



# **US ROCKIES REGION PLANNING**

**KERR MCGEE OIL & GAS ONSHORE LP**

**ADAMS\_TALON VIEW 7 PAD**

**P\_TALON VIEW 21-9**

**P\_TALON VIEW 21-9**

**Plan: PLAN #1 09-01-09 RHS**

## **Standard Planning Report**

**01 September, 2009**





P. TALON VIEW 21-9  
KERR MCGEE OIL & GAS ONSHORE LP  
SECTION 9 T1S R67W  
1499 FNL 1321 FWL  
LAT: 39° 58' 56.244 N  
LONG: 104° 53' 54.924 W



Azimuths to True North  
Magnetic North: 9.10°  
Magnetic Field  
Strength: 53100.8nT  
Dip Angle: 66.76°  
Date: 9/1/2009  
Model: IGRF200510

WELL DETAILS: P\_TALON VIEW 21-9

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	1236967.03	3168529.63	5156.00	39° 58' 56.244 N	104° 53' 54.924 W	

SECTION DETAILS

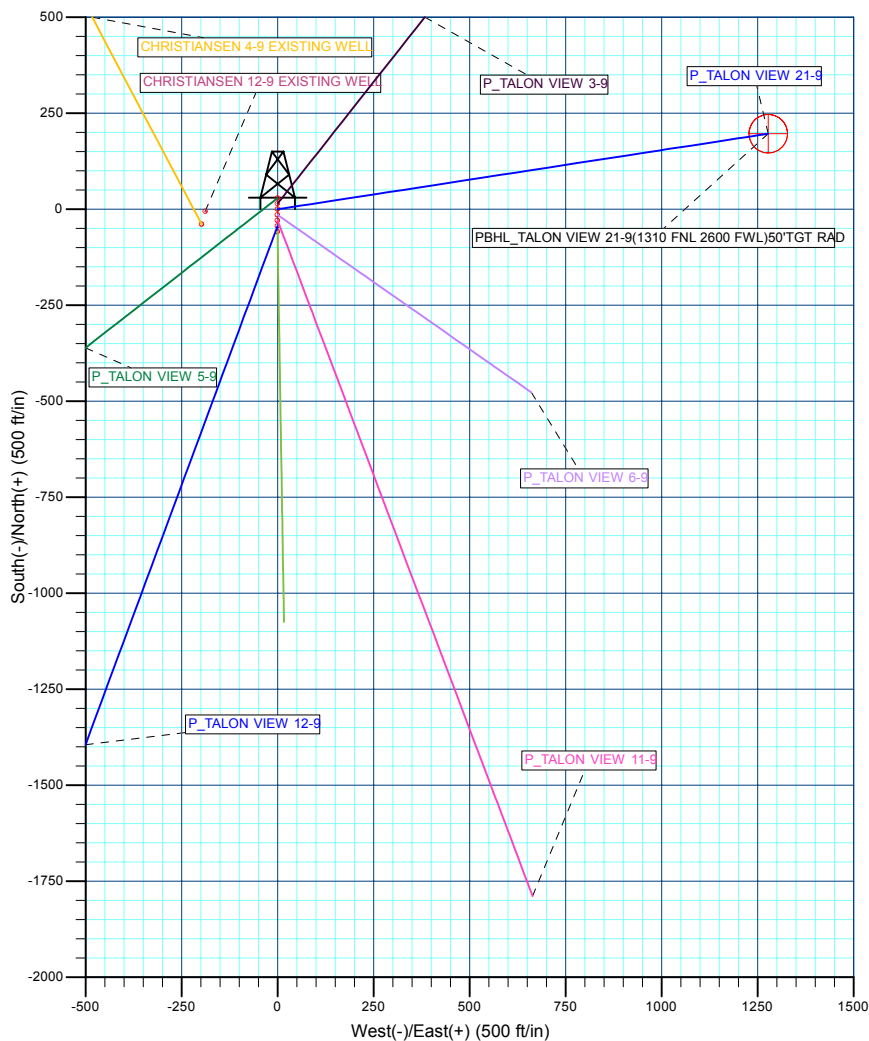
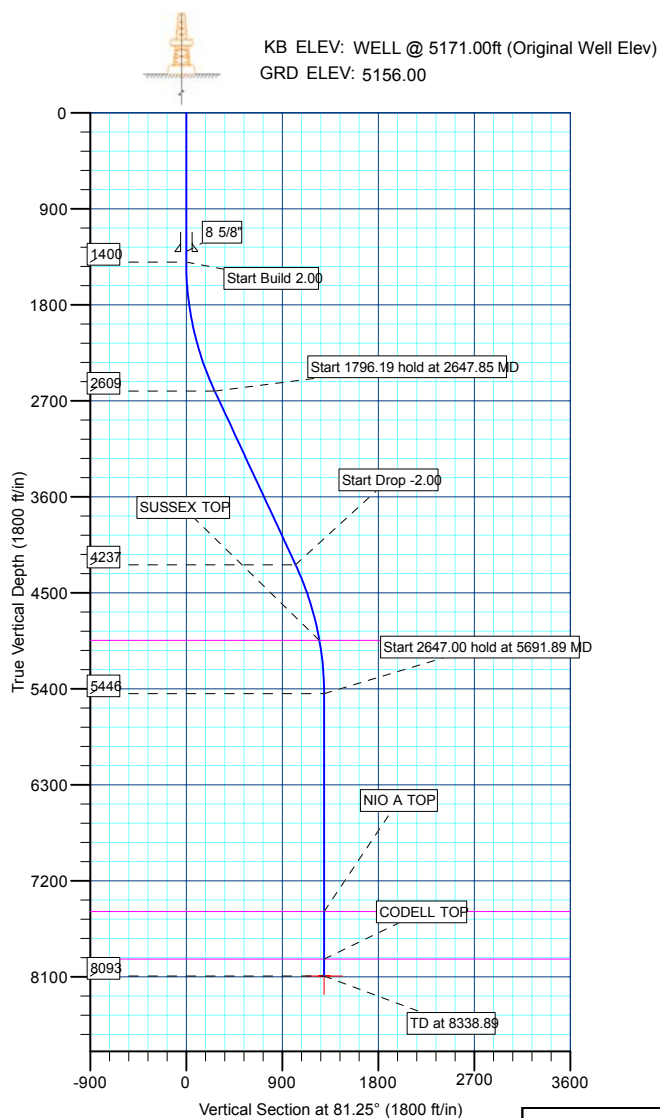
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	
2647.85	24.96	81.25	2608.76	40.71	264.38	2.00	81.25	267.50	
4444.04	24.96	81.25	4237.24	156.04	1013.44	0.00	0.00	1025.38	
5691.89	0.00	0.00	5446.00	196.75	1277.82	2.00	180.00	1292.88	
8338.89	0.00	0.00	8093.00	196.75	1277.82	0.00	0.00	1292.88	PBHL_TALON VIEW 21-9(1310 FNL 2600 FWL)50°TGT RAD

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4946.00	5189.32	SUSSEX TOP
7488.00	7733.89	NIO A TOP
7933.00	8178.89	CODELL TOP

CASING DETAILS

TVD	MD	Name	Size
1300.00	1300.00	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	8093.00	196.76	1277.82	1237172.45	3169806.09	39° 58' 58.188 N	104° 53' 38.508 W	Circle (Radius: 50.00)

Plan: PLAN #1 09-01-09 RHS (P\_TALON VIEW 21-9/P\_TALON VIEW 21-9)

Created By: Robert H. Scott



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_TALON VIEW 21-9		
<b>Design:</b>	PLAN #1 09-01-09 RHS		

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

Site		ADAMS_TALON VIEW 7 PAD, SETION 9 T1S R67W			
Site Position:		Northing:	1,236,937.91 ft	Latitude:	39° 58' 55.956 N
From:	Lat/Long	Easting:	3,168,529.83ft	Longitude:	104° 53' 54.924 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.39 °

Well	P_TALON VIEW 21-9					
Well Position	+N/-S	29.13 ft	Northing:	1,236,967.03 ft	Latitude:	39° 58' 56.244 N
	+E/-W	0.00 ft	Easting:	3,168,529.63 ft	Longitude:	104° 53' 54.924 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,156.00 ft

<b>Wellbore</b>	P_TALON VIEW 21-9				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	9/1/2009	9.10	66.76	53,101

<b>Design</b>	PLAN #1 09-01-09 RHS			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	81.25

<b>Plan Sections</b>										
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	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,647.85	24.96	81.25	2,608.76	40.71	264.38	2.00	2.00	0.00	81.25	
4,444.04	24.96	81.25	4,237.24	156.04	1,013.44	0.00	0.00	0.00	0.00	
5,691.89	0.00	0.00	5,446.00	196.75	1,277.82	2.00	-2.00	0.00	180.00	
8,338.89	0.00	0.00	8,093.00	196.75	1,277.82	0.00	0.00	0.00	0.00	PBHL_TALON VIEW



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_TALON VIEW 21-9		
<b>Design:</b>	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)
<b>Start Build 2.00</b>									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	2.00	81.25	1,499.98	0.27	1.72	1.75	2.00	2.00	0.00
1,600.00	4.00	81.25	1,599.84	1.06	6.90	6.98	2.00	2.00	0.00
1,700.00	6.00	81.25	1,699.45	2.39	15.51	15.69	2.00	2.00	0.00
1,800.00	8.00	81.25	1,798.70	4.24	27.56	27.88	2.00	2.00	0.00
1,900.00	10.00	81.25	1,897.47	6.62	43.02	43.52	2.00	2.00	0.00
2,000.00	12.00	81.25	1,995.62	9.53	61.87	62.60	2.00	2.00	0.00
2,100.00	14.00	81.25	2,093.06	12.95	84.11	85.10	2.00	2.00	0.00
2,200.00	16.00	81.25	2,189.64	16.89	109.68	110.98	2.00	2.00	0.00
2,300.00	18.00	81.25	2,285.27	21.34	138.58	140.21	2.00	2.00	0.00
2,400.00	20.00	81.25	2,379.82	26.29	170.76	172.77	2.00	2.00	0.00
2,500.00	22.00	81.25	2,473.17	31.75	206.17	208.60	2.00	2.00	0.00
2,600.00	24.00	81.25	2,565.21	37.69	244.79	247.67	2.00	2.00	0.00
<b>Start 1796.19 hold at 2647.85 MD</b>									
2,647.85	24.96	81.25	2,608.76	40.71	264.38	267.50	2.00	2.00	0.00
2,700.00	24.96	81.25	2,656.04	44.06	286.13	289.50	0.00	0.00	0.00
2,800.00	24.96	81.25	2,746.71	50.48	327.83	331.70	0.00	0.00	0.00
2,900.00	24.96	81.25	2,837.37	56.90	369.54	373.89	0.00	0.00	0.00
3,000.00	24.96	81.25	2,928.03	63.32	411.24	416.09	0.00	0.00	0.00
3,100.00	24.96	81.25	3,018.69	69.74	452.94	458.28	0.00	0.00	0.00
3,200.00	24.96	81.25	3,109.36	76.16	494.64	500.47	0.00	0.00	0.00
3,300.00	24.96	81.25	3,200.02	82.58	536.35	542.67	0.00	0.00	0.00
3,400.00	24.96	81.25	3,290.68	89.01	578.05	584.86	0.00	0.00	0.00
3,500.00	24.96	81.25	3,381.34	95.43	619.75	627.05	0.00	0.00	0.00
3,600.00	24.96	81.25	3,472.01	101.85	661.45	669.25	0.00	0.00	0.00
3,700.00	24.96	81.25	3,562.67	108.27	703.16	711.44	0.00	0.00	0.00
3,800.00	24.96	81.25	3,653.33	114.69	744.86	753.64	0.00	0.00	0.00
3,900.00	24.96	81.25	3,743.99	121.11	786.56	795.83	0.00	0.00	0.00
4,000.00	24.96	81.25	3,834.66	127.53	828.26	838.02	0.00	0.00	0.00
4,100.00	24.96	81.25	3,925.32	133.95	869.97	880.22	0.00	0.00	0.00
4,200.00	24.96	81.25	4,015.98	140.37	911.67	922.41	0.00	0.00	0.00
4,300.00	24.96	81.25	4,106.64	146.80	953.37	964.61	0.00	0.00	0.00
4,400.00	24.96	81.25	4,197.31	153.22	995.07	1,006.80	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
4,444.04	24.96	81.25	4,237.24	156.04	1,013.44	1,025.38	0.00	0.00	0.00
4,500.00	23.84	81.25	4,288.20	159.56	1,036.28	1,048.50	2.00	-2.00	0.00
4,600.00	21.84	81.25	4,380.35	165.47	1,074.64	1,087.31	2.00	-2.00	0.00
4,700.00	19.84	81.25	4,473.81	170.88	1,109.80	1,122.88	2.00	-2.00	0.00
4,800.00	17.84	81.25	4,568.44	175.80	1,141.71	1,155.16	2.00	-2.00	0.00
4,900.00	15.84	81.25	4,664.15	180.20	1,170.34	1,184.13	2.00	-2.00	0.00
5,000.00	13.84	81.25	4,760.81	184.10	1,195.65	1,209.74	2.00	-2.00	0.00
5,100.00	11.84	81.25	4,858.31	187.48	1,217.61	1,231.96	2.00	-2.00	0.00
<b>SUSSEX TOP</b>									
5,189.32	10.05	81.25	4,946.00	190.06	1,234.37	1,248.91	2.00	-2.00	0.00
5,200.00	9.84	81.25	4,956.52	190.34	1,236.19	1,250.76	2.00	-2.00	0.00
5,300.00	7.84	81.25	5,055.33	192.68	1,251.37	1,266.12	2.00	-2.00	0.00
5,400.00	5.84	81.25	5,154.61	194.49	1,263.14	1,278.03	2.00	-2.00	0.00
5,500.00	3.84	81.25	5,254.25	195.78	1,271.47	1,286.46	2.00	-2.00	0.00
5,600.00	1.84	81.25	5,354.12	196.53	1,276.37	1,291.41	2.00	-2.00	0.00
<b>Start 1.00 hold at 5691.89 MD</b>									
5,691.89	0.00	0.00	5,446.00	196.75	1,277.82	1,292.88	2.00	-2.00	0.00
<b>TD at 5692.89</b>									



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_TALON VIEW 21-9		
<b>Design:</b>	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)
5,692.89	0.00	0.00	5,447.00	196.75	1,277.82	1,292.88	0.00	0.00	0.00
5,700.00	0.00	0.00	5,454.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
5,800.00	0.00	0.00	5,554.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
5,900.00	0.00	0.00	5,654.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,000.00	0.00	0.00	5,754.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,100.00	0.00	0.00	5,854.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,200.00	0.00	0.00	5,954.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,300.00	0.00	0.00	6,054.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,400.00	0.00	0.00	6,154.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,500.00	0.00	0.00	6,254.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,600.00	0.00	0.00	6,354.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,700.00	0.00	0.00	6,454.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,800.00	0.00	0.00	6,554.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
6,900.00	0.00	0.00	6,654.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,000.00	0.00	0.00	6,754.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,100.00	0.00	0.00	6,854.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,200.00	0.00	0.00	6,954.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,300.00	0.00	0.00	7,054.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,400.00	0.00	0.00	7,154.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,500.00	0.00	0.00	7,254.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,600.00	0.00	0.00	7,354.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,700.00	0.00	0.00	7,454.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
<b>NIO A TOP</b>									
7,733.89	0.00	0.00	7,488.00	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,800.00	0.00	0.00	7,554.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
7,900.00	0.00	0.00	7,654.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
8,000.00	0.00	0.00	7,754.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
8,100.00	0.00	0.00	7,854.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
<b>CODELL TOP</b>									
8,178.89	0.00	0.00	7,933.00	196.75	1,277.82	1,292.88	0.00	0.00	0.00
8,200.00	0.00	0.00	7,954.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
8,300.00	0.00	0.00	8,054.11	196.75	1,277.82	1,292.88	0.00	0.00	0.00
<b>PBHL_TALON VIEW 21-9(1310 FNL 2600 FWL)50'TGT RAD</b>									
8,338.89	0.00	0.00	8,093.00	196.75	1,277.82	1,292.88	0.00	0.00	0.00

#### Design Targets

##### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL_TALON VIEW	0.00	0.00	8,093.00	196.76	1,277.82	1,237,172.45	3,169,806.09	39° 58' 58.188 N	104° 53' 38.508 W
- plan hits target center									
- Circle (radius 50.00)									

#### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,300.00	1,300.00	8 5/8"	8.62	11.00



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_TALON VIEW 21-9		
<b>Design:</b>	PLAN #1 09-01-09 RHS		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,189.32	4,946.00	SUSSEX TOP			
7,733.89	7,488.00	NIO A TOP			
8,178.89	7,933.00	CODELL TOP			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,400.00	1,400.00	0.00	0.00	Start Build 2.00
2,647.85	2,608.76	40.71	264.38	Start 1796.19 hold at 2647.85 MD
4,444.04	4,237.24	156.04	1,013.44	Start Drop -2.00
5,691.89	5,446.00	196.75	1,277.82	Start 1.00 hold at 5691.89 MD
5,692.89	5,447.00	196.75	1,277.82	TD at 5692.89



# **US ROCKIES REGION PLANNING**

**KERR MCGEE OIL & GAS ONSHORE LP  
ADAMS\_TALON VIEW 7 PAD  
P\_TALON VIEW 21-9**

**P\_TALON VIEW 21-9  
PLAN #1 09-01-09 RHS**

## **Anticollision Report**

**01 September, 2009**





# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #1 09-01-09 RHS		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	0.00 to 20,000.00ft	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.00ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 9/1/2009			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	8,338.89	PLAN #1 09-01-09 RHS (P_TALON VIEW	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						
ADAMS_TALON VIEW 7 PAD						
CHRISTIENSEN 12-9 EXISTING WELL - CHRISTIANSE	1,400.00	1,400.00	188.33	131.55	3.317	CC
CHRISTIENSEN 12-9 EXISTING WELL - CHRISTIANSE	1,500.00	1,499.98	190.06	129.10	3.118	ES
CHRISTIENSEN 12-9 EXISTING WELL - CHRISTIANSE	1,700.00	1,699.45	203.91	134.88	2.954	SF
CHRISTIENSEN 4-9 EXISTING WELL - CHRISTIANSE	1,400.00	1,400.00	201.64	195.60	33.393	CC, ES
CHRISTIENSEN 4-9 EXISTING WELL - CHRISTIANSE	1,700.00	1,694.82	219.40	212.12	30.137	SF
P_TALON VIEW 11-9 - P_TALON VIEW 11-9 - PLAN #1	1,400.00	1,400.00	29.13	23.09	4.826	CC, ES
P_TALON VIEW 11-9 - P_TALON VIEW 11-9 - PLAN #1	1,500.00	1,499.01	31.03	24.58	4.815	SF
P_TALON VIEW 12-9 - P_TALON VIEW 12-9 - PLAN #1	1,400.00	1,400.00	43.70	37.67	7.242	CC, ES
P_TALON VIEW 12-9 - P_TALON VIEW 12-9 - PLAN #1	1,500.00	1,498.50	45.64	39.20	7.084	SF
P_TALON VIEW 22-9 - P_TALON VIEW 22-9 - PLAN #1	1,400.00	1,400.00	58.29	52.26	9.659	CC, ES
P_TALON VIEW 22-9 - P_TALON VIEW 22-9 - PLAN #1	1,500.00	1,497.94	60.29	53.85	9.361	SF
P_TALON VIEW 3-9 - P_TALON VIEW 3-9 - PLAN #1 05	1,400.00	1,400.00	14.58	8.54	2.416	CC, ES, SF
P_TALON VIEW 5-9 - P_TALON VIEW 5-9 - PLAN #1 05	1,584.81	1,585.25	26.76	19.97	3.944	CC, ES
P_TALON VIEW 5-9 - P_TALON VIEW 5-9 - PLAN #1 05	1,600.00	1,600.34	26.83	19.99	3.921	SF
P_TALON VIEW 6-9 - P_TALON VIEW 6-9 - PLAN #1 05	1,400.00	1,400.00	14.57	8.53	2.414	CC, ES, SF

<b>Offset Design</b> ADAMS_TALON VIEW 7 PAD - CHRISTIANSEN 12-9 EXISTING WELL - CHRISTIANSEN 12-9 EXISTI													<b>Offset Site Error:</b> 0.00 ft
<b>Survey Program:</b> 0-UNKNOWN													<b>Offset Well Error:</b> 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)	Offset Wellbore Centre +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	-91.66	-5.44	-188.25	188.33				
100.00	100.00	100.00	100.00	0.10	1.76	-91.66	-5.44	-188.25	188.33	186.48	1.86	101.498	
200.00	200.00	200.00	200.00	0.32	5.76	-91.66	-5.44	-188.25	188.33	182.25	6.08	30.974	
300.00	300.00	300.00	300.00	0.55	9.76	-91.66	-5.44	-188.25	188.33	178.03	10.31	18.276	
400.00	400.00	400.00	400.00	0.77	13.76	-91.66	-5.44	-188.25	188.33	173.80	14.53	12.962	
500.00	500.00	500.00	500.00	0.99	17.76	-91.66	-5.44	-188.25	188.33	169.58	18.75	10.042	
600.00	600.00	600.00	600.00	1.22	21.76	-91.66	-5.44	-188.25	188.33	165.35	22.98	8.196	
700.00	700.00	700.00	700.00	1.44	25.76	-91.66	-5.44	-188.25	188.33	161.13	27.20	6.923	
800.00	800.00	800.00	800.00	1.67	29.76	-91.66	-5.44	-188.25	188.33	156.90	31.43	5.992	
900.00	900.00	900.00	900.00	1.89	33.76	-91.66	-5.44	-188.25	188.33	152.68	35.65	5.282	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	37.76	-91.66	-5.44	-188.25	188.33	148.45	39.88	4.723	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	41.76	-91.66	-5.44	-188.25	188.33	144.23	44.10	4.270	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	45.76	-91.66	-5.44	-188.25	188.33	140.00	48.33	3.897	

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_TALON VIEW 21-9
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5171.00ft (Original Well Elev)
Reference Site:	ADAMS_TALON VIEW 7 PAD	MD Reference:	WELL @ 5171.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_TALON VIEW 21-9	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_TALON VIEW 21-9	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	
1,300.00	1,300.00	1,300.00	1,300.00	2.79	49.76	-91.66	-5.44	-188.25	188.33	135.78	52.55	3.584	
1,400.00	1,400.00	1,400.00	1,400.00	3.02	53.76	-91.66	-5.44	-188.25	188.33	131.55	56.78	3.317 CC	
1,500.00	1,499.98	1,499.98	1,499.98	3.23	57.76	-172.96	-5.44	-188.25	190.06	129.10	60.96	3.118 ES	
1,600.00	1,599.84	1,599.84	1,599.84	3.44	61.75	-173.14	-5.44	-188.25	195.26	130.21	65.05	3.002	
1,700.00	1,699.45	1,699.45	1,699.45	3.66	65.74	-173.41	-5.44	-188.25	203.91	134.88	69.04	2.954 SF	
1,800.00	1,798.70	1,798.70	1,798.70	3.89	69.71	-173.76	-5.44	-188.25	216.03	143.12	72.90	2.963	
1,900.00	1,897.47	1,897.47	1,897.47	4.15	73.66	-174.14	-5.44	-188.25	231.58	154.96	76.63	3.022	
2,000.00	1,995.62	1,995.62	1,995.62	4.44	77.58	-174.55	-5.44	-188.25	250.57	170.38	80.19	3.125	
2,100.00	2,093.06	2,093.06	2,093.06	4.78	81.48	-174.96	-5.44	-188.25	272.98	189.39	83.58	3.266	
2,200.00	2,189.64	2,189.64	2,189.64	5.17	85.35	-175.35	-5.44	-188.25	298.77	211.99	86.79	3.443	
2,300.00	2,285.27	2,285.27	2,285.27	5.61	89.17	-175.72	-5.44	-188.25	327.93	238.15	89.78	3.653	
2,400.00	2,379.82	2,379.82	2,379.82	6.12	92.95	-176.06	-5.44	-188.25	360.41	267.85	92.56	3.894	
2,500.00	2,473.17	2,473.17	2,473.17	6.70	96.69	-176.37	-5.44	-188.25	396.18	301.07	95.10	4.166	
2,600.00	2,565.21	2,565.21	2,565.21	7.36	100.37	-176.65	-5.44	-188.25	435.19	337.79	97.40	4.468	
2,647.85	2,608.76	2,608.76	2,608.76	7.70	102.11	-176.77	-5.44	-188.25	454.98	356.58	98.41	4.623	
2,700.00	2,656.04	2,656.04	2,656.04	8.09	104.00	-176.92	-5.44	-188.25	476.96	376.69	100.28	4.757	
2,800.00	2,746.71	2,746.71	2,746.71	8.85	107.63	-177.17	-5.44	-188.25	519.11	415.25	103.86	4.998	
2,900.00	2,837.37	2,837.37	2,837.37	9.63	111.25	-177.38	-5.44	-188.25	561.26	453.81	107.45	5.223	
3,000.00	2,928.03	2,928.03	2,928.03	10.43	114.88	-177.56	-5.44	-188.25	603.42	492.37	111.05	5.434	
3,100.00	3,018.69	3,018.69	3,018.69	11.24	118.51	-177.72	-5.44	-188.25	645.59	530.93	114.66	5.630	
3,200.00	3,109.36	3,109.36	3,109.36	12.06	122.13	-177.86	-5.44	-188.25	687.76	569.48	118.27	5.815	
3,300.00	3,200.02	3,200.02	3,200.02	12.89	125.76	-177.98	-5.44	-188.25	729.93	608.04	121.89	5.988	
3,400.00	3,290.68	3,290.68	3,290.68	13.73	129.39	-178.10	-5.44	-188.25	772.10	646.59	125.51	6.152	
3,500.00	3,381.34	3,381.34	3,381.34	14.57	133.01	-178.19	-5.44	-188.25	814.28	685.14	129.14	6.306	
3,600.00	3,472.01	3,472.01	3,472.01	15.42	136.64	-178.28	-5.44	-188.25	856.45	723.69	132.76	6.451	
3,700.00	3,562.67	3,562.67	3,562.67	16.27	140.27	-178.36	-5.44	-188.25	898.63	762.24	136.40	6.588	
3,800.00	3,653.33	3,653.33	3,653.33	17.12	143.89	-178.44	-5.44	-188.25	940.81	800.78	140.03	6.719	
3,900.00	3,743.99	3,743.99	3,743.99	17.98	147.52	-178.50	-5.44	-188.25	982.99	839.33	143.66	6.842	
4,000.00	3,834.66	3,834.66	3,834.66	18.84	151.15	-178.57	-5.44	-188.25	1,025.18	877.88	147.30	6.960	
4,100.00	3,925.32	3,925.32	3,925.32	19.71	154.77	-178.62	-5.44	-188.25	1,067.36	916.42	150.94	7.071	
4,200.00	4,015.98	4,015.98	4,015.98	20.57	158.40	-178.67	-5.44	-188.25	1,109.54	954.96	154.58	7.178	
4,300.00	4,106.64	4,106.64	4,106.64	21.44	162.03	-178.72	-5.44	-188.25	1,151.73	993.51	158.22	7.279	
4,400.00	4,197.31	4,197.31	4,197.31	22.31	165.65	-178.77	-5.44	-188.25	1,193.91	1,032.05	161.87	7.376	
4,444.04	4,237.24	4,237.24	4,237.24	22.69	167.25	-178.79	-5.44	-188.25	1,212.49	1,049.02	163.47	7.417	
4,500.00	4,288.20	4,288.20	4,288.20	23.12	169.29	-178.82	-5.44	-188.25	1,235.60	1,068.75	166.85	7.405	
4,600.00	4,380.35	4,380.35	4,380.35	23.77	172.97	-178.87	-5.44	-188.25	1,274.41	1,101.58	172.83	7.374	
4,700.00	4,473.81	4,473.81	4,473.81	24.37	176.71	-178.92	-5.44	-188.25	1,309.97	1,131.21	178.76	7.328	
4,800.00	4,568.44	4,568.44	4,568.44	24.92	180.50	-178.96	-5.44	-188.25	1,342.26	1,157.61	184.65	7.269	
4,900.00	4,664.15	4,664.15	4,664.15	25.42	184.33	-178.99	-5.44	-188.25	1,371.22	1,180.79	190.43	7.201	
5,000.00	4,760.81	4,760.81	4,760.81	25.87	188.19	-179.02	-5.44	-188.25	1,396.82	1,200.75	196.06	7.124	
5,100.00	4,858.31	4,858.31	4,858.31	26.27	192.09	-179.04	-5.44	-188.25	1,419.03	1,217.49	201.55	7.041	
5,200.00	4,956.52	4,956.52	4,956.52	26.61	196.02	-179.06	-5.44	-188.25	1,437.83	1,230.98	206.86	6.951	
5,300.00	5,055.33	5,055.33	5,055.33	26.90	199.97	-179.07	-5.44	-188.25	1,453.20	1,241.23	211.97	6.856	
5,400.00	5,154.61	5,154.61	5,154.61	27.15	203.94	-179.09	-5.44	-188.25	1,465.10	1,248.23	216.87	6.756	
5,500.00	5,254.25	5,254.25	5,254.25	27.34	207.93	-179.09	-5.44	-188.25	1,473.53	1,252.00	221.53	6.652	
5,600.00	5,354.12	5,354.12	5,354.12	27.49	211.92	-179.10	-5.44	-188.25	1,478.48	1,252.55	225.93	6.544	
5,691.89	5,446.00	5,446.00	5,446.00	27.58	215.60	-97.85	-5.44	-188.25	1,479.96	1,250.22	229.74	6.442	
5,700.00	5,454.11	5,454.11	5,454.11	27.59	215.92	-97.85	-5.44	-188.25	1,479.96	1,249.88	230.08	6.432	
5,800.00	5,554.11	5,554.11	5,554.11	27.68	219.92	-97.85	-5.44	-188.25	1,479.96	1,245.71	234.25	6.318	
5,900.00	5,654.11	5,654.11	5,654.11	27.78	223.92	-97.85	-5.44	-188.25	1,479.96	1,241.54	238.42	6.207	
6,000.00	5,754.11	5,754.11	5,754.11	27.88	227.92	-97.85	-5.44	-188.25	1,479.96	1,237.37	242.59	6.101	
6,100.00	5,854.11	5,854.11	5,854.11	27.97	231.92	-97.85	-5.44	-188.25	1,479.96	1,233.20	246.76	5.998	

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



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	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		
6,200.00	5,954.11	5,954.11	5,954.11	28.07	235.92	-97.85	-5.44	-188.25	1,479.96	1,229.02	250.93	5.898		
6,300.00	6,054.11	6,054.11	6,054.11	28.18	239.92	-97.85	-5.44	-188.25	1,479.96	1,224.85	255.11	5.801		
6,400.00	6,154.11	6,154.11	6,154.11	28.28	243.92	-97.85	-5.44	-188.25	1,479.96	1,220.67	259.29	5.708		
6,500.00	6,254.11	6,254.11	6,254.11	28.38	247.92	-97.85	-5.44	-188.25	1,479.96	1,216.49	263.46	5.617		
6,600.00	6,354.11	6,354.11	6,354.11	28.49	251.92	-97.85	-5.44	-188.25	1,479.96	1,212.31	267.64	5.530		
6,700.00	6,454.11	6,454.11	6,454.11	28.60	255.92	-97.85	-5.44	-188.25	1,479.96	1,208.13	271.82	5.445		
6,800.00	6,554.11	6,554.11	6,554.11	28.70	259.92	-97.85	-5.44	-188.25	1,479.96	1,203.95	276.01	5.362		
6,900.00	6,654.11	6,654.11	6,654.11	28.81	263.92	-97.85	-5.44	-188.25	1,479.96	1,199.77	280.19	5.282		
7,000.00	6,754.11	6,754.11	6,754.11	28.92	267.92	-97.85	-5.44	-188.25	1,479.96	1,195.58	284.37	5.204		
7,100.00	6,854.11	6,854.11	6,854.11	29.04	271.92	-97.85	-5.44	-188.25	1,479.96	1,191.40	288.56	5.129		
7,200.00	6,954.11	6,954.11	6,954.11	29.15	275.92	-97.85	-5.44	-188.25	1,479.96	1,187.21	292.74	5.055		
7,300.00	7,054.11	7,054.11	7,054.11	29.26	279.92	-97.85	-5.44	-188.25	1,479.96	1,183.03	296.93	4.984		
7,400.00	7,154.11	7,154.11	7,154.11	29.38	283.92	-97.85	-5.44	-188.25	1,479.96	1,178.84	301.12	4.915		
7,500.00	7,254.11	7,254.11	7,254.11	29.50	287.92	-97.85	-5.44	-188.25	1,479.96	1,174.65	305.30	4.847		
7,600.00	7,354.11	7,354.11	7,354.11	29.62	291.92	-97.85	-5.44	-188.25	1,479.96	1,170.46	309.49	4.782		
7,700.00	7,454.11	7,454.11	7,454.11	29.74	295.92	-97.85	-5.44	-188.25	1,479.96	1,166.27	313.68	4.718		
7,800.00	7,554.11	7,554.11	7,554.11	29.86	299.92	-97.85	-5.44	-188.25	1,479.96	1,162.08	317.87	4.656		
7,900.00	7,654.11	7,654.11	7,654.11	29.98	303.92	-97.85	-5.44	-188.25	1,479.96	1,157.89	322.07	4.595		
8,000.00	7,754.11	7,754.11	7,754.11	30.10	307.92	-97.85	-5.44	-188.25	1,479.96	1,153.70	326.26	4.536		
8,100.00	7,854.11	7,854.11	7,854.11	30.23	311.92	-97.85	-5.44	-188.25	1,479.96	1,149.50	330.45	4.479		
8,200.00	7,954.11	7,954.11	7,954.11	30.35	315.92	-97.85	-5.44	-188.25	1,479.96	1,145.31	334.65	4.422		
8,300.00	8,054.11	8,054.11	8,054.11	30.48	319.92	-97.85	-5.44	-188.25	1,479.96	1,141.11	338.84	4.368		
8,338.89	8,093.00	8,093.00	8,093.00	30.53	321.48	-97.85	-5.44	-188.25	1,479.96	1,139.48	340.47	4.347		



Weatherford International Ltd.  
Anticollision Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_TALON VIEW 21-9
Project:	KERR MCGEE OIL & GAS ONSHORE LP	TVD Reference:	WELL @ 5171.00ft (Original Well Elev)
Reference Site:	ADAMS_TALON VIEW 7 PAD	MD Reference:	WELL @ 5171.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	P_TALON VIEW 21-9	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	P_TALON VIEW 21-9	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-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	-101.03	-38.56	-197.91	201.64				
100.00	100.00	100.00	100.00	0.10	0.10	-101.03	-38.56	-197.91	201.64	201.44	0.19	1,037.097	
200.00	200.00	200.00	200.00	0.32	0.32	-101.03	-38.56	-197.91	201.64	200.99	0.64	313.120	
300.00	300.00	300.00	300.00	0.55	0.55	-101.03	-38.56	-197.91	201.64	200.54	1.09	184.397	
400.00	400.00	400.00	400.00	0.77	0.77	-101.03	-38.56	-197.91	201.64	200.09	1.54	130.676	
500.00	500.00	500.00	500.00	0.99	1.00	-101.03	-38.56	-197.91	201.64	199.64	1.99	101.195	
600.00	600.00	600.00	600.00	1.22	1.22	-101.03	-38.56	-197.91	201.64	199.19	2.44	82.567	
700.00	700.00	700.00	700.00	1.44	1.45	-101.03	-38.56	-197.91	201.64	198.74	2.89	69.731	
800.00	800.00	800.00	800.00	1.67	1.67	-101.03	-38.56	-197.91	201.64	198.29	3.34	60.349	
900.00	900.00	900.00	900.00	1.89	1.90	-101.03	-38.56	-197.91	201.64	197.84	3.79	53.192	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-101.03	-38.56	-197.91	201.64	197.40	4.24	47.553	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.35	-101.03	-38.56	-197.91	201.64	196.95	4.69	42.995	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-101.03	-38.56	-197.91	201.64	196.50	5.14	39.234	
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.80	-101.03	-38.56	-197.91	201.64	196.05	5.59	36.078	
1,400.00	1,400.00	1,400.00	1,400.00	3.02	3.02	-101.03	-38.56	-197.91	201.64	195.60	6.04	33.393 CC, ES	
1,500.00	1,499.98	1,499.98	1,499.98	3.23	3.25	177.75	-38.56	-197.91	203.38	196.91	6.47	31.425	
1,600.00	1,599.84	1,597.73	1,597.71	3.44	3.46	178.24	-37.09	-198.69	209.11	202.23	6.88	30.392	
1,700.00	1,699.45	1,694.82	1,694.67	3.66	3.68	179.54	-32.71	-201.01	219.40	212.12	7.28	30.137 SF	
1,800.00	1,798.70	1,790.82	1,790.32	3.89	3.90	-178.52	-25.52	-204.81	234.41	226.74	7.67	30.548	
1,900.00	1,897.47	1,885.30	1,884.14	4.15	4.12	-176.19	-15.69	-210.00	254.35	246.29	8.06	31.543	
2,000.00	1,995.62	1,977.86	1,975.65	4.44	4.36	-173.68	-3.41	-216.49	279.38	270.93	8.45	33.046	
2,100.00	2,093.06	2,068.16	2,064.44	4.78	4.61	-171.14	11.09	-224.15	309.59	300.74	8.85	34.984	
2,200.00	2,189.64	2,155.87	2,150.15	5.17	4.88	-168.68	27.53	-232.84	344.96	335.71	9.25	37.283	
2,300.00	2,285.27	2,240.73	2,232.50	5.61	5.17	-166.38	45.63	-242.41	385.40	375.73	9.67	39.875	
2,400.00	2,379.82	2,326.52	2,315.23	6.12	5.50	-164.21	65.73	-253.03	430.49	420.39	10.11	42.600	
2,500.00	2,473.17	2,413.34	2,398.89	6.70	5.85	-162.40	86.24	-263.88	478.99	468.42	10.57	45.322	
2,600.00	2,565.21	2,498.62	2,481.07	7.36	6.21	-160.93	106.39	-274.53	530.55	519.51	11.05	48.023	
2,647.85	2,608.76	2,538.86	2,519.84	7.70	6.39	-160.33	115.89	-279.55	556.26	544.97	11.29	49.291	
2,700.00	2,656.04	2,582.49	2,561.89	8.09	6.59	-159.95	126.20	-285.00	584.64	573.03	11.61	50.337	
2,800.00	2,746.71	2,666.17	2,642.52	8.85	6.97	-159.32	145.97	-295.45	639.11	626.84	12.27	52.107	
2,900.00	2,837.37	2,749.84	2,723.15	9.63	7.36	-158.79	165.74	-305.90	693.62	680.68	12.94	53.618	
3,000.00	2,928.03	2,833.52	2,803.78	10.43	7.75	-158.33	185.51	-316.35	748.16	734.54	13.62	54.912	
3,100.00	3,018.69	2,917.19	2,884.42	11.24	8.16	-157.94	205.28	-326.79	802.74	788.41	14.33	56.025	
3,200.00	3,109.36	3,000.86	2,965.05	12.06	8.57	-157.59	225.05	-337.24	857.34	842.29	15.04	56.986	
3,300.00	3,200.02	3,084.54	3,045.68	12.89	8.98	-157.29	244.82	-347.69	911.96	896.18	15.77	57.816	
3,400.00	3,290.68	3,168.21	3,126.31	13.73	9.40	-157.02	264.59	-358.14	966.59	950.08	16.51	58.540	
3,500.00	3,381.34	3,251.89	3,206.94	14.57	9.82	-156.78	284.36	-368.59	1,021.24	1,003.98	17.26	59.174	
3,600.00	3,472.01	3,335.56	3,287.57	15.42	10.25	-156.57	304.13	-379.04	1,075.90	1,057.89	18.01	59.731	
3,700.00	3,562.67	3,419.24	3,368.20	16.27	10.68	-156.37	323.90	-389.49	1,130.57	1,111.80	18.77	60.223	
3,800.00	3,653.33	3,502.91	3,448.84	17.12	11.11	-156.20	343.67	-399.94	1,185.25	1,165.71	19.54	60.660	
3,900.00	3,743.99	3,586.59	3,529.47	17.98	11.54	-156.03	363.44	-410.39	1,239.93	1,219.62	20.31	61.047	
4,000.00	3,834.66	3,670.26	3,610.10	18.84	11.98	-155.89	383.21	-420.84	1,294.62	1,273.53	21.09	61.393	
4,100.00	3,925.32	3,753.94	3,690.73	19.71	12.42	-155.75	402.98	-431.28	1,349.32	1,327.45	21.87	61.703	
4,200.00	4,015.98	3,837.61	3,771.36	20.57	12.86	-155.63	422.75	-441.73	1,404.02	1,381.37	22.65	61.982	
4,300.00	4,106.64	3,921.29	3,851.99	21.44	13.30	-155.51	442.52	-452.18	1,458.72	1,435.29	23.44	62.235	
4,400.00	4,197.31	4,004.96	3,932.62	22.31	13.74	-155.40	462.29	-462.63	1,513.43	1,489.20	24.23	62.463	
4,444.04	4,237.24	4,041.81	3,968.14	22.69	13.93	-155.36	470.99	-467.23	1,537.53	1,512.95	24.58	62.556	
4,500.00	4,288.20	4,088.90	4,013.51	23.12	14.18	-155.59	482.12	-473.11	1,567.73	1,542.63	25.10	62.465	
4,600.00	4,380.35	4,174.31	4,095.81	23.77	14.64	-155.93	502.30	-483.78	1,619.60	1,593.61	25.99	62.315	
4,700.00	4,473.81	4,261.25	4,179.59	24.37	15.10	-156.19	522.84	-494.64	1,668.73	1,641.86	26.87	62.113	
4,800.00	4,568.44	4,349.62	4,264.75	24.92	15.57	-156.36	543.72	-505.67	1,715.07	1,687.35	27.72	61.870	
4,900.00	4,664.15	4,439.32	4,351.18	25.42	16.05	-156.46	564.91	-516.87	1,758.59	1,730.04	28.55	61.595	

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



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,760.81	4,530.22	4,438.78	25.87	16.54	-156.50	586.39	-528.22	1,799.24	1,769.89	29.35	61.295	
5,100.00	4,858.31	4,622.23	4,527.44	26.27	17.03	-156.48	608.13	-539.71	1,837.00	1,806.88	30.13	60.977	
5,200.00	4,956.52	4,715.22	4,617.06	26.61	17.53	-156.39	630.10	-551.33	1,871.85	1,840.99	30.86	60.647	
5,300.00	5,055.33	4,809.09	4,707.51	26.90	18.04	-156.25	652.28	-563.05	1,903.77	1,872.20	31.57	60.307	
5,400.00	5,154.61	4,903.73	4,798.70	27.15	18.55	-156.05	674.63	-574.87	1,932.74	1,900.51	32.23	59.962	
5,500.00	5,254.25	4,999.00	4,890.51	27.34	19.06	-155.80	697.15	-586.76	1,958.76	1,925.90	32.86	59.614	
5,600.00	5,354.12	5,094.81	4,982.84	27.49	19.58	-155.50	719.78	-598.73	1,981.83	1,948.39	33.44	59.266	
5,691.89	5,446.00	5,183.22	5,068.03	27.58	20.06	-73.93	740.67	-609.77	2,000.43	1,966.49	33.93	58.949	
5,700.00	5,454.11	5,191.03	5,075.56	27.59	20.10	-73.88	742.51	-610.74	2,001.96	1,967.98	33.98	58.911	
5,800.00	5,554.11	5,372.97	5,252.13	27.68	20.88	-72.98	781.18	-631.18	2,019.17	1,984.33	34.84	57.954	
5,900.00	5,654.11	5,572.29	5,448.32	27.78	21.51	-72.28	812.09	-647.52	2,031.73	1,996.15	35.58	57.098	
6,000.00	5,754.11	5,775.64	5,650.48	27.88	21.98	-71.85	831.13	-657.58	2,039.35	2,003.16	36.19	56.344	
6,100.00	5,854.11	5,979.43	5,854.11	27.97	22.29	-71.71	837.44	-660.91	2,041.86	2,005.19	36.67	55.688	
6,200.00	5,954.11	6,079.43	5,954.11	28.07	22.41	-71.71	837.44	-660.91	2,041.86	2,004.90	36.95	55.253	
6,300.00	6,054.11	6,179.43	6,054.11	28.18	22.54	-71.71	837.44	-660.91	2,041.86	2,004.61	37.25	54.817	
6,400.00	6,154.11	6,279.43	6,154.11	28.28	22.67	-71.71	837.44	-660.91	2,041.86	2,004.31	37.55	54.384	
6,500.00	6,254.11	6,379.43	6,254.11	28.38	22.79	-71.71	837.44	-660.91	2,041.86	2,004.01	37.85	53.953	
6,600.00	6,354.11	6,479.43	6,354.11	28.49	22.93	-71.71	837.44	-660.91	2,041.86	2,003.71	38.15	53.525	
6,700.00	6,454.11	6,579.43	6,454.11	28.60	23.06	-71.71	837.44	-660.91	2,041.86	2,003.40	38.45	53.099	
6,800.00	6,554.11	6,679.43	6,554.11	28.70	23.19	-71.71	837.44	-660.91	2,041.86	2,003.09	38.76	52.677	
6,900.00	6,654.11	6,779.43	6,654.11	28.81	23.33	-71.71	837.44	-660.91	2,041.86	2,002.78	39.07	52.257	
7,000.00	6,754.11	6,879.43	6,754.11	28.92	23.46	-71.71	837.44	-660.91	2,041.86	2,002.47	39.39	51.841	
7,100.00	6,854.11	6,979.43	6,854.11	29.04	23.60	-71.71	837.44	-660.91	2,041.86	2,002.15	39.70	51.428	
7,200.00	6,954.11	7,079.43	6,954.11	29.15	23.74	-71.71	837.44	-660.91	2,041.86	2,001.83	40.02	51.018	
7,300.00	7,054.11	7,179.43	7,054.11	29.26	23.88	-71.71	837.44	-660.91	2,041.86	2,001.51	40.34	50.611	
7,400.00	7,154.11	7,279.43	7,154.11	29.38	24.02	-71.71	837.44	-660.91	2,041.86	2,001.19	40.67	50.208	
7,500.00	7,254.11	7,379.43	7,254.11	29.50	24.16	-71.71	837.44	-660.91	2,041.86	2,000.86	40.99	49.808	
7,600.00	7,354.11	7,479.43	7,354.11	29.62	24.31	-71.71	837.44	-660.91	2,041.86	2,000.53	41.32	49.412	
7,700.00	7,454.11	7,579.43	7,454.11	29.74	24.45	-71.71	837.44	-660.91	2,041.86	2,000.20	41.65	49.020	
7,727.36	7,481.47	7,606.79	7,481.47	29.77	24.49	-71.71	837.44	-660.91	2,041.86	2,000.11	41.74	48.913	
7,800.00	7,554.11	7,625.32	7,500.00	29.86	24.52	-71.71	837.44	-660.91	2,042.57	2,000.68	41.90	48.754	
7,900.00	7,654.11	7,625.32	7,500.00	29.98	24.52	-71.71	837.44	-660.91	2,047.66	2,005.60	42.06	48.682	
8,000.00	7,754.11	7,625.32	7,500.00	30.10	24.52	-71.71	837.44	-660.91	2,057.61	2,015.38	42.23	48.724	
8,100.00	7,854.11	7,625.32	7,500.00	30.23	24.52	-71.71	837.44	-660.91	2,072.33	2,029.94	42.40	48.878	
8,200.00	7,954.11	7,625.32	7,500.00	30.35	24.52	-71.71	837.44	-660.91	2,091.74	2,049.18	42.57	49.140	
8,300.00	8,054.11	7,625.32	7,500.00	30.48	24.52	-71.71	837.44	-660.91	2,115.71	2,072.97	42.74	49.504	
8,338.89	8,093.00	7,625.32	7,500.00	30.53	24.52	-71.71	837.44	-660.91	2,126.22	2,083.42	42.80	49.673	



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	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	-29.13	0.00	29.13					
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-29.13	0.00	29.13	28.93	0.19	152.446		
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-29.13	0.00	29.13	28.48	0.64	45.466		
300.00	300.00	300.00	300.00	0.55	0.55	-180.00	-29.13	0.00	29.13	28.03	1.09	26.717		
400.00	400.00	400.00	400.00	0.77	0.77	-180.00	-29.13	0.00	29.13	27.59	1.54	18.917		
500.00	500.00	500.00	500.00	0.99	0.99	-180.00	-29.13	0.00	29.13	27.14	1.99	14.642		
600.00	600.00	600.00	600.00	1.22	1.22	-180.00	-29.13	0.00	29.13	26.69	2.44	11.943		
700.00	700.00	700.00	700.00	1.44	1.44	-180.00	-29.13	0.00	29.13	26.24	2.89	10.084		
800.00	800.00	800.00	800.00	1.67	1.67	-180.00	-29.13	0.00	29.13	25.79	3.34	8.726		
900.00	900.00	900.00	900.00	1.89	1.89	-180.00	-29.13	0.00	29.13	25.34	3.79	7.690		
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-180.00	-29.13	0.00	29.13	24.89	4.24	6.874		
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-180.00	-29.13	0.00	29.13	24.44	4.69	6.215		
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-180.00	-29.13	0.00	29.13	23.99	5.14	5.671		
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-180.00	-29.13	0.00	29.13	23.54	5.59	5.214		
1,400.00	1,400.00	1,400.00	1,400.00	3.02	3.02	-180.00	-29.13	0.00	29.13	23.09	6.03	4.826 CC, ES		
1,500.00	1,499.98	1,499.01	1,498.99	3.23	3.21	100.76	-30.73	0.60	31.03	24.58	6.44	4.815 SF		
1,600.00	1,599.84	1,597.74	1,597.58	3.44	3.39	105.48	-35.51	2.41	36.91	30.09	6.82	5.410		
1,700.00	1,699.45	1,695.91	1,695.38	3.66	3.57	110.62	-43.41	5.39	47.08	39.86	7.22	6.523		
1,800.00	1,798.70	1,793.24	1,792.01	3.89	3.77	114.86	-54.34	9.52	61.66	54.03	7.63	8.081		
1,900.00	1,897.47	1,889.50	1,887.12	4.15	3.99	117.95	-68.15	14.73	80.61	72.54	8.07	9.989		
2,000.00	1,995.62	1,984.42	1,980.37	4.44	4.24	120.11	-84.70	20.98	103.84	95.30	8.55	12.150		
2,100.00	2,093.06	2,077.79	2,071.48	4.78	4.53	121.56	-103.79	28.19	131.23	122.16	9.07	14.469		
2,200.00	2,189.64	2,169.41	2,160.19	5.17	4.86	122.52	-125.21	36.27	162.63	152.98	9.65	16.859		
2,300.00	2,285.27	2,259.09	2,246.27	5.61	5.23	123.12	-148.74	45.15	197.92	187.64	10.29	19.243		
2,400.00	2,379.82	2,346.68	2,329.55	6.12	5.63	123.45	-174.14	54.74	236.98	225.97	11.00	21.541		
2,500.00	2,473.17	2,432.05	2,409.87	6.70	6.08	123.58	-201.17	64.95	279.65	267.85	11.79	23.713		
2,600.00	2,565.21	2,515.08	2,487.14	7.36	6.56	123.54	-229.61	75.68	325.79	313.13	12.66	25.727		
2,647.85	2,608.76	2,553.96	2,523.01	7.70	6.81	123.48	-243.64	80.98	349.06	335.95	13.11	26.623		
2,700.00	2,656.04	2,595.83	2,561.41	8.09	7.08	123.81	-259.26	86.87	375.04	361.42	13.63	27.520		
2,800.00	2,746.71	2,680.53	2,638.63	8.85	7.66	124.24	-291.80	99.16	425.59	410.91	14.68	28.995		
2,900.00	2,837.37	2,766.76	2,717.22	9.63	8.28	124.57	-324.98	111.69	476.19	460.42	15.77	30.199		
3,000.00	2,928.03	2,852.98	2,795.81	10.43	8.91	124.84	-358.17	124.21	526.80	509.91	16.89	31.199		
3,100.00	3,018.69	2,939.20	2,874.40	11.24	9.55	125.06	-391.35	136.74	577.42	559.39	18.02	32.036		
3,200.00	3,109.36	3,025.43	2,952.99	12.06	10.20	125.25	-424.54	149.27	628.04	608.86	19.18	32.743		
3,300.00	3,200.02	3,111.65	3,031.58	12.89	10.86	125.41	-457.72	161.79	678.67	658.31	20.35	33.346		
3,400.00	3,290.68	3,197.87	3,110.17	13.73	11.53	125.55	-490.90	174.32	729.30	707.76	21.54	33.865		
3,500.00	3,381.34	3,284.10	3,188.77	14.57	12.20	125.66	-524.09	186.85	779.93	757.20	22.73	34.313		
3,600.00	3,472.01	3,370.32	3,267.36	15.42	12.88	125.77	-557.27	199.37	830.56	806.63	23.93	34.705		
3,700.00	3,562.67	3,456.55	3,345.95	16.27	13.57	125.86	-590.45	211.90	881.20	856.06	25.14	35.049		
3,800.00	3,653.33	3,542.77	3,424.54	17.12	14.25	125.94	-623.64	224.43	931.84	905.48	26.36	35.354		
3,900.00	3,743.99	3,628.99	3,503.13	17.98	14.94	126.02	-656.82	236.95	982.48	954.90	27.58	35.625		
4,000.00	3,834.66	3,715.22	3,581.72	18.84	15.63	126.09	-690.00	249.48	1,033.12	1,004.31	28.80	35.868		
4,100.00	3,925.32	3,801.44	3,660.31	19.71	16.32	126.15	-723.19	262.01	1,083.76	1,053.73	30.03	36.087		
4,200.00	4,015.98	3,887.66	3,738.90	20.57	17.02	126.20	-756.37	274.54	1,134.40	1,103.14	31.26	36.284		
4,300.00	4,106.64	3,973.89	3,817.49	21.44	17.72	126.25	-789.56	287.06	1,185.04	1,152.55	32.50	36.464		
4,400.00	4,197.31	4,060.11	3,896.08	22.31	18.42	126.30	-822.74	299.59	1,235.69	1,201.95	33.74	36.628		
4,444.04	4,237.24	4,098.09	3,930.69	22.69	18.73	126.32	-837.35	305.11	1,257.99	1,223.71	34.28	36.696		
4,500.00	4,288.20	4,146.50	3,974.82	23.12	19.12	126.84	-855.99	312.14	1,286.05	1,251.08	34.97	36.774		
4,600.00	4,380.35	4,233.80	4,054.39	23.77	19.83	127.62	-889.58	324.82	1,334.77	1,298.66	36.11	36.963		
4,700.00	4,473.81	4,322.00	4,134.78	24.37	20.55	128.23	-923.53	337.64	1,381.63	1,344.41	37.22	37.119		
4,800.00	4,568.44	4,411.01	4,215.91	24.92	21.27	128.68	-957.78	350.57	1,426.60	1,388.30	38.30	37.247		
4,900.00	4,664.15	4,500.71	4,297.67	25.42	22.01	128.99	-992.30	363.60	1,469.66	1,430.32	39.34	37.354		

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



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
ADAMS_TALON VIEW 7 PAD - P_TALON VIEW 11-9 - P_TALON VIEW 11-9 - PLAN #1 09-01-09 RHS												Offset Well Error:	0.00 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,760.81	4,590.99	4,379.95	25.87	22.75	129.17	-1,027.05	376.72	1,510.82	1,470.41	40.41	37.387	
5,100.00	4,858.31	4,681.74	4,462.67	26.27	23.49	129.24	-1,061.98	389.90	1,550.09	1,508.64	41.45	37.398	
5,200.00	4,956.52	4,772.85	4,545.72	26.61	24.24	129.19	-1,097.04	403.14	1,587.48	1,545.04	42.44	37.406	
5,300.00	5,055.33	4,864.22	4,629.00	26.90	24.99	129.05	-1,132.21	416.41	1,623.03	1,579.65	43.38	37.414	
5,400.00	5,154.61	4,955.73	4,712.41	27.15	25.74	128.81	-1,167.42	429.71	1,656.79	1,612.53	44.27	37.426	
5,500.00	5,254.25	5,047.26	4,795.84	27.34	26.49	128.49	-1,202.65	443.00	1,688.82	1,643.72	45.10	37.448	
5,600.00	5,354.12	5,138.71	4,879.19	27.49	27.24	128.08	-1,237.85	456.29	1,719.16	1,673.29	45.87	37.481	
5,691.89	5,446.00	5,222.58	4,955.64	27.58	27.93	-151.11	-1,270.12	468.48	1,745.63	1,699.11	46.52	37.527	
5,700.00	5,454.11	5,229.97	4,962.37	27.59	28.00	-151.19	-1,272.97	469.55	1,747.91	1,701.34	46.57	37.532	
5,800.00	5,554.11	5,321.12	5,045.45	27.68	28.75	-152.15	-1,308.04	482.79	1,776.30	1,729.06	47.24	37.601	
5,900.00	5,654.11	5,412.27	5,128.53	27.78	29.50	-153.08	-1,343.12	496.03	1,805.17	1,757.28	47.89	37.693	
6,000.00	5,754.11	5,503.41	5,211.61	27.88	30.25	-153.99	-1,378.20	509.28	1,834.52	1,785.99	48.53	37.805	
6,100.00	5,854.11	5,594.56	5,294.68	27.97	31.00	-154.87	-1,413.28	522.52	1,864.31	1,815.17	49.14	37.935	
6,200.00	5,954.11	5,685.71	5,377.76	28.07	31.75	-155.72	-1,448.36	535.76	1,894.53	1,844.78	49.75	38.083	
6,300.00	6,054.11	5,776.85	5,460.84	28.18	32.51	-156.55	-1,483.44	549.00	1,925.15	1,874.81	50.34	38.246	
6,400.00	6,154.11	5,868.00	5,543.92	28.28	33.26	-157.35	-1,518.52	562.24	1,956.15	1,905.24	50.91	38.423	
6,500.00	6,254.11	5,965.97	5,633.23	28.38	34.05	-158.19	-1,556.20	576.47	1,987.52	1,936.02	51.50	38.594	
6,600.00	6,354.11	6,166.96	5,819.51	28.49	35.23	-159.69	-1,626.70	603.08	2,016.44	1,964.15	52.29	38.563	
6,700.00	6,454.11	6,378.76	6,021.02	28.60	36.25	-160.92	-1,687.57	626.06	2,040.35	1,987.36	53.00	38.500	
6,800.00	6,554.11	6,599.78	6,235.82	28.70	37.11	-161.85	-1,736.07	644.37	2,058.73	2,005.10	53.63	38.387	
6,900.00	6,654.11	6,827.85	6,460.97	28.81	37.75	-162.48	-1,769.72	657.08	2,071.15	2,016.98	54.17	38.233	
7,000.00	6,754.11	7,060.33	6,692.67	28.92	38.15	-162.79	-1,786.68	663.48	2,077.31	2,022.69	54.62	38.032	
7,100.00	6,854.11	7,221.78	6,854.11	29.04	38.31	-162.82	-1,788.56	664.19	2,077.98	2,023.07	54.92	37.838	
7,200.00	6,954.11	7,321.78	6,954.11	29.15	38.38	-162.82	-1,788.56	664.19	2,077.98	2,022.84	55.14	37.685	
7,300.00	7,054.11	7,421.78	7,054.11	29.26	38.45	-162.82	-1,788.56	664.19	2,077.98	2,022.62	55.37	37.531	
7,400.00	7,154.11	7,521.78	7,154.11	29.38	38.53	-162.82	-1,788.56	664.19	2,077.98	2,022.39	55.60	37.377	
7,500.00	7,254.11	7,621.78	7,254.11	29.50	38.60	-162.82	-1,788.56	664.19	2,077.98	2,022.16	55.83	37.222	
7,600.00	7,354.11	7,721.78	7,354.11	29.62	38.68	-162.82	-1,788.56	664.19	2,077.98	2,021.92	56.06	37.067	
7,700.00	7,454.11	7,821.78	7,454.11	29.74	38.76	-162.82	-1,788.56	664.19	2,077.98	2,021.69	56.30	36.911	
7,800.00	7,554.11	7,921.78	7,554.11	29.86	38.84	-162.82	-1,788.56	664.19	2,077.98	2,021.45	56.54	36.755	
7,900.00	7,654.11	8,021.78	7,654.11	29.98	38.92	-162.82	-1,788.56	664.19	2,077.98	2,021.21	56.78	36.599	
8,000.00	7,754.11	8,121.78	7,754.11	30.10	39.00	-162.82	-1,788.56	664.19	2,077.98	2,020.96	57.02	36.442	
8,100.00	7,854.11	8,221.78	7,854.11	30.23	39.08	-162.82	-1,788.56	664.19	2,077.98	2,020.72	57.27	36.285	
8,200.00	7,954.11	8,321.78	7,954.11	30.35	39.16	-162.82	-1,788.56	664.19	2,077.98	2,020.47	57.52	36.128	
8,300.00	8,054.11	8,421.78	8,054.11	30.48	39.25	-162.82	-1,788.56	664.19	2,077.98	2,020.22	57.77	35.970	
8,338.89	8,093.00	8,460.68	8,093.00	30.53	39.28	-162.82	-1,788.56	664.19	2,077.98	2,020.12	57.87	35.909	





# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
ADAMS_TALON VIEW 7 PAD - P_TALON VIEW 12-9 - P_TALON VIEW 12-9 - PLAN #1 09-01-09 RHS												Offset Well Error:	0.00 ft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-43.70	0.00	43.70				
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-43.70	0.00	43.70	43.51	0.19	228.757	
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-43.70	0.00	43.70	43.06	0.64	68.226	
300.00	300.00	300.00	300.00	0.55	0.55	-180.00	-43.70	0.00	43.70	42.61	1.09	40.092	
400.00	400.00	400.00	400.00	0.77	0.77	-180.00	-43.70	0.00	43.70	42.16	1.54	28.386	
500.00	500.00	500.00	500.00	0.99	0.99	-180.00	-43.70	0.00	43.70	41.72	1.99	21.971	
600.00	600.00	600.00	600.00	1.22	1.22	-180.00	-43.70	0.00	43.70	41.27	2.44	17.921	
700.00	700.00	700.00	700.00	1.44	1.44	-180.00	-43.70	0.00	43.70	40.82	2.89	15.132	
800.00	800.00	800.00	800.00	1.67	1.67	-180.00	-43.70	0.00	43.70	40.37	3.34	13.094	
900.00	900.00	900.00	900.00	1.89	1.89	-180.00	-43.70	0.00	43.70	39.92	3.79	11.540	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-180.00	-43.70	0.00	43.70	39.47	4.24	10.315	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-180.00	-43.70	0.00	43.70	39.02	4.69	9.326	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-180.00	-43.70	0.00	43.70	38.57	5.14	8.510	
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-180.00	-43.70	0.00	43.70	38.12	5.59	7.825	
1,400.00	1,400.00	1,400.00	1,400.00	3.02	3.02	-180.00	-43.70	0.00	43.70	37.67	6.03	7.242 CC, ES	
1,500.00	1,499.98	1,498.50	1,498.48	3.23	3.21	101.59	-45.29	-0.59	45.64	39.20	6.44	7.084 SF	
1,600.00	1,599.84	1,596.48	1,596.33	3.44	3.38	108.70	-50.02	-2.34	52.03	45.21	6.82	7.629	
1,700.00	1,699.45	1,693.43	1,692.91	3.66	3.56	117.08	-57.78	-5.21	63.98	56.77	7.20	8.881	
1,800.00	1,798.70	1,788.85	1,787.66	3.89	3.75	124.40	-68.41	-9.15	82.15	74.56	7.59	10.821	
1,900.00	1,897.47	1,882.30	1,880.02	4.15	3.97	129.92	-81.69	-14.07	106.59	98.60	7.98	13.350	
2,000.00	1,995.62	1,973.36	1,969.54	4.44	4.21	133.85	-97.33	-19.86	137.04	128.65	8.39	16.341	
2,100.00	2,093.06	2,061.67	2,055.80	4.78	4.47	136.57	-115.04	-26.42	173.16	164.36	8.80	19.675	
2,200.00	2,189.64	2,146.92	2,138.49	5.17	4.76	138.45	-134.50	-33.63	214.65	205.41	9.23	23.246	
2,300.00	2,285.27	2,228.86	2,217.34	5.61	5.08	139.71	-155.36	-41.35	261.18	251.48	9.70	26.935	
2,400.00	2,379.82	2,307.27	2,292.18	6.12	5.42	140.53	-177.30	-49.48	312.47	302.28	10.19	30.668	
2,500.00	2,473.17	2,382.00	2,362.89	6.70	5.78	141.02	-200.00	-57.88	368.23	357.51	10.72	34.355	
2,600.00	2,565.21	2,452.96	2,429.41	7.36	6.16	141.24	-223.13	-66.45	428.19	416.90	11.29	37.932	
2,647.85	2,608.76	2,485.56	2,459.76	7.70	6.34	141.26	-234.28	-70.58	458.28	446.71	11.57	39.593	
2,700.00	2,656.04	2,520.31	2,491.97	8.09	6.55	141.75	-246.52	-75.11	491.79	479.86	11.92	41.248	
2,800.00	2,746.71	2,585.31	2,551.78	8.85	6.96	142.45	-270.39	-83.96	557.25	544.64	12.61	44.202	
2,900.00	2,837.37	2,654.65	2,615.04	9.63	7.42	142.97	-297.01	-93.81	624.00	610.67	13.32	46.832	
3,000.00	2,928.03	2,728.86	2,682.69	10.43	7.93	143.42	-325.62	-104.41	690.92	676.85	14.07	49.109	
3,100.00	3,018.69	2,803.07	2,750.33	11.24	8.45	143.78	-354.24	-115.01	757.86	743.03	14.83	51.108	
3,200.00	3,109.36	2,877.28	2,817.97	12.06	8.98	144.09	-382.86	-125.61	824.82	809.21	15.60	52.859	
3,300.00	3,200.02	2,951.48	2,885.62	12.89	9.52	144.35	-411.48	-136.21	891.78	875.39	16.39	54.409	
3,400.00	3,290.68	3,025.69	2,953.26	13.73	10.07	144.58	-440.09	-146.81	958.76	941.57	17.19	55.788	
3,500.00	3,381.34	3,099.90	3,020.91	14.57	10.63	144.77	-468.71	-157.41	1,025.74	1,007.75	17.99	57.021	
3,600.00	3,472.01	3,174.11	3,088.55	15.42	11.19	144.95	-497.33	-168.01	1,092.73	1,073.93	18.80	58.121	
3,700.00	3,562.67	3,248.32	3,156.19	16.27	11.75	145.10	-525.95	-178.61	1,159.72	1,140.10	19.62	59.113	
3,800.00	3,653.33	3,322.53	3,223.84	17.12	12.32	145.23	-554.56	-189.20	1,226.72	1,206.28	20.44	60.011	
3,900.00	3,743.99	3,396.74	3,291.48	17.98	12.89	145.35	-583.18	-199.80	1,293.72	1,272.45	21.27	60.826	
4,000.00	3,834.66	3,470.95	3,359.12	18.84	13.46	145.46	-611.80	-210.40	1,360.72	1,338.62	22.10	61.567	
4,100.00	3,925.32	3,545.16	3,426.77	19.71	14.04	145.56	-640.42	-221.00	1,427.73	1,404.79	22.94	62.245	
4,200.00	4,015.98	3,619.37	3,494.41	20.57	14.62	145.65	-669.04	-231.60	1,494.74	1,470.96	23.78	62.868	
4,300.00	4,106.64	3,693.58	3,562.06	21.44	15.20	145.74	-697.65	-242.20	1,561.75	1,537.13	24.62	63.441	
4,400.00	4,197.31	3,767.79	3,629.70	22.31	15.78	145.81	-726.27	-252.80	1,628.76	1,603.30	25.46	63.970	
4,444.04	4,237.24	3,800.47	3,659.49	22.69	16.04	145.84	-738.88	-257.47	1,658.27	1,632.44	25.83	64.191	
4,500.00	4,288.20	3,842.30	3,697.62	23.12	16.37	146.42	-755.01	-263.44	1,695.43	1,669.12	26.31	64.432	
4,600.00	4,380.35	3,918.55	3,767.12	23.77	16.97	147.32	-784.41	-274.33	1,760.13	1,733.01	27.12	64.911	
4,700.00	4,473.81	3,996.63	3,838.29	24.37	17.59	148.08	-814.52	-285.48	1,822.55	1,794.64	27.91	65.295	
4,800.00	4,568.44	4,076.44	3,911.05	24.92	18.22	148.71	-845.30	-296.88	1,882.64	1,853.95	28.70	65.601	
4,900.00	4,664.15	4,157.89	3,985.29	25.42	18.87	149.21	-876.71	-308.51	1,940.34	1,910.87	29.47	65.845	

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



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,760.81	4,240.88	4,060.94	25.87	19.52	149.62	-908.71	-320.37	1,995.59	1,965.37	30.22	66.040	
5,100.00	4,858.31	4,325.31	4,137.90	26.27	20.20	149.93	-941.27	-332.43	2,048.33	2,017.39	30.94	66.197	
5,200.00	4,956.52	4,411.08	4,216.08	26.61	20.88	150.16	-974.35	-344.68	2,098.54	2,066.90	31.64	66.318	
5,300.00	5,055.33	4,498.07	4,295.38	26.90	21.57	150.32	-1,007.90	-357.10	2,146.18	2,113.80	32.38	66.281	
5,400.00	5,154.61	4,586.19	4,375.70	27.15	22.28	150.40	-1,041.88	-369.69	2,191.22	2,158.14	33.08	66.236	
5,500.00	5,254.25	4,675.33	4,456.95	27.34	22.99	150.41	-1,076.25	-382.42	2,233.63	2,199.88	33.75	66.188	
5,600.00	5,354.12	4,765.38	4,539.03	27.49	23.71	150.36	-1,110.98	-395.28	2,273.40	2,239.03	34.37	66.143	
5,691.89	5,446.00	4,848.83	4,615.11	27.58	24.38	-128.49	-1,143.16	-407.20	2,307.61	2,272.70	34.91	66.107	
5,700.00	5,454.11	4,856.22	4,621.84	27.59	24.44	-128.53	-1,146.01	-408.25	2,310.53	2,275.57	34.95	66.101	
5,800.00	5,554.11	4,947.38	4,704.93	27.68	25.17	-129.04	-1,181.16	-421.27	2,346.63	2,311.09	35.55	66.018	
5,900.00	5,654.11	5,038.53	4,788.02	27.78	25.91	-129.53	-1,216.32	-434.29	2,382.90	2,346.77	36.13	65.952	
6,000.00	5,754.11	5,129.68	4,871.11	27.88	26.64	-130.01	-1,251.47	-447.31	2,419.32	2,382.61	36.71	65.904	
6,100.00	5,854.11	5,220.83	4,954.20	27.97	27.37	-130.48	-1,286.62	-460.33	2,455.89	2,418.61	37.28	65.871	
6,200.00	5,954.11	5,311.99	5,037.28	28.07	28.10	-130.93	-1,321.77	-473.35	2,492.61	2,454.76	37.85	65.852	
6,300.00	6,054.11	5,403.14	5,120.37	28.18	28.84	-131.37	-1,356.92	-486.37	2,529.46	2,491.04	38.41	65.846	
6,400.00	6,154.11	5,494.29	5,203.46	28.28	29.57	-131.80	-1,392.07	-499.39	2,566.43	2,527.46	38.97	65.851	
6,500.00	6,254.11	5,585.45	5,286.55	28.38	30.31	-132.21	-1,427.23	-512.41	2,603.54	2,564.01	39.53	65.867	
6,600.00	6,354.11	5,676.60	5,369.64	28.49	31.04	-132.62	-1,462.38	-525.42	2,640.76	2,600.68	40.08	65.892	
6,700.00	6,454.11	5,767.75	5,452.73	28.60	31.78	-133.01	-1,497.53	-538.44	2,678.09	2,637.47	40.62	65.926	
6,800.00	6,554.11	5,858.90	5,535.82	28.70	32.51	-133.39	-1,532.68	-551.46	2,715.54	2,674.37	41.16	65.968	
6,900.00	6,654.11	5,950.06	5,618.90	28.81	33.25	-133.77	-1,567.83	-564.48	2,753.09	2,711.39	41.70	66.017	
7,000.00	6,754.11	6,041.21	5,702.05	28.92	34.00	-134.15	-1,603.00	-577.50	2,790.61	2,748.61	42.24	66.069	
7,100.00	6,854.11	6,132.36	5,783.20	29.04	34.75	-134.53	-1,638.17	-590.52	2,828.13	2,786.13	42.78	66.121	
7,200.00	6,954.11	6,223.51	5,864.35	29.15	35.50	-134.91	-1,673.34	-603.54	2,865.65	2,823.65	43.32	66.173	
7,300.00	7,054.11	6,314.66	5,945.50	29.26	36.25	-135.29	-1,708.51	-616.56	2,903.17	2,861.17	43.86	66.225	
7,400.00	7,154.11	6,405.81	6,026.65	29.38	37.00	-135.67	-1,743.68	-629.58	2,940.69	2,898.69	44.40	66.277	
7,500.00	7,254.11	6,496.96	6,107.80	29.50	37.75	-136.05	-1,778.85	-642.60	2,978.21	2,936.21	44.94	66.329	
7,600.00	7,354.11	6,588.11	6,188.95	29.62	38.50	-136.43	-1,814.02	-655.62	3,015.73	2,973.73	45.48	66.381	
7,700.00	7,454.11	6,679.26	6,270.10	29.74	39.25	-136.81	-1,849.19	-668.64	3,053.25	2,991.25	46.02	66.433	
7,800.00	7,554.11	6,770.41	6,351.25	29.86	40.00	-137.19	-1,884.36	-681.66	3,090.77	3,028.77	46.56	66.485	
7,900.00	7,654.11	6,861.56	6,432.40	29.98	40.75	-137.57	-1,919.53	-694.68	3,128.29	3,066.29	47.10	66.537	
8,000.00	7,754.11	6,952.71	6,513.55	30.10	41.50	-137.95	-1,954.70	-707.70	3,165.81	3,103.81	47.64	66.589	
8,100.00	7,854.11	7,043.86	6,594.70	30.23	42.25	-138.33	-1,989.87	-720.72	3,203.33	3,141.33	48.18	66.641	
8,200.00	7,954.11	7,135.01	6,675.85	30.35	43.00	-138.71	-2,025.04	-733.74	3,240.85	3,178.85	48.72	66.693	
8,300.00	8,054.11	7,226.16	6,757.00	30.48	43.75	-139.09	-2,060.21	-746.76	3,278.37	3,216.37	49.26	66.745	
8,338.89	8,093.00	7,265.31	6,798.15	30.53	44.00	-139.47	-2,095.38	-759.78	3,315.89	3,253.89	49.80	66.797	





# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	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	-58.29	0.00	58.29					
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-58.29	0.00	58.29	58.10	0.19	305.113		
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-58.29	0.00	58.29	57.65	0.64	90.999		
300.00	300.00	300.00	300.00	0.55	0.55	-180.00	-58.29	0.00	58.29	57.20	1.09	53.474		
400.00	400.00	400.00	400.00	0.77	0.77	-180.00	-58.29	0.00	58.29	56.75	1.54	37.861		
500.00	500.00	500.00	500.00	0.99	0.99	-180.00	-58.29	0.00	58.29	56.30	1.99	29.305		
600.00	600.00	600.00	600.00	1.22	1.22	-180.00	-58.29	0.00	58.29	55.85	2.44	23.903		
700.00	700.00	700.00	700.00	1.44	1.44	-180.00	-58.29	0.00	58.29	55.40	2.89	20.183		
800.00	800.00	800.00	800.00	1.67	1.67	-180.00	-58.29	0.00	58.29	54.95	3.34	17.464		
900.00	900.00	900.00	900.00	1.89	1.89	-180.00	-58.29	0.00	58.29	54.50	3.79	15.391		
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-180.00	-58.29	0.00	58.29	54.06	4.24	13.758		
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-180.00	-58.29	0.00	58.29	53.61	4.69	12.439		
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-180.00	-58.29	0.00	58.29	53.16	5.14	11.350		
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-180.00	-58.29	0.00	58.29	52.71	5.59	10.436		
1,400.00	1,400.00	1,400.00	1,400.00	3.02	3.02	-180.00	-58.29	0.00	58.29	52.26	6.03	9.659 CC, ES		
1,500.00	1,499.98	1,497.94	1,497.92	3.23	3.21	100.29	-59.97	0.03	60.29	53.85	6.44	9.361 SF		
1,600.00	1,599.84	1,595.49	1,595.33	3.44	3.38	104.33	-64.96	0.11	66.52	59.71	6.82	9.760		
1,700.00	1,699.45	1,692.25	1,691.74	3.66	3.55	109.51	-73.18	0.25	77.48	70.28	7.20	10.758		
1,800.00	1,798.70	1,787.86	1,786.68	3.89	3.75	114.59	-84.50	0.43	93.58	85.97	7.60	12.308		
1,900.00	1,897.47	1,881.96	1,879.69	4.15	3.96	118.90	-98.73	0.67	114.93	106.91	8.02	14.330		
2,000.00	1,995.62	1,974.24	1,970.40	4.44	4.20	122.28	-115.64	0.95	141.48	133.02	8.46	16.722		
2,100.00	2,093.06	2,064.39	2,058.45	4.78	4.47	124.82	-134.98	1.27	173.04	164.11	8.93	19.371		
2,200.00	2,189.64	2,152.15	2,143.54	5.17	4.77	126.67	-156.45	1.62	209.40	199.96	9.45	22.171		
2,300.00	2,285.27	2,237.31	2,225.44	5.61	5.10	127.99	-179.77	2.01	250.35	240.35	10.00	25.029		
2,400.00	2,379.82	2,319.68	2,303.96	6.12	5.46	128.89	-204.63	2.42	295.66	285.05	10.61	27.866		
2,500.00	2,473.17	2,400.00	2,379.82	6.70	5.85	129.47	-231.04	2.86	345.12	333.84	11.27	30.609		
2,600.00	2,565.21	2,475.45	2,450.37	7.36	6.27	129.76	-257.77	3.30	398.50	386.50	12.00	33.210		
2,647.85	2,608.76	2,510.87	2,483.24	7.70	6.47	129.83	-270.96	3.52	425.37	413.01	12.37	34.394		
2,700.00	2,656.04	2,548.84	2,518.29	8.09	6.70	130.37	-285.54	3.76	455.35	442.55	12.80	35.578		
2,800.00	2,746.71	2,628.80	2,591.81	8.85	7.21	131.25	-316.98	4.28	513.52	499.85	13.67	37.566		
2,900.00	2,837.37	2,709.90	2,666.38	9.63	7.74	131.96	-348.87	4.81	571.77	557.20	14.57	39.244		
3,000.00	2,928.03	2,791.00	2,740.94	10.43	8.29	132.54	-380.77	5.34	630.06	614.57	15.49	40.668		
3,100.00	3,018.69	2,872.10	2,815.50	11.24	8.85	133.02	-412.66	5.86	688.39	671.95	16.44	41.885		
3,200.00	3,109.36	2,953.20	2,890.07	12.06	9.42	133.43	-444.56	6.39	746.75	729.35	17.39	42.935		
3,300.00	3,200.02	3,034.30	2,964.63	12.89	10.00	133.78	-476.45	6.92	805.12	786.76	18.36	43.846		
3,400.00	3,290.68	3,115.40	3,039.19	13.73	10.58	134.08	-508.35	7.45	863.52	844.18	19.34	44.641		
3,500.00	3,381.34	3,196.50	3,113.76	14.57	11.17	134.34	-540.24	7.97	921.93	901.59	20.33	45.340		
3,600.00	3,472.01	3,277.60	3,188.32	15.42	11.76	134.57	-572.14	8.50	980.35	959.02	21.33	45.956		
3,700.00	3,562.67	3,358.70	3,262.88	16.27	12.36	134.78	-604.04	9.03	1,038.78	1,016.44	22.34	46.505		
3,800.00	3,653.33	3,439.80	3,337.45	17.12	12.96	134.96	-635.93	9.56	1,097.22	1,073.87	23.35	46.995		
3,900.00	3,743.99	3,520.90	3,412.01	17.98	13.56	135.13	-667.83	10.08	1,155.66	1,131.30	24.36	47.436		
4,000.00	3,834.66	3,602.01	3,486.58	18.84	14.16	135.28	-699.72	10.61	1,214.11	1,188.73	25.38	47.833		
4,100.00	3,925.32	3,683.11	3,561.14	19.71	14.77	135.41	-731.62	11.14	1,272.56	1,246.16	26.41	48.194		
4,200.00	4,015.98	3,764.21	3,635.70	20.57	15.38	135.54	-763.51	11.67	1,331.02	1,303.59	27.43	48.522		
4,300.00	4,106.64	3,845.31	3,710.27	21.44	15.99	135.65	-795.41	12.20	1,389.49	1,361.03	28.46	48.822		
4,400.00	4,197.31	3,926.41	3,784.83	22.31	16.61	135.76	-827.30	12.72	1,447.95	1,418.46	29.49	49.098		
4,444.04	4,237.24	3,962.13	3,817.67	22.69	16.88	135.80	-841.35	12.96	1,473.70	1,443.76	29.95	49.212		
4,500.00	4,288.20	4,032.06	3,882.24	23.12	17.30	136.42	-868.19	13.40	1,505.78	1,475.22	30.57	49.264		
4,600.00	4,380.35	4,169.80	4,011.24	23.77	18.02	137.43	-916.44	14.20	1,559.26	1,527.68	31.58	49.378		
4,700.00	4,473.81	4,315.52	4,150.07	24.37	18.71	138.35	-960.66	14.93	1,607.46	1,574.90	32.56	49.370		
4,800.00	4,568.44	4,468.73	4,298.26	24.92	19.36	139.20	-999.48	15.57	1,649.99	1,616.50	33.49	49.273		
4,900.00	4,664.15	4,628.67	4,454.94	25.42	19.93	140.00	-1,031.50	16.10	1,686.49	1,652.15	34.34	49.112		

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



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,760.81	4,794.35	4,618.87	25.87	20.41	140.77	-1,055.39	16.50	1,716.65	1,681.55	35.10	48.909	
5,100.00	4,858.31	4,964.53	4,788.39	26.27	20.77	141.54	-1,070.03	16.74	1,740.20	1,704.39	35.81	48.595	
5,200.00	4,956.52	5,132.75	4,956.52	26.61	21.00	142.29	-1,074.59	16.81	1,756.97	1,720.58	36.39	48.287	
5,300.00	5,055.33	5,231.55	5,055.33	26.90	21.10	142.75	-1,074.59	16.81	1,769.21	1,732.41	36.80	48.078	
5,400.00	5,154.61	5,330.84	5,154.61	27.15	21.20	143.09	-1,074.59	16.81	1,778.74	1,741.57	37.16	47.863	
5,500.00	5,254.25	5,430.48	5,254.25	27.34	21.31	143.34	-1,074.59	16.81	1,785.50	1,748.02	37.48	47.636	
5,600.00	5,354.12	5,530.35	5,354.12	27.49	21.41	143.48	-1,074.59	16.81	1,789.48	1,751.72	37.76	47.397	
5,691.89	5,446.00	5,622.23	5,446.00	27.58	21.51	-135.23	-1,074.59	16.81	1,790.66	1,752.69	37.97	47.162	
5,700.00	5,454.11	5,630.33	5,454.11	27.59	21.52	-135.23	-1,074.59	16.81	1,790.66	1,752.67	37.99	47.138	
5,800.00	5,554.11	5,730.33	5,554.11	27.68	21.63	-135.23	-1,074.59	16.81	1,790.66	1,752.42	38.24	46.823	
5,900.00	5,654.11	5,830.33	5,654.11	27.78	21.74	-135.23	-1,074.59	16.81	1,790.66	1,752.16	38.50	46.509	
6,000.00	5,754.11	5,930.33	5,754.11	27.88	21.85	-135.23	-1,074.59	16.81	1,790.66	1,751.90	38.76	46.195	
6,100.00	5,854.11	6,030.33	5,854.11	27.97	21.96	-135.23	-1,074.59	16.81	1,790.66	1,751.63	39.03	45.881	
6,200.00	5,954.11	6,130.33	5,954.11	28.07	22.08	-135.23	-1,074.59	16.81	1,790.66	1,751.36	39.30	45.567	
6,300.00	6,054.11	6,230.33	6,054.11	28.18	22.19	-135.23	-1,074.59	16.81	1,790.66	1,751.09	39.57	45.254	
6,400.00	6,154.11	6,330.33	6,154.11	28.28	22.31	-135.23	-1,074.59	16.81	1,790.66	1,750.82	39.84	44.942	
6,500.00	6,254.11	6,430.33	6,254.11	28.38	22.43	-135.23	-1,074.59	16.81	1,790.66	1,750.54	40.12	44.630	
6,600.00	6,354.11	6,530.33	6,354.11	28.49	22.56	-135.23	-1,074.59	16.81	1,790.66	1,750.26	40.40	44.319	
6,700.00	6,454.11	6,630.33	6,454.11	28.60	22.68	-135.23	-1,074.59	16.81	1,790.66	1,749.97	40.69	44.009	
6,800.00	6,554.11	6,730.33	6,554.11	28.70	22.80	-135.23	-1,074.59	16.81	1,790.66	1,749.68	40.98	43.701	
6,900.00	6,654.11	6,830.33	6,654.11	28.81	22.93	-135.23	-1,074.59	16.81	1,790.66	1,749.39	41.27	43.393	
7,000.00	6,754.11	6,930.33	6,754.11	28.92	23.06	-135.23	-1,074.59	16.81	1,790.66	1,749.10	41.56	43.087	
7,100.00	6,854.11	7,030.33	6,854.11	29.04	23.19	-135.23	-1,074.59	16.81	1,790.66	1,748.81	41.85	42.783	
7,200.00	6,954.11	7,130.33	6,954.11	29.15	23.32	-135.23	-1,074.59	16.81	1,790.66	1,748.51	42.15	42.480	
7,300.00	7,054.11	7,230.33	7,054.11	29.26	23.45	-135.23	-1,074.59	16.81	1,790.66	1,748.21	42.45	42.178	
7,400.00	7,154.11	7,330.33	7,154.11	29.38	23.59	-135.23	-1,074.59	16.81	1,790.66	1,747.90	42.76	41.879	
7,500.00	7,254.11	7,430.33	7,254.11	29.50	23.72	-135.23	-1,074.59	16.81	1,790.66	1,747.60	43.06	41.581	
7,600.00	7,354.11	7,530.33	7,354.11	29.62	23.86	-135.23	-1,074.59	16.81	1,790.66	1,747.29	43.37	41.285	
7,700.00	7,454.11	7,630.33	7,454.11	29.74	24.00	-135.23	-1,074.59	16.81	1,790.66	1,746.98	43.68	40.990	
7,800.00	7,554.11	7,730.33	7,554.11	29.86	24.14	-135.23	-1,074.59	16.81	1,790.66	1,746.66	44.00	40.698	
7,900.00	7,654.11	7,830.33	7,654.11	29.98	24.28	-135.23	-1,074.59	16.81	1,790.66	1,746.35	44.31	40.408	
8,000.00	7,754.11	7,930.33	7,754.11	30.10	24.42	-135.23	-1,074.59	16.81	1,790.66	1,746.03	44.63	40.120	
8,100.00	7,854.11	8,030.33	7,854.11	30.23	24.56	-135.23	-1,074.59	16.81	1,790.66	1,745.71	44.95	39.833	
8,200.00	7,954.11	8,130.33	7,954.11	30.35	24.71	-135.23	-1,074.59	16.81	1,790.66	1,745.38	45.28	39.550	
8,300.00	8,054.11	8,230.33	8,054.11	30.48	24.85	-135.23	-1,074.59	16.81	1,790.66	1,745.06	45.60	39.268	
8,338.89	8,093.00	8,269.23	8,093.00	30.53	24.91	-135.23	-1,074.59	16.81	1,790.66	1,744.93	45.73	39.159	



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	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	0.00	14.58	0.00	14.58				
100.00	100.00	100.00	100.00	0.10	0.10	0.00	14.58	0.00	14.58	14.39	0.19	76.312	
200.00	200.00	200.00	200.00	0.32	0.32	0.00	14.58	0.00	14.58	13.94	0.64	22.760	
300.00	300.00	300.00	300.00	0.55	0.55	0.00	14.58	0.00	14.58	13.49	1.09	13.374	
400.00	400.00	400.00	400.00	0.77	0.77	0.00	14.58	0.00	14.58	13.04	1.54	9.469	
500.00	500.00	500.00	500.00	0.99	0.99	0.00	14.58	0.00	14.58	12.59	1.99	7.329	
600.00	600.00	600.00	600.00	1.22	1.22	0.00	14.58	0.00	14.58	12.14	2.44	5.978	
700.00	700.00	700.00	700.00	1.44	1.44	0.00	14.58	0.00	14.58	11.69	2.89	5.048	
800.00	800.00	800.00	800.00	1.67	1.67	0.00	14.58	0.00	14.58	11.24	3.34	4.368	
900.00	900.00	900.00	900.00	1.89	1.89	0.00	14.58	0.00	14.58	10.79	3.79	3.850	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	0.00	14.58	0.00	14.58	10.34	4.24	3.441	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	0.00	14.58	0.00	14.58	9.89	4.69	3.111	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	0.00	14.58	0.00	14.58	9.44	5.14	2.839	
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	0.00	14.58	0.00	14.58	8.99	5.59	2.610	
1,400.00	1,400.00	1,400.00	1,400.00	3.02	3.02	0.00	14.58	0.00	14.58	8.54	6.03	2.416 CC, ES, SF	
1,500.00	1,499.98	1,499.59	1,499.57	3.23	3.24	-83.58	15.94	1.07	15.69	9.22	6.47	2.425	
1,600.00	1,599.84	1,599.08	1,598.92	3.44	3.46	-88.91	20.01	4.28	19.15	12.25	6.90	2.776	
1,700.00	1,699.45	1,698.37	1,697.83	3.66	3.68	-94.42	26.76	9.62	25.13	17.79	7.34	3.424	
1,800.00	1,798.70	1,797.38	1,796.11	3.89	3.92	-98.76	36.18	17.05	33.72	25.91	7.80	4.321	
1,900.00	1,897.47	1,896.02	1,893.54	4.15	4.17	-101.82	48.20	26.54	44.89	36.59	8.30	5.407	
2,000.00	1,995.62	1,994.19	1,989.94	4.44	4.45	-103.91	62.77	38.05	58.61	49.76	8.85	6.620	
2,100.00	2,093.06	2,091.81	2,085.10	4.78	4.77	-105.32	79.82	51.51	74.82	65.35	9.47	7.901	
2,200.00	2,189.64	2,188.80	2,178.87	5.17	5.13	-106.26	99.28	66.87	93.47	83.31	10.16	9.196	
2,300.00	2,285.27	2,285.09	2,271.08	5.61	5.53	-106.89	121.04	84.05	114.52	103.57	10.95	10.458	
2,400.00	2,379.82	2,380.61	2,361.57	6.12	5.99	-107.28	145.03	102.98	137.93	126.09	11.84	11.652	
2,500.00	2,473.17	2,477.08	2,452.31	6.70	6.49	-107.93	170.74	123.28	163.17	150.34	12.83	12.722	
2,600.00	2,565.21	2,573.36	2,542.87	7.36	7.02	-109.27	196.42	143.56	189.58	175.69	13.89	13.647	
2,647.85	2,608.76	2,619.25	2,586.02	7.70	7.28	-110.07	208.66	153.22	202.69	188.26	14.43	14.051	
2,700.00	2,656.04	2,669.19	2,632.99	8.09	7.56	-111.19	221.98	163.73	217.18	202.15	15.03	14.451	
2,800.00	2,746.71	2,764.95	2,723.05	8.85	8.13	-112.97	247.52	183.90	245.16	228.95	16.21	15.124	
2,900.00	2,837.37	2,860.71	2,813.11	9.63	8.70	-114.38	273.06	204.06	273.30	255.88	17.42	15.690	
3,000.00	2,928.03	2,956.47	2,903.18	10.43	9.28	-115.52	298.60	224.23	301.58	282.93	18.65	16.170	
3,100.00	3,018.69	3,052.24	2,993.24	11.24	9.87	-116.47	324.14	244.39	329.94	310.04	19.90	16.580	
3,200.00	3,109.36	3,148.00	3,083.30	12.06	10.47	-117.28	349.69	264.56	358.38	337.21	21.16	16.934	
3,300.00	3,200.02	3,243.76	3,173.36	12.89	11.08	-117.96	375.23	284.72	386.87	364.43	22.44	17.241	
3,400.00	3,290.68	3,339.52	3,263.42	13.73	11.69	-118.55	400.77	304.89	415.40	391.68	23.72	17.509	
3,500.00	3,381.34	3,435.28	3,353.49	14.57	12.30	-119.06	426.31	325.05	443.97	418.95	25.02	17.746	
3,600.00	3,472.01	3,531.04	3,443.55	15.42	12.92	-119.51	451.85	345.22	472.57	446.25	26.32	17.955	
3,700.00	3,562.67	3,626.80	3,533.61	16.27	13.54	-119.91	477.40	365.38	501.19	473.56	27.63	18.142	
3,800.00	3,653.33	3,722.56	3,623.67	17.12	14.16	-120.27	502.94	385.55	529.83	500.89	28.94	18.309	
3,900.00	3,743.99	3,818.32	3,713.73	17.98	14.79	-120.59	528.48	405.71	558.49	528.23	30.26	18.459	
4,000.00	3,834.66	3,914.08	3,803.80	18.84	15.42	-120.88	554.02	425.88	587.16	555.59	31.58	18.595	
4,100.00	3,925.32	4,009.85	3,893.86	19.71	16.05	-121.14	579.56	446.04	615.85	582.95	32.90	18.718	
4,200.00	4,015.98	4,105.61	3,983.92	20.57	16.68	-121.38	605.10	466.21	644.55	610.32	34.23	18.831	
4,300.00	4,106.64	4,201.37	4,073.98	21.44	17.31	-121.60	630.65	486.37	673.25	637.69	35.56	18.934	
4,400.00	4,197.31	4,297.13	4,164.04	22.31	17.94	-121.80	656.19	506.53	701.97	665.07	36.89	19.028	
4,444.04	4,237.24	4,339.31	4,203.71	22.69	18.22	-121.88	667.44	515.42	714.61	677.14	37.48	19.067	
4,500.00	4,288.20	4,392.98	4,254.19	23.12	18.58	-122.23	681.75	526.72	730.41	692.20	38.21	19.117	
4,600.00	4,380.35	4,489.30	4,344.78	23.77	19.22	-122.62	707.45	547.00	757.24	717.79	39.44	19.198	
4,700.00	4,473.81	4,589.36	4,439.31	24.37	19.80	-122.85	733.19	567.32	782.09	741.48	40.61	19.261	
4,800.00	4,568.44	4,690.78	4,536.21	24.92	20.29	-123.07	756.65	585.85	804.62	763.00	41.62	19.333	
4,900.00	4,664.15	4,792.93	4,634.83	25.42	20.73	-123.30	777.54	602.34	824.80	782.26	42.54	19.390	

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



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,760.81	4,895.71	4,734.95	25.87	21.12	-123.53	795.77	616.73	842.59	799.22	43.37	19.430	
5,100.00	4,858.31	4,999.05	4,836.39	26.27	21.48	-123.76	811.24	628.94	857.95	813.85	44.10	19.455	
5,200.00	4,956.52	5,102.83	4,938.91	26.61	21.79	-124.00	823.87	638.92	870.86	826.13	44.73	19.469	
5,300.00	5,055.33	5,206.96	5,042.28	26.90	22.05	-124.24	833.61	646.61	881.31	836.05	45.26	19.471	
5,400.00	5,154.61	5,311.32	5,146.28	27.15	22.26	-124.48	840.41	651.97	889.27	843.58	45.69	19.463	
5,500.00	5,254.25	5,415.80	5,250.64	27.34	22.43	-124.73	844.23	654.99	894.74	848.72	46.02	19.444	
5,600.00	5,354.12	5,519.29	5,354.12	27.49	22.55	-124.97	845.14	655.71	897.73	851.48	46.25	19.412	
5,691.89	5,446.00	5,611.17	5,446.00	27.58	22.65	-43.82	845.14	655.71	898.57	852.15	46.42	19.356	
5,700.00	5,454.11	5,619.28	5,454.11	27.59	22.66	-43.82	845.14	655.71	898.57	852.13	46.44	19.349	
5,800.00	5,554.11	5,719.28	5,554.11	27.68	22.77	-43.82	845.14	655.71	898.57	851.92	46.66	19.259	
5,900.00	5,654.11	5,819.28	5,654.11	27.78	22.88	-43.82	845.14	655.71	898.57	851.69	46.88	19.168	
6,000.00	5,754.11	5,919.28	5,754.11	27.88	23.00	-43.82	845.14	655.71	898.57	851.47	47.10	19.076	
6,100.00	5,854.11	6,019.28	5,854.11	27.97	23.12	-43.82	845.14	655.71	898.57	851.24	47.33	18.984	
6,200.00	5,954.11	6,119.28	5,954.11	28.07	23.24	-43.82	845.14	655.71	898.57	851.01	47.56	18.892	
6,300.00	6,054.11	6,219.28	6,054.11	28.18	23.36	-43.82	845.14	655.71	898.57	850.78	47.80	18.799	
6,400.00	6,154.11	6,319.28	6,154.11	28.28	23.48	-43.82	845.14	655.71	898.57	850.54	48.04	18.706	
6,500.00	6,254.11	6,419.28	6,254.11	28.38	23.60	-43.82	845.14	655.71	898.57	850.30	48.28	18.613	
6,600.00	6,354.11	6,519.28	6,354.11	28.49	23.73	-43.82	845.14	655.71	898.57	850.05	48.52	18.520	
6,700.00	6,454.11	6,619.28	6,454.11	28.60	23.85	-43.82	845.14	655.71	898.57	849.81	48.77	18.426	
6,800.00	6,554.11	6,719.28	6,554.11	28.70	23.98	-43.82	845.14	655.71	898.57	849.56	49.02	18.333	
6,900.00	6,654.11	6,819.28	6,654.11	28.81	24.11	-43.82	845.14	655.71	898.57	849.31	49.27	18.239	
7,000.00	6,754.11	6,919.28	6,754.11	28.92	24.24	-43.82	845.14	655.71	898.57	849.05	49.52	18.145	
7,100.00	6,854.11	7,019.28	6,854.11	29.04	24.37	-43.82	845.14	655.71	898.57	848.79	49.78	18.051	
7,200.00	6,954.11	7,119.28	6,954.11	29.15	24.51	-43.82	845.14	655.71	898.57	848.53	50.04	17.957	
7,300.00	7,054.11	7,219.28	7,054.11	29.26	24.64	-43.82	845.14	655.71	898.57	848.27	50.30	17.863	
7,400.00	7,154.11	7,319.28	7,154.11	29.38	24.78	-43.82	845.14	655.71	898.57	848.01	50.57	17.769	
7,500.00	7,254.11	7,419.28	7,254.11	29.50	24.91	-43.82	845.14	655.71	898.57	847.74	50.84	17.676	
7,600.00	7,354.11	7,519.28	7,354.11	29.62	25.05	-43.82	845.14	655.71	898.57	847.47	51.11	17.582	
7,700.00	7,454.11	7,619.28	7,454.11	29.74	25.19	-43.82	845.14	655.71	898.57	847.19	51.38	17.489	
7,800.00	7,554.11	7,719.28	7,554.11	29.86	25.33	-43.82	845.14	655.71	898.57	846.92	51.66	17.395	
7,900.00	7,654.11	7,819.28	7,654.11	29.98	25.48	-43.82	845.14	655.71	898.57	846.64	51.93	17.302	
8,000.00	7,754.11	7,919.28	7,754.11	30.10	25.62	-43.82	845.14	655.71	898.57	846.36	52.21	17.209	
8,100.00	7,854.11	8,019.28	7,854.11	30.23	25.76	-43.82	845.14	655.71	898.57	846.08	52.50	17.116	
8,200.00	7,954.11	8,119.28	7,954.11	30.35	25.91	-43.82	845.14	655.71	898.57	845.79	52.78	17.024	
8,300.00	8,054.11	8,219.28	8,054.11	30.48	26.06	-43.82	845.14	655.71	898.57	845.50	53.07	16.932	
8,338.89	8,093.00	8,258.17	8,093.00	30.53	26.11	-43.82	845.14	655.71	898.57	845.39	53.18	16.896	



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	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	0.00	29.15	0.00	29.15				
100.00	100.00	100.00	100.00	0.10	0.10	0.00	29.15	0.00	29.15	28.96	0.19	152.557	
200.00	200.00	200.00	200.00	0.32	0.32	0.00	29.15	0.00	29.15	28.51	0.64	45.499	
300.00	300.00	300.00	300.00	0.55	0.55	0.00	29.15	0.00	29.15	28.06	1.09	26.737	
400.00	400.00	400.00	400.00	0.77	0.77	0.00	29.15	0.00	29.15	27.61	1.54	18.930	
500.00	500.00	500.00	500.00	0.99	0.99	0.00	29.15	0.00	29.15	27.16	1.99	14.652	
600.00	600.00	600.00	600.00	1.22	1.22	0.00	29.15	0.00	29.15	26.71	2.44	11.951	
700.00	700.00	700.00	700.00	1.44	1.44	0.00	29.15	0.00	29.15	26.26	2.89	10.091	
800.00	800.00	800.00	800.00	1.67	1.67	0.00	29.15	0.00	29.15	25.81	3.34	8.732	
900.00	900.00	900.00	900.00	1.89	1.89	0.00	29.15	0.00	29.15	25.36	3.79	7.696	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	0.00	29.15	0.00	29.15	24.91	4.24	6.879	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	0.00	29.15	0.00	29.15	24.46	4.69	6.219	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	0.00	29.15	0.00	29.15	24.01	5.14	5.675	
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	0.00	29.15	0.00	29.15	23.56	5.59	5.218	
1,400.00	1,400.00	1,400.00	1,400.00	3.02	3.02	0.00	29.15	0.00	29.15	23.11	6.03	4.830	
1,500.00	1,499.98	1,500.51	1,500.49	3.23	3.22	-87.68	28.06	-1.39	27.97	21.52	6.45	4.336	
1,584.81	1,584.68	1,585.25	1,585.12	3.41	3.38	-104.64	25.46	-4.72	26.76	19.97	6.78	3.944 CC, ES	
1,600.00	1,599.84	1,600.34	1,600.18	3.44	3.41	-108.83	24.84	-5.52	26.83	19.99	6.84	3.921 SF	
1,700.00	1,699.45	1,698.81	1,698.26	3.66	3.60	-139.22	19.57	-12.28	32.69	25.47	7.22	4.529	
1,800.00	1,798.70	1,795.28	1,794.03	3.89	3.81	-161.39	12.40	-21.47	49.92	42.35	7.57	6.593	
1,900.00	1,897.47	1,889.19	1,886.82	4.15	4.04	-173.32	3.52	-32.86	76.68	68.75	7.92	9.679	
2,000.00	1,995.62	1,980.03	1,976.07	4.44	4.29	-179.85	-6.84	-46.14	110.99	102.72	8.27	13.419	
2,100.00	2,093.06	2,067.34	2,061.33	4.78	4.56	176.24	-18.44	-61.01	151.83	143.21	8.62	17.623	
2,200.00	2,189.64	2,150.79	2,142.22	5.17	4.86	173.70	-31.01	-77.13	198.61	189.65	8.95	22.179	
2,300.00	2,285.27	2,230.08	2,218.52	5.61	5.18	171.93	-44.30	-94.17	250.87	241.58	9.29	27.013	
2,400.00	2,379.82	2,308.56	2,293.49	6.12	5.53	170.58	-58.56	-112.46	308.00	298.38	9.62	32.009	
2,500.00	2,473.17	2,388.29	2,369.57	6.70	5.92	169.59	-73.23	-131.26	368.26	358.29	9.97	36.952	
2,600.00	2,565.21	2,465.93	2,443.66	7.36	6.31	168.87	-87.50	-149.57	431.24	420.93	10.31	41.826	
2,647.85	2,608.76	2,502.31	2,478.37	7.70	6.49	168.60	-94.19	-158.14	462.31	451.84	10.47	44.141	
2,700.00	2,656.04	2,541.69	2,515.95	8.09	6.70	168.50	-101.43	-167.43	496.50	485.77	10.73	46.272	
2,800.00	2,746.71	2,617.19	2,587.99	8.85	7.10	168.34	-115.31	-185.23	562.06	550.83	11.23	50.056	
2,900.00	2,837.37	2,692.69	2,660.04	9.63	7.50	168.21	-129.20	-203.03	627.62	615.88	11.74	53.460	
3,000.00	2,928.03	2,768.19	2,732.09	10.43	7.92	168.11	-143.08	-220.83	693.19	680.92	12.26	56.525	
3,100.00	3,018.69	2,843.69	2,804.14	11.24	8.34	168.03	-156.96	-238.63	758.75	745.96	12.80	59.299	
3,200.00	3,109.36	2,919.20	2,876.19	12.06	8.77	167.96	-170.85	-256.43	824.32	810.98	13.34	61.816	
3,300.00	3,200.02	2,994.70	2,948.24	12.89	9.20	167.90	-184.73	-274.23	889.88	876.00	13.88	64.104	
3,400.00	3,290.68	3,070.20	3,020.28	13.73	9.64	167.85	-198.61	-292.03	955.45	941.01	14.44	66.185	
3,500.00	3,381.34	3,145.70	3,092.33	14.57	10.08	167.80	-212.50	-309.84	1,021.02	1,006.02	15.00	68.089	
3,600.00	3,472.01	3,221.21	3,164.38	15.42	10.52	167.76	-226.38	-327.64	1,086.59	1,071.03	15.56	69.835	
3,700.00	3,562.67	3,296.71	3,236.43	16.27	10.96	167.73	-240.26	-345.44	1,152.15	1,136.03	16.13	71.440	
3,800.00	3,653.33	3,372.21	3,308.48	17.12	11.41	167.70	-254.15	-363.24	1,217.72	1,201.02	16.70	72.915	
3,900.00	3,743.99	3,447.71	3,380.52	17.98	11.86	167.67	-268.03	-381.04	1,283.29	1,266.01	17.28	74.279	
4,000.00	3,834.66	3,523.21	3,452.57	18.84	12.31	167.64	-281.91	-398.84	1,348.86	1,331.00	17.86	75.542	
4,100.00	3,925.32	3,598.72	3,524.62	19.71	12.76	167.62	-295.80	-416.64	1,414.43	1,395.99	18.44	76.713	
4,200.00	4,015.98	3,674.22	3,596.67	20.57	13.22	167.60	-309.68	-434.44	1,480.00	1,460.97	19.02	77.801	
4,300.00	4,106.64	3,749.72	3,668.72	21.44	13.67	167.58	-323.56	-452.25	1,545.57	1,525.96	19.61	78.814	
4,400.00	4,197.31	3,825.22	3,740.77	22.31	14.13	167.56	-337.45	-470.05	1,611.13	1,590.94	20.20	79.760	
4,444.04	4,237.24	3,858.48	3,772.50	22.69	14.33	167.56	-343.56	-477.89	1,640.01	1,619.55	20.46	80.157	
4,500.00	4,288.20	3,901.07	3,813.14	23.12	14.59	167.75	-351.39	-487.93	1,676.30	1,655.41	20.89	80.245	
4,600.00	4,380.35	3,978.88	3,887.39	23.77	15.06	168.04	-365.70	-506.28	1,739.09	1,717.47	21.62	80.431	
4,700.00	4,473.81	4,058.78	3,963.63	24.37	15.55	168.27	-380.39	-525.11	1,799.20	1,776.86	22.34	80.540	
4,800.00	4,568.44	4,140.66	4,041.77	24.92	16.05	168.46	-395.45	-544.42	1,856.54	1,833.50	23.04	80.587	

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



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
ADAMS_TALON VIEW 7 PAD - P_TALON VIEW 5-9 - P_TALON VIEW 5-9 - PLAN #1 09-01-09 RHS												Offset Well Error:	0.00 ft
Survey Program: 0-MWD													
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	4,664.15	4,290.03	4,184.84	25.42	16.79	168.52	-421.81	-578.22	1,910.39	1,886.53	23.87	80.043	
5,000.00	4,760.81	4,538.50	4,427.03	25.87	17.72	168.56	-455.76	-621.75	1,955.44	1,930.58	24.86	78.656	
5,100.00	4,858.31	4,810.26	4,696.28	26.27	18.46	168.72	-477.97	-650.22	1,989.43	1,963.64	25.80	77.116	
5,200.00	4,956.52	5,070.80	4,956.52	26.61	18.87	168.99	-484.46	-658.55	2,011.31	1,984.73	26.58	75.671	
5,300.00	5,055.33	5,169.61	5,055.33	26.90	18.98	169.13	-484.46	-658.55	2,026.40	1,999.38	27.03	74.982	
5,400.00	5,154.61	5,268.90	5,154.61	27.15	19.10	169.24	-484.46	-658.55	2,038.10	2,010.67	27.43	74.307	
5,500.00	5,254.25	5,368.53	5,254.25	27.34	19.22	169.32	-484.46	-658.55	2,046.39	2,018.60	27.79	73.643	
5,600.00	5,354.12	5,468.41	5,354.12	27.49	19.34	169.36	-484.46	-658.55	2,051.25	2,023.15	28.10	72.988	
5,691.89	5,446.00	5,560.29	5,446.00	27.58	19.45	-109.38	-484.46	-658.55	2,052.70	2,024.35	28.36	72.391	
5,700.00	5,454.11	5,568.39	5,454.11	27.59	19.46	-109.38	-484.46	-658.55	2,052.70	2,024.32	28.38	72.323	
5,800.00	5,554.11	5,668.39	5,554.11	27.68	19.59	-109.38	-484.46	-658.55	2,052.70	2,023.98	28.72	71.478	
5,900.00	5,654.11	5,768.39	5,654.11	27.78	19.71	-109.38	-484.46	-658.55	2,052.70	2,023.64	29.06	70.644	
6,000.00	5,754.11	5,868.39	5,754.11	27.88	19.84	-109.38	-484.46	-658.55	2,052.70	2,023.30	29.40	69.823	
6,100.00	5,854.11	5,968.39	5,854.11	27.97	19.97	-109.38	-484.46	-658.55	2,052.70	2,022.96	29.74	69.013	
6,200.00	5,954.11	6,068.39	5,954.11	28.07	20.11	-109.38	-484.46	-658.55	2,052.70	2,022.61	30.09	68.216	
6,300.00	6,054.11	6,168.39	6,054.11	28.18	20.24	-109.38	-484.46	-658.55	2,052.70	2,022.26	30.44	67.432	
6,400.00	6,154.11	6,268.39	6,154.11	28.28	20.37	-109.38	-484.46	-658.55	2,052.70	2,021.91	30.79	66.660	
6,500.00	6,254.11	6,368.39	6,254.11	28.38	20.51	-109.38	-484.46	-658.55	2,052.70	2,021.55	31.15	65.899	
6,600.00	6,354.11	6,468.39	6,354.11	28.49	20.65	-109.38	-484.46	-658.55	2,052.70	2,021.19	31.51	65.152	
6,700.00	6,454.11	6,568.39	6,454.11	28.60	20.79	-109.38	-484.46	-658.55	2,052.70	2,020.83	31.87	64.416	
6,800.00	6,554.11	6,668.39	6,554.11	28.70	20.93	-109.38	-484.46	-658.55	2,052.70	2,020.47	32.23	63.692	
6,900.00	6,654.11	6,768.39	6,654.11	28.81	21.07	-109.38	-484.46	-658.55	2,052.70	2,020.11	32.59	62.980	
7,000.00	6,754.11	6,868.39	6,754.11	28.92	21.22	-109.38	-484.46	-658.55	2,052.70	2,019.74	32.96	62.280	
7,100.00	6,854.11	6,968.39	6,854.11	29.04	21.36	-109.38	-484.46	-658.55	2,052.70	2,019.37	33.33	61.591	
7,200.00	6,954.11	7,068.39	6,954.11	29.15	21.51	-109.38	-484.46	-658.55	2,052.70	2,019.00	33.70	60.915	
7,300.00	7,054.11	7,168.39	7,054.11	29.26	21.66	-109.38	-484.46	-658.55	2,052.70	2,018.63	34.07	60.249	
7,400.00	7,154.11	7,268.39	7,154.11	29.38	21.81	-109.38	-484.46	-658.55	2,052.70	2,018.26	34.44	59.595	
7,500.00	7,254.11	7,368.39	7,254.11	29.50	21.96	-109.38	-484.46	-658.55	2,052.70	2,017.88	34.82	58.951	
7,600.00	7,354.11	7,468.39	7,354.11	29.62	22.11	-109.38	-484.46	-658.55	2,052.70	2,017.50	35.20	58.319	
7,700.00	7,454.11	7,568.39	7,454.11	29.74	22.27	-109.38	-484.46	-658.55	2,052.70	2,017.12	35.58	57.697	
7,800.00	7,554.11	7,668.39	7,554.11	29.86	22.42	-109.38	-484.46	-658.55	2,052.70	2,016.74	35.96	57.086	
7,900.00	7,654.11	7,768.39	7,654.11	29.98	22.58	-109.38	-484.46	-658.55	2,052.70	2,016.36	36.34	56.485	
8,000.00	7,754.11	7,868.39	7,754.11	30.10	22.73	-109.38	-484.46	-658.55	2,052.70	2,015.98	36.72	55.895	
8,100.00	7,854.11	7,968.39	7,854.11	30.23	22.89	-109.38	-484.46	-658.55	2,052.70	2,015.59	37.11	55.314	
8,200.00	7,954.11	8,068.39	7,954.11	30.35	23.05	-109.38	-484.46	-658.55	2,052.70	2,015.20	37.50	54.744	
8,300.00	8,054.11	8,168.39	8,054.11	30.48	23.21	-109.38	-484.46	-658.55	2,052.70	2,014.82	37.88	54.183	
8,324.44	8,078.55	8,192.83	8,078.55	30.51	23.25	-109.38	-484.46	-658.55	2,052.70	2,014.72	37.98	54.047	
8,338.89	8,093.00	8,203.29	8,089.00	30.53	23.27	-109.38	-484.46	-658.55	2,052.70	2,014.68	38.03	53.978	





# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	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	-14.57	0.00	14.57				
100.00	100.00	100.00	100.00	0.10	0.10	-180.00	-14.57	0.00	14.57	14.38	0.19	76.245	
200.00	200.00	200.00	200.00	0.32	0.32	-180.00	-14.57	0.00	14.57	13.93	0.64	22.740	
300.00	300.00	300.00	300.00	0.55	0.55	-180.00	-14.57	0.00	14.57	13.48	1.09	13.363	
400.00	400.00	400.00	400.00	0.77	0.77	-180.00	-14.57	0.00	14.57	13.03	1.54	9.461	
500.00	500.00	500.00	500.00	0.99	0.99	-180.00	-14.57	0.00	14.57	12.58	1.99	7.323	
600.00	600.00	600.00	600.00	1.22	1.22	-180.00	-14.57	0.00	14.57	12.13	2.44	5.973	
700.00	700.00	700.00	700.00	1.44	1.44	-180.00	-14.57	0.00	14.57	11.68	2.89	5.043	
800.00	800.00	800.00	800.00	1.67	1.67	-180.00	-14.57	0.00	14.57	11.23	3.34	4.364	
900.00	900.00	900.00	900.00	1.89	1.89	-180.00	-14.57	0.00	14.57	10.78	3.79	3.846	
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	-180.00	-14.57	0.00	14.57	10.33	4.24	3.438	
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	-180.00	-14.57	0.00	14.57	9.88	4.69	3.108	
1,200.00	1,200.00	1,200.00	1,200.00	2.57	2.57	-180.00	-14.57	0.00	14.57	9.43	5.14	2.836	
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	-180.00	-14.57	0.00	14.57	8.98	5.59	2.608	
1,400.00	1,400.00	1,400.00	1,400.00	3.02	3.02	-180.00	-14.57	0.00	14.57	8.53	6.03	2.414 CC, ES, SF	
1,500.00	1,499.98	1,499.69	1,499.67	3.23	3.22	99.81	-15.56	1.42	15.83	9.38	6.45	2.454	
1,600.00	1,599.84	1,599.29	1,599.12	3.44	3.41	102.14	-18.54	5.68	19.65	12.81	6.85	2.871	
1,700.00	1,699.45	1,698.68	1,698.14	3.66	3.61	104.48	-23.48	12.75	26.05	18.79	7.26	3.589	
1,800.00	1,798.70	1,797.77	1,796.50	3.89	3.82	106.27	-30.37	22.59	35.04	27.33	7.70	4.548	
1,900.00	1,897.47	1,896.48	1,894.00	4.15	4.07	107.51	-39.16	35.16	46.58	38.39	8.19	5.687	
2,000.00	1,995.62	1,994.70	1,990.44	4.44	4.34	108.33	-49.82	50.40	60.67	51.93	8.74	6.944	
2,100.00	2,093.06	2,092.35	2,085.63	4.78	4.66	108.84	-62.29	68.22	77.25	67.90	9.36	8.257	
2,200.00	2,189.64	2,189.35	2,179.40	5.17	5.03	109.14	-76.51	88.55	96.30	86.24	10.06	9.572	
2,300.00	2,285.27	2,286.55	2,272.65	5.61	5.45	109.58	-92.23	111.02	117.54	106.68	10.86	10.824	
2,400.00	2,379.82	2,383.88	2,365.95	6.12	5.90	111.02	-108.11	133.72	140.09	128.35	11.74	11.934	
2,500.00	2,473.17	2,480.74	2,458.81	6.70	6.38	113.06	-123.91	156.31	164.07	151.39	12.69	12.934	
2,600.00	2,565.21	2,577.02	2,551.10	7.36	6.86	115.42	-139.61	178.77	189.72	176.04	13.69	13.862	
2,647.85	2,608.76	2,622.84	2,595.03	7.70	7.10	116.61	-147.09	189.46	202.66	188.47	14.19	14.285	
2,700.00	2,656.04	2,672.69	2,642.82	8.09	7.36	118.07	-155.22	201.08	217.07	202.32	14.76	14.711	
2,800.00	2,746.71	2,768.29	2,734.46	8.85	7.87	120.39	-170.82	223.38	245.02	229.16	15.86	15.449	
2,900.00	2,837.37	2,863.88	2,826.10	9.63	8.39	122.24	-186.41	245.67	273.26	256.28	16.98	16.094	
3,000.00	2,928.03	2,959.47	2,917.74	10.43	8.91	123.75	-202.01	267.96	301.71	283.60	18.11	16.660	
3,100.00	3,018.69	3,055.06	3,009.37	11.24	9.44	125.00	-217.60	290.26	330.33	311.08	19.25	17.159	
3,200.00	3,109.36	3,150.65	3,101.01	12.06	9.98	126.04	-233.19	312.55	359.07	338.67	20.40	17.601	
3,300.00	3,200.02	3,246.24	3,192.65	12.89	10.52	126.94	-248.79	334.85	387.90	366.34	21.56	17.995	
3,400.00	3,290.68	3,341.83	3,284.29	13.73	11.06	127.70	-264.38	357.14	416.80	394.09	22.72	18.348	
3,500.00	3,381.34	3,437.42	3,375.92	14.57	11.61	128.37	-279.98	379.43	445.77	421.89	23.88	18.665	
3,600.00	3,472.01	3,533.02	3,467.56	15.42	12.16	128.96	-295.57	401.73	474.78	449.73	25.05	18.951	
3,700.00	3,562.67	3,628.61	3,559.20	16.27	12.71	129.48	-311.17	424.02	503.84	477.61	26.23	19.211	
3,800.00	3,653.33	3,724.20	3,650.84	17.12	13.27	129.95	-326.76	446.32	532.93	505.53	27.40	19.448	
3,900.00	3,743.99	3,819.79	3,742.48	17.98	13.83	130.36	-342.35	468.61	562.05	533.46	28.58	19.665	
4,000.00	3,834.66	3,915.38	3,834.11	18.84	14.39	130.74	-357.95	490.90	591.19	561.43	29.76	19.864	
4,100.00	3,925.32	4,010.97	3,925.75	19.71	14.95	131.08	-373.54	513.20	620.35	589.41	30.94	20.047	
4,200.00	4,015.98	4,106.56	4,017.39	20.57	15.51	131.39	-389.14	535.49	649.53	617.41	32.13	20.217	
4,300.00	4,106.64	4,202.15	4,109.03	21.44	16.07	131.67	-404.73	557.79	678.73	645.42	33.31	20.374	
4,400.00	4,197.31	4,297.45	4,200.61	22.31	16.58	132.00	-419.84	579.39	707.96	673.52	34.43	20.561	
4,444.04	4,237.24	4,339.29	4,241.05	22.69	16.75	132.21	-425.95	588.12	720.85	685.99	34.86	20.677	
4,500.00	4,288.20	4,392.44	4,292.67	23.12	16.96	132.75	-433.23	598.52	736.92	701.56	35.36	20.839	
4,600.00	4,380.35	4,487.69	4,385.71	23.77	17.31	133.70	-444.89	615.19	763.97	727.86	36.12	21.151	
4,700.00	4,473.81	4,583.21	4,479.65	24.37	17.62	134.63	-454.80	629.36	788.88	752.09	36.79	21.444	
4,800.00	4,568.44	4,678.92	4,574.31	24.92	17.90	135.53	-462.92	640.97	811.62	774.25	37.37	21.717	
4,900.00	4,664.15	4,774.75	4,669.50	25.42	18.13	136.42	-469.23	649.99	832.20	794.31	37.89	21.963	

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



# Weatherford International Ltd.

## Anticollision Report



<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

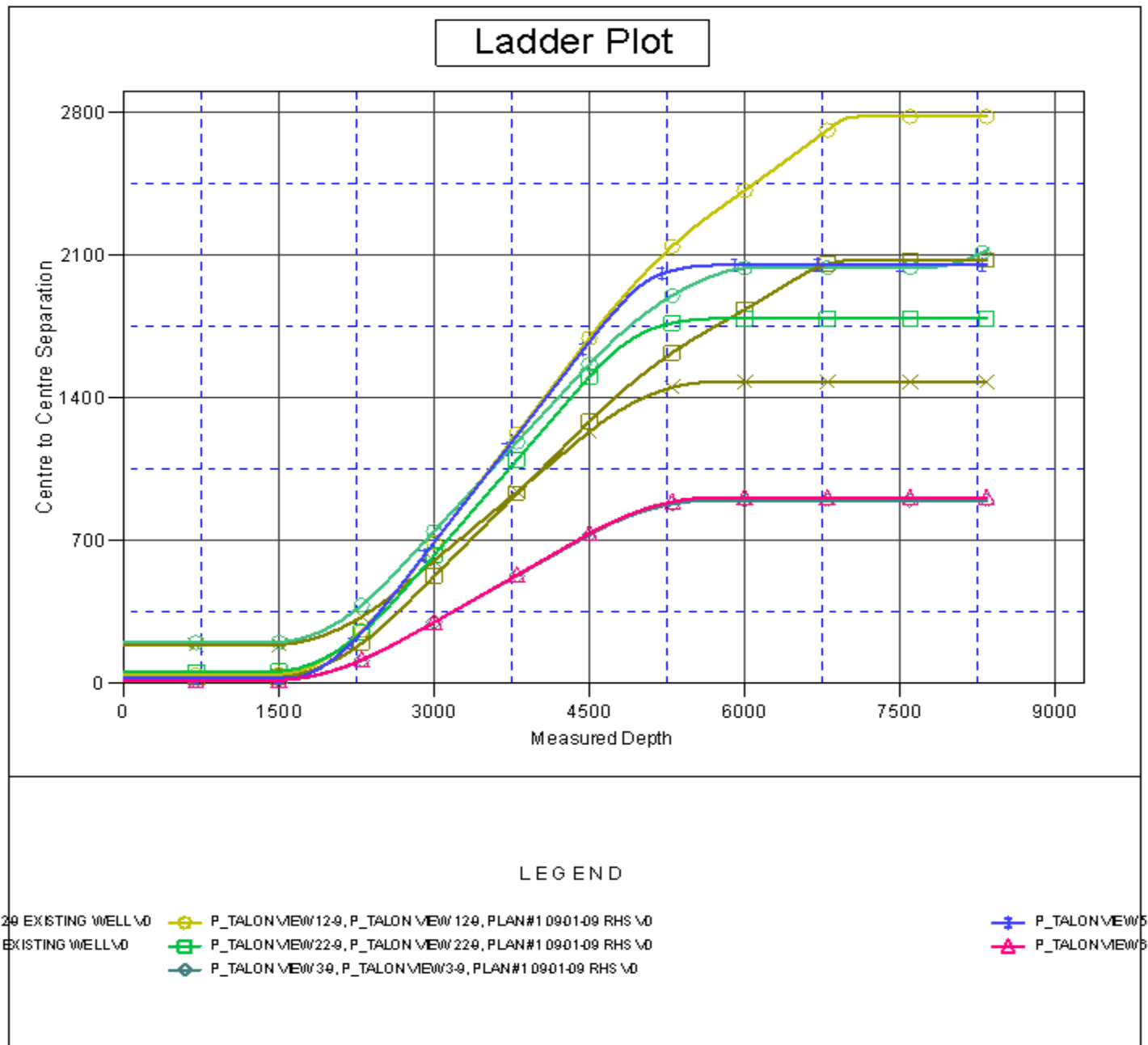
Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,760.81	4,870.61	4,765.03	25.87	18.33	137.30	-473.71	656.40	850.60	812.29	38.31	22.201	
5,100.00	4,858.31	4,966.40	4,860.71	26.27	18.49	138.18	-476.36	660.18	866.84	828.20	38.64	22.433	
5,200.00	4,956.52	5,062.23	4,956.52	26.61	18.61	139.07	-477.17	661.35	880.92	842.04	38.88	22.659	
5,300.00	5,055.33	5,161.03	5,055.33	26.90	18.73	139.86	-477.17	661.35	892.66	853.59	39.07	22.850	
5,400.00	5,154.61	5,260.32	5,154.61	27.15	18.85	140.47	-477.17	661.35	901.82	862.58	39.25	22.977	
5,500.00	5,254.25	5,359.96	5,254.25	27.34	18.97	140.89	-477.17	661.35	908.36	868.93	39.42	23.041	
5,600.00	5,354.12	5,459.83	5,354.12	27.49	19.10	141.13	-477.17	661.35	912.21	872.61	39.59	23.039	
5,691.89	5,446.00	5,551.71	5,446.00	27.58	19.22	-137.55	-477.17	661.35	913.36	873.61	39.75	22.980	
5,700.00	5,454.11	5,559.81	5,454.11	27.59	19.23	-137.55	-477.17	661.35	913.36	873.59	39.77	22.969	
5,800.00	5,554.11	5,659.81	5,554.11	27.68	19.35	-137.55	-477.17	661.35	913.36	873.34	40.01	22.826	
5,900.00	5,654.11	5,759.81	5,654.11	27.78	19.48	-137.55	-477.17	661.35	913.36	873.09	40.27	22.682	
6,000.00	5,754.11	5,859.81	5,754.11	27.88	19.62	-137.55	-477.17	661.35	913.36	872.83	40.52	22.539	
6,100.00	5,854.11	5,959.81	5,854.11	27.97	19.75	-137.55	-477.17	661.35	913.36	872.57	40.78	22.396	
6,200.00	5,954.11	6,059.81	5,954.11	28.07	19.89	-137.55	-477.17	661.35	913.36	872.31	41.05	22.252	
6,300.00	6,054.11	6,159.81	6,054.11	28.18	20.02	-137.55	-477.17	661.35	913.36	872.04	41.31	22.109	
6,400.00	6,154.11	6,259.81	6,154.11	28.28	20.16	-137.55	-477.17	661.35	913.36	871.78	41.58	21.966	
6,500.00	6,254.11	6,359.81	6,254.11	28.38	20.30	-137.55	-477.17	661.35	913.36	871.50	41.85	21.823	
6,600.00	6,354.11	6,459.81	6,354.11	28.49	20.44	-137.55	-477.17	661.35	913.36	871.23	42.13	21.680	
6,700.00	6,454.11	6,559.81	6,454.11	28.60	20.59	-137.55	-477.17	661.35	913.36	870.95	42.41	21.538	
6,800.00	6,554.11	6,659.81	6,554.11	28.70	20.73	-137.55	-477.17	661.35	913.36	870.67	42.69	21.396	
6,900.00	6,654.11	6,759.81	6,654.11	28.81	20.88	-137.55	-477.17	661.35	913.36	870.38	42.97	21.255	
7,000.00	6,754.11	6,859.81	6,754.11	28.92	21.02	-137.55	-477.17	661.35	913.36	870.10	43.26	21.114	
7,100.00	6,854.11	6,959.81	6,854.11	29.04	21.17	-137.55	-477.17	661.35	913.36	869.81	43.55	20.973	
7,200.00	6,954.11	7,059.81	6,954.11	29.15	21.32	-137.55	-477.17	661.35	913.36	869.52	43.84	20.834	
7,300.00	7,054.11	7,159.81	7,054.11	29.26	21.47	-137.55	-477.17	661.35	913.36	869.22	44.14	20.694	
7,400.00	7,154.11	7,259.81	7,154.11	29.38	21.63	-137.55	-477.17	661.35	913.36	868.92	44.43	20.556	
7,500.00	7,254.11	7,359.81	7,254.11	29.50	21.78	-137.55	-477.17	661.35	913.36	868.62	44.73	20.418	
7,600.00	7,354.11	7,459.81	7,354.11	29.62	21.94	-137.55	-477.17	661.35	913.36	868.32	45.04	20.281	
7,700.00	7,454.11	7,559.81	7,454.11	29.74	22.09	-137.55	-477.17	661.35	913.36	868.02	45.34	20.144	
7,800.00	7,554.11	7,659.81	7,554.11	29.86	22.25	-137.55	-477.17	661.35	913.36	867.71	45.65	20.009	
7,900.00	7,654.11	7,759.81	7,654.11	29.98	22.41	-137.55	-477.17	661.35	913.36	867.40	45.96	19.874	
8,000.00	7,754.11	7,859.81	7,754.11	30.10	22.57	-137.55	-477.17	661.35	913.36	867.09	46.27	19.740	
8,100.00	7,854.11	7,959.81	7,854.11	30.23	22.73	-137.55	-477.17	661.35	913.36	866.77	46.58	19.607	
8,200.00	7,954.11	8,059.81	7,954.11	30.35	22.89	-137.55	-477.17	661.35	913.36	866.46	46.90	19.475	
8,300.00	8,054.11	8,159.81	8,054.11	30.48	23.05	-137.55	-477.17	661.35	913.36	866.14	47.22	19.343	
8,338.89	8,093.00	8,198.71	8,093.00	30.53	23.12	-137.55	-477.17	661.35	913.36	866.01	47.34	19.292	





<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5171.00ft (Original Well Elev) Coordinates are relative to: P\_TALON VIEW 21-9  
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: 0.39°

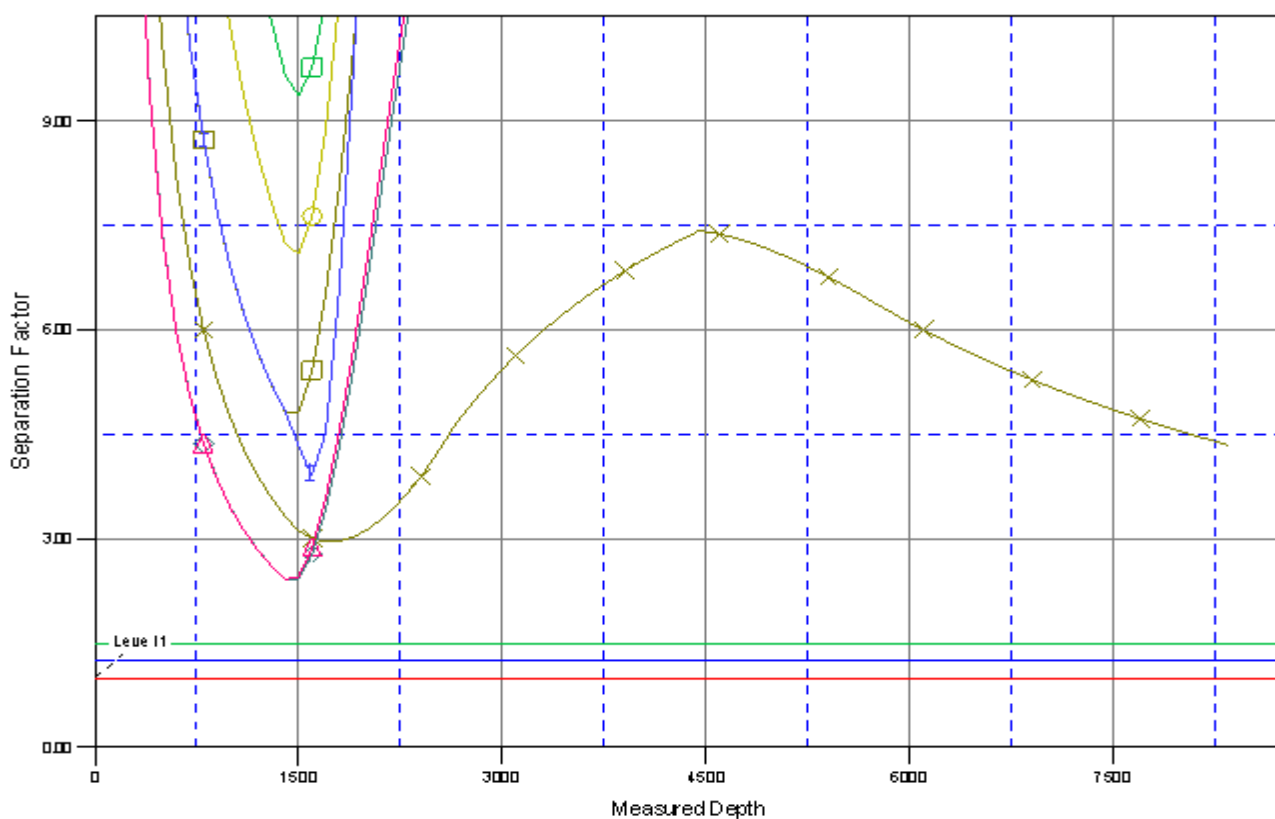




<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well P_TALON VIEW 21-9
<b>Project:</b>	KERR MCGEE OIL & GAS ONSHORE LP	<b>TVD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Reference Site:</b>	ADAMS_TALON VIEW 7 PAD	<b>MD Reference:</b>	WELL @ 5171.00ft (Original Well Elev)
<b>Site Error:</b>	0.00ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	P_TALON VIEW 21-9	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	P_TALON VIEW 21-9	<b>Database:</b>	EDM 2003.21 Single User Db
<b>Reference Design:</b>	PLAN #1 09-01-09 RHS	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5171.00ft (Original Well Elev) Coordinates are relative to: P\_TALON VIEW 21-9  
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: 0.39°

## Separation Factor Plot



## LEGEND

129 EXISTING WELL \0      P\_TALON VIEW 12-9, P\_TALON VIEW 12-9, PLAN #1 09-01-09 RHS \0      P\_TALON VIEW 5-4  
9 EXISTING WELL \0      P\_TALON VIEW 22-9, P\_TALON VIEW 22-9, PLAN #1 09-01-09 RHS \0      P\_TALON VIEW 6-4  
P\_TALON VIEW 30, P\_TALON VIEW 3-9, PLAN #1 09-01-09 RHS \0