00	0.00	6,580.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,100.00	0.00	0.00	6,680.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,200.00	0.00	0.00	6,780.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,300.00	0.00	0.00	6,880.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,400.00	0.00	0.00	6,980.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,500.00	0.00	0.00	7,080.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,600.00	0.00	0.00	7,180.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,700.00	0.00	0.00	7,280.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
<b>NIO A TOP</b>									
7,752.36	0.00	0.00	7,333.00	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,800.00	0.00	0.00	7,380.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
7,900.00	0.00	0.00	7,480.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
8,000.00	0.00	0.00	7,580.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
8,100.00	0.00	0.00	7,680.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
<b>CODELL TOP</b>									
8,152.36	0.00	0.00	7,733.00	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
8,200.00	0.00	0.00	7,780.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
8,300.00	0.00	0.00	7,880.64	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00
<b>TD at 8312.36 - PBHL_ DRY CREEK 4-35(660 FNL 660 FWL)50'TGT RAD</b>									
8,312.36	0.00	0.00	7,893.00	1,489.94	-1,473.33	2,095.38	0.00	0.00	0.00

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 4-35		
<b>Design:</b>	PLAN #1 10-28-09 RHS		

Design Targets									
Target Name									
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL_DRY CREEK 4-35	0.00	0.00	7,893.00	1,489.94	-1,473.33	1,248,241.39	3,177,903.96	40° 0' 47.016 N	104° 51' 53.460 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,168.33	1,150.00	8 5/8"	8.62	11.00	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,362.85	3,149.00	PARKMAN TOP				
5,125.75	4,751.00	SUSSEX TOP				
7,752.36	7,333.00	NIO A TOP				
8,152.36	7,733.00	CODELL TOP				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 2.00
1,433.46	1,395.71	185.92	-183.84	Start 3767.44 hold at 1433.46 MD
5,200.90	4,819.29	1,304.02	-1,289.49	Start Drop -2.00
6,434.36	6,015.00	1,489.94	-1,473.33	Start 1878.00 hold at 6434.36 MD
8,312.36	7,893.00	1,489.94	-1,473.33	TD at 8312.36



# **US ROCKIES REGION PLANNING**

**COLORADO NOTHERN ZONE - 83  
WELD\_DRY CREEK 6-35 PAD  
P\_DRY CREEK 4-35**

**P\_DRY CREEK 4-35  
PLAN #1 10-28-09 RHS**

## **Anticollision Report**

**28 October, 2009**



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #1 10-28-09 RHS		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	0.00 to 20,000.00ft	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.00ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 10/28/2009			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	8,312.36	PLAN #1 10-28-09 RHS (P_DRY CREEK	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						
WELD_DRY CREEK 6-35 PAD						
P_DRY CREEK 21-35 - P_DRY CREEK 21-35 - PLAN #	200.00	200.00	34.08	33.44	53.208	CC, ES
P_DRY CREEK 21-35 - P_DRY CREEK 21-35 - PLAN #	600.00	598.70	50.69	48.23	20.619	SF
P_DRY CREEK 22-35 - P_DRY CREEK 22-35 - PLAN #	461.48	461.12	27.60	25.76	15.001	CC, ES
P_DRY CREEK 22-35 - P_DRY CREEK 22-35 - PLAN #	600.00	598.70	31.88	29.36	12.659	SF
P_DRY CREEK 29-35 - P_DRY CREEK 29-35 - PLAN #	986.72	983.63	11.23	6.81	2.540	CC
P_DRY CREEK 29-35 - P_DRY CREEK 29-35 - PLAN #	1,000.00	996.77	11.34	6.79	2.496	ES, SF
P_DRY CREEK 3-35 - P_DRY CREEK 3-35 - PLAN #1 1	200.00	200.00	18.32	12.30	3.043	CC
P_DRY CREEK 3-35 - P_DRY CREEK 3-35 - PLAN #1 1	400.00	399.53	22.87	8.43	1.584	ES
P_DRY CREEK 3-35 - P_DRY CREEK 3-35 - PLAN #1 1	500.00	499.10	28.55	9.85	1.527	SF
P_DRY CREEK 5-35 - P_DRY CREEK 5-35 - PLAN #1 1	200.00	200.00	14.47	13.83	22.592	CC, ES
P_DRY CREEK 5-35 - P_DRY CREEK 5-35 - PLAN #1 1	500.00	498.24	22.57	20.56	11.253	SF
RULE #6-35A EXISTING - RULE #6-35A EXISTING - RL	200.00	189.00	67.10	61.22	11.411	CC
RULE #6-35A EXISTING - RULE #6-35A EXISTING - RL	300.00	288.98	68.71	58.62	6.806	ES
RULE #6-35A EXISTING - RULE #6-35A EXISTING - RL	700.00	686.47	108.53	81.95	4.084	SF

Offset Design		WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 21-35 - P_DRY CREEK 21-35 - PLAN #1 10-28-09 R										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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.00	0.00	0.00	0.00	0.00	0.00	64.69	14.57	30.81	34.08						
100.00	100.00	100.00	100.00	0.10	0.10	64.69	14.57	30.81	34.08	33.89	0.19	178.405			
200.00	200.00	200.00	200.00	0.32	0.32	64.69	14.57	30.81	34.08	33.44	0.64	53.208	CC, ES		
300.00	299.98	299.98	299.98	0.54	0.55	112.08	14.57	30.81	34.70	33.62	1.09	31.925			
400.00	399.84	399.84	399.84	0.77	0.77	119.56	14.57	30.81	36.99	35.45	1.54	24.058			
500.00	499.45	499.45	499.45	1.03	0.99	129.86	14.57	30.81	41.99	39.99	2.00	21.028			
600.00	598.70	598.70	598.70	1.31	1.22	140.35	14.57	30.81	50.69	48.23	2.46	20.619	SF		
700.00	697.47	697.47	697.47	1.64	1.44	149.23	14.57	30.81	63.56	60.64	2.92	21.794			
800.00	795.62	795.62	795.62	2.02	1.66	156.02	14.57	30.81	80.60	77.23	3.37	23.913			
900.00	893.06	893.06	893.06	2.46	1.88	161.03	14.57	30.81	101.62	97.80	3.82	26.585			
1,000.00	989.64	989.64	989.64	2.95	2.10	164.70	14.57	30.81	126.44	122.16	4.27	29.580			
1,100.00	1,085.27	1,085.27	1,085.27	3.51	2.31	167.42	14.57	30.81	154.89	150.16	4.73	32.763			
1,200.00	1,179.82	1,179.82	1,179.82	4.14	2.52	169.47	14.57	30.81	186.86	181.68	5.18	36.055			
1,300.00	1,273.17	1,273.47	1,273.47	4.83	2.73	171.02	14.66	30.86	222.23	216.59	5.64	39.402			

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



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 21-35 - P_DRY CREEK 21-35 - PLAN #1 10-28-09 R												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
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
1,400.00	1,365.21	1,367.12	1,367.09	5.58	2.94	171.72	16.69	31.92	260.54	254.44	6.11	42.667	
1,433.46	1,395.71	1,398.29	1,398.22	5.85	3.01	171.78	17.97	32.59	273.96	267.70	6.27	43.727	
1,500.00	1,456.17	1,460.26	1,460.07	6.40	3.15	171.75	21.41	34.39	300.82	294.19	6.63	45.375	
1,600.00	1,547.04	1,553.72	1,553.16	7.22	3.36	171.27	28.83	38.27	340.76	333.56	7.20	47.349	
1,700.00	1,637.92	1,647.39	1,646.11	8.05	3.59	170.39	38.96	43.56	380.24	372.44	7.79	48.786	
1,800.00	1,728.79	1,741.05	1,738.65	8.89	3.83	169.23	51.77	50.27	419.35	410.92	8.43	49.743	
1,900.00	1,819.66	1,834.51	1,830.47	9.73	4.10	167.87	67.23	58.35	458.22	449.10	9.11	50.284	
2,000.00	1,910.53	1,926.08	1,920.13	10.58	4.39	166.55	83.69	66.95	497.12	487.28	9.84	50.545	
2,100.00	2,001.41	2,017.64	2,009.79	11.42	4.69	165.43	100.14	75.56	536.22	525.63	10.58	50.679	
2,200.00	2,092.28	2,109.20	2,099.45	12.27	5.01	164.45	116.60	84.16	575.46	564.12	11.35	50.718	
2,300.00	2,183.15	2,200.76	2,189.11	13.12	5.34	163.60	133.05	92.76	614.84	602.71	12.13	50.694	
2,400.00	2,274.03	2,292.33	2,278.77	13.97	5.68	162.85	149.51	101.37	654.31	641.39	12.92	50.627	
2,500.00	2,364.90	2,383.89	2,368.42	14.82	6.02	162.19	165.96	109.97	693.87	680.14	13.73	50.533	
2,600.00	2,455.77	2,475.45	2,458.08	15.67	6.37	161.60	182.42	118.58	733.50	718.95	14.55	50.423	
2,700.00	2,546.65	2,567.01	2,547.74	16.52	6.73	161.06	198.87	127.18	773.19	757.82	15.37	50.304	
2,800.00	2,637.52	2,658.57	2,637.40	17.37	7.09	160.58	215.33	135.78	812.93	796.73	16.20	50.180	
2,900.00	2,728.39	2,750.13	2,727.06	18.22	7.46	160.15	231.78	144.39	852.71	835.68	17.04	50.054	
3,000.00	2,819.27	2,841.69	2,816.71	19.08	7.83	159.75	248.24	152.99	892.53	874.66	17.88	49.929	
3,100.00	2,910.14	2,933.25	2,906.37	19.93	8.20	159.39	264.69	161.59	932.39	913.67	18.72	49.806	
3,200.00	3,001.01	3,024.81	2,996.03	20.78	8.57	159.05	281.15	170.20	972.27	952.70	19.57	49.687	
3,300.00	3,091.89	3,116.37	3,085.69	21.64	8.95	158.75	297.60	178.80	1,012.18	991.76	20.42	49.571	
3,400.00	3,182.76	3,207.93	3,175.35	22.49	9.33	158.46	314.06	187.41	1,052.11	1,030.84	21.27	49.459	
3,500.00	3,273.63	3,299.49	3,265.00	23.35	9.71	158.20	330.51	196.01	1,092.07	1,069.94	22.13	49.351	
3,600.00	3,364.51	3,391.05	3,354.66	24.20	10.09	157.96	346.97	204.61	1,132.04	1,109.05	22.99	49.247	
3,700.00	3,455.38	3,482.62	3,444.32	25.05	10.47	157.73	363.42	213.22	1,172.02	1,148.18	23.85	49.148	
3,800.00	3,546.25	3,574.18	3,533.98	25.91	10.85	157.51	379.88	221.82	1,212.02	1,187.32	24.71	49.053	
3,900.00	3,637.13	3,665.74	3,623.64	26.76	11.24	157.31	396.33	230.43	1,252.04	1,226.47	25.57	48.962	
4,000.00	3,728.00	3,757.30	3,713.30	27.62	11.63	157.13	412.79	239.03	1,292.06	1,265.63	26.44	48.875	
4,100.00	3,818.87	3,848.86	3,802.95	28.47	12.01	156.95	429.24	247.63	1,332.10	1,304.80	27.30	48.792	
4,200.00	3,909.75	3,940.42	3,892.61	29.33	12.40	156.79	445.70	256.24	1,372.15	1,343.98	28.17	48.712	
4,300.00	4,000.62	4,031.98	3,982.27	30.19	12.79	156.63	462.15	264.84	1,412.21	1,383.17	29.04	48.636	
4,400.00	4,091.49	4,123.54	4,071.93	31.04	13.18	156.48	478.61	273.45	1,452.27	1,422.37	29.90	48.563	
4,500.00	4,182.37	4,215.10	4,161.59	31.90	13.57	156.34	495.06	282.05	1,492.34	1,461.57	30.77	48.493	
4,600.00	4,273.24	4,306.66	4,251.24	32.75	13.96	156.21	511.52	290.65	1,532.42	1,500.78	31.64	48.426	
4,700.00	4,364.11	4,398.22	4,340.90	33.61	14.35	156.08	527.97	299.26	1,572.51	1,539.99	32.52	48.362	
4,800.00	4,454.98	4,489.78	4,430.56	34.46	14.74	155.96	544.43	307.86	1,612.60	1,579.21	33.39	48.300	
4,900.00	4,545.86	4,581.34	4,520.22	35.32	15.13	155.85	560.88	316.47	1,652.70	1,618.44	34.26	48.241	
5,000.00	4,636.73	4,672.91	4,609.88	36.18	15.52	155.74	577.34	325.07	1,692.80	1,657.67	35.13	48.184	
5,100.00	4,727.60	4,764.47	4,699.53	37.03	15.92	155.64	593.79	333.67	1,732.91	1,696.90	36.00	48.130	
5,200.90	4,819.29	4,856.85	4,790.00	37.90	16.31	155.54	610.39	342.35	1,773.38	1,736.49	36.89	48.077	
5,300.00	4,910.05	4,948.17	4,879.43	38.63	16.70	155.76	626.81	350.94	1,811.70	1,773.89	37.81	47.912	
5,400.00	5,002.96	5,041.44	4,970.75	39.24	17.10	155.92	643.57	359.70	1,847.44	1,808.73	38.70	47.735	
5,500.00	5,097.11	5,135.71	5,063.07	39.80	17.51	156.00	660.51	368.56	1,880.20	1,840.63	39.57	47.516	
5,600.00	5,192.38	5,230.88	5,156.25	40.30	17.92	156.01	677.61	377.50	1,909.95	1,869.54	40.41	47.259	
5,700.00	5,288.65	5,326.81	5,250.20	40.75	18.33	155.96	694.85	386.52	1,936.68	1,895.45	41.23	46.970	
5,800.00	5,385.81	5,423.41	5,344.79	41.15	18.75	155.85	712.21	395.59	1,960.38	1,918.36	42.02	46.652	
5,900.00	5,483.73	5,520.55	5,439.91	41.50	19.17	155.68	729.67	404.72	1,981.03	1,938.25	42.78	46.307	
6,000.00	5,582.30	5,618.11	5,535.44	41.80	19.59	155.45	747.20	413.89	1,998.64	1,955.14	43.51	45.938	
6,100.00	5,681.40	5,715.97	5,631.27	42.05	20.01	155.16	764.79	423.09	2,013.22	1,969.01	44.20	45.546	
6,200.00	5,780.90	5,814.56	5,727.81	42.24	20.43	154.80	782.51	432.35	2,024.76	1,979.90	44.86	45.134	
6,300.00	5,880.69	5,923.40	5,834.82	42.39	20.81	154.40	800.07	441.53	2,033.01	1,987.57	45.45	44.735	
6,400.00	5,980.64	6,033.48	5,943.74	42.49	21.12	154.04	814.16	448.90	2,037.70	1,991.82	45.88	44.411	

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

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 21-35 - P_DRY CREEK 21-35 - PLAN #1 10-28-09 R												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,434.36	6,015.00	6,071.54	5,981.53	42.51	21.21	109.24	818.17	450.99	2,038.48	1,992.47	46.01	44.307	
6,500.00	6,080.64	6,144.54	6,054.17	42.55	21.38	109.04	824.61	454.36	2,039.45	1,993.14	46.31	44.036	
6,600.00	6,180.64	6,256.34	6,165.71	42.62	21.59	108.83	831.28	457.85	2,040.47	1,993.76	46.71	43.686	
6,700.00	6,280.64	6,368.57	6,277.88	42.69	21.76	108.74	834.10	459.33	2,040.90	1,993.89	47.01	43.412	
6,800.00	6,380.64	6,471.32	6,380.64	42.76	21.90	108.74	834.20	459.38	2,040.92	1,993.66	47.26	43.185	
6,900.00	6,480.64	6,571.32	6,480.64	42.83	22.04	108.74	834.20	459.38	2,040.92	1,993.41	47.51	42.961	
7,000.00	6,580.64	6,671.32	6,580.64	42.90	22.18	108.74	834.20	459.38	2,040.92	1,993.16	47.76	42.737	
7,100.00	6,680.64	6,771.32	6,680.64	42.97	22.32	108.74	834.20	459.38	2,040.92	1,992.91	48.01	42.512	
7,200.00	6,780.64	6,871.32	6,780.64	43.05	22.46	108.74	834.20	459.38	2,040.92	1,992.65	48.26	42.287	
7,300.00	6,880.64	6,971.32	6,880.64	43.12	22.60	108.74	834.20	459.38	2,040.92	1,992.40	48.52	42.063	
7,400.00	6,980.64	7,071.32	6,980.64	43.20	22.75	108.74	834.20	459.38	2,040.92	1,992.14	48.78	41.838	
7,500.00	7,080.64	7,171.32	7,080.64	43.27	22.89	108.74	834.20	459.38	2,040.92	1,991.87	49.04	41.613	
7,600.00	7,180.64	7,271.32	7,180.64	43.35	23.04	108.74	834.20	459.38	2,040.92	1,991.61	49.31	41.389	
7,700.00	7,280.64	7,371.32	7,280.64	43.43	23.19	108.74	834.20	459.38	2,040.92	1,991.34	49.58	41.165	
7,800.00	7,380.64	7,471.32	7,380.64	43.51	23.34	108.74	834.20	459.38	2,040.92	1,991.07	49.85	40.941	
7,900.00	7,480.64	7,571.32	7,480.64	43.59	23.49	108.74	834.20	459.38	2,040.92	1,990.79	50.12	40.717	
8,000.00	7,580.64	7,671.32	7,580.64	43.67	23.64	108.74	834.20	459.38	2,040.92	1,990.52	50.40	40.494	
8,100.00	7,680.64	7,771.32	7,680.64	43.76	23.80	108.74	834.20	459.38	2,040.92	1,990.24	50.68	40.271	
8,200.00	7,780.64	7,871.32	7,780.64	43.84	23.95	108.74	834.20	459.38	2,040.92	1,989.96	50.96	40.049	
8,300.00	7,880.64	7,971.32	7,880.64	43.93	24.11	108.74	834.20	459.38	2,040.92	1,989.67	51.24	39.827	
8,312.36	7,893.00	7,983.69	7,893.00	43.94	24.12	108.74	834.20	459.38	2,040.92	1,989.64	51.28	39.800	
8,312.82	7,893.46	7,984.14	7,893.46	43.94	24.13	108.74	834.20	459.38	2,040.92	1,989.64	51.28	39.799	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWMD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-111.31	-10.93	-28.01	30.07				
100.00	100.00	100.00	100.00	0.10	0.10	-111.31	-10.93	-28.01	30.07	29.88	0.19	157.382	
200.00	200.00	200.00	200.00	0.32	0.32	-111.31	-10.93	-28.01	30.07	29.43	0.64	46.938	
300.00	299.98	299.98	299.98	0.54	0.55	-69.77	-10.93	-28.01	29.42	28.33	1.09	27.056	
400.00	399.84	399.84	399.84	0.77	0.77	-79.86	-10.93	-28.01	28.04	26.50	1.54	18.175	
461.48	461.12	461.12	461.12	0.93	0.91	-90.00	-10.93	-28.01	27.60	25.76	1.84	15.001 CC, ES	
500.00	499.45	499.45	499.45	1.03	0.99	-97.73	-10.93	-28.01	27.86	25.83	2.02	13.762	
600.00	598.70	598.70	598.70	1.31	1.22	-119.79	-10.93	-28.01	31.88	29.36	2.52	12.659 SF	
700.00	697.47	697.47	697.47	1.64	1.44	-138.43	-10.93	-28.01	41.96	38.97	2.99	14.037	
800.00	795.62	795.62	795.62	2.02	1.66	-150.89	-10.93	-28.01	57.71	54.27	3.44	16.788	
900.00	893.06	893.06	893.06	2.46	1.88	-158.76	-10.93	-28.01	78.20	74.32	3.88	20.160	
1,000.00	989.64	989.64	989.64	2.95	2.10	-163.83	-10.93	-28.01	102.83	98.50	4.32	23.795	
1,100.00	1,085.27	1,085.27	1,085.27	3.51	2.31	-167.25	-10.93	-28.01	131.22	126.46	4.77	27.536	
1,200.00	1,179.82	1,179.82	1,179.82	4.14	2.52	-169.65	-10.93	-28.01	163.19	157.98	5.22	31.291	
1,300.00	1,273.17	1,273.38	1,273.38	4.83	2.73	-171.37	-10.97	-28.10	198.59	192.93	5.67	35.047	
1,400.00	1,365.21	1,366.65	1,366.62	5.58	2.91	-172.10	-12.08	-30.09	237.01	230.90	6.11	38.801	
1,433.46	1,395.71	1,397.67	1,397.60	5.85	2.97	-172.14	-12.78	-31.34	250.48	244.22	6.26	40.020	
1,500.00	1,456.17	1,459.31	1,459.12	6.40	3.09	-172.08	-14.64	-34.69	277.48	270.87	6.61	41.969	
1,600.00	1,547.04	1,552.19	1,551.63	7.22	3.28	-171.52	-18.67	-41.93	317.71	310.54	7.17	44.326	
1,700.00	1,637.92	1,645.17	1,643.92	8.05	3.49	-170.56	-24.15	-51.80	357.59	349.82	7.76	46.063	
1,800.00	1,728.79	1,738.07	1,735.71	8.89	3.73	-169.33	-31.08	-64.26	397.21	388.80	8.41	47.247	
1,900.00	1,819.66	1,830.36	1,826.42	9.73	3.99	-167.92	-39.34	-79.12	436.72	427.62	9.10	47.972	
2,000.00	1,910.53	1,921.69	1,916.05	10.58	4.27	-166.66	-47.88	-94.48	476.37	466.53	9.84	48.430	
2,100.00	2,001.41	2,013.03	2,005.68	11.42	4.57	-165.59	-56.42	-109.84	516.18	505.59	10.59	48.733	
2,200.00	2,092.28	2,104.37	2,095.31	12.27	4.89	-164.68	-64.96	-125.20	556.13	544.76	11.37	48.927	
2,300.00	2,183.15	2,195.70	2,184.94	13.12	5.22	-163.88	-73.50	-140.55	596.17	584.02	12.16	49.042	
2,400.00	2,274.03	2,287.04	2,274.57	13.97	5.56	-163.19	-82.04	-155.91	636.31	623.35	12.96	49.103	
2,500.00	2,364.90	2,378.37	2,364.20	14.82	5.90	-162.57	-90.57	-171.27	676.51	662.74	13.77	49.127	
2,600.00	2,455.77	2,469.71	2,453.82	15.67	6.25	-162.03	-99.11	-186.63	716.77	702.18	14.59	49.124	
2,700.00	2,546.65	2,561.05	2,543.45	16.52	6.61	-161.54	-107.65	-201.99	757.08	741.66	15.42	49.104	
2,800.00	2,637.52	2,652.38	2,633.08	17.37	6.97	-161.11	-116.19	-217.35	797.43	781.18	16.25	49.070	
2,900.00	2,728.39	2,743.72	2,722.71	18.22	7.34	-160.71	-124.73	-232.71	837.82	820.73	17.09	49.028	
3,000.00	2,819.27	2,835.05	2,812.34	19.08	7.70	-160.35	-133.27	-248.07	878.23	860.30	17.93	48.980	
3,100.00	2,910.14	2,926.39	2,901.97	19.93	8.07	-160.02	-141.81	-263.43	918.68	899.90	18.78	48.929	
3,200.00	3,001.01	3,017.72	2,991.60	20.78	8.45	-159.72	-150.35	-278.79	959.14	939.52	19.62	48.875	
3,300.00	3,091.89	3,109.06	3,081.23	21.64	8.82	-159.45	-158.89	-294.15	999.63	979.15	20.48	48.821	
3,400.00	3,182.76	3,200.40	3,170.86	22.49	9.20	-159.19	-167.43	-309.51	1,040.13	1,018.80	21.33	48.766	
3,500.00	3,273.63	3,291.73	3,260.49	23.35	9.58	-158.96	-175.96	-324.87	1,080.65	1,058.47	22.18	48.712	
3,600.00	3,364.51	3,383.07	3,350.12	24.20	9.96	-158.74	-184.50	-340.23	1,121.19	1,098.15	23.04	48.658	
3,700.00	3,455.38	3,474.40	3,439.75	25.05	10.35	-158.54	-193.04	-355.59	1,161.73	1,137.83	23.90	48.606	
3,800.00	3,546.25	3,565.74	3,529.38	25.91	10.73	-158.35	-201.58	-370.95	1,202.29	1,177.53	24.76	48.554	
3,900.00	3,637.13	3,657.08	3,619.01	26.76	11.11	-158.17	-210.12	-386.31	1,242.86	1,217.24	25.62	48.504	
4,000.00	3,728.00	3,748.41	3,708.63	27.62	11.50	-158.00	-218.66	-401.67	1,283.44	1,256.95	26.49	48.456	
4,100.00	3,818.87	3,839.75	3,798.26	28.47	11.89	-157.85	-227.20	-417.02	1,324.03	1,296.67	27.35	48.409	
4,200.00	3,909.75	3,931.08	3,887.89	29.33	12.27	-157.70	-235.74	-432.38	1,364.62	1,336.40	28.22	48.364	
4,300.00	4,000.62	4,022.42	3,977.52	30.19	12.66	-157.56	-244.28	-447.74	1,405.22	1,376.14	29.08	48.320	
4,400.00	4,091.49	4,113.75	4,067.15	31.04	13.05	-157.43	-252.82	-463.10	1,445.83	1,415.88	29.95	48.278	
4,500.00	4,182.37	4,205.09	4,156.78	31.90	13.44	-157.31	-261.36	-478.46	1,486.44	1,455.63	30.82	48.237	
4,600.00	4,273.24	4,296.43	4,246.41	32.75	13.83	-157.19	-269.89	-493.82	1,527.06	1,495.38	31.68	48.198	
4,700.00	4,364.11	4,387.76	4,336.04	33.61	14.22	-157.08	-278.43	-509.18	1,567.68	1,535.13	32.55	48.160	
4,800.00	4,454.98	4,479.10	4,425.67	34.46	14.61	-156.98	-286.97	-524.54	1,608.31	1,574.89	33.42	48.123	
4,900.00	4,545.86	4,570.43	4,515.30	35.32	15.00	-156.88	-295.51	-539.90	1,648.95	1,614.66	34.29	48.087	

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

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 22-35 - P_DRY CREEK 22-35 - PLAN #1 10-28-09 R												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,636.73	4,661.77	4,604.93	36.18	15.39	-156.78	-304.05	-555.26	1,689.58	1,654.42	35.16	48.053	
5,100.00	4,727.60	4,753.11	4,694.56	37.03	15.79	-156.69	-312.59	-570.62	1,730.22	1,694.19	36.03	48.020	
5,200.90	4,819.29	4,845.26	4,784.99	37.90	16.18	-156.60	-321.21	-586.12	1,771.23	1,734.32	36.91	47.988	
5,300.00	4,910.05	4,936.38	4,874.41	38.63	16.57	-156.83	-329.72	-601.44	1,810.07	1,772.24	37.83	47.851	
5,400.00	5,002.96	5,029.47	4,965.76	39.24	16.97	-156.99	-338.43	-617.09	1,846.31	1,807.61	38.69	47.715	
5,500.00	5,097.11	5,123.61	5,058.14	39.80	17.38	-157.08	-347.23	-632.92	1,879.55	1,840.01	39.54	47.533	
5,600.00	5,192.38	5,218.67	5,151.42	40.30	17.79	-157.10	-356.12	-648.91	1,909.76	1,869.40	40.37	47.312	
5,700.00	5,288.65	5,314.54	5,245.50	40.75	18.20	-157.06	-365.08	-665.03	1,936.93	1,895.77	41.16	47.056	
5,800.00	5,385.81	5,411.11	5,340.26	41.15	18.62	-156.97	-374.11	-681.27	1,961.03	1,919.10	41.93	46.770	
5,900.00	5,483.73	5,508.25	5,435.59	41.50	19.04	-156.81	-383.19	-697.61	1,982.06	1,939.39	42.67	46.455	
6,000.00	5,582.30	5,605.84	5,531.36	41.80	19.46	-156.60	-392.31	-714.02	2,000.00	1,956.63	43.37	46.115	
6,100.00	5,681.40	5,703.78	5,627.47	42.05	19.88	-156.33	-401.47	-730.49	2,014.88	1,970.84	44.04	45.752	
6,200.00	5,780.90	5,801.94	5,723.79	42.24	20.31	-156.00	-410.65	-747.00	2,026.68	1,982.01	44.67	45.366	
6,300.00	5,880.69	5,906.89	5,826.91	42.39	20.71	-155.60	-420.15	-764.09	2,035.35	1,990.09	45.26	44.968	
6,400.00	5,980.64	6,018.29	5,936.99	42.49	21.02	-155.21	-428.39	-778.91	2,040.42	1,994.73	45.69	44.657	
6,434.36	6,015.00	6,056.82	5,975.22	42.51	21.11	160.23	-430.75	-783.16	2,041.31	1,995.50	45.81	44.559	
6,500.00	6,080.64	6,130.76	6,048.73	42.55	21.28	160.45	-434.59	-790.06	2,042.47	1,996.34	46.12	44.283	
6,600.00	6,180.64	6,244.06	6,161.71	42.62	21.49	160.69	-438.68	-797.42	2,043.71	1,997.18	46.53	43.918	
6,700.00	6,280.64	6,357.85	6,275.43	42.69	21.67	160.80	-440.60	-800.87	2,044.31	1,997.45	46.86	43.625	
6,800.00	6,380.64	6,463.06	6,380.64	42.76	21.81	160.80	-440.75	-801.15	2,044.35	1,997.24	47.12	43.389	
6,900.00	6,480.64	6,563.06	6,480.64	42.83	21.93	160.80	-440.75	-801.15	2,044.35	1,996.99	47.36	43.166	
7,000.00	6,580.64	6,663.06	6,580.64	42.90	22.06	160.80	-440.75	-801.15	2,044.35	1,996.75	47.61	42.942	
7,100.00	6,680.64	6,763.06	6,680.64	42.97	22.19	160.80	-440.75	-801.15	2,044.35	1,996.50	47.86	42.717	
7,200.00	6,780.64	6,863.06	6,780.64	43.05	22.32	160.80	-440.75	-801.15	2,044.35	1,996.24	48.11	42.492	
7,300.00	6,880.64	6,963.06	6,880.64	43.12	22.46	160.80	-440.75	-801.15	2,044.35	1,995.99	48.37	42.267	
7,400.00	6,980.64	7,063.06	6,980.64	43.20	22.59	160.80	-440.75	-801.15	2,044.35	1,995.73	48.63	42.042	
7,500.00	7,080.64	7,163.06	7,080.64	43.27	22.73	160.80	-440.75	-801.15	2,044.35	1,995.47	48.89	41.817	
7,600.00	7,180.64	7,263.06	7,180.64	43.35	22.87	160.80	-440.75	-801.15	2,044.35	1,995.20	49.15	41.593	
7,700.00	7,280.64	7,363.06	7,280.64	43.43	23.01	160.80	-440.75	-801.15	2,044.35	1,994.94	49.42	41.368	
7,800.00	7,380.64	7,463.06	7,380.64	43.51	23.15	160.80	-440.75	-801.15	2,044.35	1,994.67	49.69	41.144	
7,900.00	7,480.64	7,563.06	7,480.64	43.59	23.29	160.80	-440.75	-801.15	2,044.35	1,994.39	49.96	40.919	
8,000.00	7,580.64	7,663.06	7,580.64	43.67	23.43	160.80	-440.75	-801.15	2,044.35	1,994.12	50.24	40.696	
8,100.00	7,680.64	7,763.06	7,680.64	43.76	23.58	160.80	-440.75	-801.15	2,044.35	1,993.84	50.51	40.472	
8,200.00	7,780.64	7,863.06	7,780.64	43.84	23.72	160.80	-440.75	-801.15	2,044.35	1,993.56	50.79	40.249	
8,300.00	7,880.64	7,963.06	7,880.64	43.93	23.87	160.80	-440.75	-801.15	2,044.35	1,993.28	51.07	40.027	
8,312.36	7,893.00	7,975.42	7,893.00	43.94	23.89	160.80	-440.75	-801.15	2,044.35	1,993.25	51.11	40.000	
8,312.82	7,893.46	7,975.88	7,893.46	43.94	23.89	160.80	-440.75	-801.15	2,044.35	1,993.24	51.11	39.999	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 29-35 - P_DRY CREEK 29-35 - PLAN #1 10-28-09 R													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	-108.01	-14.58	-44.82	47.13					
100.00	100.00	100.00	100.00	0.10	0.10	-108.01	-14.58	-44.82	47.13	46.94	0.19	246.683		
200.00	200.00	200.00	200.00	0.32	0.32	-108.01	-14.58	-44.82	47.13	46.49	0.64	73.572		
300.00	299.98	299.94	299.92	0.54	0.54	-63.12	-12.94	-45.41	46.41	45.32	1.09	42.721		
400.00	399.84	399.84	399.68	0.77	0.78	-62.44	-8.03	-47.20	44.24	42.70	1.54	28.647		
500.00	499.45	499.68	499.14	1.03	1.03	-61.13	0.14	-50.17	40.65	38.61	2.04	19.935		
600.00	598.70	599.42	598.13	1.31	1.31	-58.86	11.55	-54.31	35.68	33.09	2.59	13.788		
700.00	697.47	699.03	696.51	1.64	1.63	-54.81	26.17	-59.62	29.42	26.23	3.20	9.209		
800.00	795.62	798.48	794.13	2.02	2.00	-46.78	43.97	-66.08	22.12	18.30	3.83	5.782		
900.00	893.06	897.73	890.86	2.46	2.43	-27.48	64.89	-73.68	14.69	10.42	4.28	3.435		
986.72	976.87	983.63	973.89	2.89	2.85	12.43	85.53	-81.18	11.23	6.81	4.42	2.540 CC		
1,000.00	989.64	996.77	986.54	2.95	2.91	20.19	88.90	-82.40	11.34	6.79	4.54	2.496 ES, SF		
1,100.00	1,085.27	1,095.56	1,081.04	3.51	3.45	63.28	115.93	-92.22	17.94	11.64	6.29	2.850		
1,200.00	1,179.82	1,194.07	1,174.24	4.14	4.05	79.96	145.91	-103.11	30.00	22.18	7.83	3.833		
1,300.00	1,273.17	1,292.29	1,266.02	4.83	4.70	87.20	178.79	-115.06	44.48	35.23	9.25	4.807		
1,400.00	1,365.21	1,390.20	1,356.25	5.58	5.42	91.01	214.48	-128.02	60.67	49.93	10.74	5.650		
1,433.46	1,395.71	1,422.88	1,386.08	5.85	5.67	91.89	227.04	-132.58	66.42	55.17	11.25	5.903		
1,500.00	1,456.17	1,488.22	1,445.42	6.40	6.19	93.25	252.75	-141.92	78.16	65.86	12.30	6.355		
1,600.00	1,547.04	1,586.62	1,534.76	7.22	6.97	94.62	291.51	-156.00	95.87	81.99	13.88	6.906		
1,700.00	1,637.92	1,685.02	1,624.10	8.05	7.76	95.56	330.27	-170.08	113.62	98.15	15.47	7.343		
1,800.00	1,728.79	1,783.41	1,713.44	8.89	8.56	96.25	369.04	-184.16	131.40	114.32	17.07	7.696		
1,900.00	1,819.66	1,881.81	1,802.77	9.73	9.36	96.78	407.80	-198.24	149.18	130.50	18.68	7.987		
2,000.00	1,910.53	1,980.21	1,892.11	10.58	10.17	97.19	446.56	-212.32	166.98	146.69	20.29	8.231		
2,100.00	2,001.41	2,078.61	1,981.45	11.42	10.97	97.53	485.33	-226.40	184.78	162.88	21.90	8.437		
2,200.00	2,092.28	2,177.00	2,070.78	12.27	11.78	97.80	524.09	-240.48	202.59	179.08	23.52	8.615		
2,300.00	2,183.15	2,275.40	2,160.12	13.12	12.58	98.03	562.86	-254.56	220.41	195.27	25.13	8.769		
2,400.00	2,274.03	2,373.80	2,249.46	13.97	13.39	98.23	601.62	-268.64	238.22	211.47	26.75	8.904		
2,500.00	2,364.90	2,472.20	2,338.80	14.82	14.20	98.40	640.38	-282.72	256.04	227.66	28.37	9.024		
2,600.00	2,455.77	2,570.59	2,428.13	15.67	15.01	98.54	679.15	-296.81	273.86	243.86	30.00	9.129		
2,700.00	2,546.65	2,668.99	2,517.47	16.52	15.82	98.67	717.91	-310.89	291.68	260.06	31.62	9.224		
2,800.00	2,637.52	2,767.39	2,606.81	17.37	16.63	98.79	756.68	-324.97	309.50	276.26	33.25	9.310		
2,900.00	2,728.39	2,865.78	2,696.14	18.22	17.45	98.89	795.44	-339.05	327.32	292.45	34.87	9.387		
3,000.00	2,819.27	2,964.18	2,785.48	19.08	18.26	98.98	834.20	-353.13	345.15	308.65	36.50	9.457		
3,100.00	2,910.14	3,062.58	2,874.82	19.93	19.07	99.06	872.97	-367.21	362.97	324.85	38.12	9.521		
3,200.00	3,001.01	3,160.98	2,964.16	20.78	19.88	99.13	911.73	-381.29	380.80	341.05	39.75	9.579		
3,300.00	3,091.89	3,259.37	3,053.49	21.64	20.70	99.20	950.49	-395.37	398.63	357.25	41.38	9.633		
3,400.00	3,182.76	3,357.77	3,142.83	22.49	21.51	99.26	989.26	-409.45	416.45	373.45	43.01	9.683		
3,500.00	3,273.63	3,456.17	3,232.17	23.35	22.32	99.32	1,028.02	-423.53	434.28	389.64	44.64	9.729		
3,600.00	3,364.51	3,554.56	3,321.50	24.20	23.14	99.37	1,066.79	-437.61	452.11	405.84	46.27	9.772		
3,700.00	3,455.38	3,652.96	3,410.84	25.05	23.95	99.42	1,105.55	-451.69	469.94	422.04	47.90	9.812		
3,800.00	3,546.25	3,751.36	3,500.18	25.91	24.77	99.47	1,144.31	-465.77	487.76	438.24	49.53	9.849		
3,900.00	3,637.13	3,849.76	3,589.52	26.76	25.58	99.51	1,183.08	-479.85	505.59	454.44	51.16	9.883		
4,000.00	3,728.00	3,948.15	3,678.85	27.62	26.39	99.55	1,221.84	-493.93	523.42	470.64	52.79	9.916		
4,100.00	3,818.87	4,046.55	3,768.19	28.47	27.21	99.58	1,260.60	-508.01	541.25	486.83	54.42	9.946		
4,200.00	3,909.75	4,144.95	3,857.53	29.33	28.02	99.62	1,299.37	-522.09	559.08	503.03	56.05	9.975		
4,300.00	4,000.62	4,243.35	3,946.86	30.19	28.84	99.65	1,338.13	-536.17	576.91	519.23	57.68	10.002		
4,400.00	4,091.49	4,341.74	4,036.20	31.04	29.65	99.68	1,376.90	-550.25	594.74	535.43	59.31	10.028		
4,500.00	4,182.37	4,440.14	4,125.54	31.90	30.47	99.71	1,415.66	-564.33	612.57	551.63	60.94	10.052		
4,600.00	4,273.24	4,538.54	4,214.87	32.75	31.28	99.74	1,454.42	-578.42	630.40	567.83	62.57	10.075		
4,700.00	4,364.11	4,636.93	4,304.21	33.61	32.10	99.76	1,493.19	-592.50	648.23	584.03	64.20	10.096		
4,800.00	4,454.98	4,735.33	4,393.55	34.46	32.91	99.78	1,531.95	-606.58	666.06	600.22	65.84	10.117		
4,900.00	4,545.86	4,833.73	4,482.89	35.32	33.73	99.81	1,570.72	-620.66	683.89	616.42	67.47	10.137		

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

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 29-35 - P_DRY CREEK 29-35 - PLAN #1 10-28-09 R												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	4,636.73	4,932.13	4,572.22	36.18	34.54	99.83	1,609.48	-634.74	701.72	632.62	69.10	10.155	
5,100.00	4,727.60	5,030.52	4,661.56	37.03	35.36	99.85	1,648.24	-648.82	719.55	648.82	70.73	10.173	
5,200.90	4,819.29	5,129.81	4,751.70	37.90	36.18	99.87	1,687.36	-663.02	737.54	665.16	72.38	10.190	
5,300.00	4,910.05	5,227.35	4,840.27	38.63	36.99	100.10	1,725.79	-676.98	754.92	680.99	73.93	10.212	
5,400.00	5,002.96	5,325.78	4,929.64	39.24	37.80	100.08	1,764.56	-691.07	771.87	696.52	75.35	10.243	
5,500.00	5,097.11	5,424.09	5,018.89	39.80	38.62	99.80	1,803.29	-705.14	788.28	711.56	76.72	10.274	
5,600.00	5,192.38	5,522.15	5,107.92	40.30	39.43	99.30	1,841.92	-719.17	804.23	726.20	78.03	10.307	
5,700.00	5,288.65	5,626.17	5,202.86	40.75	40.17	98.60	1,881.88	-733.68	819.53	740.34	79.19	10.349	
5,800.00	5,385.81	5,732.73	5,301.60	41.15	40.80	97.88	1,919.49	-747.35	833.59	753.42	80.17	10.398	
5,900.00	5,483.73	5,840.18	5,402.62	41.50	41.38	97.17	1,953.90	-759.84	846.34	765.31	81.04	10.444	
6,000.00	5,582.30	5,948.51	5,505.78	41.80	41.91	96.47	1,984.96	-771.13	857.76	775.97	81.79	10.487	
6,100.00	5,681.40	6,057.68	5,610.93	42.05	42.39	95.76	2,012.53	-781.14	867.81	785.37	82.43	10.527	
6,200.00	5,780.90	6,167.64	5,717.90	42.24	42.81	95.05	2,036.47	-789.84	876.45	793.49	82.96	10.565	
6,300.00	5,880.69	6,278.37	5,826.51	42.39	43.19	94.34	2,056.67	-797.17	883.66	800.30	83.36	10.600	
6,400.00	5,980.64	6,389.82	5,936.59	42.49	43.50	93.61	2,072.99	-803.10	889.42	805.77	83.65	10.633	
6,434.36	6,015.00	6,428.27	5,974.71	42.51	43.59	48.68	2,077.69	-804.81	891.06	807.35	83.72	10.644	
6,500.00	6,080.64	6,502.01	6,048.00	42.55	43.75	48.19	2,085.35	-807.59	893.75	809.92	83.83	10.662	
6,600.00	6,180.64	6,615.04	6,160.68	42.62	43.94	47.67	2,093.65	-810.61	896.70	812.72	83.98	10.678	
6,700.00	6,280.64	6,728.59	6,274.14	42.69	44.07	47.41	2,097.77	-812.10	898.18	814.05	84.12	10.677	
6,800.00	6,380.64	6,835.10	6,380.64	42.76	44.15	47.38	2,098.24	-812.28	898.35	814.08	84.27	10.661	
6,900.00	6,480.64	6,935.10	6,480.64	42.83	44.22	47.38	2,098.24	-812.28	898.35	813.94	84.41	10.643	
7,000.00	6,580.64	7,035.10	6,580.64	42.90	44.28	47.38	2,098.24	-812.28	898.35	813.80	84.55	10.625	
7,100.00	6,680.64	7,135.10	6,680.64	42.97	44.35	47.38	2,098.24	-812.28	898.35	813.65	84.69	10.607	
7,200.00	6,780.64	7,235.10	6,780.64	43.05	44.42	47.38	2,098.24	-812.28	898.35	813.51	84.84	10.588	
7,300.00	6,880.64	7,335.10	6,880.64	43.12	44.49	47.38	2,098.24	-812.28	898.35	813.36	84.99	10.570	
7,400.00	6,980.64	7,435.10	6,980.64	43.20	44.56	47.38	2,098.24	-812.28	898.35	813.21	85.14	10.551	
7,500.00	7,080.64	7,535.10	7,080.64	43.27	44.63	47.38	2,098.24	-812.28	898.35	813.05	85.30	10.532	
7,600.00	7,180.64	7,635.10	7,180.64	43.35	44.70	47.38	2,098.24	-812.28	898.35	812.90	85.45	10.513	
7,700.00	7,280.64	7,735.10	7,280.64	43.43	44.77	47.38	2,098.24	-812.28	898.35	812.74	85.61	10.493	
7,800.00	7,380.64	7,835.10	7,380.64	43.51	44.85	47.38	2,098.24	-812.28	898.35	812.58	85.77	10.474	
7,900.00	7,480.64	7,935.10	7,480.64	43.59	44.92	47.38	2,098.24	-812.28	898.35	812.42	85.93	10.454	
8,000.00	7,580.64	8,035.10	7,580.64	43.67	45.00	47.38	2,098.24	-812.28	898.35	812.25	86.10	10.434	
8,100.00	7,680.64	8,135.10	7,680.64	43.76	45.08	47.38	2,098.24	-812.28	898.35	812.09	86.26	10.414	
8,200.00	7,780.64	8,235.10	7,780.64	43.84	45.15	47.38	2,098.24	-812.28	898.35	811.92	86.43	10.394	
8,300.00	7,880.64	8,335.10	7,880.64	43.93	45.23	47.38	2,098.24	-812.28	898.35	811.75	86.60	10.374	
8,312.36	7,893.00	8,347.46	7,893.00	43.94	45.24	47.38	2,098.24	-812.28	898.35	811.73	86.62	10.371	
8,312.82	7,893.46	8,347.92	7,893.46	43.94	45.24	47.38	2,098.24	-812.28	898.35	811.73	86.62	10.371	



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 3-35 - P_DRY CREEK 3-35 - PLAN #1 10-28-09 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN												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	66.54	7.29	16.81	18.32				
100.00	100.00	100.00	100.00	0.10	1.70	66.54	7.29	16.81	18.32	16.53	1.80	10.204	
200.00	200.00	200.00	200.00	0.32	5.70	66.54	7.29	16.81	18.32	12.30	6.02	3.043 CC	
300.00	299.98	299.80	299.78	0.54	9.68	111.08	9.02	16.61	19.46	9.24	10.22	1.903	
400.00	399.84	399.53	399.36	0.77	13.68	110.74	14.19	16.01	22.87	8.43	14.44	1.584 ES	
500.00	499.45	499.10	498.55	1.03	17.71	110.34	22.79	15.02	28.55	9.85	18.70	1.527 SF	
600.00	598.70	598.44	597.16	1.31	21.80	109.96	34.78	13.64	36.48	13.46	23.03	1.584	
700.00	697.47	697.48	694.98	1.64	25.96	109.63	50.10	11.87	46.66	19.22	27.44	1.700	
800.00	795.62	796.14	791.85	2.02	30.21	109.33	68.69	9.73	59.06	27.09	31.96	1.848	
900.00	893.06	894.37	887.59	2.46	34.57	109.05	90.48	7.22	73.65	37.04	36.61	2.012	
1,000.00	989.64	992.09	982.04	2.95	39.05	108.79	115.39	4.35	90.42	49.03	41.39	2.185	
1,100.00	1,085.27	1,089.25	1,075.04	3.51	43.66	108.53	143.30	1.13	109.32	63.01	46.31	2.361	
1,200.00	1,179.82	1,185.78	1,166.44	4.14	48.41	108.26	174.13	-2.42	130.32	78.94	51.38	2.536	
1,300.00	1,273.17	1,281.65	1,256.13	4.83	53.31	107.98	207.75	-6.29	153.39	96.78	56.61	2.710	
1,400.00	1,365.21	1,376.80	1,343.98	5.58	58.35	107.69	244.05	-10.48	178.48	116.49	61.99	2.879	
1,433.46	1,395.71	1,408.47	1,372.95	5.85	60.06	107.59	256.77	-11.94	187.32	123.51	63.80	2.936	
1,500.00	1,456.17	1,472.36	1,431.15	6.40	63.58	107.67	282.95	-14.96	205.18	137.55	67.63	3.034	
1,600.00	1,547.04	1,568.69	1,518.89	7.22	68.94	107.76	322.45	-19.51	232.03	158.58	73.45	3.159	
1,700.00	1,637.92	1,665.01	1,606.63	8.05	74.34	107.84	361.95	-24.07	258.88	179.56	79.32	3.264	
1,800.00	1,728.79	1,761.34	1,694.37	8.89	79.78	107.89	401.45	-28.62	285.73	200.50	85.23	3.352	
1,900.00	1,819.66	1,857.67	1,782.10	9.73	85.25	107.94	440.95	-33.17	312.58	221.40	91.18	3.428	
2,000.00	1,910.53	1,954.00	1,869.84	10.58	90.75	107.98	480.44	-37.72	339.43	242.28	97.15	3.494	
2,100.00	2,001.41	2,050.32	1,957.58	11.42	96.27	108.02	519.94	-42.27	366.29	263.14	103.15	3.551	
2,200.00	2,092.28	2,146.65	2,045.32	12.27	101.80	108.05	559.44	-46.82	393.14	283.98	109.16	3.602	
2,300.00	2,183.15	2,242.98	2,133.06	13.12	107.35	108.07	598.94	-51.38	419.99	304.80	115.19	3.646	
2,400.00	2,274.03	2,339.31	2,220.80	13.97	112.91	108.10	638.44	-55.93	446.84	325.61	121.23	3.686	
2,500.00	2,364.90	2,435.63	2,308.54	14.82	118.48	108.12	677.93	-60.48	473.69	346.41	127.29	3.721	
2,600.00	2,455.77	2,531.96	2,396.28	15.67	124.06	108.14	717.43	-65.03	500.55	367.20	133.35	3.754	
2,700.00	2,546.65	2,628.29	2,484.02	16.52	129.65	108.15	756.93	-69.58	527.40	387.98	139.42	3.783	
2,800.00	2,637.52	2,724.61	2,571.76	17.37	135.24	108.17	796.43	-74.14	554.25	408.75	145.50	3.809	
2,900.00	2,728.39	2,820.94	2,659.49	18.22	140.85	108.18	835.93	-78.69	581.10	429.51	151.59	3.833	
3,000.00	2,819.27	2,917.27	2,747.23	19.08	146.45	108.19	875.42	-83.24	607.96	450.27	157.68	3.856	
3,100.00	2,910.14	3,013.60	2,834.97	19.93	152.07	108.20	914.92	-87.79	634.81	471.02	163.78	3.876	
3,200.00	3,001.01	3,109.92	2,922.71	20.78	157.68	108.21	954.42	-92.34	661.66	491.77	169.89	3.895	
3,300.00	3,091.89	3,206.25	3,010.45	21.64	163.30	108.22	993.92	-96.90	688.51	512.52	175.99	3.912	
3,400.00	3,182.76	3,302.58	3,098.19	22.49	168.93	108.23	1,033.42	-101.45	715.37	533.26	182.10	3.928	
3,500.00	3,273.63	3,398.90	3,185.93	23.35	174.55	108.24	1,072.91	-106.00	742.22	554.00	188.22	3.943	
3,600.00	3,364.51	3,495.23	3,273.67	24.20	180.18	108.25	1,112.41	-110.55	769.07	574.73	194.34	3.957	
3,700.00	3,455.38	3,591.56	3,361.41	25.05	185.82	108.26	1,151.91	-115.10	795.92	595.46	200.46	3.971	
3,800.00	3,546.25	3,687.89	3,449.14	25.91	191.45	108.26	1,191.41	-119.66	822.78	616.19	206.58	3.983	
3,900.00	3,637.13	3,784.21	3,536.88	26.76	197.09	108.27	1,230.91	-124.21	849.63	636.92	212.71	3.994	
4,000.00	3,728.00	3,888.51	3,632.47	27.62	203.09	108.37	1,272.34	-128.98	876.10	656.89	219.21	3.997	
4,100.00	3,818.87	3,994.36	3,730.96	28.47	208.95	108.71	1,310.86	-133.42	901.58	675.91	225.67	3.995	
4,200.00	3,909.75	4,100.28	3,830.88	29.33	214.57	109.27	1,345.76	-137.44	926.11	694.14	231.97	3.992	
4,300.00	4,000.62	4,206.00	3,931.83	30.19	219.91	110.02	1,376.91	-141.03	949.78	711.70	238.08	3.989	
4,400.00	4,091.49	4,311.21	4,033.38	31.04	224.97	110.96	1,404.22	-144.18	972.69	728.73	243.96	3.987	
4,500.00	4,182.37	4,415.65	4,135.11	31.90	229.74	112.07	1,427.65	-146.88	995.00	745.41	249.59	3.987	
4,600.00	4,273.24	4,519.04	4,236.62	32.75	234.22	113.32	1,447.20	-149.13	1,016.86	761.94	254.92	3.989	
4,700.00	4,364.11	4,621.15	4,337.48	33.61	238.41	114.70	1,462.92	-150.95	1,038.48	778.55	259.93	3.995	
4,800.00	4,454.98	4,721.74	4,437.34	34.46	242.31	116.19	1,474.90	-152.33	1,060.06	795.46	264.59	4.006	
4,900.00	4,545.86	4,820.60	4,535.83	35.32	245.92	117.77	1,483.28	-153.29	1,081.80	812.91	268.89	4.023	
5,000.00	4,636.73	4,917.54	4,632.64	36.18	249.27	119.43	1,488.22	-153.86	1,103.94	831.14	272.80	4.047	

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

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 3-35 - P_DRY CREEK 3-35 - PLAN #1 10-28-09 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN												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	
5,100.00	4,727.60	5,012.41	4,727.50	37.03	252.36	121.15	1,489.89	-154.05	1,126.68	850.35	276.33	4.077	
5,200.90	4,819.29	5,104.21	4,819.29	37.90	255.24	122.84	1,489.89	-154.05	1,150.54	871.03	279.51	4.116	
5,300.00	4,910.05	5,194.96	4,910.05	38.63	258.10	124.78	1,489.89	-154.05	1,174.04	890.40	283.64	4.139	
5,400.00	5,002.96	5,287.88	5,002.96	39.24	261.05	126.54	1,489.89	-154.05	1,196.62	908.91	287.71	4.159	
5,500.00	5,097.11	5,382.03	5,097.11	39.80	264.06	128.11	1,489.89	-154.05	1,217.82	926.07	291.76	4.174	
5,600.00	5,192.38	5,477.30	5,192.38	40.30	267.13	129.49	1,489.89	-154.05	1,237.42	941.66	295.76	4.184	
5,700.00	5,288.65	5,573.57	5,288.65	40.75	270.24	130.70	1,489.89	-154.05	1,255.22	955.50	299.72	4.188	
5,800.00	5,385.81	5,670.72	5,385.81	41.15	273.41	131.73	1,489.89	-154.05	1,271.06	967.44	303.62	4.186	
5,900.00	5,483.73	5,768.65	5,483.73	41.50	276.62	132.61	1,489.89	-154.05	1,284.82	977.36	307.46	4.179	
6,000.00	5,582.30	5,867.22	5,582.30	41.80	279.86	133.32	1,489.89	-154.05	1,296.37	985.16	311.21	4.166	
6,100.00	5,681.40	5,966.31	5,681.40	42.05	283.15	133.88	1,489.89	-154.05	1,305.64	990.76	314.88	4.146	
6,200.00	5,780.90	6,065.81	5,780.90	42.24	286.46	134.29	1,489.89	-154.05	1,312.56	994.09	318.46	4.122	
6,300.00	5,880.69	6,165.60	5,880.69	42.39	289.80	134.55	1,489.89	-154.05	1,317.06	995.12	321.94	4.091	
6,400.00	5,980.64	6,265.55	5,980.64	42.49	293.16	134.67	1,489.89	-154.05	1,319.13	993.81	325.32	4.055	
6,434.36	6,015.00	6,299.92	6,015.00	42.51	294.32	90.00	1,489.89	-154.05	1,319.27	992.82	326.45	4.041	
6,500.00	6,080.64	6,365.55	6,080.64	42.55	296.54	90.00	1,489.89	-154.05	1,319.27	990.55	328.73	4.013	
6,600.00	6,180.64	6,465.55	6,180.64	42.62	299.93	90.00	1,489.89	-154.05	1,319.27	987.06	332.21	3.971	
6,700.00	6,280.64	6,565.55	6,280.64	42.69	303.34	90.00	1,489.89	-154.05	1,319.27	983.57	335.71	3.930	
6,800.00	6,380.64	6,665.55	6,380.64	42.76	306.77	90.00	1,489.89	-154.05	1,319.27	980.05	339.22	3.889	
6,900.00	6,480.64	6,765.55	6,480.64	42.83	310.20	90.00	1,489.89	-154.05	1,319.27	976.52	342.75	3.849	
7,000.00	6,580.64	6,865.55	6,580.64	42.90	313.65	90.00	1,489.89	-154.05	1,319.27	972.98	346.29	3.810	
7,100.00	6,680.64	6,965.55	6,680.64	42.97	317.12	90.00	1,489.89	-154.05	1,319.27	969.42	349.85	3.771	
7,200.00	6,780.64	7,065.55	6,780.64	43.05	320.59	90.00	1,489.89	-154.05	1,319.27	965.85	353.42	3.733	
7,300.00	6,880.64	7,165.55	6,880.64	43.12	324.08	90.00	1,489.89	-154.05	1,319.27	962.27	357.01	3.695	
7,400.00	6,980.64	7,265.55	6,980.64	43.20	327.58	90.00	1,489.89	-154.05	1,319.27	958.67	360.60	3.659	
7,500.00	7,080.64	7,365.55	7,080.64	43.27	331.09	90.00	1,489.89	-154.05	1,319.27	955.06	364.21	3.622	
7,600.00	7,180.64	7,465.55	7,180.64	43.35	334.61	90.00	1,489.89	-154.05	1,319.27	951.44	367.83	3.587	
7,700.00	7,280.64	7,565.55	7,280.64	43.43	338.15	90.00	1,489.89	-154.05	1,319.27	947.81	371.47	3.552	
7,800.00	7,380.64	7,665.55	7,380.64	43.51	341.69	90.00	1,489.89	-154.05	1,319.27	944.16	375.11	3.517	
7,900.00	7,480.64	7,765.55	7,480.64	43.59	345.24	90.00	1,489.89	-154.05	1,319.27	940.51	378.77	3.483	
8,000.00	7,580.64	7,865.55	7,580.64	43.67	348.80	90.00	1,489.89	-154.05	1,319.27	936.84	382.43	3.450	
8,100.00	7,680.64	7,965.55	7,680.64	43.76	352.38	90.00	1,489.89	-154.05	1,319.27	933.16	386.11	3.417	
8,200.00	7,780.64	8,065.55	7,780.64	43.84	355.96	90.00	1,489.89	-154.05	1,319.27	929.48	389.80	3.385	
8,263.91	7,844.55	8,129.46	7,844.55	43.89	358.25	90.00	1,489.89	-154.05	1,319.27	927.11	392.16	3.364	
8,300.00	7,880.64	8,157.92	7,873.00	43.93	359.27	90.00	1,489.89	-154.05	1,319.30	926.08	393.22	3.355	
8,312.36	7,893.00	8,157.92	7,873.00	43.94	359.27	90.00	1,489.89	-154.05	1,319.43	926.19	393.23	3.355	
8,312.82	7,893.46	8,157.92	7,873.00	43.94	359.27	90.00	1,489.89	-154.05	1,319.43	926.20	393.23	3.355	



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 5-35 - P_DRY CREEK 5-35 - PLAN #1 10-28-09 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-104.58	-3.64	-14.01	14.47				
100.00	100.00	100.00	100.00	0.10	0.10	-104.58	-3.64	-14.01	14.47	14.28	0.19	75.748	
200.00	200.00	200.00	200.00	0.32	0.32	-104.58	-3.64	-14.01	14.47	13.83	0.64	22.592 CC, ES	
300.00	299.98	299.52	299.50	0.54	0.53	-63.18	-3.44	-15.72	15.24	14.16	1.08	14.167	
400.00	399.84	398.96	398.80	0.77	0.76	-71.18	-2.83	-20.86	17.79	16.27	1.52	11.707	
500.00	499.45	498.24	497.70	1.03	1.01	-80.16	-1.82	-29.41	22.57	20.56	2.01	11.253 SF	
600.00	598.70	597.29	596.02	1.31	1.30	-87.61	-0.42	-41.32	29.81	27.25	2.56	11.660	
700.00	697.47	696.04	693.56	1.64	1.62	-93.01	1.38	-56.55	39.53	36.34	3.19	12.391	
800.00	795.62	794.41	790.15	2.02	2.00	-96.75	3.56	-75.03	51.66	47.74	3.92	13.185	
900.00	893.06	892.33	885.61	2.46	2.44	-99.33	6.12	-96.68	66.12	61.37	4.75	13.926	
1,000.00	989.64	989.73	979.77	2.95	2.93	-101.11	9.04	-121.43	82.84	77.16	5.68	14.574	
1,100.00	1,085.27	1,086.57	1,072.49	3.51	3.47	-102.35	12.31	-149.16	101.77	95.04	6.73	15.118	
1,200.00	1,179.82	1,182.77	1,163.61	4.14	4.08	-103.21	15.92	-179.78	122.86	114.97	7.89	15.568	
1,300.00	1,273.17	1,278.30	1,253.02	4.83	4.75	-103.80	19.86	-213.17	146.05	136.89	9.17	15.935	
1,400.00	1,365.21	1,373.10	1,340.59	5.58	5.47	-104.18	24.12	-249.22	171.30	160.75	10.55	16.239	
1,433.46	1,395.71	1,405.15	1,369.95	5.85	5.73	-104.30	25.62	-261.98	180.17	169.13	11.04	16.321	
1,500.00	1,456.17	1,469.24	1,428.66	6.40	6.25	-104.93	28.64	-287.51	197.92	185.88	12.04	16.432	
1,600.00	1,547.04	1,565.57	1,516.90	7.22	7.04	-105.69	33.17	-325.88	224.64	211.07	13.57	16.556	
1,700.00	1,637.92	1,661.90	1,605.14	8.05	7.83	-106.28	37.70	-364.26	251.38	236.28	15.10	16.643	
1,800.00	1,728.79	1,758.23	1,693.38	8.89	8.63	-106.76	42.23	-402.63	278.15	261.50	16.65	16.707	
1,900.00	1,819.66	1,854.56	1,781.62	9.73	9.44	-107.16	46.76	-441.00	304.92	286.73	18.20	16.755	
2,000.00	1,910.53	1,950.88	1,869.86	10.58	10.24	-107.49	51.28	-479.38	331.71	311.96	19.75	16.793	
2,100.00	2,001.41	2,047.21	1,958.10	11.42	11.05	-107.78	55.81	-517.75	358.51	337.20	21.31	16.822	
2,200.00	2,092.28	2,143.54	2,046.33	12.27	11.86	-108.02	60.34	-556.13	385.32	362.45	22.87	16.845	
2,300.00	2,183.15	2,239.87	2,134.57	13.12	12.67	-108.23	64.87	-594.50	412.13	387.69	24.44	16.864	
2,400.00	2,274.03	2,336.20	2,222.81	13.97	13.48	-108.42	69.40	-632.87	438.95	412.94	26.00	16.880	
2,500.00	2,364.90	2,432.52	2,311.05	14.82	14.29	-108.58	73.93	-671.25	465.77	438.20	27.57	16.893	
2,600.00	2,455.77	2,528.85	2,399.29	15.67	15.10	-108.73	78.46	-709.62	492.59	463.45	29.14	16.904	
2,700.00	2,546.65	2,625.18	2,487.53	16.52	15.92	-108.86	82.99	-748.00	519.42	488.71	30.71	16.913	
2,800.00	2,637.52	2,721.51	2,575.76	17.37	16.73	-108.98	87.52	-786.37	546.25	513.96	32.28	16.921	
2,900.00	2,728.39	2,817.84	2,664.00	18.22	17.55	-109.08	92.05	-824.74	573.08	539.22	33.85	16.928	
3,000.00	2,819.27	2,914.17	2,752.24	19.08	18.36	-109.18	96.58	-863.12	599.91	564.48	35.43	16.934	
3,100.00	2,910.14	3,010.49	2,840.48	19.93	19.18	-109.27	101.11	-901.49	626.74	589.74	37.00	16.939	
3,200.00	3,001.01	3,106.82	2,928.72	20.78	19.99	-109.35	105.64	-939.87	653.58	615.00	38.57	16.944	
3,300.00	3,091.89	3,203.15	3,016.96	21.64	20.81	-109.43	110.17	-978.24	680.41	640.27	40.15	16.948	
3,400.00	3,182.76	3,299.48	3,105.20	22.49	21.62	-109.50	114.69	-1,016.61	707.25	665.53	41.72	16.951	
3,500.00	3,273.63	3,395.81	3,193.43	23.35	22.44	-109.56	119.22	-1,054.99	734.09	690.79	43.30	16.954	
3,600.00	3,364.51	3,492.13	3,281.67	24.20	23.25	-109.62	123.75	-1,093.36	760.93	716.05	44.87	16.957	
3,700.00	3,455.38	3,588.46	3,369.91	25.05	24.07	-109.68	128.28	-1,131.74	787.77	741.32	46.45	16.960	
3,800.00	3,546.25	3,684.79	3,458.15	25.91	24.89	-109.73	132.81	-1,170.11	814.61	766.58	48.03	16.962	
3,900.00	3,637.13	3,781.12	3,546.39	26.76	25.70	-109.78	137.34	-1,208.49	841.45	791.85	49.60	16.964	
4,000.00	3,728.00	3,882.05	3,639.07	27.62	26.50	-109.87	142.03	-1,248.18	868.15	816.99	51.16	16.970	
4,100.00	3,818.87	3,987.14	3,736.86	28.47	27.16	-110.17	146.53	-1,286.36	894.02	841.42	52.59	16.999	
4,200.00	3,909.75	4,092.32	3,836.09	29.33	27.75	-110.69	150.62	-1,320.99	918.99	865.04	53.95	17.034	
4,300.00	4,000.62	4,197.30	3,936.34	30.19	28.29	-111.42	154.27	-1,351.92	943.16	887.92	55.24	17.074	
4,400.00	4,091.49	4,301.81	4,037.20	31.04	28.75	-112.32	157.47	-1,379.06	966.62	910.17	56.45	17.125	
4,500.00	4,182.37	4,405.57	4,138.26	31.90	29.16	-113.40	160.23	-1,402.39	989.51	931.95	57.56	17.190	
4,600.00	4,273.24	4,508.33	4,239.12	32.75	29.50	-114.61	162.53	-1,421.88	1,012.01	953.42	58.59	17.274	
4,700.00	4,364.11	4,609.83	4,339.38	33.61	29.79	-115.96	164.38	-1,437.61	1,034.29	974.78	59.51	17.381	
4,800.00	4,454.98	4,709.85	4,438.66	34.46	30.02	-117.42	165.80	-1,449.64	1,056.55	996.22	60.32	17.515	
4,900.00	4,545.86	4,808.19	4,536.63	35.32	30.20	-118.97	166.80	-1,458.11	1,078.99	1,017.97	61.03	17.681	
5,000.00	4,636.73	4,904.67	4,632.96	36.18	30.33	-120.60	167.40	-1,463.16	1,101.84	1,040.23	61.62	17.882	

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

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 6-35 PAD - P_DRY CREEK 5-35 - P_DRY CREEK 5-35 - PLAN #1 10-28-09 RHS													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	
5,100.00	4,727.60	4,999.11	4,727.38	37.03	30.41	-122.29	167.62	-1,464.99	1,125.31	1,063.22	62.10	18.122	
5,200.90	4,819.29	5,091.02	4,819.29	37.90	30.47	-123.96	167.62	-1,465.00	1,149.88	1,087.37	62.51	18.396	
5,300.00	4,910.05	5,181.78	4,910.05	38.63	30.54	-125.88	167.62	-1,465.00	1,174.01	1,111.17	62.84	18.683	
5,400.00	5,002.96	5,274.69	5,002.96	39.24	30.61	-127.63	167.62	-1,465.00	1,197.16	1,134.12	63.05	18.988	
5,500.00	5,097.11	5,368.84	5,097.11	39.80	30.68	-129.19	167.62	-1,465.00	1,218.87	1,155.64	63.22	19.279	
5,600.00	5,192.38	5,464.11	5,192.38	40.30	30.76	-130.56	167.62	-1,465.00	1,238.90	1,175.53	63.37	19.552	
5,700.00	5,288.65	5,560.38	5,288.65	40.75	30.84	-131.75	167.62	-1,465.00	1,257.07	1,193.59	63.49	19.800	
5,800.00	5,385.81	5,657.54	5,385.81	41.15	30.92	-132.78	167.62	-1,465.00	1,273.24	1,209.65	63.59	20.022	
5,900.00	5,483.73	5,755.46	5,483.73	41.50	31.00	-133.64	167.62	-1,465.00	1,287.26	1,223.58	63.69	20.213	
6,000.00	5,582.30	5,854.03	5,582.30	41.80	31.08	-134.34	167.62	-1,465.00	1,299.03	1,235.27	63.77	20.371	
6,100.00	5,681.40	5,953.12	5,681.40	42.05	31.17	-134.89	167.62	-1,465.00	1,308.47	1,244.63	63.85	20.494	
6,200.00	5,780.90	6,052.63	5,780.90	42.24	31.25	-135.29	167.62	-1,465.00	1,315.51	1,251.59	63.92	20.581	
6,300.00	5,880.69	6,152.42	5,880.69	42.39	31.34	-135.55	167.62	-1,465.00	1,320.09	1,256.10	63.99	20.629	
6,400.00	5,980.64	6,252.37	5,980.64	42.49	31.43	-135.67	167.62	-1,465.00	1,322.20	1,258.13	64.06	20.639	
6,434.36	6,015.00	6,286.73	6,015.00	42.51	31.46	179.64	167.62	-1,465.00	1,322.35	1,258.26	64.09	20.633	
6,500.00	6,080.64	6,352.37	6,080.64	42.55	31.52	179.64	167.62	-1,465.00	1,322.35	1,258.15	64.20	20.597	
6,600.00	6,180.64	6,452.37	6,180.64	42.62	31.61	179.64	167.62	-1,465.00	1,322.35	1,257.97	64.38	20.540	
6,700.00	6,280.64	6,552.37	6,280.64	42.69	31.71	179.64	167.62	-1,465.00	1,322.35	1,257.78	64.56	20.482	
6,800.00	6,380.64	6,652.37	6,380.64	42.76	31.80	179.64	167.62	-1,465.00	1,322.35	1,257.60	64.75	20.423	
6,900.00	6,480.64	6,752.37	6,480.64	42.83	31.90	179.64	167.62	-1,465.00	1,322.35	1,257.41	64.94	20.364	
7,000.00	6,580.64	6,852.37	6,580.64	42.90	32.00	179.64	167.62	-1,465.00	1,322.35	1,257.22	65.13	20.304	
7,100.00	6,680.64	6,952.37	6,680.64	42.97	32.10	179.64	167.62	-1,465.00	1,322.35	1,257.03	65.32	20.244	
7,200.00	6,780.64	7,052.37	6,780.64	43.05	32.20	179.64	167.62	-1,465.00	1,322.35	1,256.83	65.52	20.184	
7,300.00	6,880.64	7,152.37	6,880.64	43.12	32.30	179.64	167.62	-1,465.00	1,322.35	1,256.63	65.71	20.123	
7,400.00	6,980.64	7,252.37	6,980.64	43.20	32.40	179.64	167.62	-1,465.00	1,322.35	1,256.43	65.91	20.062	
7,500.00	7,080.64	7,352.37	7,080.64	43.27	32.51	179.64	167.62	-1,465.00	1,322.35	1,256.23	66.12	20.000	
7,600.00	7,180.64	7,452.37	7,180.64	43.35	32.61	179.64	167.62	-1,465.00	1,322.35	1,256.02	66.32	19.938	
7,700.00	7,280.64	7,552.37	7,280.64	43.43	32.72	179.64	167.62	-1,465.00	1,322.35	1,255.82	66.53	19.876	
7,800.00	7,380.64	7,652.37	7,380.64	43.51	32.82	179.64	167.62	-1,465.00	1,322.35	1,255.61	66.74	19.813	
7,900.00	7,480.64	7,752.37	7,480.64	43.59	32.93	179.64	167.62	-1,465.00	1,322.35	1,255.39	66.95	19.750	
8,000.00	7,580.64	7,852.37	7,580.64	43.67	33.04	179.64	167.62	-1,465.00	1,322.35	1,255.18	67.17	19.687	
8,100.00	7,680.64	7,952.37	7,680.64	43.76	33.15	179.64	167.62	-1,465.00	1,322.35	1,254.96	67.39	19.624	
8,200.00	7,780.64	8,052.37	7,780.64	43.84	33.27	179.64	167.62	-1,465.00	1,322.35	1,254.74	67.60	19.560	
8,300.00	7,880.64	8,152.37	7,880.64	43.93	33.38	179.64	167.62	-1,465.00	1,322.35	1,254.52	67.83	19.496	
8,312.36	7,893.00	8,164.73	7,893.00	43.94	33.39	179.64	167.62	-1,465.00	1,322.35	1,254.49	67.85	19.488	
8,312.82	7,893.46	8,165.19	7,893.46	43.94	33.39	179.64	167.62	-1,465.00	1,322.35	1,254.49	67.86	19.488	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	158.19	-62.30	24.93	68.00				
100.00	100.00	89.00	89.00	0.10	1.78	158.19	-62.30	24.93	67.10	65.23	1.88	35.778	
200.00	200.00	189.00	189.00	0.32	5.56	158.19	-62.30	24.93	67.10	61.22	5.88	11.411 CC	
300.00	299.98	288.98	288.98	0.54	9.56	-157.68	-62.30	24.93	68.71	58.62	10.10	6.806 ES	
400.00	399.84	388.84	388.84	0.77	13.55	-159.20	-62.30	24.93	73.58	59.29	14.29	5.149	
500.00	499.45	488.45	488.45	1.03	17.54	-161.31	-62.30	24.93	81.79	63.34	18.45	4.433	
600.00	598.70	587.70	587.70	1.31	21.51	-163.64	-62.30	24.93	93.42	70.87	22.55	4.142	
700.00	697.47	686.47	686.47	1.64	25.46	-165.89	-62.30	24.93	108.53	81.95	26.58	4.084 SF	
800.00	795.62	784.62	784.62	2.02	29.38	-167.91	-62.30	24.93	127.13	96.63	30.51	4.167	
900.00	893.06	882.06	882.06	2.46	33.28	-169.63	-62.30	24.93	149.22	114.90	34.32	4.348	
1,000.00	989.64	978.64	978.64	2.95	37.15	-171.08	-62.30	24.93	174.76	136.75	38.01	4.598	
1,100.00	1,085.27	1,074.27	1,074.27	3.51	40.97	-172.27	-62.30	24.93	203.72	162.16	41.55	4.903	
1,200.00	1,179.82	1,168.82	1,168.82	4.14	44.75	-173.25	-62.30	24.93	236.04	191.11	44.94	5.253	
1,300.00	1,273.17	1,262.17	1,262.17	4.83	48.49	-174.06	-62.30	24.93	271.69	223.54	48.14	5.643	
1,400.00	1,365.21	1,354.21	1,354.21	5.58	52.17	-174.73	-62.30	24.93	310.60	259.43	51.17	6.070	
1,433.46	1,395.71	1,384.71	1,384.71	5.85	53.39	-174.93	-62.30	24.93	324.34	272.21	52.13	6.221	
1,500.00	1,456.17	1,445.17	1,445.17	6.40	55.81	-175.33	-62.30	24.93	352.03	297.47	54.56	6.452	
1,600.00	1,547.04	1,536.04	1,536.04	7.22	59.44	-175.82	-62.30	24.93	393.66	335.46	58.21	6.763	
1,700.00	1,637.92	1,626.92	1,626.92	8.05	63.08	-176.22	-62.30	24.93	435.32	373.46	61.86	7.037	
1,800.00	1,728.79	1,717.79	1,717.79	8.89	66.71	-176.55	-62.30	24.93	476.99	411.48	65.51	7.281	
1,900.00	1,819.66	1,808.66	1,808.66	9.73	70.35	-176.83	-62.30	24.93	518.67	449.50	69.17	7.498	
2,000.00	1,910.53	1,899.53	1,899.53	10.58	73.98	-177.07	-62.30	24.93	560.36	487.53	72.83	7.694	
2,100.00	2,001.41	1,990.41	1,990.41	11.42	77.62	-177.27	-62.30	24.93	602.06	525.56	76.50	7.871	
2,200.00	2,092.28	2,081.28	2,081.28	12.27	81.25	-177.45	-62.30	24.93	643.76	563.60	80.16	8.031	
2,300.00	2,183.15	2,172.15	2,172.15	13.12	84.89	-177.60	-62.30	24.93	685.46	601.64	83.82	8.177	
2,400.00	2,274.03	2,263.03	2,263.03	13.97	88.52	-177.74	-62.30	24.93	727.17	639.68	87.49	8.311	
2,500.00	2,364.90	2,353.90	2,353.90	14.82	92.16	-177.86	-62.30	24.93	768.88	677.73	91.16	8.435	
2,600.00	2,455.77	2,444.77	2,444.77	15.67	95.79	-177.97	-62.30	24.93	810.60	715.77	94.83	8.548	
2,700.00	2,546.65	2,535.65	2,535.65	16.52	99.43	-178.07	-62.30	24.93	852.32	753.82	98.49	8.653	
2,800.00	2,637.52	2,626.52	2,626.52	17.37	103.06	-178.16	-62.30	24.93	894.04	791.87	102.16	8.751	
2,900.00	2,728.39	2,717.39	2,717.39	18.22	106.70	-178.24	-62.30	24.93	935.76	829.92	105.83	8.842	
3,000.00	2,819.27	2,808.27	2,808.27	19.08	110.33	-178.32	-62.30	24.93	977.48	867.98	109.50	8.926	
3,100.00	2,910.14	2,899.14	2,899.14	19.93	113.97	-178.39	-62.30	24.93	1,019.20	906.03	113.17	9.006	
3,200.00	3,001.01	2,990.01	2,990.01	20.78	117.60	-178.45	-62.30	24.93	1,060.93	944.08	116.84	9.080	
3,300.00	3,091.89	3,080.89	3,080.89	21.64	121.24	-178.51	-62.30	24.93	1,102.65	982.14	120.52	9.149	
3,400.00	3,182.76	3,171.76	3,171.76	22.49	124.87	-178.56	-62.30	24.93	1,144.38	1,020.19	124.19	9.215	
3,500.00	3,273.63	3,262.63	3,262.63	23.35	128.51	-178.61	-62.30	24.93	1,186.11	1,058.25	127.86	9.277	
3,600.00	3,364.51	3,353.51	3,353.51	24.20	132.14	-178.66	-62.30	24.93	1,227.84	1,096.31	131.53	9.335	
3,700.00	3,455.38	3,444.38	3,444.38	25.05	135.78	-178.70	-62.30	24.93	1,269.57	1,134.36	135.20	9.390	
3,800.00	3,546.25	3,535.25	3,535.25	25.91	139.41	-178.75	-62.30	24.93	1,311.30	1,172.42	138.88	9.442	
3,900.00	3,637.13	3,626.13	3,626.13	26.76	143.05	-178.78	-62.30	24.93	1,353.03	1,210.48	142.55	9.492	
4,000.00	3,728.00	3,717.00	3,717.00	27.62	146.68	-178.82	-62.30	24.93	1,394.76	1,248.54	146.22	9.539	
4,100.00	3,818.87	3,807.87	3,807.87	28.47	150.31	-178.86	-62.30	24.93	1,436.49	1,286.59	149.89	9.583	
4,200.00	3,909.75	3,898.75	3,898.75	29.33	153.95	-178.89	-62.30	24.93	1,478.22	1,324.65	153.57	9.626	
4,300.00	4,000.62	3,989.62	3,989.62	30.19	157.58	-178.92	-62.30	24.93	1,519.95	1,362.71	157.24	9.667	
4,400.00	4,091.49	4,080.49	4,080.49	31.04	161.22	-178.95	-62.30	24.93	1,561.68	1,400.77	160.91	9.705	
4,500.00	4,182.37	4,171.37	4,171.37	31.90	164.85	-178.97	-62.30	24.93	1,603.41	1,438.83	164.58	9.742	
4,600.00	4,273.24	4,262.24	4,262.24	32.75	168.49	-179.00	-62.30	24.93	1,645.15	1,476.89	168.26	9.778	
4,700.00	4,364.11	4,353.11	4,353.11	33.61	172.12	-179.03	-62.30	24.93	1,686.88	1,514.95	171.93	9.811	
4,800.00	4,454.98	4,443.98	4,443.98	34.46	175.76	-179.05	-62.30	24.93	1,728.61	1,553.01	175.61	9.844	
4,900.00	4,545.86	4,534.86	4,534.86	35.32	179.39	-179.07	-62.30	24.93	1,770.35	1,591.07	179.28	9.875	
5,000.00	4,636.73	4,625.73	4,625.73	36.18	183.03	-179.09	-62.30	24.93	1,812.08	1,629.13	182.95	9.905	

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

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> WELD_DRY CREEK 6-35 PAD - RULE #6-35A EXISTING - RULE #6-35A EXISTING - RULE #6-35A E												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-UNKNOWN												<b>Offset Well Error:</b>	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,100.00	4,727.60	4,716.60	4,716.60	37.03	186.66	-179.11	-62.30	24.93	1,853.81	1,667.19	186.63	9.933	
5,200.90	4,819.29	4,808.29	4,808.29	37.90	190.33	-179.13	-62.30	24.93	1,895.92	1,705.59	190.33	9.961	
5,300.00	4,910.05	4,899.05	4,899.05	38.63	193.96	-179.16	-62.30	24.93	1,935.72	1,739.13	196.58	9.847	
5,400.00	5,002.96	4,991.96	4,991.96	39.24	197.68	-179.19	-62.30	24.93	1,972.66	1,769.80	202.86	9.724	
5,500.00	5,097.11	5,086.11	5,086.11	39.80	201.44	-179.21	-62.30	24.93	2,006.35	1,797.33	209.02	9.599	
5,600.00	5,192.38	5,181.38	5,181.38	40.30	205.26	-179.23	-62.30	24.93	2,036.73	1,821.69	215.03	9.472	
5,700.00	5,288.65	5,277.65	5,277.65	40.75	209.11	-179.25	-62.30	24.93	2,063.76	1,842.88	220.88	9.343	
5,800.00	5,385.81	5,374.81	5,374.81	41.15	212.99	-179.27	-62.30	24.93	2,087.42	1,860.88	226.54	9.214	
5,900.00	5,483.73	5,472.73	5,472.73	41.50	216.91	-179.28	-62.30	24.93	2,107.67	1,875.67	232.01	9.085	
6,000.00	5,582.30	5,571.30	5,571.30	41.80	220.85	-179.29	-62.30	24.93	2,124.50	1,887.26	237.24	8.955	
6,100.00	5,681.40	5,670.40	5,670.40	42.05	224.82	-179.30	-62.30	24.93	2,137.87	1,895.64	242.24	8.826	
6,200.00	5,780.90	5,769.90	5,769.90	42.24	228.80	-179.30	-62.30	24.93	2,147.78	1,900.82	246.96	8.697	
6,300.00	5,880.69	5,869.69	5,869.69	42.39	232.79	-179.31	-62.30	24.93	2,154.21	1,902.80	251.41	8.569	
6,400.00	5,980.64	5,969.64	5,969.64	42.49	236.79	-179.31	-62.30	24.93	2,157.16	1,901.61	255.55	8.441	
6,434.36	6,015.00	6,004.00	6,004.00	42.51	238.16	136.01	-62.30	24.93	2,157.36	1,900.46	256.90	8.398	
6,500.00	6,080.64	6,069.64	6,069.64	42.55	240.79	136.01	-62.30	24.93	2,157.36	1,897.75	259.61	8.310	
6,600.00	6,180.64	6,169.64	6,169.64	42.62	244.79	136.01	-62.30	24.93	2,157.36	1,893.61	263.75	8.180	
6,700.00	6,280.64	6,269.64	6,269.64	42.69	248.79	136.01	-62.30	24.93	2,157.36	1,889.47	267.89	8.053	
6,800.00	6,380.64	6,369.64	6,369.64	42.76	252.79	136.01	-62.30	24.93	2,157.36	1,885.32	272.04	7.930	
6,900.00	6,480.64	6,469.64	6,469.64	42.83	256.79	136.01	-62.30	24.93	2,157.36	1,881.18	276.18	7.811	
7,000.00	6,580.64	6,569.64	6,569.64	42.90	260.79	136.01	-62.30	24.93	2,157.36	1,877.03	280.33	7.696	
7,100.00	6,680.64	6,669.64	6,669.64	42.97	264.79	136.01	-62.30	24.93	2,157.36	1,872.88	284.48	7.584	
7,200.00	6,780.64	6,769.64	6,769.64	43.05	268.79	136.01	-62.30	24.93	2,157.36	1,868.73	288.63	7.474	
7,300.00	6,880.64	6,869.64	6,869.64	43.12	272.79	136.01	-62.30	24.93	2,157.36	1,864.58	292.78	7.369	
7,400.00	6,980.64	6,969.64	6,969.64	43.20	276.79	136.01	-62.30	24.93	2,157.36	1,860.43	296.93	7.265	
7,500.00	7,080.64	7,069.64	7,069.64	43.27	280.79	136.01	-62.30	24.93	2,157.36	1,856.28	301.09	7.165	
7,600.00	7,180.64	7,169.64	7,169.64	43.35	284.79	136.01	-62.30	24.93	2,157.36	1,852.12	305.24	7.068	
7,700.00	7,280.64	7,269.64	7,269.64	43.43	288.79	136.01	-62.30	24.93	2,157.36	1,847.96	309.40	6.973	
7,800.00	7,380.64	7,369.64	7,369.64	43.51	292.79	136.01	-62.30	24.93	2,157.36	1,843.80	313.56	6.880	
7,900.00	7,480.64	7,469.64	7,469.64	43.59	296.79	136.01	-62.30	24.93	2,157.36	1,839.65	317.72	6.790	
8,000.00	7,580.64	7,569.64	7,569.64	43.67	300.79	136.01	-62.30	24.93	2,157.36	1,835.49	321.88	6.702	
8,100.00	7,680.64	7,669.64	7,669.64	43.76	304.79	136.01	-62.30	24.93	2,157.36	1,831.32	326.04	6.617	
8,200.00	7,780.64	7,769.64	7,769.64	43.84	308.79	136.01	-62.30	24.93	2,157.36	1,827.16	330.20	6.533	
8,300.00	7,880.64	7,869.64	7,869.64	43.93	312.79	136.01	-62.30	24.93	2,157.36	1,823.00	334.37	6.452	
8,312.36	7,893.00	7,882.00	7,882.00	43.94	313.28	136.01	-62.30	24.93	2,157.36	1,822.48	334.88	6.442	
8,312.82	7,893.46	7,882.46	7,882.46	43.94	313.30	136.01	-62.30	24.93	2,157.36	1,822.46	334.90	6.442	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5021.00ft (Original Well Elev) Coordinates are relative to: P\_DRY CREEK 4-35  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.41°



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 4-35
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 6-35 PAD	<b>MD Reference:</b>	WELL @ 5021.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 4-35	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_DRY CREEK 4-35	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-28-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5021.00ft (Original Well Elev) Coordinates are relative to: P\_DRY CREEK 4-35  
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