



US ROCKIES REGION PLANNING

KERR MCGEE OIL & GAS ONSHORE LP

WELD_DRY CREEK PAD 7

P_DRY CREEK 25-27

P_DRY CREEK 25-27

Plan: PLAN #1 10-26-09 RHS

Standard Planning Report

26 October, 2009





WELL DETAILS: P_DRY CREEK 25-27						
+N/-S	+E/-W	Northing	Ground Level: Easting	5008.00	Latitude	Longitude
0.00	0.00	1252969.27	3173193.20	40° 1' 34.068 N	104° 52' 53.580 W	Slot

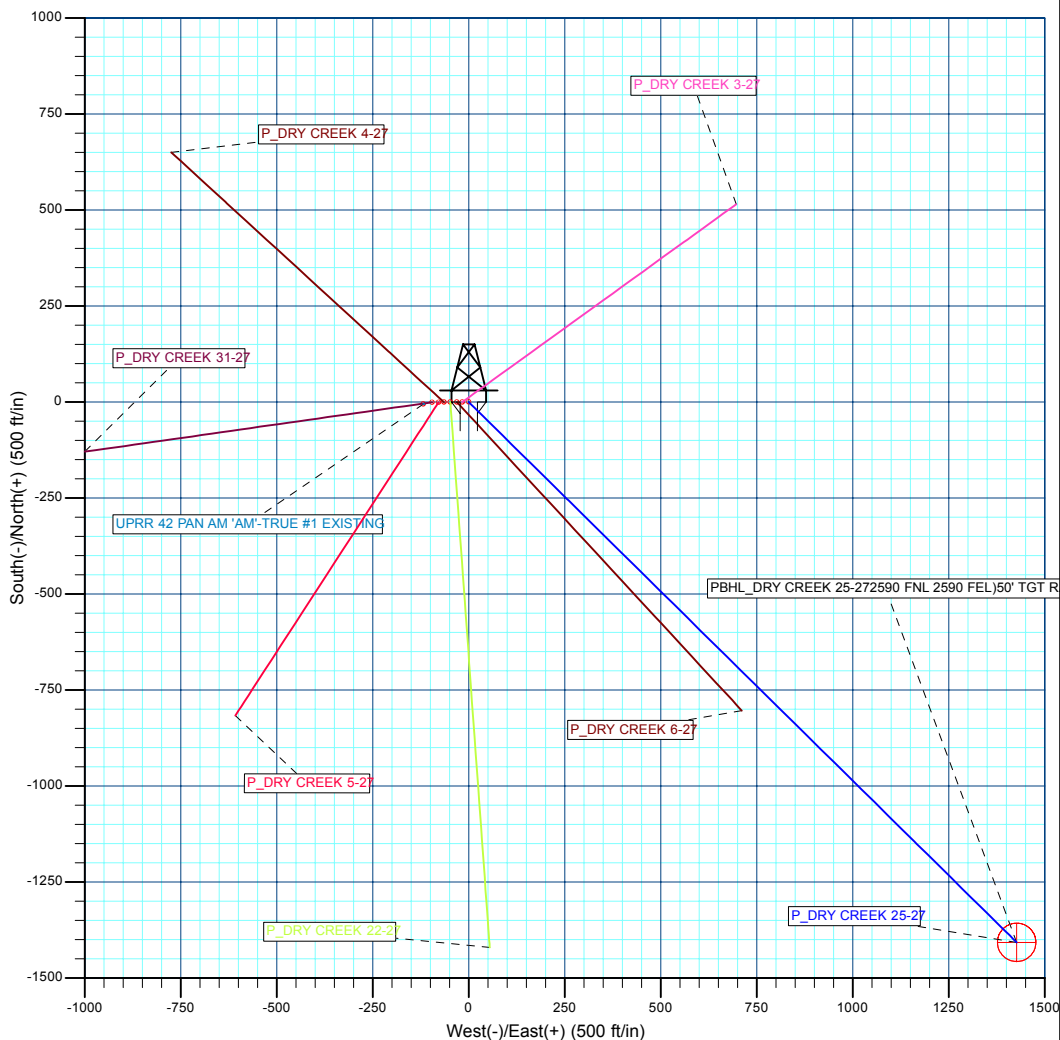
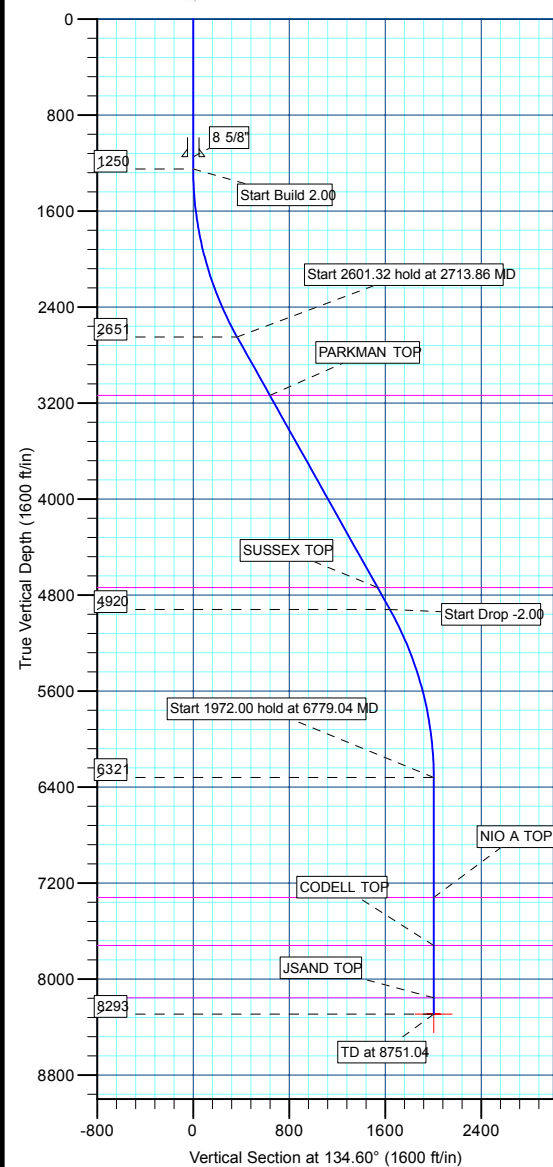
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3137.00	3271.05	PARKMAN TOP
4739.00	5107.65	SUSSEX TOP
7321.00	7779.04	NIO A TOP
7721.00	8179.04	CODELL TOP
8158.00	8616.04	JSAND TOP

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00	0.00	
2713.86	29.28	134.60	2650.98	-256.93	260.57	2.00	134.60	365.94	
5315.18	29.28	134.60	4920.02	-1150.13	1166.40	0.00	0.00	1638.07	
6779.04	0.00	0.00	6321.00	-1407.06	1426.97	2.00	180.00	2004.01	
8751.04	0.00	0.00	8293.00	-1407.06	1426.97	0.00	0.00	2004.01	PBHL_DRY CREEK 25-272590 FNL 2590 FEL)50' TGT RAD

CASING DETAILS			
TVD	MD	Name	Size
1150.00	1150.00	8 5/8"	8.62



KB ELEV: WELL @ 5023.00ft (Original Well Elev)
 GRD ELEV: 5008.00



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8293.00	-1407.06	1426.97	1251562.21	3174620.16	40° 1' 20.064 N	104° 52' 35.364 W	Circle (Radius: 50.00)

Plan: PLAN #1 10-26-09 RHS (P_DRY CREEK 25-27/P_DRY CREEK 25-27)

Created By: Robert H. Scott

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 7	North Reference:	Grid
Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 25-27		
Design:	PLAN #1 10-26-09 RHS		

Project	KERR MCGEE OIL & GAS ONSHORE LP, KERR MCGEE OIL & GAS ONSHORE LP		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site						WELD_DRY CREEK PAD 7, SECTION 27 T1N R67W					
Site Position:				Northing:		1,252,969.16 ft		Latitude:		40° 1' 34.068 N	
From:		Lat/Long		Easting:		3,173,176.40 ft		Longitude:		104° 52' 53.796 W	
Position Uncertainty:		0.00 ft		Slot Radius:		in		Grid Convergence:		0.40 °	

Well	P_DRY CREEK 25-27					
Well Position	+N/-S	0.10 ft	Northing:	1,252,969.27 ft	Latitude:	40° 1' 34.068 N
	+E/-W	16.80 ft	Easting:	3,173,193.20 ft	Longitude:	104° 52' 53.580 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,008.00 ft

Wellbore	P_DRY CREEK 25-27				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/26/2009	9.08	66.79	53,112

Design	PLAN #1 10-26-09 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	134.60

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,250.00	0.00	0.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,713.86	29.28	134.60	2,650.98	-256.93	260.57	2.00	2.00	0.00	134.60	
5,315.18	29.28	134.60	4,920.02	-1,150.13	1,166.40	0.00	0.00	0.00	0.00	
6,779.04	0.00	0.00	6,321.00	-1,407.06	1,426.97	2.00	-2.00	0.00	180.00	
8,751.04	0.00	0.00	8,293.00	-1,407.06	1,426.97	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 25-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 7	North Reference:	Grid
Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 25-27		
Design:	PLAN #1 10-26-09 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build 2.00									
1,250.00	0.00	0.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	1.00	134.60	1,300.00	-0.31	0.31	0.44	2.00	2.00	0.00
1,400.00	3.00	134.60	1,399.93	-2.76	2.80	3.93	2.00	2.00	0.00
1,500.00	5.00	134.60	1,499.68	-7.65	7.76	10.90	2.00	2.00	0.00
1,600.00	7.00	134.60	1,599.13	-14.99	15.21	21.35	2.00	2.00	0.00
1,700.00	9.00	134.60	1,698.15	-24.76	25.11	35.27	2.00	2.00	0.00
1,800.00	11.00	134.60	1,796.63	-36.96	37.48	52.63	2.00	2.00	0.00
1,900.00	13.00	134.60	1,894.44	-51.55	52.28	73.42	2.00	2.00	0.00
2,000.00	15.00	134.60	1,991.46	-68.54	69.51	97.62	2.00	2.00	0.00
2,100.00	17.00	134.60	2,087.58	-87.89	89.13	125.18	2.00	2.00	0.00
2,200.00	19.00	134.60	2,182.68	-109.59	111.14	156.08	2.00	2.00	0.00
2,300.00	21.00	134.60	2,276.65	-133.60	135.49	190.28	2.00	2.00	0.00
2,400.00	23.00	134.60	2,369.36	-159.90	162.16	227.74	2.00	2.00	0.00
2,500.00	25.00	134.60	2,460.71	-188.46	191.12	268.41	2.00	2.00	0.00
2,600.00	27.00	134.60	2,550.59	-219.23	222.33	312.24	2.00	2.00	0.00
2,700.00	29.00	134.60	2,638.88	-252.19	255.76	359.19	2.00	2.00	0.00
Start 2601.32 hold at 2713.86 MD									
2,713.86	29.28	134.60	2,650.98	-256.93	260.57	365.94	2.00	2.00	0.00
2,800.00	29.28	134.60	2,726.12	-286.51	290.56	408.06	0.00	0.00	0.00
2,900.00	29.28	134.60	2,813.35	-320.85	325.39	456.97	0.00	0.00	0.00
3,000.00	29.28	134.60	2,900.57	-355.18	360.21	505.87	0.00	0.00	0.00
3,100.00	29.28	134.60	2,987.80	-389.52	395.03	554.77	0.00	0.00	0.00
3,200.00	29.28	134.60	3,075.03	-423.86	429.85	603.68	0.00	0.00	0.00
PARKMAN TOP									
3,271.05	29.28	134.60	3,137.00	-448.25	454.59	638.42	0.00	0.00	0.00
3,300.00	29.28	134.60	3,162.25	-458.19	464.67	652.58	0.00	0.00	0.00
3,400.00	29.28	134.60	3,249.48	-492.53	499.50	701.48	0.00	0.00	0.00
3,500.00	29.28	134.60	3,336.70	-526.86	534.32	750.39	0.00	0.00	0.00
3,600.00	29.28	134.60	3,423.93	-561.20	569.14	799.29	0.00	0.00	0.00
3,700.00	29.28	134.60	3,511.16	-595.54	603.96	848.19	0.00	0.00	0.00
3,800.00	29.28	134.60	3,598.38	-629.87	638.78	897.10	0.00	0.00	0.00
3,900.00	29.28	134.60	3,685.61	-664.21	673.61	946.00	0.00	0.00	0.00
4,000.00	29.28	134.60	3,772.84	-698.55	708.43	994.90	0.00	0.00	0.00
4,100.00	29.28	134.60	3,860.06	-732.88	743.25	1,043.81	0.00	0.00	0.00
4,200.00	29.28	134.60	3,947.29	-767.22	778.07	1,092.71	0.00	0.00	0.00
4,300.00	29.28	134.60	4,034.52	-801.55	812.89	1,141.62	0.00	0.00	0.00
4,400.00	29.28	134.60	4,121.74	-835.89	847.72	1,190.52	0.00	0.00	0.00
4,500.00	29.28	134.60	4,208.97	-870.23	882.54	1,239.42	0.00	0.00	0.00
4,600.00	29.28	134.60	4,296.20	-904.56	917.36	1,288.33	0.00	0.00	0.00
4,700.00	29.28	134.60	4,383.42	-938.90	952.18	1,337.23	0.00	0.00	0.00
4,800.00	29.28	134.60	4,470.65	-973.24	987.00	1,386.13	0.00	0.00	0.00
4,900.00	29.28	134.60	4,557.87	-1,007.57	1,021.83	1,435.04	0.00	0.00	0.00
5,000.00	29.28	134.60	4,645.10	-1,041.91	1,056.65	1,483.94	0.00	0.00	0.00
5,100.00	29.28	134.60	4,732.33	-1,076.24	1,091.47	1,532.84	0.00	0.00	0.00
SUSSEX TOP									
5,107.65	29.28	134.60	4,739.00	-1,078.87	1,094.13	1,536.58	0.00	0.00	0.00
5,200.00	29.28	134.60	4,819.55	-1,110.58	1,126.29	1,581.75	0.00	0.00	0.00
5,300.00	29.28	134.60	4,906.78	-1,144.92	1,161.11	1,630.65	0.00	0.00	0.00
Start Drop -2.00									
5,315.18	29.28	134.60	4,920.02	-1,150.13	1,166.40	1,638.07	0.00	0.00	0.00
5,400.00	27.58	134.60	4,994.61	-1,178.48	1,195.15	1,678.45	2.00	-2.00	0.00
5,500.00	25.58	134.60	5,084.04	-1,209.90	1,227.01	1,723.20	2.00	-2.00	0.00

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Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 7	North Reference:	Grid
Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 25-27		
Design:	PLAN #1 10-26-09 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)
5,600.00	23.58	134.60	5,174.97	-1,239.10	1,256.63	1,764.79	2.00	-2.00	0.00
5,700.00	21.58	134.60	5,267.30	-1,266.06	1,283.97	1,803.19	2.00	-2.00	0.00
5,800.00	19.58	134.60	5,360.91	-1,290.74	1,309.00	1,838.34	2.00	-2.00	0.00
5,900.00	17.58	134.60	5,455.69	-1,313.11	1,331.69	1,870.20	2.00	-2.00	0.00
6,000.00	15.58	134.60	5,551.53	-1,333.15	1,352.01	1,898.74	2.00	-2.00	0.00
6,100.00	13.58	134.60	5,648.31	-1,350.82	1,369.93	1,923.91	2.00	-2.00	0.00
6,200.00	11.58	134.60	5,745.90	-1,366.11	1,385.44	1,945.69	2.00	-2.00	0.00
6,300.00	9.58	134.60	5,844.19	-1,379.01	1,398.51	1,964.05	2.00	-2.00	0.00
6,400.00	7.58	134.60	5,943.07	-1,389.48	1,409.14	1,978.97	2.00	-2.00	0.00
6,500.00	5.58	134.60	6,042.41	-1,397.53	1,417.30	1,990.43	2.00	-2.00	0.00
6,600.00	3.58	134.60	6,142.08	-1,403.13	1,422.98	1,998.42	2.00	-2.00	0.00
6,700.00	1.58	134.60	6,241.97	-1,406.30	1,426.19	2,002.92	2.00	-2.00	0.00
Start 1972.00 hold at 6779.04 MD									
6,779.04	0.00	0.00	6,321.00	-1,407.06	1,426.97	2,004.01	2.00	-2.00	-170.30
6,800.00	0.00	0.00	6,341.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
6,900.00	0.00	0.00	6,441.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,000.00	0.00	0.00	6,541.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,100.00	0.00	0.00	6,641.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,200.00	0.00	0.00	6,741.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,300.00	0.00	0.00	6,841.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,400.00	0.00	0.00	6,941.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,500.00	0.00	0.00	7,041.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,600.00	0.00	0.00	7,141.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,700.00	0.00	0.00	7,241.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
NIO A TOP									
7,779.04	0.00	0.00	7,321.00	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,800.00	0.00	0.00	7,341.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
7,900.00	0.00	0.00	7,441.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,000.00	0.00	0.00	7,541.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,100.00	0.00	0.00	7,641.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
CODELL TOP									
8,179.04	0.00	0.00	7,721.00	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,200.00	0.00	0.00	7,741.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,300.00	0.00	0.00	7,841.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,400.00	0.00	0.00	7,941.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,500.00	0.00	0.00	8,041.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,600.00	0.00	0.00	8,141.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
JSAND TOP									
8,616.04	0.00	0.00	8,158.00	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
8,700.00	0.00	0.00	8,241.96	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00
PBHL_DRY CREEK 25-272590 FNL 2590 FEL)50' TGT RAD									
8,751.04	0.00	0.00	8,293.00	-1,407.06	1,426.97	2,004.01	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_DRY CREEK 2	0.00	0.00	8,293.00	-1,407.06	1,426.97	1,251,562.21	3,174,620.16	40° 1' 20.064 N	104° 52' 35.364 W
- plan hits target center									
- Circle (radius 50.00)									

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site:	WELD_DRY CREEK PAD 7	North Reference:	Grid
Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_DRY CREEK 25-27		
Design:	PLAN #1 10-26-09 RHS		

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,271.05	3,137.00	PARKMAN TOP				
5,107.65	4,739.00	SUSSEX TOP				
7,779.04	7,321.00	NIO A TOP				
8,179.04	7,721.00	CODELL TOP				
8,616.04	8,158.00	JSAND TOP				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,250.00	1,250.00	0.00	0.00	Start Build 2.00	
2,713.86	2,650.98	-256.93	260.57	Start 2601.32 hold at 2713.86 MD	
5,315.18	4,920.02	-1,150.13	1,166.40	Start Drop -2.00	
6,779.04	6,321.00	-1,407.06	1,426.97	Start 1972.00 hold at 6779.04 MD	
8,751.04	8,293.00	-1,407.06	1,426.97	TD at 8751.04	



US ROCKIES REGION PLANNING

**KERR MCGEE OIL & GAS ONSHORE LP
WELD_DRY CREEK PAD 7
P_DRY CREEK 25-27**

**P_DRY CREEK 25-27
PLAN #1 10-26-09 RHS**

Anticollision Report

26 October, 2009



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Reference	PLAN #1 10-26-09 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 10/26/2009				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	8,751.04	PLAN #1 10-26-09 RHS (P_DRY CREEK	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
WELD_DRY CREEK PAD 7						
P_DRY CREEK 22-27 - P_DRY CREEK 22-27 - PLAN #	1,250.00	1,250.00	47.61	42.25	8.881	CC, ES
P_DRY CREEK 22-27 - P_DRY CREEK 22-27 - PLAN #	1,400.00	1,400.11	50.14	44.24	8.492	SF
P_DRY CREEK 31-27 - P_DRY CREEK 31-27 - PLAN #	1,250.00	1,250.00	95.22	91.89	28.619	CC, ES
P_DRY CREEK 31-27 - P_DRY CREEK 31-27 - PLAN #	1,400.00	1,394.91	101.78	98.09	27.586	SF
P_DRY CREEK 3-27 - P_DRY CREEK 3-27 - PLAN #1 1	1,329.58	1,329.93	16.74	11.06	2.944	CC, ES
P_DRY CREEK 3-27 - P_DRY CREEK 3-27 - PLAN #1 1	1,400.00	1,400.55	17.14	11.18	2.876	SF
P_DRY CREEK 4-27 - P_DRY CREEK 4-27 - PLAN #1 1	1,250.00	1,250.00	64.41	59.05	12.015	CC, ES
P_DRY CREEK 4-27 - P_DRY CREEK 4-27 - PLAN #1 1	1,300.00	1,299.18	65.04	59.47	11.680	SF
P_DRY CREEK 5-27 - P_DRY CREEK 5-27 - PLAN #1 1	1,250.00	1,250.00	78.41	73.05	14.627	CC, ES
P_DRY CREEK 5-27 - P_DRY CREEK 5-27 - PLAN #1 1	1,400.00	1,397.62	83.32	77.41	14.109	SF
P_DRY CREEK 6-27 - P_DRY CREEK 6-27 - PLAN #1 1	1,250.00	1,250.00	30.81	25.44	5.747	CC
P_DRY CREEK 6-27 - P_DRY CREEK 6-27 - PLAN #1 1	1,700.00	1,703.26	31.85	24.75	4.486	ES
P_DRY CREEK 6-27 - P_DRY CREEK 6-27 - PLAN #1 1	3,500.00	3,509.01	69.75	40.74	2.404	SF
UPRR 42 PAN AM 'AM-TRUE #1 EXISTING - UPRR 42	1,250.00	1,250.00	118.26	67.88	2.347	CC
UPRR 42 PAN AM 'AM-TRUE #1 EXISTING - UPRR 42	1,400.00	1,399.93	120.97	64.34	2.136	ES
UPRR 42 PAN AM 'AM-TRUE #1 EXISTING - UPRR 42	1,600.00	1,599.13	133.71	68.95	2.065	SF

Offset Design										WELD_DRY CREEK PAD 7 - P_DRY CREEK 22-27 - P_DRY CREEK 22-27 - PLAN #1 10-26-09 RHS				Offset Site Error:		0.00 ft	
Survey Program: 0-MWD														Offset Well Error:		0.00 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
0.00	0.00	0.00	0.00	0.00	0.00	-90.40	-0.34	-47.61	47.61								
100.00	100.00	100.00	100.00	0.10	0.10	-90.40	-0.34	-47.61	47.61	47.42	0.19	249.189					
200.00	200.00	200.00	200.00	0.32	0.32	-90.40	-0.34	-47.61	47.61	46.97	0.64	74.320					
300.00	300.00	300.00	300.00	0.55	0.55	-90.40	-0.34	-47.61	47.61	46.52	1.09	43.672					
400.00	400.00	400.00	400.00	0.77	0.77	-90.40	-0.34	-47.61	47.61	46.07	1.54	30.921					
500.00	500.00	500.00	500.00	0.99	0.99	-90.40	-0.34	-47.61	47.61	45.62	1.99	23.933					
600.00	600.00	600.00	600.00	1.22	1.22	-90.40	-0.34	-47.61	47.61	45.17	2.44	19.522					
700.00	700.00	700.00	700.00	1.44	1.44	-90.40	-0.34	-47.61	47.61	44.72	2.89	16.483					
800.00	800.00	800.00	800.00	1.67	1.67	-90.40	-0.34	-47.61	47.61	44.27	3.34	14.263					
900.00	900.00	900.00	900.00	1.89	1.89	-90.40	-0.34	-47.61	47.61	43.82	3.79	12.570					
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-90.40	-0.34	-47.61	47.61	43.37	4.24	11.237					
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-90.40	-0.34	-47.61	47.61	42.92	4.69	10.159					

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 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - P_DRY CREEK 22-27 - P_DRY CREEK 22-27 - PLAN #1 10-26-09 RHS												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
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-90.40	-0.34	-47.61	47.61	42.47	5.14	9.270	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	-90.40	-0.34	-47.61	47.61	42.25	5.36	8.881 CC, ES	
1,300.00	1,300.00	1,300.05	1,300.05	2.78	2.78	134.84	-0.77	-47.58	47.89	42.33	5.56	8.616	
1,400.00	1,399.93	1,400.11	1,400.04	2.96	2.95	133.65	-4.26	-47.32	50.14	44.24	5.90	8.492 SF	
1,500.00	1,499.68	1,500.03	1,499.72	3.15	3.13	131.57	-11.21	-46.82	54.70	48.43	6.27	8.729	
1,600.00	1,599.13	1,599.73	1,598.86	3.36	3.33	129.01	-21.60	-46.07	61.64	54.98	6.66	9.260	
1,700.00	1,698.15	1,699.11	1,697.28	3.60	3.55	126.38	-35.38	-45.08	71.00	63.91	7.09	10.016	
1,800.00	1,796.63	1,798.10	1,794.76	3.87	3.80	123.90	-52.47	-43.85	82.82	75.23	7.58	10.920	
1,900.00	1,894.44	1,896.61	1,891.13	4.18	4.09	121.70	-72.81	-42.38	97.08	88.92	8.16	11.900	
2,000.00	1,991.46	1,994.56	1,986.21	4.54	4.44	119.79	-96.30	-40.69	113.76	104.94	8.83	12.888	
2,100.00	2,087.58	2,091.88	2,079.82	4.97	4.83	118.15	-122.83	-38.78	132.83	123.23	9.60	13.833	
2,200.00	2,182.68	2,188.51	2,171.81	5.46	5.28	116.74	-152.30	-36.66	154.22	143.73	10.50	14.694	
2,300.00	2,276.65	2,285.46	2,263.40	6.03	5.78	115.84	-184.01	-34.37	177.68	166.18	11.50	15.455	
2,400.00	2,369.36	2,382.27	2,354.84	6.67	6.31	115.91	-215.74	-32.08	202.63	190.05	12.58	16.104	
2,500.00	2,460.71	2,478.60	2,445.81	7.38	6.86	116.64	-247.31	-29.81	229.12	215.38	13.74	16.675	
2,600.00	2,550.59	2,574.30	2,536.21	8.17	7.42	117.80	-278.68	-27.55	257.26	242.30	14.96	17.200	
2,700.00	2,638.88	2,669.28	2,625.91	9.04	7.98	119.23	-309.81	-25.31	287.21	270.99	16.22	17.707	
2,713.86	2,650.98	2,682.38	2,638.28	9.16	8.06	119.44	-314.11	-25.00	291.51	275.11	16.40	17.777	
2,800.00	2,726.12	2,763.75	2,715.13	9.96	8.55	121.11	-340.78	-23.07	318.49	300.96	17.53	18.168	
2,900.00	2,813.35	2,858.21	2,804.34	10.91	9.13	122.72	-371.74	-20.84	350.06	331.21	18.85	18.569	
3,000.00	2,900.57	2,952.67	2,893.56	11.87	9.72	124.07	-402.70	-18.61	381.85	361.67	20.18	18.920	
3,100.00	2,987.80	3,047.13	2,982.77	12.84	10.31	125.21	-433.66	-16.38	413.80	392.28	21.52	19.230	
3,200.00	3,075.03	3,141.59	3,071.98	13.82	10.90	126.19	-464.62	-14.15	445.88	423.02	22.86	19.506	
3,300.00	3,162.25	3,236.05	3,161.20	14.80	11.50	127.04	-495.58	-11.92	478.06	453.86	24.20	19.752	
3,400.00	3,249.48	3,330.50	3,250.41	15.79	12.10	127.78	-526.54	-9.69	510.32	484.77	25.55	19.974	
3,500.00	3,336.70	3,424.96	3,339.62	16.79	12.70	128.43	-557.50	-7.46	542.65	515.75	26.90	20.174	
3,600.00	3,423.93	3,519.42	3,428.83	17.79	13.31	129.01	-588.46	-5.23	575.03	546.78	28.25	20.355	
3,700.00	3,511.16	3,613.88	3,518.05	18.80	13.92	129.53	-619.42	-3.00	607.47	577.86	29.60	20.521	
3,800.00	3,598.38	3,708.34	3,607.26	19.81	14.53	130.00	-650.38	-0.76	639.94	608.98	30.96	20.672	
3,900.00	3,685.61	3,802.80	3,696.47	20.82	15.14	130.42	-681.34	1.47	672.45	640.13	32.31	20.811	
4,000.00	3,772.84	3,897.26	3,785.69	21.83	15.75	130.80	-712.30	3.70	704.98	671.31	33.67	20.940	
4,100.00	3,860.06	3,991.72	3,874.90	22.84	16.37	131.15	-743.26	5.93	737.54	702.52	35.02	21.059	
4,200.00	3,947.29	4,086.18	3,964.11	23.86	16.98	131.47	-774.22	8.16	770.13	733.75	36.38	21.169	
4,300.00	4,034.52	4,180.63	4,053.33	24.88	17.60	131.76	-805.18	10.39	802.73	764.99	37.74	21.272	
4,400.00	4,121.74	4,275.09	4,142.54	25.89	18.22	132.03	-836.14	12.62	835.35	796.26	39.09	21.368	
4,500.00	4,208.97	4,369.55	4,231.75	26.91	18.83	132.28	-867.10	14.85	867.99	827.54	40.45	21.457	
4,600.00	4,296.20	4,464.01	4,320.96	27.93	19.45	132.51	-898.06	17.08	900.64	858.83	41.81	21.542	
4,700.00	4,383.42	4,558.47	4,410.18	28.95	20.07	132.73	-929.02	19.31	933.30	890.14	43.17	21.621	
4,800.00	4,470.65	4,652.93	4,499.39	29.98	20.69	132.93	-959.98	21.55	965.98	921.45	44.52	21.696	
4,900.00	4,557.87	4,747.39	4,588.60	31.00	21.31	133.12	-990.95	23.78	998.66	952.78	45.88	21.766	
5,000.00	4,645.10	4,841.85	4,677.82	32.02	21.93	133.29	-1,021.91	26.01	1,031.35	984.12	47.24	21.833	
5,100.00	4,732.33	4,936.31	4,767.03	33.05	22.55	133.46	-1,052.87	28.24	1,064.05	1,015.46	48.59	21.896	
5,200.00	4,819.55	5,030.76	4,856.24	34.07	23.18	133.62	-1,083.83	30.47	1,096.76	1,046.81	49.95	21.957	
5,300.00	4,906.78	5,125.22	4,945.46	35.10	23.80	133.76	-1,114.79	32.70	1,129.48	1,078.17	51.31	22.014	
5,315.18	4,920.02	5,139.56	4,958.99	35.25	23.89	133.78	-1,119.49	33.04	1,134.44	1,082.93	51.51	22.022	
5,400.00	4,994.61	5,219.98	5,034.95	36.01	24.42	134.26	-1,145.85	34.94	1,161.37	1,108.78	52.60	22.081	
5,500.00	5,084.04	5,315.49	5,125.15	36.76	25.05	134.67	-1,177.15	37.19	1,190.98	1,137.17	53.81	22.133	
5,600.00	5,174.97	5,411.64	5,215.97	37.45	25.69	134.91	-1,208.67	39.47	1,218.23	1,163.20	55.04	22.134	
5,700.00	5,267.30	5,508.33	5,307.28	38.10	26.32	135.00	-1,240.36	41.75	1,243.13	1,186.86	56.27	22.091	
5,800.00	5,360.91	5,604.17	5,397.86	38.69	26.92	134.97	-1,271.61	44.00	1,265.68	1,208.21	57.47	22.024	
5,900.00	5,455.69	5,698.05	5,487.33	39.23	27.34	134.93	-1,299.97	46.04	1,286.10	1,227.66	58.44	22.008	
6,000.00	5,551.53	5,792.57	5,578.30	39.72	27.73	134.89	-1,325.55	47.89	1,304.42	1,245.10	59.32	21.991	

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 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - P_DRY CREEK 22-27 - P_DRY CREEK 22-27 - PLAN #1 10-26-09 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,100.00	5,648.31	5,887.67	5,670.62	40.15	28.09	134.87	-1,348.24	49.52	1,320.60	1,260.50	60.10	21.973	
6,200.00	5,745.90	5,983.27	5,764.16	40.53	28.41	134.85	-1,367.97	50.95	1,334.62	1,273.83	60.79	21.955	
6,300.00	5,844.19	6,079.32	5,858.73	40.86	28.70	134.83	-1,384.65	52.15	1,346.46	1,285.08	61.38	21.936	
6,400.00	5,943.07	6,175.73	5,954.18	41.13	28.95	134.83	-1,398.19	53.12	1,356.09	1,294.22	61.87	21.917	
6,500.00	6,042.41	6,272.44	6,050.32	41.36	29.16	134.83	-1,408.56	53.87	1,363.50	1,301.23	62.27	21.898	
6,600.00	6,142.08	6,369.36	6,146.97	41.53	29.33	134.83	-1,415.69	54.38	1,368.67	1,306.11	62.56	21.878	
6,700.00	6,241.97	6,466.41	6,243.94	41.65	29.46	134.84	-1,419.56	54.66	1,371.59	1,308.84	62.75	21.857	
6,779.04	6,321.00	6,543.47	6,321.00	41.72	29.54	-90.55	-1,420.32	54.72	1,372.31	1,309.46	62.85	21.835	
6,800.00	6,341.96	6,564.44	6,341.96	41.73	29.56	-90.55	-1,420.32	54.72	1,372.31	1,309.43	62.89	21.822	
6,900.00	6,441.96	6,664.44	6,441.96	41.80	29.65	-90.55	-1,420.32	54.72	1,372.31	1,309.26	63.05	21.764	
7,000.00	6,541.96	6,764.44	6,541.96	41.86	29.73	-90.55	-1,420.32	54.72	1,372.31	1,309.09	63.22	21.707	
7,100.00	6,641.96	6,864.44	6,641.96	41.93	29.82	-90.55	-1,420.32	54.72	1,372.31	1,308.92	63.39	21.649	
7,200.00	6,741.96	6,964.44	6,741.96	42.00	29.91	-90.55	-1,420.32	54.72	1,372.31	1,308.75	63.56	21.590	
7,300.00	6,841.96	7,064.44	6,841.96	42.07	30.00	-90.55	-1,420.32	54.72	1,372.31	1,308.58	63.74	21.531	
7,400.00	6,941.96	7,164.44	6,941.96	42.14	30.09	-90.55	-1,420.32	54.72	1,372.31	1,308.40	63.91	21.471	
7,500.00	7,041.96	7,264.44	7,041.96	42.22	30.18	-90.55	-1,420.32	54.72	1,372.31	1,308.22	64.09	21.411	
7,600.00	7,141.96	7,364.44	7,141.96	42.29	30.27	-90.55	-1,420.32	54.72	1,372.31	1,308.04	64.28	21.350	
7,700.00	7,241.96	7,464.44	7,241.96	42.37	30.37	-90.55	-1,420.32	54.72	1,372.31	1,307.85	64.46	21.289	
7,800.00	7,341.96	7,564.44	7,341.96	42.44	30.47	-90.55	-1,420.32	54.72	1,372.31	1,307.66	64.65	21.227	
7,900.00	7,441.96	7,664.44	7,441.96	42.52	30.56	-90.55	-1,420.32	54.72	1,372.31	1,307.47	64.84	21.165	
8,000.00	7,541.96	7,764.44	7,541.96	42.60	30.66	-90.55	-1,420.32	54.72	1,372.31	1,307.28	65.03	21.102	
8,100.00	7,641.96	7,864.44	7,641.96	42.68	30.76	-90.55	-1,420.32	54.72	1,372.31	1,307.08	65.23	21.038	
8,200.00	7,741.96	7,964.44	7,741.96	42.76	30.86	-90.55	-1,420.32	54.72	1,372.31	1,306.89	65.43	20.975	
8,300.00	7,841.96	8,064.44	7,841.96	42.84	30.97	-90.55	-1,420.32	54.72	1,372.31	1,306.68	65.63	20.911	
8,400.00	7,941.96	8,164.44	7,941.96	42.92	31.07	-90.55	-1,420.32	54.72	1,372.31	1,306.48	65.83	20.846	
8,500.00	8,041.96	8,264.44	8,041.96	43.00	31.18	-90.55	-1,420.32	54.72	1,372.31	1,306.28	66.04	20.781	
8,600.00	8,141.96	8,364.44	8,141.96	43.09	31.29	-90.55	-1,420.32	54.72	1,372.31	1,306.07	66.25	20.716	
8,662.98	8,204.94	8,427.42	8,204.94	43.14	31.35	-90.55	-1,420.32	54.72	1,372.31	1,305.94	66.38	20.674	
8,700.00	8,241.96	8,454.47	8,232.00	43.17	31.38	-90.55	-1,420.32	54.72	1,372.35	1,305.90	66.44	20.654	
8,751.04	8,293.00	8,454.47	8,232.00	43.22	31.38	-90.55	-1,420.32	54.72	1,373.67	1,307.17	66.50	20.657	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-Good_gyro												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-90.40	-0.66	-95.21	95.22				
100.00	100.00	100.00	100.00	0.10	0.04	-90.40	-0.66	-95.21	95.22	95.08	0.14	679.960	
200.00	200.00	200.00	200.00	0.32	0.10	-90.40	-0.66	-95.21	95.22	94.80	0.42	228.249	
300.00	300.00	300.00	300.00	0.55	0.15	-90.40	-0.66	-95.21	95.22	94.52	0.69	137.143	
400.00	400.00	400.00	400.00	0.77	0.20	-90.40	-0.66	-95.21	95.22	94.24	0.97	98.018	
500.00	500.00	500.00	500.00	0.99	0.25	-90.40	-0.66	-95.21	95.22	93.97	1.25	76.262	
600.00	600.00	600.00	600.00	1.22	0.31	-90.40	-0.66	-95.21	95.22	93.69	1.53	62.410	
700.00	700.00	700.00	700.00	1.44	0.36	-90.40	-0.66	-95.21	95.22	93.41	1.80	52.816	
800.00	800.00	800.00	800.00	1.67	0.41	-90.40	-0.66	-95.21	95.22	93.14	2.08	45.779	
900.00	900.00	900.00	900.00	1.89	0.46	-90.40	-0.66	-95.21	95.22	92.86	2.36	40.396	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	0.52	-90.40	-0.66	-95.21	95.22	92.58	2.63	36.147	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	0.57	-90.40	-0.66	-95.21	95.22	92.30	2.91	32.706	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	0.62	-90.40	-0.66	-95.21	95.22	92.03	3.19	29.863	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	0.65	-90.40	-0.66	-95.21	95.22	91.89	3.33	28.619 CC, ES	
1,300.00	1,300.00	1,298.39	1,298.39	2.78	0.67	135.14	-0.72	-95.62	95.94	92.49	3.45	27.772	
1,400.00	1,399.93	1,394.91	1,394.85	2.96	0.72	136.15	-1.18	-98.84	101.78	98.09	3.69	27.586 SF	
1,500.00	1,499.68	1,490.62	1,490.33	3.15	0.78	137.84	-2.09	-105.21	113.50	109.56	3.93	28.861	
1,600.00	1,599.13	1,584.99	1,584.23	3.36	0.84	139.77	-3.42	-114.58	131.15	126.96	4.19	31.321	
1,700.00	1,698.15	1,677.55	1,675.96	3.60	0.92	141.61	-5.15	-126.74	154.72	150.26	4.46	34.706	
1,800.00	1,796.63	1,767.84	1,765.02	3.87	1.01	143.18	-7.24	-141.42	184.09	179.34	4.75	38.767	
1,900.00	1,894.44	1,855.47	1,850.97	4.18	1.13	144.42	-9.64	-158.32	219.09	214.03	5.06	43.269	
2,000.00	1,991.46	1,940.09	1,933.43	4.54	1.26	145.37	-12.32	-177.10	259.51	254.10	5.41	47.999	
2,100.00	2,087.58	2,024.97	2,015.63	4.97	1.41	146.11	-15.30	-198.10	304.87	299.09	5.78	52.707	
2,200.00	2,182.68	2,112.20	2,100.00	5.46	1.59	146.84	-18.42	-220.02	353.29	347.09	6.20	57.002	
2,300.00	2,276.65	2,197.83	2,182.82	6.03	1.76	147.52	-21.49	-241.54	404.38	397.74	6.64	60.857	
2,400.00	2,369.36	2,281.74	2,263.98	6.67	1.95	148.14	-24.49	-262.64	458.14	451.02	7.13	64.288	
2,500.00	2,460.71	2,363.84	2,343.39	7.38	2.12	148.69	-27.42	-283.27	514.53	506.89	7.64	67.321	
2,600.00	2,550.59	2,444.02	2,420.95	8.17	2.30	149.16	-30.29	-303.43	573.52	565.33	8.20	69.979	
2,700.00	2,638.88	2,522.20	2,496.56	9.04	2.48	149.56	-33.09	-323.07	635.07	626.28	8.79	72.284	
2,713.86	2,650.98	2,532.87	2,506.88	9.16	2.50	149.60	-33.47	-325.76	643.80	634.93	8.87	72.577	
2,800.00	2,726.12	2,599.06	2,570.91	9.96	2.65	150.54	-35.84	-342.39	698.26	688.87	9.39	74.367	
2,900.00	2,813.35	2,675.91	2,645.23	10.91	2.83	151.46	-38.59	-361.71	761.60	751.60	10.00	76.177	
3,000.00	2,900.57	2,752.75	2,719.56	11.87	3.00	152.24	-41.33	-381.02	825.04	814.43	10.61	77.751	
3,100.00	2,987.80	2,829.59	2,793.88	12.84	3.18	152.90	-44.08	-400.34	888.56	877.33	11.23	79.130	
3,200.00	3,075.03	2,906.44	2,868.21	13.82	3.36	153.48	-46.83	-419.65	952.14	940.29	11.85	80.345	
3,300.00	3,162.25	2,983.28	2,942.54	14.80	3.54	153.99	-49.58	-438.97	1,015.78	1,003.30	12.48	81.423	
3,400.00	3,249.48	3,060.13	3,016.86	15.79	3.72	154.44	-52.33	-458.28	1,079.46	1,066.35	13.10	82.385	
3,500.00	3,336.70	3,136.97	3,091.19	16.79	3.90	154.84	-55.08	-477.60	1,143.17	1,129.44	13.73	83.248	
3,600.00	3,423.93	3,213.81	3,165.51	17.79	4.08	155.20	-57.82	-496.91	1,206.91	1,192.55	14.36	84.026	
3,700.00	3,511.16	3,290.66	3,239.84	18.80	4.26	155.52	-60.57	-516.23	1,270.68	1,255.68	15.00	84.731	
3,800.00	3,598.38	3,367.50	3,314.17	19.81	4.44	155.81	-63.32	-535.54	1,334.47	1,318.84	15.63	85.371	
3,900.00	3,685.61	3,444.35	3,388.49	20.82	4.62	156.07	-66.07	-554.86	1,398.27	1,382.01	16.27	85.955	
4,000.00	3,772.84	3,521.19	3,462.82	21.83	4.80	156.31	-68.82	-574.17	1,462.10	1,445.19	16.90	86.491	
4,100.00	3,860.06	3,598.03	3,537.15	22.84	4.98	156.53	-71.57	-593.49	1,525.94	1,508.39	17.54	86.983	
4,200.00	3,947.29	3,674.88	3,611.47	23.86	5.16	156.74	-74.32	-612.80	1,589.79	1,571.60	18.18	87.436	
4,300.00	4,034.52	3,751.72	3,685.80	24.88	5.34	156.93	-77.06	-632.12	1,653.65	1,634.82	18.82	87.855	
4,400.00	4,121.74	3,828.57	3,760.12	25.89	5.52	157.10	-79.81	-651.43	1,717.52	1,698.05	19.46	88.244	
4,500.00	4,208.97	3,905.41	3,834.45	26.91	5.70	157.26	-82.56	-670.75	1,781.40	1,761.29	20.10	88.605	
4,600.00	4,296.20	3,982.25	3,908.78	27.93	5.89	157.41	-85.31	-690.06	1,845.28	1,824.54	20.75	88.942	
4,700.00	4,383.42	4,059.10	3,983.10	28.95	6.07	157.55	-88.06	-709.38	1,909.18	1,887.79	21.39	89.256	
4,800.00	4,470.65	4,135.94	4,057.43	29.98	6.25	157.68	-90.81	-728.69	1,973.08	1,951.05	22.03	89.550	
4,900.00	4,557.87	4,212.79	4,131.75	31.00	6.43	157.81	-93.56	-748.01	2,036.99	2,014.31	22.68	89.826	

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 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-Good_gyro												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis					Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,645.10	4,289.63	4,206.08	32.02	6.62	157.92	-96.30	-767.32	2,100.90	2,077.58	23.32	90.085	
5,100.00	4,732.33	4,366.47	4,280.41	33.05	6.80	158.03	-99.05	-786.64	2,164.81	2,140.85	23.97	90.328	
5,200.00	4,819.55	4,443.32	4,354.73	34.07	6.98	158.13	-101.80	-805.95	2,228.73	2,204.12	24.61	90.558	
5,300.00	4,906.78	4,520.16	4,429.06	35.10	7.16	158.23	-104.55	-825.27	2,292.66	2,267.40	25.26	90.775	
5,315.18	4,920.02	4,531.82	4,440.34	35.25	7.19	158.24	-104.97	-828.20	2,302.36	2,277.01	25.35	90.807	
5,400.00	4,994.61	4,597.76	4,504.11	36.01	7.35	158.81	-107.32	-844.77	2,355.68	2,329.98	25.71	91.637	
5,500.00	5,084.04	4,677.37	4,581.12	36.76	7.54	159.39	-110.17	-864.78	2,416.18	2,390.11	26.07	92.681	
5,600.00	5,174.97	4,758.92	4,660.00	37.45	7.73	159.88	-113.09	-885.28	2,474.04	2,447.62	26.41	93.662	
5,700.00	5,267.30	4,842.32	4,740.66	38.10	7.93	160.29	-116.07	-906.24	2,529.20	2,502.46	26.74	94.593	
5,800.00	5,360.91	4,927.46	4,823.01	38.69	8.13	160.64	-119.12	-927.64	2,581.59	2,554.55	27.04	95.488	
5,900.00	5,455.69	5,014.23	4,906.94	39.23	8.34	160.93	-122.22	-949.45	2,631.15	2,603.84	27.31	96.356	
6,000.00	5,551.53	5,102.54	4,992.35	39.72	8.55	161.15	-125.38	-971.65	2,677.82	2,650.28	27.55	97.207	
6,100.00	5,648.31	5,192.27	5,079.15	40.15	8.76	161.33	-128.59	-994.20	2,721.56	2,693.81	27.76	98.049	
6,200.00	5,745.90	5,283.31	5,167.21	40.53	8.98	161.46	-131.84	-1,017.08	2,762.32	2,734.39	27.93	98.887	
6,300.00	5,844.19	5,375.56	5,256.43	40.86	9.20	161.54	-135.14	-1,040.27	2,800.06	2,771.98	28.08	99.728	
6,400.00	5,943.07	5,468.90	5,346.72	41.13	9.42	161.57	-138.48	-1,063.73	2,834.73	2,806.55	28.18	100.576	
6,500.00	6,042.41	5,563.22	5,437.94	41.36	9.64	161.57	-141.86	-1,087.44	2,866.32	2,837.93	28.39	100.960	
6,600.00	6,142.08	5,658.40	5,530.01	41.53	9.87	161.52	-145.26	-1,111.36	2,894.79	2,866.20	28.59	101.250	
6,700.00	6,241.97	5,750.09	5,622.65	41.65	10.24	161.27	-150.90	-1,151.00	2,919.99	2,891.09	28.89	101.062	
6,779.04	6,321.00	5,833.80	5,704.63	41.72	10.95	-64.82	-161.12	-1,222.84	2,930.04	2,900.51	29.53	99.224	
6,800.00	6,341.96	5,841.18	5,714.96	41.73	11.00	-64.85	-161.50	-1,225.52	2,930.37	2,900.76	29.61	98.974	
6,900.00	6,441.96	5,941.18	5,811.96	41.80	11.01	-64.85	-161.50	-1,225.52	2,930.37	2,900.62	29.75	98.513	
7,000.00	6,541.96	6,041.18	5,911.96	41.86	11.03	-64.85	-161.50	-1,225.52	2,930.37	2,900.48	29.89	98.051	
7,100.00	6,641.96	6,141.18	6,011.96	41.93	11.05	-64.85	-161.50	-1,225.52	2,930.37	2,900.34	30.03	97.587	
7,200.00	6,741.96	6,241.18	6,111.96	42.00	11.06	-64.85	-161.50	-1,225.52	2,930.37	2,900.20	30.17	97.120	
7,300.00	6,841.96	6,341.18	6,211.96	42.07	11.08	-64.85	-161.50	-1,225.52	2,930.37	2,900.05	30.32	96.653	
7,400.00	6,941.96	6,441.18	6,311.96	42.14	11.10	-64.85	-161.50	-1,225.52	2,930.37	2,899.90	30.47	96.184	
7,500.00	7,041.96	6,541.18	6,411.96	42.22	11.12	-64.85	-161.50	-1,225.52	2,930.37	2,899.75	30.62	95.713	
7,600.00	7,141.96	6,641.18	6,511.96	42.29	11.13	-64.85	-161.50	-1,225.52	2,930.37	2,899.60	30.77	95.242	
7,700.00	7,241.96	6,741.18	6,611.96	42.37	11.15	-64.85	-161.50	-1,225.52	2,930.37	2,899.45	30.92	94.770	
7,800.00	7,341.96	6,841.18	6,711.96	42.44	11.17	-64.85	-161.50	-1,225.52	2,930.37	2,899.29	31.08	94.298	
7,900.00	7,441.96	6,941.18	6,811.96	42.52	11.19	-64.85	-161.50	-1,225.52	2,930.37	2,899.14	31.23	93.825	
8,000.00	7,541.96	7,041.18	6,911.96	42.60	11.21	-64.85	-161.50	-1,225.52	2,930.37	2,898.98	31.39	93.351	
8,100.00	7,641.96	7,141.18	7,011.96	42.68	11.23	-64.85	-161.50	-1,225.52	2,930.37	2,898.82	31.55	92.878	
8,200.00	7,741.96	7,241.18	7,111.96	42.76	11.25	-64.85	-161.50	-1,225.52	2,930.37	2,898.66	31.71	92.404	
8,300.00	7,841.96	7,341.18	7,211.96	42.84	11.27	-64.85	-161.50	-1,225.52	2,930.37	2,898.49	31.88	91.931	
8,400.00	7,941.96	7,441.18	7,311.96	42.92	11.28	-64.85	-161.50	-1,225.52	2,930.37	2,898.33	32.04	91.458	
8,500.00	8,041.96	7,541.18	7,411.96	43.00	11.30	-64.85	-161.50	-1,225.52	2,930.37	2,898.16	32.21	90.986	
8,600.00	8,141.96	7,641.18	7,511.96	43.09	11.32	-64.85	-161.50	-1,225.52	2,930.37	2,898.00	32.37	90.514	
8,700.00	8,241.96	7,741.18	7,611.96	43.17	11.34	-64.85	-161.50	-1,225.52	2,930.37	2,897.83	32.54	90.043	
8,751.04	8,293.00	7,793.21	7,663.00	43.22	11.35	-64.85	-161.50	-1,225.52	2,930.37	2,897.74	32.63	89.802	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - P_DRY CREEK 3-27 - P_DRY CREEK 3-27 - PLAN #1 10-26-09 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.36	-0.10	-16.80	16.80				
100.00	100.00	100.00	100.00	0.10	0.10	-90.36	-0.10	-16.80	16.80	16.61	0.19	87.949	
200.00	200.00	200.00	200.00	0.32	0.32	-90.36	-0.10	-16.80	16.80	16.16	0.64	26.230	
300.00	300.00	300.00	300.00	0.55	0.55	-90.36	-0.10	-16.80	16.80	15.71	1.09	15.414	
400.00	400.00	400.00	400.00	0.77	0.77	-90.36	-0.10	-16.80	16.80	15.26	1.54	10.913	
500.00	500.00	500.00	500.00	0.99	0.99	-90.36	-0.10	-16.80	16.80	14.81	1.99	8.447	
600.00	600.00	600.00	600.00	1.22	1.22	-90.36	-0.10	-16.80	16.80	14.36	2.44	6.890	
700.00	700.00	700.00	700.00	1.44	1.44	-90.36	-0.10	-16.80	16.80	13.91	2.89	5.818	
800.00	800.00	800.00	800.00	1.67	1.67	-90.36	-0.10	-16.80	16.80	13.47	3.34	5.034	
900.00	900.00	900.00	900.00	1.89	1.89	-90.36	-0.10	-16.80	16.80	13.02	3.79	4.437	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-90.36	-0.10	-16.80	16.80	12.57	4.24	3.966	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-90.36	-0.10	-16.80	16.80	12.12	4.69	3.585	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-90.36	-0.10	-16.80	16.80	11.67	5.14	3.272	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	-90.36	-0.10	-16.80	16.80	11.44	5.36	3.134	
1,300.00	1,300.00	1,300.23	1,300.23	2.78	2.79	136.98	0.15	-16.45	16.76	11.19	5.57	3.010	
1,329.58	1,329.56	1,329.93	1,329.92	2.83	2.85	139.95	0.55	-15.90	16.74	11.06	5.69	2.944 CC, ES	
1,400.00	1,399.93	1,400.55	1,400.48	2.96	3.01	152.27	2.21	-13.60	17.14	11.18	5.96	2.876 SF	
1,500.00	1,499.68	1,500.40	1,500.08	3.15	3.23	177.02	6.30	-7.94	21.01	14.66	6.35	3.309	
1,600.00	1,599.13	1,599.50	1,598.63	3.36	3.46	-162.77	12.36	0.46	31.08	24.32	6.76	4.599	
1,700.00	1,698.15	1,697.55	1,695.74	3.60	3.70	-150.89	20.32	11.48	47.16	39.96	7.20	6.554	
1,800.00	1,796.63	1,794.30	1,791.03	3.87	3.97	-144.12	30.07	25.00	68.41	60.74	7.67	8.923	
1,900.00	1,894.44	1,889.48	1,884.18	4.18	4.27	-139.97	41.50	40.83	94.31	86.14	8.18	11.532	
2,000.00	1,991.46	1,982.87	1,974.90	4.54	4.61	-137.22	54.47	58.79	124.58	115.84	8.74	14.254	
2,100.00	2,087.58	2,074.27	2,062.94	4.97	4.98	-135.24	68.83	78.68	158.99	149.63	9.36	16.992	
2,200.00	2,182.68	2,163.50	2,148.10	5.46	5.39	-133.72	84.43	100.29	197.37	187.33	10.04	19.667	
2,300.00	2,276.65	2,252.64	2,232.44	6.03	5.84	-132.56	101.32	123.68	239.33	228.55	10.78	22.199	
2,400.00	2,369.36	2,342.30	2,317.18	6.67	6.32	-132.00	118.46	147.43	283.59	272.00	11.59	24.477	
2,500.00	2,460.71	2,430.85	2,400.88	7.38	6.82	-131.86	135.39	170.88	329.95	317.51	12.44	26.533	
2,600.00	2,550.59	2,518.18	2,483.42	8.17	7.32	-131.95	152.08	194.00	378.41	365.08	13.33	28.395	
2,700.00	2,638.88	2,604.18	2,564.70	9.04	7.82	-132.18	168.53	216.78	428.98	414.73	14.26	30.094	
2,713.86	2,650.98	2,615.99	2,575.86	9.16	7.89	-132.22	170.78	219.90	436.16	421.78	14.39	30.316	
2,800.00	2,726.12	2,689.29	2,645.14	9.96	8.33	-133.15	184.80	239.32	480.95	465.68	15.27	31.499	
2,900.00	2,813.35	2,774.39	2,725.58	10.91	8.85	-134.03	201.07	261.85	533.04	516.73	16.31	32.680	
3,000.00	2,900.57	2,859.49	2,806.01	11.87	9.37	-134.76	217.34	284.39	585.21	567.84	17.37	33.693	
3,100.00	2,987.80	2,944.59	2,886.44	12.84	9.89	-135.37	233.61	306.92	637.43	618.99	18.44	34.568	
3,200.00	3,075.03	3,029.69	2,966.87	13.82	10.42	-135.88	249.88	329.46	689.70	670.18	19.52	35.331	
3,300.00	3,162.25	3,114.79	3,047.30	14.80	10.96	-136.33	266.15	352.00	742.01	721.40	20.61	35.999	
3,400.00	3,249.48	3,199.89	3,127.74	15.79	11.49	-136.71	282.42	374.53	794.34	772.63	21.71	36.590	
3,500.00	3,336.70	3,284.99	3,208.17	16.79	12.03	-137.05	298.69	397.07	846.69	823.88	22.81	37.113	
3,600.00	3,423.93	3,370.09	3,288.60	17.79	12.58	-137.35	314.96	419.60	899.07	875.14	23.92	37.580	
3,700.00	3,511.16	3,455.19	3,369.03	18.80	13.12	-137.62	331.23	442.14	951.46	926.42	25.04	38.000	
3,800.00	3,598.38	3,540.29	3,449.47	19.81	13.67	-137.85	347.50	464.68	1,003.86	977.70	26.16	38.379	
3,900.00	3,685.61	3,625.39	3,529.90	20.82	14.21	-138.07	363.76	487.21	1,056.28	1,029.00	27.28	38.721	
4,000.00	3,772.84	3,710.49	3,610.33	21.83	14.76	-138.26	380.03	509.75	1,108.70	1,080.30	28.40	39.033	
4,100.00	3,860.06	3,795.59	3,690.76	22.84	15.31	-138.44	396.30	532.28	1,161.13	1,131.60	29.53	39.318	
4,200.00	3,947.29	3,880.69	3,771.20	23.86	15.86	-138.60	412.57	554.82	1,213.57	1,182.91	30.66	39.578	
4,300.00	4,034.52	3,973.32	3,858.83	24.88	16.43	-138.77	430.14	579.15	1,265.93	1,234.12	31.80	39.805	
4,400.00	4,121.74	4,060.29	3,961.00	25.89	16.96	-139.10	448.68	604.83	1,317.17	1,284.29	32.88	40.057	
4,500.00	4,208.97	4,188.80	4,065.77	26.91	17.43	-139.57	465.19	627.70	1,367.03	1,333.14	33.89	40.336	
4,600.00	4,296.20	4,298.58	4,172.78	27.93	17.85	-140.18	479.52	647.55	1,415.52	1,380.69	34.84	40.635	
4,700.00	4,383.42	4,409.32	4,281.60	28.95	18.23	-140.92	491.53	664.19	1,462.68	1,426.98	35.71	40.964	
4,800.00	4,470.65	4,520.70	4,391.76	29.98	18.55	-141.77	501.12	677.47	1,508.56	1,472.06	36.50	41.331	

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 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - P_DRY CREEK 3-27 - P_DRY CREEK 3-27 - PLAN #1 10-26-09 RHS												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	
4,900.00	4,557.87	4,632.38	4,502.77	31.00	18.81	-142.72	508.21	687.29	1,553.24	1,516.03	37.21	41.742	
5,000.00	4,645.10	4,744.03	4,614.15	32.02	19.03	-143.76	512.76	693.60	1,596.80	1,558.96	37.84	42.202	
5,100.00	4,732.33	4,855.31	4,725.37	33.05	19.18	-144.88	514.77	696.38	1,639.35	1,600.98	38.38	42.719	
5,200.00	4,819.55	4,949.50	4,819.55	34.07	19.29	-145.87	514.88	696.53	1,681.31	1,642.43	38.88	43.238	
5,300.00	4,906.78	5,036.73	4,906.78	35.10	19.40	-146.75	514.88	696.53	1,723.59	1,684.19	39.40	43.750	
5,315.18	4,920.02	5,049.96	4,920.02	35.25	19.41	-146.88	514.88	696.53	1,730.04	1,690.56	39.47	43.828	
5,400.00	4,994.61	5,124.56	4,994.61	36.01	19.50	-147.98	514.88	696.53	1,765.24	1,725.26	39.98	44.152	
5,500.00	5,084.04	5,213.98	5,084.04	36.76	19.61	-149.16	514.88	696.53	1,804.51	1,764.00	40.51	44.540	
5,600.00	5,174.97	5,304.92	5,174.97	37.45	19.72	-150.20	514.88	696.53	1,841.24	1,800.21	41.03	44.878	
5,700.00	5,267.30	5,397.25	5,267.30	38.10	19.83	-151.13	514.88	696.53	1,875.32	1,833.80	41.52	45.170	
5,800.00	5,360.91	5,490.86	5,360.91	38.69	19.95	-151.94	514.88	696.53	1,906.67	1,864.69	41.98	45.418	
5,900.00	5,455.69	5,585.64	5,455.69	39.23	20.07	-152.66	514.88	696.53	1,935.19	1,892.78	42.42	45.625	
6,000.00	5,551.53	5,681.48	5,551.53	39.72	20.20	-153.27	514.88	696.53	1,960.83	1,918.01	42.82	45.793	
6,100.00	5,648.31	5,778.25	5,648.31	40.15	20.32	-153.81	514.88	696.53	1,983.51	1,940.32	43.19	45.923	
6,200.00	5,745.90	5,875.85	5,745.90	40.53	20.45	-154.25	514.88	696.53	2,003.18	1,959.65	43.53	46.019	
6,300.00	5,844.19	5,974.14	5,844.19	40.86	20.58	-154.63	514.88	696.53	2,019.80	1,975.96	43.83	46.080	
6,400.00	5,943.07	6,073.02	5,943.07	41.13	20.72	-154.92	514.88	696.53	2,033.32	1,989.22	44.10	46.107	
6,500.00	6,042.41	6,172.35	6,042.41	41.36	20.85	-155.14	514.88	696.53	2,043.72	1,999.39	44.33	46.102	
6,600.00	6,142.08	6,272.03	6,142.08	41.53	20.99	-155.30	514.88	696.53	2,050.98	2,006.45	44.53	46.063	
6,700.00	6,241.97	6,371.92	6,241.97	41.65	21.13	-155.39	514.88	696.53	2,055.07	2,010.39	44.68	45.992	
6,779.04	6,321.00	6,450.95	6,321.00	41.72	21.24	-20.81	514.88	696.53	2,056.06	2,011.28	44.78	45.911	
6,800.00	6,341.96	6,471.91	6,341.96	41.73	21.27	-20.81	514.88	696.53	2,056.06	2,011.22	44.84	45.857	
6,900.00	6,441.96	6,571.91	6,441.96	41.80	21.41	-20.81	514.88	696.53	2,056.06	2,010.97	45.09	45.594	
7,000.00	6,541.96	6,671.91	6,541.96	41.86	21.56	-20.81	514.88	696.53	2,056.06	2,010.71	45.36	45.332	
7,100.00	6,641.96	6,771.91	6,641.96	41.93	21.70	-20.81	514.88	696.53	2,056.06	2,010.44	45.62	45.070	
7,200.00	6,741.96	6,871.91	6,741.96	42.00	21.85	-20.81	514.88	696.53	2,056.06	2,010.18	45.89	44.808	
7,300.00	6,841.96	6,971.91	6,841.96	42.07	22.00	-20.81	514.88	696.53	2,056.06	2,009.91	46.16	44.546	
7,400.00	6,941.96	7,071.91	6,941.96	42.14	22.15	-20.81	514.88	696.53	2,056.06	2,009.63	46.43	44.285	
7,500.00	7,041.96	7,171.91	7,041.96	42.22	22.30	-20.81	514.88	696.53	2,056.06	2,009.36	46.70	44.024	
7,600.00	7,141.96	7,271.91	7,141.96	42.29	22.45	-20.81	514.88	696.53	2,056.06	2,009.08	46.98	43.764	
7,700.00	7,241.96	7,371.91	7,241.96	42.37	22.60	-20.81	514.88	696.53	2,056.06	2,008.80	47.26	43.504	
7,800.00	7,341.96	7,471.91	7,341.96	42.44	22.76	-20.81	514.88	696.53	2,056.06	2,008.52	47.54	43.245	
7,900.00	7,441.96	7,571.91	7,441.96	42.52	22.91	-20.81	514.88	696.53	2,056.06	2,008.23	47.83	42.987	
8,000.00	7,541.96	7,671.91	7,541.96	42.60	23.07	-20.81	514.88	696.53	2,056.06	2,007.94	48.12	42.730	
8,100.00	7,641.96	7,771.91	7,641.96	42.68	23.23	-20.81	514.88	696.53	2,056.06	2,007.65	48.41	42.474	
8,200.00	7,741.96	7,871.91	7,741.96	42.76	23.39	-20.81	514.88	696.53	2,056.06	2,007.36	48.70	42.219	
8,300.00	7,841.96	7,971.91	7,841.96	42.84	23.55	-20.81	514.88	696.53	2,056.06	2,007.07	49.00	41.964	
8,342.56	7,884.53	8,014.47	7,884.53	42.87	23.61	-20.81	514.88	696.53	2,056.06	2,006.94	49.12	41.856	
8,400.00	7,941.96	8,029.95	7,900.00	42.92	23.64	-20.81	514.88	696.53	2,056.49	2,007.27	49.22	41.778	
8,500.00	8,041.96	8,029.95	7,900.00	43.00	23.64	-20.81	514.88	696.53	2,060.96	2,011.60	49.36	41.755	
8,600.00	8,141.96	8,029.95	7,900.00	43.09	23.64	-20.81	514.88	696.53	2,070.25	2,020.76	49.50	41.827	
8,700.00	8,241.96	8,029.95	7,900.00	43.17	23.64	-20.81	514.88	696.53	2,084.31	2,034.67	49.63	41.995	
8,751.04	8,293.00	8,029.95	7,900.00	43.22	23.64	-20.81	514.88	696.53	2,093.28	2,043.58	49.70	42.116	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-90.40	-0.45	-64.41	64.41				
100.00	100.00	100.00	100.00	0.10	0.10	-90.40	-0.45	-64.41	64.41	64.22	0.19	337.139	
200.00	200.00	200.00	200.00	0.32	0.32	-90.40	-0.45	-64.41	64.41	63.77	0.64	100.550	
300.00	300.00	300.00	300.00	0.55	0.55	-90.40	-0.45	-64.41	64.41	63.32	1.09	59.086	
400.00	400.00	400.00	400.00	0.77	0.77	-90.40	-0.45	-64.41	64.41	62.87	1.54	41.835	
500.00	500.00	500.00	500.00	0.99	0.99	-90.40	-0.45	-64.41	64.41	62.42	1.99	32.381	
600.00	600.00	600.00	600.00	1.22	1.22	-90.40	-0.45	-64.41	64.41	61.97	2.44	26.412	
700.00	700.00	700.00	700.00	1.44	1.44	-90.40	-0.45	-64.41	64.41	61.52	2.89	22.301	
800.00	800.00	800.00	800.00	1.67	1.67	-90.40	-0.45	-64.41	64.41	61.07	3.34	19.298	
900.00	900.00	900.00	900.00	1.89	1.89	-90.40	-0.45	-64.41	64.41	60.62	3.79	17.007	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-90.40	-0.45	-64.41	64.41	60.17	4.24	15.203	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-90.40	-0.45	-64.41	64.41	59.72	4.69	13.744	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-90.40	-0.45	-64.41	64.41	59.27	5.14	12.541	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	-90.40	-0.45	-64.41	64.41	59.05	5.36	12.015 CC, ES	
1,300.00	1,300.00	1,299.18	1,299.17	2.78	2.79	135.51	-0.16	-64.72	65.04	59.47	5.57	11.680 SF	
1,400.00	1,399.93	1,397.17	1,397.11	2.96	3.00	139.26	2.10	-67.20	70.22	64.26	5.95	11.793	
1,500.00	1,499.68	1,494.13	1,493.83	3.15	3.22	145.20	6.57	-72.07	81.30	74.97	6.34	12.826	
1,600.00	1,599.13	1,589.38	1,588.58	3.36	3.44	151.44	13.12	-79.21	99.08	92.36	6.72	14.746	
1,700.00	1,698.15	1,682.31	1,680.67	3.60	3.68	156.83	21.54	-88.41	123.85	116.76	7.09	17.468	
1,800.00	1,796.63	1,772.36	1,769.47	3.87	3.92	161.06	31.63	-99.42	155.51	148.06	7.45	20.871	
1,900.00	1,894.44	1,859.07	1,854.49	4.18	4.19	164.24	43.13	-111.97	193.75	185.95	7.80	24.838	
2,000.00	1,991.46	1,942.02	1,935.31	4.54	4.48	166.61	55.74	-125.74	238.16	230.02	8.14	29.264	
2,100.00	2,087.58	2,020.91	2,011.64	4.97	4.78	168.37	69.20	-140.43	288.34	279.88	8.46	34.070	
2,200.00	2,182.68	2,100.00	2,087.58	5.46	5.11	169.78	84.12	-156.70	343.95	335.17	8.78	39.155	
2,300.00	2,276.65	2,165.60	2,150.09	6.03	5.43	170.69	97.56	-171.37	404.49	395.41	9.08	44.539	
2,400.00	2,369.36	2,231.15	2,212.08	6.67	5.76	171.44	111.95	-187.08	469.69	460.32	9.38	50.099	
2,500.00	2,460.71	2,300.00	2,276.65	7.38	6.14	172.11	128.10	-204.70	539.22	529.55	9.67	55.760	
2,600.00	2,550.59	2,355.45	2,328.32	8.17	6.47	172.51	141.69	-219.53	612.30	602.35	9.95	61.557	
2,700.00	2,638.88	2,420.65	2,389.06	9.04	6.88	172.95	157.70	-237.01	687.93	677.69	10.24	67.197	
2,713.86	2,650.98	2,429.47	2,397.28	9.16	6.93	173.00	159.86	-239.37	698.59	688.31	10.28	67.970	
2,800.00	2,726.12	2,484.17	2,448.23	9.96	7.28	173.52	173.30	-254.03	765.00	754.33	10.67	71.725	
2,900.00	2,813.35	2,547.66	2,507.38	10.91	7.69	174.02	188.89	-271.05	842.13	831.00	11.13	75.680	
3,000.00	2,900.57	2,611.15	2,566.53	11.87	8.10	174.44	204.48	-288.07	919.27	907.68	11.60	79.274	
3,100.00	2,987.80	2,674.65	2,625.68	12.84	8.53	174.79	220.07	-305.08	996.44	984.36	12.07	82.525	
3,200.00	3,075.03	2,738.14	2,684.83	13.82	8.95	175.10	235.67	-322.10	1,073.62	1,061.06	12.56	85.487	
3,300.00	3,162.25	2,801.64	2,743.98	14.80	9.38	175.36	251.26	-339.12	1,150.80	1,137.76	13.05	88.199	
3,400.00	3,249.48	2,865.13	2,803.13	15.79	9.82	175.59	266.85	-356.14	1,228.00	1,214.46	13.54	90.666	
3,500.00	3,336.70	2,928.62	2,862.28	16.79	10.26	175.79	282.44	-373.15	1,305.20	1,291.16	14.04	92.938	
3,600.00	3,423.93	2,992.12	2,921.43	17.79	10.70	175.97	298.04	-390.17	1,382.41	1,367.87	14.55	95.030	
3,700.00	3,511.16	3,055.61	2,980.58	18.80	11.15	176.13	313.63	-407.19	1,459.63	1,444.57	15.06	96.952	
3,800.00	3,598.38	3,119.11	3,039.73	19.81	11.59	176.28	329.22	-424.21	1,536.85	1,521.28	15.57	98.735	
3,900.00	3,685.61	3,182.60	3,098.88	20.82	12.04	176.41	344.81	-441.22	1,614.07	1,597.99	16.08	100.384	
4,000.00	3,772.84	3,246.09	3,158.03	21.83	12.50	176.53	360.41	-458.24	1,691.30	1,674.70	16.60	101.915	
4,100.00	3,860.06	3,309.59	3,217.19	22.84	12.95	176.63	376.00	-475.26	1,768.52	1,751.41	17.11	103.343	
4,200.00	3,947.29	3,373.08	3,276.34	23.86	13.40	176.73	391.59	-492.28	1,845.75	1,828.12	17.63	104.670	
4,300.00	4,034.52	3,436.58	3,335.49	24.88	13.86	176.83	407.19	-509.29	1,922.99	1,904.83	18.16	105.912	
4,400.00	4,121.74	3,500.07	3,394.64	25.89	14.31	176.91	422.78	-526.31	2,000.22	1,981.54	18.68	107.076	
4,500.00	4,208.97	3,563.56	3,453.79	26.91	14.77	176.99	438.37	-543.33	2,077.46	2,058.25	19.21	108.163	
4,600.00	4,296.20	3,627.06	3,512.94	27.93	15.23	177.06	453.96	-560.35	2,154.69	2,134.96	19.73	109.187	
4,700.00	4,383.42	3,690.55	3,572.09	28.95	15.69	177.13	469.56	-577.36	2,231.93	2,211.67	20.26	110.151	
4,800.00	4,470.65	3,754.05	3,631.24	29.98	16.15	177.19	485.15	-594.38	2,309.17	2,288.38	20.79	111.056	
4,900.00	4,557.87	3,817.54	3,690.39	31.00	16.61	177.25	500.74	-611.40	2,386.41	2,365.09	21.32	111.913	

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 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,645.10	3,881.03	3,749.54	32.02	17.08	177.31	516.33	-628.42	2,463.65	2,441.80	21.86	112.722	
5,100.00	4,732.33	4,386.34	4,233.68	33.05	19.48	177.65	612.55	-733.42	2,535.93	2,512.77	23.16	109.498	
5,200.00	4,819.55	4,975.91	4,819.55	34.07	20.78	177.95	650.33	-774.66	2,591.23	2,566.72	24.50	105.761	
5,300.00	4,906.78	5,063.14	4,906.78	35.10	20.87	177.99	650.33	-774.66	2,640.11	2,615.06	25.05	105.411	
5,315.18	4,920.02	5,076.38	4,920.02	35.25	20.89	177.99	650.33	-774.66	2,647.52	2,622.39	25.13	105.358	
5,400.00	4,994.61	5,150.97	4,994.61	36.01	20.97	178.06	650.33	-774.66	2,687.89	2,662.04	25.85	103.978	
5,500.00	5,084.04	5,240.39	5,084.04	36.76	21.07	178.12	650.33	-774.66	2,732.61	2,705.95	26.66	102.510	
5,600.00	5,174.97	5,331.33	5,174.97	37.45	21.18	178.18	650.33	-774.66	2,774.19	2,746.76	27.43	101.152	
5,700.00	5,267.30	5,423.66	5,267.30	38.10	21.28	178.23	650.33	-774.66	2,812.57	2,784.41	28.16	99.896	
5,800.00	5,360.91	5,517.27	5,360.91	38.69	21.39	178.27	650.33	-774.66	2,847.70	2,818.86	28.84	98.732	
5,900.00	5,455.69	5,612.05	5,455.69	39.23	21.50	178.31	650.33	-774.66	2,879.55	2,850.07	29.49	97.654	
6,000.00	5,551.53	5,707.89	5,551.53	39.72	21.62	178.35	650.33	-774.66	2,908.08	2,877.99	30.09	96.657	
6,100.00	5,648.31	5,804.66	5,648.31	40.15	21.74	178.38	650.33	-774.66	2,933.24	2,902.60	30.64	95.734	
6,200.00	5,745.90	5,902.26	5,745.90	40.53	21.86	178.40	650.33	-774.66	2,955.01	2,923.87	31.14	94.882	
6,300.00	5,844.19	6,000.55	5,844.19	40.86	21.98	178.42	650.33	-774.66	2,973.37	2,941.77	31.60	94.095	
6,400.00	5,943.07	6,099.43	5,943.07	41.13	22.11	178.44	650.33	-774.66	2,988.28	2,956.28	32.00	93.371	
6,500.00	6,042.41	6,198.76	6,042.41	41.36	22.23	178.45	650.33	-774.66	2,999.74	2,967.38	32.36	92.705	
6,600.00	6,142.08	6,298.44	6,142.08	41.53	22.36	178.46	650.33	-774.66	3,007.72	2,975.06	32.66	92.096	
6,700.00	6,241.97	6,398.33	6,241.97	41.65	22.50	178.46	650.33	-774.66	3,012.22	2,979.31	32.91	91.540	
6,779.04	6,321.00	6,477.36	6,321.00	41.72	22.60	-46.94	650.33	-774.66	3,013.31	2,980.24	33.07	91.131	
6,800.00	6,341.96	6,498.32	6,341.96	41.73	22.63	-46.94	650.33	-774.66	3,013.31	2,980.17	33.14	90.936	
6,900.00	6,441.96	6,598.32	6,441.96	41.80	22.76	-46.94	650.33	-774.66	3,013.31	2,979.84	33.47	90.017	
7,000.00	6,541.96	6,698.32	6,541.96	41.86	22.90	-46.94	650.33	-774.66	3,013.31	2,979.49	33.82	89.110	
7,100.00	6,641.96	6,798.32	6,641.96	41.93	23.03	-46.94	650.33	-774.66	3,013.31	2,979.15	34.16	88.214	
7,200.00	6,741.96	6,898.32	6,741.96	42.00	23.17	-46.94	650.33	-774.66	3,013.31	2,978.81	34.50	87.331	
7,300.00	6,841.96	6,998.32	6,841.96	42.07	23.31	-46.94	650.33	-774.66	3,013.31	2,978.46	34.85	86.460	
7,400.00	6,941.96	7,098.32	6,941.96	42.14	23.45	-46.94	650.33	-774.66	3,013.31	2,978.11	35.20	85.601	
7,500.00	7,041.96	7,198.32	7,041.96	42.22	23.60	-46.94	650.33	-774.66	3,013.31	2,977.76	35.55	84.754	
7,600.00	7,141.96	7,298.32	7,141.96	42.29	23.74	-46.94	650.33	-774.66	3,013.31	2,977.40	35.91	83.918	
7,700.00	7,241.96	7,398.32	7,241.96	42.37	23.88	-46.94	650.33	-774.66	3,013.31	2,977.05	36.26	83.095	
7,800.00	7,341.96	7,498.32	7,341.96	42.44	24.03	-46.94	650.33	-774.66	3,013.31	2,976.69	36.62	82.283	
7,900.00	7,441.96	7,598.32	7,441.96	42.52	24.18	-46.94	650.33	-774.66	3,013.31	2,976.33	36.98	81.482	
8,000.00	7,541.96	7,698.32	7,541.96	42.60	24.33	-46.94	650.33	-774.66	3,013.31	2,975.97	37.34	80.694	
8,100.00	7,641.96	7,798.32	7,641.96	42.68	24.48	-46.94	650.33	-774.66	3,013.31	2,975.60	37.71	79.916	
8,200.00	7,741.96	7,898.32	7,741.96	42.76	24.63	-46.94	650.33	-774.66	3,013.31	2,975.24	38.07	79.150	
8,300.00	7,841.96	7,998.32	7,841.96	42.84	24.78	-46.94	650.33	-774.66	3,013.31	2,974.87	38.44	78.395	
8,350.27	7,892.24	8,048.60	7,892.24	42.88	24.86	-46.94	650.33	-774.66	3,013.31	2,974.69	38.62	78.019	
8,400.00	7,941.96	8,065.36	7,909.00	42.92	24.88	-46.94	650.33	-774.66	3,013.49	2,974.75	38.74	77.792	
8,500.00	8,041.96	8,065.36	7,909.00	43.00	24.88	-46.94	650.33	-774.66	3,016.24	2,977.34	38.90	77.536	
8,600.00	8,141.96	8,065.36	7,909.00	43.09	24.88	-46.94	650.33	-774.66	3,022.30	2,983.24	39.07	77.366	
8,700.00	8,241.96	8,065.36	7,909.00	43.17	24.88	-46.94	650.33	-774.66	3,031.65	2,992.42	39.23	77.278	
8,751.04	8,293.00	8,065.36	7,909.00	43.22	24.88	-46.94	650.33	-774.66	3,037.68	2,998.36	39.32	77.264	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - P_DRY CREEK 5-27 - P_DRY CREEK 5-27 - PLAN #1 10-26-09 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.41	-0.56	-78.41	78.41				
100.00	100.00	100.00	100.00	0.10	0.10	-90.41	-0.56	-78.41	78.41	78.22	0.19	410.430	
200.00	200.00	200.00	200.00	0.32	0.32	-90.41	-0.56	-78.41	78.41	77.77	0.64	122.409	
300.00	300.00	300.00	300.00	0.55	0.55	-90.41	-0.56	-78.41	78.41	77.32	1.09	71.931	
400.00	400.00	400.00	400.00	0.77	0.77	-90.41	-0.56	-78.41	78.41	76.87	1.54	50.929	
500.00	500.00	500.00	500.00	0.99	0.99	-90.41	-0.56	-78.41	78.41	76.42	1.99	39.420	
600.00	600.00	600.00	600.00	1.22	1.22	-90.41	-0.56	-78.41	78.41	75.97	2.44	32.153	
700.00	700.00	700.00	700.00	1.44	1.44	-90.41	-0.56	-78.41	78.41	75.52	2.89	27.149	
800.00	800.00	800.00	800.00	1.67	1.67	-90.41	-0.56	-78.41	78.41	75.08	3.34	23.493	
900.00	900.00	900.00	900.00	1.89	1.89	-90.41	-0.56	-78.41	78.41	74.63	3.79	20.704	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-90.41	-0.56	-78.41	78.41	74.18	4.24	18.507	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-90.41	-0.56	-78.41	78.41	73.73	4.69	16.732	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-90.41	-0.56	-78.41	78.41	73.28	5.14	15.268	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	-90.41	-0.56	-78.41	78.41	73.05	5.36	14.627 CC, ES	
1,300.00	1,300.00	1,299.25	1,299.25	2.78	2.78	134.95	-0.91	-78.64	78.96	73.40	5.56	14.208	
1,400.00	1,399.93	1,397.62	1,397.55	2.96	2.95	134.62	-3.75	-80.48	83.32	77.41	5.91	14.109 SF	
1,500.00	1,499.68	1,495.56	1,495.26	3.15	3.13	134.04	-9.38	-84.13	92.02	85.75	6.26	14.688	
1,600.00	1,599.13	1,592.82	1,592.00	3.36	3.33	133.34	-17.74	-89.56	105.04	98.40	6.64	15.813	
1,700.00	1,698.15	1,689.12	1,687.40	3.60	3.55	132.59	-28.74	-96.69	122.34	115.29	7.05	17.353	
1,800.00	1,796.63	1,784.21	1,781.12	3.87	3.79	131.87	-42.22	-105.44	143.85	136.35	7.50	19.183	
1,900.00	1,894.44	1,877.88	1,872.86	4.18	4.07	131.18	-58.05	-115.70	169.49	161.49	8.00	21.189	
2,000.00	1,991.46	1,969.90	1,962.34	4.54	4.39	130.54	-76.05	-127.37	199.16	190.60	8.56	23.266	
2,100.00	2,087.58	2,060.08	2,049.33	4.97	4.74	129.91	-96.01	-140.32	232.76	223.57	9.19	25.326	
2,200.00	2,182.68	2,148.26	2,133.61	5.46	5.14	129.31	-117.74	-154.41	270.17	260.27	9.90	27.299	
2,300.00	2,276.65	2,234.29	2,215.04	6.03	5.58	128.70	-141.03	-169.52	311.26	300.57	10.68	29.140	
2,400.00	2,369.36	2,318.05	2,293.48	6.67	6.05	128.08	-165.67	-185.50	355.89	344.34	11.55	30.823	
2,500.00	2,460.71	2,401.40	2,370.69	7.38	6.56	127.47	-192.00	-202.57	403.87	391.36	12.50	32.302	
2,600.00	2,550.59	2,487.81	2,450.52	8.17	7.12	127.07	-219.75	-220.57	454.07	440.52	13.55	33.507	
2,700.00	2,638.88	2,573.00	2,529.22	9.04	7.70	126.89	-247.12	-238.32	506.13	491.47	14.66	34.521	
2,713.86	2,650.98	2,584.70	2,540.03	9.16	7.77	126.88	-250.88	-240.76	513.49	498.67	14.82	34.650	
2,800.00	2,726.12	2,657.36	2,607.15	9.96	8.27	127.60	-274.22	-255.90	559.39	543.54	15.86	35.280	
2,900.00	2,813.35	2,741.72	2,685.08	10.91	8.86	128.31	-301.32	-273.47	612.75	595.67	17.08	35.876	
3,000.00	2,900.57	2,826.07	2,763.01	11.87	9.46	128.90	-328.42	-291.05	666.16	647.84	18.32	36.359	
3,100.00	2,987.80	2,910.43	2,840.93	12.84	10.06	129.41	-355.51	-308.62	719.62	700.04	19.58	36.756	
3,200.00	3,075.03	2,994.78	2,918.86	13.82	10.67	129.84	-382.61	-326.19	773.11	752.26	20.85	37.084	
3,300.00	3,162.25	3,079.14	2,996.79	14.80	11.29	130.22	-409.71	-343.77	826.62	804.50	22.13	37.360	
3,400.00	3,249.48	3,163.49	3,074.71	15.79	11.91	130.56	-436.81	-361.34	880.16	856.75	23.41	37.594	
3,500.00	3,336.70	3,247.85	3,152.64	16.79	12.53	130.85	-463.91	-378.92	933.72	909.02	24.71	37.794	
3,600.00	3,423.93	3,332.20	3,230.57	17.79	13.15	131.12	-491.01	-396.49	987.30	961.30	26.00	37.968	
3,700.00	3,511.16	3,416.56	3,308.49	18.80	13.78	131.35	-518.10	-414.07	1,040.89	1,013.58	27.31	38.120	
3,800.00	3,598.38	3,500.91	3,386.42	19.81	14.41	131.57	-545.20	-431.64	1,094.49	1,065.88	28.61	38.253	
3,900.00	3,685.61	3,585.27	3,464.35	20.82	15.04	131.76	-572.30	-449.21	1,148.10	1,118.18	29.92	38.371	
4,000.00	3,772.84	3,669.62	3,542.28	21.83	15.67	131.94	-599.40	-466.79	1,201.72	1,170.48	31.23	38.476	
4,100.00	3,860.06	3,753.98	3,620.20	22.84	16.31	132.10	-626.50	-484.36	1,255.34	1,222.80	32.55	38.570	
4,200.00	3,947.29	3,856.77	3,715.59	23.86	16.93	132.33	-658.62	-505.20	1,308.53	1,274.69	33.85	38.662	
4,300.00	4,034.52	3,967.76	3,820.03	24.88	17.50	132.72	-690.13	-525.63	1,360.17	1,325.09	35.08	38.773	
4,400.00	4,121.74	4,080.64	3,927.66	25.89	18.04	133.27	-718.67	-544.14	1,410.20	1,373.94	36.26	38.890	
4,500.00	4,208.97	4,195.11	4,038.08	26.91	18.54	133.95	-743.95	-560.54	1,458.64	1,421.26	37.38	39.024	
4,600.00	4,296.20	4,310.83	4,150.84	27.93	18.99	134.75	-765.73	-574.66	1,505.50	1,467.09	38.42	39.189	
4,700.00	4,383.42	4,427.43	4,265.42	28.95	19.39	135.67	-783.79	-586.38	1,550.85	1,511.48	39.37	39.390	
4,800.00	4,470.65	4,544.53	4,381.29	29.98	19.72	136.70	-797.98	-595.58	1,594.76	1,554.53	40.24	39.635	
4,900.00	4,557.87	4,661.74	4,497.86	31.00	19.99	137.81	-808.19	-602.20	1,637.32	1,596.32	41.00	39.930	

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 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - P_DRY CREEK 5-27 - P_DRY CREEK 5-27 - PLAN #1 10-26-09 RHS												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
5,000.00	4,645.10	4,778.68	4,614.56	32.02	20.20	139.01	-814.38	-606.22	1,678.64	1,636.97	41.67	40.283	
5,100.00	4,732.33	4,894.95	4,730.80	33.05	20.36	140.29	-816.57	-607.64	1,718.84	1,676.60	42.24	40.696	
5,200.00	4,819.55	4,983.71	4,819.55	34.07	20.45	141.27	-816.58	-607.64	1,758.68	1,715.88	42.80	41.087	
5,300.00	4,906.78	5,070.94	4,906.78	35.10	20.54	142.20	-816.58	-607.64	1,798.97	1,755.62	43.35	41.495	
5,315.18	4,920.02	5,084.17	4,920.02	35.25	20.55	142.34	-816.58	-607.64	1,805.12	1,761.69	43.44	41.558	
5,400.00	4,994.61	5,158.77	4,994.61	36.01	20.63	143.51	-816.58	-607.64	1,838.76	1,794.84	43.92	41.865	
5,500.00	5,084.04	5,248.19	5,084.04	36.76	20.72	144.77	-816.58	-607.64	1,876.34	1,831.94	44.40	42.262	
5,600.00	5,174.97	5,339.13	5,174.97	37.45	20.82	145.89	-816.58	-607.64	1,911.55	1,866.71	44.84	42.627	
5,700.00	5,267.30	5,431.46	5,267.30	38.10	20.91	146.89	-816.58	-607.64	1,944.28	1,899.02	45.26	42.959	
5,800.00	5,360.91	5,525.07	5,360.91	38.69	21.02	147.78	-816.58	-607.64	1,974.42	1,928.78	45.64	43.257	
5,900.00	5,455.69	5,619.85	5,455.69	39.23	21.12	148.56	-816.58	-607.64	2,001.88	1,955.88	46.00	43.519	
6,000.00	5,551.53	5,715.69	5,551.53	39.72	21.23	149.24	-816.58	-607.64	2,026.59	1,980.26	46.33	43.746	
6,100.00	5,648.31	5,812.46	5,648.31	40.15	21.34	149.82	-816.58	-607.64	2,048.46	2,001.84	46.62	43.937	
6,200.00	5,745.90	5,910.06	5,745.90	40.53	21.45	150.31	-816.58	-607.64	2,067.45	2,020.56	46.89	44.091	
6,300.00	5,844.19	6,008.35	5,844.19	40.86	21.57	150.72	-816.58	-607.64	2,083.50	2,036.37	47.13	44.208	
6,400.00	5,943.07	6,107.23	5,943.07	41.13	21.69	151.05	-816.58	-607.64	2,096.57	2,049.23	47.34	44.287	
6,500.00	6,042.41	6,206.56	6,042.41	41.36	21.81	151.30	-816.58	-607.64	2,106.63	2,059.10	47.52	44.328	
6,600.00	6,142.08	6,306.24	6,142.08	41.53	21.93	151.47	-816.58	-607.64	2,113.64	2,065.96	47.68	44.328	
6,700.00	6,241.97	6,406.13	6,241.97	41.65	22.06	151.56	-816.58	-607.64	2,117.60	2,069.79	47.81	44.288	
6,779.04	6,321.00	6,485.16	6,321.00	41.72	22.16	-73.82	-816.58	-607.64	2,118.56	2,070.65	47.91	44.223	
6,800.00	6,341.96	6,506.12	6,341.96	41.73	22.18	-73.82	-816.58	-607.64	2,118.56	2,070.61	47.95	44.178	
6,900.00	6,441.96	6,606.12	6,441.96	41.80	22.31	-73.82	-816.58	-607.64	2,118.56	2,070.38	48.18	43.968	
7,000.00	6,541.96	6,706.12	6,541.96	41.86	22.44	-73.82	-816.58	-607.64	2,118.56	2,070.14	48.42	43.758	
7,100.00	6,641.96	6,806.12	6,641.96	41.93	22.57	-73.82	-816.58	-607.64	2,118.56	2,069.91	48.65	43.547	
7,200.00	6,741.96	6,906.12	6,741.96	42.00	22.70	-73.82	-816.58	-607.64	2,118.56	2,069.67	48.89	43.335	
7,300.00	6,841.96	7,006.12	6,841.96	42.07	22.83	-73.82	-816.58	-607.64	2,118.56	2,069.43	49.13	43.122	
7,400.00	6,941.96	7,106.12	6,941.96	42.14	22.97	-73.82	-816.58	-607.64	2,118.56	2,069.19	49.37	42.909	
7,500.00	7,041.96	7,206.12	7,041.96	42.22	23.11	-73.82	-816.58	-607.64	2,118.56	2,068.94	49.62	42.696	
7,600.00	7,141.96	7,306.12	7,141.96	42.29	23.24	-73.82	-816.58	-607.64	2,118.56	2,068.69	49.87	42.482	
7,700.00	7,241.96	7,406.12	7,241.96	42.37	23.38	-73.82	-816.58	-607.64	2,118.56	2,068.44	50.12	42.268	
7,800.00	7,341.96	7,506.12	7,341.96	42.44	23.52	-73.82	-816.58	-607.64	2,118.56	2,068.18	50.38	42.054	
7,900.00	7,441.96	7,606.12	7,441.96	42.52	23.66	-73.82	-816.58	-607.64	2,118.56	2,067.93	50.64	41.840	
8,000.00	7,541.96	7,706.12	7,541.96	42.60	23.81	-73.82	-816.58	-607.64	2,118.56	2,067.66	50.90	41.626	
8,100.00	7,641.96	7,806.12	7,641.96	42.68	23.95	-73.82	-816.58	-607.64	2,118.56	2,067.40	51.16	41.411	
8,200.00	7,741.96	7,906.12	7,741.96	42.76	24.10	-73.82	-816.58	-607.64	2,118.56	2,067.14	51.42	41.197	
8,300.00	7,841.96	8,006.12	7,841.96	42.84	24.24	-73.82	-816.58	-607.64	2,118.56	2,066.87	51.69	40.984	
8,309.98	7,851.95	8,016.11	7,851.95	42.85	24.26	-73.82	-816.58	-607.64	2,118.56	2,066.84	51.72	40.962	
8,400.00	7,941.96	8,043.16	7,879.00	42.92	24.30	-73.82	-816.58	-607.64	2,119.50	2,067.63	51.87	40.862	
8,500.00	8,041.96	8,043.16	7,879.00	43.00	24.30	-73.82	-816.58	-607.64	2,124.82	2,072.83	51.99	40.869	
8,600.00	8,141.96	8,043.16	7,879.00	43.09	24.30	-73.82	-816.58	-607.64	2,134.82	2,082.70	52.11	40.964	
8,700.00	8,241.96	8,043.16	7,879.00	43.17	24.30	-73.82	-816.58	-607.64	2,149.43	2,097.19	52.24	41.146	
8,751.04	8,293.00	8,043.16	7,879.00	43.22	24.30	-73.82	-816.58	-607.64	2,158.63	2,106.33	52.30	41.272	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.40	-0.21	-30.80	30.81				
100.00	100.00	100.00	100.00	0.10	0.10	-90.40	-0.21	-30.80	30.81	30.61	0.19	161.240	
200.00	200.00	200.00	200.00	0.32	0.32	-90.40	-0.21	-30.80	30.81	30.16	0.64	48.089	
300.00	300.00	300.00	300.00	0.55	0.55	-90.40	-0.21	-30.80	30.81	29.72	1.09	28.259	
400.00	400.00	400.00	400.00	0.77	0.77	-90.40	-0.21	-30.80	30.81	29.27	1.54	20.008	
500.00	500.00	500.00	500.00	0.99	0.99	-90.40	-0.21	-30.80	30.81	28.82	1.99	15.486	
600.00	600.00	600.00	600.00	1.22	1.22	-90.40	-0.21	-30.80	30.81	28.37	2.44	12.632	
700.00	700.00	700.00	700.00	1.44	1.44	-90.40	-0.21	-30.80	30.81	27.92	2.89	10.666	
800.00	800.00	800.00	800.00	1.67	1.67	-90.40	-0.21	-30.80	30.81	27.47	3.34	9.229	
900.00	900.00	900.00	900.00	1.89	1.89	-90.40	-0.21	-30.80	30.81	27.02	3.79	8.134	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-90.40	-0.21	-30.80	30.81	26.57	4.24	7.271	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-90.40	-0.21	-30.80	30.81	26.12	4.69	6.573	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-90.40	-0.21	-30.80	30.81	25.67	5.14	5.998	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	2.68	-90.40	-0.21	-30.80	30.81	25.44	5.36	5.747 CC	
1,300.00	1,300.00	1,300.36	1,300.36	2.78	2.78	134.97	-0.54	-30.50	30.82	25.26	5.56	5.542	
1,400.00	1,399.93	1,401.09	1,401.02	2.96	2.96	134.73	-3.14	-28.10	30.92	25.00	5.92	5.226	
1,500.00	1,499.68	1,501.82	1,501.50	3.15	3.16	134.24	-8.34	-23.30	31.12	24.84	6.29	4.952	
1,600.00	1,599.13	1,602.54	1,601.65	3.36	3.37	133.52	-16.13	-16.10	31.43	24.76	6.68	4.708	
1,700.00	1,698.15	1,703.26	1,701.37	3.60	3.60	132.58	-26.50	-6.53	31.85	24.75	7.10	4.486 ES	
1,800.00	1,796.63	1,803.98	1,800.53	3.87	3.87	131.45	-39.44	5.42	32.39	24.81	7.57	4.276	
1,900.00	1,894.44	1,904.68	1,899.00	4.18	4.19	130.14	-54.93	19.73	33.04	24.92	8.12	4.071	
2,000.00	1,991.46	2,005.38	1,996.66	4.54	4.56	128.68	-72.95	36.38	33.82	25.08	8.75	3.867	
2,100.00	2,087.58	2,106.07	2,093.38	4.97	4.99	127.10	-93.48	55.34	34.74	25.25	9.49	3.662	
2,200.00	2,182.68	2,206.74	2,189.06	5.46	5.49	125.43	-116.49	76.59	35.80	25.44	10.36	3.456	
2,300.00	2,276.65	2,307.41	2,283.56	6.03	6.06	123.69	-141.95	100.11	37.00	25.63	11.38	3.253	
2,400.00	2,369.36	2,408.06	2,376.78	6.67	6.71	121.91	-169.83	125.86	38.36	25.80	12.55	3.056	
2,500.00	2,460.71	2,508.70	2,468.59	7.38	7.43	120.11	-200.09	153.82	39.87	25.97	13.90	2.868	
2,600.00	2,550.59	2,609.32	2,558.89	8.17	8.23	118.32	-232.70	183.94	41.53	26.11	15.42	2.694	
2,700.00	2,638.88	2,709.48	2,647.57	9.04	9.09	117.60	-266.90	215.52	43.72	26.70	17.02	2.569	
2,713.86	2,650.98	2,723.34	2,659.83	9.16	9.21	117.79	-271.65	219.91	44.14	26.91	17.22	2.563	
2,800.00	2,726.12	2,809.43	2,735.99	9.96	9.97	119.19	-301.13	247.14	46.87	28.37	18.50	2.533	
2,900.00	2,813.35	2,909.37	2,824.40	10.91	10.87	120.61	-335.35	278.75	50.08	30.08	20.00	2.504	
3,000.00	2,900.57	3,009.31	2,912.82	11.87	11.78	121.87	-369.58	310.36	53.31	31.80	21.50	2.479	
3,100.00	2,987.80	3,109.25	3,001.24	12.84	12.70	122.98	-403.81	341.97	56.56	33.56	23.01	2.458	
3,200.00	3,075.03	3,209.19	3,089.66	13.82	13.63	123.97	-438.03	373.59	59.84	35.33	24.51	2.441	
3,300.00	3,162.25	3,309.13	3,178.07	14.80	14.57	124.86	-472.26	405.20	63.13	37.12	26.01	2.427	
3,400.00	3,249.48	3,409.07	3,266.49	15.79	15.51	125.66	-506.48	436.81	66.43	38.92	27.51	2.415	
3,500.00	3,336.70	3,509.01	3,354.91	16.79	16.45	126.38	-540.71	468.42	69.75	40.74	29.01	2.404 SF	
3,600.00	3,423.93	3,608.37	3,442.94	17.79	17.34	127.22	-574.55	499.68	73.24	42.82	30.42	2.408	
3,700.00	3,511.16	3,706.66	3,531.27	18.80	18.04	129.62	-606.21	528.92	78.42	47.20	31.22	2.512	
3,800.00	3,598.38	3,804.45	3,620.56	19.81	18.70	133.45	-635.47	555.96	85.93	54.47	31.46	2.731	
3,900.00	3,685.61	3,901.52	3,710.50	20.82	19.32	138.05	-662.30	580.73	96.17	64.93	31.24	3.079	
4,000.00	3,772.84	3,997.66	3,800.75	21.83	19.89	142.84	-686.64	603.21	109.50	78.80	30.70	3.567	
4,100.00	3,860.06	4,092.67	3,890.97	22.84	20.41	147.41	-708.50	623.41	126.15	96.11	30.04	4.200	
4,200.00	3,947.29	4,186.37	3,980.87	23.86	20.88	151.53	-727.89	641.32	146.21	116.82	29.38	4.976	
4,300.00	4,034.52	4,278.58	4,070.14	24.88	21.30	155.12	-744.86	656.99	169.68	140.84	28.84	5.884	
4,400.00	4,121.74	4,369.16	4,158.51	25.89	21.67	158.18	-759.46	670.48	196.49	168.06	28.43	6.911	
4,500.00	4,208.97	4,457.97	4,245.72	26.91	21.99	160.76	-771.78	681.85	226.53	198.35	28.18	8.037	
4,600.00	4,296.20	4,544.90	4,331.54	27.93	22.26	162.94	-781.91	691.21	259.69	231.60	28.08	9.247	
4,700.00	4,383.42	4,629.85	4,415.78	28.95	22.49	164.78	-789.95	698.64	295.83	267.74	28.09	10.531	
4,800.00	4,470.65	4,712.75	4,498.26	29.98	22.68	166.34	-796.03	704.26	334.83	306.64	28.19	11.877	
4,900.00	4,557.87	4,793.53	4,578.83	31.00	22.84	167.66	-800.27	708.17	376.56	348.20	28.36	13.278	

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 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - P_DRY CREEK 6-27 - P_DRY CREEK 6-27 - PLAN #1 10-26-09 RHS												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,645.10	4,872.15	4,657.38	32.02	22.95	168.80	-802.79	710.50	420.89	392.31	28.58	14.727	
5,100.00	4,732.33	4,948.59	4,733.80	33.05	23.04	169.77	-803.72	711.35	467.72	438.88	28.84	16.216	
5,200.00	4,819.55	5,034.34	4,819.55	34.07	23.12	170.72	-803.73	711.36	516.07	486.94	29.13	17.715	
5,300.00	4,906.78	5,121.57	4,906.78	35.10	23.20	171.52	-803.73	711.36	564.52	535.05	29.47	19.155	
5,315.18	4,920.02	5,134.80	4,920.02	35.25	23.21	171.63	-803.73	711.36	571.88	542.36	29.53	19.369	
5,400.00	4,994.61	5,209.40	4,994.61	36.01	23.28	172.30	-803.73	711.36	611.96	582.04	29.92	20.455	
5,500.00	5,084.04	5,298.82	5,084.04	36.76	23.37	172.94	-803.73	711.36	656.40	626.03	30.37	21.612	
5,600.00	5,174.97	5,389.76	5,174.97	37.45	23.46	173.47	-803.73	711.36	697.76	666.94	30.82	22.639	
5,700.00	5,267.30	5,482.08	5,267.30	38.10	23.55	173.90	-803.73	711.36	735.96	704.70	31.25	23.549	
5,800.00	5,360.91	5,575.70	5,360.91	38.69	23.64	174.25	-803.73	711.36	770.94	739.28	31.66	24.351	
5,900.00	5,455.69	5,670.48	5,455.69	39.23	23.74	174.54	-803.73	711.36	802.67	770.63	32.03	25.056	
6,000.00	5,551.53	5,766.32	5,551.53	39.72	23.84	174.78	-803.73	711.36	831.09	798.71	32.37	25.671	
6,100.00	5,648.31	5,863.09	5,648.31	40.15	23.94	174.98	-803.73	711.36	856.17	823.49	32.68	26.202	
6,200.00	5,745.90	5,960.69	5,745.90	40.53	24.05	175.14	-803.73	711.36	877.87	844.94	32.94	26.655	
6,300.00	5,844.19	6,058.98	5,844.19	40.86	24.15	175.27	-803.73	711.36	896.17	863.02	33.15	27.033	
6,400.00	5,943.07	6,157.86	5,943.07	41.13	24.26	175.37	-803.73	711.36	911.04	877.72	33.32	27.341	
6,500.00	6,042.41	6,257.19	6,042.41	41.36	24.37	175.45	-803.73	711.36	922.46	889.02	33.45	27.581	
6,600.00	6,142.08	6,356.87	6,142.08	41.53	24.49	175.50	-803.73	711.36	930.43	896.90	33.52	27.756	
6,700.00	6,241.97	6,456.76	6,241.97	41.65	24.60	175.53	-803.73	711.36	934.91	901.36	33.55	27.867	
6,779.04	6,321.00	6,535.79	6,321.00	41.72	24.69	-49.87	-803.73	711.36	936.00	902.46	33.54	27.907	
6,800.00	6,341.96	6,556.75	6,341.96	41.73	24.72	-49.87	-803.73	711.36	936.00	902.39	33.61	27.851	
6,900.00	6,441.96	6,656.75	6,441.96	41.80	24.84	-49.87	-803.73	711.36	936.00	902.07	33.93	27.584	
7,000.00	6,541.96	6,756.75	6,541.96	41.86	24.95	-49.87	-803.73	711.36	936.00	901.74	34.26	27.320	
7,100.00	6,641.96	6,856.75	6,641.96	41.93	25.08	-49.87	-803.73	711.36	936.00	901.41	34.59	27.059	
7,200.00	6,741.96	6,956.75	6,741.96	42.00	25.20	-49.87	-803.73	711.36	936.00	901.08	34.92	26.801	
7,300.00	6,841.96	7,056.75	6,841.96	42.07	25.32	-49.87	-803.73	711.36	936.00	900.74	35.26	26.547	
7,400.00	6,941.96	7,156.75	6,941.96	42.14	25.45	-49.87	-803.73	711.36	936.00	900.40	35.60	26.295	
7,500.00	7,041.96	7,256.75	7,041.96	42.22	25.57	-49.87	-803.73	711.36	936.00	900.06	35.94	26.046	
7,600.00	7,141.96	7,356.75	7,141.96	42.29	25.70	-49.87	-803.73	711.36	936.00	899.72	36.28	25.800	
7,700.00	7,241.96	7,456.75	7,241.96	42.37	25.83	-49.87	-803.73	711.36	936.00	899.38	36.62	25.558	
7,800.00	7,341.96	7,556.75	7,341.96	42.44	25.96	-49.87	-803.73	711.36	936.00	899.03	36.97	25.318	
7,900.00	7,441.96	7,656.75	7,441.96	42.52	26.09	-49.87	-803.73	711.36	936.00	898.68	37.32	25.081	
8,000.00	7,541.96	7,756.75	7,541.96	42.60	26.23	-49.87	-803.73	711.36	936.00	898.33	37.67	24.848	
8,100.00	7,641.96	7,856.75	7,641.96	42.68	26.36	-49.87	-803.73	711.36	936.00	897.98	38.02	24.617	
8,200.00	7,741.96	7,956.75	7,741.96	42.76	26.50	-49.87	-803.73	711.36	936.00	897.62	38.38	24.390	
8,300.00	7,841.96	8,056.75	7,841.96	42.84	26.63	-49.87	-803.73	711.36	936.00	897.27	38.73	24.165	
8,322.51	7,864.48	8,079.26	7,864.48	42.86	26.66	-49.87	-803.73	711.36	936.00	897.19	38.81	24.115	
8,400.00	7,941.96	8,099.79	7,885.00	42.92	26.69	-49.87	-803.73	711.36	937.73	898.75	38.98	24.058	
8,500.00	8,041.96	8,099.79	7,885.00	43.00	26.69	-49.87	-803.73	711.36	949.07	909.93	39.14	24.248	
8,600.00	8,141.96	8,099.79	7,885.00	43.09	26.69	-49.87	-803.73	711.36	970.63	931.33	39.30	24.697	
8,700.00	8,241.96	8,099.79	7,885.00	43.17	26.69	-49.87	-803.73	711.36	1,001.76	962.29	39.47	25.383	
8,751.04	8,293.00	8,099.79	7,885.00	43.22	26.69	-49.87	-803.73	711.36	1,021.06	981.51	39.55	25.817	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - UPRR 42 PAN AM 'AM-TRUE #1 EXISTING - UPRR 42 PAN AM 'AM-TR												Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-92.52	-5.20	-118.15	118.26				
100.00	100.00	100.00	100.00	0.10	1.70	-92.52	-5.20	-118.15	118.26	116.47	1.80	65.864	
200.00	200.00	200.00	200.00	0.32	5.70	-92.52	-5.20	-118.15	118.26	112.24	6.02	19.644	
300.00	300.00	300.00	300.00	0.55	9.70	-92.52	-5.20	-118.15	118.26	108.02	10.25	11.543	
400.00	400.00	400.00	400.00	0.77	13.70	-92.52	-5.20	-118.15	118.26	103.79	14.47	8.173	
500.00	500.00	500.00	500.00	0.99	17.70	-92.52	-5.20	-118.15	118.26	99.57	18.69	6.326	
600.00	600.00	600.00	600.00	1.22	21.70	-92.52	-5.20	-118.15	118.26	95.34	22.92	5.160	
700.00	700.00	700.00	700.00	1.44	25.70	-92.52	-5.20	-118.15	118.26	91.12	27.14	4.357	
800.00	800.00	800.00	800.00	1.67	29.70	-92.52	-5.20	-118.15	118.26	86.89	31.37	3.770	
900.00	900.00	900.00	900.00	1.89	33.70	-92.52	-5.20	-118.15	118.26	82.67	35.59	3.323	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	37.70	-92.52	-5.20	-118.15	118.26	78.44	39.82	2.970	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	41.70	-92.52	-5.20	-118.15	118.26	74.22	44.04	2.685	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	45.70	-92.52	-5.20	-118.15	118.26	69.99	48.27	2.450	
1,250.00	1,250.00	1,250.00	1,250.00	2.68	47.70	-92.52	-5.20	-118.15	118.26	67.88	50.38	2.347 CC	
1,300.00	1,300.00	1,300.00	1,300.00	2.78	49.70	133.03	-5.20	-118.15	118.56	66.08	52.48	2.259	
1,400.00	1,399.93	1,399.93	1,399.93	2.96	53.70	134.21	-5.20	-118.15	120.97	64.34	56.63	2.136 ES	
1,500.00	1,499.68	1,499.68	1,499.68	3.15	57.69	136.41	-5.20	-118.15	125.93	65.20	60.73	2.074	
1,600.00	1,599.13	1,599.13	1,599.13	3.36	61.67	139.39	-5.20	-118.15	133.71	68.95	64.76	2.065 SF	
1,700.00	1,698.15	1,698.15	1,698.15	3.60	65.63	142.84	-5.20	-118.15	144.59	75.90	68.69	2.105	
1,800.00	1,796.63	1,796.63	1,796.63	3.87	69.57	146.45	-5.20	-118.15	158.83	86.35	72.48	2.191	
1,900.00	1,894.44	1,894.44	1,894.44	4.18	73.48	149.98	-5.20	-118.15	176.62	100.51	76.11	2.321	
2,000.00	1,991.46	1,991.46	1,991.46	4.54	77.36	153.26	-5.20	-118.15	198.06	118.50	79.55	2.490	
2,100.00	2,087.58	2,087.58	2,087.58	4.97	81.20	156.22	-5.20	-118.15	223.17	140.38	82.79	2.696	
2,200.00	2,182.68	2,182.68	2,182.68	5.46	85.01	158.82	-5.20	-118.15	251.93	166.13	85.80	2.936	
2,300.00	2,276.65	2,276.65	2,276.65	6.03	88.77	161.08	-5.20	-118.15	284.29	195.70	88.59	3.209	
2,400.00	2,369.36	2,369.36	2,369.36	6.67	92.47	163.02	-5.20	-118.15	320.17	229.03	91.14	3.513	
2,500.00	2,460.71	2,460.71	2,460.71	7.38	96.13	164.67	-5.20	-118.15	359.49	266.05	93.44	3.847	
2,600.00	2,550.59	2,550.59	2,550.59	8.17	99.72	166.09	-5.20	-118.15	402.17	306.69	95.48	4.212	
2,700.00	2,638.88	2,638.88	2,638.88	9.04	103.26	167.30	-5.20	-118.15	448.12	350.87	97.26	4.608	
2,713.86	2,650.98	2,650.98	2,650.98	9.16	103.74	167.45	-5.20	-118.15	454.75	357.26	97.48	4.665	
2,800.00	2,726.12	2,726.12	2,726.12	9.96	106.74	168.51	-5.20	-118.15	496.17	395.85	100.32	4.946	
2,900.00	2,813.35	2,813.35	2,813.35	10.91	110.23	169.53	-5.20	-118.15	544.39	440.75	103.63	5.253	
3,000.00	2,900.57	2,900.57	2,900.57	11.87	113.72	170.38	-5.20	-118.15	592.72	485.74	106.97	5.541	
3,100.00	2,987.80	2,987.80	2,987.80	12.84	117.21	171.11	-5.20	-118.15	641.13	530.81	110.33	5.811	
3,200.00	3,075.03	3,075.03	3,075.03	13.82	120.70	171.74	-5.20	-118.15	689.62	575.92	113.70	6.065	
3,300.00	3,162.25	3,162.25	3,162.25	14.80	124.19	172.28	-5.20	-118.15	738.16	621.08	117.08	6.305	
3,400.00	3,249.48	3,249.48	3,249.48	15.79	127.68	172.76	-5.20	-118.15	786.75	666.28	120.47	6.531	
3,500.00	3,336.70	3,336.70	3,336.70	16.79	131.17	173.18	-5.20	-118.15	835.37	711.51	123.87	6.744	
3,600.00	3,423.93	3,423.93	3,423.93	17.79	134.66	173.56	-5.20	-118.15	884.03	756.76	127.27	6.946	
3,700.00	3,511.16	3,511.16	3,511.16	18.80	138.15	173.89	-5.20	-118.15	932.71	802.03	130.68	7.137	
3,800.00	3,598.38	3,598.38	3,598.38	19.81	141.64	174.20	-5.20	-118.15	981.41	847.32	134.09	7.319	
3,900.00	3,685.61	3,685.61	3,685.61	20.82	145.12	174.47	-5.20	-118.15	1,030.13	892.62	137.51	7.491	
4,000.00	3,772.84	3,772.84	3,772.84	21.83	148.61	174.72	-5.20	-118.15	1,078.87	937.94	140.93	7.655	
4,100.00	3,860.06	3,860.06	3,860.06	22.84	152.10	174.95	-5.20	-118.15	1,127.62	983.27	144.35	7.812	
4,200.00	3,947.29	3,947.29	3,947.29	23.86	155.59	175.16	-5.20	-118.15	1,176.39	1,028.61	147.78	7.961	
4,300.00	4,034.52	4,034.52	4,034.52	24.88	159.08	175.35	-5.20	-118.15	1,225.16	1,073.96	151.21	8.103	
4,400.00	4,121.74	4,121.74	4,121.74	25.89	162.57	175.53	-5.20	-118.15	1,273.95	1,119.31	154.64	8.238	
4,500.00	4,208.97	4,208.97	4,208.97	26.91	166.06	175.70	-5.20	-118.15	1,322.74	1,164.67	158.07	8.368	
4,600.00	4,296.20	4,296.20	4,296.20	27.93	169.55	175.85	-5.20	-118.15	1,371.55	1,210.04	161.50	8.492	
4,700.00	4,383.42	4,383.42	4,383.42	28.95	173.04	175.99	-5.20	-118.15	1,420.35	1,255.42	164.94	8.611	
4,800.00	4,470.65	4,470.65	4,470.65	29.98	176.53	176.12	-5.20	-118.15	1,469.17	1,300.80	168.37	8.726	
4,900.00	4,557.87	4,557.87	4,557.87	31.00	180.01	176.25	-5.20	-118.15	1,517.99	1,346.18	171.81	8.835	

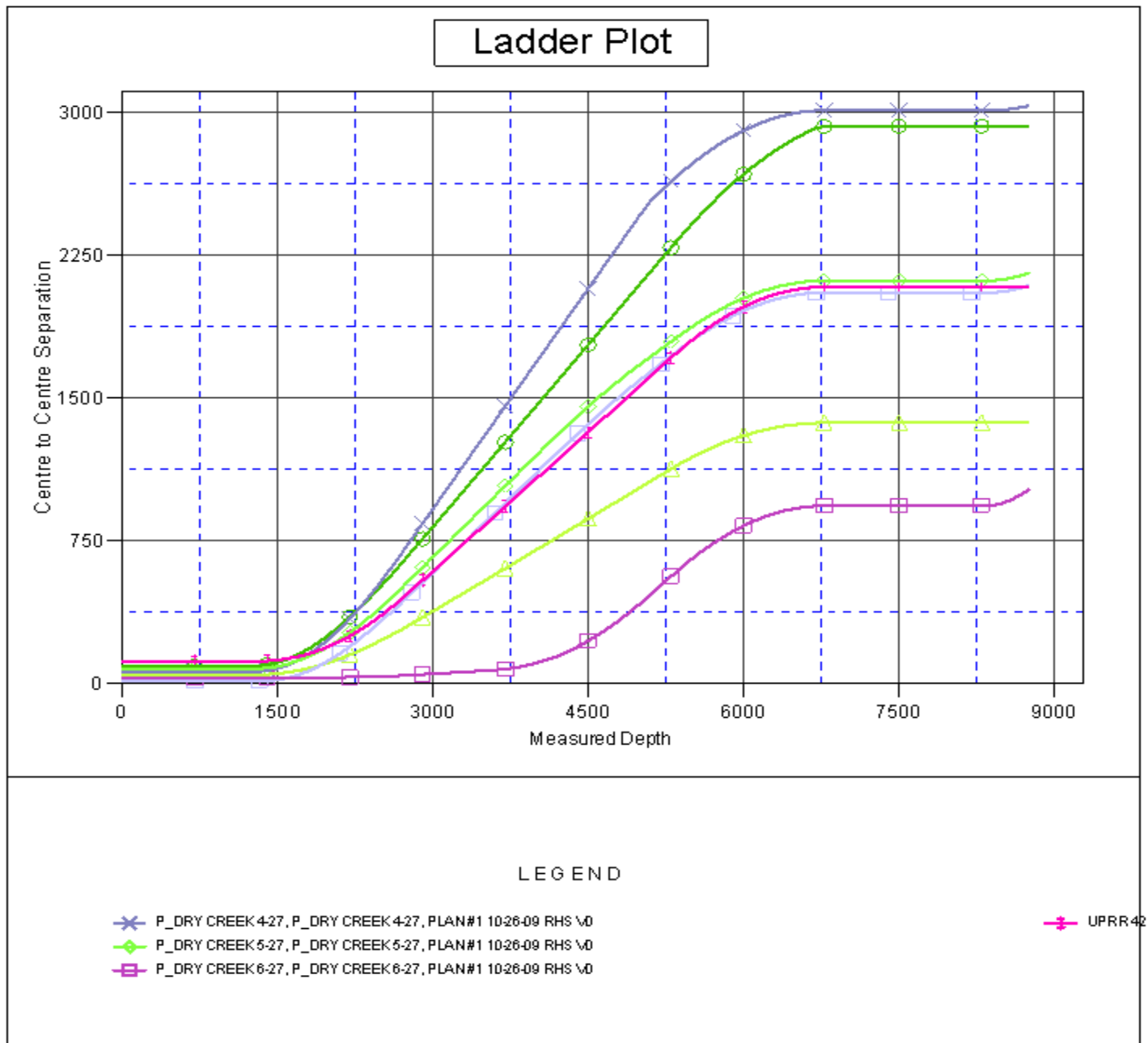
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_DRY CREEK PAD 7 - UPRR 42 PAN AM 'AM-TRUE #1 EXISTING - UPRR 42 PAN AM 'AM-TR												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
5,000.00	4,645.10	4,645.10	4,645.10	32.02	183.50	176.37	-5.20	-118.15	1,566.82	1,391.57	175.25	8.940	
5,100.00	4,732.33	4,732.33	4,732.33	33.05	186.99	176.48	-5.20	-118.15	1,615.65	1,436.96	178.69	9.042	
5,200.00	4,819.55	4,819.55	4,819.55	34.07	190.48	176.58	-5.20	-118.15	1,664.48	1,482.35	182.13	9.139	
5,300.00	4,906.78	4,906.78	4,906.78	35.10	193.97	176.68	-5.20	-118.15	1,713.32	1,527.75	185.57	9.233	
5,315.18	4,920.02	4,920.02	4,920.02	35.25	194.50	176.69	-5.20	-118.15	1,720.73	1,534.64	186.10	9.246	
5,400.00	4,994.61	4,994.61	4,994.61	36.01	197.48	176.82	-5.20	-118.15	1,761.07	1,569.35	191.72	9.186	
5,500.00	5,084.04	5,084.04	5,084.04	36.76	201.06	176.95	-5.20	-118.15	1,805.76	1,607.49	198.27	9.108	
5,600.00	5,174.97	5,174.97	5,174.97	37.45	204.70	177.07	-5.20	-118.15	1,847.30	1,642.58	204.72	9.024	
5,700.00	5,267.30	5,267.30	5,267.30	38.10	208.39	177.17	-5.20	-118.15	1,885.66	1,674.56	211.10	8.932	
5,800.00	5,360.91	5,360.91	5,360.91	38.69	212.14	177.26	-5.20	-118.15	1,920.77	1,703.32	217.46	8.833	
5,900.00	5,455.69	5,455.69	5,455.69	39.23	215.93	177.33	-5.20	-118.15	1,952.60	1,728.94	223.66	8.730	
6,000.00	5,551.53	5,551.53	5,551.53	39.72	219.76	177.40	-5.20	-118.15	1,981.11	1,751.41	229.71	8.625	
6,100.00	5,648.31	5,648.31	5,648.31	40.15	223.63	177.45	-5.20	-118.15	2,006.26	1,770.70	235.56	8.517	
6,200.00	5,745.90	5,745.90	5,745.90	40.53	227.54	177.50	-5.20	-118.15	2,028.02	1,786.81	241.21	8.408	
6,300.00	5,844.19	5,844.19	5,844.19	40.86	231.47	177.54	-5.20	-118.15	2,046.37	1,799.73	246.63	8.297	
6,400.00	5,943.07	5,943.07	5,943.07	41.13	235.42	177.57	-5.20	-118.15	2,061.27	1,809.47	251.81	8.186	
6,500.00	6,042.41	6,042.41	6,042.41	41.36	239.40	177.59	-5.20	-118.15	2,072.72	1,816.01	256.71	8.074	
6,600.00	6,142.08	6,142.08	6,142.08	41.53	243.38	177.61	-5.20	-118.15	2,080.70	1,819.37	261.33	7.962	
6,700.00	6,241.97	6,241.97	6,241.97	41.65	247.38	177.62	-5.20	-118.15	2,085.20	1,819.56	265.64	7.850	
6,779.04	6,321.00	6,321.00	6,321.00	41.72	250.54	-47.78	-5.20	-118.15	2,086.29	1,817.46	268.82	7.761	
6,800.00	6,341.96	6,341.96	6,341.96	41.73	251.38	-47.78	-5.20	-118.15	2,086.29	1,816.60	269.69	7.736	
6,900.00	6,441.96	6,441.96	6,441.96	41.80	255.38	-47.78	-5.20	-118.15	2,086.29	1,812.46	273.83	7.619	
7,000.00	6,541.96	6,541.96	6,541.96	41.86	259.38	-47.78	-5.20	-118.15	2,086.29	1,808.31	277.97	7.505	
7,100.00	6,641.96	6,641.96	6,641.96	41.93	263.38	-47.78	-5.20	-118.15	2,086.29	1,804.17	282.12	7.395	
7,200.00	6,741.96	6,741.96	6,741.96	42.00	267.38	-47.78	-5.20	-118.15	2,086.29	1,800.03	286.26	7.288	
7,300.00	6,841.96	6,841.96	6,841.96	42.07	271.38	-47.78	-5.20	-118.15	2,086.29	1,795.88	290.41	7.184	
7,400.00	6,941.96	6,941.96	6,941.96	42.14	275.38	-47.78	-5.20	-118.15	2,086.29	1,791.73	294.56	7.083	
7,500.00	7,041.96	7,041.96	7,041.96	42.22	279.38	-47.78	-5.20	-118.15	2,086.29	1,787.58	298.71	6.984	
7,600.00	7,141.96	7,141.96	7,141.96	42.29	283.38	-47.78	-5.20	-118.15	2,086.29	1,783.43	302.86	6.889	
7,700.00	7,241.96	7,241.96	7,241.96	42.37	287.38	-47.78	-5.20	-118.15	2,086.29	1,779.28	307.01	6.795	
7,800.00	7,341.96	7,341.96	7,341.96	42.44	291.38	-47.78	-5.20	-118.15	2,086.29	1,775.12	311.16	6.705	
7,900.00	7,441.96	7,441.96	7,441.96	42.52	295.38	-47.78	-5.20	-118.15	2,086.29	1,770.97	315.32	6.616	
8,000.00	7,541.96	7,541.96	7,541.96	42.60	299.38	-47.78	-5.20	-118.15	2,086.29	1,766.81	319.48	6.530	
8,100.00	7,641.96	7,641.96	7,641.96	42.68	303.38	-47.78	-5.20	-118.15	2,086.29	1,762.65	323.63	6.446	
8,200.00	7,741.96	7,741.96	7,741.96	42.76	307.38	-47.78	-5.20	-118.15	2,086.29	1,758.49	327.79	6.365	
8,300.00	7,841.96	7,841.96	7,841.96	42.84	311.38	-47.78	-5.20	-118.15	2,086.29	1,754.33	331.95	6.285	
8,400.00	7,941.96	7,941.96	7,941.96	42.92	315.38	-47.78	-5.20	-118.15	2,086.29	1,750.17	336.12	6.207	
8,500.00	8,041.96	8,041.96	8,041.96	43.00	319.38	-47.78	-5.20	-118.15	2,086.29	1,746.01	340.28	6.131	
8,600.00	8,141.96	8,141.96	8,141.96	43.09	323.38	-47.78	-5.20	-118.15	2,086.29	1,741.85	344.44	6.057	
8,665.29	8,207.26	8,207.26	8,207.26	43.14	325.99	-47.78	-5.20	-118.15	2,086.29	1,739.13	347.16	6.010	
8,700.00	8,241.96	8,238.00	8,238.00	43.17	327.22	-47.78	-5.20	-118.15	2,086.29	1,737.84	348.45	5.987	
8,751.04	8,293.00	8,238.00	8,238.00	43.22	327.22	-47.78	-5.20	-118.15	2,087.01	1,738.48	348.53	5.988	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

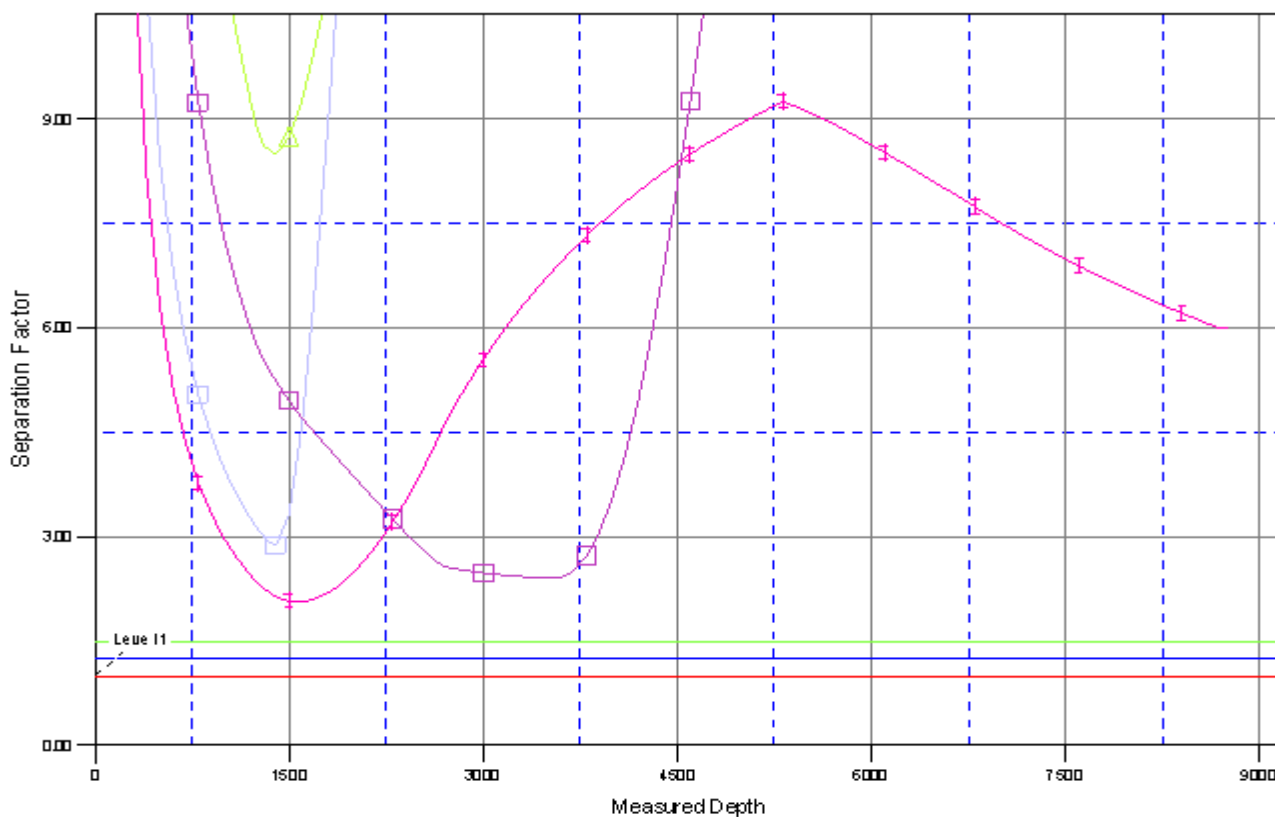
Reference Depths are relative to WELL @ 5023.00ft (Original Well Elev) Coordinates are relative to: P_DRY CREEK 25-27
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.40°



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_DRY CREEK 25-27
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5023.00ft (Original Well Elev)
Reference Site:	WELD_DRY CREEK PAD 7	MD Reference:	WELL @ 5023.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	P_DRY CREEK 25-27	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_DRY CREEK 25-27	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 10-26-09 RHS	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5023.00ft (Original Well Elev) Coordinates are relative to: P_DRY CREEK 25-27
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: 0.40°

Separation Factor Plot



LEGEND

- ✕ P_DRY CREEK 4-27, P_DRY CREEK 4-27, PLAN#1 10-26-09 RHS \0
- ◇ P_DRY CREEK 5-27, P_DRY CREEK 5-27, PLAN#1 10-26-09 RHS \0
- ⊠ P_DRY CREEK 6-27, P_DRY CREEK 6-27, PLAN#1 10-26-09 RHS \0

✕ UPRR42