



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DRY CREEK 12-35 PAD

P_DRY CREEK 23-35

P_DRY CREEK 23-35

Plan: PLAN #1 10-28-09 RHS

Standard Planning Report

28 October, 2009





Azimuths to True North
Magnetic North: 9.06°

Magnetic Field
Strength: 53101.9nT
Dip Angle: 66.78°
Date: 10/28/2009
Model: IGRF200510

WELL DETAILS: P_DRY CREEK 23-35

+N/-S	+E/-W	Northing	Ground Level:	5029.00	Longitude	Slot
0.00	0.00	1245632.34	Easting	3177796.58	40° 0' 21.240 N	104° 51' 55.080 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3152.00	3355.14	PARKMAN TOP
4754.00	5108.09	SUSSEX TOP
7336.00	7764.15	NIO A TOP
7736.00	8164.15	CODELL TOP
8173.00	8601.15	JSAND TOP

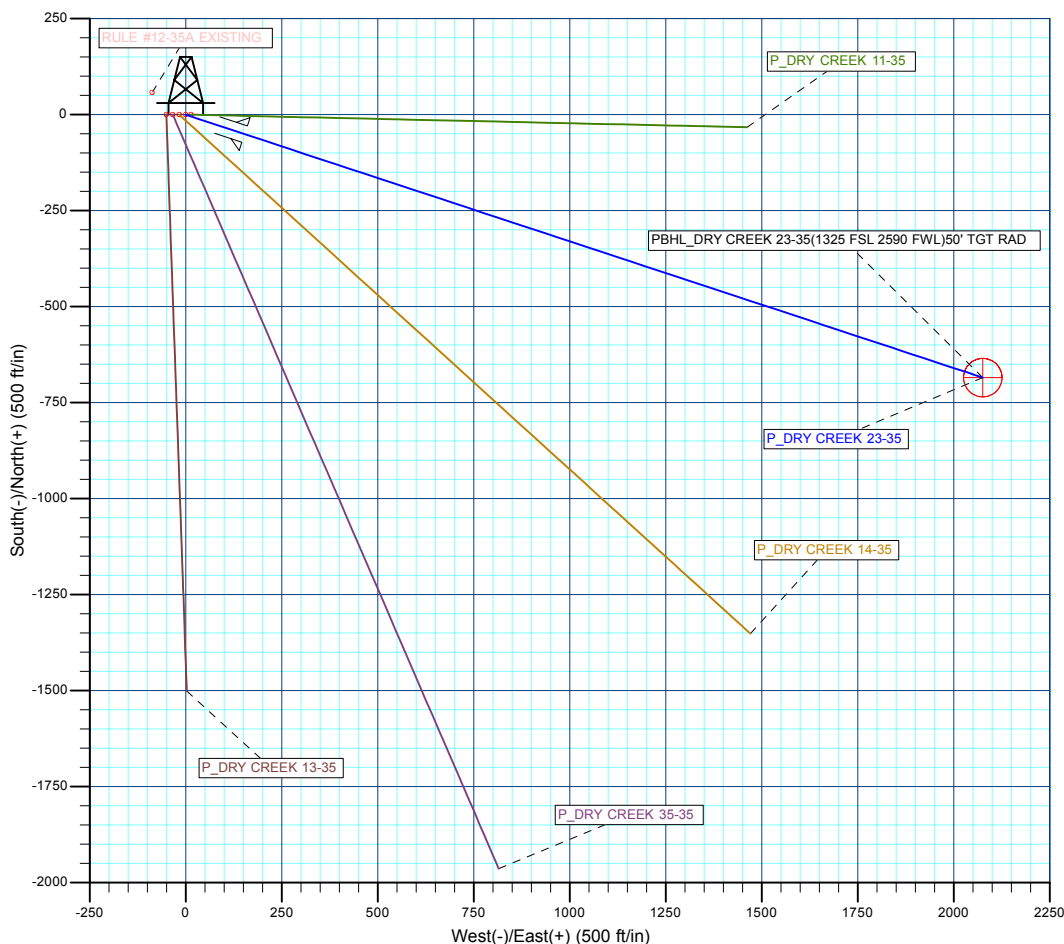
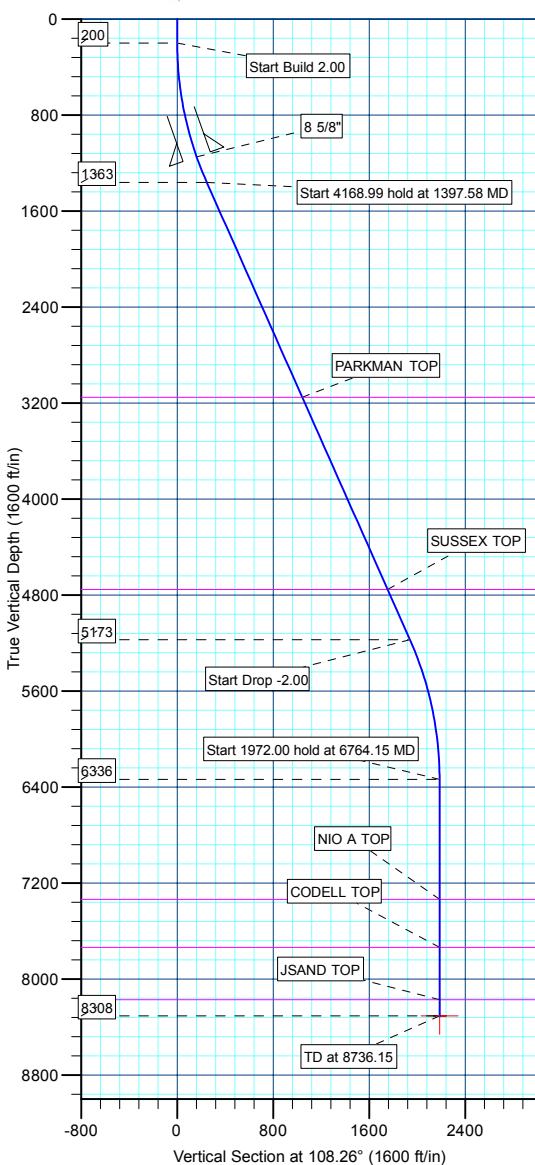
SECTION DETAILS

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
1397.58	23.95	108.26	1363.00	-77.28	234.27	2.00	108.26	246.69	
5566.57	23.95	108.26	5173.00	-607.46	1841.55	0.00	0.00	1939.15	
6764.15	0.00	0.00	6336.00	-684.74	2075.82	2.00	180.00	2185.84	
8736.15	0.00	0.00	8308.00	-684.74	2075.82	0.00	0.00	2185.84	PBHL_DRY CREEK 23-35(1325 FSL 2590 FWL)50' TGT RAD

CASING DETAILS

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

KB ELEV: WELL @ 5044.00ft (Original Well Elev)
GRD ELEV: 5029.00



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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8308.00	-684.74	2075.82	1244962.48	3179877.25	40° 0' 14.472 N	104° 51' 28.404 W	Circle (Radius: 50.00)

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 23-35		
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 23-35			
Well Position	+N/-S	-0.01 ft	Northing:	1,245,632.34 ft
	+E/-W	-14.01 ft	Easting:	3,177,796.58 ft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
			Ground Level:	5,029.00 ft

Wellbore	P_DRY CREEK 23-35				
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	108.26

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	
1,397.58	23.95	108.26	1,363.00	-77.28	234.27	2.00	2.00	0.00	108.26	
5,566.57	23.95	108.26	5,173.00	-607.46	1,841.55	0.00	0.00	0.00	0.00	
6,764.15	0.00	0.00	6,336.00	-684.74	2,075.82	2.00	-2.00	0.00	180.00	
8,736.15	0.00	0.00	8,308.00	-684.74	2,075.82	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 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 23-35		
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	108.26	299.98	-0.55	1.66	1.75	2.00	2.00	0.00
400.00	4.00	108.26	399.84	-2.19	6.63	6.98	2.00	2.00	0.00
500.00	6.00	108.26	499.45	-4.92	14.90	15.69	2.00	2.00	0.00
600.00	8.00	108.26	598.70	-8.73	26.48	27.88	2.00	2.00	0.00
700.00	10.00	108.26	697.47	-13.63	41.33	43.52	2.00	2.00	0.00
800.00	12.00	108.26	795.62	-19.61	59.45	62.60	2.00	2.00	0.00
900.00	14.00	108.26	893.06	-26.66	80.81	85.10	2.00	2.00	0.00
1,000.00	16.00	108.26	989.64	-34.76	105.39	110.98	2.00	2.00	0.00
1,100.00	18.00	108.26	1,085.27	-43.92	133.16	140.21	2.00	2.00	0.00
8 5/8"									
1,168.33	19.37	108.26	1,150.00	-50.78	153.94	162.10	2.00	2.00	0.00
1,200.00	20.00	108.26	1,179.82	-54.12	164.07	172.77	2.00	2.00	0.00
1,300.00	22.00	108.26	1,273.17	-65.35	198.10	208.60	2.00	2.00	0.00
Start 4168.99 hold at 1397.58 MD									
1,397.58	23.95	108.26	1,363.00	-77.28	234.27	246.69	2.00	2.00	0.00
1,400.00	23.95	108.26	1,365.22	-77.59	235.21	247.67	0.00	0.00	0.00
1,500.00	23.95	108.26	1,456.60	-90.30	273.76	288.27	0.00	0.00	0.00
1,600.00	23.95	108.26	1,547.99	-103.02	312.31	328.87	0.00	0.00	0.00
1,700.00	23.95	108.26	1,639.38	-115.74	350.87	369.46	0.00	0.00	0.00
1,800.00	23.95	108.26	1,730.77	-128.46	389.42	410.06	0.00	0.00	0.00
1,900.00	23.95	108.26	1,822.16	-141.17	427.97	450.66	0.00	0.00	0.00
2,000.00	23.95	108.26	1,913.55	-153.89	466.53	491.25	0.00	0.00	0.00
2,100.00	23.95	108.26	2,004.94	-166.61	505.08	531.85	0.00	0.00	0.00
2,200.00	23.95	108.26	2,096.33	-179.33	543.63	572.44	0.00	0.00	0.00
2,300.00	23.95	108.26	2,187.72	-192.04	582.18	613.04	0.00	0.00	0.00
2,400.00	23.95	108.26	2,279.10	-204.76	620.74	653.64	0.00	0.00	0.00
2,500.00	23.95	108.26	2,370.49	-217.48	659.29	694.23	0.00	0.00	0.00
2,600.00	23.95	108.26	2,461.88	-230.19	697.84	734.83	0.00	0.00	0.00
2,700.00	23.95	108.26	2,553.27	-242.91	736.40	775.43	0.00	0.00	0.00
2,800.00	23.95	108.26	2,644.66	-255.63	774.95	816.02	0.00	0.00	0.00
2,900.00	23.95	108.26	2,736.05	-268.35	813.50	856.62	0.00	0.00	0.00
3,000.00	23.95	108.26	2,827.44	-281.06	852.06	897.22	0.00	0.00	0.00
3,100.00	23.95	108.26	2,918.83	-293.78	890.61	937.81	0.00	0.00	0.00
3,200.00	23.95	108.26	3,010.22	-306.50	929.16	978.41	0.00	0.00	0.00
3,300.00	23.95	108.26	3,101.60	-319.22	967.71	1,019.00	0.00	0.00	0.00
PARKMAN TOP									
3,355.14	23.95	108.26	3,152.00	-326.23	988.97	1,041.39	0.00	0.00	0.00
3,400.00	23.95	108.26	3,192.99	-331.93	1,006.27	1,059.60	0.00	0.00	0.00
3,500.00	23.95	108.26	3,284.38	-344.65	1,044.82	1,100.20	0.00	0.00	0.00
3,600.00	23.95	108.26	3,375.77	-357.37	1,083.37	1,140.79	0.00	0.00	0.00
3,700.00	23.95	108.26	3,467.16	-370.09	1,121.93	1,181.39	0.00	0.00	0.00
3,800.00	23.95	108.26	3,558.55	-382.80	1,160.48	1,221.99	0.00	0.00	0.00
3,900.00	23.95	108.26	3,649.94	-395.52	1,199.03	1,262.58	0.00	0.00	0.00
4,000.00	23.95	108.26	3,741.33	-408.24	1,237.59	1,303.18	0.00	0.00	0.00
4,100.00	23.95	108.26	3,832.72	-420.95	1,276.14	1,343.78	0.00	0.00	0.00
4,200.00	23.95	108.26	3,924.10	-433.67	1,314.69	1,384.37	0.00	0.00	0.00
4,300.00	23.95	108.26	4,015.49	-446.39	1,353.25	1,424.97	0.00	0.00	0.00
4,400.00	23.95	108.26	4,106.88	-459.11	1,391.80	1,465.57	0.00	0.00	0.00
4,500.00	23.95	108.26	4,198.27	-471.82	1,430.35	1,506.16	0.00	0.00	0.00
4,600.00	23.95	108.26	4,289.66	-484.54	1,468.90	1,546.76	0.00	0.00	0.00
4,700.00	23.95	108.26	4,381.05	-497.26	1,507.46	1,587.35	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 23-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 23-35		
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	23.95	108.26	4,472.44	-509.98	1,546.01	1,627.95	0.00	0.00	0.00
4,900.00	23.95	108.26	4,563.83	-522.69	1,584.56	1,668.55	0.00	0.00	0.00
5,000.00	23.95	108.26	4,655.22	-535.41	1,623.12	1,709.14	0.00	0.00	0.00
5,100.00	23.95	108.26	4,746.60	-548.13	1,661.67	1,749.74	0.00	0.00	0.00
SUSSEX TOP									
5,108.09	23.95	108.26	4,754.00	-549.16	1,664.79	1,753.03	0.00	0.00	0.00
5,200.00	23.95	108.26	4,837.99	-560.84	1,700.22	1,790.34	0.00	0.00	0.00
5,300.00	23.95	108.26	4,929.38	-573.56	1,738.78	1,830.93	0.00	0.00	0.00
5,400.00	23.95	108.26	5,020.77	-586.28	1,777.33	1,871.53	0.00	0.00	0.00
5,500.00	23.95	108.26	5,112.16	-599.00	1,815.88	1,912.13	0.00	0.00	0.00
Start Drop -2.00									
5,566.57	23.95	108.26	5,173.00	-607.46	1,841.55	1,939.15	0.00	0.00	0.00
5,600.00	23.28	108.26	5,203.63	-611.66	1,854.27	1,952.54	2.00	-2.00	0.00
5,700.00	21.28	108.26	5,296.16	-623.54	1,890.27	1,990.46	2.00	-2.00	0.00
5,800.00	19.28	108.26	5,389.95	-634.39	1,923.19	2,025.12	2.00	-2.00	0.00
5,900.00	17.28	108.26	5,484.90	-644.22	1,952.98	2,056.49	2.00	-2.00	0.00
6,000.00	15.28	108.26	5,580.88	-653.00	1,979.61	2,084.53	2.00	-2.00	0.00
6,100.00	13.28	108.26	5,677.78	-660.73	2,003.04	2,109.20	2.00	-2.00	0.00
6,200.00	11.28	108.26	5,775.49	-667.40	2,023.24	2,130.47	2.00	-2.00	0.00
6,300.00	9.28	108.26	5,873.88	-672.99	2,040.19	2,148.32	2.00	-2.00	0.00
6,400.00	7.28	108.26	5,972.83	-677.50	2,053.87	2,162.73	2.00	-2.00	0.00
6,500.00	5.28	108.26	6,072.23	-680.93	2,064.26	2,173.67	2.00	-2.00	0.00
6,600.00	3.28	108.26	6,171.94	-683.27	2,071.36	2,181.14	2.00	-2.00	0.00
6,700.00	1.28	108.26	6,271.86	-684.52	2,075.14	2,185.12	2.00	-2.00	0.00
Start 1972.00 hold at 6764.15 MD									
6,764.15	0.00	0.00	6,336.00	-684.74	2,075.82	2,185.84	2.00	-2.00	-168.76
6,800.00	0.00	0.00	6,371.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
6,900.00	0.00	0.00	6,471.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,000.00	0.00	0.00	6,571.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,100.00	0.00	0.00	6,671.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,200.00	0.00	0.00	6,771.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,300.00	0.00	0.00	6,871.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,400.00	0.00	0.00	6,971.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,500.00	0.00	0.00	7,071.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,600.00	0.00	0.00	7,171.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,700.00	0.00	0.00	7,271.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
NIO A TOP									
7,764.15	0.00	0.00	7,336.00	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,800.00	0.00	0.00	7,371.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
7,900.00	0.00	0.00	7,471.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,000.00	0.00	0.00	7,571.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,100.00	0.00	0.00	7,671.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
CODELL TOP									
8,164.15	0.00	0.00	7,736.00	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,200.00	0.00	0.00	7,771.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,300.00	0.00	0.00	7,871.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,400.00	0.00	0.00	7,971.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,500.00	0.00	0.00	8,071.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,600.00	0.00	0.00	8,171.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
JSAND TOP									
8,601.15	0.00	0.00	8,173.00	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
8,700.00	0.00	0.00	8,271.85	-684.74	2,075.82	2,185.84	0.00	0.00	0.00
PBHL_DRY CREEK 23-35(1325 FSL 2590 FWL)50' TGT RAD									

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 23-35		
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)
8,736.15	0.00	0.00	8,308.00	-684.74	2,075.82	2,185.84	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	8,308.00	-684.74	2,075.82	1,244,962.48	3,179,877.25	40° 0' 14.472 N	104° 51' 28.404 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 (°)
3,355.14	3,152.00	PARKMAN TOP			
5,108.09	4,754.00	SUSSEX TOP			
7,764.15	7,336.00	NIO A TOP			
8,164.15	7,736.00	CODELL TOP			
8,601.15	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
1,397.58	1,363.00	-77.28	234.27	Start 4168.99 hold at 1397.58 MD
5,566.57	5,173.00	-607.46	1,841.55	Start Drop -2.00
6,764.15	6,336.00	-684.74	2,075.82	Start 1972.00 hold at 6764.15 MD
8,736.15	8,308.00	-684.74	2,075.82	TD at 8736.15



US ROCKIES REGION PLANNING

**COLORADO NOTHERN ZONE - 83
WELD_DRY CREEK 12-35 PAD
P_DRY CREEK 23-35**

**P_DRY CREEK 23-35
PLAN #1 10-28-09 RHS**

Anticollision Report

28 October, 2009



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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	8,736.15	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	14.01	13.37	21.865 CC	
P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #	400.00	399.01	14.47	12.98	9.755 ES	
P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #	900.00	895.74	30.46	25.73	6.445 SF	
P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #	200.00	200.00	50.42	49.78	78.715 CC, ES	
P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #	800.00	791.98	115.63	111.90	31.054 SF	
P_DRY CREEK 14-35 - P_DRY CREEK 14-35 - PLAN #	200.00	200.00	16.81	16.17	26.238 CC	
P_DRY CREEK 14-35 - P_DRY CREEK 14-35 - PLAN #	300.00	300.43	17.18	16.12	16.276 ES	
P_DRY CREEK 14-35 - P_DRY CREEK 14-35 - PLAN #	800.00	801.47	37.40	33.48	9.551 SF	
P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #	200.00	200.00	33.62	32.98	52.477 CC, ES	
P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #	800.00	798.41	78.00	74.16	20.321 SF	
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	200.00	181.00	104.61	99.05	18.814 CC	
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	300.00	280.98	106.30	96.53	10.887 ES	
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	800.00	776.62	165.81	135.70	5.507 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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	0.00	89.97	0.01	14.01	14.01					
100.00	100.00	100.00	100.00	0.10	0.10	89.97	0.01	14.01	14.01	13.82	0.19	73.313		
200.00	200.00	200.00	200.00	0.32	0.32	89.97	0.01	14.01	14.01	13.37	0.64	21.865 CC		
300.00	299.98	299.51	299.49	0.53	0.53	-20.34	-0.03	15.73	14.09	13.03	1.06	13.282		
400.00	399.84	399.01	398.85	0.75	0.76	-26.31	-0.15	20.91	14.47	12.98	1.48	9.755 ES		
500.00	499.45	498.47	497.93	1.00	1.00	-35.42	-0.34	29.54	15.41	13.47	1.94	7.940		
600.00	598.70	597.89	596.62	1.29	1.29	-46.08	-0.62	41.59	17.28	14.82	2.46	7.019		
700.00	697.47	697.25	694.76	1.62	1.62	-56.42	-0.96	57.04	20.36	17.28	3.09	6.596		
800.00	795.62	796.54	792.24	2.01	2.00	-65.19	-1.39	75.88	24.76	20.92	3.84	6.448		
900.00	893.06	895.74	888.92	2.46	2.44	-72.07	-1.89	98.05	30.46	25.73	4.73	6.445 SF		
1,000.00	989.64	994.84	984.68	2.97	2.94	-77.28	-2.47	123.54	37.38	31.64	5.74	6.511		
1,100.00	1,085.27	1,093.83	1,079.40	3.55	3.50	-81.19	-3.12	152.28	45.45	38.56	6.88	6.602		
1,200.00	1,179.82	1,192.69	1,172.95	4.19	4.13	-84.14	-3.84	184.24	54.61	46.45	8.16	6.694		
1,300.00	1,273.17	1,291.42	1,265.21	4.90	4.82	-86.39	-4.63	219.35	64.82	55.25	9.56	6.777		
1,397.58	1,363.00	1,387.62	1,353.89	5.67	5.56	-88.08	-5.48	256.61	75.75	64.68	11.07	6.844		

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 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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
1,400.00	1,365.22	1,390.00	1,356.07	5.69	5.58	-88.12	-5.50	257.57	76.03	64.92	11.11	6.846	
1,500.00	1,456.60	1,488.88	1,446.04	6.51	6.40	-88.80	-6.42	298.59	88.11	75.38	12.73	6.921	
1,600.00	1,547.99	1,588.13	1,536.18	7.35	7.25	-89.11	-7.36	340.12	100.32	85.93	14.38	6.974	
1,700.00	1,639.38	1,687.38	1,626.31	8.19	8.10	-89.35	-8.30	381.66	112.52	96.47	16.05	7.011	
1,800.00	1,730.77	1,786.64	1,716.45	9.03	8.96	-89.54	-9.24	423.19	124.73	107.01	17.72	7.037	
1,900.00	1,822.16	1,885.89	1,806.59	9.88	9.82	-89.70	-10.18	464.72	136.94	117.53	19.41	7.057	
2,000.00	1,913.55	1,985.14	1,896.73	10.72	10.69	-89.83	-11.12	506.25	149.15	128.06	21.09	7.071	
2,100.00	2,004.94	2,084.39	1,986.87	11.58	11.55	-89.94	-12.06	547.79	161.36	138.57	22.78	7.082	
2,200.00	2,096.33	2,183.64	2,077.01	12.43	12.42	-90.04	-13.00	589.32	173.57	149.09	24.48	7.091	
2,300.00	2,187.72	2,282.89	2,167.15	13.28	13.29	-90.12	-13.94	630.85	185.78	159.60	26.17	7.098	
2,400.00	2,279.10	2,382.14	2,257.28	14.14	14.16	-90.20	-14.87	672.39	197.99	170.12	27.87	7.103	
2,500.00	2,370.49	2,481.40	2,347.42	14.99	15.03	-90.26	-15.81	713.92	210.20	180.63	29.57	7.108	
2,600.00	2,461.88	2,580.65	2,437.56	15.85	15.91	-90.32	-16.75	755.45	222.41	191.14	31.28	7.111	
2,700.00	2,553.27	2,679.90	2,527.70	16.70	16.78	-90.37	-17.69	796.98	234.63	201.65	32.98	7.114	
2,800.00	2,644.66	2,779.15	2,617.84	17.56	17.65	-90.42	-18.63	838.52	246.84	212.15	34.68	7.117	
2,900.00	2,736.05	2,878.40	2,707.98	18.42	18.53	-90.46	-19.57	880.05	259.05	222.66	36.39	7.119	
3,000.00	2,827.44	2,977.65	2,798.12	19.28	19.40	-90.50	-20.51	921.58	271.26	233.17	38.10	7.120	
3,100.00	2,918.83	3,076.90	2,888.26	20.14	20.28	-90.54	-21.45	963.11	283.47	243.67	39.80	7.122	
3,200.00	3,010.22	3,176.15	2,978.39	20.99	21.15	-90.57	-22.39	1,004.65	295.69	254.18	41.51	7.123	
3,300.00	3,101.60	3,275.41	3,068.53	21.85	22.03	-90.60	-23.32	1,046.18	307.90	264.68	43.22	7.124	
3,400.00	3,192.99	3,374.66	3,158.67	22.71	22.91	-90.62	-24.26	1,087.71	320.11	275.18	44.93	7.125	
3,500.00	3,284.38	3,473.91	3,248.81	23.57	23.78	-90.65	-25.20	1,129.24	332.33	285.69	46.64	7.126	
3,600.00	3,375.77	3,573.16	3,338.95	24.43	24.66	-90.67	-26.14	1,170.78	344.54	296.19	48.35	7.126	
3,700.00	3,467.16	3,673.43	3,430.09	25.29	25.51	-90.72	-27.09	1,212.57	356.71	306.67	50.03	7.129	
3,800.00	3,558.55	3,775.98	3,524.43	26.15	26.22	-91.20	-27.99	1,252.76	368.20	316.59	51.61	7.135	
3,900.00	3,649.94	3,878.41	3,620.03	27.01	26.84	-92.18	-28.82	1,289.50	378.87	325.74	53.14	7.130	
4,000.00	3,741.33	3,980.46	3,716.52	27.87	27.41	-93.63	-29.57	1,322.68	388.90	334.28	54.62	7.120	
4,100.00	3,832.72	4,081.86	3,813.52	28.73	27.92	-95.50	-30.24	1,352.24	398.52	342.49	56.03	7.113	
4,200.00	3,924.10	4,182.38	3,910.64	29.59	28.37	-97.76	-30.83	1,378.12	408.03	350.70	57.33	7.118	
4,300.00	4,015.49	4,281.79	4,007.52	30.45	28.76	-100.35	-31.33	1,400.36	417.80	359.33	58.47	7.145	
4,400.00	4,106.88	4,379.86	4,103.80	31.31	29.09	-103.24	-31.75	1,418.99	428.23	368.80	59.43	7.205	
4,500.00	4,198.27	4,476.40	4,199.15	32.17	29.36	-106.37	-32.09	1,434.10	439.75	379.58	60.17	7.308	
4,600.00	4,289.66	4,571.23	4,293.25	33.03	29.59	-109.67	-32.36	1,445.81	452.79	392.12	60.66	7.464	
4,700.00	4,381.05	4,664.20	4,385.82	33.89	29.76	-113.10	-32.55	1,454.26	467.77	406.88	60.89	7.682	
4,800.00	4,472.44	4,755.16	4,476.63	34.75	29.89	-116.59	-32.67	1,459.62	485.08	424.22	60.86	7.970	
4,900.00	4,563.83	4,844.01	4,565.44	35.61	29.98	-120.07	-32.73	1,462.07	505.05	444.46	60.59	8.335	
5,000.00	4,655.22	4,933.79	4,655.22	36.48	30.05	-123.58	-32.73	1,462.28	527.78	467.70	60.09	8.784	
5,100.00	4,746.60	5,025.18	4,746.60	37.34	30.11	-126.90	-32.73	1,462.28	552.62	493.15	59.47	9.293	
5,200.00	4,837.99	5,116.57	4,837.99	38.20	30.18	-129.95	-32.73	1,462.28	579.24	520.44	58.81	9.850	
5,300.00	4,929.38	5,207.96	4,929.38	39.06	30.25	-132.76	-32.73	1,462.28	607.41	549.28	58.13	10.449	
5,400.00	5,020.77	5,299.35	5,020.77	39.92	30.32	-135.33	-32.73	1,462.28	636.92	579.46	57.47	11.083	
5,500.00	5,112.16	5,390.74	5,112.16	40.78	30.39	-137.68	-32.73	1,462.28	667.60	610.77	56.83	11.747	
5,566.57	5,173.00	5,451.57	5,173.00	41.35	30.44	-139.14	-32.73	1,462.28	688.59	632.17	56.43	12.203	
5,600.00	5,203.63	5,482.20	5,203.63	41.61	30.46	-139.98	-32.73	1,462.28	699.15	642.98	56.17	12.448	
5,700.00	5,296.16	5,574.73	5,296.16	42.25	30.54	-142.24	-32.73	1,462.28	729.54	674.12	55.42	13.164	
5,800.00	5,389.95	5,668.52	5,389.95	42.83	30.61	-144.15	-32.73	1,462.28	757.92	703.13	54.79	13.833	
5,900.00	5,484.90	5,763.47	5,484.90	43.36	30.69	-145.78	-32.73	1,462.28	784.04	729.77	54.27	14.448	
6,000.00	5,580.88	5,859.46	5,580.88	43.83	30.77	-147.15	-32.73	1,462.28	807.69	753.86	53.84	15.003	
6,100.00	5,677.78	5,956.36	5,677.78	44.25	30.86	-148.30	-32.73	1,462.28	828.74	775.25	53.49	15.495	
6,200.00	5,775.49	6,054.07	5,775.49	44.61	30.94	-149.24	-32.73	1,462.28	847.04	793.83	53.21	15.920	
6,300.00	5,873.88	6,152.45	5,873.88	44.92	31.03	-150.00	-32.73	1,462.28	862.50	809.52	52.99	16.278	
6,400.00	5,972.83	6,251.41	5,972.83	45.17	31.12	-150.59	-32.73	1,462.28	875.05	822.23	52.82	16.567	

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

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Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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
6,500.00	6,072.23	6,350.80	6,072.23	45.38	31.21	-151.04	-32.73	1,462.28	884.62	831.92	52.70	16.787	
6,600.00	6,171.94	6,450.52	6,171.94	45.53	31.30	-151.33	-32.73	1,462.28	891.16	838.55	52.61	16.937	
6,700.00	6,271.86	6,550.43	6,271.86	45.64	31.40	-151.49	-32.73	1,462.28	894.66	842.09	52.58	17.017	
6,764.15	6,336.00	6,614.58	6,336.00	45.68	31.46	-43.26	-32.73	1,462.28	895.29	842.72	52.57	17.030	
6,800.00	6,371.85	6,650.43	6,371.85	45.71	31.49	-43.26	-32.73	1,462.28	895.29	842.64	52.65	17.005	
6,900.00	6,471.85	6,750.43	6,471.85	45.77	31.59	-43.26	-32.73	1,462.28	895.29	842.43	52.86	16.936	
7,000.00	6,571.85	6,850.43	6,571.85	45.84	31.69	-43.26	-32.73	1,462.28	895.29	842.21	53.08	16.867	
7,100.00	6,671.85	6,950.43	6,671.85	45.90	31.79	-43.26	-32.73	1,462.28	895.29	841.99	53.30	16.797	
7,200.00	6,771.85	7,050.43	6,771.85	45.97	31.89	-43.26	-32.73	1,462.28	895.29	841.77	53.52	16.727	
7,300.00	6,871.85	7,150.43	6,871.85	46.04	31.99	-43.26	-32.73	1,462.28	895.29	841.54	53.75	16.657	
7,400.00	6,971.85	7,250.43	6,971.85	46.11	32.09	-43.26	-32.73	1,462.28	895.29	841.32	53.98	16.586	
7,500.00	7,071.85	7,350.43	7,071.85	46.18	32.20	-43.26	-32.73	1,462.28	895.29	841.08	54.21	16.515	
7,600.00	7,171.85	7,450.43	7,171.85	46.25	32.30	-43.26	-32.73	1,462.28	895.29	840.85	54.44	16.444	
7,700.00	7,271.85	7,550.43	7,271.85	46.32	32.41	-43.26	-32.73	1,462.28	895.29	840.61	54.68	16.373	
7,800.00	7,371.85	7,650.43	7,371.85	46.39	32.52	-43.26	-32.73	1,462.28	895.29	840.37	54.92	16.302	
7,900.00	7,471.85	7,750.43	7,471.85	46.47	32.63	-43.26	-32.73	1,462.28	895.29	840.13	55.16	16.230	
8,000.00	7,571.85	7,850.43	7,571.85	46.54	32.74	-43.26	-32.73	1,462.28	895.29	839.89	55.41	16.158	
8,100.00	7,671.85	7,950.43	7,671.85	46.62	32.85	-43.26	-32.73	1,462.28	895.29	839.64	55.65	16.087	
8,200.00	7,771.85	8,050.43	7,771.85	46.70	32.96	-43.26	-32.73	1,462.28	895.29	839.39	55.90	16.015	
8,300.00	7,871.85	8,150.43	7,871.85	46.77	33.07	-43.26	-32.73	1,462.28	895.29	839.14	56.16	15.943	
8,400.00	7,971.85	8,250.43	7,971.85	46.85	33.19	-43.26	-32.73	1,462.28	895.29	838.88	56.41	15.871	
8,500.00	8,071.85	8,350.43	8,071.85	46.93	33.31	-43.26	-32.73	1,462.28	895.29	838.63	56.67	15.799	
8,600.00	8,171.85	8,450.43	8,171.85	47.01	33.42	-43.26	-32.73	1,462.28	895.29	838.37	56.93	15.727	
8,700.00	8,271.85	8,550.43	8,271.85	47.10	33.54	-43.26	-32.73	1,462.28	895.29	838.10	57.19	15.655	
8,736.15	8,308.00	8,586.58	8,308.00	47.13	33.58	-43.26	-32.73	1,462.28	895.29	838.01	57.28	15.629	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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
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	-90.00	0.00	-50.42	50.42				
100.00	100.00	100.00	100.00	0.10	0.10	-90.00	0.00	-50.42	50.42	50.23	0.19	263.926	
200.00	200.00	200.00	200.00	0.32	0.32	-90.00	0.00	-50.42	50.42	49.78	0.64	78.715 CC, ES	
300.00	299.98	300.02	300.00	0.53	0.52	160.41	-1.74	-50.36	52.03	50.98	1.05	49.531	
400.00	399.84	399.81	399.64	0.75	0.73	156.88	-6.96	-50.18	57.00	55.54	1.47	38.870	
500.00	499.45	499.12	498.57	1.00	0.97	152.22	-15.59	-49.87	65.65	63.72	1.93	33.947	
600.00	598.70	597.73	596.45	1.29	1.26	147.45	-27.55	-49.45	78.25	75.79	2.46	31.813	
700.00	697.47	695.42	692.95	1.62	1.58	143.18	-42.70	-48.91	94.91	91.86	3.05	31.084	
800.00	795.62	791.98	787.77	2.01	1.95	139.61	-60.91	-48.26	115.63	111.90	3.72	31.054 SF	
900.00	893.06	887.22	880.64	2.46	2.37	136.71	-81.98	-47.52	140.30	135.82	4.47	31.352	
1,000.00	989.64	980.96	971.32	2.97	2.84	134.34	-105.72	-46.67	168.80	163.49	5.31	31.785	
1,100.00	1,085.27	1,073.05	1,059.60	3.55	3.34	132.39	-131.92	-45.74	201.02	194.78	6.23	32.253	
1,200.00	1,179.82	1,163.35	1,145.29	4.19	3.89	130.74	-160.35	-44.74	236.81	229.57	7.24	32.707	
1,300.00	1,273.17	1,251.73	1,228.26	4.90	4.47	129.32	-190.78	-43.66	276.04	267.71	8.33	33.127	
1,397.58	1,363.00	1,336.02	1,306.48	5.67	5.07	128.09	-222.17	-42.54	317.51	308.03	9.48	33.494	
1,400.00	1,365.22	1,338.09	1,308.39	5.69	5.08	128.08	-222.96	-42.52	318.58	309.07	9.51	33.500	
1,500.00	1,456.60	1,422.77	1,385.98	6.51	5.72	127.50	-256.86	-41.31	363.32	352.54	10.77	33.719	
1,600.00	1,547.99	1,510.26	1,465.37	7.35	6.42	126.76	-293.60	-40.01	408.99	396.89	12.10	33.803	
1,700.00	1,639.38	1,599.08	1,545.94	8.19	7.14	126.16	-330.97	-38.69	454.76	441.32	13.44	33.827	
1,800.00	1,730.77	1,687.90	1,626.50	9.03	7.86	125.66	-368.35	-37.36	500.56	485.76	14.80	33.831	
1,900.00	1,822.16	1,776.72	1,707.06	9.88	8.59	125.25	-405.72	-36.03	546.38	530.23	16.15	33.826	
2,000.00	1,913.55	1,865.54	1,787.62	10.72	9.31	124.90	-443.10	-34.71	592.23	574.71	17.51	33.815	
2,100.00	2,004.94	1,954.36	1,868.18	11.58	10.04	124.60	-480.47	-33.38	638.09	619.21	18.88	33.802	
2,200.00	2,096.33	2,043.18	1,948.74	12.43	10.77	124.34	-517.85	-32.06	683.96	663.71	20.24	33.788	
2,300.00	2,187.72	2,132.00	2,029.30	13.28	11.50	124.11	-555.23	-30.73	729.84	708.23	21.61	33.774	
2,400.00	2,279.10	2,220.82	2,109.87	14.14	12.23	123.91	-592.60	-29.41	775.72	752.75	22.98	33.761	
2,500.00	2,370.49	2,309.64	2,190.43	14.99	12.97	123.73	-629.98	-28.08	821.62	797.27	24.35	33.748	
2,600.00	2,461.88	2,398.46	2,270.99	15.85	13.70	123.57	-667.35	-26.75	867.52	841.81	25.71	33.736	
2,700.00	2,553.27	2,487.27	2,351.55	16.70	14.43	123.43	-704.73	-25.43	913.42	886.34	27.08	33.726	
2,800.00	2,644.66	2,576.09	2,432.11	17.56	15.17	123.30	-742.10	-24.10	959.33	930.88	28.45	33.716	
2,900.00	2,736.05	2,664.91	2,512.67	18.42	15.90	123.18	-779.48	-22.78	1,005.25	975.42	29.82	33.707	
3,000.00	2,827.44	2,753.73	2,593.23	19.28	16.64	123.08	-816.86	-21.45	1,051.16	1,019.97	31.19	33.700	
3,100.00	2,918.83	2,842.55	2,673.80	20.14	17.37	122.98	-854.23	-20.13	1,097.08	1,064.52	32.56	33.693	
3,200.00	3,010.22	2,931.37	2,754.36	20.99	18.11	122.89	-891.61	-18.80	1,143.00	1,109.07	33.93	33.687	
3,300.00	3,101.60	3,020.19	2,834.92	21.85	18.84	122.81	-928.98	-17.48	1,188.92	1,153.63	35.30	33.682	
3,400.00	3,192.99	3,109.01	2,915.48	22.71	19.58	122.73	-966.36	-16.15	1,234.85	1,198.18	36.67	33.678	
3,500.00	3,284.38	3,197.83	2,996.04	23.57	20.31	122.66	-1,003.73	-14.82	1,280.77	1,242.74	38.03	33.675	
3,600.00	3,375.77	3,286.65	3,076.60	24.43	21.05	122.59	-1,041.11	-13.50	1,326.70	1,287.30	39.40	33.673	
3,700.00	3,467.16	3,375.47	3,157.16	25.29	21.79	122.53	-1,078.49	-12.17	1,372.63	1,331.86	40.77	33.671	
3,800.00	3,558.55	3,464.29	3,237.73	26.15	22.52	122.47	-1,115.86	-10.85	1,418.56	1,376.43	42.13	33.670	
3,900.00	3,649.94	3,553.10	3,318.29	27.01	23.26	122.42	-1,153.24	-9.52	1,464.49	1,420.99	43.50	33.669	
4,000.00	3,741.33	3,641.92	3,398.85	27.87	24.00	122.36	-1,190.61	-8.20	1,510.42	1,465.56	44.86	33.669	
4,100.00	3,832.72	3,730.74	3,479.41	28.73	24.73	122.32	-1,227.99	-6.87	1,556.36	1,510.13	46.22	33.669	
4,200.00	3,924.10	3,851.10	3,589.36	29.59	25.52	122.32	-1,276.90	-5.14	1,601.57	1,553.95	47.62	33.634	
4,300.00	4,015.49	3,980.86	3,710.07	30.45	26.21	122.50	-1,324.45	-3.45	1,644.66	1,595.73	48.93	33.613	
4,400.00	4,106.88	4,113.06	3,835.13	31.31	26.85	122.87	-1,367.22	-1.93	1,685.53	1,635.34	50.19	33.581	
4,500.00	4,198.27	4,247.16	3,963.88	32.17	27.43	123.40	-1,404.68	-0.60	1,724.18	1,672.79	51.39	33.548	
4,600.00	4,289.66	4,382.64	4,095.58	33.03	27.94	124.09	-1,436.36	0.52	1,760.62	1,708.10	52.52	33.520	
4,700.00	4,381.05	4,518.88	4,229.39	33.89	28.37	124.93	-1,461.91	1.43	1,794.91	1,741.34	53.57	33.509	
4,800.00	4,472.44	4,655.28	4,364.42	34.75	28.71	125.91	-1,481.10	2.11	1,827.13	1,772.62	54.51	33.521	
4,900.00	4,563.83	4,791.22	4,499.75	35.61	28.97	127.01	-1,493.80	2.56	1,857.39	1,802.05	55.34	33.562	
5,000.00	4,655.22	4,926.10	4,634.47	36.48	29.14	128.23	-1,500.06	2.78	1,885.86	1,829.81	56.06	33.643	

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 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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
5,100.00	4,746.60	5,038.24	4,746.60	37.34	29.23	129.33	-1,500.81	2.80	1,912.96	1,856.27	56.70	33.739	
5,200.00	4,837.99	5,129.63	4,837.99	38.20	29.28	130.21	-1,500.81	2.80	1,940.30	1,882.97	57.33	33.844	
5,300.00	4,929.38	5,221.01	4,929.38	39.06	29.34	131.07	-1,500.81	2.80	1,968.09	1,910.15	57.94	33.966	
5,400.00	5,020.77	5,312.40	5,020.77	39.92	29.40	131.91	-1,500.81	2.80	1,996.32	1,937.78	58.54	34.104	
5,500.00	5,112.16	5,403.79	5,112.16	40.78	29.46	132.72	-1,500.81	2.80	2,024.97	1,965.86	59.11	34.256	
5,566.57	5,173.00	5,464.63	5,173.00	41.35	29.50	133.25	-1,500.81	2.80	2,044.27	1,984.78	59.49	34.364	
5,600.00	5,203.63	5,495.26	5,203.63	41.61	29.52	133.66	-1,500.81	2.80	2,053.90	1,994.20	59.69	34.407	
5,700.00	5,296.16	5,587.79	5,296.16	42.25	29.58	134.79	-1,500.81	2.80	2,081.38	2,021.18	60.20	34.573	
5,800.00	5,389.95	5,681.58	5,389.95	42.83	29.65	135.81	-1,500.81	2.80	2,106.79	2,046.13	60.65	34.734	
5,900.00	5,484.90	5,776.53	5,484.90	43.36	29.72	136.71	-1,500.81	2.80	2,130.01	2,068.95	61.06	34.885	
6,000.00	5,580.88	5,872.51	5,580.88	43.83	29.79	137.51	-1,500.81	2.80	2,150.94	2,089.52	61.41	35.024	
6,100.00	5,677.78	5,969.42	5,677.78	44.25	29.86	138.19	-1,500.81	2.80	2,169.48	2,107.76	61.73	35.148	
6,200.00	5,775.49	6,067.12	5,775.49	44.61	29.93	138.77	-1,500.81	2.80	2,185.57	2,123.58	62.00	35.253	
6,300.00	5,873.88	6,165.51	5,873.88	44.92	30.01	139.26	-1,500.81	2.80	2,199.14	2,136.91	62.23	35.338	
6,400.00	5,972.83	6,264.46	5,972.83	45.17	30.09	139.64	-1,500.81	2.80	2,210.14	2,147.71	62.43	35.401	
6,500.00	6,072.23	6,363.86	6,072.23	45.38	30.17	139.94	-1,500.81	2.80	2,218.52	2,155.92	62.60	35.440	
6,600.00	6,171.94	6,463.57	6,171.94	45.53	30.25	140.13	-1,500.81	2.80	2,224.25	2,161.51	62.74	35.452	
6,700.00	6,271.86	6,563.49	6,271.86	45.64	30.33	140.24	-1,500.81	2.80	2,227.31	2,164.45	62.85	35.436	
6,764.15	6,336.00	6,627.63	6,336.00	45.68	30.39	-111.49	-1,500.81	2.80	2,227.86	2,164.94	62.92	35.408	
6,800.00	6,371.85	6,663.48	6,371.85	45.71	30.42	-111.49	-1,500.81	2.80	2,227.86	2,164.88	62.98	35.374	
6,900.00	6,471.85	6,763.48	6,471.85	45.77	30.50	-111.49	-1,500.81	2.80	2,227.86	2,164.71	63.15	35.279	
7,000.00	6,571.85	6,863.48	6,571.85	45.84	30.59	-111.49	-1,500.81	2.80	2,227.86	2,164.54	63.32	35.183	
7,100.00	6,671.85	6,963.48	6,671.85	45.90	30.68	-111.49	-1,500.81	2.80	2,227.86	2,164.36	63.50	35.085	
7,200.00	6,771.85	7,063.48	6,771.85	45.97	30.77	-111.49	-1,500.81	2.80	2,227.86	2,164.18	63.68	34.987	
7,300.00	6,871.85	7,163.48	6,871.85	46.04	30.86	-111.49	-1,500.81	2.80	2,227.86	2,164.00	63.86	34.888	
7,400.00	6,971.85	7,263.48	6,971.85	46.11	30.96	-111.49	-1,500.81	2.80	2,227.86	2,163.82	64.04	34.788	
7,500.00	7,071.85	7,363.48	7,071.85	46.18	31.05	-111.49	-1,500.81	2.80	2,227.86	2,163.63	64.23	34.687	
7,600.00	7,171.85	7,463.48	7,171.85	46.25	31.15	-111.49	-1,500.81	2.80	2,227.86	2,163.44	64.42	34.585	
7,700.00	7,271.85	7,563.48	7,271.85	46.32	31.24	-111.49	-1,500.81	2.80	2,227.86	2,163.25	64.61	34.483	
7,800.00	7,371.85	7,663.48	7,371.85	46.39	31.34	-111.49	-1,500.81	2.80	2,227.86	2,163.06	64.80	34.380	
7,900.00	7,471.85	7,763.48	7,471.85	46.47	31.44	-111.49	-1,500.81	2.80	2,227.86	2,162.86	65.00	34.276	
8,000.00	7,571.85	7,863.48	7,571.85	46.54	31.54	-111.49	-1,500.81	2.80	2,227.86	2,162.66	65.20	34.171	
8,100.00	7,671.85	7,963.48	7,671.85	46.62	31.64	-111.49	-1,500.81	2.80	2,227.86	2,162.46	65.40	34.065	
8,200.00	7,771.85	8,063.48	7,771.85	46.70	31.75	-111.49	-1,500.81	2.80	2,227.86	2,162.26	65.60	33.959	
8,300.00	7,871.85	8,163.48	7,871.85	46.77	31.85	-111.49	-1,500.81	2.80	2,227.86	2,162.05	65.81	33.853	
8,326.17	7,898.02	8,189.65	7,898.02	46.79	31.88	-111.49	-1,500.81	2.80	2,227.86	2,161.99	65.86	33.825	
8,400.00	7,971.85	8,208.63	7,971.00	46.85	31.90	-111.49	-1,500.81	2.80	2,228.53	2,162.58	65.96	33.787	
8,500.00	8,071.85	8,208.63	7,917.00	46.93	31.90	-111.49	-1,500.81	2.80	2,233.23	2,167.18	66.06	33.807	
8,600.00	8,171.85	8,208.63	7,917.00	47.01	31.90	-111.49	-1,500.81	2.80	2,242.39	2,176.23	66.16	33.894	
8,700.00	8,271.85	8,208.63	7,917.00	47.10	31.90	-111.49	-1,500.81	2.80	2,255.94	2,189.68	66.26	34.046	
8,736.15	8,308.00	8,208.63	7,917.00	47.13	31.90	-111.49	-1,500.81	2.80	2,261.91	2,195.61	66.30	34.117	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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 14-35 - P_DRY CREEK 14-35 - 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	-89.99	0.00	-16.81	16.81					
100.00	100.00	100.00	100.00	0.10	0.10	-89.99	0.00	-16.81	16.81	16.62	0.19	87.975		
200.00	200.00	200.00	200.00	0.32	0.32	-89.99	0.00	-16.81	16.81	16.17	0.64	26.238	CC	
300.00	299.98	300.43	300.41	0.53	0.53	159.64	-1.18	-15.50	17.18	16.12	1.06	16.276	ES	
400.00	399.84	400.83	400.66	0.75	0.74	153.83	-4.73	-11.60	18.42	16.95	1.48	12.482		
500.00	499.45	501.16	500.61	1.00	0.99	145.84	-10.63	-5.10	20.84	18.89	1.95	10.688		
600.00	598.70	601.40	600.09	1.29	1.28	137.51	-18.87	3.97	24.72	22.22	2.50	9.889		
700.00	697.47	701.51	698.95	1.62	1.62	130.13	-29.44	15.60	30.23	27.08	3.15	9.596		
800.00	795.62	801.47	797.06	2.01	2.01	124.16	-42.30	29.75	37.40	33.48	3.92	9.551	SF	
900.00	893.06	901.23	894.25	2.46	2.46	119.53	-57.42	46.40	46.17	41.37	4.80	9.620		
1,000.00	989.64	1,000.79	990.40	2.97	2.98	115.96	-74.76	65.49	56.50	50.69	5.81	9.731		
1,100.00	1,085.27	1,100.10	1,085.36	3.55	3.55	113.21	-94.30	87.00	68.32	61.39	6.94	9.847		
1,200.00	1,179.82	1,199.15	1,179.02	4.19	4.19	111.04	-115.97	110.85	81.60	73.40	8.20	9.948		
1,300.00	1,273.17	1,297.91	1,271.23	4.90	4.89	109.31	-139.74	137.02	96.28	86.68	9.60	10.032		
1,397.58	1,363.00	1,393.98	1,359.71	5.67	5.64	107.92	-164.89	164.71	111.92	100.84	11.09	10.097		
1,400.00	1,365.22	1,396.36	1,361.89	5.69	5.66	107.90	-165.54	165.42	112.33	101.20	11.12	10.098		
1,500.00	1,456.60	1,494.74	1,451.31	6.51	6.48	106.47	-193.12	195.78	129.15	116.40	12.75	10.126		
1,600.00	1,547.99	1,593.26	1,540.69	7.35	7.32	105.22	-220.98	226.44	146.09	131.68	14.41	10.139		
1,700.00	1,639.38	1,691.77	1,630.07	8.19	8.17	104.23	-248.83	257.09	163.07	147.00	16.07	10.147		
1,800.00	1,730.77	1,790.28	1,719.46	9.03	9.02	103.43	-276.68	287.75	180.09	162.36	17.74	10.153		
1,900.00	1,822.16	1,888.79	1,808.84	9.88	9.88	102.76	-304.53	318.41	197.15	177.74	19.41	10.157		
2,000.00	1,913.55	1,987.30	1,898.22	10.72	10.73	102.20	-332.38	349.07	214.22	193.13	21.09	10.160		
2,100.00	2,004.94	2,085.82	1,987.60	11.58	11.59	101.73	-360.23	379.73	231.31	208.55	22.76	10.162		
2,200.00	2,096.33	2,184.33	2,076.98	12.43	12.46	101.32	-388.08	410.38	248.41	223.97	24.44	10.163		
2,300.00	2,187.72	2,282.84	2,166.36	13.28	13.32	100.96	-415.94	441.04	265.53	239.41	26.12	10.165		
2,400.00	2,279.10	2,381.35	2,255.74	14.14	14.18	100.64	-443.79	471.70	282.65	254.85	27.80	10.166		
2,500.00	2,370.49	2,479.86	2,345.12	14.99	15.05	100.37	-471.64	502.36	299.78	270.30	29.49	10.167		
2,600.00	2,461.88	2,578.37	2,434.51	15.85	15.91	100.12	-499.49	533.01	316.92	285.75	31.17	10.168		
2,700.00	2,553.27	2,676.89	2,523.89	16.70	16.78	99.89	-527.34	563.67	334.06	301.21	32.85	10.169		
2,800.00	2,644.66	2,775.40	2,613.27	17.56	17.64	99.69	-555.19	594.33	351.21	316.67	34.54	10.170		
2,900.00	2,736.05	2,873.91	2,702.65	18.42	18.51	99.51	-583.04	624.99	368.36	332.14	36.22	10.170		
3,000.00	2,827.44	2,972.42	2,792.03	19.28	19.38	99.34	-610.90	655.64	385.51	347.61	37.90	10.171		
3,100.00	2,918.83	3,070.93	2,881.41	20.14	20.24	99.19	-638.75	686.30	402.67	363.08	39.59	10.172		
3,200.00	3,010.22	3,169.45	2,970.79	20.99	21.11	99.05	-666.60	716.96	419.83	378.56	41.27	10.173		
3,300.00	3,101.60	3,267.96	3,060.17	21.85	21.98	98.92	-694.45	747.62	436.99	394.04	42.95	10.174		
3,400.00	3,192.99	3,366.47	3,149.56	22.71	22.85	98.80	-722.30	778.27	454.15	409.52	44.64	10.175		
3,500.00	3,284.38	3,464.98	3,238.94	23.57	23.71	98.69	-750.15	808.93	471.32	425.00	46.32	10.176		
3,600.00	3,375.77	3,563.49	3,328.32	24.43	24.58	98.59	-778.00	839.59	488.48	440.48	48.00	10.176		
3,700.00	3,467.16	3,662.01	3,417.70	25.29	25.45	98.50	-805.85	870.25	505.65	455.97	49.68	10.177		
3,800.00	3,558.55	3,760.52	3,507.08	26.15	26.32	98.41	-833.71	900.91	522.82	471.45	51.37	10.178		
3,900.00	3,649.94	3,859.03	3,596.46	27.01	27.19	98.32	-861.56	931.56	539.99	486.94	53.05	10.179		
4,000.00	3,741.33	3,957.54	3,685.84	27.87	28.06	98.24	-889.41	962.22	557.16	502.43	54.73	10.180		
4,100.00	3,832.72	4,056.05	3,775.22	28.73	28.93	98.17	-917.26	992.88	574.34	517.92	56.41	10.181		
4,200.00	3,924.10	4,154.56	3,864.60	29.59	29.79	98.10	-945.11	1,023.54	591.51	533.41	58.09	10.182		
4,300.00	4,015.49	4,253.08	3,953.99	30.45	30.66	98.04	-972.96	1,054.19	608.68	548.91	59.78	10.183		
4,400.00	4,106.88	4,351.59	4,043.37	31.31	31.53	97.97	-1,000.81	1,084.85	625.86	564.40	61.46	10.184		
4,500.00	4,198.27	4,450.10	4,132.75	32.17	32.40	97.91	-1,028.67	1,115.51	643.03	579.90	63.14	10.185		
4,600.00	4,289.66	4,548.61	4,222.13	33.03	33.27	97.86	-1,056.52	1,146.17	660.21	595.39	64.82	10.186		
4,700.00	4,381.05	4,647.12	4,311.51	33.89	34.14	97.81	-1,084.37	1,176.82	677.39	610.89	66.50	10.187		
4,800.00	4,472.44	4,745.64	4,400.89	34.75	35.01	97.76	-1,112.22	1,207.48	694.56	626.39	68.18	10.188		
4,900.00	4,563.83	4,844.15	4,490.27	35.61	35.88	97.71	-1,140.07	1,238.14	711.74	641.89	69.86	10.189		
5,000.00	4,655.22	4,942.66	4,579.65	36.48	36.75	97.66	-1,167.92	1,268.80	728.92	657.38	71.54	10.190		

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 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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 14-35 - P_DRY CREEK 14-35 - 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
5,100.00	4,746.60	5,046.72	4,674.61	37.34	37.51	97.72	-1,196.54	1,300.30	745.80	672.68	73.12	10.200	
5,200.00	4,837.99	5,152.10	4,772.25	38.20	38.16	98.05	-1,223.17	1,329.61	761.81	687.19	74.62	10.209	
5,300.00	4,929.38	5,257.33	4,871.15	39.06	38.75	98.64	-1,247.34	1,356.21	776.99	700.91	76.08	10.213	
5,400.00	5,020.77	5,362.13	4,970.89	39.92	39.28	99.49	-1,268.96	1,380.02	791.45	713.96	77.50	10.213	
5,500.00	5,112.16	5,466.23	5,071.06	40.78	39.75	100.56	-1,288.00	1,400.97	805.33	726.49	78.85	10.214	
5,566.57	5,173.00	5,535.02	5,137.79	41.35	40.03	101.39	-1,299.23	1,413.33	814.34	734.64	79.70	10.217	
5,600.00	5,203.63	5,569.41	5,171.30	41.61	40.16	101.91	-1,304.44	1,419.07	818.77	738.68	80.10	10.222	
5,700.00	5,296.16	5,672.04	5,271.80	42.25	40.51	103.43	-1,318.38	1,434.41	831.39	750.31	81.08	10.254	
5,800.00	5,389.95	5,774.24	5,372.57	42.83	40.81	104.90	-1,329.84	1,447.03	843.02	761.11	81.90	10.293	
5,900.00	5,484.90	5,875.99	5,473.43	43.36	41.05	106.32	-1,338.85	1,456.94	853.63	771.05	82.58	10.337	
6,000.00	5,580.88	5,977.27	5,574.23	43.83	41.24	107.69	-1,345.41	1,464.17	863.22	780.09	83.13	10.384	
6,100.00	5,677.78	6,078.06	5,674.82	44.25	41.38	109.02	-1,349.56	1,468.74	871.76	788.23	83.54	10.436	
6,200.00	5,775.49	6,178.32	5,775.05	44.61	41.47	110.31	-1,351.33	1,470.68	879.25	795.44	83.81	10.491	
6,300.00	5,873.88	6,277.15	5,873.88	44.92	41.53	111.49	-1,351.40	1,470.76	885.72	801.73	83.98	10.546	
6,400.00	5,972.83	6,376.11	5,972.83	45.17	41.59	112.45	-1,351.40	1,470.76	891.15	807.04	84.11	10.595	
6,500.00	6,072.23	6,475.50	6,072.23	45.38	41.65	113.17	-1,351.40	1,470.76	895.42	811.20	84.22	10.632	
6,600.00	6,171.94	6,575.22	6,171.94	45.53	41.72	113.66	-1,351.40	1,470.76	898.39	814.08	84.31	10.655	
6,700.00	6,271.86	6,675.13	6,271.86	45.64	41.78	113.92	-1,351.40	1,470.76	900.00	815.60	84.41	10.663	
6,764.15	6,336.00	6,739.27	6,336.00	45.68	41.82	-137.77	-1,351.40	1,470.76	900.29	815.83	84.47	10.658	
6,800.00	6,371.85	6,775.13	6,371.85	45.71	41.84	-137.77	-1,351.40	1,470.76	900.29	815.78	84.52	10.652	
6,900.00	6,471.85	6,875.13	6,471.85	45.77	41.91	-137.77	-1,351.40	1,470.76	900.29	815.65	84.65	10.636	
7,000.00	6,571.85	6,975.13	6,571.85	45.84	41.97	-137.77	-1,351.40	1,470.76	900.29	815.51	84.78	10.619	
7,100.00	6,671.85	7,075.13	6,671.85	45.90	42.04	-137.77	-1,351.40	1,470.76	900.29	815.38	84.92	10.602	
7,200.00	6,771.85	7,175.13	6,771.85	45.97	42.11	-137.77	-1,351.40	1,470.76	900.29	815.24	85.05	10.585	
7,300.00	6,871.85	7,275.13	6,871.85	46.04	42.18	-137.77	-1,351.40	1,470.76	900.29	815.10	85.19	10.568	
7,400.00	6,971.85	7,375.13	6,971.85	46.11	42.25	-137.77	-1,351.40	1,470.76	900.29	814.96	85.34	10.550	
7,500.00	7,071.85	7,475.13	7,071.85	46.18	42.32	-137.77	-1,351.40	1,470.76	900.29	814.81	85.48	10.532	
7,600.00	7,171.85	7,575.13	7,171.85	46.25	42.40	-137.77	-1,351.40	1,470.76	900.29	814.67	85.63	10.514	
7,700.00	7,271.85	7,675.13	7,271.85	46.32	42.47	-137.77	-1,351.40	1,470.76	900.29	814.52	85.78	10.496	
7,800.00	7,371.85	7,775.13	7,371.85	46.39	42.54	-137.77	-1,351.40	1,470.76	900.29	814.37	85.93	10.477	
7,900.00	7,471.85	7,875.13	7,471.85	46.47	42.62	-137.77	-1,351.40	1,470.76	900.29	814.21	86.08	10.459	
8,000.00	7,571.85	7,975.13	7,571.85	46.54	42.70	-137.77	-1,351.40	1,470.76	900.29	814.06	86.24	10.440	
8,100.00	7,671.85	8,075.13	7,671.85	46.62	42.78	-137.77	-1,351.40	1,470.76	900.29	813.90	86.39	10.421	
8,200.00	7,771.85	8,175.13	7,771.85	46.70	42.86	-137.77	-1,351.40	1,470.76	900.29	813.74	86.55	10.402	
8,300.00	7,871.85	8,275.13	7,871.85	46.77	42.94	-137.77	-1,351.40	1,470.76	900.29	813.58	86.71	10.383	
8,400.00	7,971.85	8,375.13	7,971.85	46.85	43.02	-137.77	-1,351.40	1,470.76	900.29	813.42	86.88	10.363	
8,500.00	8,071.85	8,475.13	8,071.85	46.93	43.10	-137.77	-1,351.40	1,470.76	900.29	813.25	87.04	10.343	
8,600.00	8,171.85	8,575.13	8,171.85	47.01	43.18	-137.77	-1,351.40	1,470.76	900.29	813.09	87.21	10.324	
8,700.00	8,271.85	8,675.13	8,271.85	47.10	43.27	-137.77	-1,351.40	1,470.76	900.29	812.92	87.38	10.304	
8,736.15	8,308.00	8,711.27	8,308.00	47.13	43.30	-137.77	-1,351.40	1,470.76	900.29	812.86	87.44	10.296	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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		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	-33.62	33.62				
100.00	100.00	100.00	100.00	0.10	0.10	-89.99	0.00	-33.62	33.62	33.42	0.19	175.951	
200.00	200.00	200.00	200.00	0.32	0.32	-89.99	0.00	-33.62	33.62	32.98	0.64	52.477 CC, ES	
300.00	299.98	300.45	300.43	0.53	0.52	159.98	-1.61	-32.92	34.59	33.54	1.05	32.868	
400.00	399.84	400.77	400.61	0.75	0.73	155.23	-6.45	-30.82	37.70	36.23	1.47	25.623	
500.00	499.45	500.85	500.29	1.00	0.98	148.91	-14.48	-27.35	43.33	41.39	1.95	22.272	
600.00	598.70	600.56	599.25	1.29	1.27	142.47	-25.66	-22.52	51.84	49.35	2.49	20.833	
700.00	697.47	699.78	697.25	1.62	1.60	136.80	-39.91	-16.36	63.39	60.28	3.11	20.351	
800.00	795.62	798.41	794.07	2.01	1.99	132.16	-57.15	-8.90	78.00	74.16	3.84	20.321 SF	
900.00	893.06	896.34	889.50	2.46	2.43	128.48	-77.29	-0.20	95.60	90.93	4.66	20.493	
1,000.00	989.64	993.46	983.36	2.97	2.92	125.58	-100.21	9.71	116.09	110.50	5.60	20.741	
1,100.00	1,085.27	1,089.70	1,075.47	3.55	3.46	123.26	-125.79	20.77	139.39	132.75	6.64	21.000	
1,200.00	1,179.82	1,184.95	1,165.66	4.19	4.06	121.38	-153.89	32.92	165.39	157.61	7.79	21.242	
1,300.00	1,273.17	1,279.16	1,253.81	4.90	4.71	119.81	-184.37	46.10	194.03	184.98	9.04	21.455	
1,397.58	1,363.00	1,370.00	1,337.74	5.67	5.38	118.50	-216.26	59.89	224.42	214.05	10.37	21.633	
1,400.00	1,365.22	1,372.24	1,339.80	5.69	5.40	118.48	-217.08	60.24	225.21	214.80	10.41	21.637	
1,500.00	1,456.60	1,466.27	1,425.82	6.51	6.14	117.75	-251.93	75.30	257.79	245.92	11.87	21.718	
1,600.00	1,547.99	1,560.76	1,512.24	7.35	6.89	117.17	-287.01	90.47	290.42	277.07	13.35	21.751	
1,700.00	1,639.38	1,655.25	1,598.65	8.19	7.65	116.70	-322.09	105.64	323.07	308.23	14.84	21.764	
1,800.00	1,730.77	1,749.73	1,685.07	9.03	8.41	116.32	-357.17	120.80	355.74	339.40	16.34	21.767	
1,900.00	1,822.16	1,844.22	1,771.48	9.88	9.18	116.01	-392.25	135.97	388.42	370.58	17.85	21.763	
2,000.00	1,913.55	1,938.71	1,857.90	10.72	9.94	115.74	-427.33	151.14	421.11	401.76	19.36	21.756	
2,100.00	2,004.94	2,033.20	1,944.31	11.58	10.71	115.51	-462.41	166.30	453.81	432.94	20.87	21.748	
2,200.00	2,096.33	2,127.69	2,030.73	12.43	11.48	115.32	-497.49	181.47	486.51	464.13	22.38	21.739	
2,300.00	2,187.72	2,222.18	2,117.14	13.28	12.25	115.14	-532.57	196.64	519.22	495.33	23.89	21.731	
2,400.00	2,279.10	2,316.67	2,203.56	14.14	13.02	114.99	-567.65	211.80	551.93	526.52	25.41	21.722	
2,500.00	2,370.49	2,411.16	2,289.97	14.99	13.79	114.86	-602.74	226.97	584.64	557.72	26.93	21.714	
2,600.00	2,461.88	2,505.65	2,376.39	15.85	14.57	114.73	-637.82	242.14	617.36	588.92	28.44	21.706	
2,700.00	2,553.27	2,600.14	2,462.80	16.70	15.34	114.63	-672.90	257.30	650.08	620.12	29.96	21.699	
2,800.00	2,644.66	2,694.63	2,549.22	17.56	16.11	114.53	-707.98	272.47	682.80	651.32	31.48	21.692	
2,900.00	2,736.05	2,789.12	2,635.63	18.42	16.88	114.44	-743.06	287.64	715.52	682.53	32.99	21.687	
3,000.00	2,827.44	2,883.61	2,722.05	19.28	17.66	114.36	-778.14	302.80	748.24	713.73	34.51	21.681	
3,100.00	2,918.83	2,978.09	2,808.46	20.14	18.43	114.28	-813.22	317.97	780.97	744.94	36.03	21.677	
3,200.00	3,010.22	3,072.58	2,894.88	20.99	19.21	114.21	-848.30	333.14	813.69	776.15	37.55	21.672	
3,300.00	3,101.60	3,167.07	2,981.29	21.85	19.98	114.15	-883.38	348.30	846.42	807.36	39.06	21.669	
3,400.00	3,192.99	3,261.56	3,067.71	22.71	20.76	114.09	-918.46	363.47	879.15	838.57	40.58	21.665	
3,500.00	3,284.38	3,356.05	3,154.12	23.57	21.53	114.04	-953.54	378.64	911.88	869.78	42.09	21.662	
3,600.00	3,375.77	3,450.54	3,240.54	24.43	22.31	113.99	-988.62	393.80	944.60	900.99	43.61	21.660	
3,700.00	3,467.16	3,545.03	3,326.95	25.29	23.08	113.94	-1,023.70	408.97	977.33	932.21	45.13	21.658	
3,800.00	3,558.55	3,639.52	3,413.37	26.15	23.86	113.89	-1,058.78	424.14	1,010.06	963.42	46.64	21.656	
3,900.00	3,649.94	3,734.01	3,499.78	27.01	24.63	113.85	-1,093.86	439.30	1,042.79	994.64	48.16	21.655	
4,000.00	3,741.33	3,828.50	3,586.20	27.87	25.41	113.81	-1,128.95	454.47	1,075.53	1,025.86	49.67	21.654	
4,100.00	3,832.72	3,922.99	3,672.61	28.73	26.19	113.78	-1,164.03	469.64	1,108.26	1,057.07	51.18	21.653	
4,200.00	3,924.10	4,017.48	3,759.02	29.59	26.96	113.74	-1,199.11	484.80	1,140.99	1,088.29	52.70	21.652	
4,300.00	4,015.49	4,111.97	3,845.44	30.45	27.74	113.71	-1,234.19	499.97	1,173.72	1,119.51	54.21	21.652	
4,400.00	4,106.88	4,206.46	3,931.85	31.31	28.51	113.68	-1,269.27	515.14	1,206.45	1,150.73	55.72	21.652	
4,500.00	4,198.27	4,300.94	4,018.27	32.17	29.29	113.65	-1,304.35	530.30	1,239.19	1,181.96	57.23	21.652	
4,600.00	4,289.66	4,395.43	4,104.68	33.03	30.07	113.62	-1,339.43	545.47	1,271.92	1,213.18	58.74	21.653	
4,700.00	4,381.05	4,489.92	4,191.10	33.89	30.84	113.60	-1,374.51	560.64	1,304.65	1,244.40	60.25	21.653	
4,800.00	4,472.44	4,584.41	4,277.51	34.75	31.62	113.57	-1,409.59	575.80	1,337.39	1,275.62	61.76	21.654	
4,900.00	4,563.83	4,678.90	4,363.93	35.61	32.40	113.55	-1,444.67	590.97	1,370.12	1,306.85	63.27	21.655	
5,000.00	4,655.22	4,773.39	4,450.34	36.48	33.17	113.53	-1,479.75	606.14	1,402.85	1,338.08	64.78	21.656	

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 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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
5,100.00	4,746.60	4,867.88	4,536.76	37.34	33.95	113.50	-1,514.83	621.30	1,435.59	1,369.30	66.29	21.658	
5,200.00	4,837.99	4,962.37	4,623.17	38.20	34.72	113.48	-1,549.91	636.47	1,468.32	1,400.53	67.79	21.659	
5,300.00	4,929.38	5,056.86	4,709.59	39.06	35.50	113.46	-1,584.99	651.64	1,501.06	1,431.76	69.30	21.661	
5,400.00	5,020.77	5,151.35	4,796.00	39.92	36.28	113.44	-1,620.07	666.81	1,533.79	1,462.99	70.80	21.662	
5,500.00	5,112.16	5,245.84	4,882.42	40.78	37.05	113.43	-1,655.16	681.97	1,566.53	1,494.22	72.31	21.664	
5,566.57	5,173.00	5,308.74	4,939.95	41.35	37.57	113.41	-1,678.51	692.07	1,588.32	1,515.01	73.31	21.666	
5,600.00	5,203.63	5,340.35	4,968.86	41.61	37.83	113.61	-1,690.24	697.14	1,599.19	1,525.37	73.81	21.665	
5,700.00	5,296.16	5,435.16	5,055.56	42.25	38.61	114.11	-1,725.44	712.36	1,630.82	1,555.62	75.20	21.687	
5,800.00	5,389.95	5,546.35	5,157.65	42.83	39.37	114.45	-1,765.89	729.85	1,660.82	1,584.31	76.51	21.708	
5,900.00	5,484.90	5,668.88	5,271.94	43.36	40.04	114.73	-1,806.42	747.37	1,688.06	1,610.39	77.67	21.734	
6,000.00	5,580.88	5,793.23	5,389.74	43.83	40.66	114.99	-1,842.93	763.15	1,712.37	1,633.64	78.73	21.751	
6,100.00	5,677.78	5,919.21	5,510.74	44.25	41.20	115.23	-1,875.09	777.06	1,733.67	1,654.00	79.67	21.761	
6,200.00	5,775.49	6,046.62	5,634.56	44.61	41.68	115.46	-1,902.63	788.96	1,751.88	1,671.39	80.49	21.765	
6,300.00	5,873.88	6,175.22	5,760.76	44.92	42.09	115.66	-1,925.26	798.75	1,766.96	1,685.77	81.19	21.763	
6,400.00	5,972.83	6,304.76	5,888.88	45.17	42.42	115.85	-1,942.79	806.33	1,778.87	1,697.10	81.77	21.754	
6,500.00	6,072.23	6,434.98	6,018.40	45.38	42.67	116.02	-1,955.03	811.62	1,787.55	1,705.34	82.21	21.743	
6,600.00	6,171.94	6,565.60	6,148.79	45.53	42.84	116.18	-1,961.87	814.58	1,793.00	1,710.47	82.53	21.725	
6,700.00	6,271.86	6,688.68	6,271.86	45.64	42.94	116.31	-1,963.42	815.25	1,795.25	1,712.52	82.73	21.700	
6,764.15	6,336.00	6,752.83	6,336.00	45.68	42.98	-135.41	-1,963.42	815.25	1,795.57	1,712.75	82.81	21.682	
6,800.00	6,371.85	6,788.68	6,371.85	45.71	43.00	-135.41	-1,963.42	815.25	1,795.57	1,712.71	82.86	21.670	
6,900.00	6,471.85	6,888.68	6,471.85	45.77	43.05	-135.41	-1,963.42	815.25	1,795.57	1,712.58	82.99	21.637	
7,000.00	6,571.85	6,988.68	6,571.85	45.84	43.11	-135.41	-1,963.42	815.25	1,795.57	1,712.45	83.12	21.602	
7,100.00	6,671.85	7,088.68	6,671.85	45.90	43.17	-135.41	-1,963.42	815.25	1,795.57	1,712.32	83.25	21.568	
7,200.00	6,771.85	7,188.68	6,771.85	45.97	43.23	-135.41	-1,963.42	815.25	1,795.57	1,712.18	83.39	21.533	
7,300.00	6,871.85	7,288.68	6,871.85	46.04	43.29	-135.41	-1,963.42	815.25	1,795.57	1,712.04	83.53	21.497	
7,400.00	6,971.85	7,388.68	6,971.85	46.11	43.35	-135.41	-1,963.42	815.25	1,795.57	1,711.90	83.66	21.461	
7,500.00	7,071.85	7,488.68	7,071.85	46.18	43.41	-135.41	-1,963.42	815.25	1,795.57	1,711.76	83.81	21.425	
7,600.00	7,171.85	7,588.68	7,171.85	46.25	43.48	-135.41	-1,963.42	815.25	1,795.57	1,711.62	83.95	21.388	
7,700.00	7,271.85	7,688.68	7,271.85	46.32	43.54	-135.41	-1,963.42	815.25	1,795.57	1,711.47	84.10	21.351	
7,800.00	7,371.85	7,788.68	7,371.85	46.39	43.61	-135.41	-1,963.42	815.25	1,795.57	1,711.32	84.25	21.313	
7,900.00	7,471.85	7,888.68	7,471.85	46.47	43.68	-135.41	-1,963.42	815.25	1,795.57	1,711.17	84.40	21.275	
8,000.00	7,571.85	7,988.68	7,571.85	46.54	43.75	-135.41	-1,963.42	815.25	1,795.57	1,711.02	84.55	21.237	
8,100.00	7,671.85	8,088.68	7,671.85	46.62	43.82	-135.41	-1,963.42	815.25	1,795.57	1,710.86	84.70	21.198	
8,200.00	7,771.85	8,188.68	7,771.85	46.70	43.89	-135.41	-1,963.42	815.25	1,795.57	1,710.71	84.86	21.159	
8,300.00	7,871.85	8,288.68	7,871.85	46.77	43.96	-135.41	-1,963.42	815.25	1,795.57	1,710.55	85.02	21.119	
8,400.00	7,971.85	8,388.68	7,971.85	46.85	44.03	-135.41	-1,963.42	815.25	1,795.57	1,710.39	85.18	21.079	
8,500.00	8,071.85	8,488.68	8,071.85	46.93	44.10	-135.41	-1,963.42	815.25	1,795.57	1,710.22	85.35	21.039	
8,600.00	8,171.85	8,588.68	8,171.85	47.01	44.18	-135.41	-1,963.42	815.25	1,795.57	1,710.06	85.51	20.998	
8,700.00	8,271.85	8,688.68	8,271.85	47.10	44.25	-135.41	-1,963.42	815.25	1,795.57	1,709.89	85.68	20.957	
8,736.15	8,308.00	8,724.83	8,308.00	47.13	44.28	-135.41	-1,963.42	815.25	1,795.57	1,709.83	85.74	20.942	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-56.39	57.91	-87.12	106.32				
100.00	100.00	81.00	81.00	0.10	1.62	-56.39	57.91	-87.12	104.61	102.90	1.72	60.978	
200.00	200.00	181.00	181.00	0.32	5.24	-56.39	57.91	-87.12	104.61	99.05	5.56	18.814 CC	
300.00	299.98	280.98	280.98	0.53	9.24	-164.88	57.91	-87.12	106.30	96.53	9.76	10.887 ES	
400.00	399.84	380.84	380.84	0.75	13.23	-165.56	57.91	-87.12	111.36	97.42	13.94	7.988	
500.00	499.45	480.45	480.45	1.00	17.22	-166.56	57.91	-87.12	119.82	101.73	18.09	6.625	
600.00	598.70	579.70	579.70	1.29	21.19	-167.74	57.91	-87.12	131.70	109.53	22.17	5.939	
700.00	697.47	678.47	678.47	1.62	25.14	-168.98	57.91	-87.12	147.03	120.84	26.19	5.614	
800.00	795.62	776.62	776.62	2.01	29.06	-170.17	57.91	-87.12	165.81	135.70	30.11	5.507 SF	
900.00	893.06	874.06	874.06	2.46	32.96	-171.27	57.91	-87.12	188.03	154.11	33.92	5.543	
1,000.00	989.64	970.64	970.64	2.97	36.83	-172.25	57.91	-87.12	213.66	176.06	37.60	5.682	
1,100.00	1,085.27	1,066.27	1,066.27	3.55	40.65	-173.11	57.91	-87.12	242.68	201.54	41.14	5.899	
1,200.00	1,179.82	1,160.82	1,160.82	4.19	44.43	-173.85	57.91	-87.12	275.04	230.53	44.52	6.178	
1,300.00	1,273.17	1,254.17	1,254.17	4.90	48.17	-174.49	57.91	-87.12	310.72	262.99	47.72	6.511	
1,397.58	1,363.00	1,344.00	1,344.00	5.67	51.76	-175.02	57.91	-87.12	348.67	298.00	50.67	6.881	
1,400.00	1,365.22	1,346.22	1,346.22	5.69	51.85	-175.03	57.91	-87.12	349.65	298.89	50.76	6.888	
1,500.00	1,456.60	1,437.60	1,437.60	6.51	55.50	-175.55	57.91	-87.12	390.13	335.70	54.43	7.167	
1,600.00	1,547.99	1,528.99	1,528.99	7.35	59.16	-175.96	57.91	-87.12	430.63	372.53	58.11	7.411	
1,700.00	1,639.38	1,620.38	1,620.38	8.19	62.82	-176.31	57.91	-87.12	471.15	409.36	61.79	7.625	
1,800.00	1,730.77	1,711.77	1,711.77	9.03	66.47	-176.60	57.91	-87.12	511.69	446.21	65.48	7.814	
1,900.00	1,822.16	1,803.16	1,803.16	9.88	70.13	-176.85	57.91	-87.12	552.23	483.06	69.17	7.984	
2,000.00	1,913.55	1,894.55	1,894.55	10.72	73.78	-177.07	57.91	-87.12	592.78	519.91	72.86	8.136	
2,100.00	2,004.94	1,985.94	1,985.94	11.58	77.44	-177.26	57.91	-87.12	633.33	556.77	76.56	8.273	
2,200.00	2,096.33	2,077.33	2,077.33	12.43	81.09	-177.42	57.91	-87.12	673.89	593.64	80.25	8.397	
2,300.00	2,187.72	2,168.72	2,168.72	13.28	84.75	-177.57	57.91	-87.12	714.45	630.51	83.95	8.511	
2,400.00	2,279.10	2,260.10	2,260.10	14.14	88.40	-177.70	57.91	-87.12	755.02	667.38	87.65	8.614	
2,500.00	2,370.49	2,351.49	2,351.49	14.99	92.06	-177.82	57.91	-87.12	795.59	704.25	91.34	8.710	
2,600.00	2,461.88	2,442.88	2,442.88	15.85	95.72	-177.92	57.91	-87.12	836.17	741.12	95.04	8.798	
2,700.00	2,553.27	2,534.27	2,534.27	16.70	99.37	-178.02	57.91	-87.12	876.74	778.00	98.74	8.879	
2,800.00	2,644.66	2,625.66	2,625.66	17.56	103.03	-178.11	57.91	-87.12	917.32	814.87	102.44	8.954	
2,900.00	2,736.05	2,717.05	2,717.05	18.42	106.68	-178.19	57.91	-87.12	957.90	851.75	106.14	9.024	
3,000.00	2,827.44	2,808.44	2,808.44	19.28	110.34	-178.26	57.91	-87.12	998.48	888.63	109.85	9.090	
3,100.00	2,918.83	2,899.83	2,899.83	20.14	113.99	-178.33	57.91	-87.12	1,039.06	925.51	113.55	9.151	
3,200.00	3,010.22	2,991.22	2,991.22	20.99	117.65	-178.39	57.91	-87.12	1,079.64	962.39	117.25	9.208	
3,300.00	3,101.60	3,082.60	3,082.60	21.85	121.30	-178.45	57.91	-87.12	1,120.22	999.27	120.95	9.262	
3,400.00	3,192.99	3,173.99	3,173.99	22.71	124.96	-178.50	57.91	-87.12	1,160.81	1,036.15	124.65	9.312	
3,500.00	3,284.38	3,265.38	3,265.38	23.57	128.62	-178.55	57.91	-87.12	1,201.39	1,073.04	128.36	9.360	
3,600.00	3,375.77	3,356.77	3,356.77	24.43	132.27	-178.60	57.91	-87.12	1,241.98	1,109.92	132.06	9.405	
3,700.00	3,467.16	3,448.16	3,448.16	25.29	135.93	-178.65	57.91	-87.12	1,282.57	1,146.80	135.76	9.447	
3,800.00	3,558.55	3,539.55	3,539.55	26.15	139.58	-178.69	57.91	-87.12	1,323.15	1,183.69	139.47	9.487	
3,900.00	3,649.94	3,630.94	3,630.94	27.01	143.24	-178.73	57.91	-87.12	1,363.74	1,220.57	143.17	9.525	
4,000.00	3,741.33	3,722.33	3,722.33	27.87	146.89	-178.76	57.91	-87.12	1,404.33	1,257.45	146.87	9.561	
4,100.00	3,832.72	3,813.72	3,813.72	28.73	150.55	-178.80	57.91	-87.12	1,444.92	1,294.34	150.58	9.596	
4,200.00	3,924.10	3,905.10	3,905.10	29.59	154.20	-178.83	57.91	-87.12	1,485.51	1,331.22	154.28	9.628	
4,300.00	4,015.49	3,996.49	3,996.49	30.45	157.86	-178.86	57.91	-87.12	1,526.10	1,368.11	157.99	9.660	
4,400.00	4,106.88	4,087.88	4,087.88	31.31	161.52	-178.89	57.91	-87.12	1,566.69	1,405.00	161.69	9.689	
4,500.00	4,198.27	4,179.27	4,179.27	32.17	165.17	-178.92	57.91	-87.12	1,607.28	1,441.88	165.40	9.718	
4,600.00	4,289.66	4,270.66	4,270.66	33.03	168.83	-178.95	57.91	-87.12	1,647.87	1,478.77	169.10	9.745	
4,700.00	4,381.05	4,362.05	4,362.05	33.89	172.48	-178.97	57.91	-87.12	1,688.46	1,515.65	172.80	9.771	
4,800.00	4,472.44	4,453.44	4,453.44	34.75	176.14	-179.00	57.91	-87.12	1,729.05	1,552.54	176.51	9.796	
4,900.00	4,563.83	4,544.83	4,544.83	35.61	179.79	-179.02	57.91	-87.12	1,769.64	1,589.43	180.21	9.820	
5,000.00	4,655.22	4,636.22	4,636.22	36.48	183.45	-179.04	57.91	-87.12	1,810.23	1,626.31	183.92	9.843	

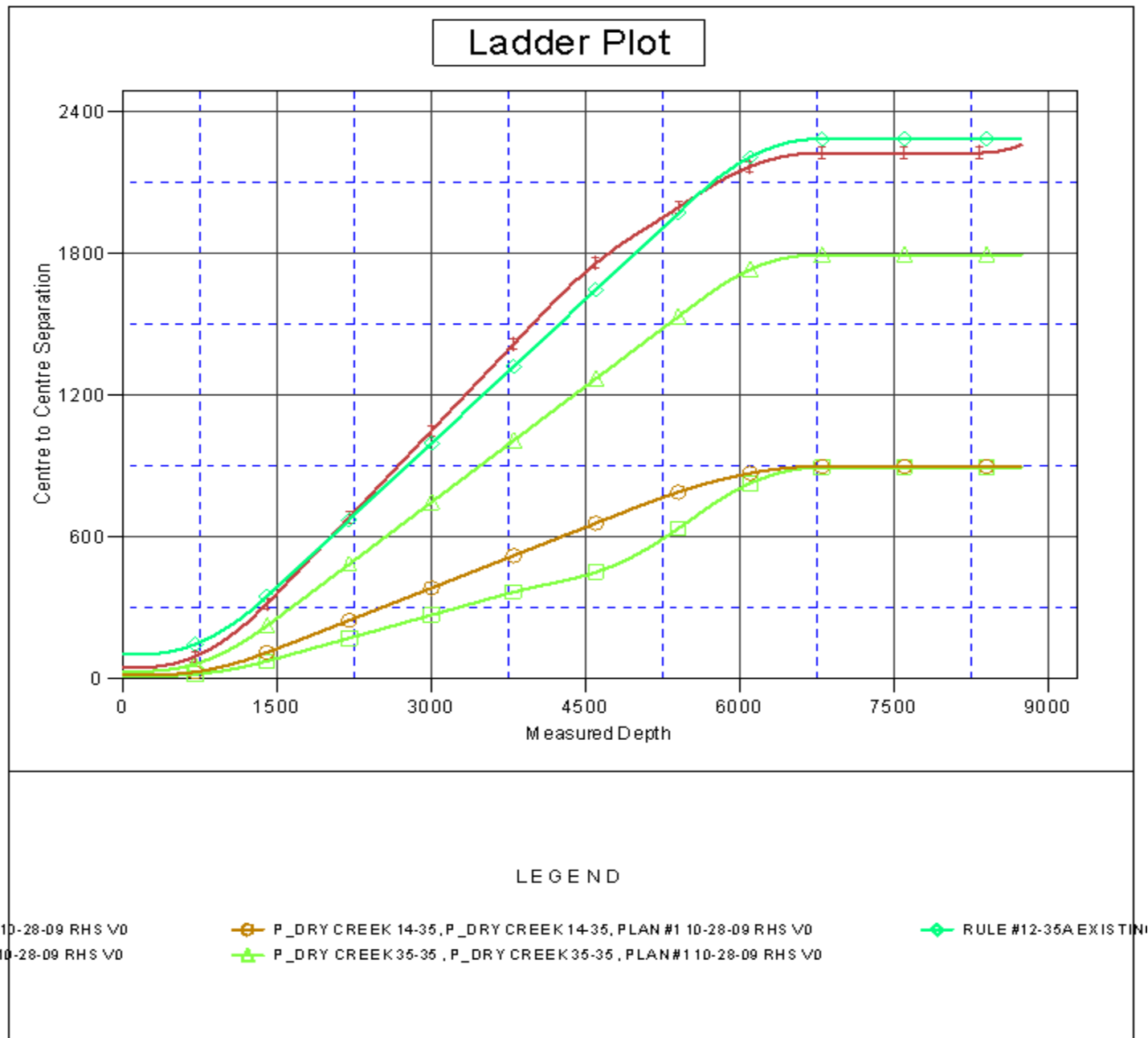
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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	
5,100.00	4,746.60	4,727.60	4,727.60	37.34	187.10	-179.06	57.91	-87.12	1,850.82	1,663.20	187.62	9.865	
5,200.00	4,837.99	4,818.99	4,818.99	38.20	190.76	-179.08	57.91	-87.12	1,891.42	1,700.09	191.33	9.886	
5,300.00	4,929.38	4,910.38	4,910.38	39.06	194.42	-179.10	57.91	-87.12	1,932.01	1,736.97	195.03	9.906	
5,400.00	5,020.77	5,001.77	5,001.77	39.92	198.07	-179.12	57.91	-87.12	1,972.60	1,773.86	198.74	9.926	
5,500.00	5,112.16	5,093.16	5,093.16	40.78	201.73	-179.14	57.91	-87.12	2,013.19	1,810.75	202.44	9.944	
5,566.57	5,173.00	5,154.00	5,154.00	41.35	204.16	-179.15	57.91	-87.12	2,040.22	1,835.31	204.91	9.957	
5,600.00	5,203.63	5,184.63	5,184.63	41.61	205.39	-179.16	57.91	-87.12	2,053.61	1,846.50	207.11	9.916	
5,700.00	5,296.16	5,277.16	5,277.16	42.25	209.09	-179.19	57.91	-87.12	2,091.52	1,877.92	213.60	9.792	
5,800.00	5,389.95	5,370.95	5,370.95	42.83	212.84	-179.21	57.91	-87.12	2,126.18	1,906.23	219.95	9.667	
5,900.00	5,484.90	5,465.90	5,465.90	43.36	216.64	-179.23	57.91	-87.12	2,157.55	1,931.40	226.15	9.540	
6,000.00	5,580.88	5,561.88	5,561.88	43.83	220.48	-179.25	57.91	-87.12	2,185.58	1,953.41	232.17	9.414	
6,100.00	5,677.78	5,658.78	5,658.78	44.25	224.35	-179.26	57.91	-87.12	2,210.25	1,972.24	238.01	9.287	
6,200.00	5,775.49	5,756.49	5,756.49	44.61	228.26	-179.27	57.91	-87.12	2,231.52	1,987.90	243.62	9.160	
6,300.00	5,873.88	5,854.88	5,854.88	44.92	232.20	-179.28	57.91	-87.12	2,249.37	2,000.36	249.01	9.033	
6,400.00	5,972.83	5,953.83	5,953.83	45.17	236.15	-179.29	57.91	-87.12	2,263.77	2,009.64	254.14	8.908	
6,500.00	6,072.23	6,053.23	6,053.23	45.38	240.13	-179.30	57.91	-87.12	2,274.72	2,015.73	258.99	8.783	
6,600.00	6,171.94	6,152.94	6,152.94	45.53	244.12	-179.30	57.91	-87.12	2,282.18	2,018.63	263.55	8.659	
6,700.00	6,271.86	6,252.86	6,252.86	45.64	248.11	-179.31	57.91	-87.12	2,286.17	2,018.37	267.80	8.537	
6,764.15	6,336.00	6,317.00	6,317.00	45.68	250.68	-71.05	57.91	-87.12	2,286.89	2,016.54	270.35	8.459	
6,800.00	6,371.85	6,352.85	6,352.85	45.71	252.11	-71.05	57.91	-87.12	2,286.89	2,015.05	271.83	8.413	
6,900.00	6,471.85	6,452.85	6,452.85	45.77	256.11	-71.05	57.91	-87.12	2,286.89	2,010.93	275.96	8.287	
7,000.00	6,571.85	6,552.85	6,552.85	45.84	260.11	-71.05	57.91	-87.12	2,286.89	2,006.79	280.09	8.165	
7,100.00	6,671.85	6,652.85	6,652.85	45.90	264.11	-71.05	57.91	-87.12	2,286.89	2,002.66	284.22	8.046	
7,200.00	6,771.85	6,752.85	6,752.85	45.97	268.11	-71.05	57.91	-87.12	2,286.89	1,998.53	288.36	7.931	
7,300.00	6,871.85	6,852.85	6,852.85	46.04	272.11	-71.05	57.91	-87.12	2,286.89	1,994.39	292.49	7.819	
7,400.00	6,971.85	6,952.85	6,952.85	46.11	276.11	-71.05	57.91	-87.12	2,286.89	1,990.25	296.63	7.709	
7,500.00	7,071.85	7,052.85	7,052.85	46.18	280.11	-71.05	57.91	-87.12	2,286.89	1,986.11	300.77	7.603	
7,600.00	7,171.85	7,152.85	7,152.85	46.25	284.11	-71.05	57.91	-87.12	2,286.89	1,981.97	304.91	7.500	
7,700.00	7,271.85	7,252.85	7,252.85	46.32	288.11	-71.05	57.91	-87.12	2,286.89	1,977.83	309.05	7.400	
7,800.00	7,371.85	7,352.85	7,352.85	46.39	292.11	-71.05	57.91	-87.12	2,286.89	1,973.69	313.20	7.302	
7,900.00	7,471.85	7,452.85	7,452.85	46.47	296.11	-71.05	57.91	-87.12	2,286.89	1,969.54	317.34	7.206	
8,000.00	7,571.85	7,552.85	7,552.85	46.54	300.11	-71.05	57.91	-87.12	2,286.89	1,965.40	321.49	7.113	
8,100.00	7,671.85	7,652.85	7,652.85	46.62	304.11	-71.05	57.91	-87.12	2,286.89	1,961.25	325.64	7.023	
8,200.00	7,771.85	7,752.85	7,752.85	46.70	308.11	-71.05	57.91	-87.12	2,286.89	1,957.10	329.79	6.934	
8,300.00	7,871.85	7,852.85	7,852.85	46.77	312.11	-71.05	57.91	-87.12	2,286.89	1,952.95	333.94	6.848	
8,400.00	7,971.85	7,952.85	7,952.85	46.85	316.11	-71.05	57.91	-87.12	2,286.89	1,948.80	338.09	6.764	
8,500.00	8,071.85	8,052.85	8,052.85	46.93	320.11	-71.05	57.91	-87.12	2,286.89	1,944.64	342.24	6.682	
8,600.00	8,171.85	8,152.85	8,152.85	47.01	324.11	-71.05	57.91	-87.12	2,286.89	1,940.49	346.39	6.602	
8,700.00	8,271.85	8,252.85	8,252.85	47.10	328.11	-71.05	57.91	-87.12	2,286.89	1,936.34	350.55	6.524	
8,736.15	8,308.00	8,289.00	8,289.00	47.13	329.56	-71.05	57.91	-87.12	2,286.89	1,934.83	352.05	6.496	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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 23-35
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 23-35
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 23-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 23-35	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 23-35
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