



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DRY CREEK PAD 6

P_DRY CREEK 2-27

P_DRY CREEK 2-27

Plan: PLAN #1 10-27-09 RHS

Standard Planning Report

27 October, 2009





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 2-27

+N/-S	+E/-W	Northing	Ground Level:	4993.01	Longitude	Slot
0.00	0.00	1253701.87	Easting	3176352.60	40° 1' 41.088 N	104° 52' 12.900 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3141.01	3190.23	PARKMAN TOP
4743.01	4848.94	SUSSEX TOP
7325.01	7469.23	NIO TOP
7725.02	7869.23	CODELL TOP
8162.02	8306.23	JSAND TOP

SECTION DETAILS

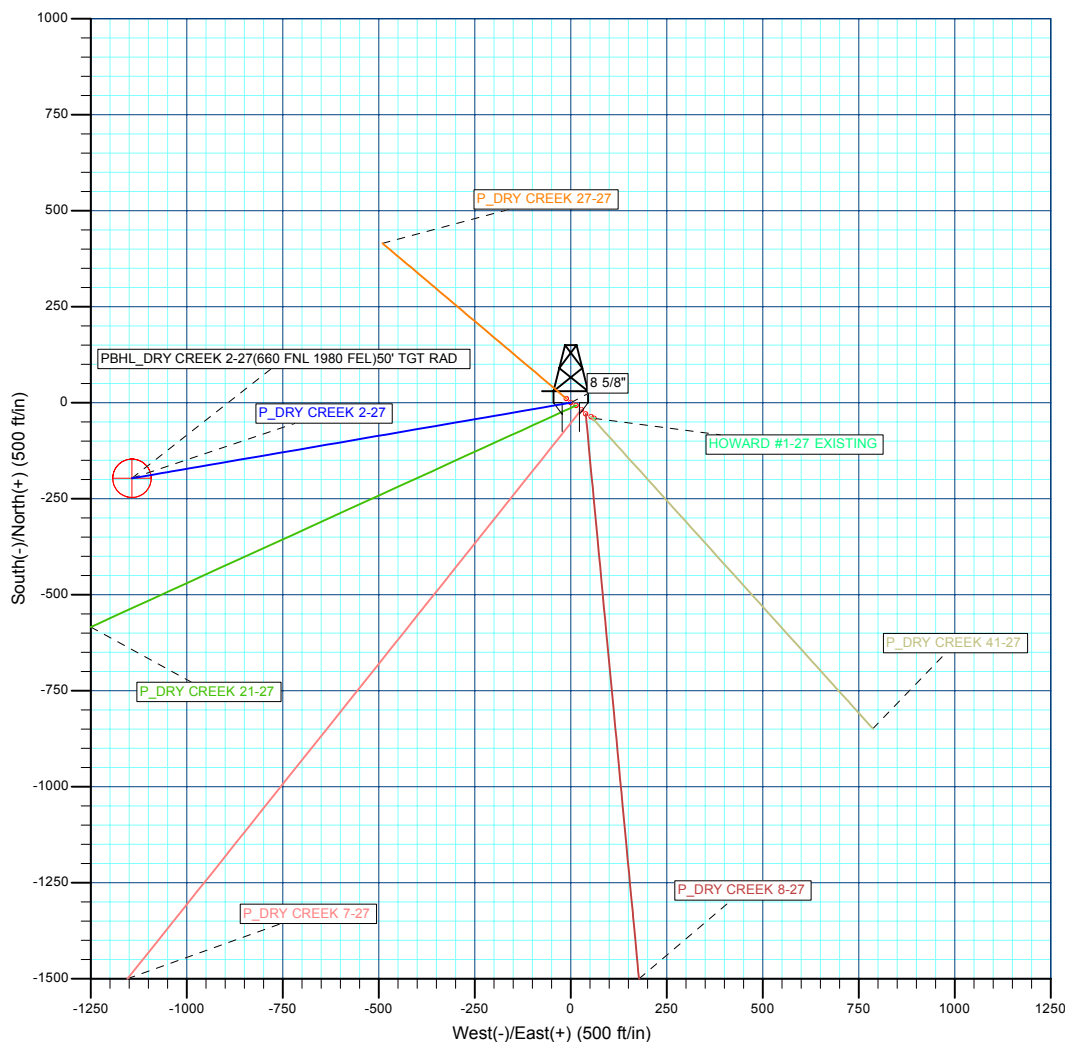
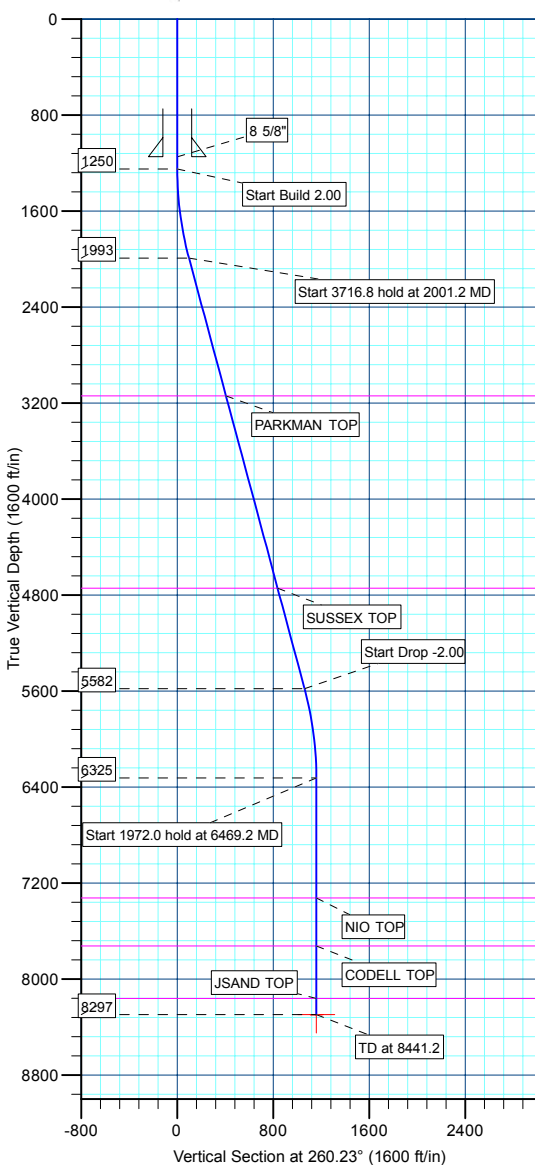
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00	0.00	
2001.23	15.02	260.23	1992.65	-16.61	-96.51	2.00	260.23	97.93	
5718.00	15.02	260.23	5582.37	-180.07	-1046.05	0.00	0.00	1061.44	
6469.23	0.00	0.00	6325.01	-196.68	-1142.57	2.00	180.00	1159.37	
8441.23	0.00	0.00	8297.02	-196.68	-1142.57	0.00	0.00	1159.37	PBHL_DRY CREEK 2-27(660 FNL 1980 FEL)50' TGT RAD

CASING DETAILS

TVD	MD	Name	Size
1150.00	1150.00	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	8297.02	-196.68	-1142.57	1253497.08	3175211.46	40° 1' 39.144 N	104° 52' 27.588 W	Circle (Radius: 50.00)

Plan: PLAN #1 10-27-09 RHS (P_DRY CREEK 2-27/P_DRY CREEK 2-27)

Created By: Robert H. Scott

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 2-27		
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 2-27					
Well Position	+N/-S	0.00 ft	Northing:	1,253,701.87 ft	Latitude:	40° 1' 41.088 N
	+E/-W	0.00 ft	Easting:	3,176,352.60 ft	Longitude:	104° 52' 12.900 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,993.01 ft

Wellbore	P_DRY CREEK 2-27				
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			
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	260.23

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	
1,250.00	0.00	0.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,001.23	15.02	260.23	1,992.65	-16.61	-96.51	2.00	2.00	0.00	260.23	
5,718.00	15.02	260.23	5,582.37	-180.07	-1,046.05	0.00	0.00	0.00	0.00	
6,469.23	0.00	0.00	6,325.01	-196.68	-1,142.57	2.00	-2.00	0.00	180.00	
8,441.23	0.00	0.00	8,297.02	-196.68	-1,142.57	0.00	0.00	0.00	0.00	PBHL_DRY CREEK

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 2-27		
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 2.00									
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	260.23	1,300.00	-0.07	-0.43	0.44	2.00	2.00	0.00
1,400.00	3.00	260.23	1,399.93	-0.67	-3.87	3.93	2.00	2.00	0.00
1,500.00	5.00	260.23	1,499.68	-1.85	-10.74	10.90	2.00	2.00	0.00
1,600.00	7.00	260.23	1,599.13	-3.62	-21.04	21.35	2.00	2.00	0.00
1,700.00	9.00	260.23	1,698.15	-5.98	-34.76	35.27	2.00	2.00	0.00
1,800.00	11.00	260.23	1,796.63	-8.93	-51.87	52.63	2.00	2.00	0.00
1,900.00	13.00	260.23	1,894.44	-12.46	-72.36	73.42	2.00	2.00	0.00
2,000.00	15.00	260.23	1,991.46	-16.56	-96.20	97.61	2.00	2.00	0.00
Start 3716.8 hold at 2001.2 MD									
2,001.23	15.02	260.23	1,992.65	-16.61	-96.51	97.93	2.00	2.00	0.00
2,100.00	15.02	260.23	2,088.04	-20.96	-121.75	123.54	0.00	0.00	0.00
2,200.00	15.02	260.23	2,184.63	-25.36	-147.29	149.46	0.00	0.00	0.00
2,300.00	15.02	260.23	2,281.21	-29.75	-172.84	175.38	0.00	0.00	0.00
2,400.00	15.02	260.23	2,377.79	-34.15	-198.39	201.31	0.00	0.00	0.00
2,500.00	15.02	260.23	2,474.37	-38.55	-223.94	227.23	0.00	0.00	0.00
2,600.00	15.02	260.23	2,570.95	-42.95	-249.48	253.15	0.00	0.00	0.00
2,700.00	15.02	260.23	2,667.53	-47.34	-275.03	279.08	0.00	0.00	0.00
2,800.00	15.02	260.23	2,764.11	-51.74	-300.58	305.00	0.00	0.00	0.00
2,900.00	15.02	260.23	2,860.70	-56.14	-326.13	330.92	0.00	0.00	0.00
3,000.00	15.02	260.23	2,957.28	-60.54	-351.67	356.85	0.00	0.00	0.00
3,100.00	15.02	260.23	3,053.86	-64.94	-377.22	382.77	0.00	0.00	0.00
PARKMAN TOP									
3,190.23	15.02	260.23	3,141.01	-68.90	-400.27	406.16	0.00	0.00	0.00
3,200.00	15.02	260.23	3,150.44	-69.33	-402.77	408.69	0.00	0.00	0.00
3,300.00	15.02	260.23	3,247.02	-73.73	-428.32	434.62	0.00	0.00	0.00
3,400.00	15.02	260.23	3,343.60	-78.13	-453.86	460.54	0.00	0.00	0.00
3,500.00	15.02	260.23	3,440.18	-82.53	-479.41	486.46	0.00	0.00	0.00
3,600.00	15.02	260.23	3,536.77	-86.92	-504.96	512.39	0.00	0.00	0.00
3,700.00	15.02	260.23	3,633.35	-91.32	-530.51	538.31	0.00	0.00	0.00
3,800.00	15.02	260.23	3,729.93	-95.72	-556.05	564.23	0.00	0.00	0.00
3,900.00	15.02	260.23	3,826.51	-100.12	-581.60	590.15	0.00	0.00	0.00
4,000.00	15.02	260.23	3,923.09	-104.52	-607.15	616.08	0.00	0.00	0.00
4,100.00	15.02	260.23	4,019.67	-108.91	-632.70	642.00	0.00	0.00	0.00
4,200.00	15.02	260.23	4,116.26	-113.31	-658.24	667.92	0.00	0.00	0.00
4,300.00	15.02	260.23	4,212.84	-117.71	-683.79	693.85	0.00	0.00	0.00
4,400.00	15.02	260.23	4,309.42	-122.11	-709.34	719.77	0.00	0.00	0.00
4,500.00	15.02	260.23	4,406.00	-126.50	-734.89	745.69	0.00	0.00	0.00
4,600.00	15.02	260.23	4,502.58	-130.90	-760.43	771.62	0.00	0.00	0.00
4,700.00	15.02	260.23	4,599.16	-135.30	-785.98	797.54	0.00	0.00	0.00
4,800.00	15.02	260.23	4,695.74	-139.70	-811.53	823.46	0.00	0.00	0.00
SUSSEX TOP									
4,848.94	15.02	260.23	4,743.01	-141.85	-824.03	836.15	0.00	0.00	0.00
4,900.00	15.02	260.23	4,792.33	-144.09	-837.08	849.39	0.00	0.00	0.00
5,000.00	15.02	260.23	4,888.91	-148.49	-862.62	875.31	0.00	0.00	0.00
5,100.00	15.02	260.23	4,985.49	-152.89	-888.17	901.23	0.00	0.00	0.00
5,200.00	15.02	260.23	5,082.07	-157.29	-913.72	927.16	0.00	0.00	0.00
5,300.00	15.02	260.23	5,178.65	-161.69	-939.26	953.08	0.00	0.00	0.00
5,400.00	15.02	260.23	5,275.23	-166.08	-964.81	979.00	0.00	0.00	0.00
5,500.00	15.02	260.23	5,371.81	-170.48	-990.36	1,004.93	0.00	0.00	0.00
5,600.00	15.02	260.23	5,468.40	-174.88	-1,015.91	1,030.85	0.00	0.00	0.00
5,700.00	15.02	260.23	5,564.98	-179.28	-1,041.45	1,056.77	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 2-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 2-27		
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 Drop -2.00									
5,718.00	15.02	260.23	5,582.37	-180.07	-1,046.05	1,061.44	0.00	0.00	0.00
5,800.00	13.38	260.23	5,661.85	-183.48	-1,065.88	1,081.56	2.00	-2.00	0.00
5,900.00	11.38	260.23	5,759.52	-187.12	-1,087.02	1,103.01	2.00	-2.00	0.00
6,000.00	9.38	260.23	5,857.88	-190.18	-1,104.78	1,121.03	2.00	-2.00	0.00
6,100.00	7.38	260.23	5,956.80	-192.65	-1,119.15	1,135.61	2.00	-2.00	0.00
6,200.00	5.38	260.23	6,056.18	-194.54	-1,130.11	1,146.73	2.00	-2.00	0.00
6,300.00	3.38	260.23	6,155.88	-195.83	-1,137.64	1,154.38	2.00	-2.00	0.00
6,400.00	1.38	260.23	6,255.79	-196.54	-1,141.74	1,158.54	2.00	-2.00	0.00
Start 1972.0 hold at 6469.2 MD									
6,469.23	0.00	0.00	6,325.01	-196.68	-1,142.57	1,159.37	2.00	-2.00	144.11
6,500.00	0.00	0.00	6,355.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
6,600.00	0.00	0.00	6,455.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
6,700.00	0.00	0.00	6,555.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
6,800.00	0.00	0.00	6,655.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
6,900.00	0.00	0.00	6,755.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,000.00	0.00	0.00	6,855.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,100.00	0.00	0.00	6,955.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,200.00	0.00	0.00	7,055.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,300.00	0.00	0.00	7,155.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,400.00	0.00	0.00	7,255.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
NIO TOP									
7,469.23	0.00	0.00	7,325.01	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,500.00	0.00	0.00	7,355.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,600.00	0.00	0.00	7,455.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,700.00	0.00	0.00	7,555.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,800.00	0.00	0.00	7,655.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
CODELL TOP									
7,869.23	0.00	0.00	7,725.02	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
7,900.00	0.00	0.00	7,755.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
8,000.00	0.00	0.00	7,855.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
8,100.00	0.00	0.00	7,955.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
8,200.00	0.00	0.00	8,055.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
8,300.00	0.00	0.00	8,155.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
JSAND TOP									
8,306.23	0.00	0.00	8,162.02	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
8,400.00	0.00	0.00	8,255.78	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00
TD at 8441.2 - PBHL_DRY CREEK 2-27(660 FNL 1980 FEL)50' TGT RAD									
8,441.23	0.00	0.00	8,297.02	-196.68	-1,142.57	1,159.37	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_DRY CREEK 2	0.00	0.00	8,297.02	-196.68	-1,142.57	1,253,497.08	3,175,211.46	40° 1' 39.144 N	104° 52' 27.588 W
- plan hits target center									
- Circle (radius 50.00)									

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 2-27		
Design:	PLAN #1 10-27-09 RHS		

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	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,190.23	3,141.01	PARKMAN TOP				
4,848.94	4,743.01	SUSSEX TOP				
7,469.23	7,325.01	NIO TOP				
7,869.23	7,725.02	CODELL TOP				
8,306.23	8,162.02	JSAND 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	
2,001.23	1,992.65	-16.61	-96.51	Start 3716.8 hold at 2001.2 MD	
5,718.00	5,582.37	-180.07	-1,046.05	Start Drop -2.00	
6,469.23	6,325.01	-196.68	-1,142.57	Start 1972.0 hold at 6469.2 MD	
8,441.23	8,297.02	-196.68	-1,142.57	TD at 8441.2	



US ROCKIES REGION PLANNING

**COLORADO NORTHERN ZONE - 83
WELD_DRY CREEK PAD 6
P_DRY CREEK 2-27**

**P_DRY CREEK 2-27
PLAN #1 10-27-09 RHS**

Anticollision Report

27 October, 2009



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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	8,441.23	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	1,250.00	1,242.00	73.43	70.75	27.394	CC, ES
HOWARD #1-27 EXISTING - HOWARD #1-27 EXISTING	1,400.00	1,391.93	76.33	73.34	25.554	SF
P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN	1,250.00	1,250.00	15.79	10.43	2.946	CC
P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN	1,300.00	1,300.17	15.87	10.30	2.851	ES
P_DRY CREEK 21-27 - PLAN #1 10-27-09 RHS - PLAN	1,400.00	1,400.50	16.51	10.56	2.777	SF
P_DRY CREEK 27-27 - P_DRY CREEK 27-27 - PLAN #	1,250.00	1,250.00	15.64	10.28	2.917	CC
P_DRY CREEK 27-27 - P_DRY CREEK 27-27 - PLAN #	1,300.00	1,299.73	15.82	10.24	2.838	ES, SF
P_DRY CREEK 41-27 - P_DRY CREEK 41-27 - PLAN #	1,250.00	1,250.00	64.49	59.13	12.031	CC, ES
P_DRY CREEK 41-27 - P_DRY CREEK 41-27 - PLAN #	1,300.00	1,298.92	65.22	59.66	11.727	SF
P_DRY CREEK 7-27 - P_DRY CREEK 7-27 - PLAN #1 1	310.65	310.71	33.26	32.15	29.835	CC, ES
P_DRY CREEK 7-27 - P_DRY CREEK 7-27 - PLAN #1 1	500.00	498.06	38.94	36.96	19.680	SF
P_DRY CREEK 8-27 - P_DRY CREEK 8-27 - PLAN #1 1	1,250.00	1,250.00	48.86	43.50	9.115	CC, ES
P_DRY CREEK 8-27 - P_DRY CREEK 8-27 - PLAN #1 1	1,300.00	1,299.43	49.45	43.89	8.893	SF

Offset Design WELD_DRY CREEK PAD 6 - HOWARD #1-27 EXISTING - HOWARD #1-27 EXISTING - HOWARD #1-												Offset Site Error:	0.00 ft
Survey Program: 0-Reference												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00		123.76	-40.81	61.05	73.87				
100.00	100.00	92.00	92.00	0.10		123.76	-40.81	61.05	73.43	73.34	0.10	767.102	
200.00	200.00	192.00	192.00	0.32		123.76	-40.81	61.05	73.43	73.11	0.32	229.121	
300.00	300.00	292.00	292.00	0.55		123.76	-40.81	61.05	73.43	72.89	0.55	134.673	
400.00	400.00	392.00	392.00	0.77		123.76	-40.81	61.05	73.43	72.66	0.77	95.362	
500.00	500.00	492.00	492.00	0.99		123.76	-40.81	61.05	73.43	72.44	0.99	73.816	
600.00	600.00	592.00	592.00	1.22		123.76	-40.81	61.05	73.43	72.21	1.22	60.212	
700.00	700.00	692.00	692.00	1.44		123.76	-40.81	61.05	73.43	71.99	1.44	50.841	
800.00	800.00	792.00	792.00	1.67		123.76	-40.81	61.05	73.43	71.76	1.67	43.995	
900.00	900.00	892.00	892.00	1.89		123.76	-40.81	61.05	73.43	71.54	1.89	38.773	
1,000.00	1,000.00	992.00	992.00	2.12		123.76	-40.81	61.05	73.43	71.31	2.12	34.660	
1,100.00	1,100.00	1,092.00	1,092.00	2.34		123.76	-40.81	61.05	73.43	71.09	2.34	31.336	
1,200.00	1,200.00	1,192.00	1,192.00	2.57		123.76	-40.81	61.05	73.43	70.86	2.57	28.593	
1,250.00	1,250.00	1,242.00	1,242.00	2.68		123.76	-40.81	61.05	73.43	70.75	2.68	27.394	CC, ES
1,300.00	1,300.00	1,292.00	1,292.00	2.78		-136.70	-40.81	61.05	73.75	70.96	2.79	26.461	

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:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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
1,400.00	1,399.93	1,391.93	1,391.93	2.98		-138.46	-40.81	61.05	76.33	73.34	2.99	25.554 SF	
1,500.00	1,499.68	1,491.68	1,491.68	3.19		-141.64	-40.81	61.05	81.68	78.49	3.19	25.578	
1,600.00	1,599.13	1,591.13	1,591.13	3.41		-145.66	-40.81	61.05	90.12	86.71	3.41	26.449	
1,700.00	1,698.15	1,690.15	1,690.15	3.66		-149.95	-40.81	61.05	101.94	98.31	3.63	28.095	
1,800.00	1,796.63	1,788.63	1,788.63	3.94		-154.05	-40.81	61.05	117.33	113.48	3.86	30.433	
1,900.00	1,894.44	1,886.44	1,886.44	4.26		-157.72	-40.81	61.05	136.39	132.30	4.09	33.365	
2,001.23	1,992.65	1,984.65	1,984.65	4.64		-160.90	-40.81	61.05	159.41	155.08	4.33	36.830	
2,100.00	2,088.04	2,080.04	2,080.04	5.05		-163.50	-40.81	61.05	183.87	179.30	4.57	40.197	
2,200.00	2,184.63	2,176.63	2,176.63	5.49		-165.52	-40.81	61.05	208.91	204.09	4.83	43.288	
2,300.00	2,281.21	2,273.21	2,273.21	5.95		-167.10	-40.81	61.05	234.15	229.07	5.08	46.083	
2,400.00	2,377.79	2,369.79	2,369.79	6.43		-168.38	-40.81	61.05	259.52	254.18	5.34	48.611	
2,500.00	2,474.37	2,466.37	2,466.37	6.92		-169.42	-40.81	61.05	284.99	279.39	5.60	50.900	
2,600.00	2,570.95	2,562.95	2,562.95	7.41		-170.30	-40.81	61.05	310.54	304.68	5.86	52.976	
2,700.00	2,667.53	2,659.53	2,659.53	7.92		-171.05	-40.81	61.05	336.14	330.02	6.13	54.864	
2,800.00	2,764.11	2,756.11	2,756.11	8.43		-171.68	-40.81	61.05	361.79	355.40	6.39	56.585	
2,900.00	2,860.70	2,852.70	2,852.70	8.95		-172.24	-40.81	61.05	387.48	380.82	6.66	58.158	
3,000.00	2,957.28	2,949.28	2,949.28	9.47		-172.72	-40.81	61.05	413.19	406.26	6.93	59.599	
3,100.00	3,053.86	3,045.86	3,045.86	9.99		-173.15	-40.81	61.05	438.93	431.73	7.20	60.923	
3,200.00	3,150.44	3,142.44	3,142.44	10.52		-173.53	-40.81	61.05	464.69	457.22	7.48	62.142	
3,300.00	3,247.02	3,239.02	3,239.02	11.05		-173.87	-40.81	61.05	490.47	482.72	7.75	63.268	
3,400.00	3,343.60	3,335.60	3,335.60	11.59		-174.18	-40.81	61.05	516.26	508.23	8.03	64.309	
3,500.00	3,440.18	3,432.18	3,432.18	12.12		-174.46	-40.81	61.05	542.07	533.76	8.30	65.276	
3,600.00	3,536.77	3,528.77	3,528.77	12.66		-174.71	-40.81	61.05	567.88	559.30	8.58	66.174	
3,700.00	3,633.35	3,625.35	3,625.35	13.20		-174.94	-40.81	61.05	593.71	584.85	8.86	67.011	
3,800.00	3,729.93	3,721.93	3,721.93	13.74		-175.15	-40.81	61.05	619.54	610.40	9.14	67.792	
3,900.00	3,826.51	3,818.51	3,818.51	14.28		-175.35	-40.81	61.05	645.38	635.96	9.42	68.523	
4,000.00	3,923.09	3,915.09	3,915.09	14.82		-175.53	-40.81	61.05	671.23	661.53	9.70	69.207	
4,100.00	4,019.67	4,011.67	4,011.67	15.37		-175.69	-40.81	61.05	697.08	687.10	9.98	69.850	
4,200.00	4,116.26	4,108.26	4,108.26	15.91		-175.85	-40.81	61.05	722.94	712.68	10.26	70.455	
4,300.00	4,212.84	4,204.84	4,204.84	16.46		-175.99	-40.81	61.05	748.80	738.26	10.54	71.024	
4,400.00	4,309.42	4,301.42	4,301.42	17.00		-176.12	-40.81	61.05	774.66	763.84	10.83	71.561	
4,500.00	4,406.00	4,398.00	4,398.00	17.55		-176.25	-40.81	61.05	800.53	789.43	11.11	72.068	
4,600.00	4,502.58	4,494.58	4,494.58	18.10		-176.37	-40.81	61.05	826.41	815.02	11.39	72.548	
4,700.00	4,599.16	4,591.16	4,591.16	18.64		-176.48	-40.81	61.05	852.28	840.61	11.67	73.002	
4,800.00	4,695.74	4,687.74	4,687.74	19.19		-176.58	-40.81	61.05	878.16	866.20	11.96	73.433	
4,900.00	4,792.33	4,784.33	4,784.33	19.74		-176.68	-40.81	61.05	904.04	891.80	12.24	73.843	
5,000.00	4,888.91	4,880.91	4,880.91	20.29		-176.77	-40.81	61.05	929.93	917.40	12.53	74.232	
5,100.00	4,985.49	4,977.49	4,977.49	20.84		-176.86	-40.81	61.05	955.81	943.00	12.81	74.602	
5,200.00	5,082.07	5,074.07	5,074.07	21.39		-176.94	-40.81	61.05	981.70	968.60	13.10	74.956	
5,300.00	5,178.65	5,170.65	5,170.65	21.94		-177.02	-40.81	61.05	1,007.59	994.21	13.38	75.292	
5,400.00	5,275.23	5,267.23	5,267.23	22.49		-177.10	-40.81	61.05	1,033.48	1,019.81	13.67	75.614	
5,500.00	5,371.81	5,363.81	5,363.81	23.04		-177.17	-40.81	61.05	1,059.37	1,045.42	13.95	75.921	
5,600.00	5,468.40	5,460.40	5,460.40	23.59		-177.23	-40.81	61.05	1,085.27	1,071.03	14.24	76.215	
5,700.00	5,564.98	5,556.98	5,556.98	24.14		-177.30	-40.81	61.05	1,111.16	1,096.64	14.53	76.497	
5,718.00	5,582.37	5,574.37	5,574.37	24.24		-177.31	-40.81	61.05	1,115.83	1,101.25	14.58	76.546	
5,800.00	5,661.85	5,653.85	5,653.85	24.62		-177.38	-40.81	61.05	1,135.93	1,121.25	14.68	77.374	
5,900.00	5,759.52	5,751.52	5,751.52	24.98		-177.45	-40.81	61.05	1,157.35	1,142.48	14.88	77.796	
6,000.00	5,857.88	5,849.88	5,849.88	25.29		-177.50	-40.81	61.05	1,175.36	1,160.28	15.08	77.935	
6,100.00	5,956.80	5,948.80	5,948.80	25.56		-177.54	-40.81	61.05	1,189.93	1,174.67	15.26	77.995	
6,200.00	6,056.18	6,048.18	6,048.18	25.79		-177.58	-40.81	61.05	1,201.04	1,185.63	15.40	77.980	
6,300.00	6,155.88	6,147.88	6,147.88	25.98		-177.60	-40.81	61.05	1,208.67	1,193.16	15.52	77.892	
6,400.00	6,255.79	6,247.79	6,247.79	26.12		-177.61	-40.81	61.05	1,212.83	1,197.23	15.60	77.733	

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:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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		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
6,469.23	6,325.01	6,317.01	6,317.01	26.19		82.62	-40.81	61.05	1,213.67	1,198.02	15.65	77.560	
6,500.00	6,355.78	6,347.78	6,347.78	26.23		82.62	-40.81	61.05	1,213.67	1,197.97	15.70	77.299	
6,600.00	6,455.78	6,447.78	6,447.78	26.34		82.62	-40.81	61.05	1,213.67	1,197.79	15.88	76.447	
6,700.00	6,555.78	6,547.78	6,547.78	26.45		82.62	-40.81	61.05	1,213.67	1,197.62	16.05	75.608	
6,800.00	6,655.78	6,647.78	6,647.78	26.57		82.62	-40.81	61.05	1,213.67	1,197.44	16.23	74.781	
6,900.00	6,755.78	6,747.78	6,747.78	26.68		82.62	-40.81	61.05	1,213.67	1,197.26	16.41	73.967	
7,000.00	6,855.78	6,847.78	6,847.78	26.80		82.62	-40.81	61.05	1,213.67	1,197.08	16.59	73.166	
7,100.00	6,955.78	6,947.78	6,947.78	26.92		82.62	-40.81	61.05	1,213.67	1,196.90	16.77	72.377	
7,200.00	7,055.78	7,047.78	7,047.78	27.04		82.62	-40.81	61.05	1,213.67	1,196.72	16.95	71.601	
7,300.00	7,155.78	7,147.78	7,147.78	27.16		82.62	-40.81	61.05	1,213.67	1,196.53	17.13	70.837	
7,400.00	7,255.78	7,247.78	7,247.78	27.29		82.62	-40.81	61.05	1,213.67	1,196.35	17.32	70.085	
7,500.00	7,355.78	7,347.78	7,347.78	27.41		82.62	-40.81	61.05	1,213.67	1,196.17	17.50	69.345	
7,600.00	7,455.78	7,447.78	7,447.78	27.54		82.62	-40.81	61.05	1,213.67	1,195.98	17.69	68.617	
7,700.00	7,555.78	7,547.78	7,547.78	27.67		82.62	-40.81	61.05	1,213.67	1,195.79	17.87	67.901	
7,800.00	7,655.78	7,647.78	7,647.78	27.79		82.62	-40.81	61.05	1,213.67	1,195.61	18.06	67.196	
7,900.00	7,755.78	7,747.78	7,747.78	27.92		82.62	-40.81	61.05	1,213.67	1,195.42	18.25	66.502	
8,000.00	7,855.78	7,847.78	7,847.78	28.05		82.62	-40.81	61.05	1,213.67	1,195.23	18.44	65.820	
8,100.00	7,955.78	7,947.78	7,947.78	28.19		82.62	-40.81	61.05	1,213.67	1,195.04	18.63	65.149	
8,200.00	8,055.78	8,047.78	8,047.78	28.32		82.62	-40.81	61.05	1,213.67	1,194.85	18.82	64.489	
8,300.00	8,155.78	8,147.78	8,147.78	28.45		82.62	-40.81	61.05	1,213.67	1,194.66	19.01	63.840	
8,400.00	8,255.78	8,247.78	8,247.78	28.59		82.62	-40.81	61.05	1,213.67	1,194.46	19.20	63.201	
8,415.74	8,271.53	8,263.53	8,263.53	28.61		82.62	-40.81	61.05	1,213.67	1,194.43	19.23	63.101	
8,441.23	8,297.02	8,270.02	8,270.02	28.65		82.62	-40.81	61.05	1,213.82	1,194.53	19.28	62.948	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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	117.54	-7.30	14.00	15.79				
100.00	100.00	100.00	100.00	0.10	0.10	117.54	-7.30	14.00	15.79	15.60	0.19	82.657	
200.00	200.00	200.00	200.00	0.32	0.32	117.54	-7.30	14.00	15.79	15.15	0.64	24.652	
300.00	300.00	300.00	300.00	0.55	0.55	117.54	-7.30	14.00	15.79	14.70	1.09	14.486	
400.00	400.00	400.00	400.00	0.77	0.77	117.54	-7.30	14.00	15.79	14.25	1.54	10.257	
500.00	500.00	500.00	500.00	0.99	0.99	117.54	-7.30	14.00	15.79	13.80	1.99	7.939	
600.00	600.00	600.00	600.00	1.22	1.22	117.54	-7.30	14.00	15.79	13.35	2.44	6.475	
700.00	700.00	700.00	700.00	1.44	1.44	117.54	-7.30	14.00	15.79	12.90	2.89	5.468	
800.00	800.00	800.00	800.00	1.67	1.67	117.54	-7.30	14.00	15.79	12.45	3.34	4.731	
900.00	900.00	900.00	900.00	1.89	1.89	117.54	-7.30	14.00	15.79	12.00	3.79	4.170	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	117.54	-7.30	14.00	15.79	11.55	4.24	3.727	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	117.54	-7.30	14.00	15.79	11.11	4.69	3.370	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	117.54	-7.30	14.00	15.79	10.66	5.14	3.075	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	117.54	-7.30	14.00	15.79	10.43	5.36	2.946 CC	
1,300.00	1,300.00	1,300.17	1,300.17	2.78	2.78	-142.40	-7.48	13.60	15.87	10.30	5.57	2.851 ES	
1,400.00	1,399.93	1,400.50	1,400.43	2.98	2.97	-140.15	-8.94	10.41	16.51	10.56	5.95	2.777 SF	
1,500.00	1,499.68	1,500.82	1,500.50	3.19	3.17	-136.15	-11.86	4.02	17.85	11.51	6.34	2.816	
1,600.00	1,599.13	1,601.10	1,600.22	3.41	3.39	-131.20	-16.22	-5.55	20.00	13.24	6.76	2.958	
1,700.00	1,698.15	1,701.34	1,699.48	3.66	3.63	-126.08	-22.03	-18.28	23.04	15.81	7.23	3.187	
1,800.00	1,796.63	1,801.53	1,798.12	3.94	3.91	-121.35	-29.27	-34.15	27.02	19.25	7.77	3.478	
1,900.00	1,894.44	1,901.64	1,896.04	4.26	4.23	-117.25	-37.93	-53.14	31.95	23.56	8.40	3.805	
2,001.23	1,992.65	2,002.91	1,994.27	4.64	4.61	-113.79	-48.13	-75.49	37.92	28.77	9.14	4.147	
2,100.00	2,088.04	2,101.61	2,089.12	5.05	5.03	-109.07	-59.45	-100.31	44.07	34.07	10.00	4.406	
2,200.00	2,184.63	2,201.24	2,183.85	5.49	5.53	-101.59	-72.25	-128.36	50.58	39.59	10.98	4.606	
2,300.00	2,281.21	2,300.32	2,276.95	5.95	6.09	-92.56	-86.32	-159.22	58.34	46.35	11.99	4.865	
2,400.00	2,377.79	2,398.64	2,368.11	6.43	6.72	-83.11	-101.60	-192.71	68.38	55.44	12.94	5.284	
2,500.00	2,474.37	2,495.97	2,457.06	6.92	7.41	-74.16	-118.00	-228.65	81.45	67.68	13.76	5.917	
2,600.00	2,570.95	2,592.10	2,543.55	7.41	8.17	-66.27	-135.41	-266.82	97.99	83.52	14.47	6.774	
2,700.00	2,667.53	2,686.85	2,627.36	7.92	8.99	-59.62	-153.75	-307.01	118.14	103.07	15.07	7.837	
2,800.00	2,764.11	2,780.61	2,708.84	8.43	9.86	-54.12	-172.99	-349.21	141.85	126.22	15.63	9.076	
2,900.00	2,860.70	2,876.64	2,791.75	8.95	10.80	-49.85	-193.11	-393.30	167.41	151.21	16.20	10.333	
3,000.00	2,957.28	2,972.67	2,874.66	9.47	11.75	-46.72	-213.22	-437.39	193.61	176.81	16.81	11.520	
3,100.00	3,053.86	3,068.70	2,957.56	9.99	12.71	-44.33	-233.33	-481.48	220.23	202.79	17.44	12.629	
3,200.00	3,150.44	3,164.74	3,040.47	10.52	13.68	-42.46	-253.45	-525.56	247.12	229.03	18.10	13.657	
3,300.00	3,247.02	3,260.77	3,123.38	11.05	14.66	-40.95	-273.56	-569.65	274.22	255.45	18.77	14.609	
3,400.00	3,343.60	3,356.80	3,206.29	11.59	15.65	-39.71	-293.68	-613.74	301.46	282.00	19.46	15.491	
3,500.00	3,440.18	3,452.83	3,289.20	12.12	16.64	-38.68	-313.79	-657.83	328.81	308.64	20.16	16.307	
3,600.00	3,536.77	3,548.87	3,372.11	12.66	17.64	-37.81	-333.90	-701.92	356.24	335.36	20.88	17.064	
3,700.00	3,633.35	3,644.90	3,455.01	13.20	18.63	-37.06	-354.02	-746.01	383.74	362.14	21.60	17.767	
3,800.00	3,729.93	3,740.93	3,537.92	13.74	19.64	-36.41	-374.13	-790.10	411.29	388.96	22.33	18.420	
3,900.00	3,826.51	3,836.96	3,620.83	14.28	20.64	-35.84	-394.24	-834.19	438.88	415.82	23.06	19.029	
4,000.00	3,923.09	3,933.00	3,703.74	14.82	21.65	-35.34	-414.36	-878.28	466.51	442.70	23.81	19.597	
4,100.00	4,019.67	4,029.03	3,786.65	15.37	22.66	-34.90	-434.47	-922.37	494.17	469.62	24.55	20.128	
4,200.00	4,116.26	4,125.06	3,869.55	15.91	23.67	-34.50	-454.58	-966.46	521.85	496.55	25.30	20.625	
4,300.00	4,212.84	4,221.09	3,952.46	16.46	24.68	-34.15	-474.70	-1,010.55	549.55	523.50	26.06	21.091	
4,400.00	4,309.42	4,317.13	4,035.37	17.00	25.70	-33.82	-494.81	-1,054.64	577.27	550.46	26.81	21.530	
4,500.00	4,406.00	4,413.16	4,118.28	17.55	26.71	-33.53	-514.92	-1,098.73	605.01	577.44	27.57	21.942	
4,600.00	4,502.58	4,509.19	4,201.19	18.10	27.73	-33.26	-535.04	-1,142.82	632.76	604.42	28.34	22.330	
4,700.00	4,599.16	4,605.22	4,284.10	18.64	28.75	-33.02	-555.15	-1,186.91	660.52	631.42	29.10	22.697	
4,800.00	4,695.74	4,701.26	4,367.00	19.19	29.77	-32.79	-575.26	-1,231.00	688.29	658.42	29.87	23.044	
4,900.00	4,792.33	4,797.29	4,449.91	19.74	30.78	-32.58	-595.38	-1,275.09	716.07	685.43	30.64	23.372	
5,000.00	4,888.91	4,893.32	4,532.82	20.29	31.80	-32.39	-615.49	-1,319.18	743.86	712.45	31.41	23.683	

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:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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
5,100.00	4,985.49	4,989.35	4,615.73	20.84	32.83	-32.21	-635.60	-1,363.27	771.66	739.48	32.18	23.978	
5,200.00	5,082.07	5,085.39	4,698.64	21.39	33.85	-32.05	-655.72	-1,407.36	799.46	766.50	32.96	24.258	
5,300.00	5,178.65	5,181.42	4,781.55	21.94	34.87	-31.89	-675.83	-1,451.45	827.27	793.54	33.73	24.525	
5,400.00	5,275.23	5,277.45	4,864.45	22.49	35.89	-31.75	-695.94	-1,495.54	855.08	820.57	34.51	24.779	
5,500.00	5,371.81	5,403.78	4,974.43	23.04	37.09	-31.61	-721.73	-1,552.07	881.65	846.25	35.40	24.907	
5,600.00	5,468.40	5,542.44	5,098.13	23.59	38.14	-31.59	-747.72	-1,609.05	903.92	867.59	36.33	24.883	
5,700.00	5,564.98	5,683.74	5,227.14	24.14	39.12	-31.70	-771.63	-1,661.44	921.63	884.33	37.29	24.713	
5,718.00	5,582.37	5,709.41	5,250.88	24.24	39.28	-31.74	-775.68	-1,670.34	924.32	886.85	37.47	24.667	
5,800.00	5,661.85	5,826.90	5,360.60	24.62	39.99	-32.02	-793.12	-1,708.56	935.66	897.46	38.20	24.493	
5,900.00	5,759.52	5,971.30	5,497.65	24.98	40.77	-32.31	-811.97	-1,749.88	947.84	908.88	38.97	24.324	
6,000.00	5,857.88	6,116.76	5,637.85	25.29	41.44	-32.55	-828.04	-1,785.10	958.19	918.56	39.63	24.180	
6,100.00	5,956.80	6,263.12	5,780.72	25.56	41.99	-32.74	-841.21	-1,813.96	966.64	926.47	40.17	24.061	
6,200.00	6,056.18	6,410.22	5,925.75	25.79	42.43	-32.88	-851.37	-1,836.24	973.17	932.56	40.61	23.963	
6,300.00	6,155.88	6,557.86	6,072.38	25.98	42.76	-32.98	-858.45	-1,851.76	977.75	936.82	40.93	23.888	
6,400.00	6,255.79	6,705.86	6,220.06	26.12	42.98	-33.03	-862.39	-1,860.40	980.36	939.22	41.14	23.831	
6,469.23	6,325.01	6,808.43	6,322.60	26.19	43.07	-132.80	-863.26	-1,862.31	981.00	939.79	41.22	23.802	
6,500.00	6,355.78	6,841.61	6,355.78	26.23	43.09	-132.80	-863.27	-1,862.32	981.01	939.71	41.30	23.755	
6,600.00	6,455.78	6,941.61	6,455.78	26.34	43.16	-132.80	-863.27	-1,862.32	981.01	939.45	41.57	23.602	
6,700.00	6,555.78	7,041.61	6,555.78	26.45	43.22	-132.80	-863.27	-1,862.32	981.01	939.17	41.84	23.447	
6,800.00	6,655.78	7,141.61	6,655.78	26.57	43.29	-132.80	-863.27	-1,862.32	981.01	938.90	42.12	23.294	
6,900.00	6,755.78	7,241.61	6,755.78	26.68	43.36	-132.80	-863.27	-1,862.32	981.01	938.62	42.39	23.140	
7,000.00	6,855.78	7,341.61	6,855.78	26.80	43.43	-132.80	-863.27	-1,862.32	981.01	938.33	42.68	22.987	
7,100.00	6,955.78	7,441.61	6,955.78	26.92	43.51	-132.80	-863.27	-1,862.32	981.01	938.05	42.96	22.835	
7,200.00	7,055.78	7,541.61	7,055.78	27.04	43.58	-132.80	-863.27	-1,862.32	981.01	937.76	43.25	22.683	
7,300.00	7,155.78	7,641.61	7,155.78	27.16	43.65	-132.80	-863.27	-1,862.32	981.01	937.47	43.54	22.532	
7,400.00	7,255.78	7,741.61	7,255.78	27.29	43.73	-132.80	-863.27	-1,862.32	981.01	937.18	43.83	22.381	
7,500.00	7,355.78	7,841.61	7,355.78	27.41	43.81	-132.80	-863.27	-1,862.32	981.01	936.88	44.13	22.231	
7,600.00	7,455.78	7,941.61	7,455.78	27.54	43.88	-132.80	-863.27	-1,862.32	981.01	936.58	44.43	22.082	
7,700.00	7,555.78	8,041.61	7,555.78	27.67	43.96	-132.80	-863.27	-1,862.32	981.01	936.28	44.73	21.933	
7,800.00	7,655.78	8,141.61	7,655.78	27.79	44.04	-132.80	-863.27	-1,862.32	981.01	935.98	45.03	21.786	
7,900.00	7,755.78	8,241.61	7,755.78	27.92	44.12	-132.80	-863.27	-1,862.32	981.01	935.68	45.34	21.639	
8,000.00	7,855.78	8,341.61	7,855.78	28.05	44.20	-132.80	-863.27	-1,862.32	981.01	935.37	45.64	21.493	
8,002.56	7,858.34	8,344.17	7,858.34	28.06	44.21	-132.80	-863.27	-1,862.32	981.01	935.36	45.65	21.489	
8,100.00	7,955.78	8,375.84	7,890.02	28.19	44.23	-132.80	-863.27	-1,862.32	983.21	937.35	45.86	21.440	
8,200.00	8,055.78	8,375.84	7,890.02	28.32	44.23	-132.80	-863.27	-1,862.32	994.92	948.89	46.03	21.616	
8,300.00	8,155.78	8,375.84	7,890.02	28.45	44.23	-132.80	-863.27	-1,862.32	1,016.37	970.18	46.20	22.002	
8,400.00	8,255.78	8,375.84	7,890.02	28.59	44.23	-132.80	-863.27	-1,862.32	1,046.98	1,000.62	46.37	22.581	
8,441.23	8,297.02	8,375.84	7,890.02	28.65	44.23	-132.80	-863.27	-1,862.32	1,062.09	1,015.65	46.44	22.872	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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-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	-45.75	10.91	-11.20	15.64				
100.00	100.00	100.00	100.00	0.10	0.10	-45.75	10.91	-11.20	15.64	15.45	0.19	81.850	
200.00	200.00	200.00	200.00	0.32	0.32	-45.75	10.91	-11.20	15.64	15.00	0.64	24.411	
300.00	300.00	300.00	300.00	0.55	0.55	-45.75	10.91	-11.20	15.64	14.55	1.09	14.345	
400.00	400.00	400.00	400.00	0.77	0.77	-45.75	10.91	-11.20	15.64	14.10	1.54	10.157	
500.00	500.00	500.00	500.00	0.99	0.99	-45.75	10.91	-11.20	15.64	13.65	1.99	7.861	
600.00	600.00	600.00	600.00	1.22	1.22	-45.75	10.91	-11.20	15.64	13.20	2.44	6.412	
700.00	700.00	700.00	700.00	1.44	1.44	-45.75	10.91	-11.20	15.64	12.75	2.89	5.414	
800.00	800.00	800.00	800.00	1.67	1.67	-45.75	10.91	-11.20	15.64	12.30	3.34	4.685	
900.00	900.00	900.00	900.00	1.89	1.89	-45.75	10.91	-11.20	15.64	11.85	3.79	4.129	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-45.75	10.91	-11.20	15.64	11.40	4.24	3.691	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-45.75	10.91	-11.20	15.64	10.95	4.69	3.337	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-45.75	10.91	-11.20	15.64	10.50	5.14	3.045	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	-45.75	10.91	-11.20	15.64	10.28	5.36	2.917 CC	
1,300.00	1,300.00	1,299.73	1,299.72	2.78	2.79	55.17	11.19	-11.53	15.82	10.24	5.57	2.838 ES, SF	
1,400.00	1,399.93	1,399.12	1,399.05	2.98	3.01	63.49	13.41	-14.17	17.47	11.48	5.98	2.919	
1,500.00	1,499.68	1,498.31	1,498.00	3.19	3.23	75.67	17.85	-19.42	21.59	15.18	6.41	3.369	
1,600.00	1,599.13	1,597.19	1,596.34	3.41	3.46	86.64	24.47	-27.26	28.90	22.04	6.86	4.214	
1,700.00	1,698.15	1,696.25	1,694.55	3.66	3.71	95.33	32.83	-37.16	39.05	31.71	7.35	5.316	
1,800.00	1,796.63	1,795.34	1,792.75	3.94	3.97	103.97	41.33	-47.22	50.62	42.75	7.87	6.434	
1,900.00	1,894.44	1,894.06	1,890.60	4.26	4.24	112.15	49.80	-57.25	64.17	55.76	8.42	7.625	
2,001.23	1,992.65	1,993.49	1,989.15	4.64	4.52	119.59	58.33	-67.35	80.49	71.51	8.98	8.960	
2,100.00	2,088.04	2,090.23	2,085.03	5.05	4.80	125.41	66.62	-77.18	98.32	88.75	9.56	10.283	
2,200.00	2,184.63	2,188.17	2,182.10	5.49	5.09	129.47	75.02	-87.12	117.06	106.90	10.16	11.525	
2,300.00	2,281.21	2,286.11	2,279.18	5.95	5.38	132.41	83.42	-97.07	136.21	125.45	10.76	12.654	
2,400.00	2,377.79	2,384.06	2,376.25	6.43	5.67	134.62	91.83	-107.02	155.63	144.25	11.38	13.674	
2,500.00	2,474.37	2,482.00	2,473.32	6.92	5.97	136.34	100.23	-116.97	175.22	163.21	12.01	14.594	
2,600.00	2,570.95	2,579.94	2,570.39	7.41	6.28	137.71	108.63	-126.92	194.93	182.29	12.64	15.425	
2,700.00	2,667.53	2,677.88	2,667.47	7.92	6.58	138.83	117.03	-136.87	214.73	201.45	13.27	16.176	
2,800.00	2,764.11	2,775.82	2,764.54	8.43	6.89	139.76	125.43	-146.82	234.59	220.67	13.92	16.857	
2,900.00	2,860.70	2,873.77	2,861.61	8.95	7.20	140.54	133.83	-156.76	254.50	239.94	14.56	17.476	
3,000.00	2,957.28	2,971.71	2,958.69	9.47	7.51	141.22	142.23	-166.71	274.46	259.24	15.21	18.041	
3,100.00	3,053.86	3,069.65	3,055.76	9.99	7.82	141.80	150.63	-176.66	294.44	278.58	15.87	18.558	
3,200.00	3,150.44	3,167.59	3,152.83	10.52	8.13	142.30	159.03	-186.61	314.45	297.93	16.52	19.031	
3,300.00	3,247.02	3,265.53	3,249.90	11.05	8.44	142.75	167.43	-196.56	334.48	317.30	17.18	19.468	
3,400.00	3,343.60	3,363.48	3,346.98	11.59	8.76	143.15	175.83	-206.51	354.53	336.69	17.84	19.870	
3,500.00	3,440.18	3,461.42	3,444.05	12.12	9.08	143.50	184.23	-216.46	374.60	356.09	18.51	20.242	
3,600.00	3,536.77	3,559.36	3,541.12	12.66	9.39	143.82	192.64	-226.40	394.67	375.50	19.17	20.587	
3,700.00	3,633.35	3,657.30	3,638.19	13.20	9.71	144.10	201.04	-236.35	414.76	394.92	19.84	20.908	
3,800.00	3,729.93	3,755.24	3,735.27	13.74	10.03	144.36	209.44	-246.30	434.85	414.35	20.51	21.207	
3,900.00	3,826.51	3,853.19	3,832.34	14.28	10.35	144.60	217.84	-256.25	454.95	433.78	21.17	21.486	
4,000.00	3,923.09	3,951.13	3,929.41	14.82	10.67	144.82	226.24	-266.20	475.06	453.22	21.85	21.747	
4,100.00	4,019.67	4,049.07	4,026.48	15.37	10.99	145.02	234.64	-276.15	495.18	472.66	22.52	21.991	
4,200.00	4,116.26	4,147.01	4,123.56	15.91	11.31	145.20	243.04	-286.10	515.30	492.11	23.19	22.221	
4,300.00	4,212.84	4,244.95	4,220.63	16.46	11.63	145.37	251.44	-296.04	535.42	511.56	23.86	22.437	
4,400.00	4,309.42	4,342.90	4,317.70	17.00	11.95	145.53	259.84	-305.99	555.55	531.02	24.54	22.641	
4,500.00	4,406.00	4,440.84	4,414.77	17.55	12.27	145.68	268.24	-315.94	575.69	550.48	25.21	22.833	
4,600.00	4,502.58	4,538.78	4,511.85	18.10	12.59	145.81	276.64	-325.89	595.82	569.94	25.89	23.015	
4,700.00	4,599.16	4,636.72	4,608.92	18.64	12.91	145.94	285.05	-335.84	615.96	589.40	26.56	23.187	
4,800.00	4,695.74	4,734.66	4,705.99	19.19	13.23	146.06	293.45	-345.79	636.11	608.87	27.24	23.350	
4,900.00	4,792.33	4,832.61	4,803.06	19.74	13.56	146.17	301.85	-355.74	656.25	628.33	27.92	23.505	
5,000.00	4,888.91	4,930.55	4,900.14	20.29	13.88	146.28	310.25	-365.68	676.40	647.80	28.60	23.652	

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:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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
5,100.00	4,985.49	5,028.49	4,997.21	20.84	14.20	146.38	318.65	-375.63	696.55	667.27	29.28	23.792	
5,200.00	5,082.07	5,126.43	5,094.28	21.39	14.52	146.47	327.05	-385.58	716.70	686.75	29.96	23.925	
5,300.00	5,178.65	5,224.37	5,191.35	21.94	14.85	146.56	335.45	-395.53	736.85	706.22	30.64	24.053	
5,400.00	5,275.23	5,322.32	5,288.43	22.49	15.17	146.65	343.85	-405.48	757.01	725.69	31.32	24.174	
5,500.00	5,371.81	5,420.26	5,385.50	23.04	15.49	146.73	352.25	-415.43	777.17	745.17	32.00	24.290	
5,600.00	5,468.40	5,518.20	5,482.57	23.59	15.82	146.80	360.65	-425.38	797.32	764.65	32.68	24.401	
5,700.00	5,564.98	5,616.14	5,579.64	24.14	16.14	146.88	369.05	-435.32	817.48	784.12	33.36	24.507	
5,718.00	5,582.37	5,633.77	5,597.12	24.24	16.20	146.89	370.57	-437.11	821.11	787.63	33.48	24.526	
5,800.00	5,661.85	5,714.28	5,676.91	24.62	16.47	147.07	377.47	-445.29	836.68	802.61	34.06	24.563	
5,900.00	5,759.52	5,812.91	5,774.67	24.98	16.79	147.15	385.93	-455.31	853.04	818.30	34.73	24.560	
6,000.00	5,857.88	5,911.94	5,872.82	25.29	17.12	147.07	394.43	-465.37	866.51	831.12	35.39	24.485	
6,100.00	5,956.80	6,009.50	5,969.55	25.56	17.42	146.87	402.56	-475.00	877.14	841.14	35.99	24.369	
6,200.00	6,056.18	6,105.49	6,065.06	25.79	17.64	146.71	408.78	-482.37	885.23	848.77	36.47	24.275	
6,300.00	6,155.88	6,201.77	6,161.12	25.98	17.83	146.62	412.94	-487.30	890.83	853.98	36.85	24.175	
6,400.00	6,255.79	6,298.22	6,257.51	26.12	17.99	146.59	415.02	-489.76	893.92	856.78	37.14	24.066	
6,469.23	6,325.01	6,365.73	6,325.01	26.19	18.08	46.84	415.27	-490.06	894.57	857.27	37.30	23.982	
6,500.00	6,355.78	6,396.50	6,355.78	26.23	18.13	46.84	415.27	-490.06	894.57	857.18	37.39	23.924	
6,600.00	6,455.78	6,496.50	6,455.78	26.34	18.30	46.84	415.27	-490.06	894.57	856.86	37.71	23.724	
6,700.00	6,555.78	6,596.50	6,555.78	26.45	18.47	46.84	415.27	-490.06	894.57	856.54	38.03	23.524	
6,800.00	6,655.78	6,696.50	6,655.78	26.57	18.64	46.84	415.27	-490.06	894.57	856.22	38.35	23.327	
6,900.00	6,755.78	6,796.50	6,755.78	26.68	18.81	46.84	415.27	-490.06	894.57	855.90	38.67	23.131	
7,000.00	6,855.78	6,896.50	6,855.78	26.80	18.99	46.84	415.27	-490.06	894.57	855.57	39.00	22.937	
7,100.00	6,955.78	6,996.50	6,955.78	26.92	19.16	46.84	415.27	-490.06	894.57	855.24	39.33	22.745	
7,200.00	7,055.78	7,096.50	7,055.78	27.04	19.34	46.84	415.27	-490.06	894.57	854.91	39.66	22.555	
7,300.00	7,155.78	7,196.50	7,155.78	27.16	19.52	46.84	415.27	-490.06	894.57	854.58	40.00	22.367	
7,400.00	7,255.78	7,296.50	7,255.78	27.29	19.69	46.84	415.27	-490.06	894.57	854.24	40.33	22.180	
7,500.00	7,355.78	7,396.50	7,355.78	27.41	19.87	46.84	415.27	-490.06	894.57	853.90	40.67	21.996	
7,600.00	7,455.78	7,496.50	7,455.78	27.54	20.05	46.84	415.27	-490.06	894.57	853.56	41.01	21.813	
7,700.00	7,555.78	7,596.50	7,555.78	27.67	20.23	46.84	415.27	-490.06	894.57	853.22	41.35	21.633	
7,800.00	7,655.78	7,696.50	7,655.78	27.79	20.42	46.84	415.27	-490.06	894.57	852.87	41.70	21.454	
7,900.00	7,755.78	7,796.50	7,755.78	27.92	20.60	46.84	415.27	-490.06	894.57	852.53	42.04	21.277	
8,000.00	7,855.78	7,896.50	7,855.78	28.05	20.78	46.84	415.27	-490.06	894.57	852.18	42.39	21.102	
8,100.00	7,955.78	7,905.73	7,865.02	28.19	20.80	46.84	415.27	-490.06	899.16	856.59	42.58	21.119	
8,200.00	8,055.78	7,905.73	7,865.02	28.32	20.80	46.84	415.27	-490.06	914.69	871.94	42.74	21.400	
8,300.00	8,155.78	7,905.73	7,865.02	28.45	20.80	46.84	415.27	-490.06	940.64	897.73	42.91	21.921	
8,400.00	8,255.78	7,905.73	7,865.02	28.59	20.80	46.84	415.27	-490.06	976.19	933.11	43.08	22.660	
8,441.23	8,297.02	7,905.73	7,865.02	28.65	20.80	46.84	415.27	-490.06	993.42	950.27	43.15	23.022	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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 41-27 - P_DRY CREEK 41-27 - PLAN #1 10-27-09 RHS												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)	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	124.41	-36.44	53.21	64.49				
100.00	100.00	100.00	100.00	0.10	0.10	124.41	-36.44	53.21	64.49	64.30	0.19	337.564	
200.00	200.00	200.00	200.00	0.32	0.32	124.41	-36.44	53.21	64.49	63.85	0.64	100.677	
300.00	300.00	300.00	300.00	0.55	0.55	124.41	-36.44	53.21	64.49	63.40	1.09	59.161	
400.00	400.00	400.00	400.00	0.77	0.77	124.41	-36.44	53.21	64.49	62.95	1.54	41.888	
500.00	500.00	500.00	500.00	0.99	0.99	124.41	-36.44	53.21	64.49	62.50	1.99	32.421	
600.00	600.00	600.00	600.00	1.22	1.22	124.41	-36.44	53.21	64.49	62.05	2.44	26.445	
700.00	700.00	700.00	700.00	1.44	1.44	124.41	-36.44	53.21	64.49	61.60	2.89	22.329	
800.00	800.00	800.00	800.00	1.67	1.67	124.41	-36.44	53.21	64.49	61.15	3.34	19.322	
900.00	900.00	900.00	900.00	1.89	1.89	124.41	-36.44	53.21	64.49	60.70	3.79	17.028	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	124.41	-36.44	53.21	64.49	60.26	4.24	15.222	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	124.41	-36.44	53.21	64.49	59.81	4.69	13.762	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	124.41	-36.44	53.21	64.49	59.36	5.14	12.557	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	124.41	-36.44	53.21	64.49	59.13	5.36	12.031 CC, ES	
1,300.00	1,300.00	1,298.92	1,298.92	2.78	2.78	-135.99	-36.75	53.49	65.22	59.66	5.56	11.727 SF	
1,400.00	1,399.93	1,396.49	1,396.42	2.98	2.95	-137.19	-39.22	55.72	71.06	65.13	5.93	11.991	
1,500.00	1,499.68	1,493.26	1,492.97	3.19	3.14	-139.05	-44.10	60.13	82.78	76.49	6.30	13.148	
1,600.00	1,599.13	1,588.74	1,587.95	3.41	3.34	-140.99	-51.29	66.62	100.41	93.73	6.67	15.050	
1,700.00	1,698.15	1,682.43	1,680.79	3.66	3.55	-142.66	-60.62	75.04	123.87	116.81	7.05	17.560	
1,800.00	1,796.63	1,773.91	1,770.99	3.94	3.79	-143.96	-71.90	85.23	153.03	145.58	7.45	20.552	
1,900.00	1,894.44	1,862.77	1,858.11	4.26	4.05	-144.90	-84.89	96.97	187.72	179.87	7.85	23.907	
2,001.23	1,992.65	1,949.72	1,942.78	4.64	4.35	-145.55	-99.54	110.20	228.24	219.96	8.28	27.551	
2,100.00	2,088.04	2,038.12	2,028.49	5.05	4.68	-146.44	-115.62	124.72	270.65	261.87	8.79	30.806	
2,200.00	2,184.63	2,128.35	2,115.97	5.49	5.05	-147.10	-132.04	139.55	313.65	304.33	9.31	33.674	
2,300.00	2,281.21	2,218.59	2,203.45	5.95	5.43	-147.60	-148.46	154.38	356.67	346.81	9.86	36.171	
2,400.00	2,377.79	2,308.82	2,290.93	6.43	5.83	-148.00	-164.88	169.22	399.71	389.29	10.42	38.353	
2,500.00	2,474.37	2,399.05	2,378.40	6.92	6.23	-148.32	-181.30	184.05	442.76	431.76	11.00	40.266	
2,600.00	2,570.95	2,489.29	2,465.88	7.41	6.65	-148.58	-197.72	198.88	485.82	474.24	11.58	41.950	
2,700.00	2,667.53	2,579.52	2,553.36	7.92	7.08	-148.80	-214.14	213.71	528.89	516.71	12.17	43.442	
2,800.00	2,764.11	2,669.76	2,640.84	8.43	7.51	-148.98	-230.56	228.54	571.96	559.19	12.78	44.770	
2,900.00	2,860.70	2,759.99	2,728.32	8.95	7.94	-149.14	-246.98	243.37	615.04	601.66	13.38	45.958	
3,000.00	2,957.28	2,850.22	2,815.80	9.47	8.39	-149.28	-263.40	258.20	658.12	644.12	14.00	47.025	
3,100.00	3,053.86	2,940.46	2,903.28	9.99	8.83	-149.40	-279.82	273.04	701.20	686.59	14.61	47.987	
3,200.00	3,150.44	3,030.69	2,990.76	10.52	9.28	-149.51	-296.24	287.87	744.29	729.05	15.23	48.859	
3,300.00	3,247.02	3,120.93	3,078.23	11.05	9.73	-149.61	-312.66	302.70	787.37	771.52	15.86	49.652	
3,400.00	3,343.60	3,211.16	3,165.71	11.59	10.18	-149.69	-329.08	317.53	830.46	813.98	16.48	50.377	
3,500.00	3,440.18	3,301.39	3,253.19	12.12	10.64	-149.77	-345.50	332.36	873.55	856.44	17.11	51.041	
3,600.00	3,536.77	3,391.63	3,340.67	12.66	11.10	-149.84	-361.92	347.19	916.65	898.90	17.75	51.652	
3,700.00	3,633.35	3,481.86	3,428.15	13.20	11.56	-149.90	-378.34	362.03	959.74	941.36	18.38	52.216	
3,800.00	3,729.93	3,572.09	3,515.63	13.74	12.02	-149.96	-394.76	376.86	1,002.83	983.82	19.02	52.738	
3,900.00	3,826.51	3,662.33	3,603.11	14.28	12.48	-150.02	-411.18	391.69	1,045.93	1,026.27	19.65	53.223	
4,000.00	3,923.09	3,752.56	3,690.59	14.82	12.94	-150.07	-427.60	406.52	1,089.02	1,068.73	20.29	53.675	
4,100.00	4,019.67	3,842.80	3,778.06	15.37	13.41	-150.11	-444.02	421.35	1,132.12	1,111.18	20.93	54.087	
4,200.00	4,116.26	3,933.03	3,865.54	15.91	13.87	-150.15	-460.44	436.18	1,175.21	1,153.63	21.58	54.455	
4,300.00	4,212.84	4,023.26	3,953.02	16.46	14.34	-150.19	-476.86	451.02	1,218.31	1,196.08	22.23	54.798	
4,400.00	4,309.42	4,113.50	4,040.50	17.00	14.81	-150.23	-493.28	465.85	1,261.41	1,238.52	22.89	55.118	
4,500.00	4,406.00	4,203.73	4,127.98	17.55	15.27	-150.26	-509.70	480.68	1,304.50	1,280.96	23.54	55.418	
4,600.00	4,502.58	4,293.96	4,215.46	18.10	15.74	-150.30	-526.12	495.51	1,347.60	1,323.41	24.19	55.699	
4,700.00	4,599.16	4,384.20	4,302.94	18.64	16.21	-150.33	-542.54	510.34	1,390.70	1,365.85	24.85	55.962	
4,800.00	4,695.74	4,474.43	4,390.42	19.19	16.68	-150.35	-558.96	525.17	1,433.80	1,408.29	25.51	56.210	
4,900.00	4,792.33	4,564.67	4,477.90	19.74	17.15	-150.38	-575.38	540.00	1,476.90	1,450.73	26.17	56.444	
5,000.00	4,888.91	4,654.90	4,565.37	20.29	17.62	-150.41	-591.80	554.84	1,519.99	1,493.17	26.82	56.664	

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:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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
5,100.00	4,985.49	4,745.13	4,652.85	20.84	18.09	-150.43	-608.22	569.67	1,563.09	1,535.61	27.48	56.872	
5,200.00	5,082.07	4,835.37	4,740.33	21.39	18.56	-150.45	-624.64	584.50	1,606.19	1,578.05	28.14	57.069	
5,300.00	5,178.65	4,925.60	4,827.81	21.94	19.03	-150.47	-641.06	599.33	1,649.29	1,620.49	28.81	57.255	
5,400.00	5,275.23	5,015.84	4,915.29	22.49	19.50	-150.49	-657.48	614.16	1,692.39	1,662.92	29.47	57.432	
5,500.00	5,371.81	5,106.07	5,002.77	23.04	19.98	-150.51	-673.90	628.99	1,735.49	1,705.36	30.13	57.600	
5,600.00	5,468.40	5,196.30	5,090.25	23.59	20.45	-150.53	-690.32	643.83	1,778.59	1,747.80	30.79	57.760	
5,700.00	5,564.98	5,286.54	5,177.73	24.14	20.92	-150.55	-706.74	658.66	1,821.69	1,790.24	31.46	57.912	
5,718.00	5,582.37	5,302.78	5,193.48	24.24	21.01	-150.55	-709.70	661.33	1,829.45	1,797.88	31.58	57.939	
5,800.00	5,661.85	5,377.20	5,265.62	24.62	21.40	-150.92	-723.24	673.56	1,863.87	1,831.64	32.23	57.839	
5,900.00	5,759.52	5,469.08	5,354.69	24.98	21.88	-151.27	-739.96	688.66	1,903.30	1,870.35	32.95	57.766	
6,000.00	5,857.88	5,562.07	5,444.85	25.29	22.37	-151.54	-756.88	703.95	1,939.91	1,906.27	33.64	57.670	
6,100.00	5,956.80	5,656.06	5,535.97	25.56	22.86	-151.72	-773.98	719.40	1,973.65	1,939.36	34.29	57.556	
6,200.00	6,056.18	5,744.41	5,629.93	25.79	23.58	-151.71	-801.43	744.19	2,003.86	1,968.79	35.07	57.139	
6,300.00	6,155.88	5,844.71	5,729.62	25.98	24.33	-151.58	-832.61	772.35	2,025.03	1,989.14	35.89	56.421	
6,400.00	6,255.79	5,944.29	5,829.32	26.12	24.82	-151.54	-847.64	785.93	2,035.47	1,998.93	36.55	55.692	
6,469.23	6,325.01	6,014.00	5,904.01	26.19	24.97	108.67	-848.76	786.93	2,036.71	1,999.87	36.84	55.285	
6,500.00	6,355.78	6,044.77	5,935.78	26.23	25.01	108.67	-848.76	786.93	2,036.71	1,999.78	36.93	55.150	
6,600.00	6,455.78	6,144.77	6,035.78	26.34	25.12	108.67	-848.76	786.93	2,036.71	1,999.49	37.22	54.719	
6,700.00	6,555.78	6,244.77	6,135.78	26.45	25.22	108.67	-848.76	786.93	2,036.71	1,999.19	37.51	54.293	
6,800.00	6,655.78	6,344.77	6,235.78	26.57	25.33	108.67	-848.76	786.93	2,036.71	1,998.90	37.81	53.869	
6,900.00	6,755.78	6,444.77	6,335.78	26.68	25.45	108.67	-848.76	786.93	2,036.71	1,998.60	38.11	53.447	
7,000.00	6,855.78	6,544.77	6,435.78	26.80	25.56	108.67	-848.76	786.93	2,036.71	1,998.30	38.41	53.028	
7,100.00	6,955.78	6,644.77	6,535.78	26.92	25.67	108.67	-848.76	786.93	2,036.71	1,997.99	38.71	52.612	
7,200.00	7,055.78	6,744.77	6,635.78	27.04	25.79	108.67	-848.76	786.93	2,036.71	1,997.69	39.02	52.198	
7,300.00	7,155.78	6,844.77	6,735.78	27.16	25.91	108.67	-848.76	786.93	2,036.71	1,997.38	39.33	51.787	
7,400.00	7,255.78	6,944.77	6,835.78	27.29	26.03	108.67	-848.76	786.93	2,036.71	1,997.07	39.64	51.379	
7,500.00	7,355.78	7,044.77	6,935.78	27.41	26.15	108.67	-848.76	786.93	2,036.71	1,996.75	39.96	50.974	
7,600.00	7,455.78	7,144.77	7,035.78	27.54	26.27	108.67	-848.76	786.93	2,036.71	1,996.43	40.27	50.572	
7,700.00	7,555.78	7,244.77	7,135.78	27.67	26.39	108.67	-848.76	786.93	2,036.71	1,996.11	40.59	50.173	
7,800.00	7,655.78	7,344.77	7,235.78	27.79	26.52	108.67	-848.76	786.93	2,036.71	1,995.79	40.92	49.778	
7,900.00	7,755.78	7,444.77	7,335.78	27.92	26.64	108.67	-848.76	786.93	2,036.71	1,995.47	41.24	49.386	
7,965.00	7,820.78	7,509.77	7,400.78	28.01	26.73	108.67	-848.76	786.93	2,036.71	1,995.25	41.45	49.133	
8,000.00	7,855.78	7,540.00	7,435.02	28.05	26.76	108.67	-848.76	786.93	2,036.71	1,995.15	41.56	49.007	
8,100.00	7,955.78	7,640.00	7,535.02	28.19	26.76	108.67	-848.76	786.93	2,039.40	1,997.67	41.73	48.875	
8,200.00	8,055.78	7,740.00	7,635.02	28.32	26.76	108.67	-848.76	786.93	2,046.97	2,005.08	41.89	48.860	
8,300.00	8,155.78	7,840.00	7,735.02	28.45	26.76	108.67	-848.76	786.93	2,059.38	2,017.32	42.06	48.959	
8,400.00	8,255.78	7,940.00	7,835.02	28.59	26.76	108.67	-848.76	786.93	2,076.54	2,034.30	42.23	49.168	
8,441.23	8,297.02	7,980.00	7,875.02	28.65	26.76	108.67	-848.76	786.93	2,084.97	2,042.66	42.30	49.285	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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	123.07	-18.23	28.00	33.42				
100.00	100.00	100.00	100.00	0.10	0.10	123.07	-18.23	28.00	33.42	33.23	0.19	174.914	
200.00	200.00	200.00	200.00	0.32	0.32	123.07	-18.23	28.00	33.42	32.78	0.64	52.167	
300.00	300.00	300.08	300.03	0.55	0.53	127.57	-20.28	26.37	33.27	32.20	1.07	31.124	
310.65	310.65	310.71	310.65	0.57	0.55	128.58	-20.74	26.00	33.26	32.15	1.11	29.835 CC, ES	
400.00	400.00	399.61	399.24	0.77	0.75	140.81	-26.38	21.51	34.04	32.55	1.50	22.723	
500.00	500.00	498.06	496.85	0.99	1.03	159.60	-36.38	13.53	38.94	36.96	1.98	19.680 SF	
600.00	600.00	594.95	592.14	1.22	1.39	176.99	-50.04	2.63	50.73	48.17	2.56	19.814	
700.00	700.00	689.81	684.46	1.44	1.81	-170.73	-67.07	-10.95	69.71	66.47	3.24	21.502	
800.00	800.00	782.27	773.29	1.67	2.31	-162.82	-87.09	-26.92	94.98	90.98	4.00	23.738	
900.00	900.00	872.00	858.22	1.89	2.86	-157.71	-109.71	-44.96	125.71	120.88	4.82	26.056	
1,000.00	1,000.00	958.74	938.94	2.12	3.48	-154.30	-134.51	-64.75	161.29	155.59	5.70	28.284	
1,100.00	1,100.00	1,042.29	1,015.25	2.34	4.13	-151.92	-161.10	-85.95	201.30	194.67	6.63	30.381	
1,200.00	1,200.00	1,122.54	1,087.08	2.57	4.82	-150.20	-189.06	-108.26	245.38	237.80	7.58	32.353	
1,250.00	1,250.00	1,161.39	1,121.30	2.68	5.18	-149.52	-203.44	-119.73	268.86	260.78	8.08	33.271	
1,300.00	1,300.00	1,200.00	1,154.93	2.78	5.54	-48.80	-218.26	-131.56	292.99	287.25	5.75	50.992	
1,400.00	1,399.93	1,274.12	1,218.39	2.98	6.29	-47.41	-248.20	-155.44	342.35	336.15	6.20	55.217	
1,500.00	1,499.68	1,358.24	1,289.23	3.19	7.17	-46.49	-283.66	-183.72	391.96	385.25	6.71	58.386	
1,600.00	1,599.13	1,446.17	1,363.24	3.41	8.11	-46.01	-320.77	-213.32	439.54	432.27	7.26	60.505	
1,700.00	1,698.15	1,535.14	1,438.14	3.66	9.06	-45.86	-358.31	-243.27	485.00	477.15	7.85	61.801	
1,800.00	1,796.63	1,625.04	1,513.81	3.94	10.02	-45.95	-396.25	-273.53	528.34	519.87	8.47	62.397	
1,900.00	1,894.44	1,715.76	1,590.18	4.26	11.00	-46.24	-434.54	-304.07	569.58	560.45	9.13	62.383	
2,001.23	1,992.65	1,808.31	1,668.09	4.64	11.99	-46.70	-473.60	-335.23	609.23	599.37	9.85	61.822	
2,100.00	2,088.04	1,898.94	1,744.38	5.05	12.97	-47.76	-511.84	-365.74	647.00	636.39	10.61	60.991	
2,200.00	2,184.63	1,990.70	1,821.62	5.49	13.96	-48.71	-550.56	-396.63	685.41	674.00	11.40	60.101	
2,300.00	2,281.21	2,082.45	1,898.86	5.95	14.95	-49.56	-589.28	-427.51	723.97	711.74	12.23	59.201	
2,400.00	2,377.79	2,174.21	1,976.09	6.43	15.94	-50.32	-628.01	-458.40	762.65	749.57	13.08	58.318	
2,500.00	2,474.37	2,265.97	2,053.33	6.92	16.94	-51.01	-666.73	-489.29	801.43	787.49	13.95	57.465	
2,600.00	2,570.95	2,357.72	2,130.57	7.41	17.93	-51.64	-705.45	-520.18	840.31	825.48	14.83	56.651	
2,700.00	2,667.53	2,449.48	2,207.81	7.92	18.92	-52.22	-744.17	-551.06	879.27	863.53	15.73	55.880	
2,800.00	2,764.11	2,541.24	2,285.05	8.43	19.92	-52.74	-782.89	-581.95	918.29	901.64	16.65	55.155	
2,900.00	2,860.70	2,632.99	2,362.29	8.95	20.91	-53.22	-821.62	-612.84	957.38	939.80	17.58	54.473	
3,000.00	2,957.28	2,724.75	2,439.52	9.47	21.91	-53.67	-860.34	-643.73	996.51	978.00	18.51	53.835	
3,100.00	3,053.86	2,816.50	2,516.76	9.99	22.90	-54.08	-899.06	-674.61	1,035.70	1,016.25	19.45	53.237	
3,200.00	3,150.44	2,908.26	2,594.00	10.52	23.90	-54.46	-937.78	-705.50	1,074.93	1,054.52	20.41	52.677	
3,300.00	3,247.02	3,000.02	2,671.24	11.05	24.89	-54.82	-976.50	-736.39	1,114.19	1,092.83	21.36	52.153	
3,400.00	3,343.60	3,091.77	2,748.48	11.59	25.89	-55.15	-1,015.22	-767.28	1,153.49	1,131.17	22.33	51.662	
3,500.00	3,440.18	3,183.53	2,825.72	12.12	26.88	-55.45	-1,053.95	-798.17	1,192.82	1,169.53	23.30	51.202	
3,600.00	3,536.77	3,275.28	2,902.96	12.66	27.88	-55.74	-1,092.67	-829.05	1,232.18	1,207.91	24.27	50.769	
3,700.00	3,633.35	3,367.04	2,980.19	13.20	28.87	-56.02	-1,131.39	-859.94	1,271.56	1,246.32	25.25	50.363	
3,800.00	3,729.93	3,458.80	3,057.43	13.74	29.87	-56.27	-1,170.11	-890.83	1,310.97	1,284.74	26.23	49.981	
3,900.00	3,826.51	3,550.55	3,134.67	14.28	30.87	-56.51	-1,208.83	-921.72	1,350.40	1,323.18	27.21	49.622	
4,000.00	3,923.09	3,642.31	3,211.91	14.82	31.86	-56.74	-1,247.55	-952.60	1,389.84	1,361.64	28.20	49.282	
4,100.00	4,019.67	3,734.07	3,289.15	15.37	32.86	-56.95	-1,286.28	-983.49	1,429.30	1,400.11	29.19	48.962	
4,200.00	4,116.26	3,825.82	3,366.39	15.91	33.85	-57.15	-1,325.00	-1,014.38	1,468.78	1,438.60	30.18	48.660	
4,300.00	4,212.84	3,917.58	3,443.62	16.46	34.85	-57.35	-1,363.72	-1,045.27	1,508.28	1,477.10	31.18	48.373	
4,400.00	4,309.42	4,008.40	3,520.87	17.00	35.83	-57.71	-1,401.37	-1,079.23	1,546.80	1,514.27	32.53	47.545	
4,500.00	4,406.00	4,098.56	3,601.91	17.55	36.81	-58.53	-1,438.08	-1,109.18	1,584.83	1,549.46	34.37	45.877	
4,600.00	4,502.58	4,189.24	3,682.21	18.10	37.79	-59.72	-1,474.57	-1,139.81	1,622.81	1,587.84	36.26	44.017	
4,700.00	4,599.16	4,279.76	3,762.69	18.64	38.77	-61.31	-1,510.86	-1,170.59	1,660.84	1,625.95	38.14	42.054	
4,800.00	4,695.74	4,369.45	3,843.90	19.19	39.75	-63.30	-1,547.31	-1,201.44	1,697.84	1,660.86	39.98	40.041	
4,900.00	4,792.33	4,459.89	3,924.33	19.74	40.73	-64.53	-1,583.35	-1,232.27	1,734.83	1,696.45	41.18	38.600	

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:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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 7-27 - P_DRY CREEK 7-27 - 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
5,000.00	4,888.91	5,440.47	4,888.91	20.29	41.33	-65.35	-1,668.35	-1,288.27	1,578.34	1,536.18	42.16	37.439	
5,100.00	4,985.49	5,537.06	4,985.49	20.84	41.38	-66.19	-1,668.35	-1,288.27	1,567.39	1,524.24	43.14	36.329	
5,200.00	5,082.07	5,633.64	5,082.07	21.39	41.42	-67.04	-1,668.35	-1,288.27	1,556.79	1,512.65	44.14	35.268	
5,300.00	5,178.65	5,730.22	5,178.65	21.94	41.47	-67.89	-1,668.35	-1,288.27	1,546.56	1,501.41	45.15	34.253	
5,400.00	5,275.23	5,826.80	5,275.23	22.49	41.52	-68.76	-1,668.35	-1,288.27	1,536.69	1,490.53	46.17	33.284	
5,500.00	5,371.81	5,923.38	5,371.81	23.04	41.57	-69.64	-1,668.35	-1,288.27	1,527.21	1,480.01	47.20	32.358	
5,600.00	5,468.40	6,019.96	5,468.40	23.59	41.62	-70.53	-1,668.35	-1,288.27	1,518.10	1,469.87	48.23	31.474	
5,700.00	5,564.98	6,116.54	5,564.98	24.14	41.68	-71.43	-1,668.35	-1,288.27	1,509.39	1,460.11	49.28	30.630	
5,718.00	5,582.37	6,133.93	5,582.37	24.24	41.68	-71.59	-1,668.35	-1,288.27	1,507.86	1,458.40	49.47	30.482	
5,800.00	5,661.85	6,213.42	5,661.85	24.62	41.73	-72.18	-1,668.35	-1,288.27	1,501.43	1,451.31	50.12	29.960	
5,900.00	5,759.52	6,311.09	5,759.52	24.98	41.78	-72.82	-1,668.35	-1,288.27	1,494.84	1,444.06	50.78	29.436	
6,000.00	5,857.88	6,409.44	5,857.88	25.29	41.84	-73.37	-1,668.35	-1,288.27	1,489.52	1,438.14	51.37	28.993	
6,100.00	5,956.80	6,508.37	5,956.80	25.56	41.90	-73.82	-1,668.35	-1,288.27	1,485.36	1,433.47	51.89	28.626	
6,200.00	6,056.18	6,607.74	6,056.18	25.79	41.96	-74.17	-1,668.35	-1,288.27	1,482.28	1,429.96	52.32	28.331	
6,300.00	6,155.88	6,707.45	6,155.88	25.98	42.02	-74.42	-1,668.35	-1,288.27	1,480.20	1,427.54	52.66	28.106	
6,400.00	6,255.79	6,807.36	6,255.79	26.12	42.08	-74.55	-1,668.35	-1,288.27	1,479.09	1,426.16	52.92	27.949	
6,469.23	6,325.01	6,876.58	6,325.01	26.19	42.12	-174.35	-1,668.35	-1,288.27	1,478.86	1,425.82	53.05	27.878	
6,500.00	6,355.78	6,907.35	6,355.78	26.23	42.14	-174.35	-1,668.35	-1,288.27	1,478.86	1,425.75	53.11	27.845	
6,600.00	6,455.78	7,007.35	6,455.78	26.34	42.21	-174.35	-1,668.35	-1,288.27	1,478.86	1,425.54	53.33	27.732	
6,700.00	6,555.78	7,107.35	6,555.78	26.45	42.27	-174.35	-1,668.35	-1,288.27	1,478.86	1,425.32	53.54	27.620	
6,800.00	6,655.78	7,207.35	6,655.78	26.57	42.34	-174.35	-1,668.35	-1,288.27	1,478.86	1,425.10	53.76	27.507	
6,900.00	6,755.78	7,307.35	6,755.78	26.68	42.41	-174.35	-1,668.35	-1,288.27	1,478.86	1,424.88	53.99	27.393	
7,000.00	6,855.78	7,407.35	6,855.78	26.80	42.47	-174.35	-1,668.35	-1,288.27	1,478.86	1,424.65	54.21	27.279	
7,100.00	6,955.78	7,507.35	6,955.78	26.92	42.54	-174.35	-1,668.35	-1,288.27	1,478.86	1,424.42	54.44	27.164	
7,200.00	7,055.78	7,607.35	7,055.78	27.04	42.61	-174.35	-1,668.35	-1,288.27	1,478.86	1,424.19	54.67	27.049	
7,300.00	7,155.78	7,707.35	7,155.78	27.16	42.69	-174.35	-1,668.35	-1,288.27	1,478.86	1,423.96	54.91	26.934	
7,400.00	7,255.78	7,807.35	7,255.78	27.29	42.76	-174.35	-1,668.35	-1,288.27	1,478.86	1,423.72	55.14	26.818	
7,500.00	7,355.78	7,907.35	7,355.78	27.41	42.83	-174.35	-1,668.35	-1,288.27	1,478.86	1,423.48	55.38	26.702	
7,600.00	7,455.78	8,007.35	7,455.78	27.54	42.91	-174.35	-1,668.35	-1,288.27	1,478.86	1,423.24	55.63	26.586	
7,700.00	7,555.78	8,107.35	7,555.78	27.67	42.98	-174.35	-1,668.35	-1,288.27	1,478.86	1,422.99	55.87	26.470	
7,800.00	7,655.78	8,207.35	7,655.78	27.79	43.06	-174.35	-1,668.35	-1,288.27	1,478.86	1,422.75	56.12	26.353	
7,900.00	7,755.78	8,307.35	7,755.78	27.92	43.14	-174.35	-1,668.35	-1,288.27	1,478.86	1,422.50	56.37	26.236	
8,000.00	7,855.78	8,407.35	7,855.78	28.05	43.22	-174.35	-1,668.35	-1,288.27	1,478.86	1,422.24	56.62	26.120	
8,100.00	7,955.78	8,416.58	7,865.02	28.19	43.23	-174.35	-1,668.35	-1,288.27	1,481.65	1,424.88	56.76	26.101	
8,200.00	8,055.78	8,416.58	7,865.02	28.32	43.23	-174.35	-1,668.35	-1,288.27	1,491.12	1,434.22	56.90	26.205	
8,300.00	8,155.78	8,416.58	7,865.02	28.45	43.23	-174.35	-1,668.35	-1,288.27	1,507.18	1,450.14	57.04	26.424	
8,400.00	8,255.78	8,416.58	7,865.02	28.59	43.23	-174.35	-1,668.35	-1,288.27	1,529.62	1,472.44	57.18	26.752	
8,441.23	8,297.02	8,416.58	7,865.02	28.65	43.23	-174.35	-1,668.35	-1,288.27	1,540.67	1,483.43	57.23	26.918	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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	126.64	-29.16	39.21	48.86				
100.00	100.00	100.00	100.00	0.10	0.10	126.64	-29.16	39.21	48.86	48.67	0.19	255.743	
200.00	200.00	200.00	200.00	0.32	0.32	126.64	-29.16	39.21	48.86	48.22	0.64	76.274	
300.00	300.00	300.00	300.00	0.55	0.55	126.64	-29.16	39.21	48.86	47.77	1.09	44.821	
400.00	400.00	400.00	400.00	0.77	0.77	126.64	-29.16	39.21	48.86	47.32	1.54	31.735	
500.00	500.00	500.00	500.00	0.99	0.99	126.64	-29.16	39.21	48.86	46.87	1.99	24.563	
600.00	600.00	600.00	600.00	1.22	1.22	126.64	-29.16	39.21	48.86	46.42	2.44	20.035	
700.00	700.00	700.00	700.00	1.44	1.44	126.64	-29.16	39.21	48.86	45.97	2.89	16.917	
800.00	800.00	800.00	800.00	1.67	1.67	126.64	-29.16	39.21	48.86	45.52	3.34	14.639	
900.00	900.00	900.00	900.00	1.89	1.89	126.64	-29.16	39.21	48.86	45.07	3.79	12.901	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	126.64	-29.16	39.21	48.86	44.62	4.24	11.532	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	126.64	-29.16	39.21	48.86	44.17	4.69	10.426	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	126.64	-29.16	39.21	48.86	43.72	5.14	9.513	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	126.64	-29.16	39.21	48.86	43.50	5.36	9.115 CC, ES	
1,300.00	1,300.00	1,299.43	1,299.43	2.78	2.78	-133.58	-29.58	39.25	49.45	43.89	5.56	8.893 SF	
1,400.00	1,399.93	1,398.12	1,398.06	2.98	2.95	-133.48	-32.97	39.56	54.16	48.24	5.92	9.148	
1,500.00	1,499.68	1,496.33	1,496.02	3.19	3.12	-133.30	-39.70	40.20	63.57	57.28	6.29	10.103	
1,600.00	1,599.13	1,593.72	1,592.90	3.41	3.31	-133.09	-49.66	41.14	77.62	70.94	6.68	11.622	
1,700.00	1,698.15	1,690.01	1,688.28	3.66	3.53	-132.85	-62.73	42.37	96.26	89.17	7.09	13.578	
1,800.00	1,796.63	1,784.90	1,781.80	3.94	3.77	-132.59	-78.73	43.88	119.41	111.88	7.54	15.842	
1,900.00	1,894.44	1,878.14	1,873.12	4.26	4.04	-132.31	-97.44	45.64	146.97	138.94	8.03	18.302	
2,001.23	1,992.65	1,970.58	1,963.00	4.64	4.35	-132.00	-118.91	47.66	179.25	170.66	8.58	20.883	
2,100.00	2,088.04	2,059.07	2,048.36	5.05	4.70	-131.88	-142.15	49.85	213.79	204.59	9.20	23.229	
2,200.00	2,184.63	2,147.20	2,132.61	5.49	5.09	-131.29	-167.89	52.28	250.70	240.82	9.88	25.379	
2,300.00	2,281.21	2,233.73	2,214.51	5.95	5.52	-130.44	-195.67	54.89	289.55	278.96	10.59	27.339	
2,400.00	2,377.79	2,322.56	2,297.86	6.43	6.01	-129.46	-226.25	57.77	330.02	318.66	11.36	29.063	
2,500.00	2,474.37	2,413.79	2,383.38	6.92	6.53	-128.65	-257.87	60.75	370.71	358.56	12.15	30.505	
2,600.00	2,570.95	2,505.02	2,468.91	7.41	7.08	-127.99	-289.48	63.73	411.46	398.49	12.97	31.727	
2,700.00	2,667.53	2,596.25	2,554.44	7.92	7.64	-127.46	-321.10	66.71	452.24	438.44	13.80	32.769	
2,800.00	2,764.11	2,687.49	2,639.97	8.43	8.22	-127.01	-352.71	69.69	493.05	478.40	14.65	33.665	
2,900.00	2,860.70	2,778.72	2,725.49	8.95	8.80	-126.63	-384.33	72.67	533.88	518.37	15.50	34.442	
3,000.00	2,957.28	2,869.95	2,811.02	9.47	9.39	-126.30	-415.94	75.65	574.72	558.36	16.36	35.120	
3,100.00	3,053.86	2,961.18	2,896.55	9.99	9.98	-126.02	-447.56	78.63	615.58	598.35	17.24	35.716	
3,200.00	3,150.44	3,052.42	2,982.08	10.52	10.59	-125.77	-479.17	81.60	656.45	638.34	18.11	36.243	
3,300.00	3,247.02	3,143.65	3,067.60	11.05	11.19	-125.56	-510.79	84.58	697.33	678.34	18.99	36.712	
3,400.00	3,343.60	3,234.88	3,153.13	11.59	11.80	-125.36	-542.40	87.56	738.22	718.34	19.88	37.131	
3,500.00	3,440.18	3,326.11	3,238.66	12.12	12.41	-125.19	-574.02	90.54	779.11	758.34	20.77	37.508	
3,600.00	3,536.77	3,417.34	3,324.19	12.66	13.03	-125.03	-605.63	93.52	820.01	798.35	21.67	37.849	
3,700.00	3,633.35	3,508.58	3,409.71	13.20	13.64	-124.89	-637.24	96.50	860.92	838.36	22.56	38.159	
3,800.00	3,729.93	3,599.81	3,495.24	13.74	14.26	-124.76	-668.86	99.48	901.82	878.36	23.46	38.442	
3,900.00	3,826.51	3,691.04	3,580.77	14.28	14.88	-124.64	-700.47	102.45	942.74	918.38	24.36	38.700	
4,000.00	3,923.09	3,782.27	3,666.30	14.82	15.51	-124.54	-732.09	105.43	983.65	958.39	25.26	38.938	
4,100.00	4,019.67	3,873.50	3,751.82	15.37	16.13	-124.44	-763.70	108.41	1,024.57	998.40	26.17	39.158	
4,200.00	4,116.26	3,964.74	3,837.35	15.91	16.76	-124.35	-795.32	111.39	1,065.49	1,038.42	27.07	39.361	
4,300.00	4,212.84	4,055.97	3,922.88	16.46	17.38	-124.26	-826.93	114.37	1,106.41	1,078.43	27.97	39.550	
4,400.00	4,309.42	4,147.20	4,008.40	17.00	18.01	-124.18	-858.55	117.35	1,147.33	1,118.45	28.88	39.726	
4,500.00	4,406.00	4,238.43	4,093.93	17.55	18.64	-124.11	-890.16	120.33	1,188.26	1,158.47	29.79	39.891	
4,600.00	4,502.58	4,329.66	4,179.46	18.10	19.27	-124.04	-921.78	123.31	1,229.18	1,198.49	30.69	40.045	
4,700.00	4,599.16	4,420.90	4,264.99	18.64	19.89	-123.98	-953.39	126.28	1,270.11	1,238.51	31.60	40.191	
4,800.00	4,695.74	4,512.13	4,350.51	19.19	20.52	-123.92	-985.01	129.26	1,311.04	1,278.53	32.51	40.327	
4,900.00	4,792.33	4,603.36	4,436.04	19.74	21.16	-123.86	-1,016.62	132.24	1,351.97	1,318.55	33.42	40.456	
5,000.00	4,888.91	4,694.59	4,521.57	20.29	21.79	-123.81	-1,048.24	135.22	1,392.90	1,358.57	34.33	40.578	

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:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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 8-27 - P_DRY CREEK 8-27 - 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
5,100.00	4,985.49	4,785.83	4,607.10	20.84	22.42	-123.76	-1,079.85	138.20	1,433.83	1,398.60	35.23	40.694	
5,200.00	5,082.07	4,877.06	4,692.62	21.39	23.05	-123.71	-1,111.47	141.18	1,474.76	1,438.62	36.14	40.804	
5,300.00	5,178.65	4,968.29	4,778.15	21.94	23.68	-123.67	-1,143.08	144.16	1,515.70	1,478.65	37.05	40.909	
5,400.00	5,275.23	5,059.52	4,863.68	22.49	24.32	-123.62	-1,174.70	147.13	1,556.63	1,518.67	37.96	41.009	
5,500.00	5,371.81	5,150.75	4,949.21	23.04	24.95	-123.58	-1,206.31	150.11	1,597.57	1,558.70	38.87	41.105	
5,600.00	5,468.40	5,241.99	5,034.73	23.59	25.58	-123.54	-1,237.93	153.09	1,638.50	1,598.73	39.77	41.196	
5,700.00	5,564.98	5,333.22	5,120.26	24.14	26.22	-123.51	-1,269.54	156.07	1,679.44	1,638.76	40.68	41.284	
5,718.00	5,582.37	5,349.64	5,135.66	24.24	26.33	-123.50	-1,275.23	156.61	1,686.81	1,645.97	40.84	41.300	
5,800.00	5,661.85	5,424.69	5,206.02	24.62	26.85	-124.04	-1,301.24	159.06	1,719.78	1,678.11	41.67	41.274	
5,900.00	5,759.52	5,516.83	5,292.39	24.98	27.49	-124.56	-1,333.17	162.07	1,758.36	1,715.80	42.56	41.311	
6,000.00	5,857.88	5,684.58	5,451.07	25.29	28.38	-124.80	-1,387.28	167.16	1,793.43	1,749.86	43.57	41.165	
6,100.00	5,956.80	5,869.89	5,629.70	25.56	29.13	-124.97	-1,436.22	171.77	1,822.07	1,777.62	44.45	40.989	
6,200.00	6,056.18	6,061.62	5,817.48	25.79	29.77	-125.10	-1,474.64	175.39	1,843.90	1,798.64	45.27	40.735	
6,300.00	6,155.88	6,258.20	6,012.23	25.98	30.26	-125.20	-1,500.96	177.87	1,858.65	1,812.70	45.95	40.449	
6,400.00	6,255.79	6,457.77	6,211.33	26.12	30.59	-125.27	-1,514.02	179.10	1,866.11	1,819.64	46.47	40.156	
6,469.23	6,325.01	6,571.47	6,325.01	26.19	30.71	134.93	-1,515.39	179.23	1,867.12	1,820.40	46.72	39.964	
6,500.00	6,355.78	6,602.24	6,355.78	26.23	30.74	134.93	-1,515.39	179.23	1,867.12	1,820.33	46.79	39.903	
6,600.00	6,455.78	6,702.24	6,455.78	26.34	30.82	134.93	-1,515.39	179.23	1,867.12	1,820.10	47.02	39.709	
6,700.00	6,555.78	6,802.24	6,555.78	26.45	30.90	134.93	-1,515.39	179.23	1,867.12	1,819.87	47.25	39.514	
6,800.00	6,655.78	6,902.24	6,655.78	26.57	30.98	134.93	-1,515.39	179.23	1,867.12	1,819.64	47.49	39.318	
6,900.00	6,755.78	7,002.24	6,755.78	26.68	31.07	134.93	-1,515.39	179.23	1,867.12	1,819.40	47.73	39.122	
7,000.00	6,855.78	7,102.24	6,855.78	26.80	31.16	134.93	-1,515.39	179.23	1,867.12	1,819.16	47.97	38.926	
7,100.00	6,955.78	7,202.24	6,955.78	26.92	31.24	134.93	-1,515.39	179.23	1,867.12	1,818.91	48.21	38.729	
7,200.00	7,055.78	7,302.24	7,055.78	27.04	31.33	134.93	-1,515.39	179.23	1,867.12	1,818.67	48.46	38.531	
7,300.00	7,155.78	7,402.24	7,155.78	27.16	31.42	134.93	-1,515.39	179.23	1,867.12	1,818.42	48.71	38.334	
7,400.00	7,255.78	7,502.24	7,255.78	27.29	31.52	134.93	-1,515.39	179.23	1,867.12	1,818.16	48.96	38.136	
7,500.00	7,355.78	7,602.24	7,355.78	27.41	31.61	134.93	-1,515.39	179.23	1,867.12	1,817.91	49.22	37.938	
7,600.00	7,455.78	7,702.24	7,455.78	27.54	31.70	134.93	-1,515.39	179.23	1,867.12	1,817.65	49.47	37.740	
7,700.00	7,555.78	7,802.24	7,555.78	27.67	31.80	134.93	-1,515.39	179.23	1,867.12	1,817.39	49.73	37.542	
7,800.00	7,655.78	7,902.24	7,655.78	27.79	31.90	134.93	-1,515.39	179.23	1,867.12	1,817.12	50.00	37.344	
7,900.00	7,755.78	8,002.24	7,755.78	27.92	32.00	134.93	-1,515.39	179.23	1,867.12	1,816.86	50.26	37.146	
8,000.00	7,855.78	8,102.24	7,855.78	28.05	32.09	134.93	-1,515.39	179.23	1,867.12	1,816.59	50.53	36.948	
8,100.00	7,955.78	8,202.24	7,955.78	28.19	32.20	134.93	-1,515.39	179.23	1,867.12	1,816.32	50.81	36.751	
8,200.00	8,055.78	8,302.24	8,055.78	28.32	32.30	134.93	-1,515.39	179.23	1,867.12	1,816.04	51.08	36.553	
8,300.00	8,155.78	8,402.24	8,155.78	28.45	32.40	134.93	-1,515.39	179.23	1,867.12	1,815.77	51.36	36.357	
8,400.00	8,255.78	8,502.24	8,255.78	28.59	32.51	134.93	-1,515.39	179.23	1,867.12	1,815.49	51.63	36.160	
8,406.32	8,262.10	8,508.56	8,262.10	28.60	32.51	134.93	-1,515.39	179.23	1,867.12	1,815.47	51.65	36.148	
8,441.23	8,297.02	8,518.47	8,272.02	28.65	32.52	134.93	-1,515.39	179.23	1,867.29	1,815.57	51.72	36.106	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 2-27	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: WELD_DRY CREEK PAD 6
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°



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Site WELD_DRY CREEK PAD 6
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 2-27	Survey Calculation Method:	Minimum Curvature
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Reference Design:	PLAN #1 10-27-09 RHS	Offset TVD Reference:	Offset Datum

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