



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DRY CREEK 12-35 PAD

P_DRY CREEK 35-35

P_DRY CREEK 35-35

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 35-35

+N/-S	+E/-W	Northing	Ground Level:	5029.00	Longitude	Slot
0.00	0.00	1245632.10	Easting	3177762.97	40° 0' 21.240 N	104° 51' 55.512 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3163.00	3365.76	PARKMAN TOP
4765.00	5117.45	SUSSEX TOP
7347.00	7763.83	NIO A TOP
7747.00	8163.83	CODELL TOP
8184.00	8600.83	JSAND TOP

SECTION DETAILS

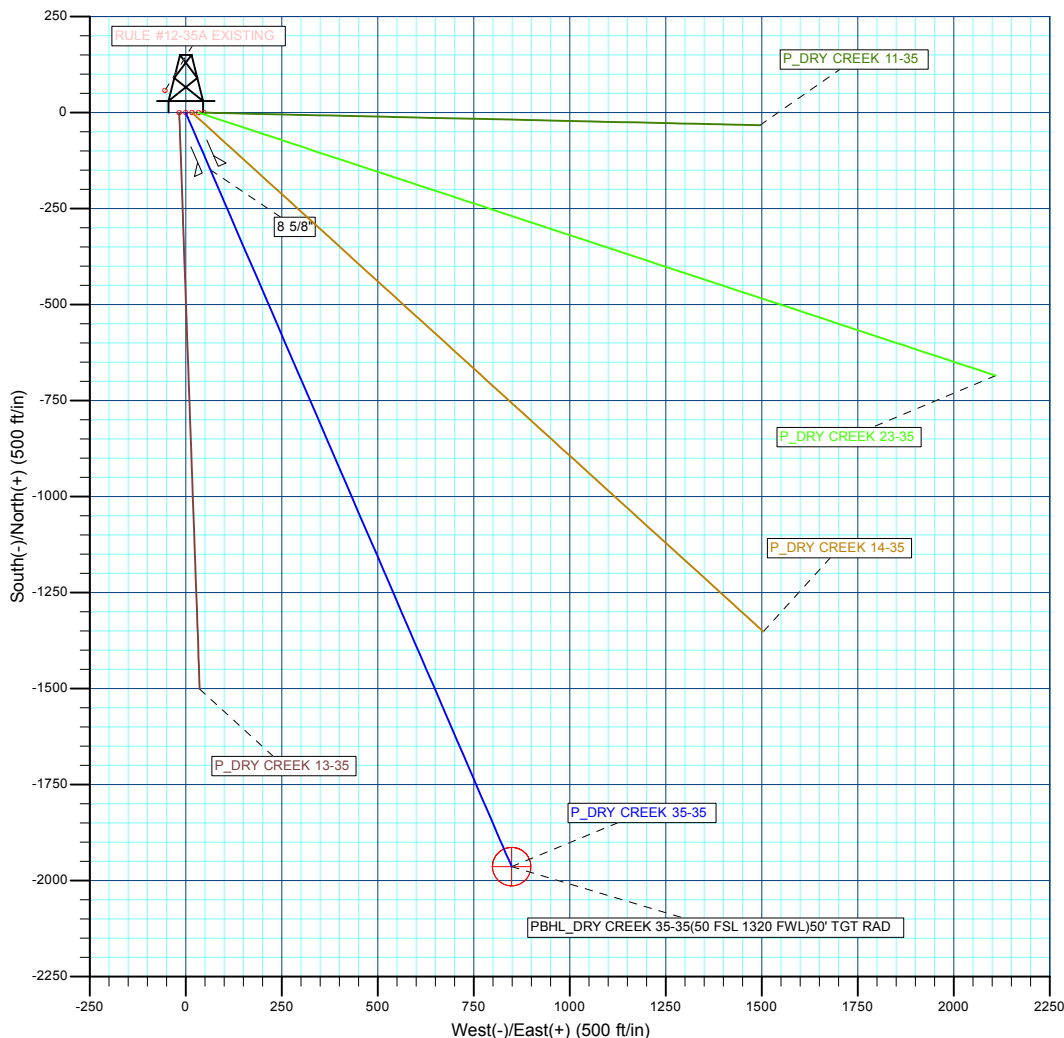
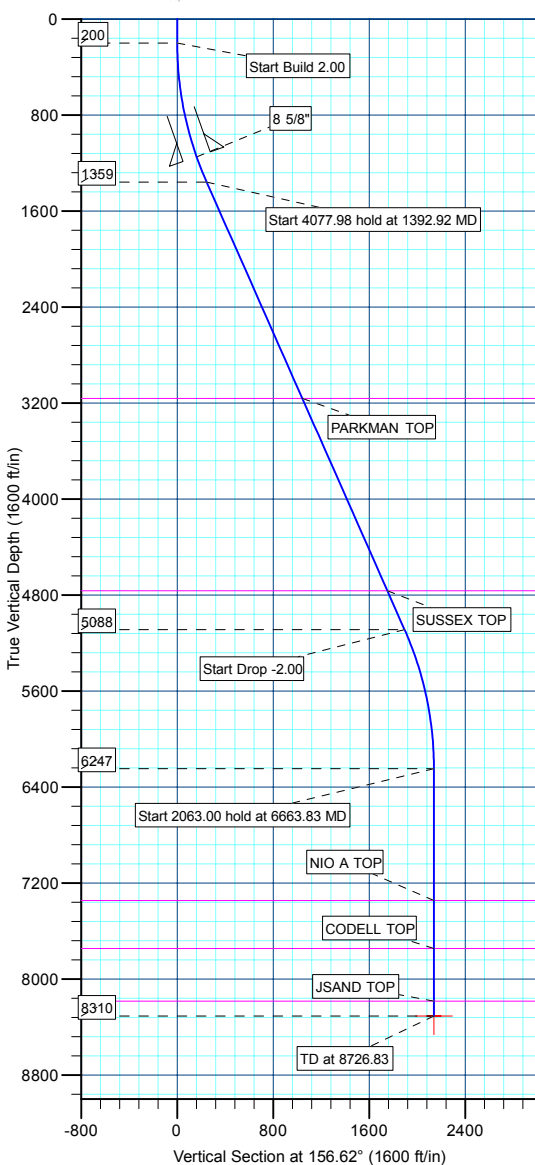
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
1392.92	23.86	156.62	1358.75	-224.70	97.15	2.00	156.62	244.80	
5470.91	23.86	156.62	5088.25	-1738.72	751.71	0.00	0.00	1894.26	
6663.83	0.00	0.00	6247.00	-1963.42	848.86	2.00	180.00	2139.06	
8726.83	0.00	0.00	8310.00	-1963.42	848.86	0.00	0.00	2139.06	PBHL_DRY CREEK 35-35(50 FSL 1320 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	8310.00	-1963.42	848.86	1243674.81	3178625.86	40° 0' 1.836 N	104° 51' 44.604 W	Circle (Radius: 50.00)

Plan: PLAN #1 10-28-09 RHS (P_DRY CREEK 35-35 /P_DRY CREEK 35-35)

Created By: Robert H. Scott

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 35-35		
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 35-35					
Well Position	+N/-S	-0.01 ft	Northing:	1,245,632.10 ft	Latitude:	40° 0' 21.240 N
	+E/-W	-47.62 ft	Easting:	3,177,762.97 ft	Longitude:	104° 51' 55.512 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,029.00 ft

Wellbore	P_DRY CREEK 35-35				
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	156.62

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	
1,392.92	23.86	156.62	1,358.75	-224.70	97.15	2.00	2.00	0.00	156.62	
5,470.91	23.86	156.62	5,088.25	-1,738.72	751.71	0.00	0.00	0.00	0.00	
6,663.83	0.00	0.00	6,247.00	-1,963.42	848.86	2.00	-2.00	0.00	180.00	
8,726.83	0.00	0.00	8,310.00	-1,963.42	848.86	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 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 35-35		
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	156.62	299.98	-1.60	0.69	1.75	2.00	2.00	0.00
400.00	4.00	156.62	399.84	-6.41	2.77	6.98	2.00	2.00	0.00
500.00	6.00	156.62	499.45	-14.40	6.23	15.69	2.00	2.00	0.00
600.00	8.00	156.62	598.70	-25.59	11.06	27.88	2.00	2.00	0.00
700.00	10.00	156.62	697.47	-39.95	17.27	43.52	2.00	2.00	0.00
800.00	12.00	156.62	795.62	-57.46	24.84	62.60	2.00	2.00	0.00
900.00	14.00	156.62	893.06	-78.11	33.77	85.10	2.00	2.00	0.00
1,000.00	16.00	156.62	989.64	-101.86	44.04	110.98	2.00	2.00	0.00
1,100.00	18.00	156.62	1,085.27	-128.70	55.64	140.21	2.00	2.00	0.00
8 5/8"									
1,168.33	19.37	156.62	1,150.00	-148.79	64.33	162.10	2.00	2.00	0.00
1,200.00	20.00	156.62	1,179.82	-158.58	68.56	172.77	2.00	2.00	0.00
1,300.00	22.00	156.62	1,273.17	-191.47	82.78	208.60	2.00	2.00	0.00
Start 4077.98 hold at 1392.92 MD									
1,392.92	23.86	156.62	1,358.75	-224.70	97.15	244.80	2.00	2.00	0.00
1,400.00	23.86	156.62	1,365.22	-227.33	98.28	247.67	0.00	0.00	0.00
1,500.00	23.86	156.62	1,456.67	-264.46	114.33	288.11	0.00	0.00	0.00
1,600.00	23.86	156.62	1,548.13	-301.58	130.39	328.56	0.00	0.00	0.00
1,700.00	23.86	156.62	1,639.58	-338.71	146.44	369.01	0.00	0.00	0.00
1,800.00	23.86	156.62	1,731.04	-375.84	162.49	409.46	0.00	0.00	0.00
1,900.00	23.86	156.62	1,822.49	-412.96	178.54	449.91	0.00	0.00	0.00
2,000.00	23.86	156.62	1,913.95	-450.09	194.59	490.35	0.00	0.00	0.00
2,100.00	23.86	156.62	2,005.40	-487.22	210.64	530.80	0.00	0.00	0.00
2,200.00	23.86	156.62	2,096.86	-524.34	226.69	571.25	0.00	0.00	0.00
2,300.00	23.86	156.62	2,188.31	-561.47	242.74	611.70	0.00	0.00	0.00
2,400.00	23.86	156.62	2,279.77	-598.60	258.80	652.14	0.00	0.00	0.00
2,500.00	23.86	156.62	2,371.22	-635.72	274.85	692.59	0.00	0.00	0.00
2,600.00	23.86	156.62	2,462.68	-672.85	290.90	733.04	0.00	0.00	0.00
2,700.00	23.86	156.62	2,554.13	-709.98	306.95	773.49	0.00	0.00	0.00
2,800.00	23.86	156.62	2,645.58	-747.10	323.00	813.94	0.00	0.00	0.00
2,900.00	23.86	156.62	2,737.04	-784.23	339.05	854.38	0.00	0.00	0.00
3,000.00	23.86	156.62	2,828.49	-821.36	355.10	894.83	0.00	0.00	0.00
3,100.00	23.86	156.62	2,919.95	-858.48	371.15	935.28	0.00	0.00	0.00
3,200.00	23.86	156.62	3,011.40	-895.61	387.21	975.73	0.00	0.00	0.00
3,300.00	23.86	156.62	3,102.86	-932.74	403.26	1,016.18	0.00	0.00	0.00
PARKMAN TOP									
3,365.76	23.86	156.62	3,163.00	-957.15	413.81	1,042.77	0.00	0.00	0.00
3,400.00	23.86	156.62	3,194.31	-969.86	419.31	1,056.62	0.00	0.00	0.00
3,500.00	23.86	156.62	3,285.77	-1,006.99	435.36	1,097.07	0.00	0.00	0.00
3,600.00	23.86	156.62	3,377.22	-1,044.12	451.41	1,137.52	0.00	0.00	0.00
3,700.00	23.86	156.62	3,468.68	-1,081.24	467.46	1,177.97	0.00	0.00	0.00
3,800.00	23.86	156.62	3,560.13	-1,118.37	483.51	1,218.41	0.00	0.00	0.00
3,900.00	23.86	156.62	3,651.59	-1,155.50	499.56	1,258.86	0.00	0.00	0.00
4,000.00	23.86	156.62	3,743.04	-1,192.62	515.62	1,299.31	0.00	0.00	0.00
4,100.00	23.86	156.62	3,834.50	-1,229.75	531.67	1,339.76	0.00	0.00	0.00
4,200.00	23.86	156.62	3,925.95	-1,266.88	547.72	1,380.21	0.00	0.00	0.00
4,300.00	23.86	156.62	4,017.41	-1,304.00	563.77	1,420.65	0.00	0.00	0.00
4,400.00	23.86	156.62	4,108.86	-1,341.13	579.82	1,461.10	0.00	0.00	0.00
4,500.00	23.86	156.62	4,200.32	-1,378.26	595.87	1,501.55	0.00	0.00	0.00
4,600.00	23.86	156.62	4,291.77	-1,415.38	611.92	1,542.00	0.00	0.00	0.00
4,700.00	23.86	156.62	4,383.22	-1,452.51	627.97	1,582.45	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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 35-35		
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	23.86	156.62	4,474.68	-1,489.64	644.03	1,622.89	0.00	0.00	0.00
4,900.00	23.86	156.62	4,566.13	-1,526.76	660.08	1,663.34	0.00	0.00	0.00
5,000.00	23.86	156.62	4,657.59	-1,563.89	676.13	1,703.79	0.00	0.00	0.00
5,100.00	23.86	156.62	4,749.04	-1,601.02	692.18	1,744.24	0.00	0.00	0.00
SUSSEX TOP									
5,117.45	23.86	156.62	4,765.00	-1,607.49	694.98	1,751.29	0.00	0.00	0.00
5,200.00	23.86	156.62	4,840.50	-1,638.14	708.23	1,784.68	0.00	0.00	0.00
5,300.00	23.86	156.62	4,931.95	-1,675.27	724.28	1,825.13	0.00	0.00	0.00
5,400.00	23.86	156.62	5,023.41	-1,712.40	740.33	1,865.58	0.00	0.00	0.00
Start Drop -2.00									
5,470.91	23.86	156.62	5,088.25	-1,738.72	751.71	1,894.26	0.00	0.00	0.00
5,500.00	23.28	156.62	5,114.92	-1,749.40	756.33	1,905.89	2.00	-2.00	0.00
5,600.00	21.28	156.62	5,207.45	-1,784.19	771.37	1,943.80	2.00	-2.00	0.00
5,700.00	19.28	156.62	5,301.25	-1,816.00	785.12	1,978.45	2.00	-2.00	0.00
5,800.00	17.28	156.62	5,396.20	-1,844.78	797.57	2,009.81	2.00	-2.00	0.00
5,900.00	15.28	156.62	5,492.19	-1,870.51	808.69	2,037.84	2.00	-2.00	0.00
6,000.00	13.28	156.62	5,589.10	-1,893.14	818.48	2,062.50	2.00	-2.00	0.00
6,100.00	11.28	156.62	5,686.81	-1,912.66	826.91	2,083.76	2.00	-2.00	0.00
6,200.00	9.28	156.62	5,785.20	-1,929.03	833.99	2,101.60	2.00	-2.00	0.00
6,300.00	7.28	156.62	5,884.15	-1,942.24	839.70	2,115.99	2.00	-2.00	0.00
6,400.00	5.28	156.62	5,983.54	-1,952.28	844.04	2,126.92	2.00	-2.00	0.00
6,500.00	3.28	156.62	6,083.26	-1,959.12	847.00	2,134.38	2.00	-2.00	0.00
6,600.00	1.28	156.62	6,183.18	-1,962.77	848.58	2,138.35	2.00	-2.00	0.00
Start 2063.00 hold at 6663.83 MD									
6,663.83	0.00	0.00	6,247.00	-1,963.42	848.86	2,139.06	2.00	-2.00	-245.38
6,700.00	0.00	0.00	6,283.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
6,800.00	0.00	0.00	6,383.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
6,900.00	0.00	0.00	6,483.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,000.00	0.00	0.00	6,583.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,100.00	0.00	0.00	6,683.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,200.00	0.00	0.00	6,783.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,300.00	0.00	0.00	6,883.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,400.00	0.00	0.00	6,983.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,500.00	0.00	0.00	7,083.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,600.00	0.00	0.00	7,183.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,700.00	0.00	0.00	7,283.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
NIO A TOP									
7,763.83	0.00	0.00	7,347.00	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,800.00	0.00	0.00	7,383.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
7,900.00	0.00	0.00	7,483.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,000.00	0.00	0.00	7,583.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,100.00	0.00	0.00	7,683.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
CODELL TOP									
8,163.83	0.00	0.00	7,747.00	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,200.00	0.00	0.00	7,783.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,300.00	0.00	0.00	7,883.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,400.00	0.00	0.00	7,983.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,500.00	0.00	0.00	8,083.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,600.00	0.00	0.00	8,183.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
JSAND TOP									
8,600.83	0.00	0.00	8,184.00	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
8,700.00	0.00	0.00	8,283.17	-1,963.42	848.86	2,139.06	0.00	0.00	0.00
PBHL_DRY CREEK 35-35(50 FSL 1320 FWL)50' TGT RAD									

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 35-35		
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)
8,726.83	0.00	0.00	8,310.00	-1,963.42	848.86	2,139.06	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 3	0.00	0.00	8,310.00	-1,963.42	848.86	1,243,674.81	3,178,625.86	40° 0' 1.836 N	104° 51' 44.604 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 (°)
3,365.76	3,163.00	PARKMAN TOP			
5,117.45	4,765.00	SUSSEX TOP			
7,763.83	7,347.00	NIO A TOP			
8,163.83	7,747.00	CODELL TOP			
8,600.83	8,184.00	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
1,392.92	1,358.75	-224.70	97.15	Start 4077.98 hold at 1392.92 MD
5,470.91	5,088.25	-1,738.72	751.71	Start Drop -2.00
6,663.83	6,247.00	-1,963.42	848.86	Start 2063.00 hold at 6663.83 MD
8,726.83	8,310.00	-1,963.42	848.86	TD at 8726.83



US ROCKIES REGION PLANNING

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

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

Anticollision Report

28 October, 2009



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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	8,726.83	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
WELD_DRY CREEK 12-35 PAD						
P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #	200.00	200.00	47.62	46.98	74.342	CC, ES
P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #	800.00	783.01	100.66	96.93	27.005	SF
P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #	200.00	200.00	16.81	16.17	26.238	CC, ES
P_DRY CREEK 13-35 - P_DRY CREEK 13-35 - PLAN #	3,700.00	3,665.83	460.08	411.82	9.534	SF
P_DRY CREEK 14-35 - P_DRY CREEK 14-35 - PLAN #	200.00	200.00	16.81	16.17	26.238	CC, ES
P_DRY CREEK 14-35 - P_DRY CREEK 14-35 - PLAN #	8,726.83	8,711.27	896.81	810.65	10.409	SF
P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #	200.00	200.00	33.62	32.98	52.477	CC, ES
P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #	800.00	789.19	77.25	73.43	20.220	SF
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	200.00	181.00	78.84	73.28	14.179	CC
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	300.00	280.98	80.49	70.73	8.250	ES
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	700.00	678.47	120.77	94.58	4.612	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										
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	89.99	0.00	47.62	47.62								
100.00	100.00	100.00	100.00	0.10	0.10	89.99	0.00	47.62	47.62	47.43	0.19	249.263					
200.00	200.00	200.00	200.00	0.32	0.32	89.99	0.00	47.62	47.62	46.98	0.64	74.342	CC, ES				
300.00	299.98	298.33	298.31	0.52	0.53	-68.41	-0.03	49.31	48.67	47.62	1.05	46.275					
400.00	399.84	396.46	396.31	0.73	0.75	-73.31	-0.15	54.35	52.08	50.61	1.47	35.449					
500.00	499.45	494.18	493.67	0.98	0.99	-80.07	-0.34	62.71	58.49	56.56	1.94	30.228					
600.00	598.70	591.31	590.09	1.27	1.27	-87.19	-0.60	74.30	68.54	66.08	2.46	27.866					
700.00	697.47	687.64	685.29	1.60	1.59	-93.60	-0.93	89.01	82.57	79.51	3.05	27.034					
800.00	795.62	783.01	778.99	1.99	1.95	-98.84	-1.33	106.73	100.66	96.93	3.73	27.005	SF				
900.00	893.06	877.24	870.95	2.44	2.36	-102.91	-1.80	127.28	122.70	118.22	4.48	27.372					
1,000.00	989.64	970.18	960.94	2.95	2.81	-105.98	-2.32	150.50	148.55	143.23	5.32	27.913					
1,100.00	1,085.27	1,061.69	1,048.76	3.52	3.32	-108.27	-2.90	176.21	178.03	171.78	6.24	28.509					
1,200.00	1,179.82	1,151.65	1,134.25	4.16	3.86	-109.96	-3.54	204.20	210.98	203.73	7.25	29.102					
1,300.00	1,273.17	1,239.94	1,217.25	4.85	4.45	-111.18	-4.21	234.26	247.26	238.93	8.33	29.668					
1,392.92	1,358.75	1,320.41	1,292.06	5.56	5.04	-111.99	-4.88	263.88	283.84	274.43	9.41	30.164					
1,400.00	1,365.22	1,326.47	1,297.67	5.61	5.09	-112.10	-4.94	266.20	286.74	277.24	9.50	30.191					

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 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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				
1,500.00	1,456.67	1,411.58	1,375.78	6.41	5.75	-113.22	-5.70	299.96	328.57	317.83	10.73	30.611					
1,600.00	1,548.13	1,499.94	1,456.08	7.21	6.50	-113.85	-6.53	336.83	371.68	359.65	12.03	30.896					
1,700.00	1,639.58	1,590.06	1,537.93	8.01	7.27	-114.34	-7.39	374.55	414.90	401.55	13.35	31.071					
1,800.00	1,731.04	1,680.19	1,619.78	8.82	8.04	-114.75	-8.24	412.26	458.14	443.45	14.69	31.196					
1,900.00	1,822.49	1,770.32	1,701.63	9.63	8.82	-115.08	-9.09	449.98	501.40	485.37	16.03	31.281					
2,000.00	1,913.95	1,860.44	1,783.48	10.44	9.60	-115.36	-9.94	487.69	544.66	527.28	17.38	31.338					
2,100.00	2,005.40	1,950.57	1,865.33	11.25	10.39	-115.60	-10.80	525.40	587.94	569.20	18.74	31.381					
2,200.00	2,096.86	2,040.69	1,947.18	12.07	11.17	-115.81	-11.65	563.12	631.22	611.13	20.09	31.414					
2,300.00	2,188.31	2,130.82	2,029.04	12.88	11.96	-115.99	-12.50	600.83	674.51	653.05	21.45	31.440					
2,400.00	2,279.77	2,220.95	2,110.89	13.70	12.75	-116.15	-13.35	638.55	717.80	694.99	22.82	31.461					
2,500.00	2,371.22	2,311.07	2,192.74	14.52	13.54	-116.29	-14.21	676.26	761.10	736.92	24.18	31.479					
2,600.00	2,462.68	2,401.20	2,274.59	15.34	14.33	-116.41	-15.06	713.97	804.40	778.86	25.54	31.494					
2,700.00	2,554.13	2,491.32	2,356.44	16.16	15.12	-116.53	-15.91	751.69	847.70	820.80	26.91	31.506					
2,800.00	2,645.58	2,581.45	2,438.29	16.97	15.91	-116.63	-16.76	789.40	891.01	862.74	28.27	31.517					
2,900.00	2,737.04	2,671.58	2,520.14	17.79	16.71	-116.72	-17.62	827.12	934.32	904.68	29.64	31.527					
3,000.00	2,828.49	2,761.70	2,601.99	18.61	17.50	-116.81	-18.47	864.83	977.63	946.63	31.00	31.537					
3,100.00	2,919.95	2,851.83	2,683.84	19.43	18.30	-116.88	-19.32	902.54	1,020.94	988.57	32.36	31.545					
3,200.00	3,011.40	2,941.95	2,765.70	20.25	19.09	-116.95	-20.17	940.26	1,064.25	1,030.52	33.73	31.553					
3,300.00	3,102.86	3,032.08	2,847.55	21.07	19.88	-117.02	-21.03	977.97	1,107.56	1,072.47	35.09	31.561					
3,400.00	3,194.31	3,122.20	2,929.40	21.89	20.68	-117.08	-21.88	1,015.69	1,150.88	1,114.42	36.46	31.568					
3,500.00	3,285.77	3,212.33	3,011.25	22.71	21.47	-117.13	-22.73	1,053.40	1,194.19	1,156.37	37.82	31.575					
3,600.00	3,377.22	3,302.46	3,093.10	23.53	22.27	-117.19	-23.58	1,091.11	1,237.51	1,198.32	39.19	31.577					
3,700.00	3,468.68	3,392.58	3,174.95	24.36	23.06	-117.23	-24.44	1,128.83	1,280.83	1,240.27	40.56	31.578					
3,800.00	3,560.13	3,482.71	3,256.80	25.18	23.86	-117.28	-25.29	1,166.54	1,324.15	1,282.21	41.93	31.578					
3,900.00	3,651.59	3,572.83	3,338.65	26.00	24.66	-117.32	-26.14	1,204.26	1,367.46	1,324.16	43.30	31.579					
4,000.00	3,743.04	3,670.90	3,427.78	26.82	25.49	-117.37	-27.07	1,245.16	1,410.72	1,366.02	44.71	31.555					
4,100.00	3,834.50	3,795.74	3,542.76	27.64	26.34	-117.57	-28.16	1,293.73	1,452.46	1,406.34	46.12	31.491					
4,200.00	3,925.95	3,922.76	3,661.82	28.46	27.10	-117.95	-29.16	1,337.96	1,492.04	1,444.57	47.47	31.434					
4,300.00	4,017.41	4,051.52	3,784.38	29.28	27.77	-118.50	-30.05	1,377.37	1,529.44	1,480.69	48.75	31.373					
4,400.00	4,108.86	4,181.52	3,909.80	30.10	28.36	-119.21	-30.83	1,411.53	1,564.69	1,514.72	49.97	31.313					
4,500.00	4,200.32	4,312.24	4,037.35	30.93	28.87	-120.07	-31.47	1,440.11	1,597.85	1,546.74	51.11	31.265					
4,600.00	4,291.77	4,443.15	4,166.25	31.75	29.27	-121.08	-31.99	1,462.88	1,629.01	1,576.85	52.15	31.236					
4,700.00	4,383.22	4,573.69	4,295.69	32.57	29.59	-122.21	-32.37	1,479.69	1,658.28	1,605.17	53.10	31.227					
4,800.00	4,474.68	4,703.33	4,424.86	33.39	29.83	-123.46	-32.61	1,490.54	1,685.82	1,631.86	53.95	31.245					
4,900.00	4,566.13	4,831.55	4,552.98	34.21	29.97	-124.82	-32.73	1,495.51	1,711.80	1,657.11	54.69	31.299					
5,000.00	4,657.59	4,936.16	4,657.59	35.03	30.05	-125.99	-32.73	1,495.90	1,736.79	1,681.44	55.36	31.375					
5,100.00	4,749.04	5,027.62	4,749.04	35.86	30.11	-127.00	-32.73	1,495.90	1,762.23	1,706.23	56.00	31.469					
5,200.00	4,840.50	5,119.07	4,840.50	36.68	30.18	-127.98	-32.73	1,495.90	1,788.23	1,731.60	56.62	31.581					
5,300.00	4,931.95	5,210.53	4,931.95	37.50	30.25	-128.93	-32.73	1,495.90	1,814.75	1,757.52	57.23	31.710					
5,400.00	5,023.41	5,301.98	5,023.41	38.32	30.32	-129.86	-32.73	1,495.90	1,841.78	1,783.96	57.82	31.856					
5,470.91	5,088.25	5,366.83	5,088.25	38.90	30.37	-130.51	-32.73	1,495.90	1,861.23	1,803.01	58.22	31.968					
5,500.00	5,114.92	5,393.50	5,114.92	39.11	30.39	-130.89	-32.73	1,495.90	1,869.20	1,810.78	58.41	31.999					
5,600.00	5,207.45	5,486.03	5,207.45	39.68	30.47	-132.13	-32.73	1,495.90	1,895.40	1,836.43	58.97	32.142					
5,700.00	5,301.25	5,579.83	5,301.25	40.20	30.54	-133.24	-32.73	1,495.90	1,919.70	1,860.21	59.48	32.273					
5,800.00	5,396.20	5,674.78	5,396.20	40.69	30.62	-134.22	-32.73	1,495.90	1,941.95	1,882.00	59.95	32.391					
5,900.00	5,492.19	5,770.77	5,492.19	41.13	30.70	-135.09	-32.73	1,495.90	1,962.06	1,901.67	60.38	32.494					
6,000.00	5,589.10	5,867.67	5,589.10	41.52	30.78	-135.84	-32.73	1,495.90	1,979.90	1,919.13	60.77	32.580					
6,100.00	5,686.81	5,965.38	5,686.81	41.86	30.87	-136.47	-32.73	1,495.90	1,995.41	1,934.29	61.12	32.649					
6,200.00	5,785.20	6,063.77	5,785.20	42.16	30.95	-137.00	-32.73	1,495.90	2,008.50	1,947.08	61.42	32.700					
6,300.00	5,884.15	6,162.72	5,884.15	42.41	31.04	-137.42	-32.73	1,495.90	2,019.11	1,957.42	61.69	32.731					
6,400.00	5,983.54	6,262.12	5,983.54	42.61	31.13	-137.74	-32.73	1,495.90	2,027.21	1,965.29	61.92	32.742					
6,500.00	6,083.26	6,361.84	6,083.26	42.77	31.22	-137.96	-32.73	1,495.90	2,032.74	1,970.64	62.10	32.731					

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

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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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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						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	
6,600.00	6,183.18	6,461.75	6,183.18	42.87	31.31	-138.07	-32.73	1,495.90	2,035.70	1,973.44	62.26	32.699	
6,663.83	6,247.00	6,525.58	6,247.00	42.92	31.37	18.53	-32.73	1,495.90	2,036.22	1,973.89	62.34	32.664	
6,700.00	6,283.17	6,561.75	6,283.17	42.95	31.41	18.53	-32.73	1,495.90	2,036.22	1,973.82	62.40	32.631	
6,800.00	6,383.17	6,661.75	6,383.17	43.00	31.50	18.53	-32.73	1,495.90	2,036.22	1,973.65	62.58	32.539	
6,900.00	6,483.17	6,761.75	6,483.17	43.06	31.60	18.53	-32.73	1,495.90	2,036.22	1,973.47	62.76	32.446	
7,000.00	6,583.17	6,861.75	6,583.17	43.12	31.70	18.53	-32.73	1,495.90	2,036.22	1,973.29	62.94	32.353	
7,100.00	6,683.17	6,961.75	6,683.17	43.18	31.80	18.53	-32.73	1,495.90	2,036.22	1,973.10	63.12	32.258	
7,200.00	6,783.17	7,061.75	6,783.17	43.24	31.90	18.53	-32.73	1,495.90	2,036.22	1,972.92	63.31	32.163	
7,300.00	6,883.17	7,161.75	6,883.17	43.30	32.00	18.53	-32.73	1,495.90	2,036.22	1,972.73	63.50	32.067	
7,400.00	6,983.17	7,261.75	6,983.17	43.36	32.10	18.53	-32.73	1,495.90	2,036.22	1,972.53	63.69	31.971	
7,500.00	7,083.17	7,361.75	7,083.17	43.42	32.21	18.53	-32.73	1,495.90	2,036.22	1,972.34	63.88	31.874	
7,600.00	7,183.17	7,461.75	7,183.17	43.49	32.31	18.53	-32.73	1,495.90	2,036.22	1,972.14	64.08	31.776	
7,700.00	7,283.17	7,561.75	7,283.17	43.55	32.42	18.53	-32.73	1,495.90	2,036.22	1,971.94	64.28	31.677	
7,800.00	7,383.17	7,661.75	7,383.17	43.62	32.53	18.53	-32.73	1,495.90	2,036.22	1,971.74	64.48	31.578	
7,900.00	7,483.17	7,761.75	7,483.17	43.69	32.64	18.53	-32.73	1,495.90	2,036.22	1,971.54	64.69	31.478	
8,000.00	7,583.17	7,861.75	7,583.17	43.75	32.75	18.53	-32.73	1,495.90	2,036.22	1,971.33	64.89	31.378	
8,100.00	7,683.17	7,961.75	7,683.17	43.82	32.86	18.53	-32.73	1,495.90	2,036.22	1,971.12	65.10	31.277	
8,200.00	7,783.17	8,061.75	7,783.17	43.89	32.97	18.53	-32.73	1,495.90	2,036.22	1,970.91	65.32	31.175	
8,300.00	7,883.17	8,161.75	7,883.17	43.97	33.09	18.53	-32.73	1,495.90	2,036.22	1,970.69	65.53	31.073	
8,400.00	7,983.17	8,261.75	7,983.17	44.04	33.20	18.53	-32.73	1,495.90	2,036.22	1,970.48	65.75	30.971	
8,500.00	8,083.17	8,361.75	8,083.17	44.11	33.32	18.53	-32.73	1,495.90	2,036.22	1,970.26	65.97	30.868	
8,600.00	8,183.17	8,461.75	8,183.17	44.19	33.44	18.53	-32.73	1,495.90	2,036.22	1,970.04	66.19	30.765	
8,700.00	8,283.17	8,561.75	8,283.17	44.26	33.55	18.53	-32.73	1,495.90	2,036.22	1,969.81	66.41	30.661	
8,717.16	8,300.34	8,578.91	8,300.34	44.28	33.58	18.53	-32.73	1,495.90	2,036.22	1,969.78	66.45	30.644	
8,726.83	8,310.00	8,586.58	8,308.00	44.28	33.58	18.53	-32.73	1,495.90	2,036.23	1,969.76	66.47	30.635	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-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, ES	
300.00	299.98	300.02	300.00	0.52	0.52	112.89	-1.75	-16.75	17.44	16.40	1.04	16.709	
400.00	399.84	400.01	399.85	0.73	0.73	111.64	-6.98	-16.56	19.34	17.88	1.46	13.247	
500.00	499.45	499.95	499.40	0.98	0.97	110.01	-15.68	-16.25	22.52	20.57	1.95	11.554	
600.00	598.70	599.82	598.52	1.27	1.26	108.38	-27.84	-15.82	26.98	24.46	2.52	10.704	
700.00	697.47	699.58	697.06	1.60	1.60	106.91	-43.43	-15.27	32.73	29.54	3.19	10.268	
800.00	795.62	799.23	794.87	1.99	1.98	105.68	-62.41	-14.59	39.75	35.79	3.96	10.039	
900.00	893.06	898.73	891.83	2.44	2.42	104.66	-84.74	-13.80	48.05	43.20	4.85	9.916	
1,000.00	989.64	998.07	987.79	2.95	2.92	103.83	-110.38	-12.89	57.60	51.75	5.85	9.849	
1,100.00	1,085.27	1,097.22	1,082.62	3.52	3.48	103.13	-139.27	-11.87	68.38	61.41	6.97	9.811	
1,200.00	1,179.82	1,196.16	1,176.21	4.16	4.09	102.54	-171.35	-10.73	80.39	72.18	8.21	9.788	
1,300.00	1,273.17	1,294.88	1,268.42	4.85	4.77	102.03	-206.56	-9.48	93.61	84.03	9.58	9.773	
1,392.92	1,358.75	1,386.40	1,352.78	5.56	5.44	101.61	-242.02	-8.22	106.95	96.00	10.96	9.762	
1,400.00	1,365.22	1,393.36	1,359.15	5.61	5.50	101.60	-244.83	-8.12	108.01	96.94	11.06	9.762	
1,500.00	1,456.67	1,491.91	1,448.73	6.41	6.28	100.76	-285.88	-6.67	123.14	110.50	12.64	9.744	
1,600.00	1,548.13	1,590.72	1,538.35	7.21	7.07	99.91	-327.46	-5.19	138.37	124.14	14.23	9.721	
1,700.00	1,639.58	1,689.54	1,627.98	8.01	7.88	99.23	-369.04	-3.72	153.63	137.79	15.84	9.700	
1,800.00	1,731.04	1,788.35	1,717.61	8.82	8.68	98.67	-410.62	-2.24	168.90	151.45	17.45	9.680	
1,900.00	1,822.49	1,887.17	1,807.24	9.63	9.49	98.20	-452.20	-0.77	184.19	165.13	19.06	9.663	
2,000.00	1,913.95	1,985.98	1,896.86	10.44	10.30	97.81	-493.79	0.70	199.48	178.81	20.68	9.648	
2,100.00	2,005.40	2,084.80	1,986.49	11.25	11.11	97.47	-535.37	2.18	214.79	192.49	22.29	9.634	
2,200.00	2,096.86	2,183.61	2,076.12	12.07	11.93	97.17	-576.95	3.65	230.10	206.18	23.91	9.622	
2,300.00	2,188.31	2,282.43	2,165.75	12.88	12.74	96.92	-618.53	5.13	245.41	219.88	25.53	9.611	
2,400.00	2,279.77	2,381.24	2,255.37	13.70	13.56	96.69	-660.11	6.60	260.73	233.57	27.15	9.602	
2,500.00	2,371.22	2,480.06	2,345.00	14.52	14.37	96.49	-701.70	8.08	276.05	247.28	28.78	9.593	
2,600.00	2,462.68	2,578.87	2,434.63	15.34	15.19	96.31	-743.28	9.55	291.38	260.98	30.40	9.585	
2,700.00	2,554.13	2,677.69	2,524.26	16.16	16.01	96.15	-784.86	11.03	306.71	274.68	32.02	9.578	
2,800.00	2,645.58	2,776.50	2,613.89	16.97	16.82	96.00	-826.44	12.50	322.04	288.39	33.65	9.572	
2,900.00	2,737.04	2,875.31	2,703.51	17.79	17.64	95.87	-868.02	13.98	337.37	302.10	35.27	9.566	
3,000.00	2,828.49	2,974.13	2,793.14	18.61	18.46	95.74	-909.61	15.45	352.70	315.81	36.89	9.560	
3,100.00	2,919.95	3,072.94	2,882.77	19.43	19.28	95.63	-951.19	16.93	368.04	329.52	38.52	9.556	
3,200.00	3,011.40	3,171.76	2,972.40	20.25	20.10	95.53	-992.77	18.40	383.38	343.24	40.14	9.551	
3,300.00	3,102.86	3,270.57	3,062.02	21.07	20.92	95.44	-1,034.35	19.88	398.71	356.95	41.76	9.547	
3,400.00	3,194.31	3,369.39	3,151.65	21.89	21.74	95.35	-1,075.93	21.35	414.05	370.67	43.39	9.543	
3,500.00	3,285.77	3,468.20	3,241.28	22.71	22.56	95.27	-1,117.51	22.83	429.39	384.38	45.01	9.540	
3,600.00	3,377.22	3,567.02	3,330.91	23.53	23.38	95.19	-1,159.10	24.30	444.73	398.10	46.63	9.537	
3,700.00	3,468.68	3,665.83	3,420.53	24.36	24.20	95.12	-1,200.68	25.78	460.08	411.82	48.26	9.534 SF	
3,800.00	3,560.13	3,765.43	3,510.90	25.18	25.00	95.06	-1,242.53	27.26	475.40	425.54	49.86	9.535	
3,900.00	3,651.59	3,868.63	3,605.54	26.00	25.62	95.29	-1,283.64	28.72	490.14	438.83	51.31	9.553	
4,000.00	3,743.04	3,971.85	3,701.62	26.82	26.16	95.91	-1,321.33	30.05	504.03	451.33	52.71	9.563	
4,100.00	3,834.50	4,074.80	3,798.74	27.64	26.67	96.90	-1,355.44	31.26	517.18	463.10	54.08	9.563	
4,200.00	3,925.95	4,177.24	3,896.53	28.46	27.13	98.23	-1,385.90	32.34	529.76	474.35	55.41	9.561	
4,300.00	4,017.41	4,278.90	3,994.59	29.28	27.55	99.86	-1,412.66	33.29	541.97	485.31	56.66	9.565	
4,400.00	4,108.86	4,379.53	4,092.55	30.10	27.93	101.76	-1,435.71	34.11	554.08	496.26	57.83	9.582	
4,500.00	4,200.32	4,478.92	4,190.02	30.93	28.25	103.90	-1,455.08	34.80	566.40	507.53	58.87	9.621	
4,600.00	4,291.77	4,576.85	4,286.67	31.75	28.52	106.25	-1,470.86	35.36	579.25	519.48	59.77	9.691	
4,700.00	4,383.22	4,673.13	4,382.15	32.57	28.75	108.76	-1,483.14	35.79	592.97	532.47	60.51	9.800	
4,800.00	4,474.68	4,767.58	4,476.18	33.39	28.93	111.41	-1,492.06	36.11	607.92	546.86	61.06	9.956	
4,900.00	4,566.13	4,860.07	4,568.48	34.21	29.06	114.16	-1,497.79	36.31	624.44	563.01	61.43	10.165	
5,000.00	4,657.59	4,950.46	4,658.83	35.03	29.16	116.96	-1,500.52	36.41	642.85	581.24	61.61	10.434	

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 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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	4,749.04	5,040.68	4,749.04	35.86	29.23	119.81	-1,500.81	36.42	663.37	601.77	61.61	10.768	
5,200.00	4,840.50	5,132.13	4,840.50	36.68	29.28	122.57	-1,500.81	36.42	685.70	624.22	61.48	11.154	
5,300.00	4,931.95	5,223.59	4,931.95	37.50	29.34	125.17	-1,500.81	36.42	709.64	648.36	61.28	11.580	
5,400.00	5,023.41	5,315.04	5,023.41	38.32	29.40	127.61	-1,500.81	36.42	735.02	674.00	61.03	12.044	
5,470.91	5,088.25	5,379.89	5,088.25	38.90	29.44	129.25	-1,500.81	36.42	753.82	692.99	60.83	12.393	
5,500.00	5,114.92	5,406.55	5,114.92	39.11	29.46	130.02	-1,500.81	36.42	761.62	700.93	60.69	12.550	
5,600.00	5,207.45	5,499.09	5,207.45	39.68	29.52	132.45	-1,500.81	36.42	787.69	727.56	60.13	13.100	
5,700.00	5,301.25	5,592.88	5,301.25	40.20	29.59	134.56	-1,500.81	36.42	812.34	752.73	59.61	13.627	
5,800.00	5,396.20	5,687.83	5,396.20	40.69	29.65	136.38	-1,500.81	36.42	835.26	776.11	59.15	14.122	
5,900.00	5,492.19	5,783.82	5,492.19	41.13	29.72	137.94	-1,500.81	36.42	856.20	797.46	58.74	14.577	
6,000.00	5,589.10	5,880.73	5,589.10	41.52	29.79	139.26	-1,500.81	36.42	874.95	816.57	58.38	14.987	
6,100.00	5,686.81	5,978.44	5,686.81	41.86	29.87	140.35	-1,500.81	36.42	891.35	833.27	58.08	15.347	
6,200.00	5,785.20	6,076.83	5,785.20	42.16	29.94	141.24	-1,500.81	36.42	905.26	847.43	57.83	15.653	
6,300.00	5,884.15	6,175.78	5,884.15	42.41	30.02	141.95	-1,500.81	36.42	916.59	858.94	57.64	15.902	
6,400.00	5,983.54	6,275.18	5,983.54	42.61	30.10	142.47	-1,500.81	36.42	925.24	867.75	57.50	16.091	
6,500.00	6,083.26	6,374.89	6,083.26	42.77	30.18	142.82	-1,500.81	36.42	931.18	873.77	57.41	16.220	
6,600.00	6,183.18	6,474.81	6,183.18	42.87	30.26	143.01	-1,500.81	36.42	934.35	876.98	57.37	16.286	
6,663.83	6,247.00	6,538.63	6,247.00	42.92	30.31	-60.34	-1,500.81	36.42	934.92	877.53	57.38	16.293	
6,700.00	6,283.17	6,574.80	6,283.17	42.95	30.34	-60.34	-1,500.81	36.42	934.92	877.47	57.45	16.274	
6,800.00	6,383.17	6,674.80	6,383.17	43.00	30.43	-60.34	-1,500.81	36.42	934.92	877.30	57.62	16.226	
6,900.00	6,483.17	6,774.80	6,483.17	43.06	30.51	-60.34	-1,500.81	36.42	934.92	877.13	57.79	16.178	
7,000.00	6,583.17	6,874.80	6,583.17	43.12	30.60	-60.34	-1,500.81	36.42	934.92	876.95	57.97	16.128	
7,100.00	6,683.17	6,974.80	6,683.17	43.18	30.69	-60.34	-1,500.81	36.42	934.92	876.77	58.15	16.079	
7,200.00	6,783.17	7,074.80	6,783.17	43.24	30.78	-60.34	-1,500.81	36.42	934.92	876.59	58.33	16.029	
7,300.00	6,883.17	7,174.80	6,883.17	43.30	30.87	-60.34	-1,500.81	36.42	934.92	876.40	58.51	15.978	
7,400.00	6,983.17	7,274.80	6,983.17	43.36	30.97	-60.34	-1,500.81	36.42	934.92	876.22	58.70	15.927	
7,500.00	7,083.17	7,374.80	7,083.17	43.42	31.06	-60.34	-1,500.81	36.42	934.92	876.02	58.89	15.875	
7,600.00	7,183.17	7,474.80	7,183.17	43.49	31.16	-60.34	-1,500.81	36.42	934.92	875.83	59.08	15.823	
7,700.00	7,283.17	7,574.80	7,283.17	43.55	31.25	-60.34	-1,500.81	36.42	934.92	875.64	59.28	15.771	
7,800.00	7,383.17	7,674.80	7,383.17	43.62	31.35	-60.34	-1,500.81	36.42	934.92	875.44	59.48	15.718	
7,900.00	7,483.17	7,774.80	7,483.17	43.69	31.45	-60.34	-1,500.81	36.42	934.92	875.24	59.68	15.665	
8,000.00	7,583.17	7,874.80	7,583.17	43.75	31.55	-60.34	-1,500.81	36.42	934.92	875.03	59.89	15.612	
8,100.00	7,683.17	7,974.80	7,683.17	43.82	31.66	-60.34	-1,500.81	36.42	934.92	874.82	60.09	15.558	
8,200.00	7,783.17	8,074.80	7,783.17	43.89	31.76	-60.34	-1,500.81	36.42	934.92	874.61	60.30	15.504	
8,300.00	7,883.17	8,174.80	7,883.17	43.97	31.86	-60.34	-1,500.81	36.42	934.92	874.40	60.51	15.450	
8,301.38	7,884.55	8,176.19	7,884.55	43.97	31.87	-60.34	-1,500.81	36.42	934.92	874.40	60.52	15.449	
8,400.00	7,983.17	8,208.63	7,917.00	44.04	31.90	-60.34	-1,500.81	36.42	937.25	876.60	60.65	15.453	
8,500.00	8,083.17	8,208.63	7,917.00	44.11	31.90	-60.34	-1,500.81	36.42	949.57	888.82	60.75	15.631	
8,600.00	8,183.17	8,208.63	7,917.00	44.19	31.90	-60.34	-1,500.81	36.42	972.07	911.22	60.85	15.975	
8,700.00	8,283.17	8,208.63	7,917.00	44.26	31.90	-60.34	-1,500.81	36.42	1,004.07	943.11	60.95	16.473	
8,726.83	8,310.00	8,208.63	7,917.00	44.28	31.90	-60.34	-1,500.81	36.42	1,014.16	953.18	60.98	16.631	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	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	299.56	299.54	0.52	0.53	-68.03	-1.16	18.09	17.41	16.36	1.05	16.629	
400.00	399.84	399.09	398.93	0.73	0.74	-71.72	-4.65	21.93	19.26	17.80	1.46	13.160	
500.00	499.45	498.56	498.02	0.98	0.99	-76.47	-10.45	28.31	22.48	20.54	1.95	11.552	
600.00	598.70	597.93	596.66	1.27	1.27	-81.16	-18.55	37.23	27.17	24.66	2.51	10.829	
700.00	697.47	697.18	694.69	1.60	1.61	-85.18	-28.94	48.66	33.38	30.21	3.17	10.533	
800.00	795.62	796.28	791.98	1.99	1.99	-88.40	-41.58	62.57	41.10	37.16	3.94	10.440	
900.00	893.06	895.19	888.39	2.44	2.44	-90.89	-56.44	78.94	50.31	45.49	4.82	10.441	
1,000.00	989.64	993.89	983.77	2.95	2.94	-92.78	-73.50	97.71	60.99	55.17	5.82	10.480	
1,100.00	1,085.27	1,092.36	1,078.00	3.52	3.50	-94.21	-92.70	118.85	73.10	66.16	6.94	10.531	
1,200.00	1,179.82	1,190.57	1,170.95	4.16	4.13	-95.29	-114.01	142.31	86.62	78.44	8.19	10.581	
1,300.00	1,273.17	1,288.50	1,262.49	4.85	4.82	-96.10	-137.39	168.04	101.53	91.97	9.56	10.624	
1,392.92	1,358.75	1,379.22	1,346.20	5.56	5.52	-96.68	-160.90	193.92	116.59	105.65	10.94	10.656	
1,400.00	1,365.22	1,386.12	1,352.52	5.61	5.58	-96.73	-162.77	195.97	117.78	106.73	11.05	10.660	
1,500.00	1,456.67	1,483.97	1,441.53	6.41	6.39	-96.81	-190.08	226.04	135.05	122.42	12.63	10.689	
1,600.00	1,548.13	1,582.44	1,530.88	7.21	7.23	-96.66	-217.92	256.69	152.48	138.22	14.25	10.697	
1,700.00	1,639.58	1,680.91	1,620.22	8.01	8.08	-96.54	-245.76	287.33	169.90	154.02	15.88	10.697	
1,800.00	1,731.04	1,779.38	1,709.56	8.82	8.93	-96.45	-273.60	317.97	187.32	169.80	17.52	10.693	
1,900.00	1,822.49	1,877.85	1,798.91	9.63	9.78	-96.37	-301.44	348.62	204.75	185.59	19.16	10.686	
2,000.00	1,913.95	1,976.32	1,888.25	10.44	10.64	-96.30	-329.28	379.26	222.17	201.36	20.81	10.678	
2,100.00	2,005.40	2,074.79	1,977.59	11.25	11.50	-96.24	-357.12	409.91	239.60	217.14	22.46	10.670	
2,200.00	2,096.86	2,173.26	2,066.94	12.07	12.36	-96.19	-384.96	440.55	257.02	232.91	24.11	10.662	
2,300.00	2,188.31	2,271.73	2,156.28	12.88	13.22	-96.15	-412.80	471.20	274.45	248.69	25.76	10.654	
2,400.00	2,279.77	2,370.20	2,245.62	13.70	14.08	-96.11	-440.64	501.84	291.87	264.46	27.41	10.647	
2,500.00	2,371.22	2,468.67	2,334.96	14.52	14.95	-96.07	-468.48	532.49	309.30	280.23	29.07	10.640	
2,600.00	2,462.68	2,567.14	2,424.31	15.34	15.81	-96.04	-496.32	563.13	326.72	296.00	30.73	10.633	
2,700.00	2,554.13	2,665.61	2,513.65	16.16	16.68	-96.02	-524.16	593.78	344.15	311.76	32.38	10.627	
2,800.00	2,645.58	2,764.07	2,602.99	16.97	17.54	-95.99	-552.00	624.42	361.57	327.53	34.04	10.622	
2,900.00	2,737.04	2,862.54	2,692.34	17.79	18.41	-95.97	-579.83	655.07	379.00	343.30	35.70	10.617	
3,000.00	2,828.49	2,961.01	2,781.68	18.61	19.28	-95.95	-607.67	685.71	396.42	359.07	37.36	10.612	
3,100.00	2,919.95	3,059.48	2,871.02	19.43	20.14	-95.93	-635.51	716.35	413.85	374.84	39.01	10.608	
3,200.00	3,011.40	3,157.95	2,960.37	20.25	21.01	-95.91	-663.35	747.00	431.28	390.60	40.67	10.603	
3,300.00	3,102.86	3,256.42	3,049.71	21.07	21.88	-95.90	-691.19	777.64	448.70	406.37	42.33	10.600	
3,400.00	3,194.31	3,354.89	3,139.05	21.89	22.74	-95.88	-719.03	808.29	466.13	422.14	43.99	10.596	
3,500.00	3,285.77	3,453.36	3,228.40	22.71	23.61	-95.87	-746.87	838.93	483.55	437.90	45.65	10.593	
3,600.00	3,377.22	3,551.83	3,317.74	23.53	24.48	-95.86	-774.71	869.58	500.98	453.67	47.31	10.590	
3,700.00	3,468.68	3,650.30	3,407.08	24.36	25.35	-95.84	-802.55	900.22	518.41	469.44	48.97	10.587	
3,800.00	3,560.13	3,748.77	3,496.43	25.18	26.22	-95.83	-830.39	930.87	535.83	485.21	50.62	10.585	
3,900.00	3,651.59	3,847.24	3,585.77	26.00	27.08	-95.82	-858.23	961.51	553.26	500.98	52.28	10.582	
4,000.00	3,743.04	3,945.71	3,675.11	26.82	27.95	-95.81	-886.07	992.16	570.68	516.74	53.94	10.580	
4,100.00	3,834.50	4,044.18	3,764.45	27.64	28.82	-95.80	-913.91	1,022.80	588.11	532.51	55.60	10.578	
4,200.00	3,925.95	4,142.65	3,853.80	28.46	29.69	-95.79	-941.75	1,053.44	605.54	548.28	57.25	10.576	
4,300.00	4,017.41	4,241.12	3,943.14	29.28	30.56	-95.79	-969.59	1,084.09	622.96	564.05	58.91	10.575	
4,400.00	4,108.86	4,339.59	4,032.48	30.10	31.43	-95.78	-997.43	1,114.73	640.39	579.82	60.57	10.573	
4,500.00	4,200.32	4,438.06	4,121.83	30.93	32.30	-95.77	-1,025.27	1,145.38	657.81	595.59	62.22	10.572	
4,600.00	4,291.77	4,536.53	4,211.17	31.75	33.17	-95.76	-1,053.11	1,176.02	675.24	611.36	63.88	10.570	
4,700.00	4,383.22	4,635.00	4,300.51	32.57	34.03	-95.76	-1,080.95	1,206.67	692.67	627.13	65.54	10.569	
4,800.00	4,474.68	4,733.47	4,389.86	33.39	34.90	-95.75	-1,108.79	1,237.31	710.09	642.90	67.19	10.568	
4,900.00	4,566.13	4,831.94	4,479.20	34.21	35.77	-95.75	-1,136.63	1,267.96	727.52	658.67	68.85	10.567	
5,000.00	4,657.59	4,930.41	4,568.54	35.03	36.64	-95.74	-1,164.47	1,298.60	744.94	674.44	70.50	10.566	

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 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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	4,749.04	5,034.50	4,663.38	35.86	37.43	-95.81	-1,193.30	1,330.34	762.12	690.03	72.09	10.572	
5,200.00	4,840.50	5,141.15	4,762.04	36.68	38.09	-96.14	-1,220.52	1,360.31	778.31	704.74	73.57	10.580	
5,300.00	4,931.95	5,247.70	4,862.05	37.50	38.70	-96.73	-1,245.23	1,387.51	793.53	718.52	75.00	10.580	
5,400.00	5,023.41	5,353.87	4,962.98	38.32	39.24	-97.57	-1,267.35	1,411.85	807.87	731.48	76.39	10.576	
5,470.91	5,088.25	5,428.75	5,034.88	38.90	39.59	-98.31	-1,281.43	1,427.35	817.59	740.26	77.33	10.572	
5,500.00	5,114.92	5,459.38	5,064.44	39.11	39.72	-98.71	-1,286.83	1,433.29	821.46	743.77	77.69	10.574	
5,600.00	5,207.45	5,564.49	5,166.50	39.68	40.14	-100.05	-1,303.72	1,451.88	834.04	755.31	78.73	10.594	
5,700.00	5,301.25	5,669.32	5,269.13	40.20	40.50	-101.33	-1,318.04	1,467.65	845.48	765.83	79.65	10.615	
5,800.00	5,396.20	5,773.81	5,372.15	40.69	40.81	-102.57	-1,329.80	1,480.60	855.75	775.31	80.44	10.638	
5,900.00	5,492.19	5,877.95	5,475.38	41.13	41.05	-103.77	-1,339.00	1,490.72	864.84	783.73	81.11	10.663	
6,000.00	5,589.10	5,981.70	5,578.65	41.52	41.25	-104.93	-1,345.65	1,498.04	872.73	791.08	81.66	10.688	
6,100.00	5,686.81	6,085.02	5,681.78	41.86	41.38	-106.06	-1,349.77	1,502.57	879.42	797.34	82.08	10.714	
6,200.00	5,785.20	6,187.89	5,784.62	42.16	41.48	-107.15	-1,351.38	1,504.35	884.91	802.51	82.40	10.740	
6,300.00	5,884.15	6,287.42	5,884.15	42.41	41.54	-108.12	-1,351.41	1,504.38	889.31	806.69	82.62	10.763	
6,400.00	5,983.54	6,386.82	5,983.54	42.61	41.60	-108.85	-1,351.41	1,504.38	892.80	809.99	82.81	10.782	
6,500.00	6,083.26	6,486.54	6,083.26	42.77	41.66	-109.34	-1,351.41	1,504.38	895.25	812.28	82.96	10.791	
6,600.00	6,183.18	6,586.45	6,183.18	42.87	41.72	-109.61	-1,351.41	1,504.38	896.57	813.48	83.09	10.790	
6,663.83	6,247.00	6,650.27	6,247.00	42.92	41.76	46.97	-1,351.41	1,504.38	896.81	813.63	83.18	10.782	
6,700.00	6,283.17	6,686.45	6,283.17	42.95	41.79	46.97	-1,351.41	1,504.38	896.81	813.59	83.22	10.776	
6,800.00	6,383.17	6,786.45	6,383.17	43.00	41.85	46.97	-1,351.41	1,504.38	896.81	813.46	83.35	10.760	
6,900.00	6,483.17	6,886.45	6,483.17	43.06	41.92	46.97	-1,351.41	1,504.38	896.81	813.34	83.47	10.744	
7,000.00	6,583.17	6,986.45	6,583.17	43.12	41.98	46.97	-1,351.41	1,504.38	896.81	813.21	83.60	10.727	
7,100.00	6,683.17	7,086.45	6,683.17	43.18	42.05	46.97	-1,351.41	1,504.38	896.81	813.08	83.73	10.711	
7,200.00	6,783.17	7,186.45	6,783.17	43.24	42.12	46.97	-1,351.41	1,504.38	896.81	812.94	83.86	10.694	
7,300.00	6,883.17	7,286.45	6,883.17	43.30	42.19	46.97	-1,351.41	1,504.38	896.81	812.81	84.00	10.676	
7,400.00	6,983.17	7,386.45	6,983.17	43.36	42.26	46.97	-1,351.41	1,504.38	896.81	812.67	84.14	10.659	
7,500.00	7,083.17	7,486.45	7,083.17	43.42	42.33	46.97	-1,351.41	1,504.38	896.81	812.53	84.28	10.641	
7,600.00	7,183.17	7,586.45	7,183.17	43.49	42.40	46.97	-1,351.41	1,504.38	896.81	812.39	84.42	10.623	
7,700.00	7,283.17	7,686.45	7,283.17	43.55	42.48	46.97	-1,351.41	1,504.38	896.81	812.25	84.56	10.605	
7,800.00	7,383.17	7,786.45	7,383.17	43.62	42.55	46.97	-1,351.41	1,504.38	896.81	812.10	84.71	10.587	
7,900.00	7,483.17	7,886.45	7,483.17	43.69	42.63	46.97	-1,351.41	1,504.38	896.81	811.95	84.86	10.569	
8,000.00	7,583.17	7,986.45	7,583.17	43.75	42.71	46.97	-1,351.41	1,504.38	896.81	811.80	85.01	10.550	
8,100.00	7,683.17	8,086.45	7,683.17	43.82	42.79	46.97	-1,351.41	1,504.38	896.81	811.65	85.16	10.531	
8,200.00	7,783.17	8,186.45	7,783.17	43.89	42.86	46.97	-1,351.41	1,504.38	896.81	811.50	85.31	10.512	
8,300.00	7,883.17	8,286.45	7,883.17	43.97	42.94	46.97	-1,351.41	1,504.38	896.81	811.34	85.47	10.493	
8,400.00	7,983.17	8,386.45	7,983.17	44.04	43.03	46.97	-1,351.41	1,504.38	896.81	811.18	85.63	10.473	
8,500.00	8,083.17	8,486.45	8,083.17	44.11	43.11	46.97	-1,351.41	1,504.38	896.81	811.02	85.79	10.453	
8,600.00	8,183.17	8,586.45	8,183.17	44.19	43.19	46.97	-1,351.41	1,504.38	896.81	810.86	85.95	10.434	
8,700.00	8,283.17	8,686.45	8,283.17	44.26	43.28	46.97	-1,351.41	1,504.38	896.81	810.69	86.12	10.414	
8,717.16	8,300.34	8,703.61	8,300.34	44.28	43.29	46.97	-1,351.41	1,504.38	896.81	810.66	86.15	10.410	
8,726.83	8,310.00	8,711.27	8,308.00	44.28	43.30	46.97	-1,351.41	1,504.38	896.81	810.65	86.16	10.409 SF	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	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	298.88	298.86	0.52	0.53	-68.33	-0.54	35.24	34.58	33.53	1.05	32.944	
400.00	399.84	397.64	397.48	0.73	0.75	-72.94	-2.14	40.09	37.63	36.17	1.47	25.668	
500.00	499.45	496.16	495.63	0.98	0.99	-79.07	-4.80	48.14	43.17	41.23	1.94	22.270	
600.00	598.70	594.34	593.09	1.27	1.27	-85.29	-8.49	59.35	51.53	49.05	2.48	20.783	
700.00	697.47	692.05	689.63	1.60	1.60	-90.72	-13.21	73.65	62.89	59.78	3.10	20.262	
800.00	795.62	789.19	785.04	1.99	1.97	-95.07	-18.92	90.95	77.25	73.43	3.82	20.220 SF	
900.00	893.06	885.66	879.13	2.44	2.40	-98.42	-25.59	111.17	94.57	89.93	4.64	20.388	
1,000.00	989.64	981.37	971.72	2.95	2.88	-100.95	-33.18	134.18	114.74	109.18	5.56	20.644	
1,100.00	1,085.27	1,076.22	1,062.62	3.52	3.41	-102.83	-41.65	159.88	137.68	131.10	6.58	20.922	
1,200.00	1,179.82	1,170.13	1,151.70	4.16	4.00	-104.21	-50.97	188.13	163.30	155.59	7.71	21.193	
1,300.00	1,273.17	1,263.04	1,238.81	4.85	4.64	-105.23	-61.08	218.78	191.51	182.58	8.93	21.445	
1,392.92	1,358.75	1,348.40	1,317.89	5.56	5.28	-105.90	-71.15	249.30	219.99	209.84	10.16	21.659	
1,400.00	1,365.22	1,354.87	1,323.84	5.61	5.33	-105.99	-71.94	251.70	222.25	211.99	10.26	21.671	
1,500.00	1,456.67	1,447.79	1,408.89	6.41	6.08	-106.82	-83.67	287.25	254.69	243.01	11.68	21.815	
1,600.00	1,548.13	1,542.28	1,495.24	7.21	6.86	-107.42	-95.68	323.67	287.32	274.18	13.13	21.876	
1,700.00	1,639.58	1,636.77	1,581.59	8.01	7.65	-107.89	-107.70	360.10	319.97	305.37	14.60	21.910	
1,800.00	1,731.04	1,731.25	1,667.94	8.82	8.45	-108.28	-119.72	396.53	352.64	336.56	16.08	21.928	
1,900.00	1,822.49	1,825.74	1,754.30	9.63	9.25	-108.60	-131.73	432.96	385.32	367.75	17.57	21.936	
2,000.00	1,913.95	1,920.23	1,840.65	10.44	10.05	-108.87	-143.75	469.39	418.01	398.95	19.05	21.939	
2,100.00	2,005.40	2,014.72	1,927.00	11.25	10.85	-109.10	-155.77	505.82	450.70	430.16	20.54	21.939	
2,200.00	2,096.86	2,109.21	2,013.36	12.07	11.65	-109.30	-167.78	542.25	483.40	461.37	22.04	21.936	
2,300.00	2,188.31	2,203.70	2,099.71	12.88	12.46	-109.48	-179.80	578.67	516.11	492.58	23.53	21.933	
2,400.00	2,279.77	2,298.19	2,186.06	13.70	13.27	-109.63	-191.82	615.10	548.82	523.79	25.03	21.929	
2,500.00	2,371.22	2,392.68	2,272.41	14.52	14.07	-109.77	-203.83	651.53	581.53	555.01	26.52	21.924	
2,600.00	2,462.68	2,487.17	2,358.77	15.34	14.88	-109.89	-215.85	687.96	614.25	586.23	28.02	21.920	
2,700.00	2,554.13	2,581.66	2,445.12	16.16	15.69	-110.00	-227.87	724.39	646.97	617.45	29.52	21.916	
2,800.00	2,645.58	2,676.15	2,531.47	16.97	16.50	-110.10	-239.88	760.82	679.69	648.67	31.02	21.912	
2,900.00	2,737.04	2,770.64	2,617.82	17.79	17.31	-110.19	-251.90	797.24	712.41	679.89	32.52	21.909	
3,000.00	2,828.49	2,865.13	2,704.18	18.61	18.12	-110.27	-263.92	833.67	745.13	711.12	34.02	21.906	
3,100.00	2,919.95	2,959.61	2,790.53	19.43	18.93	-110.35	-275.93	870.10	777.86	742.34	35.51	21.903	
3,200.00	3,011.40	3,054.10	2,876.88	20.25	19.74	-110.42	-287.95	906.53	810.58	773.57	37.01	21.900	
3,300.00	3,102.86	3,148.59	2,963.24	21.07	20.55	-110.48	-299.97	942.96	843.31	804.80	38.51	21.898	
3,400.00	3,194.31	3,243.08	3,049.59	21.89	21.36	-110.54	-311.98	979.39	876.04	836.03	40.01	21.896	
3,500.00	3,285.77	3,337.57	3,135.94	22.71	22.18	-110.60	-324.00	1,015.82	908.77	867.26	41.51	21.895	
3,600.00	3,377.22	3,432.06	3,222.29	23.53	22.99	-110.65	-336.01	1,052.24	941.49	898.49	43.00	21.894	
3,700.00	3,468.68	3,526.55	3,308.65	24.36	23.80	-110.69	-348.03	1,088.67	974.22	929.72	44.50	21.893	
3,800.00	3,560.13	3,621.04	3,395.00	25.18	24.61	-110.74	-360.05	1,125.10	1,006.95	960.96	46.00	21.892	
3,900.00	3,651.59	3,715.53	3,481.35	26.00	25.42	-110.78	-372.06	1,161.53	1,039.68	992.19	47.49	21.892	
4,000.00	3,743.04	3,810.02	3,567.70	26.82	26.24	-110.82	-384.08	1,197.96	1,072.42	1,023.43	48.99	21.892	
4,100.00	3,834.50	3,904.51	3,654.06	27.64	27.05	-110.86	-396.10	1,234.39	1,105.15	1,054.66	50.48	21.892	
4,200.00	3,925.95	3,999.00	3,740.41	28.46	27.86	-110.89	-408.11	1,270.81	1,137.88	1,085.90	51.98	21.892	
4,300.00	4,017.41	4,093.49	3,826.76	29.28	28.67	-110.92	-420.13	1,307.24	1,170.61	1,117.14	53.47	21.893	
4,400.00	4,108.86	4,187.98	3,913.11	30.10	29.49	-110.96	-432.15	1,343.67	1,203.34	1,148.38	54.96	21.893	
4,500.00	4,200.32	4,282.46	3,999.47	30.93	30.30	-110.98	-444.16	1,380.10	1,236.08	1,179.62	56.46	21.894	
4,600.00	4,291.77	4,376.95	4,085.82	31.75	31.11	-111.01	-456.18	1,416.53	1,268.81	1,210.86	57.95	21.895	
4,700.00	4,383.22	4,471.44	4,172.17	32.57	31.93	-111.04	-468.20	1,452.96	1,301.54	1,242.10	59.44	21.897	
4,800.00	4,474.68	4,565.93	4,258.53	33.39	32.74	-111.06	-480.21	1,489.39	1,334.28	1,273.34	60.93	21.898	
4,900.00	4,566.13	4,660.42	4,344.88	34.21	33.55	-111.09	-492.23	1,525.81	1,367.01	1,304.59	62.42	21.900	
5,000.00	4,657.59	4,754.91	4,431.23	35.03	34.37	-111.11	-504.25	1,562.24	1,399.74	1,335.83	63.91	21.901	

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 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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
5,100.00	4,749.04	4,849.40	4,517.58	35.86	35.18	-111.13	-516.26	1,598.67	1,432.48	1,367.08	65.40	21.903	
5,200.00	4,840.50	4,943.89	4,603.94	36.68	35.99	-111.15	-528.28	1,635.10	1,465.21	1,398.32	66.89	21.905	
5,300.00	4,931.95	5,038.38	4,690.29	37.50	36.81	-111.17	-540.30	1,671.53	1,497.95	1,429.57	68.38	21.907	
5,400.00	5,023.41	5,132.87	4,776.64	38.32	37.62	-111.19	-552.31	1,707.96	1,530.68	1,460.82	69.86	21.910	
5,470.91	5,088.25	5,199.87	4,837.87	38.90	38.20	-111.21	-560.83	1,733.79	1,553.89	1,482.97	70.92	21.911	
5,500.00	5,114.92	5,227.37	4,863.01	39.11	38.43	-111.39	-564.33	1,744.39	1,563.36	1,491.99	71.37	21.904	
5,600.00	5,207.45	5,322.16	4,949.64	39.68	39.25	-111.93	-576.38	1,780.94	1,595.14	1,522.33	72.82	21.906	
5,700.00	5,301.25	5,417.23	5,036.52	40.20	40.07	-112.33	-588.47	1,817.59	1,625.69	1,551.47	74.22	21.902	
5,800.00	5,396.20	5,512.46	5,123.55	40.69	40.89	-112.59	-600.59	1,854.30	1,655.01	1,579.42	75.59	21.895	
5,900.00	5,492.19	5,620.89	5,222.85	41.13	41.74	-112.68	-614.23	1,895.66	1,682.94	1,606.01	76.93	21.876	
6,000.00	5,589.10	5,748.32	5,341.33	41.52	42.53	-112.66	-628.92	1,940.18	1,708.18	1,630.03	78.16	21.856	
6,100.00	5,686.81	5,878.04	5,463.95	41.86	43.24	-112.62	-642.16	1,980.33	1,730.37	1,651.13	79.25	21.835	
6,200.00	5,785.20	6,009.84	5,590.38	42.16	43.87	-112.56	-653.82	2,015.67	1,749.43	1,669.23	80.20	21.814	
6,300.00	5,884.15	6,143.49	5,720.19	42.41	44.41	-112.49	-663.77	2,045.84	1,765.26	1,684.27	80.99	21.795	
6,400.00	5,983.54	6,278.74	5,852.91	42.61	44.85	-112.41	-671.89	2,070.47	1,777.80	1,696.16	81.65	21.775	
6,500.00	6,083.26	6,415.28	5,987.99	42.77	45.21	-112.30	-678.10	2,089.29	1,787.00	1,704.85	82.15	21.753	
6,600.00	6,183.18	6,552.80	6,124.85	42.87	45.46	-112.19	-682.30	2,102.04	1,792.80	1,710.30	82.50	21.731	
6,663.83	6,247.00	6,640.95	6,212.84	42.92	45.58	44.52	-683.92	2,106.92	1,794.72	1,712.06	82.66	21.712	
6,700.00	6,283.17	6,690.99	6,262.85	42.95	45.63	44.56	-684.45	2,108.55	1,795.27	1,712.54	82.73	21.701	
6,800.00	6,383.17	6,811.32	6,383.17	43.00	45.71	44.59	-684.75	2,109.44	1,795.57	1,712.69	82.87	21.666	
6,900.00	6,483.17	6,911.32	6,483.17	43.06	45.78	44.59	-684.75	2,109.44	1,795.57	1,712.56	83.00	21.633	
7,000.00	6,583.17	7,011.32	6,583.17	43.12	45.84	44.59	-684.75	2,109.44	1,795.57	1,712.43	83.13	21.599	
7,100.00	6,683.17	7,111.32	6,683.17	43.18	45.91	44.59	-684.75	2,109.44	1,795.57	1,712.30	83.27	21.564	
7,200.00	6,783.17	7,211.32	6,783.17	43.24	45.98	44.59	-684.75	2,109.44	1,795.57	1,712.16	83.40	21.529	
7,300.00	6,883.17	7,311.32	6,883.17	43.30	46.05	44.59	-684.75	2,109.44	1,795.57	1,712.03	83.54	21.493	
7,400.00	6,983.17	7,411.32	6,983.17	43.36	46.11	44.59	-684.75	2,109.44	1,795.57	1,711.89	83.68	21.457	
7,500.00	7,083.17	7,511.32	7,083.17	43.42	46.19	44.59	-684.75	2,109.44	1,795.57	1,711.74	83.82	21.421	
7,600.00	7,183.17	7,611.32	7,183.17	43.49	46.26	44.59	-684.75	2,109.44	1,795.57	1,711.60	83.97	21.384	
7,700.00	7,283.17	7,711.32	7,283.17	43.55	46.33	44.59	-684.75	2,109.44	1,795.57	1,711.45	84.11	21.347	
7,800.00	7,383.17	7,811.32	7,383.17	43.62	46.40	44.59	-684.75	2,109.44	1,795.57	1,711.30	84.26	21.309	
7,900.00	7,483.17	7,911.32	7,483.17	43.69	46.48	44.59	-684.75	2,109.44	1,795.57	1,711.15	84.41	21.271	
8,000.00	7,583.17	8,011.32	7,583.17	43.75	46.55	44.59	-684.75	2,109.44	1,795.57	1,711.00	84.57	21.233	
8,100.00	7,683.17	8,111.32	7,683.17	43.82	46.63	44.59	-684.75	2,109.44	1,795.57	1,710.85	84.72	21.194	
8,200.00	7,783.17	8,211.32	7,783.17	43.89	46.70	44.59	-684.75	2,109.44	1,795.57	1,710.69	84.88	21.154	
8,300.00	7,883.17	8,311.32	7,883.17	43.97	46.78	44.59	-684.75	2,109.44	1,795.57	1,710.53	85.04	21.115	
8,400.00	7,983.17	8,411.32	7,983.17	44.04	46.86	44.59	-684.75	2,109.44	1,795.57	1,710.37	85.20	21.075	
8,500.00	8,083.17	8,511.32	8,083.17	44.11	46.94	44.59	-684.75	2,109.44	1,795.57	1,710.20	85.36	21.034	
8,600.00	8,183.17	8,611.32	8,183.17	44.19	47.02	44.59	-684.75	2,109.44	1,795.57	1,710.04	85.53	20.994	
8,700.00	8,283.17	8,711.32	8,283.17	44.26	47.10	44.59	-684.75	2,109.44	1,795.57	1,709.87	85.70	20.953	
8,717.16	8,300.34	8,728.49	8,300.34	44.28	47.12	44.59	-684.75	2,109.44	1,795.57	1,709.84	85.73	20.945	
8,726.83	8,310.00	8,736.15	8,308.00	44.28	47.13	44.59	-684.75	2,109.44	1,795.57	1,709.83	85.74	20.942	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-42.74	57.91	-53.50	81.10				
100.00	100.00	81.00	81.00	0.10	1.62	-42.74	57.91	-53.50	78.84	77.13	1.72	45.957	
200.00	200.00	181.00	181.00	0.32	5.24	-42.74	57.91	-53.50	78.84	73.28	5.56	14.179 CC	
300.00	299.98	280.98	280.98	0.52	9.24	161.04	57.91	-53.50	80.49	70.73	9.76	8.250 ES	
400.00	399.84	380.84	380.84	0.73	13.23	162.15	57.91	-53.50	85.46	71.53	13.93	6.136	
500.00	499.45	480.45	480.45	0.98	17.22	163.74	57.91	-53.50	93.79	75.72	18.07	5.190	
600.00	598.70	579.70	579.70	1.27	21.19	165.53	57.91	-53.50	105.55	83.39	22.16	4.762	
700.00	697.47	678.47	678.47	1.60	25.14	167.32	57.91	-53.50	120.77	94.58	26.18	4.612 SF	
800.00	795.62	776.62	776.62	1.99	29.06	168.96	57.91	-53.50	139.46	109.35	30.11	4.631	
900.00	893.06	874.06	874.06	2.44	32.96	170.41	57.91	-53.50	161.61	127.68	33.93	4.763	
1,000.00	989.64	970.64	970.64	2.95	36.83	171.66	57.91	-53.50	187.19	149.58	37.62	4.976	
1,100.00	1,085.27	1,066.27	1,066.27	3.52	40.65	172.70	57.91	-53.50	216.18	175.02	41.16	5.252	
1,200.00	1,179.82	1,160.82	1,160.82	4.16	44.43	173.58	57.91	-53.50	248.53	203.98	44.55	5.579	
1,300.00	1,273.17	1,254.17	1,254.17	4.85	48.17	174.31	57.91	-53.50	284.19	236.43	47.76	5.950	
1,392.92	1,358.75	1,339.75	1,339.75	5.56	51.59	174.88	57.91	-53.50	320.26	269.67	50.58	6.331	
1,400.00	1,365.22	1,346.22	1,346.22	5.61	51.85	174.93	57.91	-53.50	323.11	272.27	50.84	6.355	
1,500.00	1,456.67	1,437.67	1,437.67	6.41	55.51	175.49	57.91	-53.50	363.44	308.91	54.52	6.666	
1,600.00	1,548.13	1,529.13	1,529.13	7.21	59.17	175.94	57.91	-53.50	403.79	345.58	58.21	6.937	
1,700.00	1,639.58	1,620.58	1,620.58	8.01	62.82	176.31	57.91	-53.50	444.16	382.26	61.90	7.175	
1,800.00	1,731.04	1,712.04	1,712.04	8.82	66.48	176.62	57.91	-53.50	484.55	418.95	65.59	7.387	
1,900.00	1,822.49	1,803.49	1,803.49	9.63	70.14	176.88	57.91	-53.50	524.94	455.65	69.29	7.576	
2,000.00	1,913.95	1,894.95	1,894.95	10.44	73.80	177.10	57.91	-53.50	565.34	492.36	72.99	7.746	
2,100.00	2,005.40	1,986.40	1,986.40	11.25	77.46	177.30	57.91	-53.50	605.75	529.06	76.69	7.899	
2,200.00	2,096.86	2,077.86	2,077.86	12.07	81.11	177.47	57.91	-53.50	646.16	565.78	80.39	8.038	
2,300.00	2,188.31	2,169.31	2,169.31	12.88	84.77	177.62	57.91	-53.50	686.58	602.49	84.09	8.165	
2,400.00	2,279.77	2,260.77	2,260.77	13.70	88.43	177.75	57.91	-53.50	727.00	639.21	87.79	8.281	
2,500.00	2,371.22	2,352.22	2,352.22	14.52	92.09	177.87	57.91	-53.50	767.42	675.93	91.49	8.388	
2,600.00	2,462.68	2,443.68	2,443.68	15.34	95.75	177.97	57.91	-53.50	807.85	712.65	95.20	8.486	
2,700.00	2,554.13	2,535.13	2,535.13	16.16	99.41	178.07	57.91	-53.50	848.28	749.37	98.90	8.577	
2,800.00	2,645.58	2,626.58	2,626.58	16.97	103.06	178.16	57.91	-53.50	888.71	786.10	102.61	8.661	
2,900.00	2,737.04	2,718.04	2,718.04	17.79	106.72	178.24	57.91	-53.50	929.14	822.82	106.31	8.740	
3,000.00	2,828.49	2,809.49	2,809.49	18.61	110.38	178.31	57.91	-53.50	969.57	859.55	110.02	8.813	
3,100.00	2,919.95	2,900.95	2,900.95	19.43	114.04	178.38	57.91	-53.50	1,010.00	896.28	113.73	8.881	
3,200.00	3,011.40	2,992.40	2,992.40	20.25	117.70	178.44	57.91	-53.50	1,050.44	933.01	117.43	8.945	
3,300.00	3,102.86	3,083.86	3,083.86	21.07	121.35	178.50	57.91	-53.50	1,090.87	969.73	121.14	9.005	
3,400.00	3,194.31	3,175.31	3,175.31	21.89	125.01	178.55	57.91	-53.50	1,131.31	1,006.46	124.85	9.062	
3,500.00	3,285.77	3,266.77	3,266.77	22.71	128.67	178.60	57.91	-53.50	1,171.75	1,043.19	128.55	9.115	
3,600.00	3,377.22	3,358.22	3,358.22	23.53	132.33	178.65	57.91	-53.50	1,212.19	1,079.93	132.26	9.165	
3,700.00	3,468.68	3,449.68	3,449.68	24.36	135.99	178.69	57.91	-53.50	1,252.62	1,116.66	135.97	9.213	
3,800.00	3,560.13	3,541.13	3,541.13	25.18	139.65	178.73	57.91	-53.50	1,293.06	1,153.39	139.68	9.258	
3,900.00	3,651.59	3,632.59	3,632.59	26.00	143.30	178.77	57.91	-53.50	1,333.50	1,190.12	143.38	9.300	
4,000.00	3,743.04	3,724.04	3,724.04	26.82	146.96	178.81	57.91	-53.50	1,373.94	1,226.85	147.09	9.341	
4,100.00	3,834.50	3,815.50	3,815.50	27.64	150.62	178.84	57.91	-53.50	1,414.38	1,263.58	150.80	9.379	
4,200.00	3,925.95	3,906.95	3,906.95	28.46	154.28	178.87	57.91	-53.50	1,454.83	1,300.32	154.51	9.416	
4,300.00	4,017.41	3,998.41	3,998.41	29.28	157.94	178.91	57.91	-53.50	1,495.27	1,337.05	158.22	9.451	
4,400.00	4,108.86	4,089.86	4,089.86	30.10	161.59	178.93	57.91	-53.50	1,535.71	1,373.78	161.92	9.484	
4,500.00	4,200.32	4,181.32	4,181.32	30.93	165.25	178.96	57.91	-53.50	1,576.15	1,410.52	165.63	9.516	
4,600.00	4,291.77	4,272.77	4,272.77	31.75	168.91	178.99	57.91	-53.50	1,616.59	1,447.25	169.34	9.546	
4,700.00	4,383.22	4,364.22	4,364.22	32.57	172.57	179.01	57.91	-53.50	1,657.04	1,483.99	173.05	9.575	
4,800.00	4,474.68	4,455.68	4,455.68	33.39	176.23	179.04	57.91	-53.50	1,697.48	1,520.72	176.76	9.603	
4,900.00	4,566.13	4,547.13	4,547.13	34.21	179.89	179.06	57.91	-53.50	1,737.92	1,557.45	180.47	9.630	
5,000.00	4,657.59	4,638.59	4,638.59	35.03	183.54	179.08	57.91	-53.50	1,778.37	1,594.19	184.18	9.656	

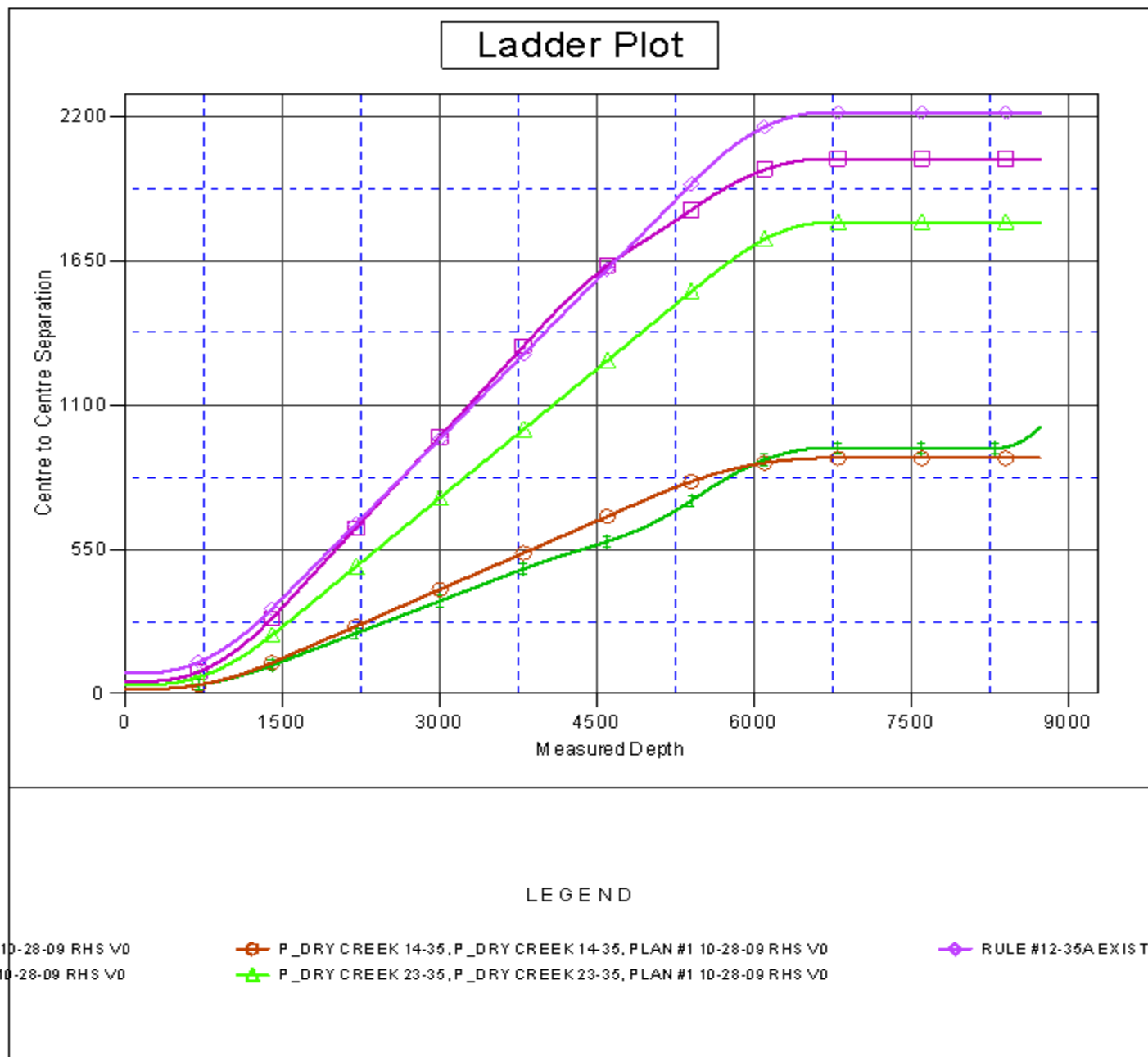
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 35-35
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 35-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 35-35	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	4,749.04	4,730.04	4,730.04	35.86	187.20	179.10	57.91	-53.50	1,818.81	1,630.92	187.89	9.680	
5,200.00	4,840.50	4,821.50	4,821.50	36.68	190.86	179.12	57.91	-53.50	1,859.25	1,667.66	191.60	9.704	
5,300.00	4,931.95	4,912.95	4,912.95	37.50	194.52	179.14	57.91	-53.50	1,899.70	1,704.39	195.30	9.727	
5,400.00	5,023.41	5,004.41	5,004.41	38.32	198.18	179.16	57.91	-53.50	1,940.14	1,741.13	199.01	9.749	
5,470.91	5,088.25	5,069.25	5,069.25	38.90	200.77	179.17	57.91	-53.50	1,968.82	1,767.17	201.64	9.764	
5,500.00	5,114.92	5,095.92	5,095.92	39.11	201.84	179.18	57.91	-53.50	1,980.45	1,776.94	203.51	9.732	
5,600.00	5,207.45	5,188.45	5,188.45	39.68	205.54	179.20	57.91	-53.50	2,018.35	1,808.44	209.91	9.615	
5,700.00	5,301.25	5,282.25	5,282.25	40.20	209.29	179.23	57.91	-53.50	2,053.00	1,836.78	216.22	9.495	
5,800.00	5,396.20	5,377.20	5,377.20	40.69	213.09	179.25	57.91	-53.50	2,084.36	1,861.98	222.38	9.373	
5,900.00	5,492.19	5,473.19	5,473.19	41.13	216.93	179.27	57.91	-53.50	2,112.38	1,884.01	228.37	9.250	
6,000.00	5,589.10	5,570.10	5,570.10	41.52	220.80	179.28	57.91	-53.50	2,137.04	1,902.87	234.18	9.126	
6,100.00	5,686.81	5,667.81	5,667.81	41.86	224.71	179.29	57.91	-53.50	2,158.30	1,918.53	239.77	9.002	
6,200.00	5,785.20	5,766.20	5,766.20	42.16	228.65	179.30	57.91	-53.50	2,176.14	1,931.00	245.13	8.877	
6,300.00	5,884.15	5,865.15	5,865.15	42.41	232.61	179.31	57.91	-53.50	2,190.53	1,940.28	250.25	8.753	
6,400.00	5,983.54	5,964.54	5,964.54	42.61	236.58	179.32	57.91	-53.50	2,201.46	1,946.37	255.09	8.630	
6,500.00	6,083.26	6,064.26	6,064.26	42.77	240.57	179.32	57.91	-53.50	2,208.92	1,949.27	259.65	8.507	
6,600.00	6,183.18	6,164.18	6,164.18	42.87	244.57	179.32	57.91	-53.50	2,212.89	1,948.99	263.90	8.385	
6,663.83	6,247.00	6,228.00	6,228.00	42.92	247.12	-24.06	57.91	-53.50	2,213.60	1,947.16	266.44	8.308	
6,700.00	6,283.17	6,264.17	6,264.17	42.95	248.57	-24.06	57.91	-53.50	2,213.60	1,945.67	267.94	8.262	
6,800.00	6,383.17	6,364.17	6,364.17	43.00	252.57	-24.06	57.91	-53.50	2,213.60	1,941.54	272.06	8.136	
6,900.00	6,483.17	6,464.17	6,464.17	43.06	256.57	-24.06	57.91	-53.50	2,213.60	1,937.42	276.18	8.015	
7,000.00	6,583.17	6,564.17	6,564.17	43.12	260.57	-24.06	57.91	-53.50	2,213.60	1,933.29	280.31	7.897	
7,100.00	6,683.17	6,664.17	6,664.17	43.18	264.57	-24.06	57.91	-53.50	2,213.60	1,929.16	284.44	7.782	
7,200.00	6,783.17	6,764.17	6,764.17	43.24	268.57	-24.06	57.91	-53.50	2,213.60	1,925.03	288.57	7.671	
7,300.00	6,883.17	6,864.17	6,864.17	43.30	272.57	-24.06	57.91	-53.50	2,213.60	1,920.90	292.70	7.563	
7,400.00	6,983.17	6,964.17	6,964.17	43.36	276.57	-24.06	57.91	-53.50	2,213.60	1,916.77	296.83	7.457	
7,500.00	7,083.17	7,064.17	7,064.17	43.42	280.57	-24.06	57.91	-53.50	2,213.60	1,912.63	300.97	7.355	
7,600.00	7,183.17	7,164.17	7,164.17	43.49	284.57	-24.06	57.91	-53.50	2,213.60	1,908.50	305.10	7.255	
7,700.00	7,283.17	7,264.17	7,264.17	43.55	288.57	-24.06	57.91	-53.50	2,213.60	1,904.36	309.24	7.158	
7,800.00	7,383.17	7,364.17	7,364.17	43.62	292.57	-24.06	57.91	-53.50	2,213.60	1,900.22	313.38	7.064	
7,900.00	7,483.17	7,464.17	7,464.17	43.69	296.57	-24.06	57.91	-53.50	2,213.60	1,896.08	317.52	6.971	
8,000.00	7,583.17	7,564.17	7,564.17	43.75	300.57	-24.06	57.91	-53.50	2,213.60	1,891.94	321.67	6.882	
8,100.00	7,683.17	7,664.17	7,664.17	43.82	304.57	-24.06	57.91	-53.50	2,213.60	1,887.79	325.81	6.794	
8,200.00	7,783.17	7,764.17	7,764.17	43.89	308.57	-24.06	57.91	-53.50	2,213.60	1,883.65	329.95	6.709	
8,300.00	7,883.17	7,864.17	7,864.17	43.97	312.57	-24.06	57.91	-53.50	2,213.60	1,879.50	334.10	6.626	
8,400.00	7,983.17	7,964.17	7,964.17	44.04	316.57	-24.06	57.91	-53.50	2,213.60	1,875.35	338.25	6.544	
8,500.00	8,083.17	8,064.17	8,064.17	44.11	320.57	-24.06	57.91	-53.50	2,213.60	1,871.20	342.40	6.465	
8,600.00	8,183.17	8,164.17	8,164.17	44.19	324.57	-24.06	57.91	-53.50	2,213.60	1,867.05	346.55	6.388	
8,700.00	8,283.17	8,264.17	8,264.17	44.26	328.57	-24.06	57.91	-53.50	2,213.60	1,862.90	350.70	6.312	
8,726.83	8,310.00	8,291.00	8,291.00	44.28	329.64	-24.06	57.91	-53.50	2,213.60	1,861.79	351.81	6.292	

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

