



US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_DRY CREEK 12-35 PAD

P_DRY CREEK 13-35

P_DRY CREEK 13-35

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 13-35

+N/-S	+E/-W	Northing	Ground Level:	5029.00	Longitude	Slot
0.00	0.00	1245631.98	Easting	3177746.16	40° 0' 21.240 N	104° 51' 55.728 W

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3173.00	3392.93	PARKMAN TOP
4775.00	5066.63	SUSSEX TOP
7357.00	7648.63	NIO A TOP
7757.00	8048.63	CODELL TOP

SECTION DETAILS

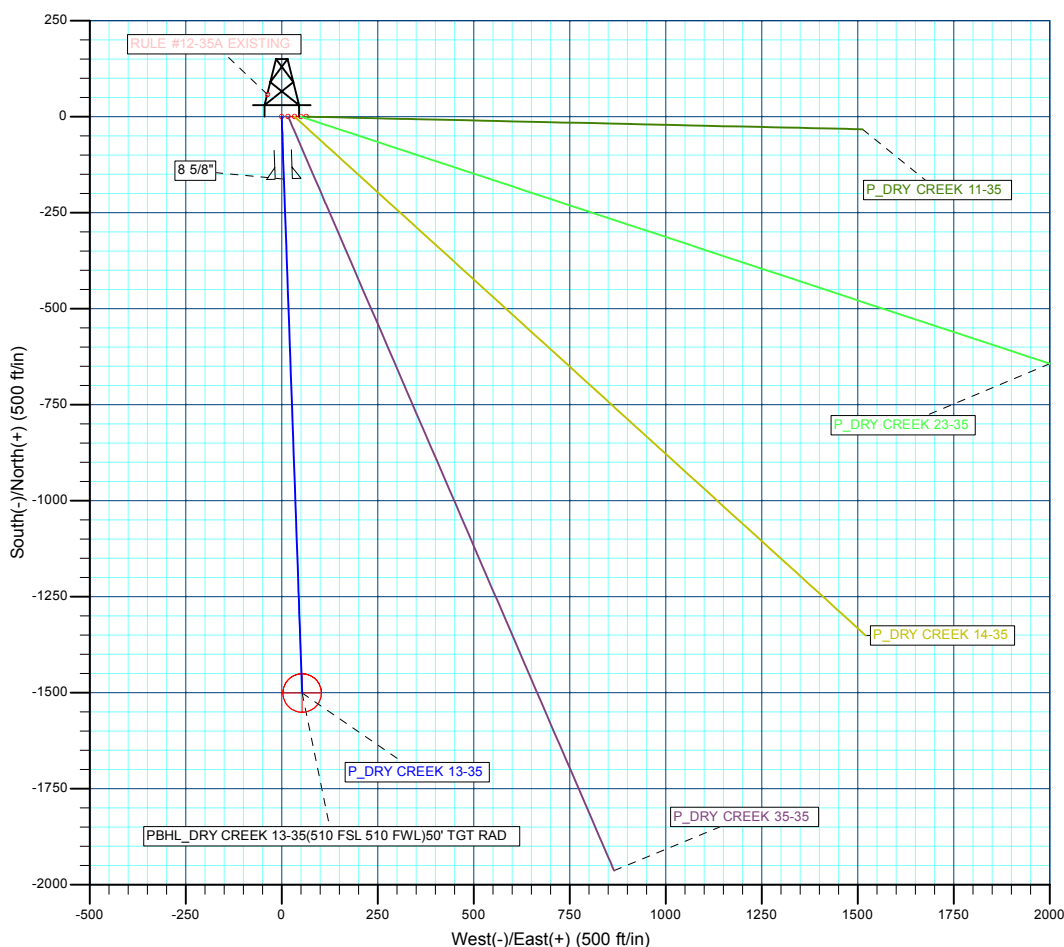
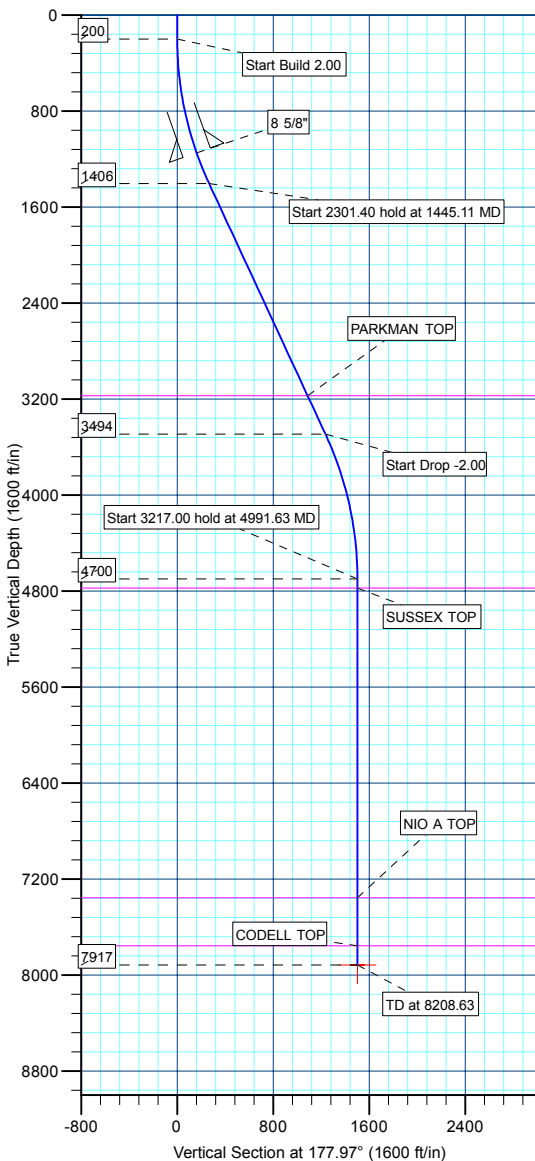
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
1445.11	24.90	177.97	1406.28	-266.18	9.44	2.00	177.97	266.35	
3746.52	24.90	177.97	3493.72	-1234.63	43.79	0.00	0.00	1235.40	
4991.63	0.00	0.00	4700.00	-1500.81	53.23	2.00	180.00	1501.75	
8208.63	0.00	0.00	7917.00	-1500.81	53.23	0.00	0.00	1501.75	PBHL_DRY CREEK 13-35(510 FSL 510 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	7917.00	-1500.80	53.23	1244131.60	3177810.13	40° 0' 6.408 N	104° 51' 55.044 W	Circle (Radius: 50.00)

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 13-35		
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 13-35			
Well Position	+N/-S	-0.01 ft	Northing:	1,245,631.98 ft
	+E/-W	-64.43 ft	Easting:	3,177,746.16 ft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
			Ground Level:	5,029.00 ft

Wellbore	P_DRY CREEK 13-35				
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	177.97

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	
1,445.11	24.90	177.97	1,406.28	-266.18	9.44	2.00	2.00	0.00	177.97	
3,746.52	24.90	177.97	3,493.72	-1,234.63	43.79	0.00	0.00	0.00	0.00	
4,991.63	0.00	0.00	4,700.00	-1,500.81	53.23	2.00	-2.00	0.00	180.00	
8,208.63	0.00	0.00	7,917.00	-1,500.81	53.23	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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 13-35		
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	177.97	299.98	-1.74	0.06	1.75	2.00	2.00	0.00
400.00	4.00	177.97	399.84	-6.97	0.25	6.98	2.00	2.00	0.00
500.00	6.00	177.97	499.45	-15.68	0.56	15.69	2.00	2.00	0.00
600.00	8.00	177.97	598.70	-27.86	0.99	27.88	2.00	2.00	0.00
700.00	10.00	177.97	697.47	-43.50	1.54	43.52	2.00	2.00	0.00
800.00	12.00	177.97	795.62	-62.56	2.22	62.60	2.00	2.00	0.00
900.00	14.00	177.97	893.06	-85.04	3.02	85.10	2.00	2.00	0.00
1,000.00	16.00	177.97	989.64	-110.91	3.93	110.98	2.00	2.00	0.00
1,100.00	18.00	177.97	1,085.27	-140.12	4.97	140.21	2.00	2.00	0.00
8 5/8"									
1,168.33	19.37	177.97	1,150.00	-162.00	5.75	162.10	2.00	2.00	0.00
1,200.00	20.00	177.97	1,179.82	-172.66	6.12	172.77	2.00	2.00	0.00
1,300.00	22.00	177.97	1,273.17	-208.47	7.39	208.60	2.00	2.00	0.00
1,400.00	24.00	177.97	1,365.21	-247.52	8.78	247.67	2.00	2.00	0.00
Start 2301.40 hold at 1445.11 MD									
1,445.11	24.90	177.97	1,406.28	-266.18	9.44	266.35	2.00	2.00	0.00
1,500.00	24.90	177.97	1,456.07	-289.28	10.26	289.46	0.00	0.00	0.00
1,600.00	24.90	177.97	1,546.77	-331.36	11.75	331.57	0.00	0.00	0.00
1,700.00	24.90	177.97	1,637.47	-373.44	13.24	373.67	0.00	0.00	0.00
1,800.00	24.90	177.97	1,728.17	-415.52	14.74	415.78	0.00	0.00	0.00
1,900.00	24.90	177.97	1,818.88	-457.60	16.23	457.89	0.00	0.00	0.00
2,000.00	24.90	177.97	1,909.58	-499.68	17.72	499.99	0.00	0.00	0.00
2,100.00	24.90	177.97	2,000.28	-541.76	19.21	542.10	0.00	0.00	0.00
2,200.00	24.90	177.97	2,090.98	-583.84	20.71	584.21	0.00	0.00	0.00
2,300.00	24.90	177.97	2,181.69	-625.92	22.20	626.32	0.00	0.00	0.00
2,400.00	24.90	177.97	2,272.39	-668.00	23.69	668.42	0.00	0.00	0.00
2,500.00	24.90	177.97	2,363.09	-710.08	25.18	710.53	0.00	0.00	0.00
2,600.00	24.90	177.97	2,453.80	-752.16	26.68	752.64	0.00	0.00	0.00
2,700.00	24.90	177.97	2,544.50	-794.25	28.17	794.74	0.00	0.00	0.00
2,800.00	24.90	177.97	2,635.20	-836.33	29.66	836.85	0.00	0.00	0.00
2,900.00	24.90	177.97	2,725.90	-878.41	31.15	878.96	0.00	0.00	0.00
3,000.00	24.90	177.97	2,816.61	-920.49	32.65	921.07	0.00	0.00	0.00
3,100.00	24.90	177.97	2,907.31	-962.57	34.14	963.17	0.00	0.00	0.00
3,200.00	24.90	177.97	2,998.01	-1,004.65	35.63	1,005.28	0.00	0.00	0.00
3,300.00	24.90	177.97	3,088.71	-1,046.73	37.12	1,047.39	0.00	0.00	0.00
PARKMAN TOP									
3,392.93	24.90	177.97	3,173.00	-1,085.83	38.51	1,086.52	0.00	0.00	0.00
3,400.00	24.90	177.97	3,179.42	-1,088.81	38.62	1,089.50	0.00	0.00	0.00
3,500.00	24.90	177.97	3,270.12	-1,130.89	40.11	1,131.60	0.00	0.00	0.00
3,600.00	24.90	177.97	3,360.82	-1,172.97	41.60	1,173.71	0.00	0.00	0.00
3,700.00	24.90	177.97	3,451.53	-1,215.05	43.09	1,215.82	0.00	0.00	0.00
Start Drop -2.00									
3,746.52	24.90	177.97	3,493.72	-1,234.63	43.79	1,235.40	0.00	0.00	0.00
3,800.00	23.83	177.97	3,542.44	-1,256.68	44.57	1,257.47	2.00	-2.00	0.00
3,900.00	21.83	177.97	3,634.59	-1,295.46	45.94	1,296.27	2.00	-2.00	0.00
4,000.00	19.83	177.97	3,728.05	-1,331.00	47.21	1,331.83	2.00	-2.00	0.00
4,100.00	17.83	177.97	3,822.69	-1,363.26	48.35	1,364.11	2.00	-2.00	0.00
4,200.00	15.83	177.97	3,918.40	-1,392.19	49.38	1,393.07	2.00	-2.00	0.00
4,300.00	13.83	177.97	4,015.07	-1,417.78	50.28	1,418.67	2.00	-2.00	0.00
4,400.00	11.83	177.97	4,112.56	-1,439.97	51.07	1,440.88	2.00	-2.00	0.00
4,500.00	9.83	177.97	4,210.78	-1,458.75	51.74	1,459.67	2.00	-2.00	0.00

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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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 13-35		
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)
4,600.00	7.83	177.97	4,309.59	-1,474.10	52.28	1,475.02	2.00	-2.00	0.00
4,700.00	5.83	177.97	4,408.87	-1,485.99	52.70	1,486.92	2.00	-2.00	0.00
4,800.00	3.83	177.97	4,508.51	-1,494.40	53.00	1,495.34	2.00	-2.00	0.00
4,900.00	1.83	177.97	4,608.38	-1,499.34	53.18	1,500.29	2.00	-2.00	0.00
Start 3217.00 hold at 4991.63 MD									
4,991.63	0.00	0.00	4,700.00	-1,500.81	53.23	1,501.75	2.00	-2.00	-194.22
5,000.00	0.00	0.00	4,708.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
SUSSEX TOP									
5,066.63	0.00	0.00	4,775.00	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,100.00	0.00	0.00	4,808.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,200.00	0.00	0.00	4,908.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,300.00	0.00	0.00	5,008.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,400.00	0.00	0.00	5,108.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,500.00	0.00	0.00	5,208.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,600.00	0.00	0.00	5,308.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,700.00	0.00	0.00	5,408.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,800.00	0.00	0.00	5,508.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
5,900.00	0.00	0.00	5,608.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,000.00	0.00	0.00	5,708.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,100.00	0.00	0.00	5,808.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,200.00	0.00	0.00	5,908.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,300.00	0.00	0.00	6,008.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,400.00	0.00	0.00	6,108.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,500.00	0.00	0.00	6,208.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,600.00	0.00	0.00	6,308.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,700.00	0.00	0.00	6,408.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,800.00	0.00	0.00	6,508.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
6,900.00	0.00	0.00	6,608.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,000.00	0.00	0.00	6,708.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,100.00	0.00	0.00	6,808.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,200.00	0.00	0.00	6,908.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,300.00	0.00	0.00	7,008.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,400.00	0.00	0.00	7,108.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,500.00	0.00	0.00	7,208.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,600.00	0.00	0.00	7,308.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
NIO A TOP									
7,648.63	0.00	0.00	7,357.00	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,700.00	0.00	0.00	7,408.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,800.00	0.00	0.00	7,508.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
7,900.00	0.00	0.00	7,608.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
8,000.00	0.00	0.00	7,708.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
CODELL TOP									
8,048.63	0.00	0.00	7,757.00	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
8,100.00	0.00	0.00	7,808.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
8,200.00	0.00	0.00	7,908.37	-1,500.81	53.23	1,501.75	0.00	0.00	0.00
PBHL_DRY CREEK 13-35(510 FSL 510 FWL)50' TGT RAD									
8,208.63	0.00	0.00	7,917.00	-1,500.81	53.23	1,501.75	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 13-35		
Design:	PLAN #1 10-28-09 RHS		

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL_DRY CREEK 1	0.00	0.00	7,917.00	-1,500.80	53.23	1,244,131.60	3,177,810.13	40° 0' 6.408 N	104° 51' 55.044 W
- plan misses target center by 0.01ft at 8208.63ft MD (7917.00 TVD, -1500.81 N, 53.23 E)									
- 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 (°)
3,392.93	3,173.00	PARKMAN TOP			
5,066.63	4,775.00	SUSSEX TOP			
7,648.63	7,357.00	NIO A TOP			
8,048.63	7,757.00	CODELL TOP			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	Start Build 2.00
1,445.11	1,406.28	-266.18	9.44	Start 2301.40 hold at 1445.11 MD
3,746.52	3,493.72	-1,234.63	43.79	Start Drop -2.00
4,991.63	4,700.00	-1,500.81	53.23	Start 3217.00 hold at 4991.63 MD
8,208.63	7,917.00	-1,500.81	53.23	TD at 8208.63



US ROCKIES REGION PLANNING

**COLORADO NOTHERN ZONE - 83
WELD_DRY CREEK 12-35 PAD
P_DRY CREEK 13-35**

**P_DRY CREEK 13-35
PLAN #1 10-28-09 RHS**

Anticollision Report

28 October, 2009



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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	8,208.62	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	64.43	63.79	100.580	CC, ES
P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #	700.00	682.34	113.16	110.17	37.851	SF
P_DRY CREEK 14-35 - P_DRY CREEK 14-35 - PLAN #	200.00	200.00	33.62	32.98	52.477	CC, ES
P_DRY CREEK 14-35 - P_DRY CREEK 14-35 - PLAN #	900.00	887.97	96.88	92.19	20.647	SF
P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #	200.00	200.00	50.42	49.78	78.715	CC, ES
P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #	800.00	782.08	114.47	110.76	30.846	SF
P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #	200.00	200.00	16.81	16.17	26.238	CC, ES
P_DRY CREEK 35-35 - P_DRY CREEK 35-35 - PLAN #	3,746.52	3,709.15	467.01	418.09	9.546	SF
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	200.00	181.00	68.56	63.00	12.330	CC
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	300.00	280.98	70.07	60.32	7.182	ES
RULE #12-35A EXISTING - RULE #12-35A EXISTING -	700.00	678.47	108.38	82.16	4.134	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	0.01	64.43	64.43							
100.00	100.00	100.00	100.00	0.10	0.10	89.99	0.01	64.43	64.43	64.24	0.19	337.239				
200.00	200.00	200.00	200.00	0.32	0.32	89.99	0.01	64.43	64.43	63.79	0.64	100.580	CC, ES			
300.00	299.98	297.75	297.73	0.52	0.53	-89.39	-0.03	66.10	66.10	65.05	1.05	62.980				
400.00	399.84	395.17	395.02	0.73	0.75	-93.20	-0.14	71.07	71.32	69.85	1.46	48.707				
500.00	499.45	491.94	491.44	0.97	0.99	-98.36	-0.33	79.29	80.62	78.69	1.92	41.904				
600.00	598.70	587.76	586.58	1.26	1.26	-103.75	-0.58	90.63	94.48	92.05	2.43	38.868				
700.00	697.47	682.34	680.06	1.60	1.57	-108.60	-0.91	104.93	113.16	110.17	2.99	37.851	SF			
800.00	795.62	775.38	771.52	1.99	1.92	-112.60	-1.29	122.00	136.69	133.08	3.60	37.919				
900.00	893.06	866.66	860.66	2.43	2.31	-115.73	-1.74	141.63	164.93	160.65	4.28	38.533				
1,000.00	989.64	955.93	947.19	2.93	2.74	-118.11	-2.23	163.56	197.72	192.70	5.02	39.401				
1,100.00	1,085.27	1,043.01	1,030.89	3.50	3.21	-119.87	-2.77	187.54	234.85	229.03	5.82	40.381				
1,200.00	1,179.82	1,127.71	1,111.58	4.12	3.71	-121.15	-3.36	213.29	276.11	269.44	6.67	41.392				
1,300.00	1,273.17	1,209.90	1,189.11	4.80	4.24	-122.04	-3.97	240.56	321.32	313.75	7.58	42.395				
1,400.00	1,365.21	1,289.46	1,263.39	5.54	4.81	-122.61	-4.62	269.05	370.28	361.74	8.54	43.355				
1,445.11	1,406.28	1,324.47	1,295.82	5.90	5.07	-122.78	-4.92	282.24	393.55	384.56	8.99	43.767				

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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 11-35 - P_DRY CREEK 11-35 - PLAN #1 10-28-09 F												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
1,500.00	1,456.07	1,366.48	1,334.51	6.34	5.40	-123.45	-5.28	298.59	422.56	412.99	9.57	44.155	
1,600.00	1,546.77	1,442.31	1,403.74	7.15	6.01	-124.30	-5.98	329.53	476.77	466.13	10.64	44.812	
1,700.00	1,637.47	1,525.71	1,479.48	7.96	6.72	-124.97	-6.77	364.42	531.72	519.95	11.78	45.154	
1,800.00	1,728.17	1,609.10	1,555.22	8.78	7.43	-125.51	-7.56	399.32	586.73	573.80	12.92	45.406	
1,900.00	1,818.88	1,692.50	1,630.96	9.59	8.15	-125.96	-8.35	434.22	641.76	627.68	14.08	45.593	
2,000.00	1,909.58	1,775.90	1,706.70	10.42	8.87	-126.35	-9.14	469.12	696.81	681.58	15.24	45.736	
2,100.00	2,000.28	1,859.30	1,782.44	11.24	9.59	-126.67	-9.93	504.02	751.89	735.49	16.40	45.848	
2,200.00	2,090.98	1,942.69	1,858.18	12.06	10.32	-126.95	-10.72	538.92	806.98	789.41	17.57	45.938	
2,300.00	2,181.69	2,026.09	1,933.92	12.89	11.04	-127.19	-11.51	573.81	862.08	843.34	18.74	46.012	
2,400.00	2,272.39	2,109.49	2,009.66	13.71	11.77	-127.41	-12.30	608.71	917.19	897.28	19.91	46.072	
2,500.00	2,363.09	2,192.89	2,085.40	14.54	12.50	-127.60	-13.08	643.61	972.30	951.22	21.08	46.124	
2,600.00	2,453.80	2,276.28	2,161.14	15.36	13.23	-127.77	-13.87	678.51	1,027.43	1,005.17	22.25	46.168	
2,700.00	2,544.50	2,359.68	2,236.88	16.19	13.97	-127.92	-14.66	713.41	1,082.56	1,059.13	23.43	46.207	
2,800.00	2,635.20	2,443.08	2,312.62	17.02	14.70	-128.06	-15.45	748.31	1,137.69	1,113.09	24.60	46.242	
2,900.00	2,725.90	2,526.48	2,388.36	17.85	15.43	-128.19	-16.24	783.21	1,192.83	1,167.05	25.78	46.272	
3,000.00	2,816.61	2,609.87	2,464.11	18.68	16.16	-128.30	-17.03	818.10	1,247.97	1,221.02	26.95	46.301	
3,100.00	2,907.31	2,693.27	2,539.85	19.50	16.90	-128.41	-17.82	853.00	1,303.12	1,274.99	28.13	46.326	
3,200.00	2,998.01	2,776.67	2,615.59	20.33	17.63	-128.50	-18.61	887.90	1,358.27	1,328.96	29.30	46.351	
3,300.00	3,088.71	2,860.07	2,691.33	21.16	18.37	-128.59	-19.39	922.80	1,413.42	1,382.94	30.48	46.373	
3,400.00	3,179.42	2,943.46	2,767.07	21.99	19.10	-128.67	-20.18	957.70	1,468.57	1,436.92	31.65	46.395	
3,500.00	3,270.12	3,026.86	2,842.81	22.82	19.84	-128.75	-20.97	992.60	1,523.73	1,490.90	32.83	46.416	
3,600.00	3,360.82	3,110.26	2,918.55	23.65	20.57	-128.82	-21.76	1,027.50	1,578.89	1,544.88	34.00	46.435	
3,700.00	3,451.53	3,193.66	2,994.29	24.48	21.31	-128.89	-22.55	1,062.39	1,634.04	1,598.87	35.18	46.455	
3,746.52	3,493.72	3,232.45	3,029.52	24.87	21.65	-128.92	-22.92	1,078.63	1,659.70	1,623.98	35.72	46.463	
3,800.00	3,542.44	3,277.23	3,070.19	25.24	22.05	-129.47	-23.34	1,097.37	1,688.94	1,652.52	36.42	46.374	
3,900.00	3,634.59	3,361.87	3,147.06	25.79	22.79	-130.39	-24.14	1,132.78	1,742.17	1,704.54	37.63	46.297	
4,000.00	3,728.05	3,447.61	3,224.93	26.31	23.55	-131.15	-24.95	1,168.66	1,793.48	1,754.65	38.83	46.191	
4,100.00	3,822.69	3,534.35	3,303.70	26.79	24.32	-131.76	-25.77	1,204.96	1,842.81	1,802.81	40.00	46.067	
4,200.00	3,918.40	3,621.97	3,383.28	27.24	25.09	-132.25	-26.60	1,241.63	1,890.15	1,849.00	41.15	45.931	
4,300.00	4,015.07	3,709.07	3,463.03	27.64	26.17	-132.42	-27.93	1,300.58	1,934.41	1,891.92	42.49	45.526	
4,400.00	4,112.56	3,800.71	3,548.80	28.00	27.19	-132.51	-29.29	1,360.59	1,973.07	1,929.33	43.74	45.110	
4,500.00	4,210.78	4,120.52	3,630.76	28.32	28.10	-132.60	-30.48	1,413.02	2,005.66	1,960.81	44.85	44.723	
4,600.00	4,309.59	4,307.43	4,032.63	28.59	28.85	-132.69	-31.45	1,455.97	2,031.82	1,986.04	45.78	44.378	
4,700.00	4,408.87	4,500.03	4,222.55	28.81	29.43	-132.80	-32.17	1,487.74	2,051.25	2,004.71	46.54	44.078	
4,800.00	4,508.51	4,696.62	4,418.17	28.98	29.82	-132.94	-32.60	1,506.93	2,063.72	2,016.63	47.09	43.821	
4,900.00	4,608.38	4,886.96	4,608.38	29.11	30.01	-133.09	-32.73	1,512.70	2,069.10	2,021.64	47.46	43.597	
4,991.63	4,700.00	4,978.58	4,700.00	29.20	30.08	44.83	-32.73	1,512.70	2,070.10	2,022.46	47.64	43.450	
5,000.00	4,708.37	4,986.94	4,708.37	29.20	30.09	44.83	-32.73	1,512.70	2,070.10	2,022.44	47.66	43.437	
5,100.00	4,808.37	5,086.94	4,808.37	29.26	30.16	44.83	-32.73	1,512.70	2,070.10	2,022.28	47.82	43.287	
5,200.00	4,908.37	5,186.94	4,908.37	29.33	30.23	44.83	-32.73	1,512.70	2,070.10	2,022.11	47.99	43.134	
5,300.00	5,008.37	5,286.94	5,008.37	29.39	30.31	44.83	-32.73	1,512.70	2,070.10	2,021.94	48.17	42.979	
5,400.00	5,108.37	5,386.94	5,108.37	29.46	30.39	44.83	-32.73	1,512.70	2,070.10	2,021.76	48.34	42.822	
5,500.00	5,208.37	5,486.94	5,208.37	29.52	30.47	44.83	-32.73	1,512.70	2,070.10	2,021.58	48.52	42.663	
5,600.00	5,308.37	5,586.94	5,308.37	29.59	30.55	44.83	-32.73	1,512.70	2,070.10	2,021.40	48.71	42.502	
5,700.00	5,408.37	5,686.94	5,408.37	29.66	30.63	44.83	-32.73	1,512.70	2,070.10	2,021.21	48.89	42.340	
5,800.00	5,508.37	5,786.94	5,508.37	29.73	30.71	44.83	-32.73	1,512.70	2,070.10	2,021.02	49.08	42.176	
5,900.00	5,608.37	5,886.94	5,608.37	29.81	30.80	44.83	-32.73	1,512.70	2,070.10	2,020.82	49.28	42.010	
6,000.00	5,708.37	5,986.94	5,708.37	29.88	30.88	44.83	-32.73	1,512.70	2,070.10	2,020.63	49.47	41.842	
6,100.00	5,808.37	6,086.94	5,808.37	29.96	30.97	44.83	-32.73	1,512.70	2,070.10	2,020.43	49.67	41.673	
6,200.00	5,908.37	6,186.94	5,908.37	30.04	31.06	44.83	-32.73	1,512.70	2,070.10	2,020.22	49.88	41.503	
6,300.00	6,008.37	6,286.94	6,008.37	30.12	31.15	44.83	-32.73	1,512.70	2,070.10	2,020.02	50.09	41.331	
6,400.00	6,108.37	6,386.94	6,108.37	30.20	31.24	44.83	-32.73	1,512.70	2,070.10	2,019.81	50.30	41.158	

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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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					
6,500.00	6,208.37	6,486.94	6,208.37	30.28	31.34	44.83	-32.73	1,512.70	2,070.10	2,019.59	50.51	40.985					
6,600.00	6,308.37	6,586.94	6,308.37	30.36	31.43	44.83	-32.73	1,512.70	2,070.10	2,019.38	50.73	40.810					
6,700.00	6,408.37	6,686.94	6,408.37	30.45	31.53	44.83	-32.73	1,512.70	2,070.10	2,019.16	50.95	40.634					
6,800.00	6,508.37	6,786.94	6,508.37	30.54	31.63	44.83	-32.73	1,512.70	2,070.10	2,018.93	51.17	40.457					
6,900.00	6,608.37	6,886.94	6,608.37	30.62	31.72	44.83	-32.73	1,512.70	2,070.10	2,018.71	51.39	40.279					
7,000.00	6,708.37	6,986.94	6,708.37	30.71	31.82	44.83	-32.73	1,512.70	2,070.10	2,018.48	51.62	40.101					
7,100.00	6,808.37	7,086.94	6,808.37	30.80	31.92	44.83	-32.73	1,512.70	2,070.10	2,018.25	51.85	39.922					
7,200.00	6,908.37	7,186.94	6,908.37	30.90	32.03	44.83	-32.73	1,512.70	2,070.10	2,018.01	52.09	39.742					
7,300.00	7,008.37	7,286.94	7,008.37	30.99	32.13	44.83	-32.73	1,512.70	2,070.10	2,017.78	52.33	39.562					
7,400.00	7,108.37	7,386.94	7,108.37	31.08	32.24	44.83	-32.73	1,512.70	2,070.10	2,017.54	52.57	39.381					
7,500.00	7,208.37	7,486.94	7,208.37	31.18	32.34	44.83	-32.73	1,512.70	2,070.10	2,017.29	52.81	39.200					
7,600.00	7,308.37	7,586.94	7,308.37	31.28	32.45	44.83	-32.73	1,512.70	2,070.10	2,017.05	53.05	39.019					
7,700.00	7,408.37	7,686.94	7,408.37	31.38	32.56	44.83	-32.73	1,512.70	2,070.10	2,016.80	53.30	38.837					
7,800.00	7,508.37	7,786.94	7,508.37	31.48	32.67	44.83	-32.73	1,512.70	2,070.10	2,016.55	53.55	38.655					
7,900.00	7,608.37	7,886.94	7,608.37	31.58	32.78	44.83	-32.73	1,512.70	2,070.10	2,016.30	53.81	38.473					
8,000.00	7,708.37	7,986.94	7,708.37	31.68	32.89	44.83	-32.73	1,512.70	2,070.10	2,016.04	54.06	38.291					
8,100.00	7,808.37	8,086.94	7,808.37	31.79	33.00	44.83	-32.73	1,512.70	2,070.10	2,015.78	54.32	38.109					
8,208.63	7,917.00	8,195.58	7,917.00	31.90	33.13	44.83	-32.73	1,512.70	2,070.10	2,015.50	54.60	37.911					

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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)	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	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	299.12	299.10	0.52	0.52	-88.90	-1.15	34.88	34.84	33.79	1.04	33.343	
400.00	399.84	398.14	397.98	0.73	0.74	-91.30	-4.60	38.69	38.56	37.10	1.46	26.415	
500.00	499.45	496.94	496.40	0.97	0.98	-94.40	-10.33	45.00	44.86	42.93	1.94	23.145	
600.00	598.70	595.42	594.17	1.26	1.27	-97.47	-18.32	53.78	53.84	51.35	2.49	21.619	
700.00	697.47	693.48	691.05	1.60	1.59	-100.13	-28.51	65.00	65.52	62.39	3.13	20.946	
800.00	795.62	791.03	786.85	1.99	1.97	-102.26	-40.85	78.58	79.87	76.01	3.86	20.694	
900.00	893.06	887.97	881.38	2.43	2.40	-103.91	-55.28	94.47	96.88	92.19	4.69	20.647 SF	
1,000.00	989.64	984.22	974.46	2.93	2.89	-105.14	-71.72	112.57	116.48	110.85	5.63	20.695	
1,100.00	1,085.27	1,079.69	1,065.93	3.50	3.43	-106.05	-90.10	132.80	138.63	131.96	6.67	20.786	
1,200.00	1,179.82	1,174.31	1,155.64	4.12	4.03	-106.69	-110.33	155.07	163.26	155.45	7.81	20.892	
1,300.00	1,273.17	1,268.01	1,243.44	4.80	4.68	-107.13	-132.32	179.27	190.33	181.26	9.06	21.001	
1,400.00	1,365.21	1,360.73	1,329.23	5.54	5.38	-107.41	-155.96	205.30	219.77	209.35	10.41	21.108	
1,445.11	1,406.28	1,402.23	1,367.25	5.90	5.70	-107.49	-167.15	217.61	233.81	222.76	11.04	21.170	
1,500.00	1,456.07	1,452.81	1,413.27	6.34	6.13	-107.79	-181.27	233.15	251.35	239.50	11.86	21.198	
1,600.00	1,546.77	1,547.47	1,499.15	7.15	6.93	-108.16	-208.03	262.61	283.56	270.18	13.38	21.192	
1,700.00	1,637.47	1,642.13	1,585.04	7.96	7.74	-108.46	-234.79	292.07	315.78	300.86	14.91	21.172	
1,800.00	1,728.17	1,736.79	1,670.92	8.78	8.56	-108.69	-261.55	321.53	348.00	331.54	16.46	21.146	
1,900.00	1,818.88	1,831.44	1,756.80	9.59	9.38	-108.89	-288.32	350.99	380.23	362.22	18.00	21.118	
2,000.00	1,909.58	1,926.10	1,842.69	10.42	10.20	-109.06	-315.08	380.44	412.46	392.90	19.56	21.090	
2,100.00	2,000.28	2,020.76	1,928.57	11.24	11.03	-109.20	-341.84	409.90	444.69	423.58	21.11	21.063	
2,200.00	2,090.98	2,115.42	2,014.46	12.06	11.85	-109.33	-368.60	439.36	476.92	454.25	22.67	21.038	
2,300.00	2,181.69	2,210.07	2,100.34	12.89	12.68	-109.44	-395.36	468.82	509.16	484.93	24.23	21.014	
2,400.00	2,272.39	2,304.73	2,186.22	13.71	13.51	-109.53	-422.12	498.28	541.40	515.61	25.79	20.993	
2,500.00	2,363.09	2,399.39	2,272.11	14.54	14.34	-109.62	-448.89	527.73	573.64	546.29	27.35	20.973	
2,600.00	2,453.80	2,494.04	2,357.99	15.36	15.17	-109.69	-475.65	557.19	605.88	576.96	28.91	20.955	
2,700.00	2,544.50	2,588.70	2,443.88	16.19	16.00	-109.76	-502.41	586.65	638.12	607.64	30.48	20.938	
2,800.00	2,635.20	2,683.36	2,529.76	17.02	16.83	-109.82	-529.17	616.11	670.36	638.32	32.04	20.923	
2,900.00	2,725.90	2,778.02	2,615.64	17.85	17.67	-109.88	-555.93	645.57	702.60	669.00	33.60	20.909	
3,000.00	2,816.61	2,872.67	2,701.53	18.68	18.50	-109.93	-582.69	675.03	734.85	699.68	35.17	20.896	
3,100.00	2,907.31	2,967.33	2,787.41	19.50	19.33	-109.97	-609.46	704.48	767.09	730.36	36.73	20.884	
3,200.00	2,998.01	3,061.99	2,873.30	20.33	20.16	-110.02	-636.22	733.94	799.33	761.04	38.29	20.874	
3,300.00	3,088.71	3,156.65	2,959.18	21.16	21.00	-110.06	-662.98	763.40	831.58	791.72	39.86	20.864	
3,400.00	3,179.42	3,251.30	3,045.06	21.99	21.83	-110.09	-689.74	792.86	863.82	822.40	41.42	20.856	
3,500.00	3,270.12	3,345.96	3,130.95	22.82	22.66	-110.13	-716.50	822.32	896.07	853.08	42.98	20.848	
3,600.00	3,360.82	3,440.62	3,216.83	23.65	23.50	-110.16	-743.26	851.77	928.31	883.77	44.54	20.840	
3,700.00	3,451.53	3,535.28	3,302.72	24.48	24.33	-110.19	-770.03	881.23	960.56	914.45	46.11	20.834	
3,746.52	3,493.72	3,579.31	3,342.67	24.87	24.72	-110.20	-782.47	894.94	975.56	928.72	46.83	20.831	
3,800.00	3,542.44	3,629.99	3,388.65	25.24	25.17	-110.53	-796.80	910.71	992.64	944.98	47.66	20.827	
3,900.00	3,634.59	3,725.00	3,474.85	25.79	26.01	-110.96	-823.66	940.27	1,023.69	974.61	49.08	20.859	
4,000.00	3,728.05	3,820.23	3,561.26	26.31	26.85	-111.20	-850.59	969.91	1,053.57	1,003.10	50.46	20.878	
4,100.00	3,822.69	3,915.58	3,647.77	26.79	27.69	-111.25	-877.55	999.59	1,082.29	1,030.48	51.81	20.888	
4,200.00	3,918.40	4,010.92	3,734.27	27.24	28.53	-111.14	-904.50	1,029.26	1,109.92	1,056.79	53.12	20.894	
4,300.00	4,015.07	4,106.14	3,820.67	27.64	29.37	-110.86	-931.42	1,058.89	1,136.49	1,082.12	54.38	20.900	
4,400.00	4,112.56	4,201.12	3,906.84	28.00	30.21	-110.45	-958.27	1,088.45	1,162.11	1,106.54	55.57	20.912	
4,500.00	4,210.78	4,295.75	3,992.70	28.32	31.04	-109.91	-985.03	1,117.90	1,186.87	1,130.17	56.70	20.932	
4,600.00	4,309.59	4,389.90	4,078.13	28.59	31.87	-109.25	-1,011.65	1,147.20	1,210.90	1,153.14	57.76	20.966	
4,700.00	4,408.87	4,483.48	4,163.03	28.81	32.70	-108.48	-1,038.10	1,176.32	1,234.32	1,175.59	58.73	21.017	
4,800.00	4,508.51	4,576.36	4,247.30	28.98	33.52	-107.62	-1,064.36	1,205.22	1,257.29	1,197.68	59.61	21.091	
4,900.00	4,608.38	4,668.42	4,330.84	29.11	34.33	-106.67	-1,090.39	1,233.88	1,279.97	1,219.57	60.40	21.190	

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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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
4,991.63	4,700.00	4,751.98	4,406.65	29.20	35.07	72.23	-1,114.01	1,259.88	1,300.64	1,239.59	61.05	21.305	
5,000.00	4,708.37	4,759.57	4,413.54	29.20	35.13	72.35	-1,116.16	1,262.24	1,302.53	1,241.44	61.10	21.319	
5,100.00	4,808.37	4,850.30	4,495.86	29.26	35.93	73.82	-1,141.81	1,290.48	1,325.64	1,264.00	61.64	21.505	
5,200.00	4,908.37	4,941.03	4,578.18	29.33	36.74	75.24	-1,167.46	1,318.71	1,349.67	1,287.52	62.15	21.717	
5,300.00	5,008.37	5,060.82	4,687.59	29.39	37.60	77.00	-1,200.24	1,354.80	1,373.80	1,311.22	62.58	21.952	
5,400.00	5,108.37	5,192.74	4,810.29	29.46	38.40	78.67	-1,232.79	1,390.63	1,396.18	1,333.28	62.90	22.195	
5,500.00	5,208.37	5,329.28	4,939.50	29.52	39.12	80.13	-1,262.45	1,423.27	1,416.38	1,353.21	63.16	22.425	
5,600.00	5,308.37	5,470.04	5,074.75	29.59	39.76	81.38	-1,288.65	1,452.11	1,434.04	1,370.66	63.38	22.627	
5,700.00	5,408.37	5,614.52	5,215.38	29.66	40.32	82.40	-1,310.86	1,476.56	1,448.86	1,385.30	63.56	22.795	
5,800.00	5,508.37	5,762.10	5,360.56	29.73	40.77	83.19	-1,328.60	1,496.09	1,460.60	1,396.88	63.72	22.921	
5,900.00	5,608.37	5,912.07	5,509.30	29.81	41.12	83.76	-1,341.46	1,510.24	1,469.05	1,405.16	63.88	22.996	
6,000.00	5,708.37	6,063.66	5,660.44	29.88	41.36	84.09	-1,349.11	1,518.67	1,474.05	1,410.01	64.04	23.019	
6,100.00	5,808.37	6,211.64	5,808.37	29.96	41.49	84.19	-1,351.40	1,521.19	1,475.54	1,411.33	64.22	22.978	
6,200.00	5,908.37	6,311.64	5,908.37	30.04	41.55	84.19	-1,351.40	1,521.19	1,475.54	1,411.17	64.37	22.924	
6,300.00	6,008.37	6,411.64	6,008.37	30.12	41.61	84.19	-1,351.40	1,521.19	1,475.54	1,411.03	64.52	22.871	
6,400.00	6,108.37	6,511.64	6,108.37	30.20	41.68	84.19	-1,351.40	1,521.19	1,475.54	1,410.87	64.67	22.817	
6,500.00	6,208.37	6,611.64	6,208.37	30.28	41.74	84.19	-1,351.40	1,521.19	1,475.54	1,410.72	64.82	22.763	
6,600.00	6,308.37	6,711.64	6,308.37	30.36	41.80	84.19	-1,351.40	1,521.19	1,475.54	1,410.56	64.98	22.708	
6,700.00	6,408.37	6,811.64	6,408.37	30.45	41.87	84.19	-1,351.40	1,521.19	1,475.54	1,410.40	65.14	22.652	
6,800.00	6,508.37	6,911.64	6,508.37	30.54	41.93	84.19	-1,351.40	1,521.19	1,475.54	1,410.24	65.30	22.596	
6,900.00	6,608.37	7,011.64	6,608.37	30.62	42.00	84.19	-1,351.40	1,521.19	1,475.54	1,410.08	65.47	22.539	
7,000.00	6,708.37	7,111.64	6,708.37	30.71	42.07	84.19	-1,351.40	1,521.19	1,475.54	1,409.91	65.63	22.481	
7,100.00	6,808.37	7,211.64	6,808.37	30.80	42.14	84.19	-1,351.40	1,521.19	1,475.54	1,409.74	65.80	22.423	
7,200.00	6,908.37	7,311.64	6,908.37	30.90	42.21	84.19	-1,351.40	1,521.19	1,475.54	1,409.56	65.98	22.364	
7,300.00	7,008.37	7,411.64	7,008.37	30.99	42.28	84.19	-1,351.40	1,521.19	1,475.54	1,409.39	66.15	22.305	
7,400.00	7,108.37	7,511.64	7,108.37	31.08	42.35	84.19	-1,351.40	1,521.19	1,475.54	1,409.21	66.33	22.245	
7,500.00	7,208.37	7,611.64	7,208.37	31.18	42.42	84.19	-1,351.40	1,521.19	1,475.54	1,409.03	66.51	22.184	
7,600.00	7,308.37	7,711.64	7,308.37	31.28	42.50	84.19	-1,351.40	1,521.19	1,475.54	1,408.84	66.70	22.123	
7,700.00	7,408.37	7,811.64	7,408.37	31.38	42.57	84.19	-1,351.40	1,521.19	1,475.54	1,408.66	66.88	22.061	
7,800.00	7,508.37	7,911.64	7,508.37	31.48	42.65	84.19	-1,351.40	1,521.19	1,475.54	1,408.47	67.07	21.999	
7,900.00	7,608.37	8,011.64	7,608.37	31.58	42.73	84.19	-1,351.40	1,521.19	1,475.54	1,408.28	67.26	21.936	
8,000.00	7,708.37	8,111.64	7,708.37	31.68	42.80	84.19	-1,351.40	1,521.19	1,475.54	1,408.08	67.46	21.873	
8,100.00	7,808.37	8,211.64	7,808.37	31.79	42.88	84.19	-1,351.40	1,521.19	1,475.54	1,407.89	67.65	21.810	
8,208.63	7,917.00	8,320.27	7,917.00	31.90	42.97	84.19	-1,351.40	1,521.19	1,475.54	1,407.67	67.87	21.740	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK 12-35 PAD - P_DRY CREEK 23-35 - P_DRY CREEK 23-35 - PLAN #1 10-28-09 F												Offset Site Error:	0.00 ft
Survey Program: 0-MWMD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.00	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	298.32	298.30	0.52	0.53	-89.24	-0.53	52.03	52.00	50.96	1.05	49.653	
400.00	399.84	396.41	396.25	0.73	0.74	-92.63	-2.11	56.81	56.89	55.43	1.46	38.931	
500.00	499.45	494.04	493.53	0.97	0.99	-97.08	-4.72	64.74	65.38	63.46	1.93	33.928	
600.00	598.70	591.01	589.79	1.26	1.26	-101.58	-8.35	75.72	77.75	75.30	2.45	31.714	
700.00	697.47	687.09	684.74	1.60	1.58	-105.54	-12.94	89.65	94.12	91.08	3.04	30.920	
800.00	795.62	782.08	778.09	1.99	1.94	-108.74	-18.46	106.39	114.47	110.76	3.71	30.846 SF	
900.00	893.06	875.81	869.56	2.43	2.35	-111.22	-24.86	125.77	138.72	134.27	4.46	31.125	
1,000.00	989.64	968.11	958.94	2.93	2.81	-113.08	-32.06	147.63	166.76	161.47	5.28	31.564	
1,100.00	1,085.27	1,058.81	1,046.00	3.50	3.31	-114.45	-40.02	171.76	198.44	192.26	6.19	32.064	
1,200.00	1,179.82	1,147.78	1,130.58	4.12	3.85	-115.42	-48.67	197.96	233.66	226.49	7.17	32.578	
1,300.00	1,273.17	1,234.90	1,212.54	4.80	4.44	-116.09	-57.92	226.02	272.28	264.05	8.23	33.084	
1,400.00	1,365.21	1,320.08	1,291.76	5.54	5.06	-116.51	-67.72	255.73	314.18	304.82	9.36	33.576	
1,445.11	1,406.28	1,357.85	1,326.58	5.90	5.36	-116.63	-72.30	269.62	334.11	324.22	9.89	33.782	
1,500.00	1,456.07	1,403.78	1,368.67	6.34	5.72	-117.16	-78.07	287.09	359.00	348.43	10.57	33.973	
1,600.00	1,546.77	1,492.60	1,449.84	7.15	6.45	-117.93	-89.36	321.33	404.72	392.85	11.86	34.116	
1,700.00	1,637.47	1,581.42	1,531.02	7.96	7.19	-118.55	-100.66	355.57	450.48	437.31	13.17	34.203	
1,800.00	1,728.17	1,670.24	1,612.19	8.78	7.94	-119.06	-111.95	389.82	496.28	481.79	14.49	34.258	
1,900.00	1,818.88	1,759.06	1,693.36	9.59	8.68	-119.48	-123.25	424.06	542.10	526.29	15.81	34.292	
2,000.00	1,909.58	1,847.88	1,774.53	10.42	9.43	-119.84	-134.54	458.30	587.94	570.80	17.13	34.312	
2,100.00	2,000.28	1,936.70	1,855.70	11.24	10.19	-120.14	-145.84	492.54	633.80	615.33	18.46	34.325	
2,200.00	2,090.98	2,025.52	1,936.87	12.06	10.94	-120.40	-157.14	526.79	679.67	659.87	19.80	34.332	
2,300.00	2,181.69	2,114.34	2,018.04	12.89	11.70	-120.63	-168.43	561.03	725.55	704.41	21.13	34.336	
2,400.00	2,272.39	2,203.16	2,099.21	13.71	12.46	-120.83	-179.73	595.27	771.43	748.97	22.47	34.338	
2,500.00	2,363.09	2,291.98	2,180.38	14.54	13.21	-121.01	-191.02	629.51	817.33	793.52	23.80	34.339	
2,600.00	2,453.80	2,380.80	2,261.55	15.36	13.97	-121.17	-202.32	663.76	863.23	838.09	25.14	34.339	
2,700.00	2,544.50	2,469.61	2,342.72	16.19	14.73	-121.32	-213.61	698.00	909.13	882.66	26.48	34.338	
2,800.00	2,635.20	2,558.43	2,423.89	17.02	15.49	-121.45	-224.91	732.24	955.04	927.23	27.81	34.337	
2,900.00	2,725.90	2,647.25	2,505.07	17.85	16.25	-121.57	-236.20	766.48	1,000.95	971.80	29.15	34.337	
3,000.00	2,816.61	2,736.07	2,586.24	18.68	17.01	-121.68	-247.50	800.73	1,046.87	1,016.38	30.49	34.337	
3,100.00	2,907.31	2,824.89	2,667.41	19.50	17.78	-121.77	-258.79	834.97	1,092.79	1,060.96	31.83	34.337	
3,200.00	2,998.01	2,913.71	2,748.58	20.33	18.54	-121.87	-270.09	869.21	1,138.71	1,105.54	33.16	34.337	
3,300.00	3,088.71	3,002.53	2,829.75	21.16	19.30	-121.95	-281.39	903.45	1,184.63	1,150.13	34.50	34.338	
3,400.00	3,179.42	3,091.35	2,910.92	21.99	20.06	-122.03	-292.68	937.70	1,230.55	1,194.72	35.84	34.339	
3,500.00	3,270.12	3,180.17	2,992.09	22.82	20.82	-122.10	-303.98	971.94	1,276.48	1,239.31	37.17	34.341	
3,600.00	3,360.82	3,268.99	3,073.26	23.65	21.59	-122.17	-315.27	1,006.18	1,322.41	1,283.90	38.51	34.342	
3,700.00	3,451.53	3,357.81	3,154.43	24.48	22.35	-122.23	-326.57	1,040.42	1,368.33	1,328.49	39.84	34.345	
3,746.52	3,493.72	3,399.12	3,192.19	24.87	22.71	-122.26	-331.82	1,056.35	1,389.70	1,349.24	40.46	34.346	
3,800.00	3,542.44	3,446.75	3,235.72	25.24	23.11	-122.73	-337.88	1,074.71	1,414.03	1,372.81	41.22	34.305	
3,900.00	3,634.59	3,536.44	3,317.68	25.79	23.89	-123.48	-349.28	1,109.29	1,458.21	1,415.69	42.52	34.292	
4,000.00	3,728.05	3,626.85	3,400.31	26.31	24.66	-124.06	-360.78	1,144.15	1,500.67	1,456.86	43.81	34.255	
4,100.00	3,822.69	3,717.89	3,483.51	26.79	25.44	-124.49	-372.36	1,179.25	1,541.38	1,496.31	45.07	34.201	
4,200.00	3,918.40	3,809.43	3,567.17	27.24	26.23	-124.79	-384.00	1,214.54	1,580.32	1,534.03	46.30	34.136	
4,300.00	4,015.07	3,901.37	3,651.19	27.64	27.02	-124.96	-395.69	1,249.99	1,617.51	1,570.03	47.48	34.064	
4,400.00	4,112.56	3,993.60	3,735.48	28.00	27.82	-125.01	-407.42	1,285.54	1,652.96	1,604.33	48.63	33.992	
4,500.00	4,210.78	4,086.00	3,819.92	28.32	28.61	-124.96	-419.17	1,321.17	1,686.70	1,636.98	49.72	33.924	
4,600.00	4,309.59	4,178.46	3,904.42	28.59	29.41	-124.80	-430.93	1,356.81	1,718.77	1,668.01	50.75	33.865	
4,700.00	4,408.87	4,270.87	3,988.88	28.81	30.20	-124.55	-442.68	1,392.44	1,749.22	1,697.49	51.73	33.817	
4,800.00	4,508.51	4,363.12	4,073.18	28.98	30.99	-124.21	-454.42	1,428.00	1,778.12	1,725.49	52.63	33.785	
4,900.00	4,608.38	4,455.09	4,157.23	29.11	31.79	-123.79	-466.11	1,463.46	1,805.55	1,752.09	53.46	33.773	

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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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
4,991.63	4,700.00	4,539.02	4,233.93	29.20	32.51	54.63	-476.79	1,495.82	1,829.46	1,775.29	54.16	33.777	
5,000.00	4,708.37	4,546.67	4,240.92	29.20	32.57	54.71	-477.76	1,498.77	1,831.59	1,777.37	54.22	33.780	
5,100.00	4,808.37	4,638.06	4,324.44	29.26	33.36	55.67	-489.38	1,534.00	1,857.38	1,802.48	54.89	33.836	
5,200.00	4,908.37	4,729.45	4,407.96	29.33	34.15	56.60	-501.00	1,569.23	1,883.69	1,828.15	55.54	33.913	
5,300.00	5,008.37	4,820.84	4,491.48	29.39	34.93	57.50	-512.63	1,604.47	1,910.50	1,854.33	56.17	34.010	
5,400.00	5,108.37	4,912.22	4,575.00	29.46	35.72	58.39	-524.25	1,639.70	1,937.79	1,881.01	56.78	34.126	
5,500.00	5,208.37	5,003.61	4,658.52	29.52	36.51	59.25	-535.87	1,674.93	1,965.55	1,908.17	57.37	34.258	
5,600.00	5,308.37	5,095.00	4,742.04	29.59	37.29	60.09	-547.49	1,710.17	1,993.74	1,935.79	57.95	34.407	
5,700.00	5,408.37	5,186.39	4,825.56	29.66	38.08	60.90	-559.11	1,745.40	2,022.35	1,963.85	58.50	34.570	
5,800.00	5,508.37	5,277.78	4,909.08	29.73	38.87	61.70	-570.74	1,780.63	2,051.37	1,992.33	59.04	34.747	
5,900.00	5,608.37	5,369.17	4,992.60	29.81	39.65	62.48	-582.36	1,815.87	2,080.77	2,021.21	59.56	34.936	
6,000.00	5,708.37	5,460.56	5,076.11	29.88	40.44	63.23	-593.98	1,851.10	2,110.55	2,050.48	60.07	35.137	
6,100.00	5,808.37	5,551.95	5,159.63	29.96	41.23	63.97	-605.60	1,886.33	2,140.68	2,080.12	60.56	35.349	
6,200.00	5,908.37	5,745.69	5,338.86	30.04	42.51	65.38	-628.62	1,956.12	2,169.34	2,108.14	61.21	35.443	
6,300.00	6,008.37	5,970.20	5,552.17	30.12	43.69	66.65	-650.50	2,022.43	2,192.92	2,131.17	61.75	35.511	
6,400.00	6,108.37	6,205.16	5,780.55	30.20	44.63	67.60	-667.71	2,074.62	2,210.77	2,148.58	62.20	35.545	
6,500.00	6,208.37	6,447.98	6,020.47	30.28	45.27	68.22	-679.28	2,109.69	2,222.44	2,159.90	62.55	35.532	
6,600.00	6,308.37	6,695.43	6,267.29	30.36	45.63	68.50	-684.48	2,125.46	2,227.60	2,164.76	62.84	35.448	
6,700.00	6,408.37	6,836.52	6,408.37	30.45	45.73	68.51	-684.74	2,126.24	2,227.86	2,164.82	63.04	35.339	
6,800.00	6,508.37	6,936.52	6,508.37	30.54	45.79	68.51	-684.74	2,126.24	2,227.86	2,164.65	63.21	35.244	
6,900.00	6,608.37	7,036.52	6,608.37	30.62	45.86	68.51	-684.74	2,126.24	2,227.86	2,164.47	63.39	35.147	
7,000.00	6,708.37	7,136.52	6,708.37	30.71	45.93	68.51	-684.74	2,126.24	2,227.86	2,164.30	63.56	35.050	
7,100.00	6,808.37	7,236.52	6,808.37	30.80	45.99	68.51	-684.74	2,126.24	2,227.86	2,164.12	63.74	34.951	
7,200.00	6,908.37	7,336.52	6,908.37	30.90	46.06	68.51	-684.74	2,126.24	2,227.86	2,163.94	63.92	34.852	
7,300.00	7,008.37	7,436.52	7,008.37	30.99	46.13	68.51	-684.74	2,126.24	2,227.86	2,163.75	64.11	34.751	
7,400.00	7,108.37	7,536.52	7,108.37	31.08	46.20	68.51	-684.74	2,126.24	2,227.86	2,163.56	64.30	34.650	
7,500.00	7,208.37	7,636.52	7,208.37	31.18	46.27	68.51	-684.74	2,126.24	2,227.86	2,163.37	64.49	34.548	
7,600.00	7,308.37	7,736.52	7,308.37	31.28	46.35	68.51	-684.74	2,126.24	2,227.86	2,163.18	64.68	34.445	
7,700.00	7,408.37	7,836.52	7,408.37	31.38	46.42	68.51	-684.74	2,126.24	2,227.86	2,162.99	64.87	34.342	
7,800.00	7,508.37	7,936.52	7,508.37	31.48	46.50	68.51	-684.74	2,126.24	2,227.86	2,162.79	65.07	34.237	
7,900.00	7,608.37	8,036.52	7,608.37	31.58	46.57	68.51	-684.74	2,126.24	2,227.86	2,162.59	65.27	34.132	
8,000.00	7,708.37	8,136.52	7,708.37	31.68	46.65	68.51	-684.74	2,126.24	2,227.86	2,162.39	65.47	34.027	
8,100.00	7,808.37	8,236.52	7,808.37	31.79	46.72	68.51	-684.74	2,126.24	2,227.86	2,162.18	65.68	33.921	
8,208.63	7,917.00	8,345.15	7,917.00	31.90	46.81	68.51	-684.74	2,126.24	2,227.86	2,161.96	65.90	33.805	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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
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	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, ES	
300.00	299.98	299.76	299.74	0.52	0.52	-88.45	-1.59	17.50	17.44	16.39	1.04	16.715	
400.00	399.84	399.50	399.34	0.73	0.73	-89.66	-6.37	19.56	19.33	17.87	1.46	13.249	
500.00	499.45	499.19	498.65	0.97	0.98	-91.22	-14.32	23.00	22.50	20.55	1.95	11.554	
600.00	598.70	598.81	597.52	1.26	1.26	-92.76	-25.43	27.81	26.95	24.43	2.52	10.702	
700.00	697.47	698.33	695.82	1.60	1.60	-94.11	-39.68	33.96	32.69	29.50	3.18	10.264	
800.00	795.62	797.73	793.40	1.99	1.99	-95.21	-57.03	41.46	39.70	35.74	3.96	10.035	
900.00	893.06	896.99	890.13	2.43	2.43	-96.06	-77.44	50.29	47.97	43.13	4.84	9.912	
1,000.00	989.64	996.08	985.88	2.93	2.93	-96.70	-100.87	60.42	57.49	51.66	5.84	9.846	
1,100.00	1,085.27	1,094.99	1,080.51	3.50	3.49	-97.19	-127.28	71.84	68.26	61.30	6.96	9.809	
1,200.00	1,179.82	1,193.70	1,173.90	4.12	4.12	-97.54	-156.61	84.52	80.24	72.04	8.20	9.788	
1,300.00	1,273.17	1,292.19	1,265.93	4.80	4.80	-97.78	-188.79	98.43	93.42	83.87	9.56	9.775	
1,400.00	1,365.21	1,390.45	1,356.48	5.54	5.54	-97.94	-223.78	113.56	107.79	96.76	11.03	9.769	
1,445.11	1,406.28	1,435.02	1,397.25	5.90	5.89	-98.15	-240.33	120.71	114.59	102.85	11.74	9.763	
1,500.00	1,456.07	1,489.26	1,446.85	6.34	6.32	-98.71	-260.46	129.42	122.94	110.33	12.61	9.752	
1,600.00	1,546.77	1,588.07	1,537.22	7.15	7.11	-99.57	-297.15	145.28	138.17	123.97	14.20	9.731	
1,700.00	1,637.47	1,686.89	1,627.59	7.96	7.90	-100.25	-333.84	161.14	153.42	137.62	15.80	9.711	
1,800.00	1,728.17	1,785.70	1,717.96	8.78	8.70	-100.81	-370.52	177.00	168.70	151.29	17.41	9.692	
1,900.00	1,818.88	1,884.52	1,808.33	9.59	9.50	-101.28	-407.21	192.86	183.98	164.97	19.02	9.675	
2,000.00	1,909.58	1,983.33	1,898.70	10.42	10.30	-101.67	-443.90	208.72	199.28	178.65	20.63	9.660	
2,100.00	2,000.28	2,082.15	1,989.07	11.24	11.11	-102.01	-480.58	224.58	214.58	192.34	22.24	9.647	
2,200.00	2,090.98	2,180.96	2,079.44	12.06	11.91	-102.31	-517.27	240.44	229.89	206.03	23.86	9.635	
2,300.00	2,181.69	2,279.77	2,169.81	12.89	12.72	-102.56	-553.96	256.31	245.21	219.73	25.48	9.624	
2,400.00	2,272.39	2,378.59	2,260.18	13.71	13.53	-102.79	-590.64	272.17	260.53	233.43	27.10	9.615	
2,500.00	2,363.09	2,477.40	2,350.56	14.54	14.33	-102.99	-627.33	288.03	275.85	247.13	28.72	9.606	
2,600.00	2,453.80	2,576.22	2,440.93	15.36	15.14	-103.17	-664.02	303.89	291.17	260.84	30.34	9.598	
2,700.00	2,544.50	2,675.03	2,531.30	16.19	15.95	-103.34	-700.70	319.75	306.50	274.55	31.96	9.591	
2,800.00	2,635.20	2,773.85	2,621.67	17.02	16.76	-103.48	-737.39	335.61	321.83	288.25	33.58	9.585	
2,900.00	2,725.90	2,872.66	2,712.04	17.85	17.57	-103.62	-774.08	351.47	337.17	301.97	35.20	9.579	
3,000.00	2,816.61	2,971.48	2,802.41	18.68	18.38	-103.74	-810.76	367.33	352.50	315.68	36.82	9.573	
3,100.00	2,907.31	3,070.29	2,892.78	19.50	19.19	-103.85	-847.45	383.19	367.84	329.39	38.44	9.569	
3,200.00	2,998.01	3,169.11	2,983.15	20.33	20.00	-103.95	-884.14	399.05	383.17	343.11	40.06	9.564	
3,300.00	3,088.71	3,267.92	3,073.52	21.16	20.81	-104.05	-920.82	414.92	398.51	356.83	41.68	9.560	
3,400.00	3,179.42	3,366.74	3,163.89	21.99	21.62	-104.14	-957.51	430.78	413.85	370.54	43.31	9.557	
3,500.00	3,270.12	3,465.55	3,254.26	22.82	22.43	-104.22	-994.19	446.64	429.19	384.26	44.93	9.553	
3,600.00	3,360.82	3,564.37	3,344.63	23.65	23.24	-104.29	-1,030.88	462.50	444.53	397.98	46.55	9.550	
3,700.00	3,451.53	3,663.18	3,435.00	24.48	24.05	-104.36	-1,067.57	478.36	459.87	411.70	48.17	9.547	
3,746.52	3,493.72	3,709.15	3,477.04	24.87	24.43	-104.40	-1,084.63	485.74	467.01	418.09	48.92	9.546 SF	
3,800.00	3,542.44	3,762.01	3,525.39	25.24	24.86	-104.53	-1,104.26	494.22	475.09	425.36	49.73	9.553	
3,900.00	3,634.59	3,860.92	3,615.84	25.79	25.68	-104.46	-1,140.98	510.10	489.54	438.41	51.13	9.574	
4,000.00	3,728.05	3,959.78	3,706.26	26.31	26.49	-104.01	-1,177.69	525.97	503.18	450.67	52.52	9.581	
4,100.00	3,822.69	4,058.50	3,796.54	26.79	27.30	-103.21	-1,214.34	541.81	516.11	462.23	53.88	9.580	
4,200.00	3,918.40	4,156.94	3,886.57	27.24	28.11	-102.09	-1,250.88	557.61	528.48	473.29	55.19	9.576	
4,300.00	4,015.07	4,254.98	3,976.24	27.64	28.91	-100.67	-1,287.29	573.35	540.50	484.06	56.44	9.577	
4,400.00	4,112.56	4,352.52	4,065.44	28.00	29.71	-98.98	-1,323.50	589.01	552.42	494.82	57.60	9.591	
4,500.00	4,210.78	4,449.42	4,154.06	28.32	30.51	-97.05	-1,359.47	604.56	564.52	505.88	58.64	9.626	
4,600.00	4,309.59	4,545.57	4,241.99	28.59	31.30	-94.91	-1,395.17	619.99	577.15	517.59	59.55	9.691	
4,700.00	4,408.87	4,640.85	4,329.13	28.81	32.08	-92.59	-1,430.54	635.29	590.63	530.32	60.30	9.795	
4,800.00	4,508.51	4,735.15	4,415.37	28.98	32.86	-90.14	-1,465.55	650.42	605.33	544.46	60.87	9.945	
4,900.00	4,608.38	4,828.35	4,500.61	29.11	33.62	-87.57	-1,500.16	665.38	621.62	560.38	61.24	10.150	

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 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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
4,991.63	4,700.00	4,912.69	4,577.74	29.20	34.32	92.81	-1,531.47	678.92	638.26	576.84	61.42	10.392	
5,000.00	4,708.37	4,920.34	4,584.74	29.20	34.38	93.06	-1,534.31	680.15	639.87	578.45	61.42	10.418	
5,100.00	4,808.37	5,011.80	4,668.38	29.26	35.13	96.00	-1,568.26	694.83	660.15	598.80	61.35	10.760	
5,200.00	4,908.37	5,103.25	4,752.02	29.33	35.88	98.78	-1,602.22	709.51	682.23	621.05	61.18	11.151	
5,300.00	5,008.37	5,194.71	4,835.66	29.39	36.63	101.41	-1,636.17	724.19	705.93	645.00	60.93	11.585	
5,400.00	5,108.37	5,286.16	4,919.30	29.46	37.39	103.87	-1,670.13	738.87	731.11	670.48	60.63	12.059	
5,500.00	5,208.37	5,377.61	5,002.94	29.52	38.14	106.19	-1,704.08	753.55	757.61	697.32	60.29	12.567	
5,600.00	5,308.37	5,469.07	5,086.58	29.59	38.89	108.36	-1,738.03	768.23	785.30	725.38	59.92	13.106	
5,700.00	5,408.37	5,563.65	5,192.24	29.66	39.59	110.77	-1,778.70	785.81	812.78	753.49	59.29	13.707	
5,800.00	5,508.37	5,702.44	5,303.56	29.73	40.22	112.87	-1,816.73	802.25	838.33	779.61	58.71	14.278	
5,900.00	5,608.37	5,824.77	5,419.88	29.81	40.80	114.65	-1,851.44	817.25	861.51	803.30	58.21	14.800	
6,000.00	5,708.37	5,950.32	5,540.85	29.88	41.32	116.14	-1,882.28	830.59	881.97	824.17	57.81	15.258	
6,100.00	5,808.37	6,078.74	5,665.97	29.96	41.79	117.35	-1,908.77	842.04	899.41	841.91	57.50	15.641	
6,200.00	5,908.37	6,209.59	5,794.66	30.04	42.19	118.29	-1,930.43	851.41	913.56	856.26	57.30	15.943	
6,300.00	6,008.37	6,342.38	5,926.22	30.12	42.50	118.98	-1,946.88	858.52	924.24	867.04	57.20	16.159	
6,400.00	6,108.37	6,476.56	6,059.87	30.20	42.73	119.43	-1,957.80	863.24	931.30	874.10	57.20	16.281	
6,500.00	6,208.37	6,611.57	6,194.75	30.28	42.88	119.64	-1,962.98	865.48	934.63	877.33	57.31	16.309	
6,600.00	6,308.37	6,725.20	6,308.37	30.36	42.96	119.66	-1,963.42	865.67	934.92	877.43	57.49	16.262	
6,700.00	6,408.37	6,825.20	6,408.37	30.45	43.02	119.66	-1,963.42	865.67	934.92	877.25	57.66	16.214	
6,800.00	6,508.37	6,925.20	6,508.37	30.54	43.07	119.66	-1,963.42	865.67	934.92	877.08	57.84	16.165	
6,900.00	6,608.37	7,025.20	6,608.37	30.62	43.13	119.66	-1,963.42	865.67	934.92	876.90	58.01	16.116	
7,000.00	6,708.37	7,125.20	6,708.37	30.71	43.19	119.66	-1,963.42	865.67	934.92	876.72	58.19	16.066	
7,100.00	6,808.37	7,225.20	6,808.37	30.80	43.25	119.66	-1,963.42	865.67	934.92	876.54	58.37	16.016	
7,200.00	6,908.37	7,325.20	6,908.37	30.90	43.31	119.66	-1,963.42	865.67	934.92	876.36	58.56	15.965	
7,300.00	7,008.37	7,425.20	7,008.37	30.99	43.37	119.66	-1,963.42	865.67	934.92	876.17	58.75	15.914	
7,400.00	7,108.37	7,525.20	7,108.37	31.08	43.44	119.66	-1,963.42	865.67	934.92	875.98	58.94	15.862	
7,500.00	7,208.37	7,625.20	7,208.37	31.18	43.50	119.66	-1,963.42	865.67	934.92	875.78	59.13	15.810	
7,600.00	7,308.37	7,725.20	7,308.37	31.28	43.57	119.66	-1,963.42	865.67	934.92	875.59	59.33	15.758	
7,700.00	7,408.37	7,825.20	7,408.37	31.38	43.63	119.66	-1,963.42	865.67	934.92	875.39	59.53	15.705	
7,800.00	7,508.37	7,925.20	7,508.37	31.48	43.70	119.66	-1,963.42	865.67	934.92	875.18	59.73	15.652	
7,900.00	7,608.37	8,025.20	7,608.37	31.58	43.77	119.66	-1,963.42	865.67	934.92	874.98	59.94	15.598	
8,000.00	7,708.37	8,125.20	7,708.37	31.68	43.84	119.66	-1,963.42	865.67	934.92	874.77	60.14	15.544	
8,100.00	7,808.37	8,225.20	7,808.37	31.79	43.91	119.66	-1,963.42	865.67	934.92	874.56	60.35	15.490	
8,208.63	7,917.00	8,333.83	7,917.00	31.90	43.99	119.66	-1,963.42	865.67	934.92	874.33	60.59	15.431	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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)	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	-32.36	57.91	-36.70	71.14				
100.00	100.00	81.00	81.00	0.10	1.62	-32.36	57.91	-36.70	68.56	66.84	1.72	39.963	
200.00	200.00	181.00	181.00	0.32	5.24	-32.36	57.91	-36.70	68.56	63.00	5.56	12.330 CC	
300.00	299.98	280.98	280.98	0.52	9.24	150.38	57.91	-36.70	70.07	60.32	9.76	7.182 ES	
400.00	399.84	380.84	380.84	0.73	13.23	152.32	57.91	-36.70	74.67	60.74	13.93	5.360	
500.00	499.45	480.45	480.45	0.97	17.22	155.06	57.91	-36.70	82.49	64.40	18.08	4.562	
600.00	598.70	579.70	579.70	1.26	21.19	158.12	57.91	-36.70	93.69	71.50	22.18	4.223	
700.00	697.47	678.47	678.47	1.60	25.14	161.10	57.91	-36.70	108.38	82.16	26.21	4.134 SF	
800.00	795.62	776.62	776.62	1.99	29.06	163.79	57.91	-36.70	126.60	96.46	30.15	4.199	
900.00	893.06	874.06	874.06	2.43	32.96	166.11	57.91	-36.70	148.37	114.40	33.97	4.368	
1,000.00	989.64	970.64	970.64	2.93	36.83	168.05	57.91	-36.70	173.64	135.98	37.66	4.611	
1,100.00	1,085.27	1,066.27	1,066.27	3.50	40.65	169.65	57.91	-36.70	202.37	161.17	41.21	4.911	
1,200.00	1,179.82	1,160.82	1,160.82	4.12	44.43	170.97	57.91	-36.70	234.51	189.92	44.59	5.259	
1,300.00	1,273.17	1,254.17	1,254.17	4.80	48.17	172.06	57.91	-36.70	270.01	222.20	47.80	5.648	
1,400.00	1,365.21	1,346.21	1,346.21	5.54	51.85	172.96	57.91	-36.70	308.80	257.97	50.83	6.075	
1,445.11	1,406.28	1,387.28	1,387.28	5.90	53.49	173.31	57.91	-36.70	327.36	275.23	52.13	6.280	
1,500.00	1,456.07	1,437.07	1,437.07	6.34	55.48	173.75	57.91	-36.70	350.35	296.23	54.12	6.474	
1,600.00	1,546.77	1,527.77	1,527.77	7.15	59.11	174.42	57.91	-36.70	392.27	334.52	57.75	6.793	
1,700.00	1,637.47	1,618.47	1,618.47	7.96	62.74	174.96	57.91	-36.70	434.23	372.84	61.39	7.074	
1,800.00	1,728.17	1,709.17	1,709.17	8.78	66.37	175.41	57.91	-36.70	476.22	411.19	65.03	7.323	
1,900.00	1,818.88	1,799.88	1,799.88	9.59	70.00	175.78	57.91	-36.70	518.22	449.55	68.67	7.546	
2,000.00	1,909.58	1,890.58	1,890.58	10.42	73.62	176.09	57.91	-36.70	560.24	487.92	72.32	7.747	
2,100.00	2,000.28	1,981.28	1,981.28	11.24	77.25	176.37	57.91	-36.70	602.27	526.30	75.97	7.928	
2,200.00	2,090.98	2,071.98	2,071.98	12.06	80.88	176.60	57.91	-36.70	644.32	564.69	79.62	8.092	
2,300.00	2,181.69	2,162.69	2,162.69	12.89	84.51	176.81	57.91	-36.70	686.37	603.09	83.27	8.242	
2,400.00	2,272.39	2,253.39	2,253.39	13.71	88.14	177.00	57.91	-36.70	728.42	641.49	86.93	8.380	
2,500.00	2,363.09	2,344.09	2,344.09	14.54	91.76	177.16	57.91	-36.70	770.48	679.90	90.58	8.506	
2,600.00	2,453.80	2,434.80	2,434.80	15.36	95.39	177.31	57.91	-36.70	812.55	718.31	94.24	8.622	
2,700.00	2,544.50	2,525.50	2,525.50	16.19	99.02	177.44	57.91	-36.70	854.62	756.72	97.90	8.730	
2,800.00	2,635.20	2,616.20	2,616.20	17.02	102.65	177.56	57.91	-36.70	896.70	795.14	101.56	8.830	
2,900.00	2,725.90	2,706.90	2,706.90	17.85	106.28	177.67	57.91	-36.70	938.77	833.56	105.21	8.922	
3,000.00	2,816.61	2,797.61	2,797.61	18.68	109.90	177.77	57.91	-36.70	980.85	871.98	108.87	9.009	
3,100.00	2,907.31	2,888.31	2,888.31	19.50	113.53	177.86	57.91	-36.70	1,022.94	910.40	112.53	9.090	
3,200.00	2,998.01	2,979.01	2,979.01	20.33	117.16	177.95	57.91	-36.70	1,065.02	948.83	116.19	9.166	
3,300.00	3,088.71	3,069.71	3,069.71	21.16	120.79	178.02	57.91	-36.70	1,107.10	987.25	119.85	9.237	
3,400.00	3,179.42	3,160.42	3,160.42	21.99	124.42	178.10	57.91	-36.70	1,149.19	1,025.68	123.51	9.304	
3,500.00	3,270.12	3,251.12	3,251.12	22.82	128.04	178.16	57.91	-36.70	1,191.28	1,064.11	127.17	9.367	
3,600.00	3,360.82	3,341.82	3,341.82	23.65	131.67	178.23	57.91	-36.70	1,233.37	1,102.54	130.84	9.427	
3,700.00	3,451.53	3,432.53	3,432.53	24.48	135.30	178.29	57.91	-36.70	1,275.46	1,140.97	134.50	9.483	
3,746.52	3,493.72	3,474.72	3,474.72	24.87	136.99	178.31	57.91	-36.70	1,295.04	1,158.84	136.20	9.508	
3,800.00	3,542.44	3,523.44	3,523.44	25.24	138.94	178.35	57.91	-36.70	1,317.10	1,177.90	139.20	9.462	
3,900.00	3,634.59	3,615.59	3,615.59	25.79	142.62	178.42	57.91	-36.70	1,355.89	1,211.09	144.80	9.364	
4,000.00	3,728.05	3,709.05	3,709.05	26.31	146.36	178.48	57.91	-36.70	1,391.44	1,241.05	150.39	9.252	
4,100.00	3,822.69	3,803.69	3,803.69	26.79	150.15	178.54	57.91	-36.70	1,423.71	1,267.80	155.91	9.132	
4,200.00	3,918.40	3,899.40	3,899.40	27.24	153.98	178.58	57.91	-36.70	1,452.66	1,291.31	161.35	9.003	
4,300.00	4,015.07	3,996.07	3,996.07	27.64	157.84	178.62	57.91	-36.70	1,478.25	1,311.57	166.68	8.869	
4,400.00	4,112.56	4,093.56	4,093.56	28.00	161.74	178.65	57.91	-36.70	1,500.45	1,328.56	171.89	8.729	
4,500.00	4,210.78	4,191.78	4,191.78	28.32	165.67	178.67	57.91	-36.70	1,519.24	1,342.28	176.96	8.585	
4,600.00	4,309.59	4,290.59	4,290.59	28.59	169.62	178.70	57.91	-36.70	1,534.59	1,352.72	181.87	8.438	
4,700.00	4,408.87	4,389.87	4,389.87	28.81	173.59	178.71	57.91	-36.70	1,546.48	1,359.89	186.59	8.288	
4,800.00	4,508.51	4,489.51	4,489.51	28.98	177.58	178.72	57.91	-36.70	1,554.91	1,363.79	191.12	8.136	
4,900.00	4,608.38	4,589.38	4,589.38	29.11	181.58	178.73	57.91	-36.70	1,559.85	1,364.43	195.42	7.982	

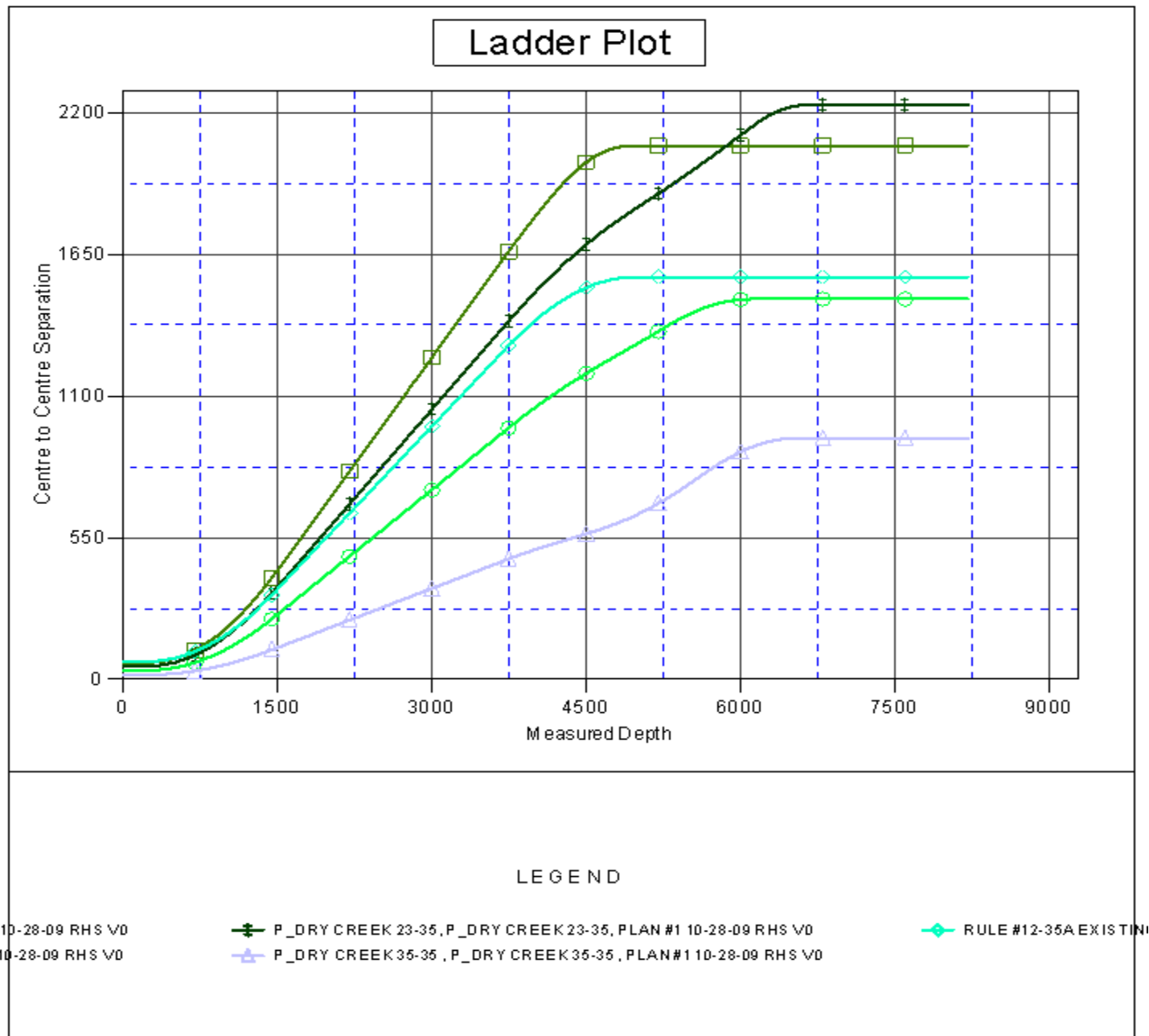
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,991.63	4,700.00	4,681.00	4,681.00	29.20	185.24	-3.30	57.91	-36.70	1,561.31	1,362.15	199.16	7.840	
5,000.00	4,708.37	4,689.37	4,689.37	29.20	185.57	-3.30	57.91	-36.70	1,561.31	1,361.81	199.50	7.826	
5,100.00	4,808.37	4,789.37	4,789.37	29.26	189.57	-3.30	57.91	-36.70	1,561.31	1,357.68	203.63	7.667	
5,200.00	4,908.37	4,889.37	4,889.37	29.33	193.57	-3.30	57.91	-36.70	1,561.31	1,353.54	207.77	7.515	
5,300.00	5,008.37	4,989.37	4,989.37	29.39	197.57	-3.30	57.91	-36.70	1,561.31	1,349.41	211.90	7.368	
5,400.00	5,108.37	5,089.37	5,089.37	29.46	201.57	-3.30	57.91	-36.70	1,561.31	1,345.27	216.04	7.227	
5,500.00	5,208.37	5,189.37	5,189.37	29.52	205.57	-3.30	57.91	-36.70	1,561.31	1,341.13	220.18	7.091	
5,600.00	5,308.37	5,289.37	5,289.37	29.59	209.57	-3.30	57.91	-36.70	1,561.31	1,336.99	224.32	6.960	
5,700.00	5,408.37	5,389.37	5,389.37	29.66	213.57	-3.30	57.91	-36.70	1,561.31	1,332.85	228.47	6.834	
5,800.00	5,508.37	5,489.37	5,489.37	29.73	217.57	-3.30	57.91	-36.70	1,561.31	1,328.70	232.61	6.712	
5,900.00	5,608.37	5,589.37	5,589.37	29.81	221.57	-3.30	57.91	-36.70	1,561.31	1,324.55	236.76	6.595	
6,000.00	5,708.37	5,689.37	5,689.37	29.88	225.57	-3.30	57.91	-36.70	1,561.31	1,320.40	240.91	6.481	
6,100.00	5,808.37	5,789.37	5,789.37	29.96	229.57	-3.30	57.91	-36.70	1,561.31	1,316.25	245.06	6.371	
6,200.00	5,908.37	5,889.37	5,889.37	30.04	233.57	-3.30	57.91	-36.70	1,561.31	1,312.10	249.21	6.265	
6,300.00	6,008.37	5,989.37	5,989.37	30.12	237.57	-3.30	57.91	-36.70	1,561.31	1,307.94	253.37	6.162	
6,400.00	6,108.37	6,089.37	6,089.37	30.20	241.57	-3.30	57.91	-36.70	1,561.31	1,303.79	257.52	6.063	
6,500.00	6,208.37	6,189.37	6,189.37	30.28	245.57	-3.30	57.91	-36.70	1,561.31	1,299.63	261.68	5.966	
6,600.00	6,308.37	6,289.37	6,289.37	30.36	249.57	-3.30	57.91	-36.70	1,561.31	1,295.47	265.84	5.873	
6,700.00	6,408.37	6,389.37	6,389.37	30.45	253.57	-3.30	57.91	-36.70	1,561.31	1,291.31	270.00	5.783	
6,800.00	6,508.37	6,489.37	6,489.37	30.54	257.57	-3.30	57.91	-36.70	1,561.31	1,287.14	274.17	5.695	
6,900.00	6,608.37	6,589.37	6,589.37	30.62	261.57	-3.30	57.91	-36.70	1,561.31	1,282.98	278.33	5.610	
7,000.00	6,708.37	6,689.37	6,689.37	30.71	265.57	-3.30	57.91	-36.70	1,561.31	1,278.81	282.50	5.527	
7,100.00	6,808.37	6,789.37	6,789.37	30.80	269.57	-3.30	57.91	-36.70	1,561.31	1,274.65	286.66	5.446	
7,200.00	6,908.37	6,889.37	6,889.37	30.90	273.57	-3.30	57.91	-36.70	1,561.31	1,270.48	290.83	5.368	
7,300.00	7,008.37	6,989.37	6,989.37	30.99	277.57	-3.30	57.91	-36.70	1,561.31	1,266.31	295.00	5.293	
7,400.00	7,108.37	7,089.37	7,089.37	31.08	281.57	-3.30	57.91	-36.70	1,561.31	1,262.14	299.17	5.219	
7,500.00	7,208.37	7,189.37	7,189.37	31.18	285.57	-3.30	57.91	-36.70	1,561.31	1,257.97	303.34	5.147	
7,600.00	7,308.37	7,289.37	7,289.37	31.28	289.57	-3.30	57.91	-36.70	1,561.31	1,253.79	307.52	5.077	
7,700.00	7,408.37	7,389.37	7,389.37	31.38	293.57	-3.30	57.91	-36.70	1,561.31	1,249.62	311.69	5.009	
7,800.00	7,508.37	7,489.37	7,489.37	31.48	297.57	-3.30	57.91	-36.70	1,561.31	1,245.44	315.87	4.943	
7,900.00	7,608.37	7,589.37	7,589.37	31.58	301.57	-3.30	57.91	-36.70	1,561.31	1,241.27	320.04	4.878	
8,000.00	7,708.37	7,689.37	7,689.37	31.68	305.57	-3.30	57.91	-36.70	1,561.31	1,237.09	324.22	4.816	
8,100.00	7,808.37	7,789.37	7,789.37	31.79	309.57	-3.30	57.91	-36.70	1,561.31	1,232.91	328.40	4.754	
8,208.63	7,917.00	7,898.00	7,898.00	31.90	313.92	-3.30	57.91	-36.70	1,561.31	1,228.37	332.94	4.689	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 13-35
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 13-35	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 13-35	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 13-35
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 13-35
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
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Reference Design:	PLAN #1 10-28-09 RHS	Offset TVD Reference:	Offset Datum

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