



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DRY CREEK PAD 6

P_DRY CREEK 7-27

P_DRY CREEK 7-27

Plan: PLAN #1 10-27-09 RHS

Standard Planning Report

27 October, 2009



P. DRY CREEK 7-27
COLORADO NORTHERN ZONE - 83
SECTION 27 T1N R67W
483 FNL 809 FEL
LAT: 40° 1' 40.908 N
LONG: 104° 52' 12.540 W



Azimuths to True North
Magnetic North: 9.07°
Magnetic Field
Strength: 53113.7nT
Dip Angle: 66.79°
Date: 10/27/2009
Model: IGRF200510

WELL DETAILS: P_DRY CREEK 7-27

+N/-S	+E/-W	Northing	Ground Level:	4993.01	Longitude	Slot
0.00	0.00	1253683.83	Easting	3176380.73	40° 1' 40.908 N	104° 52' 12.540 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3121.01	3534.32	PARKMAN TOP
4723.01	5274.58	SUSSEX TOP
7305.01	7856.58	NIO TOP
7705.02	8256.58	CODELL TOP

SECTION DETAILS

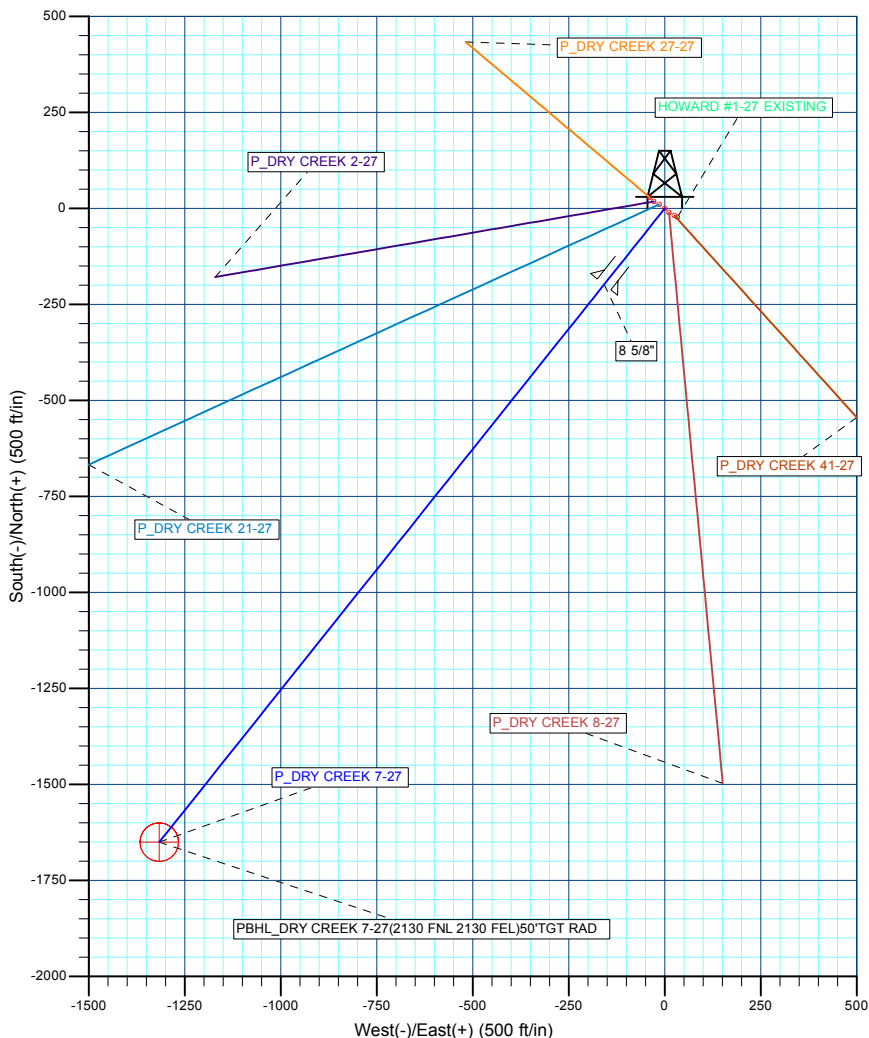
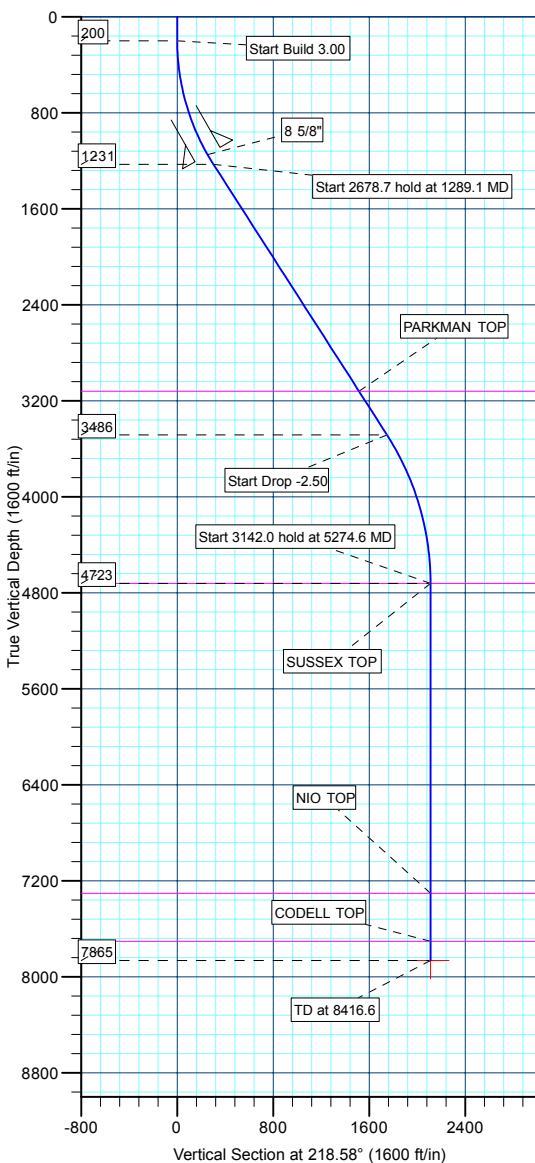
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
1289.05	32.67	218.58	1230.99	-236.23	-188.44	3.00	218.58	302.18	
3967.71	32.67	218.58	3485.83	-1366.64	-1090.15	0.00	0.00	1748.18	
5274.58	0.00	0.00	4723.01	-1650.12	-1316.27	2.50	180.00	2110.79	
8416.58	0.00	0.00	7865.02	-1650.12	-1316.27	0.00	0.00	2110.79	PBHL_DRY CREEK 7-27(2130 FNL 2130 FEL)50°TGT RAD

CASING DETAILS

TVD	MD	Name	Size
1150.00	1194.31	8 5/8"	8.62



KB ELEV: WELL @ 5008.01ft (Original Well Elev)
GRD ELEV: 4993.01



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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7865.02	-1650.11	-1316.27	1252024.42	3175076.22	40° 1' 24.600 N	104° 52' 29.460 W	Circle (Radius: 50.00)

Plan: PLAN #1 10-27-09 RHS (P_DRY CREEK 7-27/P_DRY CREEK 7-27)

Created By: Robert H. Scott

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 6	North Reference:	True
Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 7-27		
Design:	PLAN #1 10-27-09 RHS		

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

Site						WELD_DRY CREEK PAD 6, SECTION 27 T1N R67W											
Site Position:						Northing:			1,253,701.87 ft			Latitude:			40° 1' 41.088 N		
From:			Lat/Long			Easting:			3,176,352.60 ft			Longitude:			104° 52' 12.900 W		
Position Uncertainty:			0.00 ft			Slot Radius:			0.00 in			Grid Convergence:			0.41 °		

Well	P_DRY CREEK 7-27					
Well Position	+N/-S	-18.23 ft	Northing:	1,253,683.83 ft	Latitude:	40° 1' 40.908 N
	+E/-W	28.00 ft	Easting:	3,176,380.73 ft	Longitude:	104° 52' 12.540 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,993.01 ft

Wellbore	P_DRY CREEK 7-27				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/27/2009	9.07	66.79	53,114

Design	PLAN #1 10-27-09 RHS				
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Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	218.58	

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	
1,289.05	32.67	218.58	1,230.99	-236.23	-188.44	3.00	3.00	0.00	218.58	
3,967.71	32.67	218.58	3,485.83	-1,366.64	-1,090.15	0.00	0.00	0.00	0.00	
5,274.58	0.00	0.00	4,723.01	-1,650.12	-1,316.27	2.50	-2.50	0.00	180.00	
8,416.58	0.00	0.00	7,865.02	-1,650.12	-1,316.27	0.00	0.00	0.00	0.00	PBHL_DRY CREEK

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 6	North Reference:	True
Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 7-27		
Design:	PLAN #1 10-27-09 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)
Start Build 3.00									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	3.00	218.58	299.95	-2.05	-1.63	2.62	3.00	3.00	0.00
400.00	6.00	218.58	399.63	-8.18	-6.52	10.46	3.00	3.00	0.00
500.00	9.00	218.58	498.77	-18.38	-14.66	23.51	3.00	3.00	0.00
600.00	12.00	218.58	597.08	-32.63	-26.03	41.73	3.00	3.00	0.00
700.00	15.00	218.58	694.31	-50.87	-40.58	65.08	3.00	3.00	0.00
800.00	18.00	218.58	790.18	-73.07	-58.29	93.47	3.00	3.00	0.00
900.00	21.00	218.58	884.43	-99.17	-79.10	126.85	3.00	3.00	0.00
1,000.00	24.00	218.58	976.81	-129.08	-102.96	165.12	3.00	3.00	0.00
1,100.00	27.00	218.58	1,067.06	-162.73	-129.81	208.16	3.00	3.00	0.00
8 5/8"									
1,194.31	29.83	218.58	1,150.00	-197.81	-157.79	253.04	3.00	3.00	0.00
1,200.00	30.00	218.58	1,154.93	-200.03	-159.56	255.87	3.00	3.00	0.00
Start 2678.7 hold at 1289.1 MD									
1,289.05	32.67	218.58	1,230.99	-236.23	-188.44	302.18	3.00	3.00	0.00
1,300.00	32.67	218.58	1,240.20	-240.85	-192.12	308.09	0.00	0.00	0.00
1,400.00	32.67	218.58	1,324.38	-283.05	-225.78	362.07	0.00	0.00	0.00
1,500.00	32.67	218.58	1,408.56	-325.25	-259.45	416.05	0.00	0.00	0.00
1,600.00	32.67	218.58	1,492.74	-367.45	-293.11	470.04	0.00	0.00	0.00
1,700.00	32.67	218.58	1,576.91	-409.65	-326.77	524.02	0.00	0.00	0.00
1,800.00	32.67	218.58	1,661.09	-451.85	-360.44	578.00	0.00	0.00	0.00
1,900.00	32.67	218.58	1,745.27	-494.05	-394.10	631.98	0.00	0.00	0.00
2,000.00	32.67	218.58	1,829.45	-536.25	-427.76	685.96	0.00	0.00	0.00
2,100.00	32.67	218.58	1,913.62	-578.45	-461.42	739.95	0.00	0.00	0.00
2,200.00	32.67	218.58	1,997.80	-620.66	-495.09	793.93	0.00	0.00	0.00
2,300.00	32.67	218.58	2,081.98	-662.86	-528.75	847.91	0.00	0.00	0.00
2,400.00	32.67	218.58	2,166.16	-705.06	-562.41	901.89	0.00	0.00	0.00
2,500.00	32.67	218.58	2,250.34	-747.26	-596.07	955.88	0.00	0.00	0.00
2,600.00	32.67	218.58	2,334.51	-789.46	-629.74	1,009.86	0.00	0.00	0.00
2,700.00	32.67	218.58	2,418.69	-831.66	-663.40	1,063.84	0.00	0.00	0.00
2,800.00	32.67	218.58	2,502.87	-873.86	-697.06	1,117.82	0.00	0.00	0.00
2,900.00	32.67	218.58	2,587.05	-916.06	-730.73	1,171.80	0.00	0.00	0.00
3,000.00	32.67	218.58	2,671.23	-958.26	-764.39	1,225.79	0.00	0.00	0.00
3,100.00	32.67	218.58	2,755.40	-1,000.46	-798.05	1,279.77	0.00	0.00	0.00
3,200.00	32.67	218.58	2,839.58	-1,042.66	-831.71	1,333.75	0.00	0.00	0.00
3,300.00	32.67	218.58	2,923.76	-1,084.86	-865.38	1,387.73	0.00	0.00	0.00
3,400.00	32.67	218.58	3,007.94	-1,127.06	-899.04	1,441.72	0.00	0.00	0.00
3,500.00	32.67	218.58	3,092.12	-1,169.26	-932.70	1,495.70	0.00	0.00	0.00
PARKMAN TOP									
3,534.32	32.67	218.58	3,121.01	-1,183.75	-944.26	1,514.22	0.00	0.00	0.00
3,600.00	32.67	218.58	3,176.29	-1,211.46	-966.36	1,549.68	0.00	0.00	0.00
3,700.00	32.67	218.58	3,260.47	-1,253.66	-1,000.03	1,603.66	0.00	0.00	0.00
3,800.00	32.67	218.58	3,344.65	-1,295.87	-1,033.69	1,657.64	0.00	0.00	0.00
3,900.00	32.67	218.58	3,428.83	-1,338.07	-1,067.35	1,711.63	0.00	0.00	0.00
Start Drop -2.50									
3,967.71	32.67	218.58	3,485.83	-1,366.64	-1,090.15	1,748.18	0.00	0.00	0.00
4,000.00	31.86	218.58	3,513.13	-1,380.12	-1,100.90	1,765.42	2.50	-2.50	0.00
4,100.00	29.36	218.58	3,599.18	-1,419.92	-1,132.65	1,816.34	2.50	-2.50	0.00
4,200.00	26.86	218.58	3,687.38	-1,456.76	-1,162.03	1,863.46	2.50	-2.50	0.00
4,300.00	24.36	218.58	3,777.54	-1,490.55	-1,188.99	1,906.68	2.50	-2.50	0.00
4,400.00	21.86	218.58	3,869.51	-1,521.24	-1,213.47	1,945.94	2.50	-2.50	0.00
4,500.00	19.36	218.58	3,963.10	-1,548.76	-1,235.42	1,981.14	2.50	-2.50	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 6	North Reference:	True
Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 7-27		
Design:	PLAN #1 10-27-09 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)
4,600.00	16.86	218.58	4,058.13	-1,573.07	-1,254.81	2,012.23	2.50	-2.50	0.00
4,700.00	14.36	218.58	4,154.43	-1,594.11	-1,271.59	2,039.15	2.50	-2.50	0.00
4,800.00	11.86	218.58	4,251.82	-1,611.84	-1,285.74	2,061.83	2.50	-2.50	0.00
4,900.00	9.36	218.58	4,350.10	-1,626.24	-1,297.23	2,080.25	2.50	-2.50	0.00
5,000.00	6.86	218.58	4,449.09	-1,637.27	-1,306.03	2,094.37	2.50	-2.50	0.00
5,100.00	4.36	218.58	4,548.60	-1,644.92	-1,312.13	2,104.15	2.50	-2.50	0.00
5,200.00	1.86	218.58	4,648.45	-1,649.17	-1,315.51	2,109.58	2.50	-2.50	0.00
Start 3142.0 hold at 5274.6 MD - SUSSEX TOP									
5,274.58	0.00	0.00	4,723.01	-1,650.12	-1,316.27	2,110.79	2.50	-2.50	189.63
5,300.00	0.00	0.00	4,748.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
5,400.00	0.00	0.00	4,848.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
5,500.00	0.00	0.00	4,948.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
5,600.00	0.00	0.00	5,048.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
5,700.00	0.00	0.00	5,148.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
5,800.00	0.00	0.00	5,248.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
5,900.00	0.00	0.00	5,348.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,000.00	0.00	0.00	5,448.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,100.00	0.00	0.00	5,548.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,200.00	0.00	0.00	5,648.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,300.00	0.00	0.00	5,748.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,400.00	0.00	0.00	5,848.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,500.00	0.00	0.00	5,948.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,600.00	0.00	0.00	6,048.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,700.00	0.00	0.00	6,148.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,800.00	0.00	0.00	6,248.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
6,900.00	0.00	0.00	6,348.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,000.00	0.00	0.00	6,448.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,100.00	0.00	0.00	6,548.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,200.00	0.00	0.00	6,648.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,300.00	0.00	0.00	6,748.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,400.00	0.00	0.00	6,848.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,500.00	0.00	0.00	6,948.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,600.00	0.00	0.00	7,048.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,700.00	0.00	0.00	7,148.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,800.00	0.00	0.00	7,248.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
NIO TOP									
7,856.58	0.00	0.00	7,305.01	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
7,900.00	0.00	0.00	7,348.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
8,000.00	0.00	0.00	7,448.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
8,100.00	0.00	0.00	7,548.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
8,200.00	0.00	0.00	7,648.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
CODELL TOP									
8,256.58	0.00	0.00	7,705.02	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
8,300.00	0.00	0.00	7,748.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
8,400.00	0.00	0.00	7,848.43	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00
PBHL_DRY CREEK 7-27(2130 FNL 2130 FEL)50'TGT RAD									
8,416.58	0.00	0.00	7,865.02	-1,650.12	-1,316.27	2,110.79	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 6	North Reference:	True
Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 7-27		
Design:	PLAN #1 10-27-09 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 7	0.00	0.00	7,865.02	-1,650.11	-1,316.27	1,252,024.42	3,175,076.22	40° 1' 24.600 N	104° 52' 29.460 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,194.31	1,150.00	8 5/8"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,534.32	3,121.01	PARKMAN TOP			
5,274.58	4,723.01	SUSSEX TOP			
7,856.58	7,305.01	NIO TOP			
8,256.58	7,705.02	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 3.00
1,289.05	1,230.99	-236.23	-188.44	Start 2678.7 hold at 1289.1 MD
3,967.71	3,485.83	-1,366.64	-1,090.15	Start Drop -2.50
5,274.58	4,723.01	-1,650.12	-1,316.27	Start 3142.0 hold at 5274.6 MD
8,416.58	7,865.02	-1,650.12	-1,316.27	TD at 8416.6



US ROCKIES REGION PLANNING

**COLORADO NOTHERN ZONE - 83
WELD_DRY CREEK PAD 6
P_DRY CREEK 7-27**

**P_DRY CREEK 7-27
PLAN #1 10-27-09 RHS**

Anticollision Report

27 October, 2009



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Reference	PLAN #1 10-27-09 RHS		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	0.00 to 20,000.00ft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 10/27/2009			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,416.58	PLAN #1 10-27-09 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 PAD 6						
HOWARD #1-27 EXISTING - HOWARD #1-27 EXISTING	200.00	192.00	40.02	39.70	124.865	CC, ES
HOWARD #1-27 EXISTING - HOWARD #1-27 EXISTING	600.00	589.08	59.92	58.62	46.078	SF
P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN	232.24	232.24	17.76	16.98	22.801	CC
P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN	300.00	299.95	17.93	16.86	16.744	ES
P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN	8,416.58	8,350.84	988.79	902.48	11.457	SF
P_DRY CREEK 2-27 - P_DRY CREEK 2-27 - PLAN #1 1	310.71	310.65	33.26	32.14	29.742	CC, ES
P_DRY CREEK 2-27 - P_DRY CREEK 2-27 - PLAN #1 1	500.00	498.77	38.97	36.97	19.445	SF
P_DRY CREEK 27-27 - P_DRY CREEK 27-27 - PLAN #	279.71	279.69	48.82	47.84	49.652	CC
P_DRY CREEK 27-27 - P_DRY CREEK 27-27 - PLAN #	300.00	299.95	48.83	47.76	45.610	ES
P_DRY CREEK 27-27 - P_DRY CREEK 27-27 - PLAN #	600.00	597.08	63.16	60.64	25.039	SF
P_DRY CREEK 41-27 - P_DRY CREEK 41-27 - PLAN #	200.00	200.00	31.09	30.45	48.539	CC
P_DRY CREEK 41-27 - P_DRY CREEK 41-27 - PLAN #	300.00	299.95	31.33	30.26	29.256	ES
P_DRY CREEK 41-27 - P_DRY CREEK 41-27 - PLAN #	500.00	498.77	39.87	37.87	19.992	SF
P_DRY CREEK 8-27 - P_DRY CREEK 8-27 - PLAN #1 1	277.07	277.05	15.57	14.60	16.012	CC
P_DRY CREEK 8-27 - P_DRY CREEK 8-27 - PLAN #1 1	300.00	299.95	15.61	14.53	14.571	ES
P_DRY CREEK 8-27 - P_DRY CREEK 8-27 - PLAN #1 1	400.00	399.63	17.94	16.42	11.851	SF

Offset Design WELD_DRY CREEK PAD 6 - HOWARD #1-27 EXISTING - HOWARD #1-27 EXISTING - HOWARD #1-											
Survey Program: 0-											
Reference											
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)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)
0.00	0.00	0.00	0.00	0.00		124.34	-22.57	33.04	40.81		
100.00	100.00	92.00	92.00	0.10		124.34	-22.57	33.04	40.02	39.92	0.10
200.00	200.00	192.00	192.00	0.32		124.34	-22.57	33.04	40.02	39.70	0.32
300.00	299.95	291.95	291.95	0.53		-97.95	-22.57	33.04	40.30	39.77	0.53
400.00	399.63	391.63	391.63	0.75		-108.49	-22.57	33.04	42.11	41.35	0.75
500.00	498.77	490.77	490.77	1.04		-123.23	-22.57	33.04	47.89	46.87	1.02
600.00	597.08	589.08	589.08	1.41		-137.61	-22.57	33.04	59.92	58.62	1.30
700.00	694.31	686.31	686.31	1.86		-148.73	-22.57	33.04	78.88	77.30	1.58
800.00	790.18	782.18	782.18	2.40		-156.48	-22.57	33.04	104.37	102.51	1.86
900.00	884.43	876.43	876.43	3.04		-161.77	-22.57	33.04	135.81	133.66	2.15
1,000.00	976.81	968.81	968.81	3.78		-165.43	-22.57	33.04	172.75	170.30	2.45
1,100.00	1,067.06	1,059.06	1,059.06	4.61		-168.02	-22.57	33.04	214.86	212.08	2.78
											77.292

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

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-												Offset Well Error:	0.00 ft
WELD_DRY CREEK PAD 6 - HOWARD #1-27 EXISTING - HOWARD #1-27 EXISTING - HOWARD #1-27 EXISTING													
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
1,200.00	1,154.93	1,146.93	1,146.93	5.54		-169.90	-22.57	33.04	261.89	258.76	3.13	83.691	
1,289.05	1,230.99	1,222.99	1,222.99	6.44		-171.17	-22.57	33.04	307.74	304.28	3.46	88.967	
1,300.00	1,240.20	1,232.20	1,232.20	6.55		-171.33	-22.57	33.04	313.60	310.10	3.50	89.522	
1,400.00	1,324.38	1,316.38	1,316.38	7.61		-172.60	-22.57	33.04	367.21	363.30	3.91	93.917	
1,500.00	1,408.56	1,400.56	1,400.56	8.68		-173.54	-22.57	33.04	420.91	416.59	4.32	97.348	
1,600.00	1,492.74	1,484.74	1,484.74	9.75		-174.28	-22.57	33.04	474.68	469.93	4.74	100.082	
1,700.00	1,576.91	1,568.91	1,568.91	10.83		-174.86	-22.57	33.04	528.49	523.32	5.17	102.301	
1,800.00	1,661.09	1,653.09	1,653.09	11.90		-175.33	-22.57	33.04	582.33	576.74	5.59	104.131	
1,900.00	1,745.27	1,737.27	1,737.27	12.98		-175.73	-22.57	33.04	636.20	630.17	6.02	105.663	
2,000.00	1,829.45	1,821.45	1,821.45	14.06		-176.06	-22.57	33.04	690.08	683.63	6.45	106.961	
2,100.00	1,913.62	1,905.62	1,905.62	15.14		-176.35	-22.57	33.04	743.98	737.09	6.88	108.073	
2,200.00	1,997.80	1,989.80	1,989.80	16.22		-176.60	-22.57	33.04	797.89	790.57	7.32	109.035	
2,300.00	2,081.98	2,073.98	2,073.98	17.30		-176.81	-22.57	33.04	851.81	844.05	7.75	109.875	
2,400.00	2,166.16	2,158.16	2,158.16	18.39		-177.00	-22.57	33.04	905.73	897.55	8.19	110.615	
2,500.00	2,250.34	2,242.34	2,242.34	19.47		-177.17	-22.57	33.04	959.67	951.04	8.62	111.270	
2,600.00	2,334.51	2,326.51	2,326.51	20.55		-177.32	-22.57	33.04	1,013.60	1,004.54	9.06	111.854	
2,700.00	2,418.69	2,410.69	2,410.69	21.64		-177.46	-22.57	33.04	1,067.55	1,058.05	9.50	112.378	
2,800.00	2,502.87	2,494.87	2,494.87	22.72		-177.58	-22.57	33.04	1,121.49	1,111.55	9.94	112.850	
2,900.00	2,587.05	2,579.05	2,579.05	23.81		-177.69	-22.57	33.04	1,175.44	1,165.07	10.38	113.278	
3,000.00	2,671.23	2,663.23	2,663.23	24.89		-177.79	-22.57	33.04	1,229.39	1,218.58	10.82	113.667	
3,100.00	2,755.40	2,747.40	2,747.40	25.98		-177.88	-22.57	33.04	1,283.35	1,272.09	11.26	114.023	
3,200.00	2,839.58	2,831.58	2,831.58	27.06		-177.97	-22.57	33.04	1,337.31	1,325.61	11.69	114.349	
3,300.00	2,923.76	2,915.76	2,915.76	28.15		-178.05	-22.57	33.04	1,391.27	1,379.13	12.13	114.650	
3,400.00	3,007.94	2,999.94	2,999.94	29.23		-178.12	-22.57	33.04	1,445.23	1,432.65	12.58	114.927	
3,500.00	3,092.12	3,084.12	3,084.12	30.32		-178.19	-22.57	33.04	1,499.19	1,486.17	13.02	115.183	
3,600.00	3,176.29	3,168.29	3,168.29	31.40		-178.25	-22.57	33.04	1,553.15	1,539.70	13.46	115.421	
3,700.00	3,260.47	3,252.47	3,252.47	32.49		-178.31	-22.57	33.04	1,607.12	1,593.22	13.90	115.643	
3,800.00	3,344.65	3,336.65	3,336.65	33.57		-178.36	-22.57	33.04	1,661.08	1,646.75	14.34	115.850	
3,900.00	3,428.83	3,420.83	3,420.83	34.66		-178.42	-22.57	33.04	1,715.05	1,700.27	14.78	116.043	
3,967.71	3,485.83	3,477.83	3,477.83	35.39		-178.45	-22.57	33.04	1,751.59	1,736.52	15.08	116.167	
4,000.00	3,513.13	3,505.13	3,505.13	35.70		-178.48	-22.57	33.04	1,768.83	1,753.63	15.20	116.392	
4,100.00	3,599.18	3,591.18	3,591.18	36.47		-178.56	-22.57	33.04	1,819.74	1,804.22	15.52	117.260	
4,200.00	3,687.38	3,679.38	3,679.38	37.19		-178.63	-22.57	33.04	1,866.84	1,850.97	15.87	117.615	
4,300.00	3,777.54	3,769.54	3,769.54	37.86		-178.69	-22.57	33.04	1,910.06	1,893.88	16.18	118.062	
4,400.00	3,869.51	3,861.51	3,861.51	38.48		-178.74	-22.57	33.04	1,949.31	1,932.88	16.43	118.631	
4,500.00	3,963.10	3,955.10	3,955.10	39.04		-178.78	-22.57	33.04	1,984.50	1,967.87	16.63	119.326	
4,600.00	4,058.13	4,050.13	4,050.13	39.53		-178.81	-22.57	33.04	2,015.59	1,998.81	16.78	120.151	
4,700.00	4,154.43	4,146.43	4,146.43	39.97		-178.84	-22.57	33.04	2,042.50	2,025.63	16.86	121.114	
4,800.00	4,251.82	4,243.82	4,243.82	40.34		-178.87	-22.57	33.04	2,065.18	2,048.28	16.90	122.220	
4,900.00	4,350.10	4,342.10	4,342.10	40.65		-178.89	-22.57	33.04	2,083.59	2,066.72	16.87	123.480	
5,000.00	4,449.09	4,441.09	4,441.09	40.90		-178.90	-22.57	33.04	2,097.71	2,080.91	16.79	124.904	
5,100.00	4,548.60	4,540.60	4,540.60	41.08		-178.91	-22.57	33.04	2,107.49	2,090.83	16.66	126.505	
5,200.00	4,648.45	4,640.45	4,640.45	41.20		-178.92	-22.57	33.04	2,112.92	2,096.45	16.47	128.298	
5,274.58	4,723.01	4,715.01	4,715.01	41.25		39.66	-22.57	33.04	2,114.13	2,097.84	16.30	129.737	
5,300.00	4,748.43	4,740.43	4,740.43	41.27		39.66	-22.57	33.04	2,114.13	2,097.81	16.32	129.508	
5,400.00	4,848.43	4,840.43	4,840.43	41.31		39.66	-22.57	33.04	2,114.13	2,097.70	16.43	128.646	
5,500.00	4,948.43	4,940.43	4,940.43	41.36		39.66	-22.57	33.04	2,114.13	2,097.59	16.55	127.776	
5,600.00	5,048.43	5,040.43	5,040.43	41.41		39.66	-22.57	33.04	2,114.13	2,097.47	16.66	126.901	
5,700.00	5,148.43	5,140.43	5,140.43	41.46		39.66	-22.57	33.04	2,114.13	2,097.36	16.78	126.022	
5,800.00	5,248.43	5,240.43	5,240.43	41.51		39.66	-22.57	33.04	2,114.13	2,097.24	16.89	125.138	
5,900.00	5,348.43	5,340.43	5,340.43	41.56		39.66	-22.57	33.04	2,114.13	2,097.12	17.02	124.250	
6,000.00	5,448.43	5,440.43	5,440.43	41.61		39.66	-22.57	33.04	2,114.13	2,096.99	17.14	123.361	

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

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-													Offset Well Error:	0.00 ft
Reference														
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	
6,100.00	5,548.43	5,540.43	5,540.43	41.67		39.66	-22.57	33.04	2,114.13	2,096.87	17.26	122.469		
6,200.00	5,648.43	5,640.43	5,640.43	41.72		39.66	-22.57	33.04	2,114.13	2,096.74	17.39	121.576		
6,300.00	5,748.43	5,740.43	5,740.43	41.78		39.66	-22.57	33.04	2,114.13	2,096.61	17.52	120.682		
6,400.00	5,848.43	5,840.43	5,840.43	41.83		39.66	-22.57	33.04	2,114.13	2,096.48	17.65	119.788		
6,500.00	5,948.43	5,940.43	5,940.43	41.89		39.66	-22.57	33.04	2,114.13	2,096.35	17.78	118.895		
6,600.00	6,048.43	6,040.43	6,040.43	41.95		39.66	-22.57	33.04	2,114.13	2,096.22	17.92	118.003		
6,700.00	6,148.43	6,140.43	6,140.43	42.01		39.66	-22.57	33.04	2,114.13	2,096.08	18.05	117.113		
6,800.00	6,248.43	6,240.43	6,240.43	42.08		39.66	-22.57	33.04	2,114.13	2,095.94	18.19	116.224		
6,900.00	6,348.43	6,340.43	6,340.43	42.14		39.66	-22.57	33.04	2,114.13	2,095.80	18.33	115.339		
7,000.00	6,448.43	6,440.43	6,440.43	42.20		39.66	-22.57	33.04	2,114.13	2,095.66	18.47	114.456		
7,100.00	6,548.43	6,540.43	6,540.43	42.27		39.66	-22.57	33.04	2,114.13	2,095.52	18.61	113.577		
7,200.00	6,648.43	6,640.43	6,640.43	42.33		39.66	-22.57	33.04	2,114.13	2,095.37	18.76	112.701		
7,300.00	6,748.43	6,740.43	6,740.43	42.40		39.66	-22.57	33.04	2,114.13	2,095.23	18.90	111.830		
7,400.00	6,848.43	6,840.43	6,840.43	42.47		39.66	-22.57	33.04	2,114.13	2,095.08	19.05	110.963		
7,500.00	6,948.43	6,940.43	6,940.43	42.54		39.66	-22.57	33.04	2,114.13	2,094.93	19.20	110.100		
7,600.00	7,048.43	7,040.43	7,040.43	42.61		39.66	-22.57	33.04	2,114.13	2,094.78	19.35	109.243		
7,700.00	7,148.43	7,140.43	7,140.43	42.68		39.66	-22.57	33.04	2,114.13	2,094.63	19.50	108.391		
7,800.00	7,248.43	7,240.43	7,240.43	42.75		39.66	-22.57	33.04	2,114.13	2,094.47	19.66	107.545		
7,900.00	7,348.43	7,340.43	7,340.43	42.83		39.66	-22.57	33.04	2,114.13	2,094.32	19.81	106.705		
8,000.00	7,448.43	7,440.43	7,440.43	42.90		39.66	-22.57	33.04	2,114.13	2,094.16	19.97	105.870		
8,100.00	7,548.43	7,540.43	7,540.43	42.98		39.66	-22.57	33.04	2,114.13	2,094.00	20.13	105.042		
8,200.00	7,648.43	7,640.43	7,640.43	43.06		39.66	-22.57	33.04	2,114.13	2,093.85	20.29	104.220		
8,300.00	7,748.43	7,740.43	7,740.43	43.13		39.66	-22.57	33.04	2,114.13	2,093.69	20.45	103.404		
8,400.00	7,848.43	7,840.43	7,840.43	43.21		39.66	-22.57	33.04	2,114.13	2,093.52	20.61	102.596		
8,416.58	7,865.02	7,857.02	7,857.02	43.23		39.66	-22.57	33.04	2,114.13	2,093.50	20.63	102.462		

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 6 - P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN #1 10-27-09 RH												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	-52.02	10.93	-14.00	17.76				
100.00	100.00	100.00	100.00	0.10	0.10	-52.02	10.93	-14.00	17.76	17.57	0.19	92.982	
200.00	200.00	200.00	200.00	0.32	0.32	-52.02	10.93	-14.00	17.76	17.12	0.64	27.732	
232.24	232.24	232.24	232.24	0.39	0.39	90.28	10.93	-14.00	17.76	16.98	0.78	22.801 CC	
300.00	299.95	299.95	299.95	0.53	0.54	97.79	10.93	-14.00	17.93	16.86	1.07	16.744 ES	
400.00	399.63	399.63	399.63	0.75	0.77	119.92	10.93	-14.00	20.52	19.01	1.51	13.557	
500.00	498.77	498.77	498.77	1.04	0.99	142.37	10.93	-14.00	29.32	27.36	1.97	14.918	
600.00	597.08	597.08	597.08	1.41	1.21	156.39	10.93	-14.00	45.19	42.78	2.41	18.776	
700.00	694.31	694.31	694.31	1.86	1.43	164.18	10.93	-14.00	67.28	64.43	2.85	23.636	
800.00	790.18	790.18	790.18	2.40	1.65	168.68	10.93	-14.00	94.97	91.68	3.29	28.865	
900.00	884.43	884.43	884.43	3.04	1.86	171.46	10.93	-14.00	127.91	124.17	3.74	34.217	
1,000.00	976.81	976.81	976.81	3.78	2.07	173.28	10.93	-14.00	165.88	161.69	4.19	39.591	
1,100.00	1,067.06	1,067.06	1,067.06	4.61	2.27	174.52	10.93	-14.00	208.73	204.09	4.64	44.942	
1,200.00	1,154.93	1,154.93	1,154.93	5.54	2.47	175.41	10.93	-14.00	256.30	251.20	5.10	50.252	
1,289.05	1,230.99	1,230.99	1,230.99	6.44	2.64	176.00	10.93	-14.00	302.52	297.01	5.51	54.943	
1,300.00	1,240.20	1,240.20	1,240.20	6.55	2.66	176.08	10.93	-14.00	308.42	302.85	5.57	55.391	
1,400.00	1,324.38	1,333.53	1,333.52	7.61	2.85	176.60	10.43	-15.11	361.38	355.24	6.14	58.855	
1,500.00	1,408.56	1,431.31	1,431.19	8.68	3.03	176.75	8.55	-19.22	411.88	405.16	6.72	61.256	
1,600.00	1,492.74	1,532.47	1,532.01	9.75	3.24	176.61	5.16	-26.66	459.76	452.42	7.33	62.717	
1,700.00	1,576.91	1,636.93	1,635.76	10.83	3.48	176.27	0.10	-37.74	504.88	496.92	7.96	63.406	
1,800.00	1,661.09	1,744.57	1,742.12	11.90	3.75	175.75	-6.74	-52.75	547.14	538.51	8.62	63.437	
1,900.00	1,745.27	1,855.21	1,850.72	12.98	4.08	175.08	-15.50	-71.95	586.44	577.12	9.33	62.888	
2,000.00	1,829.45	1,968.64	1,961.13	14.06	4.48	174.27	-26.28	-95.58	622.70	612.63	10.07	61.814	
2,100.00	1,913.62	2,084.60	2,072.84	15.14	4.96	173.32	-39.17	-123.83	655.86	644.97	10.88	60.259	
2,200.00	1,997.80	2,202.77	2,185.31	16.22	5.54	172.24	-54.22	-156.82	685.88	674.10	11.77	58.259	
2,300.00	2,081.98	2,322.82	2,297.92	17.30	6.23	171.02	-71.47	-194.63	712.74	699.98	12.77	55.833	
2,400.00	2,166.16	2,444.36	2,410.06	18.39	7.04	169.67	-90.91	-237.25	736.47	722.59	13.88	53.069	
2,500.00	2,250.34	2,566.96	2,521.07	19.47	7.97	168.17	-112.51	-284.59	757.12	741.98	15.13	50.036	
2,600.00	2,334.51	2,690.20	2,630.30	20.55	9.02	166.53	-136.18	-336.48	774.76	758.21	16.55	46.812	
2,700.00	2,418.69	2,803.28	2,728.41	21.64	10.08	164.90	-159.51	-387.62	789.79	771.73	18.06	43.738	
2,800.00	2,502.87	2,900.25	2,812.13	22.72	11.03	163.52	-179.82	-432.14	804.69	785.17	19.51	41.239	
2,900.00	2,587.05	2,997.21	2,895.84	23.81	11.99	162.18	-200.13	-476.66	820.04	799.01	21.03	38.987	
3,000.00	2,671.23	3,094.18	2,979.56	24.89	12.97	160.90	-220.44	-521.18	835.83	813.21	22.61	36.962	
3,100.00	2,755.40	3,191.15	3,063.27	25.98	13.95	159.66	-240.75	-565.69	852.02	827.78	24.25	35.142	
3,200.00	2,839.58	3,288.12	3,146.99	27.06	14.94	158.47	-261.05	-610.21	868.60	842.68	25.92	33.505	
3,300.00	2,923.76	3,385.08	3,230.71	28.15	15.94	157.32	-281.36	-654.73	885.55	857.90	27.65	32.030	
3,400.00	3,007.94	3,482.05	3,314.42	29.23	16.94	156.22	-301.67	-699.25	902.84	873.43	29.41	30.699	
3,500.00	3,092.12	3,579.02	3,398.14	30.32	17.95	155.15	-321.98	-743.77	920.45	889.25	31.21	29.497	
3,600.00	3,176.29	3,675.99	3,481.85	31.40	18.96	154.12	-342.29	-788.29	938.37	905.34	33.03	28.407	
3,700.00	3,260.47	3,772.95	3,565.57	32.49	19.97	153.13	-362.60	-832.81	956.58	921.69	34.89	27.418	
3,800.00	3,344.65	3,869.92	3,649.28	33.57	20.99	152.18	-382.91	-877.33	975.06	938.29	36.77	26.519	
3,900.00	3,428.83	3,966.89	3,733.00	34.66	22.01	151.26	-403.22	-921.85	993.80	955.12	38.67	25.698	
3,967.71	3,485.83	4,032.55	3,789.68	35.39	22.70	150.66	-416.97	-951.99	1,006.62	966.65	39.97	25.183	
4,000.00	3,513.13	4,063.87	3,816.73	35.70	23.03	150.45	-423.53	-966.38	1,012.58	971.97	40.61	24.931	
4,100.00	3,599.18	4,161.08	3,900.66	36.47	24.05	149.70	-443.89	-1,011.01	1,028.75	986.17	42.58	24.161	
4,200.00	3,687.38	4,258.43	3,984.70	37.19	25.08	148.83	-464.28	-1,055.70	1,041.50	996.86	44.64	23.332	
4,300.00	3,777.54	4,355.73	4,068.70	37.86	26.11	147.82	-484.66	-1,100.37	1,050.93	1,004.18	46.75	22.481	
4,400.00	3,869.51	4,452.79	4,152.49	38.48	27.13	146.68	-504.99	-1,144.93	1,057.14	1,008.24	48.90	21.616	
4,500.00	3,963.10	4,549.43	4,235.93	39.04	28.16	145.39	-525.23	-1,189.30	1,060.28	1,009.17	51.11	20.746	
4,600.00	4,058.13	4,645.47	4,318.84	39.53	29.17	143.94	-545.34	-1,233.39	1,060.49	1,007.13	53.36	19.876	
4,700.00	4,154.43	4,740.72	4,401.08	39.97	30.18	142.34	-565.29	-1,277.13	1,057.98	1,002.33	55.65	19.013	
4,800.00	4,251.82	4,835.01	4,482.48	40.34	31.19	140.58	-585.04	-1,320.41	1,052.96	994.99	57.97	18.164	

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

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 6 - P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN #1 10-27-09 RH												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
4,900.00	4,350.10	4,928.15	4,562.89	40.65	32.17	138.64	-604.55	-1,363.18	1,045.70	985.38	60.32	17.336	
5,000.00	4,449.09	5,019.96	4,642.15	40.90	33.15	136.52	-623.78	-1,405.33	1,036.49	973.80	62.68	16.535	
5,100.00	4,548.60	5,110.28	4,720.13	41.08	34.11	134.22	-642.70	-1,446.79	1,025.68	960.64	65.04	15.770	
5,200.00	4,648.45	5,198.92	4,796.66	41.20	35.05	131.74	-661.26	-1,487.49	1,013.66	946.29	67.36	15.047	
5,274.58	4,723.01	5,263.84	4,852.70	41.25	35.74	-11.65	-674.86	-1,517.30	1,004.17	935.11	69.06	14.540	
5,300.00	4,748.43	5,285.79	4,871.65	41.27	35.98	-12.27	-679.46	-1,527.37	1,000.96	931.34	69.62	14.377	
5,400.00	4,848.43	5,367.57	4,942.65	41.31	36.76	-14.58	-696.30	-1,564.30	990.03	918.47	71.56	13.835	
5,500.00	4,948.43	5,450.80	5,016.04	41.36	37.45	-16.84	-712.59	-1,600.00	981.85	908.54	73.31	13.393	
5,600.00	5,048.43	5,536.59	5,092.85	41.41	38.10	-19.06	-728.44	-1,634.76	976.16	901.25	74.91	13.032	
5,700.00	5,148.43	5,624.92	5,173.09	41.46	38.72	-21.23	-743.76	-1,668.34	972.64	896.28	76.37	12.736	
5,800.00	5,248.43	5,715.71	5,256.73	41.51	39.32	-23.31	-758.43	-1,700.50	970.98	893.29	77.69	12.499	
5,860.54	5,308.97	5,771.84	5,308.97	41.54	39.67	-24.52	-766.95	-1,719.16	970.73	892.32	78.41	12.380	
5,900.00	5,348.43	5,808.90	5,343.67	41.56	39.89	-25.29	-772.34	-1,730.97	970.82	891.97	78.86	12.311	
6,000.00	5,448.43	5,904.36	5,433.83	41.61	40.43	-27.14	-785.36	-1,759.51	971.85	891.97	79.88	12.166	
6,100.00	5,548.43	6,001.96	5,527.03	41.67	40.92	-28.84	-797.37	-1,785.85	973.72	892.96	80.77	12.056	
6,200.00	5,648.43	6,101.54	5,623.09	41.72	41.37	-30.38	-808.26	-1,809.73	976.15	894.63	81.52	11.975	
6,300.00	5,748.43	6,202.91	5,721.75	41.78	41.78	-31.73	-817.92	-1,830.90	978.83	896.68	82.14	11.916	
6,400.00	5,848.43	6,305.87	5,822.73	41.83	42.13	-32.89	-826.24	-1,849.14	981.52	898.86	82.66	11.874	
6,500.00	5,948.43	6,410.18	5,925.70	41.89	42.43	-33.85	-833.13	-1,864.24	984.00	900.91	83.08	11.844	
6,600.00	6,048.43	6,515.58	6,030.30	41.95	42.68	-34.59	-838.51	-1,876.02	986.08	902.66	83.42	11.821	
6,700.00	6,148.43	6,621.80	6,136.12	42.01	42.87	-35.12	-842.31	-1,884.35	987.64	903.95	83.69	11.802	
6,800.00	6,248.43	6,728.56	6,242.74	42.08	43.00	-35.41	-844.48	-1,889.12	988.55	904.66	83.89	11.784	
6,900.00	6,348.43	6,834.26	6,348.43	42.14	43.09	-35.49	-845.03	-1,890.33	988.79	904.75	84.04	11.765	
7,000.00	6,448.43	6,934.26	6,448.43	42.20	43.15	-35.49	-845.03	-1,890.33	988.79	904.61	84.17	11.747	
7,100.00	6,548.43	7,034.26	6,548.43	42.27	43.22	-35.49	-845.03	-1,890.33	988.79	904.48	84.31	11.728	
7,200.00	6,648.43	7,134.26	6,648.43	42.33	43.29	-35.49	-845.03	-1,890.33	988.79	904.34	84.45	11.709	
7,300.00	6,748.43	7,234.26	6,748.43	42.40	43.36	-35.49	-845.03	-1,890.33	988.79	904.20	84.59	11.689	
7,400.00	6,848.43	7,334.26	6,848.43	42.47	43.43	-35.49	-845.03	-1,890.33	988.79	904.06	84.73	11.669	
7,500.00	6,948.43	7,434.26	6,948.43	42.54	43.50	-35.49	-845.03	-1,890.33	988.79	903.91	84.88	11.650	
7,600.00	7,048.43	7,534.26	7,048.43	42.61	43.57	-35.49	-845.03	-1,890.33	988.79	903.76	85.03	11.629	
7,700.00	7,148.43	7,634.26	7,148.43	42.68	43.65	-35.49	-845.03	-1,890.33	988.79	903.61	85.17	11.609	
7,800.00	7,248.43	7,734.26	7,248.43	42.75	43.72	-35.49	-845.03	-1,890.33	988.79	903.46	85.33	11.588	
7,900.00	7,348.43	7,834.26	7,348.43	42.83	43.80	-35.49	-845.03	-1,890.33	988.79	903.31	85.48	11.568	
8,000.00	7,448.43	7,934.26	7,448.43	42.90	43.88	-35.49	-845.03	-1,890.33	988.79	903.15	85.64	11.547	
8,100.00	7,548.43	8,034.26	7,548.43	42.98	43.96	-35.49	-845.03	-1,890.33	988.79	903.00	85.79	11.525	
8,200.00	7,648.43	8,134.26	7,648.43	43.06	44.04	-35.49	-845.03	-1,890.33	988.79	902.84	85.95	11.504	
8,300.00	7,748.43	8,234.26	7,748.43	43.13	44.12	-35.49	-845.03	-1,890.33	988.79	902.67	86.11	11.482	
8,400.00	7,848.43	8,334.26	7,848.43	43.21	44.20	-35.49	-845.03	-1,890.33	988.79	902.51	86.28	11.460	
8,416.58	7,865.02	8,350.84	7,865.02	43.23	44.21	-35.49	-845.03	-1,890.33	988.79	902.48	86.31	11.457 SF	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	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	-56.93	18.23	-28.00	33.42				
100.00	100.00	100.00	100.00	0.10	0.10	-56.93	18.23	-28.00	33.42	33.23	0.19	174.914	
200.00	200.00	200.00	200.00	0.32	0.32	-56.93	18.23	-28.00	33.42	32.78	0.64	52.167	
300.00	299.95	299.95	299.95	0.53	0.54	88.98	18.23	-28.00	33.27	32.20	1.07	31.073	
310.71	310.65	310.65	310.65	0.55	0.57	90.00	18.23	-28.00	33.26	32.14	1.12	29.742 CC, ES	
400.00	399.63	399.63	399.63	0.75	0.77	102.24	18.23	-28.00	34.05	32.53	1.52	22.408	
500.00	498.77	498.77	498.77	1.04	0.99	121.09	18.23	-28.00	38.97	36.97	2.00	19.445 SF	
600.00	597.08	597.08	597.08	1.41	1.21	138.57	18.23	-28.00	50.90	48.42	2.48	20.528	
700.00	694.31	694.31	694.31	1.86	1.43	150.90	18.23	-28.00	70.24	67.31	2.93	23.968	
800.00	790.18	790.18	790.18	2.40	1.65	158.82	18.23	-28.00	96.20	92.83	3.37	28.524	
900.00	884.43	884.43	884.43	3.04	1.86	163.92	18.23	-28.00	128.04	124.22	3.82	33.562	
1,000.00	976.81	976.81	976.81	3.78	2.07	167.33	18.23	-28.00	165.29	161.03	4.26	38.792	
1,100.00	1,067.06	1,067.06	1,067.06	4.61	2.27	169.68	18.23	-28.00	207.64	202.93	4.71	44.080	
1,200.00	1,154.93	1,154.93	1,154.93	5.54	2.47	171.36	18.23	-28.00	254.84	249.68	5.16	49.368	
1,289.05	1,230.99	1,230.99	1,230.99	6.44	2.64	172.47	18.23	-28.00	300.82	295.25	5.57	54.055	
1,300.00	1,240.20	1,240.20	1,240.20	6.55	2.66	172.62	18.23	-28.00	306.69	301.06	5.63	54.512	
1,400.00	1,324.38	1,331.34	1,331.33	7.61	2.85	173.64	18.04	-29.14	359.68	353.49	6.19	58.094	
1,500.00	1,408.56	1,425.94	1,425.83	8.68	3.03	174.05	17.32	-33.33	410.83	404.06	6.77	60.642	
1,600.00	1,492.74	1,523.15	1,522.73	9.75	3.24	174.03	16.03	-40.83	460.00	452.62	7.39	62.287	
1,700.00	1,576.91	1,622.83	1,621.78	10.83	3.47	173.70	14.13	-51.88	507.12	499.09	8.03	63.182	
1,800.00	1,661.09	1,724.84	1,722.67	11.90	3.73	173.13	11.57	-66.70	552.12	543.42	8.71	63.425	
1,900.00	1,745.27	1,828.99	1,825.05	12.98	4.03	172.34	8.34	-85.47	595.00	585.56	9.43	63.080	
2,000.00	1,829.45	1,935.06	1,928.55	14.06	4.39	171.38	4.41	-108.34	635.74	625.52	10.22	62.194	
2,100.00	1,913.62	2,036.49	2,026.70	15.14	4.78	170.35	0.07	-133.52	674.53	663.48	11.06	60.999	
2,200.00	1,997.80	2,128.24	2,115.32	16.22	5.17	169.47	-3.96	-156.97	713.05	701.15	11.90	59.935	
2,300.00	2,081.98	2,220.00	2,203.94	17.30	5.58	168.68	-8.00	-180.41	751.70	738.94	12.76	58.904	
2,400.00	2,166.16	2,311.76	2,292.56	18.39	6.01	167.97	-12.04	-203.85	790.46	776.81	13.65	57.921	
2,500.00	2,250.34	2,403.51	2,381.18	19.47	6.45	167.32	-16.07	-227.29	829.31	814.76	14.55	56.993	
2,600.00	2,334.51	2,495.27	2,469.80	20.55	6.89	166.73	-20.11	-250.73	868.25	852.77	15.47	56.121	
2,700.00	2,418.69	2,587.02	2,558.42	21.64	7.35	166.20	-24.14	-274.17	907.25	890.85	16.40	55.306	
2,800.00	2,502.87	2,678.78	2,647.04	22.72	7.81	165.70	-28.18	-297.61	946.32	928.97	17.35	54.547	
2,900.00	2,587.05	2,770.54	2,735.66	23.81	8.28	165.25	-32.21	-321.06	985.45	967.14	18.30	53.841	
3,000.00	2,671.23	2,862.29	2,824.28	24.89	8.75	164.83	-36.25	-344.50	1,024.62	1,005.35	19.27	53.184	
3,100.00	2,755.40	2,954.05	2,912.90	25.98	9.23	164.44	-40.28	-367.94	1,063.84	1,043.60	20.24	52.572	
3,200.00	2,839.58	3,045.81	3,001.52	27.06	9.71	164.08	-44.32	-391.38	1,103.09	1,081.88	21.21	52.002	
3,300.00	2,923.76	3,137.56	3,090.14	28.15	10.19	163.74	-48.35	-414.82	1,142.38	1,120.19	22.19	51.471	
3,400.00	3,007.94	3,229.32	3,178.76	29.23	10.68	163.42	-52.39	-438.26	1,181.70	1,158.52	23.18	50.975	
3,500.00	3,092.12	3,321.07	3,267.38	30.32	11.17	163.13	-56.42	-461.70	1,221.05	1,196.88	24.17	50.511	
3,600.00	3,176.29	3,412.83	3,355.99	31.40	11.66	162.85	-60.46	-485.15	1,260.43	1,235.26	25.17	50.076	
3,700.00	3,260.47	3,504.59	3,444.61	32.49	12.15	162.59	-64.49	-508.59	1,299.83	1,273.66	26.17	49.669	
3,800.00	3,344.65	3,596.34	3,533.23	33.57	12.64	162.35	-68.53	-532.03	1,339.25	1,312.08	27.17	49.286	
3,900.00	3,428.83	3,688.10	3,621.85	34.66	13.13	162.12	-72.56	-555.47	1,378.69	1,350.51	28.18	48.927	
3,967.71	3,485.83	3,750.23	3,681.86	35.39	13.47	161.97	-75.30	-571.34	1,405.40	1,376.54	28.86	48.695	
4,000.00	3,513.13	3,779.94	3,710.55	35.70	13.63	162.00	-76.60	-578.93	1,417.95	1,388.73	29.21	48.535	
4,100.00	3,599.18	3,872.91	3,800.35	36.47	14.13	162.05	-80.69	-602.68	1,454.26	1,423.99	30.27	48.042	
4,200.00	3,687.38	3,967.22	3,891.43	37.19	14.65	162.02	-84.84	-626.78	1,486.71	1,455.40	31.31	47.481	
4,300.00	3,777.54	4,062.67	3,983.62	37.86	15.16	161.91	-89.04	-651.16	1,515.25	1,482.92	32.33	46.865	
4,400.00	3,869.51	4,159.10	4,076.75	38.48	15.69	161.73	-93.28	-675.80	1,539.84	1,506.51	33.33	46.200	
4,500.00	3,963.10	4,256.31	4,170.64	39.04	16.22	161.48	-97.55	-700.63	1,560.48	1,526.17	34.30	45.492	
4,600.00	4,058.13	4,354.12	4,265.10	39.53	16.75	161.16	-101.85	-725.62	1,577.13	1,541.88	35.25	44.745	
4,700.00	4,154.43	4,452.34	4,359.97	39.97	17.29	160.77	-106.17	-750.71	1,589.81	1,553.65	36.16	43.961	
4,800.00	4,251.82	4,550.79	4,455.05	40.34	17.83	160.30	-110.50	-775.86	1,598.53	1,561.48	37.05	43.141	

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

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	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	
4,900.00	4,350.10	4,649.28	4,550.17	40.65	18.37	159.75	-114.83	-801.03	1,603.31	1,565.39	37.92	42.285	
5,000.00	4,449.09	4,747.62	4,645.15	40.90	18.90	159.13	-119.16	-826.15	1,604.18	1,565.42	38.76	41.391	
5,100.00	4,548.60	4,845.62	4,739.81	41.08	19.44	158.41	-123.47	-851.19	1,601.20	1,561.62	39.58	40.458	
5,200.00	4,648.45	4,943.11	4,833.96	41.20	19.98	157.60	-127.76	-876.09	1,594.43	1,554.05	40.38	39.484	
5,274.58	4,723.01	5,015.35	4,903.74	41.25	20.37	15.51	-130.93	-894.55	1,586.96	1,545.98	40.98	38.727	
5,300.00	4,748.43	5,039.91	4,927.45	41.27	20.51	15.30	-132.01	-900.82	1,584.07	1,542.84	41.23	38.420	
5,400.00	4,848.43	5,136.49	5,020.73	41.31	21.04	14.47	-136.26	-925.50	1,572.94	1,530.71	42.23	37.247	
5,500.00	4,948.43	5,233.07	5,114.01	41.36	21.57	13.63	-140.51	-950.17	1,562.17	1,518.93	43.24	36.127	
5,600.00	5,048.43	5,329.65	5,207.29	41.41	22.10	12.78	-144.76	-974.84	1,551.75	1,507.48	44.26	35.057	
5,700.00	5,148.43	5,426.24	5,300.57	41.46	22.63	11.92	-149.00	-999.52	1,541.69	1,496.40	45.30	34.035	
5,800.00	5,248.43	5,522.82	5,393.85	41.51	23.17	11.04	-153.25	-1,024.19	1,532.01	1,485.67	46.34	33.061	
5,900.00	5,348.43	5,619.40	5,487.13	41.56	23.70	10.16	-157.50	-1,048.87	1,522.71	1,475.32	47.39	32.131	
6,000.00	5,448.43	5,715.98	5,580.41	41.61	24.23	9.26	-161.74	-1,073.54	1,513.80	1,465.35	48.45	31.244	
6,100.00	5,548.43	5,800.01	5,661.86	41.67	24.62	8.52	-165.25	-1,093.89	1,505.71	1,456.41	49.30	30.540	
6,200.00	5,648.43	5,882.65	5,742.52	41.72	24.92	7.86	-168.30	-1,111.60	1,498.85	1,448.83	50.02	29.966	
6,300.00	5,748.43	5,967.44	5,825.78	41.78	25.19	7.28	-171.01	-1,127.37	1,493.12	1,442.44	50.68	29.463	
6,400.00	5,848.43	6,053.13	5,910.37	41.83	25.44	6.77	-173.33	-1,140.84	1,488.46	1,437.19	51.27	29.032	
6,500.00	5,948.43	6,139.57	5,996.08	41.89	25.65	6.36	-175.23	-1,151.90	1,484.78	1,432.99	51.79	28.670	
6,600.00	6,048.43	6,226.62	6,082.69	41.95	25.84	6.04	-176.71	-1,160.45	1,482.02	1,429.79	52.23	28.374	
6,700.00	6,148.43	6,314.12	6,169.97	42.01	26.00	5.81	-177.74	-1,166.43	1,480.14	1,427.55	52.60	28.141	
6,800.00	6,248.43	6,400.01	6,255.80	42.08	26.12	5.69	-178.31	-1,169.75	1,479.10	1,426.22	52.88	27.971	
6,900.00	6,348.43	6,492.65	6,348.43	42.14	26.22	5.65	-178.45	-1,170.57	1,478.86	1,425.77	53.10	27.852	
7,000.00	6,448.43	6,592.65	6,448.43	42.20	26.33	5.65	-178.45	-1,170.57	1,478.86	1,425.55	53.31	27.741	
7,100.00	6,548.43	6,692.65	6,548.43	42.27	26.44	5.65	-178.45	-1,170.57	1,478.86	1,425.34	53.53	27.628	
7,200.00	6,648.43	6,792.65	6,648.43	42.33	26.56	5.65	-178.45	-1,170.57	1,478.86	1,425.12	53.75	27.515	
7,300.00	6,748.43	6,892.65	6,748.43	42.40	26.68	5.65	-178.45	-1,170.57	1,478.86	1,424.89	53.97	27.401	
7,400.00	6,848.43	6,992.65	6,848.43	42.47	26.79	5.65	-178.45	-1,170.57	1,478.86	1,424.67	54.20	27.287	
7,500.00	6,948.43	7,092.65	6,948.43	42.54	26.91	5.65	-178.45	-1,170.57	1,478.86	1,424.44	54.42	27.173	
7,600.00	7,048.43	7,192.65	7,048.43	42.61	27.03	5.65	-178.45	-1,170.57	1,478.86	1,424.21	54.66	27.058	
7,700.00	7,148.43	7,292.65	7,148.43	42.68	27.16	5.65	-178.45	-1,170.57	1,478.86	1,423.97	54.89	26.942	
7,800.00	7,248.43	7,392.65	7,248.43	42.75	27.28	5.65	-178.45	-1,170.57	1,478.86	1,423.74	55.13	26.827	
7,900.00	7,348.43	7,492.65	7,348.43	42.83	27.40	5.65	-178.45	-1,170.57	1,478.86	1,423.50	55.37	26.711	
8,000.00	7,448.43	7,592.65	7,448.43	42.90	27.53	5.65	-178.45	-1,170.57	1,478.86	1,423.26	55.61	26.595	
8,100.00	7,548.43	7,692.65	7,548.43	42.98	27.66	5.65	-178.45	-1,170.57	1,478.86	1,423.01	55.85	26.478	
8,200.00	7,648.43	7,792.65	7,648.43	43.06	27.78	5.65	-178.45	-1,170.57	1,478.86	1,422.76	56.10	26.362	
8,300.00	7,748.43	7,892.65	7,748.43	43.13	27.91	5.65	-178.45	-1,170.57	1,478.86	1,422.52	56.35	26.245	
8,400.00	7,848.43	7,992.65	7,848.43	43.21	28.04	5.65	-178.45	-1,170.57	1,478.86	1,422.26	56.60	26.128	
8,416.58	7,865.02	8,009.23	7,865.02	43.23	28.07	5.65	-178.45	-1,170.57	1,478.86	1,422.22	56.64	26.109	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	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						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	-53.37	29.15	-39.21	48.85				
100.00	100.00	100.00	100.00	0.10	0.10	-53.37	29.15	-39.21	48.85	48.66	0.19	255.704	
200.00	200.00	200.00	200.00	0.32	0.32	-53.37	29.15	-39.21	48.85	48.21	0.64	76.262	
279.71	279.69	279.69	279.69	0.48	0.50	90.00	29.15	-39.21	48.82	47.84	0.98	49.652 CC	
300.00	299.95	299.95	299.95	0.53	0.54	91.12	29.15	-39.21	48.83	47.76	1.07	45.610 ES	
400.00	399.63	399.63	399.63	0.75	0.77	100.16	29.15	-39.21	49.61	48.09	1.52	32.645	
500.00	498.77	498.77	498.77	1.04	0.99	113.85	29.15	-39.21	53.49	51.48	2.01	26.547	
600.00	597.08	597.08	597.08	1.41	1.21	128.76	29.15	-39.21	63.16	60.64	2.52	25.039 SF	
700.00	694.31	694.31	694.31	1.86	1.43	141.44	29.15	-39.21	80.03	77.03	3.01	26.617	
800.00	790.18	790.18	790.18	2.40	1.65	150.79	29.15	-39.21	103.99	100.52	3.47	30.001	
900.00	884.43	884.43	884.43	3.04	1.86	157.33	29.15	-39.21	134.37	130.46	3.91	34.331	
1,000.00	976.81	976.81	976.81	3.78	2.07	161.89	29.15	-39.21	170.59	166.23	4.36	39.130	
1,100.00	1,067.06	1,067.06	1,067.06	4.61	2.27	165.14	29.15	-39.21	212.19	207.39	4.81	44.148	
1,200.00	1,154.93	1,154.93	1,154.93	5.54	2.47	167.50	29.15	-39.21	258.86	253.60	5.26	49.258	
1,289.05	1,230.99	1,230.99	1,230.99	6.44	2.64	169.08	29.15	-39.21	304.46	298.80	5.66	53.832	
1,300.00	1,240.20	1,240.20	1,240.20	6.55	2.66	169.28	29.15	-39.21	310.29	304.58	5.72	54.289	
1,400.00	1,324.38	1,322.87	1,322.86	7.61	2.84	170.66	29.74	-39.91	363.85	357.59	6.27	58.039	
1,500.00	1,408.56	1,405.13	1,405.06	8.68	3.02	171.31	31.86	-42.41	417.90	411.06	6.84	61.075	
1,600.00	1,492.74	1,487.06	1,486.79	9.75	3.20	171.48	35.47	-46.69	472.34	464.90	7.44	63.514	
1,700.00	1,576.91	1,568.52	1,567.86	10.83	3.39	171.31	40.56	-52.72	527.14	519.09	8.05	65.456	
1,800.00	1,661.09	1,649.94	1,648.65	11.90	3.59	170.91	47.09	-60.46	582.31	573.62	8.69	66.980	
1,900.00	1,745.27	1,733.18	1,731.15	12.98	3.80	170.50	54.23	-68.91	637.62	628.27	9.36	68.154	
2,000.00	1,829.45	1,816.41	1,813.64	14.06	4.03	170.15	61.37	-77.37	692.95	682.93	10.03	69.117	
2,100.00	1,913.62	1,899.64	1,896.13	15.14	4.25	169.85	68.51	-85.82	748.30	737.59	10.70	69.913	
2,200.00	1,997.80	1,982.87	1,978.62	16.22	4.49	169.59	75.65	-94.27	803.65	792.26	11.39	70.572	
2,300.00	2,081.98	2,066.10	2,061.11	17.30	4.73	169.37	82.79	-102.73	859.02	846.94	12.08	71.128	
2,400.00	2,166.16	2,149.33	2,143.60	18.39	4.97	169.18	89.93	-111.18	914.39	901.62	12.77	71.600	
2,500.00	2,250.34	2,232.56	2,226.09	19.47	5.22	169.00	97.07	-119.64	969.77	956.31	13.47	72.005	
2,600.00	2,334.51	2,315.79	2,308.59	20.55	5.47	168.85	104.20	-128.09	1,025.16	1,010.99	14.17	72.353	
2,700.00	2,418.69	2,399.02	2,391.08	21.64	5.72	168.71	111.34	-136.55	1,080.55	1,065.68	14.87	72.655	
2,800.00	2,502.87	2,482.25	2,473.57	22.72	5.97	168.58	118.48	-145.00	1,135.95	1,120.37	15.58	72.918	
2,900.00	2,587.05	2,565.48	2,556.06	23.81	6.23	168.47	125.62	-153.45	1,191.34	1,175.06	16.29	73.148	
3,000.00	2,671.23	2,648.71	2,638.55	24.89	6.49	168.36	132.76	-161.91	1,246.75	1,229.75	17.00	73.352	
3,100.00	2,755.40	2,731.94	2,721.04	25.98	6.75	168.27	139.90	-170.36	1,302.15	1,284.44	17.71	73.533	
3,200.00	2,839.58	2,815.17	2,803.54	27.06	7.01	168.18	147.04	-178.82	1,357.56	1,339.14	18.42	73.694	
3,300.00	2,923.76	2,898.40	2,886.03	28.15	7.27	168.10	154.18	-187.27	1,412.97	1,393.83	19.14	73.838	
3,400.00	3,007.94	2,981.63	2,968.52	29.23	7.54	168.03	161.32	-195.72	1,468.38	1,448.52	19.85	73.967	
3,500.00	3,092.12	3,064.86	3,051.01	30.32	7.80	167.96	168.46	-204.18	1,523.79	1,503.22	20.57	74.084	
3,600.00	3,176.29	3,148.09	3,133.50	31.40	8.07	167.89	175.59	-212.63	1,579.20	1,557.91	21.29	74.189	
3,700.00	3,260.47	3,231.32	3,215.99	32.49	8.34	167.83	182.73	-221.09	1,634.61	1,612.61	22.00	74.285	
3,800.00	3,344.65	3,314.55	3,298.48	33.57	8.60	167.78	189.87	-229.54	1,690.03	1,667.31	22.72	74.373	
3,900.00	3,428.83	3,397.78	3,380.98	34.66	8.87	167.72	197.01	-238.00	1,745.45	1,722.00	23.44	74.452	
3,967.71	3,485.83	3,454.14	3,436.83	35.39	9.05	167.69	201.85	-243.72	1,782.97	1,759.04	23.93	74.502	
4,000.00	3,513.13	3,481.13	3,463.59	35.70	9.14	167.79	204.16	-246.46	1,800.68	1,776.47	24.21	74.391	
4,100.00	3,599.18	3,566.23	3,547.93	36.47	9.41	168.03	211.46	-255.11	1,853.14	1,828.13	25.01	74.083	
4,200.00	3,687.38	3,653.47	3,634.40	37.19	9.70	168.22	218.94	-263.97	1,901.92	1,876.13	25.79	73.741	
4,300.00	3,777.54	3,742.68	3,722.81	37.86	9.99	168.35	226.59	-273.03	1,946.94	1,920.41	26.53	73.378	
4,400.00	3,869.51	3,833.68	3,813.00	38.48	10.28	168.43	234.40	-282.27	1,988.11	1,960.88	27.23	73.003	
4,500.00	3,963.10	3,926.31	3,904.81	39.04	10.58	168.46	242.34	-291.68	2,025.37	1,997.48	27.89	72.623	
4,600.00	4,058.13	4,020.38	3,998.05	39.53	10.89	168.45	250.41	-301.24	2,058.64	2,030.14	28.50	72.242	
4,700.00	4,154.43	4,115.73	4,092.55	39.97	11.20	168.39	258.59	-310.92	2,087.87	2,058.82	29.05	71.864	
4,800.00	4,251.82	4,212.17	4,188.13	40.34	11.52	168.29	266.86	-320.72	2,113.02	2,083.46	29.56	71.490	

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

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 6 - P_DRY CREEK 27-27 - P_DRY CREEK 27-27 - PLAN #1 10-27-09 RHS												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
4,900.00	4,350.10	4,309.51	4,284.61	40.65	11.84	168.16	275.21	-330.61	2,134.05	2,104.04	30.01	71.122	
5,000.00	4,449.09	4,407.57	4,381.80	40.90	12.16	167.98	283.62	-340.57	2,150.93	2,120.53	30.40	70.760	
5,100.00	4,548.60	4,506.16	4,479.52	41.08	12.48	167.76	292.08	-350.58	2,163.64	2,132.90	30.73	70.401	
5,200.00	4,648.45	4,605.10	4,577.57	41.20	12.81	167.49	300.57	-360.63	2,172.16	2,141.15	31.01	70.044	
5,274.58	4,723.01	4,678.99	4,650.81	41.25	13.05	25.85	306.91	-368.14	2,175.80	2,144.62	31.19	69.770	
5,300.00	4,748.43	4,704.19	4,675.79	41.27	13.13	25.76	309.07	-370.70	2,176.65	2,145.33	31.32	69.504	
5,400.00	4,848.43	4,803.30	4,774.02	41.31	13.46	25.43	317.57	-380.76	2,180.02	2,148.19	31.83	68.483	
5,500.00	4,948.43	4,902.42	4,872.25	41.36	13.79	25.09	326.07	-390.83	2,183.47	2,151.12	32.35	67.491	
5,600.00	5,048.43	5,001.53	4,970.49	41.41	14.11	24.76	334.57	-400.90	2,187.00	2,154.13	32.87	66.528	
5,700.00	5,148.43	5,100.64	5,068.72	41.46	14.44	24.43	343.07	-410.97	2,190.60	2,157.20	33.40	65.593	
5,800.00	5,248.43	5,199.75	5,166.95	41.51	14.77	24.10	351.57	-421.03	2,194.28	2,160.36	33.92	64.685	
5,900.00	5,348.43	5,298.87	5,265.19	41.56	15.09	23.77	360.07	-431.10	2,198.03	2,163.58	34.45	63.804	
6,000.00	5,448.43	5,397.98	5,363.42	41.61	15.42	23.44	368.58	-441.17	2,201.85	2,166.87	34.98	62.948	
6,100.00	5,548.43	5,497.09	5,461.65	41.67	15.75	23.11	377.08	-451.23	2,205.75	2,170.24	35.51	62.117	
6,200.00	5,648.43	5,596.20	5,559.88	41.72	16.08	22.78	385.58	-461.30	2,209.72	2,173.68	36.04	61.310	
6,300.00	5,748.43	5,695.32	5,658.12	41.78	16.40	22.46	394.08	-471.37	2,213.76	2,177.19	36.58	60.526	
6,400.00	5,848.43	5,794.43	5,756.35	41.83	16.73	22.13	402.58	-481.44	2,217.88	2,180.77	37.11	59.764	
6,500.00	5,948.43	5,893.54	5,854.58	41.89	17.06	21.81	411.08	-491.50	2,222.07	2,184.42	37.65	59.024	
6,600.00	6,048.43	6,002.35	5,962.45	41.95	17.40	21.46	420.25	-502.36	2,226.26	2,188.06	38.20	58.272	
6,700.00	6,148.43	6,135.54	6,095.02	42.01	17.70	21.15	428.54	-512.18	2,229.40	2,190.70	38.70	57.604	
6,800.00	6,248.43	6,269.66	6,228.96	42.08	17.94	20.99	432.86	-517.29	2,231.04	2,191.93	39.11	57.046	
6,900.00	6,348.43	6,389.15	6,348.43	42.14	18.12	20.96	433.51	-518.06	2,231.28	2,191.86	39.42	56.602	
7,000.00	6,448.43	6,489.15	6,448.43	42.20	18.29	20.96	433.51	-518.06	2,231.28	2,191.57	39.72	56.182	
7,100.00	6,548.43	6,589.15	6,548.43	42.27	18.46	20.96	433.51	-518.06	2,231.28	2,191.27	40.01	55.762	
7,200.00	6,648.43	6,689.15	6,648.43	42.33	18.63	20.96	433.51	-518.06	2,231.28	2,190.97	40.32	55.345	
7,300.00	6,748.43	6,789.15	6,748.43	42.40	18.80	20.96	433.51	-518.06	2,231.28	2,190.66	40.62	54.930	
7,400.00	6,848.43	6,889.15	6,848.43	42.47	18.98	20.96	433.51	-518.06	2,231.28	2,190.36	40.93	54.518	
7,500.00	6,948.43	6,989.15	6,948.43	42.54	19.15	20.96	433.51	-518.06	2,231.28	2,190.05	41.24	54.109	
7,600.00	7,048.43	7,089.15	7,048.43	42.61	19.33	20.96	433.51	-518.06	2,231.28	2,189.74	41.55	53.702	
7,700.00	7,148.43	7,189.15	7,148.43	42.68	19.50	20.96	433.51	-518.06	2,231.28	2,189.42	41.86	53.299	
7,800.00	7,248.43	7,289.15	7,248.43	42.75	19.68	20.96	433.51	-518.06	2,231.28	2,189.10	42.18	52.899	
7,900.00	7,348.43	7,389.15	7,348.43	42.83	19.86	20.96	433.51	-518.06	2,231.28	2,188.79	42.50	52.502	
8,000.00	7,448.43	7,489.15	7,448.43	42.90	20.04	20.96	433.51	-518.06	2,231.28	2,188.46	42.82	52.108	
8,100.00	7,548.43	7,589.15	7,548.43	42.98	20.22	20.96	433.51	-518.06	2,231.28	2,188.14	43.14	51.717	
8,200.00	7,648.43	7,689.15	7,648.43	43.06	20.40	20.96	433.51	-518.06	2,231.28	2,187.82	43.47	51.330	
8,300.00	7,748.43	7,789.15	7,748.43	43.13	20.58	20.96	433.51	-518.06	2,231.28	2,187.49	43.80	50.946	
8,400.00	7,848.43	7,889.15	7,848.43	43.21	20.77	20.96	433.51	-518.06	2,231.28	2,187.16	44.13	50.565	
8,416.58	7,865.02	7,905.73	7,865.02	43.23	20.80	20.96	433.51	-518.06	2,231.28	2,187.10	44.18	50.502	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	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	125.85	-18.21	25.20	31.09				
100.00	100.00	100.00	100.00	0.10	0.10	125.85	-18.21	25.20	31.09	30.90	0.19	162.749	
200.00	200.00	200.00	200.00	0.32	0.32	125.85	-18.21	25.20	31.09	30.45	0.64	48.539 CC	
300.00	299.95	299.95	299.95	0.53	0.54	-97.51	-18.21	25.20	31.33	30.26	1.07	29.256 ES	
400.00	399.63	399.63	399.63	0.75	0.77	-110.93	-18.21	25.20	33.28	31.76	1.52	21.927	
500.00	498.77	498.77	498.77	1.04	0.99	-128.48	-18.21	25.20	39.87	37.87	1.99	19.992 SF	
600.00	597.08	597.08	597.08	1.41	1.21	-143.69	-18.21	25.20	53.22	50.76	2.46	21.603	
700.00	694.31	694.31	694.31	1.86	1.43	-154.22	-18.21	25.20	73.45	70.53	2.92	25.184	
800.00	790.18	790.18	790.18	2.40	1.65	-161.02	-18.21	25.20	99.91	96.54	3.36	29.716	
900.00	884.43	884.43	884.43	3.04	1.86	-165.47	-18.21	25.20	132.04	128.23	3.81	34.685	
1,000.00	976.81	976.81	976.81	3.78	2.07	-168.47	-18.21	25.20	169.47	165.21	4.26	39.822	
1,100.00	1,067.06	1,067.06	1,067.06	4.61	2.27	-170.56	-18.21	25.20	211.93	207.22	4.71	45.007	
1,200.00	1,154.93	1,154.93	1,154.93	5.54	2.47	-172.07	-18.21	25.20	259.22	254.06	5.16	50.202	
1,289.05	1,230.99	1,230.99	1,230.99	6.44	2.64	-173.07	-18.21	25.20	305.25	299.68	5.57	54.815	
1,300.00	1,240.20	1,240.20	1,240.20	6.55	2.66	-173.20	-18.21	25.20	311.12	305.49	5.63	55.261	
1,400.00	1,324.38	1,325.10	1,325.10	7.61	2.83	-174.03	-18.94	25.86	364.80	358.62	6.18	59.011	
1,500.00	1,408.56	1,410.47	1,410.38	8.68	2.98	-174.24	-21.54	28.22	418.32	411.58	6.74	62.053	
1,600.00	1,492.74	1,496.07	1,495.77	9.75	3.14	-174.04	-26.05	32.28	471.64	464.32	7.32	64.396	
1,700.00	1,576.91	1,581.77	1,581.03	10.83	3.32	-173.55	-32.45	38.07	524.79	516.86	7.93	66.140	
1,800.00	1,661.09	1,667.40	1,665.93	11.90	3.51	-172.85	-40.73	45.55	577.81	569.23	8.58	67.364	
1,900.00	1,745.27	1,752.82	1,750.24	12.98	3.73	-172.00	-50.87	54.71	630.76	621.50	9.26	68.124	
2,000.00	1,829.45	1,837.87	1,833.76	14.06	3.98	-171.03	-62.81	65.49	683.71	673.73	9.99	68.467	
2,100.00	1,913.62	1,922.42	1,916.26	15.14	4.25	-169.99	-76.50	77.86	736.74	725.97	10.77	68.434	
2,200.00	1,997.80	2,006.32	1,997.66	16.22	4.56	-168.91	-91.59	91.49	789.92	778.30	11.63	67.945	
2,300.00	2,081.98	2,090.07	2,078.86	17.30	4.89	-167.94	-106.84	105.26	843.29	830.77	12.52	67.375	
2,400.00	2,166.16	2,173.83	2,160.05	18.39	5.24	-167.09	-122.08	119.02	896.80	883.38	13.43	66.791	
2,500.00	2,250.34	2,257.58	2,241.25	19.47	5.60	-166.33	-137.32	132.79	950.45	936.09	14.35	66.219	
2,600.00	2,334.51	2,341.33	2,322.45	20.55	5.97	-165.66	-152.56	146.56	1,004.20	988.91	15.29	65.668	
2,700.00	2,418.69	2,425.09	2,403.64	21.64	6.35	-165.05	-167.80	160.32	1,058.04	1,041.80	16.24	65.146	
2,800.00	2,502.87	2,508.84	2,484.84	22.72	6.74	-164.50	-183.04	174.09	1,111.96	1,094.76	17.20	64.654	
2,900.00	2,587.05	2,592.60	2,566.04	23.81	7.14	-164.00	-198.28	187.86	1,165.95	1,147.79	18.16	64.194	
3,000.00	2,671.23	2,676.35	2,647.23	24.89	7.54	-163.54	-213.52	201.62	1,219.99	1,200.86	19.13	63.764	
3,100.00	2,755.40	2,760.11	2,728.43	25.98	7.95	-163.12	-228.76	215.39	1,274.09	1,253.98	20.11	63.364	
3,200.00	2,839.58	2,843.86	2,809.63	27.06	8.35	-162.74	-244.00	229.15	1,328.23	1,307.14	21.09	62.992	
3,300.00	2,923.76	2,927.61	2,890.82	28.15	8.77	-162.39	-259.25	242.92	1,382.41	1,360.34	22.07	62.647	
3,400.00	3,007.94	3,011.37	2,972.02	29.23	9.18	-162.06	-274.49	256.69	1,436.62	1,413.57	23.05	62.327	
3,500.00	3,092.12	3,095.12	3,053.22	30.32	9.60	-161.75	-289.73	270.45	1,490.87	1,466.83	24.04	62.028	
3,600.00	3,176.29	3,178.88	3,134.42	31.40	10.02	-161.47	-304.97	284.22	1,545.14	1,520.12	25.02	61.750	
3,700.00	3,260.47	3,262.63	3,215.61	32.49	10.44	-161.21	-320.21	297.99	1,599.44	1,573.42	26.01	61.491	
3,800.00	3,344.65	3,346.38	3,296.81	33.57	10.87	-160.96	-335.45	311.75	1,653.76	1,626.76	27.00	61.250	
3,900.00	3,428.83	3,430.14	3,378.01	34.66	11.29	-160.73	-350.69	325.52	1,708.09	1,680.10	27.99	61.025	
3,967.71	3,485.83	3,486.85	3,432.99	35.39	11.58	-160.58	-361.01	334.84	1,744.90	1,716.24	28.66	60.881	
4,000.00	3,513.13	3,514.00	3,459.31	35.70	11.72	-160.68	-365.95	339.31	1,762.27	1,733.28	28.99	60.783	
4,100.00	3,599.18	3,599.45	3,542.15	36.47	12.16	-160.93	-381.50	353.35	1,813.77	1,783.80	29.98	60.506	
4,200.00	3,687.38	3,686.83	3,626.86	37.19	12.61	-161.09	-397.40	367.71	1,861.73	1,830.78	30.95	60.152	
4,300.00	3,777.54	3,775.96	3,713.27	37.86	13.06	-161.17	-413.62	382.36	1,906.06	1,874.15	31.91	59.737	
4,400.00	3,869.51	3,866.68	3,801.22	38.48	13.53	-161.18	-430.13	397.27	1,946.71	1,913.87	32.84	59.274	
4,500.00	3,963.10	3,958.81	3,890.54	39.04	14.01	-161.12	-446.90	412.42	1,983.62	1,949.87	33.75	58.773	
4,600.00	4,058.13	4,052.18	3,981.06	39.53	14.49	-161.00	-463.89	427.76	2,016.75	1,982.12	34.63	58.240	
4,700.00	4,154.43	4,146.61	4,072.61	39.97	14.98	-160.82	-481.07	443.29	2,046.06	2,010.59	35.47	57.682	
4,800.00	4,251.82	4,241.93	4,165.01	40.34	15.47	-160.57	-498.41	458.95	2,071.52	2,035.24	36.28	57.101	
4,900.00	4,350.10	4,337.94	4,258.09	40.65	15.97	-160.27	-515.89	474.73	2,093.13	2,056.08	37.05	56.501	

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

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	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	4,449.09	4,434.47	4,351.67	40.90	16.47	-159.90	-533.45	490.60	2,110.87	2,073.10	37.77	55.882	
5,100.00	4,548.60	4,531.33	4,445.58	41.08	16.98	-159.48	-551.08	506.52	2,124.76	2,086.30	38.46	55.246	
5,200.00	4,648.45	4,628.34	4,539.63	41.20	17.48	-158.98	-568.73	522.47	2,134.80	2,095.69	39.10	54.592	
5,274.58	4,723.01	4,700.68	4,609.75	41.25	17.86	60.01	-581.89	534.36	2,139.80	2,100.24	39.57	54.083	
5,300.00	4,748.43	4,725.33	4,633.65	41.27	17.99	60.16	-586.38	538.41	2,141.16	2,101.37	39.78	53.821	
5,400.00	4,848.43	4,822.27	4,727.64	41.31	18.49	60.78	-604.02	554.34	2,146.65	2,106.02	40.63	52.832	
5,500.00	4,948.43	4,919.22	4,821.62	41.36	19.00	61.40	-621.66	570.28	2,152.41	2,110.93	41.48	51.893	
5,600.00	5,048.43	5,016.17	4,915.61	41.41	19.51	62.02	-639.31	586.21	2,158.43	2,116.11	42.32	51.001	
5,700.00	5,148.43	5,113.11	5,009.60	41.46	20.01	62.63	-656.95	602.15	2,164.72	2,121.55	43.16	50.152	
5,800.00	5,248.43	5,210.06	5,103.58	41.51	20.52	63.24	-674.59	618.08	2,171.26	2,127.26	44.00	49.346	
5,900.00	5,348.43	5,307.01	5,197.57	41.56	21.03	63.84	-692.23	634.02	2,178.06	2,133.22	44.83	48.580	
6,000.00	5,448.43	5,403.95	5,291.56	41.61	21.54	64.44	-709.87	649.95	2,185.11	2,139.45	45.66	47.851	
6,100.00	5,548.43	5,500.90	5,385.54	41.67	22.05	65.04	-727.51	665.89	2,192.41	2,145.92	46.49	47.159	
6,200.00	5,648.43	5,597.85	5,479.53	41.72	22.55	65.63	-745.16	681.82	2,199.97	2,152.66	47.31	46.500	
6,300.00	5,748.43	5,694.79	5,573.52	41.78	23.06	66.22	-762.80	697.76	2,207.77	2,159.64	48.13	45.873	
6,400.00	5,848.43	5,819.95	5,695.34	41.83	23.60	66.93	-784.06	716.96	2,215.29	2,166.28	49.01	45.198	
6,500.00	5,948.43	5,952.80	5,825.89	41.89	24.02	67.53	-802.31	733.45	2,221.52	2,171.79	49.73	44.668	
6,600.00	6,048.43	6,087.71	5,959.47	41.95	24.38	67.98	-816.24	746.03	2,226.29	2,175.95	50.34	44.228	
6,700.00	6,148.43	6,224.12	6,095.29	42.01	24.66	68.29	-825.55	754.44	2,229.48	2,178.67	50.81	43.880	
6,800.00	6,248.43	6,361.42	6,232.44	42.08	24.86	68.43	-830.08	758.53	2,231.03	2,179.88	51.16	43.613	
6,900.00	6,348.43	6,477.42	6,348.43	42.14	25.00	68.45	-830.52	758.93	2,231.19	2,179.80	51.39	43.415	
7,000.00	6,448.43	6,577.42	6,448.43	42.20	25.11	68.45	-830.52	758.93	2,231.19	2,179.59	51.60	43.241	
7,100.00	6,548.43	6,677.42	6,548.43	42.27	25.22	68.45	-830.52	758.93	2,231.19	2,179.38	51.81	43.067	
7,200.00	6,648.43	6,777.42	6,648.43	42.33	25.33	68.45	-830.52	758.93	2,231.19	2,179.17	52.02	42.892	
7,300.00	6,748.43	6,877.42	6,748.43	42.40	25.44	68.45	-830.52	758.93	2,231.19	2,178.95	52.23	42.716	
7,400.00	6,848.43	6,977.42	6,848.43	42.47	25.55	68.45	-830.52	758.93	2,231.19	2,178.74	52.45	42.538	
7,500.00	6,948.43	7,077.42	6,948.43	42.54	25.67	68.45	-830.52	758.93	2,231.19	2,178.52	52.67	42.360	
7,600.00	7,048.43	7,177.42	7,048.43	42.61	25.78	68.45	-830.52	758.93	2,231.19	2,178.29	52.90	42.181	
7,700.00	7,148.43	7,277.42	7,148.43	42.68	25.90	68.45	-830.52	758.93	2,231.19	2,178.07	53.12	42.001	
7,800.00	7,248.43	7,377.42	7,248.43	42.75	26.02	68.45	-830.52	758.93	2,231.19	2,177.84	53.35	41.821	
7,900.00	7,348.43	7,477.42	7,348.43	42.83	26.14	68.45	-830.52	758.93	2,231.19	2,177.60	53.58	41.639	
8,000.00	7,448.43	7,577.42	7,448.43	42.90	26.26	68.45	-830.52	758.93	2,231.19	2,177.37	53.82	41.458	
8,100.00	7,548.43	7,677.42	7,548.43	42.98	26.38	68.45	-830.52	758.93	2,231.19	2,177.13	54.06	41.275	
8,200.00	7,648.43	7,777.42	7,648.43	43.06	26.51	68.45	-830.52	758.93	2,231.19	2,176.89	54.30	41.092	
8,300.00	7,748.43	7,877.42	7,748.43	43.13	26.63	68.45	-830.52	758.93	2,231.19	2,176.65	54.54	40.909	
8,400.00	7,848.43	7,977.42	7,848.43	43.21	26.76	68.45	-830.52	758.93	2,231.19	2,176.40	54.79	40.726	
8,416.58	7,865.02	7,980.00	7,851.02	43.23	26.76	68.45	-830.52	758.93	2,231.23	2,176.42	54.81	40.710	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	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	134.28	-10.92	11.20	15.65				
100.00	100.00	100.00	100.00	0.10	0.10	134.28	-10.92	11.20	15.65	15.46	0.19	81.896	
200.00	200.00	200.00	200.00	0.32	0.32	134.28	-10.92	11.20	15.65	15.01	0.64	24.425	
277.07	277.05	277.05	277.05	0.48	0.49	-90.00	-10.92	11.20	15.57	14.60	0.97	16.012 CC	
300.00	299.95	299.95	299.95	0.53	0.54	-93.90	-10.92	11.20	15.61	14.53	1.07	14.571 ES	
400.00	399.63	399.63	399.63	0.75	0.77	-119.64	-10.92	11.20	17.94	16.42	1.51	11.851 SF	
500.00	498.77	498.77	498.77	1.04	0.99	-144.33	-10.92	11.20	26.92	24.96	1.96	13.715	
600.00	597.08	597.08	597.08	1.41	1.21	-158.39	-10.92	11.20	43.09	40.69	2.40	17.940	
700.00	694.31	694.31	694.31	1.86	1.43	-165.76	-10.92	11.20	65.40	62.56	2.84	23.017	
800.00	790.18	790.18	790.18	2.40	1.65	-169.90	-10.92	11.20	93.23	89.94	3.29	28.364	
900.00	884.43	884.43	884.43	3.04	1.86	-172.42	-10.92	11.20	126.26	122.52	3.74	33.789	
1,000.00	976.81	976.81	976.81	3.78	2.07	-174.05	-10.92	11.20	164.30	160.11	4.19	39.212	
1,100.00	1,067.06	1,067.06	1,067.06	4.61	2.27	-175.17	-10.92	11.20	207.19	202.55	4.65	44.596	
1,200.00	1,154.93	1,154.93	1,154.93	5.54	2.47	-175.96	-10.92	11.20	254.79	249.69	5.10	49.931	
1,289.05	1,230.99	1,230.99	1,230.99	6.44	2.64	-176.48	-10.92	11.20	301.03	295.52	5.51	54.639	
1,300.00	1,240.20	1,240.20	1,240.20	6.55	2.66	-176.55	-10.92	11.20	306.93	301.36	5.57	55.089	
1,400.00	1,324.38	1,331.43	1,331.42	7.61	2.83	-176.94	-12.08	11.31	360.13	353.99	6.13	58.714	
1,500.00	1,408.56	1,426.03	1,425.92	8.68	3.00	-176.88	-16.31	11.71	411.43	404.73	6.70	61.393	
1,600.00	1,492.74	1,523.12	1,522.70	9.75	3.18	-176.50	-23.88	12.42	460.75	453.46	7.29	63.168	
1,700.00	1,576.91	1,622.57	1,621.52	10.83	3.38	-175.88	-35.01	13.47	508.05	500.13	7.92	64.179	
1,800.00	1,661.09	1,724.23	1,722.06	11.90	3.61	-175.06	-49.91	14.87	553.29	544.72	8.58	64.516	
1,900.00	1,745.27	1,827.89	1,823.98	12.98	3.89	-174.07	-68.76	16.65	596.48	587.19	9.29	64.239	
2,000.00	1,829.45	1,933.35	1,926.89	14.06	4.22	-172.93	-91.68	18.81	637.62	627.57	10.06	63.394	
2,100.00	1,913.62	2,040.35	2,030.37	15.14	4.62	-171.66	-118.78	21.36	676.77	665.86	10.91	62.031	
2,200.00	1,997.80	2,148.63	2,133.97	16.22	5.10	-170.26	-150.10	24.31	713.96	702.10	11.86	60.207	
2,300.00	2,081.98	2,257.90	2,237.24	17.30	5.64	-168.74	-185.63	27.66	749.29	736.38	12.92	58.010	
2,400.00	2,166.16	2,352.00	2,325.46	18.39	6.18	-167.42	-218.22	30.73	783.71	769.70	14.02	55.919	
2,500.00	2,250.34	2,444.44	2,412.12	19.47	6.72	-166.24	-250.25	33.75	818.45	803.31	15.15	54.041	
2,600.00	2,334.51	2,536.88	2,498.78	20.55	7.28	-165.15	-282.29	36.77	853.48	837.17	16.31	52.326	
2,700.00	2,418.69	2,629.32	2,585.43	21.64	7.85	-164.14	-314.32	39.79	888.77	871.26	17.51	50.768	
2,800.00	2,502.87	2,721.76	2,672.09	22.72	8.43	-163.21	-346.35	42.80	924.29	905.56	18.73	49.354	
2,900.00	2,587.05	2,814.20	2,758.75	23.81	9.03	-162.35	-378.39	45.82	960.00	940.03	19.97	48.073	
3,000.00	2,671.23	2,906.63	2,845.41	24.89	9.63	-161.55	-410.42	48.84	995.90	974.67	21.23	46.911	
3,100.00	2,755.40	2,999.07	2,932.07	25.98	10.23	-160.80	-442.45	51.86	1,031.96	1,009.45	22.51	45.854	
3,200.00	2,839.58	3,091.51	3,018.73	27.06	10.84	-160.10	-474.48	54.88	1,068.16	1,044.36	23.79	44.893	
3,300.00	2,923.76	3,183.95	3,105.39	28.15	11.46	-159.45	-506.52	57.89	1,104.49	1,079.40	25.09	44.015	
3,400.00	3,007.94	3,276.39	3,192.05	29.23	12.08	-158.84	-538.55	60.91	1,140.94	1,114.54	26.40	43.214	
3,500.00	3,092.12	3,368.83	3,278.71	30.32	12.70	-158.26	-570.58	63.93	1,177.50	1,149.78	27.72	42.479	
3,600.00	3,176.29	3,461.27	3,365.36	31.40	13.32	-157.72	-602.62	66.95	1,214.16	1,185.11	29.04	41.804	
3,700.00	3,260.47	3,553.71	3,452.02	32.49	13.95	-157.22	-634.65	69.97	1,250.90	1,220.53	30.37	41.182	
3,800.00	3,344.65	3,646.15	3,538.68	33.57	14.58	-156.74	-666.68	72.99	1,287.73	1,256.02	31.71	40.609	
3,900.00	3,428.83	3,738.59	3,625.34	34.66	15.21	-156.28	-698.72	76.00	1,324.63	1,291.58	33.05	40.078	
3,967.71	3,485.83	3,801.18	3,684.02	35.39	15.64	-155.99	-720.41	78.05	1,349.66	1,315.70	33.96	39.741	
4,000.00	3,513.13	3,831.09	3,712.06	35.70	15.84	-155.98	-730.77	79.02	1,361.41	1,327.01	34.40	39.572	
4,100.00	3,599.18	3,924.52	3,799.65	36.47	16.48	-155.88	-763.15	82.07	1,395.38	1,359.66	35.73	39.057	
4,200.00	3,687.38	4,019.01	3,888.23	37.19	17.13	-155.68	-795.89	85.16	1,425.69	1,388.63	37.06	38.474	
4,300.00	3,777.54	4,114.37	3,977.62	37.86	17.78	-155.39	-828.94	88.27	1,452.30	1,413.91	38.39	37.835	
4,400.00	3,869.51	4,210.41	4,067.67	38.48	18.44	-155.01	-862.22	91.41	1,475.22	1,435.51	39.71	37.148	
4,500.00	3,963.10	4,306.97	4,158.19	39.04	19.11	-154.55	-895.68	94.56	1,494.47	1,453.43	41.03	36.421	
4,600.00	4,058.13	4,403.85	4,249.01	39.53	19.78	-153.99	-929.25	97.72	1,510.06	1,467.71	42.35	35.658	
4,700.00	4,154.43	4,500.88	4,339.97	39.97	20.45	-153.34	-962.87	100.89	1,522.03	1,478.38	43.65	34.865	
4,800.00	4,251.82	4,597.86	4,430.88	40.34	21.12	-152.60	-996.48	104.06	1,530.45	1,485.49	44.95	34.044	

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

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	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
4,900.00	4,350.10	4,694.61	4,521.58	40.65	21.79	-151.76	-1,030.01	107.22	1,535.37	1,489.12	46.25	33.200	
5,000.00	4,449.09	4,790.94	4,611.90	40.90	22.45	-150.82	-1,063.39	110.36	1,536.88	1,489.35	47.53	32.334	
5,100.00	4,548.60	4,886.69	4,701.65	41.08	23.12	-149.77	-1,096.57	113.49	1,535.09	1,486.27	48.81	31.449	
5,200.00	4,648.45	4,981.65	4,790.67	41.20	23.78	-148.60	-1,129.48	116.59	1,530.11	1,480.02	50.09	30.549	
5,274.58	4,723.01	5,051.85	4,856.49	41.25	24.26	70.92	-1,153.80	118.88	1,524.40	1,473.36	51.04	29.866	
5,300.00	4,748.43	5,075.69	4,878.83	41.27	24.43	71.23	-1,162.06	119.66	1,522.20	1,470.80	51.40	29.617	
5,400.00	4,848.43	5,169.43	4,966.72	41.31	25.08	72.43	-1,194.55	122.72	1,514.01	1,461.23	52.78	28.685	
5,500.00	4,948.43	5,263.18	5,054.60	41.36	25.73	73.65	-1,227.04	125.78	1,506.58	1,452.42	54.16	27.816	
5,600.00	5,048.43	5,356.93	5,142.49	41.41	26.38	74.88	-1,259.52	128.84	1,499.92	1,444.38	55.54	27.005	
5,700.00	5,148.43	5,450.67	5,230.37	41.46	27.03	76.11	-1,292.01	131.90	1,494.04	1,437.12	56.92	26.250	
5,800.00	5,248.43	5,543.35	5,317.26	41.51	27.66	77.34	-1,324.08	134.92	1,488.96	1,430.71	58.25	25.562	
5,900.00	5,348.43	5,632.10	5,401.09	41.56	28.14	78.45	-1,353.10	137.66	1,484.89	1,425.53	59.36	25.014	
6,000.00	5,448.43	5,722.70	5,487.55	41.61	28.54	79.50	-1,380.05	140.20	1,481.81	1,421.46	60.35	24.553	
6,100.00	5,548.43	5,815.03	5,576.49	41.67	28.92	80.45	-1,404.70	142.52	1,479.56	1,418.29	61.26	24.151	
6,200.00	5,648.43	5,908.94	5,667.73	41.72	29.28	81.31	-1,426.82	144.60	1,477.97	1,415.88	62.09	23.803	
6,300.00	5,748.43	6,004.26	5,761.04	41.78	29.60	82.06	-1,446.22	146.43	1,476.90	1,414.07	62.83	23.506	
6,400.00	5,848.43	6,100.01	5,855.36	41.83	29.88	82.70	-1,462.59	147.97	1,476.22	1,412.75	63.47	23.257	
6,500.00	5,948.43	6,198.40	5,952.80	41.89	30.14	83.23	-1,476.13	149.25	1,475.82	1,411.79	64.03	23.049	
6,600.00	6,048.43	6,296.80	6,050.66	41.95	30.34	83.63	-1,486.33	150.21	1,475.60	1,411.12	64.48	22.884	
6,700.00	6,148.43	6,395.80	6,149.41	42.01	30.51	83.90	-1,493.21	150.86	1,475.50	1,410.66	64.84	22.757	
6,800.00	6,248.43	6,495.16	6,248.70	42.08	30.63	84.03	-1,496.70	151.19	1,475.46	1,410.36	65.09	22.667	
6,867.74	6,316.18	6,562.63	6,316.18	42.12	30.70	84.05	-1,497.16	151.23	1,475.45	1,410.23	65.22	22.623	
6,900.00	6,348.43	6,594.89	6,348.43	42.14	30.73	84.05	-1,497.16	151.23	1,475.45	1,410.18	65.27	22.605	
7,000.00	6,448.43	6,694.89	6,448.43	42.20	30.81	84.05	-1,497.16	151.23	1,475.45	1,410.02	65.43	22.550	
7,100.00	6,548.43	6,794.89	6,548.43	42.27	30.89	84.05	-1,497.16	151.23	1,475.45	1,409.86	65.59	22.494	
7,200.00	6,648.43	6,894.89	6,648.43	42.33	30.98	84.05	-1,497.16	151.23	1,475.45	1,409.69	65.76	22.438	
7,300.00	6,748.43	6,994.89	6,748.43	42.40	31.06	84.05	-1,497.16	151.23	1,475.45	1,409.53	65.92	22.381	
7,400.00	6,848.43	7,094.89	6,848.43	42.47	31.15	84.05	-1,497.16	151.23	1,475.45	1,409.36	66.09	22.324	
7,500.00	6,948.43	7,194.89	6,948.43	42.54	31.24	84.05	-1,497.16	151.23	1,475.45	1,409.18	66.27	22.266	
7,600.00	7,048.43	7,294.89	7,048.43	42.61	31.33	84.05	-1,497.16	151.23	1,475.45	1,409.01	66.44	22.207	
7,700.00	7,148.43	7,394.89	7,148.43	42.68	31.42	84.05	-1,497.16	151.23	1,475.45	1,408.83	66.62	22.148	
7,800.00	7,248.43	7,494.89	7,248.43	42.75	31.51	84.05	-1,497.16	151.23	1,475.45	1,408.65	66.80	22.088	
7,900.00	7,348.43	7,594.89	7,348.43	42.83	31.60	84.05	-1,497.16	151.23	1,475.45	1,408.47	66.98	22.027	
8,000.00	7,448.43	7,694.89	7,448.43	42.90	31.70	84.05	-1,497.16	151.23	1,475.45	1,408.28	67.17	21.967	
8,100.00	7,548.43	7,794.89	7,548.43	42.98	31.79	84.05	-1,497.16	151.23	1,475.45	1,408.09	67.36	21.905	
8,200.00	7,648.43	7,894.89	7,648.43	43.06	31.89	84.05	-1,497.16	151.23	1,475.45	1,407.90	67.55	21.843	
8,300.00	7,748.43	7,994.89	7,748.43	43.13	31.99	84.05	-1,497.16	151.23	1,475.45	1,407.71	67.74	21.781	
8,400.00	7,848.43	8,094.89	7,848.43	43.21	32.09	84.05	-1,497.16	151.23	1,475.45	1,407.51	67.94	21.718	
8,416.58	7,865.02	8,111.47	7,865.02	43.23	32.10	84.05	-1,497.16	151.23	1,475.45	1,407.48	67.97	21.708	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 6	MD Reference:	WELL @ 5008.01ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 7-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 7-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5008.01ft (Original Well Elev) Coordinates are relative to: P_DRY CREEK 7-27
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.41°



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 7-27
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5008.01ft (Original Well Elev)
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Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5008.01ft (Original Well Elev) Coordinates are relative to: P_DRY CREEK 7-27
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