



US ROCKIES REGION PLANNING

KERR MCGEE OIL & GAS ONSHORE LP

WELD_WORRIES 2 PAD

P_WORRIES 35-14

P_WORRIES 35-14

Plan: PLAN #1 09-01-09 RHS

Standard Planning Report

01 September, 2009





P WORRIES 35-14
KERR MCGEE OIL & GAS ONSHORE LP
SECTION 14 T4N R65W
793 FSL 642 FWL
LAT: 40° 18' 25.812 N
LONG: 104° 38' 14.496 W



Azimuths to True North
Magnetic North: 8.99°
Magnetic Field
Strength: 53304.4nT
Dip Angle: 67.07°
Date: 9/1/2009
Model: IGRF200510

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3625.00	3753.85	PARKMAN TOP
4270.00	4404.43	SUSSEX TOP
6746.00	6880.43	NIO A TOP
7050.00	7184.43	CODELL TOP
7499.00	7633.43	JSAND TOP

WELL DETAILS: P_WORRIES 35-14

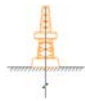
+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1355913.23	3240579.36	4697.00	40° 18' 25.812 N	104° 38' 14.496 W	

SECTION DETAILS

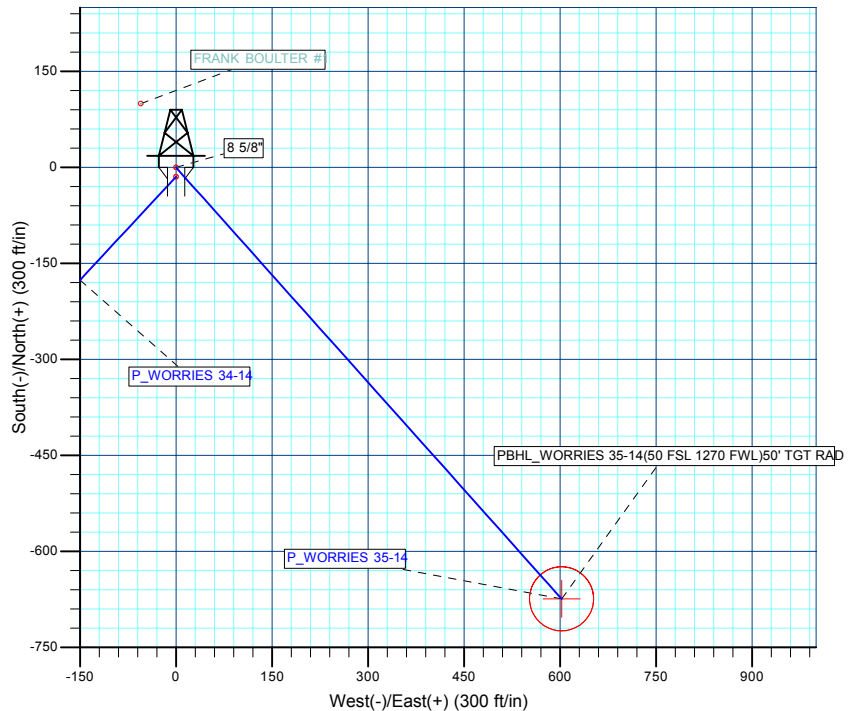
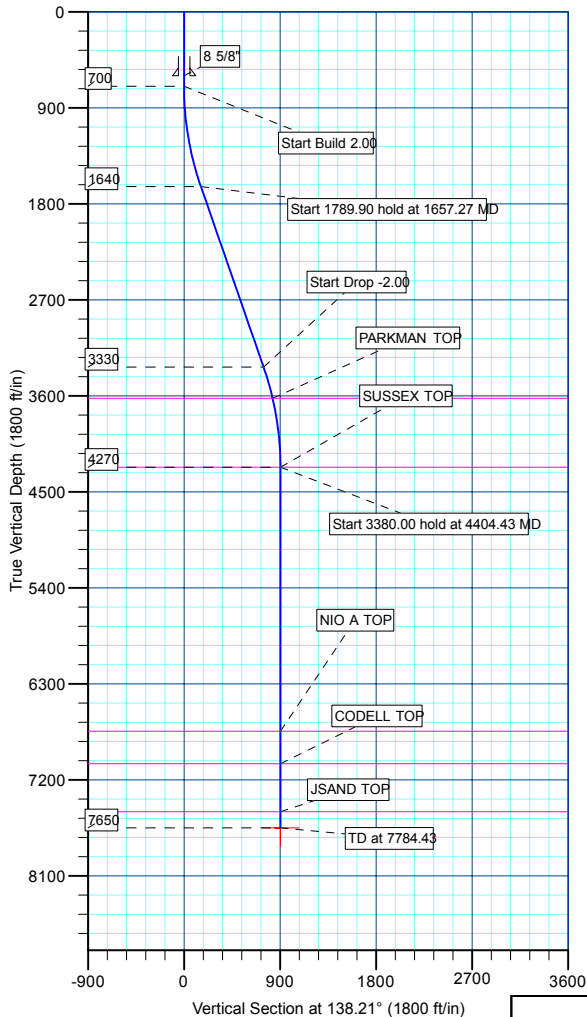
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	
1657.27	19.15	138.21	1639.55	-118.13	105.60	2.00	138.21	158.45	
3447.16	19.15	138.21	3330.45	-555.79	496.82	0.00	0.00	745.48	
4404.43	0.00	0.00	4270.00	-673.92	602.42	2.00	180.00	903.93	
7784.43	0.00	0.00	7650.00	-673.92	602.42	0.00	0.00	903.93	PBHL_WORRIES 35-14(50 FSL 1270 FWL)50' TGT RAD

CASING DETAILS

TVD	MD	Name	Size
600.00	600.00	8 5/8"	8.62



KB ELEV: WELL @ 4712.00ft (Original Well Elev)
GRD ELEV: 4697.00



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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7650.00	-673.92	602.42	1355245.21	3241188.31	40° 18' 19.152 N	104° 38' 6.720 W	Circle (Radius: 50.00)

Plan: PLAN #1 09-01-09 RHS (P_WORRIES 35-14/P_WORRIES 35-14)

Created By: Robert H. Scott



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site:	WELD_WORRIES 2 PAD	North Reference:	True
Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WORRIES 35-14		
Design:	PLAN #1 09-01-09 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_WORRIES 2 PAD, SECTION 14 T4N R65W			
Site Position:		Northing:	1,355,898.67 ft	Latitude:	40° 18' 25.668 N
From:	Lat/Long	Easting:	3,240,579.50 ft	Longitude:	104° 38' 14.496 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.56 °

Well		P_WORRIES 35-14				
Well Position	+N/-S	14.56 ft	Northing:	1,355,913.23 ft	Latitude:	40° 18' 25.812 N
	+E/-W	0.00 ft	Easting:	3,240,579.36 ft	Longitude:	104° 38' 14.496 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,697.00 ft

Wellbore	P_WORRIES 35-14				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/1/2009	8.99	67.07	53,304

Design	PLAN #1 09-01-09 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	138.21

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	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,657.27	19.15	138.21	1,639.55	-118.13	105.60	2.00	2.00	0.00	138.21	
3,447.16	19.15	138.21	3,330.45	-555.79	496.82	0.00	0.00	0.00	0.00	
4,404.43	0.00	0.00	4,270.00	-673.92	602.42	2.00	-2.00	0.00	180.00	
7,784.43	0.00	0.00	7,650.00	-673.92	602.42	0.00	0.00	0.00	0.00	PBHL_WORRIES 3



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site:	WELD_WORRIES 2 PAD	North Reference:	True
Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WORRIES 35-14		
Design:	PLAN #1 09-01-09 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									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	2.00	138.21	799.98	-1.30	1.16	1.75	2.00	2.00	0.00
900.00	4.00	138.21	899.84	-5.20	4.65	6.98	2.00	2.00	0.00
1,000.00	6.00	138.21	999.45	-11.70	10.46	15.69	2.00	2.00	0.00
1,100.00	8.00	138.21	1,098.70	-20.79	18.58	27.88	2.00	2.00	0.00
1,200.00	10.00	138.21	1,197.47	-32.45	29.01	43.52	2.00	2.00	0.00
1,300.00	12.00	138.21	1,295.62	-46.67	41.72	62.60	2.00	2.00	0.00
1,400.00	14.00	138.21	1,393.06	-63.44	56.71	85.10	2.00	2.00	0.00
1,500.00	16.00	138.21	1,489.64	-82.74	73.96	110.98	2.00	2.00	0.00
1,600.00	18.00	138.21	1,585.27	-104.54	93.44	140.21	2.00	2.00	0.00
Start 1789.90 hold at 1657.27 MD									
1,657.27	19.15	138.21	1,639.55	-118.13	105.60	158.45	2.00	2.00	0.00
1,700.00	19.15	138.21	1,679.92	-128.58	114.94	172.47	0.00	0.00	0.00
1,800.00	19.15	138.21	1,774.39	-153.03	136.80	205.26	0.00	0.00	0.00
1,900.00	19.15	138.21	1,868.86	-177.49	158.66	238.06	0.00	0.00	0.00
2,000.00	19.15	138.21	1,963.33	-201.94	180.51	270.86	0.00	0.00	0.00
2,100.00	19.15	138.21	2,057.80	-226.39	202.37	303.65	0.00	0.00	0.00
2,200.00	19.15	138.21	2,152.27	-250.84	224.23	336.45	0.00	0.00	0.00
2,300.00	19.15	138.21	2,246.74	-275.29	246.08	369.25	0.00	0.00	0.00
2,400.00	19.15	138.21	2,341.20	-299.74	267.94	402.04	0.00	0.00	0.00
2,500.00	19.15	138.21	2,435.67	-324.19	289.80	434.84	0.00	0.00	0.00
2,600.00	19.15	138.21	2,530.14	-348.65	311.66	467.64	0.00	0.00	0.00
2,700.00	19.15	138.21	2,624.61	-373.10	333.51	500.43	0.00	0.00	0.00
2,800.00	19.15	138.21	2,719.08	-397.55	355.37	533.23	0.00	0.00	0.00
2,900.00	19.15	138.21	2,813.55	-422.00	377.23	566.03	0.00	0.00	0.00
3,000.00	19.15	138.21	2,908.02	-446.45	399.09	598.82	0.00	0.00	0.00
3,100.00	19.15	138.21	3,002.49	-470.90	420.94	631.62	0.00	0.00	0.00
3,200.00	19.15	138.21	3,096.96	-495.35	442.80	664.41	0.00	0.00	0.00
3,300.00	19.15	138.21	3,191.43	-519.80	464.66	697.21	0.00	0.00	0.00
3,400.00	19.15	138.21	3,285.89	-544.26	486.51	730.01	0.00	0.00	0.00
Start Drop -2.00									
3,447.16	19.15	138.21	3,330.45	-555.79	496.82	745.48	0.00	0.00	0.00
3,500.00	18.09	138.21	3,380.52	-568.36	508.06	762.34	2.00	-2.00	0.00
3,600.00	16.09	138.21	3,476.10	-590.27	527.65	791.73	2.00	-2.00	0.00
3,700.00	14.09	138.21	3,572.65	-609.68	544.99	817.76	2.00	-2.00	0.00
PARKMAN TOP									
3,753.85	13.01	138.21	3,625.00	-619.08	553.40	830.37	2.00	-2.00	0.00
3,800.00	12.09	138.21	3,670.05	-626.56	560.09	840.40	2.00	-2.00	0.00
3,900.00	10.09	138.21	3,768.17	-640.90	572.90	859.63	2.00	-2.00	0.00
4,000.00	8.09	138.21	3,866.91	-652.67	583.43	875.43	2.00	-2.00	0.00
4,100.00	6.09	138.21	3,966.14	-661.87	591.65	887.77	2.00	-2.00	0.00
4,200.00	4.09	138.21	4,065.74	-668.49	597.56	896.64	2.00	-2.00	0.00
4,300.00	2.09	138.21	4,165.59	-672.50	601.16	902.02	2.00	-2.00	0.00
4,400.00	0.09	138.21	4,265.57	-673.92	602.42	903.92	2.00	-2.00	0.00
Start 3380.00 hold at 4404.43 MD - SUSSEX TOP									
4,404.43	0.00	0.00	4,270.00	-673.92	602.42	903.93	2.00	-2.00	0.00
4,500.00	0.00	0.00	4,365.57	-673.92	602.42	903.93	0.00	0.00	0.00
4,600.00	0.00	0.00	4,465.57	-673.92	602.42	903.93	0.00	0.00	0.00
4,700.00	0.00	0.00	4,565.57	-673.92	602.42	903.93	0.00	0.00	0.00
4,800.00	0.00	0.00	4,665.57	-673.92	602.42	903.93	0.00	0.00	0.00
4,900.00	0.00	0.00	4,765.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,000.00	0.00	0.00	4,865.57	-673.92	602.42	903.93	0.00	0.00	0.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site:	WELD_WORRIES 2 PAD	North Reference:	True
Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WORRIES 35-14		
Design:	PLAN #1 09-01-09 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)
5,100.00	0.00	0.00	4,965.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,200.00	0.00	0.00	5,065.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,300.00	0.00	0.00	5,165.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,400.00	0.00	0.00	5,265.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,500.00	0.00	0.00	5,365.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,600.00	0.00	0.00	5,465.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,700.00	0.00	0.00	5,565.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,800.00	0.00	0.00	5,665.57	-673.92	602.42	903.93	0.00	0.00	0.00
5,900.00	0.00	0.00	5,765.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,000.00	0.00	0.00	5,865.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,100.00	0.00	0.00	5,965.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,200.00	0.00	0.00	6,065.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,300.00	0.00	0.00	6,165.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,400.00	0.00	0.00	6,265.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,500.00	0.00	0.00	6,365.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,600.00	0.00	0.00	6,465.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,700.00	0.00	0.00	6,565.57	-673.92	602.42	903.93	0.00	0.00	0.00
6,800.00	0.00	0.00	6,665.57	-673.92	602.42	903.93	0.00	0.00	0.00
NIO A TOP									
6,880.43	0.00	0.00	6,746.00	-673.92	602.42	903.93	0.00	0.00	0.00
6,900.00	0.00	0.00	6,765.57	-673.92	602.42	903.93	0.00	0.00	0.00
7,000.00	0.00	0.00	6,865.57	-673.92	602.42	903.93	0.00	0.00	0.00
7,100.00	0.00	0.00	6,965.57	-673.92	602.42	903.93	0.00	0.00	0.00
CODELL TOP									
7,184.43	0.00	0.00	7,050.00	-673.92	602.42	903.93	0.00	0.00	0.00
7,200.00	0.00	0.00	7,065.57	-673.92	602.42	903.93	0.00	0.00	0.00
7,300.00	0.00	0.00	7,165.57	-673.92	602.42	903.93	0.00	0.00	0.00
7,400.00	0.00	0.00	7,265.57	-673.92	602.42	903.93	0.00	0.00	0.00
7,500.00	0.00	0.00	7,365.57	-673.92	602.42	903.93	0.00	0.00	0.00
7,600.00	0.00	0.00	7,465.57	-673.92	602.42	903.93	0.00	0.00	0.00
JSAND TOP									
7,633.43	0.00	0.00	7,499.00	-673.92	602.42	903.93	0.00	0.00	0.00
7,700.00	0.00	0.00	7,565.57	-673.92	602.42	903.93	0.00	0.00	0.00
PBHL_WORRIES 35-14(50 FSL 1270 FWL)50' TGT RAD									
7,784.43	0.00	0.00	7,650.00	-673.92	602.42	903.93	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_WORRIES 35- - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,650.00	-673.92	602.42	1,355,245.21	3,241,188.31	40° 18' 19.152 N	104° 38' 6.720 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
600.00	600.00	8 5/8"	8.62	11.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Project:	KERR MCGEE OIL & GAS ONSHORE LP	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site:	WELD_WORRIES 2 PAD	North Reference:	True
Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WORRIES 35-14		
Design:	PLAN #1 09-01-09 RHS		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,753.85	3,625.00	PARKMAN TOP			
4,404.43	4,270.00	SUSSEX TOP			
6,880.43	6,746.00	NIO A TOP			
7,184.43	7,050.00	CODELL TOP			
7,633.43	7,499.00	JSAND TOP			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
700.00	700.00	0.00	0.00	Start Build 2.00
1,657.27	1,639.55	-118.13	105.60	Start 1789.90 hold at 1657.27 MD
3,447.16	3,330.45	-555.79	496.82	Start Drop -2.00
4,404.43	4,270.00	-673.92	602.42	Start 3380.00 hold at 4404.43 MD
7,784.43	7,650.00	-673.92	602.42	TD at 7784.43



US ROCKIES REGION PLANNING

**KERR MCGEE OIL & GAS ONSHORE LP
WELD_WORRIES 2 PAD
P_WORRIES 35-14**

**P_WORRIES 35-14
PLAN #1 09-01-09 RHS**

Anticollision Report

01 September, 2009





Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Reference Site:	WELD_WORRIES 2 PAD	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_WORRIES 35-14	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-01-09 RHS	Offset TVD Reference:	Offset Datum

Reference	PLAN #1 09-01-09 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 9/1/2009			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	7,784.43	PLAN #1 09-01-09 RHS (P_WORRIES 35	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_WORRIES 2 PAD						
FRANK BOULTER #1 - FRANK BOULTER #1 - FRANK	700.00	700.00	113.98	86.84	4.199	CC
FRANK BOULTER #1 - FRANK BOULTER #1 - FRANK	800.00	799.98	115.68	84.35	3.693	ES
FRANK BOULTER #1 - FRANK BOULTER #1 - FRANK	7,784.43	7,650.00	1,015.36	694.57	3.165	SF
P_WORRIES 34-14 - P_WORRIES 34-14 - PLAN #1 09-	732.37	732.25	14.56	11.54	4.823	CC
P_WORRIES 34-14 - P_WORRIES 34-14 - PLAN #1 09-	800.00	799.57	14.72	11.43	4.475	ES, SF

Offset Design WELD_WORRIES 2 PAD - FRANK BOULTER #1 - FRANK BOULTER #1 - FRANK BOULTER #1												
Survey Program: 0-UNKNOWN												
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
0.00	0.00	0.00	0.00	0.00	0.00	-28.91	99.78	-55.10	113.98			
100.00	100.00	100.00	100.00	0.10	1.70	-28.91	99.78	-55.10	113.98	112.18	1.80	63.480
200.00	200.00	200.00	200.00	0.32	5.70	-28.91	99.78	-55.10	113.98	107.96	6.02	18.933
300.00	300.00	300.00	300.00	0.55	9.70	-28.91	99.78	-55.10	113.98	103.74	10.25	11.125
400.00	400.00	400.00	400.00	0.77	13.70	-28.91	99.78	-55.10	113.98	99.51	14.47	7.877
500.00	500.00	500.00	500.00	0.99	17.70	-28.91	99.78	-55.10	113.98	95.29	18.69	6.097
600.00	600.00	600.00	600.00	1.22	21.70	-28.91	99.78	-55.10	113.98	91.06	22.92	4.973
700.00	700.00	700.00	700.00	1.44	25.70	-28.91	99.78	-55.10	113.98	86.84	27.14	4.199 CC
800.00	799.98	799.98	799.98	1.65	29.70	-167.30	99.78	-55.10	115.68	84.35	31.33	3.693 ES
900.00	899.84	899.84	899.84	1.83	33.69	-167.82	99.78	-55.10	120.79	85.35	35.45	3.408
1,000.00	999.45	999.45	999.45	2.04	37.68	-168.60	99.78	-55.10	129.33	89.82	39.51	3.274
1,100.00	1,098.70	1,098.70	1,098.70	2.29	41.65	-169.54	99.78	-55.10	141.29	97.81	43.48	3.249
1,200.00	1,197.47	1,197.47	1,197.47	2.57	45.60	-170.52	99.78	-55.10	156.71	109.35	47.36	3.309
1,300.00	1,295.62	1,295.62	1,295.62	2.90	49.52	-171.49	99.78	-55.10	175.56	124.44	51.12	3.434
1,400.00	1,393.06	1,393.06	1,393.06	3.28	53.42	-172.39	99.78	-55.10	197.85	143.10	54.74	3.614
1,500.00	1,489.64	1,489.64	1,489.64	3.74	57.29	-173.21	99.78	-55.10	223.54	165.32	58.21	3.840
1,600.00	1,585.27	1,585.27	1,585.27	4.25	61.11	-173.93	99.78	-55.10	252.60	191.09	61.52	4.106
1,657.27	1,639.55	1,639.55	1,639.55	4.58	63.28	-174.30	99.78	-55.10	270.76	207.43	63.33	4.276
1,700.00	1,679.92	1,679.92	1,679.92	4.84	64.90	-174.58	99.78	-55.10	284.71	219.75	64.97	4.383
1,800.00	1,774.39	1,774.39	1,774.39	5.45	68.68	-175.14	99.78	-55.10	317.39	248.58	68.81	4.613
1,900.00	1,868.86	1,868.86	1,868.86	6.08	72.45	-175.59	99.78	-55.10	350.09	277.43	72.66	4.818
2,000.00	1,963.33	1,963.33	1,963.33	6.73	76.23	-175.97	99.78	-55.10	382.81	306.29	76.52	5.003

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



Weatherford International Ltd.

Anticollision Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Reference Site:	WELD_WORRIES 2 PAD	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_WORRIES 35-14	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-01-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-UNKNOWN												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						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	
2,100.00	2,057.80	2,057.80	2,057.80	7.38	80.01	-176.29	99.78	-55.10	415.54	335.16	80.38	5.170	
2,200.00	2,152.27	2,152.27	2,152.27	8.03	83.79	-176.56	99.78	-55.10	448.28	364.04	84.24	5.321	
2,300.00	2,246.74	2,246.74	2,246.74	8.70	87.57	-176.79	99.78	-55.10	481.03	392.91	88.11	5.459	
2,400.00	2,341.20	2,341.20	2,341.20	9.36	91.35	-177.00	99.78	-55.10	513.78	421.80	91.99	5.585	
2,500.00	2,435.67	2,435.67	2,435.67	10.03	95.13	-177.18	99.78	-55.10	546.54	450.68	95.86	5.701	
2,600.00	2,530.14	2,530.14	2,530.14	10.70	98.91	-177.34	99.78	-55.10	579.30	479.57	99.74	5.808	
2,700.00	2,624.61	2,624.61	2,624.61	11.38	102.68	-177.48	99.78	-55.10	612.07	508.46	103.61	5.907	
2,800.00	2,719.08	2,719.08	2,719.08	12.05	106.46	-177.61	99.78	-55.10	644.84	537.35	107.49	5.999	
2,900.00	2,813.55	2,813.55	2,813.55	12.73	110.24	-177.72	99.78	-55.10	677.61	566.24	111.37	6.084	
3,000.00	2,908.02	2,908.02	2,908.02	13.41	114.02	-177.83	99.78	-55.10	710.39	595.13	115.26	6.164	
3,100.00	3,002.49	3,002.49	3,002.49	14.09	117.80	-177.93	99.78	-55.10	743.16	624.02	119.14	6.238	
3,200.00	3,096.96	3,096.96	3,096.96	14.77	121.58	-178.01	99.78	-55.10	775.94	652.92	123.02	6.307	
3,300.00	3,191.43	3,191.43	3,191.43	15.45	125.36	-178.09	99.78	-55.10	808.72	681.81	126.91	6.373	
3,400.00	3,285.89	3,285.89	3,285.89	16.13	129.14	-178.17	99.78	-55.10	841.50	710.71	130.79	6.434	
3,447.16	3,330.45	3,330.45	3,330.45	16.45	130.92	-178.20	99.78	-55.10	856.96	724.34	132.62	6.462	
3,500.00	3,380.52	3,380.52	3,380.52	16.76	132.92	-178.25	99.78	-55.10	873.82	738.39	135.44	6.452	
3,600.00	3,476.10	3,476.10	3,476.10	17.23	136.74	-178.32	99.78	-55.10	903.19	762.44	140.75	6.417	
3,700.00	3,572.65	3,572.65	3,572.65	17.66	140.61	-178.38	99.78	-55.10	929.21	783.21	146.00	6.364	
3,800.00	3,670.05	3,670.05	3,670.05	18.05	144.50	-178.44	99.78	-55.10	951.85	800.69	151.16	6.297	
3,900.00	3,768.17	3,768.17	3,768.17	18.39	148.43	-178.48	99.78	-55.10	971.08	814.87	156.21	6.217	
4,000.00	3,866.91	3,866.91	3,866.91	18.68	152.38	-178.51	99.78	-55.10	986.87	825.74	161.12	6.125	
4,100.00	3,966.14	3,966.14	3,966.14	18.93	156.35	-178.53	99.78	-55.10	999.20	833.31	165.89	6.023	
4,200.00	4,065.74	4,065.74	4,065.74	19.14	160.33	-178.55	99.78	-55.10	1,008.07	837.58	170.48	5.913	
4,300.00	4,165.59	4,165.59	4,165.59	19.29	164.32	-178.56	99.78	-55.10	1,013.45	838.57	174.89	5.795	
4,404.43	4,270.00	4,270.00	4,270.00	19.41	168.50	-40.36	99.78	-55.10	1,015.36	836.09	179.26	5.664	
4,500.00	4,365.57	4,365.57	4,365.57	19.51	172.32	-40.36	99.78	-55.10	1,015.36	832.11	183.25	5.541	
4,600.00	4,465.57	4,465.57	4,465.57	19.60	176.32	-40.36	99.78	-55.10	1,015.36	827.94	187.41	5.418	
4,700.00	4,565.57	4,565.57	4,565.57	19.70	180.32	-40.36	99.78	-55.10	1,015.36	823.78	191.58	5.300	
4,800.00	4,665.57	4,665.57	4,665.57	19.80	184.32	-40.36	99.78	-55.10	1,015.36	819.61	195.75	5.187	
4,900.00	4,765.57	4,765.57	4,765.57	19.90	188.32	-40.36	99.78	-55.10	1,015.36	815.44	199.92	5.079	
5,000.00	4,865.57	4,865.57	4,865.57	20.00	192.32	-40.36	99.78	-55.10	1,015.36	811.26	204.09	4.975	
5,100.00	4,965.57	4,965.57	4,965.57	20.11	196.32	-40.36	99.78	-55.10	1,015.36	807.09	208.27	4.875	
5,200.00	5,065.57	5,065.57	5,065.57	20.22	200.32	-40.36	99.78	-55.10	1,015.36	802.91	212.45	4.779	
5,300.00	5,165.57	5,165.57	5,165.57	20.33	204.32	-40.36	99.78	-55.10	1,015.36	798.73	216.62	4.687	
5,400.00	5,265.57	5,265.57	5,265.57	20.44	208.32	-40.36	99.78	-55.10	1,015.36	794.55	220.80	4.598	
5,500.00	5,365.57	5,365.57	5,365.57	20.55	212.32	-40.36	99.78	-55.10	1,015.36	790.37	224.98	4.513	
5,600.00	5,465.57	5,465.57	5,465.57	20.67	216.32	-40.36	99.78	-55.10	1,015.36	786.19	229.17	4.431	
5,700.00	5,565.57	5,565.57	5,565.57	20.79	220.32	-40.36	99.78	-55.10	1,015.36	782.01	233.35	4.351	
5,800.00	5,665.57	5,665.57	5,665.57	20.90	224.32	-40.36	99.78	-55.10	1,015.36	777.82	237.54	4.275	
5,900.00	5,765.57	5,765.57	5,765.57	21.03	228.32	-40.36	99.78	-55.10	1,015.36	773.63	241.72	4.201	
6,000.00	5,865.57	5,865.57	5,865.57	21.15	232.32	-40.36	99.78	-55.10	1,015.36	769.45	245.91	4.129	
6,100.00	5,965.57	5,965.57	5,965.57	21.27	236.32	-40.36	99.78	-55.10	1,015.36	765.26	250.10	4.060	
6,200.00	6,065.57	6,065.57	6,065.57	21.40	240.32	-40.36	99.78	-55.10	1,015.36	761.07	254.29	3.993	
6,300.00	6,165.57	6,165.57	6,165.57	21.52	244.32	-40.36	99.78	-55.10	1,015.36	756.88	258.48	3.928	
6,400.00	6,265.57	6,265.57	6,265.57	21.65	248.32	-40.36	99.78	-55.10	1,015.36	752.69	262.67	3.866	
6,500.00	6,365.57	6,365.57	6,365.57	21.78	252.32	-40.36	99.78	-55.10	1,015.36	748.49	266.86	3.805	
6,600.00	6,465.57	6,465.57	6,465.57	21.92	256.32	-40.36	99.78	-55.10	1,015.36	744.30	271.06	3.746	
6,700.00	6,565.57	6,565.57	6,565.57	22.05	260.32	-40.36	99.78	-55.10	1,015.36	740.11	275.25	3.689	
6,800.00	6,665.57	6,665.57	6,665.57	22.18	264.32	-40.36	99.78	-55.10	1,015.36	735.91	279.45	3.633	
6,900.00	6,765.57	6,765.57	6,765.57	22.32	268.32	-40.36	99.78	-55.10	1,015.36	731.71	283.64	3.580	
7,000.00	6,865.57	6,865.57	6,865.57	22.46	272.32	-40.36	99.78	-55.10	1,015.36	727.52	287.84	3.528	
7,100.00	6,965.57	6,965.57	6,965.57	22.60	276.32	-40.36	99.78	-55.10	1,015.36	723.32	292.04	3.477	

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



Weatherford International Ltd.
Anticollision Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Reference Site:	WELD_WORRIES 2 PAD	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_WORRIES 35-14	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-01-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design										WELD_WORRIES 2 PAD - FRANK BOULTER #1 - FRANK BOULTER #1 - FRANK BOULTER #1				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					
7,200.00	7,065.57	7,065.57	7,065.57	22.74	280.32	-40.36	99.78	-55.10	1,015.36	719.12	296.23	3.428					
7,300.00	7,165.57	7,165.57	7,165.57	22.88	284.32	-40.36	99.78	-55.10	1,015.36	714.92	300.43	3.380					
7,400.00	7,265.57	7,265.57	7,265.57	23.02	288.32	-40.36	99.78	-55.10	1,015.36	710.72	304.63	3.333					
7,500.00	7,365.57	7,365.57	7,365.57	23.17	292.32	-40.36	99.78	-55.10	1,015.36	706.52	308.83	3.288					
7,600.00	7,465.57	7,465.57	7,465.57	23.31	296.32	-40.36	99.78	-55.10	1,015.36	702.32	313.03	3.244					
7,700.00	7,565.57	7,565.57	7,565.57	23.46	300.32	-40.36	99.78	-55.10	1,015.36	698.12	317.24	3.201					
7,784.43	7,650.00	7,650.00	7,650.00	23.59	303.70	-40.36	99.78	-55.10	1,015.36	694.57	320.78	3.165 SF					



Weatherford International Ltd.

Anticollision Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Reference Site:	WELD_WORRIES 2 PAD	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_WORRIES 35-14	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-01-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_WORRIES 2 PAD - P_WORRIES 34-14 - P_WORRIES 34-14 - PLAN #1 09-01-09 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	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	76.206	
200.00	200.00	200.00	200.00	0.32	0.32	180.00	-14.56	0.00	14.56	13.92	0.64	22.728	
300.00	300.00	300.00	300.00	0.55	0.55	180.00	-14.56	0.00	14.56	13.47	1.09	13.356	
400.00	400.00	400.00	400.00	0.77	0.77	180.00	-14.56	0.00	14.56	13.02	1.54	9.456	
500.00	500.00	500.00	500.00	0.99	0.99	180.00	-14.56	0.00	14.56	12.57	1.99	7.319	
600.00	600.00	600.00	600.00	1.22	1.22	180.00	-14.56	0.00	14.56	12.12	2.44	5.970	
700.00	700.00	700.00	700.00	1.44	1.44	180.00	-14.56	0.00	14.56	11.67	2.89	5.041	
732.37	732.37	732.25	732.25	1.51	1.51	42.76	-14.69	-0.12	14.56	11.54	3.02	4.823 CC	
800.00	799.98	799.57	799.55	1.65	1.64	50.92	-15.83	-1.18	14.72	11.43	3.29	4.475 ES, SF	
900.00	899.84	898.82	898.66	1.83	1.83	74.54	-19.61	-4.70	17.21	13.55	3.66	4.700	
1,000.00	999.45	997.42	996.88	2.04	2.04	97.12	-25.86	-10.50	25.42	21.36	4.06	6.258	
1,100.00	1,098.70	1,095.06	1,093.80	2.29	2.27	110.42	-34.48	-18.52	39.85	35.35	4.50	8.860	
1,200.00	1,197.47	1,191.44	1,189.03	2.57	2.54	117.53	-45.36	-28.63	59.66	54.68	4.98	11.981	
1,300.00	1,295.62	1,286.28	1,282.20	2.90	2.85	121.50	-58.34	-40.71	84.32	78.80	5.52	15.277	
1,400.00	1,393.06	1,379.35	1,373.00	3.28	3.20	123.83	-73.28	-54.59	113.52	107.39	6.13	18.532	
1,500.00	1,489.64	1,470.40	1,461.15	3.74	3.59	125.23	-89.97	-70.11	147.04	140.23	6.80	21.615	
1,600.00	1,585.27	1,559.24	1,546.42	4.25	4.03	126.06	-108.23	-87.08	184.70	177.14	7.55	24.452	
1,657.27	1,639.55	1,609.06	1,593.88	4.58	4.29	126.36	-119.31	-97.38	208.06	200.05	8.01	25.967	
1,700.00	1,679.92	1,645.79	1,628.70	4.84	4.50	126.77	-127.87	-105.34	226.16	217.77	8.38	26.976	
1,800.00	1,774.39	1,735.26	1,713.22	5.45	5.03	127.40	-149.38	-125.34	269.21	259.91	9.30	28.955	
1,900.00	1,868.86	1,825.48	1,798.42	6.08	5.58	127.85	-171.09	-145.53	312.30	302.05	10.24	30.495	
2,000.00	1,963.33	1,915.70	1,883.63	6.73	6.14	128.19	-192.81	-165.71	355.40	344.19	11.20	31.719	
2,100.00	2,057.80	2,005.91	1,968.84	7.38	6.72	128.46	-214.52	-185.90	398.51	386.32	12.18	32.708	
2,200.00	2,152.27	2,096.13	2,054.04	8.03	7.30	128.67	-236.24	-206.08	441.62	428.45	13.18	33.519	
2,300.00	2,246.74	2,186.35	2,139.25	8.70	7.88	128.85	-257.95	-226.27	484.74	470.57	14.18	34.194	
2,400.00	2,341.20	2,276.56	2,224.45	9.36	8.47	129.00	-279.66	-246.46	527.86	512.68	15.18	34.764	
2,500.00	2,435.67	2,366.78	2,309.66	10.03	9.06	129.12	-301.38	-266.64	570.99	554.79	16.20	35.250	
2,600.00	2,530.14	2,457.00	2,394.87	10.70	9.66	129.23	-323.09	-286.83	614.12	596.90	17.22	35.671	
2,700.00	2,624.61	2,547.21	2,480.07	11.38	10.25	129.33	-344.80	-307.02	657.25	639.01	18.24	36.037	
2,800.00	2,719.08	2,637.43	2,565.28	12.05	10.85	129.41	-366.52	-327.20	700.38	681.11	19.26	36.359	
2,900.00	2,813.55	2,727.65	2,650.48	12.73	11.45	129.48	-388.23	-347.39	743.51	723.22	20.29	36.644	
3,000.00	2,908.02	2,817.86	2,735.69	13.41	12.05	129.55	-409.94	-367.58	786.64	765.32	21.32	36.899	
3,100.00	3,002.49	2,908.08	2,820.90	14.09	12.66	129.61	-431.66	-387.76	829.77	807.42	22.35	37.127	
3,200.00	3,096.96	2,998.30	2,906.10	14.77	13.26	129.66	-453.37	-407.95	872.90	849.52	23.38	37.334	
3,300.00	3,191.43	3,088.51	2,991.31	15.45	13.87	129.70	-475.09	-428.14	916.04	891.62	24.41	37.521	
3,400.00	3,285.89	3,178.73	3,076.51	16.13	14.47	129.75	-496.80	-448.32	959.17	933.73	25.45	37.693	
3,447.16	3,330.45	3,221.28	3,116.70	16.45	14.76	129.77	-507.04	-457.84	979.52	953.58	25.93	37.769	
3,500.00	3,380.52	3,269.08	3,161.85	16.76	15.08	130.15	-518.55	-468.54	1,002.02	975.53	26.49	37.822	
3,600.00	3,476.10	3,360.24	3,247.95	17.23	15.69	130.70	-540.49	-488.94	1,043.06	1,015.60	27.46	37.982	
3,700.00	3,572.65	3,454.46	3,336.93	17.66	16.32	131.06	-563.15	-510.01	1,082.02	1,053.61	28.41	38.091	
3,800.00	3,670.05	3,580.25	3,456.72	18.05	16.94	131.22	-591.24	-536.12	1,117.33	1,088.01	29.32	38.109	
3,900.00	3,768.17	3,709.99	3,581.92	18.39	17.48	131.35	-616.14	-559.27	1,147.66	1,117.53	30.13	38.090	
4,000.00	3,866.91	3,843.22	3,711.95	18.68	17.97	131.45	-637.37	-579.00	1,172.82	1,141.97	30.85	38.015	
4,100.00	3,966.14	3,979.38	3,846.07	18.93	18.39	131.53	-654.46	-594.89	1,192.63	1,161.15	31.48	37.885	
4,200.00	4,065.74	4,117.80	3,983.42	19.14	18.73	131.58	-667.04	-606.58	1,206.96	1,174.96	32.01	37.711	
4,300.00	4,165.59	4,257.80	4,123.01	19.29	18.99	131.61	-674.80	-613.80	1,215.70	1,183.28	32.42	37.496	
4,404.43	4,270.00	4,404.86	4,270.00	19.41	19.18	-90.17	-677.56	-616.37	1,218.80	1,186.03	32.76	37.199	
4,500.00	4,365.57	4,500.43	4,365.57	19.51	19.27	-90.17	-677.56	-616.37	1,218.80	1,185.81	32.98	36.952	
4,600.00	4,465.57	4,600.43	4,465.57	19.60	19.37	-90.17	-677.56	-616.37	1,218.80	1,185.59	33.21	36.705	
4,700.00	4,565.57	4,700.43	4,565.57	19.70	19.47	-90.17	-677.56	-616.37	1,218.80	1,185.37	33.43	36.457	
4,800.00	4,665.57	4,800.43	4,665.57	19.80	19.57	-90.17	-677.56	-616.37	1,218.80	1,185.14	33.66	36.207	

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



Weatherford International Ltd.

Anticollision Report



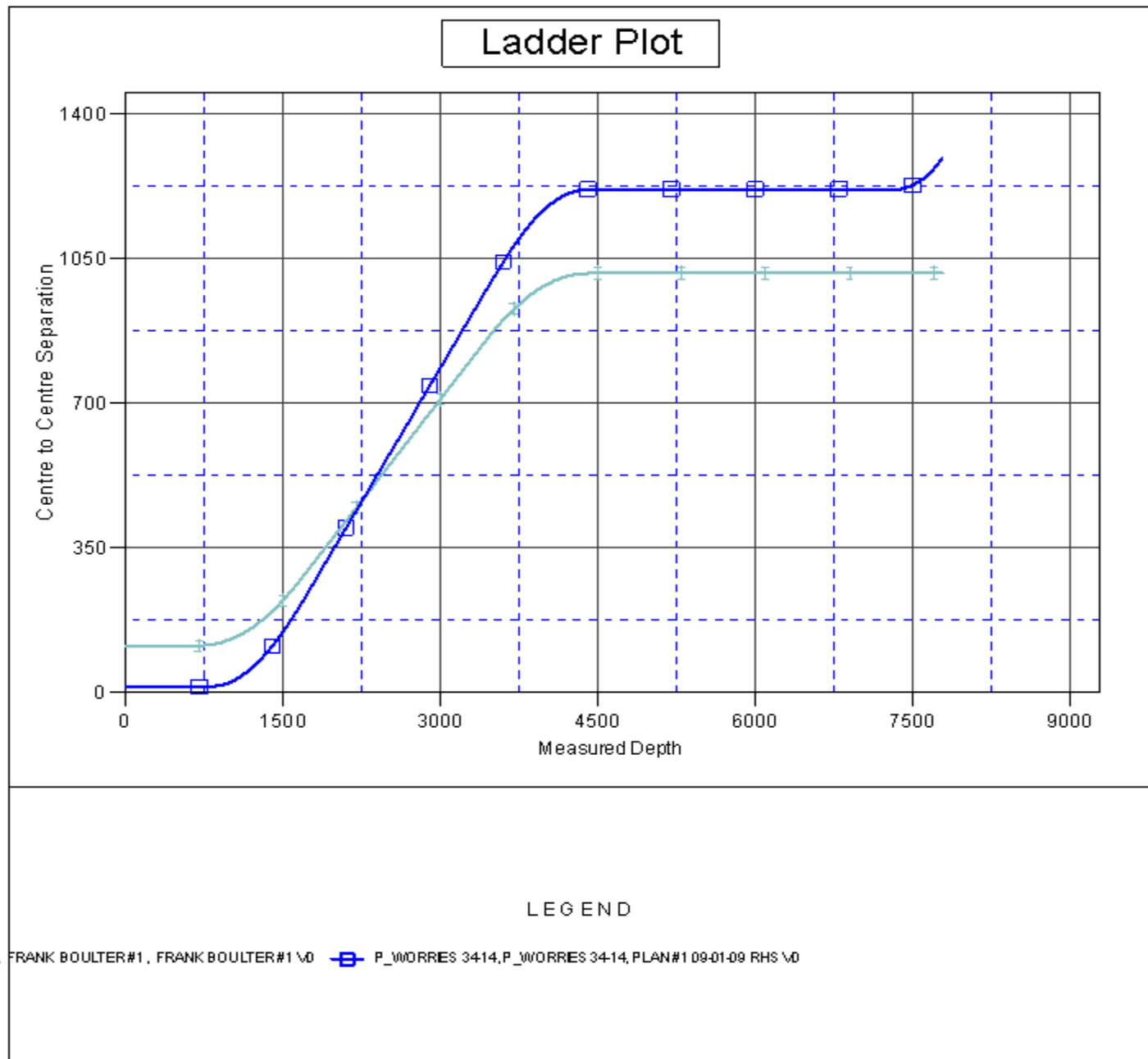
Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Reference Site:	WELD_WORRIES 2 PAD	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_WORRIES 35-14	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-01-09 RHS	Offset TVD Reference:	Offset Datum

Offset Design WELD_WORRIES 2 PAD - P_WORRIES 34-14 - P_WORRIES 34-14 - PLAN #1 09-01-09 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
4,900.00	4,765.57	4,900.43	4,765.57	19.90	19.67	-90.17	-677.56	-616.37	1,218.80	1,184.90	33.90	35.955	
5,000.00	4,865.57	5,000.43	4,865.57	20.00	19.77	-90.17	-677.56	-616.37	1,218.80	1,184.66	34.14	35.703	
5,100.00	4,965.57	5,100.43	4,965.57	20.11	19.88	-90.17	-677.56	-616.37	1,218.80	1,184.42	34.38	35.450	
5,200.00	5,065.57	5,200.43	5,065.57	20.22	19.99	-90.17	-677.56	-616.37	1,218.80	1,184.17	34.63	35.195	
5,300.00	5,165.57	5,300.43	5,165.57	20.33	20.10	-90.17	-677.56	-616.37	1,218.80	1,183.92	34.88	34.941	
5,400.00	5,265.57	5,400.43	5,265.57	20.44	20.21	-90.17	-677.56	-616.37	1,218.80	1,183.66	35.14	34.686	
5,500.00	5,365.57	5,500.43	5,365.57	20.55	20.32	-90.17	-677.56	-616.37	1,218.80	1,183.40	35.40	34.431	
5,600.00	5,465.57	5,600.43	5,465.57	20.67	20.44	-90.17	-677.56	-616.37	1,218.80	1,183.14	35.66	34.176	
5,700.00	5,565.57	5,700.43	5,565.57	20.79	20.55	-90.17	-677.56	-616.37	1,218.80	1,182.87	35.93	33.921	
5,800.00	5,665.57	5,800.43	5,665.57	20.90	20.67	-90.17	-677.56	-616.37	1,218.80	1,182.60	36.20	33.667	
5,900.00	5,765.57	5,900.43	5,765.57	21.03	20.79	-90.17	-677.56	-616.37	1,218.80	1,182.32	36.48	33.413	
6,000.00	5,865.57	6,000.43	5,865.57	21.15	20.92	-90.17	-677.56	-616.37	1,218.80	1,182.04	36.76	33.160	
6,100.00	5,965.57	6,100.43	5,965.57	21.27	21.04	-90.17	-677.56	-616.37	1,218.80	1,181.76	37.04	32.907	
6,200.00	6,065.57	6,200.43	6,065.57	21.40	21.17	-90.17	-677.56	-616.37	1,218.80	1,181.47	37.32	32.655	
6,300.00	6,165.57	6,300.43	6,165.57	21.52	21.29	-90.17	-677.56	-616.37	1,218.80	1,181.19	37.61	32.405	
6,400.00	6,265.57	6,400.43	6,265.57	21.65	21.42	-90.17	-677.56	-616.37	1,218.80	1,180.89	37.90	32.155	
6,500.00	6,365.57	6,500.43	6,365.57	21.78	21.55	-90.17	-677.56	-616.37	1,218.80	1,180.60	38.20	31.907	
6,600.00	6,465.57	6,600.43	6,465.57	21.92	21.69	-90.17	-677.56	-616.37	1,218.80	1,180.30	38.50	31.660	
6,700.00	6,565.57	6,700.43	6,565.57	22.05	21.82	-90.17	-677.56	-616.37	1,218.80	1,180.00	38.80	31.414	
6,800.00	6,665.57	6,800.43	6,665.57	22.18	21.96	-90.17	-677.56	-616.37	1,218.80	1,179.70	39.10	31.170	
6,900.00	6,765.57	6,900.43	6,765.57	22.32	22.09	-90.17	-677.56	-616.37	1,218.80	1,179.39	39.41	30.928	
7,000.00	6,865.57	7,000.43	6,865.57	22.46	22.23	-90.17	-677.56	-616.37	1,218.80	1,179.08	39.72	30.687	
7,100.00	6,965.57	7,100.43	6,965.57	22.60	22.37	-90.17	-677.56	-616.37	1,218.80	1,178.77	40.03	30.447	
7,200.00	7,065.57	7,200.43	7,065.57	22.74	22.51	-90.17	-677.56	-616.37	1,218.80	1,178.45	40.34	30.210	
7,300.00	7,165.57	7,300.43	7,165.57	22.88	22.65	-90.17	-677.56	-616.37	1,218.80	1,178.14	40.66	29.974	
7,332.55	7,198.12	7,332.99	7,198.12	22.93	22.70	-90.17	-677.56	-616.37	1,218.80	1,178.03	40.77	29.897	
7,400.00	7,265.57	7,349.86	7,215.00	23.02	22.72	-90.17	-677.56	-616.37	1,219.85	1,178.95	40.90	29.825	
7,500.00	7,365.57	7,349.86	7,215.00	23.17	22.72	-90.17	-677.56	-616.37	1,228.06	1,187.00	41.06	29.908	
7,600.00	7,465.57	7,349.86	7,215.00	23.31	22.72	-90.17	-677.56	-616.37	1,244.29	1,203.07	41.22	30.185	
7,700.00	7,565.57	7,349.86	7,215.00	23.46	22.72	-90.17	-677.56	-616.37	1,268.21	1,226.83	41.38	30.644	
7,784.43	7,650.00	7,349.86	7,215.00	23.59	22.72	-90.17	-677.56	-616.37	1,294.10	1,252.58	41.52	31.166	



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Reference Site:	WELD_WORRIES 2 PAD	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_WORRIES 35-14	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-01-09 RHS	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4712.00ft (Original Well Elev)Coordinates are relative to: P_WORRIES 35-14
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: 0.56°

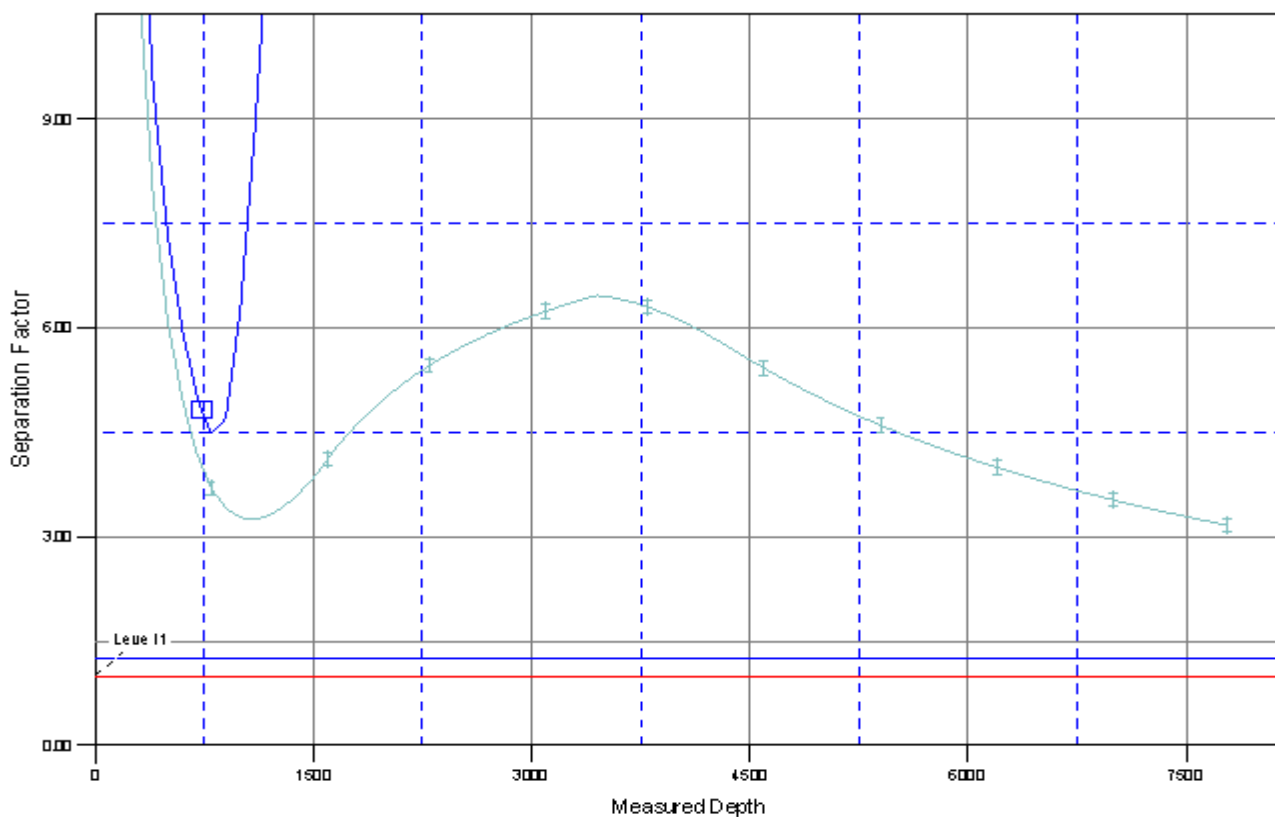




Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_WORRIES 35-14
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 4712.00ft (Original Well Elev)
Reference Site:	WELD_WORRIES 2 PAD	MD Reference:	WELL @ 4712.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_WORRIES 35-14	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_WORRIES 35-14	Database:	EDM 2003.21 Single User Db
Reference Design:	PLAN #1 09-01-09 RHS	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4712.00ft (Original Well Elev)Coordinates are relative to: P_WORRIES 35-14
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: 0.56°

Separation Factor Plot



LEGEND

1, FRANK BOULTER#1, FRANK BOULTER#1 \0 - P_WORRIES 34-14, P_WORRIES 34-14, PLAN#1 09-01-09 RHS \0