



# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_DRY CREEK 20-27 PAD**

**P\_DRY CREEK 23-27**

**P\_DRY CREEK 23-27**

**Plan: PLAN #1 10-29-09 RHS**

## **Standard Planning Report**

**29 October, 2009**



**P\_DRY CREEK 23-27**  
**COLORADO NORTHERN ZONE - 83**  
**SECTION 27 T1N R67W**  
**1036 FSL 1104 FEL**  
**LAT: 40° 1' 3.720 N**  
**LONG: 104° 52' 16.212 W**



Azimuths to True North  
Magnetic North: 9.07°  
Magnetic Field  
Strength: 53107.1snT  
Dip Angle: 66.79°  
Date: 10/29/2009  
Model: IGRF200510

**WELL DETAILS: P\_DRY CREEK 23-27**

+N/-S	+E/-W	Northing	Ground Level: Easting	5044.00 Latitude	Longitude	Slot
0.00	0.00	1249918.95	3176121.78	40° 1' 3.720 N	104° 52' 16.212 W	

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
3162.00	3243.44	PARKMAN TOP
4764.00	4950.72	SUSSEX TOP
7346.00	7592.47	NIO A TOP
7746.00	7992.47	CODELL TOP

**SECTION DETAILS**

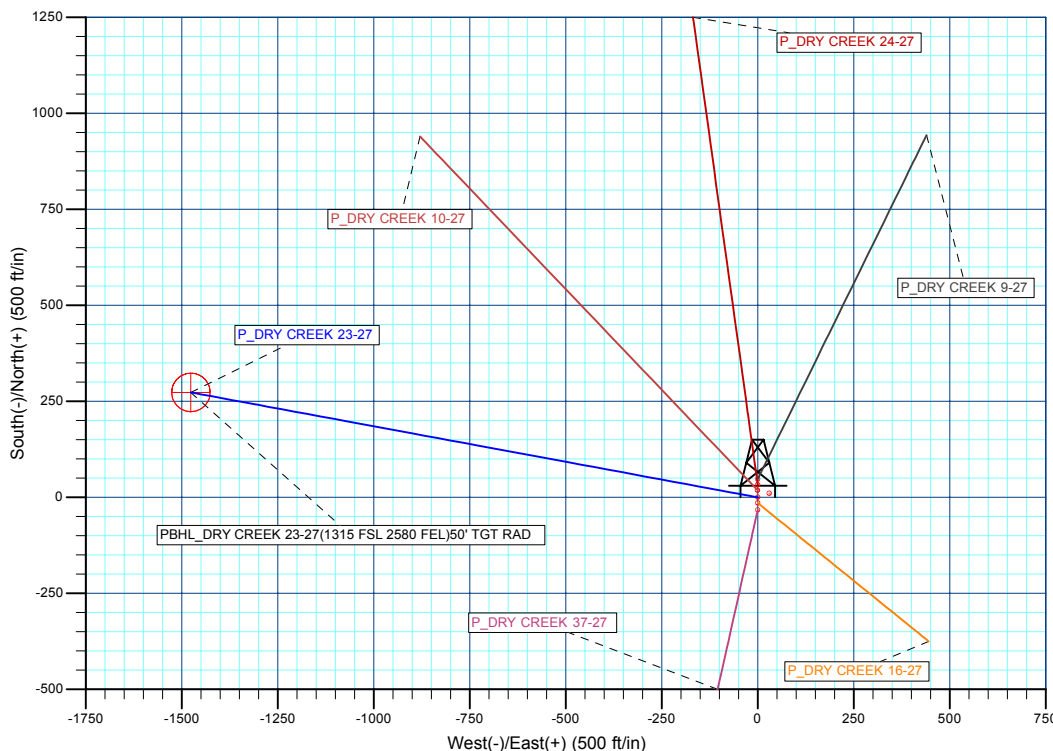
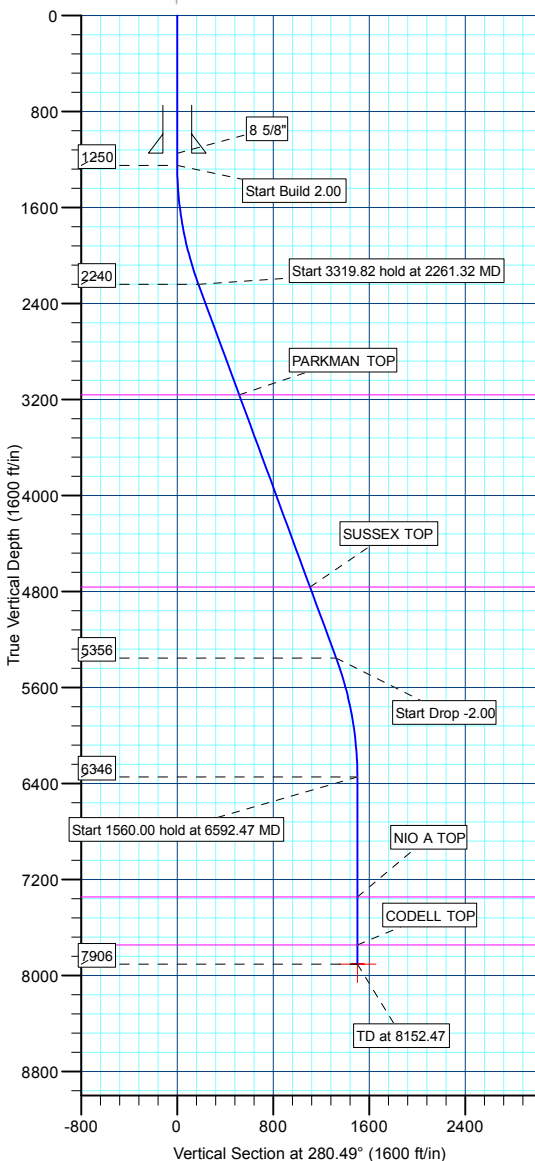
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00	0.00	
2261.32	20.23	280.49	2240.45	32.16	-173.71	2.00	280.49	176.66	
5581.15	20.23	280.49	5355.55	241.10	-1302.30	0.00	0.00	1324.43	
6592.47	0.00	0.00	6346.00	273.26	-1476.01	2.00	180.00	1501.09	
8152.47	0.00	0.00	7906.00	273.26	-1476.01	0.00	0.00	1501.09	PBHL_DRY CREEK 23-27(1315 FSL 2580 FEL)50' TGT RAD

**CASING DETAILS**

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



KB ELEV: WELL @ 5059.00ft (Original Well Elev)  
GRD ELEV: 5044.00



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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7906.00	273.26	-1476.01	1250181.74	3174643.87	40° 1' 6.420 N	104° 52' 35.184 W	Circle (Radius: 50.00)

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 23-27	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 23-27		
<b>Design:</b>	PLAN #1 10-29-09 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 20-27 PAD, SECTION 27 T1N R67W			
<b>Site Position:</b>		<b>Northing:</b>	1,249,937.18 ft	<b>Latitude:</b> 40° 1' 3.900 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,176,121.65 ft	<b>Longitude:</b> 104° 52' 16.212 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 23-27			
<b>Well Position</b>	<b>+N/-S</b>	-18.22 ft	<b>Northing:</b>	1,249,918.95 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	3,176,121.78 ft
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft
			<b>Ground Level:</b>	5,044.00 ft

<b>Wellbore</b>	P_DRY CREEK 23-27				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	10/29/2009	9.07	66.79	53,107

<b>Design</b>	PLAN #1 10-29-09 RHS			
<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	280.49

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,250.00	0.00	0.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,261.32	20.23	280.49	2,240.45	32.16	-173.71	2.00	2.00	0.00	280.49	
5,581.15	20.23	280.49	5,355.55	241.10	-1,302.30	0.00	0.00	0.00	0.00	
6,592.47	0.00	0.00	6,346.00	273.26	-1,476.01	2.00	-2.00	0.00	180.00	
8,152.47	0.00	0.00	7,906.00	273.26	-1,476.01	0.00	0.00	0.00	0.00	PBHL_DRY CREEK

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 23-27	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 23-27		
<b>Design:</b>	PLAN #1 10-29-09 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>									
1,250.00	0.00	0.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	1.00	280.49	1,300.00	0.08	-0.43	0.44	2.00	2.00	0.00
1,400.00	3.00	280.49	1,399.93	0.71	-3.86	3.93	2.00	2.00	0.00
1,500.00	5.00	280.49	1,499.68	1.98	-10.72	10.90	2.00	2.00	0.00
1,600.00	7.00	280.49	1,599.13	3.89	-21.00	21.35	2.00	2.00	0.00
1,700.00	9.00	280.49	1,698.15	6.42	-34.68	35.27	2.00	2.00	0.00
1,800.00	11.00	280.49	1,796.63	9.58	-51.75	52.63	2.00	2.00	0.00
1,900.00	13.00	280.49	1,894.44	13.37	-72.20	73.42	2.00	2.00	0.00
2,000.00	15.00	280.49	1,991.46	17.77	-95.98	97.62	2.00	2.00	0.00
2,100.00	17.00	280.49	2,087.58	22.79	-123.09	125.18	2.00	2.00	0.00
2,200.00	19.00	280.49	2,182.68	28.41	-153.47	156.08	2.00	2.00	0.00
<b>Start 3319.82 hold at 2261.32 MD</b>									
2,261.32	20.23	280.49	2,240.45	32.16	-173.71	176.66	2.00	2.00	0.00
2,300.00	20.23	280.49	2,276.74	34.59	-186.86	190.03	0.00	0.00	0.00
2,400.00	20.23	280.49	2,370.57	40.89	-220.85	224.61	0.00	0.00	0.00
2,500.00	20.23	280.49	2,464.41	47.18	-254.85	259.18	0.00	0.00	0.00
2,600.00	20.23	280.49	2,558.24	53.47	-288.84	293.75	0.00	0.00	0.00
2,700.00	20.23	280.49	2,652.07	59.77	-322.84	328.33	0.00	0.00	0.00
2,800.00	20.23	280.49	2,745.91	66.06	-356.84	362.90	0.00	0.00	0.00
2,900.00	20.23	280.49	2,839.74	72.36	-390.83	397.47	0.00	0.00	0.00
3,000.00	20.23	280.49	2,933.57	78.65	-424.83	432.05	0.00	0.00	0.00
3,100.00	20.23	280.49	3,027.41	84.94	-458.82	466.62	0.00	0.00	0.00
3,200.00	20.23	280.49	3,121.24	91.24	-492.82	501.19	0.00	0.00	0.00
<b>PARKMAN TOP</b>									
3,243.44	20.23	280.49	3,162.00	93.97	-507.59	516.21	0.00	0.00	0.00
3,300.00	20.23	280.49	3,215.07	97.53	-526.81	535.77	0.00	0.00	0.00
3,400.00	20.23	280.49	3,308.91	103.82	-560.81	570.34	0.00	0.00	0.00
3,500.00	20.23	280.49	3,402.74	110.12	-594.80	604.91	0.00	0.00	0.00
3,600.00	20.23	280.49	3,496.57	116.41	-628.80	639.49	0.00	0.00	0.00
3,700.00	20.23	280.49	3,590.41	122.71	-662.80	674.06	0.00	0.00	0.00
3,800.00	20.23	280.49	3,684.24	129.00	-696.79	708.63	0.00	0.00	0.00
3,900.00	20.23	280.49	3,778.07	135.29	-730.79	743.21	0.00	0.00	0.00
4,000.00	20.23	280.49	3,871.91	141.59	-764.78	777.78	0.00	0.00	0.00
4,100.00	20.23	280.49	3,965.74	147.88	-798.78	812.35	0.00	0.00	0.00
4,200.00	20.23	280.49	4,059.57	154.17	-832.77	846.92	0.00	0.00	0.00
4,300.00	20.23	280.49	4,153.41	160.47	-866.77	881.50	0.00	0.00	0.00
4,400.00	20.23	280.49	4,247.24	166.76	-900.76	916.07	0.00	0.00	0.00
4,500.00	20.23	280.49	4,341.07	173.05	-934.76	950.64	0.00	0.00	0.00
4,600.00	20.23	280.49	4,434.91	179.35	-968.76	985.22	0.00	0.00	0.00
4,700.00	20.23	280.49	4,528.74	185.64	-1,002.75	1,019.79	0.00	0.00	0.00
4,800.00	20.23	280.49	4,622.57	191.94	-1,036.75	1,054.36	0.00	0.00	0.00
4,900.00	20.23	280.49	4,716.41	198.23	-1,070.74	1,088.94	0.00	0.00	0.00
<b>SUSSEX TOP</b>									
4,950.72	20.23	280.49	4,764.00	201.42	-1,087.99	1,106.47	0.00	0.00	0.00
5,000.00	20.23	280.49	4,810.24	204.52	-1,104.74	1,123.51	0.00	0.00	0.00
5,100.00	20.23	280.49	4,904.07	210.82	-1,138.73	1,158.08	0.00	0.00	0.00
5,200.00	20.23	280.49	4,997.91	217.11	-1,172.73	1,192.66	0.00	0.00	0.00
5,300.00	20.23	280.49	5,091.74	223.40	-1,206.72	1,227.23	0.00	0.00	0.00
5,400.00	20.23	280.49	5,185.57	229.70	-1,240.72	1,261.80	0.00	0.00	0.00
5,500.00	20.23	280.49	5,279.41	235.99	-1,274.72	1,296.38	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
5,581.15	20.23	280.49	5,355.55	241.10	-1,302.30	1,324.43	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 23-27
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 23-27	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 23-27		
<b>Design:</b>	PLAN #1 10-29-09 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)
5,600.00	19.85	280.49	5,373.26	242.28	-1,308.65	1,330.89	2.00	-2.00	0.00
5,700.00	17.85	280.49	5,467.89	248.16	-1,340.42	1,363.20	2.00	-2.00	0.00
5,800.00	15.85	280.49	5,563.60	253.43	-1,368.92	1,392.18	2.00	-2.00	0.00
5,900.00	13.85	280.49	5,660.25	258.10	-1,394.12	1,417.81	2.00	-2.00	0.00
6,000.00	11.85	280.49	5,757.74	262.15	-1,415.99	1,440.05	2.00	-2.00	0.00
6,100.00	9.85	280.49	5,855.95	265.57	-1,434.49	1,458.87	2.00	-2.00	0.00
6,200.00	7.85	280.49	5,954.75	268.37	-1,449.62	1,474.25	2.00	-2.00	0.00
6,300.00	5.85	280.49	6,054.03	270.54	-1,461.35	1,486.18	2.00	-2.00	0.00
6,400.00	3.85	280.49	6,153.67	272.08	-1,469.66	1,494.63	2.00	-2.00	0.00
6,500.00	1.85	280.49	6,253.54	272.99	-1,474.55	1,499.60	2.00	-2.00	0.00
Start 1560.00 hold at 6592.47 MD									
6,592.47	0.00	0.00	6,346.00	273.26	-1,476.01	1,501.09	2.00	-2.00	0.00
6,600.00	0.00	0.00	6,353.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
6,700.00	0.00	0.00	6,453.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
6,800.00	0.00	0.00	6,553.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
6,900.00	0.00	0.00	6,653.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,000.00	0.00	0.00	6,753.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,100.00	0.00	0.00	6,853.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,200.00	0.00	0.00	6,953.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,300.00	0.00	0.00	7,053.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,400.00	0.00	0.00	7,153.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,500.00	0.00	0.00	7,253.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
NIO A TOP									
7,592.47	0.00	0.00	7,346.00	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,600.00	0.00	0.00	7,353.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,700.00	0.00	0.00	7,453.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,800.00	0.00	0.00	7,553.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
7,900.00	0.00	0.00	7,653.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
CODELL TOP									
7,992.47	0.00	0.00	7,746.00	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
8,000.00	0.00	0.00	7,753.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
8,100.00	0.00	0.00	7,853.53	273.26	-1,476.01	1,501.09	0.00	0.00	0.00
TD at 8152.47 - PBHL_DRY CREEK 23-27(1315 FSL 2580 FEL)50' TGT RAD									
8,152.47	0.00	0.00	7,906.00	273.26	-1,476.01	1,501.09	0.00	0.00	0.00

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
PBHL_DRY CREEK 2	- plan hits target center	0.00	0.00	7,906.00	273.26	-1,476.01	1,250,181.74	3,174,643.87	40° 1' 6.420 N 104° 52' 35.184 W
	- Circle (radius 50.00)								

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

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_DRY CREEK 23-27	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_DRY CREEK 23-27		
<b>Design:</b>	PLAN #1 10-29-09 RHS		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,243.44	3,162.00	PARKMAN TOP				
4,950.72	4,764.00	SUSSEX TOP				
7,592.47	7,346.00	NIO A TOP				
7,992.47	7,746.00	CODELL TOP				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,250.00	1,250.00	0.00	0.00	Start Build 2.00	
2,261.32	2,240.45	32.16	-173.71	Start 3319.82 hold at 2261.32 MD	
5,581.15	5,355.55	241.10	-1,302.30	Start Drop -2.00	
6,592.47	6,346.00	273.26	-1,476.01	Start 1560.00 hold at 6592.47 MD	
8,152.47	7,906.00	273.26	-1,476.01	TD at 8152.47	



# **US ROCKIES REGION PLANNING**

**COLORADO NOTHERN ZONE - 83  
WELD\_DRY CREEK 20-27 PAD  
P\_DRY CREEK 23-27**

**P\_DRY CREEK 23-27  
PLAN #1 10-29-09 RHS**

## **Anticollision Report**

**29 October, 2009**



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #1 10-29-09 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>	10/29/2009		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	8,152.47	PLAN #1 10-29-09 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 20-27 PAD						
P_DRY CREEK 10-27 - P_DRY CREEK 10-27 - PLAN #	1,250.00	1,250.00	18.22	12.86	3.399	CC, ES
P_DRY CREEK 10-27 - P_DRY CREEK 10-27 - PLAN #	1,300.00	1,299.77	18.46	12.88	3.309	SF
P_DRY CREEK 16-27 - P_DRY CREEK 16-27 - PLAN #	1,250.00	1,250.00	14.57	9.21	2.718	CC, ES
P_DRY CREEK 16-27 - P_DRY CREEK 16-27 - PLAN #	1,300.00	1,299.83	14.94	9.38	2.684	SF
P_DRY CREEK 24-27 - P_DRY CREEK 24-27 - PLAN #	1,250.00	1,250.00	32.78	27.42	6.116	CC, ES
P_DRY CREEK 24-27 - P_DRY CREEK 24-27 - PLAN #	1,300.00	1,299.43	33.13	27.56	5.940	SF
P_DRY CREEK 37-27 - P_DRY CREEK 37-27 - PLAN #	1,250.00	1,250.00	32.79	27.43	6.117	CC, ES
P_DRY CREEK 37-27 - P_DRY CREEK 37-27 - PLAN #	1,300.00	1,299.44	33.29	27.73	5.983	SF
P_DRY CREEK 9-27 - P_DRY CREEK 9-27 - PLAN #1 1	1,250.00	1,250.00	47.35	41.99	8.833	CC, ES
P_DRY CREEK 9-27 - P_DRY CREEK 9-27 - PLAN #1 1	1,400.00	1,397.55	50.41	44.41	8.399	SF
UPRR 42 PAN AM K #2 EXISTING - UPRR 42 PAN AM	1,250.00	1,233.00	31.92	-18.08	0.638	Level 1, CC
UPRR 42 PAN AM K #2 EXISTING - UPRR 42 PAN AM	1,300.00	1,283.00	32.30	-19.80	0.620	Level 1, SF
UPRR 42 PAN AM K #2 EXISTING - UPRR 42 PAN AM	1,400.00	1,382.93	35.40	-20.85	0.629	Level 1, ES

Offset Design		WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 10-27 - P_DRY CREEK 10-27 - PLAN #1 10-29-09 F										Offset Site Error:		0.00 ft			
Survey Program: 0-MWD														Offset Well Error:		0.00 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning				
0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.22	0.00	18.22								
100.00	100.00	100.00	100.00	0.10	0.10	0.00	18.22	0.00	18.22	18.03	0.19	95.379					
200.00	200.00	200.00	200.00	0.32	0.32	0.00	18.22	0.00	18.22	17.58	0.64	28.446					
300.00	300.00	300.00	300.00	0.55	0.55	0.00	18.22	0.00	18.22	17.13	1.09	16.716					
400.00	400.00	400.00	400.00	0.77	0.77	0.00	18.22	0.00	18.22	16.68	1.54	11.835					
500.00	500.00	500.00	500.00	0.99	0.99	0.00	18.22	0.00	18.22	16.23	1.99	9.161					
600.00	600.00	600.00	600.00	1.22	1.22	0.00	18.22	0.00	18.22	15.78	2.44	7.472					
700.00	700.00	700.00	700.00	1.44	1.44	0.00	18.22	0.00	18.22	15.33	2.89	6.309					
800.00	800.00	800.00	800.00	1.67	1.67	0.00	18.22	0.00	18.22	14.88	3.34	5.459					
900.00	900.00	900.00	900.00	1.89	1.89	0.00	18.22	0.00	18.22	14.43	3.79	4.811					
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	0.00	18.22	0.00	18.22	13.99	4.24	4.301					
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	0.00	18.22	0.00	18.22	13.54	4.69	3.888					
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	0.00	18.22	0.00	18.22	13.09	5.14	3.548					
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	0.00	18.22	0.00	18.22	12.86	5.36	3.399	CC, ES				
1,300.00	1,300.00	1,299.77	1,299.77	2.79	2.79	79.91	18.53	-0.30	18.46	12.88	5.58	3.309	SF				

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 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 10-27 - P_DRY CREEK 10-27 - PLAN #1 10-29-09 F												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)	Semi Major Axis 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	1,399.93	1,399.27	1,399.21	2.99	3.01	82.73	21.04	-2.68	20.37	14.37	6.00	3.394	
1,500.00	1,499.68	1,498.68	1,498.37	3.21	3.23	87.00	26.03	-7.45	24.30	17.86	6.44	3.774	
1,600.00	1,599.13	1,597.91	1,597.06	3.44	3.46	91.28	33.49	-14.57	30.36	23.46	6.90	4.401	
1,700.00	1,698.15	1,696.91	1,695.10	3.69	3.72	94.83	43.39	-24.02	38.60	31.20	7.40	5.219	
1,800.00	1,796.63	1,795.62	1,792.32	3.97	3.99	97.53	55.70	-35.76	49.00	41.06	7.94	6.168	
1,900.00	1,894.44	1,893.96	1,888.55	4.30	4.30	99.51	70.36	-49.75	61.54	52.98	8.56	7.190	
2,000.00	1,991.46	1,991.89	1,983.62	4.67	4.66	100.93	87.33	-65.95	76.18	66.92	9.26	8.228	
2,100.00	2,087.58	2,089.34	2,077.39	5.10	5.06	101.95	106.54	-84.28	92.87	82.82	10.05	9.238	
2,200.00	2,182.68	2,186.27	2,169.69	5.60	5.52	102.67	127.93	-104.68	111.59	100.64	10.96	10.185	
2,261.32	2,240.45	2,245.44	2,225.53	5.94	5.84	103.00	142.09	-118.19	124.05	112.48	11.57	10.721	
2,300.00	2,276.74	2,282.65	2,260.43	6.16	6.04	103.22	151.42	-127.10	132.23	120.26	11.98	11.041	
2,400.00	2,370.57	2,378.52	2,349.56	6.76	6.62	102.89	176.97	-151.47	154.18	141.09	13.10	11.774	
2,500.00	2,464.41	2,473.73	2,436.85	7.38	7.26	101.65	204.46	-177.71	177.33	163.04	14.29	12.411	
2,600.00	2,558.24	2,570.16	2,524.36	8.02	7.96	100.09	233.77	-205.68	201.42	185.88	15.54	12.958	
2,700.00	2,652.07	2,667.07	2,612.27	8.68	8.69	98.83	263.28	-233.84	225.66	208.83	16.83	13.407	
2,800.00	2,745.91	2,763.98	2,700.18	9.34	9.44	97.81	292.79	-261.99	249.98	231.84	18.14	13.780	
2,900.00	2,839.74	2,860.89	2,788.09	10.02	10.20	96.98	322.30	-290.15	274.37	254.90	19.47	14.095	
3,000.00	2,933.57	2,957.81	2,875.99	10.70	10.97	96.28	351.81	-318.31	298.79	277.99	20.80	14.362	
3,100.00	3,027.41	3,054.72	2,963.90	11.38	11.75	95.69	381.32	-346.47	323.26	301.10	22.15	14.592	
3,200.00	3,121.24	3,151.63	3,051.81	12.07	12.54	95.18	410.83	-374.63	347.75	324.24	23.51	14.790	
3,300.00	3,215.07	3,248.54	3,139.72	12.77	13.33	94.74	440.34	-402.79	372.26	347.38	24.88	14.963	
3,400.00	3,308.91	3,345.45	3,227.63	13.47	14.13	94.35	469.85	-430.95	396.79	370.54	26.25	15.115	
3,500.00	3,402.74	3,442.36	3,315.54	14.17	14.94	94.01	499.36	-459.10	421.34	393.71	27.63	15.250	
3,600.00	3,496.57	3,539.27	3,403.45	14.87	15.74	93.71	528.87	-487.26	445.90	416.89	29.01	15.370	
3,700.00	3,590.41	3,636.19	3,491.36	15.58	16.55	93.43	558.38	-515.42	470.47	440.07	30.40	15.477	
3,800.00	3,684.24	3,733.10	3,579.27	16.29	17.36	93.19	587.89	-543.58	495.05	463.26	31.79	15.573	
3,900.00	3,778.07	3,830.01	3,667.18	17.00	18.18	92.97	617.40	-571.74	519.64	486.45	33.18	15.660	
4,000.00	3,871.91	3,926.92	3,755.09	17.71	19.00	92.76	646.91	-599.90	544.23	509.65	34.58	15.739	
4,100.00	3,965.74	4,023.83	3,843.00	18.42	19.81	92.58	676.42	-628.06	568.83	532.85	35.98	15.811	
4,200.00	4,059.57	4,120.74	3,930.91	19.13	20.63	92.41	705.93	-656.21	593.43	556.06	37.38	15.877	
4,300.00	4,153.41	4,217.65	4,018.82	19.85	21.45	92.25	735.44	-684.37	618.04	579.26	38.78	15.937	
4,400.00	4,247.24	4,322.19	4,113.95	20.56	22.25	92.16	766.78	-714.27	642.31	602.15	40.17	15.991	
4,500.00	4,341.07	4,432.65	4,216.02	21.28	22.94	92.35	797.33	-743.43	664.81	623.31	41.50	16.021	
4,600.00	4,434.91	4,543.83	4,320.31	22.00	23.58	92.85	825.18	-770.00	685.37	642.55	42.82	16.005	
4,700.00	4,528.74	4,655.38	4,426.38	22.71	24.16	93.63	850.16	-793.84	704.07	659.93	44.14	15.951	
4,800.00	4,622.57	4,766.98	4,533.75	23.43	24.69	94.66	872.15	-814.82	720.99	675.56	45.44	15.868	
4,900.00	4,716.41	4,878.29	4,641.95	24.15	25.15	95.94	891.05	-832.85	736.30	689.60	46.70	15.767	
5,000.00	4,810.24	4,988.97	4,750.45	24.87	25.55	97.45	906.81	-847.89	750.16	702.25	47.91	15.657	
5,100.00	4,904.07	5,098.70	4,858.78	25.59	25.88	99.16	919.43	-859.93	762.83	713.76	49.07	15.547	
5,200.00	4,997.91	5,207.18	4,966.45	26.31	26.15	101.07	928.94	-869.01	774.56	724.42	50.14	15.448	
5,300.00	5,091.74	5,314.12	5,073.01	27.03	26.36	103.16	935.43	-875.21	785.65	734.53	51.12	15.368	
5,400.00	5,185.57	5,419.27	5,178.04	27.75	26.51	105.40	939.01	-878.61	796.43	744.43	52.00	15.317	
5,500.00	5,279.41	5,520.65	5,279.41	28.47	26.61	107.74	939.85	-879.42	807.27	754.51	52.76	15.302	
5,581.15	5,355.55	5,596.79	5,355.55	29.06	26.68	109.52	939.85	-879.42	816.75	763.45	53.31	15.321	
5,600.00	5,373.26	5,614.50	5,373.26	29.18	26.70	109.96	939.85	-879.42	819.06	765.63	53.43	15.330	
5,700.00	5,467.89	5,709.13	5,467.89	29.71	26.78	112.19	939.85	-879.42	831.24	777.30	53.94	15.410	
5,800.00	5,563.60	5,804.84	5,563.60	30.19	26.88	114.16	939.85	-879.42	843.08	788.70	54.38	15.504	
5,900.00	5,660.25	5,901.49	5,660.25	30.62	26.97	115.89	939.85	-879.42	854.23	799.48	54.75	15.602	
6,000.00	5,757.74	5,998.98	5,757.74	31.00	27.07	117.37	939.85	-879.42	864.40	809.33	55.07	15.695	
6,100.00	5,855.95	6,097.19	5,855.95	31.33	27.16	118.61	939.85	-879.42	873.36	818.01	55.36	15.777	
6,200.00	5,954.75	6,195.99	5,954.75	31.62	27.27	119.62	939.85	-879.42	880.92	825.31	55.61	15.842	
6,300.00	6,054.03	6,295.28	6,054.03	31.85	27.37	120.39	939.85	-879.42	886.91	831.08	55.83	15.885	

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 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 10-27 - P_DRY CREEK 10-27 - PLAN #1 10-29-09 F												<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
6,400.00	6,153.67	6,394.91	6,153.67	32.04	27.47	120.93	939.85	-879.42	891.23	835.19	56.04	15.904	
6,500.00	6,253.54	6,494.78	6,253.54	32.18	27.58	121.24	939.85	-879.42	893.80	837.57	56.23	15.895	
6,592.47	6,346.00	6,587.24	6,346.00	32.27	27.68	41.83	939.85	-879.42	894.58	838.18	56.40	15.861	
6,600.00	6,353.53	6,594.77	6,353.53	32.28	27.69	41.83	939.85	-879.42	894.58	838.16	56.42	15.856	
6,700.00	6,453.53	6,694.77	6,453.53	32.37	27.79	41.83	939.85	-879.42	894.58	837.95	56.63	15.797	
6,800.00	6,553.53	6,794.77	6,553.53	32.47	27.90	41.83	939.85	-879.42	894.58	837.73	56.85	15.737	
6,900.00	6,653.53	6,894.77	6,653.53	32.57	28.02	41.83	939.85	-879.42	894.58	837.51	57.06	15.677	
7,000.00	6,753.53	6,994.77	6,753.53	32.67	28.13	41.83	939.85	-879.42	894.58	837.29	57.28	15.616	
7,100.00	6,853.53	7,094.77	6,853.53	32.77	28.24	41.83	939.85	-879.42	894.58	837.07	57.51	15.556	
7,200.00	6,953.53	7,194.77	6,953.53	32.87	28.36	41.83	939.85	-879.42	894.58	836.84	57.73	15.495	
7,300.00	7,053.53	7,294.77	7,053.53	32.97	28.48	41.83	939.85	-879.42	894.58	836.61	57.96	15.433	
7,400.00	7,153.53	7,394.77	7,153.53	33.07	28.59	41.83	939.85	-879.42	894.58	836.38	58.20	15.372	
7,500.00	7,253.53	7,494.77	7,253.53	33.18	28.71	41.83	939.85	-879.42	894.58	836.15	58.43	15.311	
7,600.00	7,353.53	7,594.77	7,353.53	33.28	28.83	41.83	939.85	-879.42	894.58	835.91	58.67	15.249	
7,700.00	7,453.53	7,694.77	7,453.53	33.39	28.96	41.83	939.85	-879.42	894.58	835.67	58.90	15.187	
7,800.00	7,553.53	7,794.77	7,553.53	33.50	29.08	41.83	939.85	-879.42	894.58	835.43	59.15	15.125	
7,900.00	7,653.53	7,894.77	7,653.53	33.61	29.20	41.83	939.85	-879.42	894.58	835.19	59.39	15.063	
8,000.00	7,753.53	7,994.77	7,753.53	33.72	29.33	41.83	939.85	-879.42	894.58	834.94	59.64	15.001	
8,100.00	7,853.53	8,094.77	7,853.53	33.83	29.46	41.83	939.85	-879.42	894.58	834.69	59.88	14.938	
8,152.47	7,906.00	8,147.24	7,906.00	33.89	29.52	41.83	939.85	-879.42	894.58	834.56	60.02	14.906	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 16-27 - P_DRY CREEK 16-27 - PLAN #1 10-29-09 F												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)	Semi Major Axis 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	180.00	-14.57	0.00	14.57				
100.00	100.00	100.00	100.00	0.10	0.10	180.00	-14.57	0.00	14.57	14.38	0.19	76.268	
200.00	200.00	200.00	200.00	0.32	0.32	180.00	-14.57	0.00	14.57	13.93	0.64	22.746	
300.00	300.00	300.00	300.00	0.55	0.55	180.00	-14.57	0.00	14.57	13.48	1.09	13.366	
400.00	400.00	400.00	400.00	0.77	0.77	180.00	-14.57	0.00	14.57	13.03	1.54	9.464	
500.00	500.00	500.00	500.00	0.99	0.99	180.00	-14.57	0.00	14.57	12.58	1.99	7.325	
600.00	600.00	600.00	600.00	1.22	1.22	180.00	-14.57	0.00	14.57	12.13	2.44	5.975	
700.00	700.00	700.00	700.00	1.44	1.44	180.00	-14.57	0.00	14.57	11.68	2.89	5.045	
800.00	800.00	800.00	800.00	1.67	1.67	180.00	-14.57	0.00	14.57	11.23	3.34	4.365	
900.00	900.00	900.00	900.00	1.89	1.89	180.00	-14.57	0.00	14.57	10.78	3.79	3.847	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	180.00	-14.57	0.00	14.57	10.33	4.24	3.439	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	180.00	-14.57	0.00	14.57	9.88	4.69	3.109	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	180.00	-14.57	0.00	14.57	9.44	5.14	2.837	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	180.00	-14.57	0.00	14.57	9.21	5.36	2.718 CC, ES	
1,300.00	1,300.00	1,299.83	1,299.82	2.79	2.78	-103.41	-14.84	0.34	14.94	9.38	5.57	2.684 SF	
1,400.00	1,399.93	1,399.14	1,399.07	2.99	2.96	-121.54	-17.01	3.02	19.03	13.08	5.95	3.198	
1,500.00	1,499.68	1,497.44	1,497.13	3.21	3.15	-139.36	-21.29	8.30	30.17	23.83	6.33	4.762	
1,600.00	1,599.13	1,594.09	1,593.27	3.44	3.36	-149.54	-27.56	16.04	48.94	42.23	6.71	7.293	
1,700.00	1,698.15	1,688.50	1,686.79	3.69	3.58	-154.91	-35.65	26.03	74.73	67.65	7.08	10.552	
1,800.00	1,796.63	1,780.12	1,777.10	3.97	3.82	-157.89	-45.35	38.01	107.03	99.59	7.45	14.369	
1,900.00	1,894.44	1,872.34	1,867.68	4.30	4.09	-159.79	-56.24	51.46	144.40	136.58	7.82	18.463	
2,000.00	1,991.46	1,963.64	1,957.36	4.67	4.38	-161.18	-67.03	64.79	184.94	176.74	8.19	22.571	
2,100.00	2,087.58	2,053.50	2,045.62	5.10	4.68	-162.25	-77.66	77.91	228.58	220.01	8.57	26.684	
2,200.00	2,182.68	2,141.81	2,132.35	5.60	4.99	-163.10	-88.10	90.80	275.27	266.33	8.94	30.795	
2,261.32	2,240.45	2,195.15	2,184.74	5.94	5.17	-163.55	-94.40	98.59	305.40	296.23	9.17	33.316	
2,300.00	2,276.74	2,228.58	2,217.58	6.16	5.30	-163.92	-98.36	103.47	324.75	315.40	9.35	34.741	
2,400.00	2,370.57	2,315.04	2,302.50	6.76	5.61	-164.69	-108.58	116.09	374.84	365.02	9.82	38.160	
2,500.00	2,464.41	2,401.49	2,387.41	7.38	5.93	-165.29	-118.80	128.71	424.97	414.66	10.31	41.225	
2,600.00	2,558.24	2,487.95	2,472.33	8.02	6.26	-165.76	-129.02	141.33	475.12	464.32	10.80	43.978	
2,700.00	2,652.07	2,574.40	2,557.25	8.68	6.59	-166.13	-139.24	153.96	525.29	513.99	11.31	46.461	
2,800.00	2,745.91	2,660.86	2,642.16	9.34	6.93	-166.45	-149.46	166.58	575.48	563.66	11.82	48.706	
2,900.00	2,839.74	2,747.31	2,727.08	10.02	7.27	-166.71	-159.68	179.20	625.68	613.35	12.33	50.744	
3,000.00	2,933.57	2,833.77	2,811.99	10.70	7.61	-166.93	-169.90	191.82	675.88	663.03	12.85	52.599	
3,100.00	3,027.41	2,920.22	2,896.91	11.38	7.95	-167.13	-180.13	204.45	726.10	712.72	13.37	54.293	
3,200.00	3,121.24	3,006.68	2,981.83	12.07	8.30	-167.29	-190.35	217.07	776.31	762.41	13.90	55.844	
3,300.00	3,215.07	3,093.14	3,066.74	12.77	8.65	-167.44	-200.57	229.69	826.54	812.10	14.43	57.268	
3,400.00	3,308.91	3,179.59	3,151.66	13.47	9.00	-167.57	-210.79	242.31	876.76	861.80	14.97	58.580	
3,500.00	3,402.74	3,266.05	3,236.57	14.17	9.35	-167.69	-221.01	254.93	926.99	911.49	15.50	59.790	
3,600.00	3,496.57	3,352.50	3,321.49	14.87	9.71	-167.79	-231.23	267.56	977.22	961.18	16.04	60.911	
3,700.00	3,590.41	3,438.96	3,406.41	15.58	10.06	-167.89	-241.45	280.18	1,027.46	1,010.87	16.59	61.951	
3,800.00	3,684.24	3,525.41	3,491.32	16.29	10.42	-167.97	-251.67	292.80	1,077.69	1,060.57	17.13	62.918	
3,900.00	3,778.07	3,611.87	3,576.24	17.00	10.77	-168.05	-261.89	305.42	1,127.93	1,110.26	17.67	63.819	
4,000.00	3,871.91	3,698.32	3,661.15	17.71	11.13	-168.12	-272.12	318.05	1,178.17	1,159.95	18.22	64.661	
4,100.00	3,965.74	3,784.78	3,746.07	18.42	11.49	-168.19	-282.34	330.67	1,228.41	1,209.64	18.77	65.448	
4,200.00	4,059.57	3,871.23	3,830.98	19.13	11.85	-168.25	-292.56	343.29	1,278.65	1,259.33	19.32	66.186	
4,300.00	4,153.41	3,957.69	3,915.90	19.85	12.21	-168.30	-302.78	355.91	1,328.89	1,309.02	19.87	66.879	
4,400.00	4,247.24	4,044.14	4,000.82	20.56	12.57	-168.36	-313.00	368.54	1,379.14	1,358.71	20.42	67.532	
4,500.00	4,341.07	4,130.60	4,085.73	21.28	12.93	-168.40	-323.22	381.16	1,429.38	1,408.41	20.98	68.146	
4,600.00	4,434.91	4,217.05	4,170.65	22.00	13.29	-168.45	-333.44	393.78	1,479.63	1,458.10	21.53	68.726	
4,700.00	4,528.74	4,308.50	4,260.47	22.71	13.66	-168.49	-344.24	407.12	1,529.86	1,507.77	22.09	69.248	
4,800.00	4,622.57	4,490.24	4,440.03	23.43	14.18	-168.65	-361.77	428.76	1,577.21	1,554.42	22.79	69.202	
4,900.00	4,716.41	4,683.36	4,632.36	24.15	14.60	-168.95	-372.49	442.01	1,619.01	1,595.53	23.48	68.959	

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 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 16-27 - P_DRY CREEK 16-27 - PLAN #1 10-29-09 F												Offset Well Error:	0.00 ft
Survey Program: 0-MWD													
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	4,810.24	4,861.32	4,810.24	24.87	14.88	-169.34	-375.19	445.34	1,654.93	1,630.82	24.11	68.646	
5,100.00	4,904.07	4,955.15	4,904.07	25.59	15.01	-169.56	-375.19	445.34	1,688.99	1,664.38	24.60	68.646	
5,200.00	4,997.91	5,048.98	4,997.91	26.31	15.15	-169.76	-375.19	445.34	1,723.07	1,697.97	25.10	68.649	
5,300.00	5,091.74	5,142.81	5,091.74	27.03	15.28	-169.96	-375.19	445.34	1,757.16	1,731.57	25.60	68.650	
5,400.00	5,185.57	5,236.65	5,185.57	27.75	15.42	-170.16	-375.19	445.34	1,791.28	1,765.19	26.09	68.650	
5,500.00	5,279.41	5,330.48	5,279.41	28.47	15.56	-170.34	-375.19	445.34	1,825.41	1,798.82	26.59	68.649	
5,581.15	5,355.55	5,406.63	5,355.55	29.06	15.67	-170.49	-375.19	445.34	1,853.12	1,826.13	26.99	68.648	
5,600.00	5,373.26	5,424.34	5,373.26	29.18	15.70	-170.54	-375.19	445.34	1,859.50	1,832.38	27.12	68.560	
5,700.00	5,467.89	5,518.97	5,467.89	29.71	15.84	-170.81	-375.19	445.34	1,891.43	1,863.67	27.75	68.151	
5,800.00	5,563.60	5,614.67	5,563.60	30.19	15.99	-171.04	-375.19	445.34	1,920.08	1,891.73	28.35	67.731	
5,900.00	5,660.25	5,711.33	5,660.25	30.62	16.14	-171.24	-375.19	445.34	1,945.42	1,916.51	28.91	67.303	
6,000.00	5,757.74	5,808.82	5,757.74	31.00	16.29	-171.41	-375.19	445.34	1,967.41	1,937.99	29.42	66.868	
6,100.00	5,855.95	5,907.02	5,855.95	31.33	16.45	-171.54	-375.19	445.34	1,986.04	1,956.14	29.90	66.428	
6,200.00	5,954.75	6,005.83	5,954.75	31.62	16.60	-171.65	-375.19	445.34	2,001.26	1,970.93	30.33	65.985	
6,300.00	6,054.03	6,105.11	6,054.03	31.85	16.76	-171.74	-375.19	445.34	2,013.06	1,982.34	30.72	65.537	
6,400.00	6,153.67	6,204.75	6,153.67	32.04	16.93	-171.79	-375.19	445.34	2,021.43	1,990.37	31.06	65.087	
6,500.00	6,253.54	6,304.62	6,253.54	32.18	17.09	-171.83	-375.19	445.34	2,026.35	1,994.99	31.35	64.632	
6,592.47	6,346.00	6,397.08	6,346.00	32.27	17.24	108.65	-375.19	445.34	2,027.82	1,996.24	31.59	64.202	
6,600.00	6,353.53	6,404.60	6,353.53	32.28	17.26	108.65	-375.19	445.34	2,027.82	1,996.21	31.61	64.148	
6,700.00	6,453.53	6,504.60	6,453.53	32.37	17.42	108.65	-375.19	445.34	2,027.82	1,995.85	31.97	63.430	
6,800.00	6,553.53	6,604.60	6,553.53	32.47	17.59	108.65	-375.19	445.34	2,027.82	1,995.49	32.33	62.724	
6,900.00	6,653.53	6,704.60	6,653.53	32.57	17.76	108.65	-375.19	445.34	2,027.82	1,995.13	32.69	62.030	
7,000.00	6,753.53	6,804.60	6,753.53	32.67	17.93	108.65	-375.19	445.34	2,027.82	1,994.77	33.06	61.347	
7,100.00	6,853.53	6,904.60	6,853.53	32.77	18.10	108.65	-375.19	445.34	2,027.82	1,994.40	33.42	60.675	
7,200.00	6,953.53	7,004.60	6,953.53	32.87	18.27	108.65	-375.19	445.34	2,027.82	1,994.03	33.79	60.014	
7,300.00	7,053.53	7,104.60	7,053.53	32.97	18.45	108.65	-375.19	445.34	2,027.82	1,993.66	34.16	59.364	
7,400.00	7,153.53	7,204.60	7,153.53	33.07	18.62	108.65	-375.19	445.34	2,027.82	1,993.29	34.53	58.725	
7,500.00	7,253.53	7,304.60	7,253.53	33.18	18.80	108.65	-375.19	445.34	2,027.82	1,992.92	34.90	58.097	
7,600.00	7,353.53	7,404.60	7,353.53	33.28	18.98	108.65	-375.19	445.34	2,027.82	1,992.54	35.28	57.479	
7,700.00	7,453.53	7,504.60	7,453.53	33.39	19.15	108.65	-375.19	445.34	2,027.82	1,992.17	35.66	56.871	
7,800.00	7,553.53	7,604.60	7,553.53	33.50	19.33	108.65	-375.19	445.34	2,027.82	1,991.79	36.03	56.274	
7,900.00	7,653.53	7,704.60	7,653.53	33.61	19.51	108.65	-375.19	445.34	2,027.82	1,991.41	36.41	55.687	
8,000.00	7,753.53	7,804.60	7,753.53	33.72	19.69	108.65	-375.19	445.34	2,027.82	1,991.03	36.80	55.110	
8,100.00	7,853.53	7,904.60	7,853.53	33.83	19.88	108.65	-375.19	445.34	2,027.82	1,990.64	37.18	54.542	
8,152.47	7,906.00	7,957.08	7,906.00	33.89	19.97	108.65	-375.19	445.34	2,027.82	1,990.44	37.38	54.248	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.78	0.00	32.78				
100.00	100.00	100.00	100.00	0.10	0.10	0.00	32.78	0.00	32.78	32.59	0.19	171.602	
200.00	200.00	200.00	200.00	0.32	0.32	0.00	32.78	0.00	32.78	32.14	0.64	51.180	
300.00	300.00	300.00	300.00	0.55	0.55	0.00	32.78	0.00	32.78	31.69	1.09	30.075	
400.00	400.00	400.00	400.00	0.77	0.77	0.00	32.78	0.00	32.78	31.25	1.54	21.294	
500.00	500.00	500.00	500.00	0.99	0.99	0.00	32.78	0.00	32.78	30.80	1.99	16.482	
600.00	600.00	600.00	600.00	1.22	1.22	0.00	32.78	0.00	32.78	30.35	2.44	13.443	
700.00	700.00	700.00	700.00	1.44	1.44	0.00	32.78	0.00	32.78	29.90	2.89	11.351	
800.00	800.00	800.00	800.00	1.67	1.67	0.00	32.78	0.00	32.78	29.45	3.34	9.822	
900.00	900.00	900.00	900.00	1.89	1.89	0.00	32.78	0.00	32.78	29.00	3.79	8.656	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	0.00	32.78	0.00	32.78	28.55	4.24	7.738	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	0.00	32.78	0.00	32.78	28.10	4.69	6.996	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	0.00	32.78	0.00	32.78	27.65	5.14	6.383	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	0.00	32.78	0.00	32.78	27.42	5.36	6.116 CC, ES	
1,300.00	1,300.00	1,299.43	1,299.43	2.79	2.79	80.14	33.21	-0.06	33.13	27.56	5.58	5.940 SF	
1,400.00	1,399.93	1,398.18	1,398.12	2.99	3.01	84.68	36.58	-0.52	36.07	30.06	6.01	6.005	
1,500.00	1,499.68	1,496.57	1,496.26	3.21	3.23	91.74	43.29	-1.45	42.47	36.03	6.44	6.592	
1,600.00	1,599.13	1,594.35	1,593.52	3.44	3.46	98.90	53.26	-2.83	52.91	46.02	6.89	7.677	
1,700.00	1,698.15	1,691.31	1,689.57	3.69	3.70	104.82	66.39	-4.65	67.62	60.26	7.36	9.187	
1,800.00	1,796.63	1,787.22	1,784.08	3.97	3.97	109.24	82.54	-6.88	86.57	78.71	7.86	11.015	
1,900.00	1,894.44	1,881.89	1,876.78	4.30	4.25	112.41	101.54	-9.51	109.62	101.22	8.40	13.053	
2,000.00	1,991.46	1,975.12	1,967.40	4.67	4.58	114.64	123.21	-12.50	136.62	127.63	8.99	15.199	
2,100.00	2,087.58	2,066.75	2,055.73	5.10	4.93	116.19	147.34	-15.84	167.42	157.78	9.64	17.367	
2,200.00	2,182.68	2,156.62	2,141.56	5.60	5.33	117.26	173.71	-19.49	201.88	191.52	10.36	19.489	
2,261.32	2,240.45	2,210.80	2,192.89	5.94	5.59	117.72	190.90	-21.86	224.76	213.93	10.83	20.748	
2,300.00	2,276.74	2,244.66	2,224.79	6.16	5.76	118.19	202.12	-23.41	239.74	228.59	11.16	21.489	
2,400.00	2,370.57	2,333.97	2,308.42	6.76	6.25	118.92	233.17	-27.71	279.53	267.50	12.04	23.227	
2,500.00	2,464.41	2,425.57	2,394.08	7.38	6.77	119.43	265.32	-32.15	319.57	306.60	12.96	24.649	
2,600.00	2,558.24	2,517.18	2,479.74	8.02	7.31	119.83	297.48	-36.60	359.62	345.69	13.93	25.825	
2,700.00	2,652.07	2,608.78	2,565.40	8.68	7.87	120.15	329.63	-41.05	399.68	384.77	14.91	26.804	
2,800.00	2,745.91	2,700.38	2,651.06	9.34	8.44	120.41	361.78	-45.49	439.75	423.83	15.92	27.627	
2,900.00	2,839.74	2,791.99	2,736.72	10.02	9.01	120.63	393.94	-49.94	479.83	462.89	16.94	28.323	
3,000.00	2,933.57	2,883.59	2,822.38	10.70	9.60	120.81	426.09	-54.39	519.91	501.93	17.98	28.918	
3,100.00	3,027.41	2,975.20	2,908.04	11.38	10.19	120.97	458.24	-58.83	560.00	540.97	19.03	29.430	
3,200.00	3,121.24	3,066.80	2,993.70	12.07	10.79	121.11	490.40	-63.28	600.08	580.00	20.09	29.874	
3,300.00	3,215.07	3,158.40	3,079.36	12.77	11.39	121.23	522.55	-67.72	640.18	619.02	21.15	30.262	
3,400.00	3,308.91	3,250.01	3,165.02	13.47	12.00	121.33	554.71	-72.17	680.27	658.04	22.23	30.604	
3,500.00	3,402.74	3,341.61	3,250.68	14.17	12.61	121.43	586.86	-76.62	720.36	697.05	23.31	30.905	
3,600.00	3,496.57	3,433.22	3,336.34	14.87	13.22	121.51	619.01	-81.06	760.46	736.07	24.39	31.173	
3,700.00	3,590.41	3,524.82	3,422.00	15.58	13.84	121.59	651.17	-85.51	800.56	775.07	25.48	31.413	
3,800.00	3,684.24	3,616.42	3,507.66	16.29	14.46	121.66	683.32	-89.95	840.66	814.08	26.58	31.628	
3,900.00	3,778.07	3,708.03	3,593.32	17.00	15.07	121.72	715.48	-94.40	880.76	853.08	27.68	31.822	
4,000.00	3,871.91	3,799.63	3,678.98	17.71	15.69	121.77	747.63	-98.85	920.86	892.08	28.78	31.998	
4,100.00	3,965.74	3,891.24	3,764.64	18.42	16.32	121.83	779.78	-103.29	960.96	931.08	29.88	32.157	
4,200.00	4,059.57	3,982.84	3,850.30	19.13	16.94	121.87	811.94	-107.74	1,001.06	970.07	30.99	32.303	
4,300.00	4,153.41	4,074.44	3,935.96	19.85	17.57	121.92	844.09	-112.18	1,041.16	1,009.06	32.10	32.436	
4,400.00	4,247.24	4,166.05	4,021.62	20.56	18.19	121.96	876.24	-116.63	1,081.26	1,048.06	33.21	32.559	
4,500.00	4,341.07	4,257.65	4,107.28	21.28	18.82	122.00	908.40	-121.08	1,121.37	1,087.05	34.32	32.672	
4,600.00	4,434.91	4,349.26	4,192.94	22.00	19.45	122.03	940.55	-125.52	1,161.47	1,126.03	35.44	32.776	
4,700.00	4,528.74	4,440.86	4,278.60	22.71	20.07	122.07	972.71	-129.97	1,201.58	1,165.02	36.55	32.872	
4,800.00	4,622.57	4,532.46	4,364.26	23.43	20.70	122.10	1,004.86	-134.42	1,241.68	1,204.01	37.67	32.962	
4,900.00	4,716.41	4,624.07	4,449.92	24.15	21.33	122.13	1,037.01	-138.86	1,281.78	1,243.00	38.79	33.045	

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 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 24-27 - P_DRY CREEK 24-27 - PLAN #1 10-29-09 F												<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	4,810.24	4,715.67	4,535.59	24.87	21.96	122.15	1,069.17	-143.31	1,321.89	1,281.98	39.91	33.123	
5,100.00	4,904.07	4,807.28	4,621.25	25.59	22.59	122.18	1,101.32	-147.75	1,361.99	1,320.96	41.03	33.195	
5,200.00	4,997.91	4,898.88	4,706.91	26.31	23.22	122.20	1,133.47	-152.20	1,402.10	1,359.95	42.15	33.263	
5,300.00	5,091.74	4,990.48	4,792.57	27.03	23.86	122.22	1,165.63	-156.65	1,442.21	1,398.93	43.27	33.327	
5,400.00	5,185.57	5,082.09	4,878.23	27.75	24.49	122.25	1,197.78	-161.09	1,482.31	1,437.91	44.40	33.387	
5,500.00	5,279.41	5,173.69	4,963.89	28.47	25.12	122.27	1,229.94	-165.54	1,522.42	1,476.89	45.52	33.443	
5,581.15	5,355.55	5,248.03	5,033.40	29.06	25.64	122.28	1,256.03	-169.15	1,554.96	1,508.53	46.44	33.487	
5,600.00	5,373.26	5,265.31	5,049.56	29.18	25.75	122.42	1,262.09	-169.99	1,562.49	1,515.83	46.66	33.485	
5,700.00	5,467.89	5,357.41	5,135.68	29.71	26.39	123.07	1,294.42	-174.46	1,601.41	1,553.62	47.79	33.513	
5,800.00	5,563.60	5,450.13	5,222.39	30.19	27.03	123.57	1,326.97	-178.96	1,638.57	1,589.70	48.87	33.528	
5,900.00	5,660.25	5,543.38	5,309.58	30.62	27.68	123.94	1,359.70	-183.48	1,673.96	1,624.04	49.92	33.535	
6,000.00	5,757.74	5,676.02	5,434.35	31.00	28.43	124.06	1,404.30	-189.65	1,706.75	1,655.75	51.00	33.463	
6,100.00	5,855.95	5,825.17	5,576.91	31.33	29.12	124.12	1,447.65	-195.64	1,734.91	1,682.91	52.00	33.361	
6,200.00	5,954.75	5,978.27	5,725.42	31.62	29.74	124.17	1,484.44	-200.73	1,758.16	1,705.27	52.89	33.242	
6,300.00	6,054.03	6,134.69	5,878.97	31.85	30.26	124.20	1,513.86	-204.80	1,776.34	1,722.70	53.65	33.112	
6,400.00	6,153.67	6,293.68	6,036.47	32.04	30.69	124.21	1,535.21	-207.75	1,789.31	1,735.04	54.27	32.972	
6,500.00	6,253.54	6,454.41	6,196.66	32.18	30.99	124.22	1,547.96	-209.51	1,796.97	1,742.24	54.73	32.831	
6,592.47	6,346.00	6,603.81	6,346.00	32.27	31.18	44.72	1,551.82	-210.05	1,799.28	1,744.24	55.04	32.693	
6,600.00	6,353.53	6,611.34	6,353.53	32.28	31.18	44.72	1,551.82	-210.05	1,799.28	1,744.23	55.05	32.684	
6,700.00	6,453.53	6,711.34	6,453.53	32.37	31.27	44.72	1,551.82	-210.05	1,799.28	1,744.02	55.26	32.561	
6,800.00	6,553.53	6,811.34	6,553.53	32.47	31.37	44.72	1,551.82	-210.05	1,799.28	1,743.80	55.48	32.433	
6,900.00	6,653.53	6,911.34	6,653.53	32.57	31.46	44.72	1,551.82	-210.05	1,799.28	1,743.58	55.70	32.305	
7,000.00	6,753.53	7,011.34	6,753.53	32.67	31.56	44.72	1,551.82	-210.05	1,799.28	1,743.36	55.92	32.176	
7,100.00	6,853.53	7,111.34	6,853.53	32.77	31.66	44.72	1,551.82	-210.05	1,799.28	1,743.13	56.15	32.047	
7,200.00	6,953.53	7,211.34	6,953.53	32.87	31.76	44.72	1,551.82	-210.05	1,799.28	1,742.90	56.37	31.917	
7,300.00	7,053.53	7,311.34	7,053.53	32.97	31.86	44.72	1,551.82	-210.05	1,799.28	1,742.67	56.61	31.786	
7,400.00	7,153.53	7,411.34	7,153.53	33.07	31.96	44.72	1,551.82	-210.05	1,799.28	1,742.44	56.84	31.655	
7,500.00	7,253.53	7,511.34	7,253.53	33.18	32.06	44.72	1,551.82	-210.05	1,799.28	1,742.20	57.08	31.524	
7,600.00	7,353.53	7,611.34	7,353.53	33.28	32.17	44.72	1,551.82	-210.05	1,799.28	1,741.96	57.31	31.393	
7,700.00	7,453.53	7,711.34	7,453.53	33.39	32.27	44.72	1,551.82	-210.05	1,799.28	1,741.72	57.56	31.261	
7,800.00	7,553.53	7,811.34	7,553.53	33.50	32.38	44.72	1,551.82	-210.05	1,799.28	1,741.48	57.80	31.129	
7,900.00	7,653.53	7,911.34	7,653.53	33.61	32.49	44.72	1,551.82	-210.05	1,799.28	1,741.23	58.05	30.997	
8,000.00	7,753.53	8,011.34	7,753.53	33.72	32.60	44.72	1,551.82	-210.05	1,799.28	1,740.98	58.30	30.865	
8,100.00	7,853.53	8,111.34	7,853.53	33.83	32.71	44.72	1,551.82	-210.05	1,799.28	1,740.73	58.55	30.732	
8,152.47	7,906.00	8,163.81	7,906.00	33.89	32.77	44.72	1,551.82	-210.05	1,799.28	1,740.60	58.68	30.663	



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 37-27 - P_DRY CREEK 37-27 - PLAN #1 10-29-09 I													Offset Site Error: 0.00 ft
Survey Program: 0-MWMD													Offset Well Error: 0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Tooface (")	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	180.00	-32.79	0.00	32.79				
100.00	100.00	100.00	100.00	0.10	0.10	180.00	-32.79	0.00	32.79	32.60	0.19	171.624	
200.00	200.00	200.00	200.00	0.32	0.32	180.00	-32.79	0.00	32.79	32.15	0.64	51.186	
300.00	300.00	300.00	300.00	0.55	0.55	180.00	-32.79	0.00	32.79	31.70	1.09	30.078	
400.00	400.00	400.00	400.00	0.77	0.77	180.00	-32.79	0.00	32.79	31.25	1.54	21.296	
500.00	500.00	500.00	500.00	0.99	0.99	180.00	-32.79	0.00	32.79	30.80	1.99	16.484	
600.00	600.00	600.00	600.00	1.22	1.22	180.00	-32.79	0.00	32.79	30.35	2.44	13.445	
700.00	700.00	700.00	700.00	1.44	1.44	180.00	-32.79	0.00	32.79	29.90	2.89	11.353	
800.00	800.00	800.00	800.00	1.67	1.67	180.00	-32.79	0.00	32.79	29.45	3.34	9.824	
900.00	900.00	900.00	900.00	1.89	1.89	180.00	-32.79	0.00	32.79	29.00	3.79	8.658	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	180.00	-32.79	0.00	32.79	28.55	4.24	7.739	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	180.00	-32.79	0.00	32.79	28.10	4.69	6.997	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	180.00	-32.79	0.00	32.79	27.65	5.14	6.384	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	180.00	-32.79	0.00	32.79	27.43	5.36	6.117 CC, ES	
1,300.00	1,300.00	1,299.44	1,299.44	2.79	2.78	-101.05	-33.21	-0.09	33.29	27.73	5.56	5.983 SF	
1,400.00	1,399.93	1,398.15	1,398.08	2.99	2.95	-104.97	-36.53	-0.83	37.41	31.47	5.94	6.298	
1,500.00	1,499.68	1,496.35	1,496.05	3.21	3.12	-110.61	-43.12	-2.30	46.03	39.70	6.33	7.274	
1,600.00	1,599.13	1,593.71	1,592.88	3.44	3.32	-115.87	-52.89	-4.48	59.46	52.73	6.73	8.834	
1,700.00	1,698.15	1,689.91	1,688.18	3.69	3.53	-119.93	-65.69	-7.34	77.76	70.61	7.15	10.869	
1,800.00	1,796.63	1,784.65	1,781.55	3.97	3.77	-122.83	-81.34	-10.83	100.84	93.23	7.61	13.253	
1,900.00	1,894.44	1,878.21	1,873.20	4.30	4.04	-124.85	-99.70	-14.92	128.52	120.41	8.10	15.857	
2,000.00	1,991.46	1,973.21	1,966.04	4.67	4.35	-126.78	-119.37	-19.31	159.16	150.51	8.65	18.399	
2,100.00	2,087.58	2,067.36	2,058.05	5.10	4.67	-128.74	-138.85	-23.66	192.06	182.82	9.24	20.791	
2,200.00	2,182.68	2,160.54	2,149.11	5.60	5.01	-130.65	-158.14	-27.96	227.33	217.47	9.87	23.043	
2,261.32	2,240.45	2,217.15	2,204.43	5.94	5.22	-131.77	-169.85	-30.57	250.19	239.92	10.27	24.362	
2,300.00	2,276.74	2,252.72	2,239.19	6.16	5.36	-132.64	-177.21	-32.21	264.93	254.38	10.55	25.123	
2,400.00	2,370.57	2,344.68	2,329.06	6.76	5.71	-134.52	-196.25	-36.46	303.25	291.97	11.27	26.901	
2,500.00	2,464.41	2,436.65	2,418.94	7.38	6.08	-135.98	-215.28	-40.70	341.78	329.76	12.02	28.439	
2,600.00	2,558.24	2,528.62	2,508.81	8.02	6.45	-137.14	-234.31	-44.95	380.46	367.68	12.78	29.775	
2,700.00	2,652.07	2,620.58	2,598.69	8.68	6.83	-138.09	-253.35	-49.19	419.25	405.70	13.55	30.942	
2,800.00	2,745.91	2,712.55	2,688.56	9.34	7.22	-138.88	-272.38	-53.44	458.13	443.80	14.33	31.967	
2,900.00	2,839.74	2,804.52	2,778.44	10.02	7.61	-139.54	-291.42	-57.68	497.07	481.95	15.12	32.874	
3,000.00	2,933.57	2,896.48	2,868.31	10.70	8.00	-140.11	-310.45	-61.93	536.05	520.13	15.92	33.679	
3,100.00	3,027.41	2,988.45	2,958.19	11.38	8.40	-140.60	-329.48	-66.18	575.08	558.36	16.72	34.399	
3,200.00	3,121.24	3,080.41	3,048.06	12.07	8.80	-141.03	-348.52	-70.42	614.13	596.61	17.52	35.045	
3,300.00	3,215.07	3,172.38	3,137.94	12.77	9.20	-141.41	-367.55	-74.67	653.21	634.88	18.33	35.628	
3,400.00	3,308.91	3,264.35	3,227.81	13.47	9.60	-141.75	-386.58	-78.91	692.32	673.17	19.15	36.157	
3,500.00	3,402.74	3,356.31	3,317.69	14.17	10.01	-142.05	-405.62	-83.16	731.44	711.47	19.96	36.639	
3,600.00	3,496.57	3,448.28	3,407.56	14.87	10.42	-142.32	-424.65	-87.40	770.57	749.79	20.78	37.080	
3,700.00	3,590.41	3,540.24	3,497.44	15.58	10.83	-142.56	-443.68	-91.65	809.72	788.12	21.60	37.484	
3,800.00	3,684.24	3,632.21	3,587.31	16.29	11.24	-142.78	-462.72	-95.89	848.88	826.46	22.42	37.857	
3,900.00	3,778.07	3,724.18	3,677.19	17.00	11.65	-142.98	-481.75	-100.14	888.05	864.81	23.25	38.201	
4,000.00	3,871.91	3,816.14	3,767.06	17.71	12.06	-143.17	-500.79	-104.38	927.23	903.16	24.07	38.521	
4,100.00	3,965.74	3,908.11	3,856.93	18.42	12.47	-143.34	-519.82	-108.63	966.42	941.52	24.90	38.818	
4,200.00	4,059.57	4,000.08	3,946.81	19.13	12.89	-143.49	-538.85	-112.87	1,005.61	979.89	25.72	39.095	
4,300.00	4,153.41	4,092.04	4,036.68	19.85	13.30	-143.64	-557.89	-117.12	1,044.81	1,018.26	26.55	39.354	
4,400.00	4,247.24	4,184.01	4,126.56	20.56	13.72	-143.77	-576.92	-121.36	1,084.02	1,056.64	27.38	39.597	
4,500.00	4,341.07	4,275.97	4,216.43	21.28	14.14	-143.90	-595.95	-125.61	1,123.22	1,095.02	28.20	39.825	
4,600.00	4,434.91	4,367.94	4,306.31	22.00	14.55	-144.01	-614.99	-129.86	1,162.44	1,133.41	29.03	40.041	
4,700.00	4,528.74	4,459.91	4,396.18	22.71	14.97	-144.12	-634.02	-134.10	1,201.65	1,171.79	29.86	40.244	
4,800.00	4,622.57	4,551.87	4,486.06	23.43	15.39	-144.22	-653.05	-138.35	1,240.87	1,210.19	30.69	40.436	
4,900.00	4,716.41	4,643.84	4,575.93	24.15	15.81	-144.32	-672.09	-142.59	1,280.10	1,248.58	31.52	40.618	

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 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,810.24	4,735.81	4,665.81	24.87	16.22	-144.41	-691.12	-146.84	1,319.32	1,286.98	32.34	40.792	
5,100.00	4,904.07	4,827.77	4,755.68	25.59	16.64	-144.49	-710.15	-151.08	1,358.55	1,325.38	33.17	40.956	
5,200.00	4,997.91	4,919.74	4,845.56	26.31	17.06	-144.57	-729.19	-155.33	1,397.78	1,363.79	34.00	41.113	
5,300.00	5,091.74	5,011.70	4,935.43	27.03	17.48	-144.65	-748.22	-159.57	1,437.02	1,402.19	34.83	41.263	
5,400.00	5,185.57	5,103.67	5,025.31	27.75	17.90	-144.72	-767.26	-163.82	1,476.25	1,440.60	35.65	41.406	
5,500.00	5,279.41	5,195.64	5,115.18	28.47	18.32	-144.79	-786.29	-168.06	1,515.49	1,479.01	36.48	41.544	
5,581.15	5,355.55	5,270.26	5,188.11	29.06	18.67	-144.84	-801.73	-171.51	1,547.33	1,510.18	37.15	41.651	
5,600.00	5,373.26	5,287.62	5,205.08	29.18	18.75	-144.94	-805.33	-172.31	1,554.68	1,517.37	37.31	41.668	
5,700.00	5,467.89	5,380.35	5,295.70	29.71	19.17	-145.41	-824.52	-176.59	1,592.10	1,554.00	38.10	41.784	
5,800.00	5,563.60	5,474.10	5,387.31	30.19	19.60	-145.76	-843.92	-180.92	1,626.84	1,587.97	38.87	41.850	
5,900.00	5,660.25	5,568.76	5,479.82	30.62	20.03	-146.01	-863.51	-185.29	1,658.87	1,619.21	39.65	41.833	
6,000.00	5,757.74	5,664.20	5,573.09	31.00	20.47	-146.15	-883.27	-189.69	1,688.15	1,647.73	40.42	41.765	
6,100.00	5,855.95	5,760.32	5,667.03	31.33	20.91	-146.19	-903.16	-194.13	1,714.68	1,673.53	41.15	41.666	
6,200.00	5,954.75	5,857.00	5,761.50	31.62	21.36	-146.15	-923.17	-198.59	1,738.44	1,696.59	41.85	41.540	
6,300.00	6,054.03	5,959.83	5,901.77	31.85	21.82	-145.92	-949.42	-204.45	1,758.20	1,715.65	42.55	41.317	
6,400.00	6,153.67	6,146.50	6,047.01	32.04	22.19	-145.74	-969.24	-208.87	1,772.53	1,729.41	43.12	41.109	
6,500.00	6,253.54	6,295.19	6,195.11	32.18	22.49	-145.62	-981.91	-211.69	1,781.28	1,737.72	43.56	40.889	
6,592.47	6,346.00	6,433.68	6,333.50	32.27	22.70	134.93	-986.94	-212.82	1,784.36	1,740.49	43.86	40.682	
6,600.00	6,353.53	6,444.98	6,344.79	32.28	22.72	134.94	-987.06	-212.84	1,784.40	1,740.51	43.89	40.659	
6,700.00	6,453.53	6,553.72	6,453.53	32.37	22.85	134.94	-987.18	-212.87	1,784.44	1,740.29	44.15	40.415	
6,800.00	6,553.53	6,653.72	6,553.53	32.47	22.96	134.94	-987.18	-212.87	1,784.44	1,740.04	44.40	40.188	
6,900.00	6,653.53	6,753.72	6,653.53	32.57	23.07	134.94	-987.18	-212.87	1,784.44	1,739.79	44.65	39.961	
7,000.00	6,753.53	6,853.72	6,753.53	32.67	23.18	134.94	-987.18	-212.87	1,784.44	1,739.53	44.91	39.734	
7,100.00	6,853.53	6,953.72	6,853.53	32.77	23.30	134.94	-987.18	-212.87	1,784.44	1,739.28	45.17	39.507	
7,200.00	6,953.53	7,053.72	6,953.53	32.87	23.41	134.94	-987.18	-212.87	1,784.44	1,739.01	45.43	39.280	
7,300.00	7,053.53	7,153.72	7,053.53	32.97	23.53	134.94	-987.18	-212.87	1,784.44	1,738.75	45.69	39.053	
7,400.00	7,153.53	7,253.72	7,153.53	33.07	23.65	134.94	-987.18	-212.87	1,784.44	1,738.48	45.96	38.826	
7,500.00	7,253.53	7,353.72	7,253.53	33.18	23.77	134.94	-987.18	-212.87	1,784.44	1,738.21	46.23	38.599	
7,600.00	7,353.53	7,453.72	7,353.53	33.28	23.90	134.94	-987.18	-212.87	1,784.44	1,737.94	46.50	38.373	
7,700.00	7,453.53	7,553.72	7,453.53	33.39	24.02	134.94	-987.18	-212.87	1,784.44	1,737.66	46.78	38.147	
7,800.00	7,553.53	7,653.72	7,553.53	33.50	24.15	134.94	-987.18	-212.87	1,784.44	1,737.39	47.06	37.921	
7,900.00	7,653.53	7,753.72	7,653.53	33.61	24.28	134.94	-987.18	-212.87	1,784.44	1,737.11	47.34	37.696	
8,000.00	7,753.53	7,853.72	7,753.53	33.72	24.40	134.94	-987.18	-212.87	1,784.44	1,736.82	47.62	37.472	
8,100.00	7,853.53	7,953.72	7,853.53	33.83	24.53	134.94	-987.18	-212.87	1,784.44	1,736.54	47.91	37.248	
8,152.47	7,906.00	8,006.19	7,906.00	33.89	24.60	134.94	-987.18	-212.87	1,784.44	1,736.39	48.06	37.131	



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.35	0.00	47.35				
100.00	100.00	100.00	100.00	0.10	0.10	0.00	47.35	0.00	47.35	47.16	0.19	247.847	
200.00	200.00	200.00	200.00	0.32	0.32	0.00	47.35	0.00	47.35	46.71	0.64	73.919	
300.00	300.00	300.00	300.00	0.55	0.55	0.00	47.35	0.00	47.35	46.26	1.09	43.437	
400.00	400.00	400.00	400.00	0.77	0.77	0.00	47.35	0.00	47.35	45.81	1.54	30.755	
500.00	500.00	500.00	500.00	0.99	0.99	0.00	47.35	0.00	47.35	45.36	1.99	23.805	
600.00	600.00	600.00	600.00	1.22	1.22	0.00	47.35	0.00	47.35	44.91	2.44	19.417	
700.00	700.00	700.00	700.00	1.44	1.44	0.00	47.35	0.00	47.35	44.46	2.89	16.395	
800.00	800.00	800.00	800.00	1.67	1.67	0.00	47.35	0.00	47.35	44.01	3.34	14.187	
900.00	900.00	900.00	900.00	1.89	1.89	0.00	47.35	0.00	47.35	43.56	3.79	12.503	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	0.00	47.35	0.00	47.35	43.11	4.24	11.176	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	0.00	47.35	0.00	47.35	42.67	4.69	10.104	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	0.00	47.35	0.00	47.35	42.22	5.14	9.220	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	0.00	47.35	0.00	47.35	41.99	5.36	8.833 CC, ES	
1,300.00	1,300.00	1,299.26	1,299.26	2.79	2.79	80.24	47.73	0.19	47.66	42.08	5.58	8.546	
1,400.00	1,399.93	1,397.55	1,397.49	2.99	3.01	85.68	50.76	1.67	50.41	44.41	6.00	8.399 SF	
1,500.00	1,499.68	1,495.18	1,494.88	3.21	3.23	94.71	56.77	4.62	57.09	50.66	6.43	8.873	
1,600.00	1,599.13	1,591.71	1,590.91	3.44	3.45	104.48	65.63	8.97	69.12	62.25	6.87	10.059	
1,700.00	1,698.15	1,686.74	1,685.05	3.69	3.69	112.86	77.18	14.64	87.24	79.93	7.31	11.931	
1,800.00	1,796.63	1,779.89	1,776.87	3.97	3.94	119.23	91.22	21.53	111.47	103.71	7.76	14.364	
1,900.00	1,894.44	1,870.81	1,865.97	4.30	4.21	123.79	107.50	29.52	141.49	133.26	8.22	17.209	
2,000.00	1,991.46	1,963.77	1,956.70	4.67	4.52	127.37	125.64	38.42	175.81	167.10	8.71	20.178	
2,100.00	2,087.58	2,055.97	2,046.69	5.10	4.84	130.32	143.64	47.25	212.82	203.59	9.23	23.066	
2,200.00	2,182.68	2,146.98	2,135.53	5.60	5.18	132.81	161.41	55.97	252.54	242.78	9.76	25.867	
2,261.32	2,240.45	2,202.16	2,189.39	5.94	5.38	134.16	172.18	61.25	278.25	268.14	10.10	27.543	
2,300.00	2,276.74	2,236.80	2,223.19	6.16	5.52	135.17	178.94	64.57	294.82	284.48	10.34	28.517	
2,400.00	2,370.57	2,326.36	2,310.61	6.76	5.87	137.33	196.43	73.15	337.97	327.01	10.96	30.835	
2,500.00	2,464.41	2,415.92	2,398.03	7.38	6.22	139.00	213.91	81.73	381.43	369.83	11.60	32.879	
2,600.00	2,558.24	2,505.48	2,485.44	8.02	6.58	140.34	231.40	90.31	425.10	412.85	12.26	34.686	
2,700.00	2,652.07	2,595.04	2,572.86	8.68	6.95	141.43	248.88	98.89	468.93	456.00	12.92	36.287	
2,800.00	2,745.91	2,684.60	2,660.28	9.34	7.33	142.33	266.36	107.46	512.86	499.26	13.60	37.712	
2,900.00	2,839.74	2,774.16	2,747.70	10.02	7.70	143.09	283.85	116.04	556.89	542.60	14.28	38.986	
3,000.00	2,933.57	2,863.72	2,835.11	10.70	8.08	143.74	301.33	124.62	600.98	586.00	14.98	40.129	
3,100.00	3,027.41	2,953.28	2,922.53	11.38	8.47	144.30	318.82	133.20	645.13	629.45	15.67	41.158	
3,200.00	3,121.24	3,042.84	3,009.95	12.07	8.85	144.79	336.30	141.78	689.32	672.94	16.38	42.089	
3,300.00	3,215.07	3,132.40	3,097.36	12.77	9.24	145.22	353.79	150.36	733.54	716.46	17.09	42.934	
3,400.00	3,308.91	3,221.96	3,184.78	13.47	9.63	145.60	371.27	158.94	777.80	760.00	17.80	43.703	
3,500.00	3,402.74	3,311.52	3,272.20	14.17	10.02	145.94	388.75	167.52	822.08	803.57	18.51	44.406	
3,600.00	3,496.57	3,401.08	3,359.61	14.87	10.42	146.25	406.24	176.10	866.38	847.15	19.23	45.051	
3,700.00	3,590.41	3,490.64	3,447.03	15.58	10.81	146.53	423.72	184.68	910.70	890.75	19.95	45.643	
3,800.00	3,684.24	3,580.20	3,534.45	16.29	11.21	146.78	441.21	193.25	955.04	934.36	20.68	46.190	
3,900.00	3,778.07	3,669.76	3,621.86	17.00	11.60	147.01	458.69	201.83	999.38	977.98	21.40	46.695	
4,000.00	3,871.91	3,759.32	3,709.28	17.71	12.00	147.21	476.17	210.41	1,043.74	1,021.61	22.13	47.163	
4,100.00	3,965.74	3,848.88	3,796.70	18.42	12.40	147.41	493.66	218.99	1,088.11	1,065.25	22.86	47.598	
4,200.00	4,059.57	3,938.44	3,884.12	19.13	12.80	147.58	511.14	227.57	1,132.49	1,108.90	23.59	48.003	
4,300.00	4,153.41	4,028.00	3,971.53	19.85	13.20	147.75	528.63	236.15	1,176.88	1,152.56	24.33	48.381	
4,400.00	4,247.24	4,117.56	4,058.95	20.56	13.60	147.90	546.11	244.73	1,221.28	1,196.22	25.06	48.735	
4,500.00	4,341.07	4,207.12	4,146.37	21.28	14.00	148.04	563.59	253.31	1,265.68	1,239.88	25.79	49.067	
4,600.00	4,434.91	4,296.68	4,233.78	22.00	14.41	148.17	581.08	261.89	1,310.08	1,283.55	26.53	49.378	
4,700.00	4,528.74	4,386.24	4,321.20	22.71	14.81	148.29	598.56	270.47	1,354.50	1,327.23	27.27	49.671	
4,800.00	4,622.57	4,475.80	4,408.62	23.43	15.21	148.41	616.05	279.04	1,398.91	1,370.90	28.01	49.946	
4,900.00	4,716.41	4,565.36	4,496.03	24.15	15.62	148.52	633.53	287.62	1,443.33	1,414.58	28.75	50.206	

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 23-27
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> WELD_DRY CREEK 20-27 PAD - P_DRY CREEK 9-27 - P_DRY CREEK 9-27 - PLAN #1 10-29-09 RH:												<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	4,810.24	4,654.92	4,583.45	24.87	16.02	148.62	651.01	296.20	1,487.76	1,458.27	29.49	50.452	
5,100.00	4,904.07	4,744.48	4,670.87	25.59	16.43	148.72	668.50	304.78	1,532.19	1,501.96	30.23	50.685	
5,200.00	4,997.91	4,834.04	4,758.28	26.31	16.83	148.81	685.98	313.36	1,576.62	1,545.65	30.97	50.905	
5,300.00	5,091.74	4,923.60	4,845.70	27.03	17.24	148.89	703.47	321.94	1,621.05	1,589.34	31.71	51.114	
5,400.00	5,185.57	5,013.16	4,933.12	27.75	17.64	148.97	720.95	330.52	1,665.49	1,633.03	32.46	51.313	
5,500.00	5,279.41	5,102.72	5,020.54	28.47	18.05	149.05	738.44	339.10	1,709.93	1,676.73	33.20	51.502	
5,581.15	5,355.55	5,175.40	5,091.47	29.06	18.38	149.11	752.62	346.06	1,745.99	1,712.19	33.81	51.648	
5,600.00	5,373.26	5,192.30	5,107.98	29.18	18.45	149.22	755.92	347.68	1,754.32	1,720.36	33.97	51.649	
5,700.00	5,467.89	5,282.78	5,196.28	29.71	18.87	149.72	773.59	356.35	1,796.90	1,762.13	34.78	51.670	
5,800.00	5,563.60	5,374.49	5,285.80	30.19	19.28	150.12	791.49	365.13	1,836.74	1,801.18	35.56	51.648	
5,900.00	5,660.25	5,467.33	5,376.42	30.62	19.70	150.42	809.61	374.02	1,873.78	1,837.46	36.32	51.590	
6,000.00	5,757.74	5,561.18	5,468.03	31.00	20.13	150.64	827.94	383.01	1,908.00	1,870.95	37.05	51.502	
6,100.00	5,855.95	5,655.94	5,560.51	31.33	20.56	150.77	846.44	392.09	1,939.35	1,901.62	37.74	51.389	
6,200.00	5,954.75	5,751.47	5,653.76	31.62	21.00	150.82	865.09	401.24	1,967.83	1,929.44	38.39	51.254	
6,300.00	6,054.03	5,857.23	5,757.01	31.85	21.47	150.77	885.67	411.34	1,993.38	1,954.35	39.04	51.062	
6,400.00	6,153.67	6,050.73	5,947.38	32.04	22.09	150.49	916.54	426.49	2,013.27	1,973.46	39.81	50.570	
6,500.00	6,253.54	6,249.36	6,144.77	32.18	22.57	150.31	936.15	436.11	2,025.39	1,984.98	40.41	50.115	
6,592.47	6,346.00	6,435.52	6,330.72	32.27	22.87	70.72	943.34	439.64	2,029.53	1,988.70	40.82	49.718	
6,600.00	6,353.53	6,450.71	6,345.92	32.28	22.89	70.72	943.45	439.69	2,029.57	1,988.72	40.85	49.682	
6,700.00	6,453.53	6,558.32	6,453.53	32.37	23.03	70.72	943.49	439.71	2,029.58	1,988.44	41.14	49.330	
6,800.00	6,553.53	6,658.32	6,553.53	32.47	23.16	70.72	943.49	439.71	2,029.58	1,988.15	41.43	48.987	
6,900.00	6,653.53	6,758.32	6,653.53	32.57	23.29	70.72	943.49	439.71	2,029.58	1,987.86	41.72	48.645	
7,000.00	6,753.53	6,858.32	6,753.53	32.67	23.43	70.72	943.49	439.71	2,029.58	1,987.57	42.02	48.304	
7,100.00	6,853.53	6,958.32	6,853.53	32.77	23.56	70.72	943.49	439.71	2,029.58	1,987.27	42.31	47.965	
7,200.00	6,953.53	7,058.32	6,953.53	32.87	23.70	70.72	943.49	439.71	2,029.58	1,986.97	42.61	47.628	
7,300.00	7,053.53	7,158.32	7,053.53	32.97	23.84	70.72	943.49	439.71	2,029.58	1,986.67	42.92	47.293	
7,400.00	7,153.53	7,258.32	7,153.53	33.07	23.98	70.72	943.49	439.71	2,029.58	1,986.36	43.22	46.959	
7,500.00	7,253.53	7,358.32	7,253.53	33.18	24.12	70.72	943.49	439.71	2,029.58	1,986.05	43.53	46.628	
7,600.00	7,353.53	7,458.32	7,353.53	33.28	24.26	70.72	943.49	439.71	2,029.58	1,985.75	43.84	46.299	
7,700.00	7,453.53	7,558.32	7,453.53	33.39	24.41	70.72	943.49	439.71	2,029.58	1,985.43	44.15	45.972	
7,800.00	7,553.53	7,658.32	7,553.53	33.50	24.55	70.72	943.49	439.71	2,029.58	1,985.12	44.46	45.647	
7,900.00	7,653.53	7,758.32	7,653.53	33.61	24.70	70.72	943.49	439.71	2,029.58	1,984.80	44.78	45.324	
8,000.00	7,753.53	7,858.32	7,753.53	33.72	24.85	70.72	943.49	439.71	2,029.58	1,984.48	45.10	45.003	
8,100.00	7,853.53	7,958.32	7,853.53	33.83	25.00	70.72	943.49	439.71	2,029.58	1,984.16	45.42	44.685	
8,152.47	7,906.00	8,010.79	7,906.00	33.89	25.07	70.72	943.49	439.71	2,029.58	1,983.99	45.59	44.519	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 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						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	71.38	10.19	30.25	36.16				
100.00	100.00	83.00	83.00	0.10	1.66	71.38	10.19	30.25	31.92	30.16	1.76	18.182	
200.00	200.00	183.00	183.00	0.32	5.32	71.38	10.19	30.25	31.92	26.28	5.64	5.659	
300.00	300.00	283.00	283.00	0.55	9.32	71.38	10.19	30.25	31.92	22.05	9.87	3.236	
400.00	400.00	383.00	383.00	0.77	13.32	71.38	10.19	30.25	31.92	17.83	14.09	2.265	
500.00	500.00	483.00	483.00	0.99	17.32	71.38	10.19	30.25	31.92	13.60	18.31	1.743	
600.00	600.00	583.00	583.00	1.22	21.32	71.38	10.19	30.25	31.92	9.38	22.54	1.416	Level 3
700.00	700.00	683.00	683.00	1.44	25.32	71.38	10.19	30.25	31.92	5.16	26.76	1.193	Level 2
800.00	800.00	783.00	783.00	1.67	29.32	71.38	10.19	30.25	31.92	0.93	30.99	1.030	Level 2
900.00	900.00	883.00	883.00	1.89	33.32	71.38	10.19	30.25	31.92	-3.29	35.21	0.906	Level 1
1,000.00	1,000.00	983.00	983.00	2.12	37.32	71.38	10.19	30.25	31.92	-7.52	39.44	0.809	Level 1
1,100.00	1,100.00	1,083.00	1,083.00	2.34	41.32	71.38	10.19	30.25	31.92	-11.74	43.66	0.731	Level 1
1,200.00	1,200.00	1,183.00	1,183.00	2.57	45.32	71.38	10.19	30.25	31.92	-15.97	47.89	0.667	Level 1
1,250.00	1,250.00	1,233.00	1,233.00	2.68	47.32	71.38	10.19	30.25	31.92	-18.08	50.00	0.638	Level 1, CC
1,300.00	1,300.00	1,283.00	1,283.00	2.79	49.32	151.26	10.19	30.25	32.30	-19.80	52.10	0.620	Level 1, SF
1,400.00	1,399.93	1,382.93	1,382.93	2.99	53.32	153.95	10.19	30.25	35.40	-20.85	56.26	0.629	Level 1, ES
1,500.00	1,499.68	1,482.68	1,482.68	3.21	57.31	158.11	10.19	30.25	41.78	-18.54	60.33	0.693	Level 1
1,600.00	1,599.13	1,582.13	1,582.13	3.44	61.29	162.37	10.19	30.25	51.63	-12.66	64.29	0.803	Level 1
1,700.00	1,698.15	1,681.15	1,681.15	3.69	65.25	166.02	10.19	30.25	65.04	-3.08	68.12	0.955	Level 1
1,800.00	1,796.63	1,779.63	1,779.63	3.97	69.19	168.89	10.19	30.25	82.01	10.20	71.80	1.142	Level 2
1,900.00	1,894.44	1,877.44	1,877.44	4.30	73.10	171.06	10.19	30.25	102.50	27.17	75.33	1.361	Level 3
2,000.00	1,991.46	1,974.46	1,974.46	4.67	76.98	172.70	10.19	30.25	126.46	47.78	78.68	1.607	
2,100.00	2,087.58	2,070.58	2,070.58	5.10	80.82	173.94	10.19	30.25	153.85	72.01	81.84	1.880	
2,200.00	2,182.68	2,165.68	2,165.68	5.60	84.63	174.90	10.19	30.25	184.62	99.83	84.79	2.177	
2,261.32	2,240.45	2,223.45	2,223.45	5.94	86.94	175.37	10.19	30.25	205.14	118.64	86.50	2.372	
2,300.00	2,276.74	2,259.74	2,259.74	6.16	88.39	175.66	10.19	30.25	218.47	130.51	87.96	2.484	
2,400.00	2,370.57	2,353.57	2,353.57	6.76	92.14	176.25	10.19	30.25	252.97	161.22	91.75	2.757	
2,500.00	2,464.41	2,447.41	2,447.41	7.38	95.90	176.70	10.19	30.25	287.49	191.94	95.54	3.009	
2,600.00	2,558.24	2,541.24	2,541.24	8.02	99.65	177.05	10.19	30.25	322.02	222.67	99.35	3.241	
2,700.00	2,652.07	2,635.07	2,635.07	8.68	103.40	177.34	10.19	30.25	356.55	253.40	103.15	3.457	
2,800.00	2,745.91	2,728.91	2,728.91	9.34	107.16	177.58	10.19	30.25	391.10	284.13	106.97	3.656	
2,900.00	2,839.74	2,822.74	2,822.74	10.02	110.91	177.77	10.19	30.25	425.64	314.86	110.79	3.842	
3,000.00	2,933.57	2,916.57	2,916.57	10.70	114.66	177.94	10.19	30.25	460.20	345.59	114.61	4.015	
3,100.00	3,027.41	3,010.41	3,010.41	11.38	118.42	178.08	10.19	30.25	494.75	376.32	118.43	4.178	
3,200.00	3,121.24	3,104.24	3,104.24	12.07	122.17	178.21	10.19	30.25	529.31	407.05	122.26	4.329	
3,300.00	3,215.07	3,198.07	3,198.07	12.77	125.92	178.32	10.19	30.25	563.87	437.78	126.09	4.472	
3,400.00	3,308.91	3,291.91	3,291.91	13.47	129.68	178.42	10.19	30.25	598.43	468.51	129.92	4.606	
3,500.00	3,402.74	3,385.74	3,385.74	14.17	133.43	178.50	10.19	30.25	632.99	499.24	133.75	4.733	
3,600.00	3,496.57	3,479.57	3,479.57	14.87	137.18	178.58	10.19	30.25	667.55	529.97	137.59	4.852	
3,700.00	3,590.41	3,573.41	3,573.41	15.58	140.94	178.65	10.19	30.25	702.12	560.69	141.42	4.965	
3,800.00	3,684.24	3,667.24	3,667.24	16.29	144.69	178.71	10.19	30.25	736.68	591.42	145.26	5.071	
3,900.00	3,778.07	3,761.07	3,761.07	17.00	148.44	178.77	10.19	30.25	771.25	622.15	149.10	5.173	
4,000.00	3,871.91	3,854.91	3,854.91	17.71	152.20	178.82	10.19	30.25	805.82	652.88	152.94	5.269	
4,100.00	3,965.74	3,948.74	3,948.74	18.42	155.95	178.87	10.19	30.25	840.38	683.60	156.78	5.360	
4,200.00	4,059.57	4,042.57	4,042.57	19.13	159.70	178.92	10.19	30.25	874.95	714.33	160.62	5.447	
4,300.00	4,153.41	4,136.41	4,136.41	19.85	163.46	178.96	10.19	30.25	909.52	745.05	164.47	5.530	
4,400.00	4,247.24	4,230.24	4,230.24	20.56	167.21	179.00	10.19	30.25	944.09	775.78	168.31	5.609	
4,500.00	4,341.07	4,324.07	4,324.07	21.28	170.96	179.03	10.19	30.25	978.66	806.50	172.15	5.685	
4,600.00	4,434.91	4,417.91	4,417.91	22.00	174.72	179.06	10.19	30.25	1,013.22	837.23	176.00	5.757	
4,700.00	4,528.74	4,511.74	4,511.74	22.71	178.47	179.10	10.19	30.25	1,047.79	867.95	179.84	5.826	
4,800.00	4,622.57	4,605.57	4,605.57	23.43	182.22	179.12	10.19	30.25	1,082.36	898.68	183.69	5.892	
4,900.00	4,716.41	4,699.41	4,699.41	24.15	185.98	179.15	10.19	30.25	1,116.93	929.40	187.53	5.956	

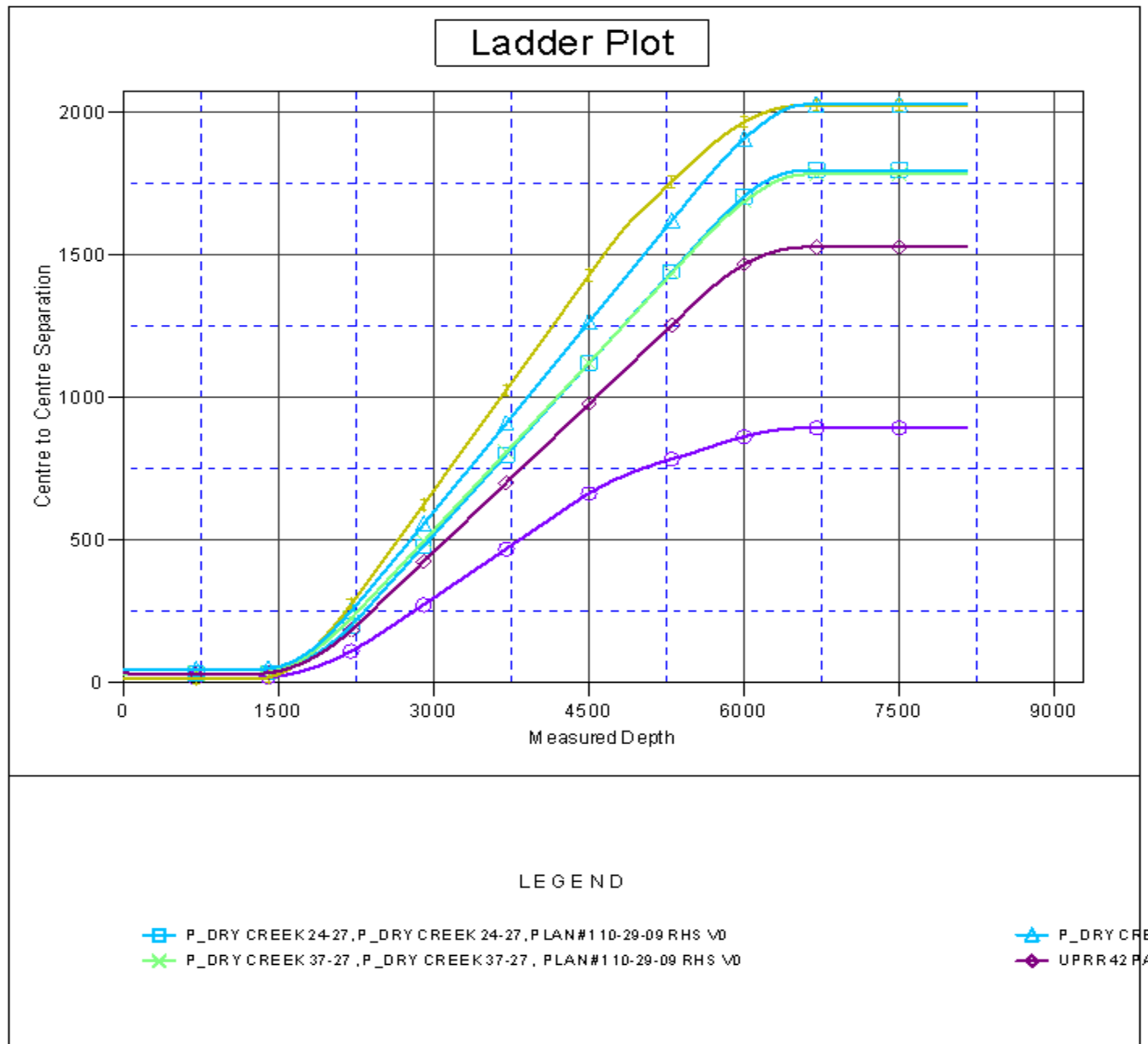
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> WELD_DRY CREEK 20-27 PAD - UPRR 42 PAN AM K #2 EXISTING - UPRR 42 PAN AM K #2 EXISTI												<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
5,000.00	4,810.24	4,793.24	4,793.24	24.87	189.73	179.18	10.19	30.25	1,151.50	960.12	191.38	6.017	
5,100.00	4,904.07	4,887.07	4,887.07	25.59	193.48	179.20	10.19	30.25	1,186.07	990.85	195.23	6.075	
5,200.00	4,997.91	4,980.91	4,980.91	26.31	197.24	179.22	10.19	30.25	1,220.64	1,021.57	199.08	6.132	
5,300.00	5,091.74	5,074.74	5,074.74	27.03	200.99	179.24	10.19	30.25	1,255.21	1,052.29	202.92	6.186	
5,400.00	5,185.57	5,168.57	5,168.57	27.75	204.74	179.26	10.19	30.25	1,289.79	1,083.01	206.77	6.238	
5,500.00	5,279.41	5,262.41	5,262.41	28.47	208.50	179.28	10.19	30.25	1,324.36	1,113.74	210.62	6.288	
5,581.15	5,355.55	5,338.55	5,338.55	29.06	211.54	179.30	10.19	30.25	1,352.41	1,138.67	213.74	6.327	
5,600.00	5,373.26	5,356.26	5,356.26	29.18	212.25	179.30	10.19	30.25	1,358.87	1,143.94	214.92	6.323	
5,700.00	5,467.89	5,450.89	5,450.89	29.71	216.04	179.33	10.19	30.25	1,391.17	1,170.04	221.14	6.291	
5,800.00	5,563.60	5,546.60	5,546.60	30.19	219.86	179.35	10.19	30.25	1,420.16	1,192.88	227.28	6.249	
5,900.00	5,660.25	5,643.25	5,643.25	30.62	223.73	179.37	10.19	30.25	1,445.78	1,212.54	233.24	6.199	
6,000.00	5,757.74	5,740.74	5,740.74	31.00	227.63	179.38	10.19	30.25	1,468.02	1,229.02	239.00	6.142	
6,100.00	5,855.95	5,838.95	5,838.95	31.33	231.56	179.39	10.19	30.25	1,486.84	1,242.30	244.54	6.080	
6,200.00	5,954.75	5,937.75	5,937.75	31.62	235.51	179.40	10.19	30.25	1,502.22	1,252.38	249.84	6.013	
6,300.00	6,054.03	6,037.03	6,037.03	31.85	239.48	179.41	10.19	30.25	1,514.15	1,259.27	254.88	5.941	
6,400.00	6,153.67	6,136.67	6,136.67	32.04	243.47	179.41	10.19	30.25	1,522.60	1,262.97	259.63	5.864	
6,500.00	6,253.54	6,236.54	6,236.54	32.18	247.46	179.42	10.19	30.25	1,527.57	1,263.49	264.08	5.784	
6,592.47	6,346.00	6,329.00	6,329.00	32.27	251.16	99.91	10.19	30.25	1,529.06	1,261.14	267.92	5.707	
6,600.00	6,353.53	6,336.53	6,336.53	32.28	251.46	99.91	10.19	30.25	1,529.06	1,260.83	268.23	5.701	
6,700.00	6,453.53	6,436.53	6,436.53	32.37	255.46	99.91	10.19	30.25	1,529.06	1,256.66	272.40	5.613	
6,800.00	6,553.53	6,536.53	6,536.53	32.47	259.46	99.91	10.19	30.25	1,529.06	1,252.50	276.56	5.529	
6,900.00	6,653.53	6,636.53	6,636.53	32.57	263.46	99.91	10.19	30.25	1,529.06	1,248.33	280.73	5.447	
7,000.00	6,753.53	6,736.53	6,736.53	32.67	267.46	99.91	10.19	30.25	1,529.06	1,244.16	284.90	5.367	
7,100.00	6,853.53	6,836.53	6,836.53	32.77	271.46	99.91	10.19	30.25	1,529.06	1,239.99	289.07	5.290	
7,200.00	6,953.53	6,936.53	6,936.53	32.87	275.46	99.91	10.19	30.25	1,529.06	1,235.81	293.25	5.214	
7,300.00	7,053.53	7,036.53	7,036.53	32.97	279.46	99.91	10.19	30.25	1,529.06	1,231.64	297.42	5.141	
7,400.00	7,153.53	7,136.53	7,136.53	33.07	283.46	99.91	10.19	30.25	1,529.06	1,227.47	301.59	5.070	
7,500.00	7,253.53	7,236.53	7,236.53	33.18	287.46	99.91	10.19	30.25	1,529.06	1,223.29	305.77	5.001	
7,600.00	7,353.53	7,336.53	7,336.53	33.28	291.46	99.91	10.19	30.25	1,529.06	1,219.11	309.95	4.933	
7,700.00	7,453.53	7,436.53	7,436.53	33.39	295.46	99.91	10.19	30.25	1,529.06	1,214.94	314.13	4.868	
7,800.00	7,553.53	7,536.53	7,536.53	33.50	299.46	99.91	10.19	30.25	1,529.06	1,210.76	318.30	4.804	
7,900.00	7,653.53	7,636.53	7,636.53	33.61	303.46	99.91	10.19	30.25	1,529.06	1,206.58	322.48	4.742	
8,000.00	7,753.53	7,736.53	7,736.53	33.72	307.46	99.91	10.19	30.25	1,529.06	1,202.40	326.66	4.681	
8,100.00	7,853.53	7,836.53	7,836.53	33.83	311.46	99.91	10.19	30.25	1,529.06	1,198.22	330.85	4.622	
8,152.47	7,906.00	7,889.00	7,889.00	33.89	313.56	99.91	10.19	30.25	1,529.06	1,196.02	333.04	4.591	

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_DRY CREEK 23-27
<b>Project:</b>	COLORADO NOTHERN ZONE - 83	<b>TVD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Reference Site:</b>	WELD_DRY CREEK 20-27 PAD	<b>MD Reference:</b>	WELL @ 5059.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_DRY CREEK 23-27	<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 23-27	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 10-29-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5059.00ft (Original Well Elev) Coordinates are relative to: P\_DRY CREEK 23-27  
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°



Reference Depths are relative to WELL @ 5059.00ft (Original Well ElevCoordinates are relative to: P\_DRY CREEK 23-27  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
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