



US ROCKIES REGION PLANNING

KERR MCGEE OIL & GAS ONSHORE LP

WELD_STATE 5 PAD

P_STATE 26-16

P_STATE 26-16

Plan: PLAN #1 09-10-09 RHS

Standard Planning Report

10 September, 2009



Weatherford®



P_STATE 26-16
KERR MCGEE OIL & GAS ONSHORE LP
SECTION 16 T1N R68W
332 FNL 2503 FWL
LAT: 40° 3' 26.892 N
LONG: 105° 0' 33.264 W

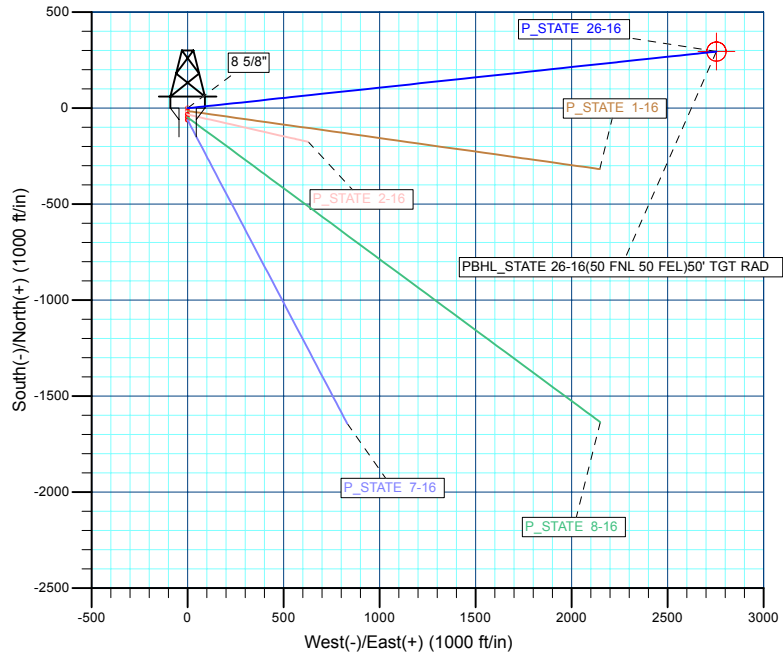
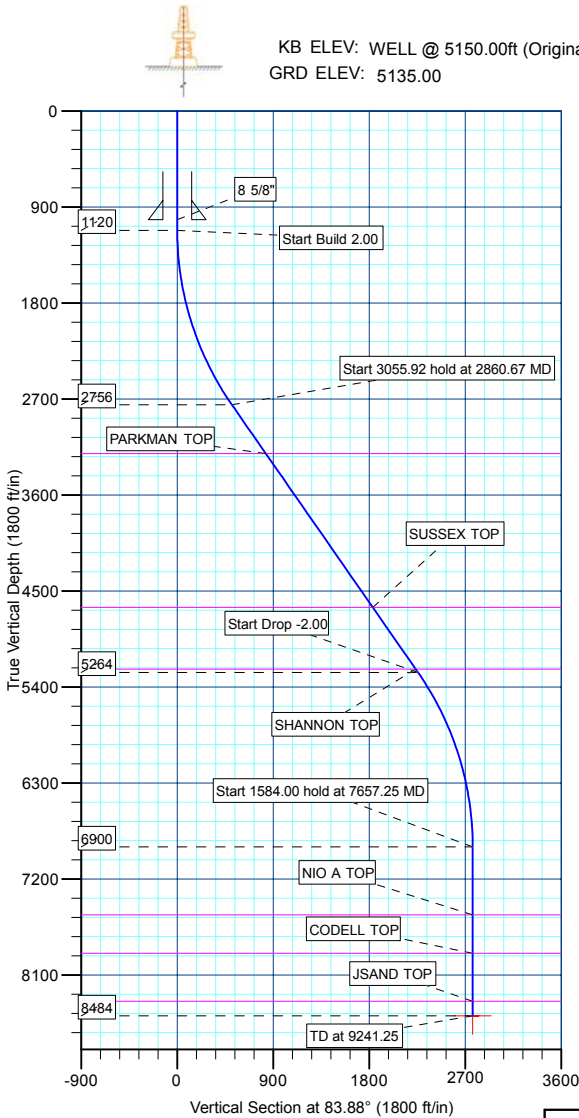


WELL DETAILS: P_STATE 26-16								
+N/-S	+E/-W	Northing	Easting	Ground Level:	5135.00	Latitude	Longitude	Slot
0.00	0.00	1264161.84	3137371.61			40° 3' 26.892 N	105° 0' 33.264 W	

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		
1120.00	0.00	0.00	1120.00	0.00	0.00	0.00	0.00	0.00		
2860.67	34.81	83.88	2755.52	54.65	509.83	2.00	83.88	512.75		
5916.58	34.81	83.88	5264.48	240.58	2244.53	0.00	0.00	2257.39		
5233.00	5878.24									
7538.00	8295.25									
7898.00	8655.25									
8348.00	9105.25									
										PBHL_STATE 26-16(50 FNL 50 FEL)50' TGT RAD

FORMATION TOP DETAILS		
TVDPath	MDPath	FORMATION
3212.00	3416.66	PARKMAN TOP
4654.00	5173.02	SUSSEX TOP
5233.00	5878.24	SHANNON TOP
7538.00	8295.25	NIO A TOP
7898.00	8655.25	CODELL TOP
8348.00	9105.25	JSAND TOP

CASING DETAILS			
TVD	MD	Name	Size
1020.00	1020.00	8 5/8"	8.62



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8484.00	295.23	2754.36	1264472.30	3140124.29	40° 3' 29.808 N	104° 59' 57.840 W	Circle (Radius: 50.00)	

Plan: PLAN #1 09-10-09 RHS (P_STATE 26-16/P_STATE 26-16)

Created By: Robert H. Scott



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_STATE 26-16
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site:	WELD_STATE 5 PAD	North Reference:	True
Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_STATE 26-16		
Design:	PLAN #1 09-10-09 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_STATE 5 PAD, SECTION 16 T1N R68W				
Site Position:		Northing:	1,264,147.28 ft	Latitude:	40° 3' 26.748 N
From:	Lat/Long	Easting:	3,137,371.69 ft	Longitude:	105° 0' 33.264 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.32 °

Well	P_STATE 26-16					
Well Position	+N/-S	14.56 ft	Northing:	1,264,161.84 ft	Latitude:	40° 3' 26.892 N
	+E/-W	0.00 ft	Easting:	3,137,371.61 ft	Longitude:	105° 0' 33.264 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,135.00 ft

Wellbore	P_STATE 26-16				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/10/2009	9.16	66.80	53,126

Design	PLAN #1 09-10-09 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	83.88

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	
1,120.00	0.00	0.00	1,120.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,860.67	34.81	83.88	2,755.52	54.65	509.83	2.00	2.00	0.00	83.88	
5,916.58	34.81	83.88	5,264.48	240.58	2,244.53	0.00	0.00	0.00	0.00	
7,657.25	0.00	0.00	6,900.00	295.23	2,754.36	2.00	-2.00	0.00	180.00	
9,241.25	0.00	0.00	8,484.00	295.23	2,754.36	0.00	0.00	0.00	0.00	PBHL_STATE 26-1



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_STATE 26-16
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site:	WELD_STATE 5 PAD	North Reference:	True
Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_STATE 26-16		
Design:	PLAN #1 09-10-09 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									
1,120.00	0.00	0.00	1,120.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	1.60	83.88	1,199.99	0.12	1.11	1.12	2.00	2.00	0.00
1,300.00	3.60	83.88	1,299.88	0.60	5.62	5.65	2.00	2.00	0.00
1,400.00	5.60	83.88	1,399.55	1.46	13.59	13.67	2.00	2.00	0.00
1,500.00	7.60	83.88	1,498.89	2.68	25.02	25.17	2.00	2.00	0.00
1,600.00	9.60	83.88	1,597.76	4.28	39.89	40.12	2.00	2.00	0.00
1,700.00	11.60	83.88	1,696.05	6.24	58.18	58.51	2.00	2.00	0.00
1,800.00	13.60	83.88	1,793.63	8.56	79.87	80.33	2.00	2.00	0.00
1,900.00	15.60	83.88	1,890.40	11.25	104.93	105.53	2.00	2.00	0.00
2,000.00	17.60	83.88	1,986.23	14.29	133.34	134.10	2.00	2.00	0.00
2,100.00	19.60	83.88	2,081.00	17.69	165.05	165.99	2.00	2.00	0.00
2,200.00	21.60	83.88	2,174.60	21.44	200.03	201.18	2.00	2.00	0.00
2,300.00	23.60	83.88	2,266.92	25.54	238.24	239.60	2.00	2.00	0.00
2,400.00	25.60	83.88	2,357.83	29.97	279.63	281.23	2.00	2.00	0.00
2,500.00	27.60	83.88	2,447.25	34.74	324.15	326.00	2.00	2.00	0.00
2,600.00	29.60	83.88	2,535.04	39.84	371.74	373.87	2.00	2.00	0.00
2,700.00	31.60	83.88	2,621.11	45.27	422.35	424.77	2.00	2.00	0.00
2,800.00	33.60	83.88	2,705.35	51.01	475.92	478.65	2.00	2.00	0.00
Start 3055.92 hold at 2860.67 MD									
2,860.67	34.81	83.88	2,755.52	54.65	509.83	512.75	2.00	2.00	0.00
2,900.00	34.81	83.88	2,787.81	57.04	532.16	535.21	0.00	0.00	0.00
3,000.00	34.81	83.88	2,869.92	63.12	588.92	592.30	0.00	0.00	0.00
3,100.00	34.81	83.88	2,952.02	69.21	645.69	649.39	0.00	0.00	0.00
3,200.00	34.81	83.88	3,034.12	75.29	702.45	706.48	0.00	0.00	0.00
3,300.00	34.81	83.88	3,116.22	81.38	759.22	763.57	0.00	0.00	0.00
3,400.00	34.81	83.88	3,198.32	87.46	815.98	820.66	0.00	0.00	0.00
PARKMAN TOP									
3,416.66	34.81	83.88	3,212.00	88.47	825.44	830.17	0.00	0.00	0.00
3,500.00	34.81	83.88	3,280.42	93.55	872.75	877.75	0.00	0.00	0.00
3,600.00	34.81	83.88	3,362.53	99.63	929.52	934.84	0.00	0.00	0.00
3,700.00	34.81	83.88	3,444.63	105.71	986.28	991.93	0.00	0.00	0.00
3,800.00	34.81	83.88	3,526.73	111.80	1,043.05	1,049.02	0.00	0.00	0.00
3,900.00	34.81	83.88	3,608.83	117.88	1,099.81	1,106.11	0.00	0.00	0.00
4,000.00	34.81	83.88	3,690.93	123.97	1,156.58	1,163.20	0.00	0.00	0.00
4,100.00	34.81	83.88	3,773.03	130.05	1,213.34	1,220.29	0.00	0.00	0.00
4,200.00	34.81	83.88	3,855.14	136.14	1,270.11	1,277.38	0.00	0.00	0.00
4,300.00	34.81	83.88	3,937.24	142.22	1,326.87	1,334.47	0.00	0.00	0.00
4,400.00	34.81	83.88	4,019.34	148.30	1,383.64	1,391.56	0.00	0.00	0.00
4,500.00	34.81	83.88	4,101.44	154.39	1,440.40	1,448.65	0.00	0.00	0.00
4,600.00	34.81	83.88	4,183.54	160.47	1,497.17	1,505.74	0.00	0.00	0.00
4,700.00	34.81	83.88	4,265.64	166.56	1,553.93	1,562.83	0.00	0.00	0.00
4,800.00	34.81	83.88	4,347.75	172.64	1,610.70	1,619.92	0.00	0.00	0.00
4,900.00	34.81	83.88	4,429.85	178.73	1,667.46	1,677.02	0.00	0.00	0.00
5,000.00	34.81	83.88	4,511.95	184.81	1,724.23	1,734.11	0.00	0.00	0.00
5,100.00	34.81	83.88	4,594.05	190.90	1,780.99	1,791.20	0.00	0.00	0.00
SUSSEX TOP									
5,173.02	34.81	83.88	4,654.00	195.34	1,822.44	1,832.88	0.00	0.00	0.00
5,200.00	34.81	83.88	4,676.15	196.98	1,837.76	1,848.29	0.00	0.00	0.00
5,300.00	34.81	83.88	4,758.25	203.06	1,894.53	1,905.38	0.00	0.00	0.00
5,400.00	34.81	83.88	4,840.36	209.15	1,951.29	1,962.47	0.00	0.00	0.00
5,500.00	34.81	83.88	4,922.46	215.23	2,008.06	2,019.56	0.00	0.00	0.00
5,600.00	34.81	83.88	5,004.56	221.32	2,064.82	2,076.65	0.00	0.00	0.00



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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site:	WELD_STATE 5 PAD	North Reference:	True
Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_STATE 26-16		
Design:	PLAN #1 09-10-09 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)	
5,700.00	34.81	83.88	5,086.66	227.40	2,121.59	2,133.74	0.00	0.00	0.00	
5,800.00	34.81	83.88	5,168.76	233.49	2,178.35	2,190.83	0.00	0.00	0.00	
SHANNON TOP										
5,878.24	34.81	83.88	5,233.00	238.25	2,222.77	2,235.50	0.00	0.00	0.00	
5,900.00	34.81	83.88	5,250.86	239.57	2,235.12	2,247.92	0.00	0.00	0.00	
Start Drop -2.00										
5,916.58	34.81	83.88	5,264.48	240.58	2,244.53	2,257.39	0.00	0.00	0.00	
6,000.00	33.14	83.88	5,333.65	245.55	2,290.88	2,304.01	2.00	-2.00	0.00	
6,100.00	31.14	83.88	5,418.32	251.22	2,343.79	2,357.21	2.00	-2.00	0.00	
6,200.00	29.14	83.88	5,504.79	256.57	2,393.72	2,407.43	2.00	-2.00	0.00	
6,300.00	27.14	83.88	5,592.96	261.60	2,440.62	2,454.59	2.00	-2.00	0.00	
6,400.00	25.14	83.88	5,682.72	266.29	2,484.43	2,498.66	2.00	-2.00	0.00	
6,500.00	23.14	83.88	5,773.97	270.65	2,525.10	2,539.56	2.00	-2.00	0.00	
6,600.00	21.14	83.88	5,866.59	274.67	2,562.57	2,577.25	2.00	-2.00	0.00	
6,700.00	19.14	83.88	5,960.46	278.34	2,596.82	2,611.69	2.00	-2.00	0.00	
6,800.00	17.14	83.88	6,055.49	281.66	2,627.78	2,642.83	2.00	-2.00	0.00	
6,900.00	15.14	83.88	6,151.54	284.62	2,655.43	2,670.64	2.00	-2.00	0.00	
7,000.00	13.14	83.88	6,248.50	287.23	2,679.72	2,695.07	2.00	-2.00	0.00	
7,100.00	11.14	83.88	6,346.26	289.47	2,700.64	2,716.11	2.00	-2.00	0.00	
7,200.00	9.14	83.88	6,444.69	291.34	2,718.15	2,733.72	2.00	-2.00	0.00	
7,300.00	7.14	83.88	6,543.68	292.85	2,732.24	2,747.89	2.00	-2.00	0.00	
7,400.00	5.14	83.88	6,643.10	294.00	2,742.88	2,758.60	2.00	-2.00	0.00	
7,500.00	3.14	83.88	6,742.83	294.77	2,750.07	2,765.82	2.00	-2.00	0.00	
7,600.00	1.14	83.88	6,842.75	295.16	2,753.79	2,769.57	2.00	-2.00	0.00	
Start 1584.00 hold at 7657.25 MD										
7,657.25	0.00	0.00	6,900.00	295.23	2,754.36	2,770.14	2.00	-2.00	-146.52	
7,700.00	0.00	0.00	6,942.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,042.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,142.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,242.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,342.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,442.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
NIO A TOP										
8,295.25	0.00	0.00	7,538.00	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,300.00	0.00	0.00	7,542.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,400.00	0.00	0.00	7,642.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,500.00	0.00	0.00	7,742.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,600.00	0.00	0.00	7,842.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
CODELL TOP										
8,655.25	0.00	0.00	7,898.00	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,700.00	0.00	0.00	7,942.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,042.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,142.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,242.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,342.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
JSAND TOP										
9,105.25	0.00	0.00	8,348.00	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,442.75	295.23	2,754.36	2,770.14	0.00	0.00	0.00	
PBHL_STATE 26-16(50 FNL 50 FEL)50' TGT RAD										
9,241.25	0.00	0.00	8,484.00	295.23	2,754.36	2,770.14	0.00	0.00	0.00	



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_STATE 26-16
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site:	WELD_STATE 5 PAD	North Reference:	True
Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_STATE 26-16		
Design:	PLAN #1 09-10-09 RHS		

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_STATE 26-16: - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,484.00	295.23	2,754.36	1,264,472.30	3,140,124.29	40° 3' 29.808 N	104° 59' 57.840 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,020.00	1,020.00	8 5/8"	8.62	11.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,416.66	3,212.00	PARKMAN TOP			
5,173.02	4,654.00	SUSSEX TOP			
5,878.24	5,233.00	SHANNON TOP			
8,295.25	7,538.00	NIO A TOP			
8,655.25	7,898.00	CODELL TOP			
9,105.25	8,348.00	JSAND TOP			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,120.00	1,120.00	0.00	0.00	Start Build 2.00
2,860.67	2,755.52	54.65	509.83	Start 3055.92 hold at 2860.67 MD
5,916.58	5,264.48	240.58	2,244.53	Start Drop -2.00
7,657.25	6,900.00	295.23	2,754.36	Start 1584.00 hold at 7657.25 MD
9,241.25	8,484.00	295.23	2,754.36	TD at 9241.25



US ROCKIES REGION PLANNING

**KERR MCGEE OIL & GAS ONSHORE LP
WELD_STATE 5 PAD
P_STATE 26-16**

**P_STATE 26-16
PLAN #1 09-10-09 RHS**

Anticollision Report

10 September, 2009



Weatherford®



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 RHS	Offset TVD Reference:	Offset Datum

Reference	PLAN #1 09-10-09 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	9/10/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	9,241.25	PLAN #1 09-10-09 RHS (P_STATE 26-16)	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_STATE 5 PAD						
P_STATE 1-16 - P_STATE 1-16 - PLAN #1 09-09-09 RH	200.00	200.00	14.56	13.92	22.733	CC, ES
P_STATE 1-16 - P_STATE 1-16 - PLAN #1 09-09-09 RH	5,800.00	5,764.69	551.20	457.52	5.884	SF
P_STATE 2-16 - P_STATE 2-16 - PLAN #1 09-09-09 RH	1,120.00	1,120.00	32.79	28.01	6.865	CC, ES
P_STATE 2-16 - P_STATE 2-16 - PLAN #1 09-09-09 RH	1,400.00	1,399.22	37.26	31.32	6.269	SF
P_STATE 7-16 - P_STATE 7-16 - PLAN #1 09-09-09 RH	1,120.00	1,120.00	61.93	57.15	12.966	CC, ES
P_STATE 7-16 - P_STATE 7-16 - PLAN #1 09-09-09 RH	1,300.00	1,296.41	67.51	62.02	12.314	SF
P_STATE 8-16 - P_STATE 8-16 - PLAN #1 09-10-09 RH	1,120.00	1,120.00	47.36	42.58	9.915	CC, ES
P_STATE 8-16 - P_STATE 8-16 - PLAN #1 09-10-09 RH	1,300.00	1,298.16	51.30	45.80	9.329	SF

Offset Design	WELD_STATE 5 PAD - P_STATE 1-16 - P_STATE 1-16 - PLAN #1 09-09-09 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	
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-14.56	0.00	14.56				
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-14.56	0.00	14.56	14.37	0.19	76.224	
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-14.56	0.00	14.56	13.92	0.64	22.733	CC, ES
300.00	300.00	299.80	299.76	0.55	0.53	170.19	-14.93	2.58	15.15	14.07	1.08	14.074	
400.00	400.00	399.06	398.70	0.77	0.77	147.33	-16.01	10.26	19.06	17.54	1.52	12.516	
500.00	500.00	497.26	496.06	0.99	1.05	127.88	-17.78	22.86	29.23	27.20	2.03	14.395	
600.00	600.00	593.89	591.11	1.22	1.40	116.75	-20.21	40.08	45.76	43.14	2.62	17.466	
700.00	700.00	688.53	683.22	1.44	1.82	110.68	-23.23	61.53	67.88	64.58	3.29	20.607	
800.00	800.00	780.77	771.86	1.67	2.32	107.15	-26.78	86.77	95.07	91.01	4.05	23.458	
900.00	900.00	870.31	856.63	1.89	2.88	104.95	-30.79	115.29	126.97	122.08	4.89	25.953	
1,000.00	1,000.00	956.87	937.21	2.12	3.51	103.50	-35.20	146.57	163.29	157.49	5.81	28.128	
1,100.00	1,100.00	1,040.27	1,013.43	2.34	4.18	102.50	-39.92	180.11	203.78	197.00	6.78	30.047	
1,120.00	1,120.00	1,056.56	1,028.13	2.39	4.32	102.33	-40.89	187.04	212.36	205.37	6.99	30.401	
1,200.00	1,199.99	1,120.82	1,085.56	2.56	4.91	17.73	-44.91	215.59	247.23	241.99	5.25	47.122	
1,300.00	1,299.88	1,200.00	1,154.93	2.76	5.68	17.14	-50.23	253.37	291.51	285.78	5.73	50.912	
1,400.00	1,399.55	1,276.16	1,220.11	2.98	6.52	16.77	-55.72	292.37	336.43	330.22	6.21	54.146	
1,500.00	1,498.89	1,354.90	1,285.79	3.22	7.43	16.54	-61.78	335.37	381.94	375.22	6.72	56.799	
1,600.00	1,597.76	1,439.97	1,355.77	3.48	8.46	16.44	-68.52	383.26	426.33	419.05	7.28	58.572	
1,700.00	1,696.05	1,530.97	1,430.63	3.78	9.58	16.47	-75.73	434.49	467.73	459.85	7.87	59.411	
1,800.00	1,793.63	1,623.27	1,506.57	4.12	10.72	16.60	-83.05	486.45	506.07	497.58	8.49	59.600	

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_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 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			
1,900.00	1,890.40	1,716.78	1,583.50	4.52	11.88	16.81	-90.46	539.09	541.32	532.19	9.14	59.257			
2,000.00	1,986.23	1,811.36	1,661.31	4.97	13.06	17.10	-97.95	592.34	573.46	563.65	9.81	58.475			
2,100.00	2,081.00	1,906.91	1,739.91	5.50	14.25	17.46	-105.53	646.13	602.46	591.95	10.51	57.326			
2,200.00	2,174.60	2,003.31	1,819.22	6.09	15.45	17.88	-113.17	700.40	628.32	617.07	11.25	55.867			
2,300.00	2,266.92	2,100.44	1,899.12	6.76	16.67	18.38	-120.86	755.08	651.02	639.00	12.02	54.145			
2,400.00	2,357.83	2,198.19	1,979.54	7.51	17.89	18.95	-128.61	810.11	670.57	657.73	12.85	52.196			
2,500.00	2,447.25	2,296.43	2,060.36	8.33	19.12	19.60	-136.40	865.42	686.98	673.26	13.73	50.052			
2,600.00	2,535.04	2,395.04	2,141.48	9.24	20.36	20.32	-144.21	920.93	700.27	685.60	14.67	47.739			
2,700.00	2,621.11	2,493.91	2,222.82	10.22	21.60	21.14	-152.05	976.59	710.46	694.77	15.69	45.283			
2,800.00	2,705.35	2,592.92	2,304.27	11.29	22.85	22.05	-159.90	1,032.33	717.59	700.79	16.80	42.706			
2,860.67	2,755.52	2,652.99	2,353.69	11.97	23.60	22.66	-164.66	1,066.15	720.45	702.92	17.53	41.094			
2,900.00	2,787.81	2,691.94	2,385.73	12.43	24.09	23.07	-167.74	1,088.08	721.97	703.93	18.04	40.019			
3,000.00	2,869.92	2,790.96	2,467.19	13.60	25.33	24.13	-175.59	1,143.82	726.01	706.62	19.38	37.456			
3,100.00	2,952.02	2,889.97	2,548.65	14.78	26.58	25.17	-183.44	1,199.57	730.28	709.49	20.79	35.122			
3,200.00	3,034.12	2,988.99	2,630.11	15.98	27.82	26.19	-191.29	1,255.31	734.81	712.54	22.27	32.997			
3,300.00	3,116.22	3,088.01	2,711.57	17.18	29.07	27.21	-199.13	1,311.05	739.56	715.75	23.81	31.063			
3,400.00	3,198.32	3,187.03	2,793.03	18.39	30.32	28.21	-206.98	1,366.80	744.55	719.14	25.41	29.301			
3,500.00	3,280.42	3,286.04	2,874.48	19.60	31.56	29.20	-214.83	1,422.54	749.77	722.70	27.07	27.695			
3,600.00	3,362.53	3,385.06	2,955.94	20.82	32.81	30.17	-222.68	1,478.28	755.21	726.42	28.79	26.230			
3,700.00	3,444.63	3,484.08	3,037.40	22.05	34.05	31.13	-230.52	1,534.03	760.87	730.30	30.57	24.891			
3,800.00	3,526.73	3,583.10	3,118.86	23.27	35.30	32.08	-238.37	1,589.77	766.74	734.34	32.40	23.667			
3,900.00	3,608.83	3,682.11	3,200.32	24.50	36.55	33.01	-246.22	1,645.51	772.82	738.54	34.28	22.546			
4,000.00	3,690.93	3,781.13	3,281.78	25.73	37.79	33.92	-254.07	1,701.26	779.10	742.89	36.21	21.518			
4,100.00	3,773.03	3,890.29	3,371.71	26.97	39.13	34.93	-262.69	1,762.53	785.44	747.14	38.30	20.506			
4,200.00	3,855.14	4,034.52	3,493.95	28.20	40.57	36.41	-273.36	1,838.28	788.01	747.11	40.90	19.268			
4,300.00	3,937.24	4,177.57	3,619.70	29.44	41.83	38.15	-282.85	1,905.74	785.24	741.56	43.68	17.977			
4,400.00	4,019.34	4,318.35	3,747.39	30.68	42.90	40.17	-291.12	1,964.43	777.41	730.74	46.67	16.656			
4,500.00	4,101.44	4,455.91	3,875.42	31.92	43.79	42.50	-298.12	2,014.16	764.89	714.99	49.89	15.331			
4,600.00	4,183.54	4,589.38	4,002.32	33.16	44.52	45.16	-303.88	2,055.07	748.14	694.78	53.36	14.020			
4,700.00	4,265.64	4,718.10	4,126.78	34.40	45.08	48.19	-308.45	2,087.53	727.76	670.68	57.08	12.750			
4,800.00	4,347.75	4,841.54	4,247.68	35.64	45.51	51.61	-311.91	2,112.11	704.43	643.39	61.04	11.540			
4,900.00	4,429.85	4,959.35	4,364.16	36.89	45.81	55.45	-314.36	2,129.53	678.93	613.72	65.21	10.411			
5,000.00	4,511.95	5,071.34	4,475.58	38.13	46.02	59.70	-315.91	2,140.57	652.22	582.68	69.53	9.380			
5,100.00	4,594.05	5,177.42	4,581.50	39.37	46.14	64.37	-316.69	2,146.04	625.34	551.46	73.89	8.463			
5,200.00	4,676.15	5,272.08	4,676.15	40.62	46.20	69.12	-316.82	2,147.00	599.68	521.72	77.96	7.692			
5,300.00	4,758.25	5,354.18	4,758.25	41.86	46.24	73.55	-316.82	2,147.00	577.95	496.42	81.53	7.089			
5,400.00	4,840.36	5,436.28	4,840.36	43.11	46.28	78.19	-316.82	2,147.00	561.20	476.35	84.85	6.614			
5,500.00	4,922.46	5,518.38	4,922.46	44.36	46.32	82.99	-316.82	2,147.00	549.90	462.09	87.81	6.262			
5,600.00	5,004.56	5,600.48	5,004.56	45.60	46.36	87.89	-316.82	2,147.00	544.38	454.06	90.31	6.028			
5,642.67	5,039.59	5,635.51	5,039.59	46.14	46.38	90.00	-316.82	2,147.00	543.83	452.61	91.22	5.961			
5,700.00	5,086.66	5,682.58	5,086.66	46.85	46.40	92.83	-316.82	2,147.00	544.81	452.53	92.29	5.904			
5,800.00	5,168.76	5,764.69	5,168.76	48.10	46.44	97.72	-316.82	2,147.00	551.20	457.52	93.68	5.884 SF			
5,900.00	5,250.86	5,846.79	5,250.86	49.35	46.49	102.51	-316.82	2,147.00	563.32	468.82	94.51	5.961			
5,916.58	5,264.48	5,860.40	5,264.48	49.55	46.49	103.28	-316.82	2,147.00	565.87	471.28	94.59	5.982			
6,000.00	5,333.65	5,929.57	5,333.65	50.49	46.53	107.36	-316.82	2,147.00	580.48	485.79	94.69	6.130			
6,100.00	5,418.32	6,014.24	5,418.32	51.47	46.58	111.96	-316.82	2,147.00	601.16	506.91	94.25	6.378			
6,200.00	5,504.79	6,100.71	5,504.79	52.39	46.62	116.20	-316.82	2,147.00	624.22	530.80	93.41	6.682			
6,300.00	5,592.96	6,188.88	5,592.96	53.25	46.67	120.05	-316.82	2,147.00	648.67	556.36	92.31	7.027			
6,400.00	5,682.72	6,278.64	5,682.72	54.04	46.73	123.50	-316.82	2,147.00	673.70	582.64	91.06	7.398			
6,500.00	5,773.97	6,369.89	5,773.97	54.77	46.78	126.56	-316.82	2,147.00	698.63	608.87	89.75	7.784			
6,600.00	5,866.59	6,462.51	5,866.59	55.44	46.83	129.24	-316.82	2,147.00	722.88	634.43	88.46	8.172			
6,700.00	5,960.46	6,556.39	5,960.46	56.05	46.89	131.58	-316.82	2,147.00	746.02	658.81	87.22	8.554			

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_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft	
WELD_STATE 5 PAD - P_STATE 1-16 - P_STATE 1-16 - PLAN #1 09-09-09 RHS												Offset Well Error:	0.00 ft	
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
6,800.00	6,055.49	6,651.41	6,055.49	56.59	46.95	133.59	-316.82	2,147.00	767.68	681.61	86.07	8.919		
6,900.00	6,151.54	6,747.46	6,151.54	57.07	47.01	135.32	-316.82	2,147.00	787.55	702.52	85.02	9.263		
7,000.00	6,248.50	6,844.42	6,248.50	57.49	47.07	136.77	-316.82	2,147.00	805.40	721.30	84.10	9.577		
7,100.00	6,346.26	6,942.18	6,346.26	57.86	47.13	137.98	-316.82	2,147.00	821.04	737.75	83.29	9.857		
7,200.00	6,444.69	7,040.61	6,444.69	58.17	47.20	138.96	-316.82	2,147.00	834.32	751.71	82.61	10.100		
7,300.00	6,543.68	7,139.60	6,543.68	58.42	47.26	139.73	-316.82	2,147.00	845.11	763.06	82.05	10.301		
7,400.00	6,643.10	7,239.02	6,643.10	58.62	47.33	140.30	-316.82	2,147.00	853.33	771.73	81.60	10.457		
7,500.00	6,742.83	7,338.75	6,742.83	58.77	47.39	140.67	-316.82	2,147.00	858.91	777.63	81.28	10.567		
7,600.00	6,842.75	7,438.68	6,842.75	58.87	47.46	140.87	-316.82	2,147.00	861.81	780.72	81.09	10.628		
7,657.25	6,900.00	7,495.92	6,900.00	58.90	47.50	-135.22	-316.82	2,147.00	862.26	781.22	81.03	10.641		
7,700.00	6,942.75	7,538.67	6,942.75	58.92	47.53	-135.22	-316.82	2,147.00	862.26	781.16	81.10	10.632		
7,800.00	7,042.75	7,638.67	7,042.75	58.98	47.60	-135.22	-316.82	2,147.00	862.26	781.01	81.25	10.612		
7,900.00	7,142.75	7,738.67	7,142.75	59.04	47.68	-135.22	-316.82	2,147.00	862.26	780.85	81.41	10.592		
8,000.00	7,242.75	7,838.67	7,242.75	59.10	47.75	-135.22	-316.82	2,147.00	862.26	780.69	81.57	10.571		
8,100.00	7,342.75	7,938.67	7,342.75	59.15	47.82	-135.22	-316.82	2,147.00	862.26	780.53	81.73	10.550		
8,200.00	7,442.75	8,038.67	7,442.75	59.21	47.90	-135.22	-316.82	2,147.00	862.26	780.36	81.89	10.529		
8,300.00	7,542.75	8,138.67	7,542.75	59.27	47.97	-135.22	-316.82	2,147.00	862.26	780.20	82.06	10.508		
8,400.00	7,642.75	8,238.67	7,642.75	59.34	48.05	-135.22	-316.82	2,147.00	862.26	780.03	82.23	10.486		
8,500.00	7,742.75	8,338.67	7,742.75	59.40	48.12	-135.22	-316.82	2,147.00	862.26	779.86	82.40	10.465		
8,600.00	7,842.75	8,438.67	7,842.75	59.46	48.20	-135.22	-316.82	2,147.00	862.26	779.69	82.57	10.443		
8,700.00	7,942.75	8,538.67	7,942.75	59.53	48.28	-135.22	-316.82	2,147.00	862.26	779.51	82.74	10.421		
8,800.00	8,042.75	8,638.67	8,042.75	59.59	48.36	-135.22	-316.82	2,147.00	862.26	779.34	82.92	10.399		
8,900.00	8,142.75	8,647.92	8,052.00	59.66	48.37	-135.22	-316.82	2,147.00	867.02	784.01	83.01	10.444		
9,000.00	8,242.75	8,647.92	8,052.00	59.72	48.37	-135.22	-316.82	2,147.00	883.10	800.00	83.10	10.627		
9,100.00	8,342.75	8,647.92	8,052.00	59.79	48.37	-135.22	-316.82	2,147.00	909.96	826.77	83.19	10.938		
9,200.00	8,442.75	8,647.92	8,052.00	59.86	48.37	-135.22	-316.82	2,147.00	946.66	863.39	83.28	11.367		
9,241.25	8,484.00	8,647.92	8,052.00	59.89	48.37	-135.22	-316.82	2,147.00	964.42	881.11	83.32	11.575		



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 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				Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	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	-180.00	-32.79	0.00	32.79						
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-32.79	0.00	32.79	32.60	0.19	171.625			
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-32.79	0.00	32.79	32.15	0.64	51.186			
300.00	300.00	300.00	300.00	0.55	0.55	-180.00	-32.79	0.00	32.79	31.70	1.09	30.079			
400.00	400.00	400.00	400.00	0.77	0.77	-180.00	-32.79	0.00	32.79	31.25	1.54	21.297			
500.00	500.00	500.00	500.00	0.99	0.99	-180.00	-32.79	0.00	32.79	30.80	1.99	16.484			
600.00	600.00	600.00	600.00	1.22	1.22	-180.00	-32.79	0.00	32.79	30.35	2.44	13.445			
700.00	700.00	700.00	700.00	1.44	1.44	-180.00	-32.79	0.00	32.79	29.90	2.89	11.353			
800.00	800.00	800.00	800.00	1.67	1.67	-180.00	-32.79	0.00	32.79	29.45	3.34	9.824			
900.00	900.00	900.00	900.00	1.89	1.89	-180.00	-32.79	0.00	32.79	29.00	3.79	8.658			
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-180.00	-32.79	0.00	32.79	28.55	4.24	7.739			
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-180.00	-32.79	0.00	32.79	28.10	4.69	6.997			
1,120.00	1,120.00	1,120.00	1,120.00	2.39	2.39	-180.00	-32.79	0.00	32.79	28.01	4.78	6.865 CC, ES			
1,200.00	1,199.99	1,199.80	1,199.79	2.56	2.55	96.15	-33.03	1.08	33.15	28.04	5.11	6.485			
1,300.00	1,299.88	1,299.53	1,299.41	2.76	2.75	96.28	-34.03	5.48	34.64	29.12	5.52	6.279			
1,400.00	1,399.55	1,399.22	1,398.78	2.98	2.96	96.48	-35.79	13.26	37.26	31.32	5.94	6.269 SF			
1,500.00	1,498.89	1,498.87	1,497.76	3.22	3.19	96.72	-38.32	24.40	41.02	34.61	6.41	6.403			
1,600.00	1,597.76	1,598.44	1,596.22	3.48	3.45	96.97	-41.60	38.87	45.91	38.99	6.92	6.632			
1,700.00	1,696.05	1,697.92	1,694.01	3.78	3.74	97.19	-45.62	56.66	51.92	44.41	7.51	6.916			
1,800.00	1,793.63	1,797.50	1,791.31	4.12	4.08	97.87	-50.30	77.28	58.96	50.78	8.18	7.208			
1,900.00	1,890.40	1,897.13	1,888.60	4.52	4.44	101.02	-55.05	98.27	66.66	57.73	8.93	7.466			
2,000.00	1,986.23	1,996.53	1,985.65	4.97	4.82	106.04	-59.79	119.20	75.42	65.69	9.74	7.746			
2,100.00	2,081.00	2,095.59	2,082.37	5.50	5.22	112.10	-64.52	140.06	85.93	75.36	10.58	8.124			
2,200.00	2,174.60	2,194.17	2,178.63	6.09	5.62	118.52	-69.22	160.83	98.86	87.46	11.40	8.669			
2,300.00	2,266.92	2,292.16	2,274.30	6.76	6.03	124.75	-73.90	181.46	114.74	102.56	12.18	9.420			
2,400.00	2,357.83	2,389.44	2,369.29	7.51	6.44	130.48	-78.54	201.95	133.94	121.04	12.90	10.386			
2,500.00	2,447.25	2,485.89	2,463.46	8.33	6.86	135.55	-83.14	222.26	156.65	143.10	13.55	11.557			
2,600.00	2,535.04	2,581.39	2,556.71	9.24	7.28	139.93	-87.70	242.38	182.95	168.79	14.17	12.914			
2,700.00	2,621.11	2,675.83	2,648.92	10.22	7.70	143.66	-92.20	262.27	212.84	198.09	14.75	14.432			
2,800.00	2,705.35	2,769.09	2,739.98	11.29	8.11	146.82	-96.65	281.91	246.26	230.96	15.31	16.090			
2,860.67	2,755.52	2,825.05	2,794.62	11.97	8.36	148.50	-99.32	293.69	268.24	252.60	15.64	17.153			
2,900.00	2,787.81	2,861.17	2,829.88	12.43	8.52	149.64	-101.05	301.30	282.94	267.07	15.88	17.823			
3,000.00	2,869.92	2,952.99	2,919.55	13.60	8.94	152.06	-105.43	320.64	320.70	304.20	16.50	19.439			
3,100.00	2,952.02	3,044.82	3,009.21	14.78	9.35	153.98	-109.81	339.98	358.85	341.71	17.14	20.933			
3,200.00	3,034.12	3,136.65	3,098.87	15.98	9.77	155.53	-114.19	359.32	397.29	379.48	17.81	22.312			
3,300.00	3,116.22	3,228.48	3,188.54	17.18	10.19	156.81	-118.57	378.66	435.93	417.45	18.48	23.586			
3,400.00	3,198.32	3,320.31	3,278.20	18.39	10.61	157.89	-122.95	398.00	474.73	455.56	19.17	24.762			
3,500.00	3,280.42	3,412.14	3,367.86	19.60	11.03	158.80	-127.33	417.34	513.65	493.78	19.87	25.850			
3,600.00	3,362.53	3,503.97	3,457.52	20.82	11.45	159.58	-131.72	436.68	552.66	532.08	20.58	26.859			
3,700.00	3,444.63	3,595.80	3,547.19	22.05	11.87	160.26	-136.10	456.02	591.75	570.46	21.29	27.795			
3,800.00	3,526.73	3,687.63	3,636.85	23.27	12.29	160.86	-140.48	475.36	630.90	608.90	22.01	28.667			
3,900.00	3,608.83	3,779.46	3,726.51	24.50	12.72	161.39	-144.86	494.70	670.11	647.38	22.73	29.481			
4,000.00	3,690.93	3,871.29	3,816.17	25.73	13.14	161.85	-149.24	514.04	709.36	685.90	23.46	30.241			
4,100.00	3,773.03	3,963.12	3,905.84	26.97	13.57	162.27	-153.62	533.38	748.64	724.45	24.19	30.952			
4,200.00	3,855.14	4,054.95	3,995.50	28.20	14.00	162.65	-158.00	552.72	787.95	763.03	24.92	31.620			
4,300.00	3,937.24	4,136.73	4,075.42	29.44	14.33	162.97	-161.84	569.65	827.61	802.01	25.60	32.325			
4,400.00	4,019.34	4,200.00	4,137.53	30.68	14.54	163.26	-164.51	581.42	869.12	842.90	26.22	33.145			
4,500.00	4,101.44	4,281.01	4,217.41	31.92	14.78	163.68	-167.48	594.53	912.44	885.64	26.80	34.052			
4,600.00	4,183.54	4,350.78	4,286.49	33.16	14.96	164.07	-169.64	604.06	957.71	930.37	27.34	35.032			
4,700.00	4,265.64	4,418.94	4,354.18	34.40	15.13	164.49	-171.38	611.78	1,004.84	976.98	27.85	36.077			
4,800.00	4,347.75	4,485.45	4,420.41	35.64	15.28	164.93	-172.75	617.80	1,053.77	1,025.43	28.34	37.186			
4,900.00	4,429.85	4,550.32	4,485.12	36.89	15.40	165.37	-173.75	622.22	1,104.46	1,075.66	28.80	38.352			

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_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												WELD_STATE 5 PAD - P_STATE 2-16 - P_STATE 2-16 - PLAN #1 09-09-09 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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
5,000.00	4,511.95	4,613.54	4,548.26	38.13	15.52	165.81	-174.41	625.15	1,156.86	1,127.60	29.26	39.531		
5,100.00	4,594.05	4,675.10	4,609.81	39.37	15.60	166.25	-174.76	626.70	1,210.93	1,181.21	29.72	40.750		
5,200.00	4,676.15	4,741.45	4,676.15	40.62	15.69	166.74	-174.84	627.02	1,266.55	1,236.39	30.15	42.005		
5,300.00	4,758.25	4,823.55	4,758.25	41.86	15.80	167.30	-174.84	627.02	1,322.64	1,292.06	30.58	43.258		
5,400.00	4,840.36	4,905.65	4,840.36	43.11	15.91	167.82	-174.84	627.02	1,378.82	1,347.80	31.01	44.457		
5,500.00	4,922.46	4,987.75	4,922.46	44.36	16.03	168.29	-174.84	627.02	1,435.07	1,403.60	31.47	45.607		
5,600.00	5,004.56	5,069.86	5,004.56	45.60	16.15	168.74	-174.84	627.02	1,491.38	1,459.45	31.93	46.710		
5,700.00	5,086.66	5,151.96	5,086.66	46.85	16.26	169.15	-174.84	627.02	1,547.75	1,515.35	32.40	47.769		
5,800.00	5,168.76	5,234.06	5,168.76	48.10	16.38	169.53	-174.84	627.02	1,604.17	1,571.29	32.88	48.785		
5,900.00	5,250.86	5,316.16	5,250.86	49.35	16.50	169.88	-174.84	627.02	1,660.63	1,627.26	33.37	49.762		
5,916.58	5,264.48	5,329.78	5,264.48	49.55	16.52	169.94	-174.84	627.02	1,670.00	1,636.55	33.45	49.920		
6,000.00	5,333.65	5,398.95	5,333.65	50.49	16.63	170.40	-174.84	627.02	1,716.15	1,682.17	33.98	50.507		
6,100.00	5,418.32	5,483.61	5,418.32	51.47	16.75	170.88	-174.84	627.02	1,768.84	1,734.27	34.57	51.160		
6,200.00	5,504.79	5,570.08	5,504.79	52.39	16.88	171.31	-174.84	627.02	1,818.60	1,783.45	35.15	51.738		
6,300.00	5,592.96	5,658.26	5,592.96	53.25	17.02	171.68	-174.84	627.02	1,865.37	1,829.67	35.70	52.251		
6,400.00	5,682.72	5,748.02	5,682.72	54.04	17.15	172.01	-174.84	627.02	1,909.07	1,872.85	36.22	52.708		
6,500.00	5,773.97	5,839.27	5,773.97	54.77	17.29	172.30	-174.84	627.02	1,949.65	1,912.95	36.70	53.118		
6,600.00	5,866.59	5,931.88	5,866.59	55.44	17.44	172.55	-174.84	627.02	1,987.06	1,949.91	37.15	53.487		
6,700.00	5,960.46	6,025.76	5,960.46	56.05	17.59	172.77	-174.84	627.02	2,021.25	1,983.70	37.56	53.821		
6,800.00	6,055.49	6,120.78	6,055.49	56.59	17.74	172.96	-174.84	627.02	2,052.18	2,014.26	37.92	54.124		
6,900.00	6,151.54	6,216.84	6,151.54	57.07	17.89	173.12	-174.84	627.02	2,079.79	2,041.56	38.23	54.402		
7,000.00	6,248.50	6,313.80	6,248.50	57.49	18.05	173.26	-174.84	627.02	2,104.07	2,065.57	38.50	54.656		
7,100.00	6,346.26	6,411.56	6,346.26	57.86	18.21	173.37	-174.84	627.02	2,124.97	2,086.25	38.71	54.890		
7,200.00	6,444.69	6,509.99	6,444.69	58.17	18.37	173.47	-174.84	627.02	2,142.47	2,103.59	38.88	55.108		
7,300.00	6,543.68	6,608.97	6,543.68	58.42	18.53	173.54	-174.84	627.02	2,156.55	2,117.55	38.99	55.309		
7,400.00	6,643.10	6,708.39	6,643.10	58.62	18.70	173.60	-174.84	627.02	2,167.18	2,128.13	39.05	55.498		
7,500.00	6,742.83	6,808.13	6,742.83	58.77	18.87	173.64	-174.84	627.02	2,174.37	2,135.31	39.06	55.674		
7,600.00	6,842.75	6,908.05	6,842.75	58.87	19.04	173.65	-174.84	627.02	2,178.09	2,139.08	39.01	55.839		
7,657.25	6,900.00	6,965.30	6,900.00	58.90	19.13	-102.46	-174.84	627.02	2,178.65	2,139.70	38.96	55.927		
7,700.00	6,942.75	7,008.05	6,942.75	58.92	19.21	-102.46	-174.84	627.02	2,178.65	2,139.56	39.09	55.734		
7,800.00	7,042.75	7,108.05	7,042.75	58.98	19.38	-102.46	-174.84	627.02	2,178.65	2,139.24	39.41	55.278		
7,900.00	7,142.75	7,208.05	7,142.75	59.04	19.55	-102.46	-174.84	627.02	2,178.65	2,138.92	39.74	54.826		
8,000.00	7,242.75	7,308.05	7,242.75	59.10	19.72	-102.46	-174.84	627.02	2,178.65	2,138.59	40.06	54.379		
8,100.00	7,342.75	7,408.05	7,342.75	59.15	19.90	-102.46	-174.84	627.02	2,178.65	2,138.26	40.39	53.936		
8,200.00	7,442.75	7,508.05	7,442.75	59.21	20.07	-102.46	-174.84	627.02	2,178.65	2,137.93	40.72	53.498		
8,300.00	7,542.75	7,608.05	7,542.75	59.27	20.25	-102.46	-174.84	627.02	2,178.65	2,137.60	41.06	53.064		
8,400.00	7,642.75	7,708.05	7,642.75	59.34	20.43	-102.46	-174.84	627.02	2,178.65	2,137.26	41.39	52.634		
8,500.00	7,742.75	7,808.05	7,742.75	59.40	20.61	-102.46	-174.84	627.02	2,178.65	2,136.93	41.73	52.209		
8,600.00	7,842.75	7,908.05	7,842.75	59.46	20.78	-102.46	-174.84	627.02	2,178.65	2,136.59	42.07	51.789		
8,700.00	7,942.75	8,008.05	7,942.75	59.53	20.97	-102.46	-174.84	627.02	2,178.65	2,136.25	42.41	51.373		
8,800.00	8,042.75	8,108.05	8,042.75	59.59	21.15	-102.46	-174.84	627.02	2,178.65	2,135.90	42.75	50.962		
8,900.00	8,142.75	8,122.30	8,057.00	59.66	21.17	-102.46	-174.84	627.02	2,180.34	2,137.42	42.92	50.801		
9,000.00	8,242.75	8,122.30	8,057.00	59.72	21.17	-102.46	-174.84	627.02	2,186.56	2,143.50	43.06	50.779		
9,100.00	8,342.75	8,122.30	8,057.00	59.79	21.17	-102.46	-174.84	627.02	2,197.31	2,154.11	43.20	50.860		
9,200.00	8,442.75	8,122.30	8,057.00	59.86	21.17	-102.46	-174.84	627.02	2,212.54	2,169.19	43.35	51.043		
9,241.25	8,484.00	8,122.30	8,057.00	59.89	21.17	-102.46	-174.84	627.02	2,220.10	2,176.70	43.41	51.148		



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 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	-180.00	-61.93	0.00	61.93						
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-61.93	0.00	61.93	61.74	0.19	324.160			
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-61.93	0.00	61.93	61.29	0.64	96.679			
300.00	300.00	300.00	300.00	0.55	0.55	-180.00	-61.93	0.00	61.93	60.84	1.09	56.812			
400.00	400.00	400.00	400.00	0.77	0.77	-180.00	-61.93	0.00	61.93	60.39	1.54	40.224			
500.00	500.00	500.00	500.00	0.99	0.99	-180.00	-61.93	0.00	61.93	59.94	1.99	31.134			
600.00	600.00	600.00	600.00	1.22	1.22	-180.00	-61.93	0.00	61.93	59.49	2.44	25.395			
700.00	700.00	700.00	700.00	1.44	1.44	-180.00	-61.93	0.00	61.93	59.04	2.89	21.443			
800.00	800.00	800.00	800.00	1.67	1.67	-180.00	-61.93	0.00	61.93	58.59	3.34	18.555			
900.00	900.00	900.00	900.00	1.89	1.89	-180.00	-61.93	0.00	61.93	58.14	3.79	16.352			
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-180.00	-61.93	0.00	61.93	57.69	4.24	14.617			
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-180.00	-61.93	0.00	61.93	57.24	4.69	13.215			
1,120.00	1,120.00	1,120.00	1,120.00	2.39	2.39	-180.00	-61.93	0.00	61.93	57.15	4.78	12.966 CC, ES			
1,200.00	1,199.99	1,198.48	1,198.47	2.56	2.54	96.63	-62.88	0.50	63.02	57.92	5.10	12.353			
1,300.00	1,299.88	1,296.41	1,296.30	2.76	2.72	98.54	-66.74	2.53	67.51	62.02	5.48	12.314 SF			
1,400.00	1,399.55	1,393.94	1,393.52	2.98	2.90	101.34	-73.51	6.09	75.59	69.71	5.88	12.854			
1,500.00	1,498.89	1,490.87	1,489.84	3.22	3.11	104.40	-83.15	11.16	87.41	81.11	6.31	13.863			
1,600.00	1,597.76	1,586.99	1,584.93	3.48	3.34	107.27	-95.54	17.68	103.06	96.30	6.77	15.231			
1,700.00	1,696.05	1,682.11	1,678.51	3.78	3.60	109.73	-110.58	25.59	122.54	115.27	7.28	16.842			
1,800.00	1,793.63	1,776.04	1,770.32	4.12	3.90	111.72	-128.13	34.81	145.80	137.95	7.85	18.582			
1,900.00	1,890.40	1,868.62	1,860.13	4.52	4.25	113.26	-148.01	45.27	172.74	164.25	8.49	20.355			
2,000.00	1,986.23	1,959.69	1,947.72	4.97	4.64	114.43	-170.07	56.87	203.27	194.07	9.21	22.082			
2,100.00	2,081.00	2,049.12	2,032.92	5.50	5.07	115.27	-194.12	69.52	237.28	227.27	10.01	23.708			
2,200.00	2,174.60	2,136.79	2,115.58	6.09	5.55	115.86	-219.97	83.11	274.65	263.75	10.90	25.195			
2,300.00	2,266.92	2,222.60	2,195.58	6.76	6.07	116.22	-247.42	97.55	315.26	303.38	11.88	26.629			
2,400.00	2,357.83	2,309.58	2,275.83	7.51	6.65	116.49	-277.11	113.16	358.80	345.82	12.97	27.561			
2,500.00	2,447.25	2,398.37	2,357.64	8.33	7.27	116.96	-307.67	129.23	404.06	389.91	14.15	28.552			
2,600.00	2,535.04	2,486.12	2,438.48	9.24	7.89	117.54	-337.86	145.11	450.94	435.53	15.41	29.269			
2,700.00	2,621.11	2,572.71	2,518.25	10.22	8.52	118.19	-367.66	160.78	499.51	482.78	16.73	29.857			
2,800.00	2,705.35	2,658.04	2,596.87	11.29	9.14	118.86	-397.03	176.23	549.84	531.72	18.12	30.349			
2,860.67	2,755.52	2,709.15	2,643.96	11.97	9.52	119.27	-414.61	185.48	581.26	562.27	18.99	30.614			
2,900.00	2,787.81	2,742.12	2,674.33	12.43	9.77	119.93	-425.96	191.44	601.87	582.31	19.57	30.759			
3,000.00	2,869.92	2,825.94	2,751.56	13.60	10.40	121.43	-454.81	206.61	654.54	633.49	21.05	31.100			
3,100.00	2,952.02	2,909.76	2,828.78	14.78	11.03	122.71	-483.65	221.78	707.49	684.96	22.53	31.402			
3,200.00	3,034.12	2,993.58	2,906.01	15.98	11.67	123.82	-512.50	236.95	760.66	736.64	24.02	31.672			
3,300.00	3,116.22	3,077.40	2,983.23	17.18	12.31	124.78	-541.34	252.12	814.01	788.50	25.51	31.915			
3,400.00	3,198.32	3,161.22	3,060.46	18.39	12.95	125.63	-570.19	267.29	867.51	840.51	27.00	32.135			
3,500.00	3,280.42	3,245.04	3,137.68	19.60	13.60	126.38	-599.03	282.46	921.13	892.64	28.49	32.335			
3,600.00	3,362.53	3,328.86	3,214.91	20.82	14.24	127.05	-627.88	297.63	974.85	944.87	29.98	32.518			
3,700.00	3,444.63	3,412.68	3,292.14	22.05	14.89	127.65	-656.72	312.80	1,028.66	997.19	31.47	32.686			
3,800.00	3,526.73	3,496.50	3,369.36	23.27	15.54	128.19	-685.57	327.97	1,082.54	1,049.58	32.96	32.842			
3,900.00	3,608.83	3,580.33	3,446.59	24.50	16.20	128.68	-714.41	343.14	1,136.48	1,102.03	34.45	32.985			
4,000.00	3,690.93	3,664.15	3,523.81	25.73	16.85	129.12	-743.26	358.31	1,190.48	1,154.53	35.95	33.119			
4,100.00	3,773.03	3,747.97	3,601.04	26.97	17.50	129.53	-772.10	373.48	1,244.52	1,207.09	37.44	33.243			
4,200.00	3,855.14	3,831.79	3,678.26	28.20	18.16	129.90	-800.95	388.65	1,298.61	1,259.68	38.93	33.359			
4,300.00	3,937.24	3,915.61	3,755.49	29.44	18.82	130.25	-829.80	403.82	1,352.73	1,312.31	40.42	33.468			
4,400.00	4,019.34	3,999.43	3,832.71	30.68	19.47	130.56	-858.64	418.99	1,406.88	1,364.97	41.91	33.571			
4,500.00	4,101.44	4,083.25	3,909.94	31.92	20.13	130.86	-887.49	434.16	1,461.06	1,417.67	43.40	33.667			
4,600.00	4,183.54	4,167.07	3,987.16	33.16	20.79	131.13	-916.33	449.33	1,515.27	1,470.38	44.89	33.759			
4,700.00	4,265.64	4,250.89	4,064.39	34.40	21.45	131.39	-945.18	464.50	1,569.50	1,523.13	46.37	33.845			
4,800.00	4,347.75	4,334.71	4,141.61	35.64	22.11	131.62	-974.02	479.67	1,623.75	1,575.89	47.86	33.927			
4,900.00	4,429.85	4,418.53	4,218.84	36.89	22.77	131.84	-1,002.87	494.84	1,678.02	1,628.67	49.35	34.005			

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_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design													WELD_STATE 5 PAD - P_STATE 7-16 - P_STATE 7-16 - PLAN #1 09-09-09 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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,511.95	4,502.35	4,296.07	38.13	23.43	132.05	-1,031.71	510.01	1,732.30	1,681.47	50.83	34.079			
5,100.00	4,594.05	4,586.18	4,373.29	39.37	24.09	132.25	-1,060.56	525.18	1,786.60	1,734.29	52.32	34.150			
5,200.00	4,676.15	4,670.00	4,450.52	40.62	24.75	132.43	-1,089.40	540.35	1,840.92	1,787.12	53.80	34.217			
5,300.00	4,758.25	4,753.82	4,527.74	41.86	25.42	132.61	-1,118.25	555.52	1,895.24	1,839.96	55.28	34.282			
5,400.00	4,840.36	4,837.64	4,604.97	43.11	26.08	132.77	-1,147.10	570.69	1,949.58	1,892.82	56.77	34.344			
5,500.00	4,922.46	4,921.46	4,682.19	44.36	26.74	132.93	-1,175.94	585.86	2,003.93	1,945.68	58.25	34.404			
5,600.00	5,004.56	5,005.28	4,759.42	45.60	27.40	133.07	-1,204.79	601.03	2,058.29	1,998.56	59.73	34.461			
5,700.00	5,086.66	5,089.10	4,836.64	46.85	28.07	133.21	-1,233.63	616.20	2,112.66	2,051.45	61.21	34.516			
5,800.00	5,168.76	5,172.92	4,913.87	48.10	28.73	133.34	-1,262.48	631.37	2,167.04	2,104.35	62.69	34.569			
5,900.00	5,250.86	5,256.74	4,991.09	49.35	29.39	133.47	-1,291.32	646.54	2,221.42	2,157.25	64.17	34.620			
5,916.58	5,264.48	5,270.64	5,003.90	49.55	29.51	133.49	-1,296.11	649.05	2,230.44	2,166.03	64.41	34.629			
6,000.00	5,333.65	5,341.05	5,068.77	50.49	30.06	134.33	-1,320.34	661.79	2,275.10	2,209.59	65.51	34.730			
6,100.00	5,418.32	5,426.68	5,147.66	51.47	30.74	135.20	-1,349.80	677.29	2,326.74	2,260.00	66.75	34.859			
6,200.00	5,504.79	5,513.54	5,227.68	52.39	31.43	135.95	-1,379.69	693.01	2,376.25	2,308.27	67.98	34.956			
6,300.00	5,592.96	5,601.53	5,308.75	53.25	32.13	136.57	-1,409.97	708.93	2,423.56	2,354.36	69.20	35.024			
6,400.00	5,682.72	5,690.54	5,390.76	54.04	32.83	137.09	-1,440.61	725.04	2,468.64	2,398.23	70.40	35.064			
6,500.00	5,773.97	5,810.67	5,502.26	54.77	33.53	137.48	-1,480.15	745.84	2,510.95	2,439.37	71.58	35.080			
6,600.00	5,866.59	5,937.05	5,621.48	55.44	34.18	137.84	-1,517.25	765.35	2,549.72	2,477.06	72.66	35.093			
6,700.00	5,960.46	6,066.59	5,745.46	56.05	34.78	138.20	-1,550.41	782.79	2,584.81	2,511.18	73.63	35.105			
6,800.00	6,055.49	6,198.93	5,873.76	56.59	35.32	138.56	-1,579.14	797.90	2,616.12	2,541.63	74.49	35.122			
6,900.00	6,151.54	6,333.69	6,005.78	57.07	35.78	138.91	-1,602.97	810.43	2,643.53	2,568.32	75.21	35.151			
7,000.00	6,248.50	6,470.40	6,140.87	57.49	36.15	139.27	-1,621.50	820.17	2,666.97	2,591.19	75.79	35.191			
7,100.00	6,346.26	6,608.58	6,278.26	57.86	36.45	139.64	-1,634.41	826.97	2,686.37	2,610.15	76.22	35.245			
7,200.00	6,444.69	6,747.67	6,417.11	58.17	36.65	140.02	-1,641.47	830.68	2,701.69	2,625.19	76.49	35.320			
7,300.00	6,543.68	6,874.25	6,543.68	58.42	36.77	140.38	-1,642.87	831.41	2,712.96	2,636.33	76.63	35.403			
7,400.00	6,643.10	6,973.67	6,643.10	58.62	36.84	140.63	-1,642.87	831.41	2,721.24	2,644.52	76.72	35.469			
7,500.00	6,742.83	7,073.41	6,742.83	58.77	36.91	140.79	-1,642.87	831.41	2,726.84	2,650.05	76.79	35.510			
7,600.00	6,842.75	7,173.33	6,842.75	58.87	36.99	140.88	-1,642.87	831.41	2,729.75	2,652.90	76.84	35.524			
7,657.25	6,900.00	7,230.58	6,900.00	58.90	37.03	-135.22	-1,642.87	831.41	2,730.19	2,653.32	76.86	35.519			
7,700.00	6,942.75	7,273.33	6,942.75	58.92	37.06	-135.22	-1,642.87	831.41	2,730.19	2,653.26	76.93	35.490			
7,800.00	7,042.75	7,373.33	7,042.75	58.98	37.14	-135.22	-1,642.87	831.41	2,730.19	2,653.10	77.09	35.418			
7,900.00	7,142.75	7,473.33	7,142.75	59.04	37.22	-135.22	-1,642.87	831.41	2,730.19	2,652.95	77.24	35.345			
8,000.00	7,242.75	7,573.33	7,242.75	59.10	37.30	-135.22	-1,642.87	831.41	2,730.19	2,652.78	77.40	35.272			
8,100.00	7,342.75	7,673.33	7,342.75	59.15	37.38	-135.22	-1,642.87	831.41	2,730.19	2,652.62	77.57	35.198			
8,200.00	7,442.75	7,773.33	7,442.75	59.21	37.46	-135.22	-1,642.87	831.41	2,730.19	2,652.46	77.73	35.123			
8,300.00	7,542.75	7,873.33	7,542.75	59.27	37.54	-135.22	-1,642.87	831.41	2,730.19	2,652.29	77.90	35.047			
8,400.00	7,642.75	7,973.33	7,642.75	59.34	37.63	-135.22	-1,642.87	831.41	2,730.19	2,652.12	78.07	34.971			
8,500.00	7,742.75	8,073.33	7,742.75	59.40	37.71	-135.22	-1,642.87	831.41	2,730.19	2,651.95	78.24	34.894			
8,600.00	7,842.75	8,173.33	7,842.75	59.46	37.80	-135.22	-1,642.87	831.41	2,730.19	2,651.77	78.42	34.816			
8,700.00	7,942.75	8,273.33	7,942.75	59.53	37.89	-135.22	-1,642.87	831.41	2,730.19	2,651.60	78.59	34.738			
8,800.00	8,042.75	8,373.33	8,042.75	59.59	37.98	-135.22	-1,642.87	831.41	2,730.19	2,651.42	78.77	34.660			
8,900.00	8,142.75	8,473.33	8,142.75	59.66	38.07	-135.22	-1,642.87	831.41	2,730.19	2,651.24	78.95	34.580			
9,000.00	8,242.75	8,573.33	8,242.75	59.72	38.16	-135.22	-1,642.87	831.41	2,730.19	2,651.05	79.14	34.500			
9,100.00	8,342.75	8,673.33	8,342.75	59.79	38.25	-135.22	-1,642.87	831.41	2,730.19	2,650.87	79.32	34.420			
9,200.00	8,442.75	8,773.33	8,442.75	59.86	38.34	-135.22	-1,642.87	831.41	2,730.19	2,650.68	79.51	34.339			
9,217.86	8,460.61	8,791.19	8,460.61	59.87	38.36	-135.22	-1,642.87	831.41	2,730.19	2,650.65	79.54	34.324			
9,241.25	8,484.00	8,797.58	8,467.00	59.89	38.37	-135.22	-1,642.87	831.41	2,730.24	2,650.67	79.57	34.313			



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 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	-180.00	-47.36	0.00	47.36						
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-47.36	0.00	47.36	47.16	0.19	247.870			
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-47.36	0.00	47.36	46.72	0.64	73.926			
300.00	300.00	300.00	300.00	0.55	0.55	-180.00	-47.36	0.00	47.36	46.27	1.09	43.441			
400.00	400.00	400.00	400.00	0.77	0.77	-180.00	-47.36	0.00	47.36	45.82	1.54	30.758			
500.00	500.00	500.00	500.00	0.99	0.99	-180.00	-47.36	0.00	47.36	45.37	1.99	23.807			
600.00	600.00	600.00	600.00	1.22	1.22	-180.00	-47.36	0.00	47.36	44.92	2.44	19.418			
700.00	700.00	700.00	700.00	1.44	1.44	-180.00	-47.36	0.00	47.36	44.47	2.89	16.396			
800.00	800.00	800.00	800.00	1.67	1.67	-180.00	-47.36	0.00	47.36	44.02	3.34	14.188			
900.00	900.00	900.00	900.00	1.89	1.89	-180.00	-47.36	0.00	47.36	43.57	3.79	12.504			
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-180.00	-47.36	0.00	47.36	43.12	4.24	11.177			
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-180.00	-47.36	0.00	47.36	42.67	4.69	10.105			
1,120.00	1,120.00	1,120.00	1,120.00	2.39	2.39	-180.00	-47.36	0.00	47.36	42.58	4.78	9.915 CC, ES			
1,200.00	1,199.99	1,199.21	1,199.20	2.56	2.55	96.36	-48.01	0.88	48.13	43.03	5.11	9.425			
1,300.00	1,299.88	1,298.16	1,298.04	2.76	2.73	97.28	-50.65	4.45	51.30	45.80	5.50	9.329 SF			
1,400.00	1,399.55	1,396.94	1,396.51	2.98	2.93	98.64	-55.30	10.76	56.91	51.00	5.91	9.628			
1,500.00	1,498.89	1,495.46	1,494.38	3.22	3.15	100.16	-61.95	19.76	65.01	58.65	6.36	10.225			
1,600.00	1,597.76	1,593.63	1,591.47	3.48	3.40	101.62	-70.57	31.42	75.58	68.73	6.85	11.032			
1,700.00	1,696.05	1,691.37	1,687.59	3.78	3.68	102.91	-81.10	45.68	88.63	81.22	7.41	11.966			
1,800.00	1,793.63	1,788.60	1,782.54	4.12	4.00	103.97	-93.50	62.47	104.13	96.09	8.04	12.952			
1,900.00	1,890.40	1,885.23	1,876.16	4.52	4.38	104.81	-107.72	81.72	122.04	113.28	8.76	13.925			
2,000.00	1,986.23	1,981.20	1,968.29	4.97	4.81	105.45	-123.69	103.34	142.34	132.75	9.59	14.841			
2,100.00	2,081.00	2,076.44	2,058.77	5.50	5.30	105.91	-141.34	127.23	164.97	154.44	10.53	15.670			
2,200.00	2,174.60	2,170.89	2,147.48	6.09	5.85	106.23	-160.60	153.31	189.89	178.31	11.58	16.396			
2,300.00	2,266.92	2,264.49	2,234.29	6.76	6.47	106.43	-181.39	181.45	217.05	204.29	12.75	17.017			
2,400.00	2,357.83	2,357.20	2,319.10	7.51	7.14	106.52	-203.64	211.56	246.39	232.33	14.05	17.532			
2,500.00	2,447.25	2,448.96	2,401.81	8.33	7.87	106.52	-227.25	243.52	277.86	262.37	15.48	17.948			
2,600.00	2,535.04	2,539.76	2,482.35	9.24	8.66	106.45	-252.14	277.23	311.40	294.36	17.03	18.282			
2,700.00	2,621.11	2,629.54	2,560.65	10.22	9.50	106.30	-278.25	312.56	346.95	328.24	18.71	18.546			
2,800.00	2,705.35	2,718.30	2,636.67	11.29	10.39	106.10	-305.47	349.42	384.45	363.94	20.50	18.751			
2,860.67	2,755.52	2,771.65	2,681.66	11.97	10.96	105.95	-322.50	372.47	408.12	386.47	21.65	18.848			
2,900.00	2,787.81	2,806.06	2,710.39	12.43	11.33	106.13	-333.75	387.70	423.77	401.34	22.42	18.900			
3,000.00	2,869.92	2,895.98	2,784.72	13.60	12.35	106.38	-363.82	428.41	464.01	439.57	24.44	18.985			
3,100.00	2,952.02	2,987.49	2,860.25	14.78	13.40	106.57	-394.51	469.95	504.32	477.82	26.50	19.030			
3,200.00	3,034.12	3,078.99	2,935.77	15.98	14.47	106.74	-425.21	511.50	544.64	516.06	28.58	19.055			
3,300.00	3,116.22	3,170.49	3,011.30	17.18	15.54	106.88	-455.90	553.05	584.96	554.28	30.68	19.066			
3,400.00	3,198.32	3,261.99	3,086.83	18.39	16.62	107.00	-486.59	594.60	625.28	592.49	32.79	19.069			
3,500.00	3,280.42	3,353.50	3,162.36	19.60	17.70	107.11	-517.28	636.15	665.60	630.69	34.91	19.066			
3,600.00	3,362.53	3,445.00	3,237.88	20.82	18.79	107.20	-547.98	677.70	705.93	668.89	37.04	19.059			
3,700.00	3,444.63	3,536.50	3,313.41	22.05	19.88	107.29	-578.67	719.25	746.26	707.08	39.17	19.050			
3,800.00	3,526.73	3,628.00	3,388.94	23.27	20.98	107.37	-609.36	760.80	786.59	745.27	41.32	19.038			
3,900.00	3,608.83	3,719.51	3,464.46	24.50	22.08	107.44	-640.05	802.35	826.92	783.46	43.46	19.026			
4,000.00	3,690.93	3,811.01	3,539.99	25.73	23.18	107.50	-670.75	843.90	867.25	821.64	45.61	19.013			
4,100.00	3,773.03	3,902.51	3,615.52	26.97	24.28	107.56	-701.44	885.45	907.58	859.81	47.77	19.001			
4,200.00	3,855.14	3,994.01	3,691.04	28.20	25.39	107.61	-732.13	927.00	947.91	897.99	49.92	18.988			
4,300.00	3,937.24	4,085.52	3,766.57	29.44	26.49	107.66	-762.82	968.55	988.25	936.16	52.08	18.975			
4,400.00	4,019.34	4,177.02	3,842.10	30.68	27.60	107.70	-793.52	1,010.10	1,028.58	974.34	54.24	18.963			
4,500.00	4,101.44	4,268.52	3,917.63	31.92	28.71	107.74	-824.21	1,051.64	1,068.91	1,012.51	56.41	18.951			
4,600.00	4,183.54	4,360.02	3,993.15	33.16	29.82	107.78	-854.90	1,093.19	1,109.25	1,050.68	58.57	18.939			
4,700.00	4,265.64	4,451.53	4,068.68	34.40	30.93	107.81	-885.59	1,134.74	1,149.58	1,088.85	60.73	18.928			
4,800.00	4,347.75	4,543.03	4,144.21	35.64	32.04	107.85	-916.29	1,176.29	1,189.92	1,127.02	62.90	18.917			
4,900.00	4,429.85	4,634.53	4,219.73	36.89	33.15	107.88	-946.98	1,217.84	1,230.25	1,165.18	65.07	18.907			

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



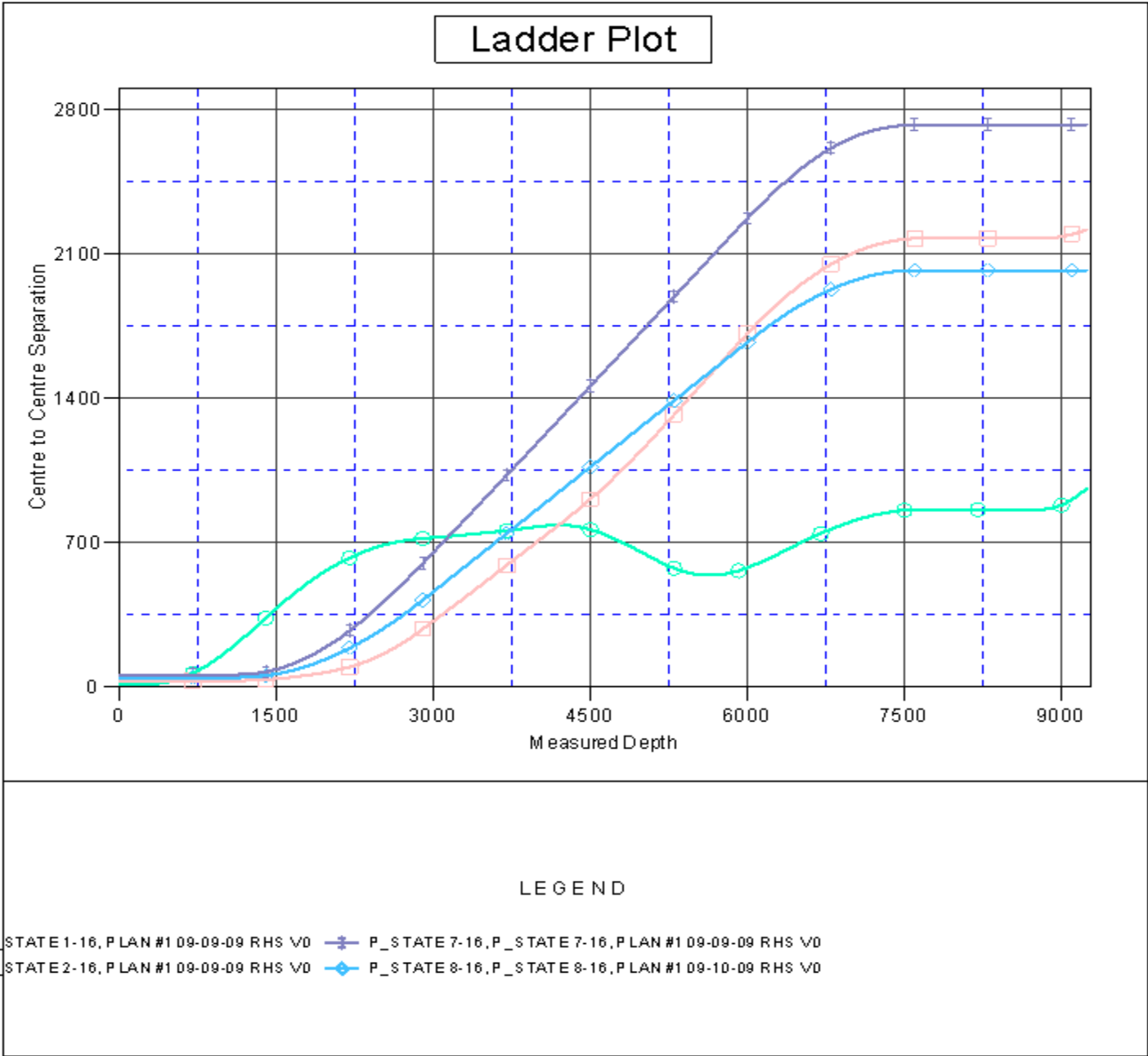
Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,511.95	4,726.03	4,295.26	38.13	34.27	107.91	-977.67	1,259.39	1,270.59	1,203.35	67.24	18.898			
5,100.00	4,594.05	4,817.54	4,370.79	39.37	35.38	107.93	-1,008.36	1,300.94	1,310.92	1,241.52	69.40	18.889			
5,200.00	4,676.15	4,909.04	4,446.31	40.62	36.49	107.96	-1,039.06	1,342.49	1,351.26	1,279.69	71.57	18.880			
5,300.00	4,758.25	5,000.54	4,521.84	41.86	37.61	107.98	-1,069.75	1,384.04	1,391.60	1,317.86	73.74	18.871			
5,400.00	4,840.36	5,092.04	4,597.37	43.11	38.72	108.01	-1,100.44	1,425.59	1,431.93	1,356.02	75.91	18.864			
5,500.00	4,922.46	5,183.54	4,672.90	44.36	39.84	108.03	-1,131.13	1,467.14	1,472.27	1,394.19	78.08	18.856			
5,600.00	5,004.56	5,275.05	4,748.42	45.60	40.96	108.05	-1,161.83	1,508.69	1,512.61	1,432.36	80.25	18.849			
5,700.00	5,086.66	5,366.55	4,823.95	46.85	42.07	108.07	-1,192.52	1,550.24	1,552.94	1,470.53	82.42	18.842			
5,800.00	5,168.76	5,458.05	4,899.48	48.10	43.19	108.08	-1,223.21	1,591.79	1,593.28	1,508.69	84.59	18.836			
5,900.00	5,250.86	5,549.55	4,975.00	49.35	44.31	108.10	-1,253.90	1,633.33	1,633.62	1,546.86	86.76	18.830			
5,916.58	5,264.48	5,564.73	4,987.53	49.55	44.49	108.10	-1,258.99	1,640.22	1,640.31	1,553.19	87.12	18.829			
6,000.00	5,333.65	5,641.20	5,050.65	50.49	45.42	108.76	-1,284.65	1,674.95	1,673.61	1,584.71	88.90	18.827			
6,100.00	5,418.32	5,733.21	5,126.59	51.47	46.55	109.42	-1,315.51	1,716.73	1,712.58	1,621.70	90.88	18.844			
6,200.00	5,504.79	5,831.03	5,207.42	52.39	47.70	109.93	-1,348.24	1,761.04	1,750.46	1,657.61	92.86	18.851			
6,300.00	5,592.96	5,945.82	5,304.09	53.25	48.88	110.33	-1,385.01	1,810.82	1,786.45	1,691.55	94.90	18.825			
6,400.00	5,682.72	6,062.60	5,404.90	54.04	49.92	110.70	-1,420.03	1,858.22	1,820.16	1,723.39	96.77	18.809			
6,500.00	5,773.97	6,181.30	5,509.74	54.77	50.91	111.04	-1,453.09	1,902.98	1,851.52	1,753.00	98.52	18.792			
6,600.00	5,866.59	6,301.83	5,618.47	55.44	51.82	111.36	-1,483.99	1,944.81	1,880.45	1,780.29	100.16	18.775			
6,700.00	5,960.46	6,424.10	5,730.89	56.05	52.66	111.66	-1,512.53	1,983.44	1,906.87	1,805.22	101.65	18.760			
6,800.00	6,055.49	6,547.96	5,846.78	56.59	53.42	111.93	-1,538.51	2,018.61	1,930.71	1,827.72	103.00	18.745			
6,900.00	6,151.54	6,673.29	5,965.83	57.07	54.10	112.19	-1,561.74	2,050.06	1,951.93	1,847.71	104.21	18.731			
7,000.00	6,248.50	6,799.90	6,087.73	57.49	54.69	112.42	-1,582.05	2,077.56	1,970.44	1,865.17	105.28	18.717			
7,100.00	6,346.26	6,927.61	6,212.10	57.86	55.19	112.64	-1,599.27	2,100.87	1,986.22	1,880.03	106.18	18.705			
7,200.00	6,444.69	7,056.23	6,338.54	58.17	55.60	112.84	-1,613.27	2,119.82	1,999.21	1,892.27	106.94	18.694			
7,300.00	6,543.68	7,185.54	6,466.58	58.42	55.93	113.03	-1,623.93	2,134.25	2,009.38	1,901.83	107.55	18.683			
7,400.00	6,643.10	7,315.31	6,595.77	58.62	56.16	113.20	-1,631.17	2,144.05	2,016.71	1,908.70	108.01	18.671			
7,500.00	6,742.83	7,445.31	6,725.60	58.77	56.31	113.36	-1,634.93	2,149.14	2,021.17	1,912.85	108.32	18.659			
7,600.00	6,842.75	7,562.47	6,842.75	58.87	56.39	113.48	-1,635.50	2,149.91	2,022.90	1,914.41	108.50	18.645			
7,657.25	6,900.00	7,619.72	6,900.00	58.90	56.42	-162.62	-1,635.50	2,149.91	2,023.13	1,914.57	108.56	18.636			
7,700.00	6,942.75	7,662.47	6,942.75	58.92	56.44	-162.62	-1,635.50	2,149.91	2,023.13	1,914.52	108.61	18.628			
7,800.00	7,042.75	7,762.47	7,042.75	58.98	56.50	-162.62	-1,635.50	2,149.91	2,023.13	1,914.41	108.73	18.608			
7,900.00	7,142.75	7,862.47	7,142.75	59.04	56.55	-162.62	-1,635.50	2,149.91	2,023.13	1,914.29	108.85	18.587			
8,000.00	7,242.75	7,962.47	7,242.75	59.10	56.61	-162.62	-1,635.50	2,149.91	2,023.13	1,914.16	108.97	18.566			
8,100.00	7,342.75	8,062.47	7,342.75	59.15	56.67	-162.62	-1,635.50	2,149.91	2,023.13	1,914.04	109.09	18.545			
8,200.00	7,442.75	8,162.47	7,442.75	59.21	56.72	-162.62	-1,635.50	2,149.91	2,023.13	1,913.91	109.22	18.524			
8,300.00	7,542.75	8,262.47	7,542.75	59.27	56.78	-162.62	-1,635.50	2,149.91	2,023.13	1,913.79	109.34	18.502			
8,400.00	7,642.75	8,362.47	7,642.75	59.34	56.84	-162.62	-1,635.50	2,149.91	2,023.13	1,913.66	109.47	18.481			
8,500.00	7,742.75	8,462.47	7,742.75	59.40	56.90	-162.62	-1,635.50	2,149.91	2,023.13	1,913.53	109.60	18.459			
8,600.00	7,842.75	8,562.47	7,842.75	59.46	56.97	-162.62	-1,635.50	2,149.91	2,023.13	1,913.40	109.74	18.436			
8,700.00	7,942.75	8,662.47	7,942.75	59.53	57.03	-162.62	-1,635.50	2,149.91	2,023.13	1,913.26	109.87	18.414			
8,800.00	8,042.75	8,762.47	8,042.75	59.59	57.09	-162.62	-1,635.50	2,149.91	2,023.13	1,913.13	110.01	18.391			
8,900.00	8,142.75	8,862.47	8,142.75	59.66	57.16	-162.62	-1,635.50	2,149.91	2,023.13	1,912.99	110.14	18.368			
9,000.00	8,242.75	8,962.47	8,242.75	59.72	57.22	-162.62	-1,635.50	2,149.91	2,023.13	1,912.85	110.28	18.345			
9,100.00	8,342.75	9,062.47	8,342.75	59.79	57.29	-162.62	-1,635.50	2,149.91	2,023.13	1,912.71	110.42	18.322			
9,164.63	8,407.38	9,127.10	8,407.38	59.83	57.33	-162.62	-1,635.50	2,149.91	2,023.13	1,912.62	110.51	18.307			
9,200.00	8,442.75	9,156.72	8,437.00	59.86	57.35	-162.62	-1,635.50	2,149.91	2,023.14	1,912.58	110.56	18.299			
9,241.25	8,484.00	9,156.72	8,437.00	59.89	57.35	-162.62	-1,635.50	2,149.91	2,023.68	1,913.09	110.59	18.299			



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 RHS	Offset TVD Reference:	Offset Datum

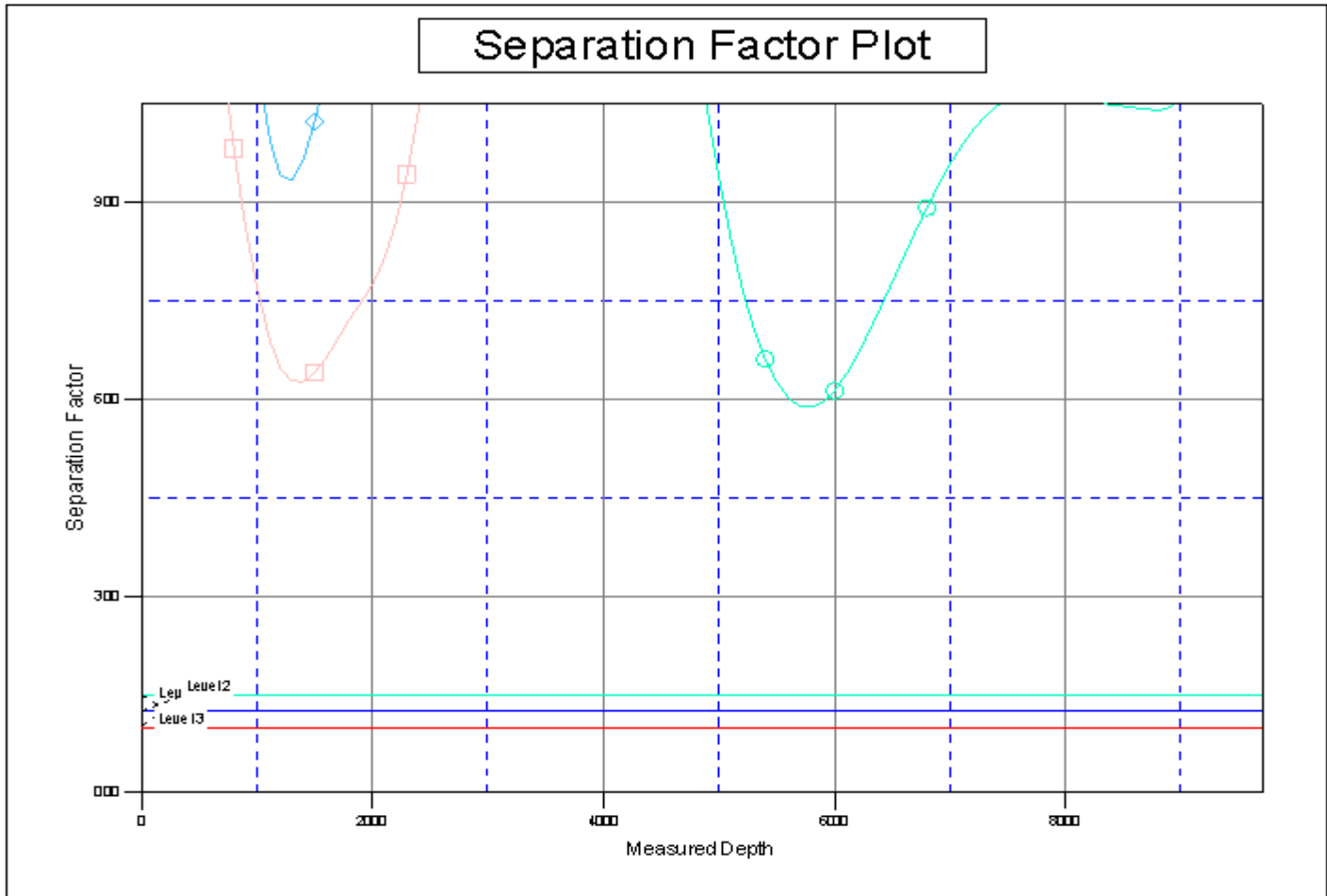
Reference Depths are relative to WELL @ 5150.00ft (Original Well Elev) Coordinates are relative to: P_STATE 26-16
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.32°





Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_STATE 26-16
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5150.00ft (Original Well Elev)
Reference Site:	WELD_STATE 5 PAD	MD Reference:	WELL @ 5150.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_STATE 26-16	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_STATE 26-16	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-10-09 RHS	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5150.00ft (Original Well Elev) Coordinates are relative to: P_STATE 26-16
 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: 0.32°



LEGEND

- ▣ P_STATE 1-16, PLAN #1 09-09-09 RHS V0
- ▣ P_STATE 2-16, PLAN #1 09-09-09 RHS V0
- ◆ P_STATE 7-16, P_STATE 7-16, PLAN #1 09-09-09 RHS V0
- ◆ P_STATE 8-16, P_STATE 8-16, PLAN #1 09-10-09 RHS V0