



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DRY CREEK 12-35 PAD

P_DRY CREEK 14-35

P_DRY CREEK 14-35

Plan: PLAN #1 10-28-09 RHS

Standard Planning Report

28 October, 2009



P_DRY CREEK 14-35
COLORADO NORTHERN ZONE - 83
SECTION 35 T1N R67W
2011 FSL 500 FWL
LAT: 40° 0' 21.240 N
LONG: 104° 51' 55.296 W

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site:	WELD_DRY CREEK 12-35 PAD	North Reference:	True
Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 14-35		
Design:	PLAN #1 10-28-09 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 12-35 PAD, SECTION 35 T1N R67W											
Site Position:			Northing:			1,245,632.45 ft			Latitude:			40° 0' 21.240 N					
From:			Lat/Long			Easting:			3,177,810.59 ft			Longitude:			104° 51' 54.900 W		
Position Uncertainty:			5,044.00 ft			Slot Radius:			in			Grid Convergence:			0.41 °		

Well	P_DRY CREEK 14-35					
Well Position	+N/-S	-0.01 ft	Northing:	1,245,632.22 ft	Latitude:	40° 0' 21.240 N
	+E/-W	-30.81 ft	Easting:	3,177,779.78 ft	Longitude:	104° 51' 55.296 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,029.00 ft

Wellbore	P_DRY CREEK 14-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/28/2009	9.07	66.78	53,102

Design	PLAN #1 10-28-09 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	132.25

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	
1,443.16	24.86	132.25	1,404.51	-178.54	196.53	2.00	2.00	0.00	132.25	
4,960.11	24.86	132.25	4,595.49	-1,172.86	1,291.04	0.00	0.00	0.00	0.00	
6,203.27	0.00	0.00	5,800.00	-1,351.41	1,487.57	2.00	-2.00	0.00	180.00	
8,711.27	0.00	0.00	8,308.00	-1,351.41	1,487.57	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 14-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site:	WELD_DRY CREEK 12-35 PAD	North Reference:	True
Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 14-35		
Design:	PLAN #1 10-28-09 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build 2.00									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	2.00	132.25	299.98	-1.17	1.29	1.75	2.00	2.00	0.00
400.00	4.00	132.25	399.84	-4.69	5.17	6.98	2.00	2.00	0.00
500.00	6.00	132.25	499.45	-10.55	11.62	15.69	2.00	2.00	0.00
600.00	8.00	132.25	598.70	-18.75	20.64	27.88	2.00	2.00	0.00
700.00	10.00	132.25	697.47	-29.27	32.21	43.52	2.00	2.00	0.00
800.00	12.00	132.25	795.62	-42.10	46.34	62.60	2.00	2.00	0.00
900.00	14.00	132.25	893.06	-57.22	62.99	85.10	2.00	2.00	0.00
1,000.00	16.00	132.25	989.64	-74.62	82.14	110.98	2.00	2.00	0.00
1,100.00	18.00	132.25	1,085.27	-94.28	103.78	140.21	2.00	2.00	0.00
8 5/8"									
1,168.33	19.37	132.25	1,150.00	-109.00	119.98	162.10	2.00	2.00	0.00
1,200.00	20.00	132.25	1,179.82	-116.17	127.88	172.77	2.00	2.00	0.00
1,300.00	22.00	132.25	1,273.17	-140.27	154.40	208.60	2.00	2.00	0.00
1,400.00	24.00	132.25	1,365.21	-166.54	183.32	247.67	2.00	2.00	0.00
Start 3516.95 hold at 1443.16 MD									
1,443.16	24.86	132.25	1,404.51	-178.54	196.53	265.53	2.00	2.00	0.00
1,500.00	24.86	132.25	1,456.08	-194.61	214.22	289.42	0.00	0.00	0.00
1,600.00	24.86	132.25	1,546.81	-222.89	245.34	331.47	0.00	0.00	0.00
1,700.00	24.86	132.25	1,637.54	-251.16	276.46	373.51	0.00	0.00	0.00
1,800.00	24.86	132.25	1,728.28	-279.43	307.59	415.56	0.00	0.00	0.00
1,900.00	24.86	132.25	1,819.01	-307.70	338.71	457.61	0.00	0.00	0.00
2,000.00	24.86	132.25	1,909.74	-335.97	369.83	499.65	0.00	0.00	0.00
2,100.00	24.86	132.25	2,000.47	-364.25	400.95	541.70	0.00	0.00	0.00
2,200.00	24.86	132.25	2,091.20	-392.52	432.07	583.74	0.00	0.00	0.00
2,300.00	24.86	132.25	2,181.93	-420.79	463.19	625.79	0.00	0.00	0.00
2,400.00	24.86	132.25	2,272.66	-449.06	494.31	667.83	0.00	0.00	0.00
2,500.00	24.86	132.25	2,363.40	-477.34	525.43	709.88	0.00	0.00	0.00
2,600.00	24.86	132.25	2,454.13	-505.61	556.55	751.92	0.00	0.00	0.00
2,700.00	24.86	132.25	2,544.86	-533.88	587.67	793.97	0.00	0.00	0.00
2,800.00	24.86	132.25	2,635.59	-562.15	618.79	836.01	0.00	0.00	0.00
2,900.00	24.86	132.25	2,726.32	-590.42	649.91	878.06	0.00	0.00	0.00
3,000.00	24.86	132.25	2,817.05	-618.70	681.03	920.10	0.00	0.00	0.00
3,100.00	24.86	132.25	2,907.78	-646.97	712.16	962.15	0.00	0.00	0.00
3,200.00	24.86	132.25	2,998.51	-675.24	743.28	1,004.20	0.00	0.00	0.00
3,300.00	24.86	132.25	3,089.25	-703.51	774.40	1,046.24	0.00	0.00	0.00
PARKMAN TOP									
3,369.16	24.86	132.25	3,152.00	-723.07	795.92	1,075.32	0.00	0.00	0.00
3,400.00	24.86	132.25	3,179.98	-731.78	805.52	1,088.29	0.00	0.00	0.00
3,500.00	24.86	132.25	3,270.71	-760.06	836.64	1,130.33	0.00	0.00	0.00
3,600.00	24.86	132.25	3,361.44	-788.33	867.76	1,172.38	0.00	0.00	0.00
3,700.00	24.86	132.25	3,452.17	-816.60	898.88	1,214.42	0.00	0.00	0.00
3,800.00	24.86	132.25	3,542.90	-844.87	930.00	1,256.47	0.00	0.00	0.00
3,900.00	24.86	132.25	3,633.63	-873.15	961.12	1,298.51	0.00	0.00	0.00
4,000.00	24.86	132.25	3,724.37	-901.42	992.24	1,340.56	0.00	0.00	0.00
4,100.00	24.86	132.25	3,815.10	-929.69	1,023.36	1,382.60	0.00	0.00	0.00
4,200.00	24.86	132.25	3,905.83	-957.96	1,054.48	1,424.65	0.00	0.00	0.00
4,300.00	24.86	132.25	3,996.56	-986.23	1,085.60	1,466.69	0.00	0.00	0.00
4,400.00	24.86	132.25	4,087.29	-1,014.51	1,116.73	1,508.74	0.00	0.00	0.00
4,500.00	24.86	132.25	4,178.02	-1,042.78	1,147.85	1,550.79	0.00	0.00	0.00
4,600.00	24.86	132.25	4,268.75	-1,071.05	1,178.97	1,592.83	0.00	0.00	0.00
4,700.00	24.86	132.25	4,359.49	-1,099.32	1,210.09	1,634.88	0.00	0.00	0.00

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Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site:	WELD_DRY CREEK 12-35 PAD	North Reference:	True
Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 14-35		
Design:	PLAN #1 10-28-09 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,800.00	24.86	132.25	4,450.22	-1,127.59	1,241.21	1,676.92	0.00	0.00	0.00	
4,900.00	24.86	132.25	4,540.95	-1,155.87	1,272.33	1,718.97	0.00	0.00	0.00	
Start Drop -2.00										
4,960.11	24.86	132.25	4,595.49	-1,172.86	1,291.04	1,744.24	0.00	0.00	0.00	
5,000.00	24.07	132.25	4,631.80	-1,183.97	1,303.26	1,760.76	2.00	-2.00	0.00	
5,100.00	22.07	132.25	4,723.80	-1,210.31	1,332.26	1,799.94	2.00	-2.00	0.00	
SUSSEX TOP										
5,132.52	21.42	132.25	4,754.00	-1,218.41	1,341.17	1,811.98	2.00	-2.00	0.00	
5,200.00	20.07	132.25	4,817.11	-1,234.48	1,358.86	1,835.88	2.00	-2.00	0.00	
5,300.00	18.07	132.25	4,911.62	-1,256.44	1,383.04	1,868.54	2.00	-2.00	0.00	
5,400.00	16.07	132.25	5,007.21	-1,276.18	1,404.76	1,897.89	2.00	-2.00	0.00	
5,500.00	14.07	132.25	5,103.77	-1,293.65	1,424.00	1,923.88	2.00	-2.00	0.00	
5,600.00	12.07	132.25	5,201.17	-1,308.85	1,440.73	1,946.48	2.00	-2.00	0.00	
5,700.00	10.07	132.25	5,299.31	-1,321.76	1,454.93	1,965.67	2.00	-2.00	0.00	
5,800.00	8.07	132.25	5,398.06	-1,332.35	1,466.60	1,981.43	2.00	-2.00	0.00	
5,900.00	6.07	132.25	5,497.29	-1,340.62	1,475.70	1,993.73	2.00	-2.00	0.00	
6,000.00	4.07	132.25	5,596.90	-1,346.56	1,482.24	2,002.56	2.00	-2.00	0.00	
6,100.00	2.07	132.25	5,696.75	-1,350.15	1,486.19	2,007.91	2.00	-2.00	0.00	
6,200.00	0.07	132.25	5,796.73	-1,351.41	1,487.57	2,009.77	2.00	-2.00	0.00	
Start 2508.00 hold at 6203.27 MD										
6,203.27	0.00	0.00	5,800.00	-1,351.41	1,487.57	2,009.77	2.00	-2.00	0.00	
6,300.00	0.00	0.00	5,896.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
6,400.00	0.00	0.00	5,996.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,096.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,196.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,296.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,396.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,496.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,596.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,696.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,796.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,300.00	0.00	0.00	6,896.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,400.00	0.00	0.00	6,996.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,096.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,196.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,296.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
NIO A TOP										
7,739.27	0.00	0.00	7,336.00	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,396.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,496.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,596.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,696.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
CODELL TOP										
8,139.27	0.00	0.00	7,736.00	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,796.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,300.00	0.00	0.00	7,896.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,400.00	0.00	0.00	7,996.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,096.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
JSAND TOP										
8,576.27	0.00	0.00	8,173.00	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,196.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,296.73	-1,351.41	1,487.57	2,009.77	0.00	0.00	0.00	
PBHL_DRY CREEK 14-35(660 FSL 1980 FWL)50' TGT RAD										

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Project:	COLORADO NOTHERN ZONE - 83	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site:	WELD_DRY CREEK 12-35 PAD	North Reference:	True
Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 14-35		
Design:	PLAN #1 10-28-09 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,711.27	0.00	0.00	8,308.00	-1,351.41	1,487.57	2,009.77	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 1	0.00	0.00	8,308.00	-1,351.41	1,487.57	1,244,291.50	3,179,276.98	40° 0' 7.884 N	104° 51' 36.180 W
- plan hits target center									
- Circle (radius 50.00)									

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

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,369.16	3,152.00	PARKMAN TOP			
5,132.52	4,754.00	SUSSEX TOP			
7,739.27	7,336.00	NIO A TOP			
8,139.27	7,736.00	CODELL TOP			
8,576.27	8,173.00	JSAND TOP			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 2.00
1,443.16	1,404.51	-178.54	196.53	Start 3516.95 hold at 1443.16 MD
4,960.11	4,595.49	-1,172.86	1,291.04	Start Drop -2.00
6,203.27	5,800.00	-1,351.41	1,487.57	Start 2508.00 hold at 6203.27 MD
8,711.27	8,308.00	-1,351.41	1,487.57	TD at 8711.27



US ROCKIES REGION PLANNING

**COLORADO NOTHERN ZONE - 83
WELD_DRY CREEK 12-35 PAD
P_DRY CREEK 14-35**

**P_DRY CREEK 14-35
PLAN #1 10-28-09 RHS**

Anticollision Report

28 October, 2009



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Reference	PLAN #1 10-28-09 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	10/28/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,711.27	PLAN #1 10-28-09 RHS (P_DRY CREEK	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
WELD_DRY CREEK 12-35 PAD						
P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #	200.00	200.00	30.81	30.17	48.103	CC, ES
P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #	800.00	790.56	61.48	57.66	16.081	SF
P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #	200.00	200.00	33.62	32.98	52.477	CC, ES
P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #	3,900.00	3,735.50	1,026.86	977.09	20.633	SF
P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #	200.00	200.00	16.81	16.17	26.238	CC
P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #	300.00	299.44	17.18	16.12	16.301	ES
P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #	800.00	795.59	37.16	33.26	9.525	SF
P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #	200.00	200.00	16.81	16.17	26.238	CC, ES
P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #	8,711.27	8,724.83	896.81	810.65	10.409	SF
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	200.00	181.00	91.09	85.53	16.382	CC
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	300.00	280.98	92.83	83.07	9.513	ES
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	800.00	776.62	153.65	123.57	5.108	SF

Offset Design		WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #1 10-28-09 F										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	89.99	0.00	30.81	30.81					
100.00	100.00	100.00	100.00	0.10	0.10	89.99	0.00	30.81	30.81	30.62	0.19	161.288		
200.00	200.00	200.00	200.00	0.32	0.32	89.99	0.00	30.81	30.81	30.17	0.64	48.103	CC, ES	
300.00	299.98	298.92	298.90	0.53	0.53	-44.31	-0.03	32.52	31.27	30.21	1.06	29.615		
400.00	399.84	397.76	397.60	0.74	0.75	-50.08	-0.15	37.64	32.86	31.39	1.48	22.273		
500.00	499.45	496.42	495.89	0.99	1.00	-58.37	-0.34	46.13	36.17	34.23	1.94	18.637		
600.00	598.70	594.83	593.58	1.28	1.28	-67.45	-0.61	57.97	41.82	39.35	2.47	16.913		
700.00	697.47	692.90	690.47	1.62	1.61	-75.79	-0.95	73.10	50.22	47.13	3.10	16.224		
800.00	795.62	790.56	786.38	2.01	1.98	-82.65	-1.37	91.45	61.48	57.66	3.82	16.081	SF	
900.00	893.06	887.72	881.14	2.46	2.40	-87.97	-1.85	112.95	75.52	70.86	4.66	16.209		
1,000.00	989.64	984.32	974.56	2.97	2.88	-91.99	-2.41	137.48	92.22	86.62	5.61	16.451		
1,100.00	1,085.27	1,080.30	1,066.51	3.55	3.42	-94.99	-3.03	164.97	111.46	104.79	6.66	16.726		
1,200.00	1,179.82	1,175.58	1,156.84	4.19	4.02	-97.23	-3.71	195.29	133.11	125.28	7.83	16.995		
1,300.00	1,273.17	1,270.12	1,245.41	4.90	4.67	-98.91	-4.46	228.32	157.09	147.98	9.11	17.239		
1,400.00	1,365.21	1,363.86	1,332.11	5.69	5.38	-100.16	-5.27	263.94	183.32	172.81	10.50	17.453		
1,443.16	1,404.51	1,404.07	1,368.93	6.04	5.69	-100.59	-5.63	280.08	195.31	184.18	11.13	17.546		

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 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #1 10-28-09 F												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,500.00	1,456.08	1,457.45	1,417.49	6.53	6.14	-101.29	-6.13	302.24	211.57	199.57	12.00	17.631	
1,600.00	1,546.81	1,553.14	1,504.39	7.38	6.95	-102.23	-7.04	342.29	240.39	226.83	13.56	17.728	
1,700.00	1,637.54	1,648.83	1,591.30	8.24	7.77	-102.97	-7.94	382.33	269.26	254.13	15.13	17.792	
1,800.00	1,728.28	1,744.52	1,678.20	9.11	8.60	-103.56	-8.85	422.37	298.16	281.44	16.72	17.837	
1,900.00	1,819.01	1,840.21	1,765.11	9.97	9.43	-104.06	-9.75	462.42	327.08	308.78	18.31	17.868	
2,000.00	1,909.74	1,935.90	1,852.01	10.85	10.26	-104.47	-10.66	502.46	356.03	336.13	19.90	17.891	
2,100.00	2,000.47	2,031.59	1,938.92	11.72	11.09	-104.82	-11.56	542.50	384.98	363.48	21.50	17.907	
2,200.00	2,091.20	2,127.29	2,025.83	12.59	11.93	-105.12	-12.47	582.54	413.95	390.85	23.10	17.919	
2,300.00	2,181.93	2,222.98	2,112.73	13.47	12.77	-105.38	-13.37	622.59	442.93	418.22	24.71	17.929	
2,400.00	2,272.66	2,318.67	2,199.64	14.34	13.61	-105.61	-14.28	662.63	471.91	445.60	26.31	17.935	
2,500.00	2,363.40	2,414.36	2,286.54	15.22	14.45	-105.81	-15.18	702.67	500.91	472.99	27.92	17.941	
2,600.00	2,454.13	2,510.05	2,373.45	16.10	15.29	-105.99	-16.09	742.72	529.90	500.37	29.53	17.944	
2,700.00	2,544.86	2,605.74	2,460.35	16.98	16.13	-106.15	-16.99	782.76	558.90	527.76	31.14	17.947	
2,800.00	2,635.59	2,701.43	2,547.26	17.86	16.97	-106.30	-17.90	822.80	587.91	555.15	32.75	17.950	
2,900.00	2,726.32	2,797.12	2,634.16	18.74	17.81	-106.43	-18.80	862.85	616.91	582.55	34.37	17.951	
3,000.00	2,817.05	2,892.81	2,721.07	19.62	18.66	-106.55	-19.71	902.89	645.92	609.94	35.98	17.952	
3,100.00	2,907.78	2,988.51	2,807.97	20.50	19.50	-106.66	-20.61	942.93	674.94	637.34	37.59	17.953	
3,200.00	2,998.51	3,084.20	2,894.88	21.38	20.34	-106.76	-21.52	982.97	703.95	664.74	39.21	17.954	
3,300.00	3,089.25	3,179.89	2,981.78	22.26	21.19	-106.86	-22.42	1,023.02	732.97	692.14	40.82	17.954	
3,400.00	3,179.98	3,275.58	3,068.69	23.14	22.03	-106.94	-23.33	1,063.06	761.99	719.54	42.44	17.954	
3,500.00	3,270.71	3,371.27	3,155.60	24.02	22.88	-107.02	-24.23	1,103.10	791.00	746.95	44.06	17.954	
3,600.00	3,361.44	3,466.96	3,242.50	24.90	23.72	-107.09	-25.14	1,143.15	820.03	774.35	45.67	17.954	
3,700.00	3,452.17	3,562.65	3,329.41	25.79	24.57	-107.16	-26.05	1,183.19	849.05	801.76	47.29	17.954	
3,800.00	3,542.90	3,660.35	3,418.16	26.67	25.41	-107.23	-26.97	1,224.01	878.05	829.15	48.91	17.954	
3,900.00	3,633.63	3,767.70	3,516.76	27.55	26.16	-107.47	-27.93	1,266.45	906.24	855.81	50.43	17.969	
4,000.00	3,724.37	3,875.47	3,617.27	28.43	26.83	-107.93	-28.81	1,305.30	933.23	881.35	51.88	17.988	
4,100.00	3,815.10	3,983.35	3,719.27	29.31	27.43	-108.60	-29.60	1,340.38	959.09	905.82	53.26	18.006	
4,200.00	3,905.83	4,091.03	3,822.34	30.20	27.97	-109.46	-30.30	1,371.55	983.90	929.32	54.58	18.027	
4,300.00	3,996.56	4,198.22	3,926.02	31.08	28.44	-110.49	-30.92	1,398.70	1,007.79	951.98	55.81	18.057	
4,400.00	4,087.29	4,304.61	4,029.87	31.96	28.84	-111.68	-31.44	1,421.80	1,030.92	973.96	56.95	18.102	
4,500.00	4,178.02	4,409.93	4,133.44	32.84	29.18	-113.00	-31.87	1,440.85	1,053.46	995.47	57.99	18.165	
4,600.00	4,268.75	4,513.91	4,236.32	33.73	29.46	-114.44	-32.21	1,455.92	1,075.61	1,016.68	58.93	18.252	
4,700.00	4,359.49	4,616.32	4,338.11	34.61	29.68	-115.99	-32.46	1,467.10	1,097.59	1,037.83	59.76	18.367	
4,800.00	4,450.22	4,716.93	4,438.44	35.49	29.84	-117.63	-32.63	1,474.53	1,119.61	1,059.14	60.47	18.515	
4,900.00	4,540.95	4,815.54	4,536.97	36.37	29.96	-119.34	-32.72	1,478.39	1,141.90	1,080.83	61.07	18.698	
4,960.11	4,595.49	4,873.79	4,595.22	36.90	30.00	-120.40	-32.73	1,479.08	1,155.53	1,094.16	61.37	18.828	
5,000.00	4,631.80	4,910.37	4,631.80	37.21	30.03	-121.21	-32.73	1,479.09	1,164.58	1,103.03	61.55	18.920	
5,100.00	4,723.80	5,002.37	4,723.80	37.85	30.10	-123.12	-32.73	1,479.09	1,186.70	1,124.81	61.89	19.175	
5,200.00	4,817.11	5,095.68	4,817.11	38.44	30.16	-124.84	-32.73	1,479.09	1,207.74	1,145.58	62.17	19.427	
5,300.00	4,911.62	5,190.19	4,911.62	38.98	30.24	-126.37	-32.73	1,479.09	1,227.47	1,165.07	62.41	19.669	
5,400.00	5,007.21	5,285.79	5,007.21	39.46	30.31	-127.72	-32.73	1,479.09	1,245.66	1,183.05	62.61	19.895	
5,500.00	5,103.77	5,382.34	5,103.77	39.89	30.38	-128.90	-32.73	1,479.09	1,262.12	1,199.33	62.79	20.102	
5,600.00	5,201.17	5,479.75	5,201.17	40.27	30.46	-129.90	-32.73	1,479.09	1,276.69	1,213.75	62.94	20.284	
5,700.00	5,299.31	5,577.89	5,299.31	40.60	30.54	-130.74	-32.73	1,479.09	1,289.25	1,226.17	63.08	20.439	
5,800.00	5,398.06	5,676.63	5,398.06	40.88	30.62	-131.42	-32.73	1,479.09	1,299.68	1,236.48	63.20	20.564	
5,900.00	5,497.29	5,775.87	5,497.29	41.10	30.70	-131.95	-32.73	1,479.09	1,307.89	1,244.58	63.32	20.656	
6,000.00	5,596.90	5,875.47	5,596.90	41.28	30.79	-132.32	-32.73	1,479.09	1,313.83	1,250.40	63.42	20.715	
6,100.00	5,696.75	5,975.32	5,696.75	41.40	30.87	-132.54	-32.73	1,479.09	1,317.44	1,253.91	63.53	20.738	
6,203.27	5,800.00	6,078.58	5,800.00	41.49	30.97	-0.37	-32.73	1,479.09	1,318.70	1,255.06	63.64	20.723	
6,300.00	5,896.73	6,175.30	5,896.73	41.55	31.05	-0.37	-32.73	1,479.09	1,318.70	1,254.91	63.79	20.671	
6,400.00	5,996.73	6,275.30	5,996.73	41.61	31.14	-0.37	-32.73	1,479.09	1,318.70	1,254.74	63.96	20.617	
6,500.00	6,096.73	6,375.30	6,096.73	41.67	31.23	-0.37	-32.73	1,479.09	1,318.70	1,254.57	64.13	20.562	

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 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #1 10-28-09 F												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,600.00	6,196.73	6,475.30	6,196.73	41.73	31.33	-0.37	-32.73	1,479.09	1,318.70	1,254.40	64.30	20.507	
6,700.00	6,296.73	6,575.30	6,296.73	41.79	31.42	-0.37	-32.73	1,479.09	1,318.70	1,254.22	64.48	20.451	
6,800.00	6,396.73	6,675.30	6,396.73	41.86	31.52	-0.37	-32.73	1,479.09	1,318.70	1,254.04	64.66	20.395	
6,900.00	6,496.73	6,775.30	6,496.73	41.92	31.61	-0.37	-32.73	1,479.09	1,318.70	1,253.86	64.84	20.338	
7,000.00	6,596.73	6,875.30	6,596.73	41.99	31.71	-0.37	-32.73	1,479.09	1,318.70	1,253.68	65.02	20.281	
7,100.00	6,696.73	6,975.30	6,696.73	42.06	31.81	-0.37	-32.73	1,479.09	1,318.70	1,253.49	65.21	20.223	
7,200.00	6,796.73	7,075.30	6,796.73	42.13	31.91	-0.37	-32.73	1,479.09	1,318.70	1,253.30	65.40	20.165	
7,300.00	6,896.73	7,175.30	6,896.73	42.20	32.02	-0.37	-32.73	1,479.09	1,318.70	1,253.11	65.59	20.106	
7,400.00	6,996.73	7,275.30	6,996.73	42.27	32.12	-0.37	-32.73	1,479.09	1,318.70	1,252.92	65.78	20.047	
7,500.00	7,096.73	7,375.30	7,096.73	42.34	32.22	-0.37	-32.73	1,479.09	1,318.70	1,252.72	65.98	19.988	
7,600.00	7,196.73	7,475.30	7,196.73	42.41	32.33	-0.37	-32.73	1,479.09	1,318.70	1,252.53	66.17	19.928	
7,700.00	7,296.73	7,575.30	7,296.73	42.49	32.44	-0.37	-32.73	1,479.09	1,318.70	1,252.32	66.38	19.867	
7,800.00	7,396.73	7,675.30	7,396.73	42.56	32.54	-0.37	-32.73	1,479.09	1,318.70	1,252.12	66.58	19.807	
7,900.00	7,496.73	7,775.30	7,496.73	42.64	32.65	-0.37	-32.73	1,479.09	1,318.70	1,251.92	66.78	19.746	
8,000.00	7,596.73	7,875.30	7,596.73	42.72	32.76	-0.37	-32.73	1,479.09	1,318.70	1,251.71	66.99	19.684	
8,100.00	7,696.73	7,975.30	7,696.73	42.80	32.88	-0.37	-32.73	1,479.09	1,318.70	1,251.50	67.20	19.623	
8,200.00	7,796.73	8,075.30	7,796.73	42.88	32.99	-0.37	-32.73	1,479.09	1,318.70	1,251.28	67.42	19.561	
8,300.00	7,896.73	8,175.30	7,896.73	42.96	33.10	-0.37	-32.73	1,479.09	1,318.70	1,251.07	67.63	19.499	
8,400.00	7,996.73	8,275.30	7,996.73	43.04	33.22	-0.37	-32.73	1,479.09	1,318.70	1,250.85	67.85	19.436	
8,500.00	8,096.73	8,375.30	8,096.73	43.12	33.33	-0.37	-32.73	1,479.09	1,318.70	1,250.63	68.07	19.373	
8,600.00	8,196.73	8,475.30	8,196.73	43.20	33.45	-0.37	-32.73	1,479.09	1,318.70	1,250.41	68.29	19.310	
8,700.00	8,296.73	8,575.30	8,296.73	43.29	33.57	-0.37	-32.73	1,479.09	1,318.70	1,250.19	68.51	19.247	
8,711.27	8,308.00	8,586.58	8,308.00	43.30	33.58	-0.37	-32.73	1,479.09	1,318.70	1,250.16	68.54	19.240	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #1 10-28-09 F												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	-90.01	0.00	-33.62	33.62				
100.00	100.00	100.00	100.00	0.10	0.10	-90.01	0.00	-33.62	33.62	33.42	0.19	175.951	
200.00	200.00	200.00	200.00	0.32	0.32	-90.01	0.00	-33.62	33.62	32.98	0.64	52.477 CC, ES	
300.00	299.98	300.02	300.00	0.53	0.52	136.78	-1.75	-33.55	34.85	33.80	1.05	33.302	
400.00	399.84	399.94	399.77	0.74	0.73	134.28	-6.97	-33.37	38.60	37.14	1.46	26.397	
500.00	499.45	499.63	499.08	0.99	0.97	131.04	-15.65	-33.06	44.97	43.03	1.94	23.152	
600.00	598.70	599.00	597.71	1.28	1.26	127.79	-27.73	-32.63	54.03	51.53	2.50	21.646	
700.00	697.47	697.93	695.43	1.62	1.59	124.90	-43.14	-32.09	65.81	62.68	3.14	20.986	
800.00	795.62	796.34	792.04	2.01	1.97	122.49	-61.81	-31.42	80.30	76.43	3.87	20.739	
900.00	893.06	894.12	887.35	2.46	2.40	120.52	-83.63	-30.65	97.46	92.75	4.71	20.689	
1,000.00	989.64	991.19	981.17	2.97	2.89	118.90	-108.50	-29.77	117.23	111.58	5.66	20.729	
1,100.00	1,085.27	1,087.46	1,073.34	3.55	3.42	117.57	-136.28	-28.78	139.57	132.86	6.71	20.804	
1,200.00	1,179.82	1,182.86	1,163.69	4.19	4.01	116.44	-166.85	-27.70	164.42	156.54	7.87	20.889	
1,300.00	1,273.17	1,277.32	1,252.10	4.90	4.65	115.46	-200.07	-26.52	191.71	182.57	9.14	20.970	
1,400.00	1,365.21	1,370.77	1,338.45	5.69	5.33	114.59	-235.78	-25.25	221.39	210.87	10.52	21.044	
1,443.16	1,404.51	1,410.78	1,375.06	6.04	5.63	114.23	-251.92	-24.68	234.92	223.78	11.14	21.081	
1,500.00	1,456.08	1,463.72	1,423.16	6.53	6.05	114.04	-274.02	-23.90	253.16	241.16	12.00	21.090	
1,600.00	1,546.81	1,558.38	1,509.02	7.38	6.81	113.67	-313.85	-22.48	285.37	271.82	13.55	21.067	
1,700.00	1,637.54	1,653.04	1,594.88	8.24	7.58	113.38	-353.68	-21.07	317.58	302.49	15.10	21.035	
1,800.00	1,728.28	1,747.70	1,680.73	9.11	8.35	113.15	-393.51	-19.66	349.81	333.15	16.66	21.000	
1,900.00	1,819.01	1,842.35	1,766.59	9.97	9.12	112.95	-433.35	-18.25	382.03	363.81	18.22	20.965	
2,000.00	1,909.74	1,937.01	1,852.45	10.85	9.90	112.79	-473.18	-16.83	414.26	394.47	19.79	20.931	
2,100.00	2,000.47	2,031.67	1,938.30	11.72	10.68	112.64	-513.01	-15.42	446.50	425.13	21.36	20.900	
2,200.00	2,091.20	2,126.33	2,024.16	12.59	11.45	112.52	-552.84	-14.01	478.73	455.79	22.94	20.871	
2,300.00	2,181.93	2,220.98	2,110.02	13.47	12.23	112.41	-592.68	-12.60	510.97	486.45	24.51	20.844	
2,400.00	2,272.66	2,315.64	2,195.87	14.34	13.02	112.32	-632.51	-11.18	543.21	517.11	26.09	20.820	
2,500.00	2,363.40	2,410.30	2,281.73	15.22	13.80	112.23	-672.34	-9.77	575.44	547.78	27.67	20.798	
2,600.00	2,454.13	2,504.96	2,367.59	16.10	14.58	112.16	-712.17	-8.36	607.68	578.44	29.25	20.778	
2,700.00	2,544.86	2,599.61	2,453.44	16.98	15.36	112.09	-752.01	-6.94	639.93	609.10	30.83	20.760	
2,800.00	2,635.59	2,694.27	2,539.30	17.86	16.14	112.03	-791.84	-5.53	672.17	639.76	32.40	20.743	
2,900.00	2,726.32	2,788.93	2,625.16	18.74	16.93	111.97	-831.67	-4.12	704.41	670.43	33.98	20.728	
3,000.00	2,817.05	2,883.59	2,711.01	19.62	17.71	111.92	-871.50	-2.71	736.65	701.09	35.56	20.714	
3,100.00	2,907.78	2,978.24	2,796.87	20.50	18.50	111.88	-911.34	-1.29	768.90	731.75	37.14	20.701	
3,200.00	2,998.51	3,072.90	2,882.73	21.38	19.28	111.83	-951.17	0.12	801.14	762.42	38.72	20.690	
3,300.00	3,089.25	3,167.56	2,968.59	22.26	20.06	111.80	-991.00	1.53	833.38	793.08	40.30	20.679	
3,400.00	3,179.98	3,262.21	3,054.44	23.14	20.85	111.76	-1,030.83	2.94	865.63	823.75	41.88	20.670	
3,500.00	3,270.71	3,356.87	3,140.30	24.02	21.63	111.73	-1,070.67	4.36	897.87	854.42	43.46	20.661	
3,600.00	3,361.44	3,451.53	3,226.16	24.90	22.42	111.69	-1,110.50	5.77	930.12	885.08	45.04	20.653	
3,700.00	3,452.17	3,546.19	3,312.01	25.79	23.20	111.66	-1,150.33	7.18	962.36	915.75	46.61	20.646	
3,800.00	3,542.90	3,640.84	3,397.87	26.67	23.99	111.64	-1,190.16	8.59	994.61	946.42	48.19	20.639	
3,900.00	3,633.63	3,735.50	3,483.73	27.55	24.77	111.61	-1,230.00	10.01	1,026.86	977.09	49.77	20.633 SF	
4,000.00	3,724.37	3,842.44	3,581.38	28.43	25.47	111.67	-1,273.53	11.55	1,058.62	1,007.35	51.26	20.651	
4,100.00	3,815.10	3,951.66	3,682.72	29.31	26.06	111.94	-1,314.23	12.99	1,089.15	1,036.50	52.65	20.687	
4,200.00	3,905.83	4,061.31	3,785.95	30.20	26.60	112.40	-1,351.17	14.31	1,118.46	1,064.47	53.99	20.715	
4,300.00	3,996.56	4,171.06	3,890.60	31.08	27.11	113.04	-1,384.17	15.48	1,146.63	1,091.35	55.28	20.742	
4,400.00	4,087.29	4,280.58	3,996.23	31.96	27.56	113.85	-1,413.08	16.50	1,173.73	1,117.23	56.50	20.773	
4,500.00	4,178.02	4,389.57	4,102.36	32.84	27.96	114.80	-1,437.82	17.38	1,199.89	1,142.24	57.65	20.813	
4,600.00	4,268.75	4,497.70	4,208.51	33.73	28.31	115.89	-1,458.36	18.11	1,225.25	1,166.54	58.71	20.868	
4,700.00	4,359.49	4,604.70	4,314.24	34.61	28.60	117.10	-1,474.74	18.69	1,249.97	1,190.28	59.68	20.944	
4,800.00	4,450.22	4,710.27	4,419.09	35.49	28.83	118.41	-1,487.02	19.12	1,274.22	1,213.67	60.55	21.045	
4,900.00	4,540.95	4,814.18	4,522.66	36.37	29.00	119.81	-1,495.32	19.42	1,298.21	1,236.90	61.31	21.176	
4,960.11	4,595.49	4,875.74	4,584.14	36.90	29.08	120.69	-1,498.47	19.53	1,312.58	1,250.88	61.71	21.271	

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 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #1 10-28-09 F												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,631.80	4,916.31	4,624.69	37.21	29.13	121.44	-1,499.82	19.58	1,321.99	1,260.05	61.94	21.342	
5,100.00	4,723.80	5,015.43	4,723.80	37.85	29.21	123.24	-1,500.81	19.61	1,344.41	1,282.06	62.35	21.561	
5,200.00	4,817.11	5,108.74	4,817.11	38.44	29.27	124.80	-1,500.81	19.61	1,365.48	1,302.79	62.69	21.782	
5,300.00	4,911.62	5,203.25	4,911.62	38.98	29.33	126.19	-1,500.81	19.61	1,385.15	1,322.19	62.97	21.998	
5,400.00	5,007.21	5,298.84	5,007.21	39.46	29.39	127.43	-1,500.81	19.61	1,403.24	1,340.04	63.20	22.203	
5,500.00	5,103.77	5,395.40	5,103.77	39.89	29.45	128.50	-1,500.81	19.61	1,419.58	1,356.19	63.40	22.392	
5,600.00	5,201.17	5,492.81	5,201.17	40.27	29.52	129.42	-1,500.81	19.61	1,434.02	1,370.46	63.56	22.562	
5,700.00	5,299.31	5,590.94	5,299.31	40.60	29.59	130.20	-1,500.81	19.61	1,446.45	1,382.75	63.70	22.707	
5,800.00	5,398.06	5,689.69	5,398.06	40.88	29.66	130.82	-1,500.81	19.61	1,456.76	1,392.94	63.82	22.826	
5,900.00	5,497.29	5,788.92	5,497.29	41.10	29.73	131.31	-1,500.81	19.61	1,464.87	1,400.95	63.92	22.916	
6,000.00	5,596.90	5,888.53	5,596.90	41.28	29.80	131.65	-1,500.81	19.61	1,470.73	1,406.72	64.02	22.973	
6,100.00	5,696.75	5,988.38	5,696.75	41.40	29.87	131.86	-1,500.81	19.61	1,474.30	1,410.19	64.11	22.998	
6,203.27	5,800.00	6,091.63	5,800.00	41.49	29.95	-95.81	-1,500.81	19.61	1,475.54	1,411.34	64.20	22.982	
6,300.00	5,896.73	6,188.36	5,896.73	41.55	30.03	-95.81	-1,500.81	19.61	1,475.54	1,411.19	64.35	22.930	
6,400.00	5,996.73	6,288.36	5,996.73	41.61	30.11	-95.81	-1,500.81	19.61	1,475.54	1,411.04	64.50	22.877	
6,500.00	6,096.73	6,388.36	6,096.73	41.67	30.19	-95.81	-1,500.81	19.61	1,475.54	1,410.89	64.65	22.824	
6,600.00	6,196.73	6,488.36	6,196.73	41.73	30.27	-95.81	-1,500.81	19.61	1,475.54	1,410.74	64.80	22.770	
6,700.00	6,296.73	6,588.36	6,296.73	41.79	30.35	-95.81	-1,500.81	19.61	1,475.54	1,410.58	64.96	22.715	
6,800.00	6,396.73	6,688.36	6,396.73	41.86	30.44	-95.81	-1,500.81	19.61	1,475.54	1,410.42	65.12	22.659	
6,900.00	6,496.73	6,788.36	6,496.73	41.92	30.53	-95.81	-1,500.81	19.61	1,475.54	1,410.26	65.28	22.603	
7,000.00	6,596.73	6,888.36	6,596.73	41.99	30.61	-95.81	-1,500.81	19.61	1,475.54	1,410.10	65.45	22.546	
7,100.00	6,696.73	6,988.36	6,696.73	42.06	30.70	-95.81	-1,500.81	19.61	1,475.54	1,409.93	65.61	22.488	
7,200.00	6,796.73	7,088.36	6,796.73	42.13	30.79	-95.81	-1,500.81	19.61	1,475.54	1,409.76	65.78	22.430	
7,300.00	6,896.73	7,188.36	6,896.73	42.20	30.89	-95.81	-1,500.81	19.61	1,475.54	1,409.58	65.96	22.371	
7,400.00	6,996.73	7,288.36	6,996.73	42.27	30.98	-95.81	-1,500.81	19.61	1,475.54	1,409.41	66.13	22.312	
7,500.00	7,096.73	7,388.36	7,096.73	42.34	31.07	-95.81	-1,500.81	19.61	1,475.54	1,409.23	66.31	22.252	
7,600.00	7,196.73	7,488.36	7,196.73	42.41	31.17	-95.81	-1,500.81	19.61	1,475.54	1,409.05	66.49	22.191	
7,700.00	7,296.73	7,588.36	7,296.73	42.49	31.27	-95.81	-1,500.81	19.61	1,475.54	1,408.87	66.68	22.130	
7,800.00	7,396.73	7,688.36	7,396.73	42.56	31.37	-95.81	-1,500.81	19.61	1,475.54	1,408.68	66.86	22.068	
7,900.00	7,496.73	7,788.36	7,496.73	42.64	31.47	-95.81	-1,500.81	19.61	1,475.54	1,408.49	67.05	22.006	
8,000.00	7,596.73	7,888.36	7,596.73	42.72	31.57	-95.81	-1,500.81	19.61	1,475.54	1,408.30	67.24	21.944	
8,100.00	7,696.73	7,988.36	7,696.73	42.80	31.67	-95.81	-1,500.81	19.61	1,475.54	1,408.11	67.44	21.881	
8,200.00	7,796.73	8,088.36	7,796.73	42.88	31.77	-95.81	-1,500.81	19.61	1,475.54	1,407.91	67.63	21.817	
8,300.00	7,896.73	8,188.36	7,896.73	42.96	31.88	-95.81	-1,500.81	19.61	1,475.54	1,407.71	67.83	21.753	
8,400.00	7,996.73	8,208.63	7,917.00	43.04	31.90	-95.81	-1,500.81	19.61	1,477.69	1,409.75	67.95	21.748	
8,500.00	8,096.73	8,208.63	7,917.00	43.12	31.90	-95.81	-1,500.81	19.61	1,486.45	1,418.41	68.04	21.846	
8,600.00	8,196.73	8,208.63	7,917.00	43.20	31.90	-95.81	-1,500.81	19.61	1,501.82	1,433.68	68.14	22.041	
8,700.00	8,296.73	8,208.63	7,917.00	43.29	31.90	-95.81	-1,500.81	19.61	1,523.62	1,455.38	68.24	22.329	
8,711.27	8,308.00	8,208.63	7,917.00	43.30	31.90	-95.81	-1,500.81	19.61	1,526.47	1,458.22	68.25	22.367	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #1 10-28-09 F												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	90.01	0.00	16.81	16.81				
100.00	100.00	100.00	100.00	0.10	0.10	90.01	0.00	16.81	16.81	16.62	0.19	87.975	
200.00	200.00	200.00	200.00	0.32	0.32	90.01	0.00	16.81	16.81	16.17	0.64	26.238 CC	
300.00	299.98	299.44	299.42	0.53	0.53	-44.32	-0.54	18.45	17.18	16.12	1.05	16.301 ES	
400.00	399.84	398.85	398.69	0.74	0.75	-50.04	-2.17	23.36	18.40	16.93	1.47	12.500	
500.00	499.45	498.20	497.66	0.99	1.00	-57.90	-4.86	31.53	20.79	18.85	1.94	10.692	
600.00	598.70	597.46	596.19	1.28	1.28	-66.10	-8.63	42.95	24.63	22.14	2.49	9.880	
700.00	697.47	696.60	694.11	1.62	1.61	-73.35	-13.45	57.58	30.08	26.94	3.14	9.576	
800.00	795.62	795.59	791.31	2.01	2.00	-79.17	-19.33	75.39	37.16	33.26	3.90	9.525 SF	
900.00	893.06	894.40	887.62	2.46	2.44	-83.64	-26.24	96.34	45.85	41.07	4.78	9.591	
1,000.00	989.64	993.02	982.93	2.97	2.93	-87.01	-34.17	120.38	56.07	50.29	5.78	9.700	
1,100.00	1,085.27	1,091.40	1,077.09	3.55	3.50	-89.54	-43.10	147.45	67.78	60.87	6.90	9.817	
1,200.00	1,179.82	1,189.54	1,169.98	4.19	4.12	-91.45	-53.01	177.50	80.92	72.77	8.15	9.925	
1,300.00	1,273.17	1,287.40	1,261.48	4.90	4.81	-92.90	-63.88	210.45	95.46	85.94	9.53	10.018	
1,400.00	1,365.21	1,384.98	1,351.48	5.69	5.57	-94.01	-75.69	246.25	111.37	100.33	11.03	10.093	
1,443.16	1,404.51	1,427.36	1,390.22	6.04	5.91	-94.47	-81.07	262.56	118.60	106.88	11.72	10.118	
1,500.00	1,456.08	1,483.35	1,441.39	6.53	6.38	-95.35	-88.19	284.15	128.19	115.54	12.65	10.133	
1,600.00	1,546.81	1,581.87	1,531.42	7.38	7.19	-96.62	-100.72	322.13	145.11	130.82	14.29	10.152	
1,700.00	1,637.54	1,680.38	1,621.45	8.24	8.02	-97.63	-113.25	360.11	162.10	146.15	15.95	10.164	
1,800.00	1,728.28	1,778.89	1,711.48	9.11	8.85	-98.44	-125.78	398.09	179.12	161.51	17.61	10.173	
1,900.00	1,819.01	1,877.40	1,801.51	9.97	9.68	-99.11	-138.30	436.07	196.17	176.89	19.27	10.178	
2,000.00	1,909.74	1,975.91	1,891.54	10.85	10.52	-99.68	-150.83	474.05	213.24	192.30	20.94	10.182	
2,100.00	2,000.47	2,074.43	1,981.56	11.72	11.36	-100.16	-163.36	512.03	230.33	207.72	22.61	10.185	
2,200.00	2,091.20	2,172.94	2,071.59	12.59	12.20	-100.57	-175.89	550.01	247.43	223.14	24.29	10.188	
2,300.00	2,181.93	2,271.45	2,161.62	13.47	13.04	-100.93	-188.42	587.98	264.55	238.58	25.96	10.189	
2,400.00	2,272.66	2,369.96	2,251.65	14.34	13.88	-101.25	-200.94	625.96	281.67	254.03	27.64	10.191	
2,500.00	2,363.40	2,468.47	2,341.68	15.22	14.72	-101.53	-213.47	663.94	298.80	269.48	29.32	10.192	
2,600.00	2,454.13	2,566.98	2,431.71	16.10	15.57	-101.78	-226.00	701.92	315.94	284.94	31.00	10.192	
2,700.00	2,544.86	2,665.50	2,521.74	16.98	16.41	-102.00	-238.53	739.90	333.08	300.40	32.68	10.193	
2,800.00	2,635.59	2,764.01	2,611.77	17.86	17.25	-102.20	-251.06	777.88	350.22	315.87	34.36	10.193	
2,900.00	2,726.32	2,862.52	2,701.80	18.74	18.10	-102.39	-263.58	815.86	367.37	331.34	36.04	10.194	
3,000.00	2,817.05	2,961.03	2,791.83	19.62	18.94	-102.56	-276.11	853.84	384.53	346.81	37.72	10.194	
3,100.00	2,907.78	3,059.54	2,881.85	20.50	19.79	-102.71	-288.64	891.82	401.68	362.28	39.40	10.194	
3,200.00	2,998.51	3,158.06	2,971.88	21.38	20.63	-102.85	-301.17	929.80	418.84	377.76	41.09	10.194	
3,300.00	3,089.25	3,256.57	3,061.91	22.26	21.48	-102.98	-313.70	967.78	436.00	393.24	42.77	10.195	
3,400.00	3,179.98	3,355.08	3,151.94	23.14	22.33	-103.10	-326.22	1,005.76	453.17	408.72	44.45	10.195	
3,500.00	3,270.71	3,453.59	3,241.97	24.02	23.17	-103.21	-338.75	1,043.74	470.33	424.20	46.13	10.195	
3,600.00	3,361.44	3,552.10	3,332.00	24.90	24.02	-103.31	-351.28	1,081.72	487.50	439.68	47.82	10.195	
3,700.00	3,452.17	3,650.62	3,422.03	25.79	24.87	-103.41	-363.81	1,119.70	504.67	455.16	49.50	10.195	
3,800.00	3,542.90	3,749.13	3,512.06	26.67	25.71	-103.50	-376.34	1,157.67	521.84	470.65	51.19	10.195	
3,900.00	3,633.63	3,847.64	3,602.09	27.55	26.56	-103.58	-388.86	1,195.65	539.01	486.14	52.87	10.195	
4,000.00	3,724.37	3,946.15	3,692.11	28.43	27.41	-103.66	-401.39	1,233.63	556.18	501.62	54.55	10.195	
4,100.00	3,815.10	4,044.66	3,782.14	29.31	28.25	-103.73	-413.92	1,271.61	573.35	517.11	56.24	10.195	
4,200.00	3,905.83	4,143.17	3,872.17	30.20	29.10	-103.80	-426.45	1,309.59	590.52	532.60	57.92	10.195	
4,300.00	3,996.56	4,241.69	3,962.20	31.08	29.95	-103.87	-438.98	1,347.57	607.70	548.09	59.61	10.195	
4,400.00	4,087.29	4,340.20	4,052.23	31.96	30.80	-103.93	-451.51	1,385.55	624.87	563.58	61.29	10.195	
4,500.00	4,178.02	4,438.71	4,142.26	32.84	31.64	-103.99	-464.03	1,423.53	642.05	579.07	62.98	10.195	
4,600.00	4,268.75	4,537.22	4,232.29	33.73	32.49	-104.05	-476.56	1,461.51	659.22	594.56	64.66	10.195	
4,700.00	4,359.49	4,635.73	4,322.32	34.61	33.34	-104.10	-489.09	1,499.49	676.40	610.05	66.35	10.195	
4,800.00	4,450.22	4,734.25	4,412.35	35.49	34.19	-104.15	-501.62	1,537.47	693.58	625.54	68.03	10.195	
4,900.00	4,540.95	4,832.76	4,502.38	36.37	35.04	-104.20	-514.15	1,575.45	710.76	641.04	69.72	10.195	
4,960.11	4,595.49	4,891.97	4,556.49	36.90	35.55	-104.22	-521.68	1,598.28	721.08	650.35	70.73	10.195	

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 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #1 10-28-09 F												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,631.80	4,931.28	4,592.41	37.21	35.88	-104.35	-526.68	1,613.43	727.87	656.49	71.38	10.198	
5,100.00	4,723.80	5,029.89	4,682.53	37.85	36.73	-104.48	-539.22	1,651.45	744.28	671.41	72.87	10.213	
5,200.00	4,817.11	5,128.50	4,772.65	38.44	37.58	-104.35	-551.76	1,689.46	759.86	685.52	74.34	10.221	
5,300.00	4,911.62	5,226.98	4,862.65	38.98	38.43	-103.96	-564.28	1,727.43	774.66	698.88	75.77	10.223	
5,400.00	5,007.21	5,325.23	4,952.44	39.46	39.28	-103.35	-576.77	1,765.31	788.77	711.62	77.15	10.224	
5,500.00	5,103.77	5,423.11	5,041.89	39.89	40.12	-102.51	-589.22	1,803.05	802.33	723.86	78.47	10.225	
5,600.00	5,201.17	5,520.51	5,130.90	40.27	40.96	-101.48	-601.61	1,840.60	815.49	735.78	79.71	10.230	
5,700.00	5,299.31	5,621.05	5,223.00	40.60	41.74	-100.24	-614.25	1,878.91	828.34	747.52	80.82	10.250	
5,800.00	5,398.06	5,725.68	5,320.13	40.88	42.40	-98.95	-626.43	1,915.83	840.37	758.67	81.70	10.287	
5,900.00	5,497.29	5,831.43	5,419.67	41.10	43.00	-97.67	-637.60	1,949.70	851.44	769.01	82.43	10.330	
6,000.00	5,596.90	5,938.29	5,521.54	41.28	43.54	-96.40	-647.71	1,980.36	861.51	778.50	83.01	10.378	
6,100.00	5,696.75	6,046.25	5,625.59	41.40	44.02	-95.14	-656.71	2,007.65	870.54	787.09	83.45	10.432	
6,203.27	5,800.00	6,158.87	5,735.21	41.49	44.46	38.42	-664.79	2,032.13	878.74	794.98	83.76	10.491	
6,300.00	5,896.73	6,265.67	5,840.04	41.55	44.81	39.66	-671.19	2,051.55	885.42	801.49	83.93	10.550	
6,400.00	5,996.73	6,377.58	5,950.60	41.61	45.12	40.69	-676.59	2,067.90	891.23	807.16	84.07	10.602	
6,500.00	6,096.73	6,490.69	6,062.95	41.67	45.36	41.46	-680.66	2,080.24	895.71	811.53	84.18	10.640	
6,600.00	6,196.73	6,604.66	6,176.59	41.73	45.54	41.97	-683.36	2,088.41	898.73	814.43	84.30	10.661	
6,700.00	6,296.73	6,719.13	6,290.98	41.79	45.65	42.21	-684.63	2,092.29	900.17	815.75	84.42	10.663	
6,800.00	6,396.73	6,824.87	6,396.73	41.86	45.72	42.23	-684.75	2,092.63	900.29	815.75	84.55	10.648	
6,900.00	6,496.73	6,924.87	6,496.73	41.92	45.79	42.23	-684.75	2,092.63	900.29	815.61	84.68	10.632	
7,000.00	6,596.73	7,024.87	6,596.73	41.99	45.85	42.23	-684.75	2,092.63	900.29	815.48	84.81	10.615	
7,100.00	6,696.73	7,124.87	6,696.73	42.06	45.92	42.23	-684.75	2,092.63	900.29	815.34	84.95	10.598	
7,200.00	6,796.73	7,224.87	6,796.73	42.13	45.99	42.23	-684.75	2,092.63	900.29	815.21	85.09	10.581	
7,300.00	6,896.73	7,324.87	6,896.73	42.20	46.05	42.23	-684.75	2,092.63	900.29	815.06	85.23	10.563	
7,400.00	6,996.73	7,424.87	6,996.73	42.27	46.12	42.23	-684.75	2,092.63	900.29	814.92	85.37	10.545	
7,500.00	7,096.73	7,524.87	7,096.73	42.34	46.19	42.23	-684.75	2,092.63	900.29	814.78	85.52	10.528	
7,600.00	7,196.73	7,624.87	7,196.73	42.41	46.27	42.23	-684.75	2,092.63	900.29	814.63	85.66	10.510	
7,700.00	7,296.73	7,724.87	7,296.73	42.49	46.34	42.23	-684.75	2,092.63	900.29	814.48	85.81	10.491	
7,800.00	7,396.73	7,824.87	7,396.73	42.56	46.41	42.23	-684.75	2,092.63	900.29	814.33	85.97	10.473	
7,900.00	7,496.73	7,924.87	7,496.73	42.64	46.49	42.23	-684.75	2,092.63	900.29	814.18	86.12	10.454	
8,000.00	7,596.73	8,024.87	7,596.73	42.72	46.56	42.23	-684.75	2,092.63	900.29	814.02	86.27	10.435	
8,100.00	7,696.73	8,124.87	7,696.73	42.80	46.64	42.23	-684.75	2,092.63	900.29	813.86	86.43	10.416	
8,200.00	7,796.73	8,224.87	7,796.73	42.88	46.72	42.23	-684.75	2,092.63	900.29	813.70	86.59	10.397	
8,300.00	7,896.73	8,324.87	7,896.73	42.96	46.79	42.23	-684.75	2,092.63	900.29	813.54	86.75	10.378	
8,400.00	7,996.73	8,424.87	7,996.73	43.04	46.87	42.23	-684.75	2,092.63	900.29	813.38	86.92	10.358	
8,500.00	8,096.73	8,524.87	8,096.73	43.12	46.95	42.23	-684.75	2,092.63	900.29	813.21	87.08	10.338	
8,600.00	8,196.73	8,624.87	8,196.73	43.20	47.03	42.23	-684.75	2,092.63	900.29	813.05	87.25	10.319	
8,700.00	8,296.73	8,724.87	8,296.73	43.29	47.12	42.23	-684.75	2,092.63	900.29	812.88	87.42	10.299	
8,711.27	8,308.00	8,736.15	8,308.00	43.30	47.13	42.23	-684.75	2,092.63	900.29	812.86	87.44	10.296	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design		WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #1 10-28-09 F										Offset Site Error:		0.00 ft	
Survey Program: 0-MWD												Offset Well Error:		0.00 ft	
Reference		Offset		Semi Major Axis		Distance									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-16.81	16.81						
100.00	100.00	100.00	100.00	0.10	0.10	-90.00	0.00	-16.81	16.81	16.62	0.19	87.975			
200.00	200.00	200.00	200.00	0.32	0.32	-90.00	0.00	-16.81	16.81	16.17	0.64	26.238	CC, ES		
300.00	299.98	300.23	300.21	0.53	0.52	136.31	-1.61	-16.11	17.41	16.36	1.05	16.614			
400.00	399.84	400.42	400.26	0.74	0.73	132.56	-6.43	-14.03	19.28	17.81	1.47	13.153			
500.00	499.45	500.55	500.00	0.99	0.98	127.72	-14.46	-10.56	22.52	20.57	1.95	11.553			
600.00	598.70	600.58	599.28	1.28	1.27	122.92	-25.67	-5.71	27.25	24.73	2.51	10.838			
700.00	697.47	700.49	697.94	1.62	1.61	118.76	-40.03	0.50	33.50	30.32	3.18	10.546			
800.00	795.62	800.23	795.85	2.01	2.00	115.38	-57.51	8.05	41.27	37.32	3.95	10.456			
900.00	893.06	899.78	892.84	2.46	2.44	112.72	-78.06	16.94	50.54	45.71	4.83	10.457			
1,000.00	989.64	999.11	988.79	2.97	2.95	110.62	-101.64	27.14	61.29	55.45	5.84	10.494			
1,100.00	1,085.27	1,098.21	1,083.56	3.55	3.51	108.95	-128.19	38.61	73.48	66.51	6.97	10.541			
1,200.00	1,179.82	1,197.03	1,177.02	4.19	4.14	107.60	-157.65	51.35	87.09	78.86	8.23	10.587			
1,300.00	1,273.17	1,295.56	1,269.05	4.90	4.82	106.49	-189.95	65.31	102.09	92.48	9.61	10.625			
1,400.00	1,365.21	1,393.78	1,359.53	5.69	5.56	105.56	-225.02	80.48	118.44	107.33	11.11	10.656			
1,443.16	1,404.51	1,436.29	1,398.41	6.04	5.90	105.35	-240.80	87.30	125.88	114.08	11.80	10.666			
1,500.00	1,456.08	1,492.26	1,449.59	6.53	6.35	105.45	-261.58	96.28	135.78	123.06	12.72	10.676			
1,600.00	1,546.81	1,590.73	1,539.65	7.38	7.13	105.60	-298.14	112.09	153.20	138.86	14.34	10.682			
1,700.00	1,637.54	1,689.20	1,629.71	8.24	7.92	105.72	-334.70	127.90	170.63	154.65	15.98	10.680			
1,800.00	1,728.28	1,787.67	1,719.76	9.11	8.72	105.81	-371.26	143.70	188.05	170.43	17.62	10.673			
1,900.00	1,819.01	1,886.14	1,809.82	9.97	9.52	105.89	-407.82	159.51	205.47	186.21	19.27	10.665			
2,000.00	1,909.74	1,984.61	1,899.87	10.85	10.32	105.96	-444.38	175.31	222.90	201.98	20.92	10.656			
2,100.00	2,000.47	2,083.08	1,989.93	11.72	11.12	106.02	-480.93	191.12	240.32	217.75	22.57	10.647			
2,200.00	2,091.20	2,181.55	2,079.98	12.59	11.92	106.07	-517.49	206.92	257.75	233.52	24.23	10.639			
2,300.00	2,181.93	2,280.02	2,170.04	13.47	12.72	106.11	-554.05	222.73	275.17	249.29	25.89	10.630			
2,400.00	2,272.66	2,378.49	2,260.09	14.34	13.53	106.15	-590.61	238.53	292.60	265.05	27.55	10.622			
2,500.00	2,363.40	2,476.96	2,350.15	15.22	14.33	106.18	-627.17	254.34	310.02	280.82	29.21	10.615			
2,600.00	2,454.13	2,575.43	2,440.20	16.10	15.14	106.21	-663.73	270.15	327.45	296.58	30.87	10.608			
2,700.00	2,544.86	2,673.90	2,530.26	16.98	15.94	106.24	-700.29	285.95	344.88	312.35	32.53	10.602			
2,800.00	2,635.59	2,772.37	2,620.31	17.86	16.75	106.26	-736.84	301.76	362.30	328.11	34.19	10.596			
2,900.00	2,726.32	2,870.84	2,710.37	18.74	17.55	106.29	-773.40	317.56	379.73	343.87	35.86	10.591			
3,000.00	2,817.05	2,969.31	2,800.43	19.62	18.36	106.31	-809.96	333.37	397.15	359.63	37.52	10.585			
3,100.00	2,907.78	3,067.78	2,890.48	20.50	19.17	106.32	-846.52	349.17	414.58	375.40	39.18	10.581			
3,200.00	2,998.51	3,166.25	2,980.54	21.38	19.98	106.34	-883.08	364.98	432.00	391.16	40.85	10.577			
3,300.00	3,089.25	3,264.72	3,070.59	22.26	20.78	106.36	-919.64	380.79	449.43	406.92	42.51	10.573			
3,400.00	3,179.98	3,363.19	3,160.65	23.14	21.59	106.37	-956.20	396.59	466.86	422.68	44.17	10.569			
3,500.00	3,270.71	3,461.66	3,250.70	24.02	22.40	106.39	-992.75	412.40	484.28	438.45	45.84	10.565			
3,600.00	3,361.44	3,560.13	3,340.76	24.90	23.21	106.40	-1,029.31	428.20	501.71	454.21	47.50	10.562			
3,700.00	3,452.17	3,658.60	3,430.81	25.79	24.02	106.41	-1,065.87	444.01	519.13	469.97	49.16	10.559			
3,800.00	3,542.90	3,757.07	3,520.87	26.67	24.82	106.42	-1,102.43	459.81	536.56	485.73	50.83	10.557			
3,900.00	3,633.63	3,855.54	3,610.92	27.55	25.63	106.43	-1,138.99	475.62	553.99	501.50	52.49	10.554			
4,000.00	3,724.37	3,954.01	3,700.98	28.43	26.44	106.44	-1,175.55	491.43	571.41	517.26	54.15	10.552			
4,100.00	3,815.10	4,052.48	3,791.04	29.31	27.25	106.45	-1,212.11	507.23	588.84	533.02	55.81	10.550			
4,200.00	3,905.83	4,150.95	3,881.09	30.20	28.06	106.46	-1,248.66	523.04	606.26	548.79	57.48	10.548			
4,300.00	3,996.56	4,249.42	3,971.15	31.08	28.87	106.47	-1,285.22	538.84	623.69	564.55	59.14	10.546			
4,400.00	4,087.29	4,347.89	4,061.20	31.96	29.68	106.47	-1,321.78	554.65	641.12	580.32	60.80	10.545			
4,500.00	4,178.02	4,446.36	4,151.26	32.84	30.48	106.48	-1,358.34	570.45	658.54	596.08	62.46	10.543			
4,600.00	4,268.75	4,544.83	4,241.31	33.73	31.29	106.49	-1,394.90	586.26	675.97	611.85	64.12	10.542			
4,700.00	4,359.49	4,643.30	4,331.37	34.61	32.10	106.50	-1,431.46	602.06	693.39	627.61	65.78	10.540			
4,800.00	4,450.22	4,741.77	4,421.42	35.49	32.91	106.50	-1,468.02	617.87	710.82	643.38	67.44	10.539			
4,900.00	4,540.95	4,840.24	4,511.48	36.37	33.72	106.51	-1,504.57	633.68	728.25	659.14	69.10	10.538			
4,960.11	4,595.49	4,899.43	4,565.61	36.90	34.21	106.51	-1,526.55	643.18	738.72	668.62	70.10	10.538			

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 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #1 10-28-09 F												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,631.80	4,938.72	4,601.55	37.21	34.53	106.63	-1,541.14	649.48	745.59	674.86	70.73	10.541	
5,100.00	4,723.80	5,037.29	4,691.70	37.85	35.34	106.72	-1,577.73	665.31	762.14	689.96	72.18	10.558	
5,200.00	4,817.11	5,135.88	4,781.85	38.44	36.15	106.56	-1,614.33	681.13	777.72	704.12	73.61	10.566	
5,300.00	4,911.62	5,234.34	4,871.91	38.98	36.96	106.16	-1,650.89	696.93	792.41	717.42	74.99	10.567	
5,400.00	5,007.21	5,332.58	4,961.75	39.46	37.77	105.53	-1,687.36	712.70	806.28	729.96	76.32	10.564	
5,500.00	5,103.77	5,430.46	5,051.27	39.89	38.57	104.70	-1,723.70	728.41	819.47	741.88	77.60	10.561	
5,600.00	5,201.17	5,531.02	5,143.48	40.27	39.29	103.66	-1,760.51	744.33	832.04	753.33	78.72	10.570	
5,700.00	5,299.31	5,634.47	5,239.65	40.60	39.86	102.59	-1,795.49	759.45	843.61	763.99	79.62	10.596	
5,800.00	5,398.06	5,738.87	5,338.03	40.88	40.39	101.54	-1,827.55	773.31	854.09	773.68	80.41	10.622	
5,900.00	5,497.29	5,844.21	5,438.52	41.10	40.88	100.49	-1,856.54	785.84	863.44	782.36	81.08	10.650	
6,000.00	5,596.90	5,950.47	5,541.00	41.28	41.32	99.44	-1,882.32	796.99	871.62	790.00	81.63	10.678	
6,100.00	5,696.75	6,057.63	5,645.32	41.40	41.72	98.40	-1,904.77	806.70	878.61	796.55	82.06	10.707	
6,203.27	5,800.00	6,169.20	5,754.83	41.49	42.07	-130.43	-1,924.32	815.15	884.55	802.16	82.39	10.736	
6,300.00	5,896.73	6,274.74	5,859.11	41.55	42.35	-131.43	-1,939.21	821.58	889.08	806.47	82.61	10.762	
6,400.00	5,996.73	6,384.99	5,968.60	41.61	42.58	-132.21	-1,950.98	826.67	892.78	809.98	82.80	10.783	
6,500.00	6,096.73	6,496.06	6,079.33	41.67	42.76	-132.74	-1,958.91	830.10	895.34	812.38	82.96	10.792	
6,600.00	6,196.73	6,607.65	6,190.82	41.73	42.88	-133.00	-1,962.92	831.83	896.64	813.54	83.10	10.789	
6,700.00	6,296.73	6,713.55	6,296.73	41.79	42.95	-133.03	-1,963.42	832.05	896.81	813.57	83.24	10.774	
6,800.00	6,396.73	6,813.55	6,396.73	41.86	43.01	-133.03	-1,963.42	832.05	896.81	813.45	83.36	10.758	
6,900.00	6,496.73	6,913.55	6,496.73	41.92	43.07	-133.03	-1,963.42	832.05	896.81	813.32	83.49	10.742	
7,000.00	6,596.73	7,013.55	6,596.73	41.99	43.12	-133.03	-1,963.42	832.05	896.81	813.19	83.62	10.725	
7,100.00	6,696.73	7,113.55	6,696.73	42.06	43.18	-133.03	-1,963.42	832.05	896.81	813.06	83.75	10.708	
7,200.00	6,796.73	7,213.55	6,796.73	42.13	43.24	-133.03	-1,963.42	832.05	896.81	812.93	83.88	10.691	
7,300.00	6,896.73	7,313.55	6,896.73	42.20	43.31	-133.03	-1,963.42	832.05	896.81	812.79	84.02	10.674	
7,400.00	6,996.73	7,413.55	6,996.73	42.27	43.37	-133.03	-1,963.42	832.05	896.81	812.65	84.16	10.657	
7,500.00	7,096.73	7,513.55	7,096.73	42.34	43.43	-133.03	-1,963.42	832.05	896.81	812.51	84.30	10.639	
7,600.00	7,196.73	7,613.55	7,196.73	42.41	43.50	-133.03	-1,963.42	832.05	896.81	812.37	84.44	10.621	
7,700.00	7,296.73	7,713.55	7,296.73	42.49	43.56	-133.03	-1,963.42	832.05	896.81	812.23	84.58	10.603	
7,800.00	7,396.73	7,813.55	7,396.73	42.56	43.63	-133.03	-1,963.42	832.05	896.81	812.08	84.73	10.585	
7,900.00	7,496.73	7,913.55	7,496.73	42.64	43.69	-133.03	-1,963.42	832.05	896.81	811.93	84.88	10.566	
8,000.00	7,596.73	8,013.55	7,596.73	42.72	43.76	-133.03	-1,963.42	832.05	896.81	811.78	85.03	10.547	
8,100.00	7,696.73	8,113.55	7,696.73	42.80	43.83	-133.03	-1,963.42	832.05	896.81	811.63	85.18	10.528	
8,200.00	7,796.73	8,213.55	7,796.73	42.88	43.90	-133.03	-1,963.42	832.05	896.81	811.47	85.34	10.509	
8,300.00	7,896.73	8,313.55	7,896.73	42.96	43.98	-133.03	-1,963.42	832.05	896.81	811.32	85.49	10.490	
8,400.00	7,996.73	8,413.55	7,996.73	43.04	44.05	-133.03	-1,963.42	832.05	896.81	811.16	85.65	10.470	
8,500.00	8,096.73	8,513.55	8,096.73	43.12	44.12	-133.03	-1,963.42	832.05	896.81	811.00	85.81	10.451	
8,600.00	8,196.73	8,613.55	8,196.73	43.20	44.20	-133.03	-1,963.42	832.05	896.81	810.83	85.98	10.431	
8,700.00	8,296.73	8,713.55	8,296.73	43.29	44.27	-133.03	-1,963.42	832.05	896.81	810.67	86.14	10.411	
8,711.27	8,308.00	8,724.83	8,308.00	43.30	44.28	-133.03	-1,963.42	832.05	896.81	810.65	86.16	10.409 SF	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - RULE #12-35A EXISTING - RULE #12-35A EXISTING - RULE #12-2												Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-50.53	57.91	-70.31	93.05				
100.00	100.00	81.00	81.00	0.10	1.62	-50.53	57.91	-70.31	91.09	89.37	1.72	53.095	
200.00	200.00	181.00	181.00	0.32	5.24	-50.53	57.91	-70.31	91.09	85.53	5.56	16.382 CC	
300.00	299.98	280.98	280.98	0.53	9.24	177.27	57.91	-70.31	92.83	83.07	9.76	9.513 ES	
400.00	399.84	380.84	380.84	0.74	13.23	177.41	57.91	-70.31	98.06	84.13	13.93	7.040	
500.00	499.45	480.45	480.45	0.99	17.22	177.62	57.91	-70.31	106.77	88.70	18.07	5.909	
600.00	598.70	579.70	579.70	1.28	21.19	177.85	57.91	-70.31	118.94	96.79	22.15	5.369	
700.00	697.47	678.47	678.47	1.62	25.14	178.09	57.91	-70.31	134.58	108.41	26.16	5.144	
800.00	795.62	776.62	776.62	2.01	29.06	178.32	57.91	-70.31	153.65	123.57	30.08	5.108 SF	
900.00	893.06	874.06	874.06	2.46	32.96	178.52	57.91	-70.31	176.13	142.25	33.89	5.198	
1,000.00	989.64	970.64	970.64	2.97	36.83	178.70	57.91	-70.31	202.01	164.44	37.57	5.377	
1,100.00	1,085.27	1,066.27	1,066.27	3.55	40.65	178.85	57.91	-70.31	231.24	190.13	41.11	5.625	
1,200.00	1,179.82	1,160.82	1,160.82	4.19	44.43	178.98	57.91	-70.31	263.79	219.30	44.49	5.929	
1,300.00	1,273.17	1,254.17	1,254.17	4.90	48.17	179.09	57.91	-70.31	299.62	251.92	47.70	6.281	
1,400.00	1,365.21	1,346.21	1,346.21	5.69	51.85	179.18	57.91	-70.31	338.68	287.96	50.72	6.677	
1,443.16	1,404.51	1,385.51	1,385.51	6.04	53.42	179.22	57.91	-70.31	356.53	304.57	51.97	6.861	
1,500.00	1,456.08	1,437.08	1,437.08	6.53	55.48	179.27	57.91	-70.31	380.43	326.39	54.04	7.040	
1,600.00	1,546.81	1,527.81	1,527.81	7.38	59.11	179.34	57.91	-70.31	422.47	364.79	57.68	7.325	
1,700.00	1,637.54	1,618.54	1,618.54	8.24	62.74	179.40	57.91	-70.31	464.52	403.19	61.33	7.574	
1,800.00	1,728.28	1,709.28	1,709.28	9.11	66.37	179.45	57.91	-70.31	506.56	441.58	64.98	7.796	
1,900.00	1,819.01	1,800.01	1,800.01	9.97	70.00	179.49	57.91	-70.31	548.60	479.98	68.63	7.994	
2,000.00	1,909.74	1,890.74	1,890.74	10.85	73.63	179.53	57.91	-70.31	590.65	518.37	72.28	8.171	
2,100.00	2,000.47	1,981.47	1,981.47	11.72	77.26	179.56	57.91	-70.31	632.69	556.75	75.94	8.332	
2,200.00	2,091.20	2,072.20	2,072.20	12.59	80.89	179.59	57.91	-70.31	674.74	595.14	79.60	8.477	
2,300.00	2,181.93	2,162.93	2,162.93	13.47	84.52	179.61	57.91	-70.31	716.78	633.53	83.25	8.610	
2,400.00	2,272.66	2,253.66	2,253.66	14.34	88.15	179.63	57.91	-70.31	758.83	671.91	86.91	8.731	
2,500.00	2,363.40	2,344.40	2,344.40	15.22	91.78	179.65	57.91	-70.31	800.87	710.30	90.57	8.842	
2,600.00	2,454.13	2,435.13	2,435.13	16.10	95.41	179.67	57.91	-70.31	842.92	748.68	94.23	8.945	
2,700.00	2,544.86	2,525.86	2,525.86	16.98	99.03	179.68	57.91	-70.31	884.96	787.07	97.89	9.040	
2,800.00	2,635.59	2,616.59	2,616.59	17.86	102.66	179.70	57.91	-70.31	927.01	825.45	101.56	9.128	
2,900.00	2,726.32	2,707.32	2,707.32	18.74	106.29	179.71	57.91	-70.31	969.05	863.83	105.22	9.210	
3,000.00	2,817.05	2,798.05	2,798.05	19.62	109.92	179.72	57.91	-70.31	1,011.10	902.21	108.88	9.286	
3,100.00	2,907.78	2,888.78	2,888.78	20.50	113.55	179.74	57.91	-70.31	1,053.14	940.60	112.54	9.358	
3,200.00	2,998.51	2,979.51	2,979.51	21.38	117.18	179.75	57.91	-70.31	1,095.19	978.98	116.21	9.424	
3,300.00	3,089.25	3,070.25	3,070.25	22.26	120.81	179.75	57.91	-70.31	1,137.23	1,017.36	119.87	9.487	
3,400.00	3,179.98	3,160.98	3,160.98	23.14	124.44	179.76	57.91	-70.31	1,179.28	1,055.74	123.53	9.546	
3,500.00	3,270.71	3,251.71	3,251.71	24.02	128.07	179.77	57.91	-70.31	1,221.32	1,094.12	127.20	9.602	
3,600.00	3,361.44	3,342.44	3,342.44	24.90	131.70	179.78	57.91	-70.31	1,263.37	1,132.51	130.86	9.654	
3,700.00	3,452.17	3,433.17	3,433.17	25.79	135.33	179.79	57.91	-70.31	1,305.41	1,170.89	134.52	9.704	
3,800.00	3,542.90	3,523.90	3,523.90	26.67	138.96	179.79	57.91	-70.31	1,347.46	1,209.27	138.19	9.751	
3,900.00	3,633.63	3,614.63	3,614.63	27.55	142.59	179.80	57.91	-70.31	1,389.50	1,247.65	141.85	9.795	
4,000.00	3,724.37	3,705.37	3,705.37	28.43	146.21	179.81	57.91	-70.31	1,431.55	1,286.03	145.52	9.838	
4,100.00	3,815.10	3,796.10	3,796.10	29.31	149.84	179.81	57.91	-70.31	1,473.59	1,324.41	149.18	9.878	
4,200.00	3,905.83	3,886.83	3,886.83	30.20	153.47	179.82	57.91	-70.31	1,515.64	1,362.79	152.85	9.916	
4,300.00	3,996.56	3,977.56	3,977.56	31.08	157.10	179.82	57.91	-70.31	1,557.68	1,401.17	156.51	9.953	
4,400.00	4,087.29	4,068.29	4,068.29	31.96	160.73	179.83	57.91	-70.31	1,599.73	1,439.55	160.18	9.987	
4,500.00	4,178.02	4,159.02	4,159.02	32.84	164.36	179.83	57.91	-70.31	1,641.77	1,477.93	163.84	10.021	
4,600.00	4,268.75	4,249.75	4,249.75	33.73	167.99	179.83	57.91	-70.31	1,683.82	1,516.31	167.51	10.052	
4,700.00	4,359.49	4,340.49	4,340.49	34.61	171.62	179.84	57.91	-70.31	1,725.86	1,554.69	171.17	10.083	
4,800.00	4,450.22	4,431.22	4,431.22	35.49	175.25	179.84	57.91	-70.31	1,767.91	1,593.07	174.84	10.112	
4,900.00	4,540.95	4,521.95	4,521.95	36.37	178.88	179.85	57.91	-70.31	1,809.95	1,631.45	178.50	10.140	
4,960.11	4,595.49	4,576.49	4,576.49	36.90	181.06	179.85	57.91	-70.31	1,835.23	1,654.52	180.70	10.156	

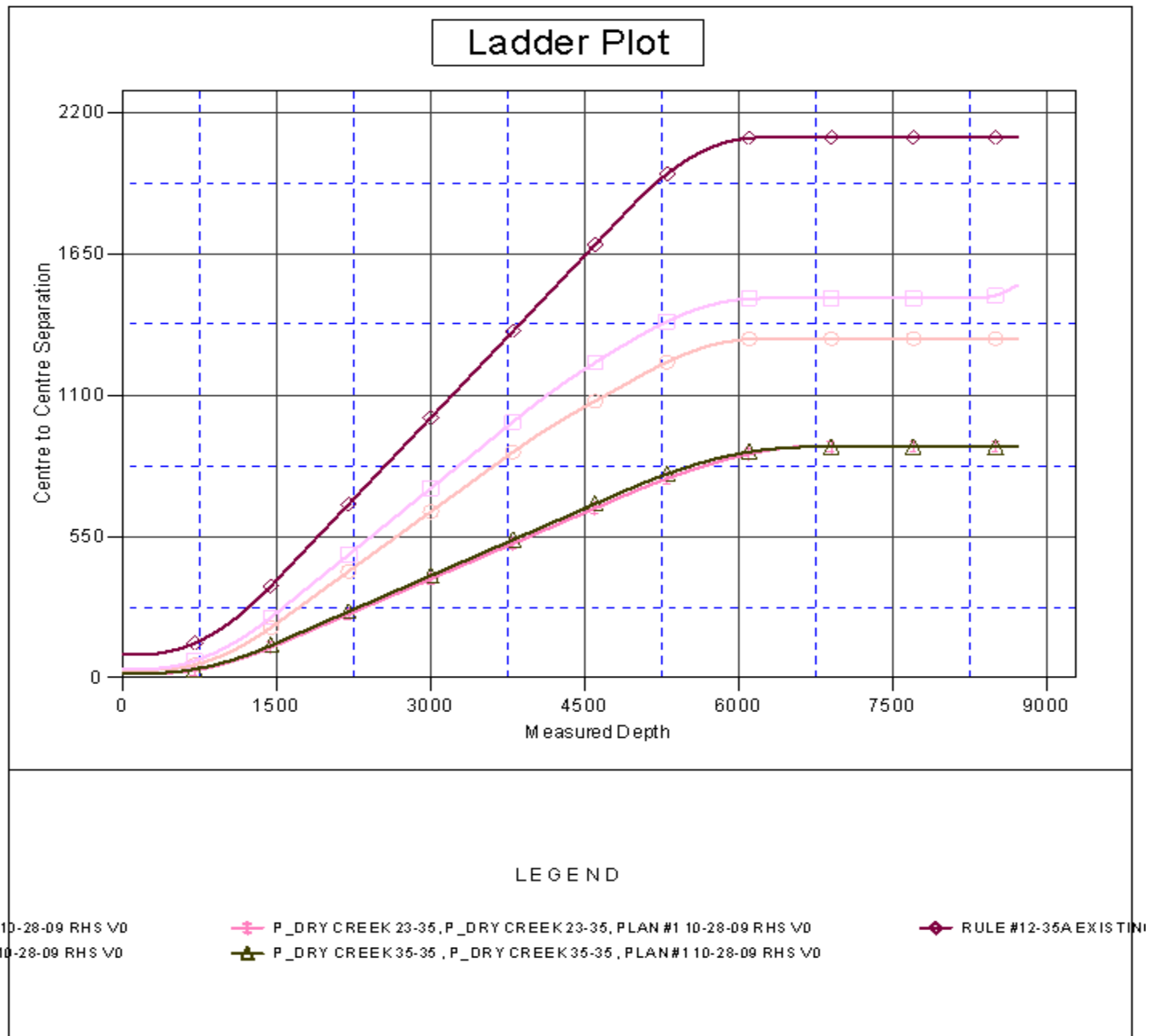
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - RULE #12-35A EXISTING - RULE #12-35A EXISTING - RULE #12-2													Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance								Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,631.80	4,612.80	4,612.80	37.21	182.51	179.85	57.91	-70.31	1,851.75	1,668.57	183.18	10.109		
5,100.00	4,723.80	4,704.80	4,704.80	37.85	186.19	179.86	57.91	-70.31	1,890.92	1,701.52	189.40	9.983		
5,200.00	4,817.11	4,798.11	4,798.11	38.44	189.92	179.86	57.91	-70.31	1,926.86	1,731.32	195.54	9.854		
5,300.00	4,911.62	4,892.62	4,892.62	38.98	193.70	179.86	57.91	-70.31	1,959.53	1,757.97	201.56	9.722		
5,400.00	5,007.21	4,988.21	4,988.21	39.46	197.53	179.87	57.91	-70.31	1,988.87	1,781.44	207.43	9.588		
5,500.00	5,103.77	5,084.77	5,084.77	39.89	201.39	179.87	57.91	-70.31	2,014.86	1,801.71	213.15	9.453		
5,600.00	5,201.17	5,182.17	5,182.17	40.27	205.29	179.87	57.91	-70.31	2,037.47	1,818.78	218.69	9.317		
5,700.00	5,299.31	5,280.31	5,280.31	40.60	209.21	179.87	57.91	-70.31	2,056.66	1,832.63	224.03	9.180		
5,800.00	5,398.06	5,379.06	5,379.06	40.88	213.16	179.88	57.91	-70.31	2,072.42	1,843.26	229.16	9.044		
5,900.00	5,497.29	5,478.29	5,478.29	41.10	217.13	179.88	57.91	-70.31	2,084.72	1,850.68	234.04	8.908		
6,000.00	5,596.90	5,577.90	5,577.90	41.28	221.12	179.88	57.91	-70.31	2,093.54	1,854.88	238.67	8.772		
6,100.00	5,696.75	5,677.75	5,677.75	41.40	225.11	179.88	57.91	-70.31	2,098.89	1,855.88	243.01	8.637		
6,203.27	5,800.00	5,781.00	5,781.00	41.49	229.24	-47.87	57.91	-70.31	2,100.75	1,853.56	247.20	8.498		
6,300.00	5,896.73	5,877.73	5,877.73	41.55	233.11	-47.87	57.91	-70.31	2,100.75	1,849.56	251.19	8.363		
6,400.00	5,996.73	5,977.73	5,977.73	41.61	237.11	-47.87	57.91	-70.31	2,100.75	1,845.43	255.32	8.228		
6,500.00	6,096.73	6,077.73	6,077.73	41.67	241.11	-47.87	57.91	-70.31	2,100.75	1,841.30	259.45	8.097		
6,600.00	6,196.73	6,177.73	6,177.73	41.73	245.11	-47.87	57.91	-70.31	2,100.75	1,837.17	263.58	7.970		
6,700.00	6,296.73	6,277.73	6,277.73	41.79	249.11	-47.87	57.91	-70.31	2,100.75	1,833.04	267.71	7.847		
6,800.00	6,396.73	6,377.73	6,377.73	41.86	253.11	-47.87	57.91	-70.31	2,100.75	1,828.91	271.85	7.728		
6,900.00	6,496.73	6,477.73	6,477.73	41.92	257.11	-47.87	57.91	-70.31	2,100.75	1,824.77	275.98	7.612		
7,000.00	6,596.73	6,577.73	6,577.73	41.99	261.11	-47.87	57.91	-70.31	2,100.75	1,820.63	280.12	7.499		
7,100.00	6,696.73	6,677.73	6,677.73	42.06	265.11	-47.87	57.91	-70.31	2,100.75	1,816.49	284.26	7.390		
7,200.00	6,796.73	6,777.73	6,777.73	42.13	269.11	-47.87	57.91	-70.31	2,100.75	1,812.35	288.40	7.284		
7,300.00	6,896.73	6,877.73	6,877.73	42.20	273.11	-47.87	57.91	-70.31	2,100.75	1,808.21	292.54	7.181		
7,400.00	6,996.73	6,977.73	6,977.73	42.27	277.11	-47.87	57.91	-70.31	2,100.75	1,804.07	296.69	7.081		
7,500.00	7,096.73	7,077.73	7,077.73	42.34	281.11	-47.87	57.91	-70.31	2,100.75	1,799.92	300.83	6.983		
7,600.00	7,196.73	7,177.73	7,177.73	42.41	285.11	-47.87	57.91	-70.31	2,100.75	1,795.77	304.98	6.888		
7,700.00	7,296.73	7,277.73	7,277.73	42.49	289.11	-47.87	57.91	-70.31	2,100.75	1,791.63	309.13	6.796		
7,800.00	7,396.73	7,377.73	7,377.73	42.56	293.11	-47.87	57.91	-70.31	2,100.75	1,787.48	313.28	6.706		
7,900.00	7,496.73	7,477.73	7,477.73	42.64	297.11	-47.87	57.91	-70.31	2,100.75	1,783.33	317.43	6.618		
8,000.00	7,596.73	7,577.73	7,577.73	42.72	301.11	-47.87	57.91	-70.31	2,100.75	1,779.17	321.58	6.533		
8,100.00	7,696.73	7,677.73	7,677.73	42.80	305.11	-47.87	57.91	-70.31	2,100.75	1,775.02	325.73	6.449		
8,200.00	7,796.73	7,777.73	7,777.73	42.88	309.11	-47.87	57.91	-70.31	2,100.75	1,770.86	329.89	6.368		
8,300.00	7,896.73	7,877.73	7,877.73	42.96	313.11	-47.87	57.91	-70.31	2,100.75	1,766.71	334.05	6.289		
8,400.00	7,996.73	7,977.73	7,977.73	43.04	317.11	-47.87	57.91	-70.31	2,100.75	1,762.55	338.20	6.212		
8,500.00	8,096.73	8,077.73	8,077.73	43.12	321.11	-47.87	57.91	-70.31	2,100.75	1,758.39	342.36	6.136		
8,600.00	8,196.73	8,177.73	8,177.73	43.20	325.11	-47.87	57.91	-70.31	2,100.75	1,754.23	346.52	6.062		
8,700.00	8,296.73	8,277.73	8,277.73	43.29	329.11	-47.87	57.91	-70.31	2,100.75	1,750.07	350.68	5.990		
8,711.27	8,308.00	8,289.00	8,289.00	43.30	329.56	-47.87	57.91	-70.31	2,100.75	1,749.60	351.15	5.982		

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5044.00ft (Original Well Elev) Coordinates are relative to: P_DRY CREEK 14-35
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.41°



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 14-35
Project:	COLORADO NOTHERN ZONE - 83	TVD Reference:	WELL @ 5044.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK 12-35 PAD	MD Reference:	WELL @ 5044.00ft (Original Well Elev)
Site Error:	5,044.00ft	North Reference:	True
Reference Well:	P_DRY CREEK 14-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 14-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

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