

AXIS EXPLORATION

ARAPAHOE COUNTY

Sec 4-T4S-R65W

JAMASO 4-65 5-6-5

ORIGINAL WELLBORE

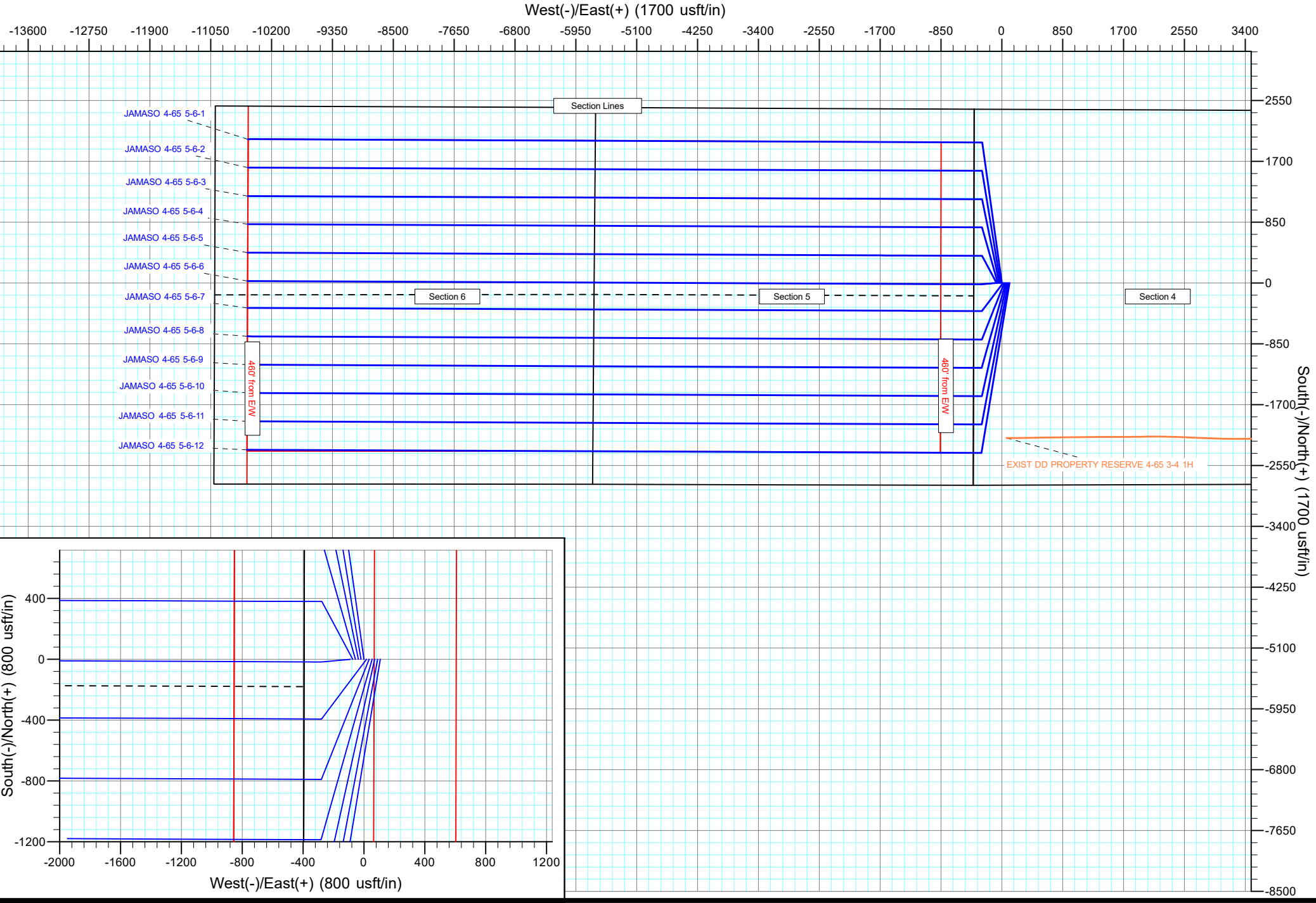
PROPOSAL 1

Anticollision Report

12 April, 2018



Project: ARAPAHOE COUNTY
Site: Sec 4-T4S-R65W
Well: JAMASO 4-65 5-6-1
ORIGINAL WELLBORE
PROPOSAL 1



Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/12/2018	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,917.28	PROPOSAL 1 (ORIGINAL WELLBORE)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 4-T4S-R65W						
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,677.56	16,985.00	2,602.31	2,330.39	9.570	CC, ES
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,700.00	16,985.00	2,602.50	2,330.52	9.569	SF
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	440.14	440.42	72.43	69.71	26.663	CC
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	500.00	499.96	72.65	69.49	23.047	ES
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	17,917.28	18,239.20	1,585.27	1,029.99	2.855	SF
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	920.22	921.75	140.05	133.93	22.884	CC
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	1,000.00	1,000.32	140.63	133.92	20.952	ES
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	17,917.28	18,153.00	1,960.33	1,404.21	3.525	SF
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	714.68	716.14	160.31	155.63	34.260	CC
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	800.00	800.18	160.88	155.56	30.205	ES
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	17,917.28	18,212.39	2,356.82	1,800.26	4.235	SF
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	508.75	510.15	177.60	174.33	54.432	CC
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	600.00	600.03	178.18	174.21	44.834	ES
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	17,917.28	18,210.73	2,757.14	2,200.80	4.956	SF
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	622.24	622.47	52.74	48.72	13.132	CC
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	700.00	699.81	53.21	48.63	11.623	ES
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	17,917.28	18,090.80	1,187.53	632.23	2.139	SF
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	804.91	805.08	35.82	30.50	6.729	CC, ES
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	17,917.28	17,881.88	801.74	253.04	1.461	Level 3, SF
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	962.27	962.35	16.24	9.79	2.517	CC
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	17,917.28	17,999.47	399.83	-150.91	0.726	Level 1, ES, SF
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	1,210.19	1,210.00	14.88	6.66	1.810	CC
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	17,917.28	17,770.22	419.05	-107.98	0.795	Level 1, ES, SF
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	1,000.00	1,000.00	90.00	83.28	13.390	CC, ES
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	17,917.28	17,969.35	773.68	219.13	1.395	Level 3, SF
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	1,111.36	1,113.77	105.39	97.92	14.098	CC, ES
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	17,917.28	17,963.18	1,169.30	613.71	2.105	SF
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	1,055.35	1,057.75	122.73	115.67	17.373	CC, ES
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	17,917.28	17,893.54	1,572.07	1,017.76	2.836	SF

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 83-MWD													Sec 4-T4S-R65W - EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbore #1 - Wellbore #1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	16,985.00	8,060.83	0.00	249.75	176.34	-2,164.51	138.54	8,246.18							
100.00	100.00	16,985.00	8,060.83	0.13	249.75	176.34	-2,164.51	138.54	8,149.75	8,049.89	99.86	81.614				
200.00	200.00	16,985.00	8,060.83	0.49	249.75	176.34	-2,164.51	138.54	8,053.40	7,953.03	100.37	80.238				
300.00	300.00	16,985.00	8,060.83	0.85	249.75	176.34	-2,164.51	138.54	7,957.14	7,856.23	100.90	78.858				
400.00	400.00	16,985.00	8,060.83	1.21	249.75	176.34	-2,164.51	138.54	7,860.97	7,759.51	101.46	77.475				
500.00	500.00	16,985.00	8,060.83	1.57	249.75	176.34	-2,164.51	138.54	7,764.90	7,662.85	102.05	76.088				
600.00	600.00	16,985.00	8,060.83	1.93	249.75	176.34	-2,164.51	138.54	7,668.93	7,566.27	102.66	74.699				
700.00	700.00	16,985.00	8,060.83	2.29	249.75	176.34	-2,164.51	138.54	7,573.07	7,469.76	103.30	73.308				
800.00	800.00	16,985.00	8,060.83	2.64	249.75	176.34	-2,164.51	138.54	7,477.31	7,373.34	103.97	71.917				
900.00	900.00	16,985.00	8,060.83	3.00	249.75	176.34	-2,164.51	138.54	7,381.67	7,277.00	104.67	70.526				
1,000.00	1,000.00	16,985.00	8,060.83	3.36	249.75	176.34	-2,164.51	138.54	7,286.14	7,180.75	105.39	69.136				
1,100.00	1,099.98	16,985.00	8,060.83	3.72	249.75	-157.91	-2,164.51	138.54	7,191.24	7,085.07	106.17	67.736				
1,200.00	1,199.84	16,985.00	8,060.83	4.08	249.75	-159.84	-2,164.51	138.54	7,097.56	6,990.53	107.03	66.311				
1,202.60	1,202.43	16,985.00	8,060.83	4.09	249.75	-159.88	-2,164.51	138.54	7,095.14	6,988.08	107.06	66.274				
1,300.00	1,299.59	16,985.00	8,060.83	4.44	249.75	-159.88	-2,164.51	138.54	7,004.68	6,896.70	107.98	64.869				
1,400.00	1,399.34	16,985.00	8,060.83	4.80	249.75	-159.88	-2,164.51	138.54	6,912.00	6,803.02	108.98	63.426				
1,500.00	1,499.09	16,985.00	8,060.83	5.16	249.75	-159.88	-2,164.51	138.54	6,819.52	6,709.51	110.01	61.990				
1,600.00	1,598.84	16,985.00	8,060.83	5.53	249.75	-159.88	-2,164.51	138.54	6,727.26	6,616.18	111.08	60.561				
1,700.00	1,698.59	16,985.00	8,060.83	5.89	249.75	-159.88	-2,164.51	138.54	6,635.22	6,523.03	112.19	59.141				
1,800.00	1,798.34	16,985.00	8,060.83	6.26	249.75	-159.88	-2,164.51	138.54	6,543.42	6,430.08	113.34	57.731				
1,900.00	1,898.09	16,985.00	8,060.83	6.63	249.75	-159.88	-2,164.51	138.54	6,451.86	6,337.33	114.53	56.331				
2,000.00	1,997.84	16,985.00	8,060.83	7.00	249.75	-159.88	-2,164.51	138.54	6,360.56	6,244.79	115.77	54.942				
2,100.00	2,097.59	16,985.00	8,060.83	7.37	249.75	-159.88	-2,164.51	138.54	6,269.52	6,152.48	117.04	53.565				
2,200.00	2,197.34	16,985.00	8,060.83	7.74	249.75	-159.88	-2,164.51	138.54	6,178.76	6,060.39	118.37	52.201				
2,300.00	2,297.09	16,985.00	8,060.83	8.11	249.75	-159.88	-2,164.51	138.54	6,088.29	5,968.56	119.73	50.849				
2,400.00	2,396.84	16,985.00	8,060.83	8.48	249.75	-159.88	-2,164.51	138.54	5,998.12	5,876.97	121.15	49.511				
2,500.00	2,496.59	16,985.00	8,060.83	8.85	249.75	-159.88	-2,164.51	138.54	5,908.27	5,785.65	122.61	48.187				
2,600.00	2,596.34	16,985.00	8,060.83	9.22	249.75	-159.88	-2,164.51	138.54	5,818.74	5,694.62	124.13	46.878				
2,700.00	2,696.09	16,985.00	8,060.83	9.59	249.75	-159.88	-2,164.51	138.54	5,729.57	5,603.88	125.69	45.584				
2,800.00	2,795.84	16,985.00	8,060.83	9.97	249.75	-159.88	-2,164.51	138.54	5,640.76	5,513.44	127.31	44.306				
2,900.00	2,895.59	16,985.00	8,060.83	10.34	249.75	-159.88	-2,164.51	138.54	5,552.32	5,423.33	128.99	43.044				
3,000.00	2,995.34	16,985.00	8,060.83	10.71	249.75	-159.88	-2,164.51	138.54	5,464.29	5,333.57	130.73	41.800				
3,100.00	3,095.09	16,985.00	8,060.83	11.08	249.75	-159.88	-2,164.51	138.54	5,376.68	5,244.16	132.52	40.573				
3,200.00	3,194.84	16,985.00	8,060.83	11.46	249.75	-159.88	-2,164.51	138.54	5,289.50	5,155.13	134.38	39.364				
3,300.00	3,294.59	16,985.00	8,060.83	11.83	249.75	-159.88	-2,164.51	138.54	5,202.79	5,066.49	136.30	38.173				
3,400.00	3,394.34	16,985.00	8,060.83	12.20	249.75	-159.88	-2,164.51	138.54	5,116.56	4,978.28	138.28	37.001				
3,500.00	3,494.09	16,985.00	8,060.83	12.58	249.75	-159.88	-2,164.51	138.54	5,030.84	4,890.50	140.34	35.848				
3,600.00	3,593.84	16,985.00	8,060.83	12.95	249.75	-159.88	-2,164.51	138.54	4,945.66	4,803.20	142.46	34.716				
3,700.00	3,693.59	16,985.00	8,060.83	13.32	249.75	-159.88	-2,164.51	138.54	4,861.04	4,716.38	144.66	33.603				
3,800.00	3,793.34	16,985.00	8,060.83	13.70	249.75	-159.88	-2,164.51	138.54	4,777.02	4,630.08	146.93	32.511				
3,900.00	3,893.09	16,985.00	8,060.83	14.07	249.75	-159.88	-2,164.51	138.54	4,693.62	4,544.34	149.28	31.441				
4,000.00	3,992.84	16,985.00	8,060.83	14.44	249.75	-159.88	-2,164.51	138.54	4,610.88	4,459.17	151.71	30.392				
4,100.00	4,092.59	16,985.00	8,060.83	14.82	249.75	-159.88	-2,164.51	138.54	4,528.84	4,374.62	154.23	29.365				
4,200.00	4,192.34	16,985.00	8,060.83	15.19	249.75	-159.88	-2,164.51	138.54	4,447.54	4,290.72	156.82	28.361				
4,300.00	4,292.09	16,985.00	8,060.83	15.57	249.75	-159.88	-2,164.51	138.54	4,367.01	4,207.51	159.50	27.379				
4,400.00	4,391.84	16,985.00	8,060.83	15.94	249.75	-159.88	-2,164.51	138.54	4,287.30	4,125.03	162.27	26.421				
4,500.00	4,491.59	16,985.00	8,060.83	16.31	249.75	-159.88	-2,164.51	138.54	4,208.46	4,043.33	165.13	25.486				
4,600.00	4,591.34	16,985.00	8,060.83	16.69	249.75	-159.88	-2,164.51	138.54	4,130.53	3,962.45	168.08	24.575				
4,700.00	4,691.09	16,985.00	8,060.83	17.06	249.75	-159.88	-2,164.51	138.54	4,053.57	3,882.45	171.12	23.688				
4,800.00	4,790.84	16,985.00	8,060.83	17.44	249.75	-159.88	-2,164.51	138.54	3,977.64	3,803.39	174.25	22.827				
4,900.00	4,890.59	16,985.00	8,060.83	17.81	249.75	-159.88	-2,164.51	138.54	3,902.80	3,725.31	177.48	21.990				
5,000.00	4,990.34	16,985.00	8,060.83	18.19	249.75	-159.88	-2,164.51	138.54	3,829.10	3,648.30	180.80	21.179				

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 83-MWD													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	5,090.09	16,985.00	8,060.83	18.56	249.75	-159.88	-2,164.51	138.54	3,756.62	3,572.40	184.21	20.393			
5,200.00	5,189.84	16,985.00	8,060.83	18.93	249.75	-159.88	-2,164.51	138.54	3,685.42	3,497.71	187.72	19.633			
5,300.00	5,289.59	16,985.00	8,060.83	19.31	249.75	-159.88	-2,164.51	138.54	3,615.59	3,424.28	191.31	18.899			
5,400.00	5,389.34	16,985.00	8,060.83	19.68	249.75	-159.88	-2,164.51	138.54	3,547.21	3,352.22	194.99	18.192			
5,500.00	5,489.09	16,985.00	8,060.83	20.06	249.75	-159.88	-2,164.51	138.54	3,480.35	3,281.61	198.74	17.512			
5,600.00	5,588.84	16,985.00	8,060.83	20.43	249.75	-159.88	-2,164.51	138.54	3,415.12	3,212.54	202.58	16.858			
5,700.00	5,688.59	16,985.00	8,060.83	20.81	249.75	-159.88	-2,164.51	138.54	3,351.60	3,145.11	206.48	16.232			
5,800.00	5,788.34	16,985.00	8,060.83	21.18	249.75	-159.88	-2,164.51	138.54	3,289.89	3,079.44	210.45	15.633			
5,900.00	5,888.09	16,985.00	8,060.83	21.56	249.75	-159.88	-2,164.51	138.54	3,230.10	3,015.64	214.46	15.061			
6,000.00	5,987.84	16,985.00	8,060.83	21.93	249.75	-159.88	-2,164.51	138.54	3,172.34	2,953.82	218.52	14.517			
6,100.00	6,087.59	16,985.00	8,060.83	22.30	249.75	-159.88	-2,164.51	138.54	3,116.71	2,894.11	222.60	14.001			
6,200.00	6,187.34	16,985.00	8,060.83	22.68	249.75	-159.88	-2,164.51	138.54	3,063.35	2,836.65	226.69	13.513			
6,300.00	6,287.09	16,985.00	8,060.83	23.05	249.75	-159.88	-2,164.51	138.54	3,012.35	2,781.57	230.78	13.053			
6,400.00	6,386.84	16,985.00	8,060.83	23.43	249.75	-159.88	-2,164.51	138.54	2,963.86	2,729.02	234.84	12.621			
6,500.00	6,486.59	16,985.00	8,060.83	23.80	249.75	-159.88	-2,164.51	138.54	2,917.98	2,679.13	238.85	12.217			
6,600.00	6,586.34	16,985.00	8,060.83	24.18	249.75	-159.88	-2,164.51	138.54	2,874.85	2,632.07	242.79	11.841			
6,700.00	6,686.09	16,985.00	8,060.83	24.55	249.75	-159.88	-2,164.51	138.54	2,834.60	2,587.97	246.63	11.493			
6,800.00	6,785.84	16,985.00	8,060.83	24.93	249.75	-159.88	-2,164.51	138.54	2,797.34	2,547.00	250.35	11.174			
6,900.00	6,885.59	16,985.00	8,060.83	25.30	249.75	-159.88	-2,164.51	138.54	2,763.21	2,509.29	253.91	10.883			
7,000.00	6,985.34	16,985.00	8,060.83	25.68	249.75	-159.88	-2,164.51	138.54	2,732.30	2,475.01	257.30	10.619			
7,098.48	7,083.57	16,985.00	8,060.83	26.04	249.75	-159.88	-2,164.51	138.54	2,705.14	2,444.72	260.43	10.387			
7,100.00	7,085.09	16,985.00	8,060.83	26.05	249.75	-159.88	-2,164.51	138.54	2,704.75	2,444.27	260.47	10.384			
7,200.00	7,184.95	16,985.00	8,060.83	26.42	249.75	-159.70	-2,164.51	138.54	2,679.00	2,415.59	263.41	10.171			
7,299.99	7,284.91	16,985.00	8,060.83	26.77	249.75	-159.51	-2,164.51	138.54	2,653.58	2,387.50	266.08	9.973			
7,301.08	7,286.00	16,985.00	8,060.83	26.77	249.75	172.35	-2,164.51	138.54	2,653.30	2,387.20	266.10	9.971			
7,331.08	7,316.00	16,985.00	8,060.83	26.88	249.75	172.35	-2,164.51	138.54	2,645.89	2,379.04	266.85	9.915			
7,350.00	7,334.92	16,985.00	8,060.83	26.94	249.75	-98.36	-2,164.51	138.54	2,641.42	2,374.12	267.30	9.882			
7,400.00	7,384.76	16,985.00	8,060.83	27.12	249.75	-99.44	-2,164.51	138.54	2,630.67	2,362.25	268.42	9.801			
7,450.00	7,434.07	16,985.00	8,060.83	27.30	249.75	-100.36	-2,164.51	138.54	2,621.53	2,352.13	269.39	9.731			
7,500.00	7,482.49	16,985.00	8,060.83	27.49	249.75	-101.10	-2,164.51	138.54	2,614.09	2,343.86	270.23	9.674			
7,550.00	7,529.64	16,985.00	8,060.83	27.69	249.75	-101.66	-2,164.51	138.54	2,608.42	2,337.51	270.91	9.628			
7,600.00	7,575.16	16,985.00	8,060.83	27.90	249.75	-102.04	-2,164.51	138.54	2,604.58	2,333.15	271.43	9.596			
7,650.00	7,618.71	16,985.00	8,060.83	28.11	249.75	-102.23	-2,164.51	138.54	2,602.60	2,330.81	271.79	9.576			
7,677.56	7,641.75	16,985.00	8,060.83	28.24	249.75	-102.26	-2,164.51	138.54	2,602.31	2,330.39	271.92	9.570	CC, ES		
7,700.00	7,659.96	16,985.00	8,060.83	28.34	249.75	-102.24	-2,164.51	138.54	2,602.50	2,330.52	271.99	9.569	SF		
7,750.00	7,698.59	16,985.00	8,060.83	28.59	249.75	-102.06	-2,164.51	138.54	2,604.29	2,332.27	272.02	9.574			
7,800.00	7,734.31	16,985.00	8,060.83	28.86	249.75	-101.71	-2,164.51	138.54	2,607.94	2,336.04	271.90	9.591			
7,850.00	7,766.84	16,985.00	8,060.83	29.16	249.75	-101.16	-2,164.51	138.54	2,613.43	2,341.79	271.64	9.621			
7,900.00	7,795.95	16,985.00	8,060.83	29.49	249.75	-100.44	-2,164.51	138.54	2,620.69	2,349.45	271.24	9.662			
7,950.00	7,821.40	16,985.00	8,060.83	29.86	249.75	-99.55	-2,164.51	138.54	2,629.66	2,358.94	270.72	9.714			
8,000.00	7,843.01	16,985.00	8,060.83	30.28	249.75	-98.48	-2,164.51	138.54	2,640.25	2,370.16	270.09	9.776			
8,050.00	7,860.61	16,985.00	8,060.83	30.74	249.75	-97.24	-2,164.51	138.54	2,652.36	2,383.00	269.36	9.847			
8,100.00	7,874.06	16,985.00	8,060.83	31.25	249.75	-95.84	-2,164.51	138.54	2,665.89	2,397.34	268.54	9.927			
8,150.00	7,883.26	16,985.00	8,060.83	31.80	249.75	-94.30	-2,164.51	138.54	2,680.70	2,413.04	267.65	10.016			
8,200.00	7,888.15	16,985.00	8,060.83	32.39	249.75	-92.62	-2,164.51	138.54	2,696.67	2,429.96	266.70	10.111			
8,231.14	7,889.00	16,985.00	8,060.83	32.77	249.75	-91.51	-2,164.51	138.54	2,707.13	2,441.05	266.08	10.174			
8,300.00	7,889.00	16,985.00	8,060.83	33.66	249.75	-91.51	-2,164.51	138.54	2,731.45	2,466.79	264.66	10.321			
8,400.00	7,889.00	16,985.00	8,060.83	35.10	249.75	-91.51	-2,164.51	138.54	2,769.43	2,506.91	262.52	10.549			
8,500.00	7,889.00	16,985.00	8,060.83	36.68	249.75	-91.51	-2,164.51	138.54	2,810.47	2,550.18	260.29	10.797			
8,600.00	7,889.00	16,985.00	8,060.83	38.38	249.75	-91.51	-2,164.51	138.54	2,854.41	2,596.44	257.97	11.065			
8,700.00	7,889.00	16,985.00	8,060.83	40.19	249.75	-91.51	-2,164.51	138.54	2,901.14	2,645.56	255.58	11.351			
8,800.00	7,889.00	16,985.00	8,060.83	42.09	249.75	-91.51	-2,164.51	138.54	2,950.52	2,697.41	253.11	11.657			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 83-MWD													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,889.00	16,985.00	8,060.83	44.08	249.75	-91.51	-2,164.51	138.54	3,002.42	2,751.82	250.59	11.981		
9,000.00	7,889.00	16,985.00	8,060.83	46.14	249.75	-91.51	-2,164.51	138.54	3,056.71	2,808.68	248.03	12.324		
9,100.00	7,889.00	16,985.00	8,060.83	48.26	249.75	-91.51	-2,164.51	138.54	3,113.26	2,867.84	245.43	12.685		
9,200.00	7,889.00	16,985.00	8,060.83	50.44	249.75	-91.51	-2,164.51	138.54	3,171.97	2,929.16	242.80	13.064		
9,300.00	7,889.00	16,985.00	8,060.83	52.66	249.75	-91.51	-2,164.51	138.54	3,232.70	2,992.53	240.16	13.460		
9,400.00	7,889.00	16,985.00	8,060.83	54.93	249.75	-91.51	-2,164.51	138.54	3,295.34	3,057.82	237.52	13.874		
9,500.00	7,889.00	16,985.00	8,060.83	57.23	249.75	-91.51	-2,164.51	138.54	3,359.79	3,124.91	234.88	14.304		
9,600.00	7,889.00	16,985.00	8,060.83	59.56	249.75	-91.51	-2,164.51	138.54	3,425.96	3,193.70	232.25	14.751		
9,700.00	7,889.00	16,985.00	8,060.83	61.93	249.75	-91.51	-2,164.51	138.54	3,493.73	3,264.08	229.64	15.214		
9,800.00	7,889.00	16,985.00	8,060.83	64.31	249.75	-91.51	-2,164.51	138.54	3,563.01	3,335.96	227.06	15.692		
9,900.00	7,889.00	16,985.00	8,060.83	66.73	249.75	-91.51	-2,164.51	138.54	3,633.73	3,409.23	224.50	16.186		
10,000.00	7,889.00	16,985.00	8,060.83	69.16	249.75	-91.51	-2,164.51	138.54	3,705.80	3,483.82	221.99	16.694		
10,100.00	7,889.00	16,985.00	8,060.83	71.61	249.75	-91.51	-2,164.51	138.54	3,779.14	3,559.64	219.51	17.217		
10,200.00	7,889.00	16,985.00	8,060.83	74.08	249.75	-91.51	-2,164.51	138.54	3,853.68	3,636.61	217.07	17.753		
10,300.00	7,889.00	16,985.00	8,060.83	76.56	249.75	-91.51	-2,164.51	138.54	3,929.35	3,714.68	214.68	18.304		
10,400.00	7,889.00	16,985.00	8,060.83	79.06	249.75	-91.51	-2,164.51	138.54	4,006.09	3,793.76	212.33	18.867		
10,500.00	7,889.00	16,985.00	8,060.83	81.56	249.75	-91.51	-2,164.51	138.54	4,083.84	3,873.80	210.03	19.444		
10,600.00	7,889.00	16,985.00	8,060.83	84.08	249.75	-91.51	-2,164.51	138.54	4,162.53	3,954.75	207.78	20.033		
10,700.00	7,889.00	16,985.00	8,060.83	86.61	249.75	-91.51	-2,164.51	138.54	4,242.13	4,036.54	205.59	20.634		
10,800.00	7,889.00	16,985.00	8,060.83	89.15	249.75	-91.51	-2,164.51	138.54	4,322.57	4,119.13	203.44	21.247		
10,900.00	7,889.00	16,985.00	8,060.83	91.70	249.75	-91.51	-2,164.51	138.54	4,403.81	4,202.46	201.34	21.872		
11,000.00	7,889.00	16,985.00	8,060.83	94.26	249.75	-91.51	-2,164.51	138.54	4,485.81	4,286.51	199.30	22.508		
11,100.00	7,889.00	16,985.00	8,060.83	96.82	249.75	-91.51	-2,164.51	138.54	4,568.53	4,371.22	197.30	23.155		
11,200.00	7,889.00	16,985.00	8,060.83	99.39	249.75	-91.51	-2,164.51	138.54	4,651.92	4,456.56	195.36	23.812		
11,300.00	7,889.00	16,985.00	8,060.83	101.97	249.75	-91.51	-2,164.51	138.54	4,735.96	4,542.50	193.46	24.480		
11,400.00	7,889.00	16,985.00	8,060.83	104.55	249.75	-91.51	-2,164.51	138.54	4,820.61	4,628.99	191.62	25.157		
11,500.00	7,889.00	16,985.00	8,060.83	107.13	249.75	-91.51	-2,164.51	138.54	4,905.84	4,716.02	189.82	25.845		
11,600.00	7,889.00	16,985.00	8,060.83	109.73	249.75	-91.51	-2,164.51	138.54	4,991.61	4,803.54	188.07	26.541		
11,700.00	7,889.00	16,985.00	8,060.83	112.32	249.75	-91.51	-2,164.51	138.54	5,077.91	4,891.54	186.36	27.247		
11,800.00	7,889.00	16,985.00	8,060.83	114.92	249.75	-91.51	-2,164.51	138.54	5,164.70	4,979.99	184.71	27.962		
11,900.00	7,889.00	16,985.00	8,060.83	117.53	249.75	-91.51	-2,164.51	138.54	5,251.95	5,068.87	183.09	28.685		
12,000.00	7,889.00	16,985.00	8,060.83	120.14	249.75	-91.51	-2,164.51	138.54	5,339.66	5,158.14	181.52	29.417		
12,100.00	7,889.00	16,985.00	8,060.83	122.75	249.75	-91.51	-2,164.51	138.54	5,427.79	5,247.80	179.99	30.156		
12,200.00	7,889.00	16,985.00	8,060.83	125.36	249.75	-91.51	-2,164.51	138.54	5,516.33	5,337.83	178.50	30.904		
12,300.00	7,889.00	16,985.00	8,060.83	127.98	249.75	-91.51	-2,164.51	138.54	5,605.25	5,428.20	177.05	31.659		
12,400.00	7,888.99	16,985.00	8,060.83	130.60	249.75	-91.51	-2,164.51	138.54	5,694.54	5,518.90	175.64	32.422		
12,500.00	7,888.99	16,985.00	8,060.83	133.23	249.75	-91.51	-2,164.51	138.54	5,784.18	5,609.91	174.27	33.192		
12,600.00	7,888.99	16,985.00	8,060.83	135.85	249.75	-91.51	-2,164.51	138.54	5,874.15	5,701.22	172.93	33.968		
12,700.00	7,888.99	16,985.00	8,060.83	138.48	249.75	-91.51	-2,164.51	138.54	5,964.45	5,792.82	171.63	34.752		
12,800.00	7,888.99	16,985.00	8,060.83	141.12	249.75	-91.51	-2,164.51	138.54	6,055.05	5,884.68	170.36	35.542		
12,900.00	7,888.99	16,985.00	8,060.83	143.75	249.75	-91.51	-2,164.51	138.54	6,145.94	5,976.81	169.13	36.338		
13,000.00	7,888.99	16,985.00	8,060.83	146.38	249.75	-91.51	-2,164.51	138.54	6,237.11	6,069.17	167.93	37.141		
13,100.00	7,888.99	16,985.00	8,060.83	149.02	249.75	-91.51	-2,164.51	138.54	6,328.54	6,161.78	166.76	37.949		
13,200.00	7,888.99	16,985.00	8,060.83	151.66	249.75	-91.51	-2,164.51	138.54	6,420.23	6,254.61	165.63	38.764		
13,300.00	7,888.99	16,985.00	8,060.83	154.30	249.75	-91.51	-2,164.51	138.54	6,512.17	6,347.65	164.52	39.583		
13,400.00	7,888.99	16,985.00	8,060.83	156.94	249.75	-91.51	-2,164.51	138.54	6,604.34	6,440.90	163.44	40.409		
13,500.00	7,888.99	16,985.00	8,060.83	159.59	249.75	-91.51	-2,164.51	138.54	6,696.73	6,534.35	162.39	41.239		
13,600.00	7,888.99	16,985.00	8,060.83	162.24	249.75	-91.51	-2,164.51	138.54	6,789.34	6,627.98	161.36	42.075		
13,700.00	7,888.99	16,985.00	8,060.83	164.88	249.75	-91.51	-2,164.51	138.54	6,882.16	6,721.79	160.37	42.915		
13,800.00	7,888.99	16,985.00	8,060.83	167.53	249.75	-91.51	-2,164.51	138.54	6,975.18	6,815.78	159.39	43.760		
13,900.00	7,888.99	16,985.00	8,060.83	170.18	249.75	-91.51	-2,164.51	138.54	7,068.38	6,909.94	158.45	44.610		
14,000.00	7,888.99	16,985.00	8,060.83	172.83	249.75	-91.51	-2,164.51	138.54	7,161.77	7,004.25	157.52	45.465		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 83-MWD												Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.00	7,888.99	16,985.00	8,060.83	175.48	249.75	-91.51	-2,164.51	138.54	7,255.34	7,098.71	156.62	46.323	
14,200.00	7,888.99	16,985.00	8,060.83	178.14	249.75	-91.51	-2,164.51	138.54	7,349.07	7,193.33	155.75	47.186	
14,300.00	7,888.99	16,985.00	8,060.83	180.79	249.75	-91.51	-2,164.51	138.54	7,442.97	7,288.08	154.89	48.053	
14,400.00	7,888.99	16,985.00	8,060.83	183.45	249.75	-91.51	-2,164.51	138.54	7,537.03	7,382.97	154.06	48.923	
14,500.00	7,888.99	16,985.00	8,060.83	186.10	249.75	-91.51	-2,164.51	138.54	7,631.23	7,477.99	153.25	49.798	
14,600.00	7,888.99	16,985.00	8,060.83	188.76	249.75	-91.51	-2,164.51	138.54	7,725.59	7,573.13	152.45	50.675	
14,700.00	7,888.99	16,985.00	8,060.83	191.42	249.75	-91.51	-2,164.51	138.54	7,820.08	7,668.40	151.68	51.557	
14,800.00	7,888.99	16,985.00	8,060.83	194.08	249.75	-91.51	-2,164.51	138.54	7,914.71	7,763.78	150.92	52.442	
14,900.00	7,888.99	16,985.00	8,060.83	196.74	249.75	-91.51	-2,164.51	138.54	8,009.47	7,859.28	150.19	53.330	
15,000.00	7,888.99	16,985.00	8,060.83	199.40	249.75	-91.51	-2,164.51	138.54	8,104.35	7,954.88	149.47	54.221	
15,100.00	7,888.99	16,985.00	8,060.83	202.06	249.75	-91.51	-2,164.51	138.54	8,199.36	8,050.59	148.77	55.115	
15,200.00	7,888.99	16,985.00	8,060.83	204.72	249.75	-91.51	-2,164.51	138.54	8,294.48	8,146.40	148.08	56.012	
15,300.00	7,888.99	16,985.00	8,060.83	207.39	249.75	-91.51	-2,164.51	138.54	8,389.72	8,242.30	147.42	56.912	
15,400.00	7,888.99	16,985.00	8,060.83	210.05	249.75	-91.51	-2,164.51	138.54	8,485.06	8,338.30	146.76	57.814	
15,500.00	7,888.99	16,985.00	8,060.83	212.71	249.75	-91.51	-2,164.51	138.54	8,580.52	8,434.39	146.13	58.720	
15,600.00	7,888.99	16,985.00	8,060.83	215.38	249.75	-91.51	-2,164.51	138.54	8,676.07	8,530.56	145.51	59.627	
15,700.00	7,888.99	16,985.00	8,060.83	218.05	249.75	-91.51	-2,164.51	138.54	8,771.72	8,626.83	144.90	60.537	
15,800.00	7,888.99	16,985.00	8,060.83	220.71	249.75	-91.51	-2,164.51	138.54	8,867.47	8,723.17	144.31	61.449	
15,900.00	7,888.99	16,985.00	8,060.83	223.38	249.75	-91.51	-2,164.51	138.54	8,963.32	8,819.59	143.73	62.363	
16,000.00	7,888.99	16,985.00	8,060.83	226.05	249.75	-91.51	-2,164.51	138.54	9,059.25	8,916.09	143.16	63.280	
16,100.00	7,888.99	16,985.00	8,060.83	228.71	249.75	-91.51	-2,164.51	138.54	9,155.27	9,012.66	142.61	64.198	
16,200.00	7,888.99	16,985.00	8,060.83	231.38	249.75	-91.51	-2,164.51	138.54	9,251.37	9,109.30	142.07	65.119	
16,300.00	7,888.99	16,985.00	8,060.83	234.05	249.75	-91.51	-2,164.51	138.54	9,347.56	9,206.02	141.54	66.041	
16,400.00	7,888.99	16,985.00	8,060.83	236.72	249.75	-91.51	-2,164.51	138.54	9,443.82	9,302.80	141.03	66.965	
16,500.00	7,888.99	16,985.00	8,060.83	239.39	249.75	-91.51	-2,164.51	138.54	9,540.17	9,399.64	140.52	67.890	
16,600.00	7,888.99	16,985.00	8,060.83	242.06	249.75	-91.51	-2,164.51	138.54	9,636.58	9,496.55	140.03	68.817	
16,700.00	7,888.99	16,985.00	8,060.83	244.73	249.75	-91.51	-2,164.51	138.54	9,733.07	9,593.52	139.55	69.746	
16,800.00	7,888.99	16,985.00	8,060.83	247.40	249.75	-91.51	-2,164.51	138.54	9,829.63	9,690.55	139.08	70.676	
16,900.00	7,888.99	16,985.00	8,060.83	250.07	249.75	-91.51	-2,164.51	138.54	9,926.26	9,787.63	138.62	71.607	

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	73.12	73.12					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	73.12	73.12	72.86	0.27	271.987		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	73.12	73.12	72.14	0.99	74.178		
300.00	300.00	300.31	300.29	0.85	0.85	88.63	1.74	72.88	72.90	71.20	1.70	42.793		
400.00	400.00	400.38	400.22	1.21	1.22	84.51	6.94	72.16	72.49	70.07	2.42	29.908		
440.14	440.14	440.42	440.14	1.35	1.37	82.07	9.99	71.73	72.43	69.71	2.72	26.663	CC	
500.00	500.00	499.96	499.41	1.57	1.59	77.65	15.54	70.96	72.65	69.49	3.15	23.047	ES	
600.00	600.00	598.82	597.53	1.93	1.97	68.39	27.45	69.30	74.58	70.69	3.89	19.160		
700.00	700.00	696.73	694.24	2.29	2.37	57.66	42.55	67.20	79.75	75.11	4.64	17.184		
800.00	800.00	793.48	789.24	2.64	2.79	46.83	60.67	64.68	89.33	83.95	5.38	16.598		
900.00	900.00	888.88	882.26	3.00	3.24	37.11	81.64	61.76	103.89	97.79	6.10	17.024		
1,000.00	1,000.00	982.75	973.04	3.36	3.71	29.05	105.26	58.47	123.39	116.59	6.80	18.147		
1,100.00	1,099.98	1,075.37	1,061.82	3.72	4.20	50.93	131.44	54.83	146.38	138.91	7.47	19.593		
1,200.00	1,199.84	1,171.78	1,153.70	4.08	4.75	46.72	160.34	50.80	169.78	161.60	8.19	20.732		
1,202.60	1,202.43	1,174.31	1,156.11	4.09	4.76	46.64	161.09	50.70	170.37	162.16	8.21	20.755		
1,300.00	1,299.59	1,268.86	1,246.23	4.44	5.31	44.17	189.44	46.75	192.47	183.55	8.93	21.562		
1,400.00	1,399.34	1,365.94	1,338.75	4.80	5.87	42.17	218.55	42.70	215.45	205.78	9.67	22.280		
1,500.00	1,499.09	1,463.02	1,431.27	5.16	6.44	40.55	247.65	38.65	238.62	228.21	10.42	22.909		
1,600.00	1,598.84	1,560.09	1,523.79	5.53	7.02	39.22	276.76	34.60	261.95	250.78	11.16	23.463		
1,700.00	1,698.59	1,657.17	1,616.32	5.89	7.60	38.11	305.87	30.54	285.38	273.47	11.91	23.953		
1,800.00	1,798.34	1,754.25	1,708.84	6.26	8.18	37.16	334.97	26.49	308.90	296.24	12.67	24.389		
1,900.00	1,898.09	1,851.32	1,801.36	6.63	8.76	36.35	364.08	22.44	332.49	319.08	13.42	24.779		
2,000.00	1,997.84	1,948.40	1,893.88	7.00	9.34	35.65	393.18	18.39	356.14	341.97	14.17	25.130		
2,100.00	2,097.59	2,045.48	1,986.41	7.37	9.93	35.03	422.29	14.34	379.83	364.90	14.93	25.446		
2,200.00	2,197.34	2,142.56	2,078.93	7.74	10.52	34.49	451.40	10.28	403.56	387.87	15.68	25.732		
2,300.00	2,297.09	2,239.63	2,171.45	8.11	11.11	34.00	480.50	6.23	427.31	410.87	16.44	25.993		
2,400.00	2,396.84	2,336.71	2,263.97	8.48	11.69	33.57	509.61	2.18	451.10	433.90	17.20	26.232		
2,500.00	2,496.59	2,433.79	2,356.50	8.85	12.28	33.18	538.71	-1.87	474.90	456.95	17.95	26.450		
2,600.00	2,596.34	2,530.86	2,449.02	9.22	12.87	32.83	567.82	-5.92	498.73	480.01	18.71	26.651		
2,700.00	2,696.09	2,627.94	2,541.54	9.59	13.46	32.51	596.93	-9.98	522.57	503.09	19.47	26.837		
2,800.00	2,795.84	2,725.02	2,634.06	9.97	14.05	32.21	626.03	-14.03	546.42	526.19	20.23	27.009		
2,900.00	2,895.59	2,822.10	2,726.59	10.34	14.64	31.95	655.14	-18.08	570.29	549.30	20.99	27.168		
3,000.00	2,995.34	2,919.17	2,819.11	10.71	15.24	31.70	684.24	-22.13	594.16	572.41	21.75	27.317		
3,100.00	3,095.09	3,016.25	2,911.63	11.08	15.83	31.47	713.35	-26.18	618.05	595.54	22.51	27.455		
3,200.00	3,194.84	3,113.33	3,004.15	11.46	16.42	31.26	742.45	-30.24	641.94	618.67	23.27	27.585		
3,300.00	3,294.59	3,210.40	3,096.68	11.83	17.01	31.07	771.56	-34.29	665.85	641.81	24.03	27.706		
3,400.00	3,394.34	3,307.48	3,189.20	12.20	17.60	30.89	800.67	-38.34	689.76	664.96	24.79	27.820		
3,500.00	3,494.09	3,404.56	3,281.72	12.58	18.20	30.72	829.77	-42.39	713.67	688.12	25.56	27.927		
3,600.00	3,593.84	3,501.64	3,374.24	12.95	18.79	30.56	858.88	-46.44	737.59	711.28	26.32	28.027		
3,700.00	3,693.59	3,601.29	3,466.77	13.32	19.40	30.41	887.98	-50.50	761.52	734.43	27.09	28.111		
3,800.00	3,793.34	3,704.21	3,559.29	13.70	20.03	30.27	917.09	-54.55	785.45	757.57	27.88	28.176		
3,900.00	3,893.09	3,807.13	3,651.81	14.07	20.66	30.14	946.20	-58.60	809.38	780.72	28.66	28.237		
4,000.00	3,992.84	3,889.95	3,744.33	14.44	21.16	30.02	975.30	-62.65	833.32	803.96	29.37	28.378		
4,100.00	4,092.59	3,987.02	3,836.86	14.82	21.76	29.90	1,004.41	-66.70	857.26	827.14	30.13	28.454		
4,200.00	4,192.34	4,084.10	3,929.38	15.19	22.35	29.79	1,033.51	-70.76	881.21	850.32	30.89	28.527		
4,300.00	4,292.09	4,181.18	4,021.90	15.57	22.94	29.68	1,062.62	-74.81	905.16	873.50	31.65	28.596		
4,400.00	4,391.84	4,278.25	4,114.42	15.94	23.54	29.58	1,091.72	-78.86	929.11	896.69	32.42	28.661		
4,500.00	4,491.59	4,375.33	4,206.95	16.31	24.13	29.49	1,120.83	-82.91	953.06	919.88	33.18	28.724		
4,600.00	4,591.34	4,472.41	4,299.47	16.69	24.72	29.40	1,149.94	-86.96	977.02	943.07	33.94	28.784		
4,700.00	4,691.09	4,569.49	4,391.99	17.06	25.32	29.31	1,179.04	-91.02	1,000.97	966.27	34.71	28.841		
4,800.00	4,790.84	4,666.56	4,484.51	17.44	25.91	29.23	1,208.15	-95.07	1,024.93	989.46	35.47	28.896		
4,900.00	4,890.59	4,763.64	4,577.04	17.81	26.51	29.16	1,237.25	-99.12	1,048.90	1,012.66	36.23	28.948		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program:													0-MWD OWSG	Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,990.34	4,860.72	4,669.56	18.19	27.10	29.08	1,266.36	-103.17	1,072.86	1,035.86	37.00	28.998			
5,100.00	5,090.09	4,957.79	4,762.08	18.56	27.69	29.01	1,295.47	-107.22	1,096.82	1,059.06	37.76	29.046			
5,200.00	5,189.84	5,054.87	4,854.60	18.93	28.29	28.94	1,324.57	-111.28	1,120.79	1,082.26	38.53	29.092			
5,300.00	5,289.59	5,151.95	4,947.13	19.31	28.88	28.88	1,353.68	-115.33	1,144.76	1,105.47	39.29	29.136			
5,400.00	5,389.34	5,249.03	5,039.65	19.68	29.48	28.81	1,382.78	-119.38	1,168.73	1,128.67	40.05	29.179			
5,500.00	5,489.09	5,346.10	5,132.17	20.06	30.07	28.76	1,411.89	-123.43	1,192.70	1,151.88	40.82	29.219			
5,600.00	5,588.84	5,443.18	5,224.69	20.43	30.67	28.70	1,441.00	-127.48	1,216.67	1,175.09	41.58	29.259			
5,700.00	5,688.59	5,540.26	5,317.22	20.81	31.26	28.64	1,470.10	-131.54	1,240.64	1,198.29	42.35	29.297			
5,800.00	5,788.34	5,637.34	5,409.74	21.18	31.86	28.59	1,499.21	-135.59	1,264.62	1,221.50	43.11	29.333			
5,900.00	5,888.09	5,734.41	5,502.26	21.56	32.45	28.54	1,528.31	-139.64	1,288.59	1,244.71	43.88	29.368			
6,000.00	5,987.84	5,831.49	5,594.78	21.93	33.04	28.49	1,557.42	-143.69	1,312.57	1,267.92	44.64	29.402			
6,100.00	6,087.59	5,928.57	5,687.31	22.30	33.64	28.44	1,586.52	-147.74	1,336.54	1,291.14	45.41	29.435			
6,200.00	6,187.34	6,025.64	5,779.83	22.68	34.23	28.39	1,615.63	-151.80	1,360.52	1,314.35	46.17	29.466			
6,300.00	6,287.09	6,122.72	5,872.35	23.05	34.83	28.35	1,644.74	-155.85	1,384.50	1,337.56	46.94	29.497			
6,400.00	6,386.84	6,219.80	5,964.87	23.43	35.42	28.31	1,673.84	-159.90	1,408.48	1,360.77	47.70	29.526			
6,500.00	6,486.59	6,316.88	6,057.40	23.80	36.02	28.27	1,702.95	-163.95	1,432.46	1,383.99	48.47	29.554			
6,600.00	6,586.34	6,413.95	6,149.92	24.18	36.61	28.23	1,732.05	-168.00	1,456.44	1,407.20	49.23	29.582			
6,700.00	6,686.09	6,511.03	6,242.44	24.55	37.21	28.19	1,761.16	-172.06	1,480.42	1,430.42	50.00	29.609			
6,800.00	6,785.84	6,608.11	6,334.96	24.93	37.80	28.15	1,790.27	-176.11	1,504.40	1,453.63	50.77	29.634			
6,900.00	6,885.59	6,705.18	6,427.49	25.30	38.40	28.11	1,819.37	-180.16	1,528.38	1,476.85	51.53	29.659			
7,000.00	6,985.34	6,802.26	6,520.01	25.68	39.00	28.07	1,848.47	-184.21	1,552.36	1,499.99	52.29	29.683			
7,098.48	7,083.57	7,078.84	6,788.76	26.04	40.43	28.08	1,912.88	-193.18	1,567.18	1,513.08	54.11	28.964			
7,100.00	7,085.09	7,082.14	6,792.00	26.05	40.45	28.09	1,913.49	-193.26	1,567.38	1,513.25	54.13	28.958			
7,200.00	7,184.95	7,300.07	7,007.37	26.42	41.35	28.21	1,946.16	-197.81	1,577.76	1,522.56	55.20	28.583			
7,299.99	7,284.91	7,520.13	7,226.75	26.77	42.03	28.25	1,962.60	-200.10	1,583.67	1,527.72	55.94	28.308			
7,301.08	7,286.00	7,301.08	7,189.50	26.77	41.40	0.12	1,960.74	-199.84	1,583.69	1,528.32	55.37	28.602			
7,331.08	7,316.00	7,588.82	7,295.42	26.88	42.20	0.10	1,964.31	-200.34	1,584.44	1,528.33	56.11	28.239			
7,350.00	7,334.92	7,630.65	7,337.25	26.94	42.30	89.87	1,964.55	-200.37	1,584.55	1,528.35	56.19	28.197			
7,367.95	7,352.85	7,646.26	7,352.85	27.00	42.33	89.90	1,964.55	-200.37	1,584.55	1,528.23	56.32	28.134			
7,400.00	7,384.76	7,678.16	7,384.74	27.12	42.40	89.99	1,964.55	-200.78	1,584.55	1,528.01	56.54	28.025			
7,403.61	7,388.34	7,681.75	7,388.34	27.13	42.41	90.00	1,964.55	-200.93	1,584.55	1,527.98	56.57	28.012			
7,450.00	7,434.07	7,728.13	7,434.54	27.30	42.51	90.14	1,964.57	-204.85	1,584.55	1,527.65	56.90	27.849			
7,500.00	7,482.49	7,778.47	7,484.15	27.49	42.63	90.28	1,964.61	-213.32	1,584.57	1,527.30	57.27	27.668			
7,550.00	7,529.64	7,829.18	7,533.17	27.69	42.76	90.43	1,964.66	-226.22	1,584.59	1,526.93	57.66	27.480			
7,600.00	7,575.16	7,880.26	7,581.21	27.90	42.89	90.57	1,964.74	-243.55	1,584.63	1,526.55	58.08	27.284			
7,650.00	7,618.71	7,931.72	7,627.84	28.11	43.03	90.71	1,964.83	-265.25	1,584.67	1,526.15	58.52	27.079			
7,700.00	7,659.96	7,983.53	7,672.64	28.34	43.18	90.85	1,964.95	-291.24	1,584.72	1,525.73	58.99	26.864			
7,750.00	7,698.59	8,035.71	7,715.20	28.59	43.33	90.98	1,965.08	-321.39	1,584.78	1,525.28	59.50	26.635			
7,800.00	7,734.31	8,088.23	7,755.09	28.86	43.49	91.10	1,965.23	-355.52	1,584.84	1,524.79	60.06	26.389			
7,850.00	7,766.84	8,141.08	7,791.91	29.16	43.66	91.21	1,965.40	-393.41	1,584.91	1,524.24	60.67	26.123			
7,900.00	7,795.95	8,194.24	7,825.26	29.49	43.84	91.31	1,965.58	-434.78	1,584.97	1,523.62	61.35	25.835			
7,950.00	7,821.40	8,247.68	7,854.79	29.86	44.04	91.41	1,965.78	-479.31	1,585.03	1,522.93	62.11	25.521			
8,000.00	7,843.01	8,301.38	7,880.15	30.28	44.26	91.49	1,965.98	-526.62	1,585.09	1,522.15	62.95	25.182			
8,050.00	7,860.61	8,355.31	7,901.05	30.74	44.50	91.56	1,966.20	-576.31	1,585.14	1,521.27	63.87	24.817			
8,100.00	7,874.06	8,409.43	7,917.24	31.25	44.76	91.61	1,966.43	-627.94	1,585.19	1,520.30	64.89	24.429			
8,150.00	7,883.26	8,463.71	7,928.51	31.80	45.05	91.66	1,966.66	-681.01	1,585.23	1,519.23	65.99	24.022			
8,200.00	7,888.15	8,518.09	7,934.72	32.39	45.37	91.69	1,966.90	-735.01	1,585.25	1,518.09	67.16	23.602			
8,231.14	7,889.00	8,552.01	7,935.98	32.77	45.59	91.70	1,967.05	-768.90	1,585.26	1,517.34	67.93	23.338			
8,300.00	7,889.00	8,621.23	7,936.00	33.66	46.08	91.70	1,967.35	-838.12	1,585.26	1,515.55	69.71	22.739			
8,400.00	7,889.00	8,721.23	7,936.00	35.10	46.88	91.70	1,967.79	-938.12	1,585.27	1,512.71	72.55	21.850			
8,500.00	7,889.00	8,821.23	7,936.00	36.68	47.82	91.70	1,968.23	-1,038.12	1,585.27	1,509.60	75.67	20.950			
8,600.00	7,889.00	8,921.23	7,935.99	38.38	48.90	91.70	1,968.67	-1,138.12	1,585.27	1,506.24	79.03	20.060			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	7,889.00	9,021.23	7,935.99	40.19	50.11	91.70	1,969.11	-1,238.12	1,585.28	1,502.67	82.60	19.192		
8,800.00	7,889.00	9,121.23	7,935.99	42.09	51.45	91.70	1,969.55	-1,338.12	1,585.28	1,498.92	86.36	18.356		
8,900.00	7,889.00	9,221.23	7,935.99	44.08	52.92	91.70	1,969.99	-1,438.12	1,585.28	1,495.00	90.29	17.559		
9,000.00	7,889.00	9,321.23	7,935.99	46.14	54.50	91.70	1,970.43	-1,538.12	1,585.29	1,490.93	94.35	16.802		
9,100.00	7,889.00	9,421.23	7,935.99	48.26	56.19	91.70	1,970.87	-1,638.11	1,585.29	1,486.74	98.54	16.087		
9,200.00	7,889.00	9,521.23	7,935.99	50.44	57.97	91.70	1,971.31	-1,738.11	1,585.29	1,482.44	102.85	15.414		
9,300.00	7,889.00	9,621.23	7,935.98	52.66	59.84	91.70	1,971.75	-1,838.11	1,585.29	1,478.05	107.25	14.782		
9,400.00	7,889.00	9,721.23	7,935.98	54.93	61.77	91.70	1,972.19	-1,938.11	1,585.30	1,473.57	111.73	14.188		
9,500.00	7,889.00	9,821.23	7,935.98	57.23	63.78	91.70	1,972.63	-2,038.11	1,585.30	1,469.01	116.29	13.632		
9,600.00	7,889.00	9,921.23	7,935.98	59.56	65.84	91.70	1,973.07	-2,138.11	1,585.30	1,464.38	120.92	13.110		
9,700.00	7,889.00	10,021.23	7,935.98	61.93	67.96	91.70	1,973.51	-2,238.11	1,585.31	1,459.70	125.61	12.621		
9,800.00	7,889.00	10,121.23	7,935.98	64.31	70.12	91.70	1,973.95	-2,338.11	1,585.31	1,454.96	130.35	12.162		
9,900.00	7,889.00	10,221.23	7,935.98	66.73	72.32	91.70	1,974.39	-2,438.11	1,585.31	1,450.18	135.14	11.731		
10,000.00	7,889.00	10,321.23	7,935.97	69.16	74.56	91.70	1,974.83	-2,538.11	1,585.32	1,445.35	139.97	11.326		
10,100.00	7,889.00	10,421.23	7,935.97	71.61	76.83	91.70	1,975.27	-2,638.11	1,585.32	1,440.48	144.84	10.945		
10,200.00	7,889.00	10,521.23	7,935.97	74.08	79.14	91.70	1,975.71	-2,738.10	1,585.32	1,435.58	149.74	10.587		
10,300.00	7,889.00	10,621.23	7,935.97	76.56	81.46	91.70	1,976.15	-2,838.10	1,585.33	1,430.65	154.68	10.249		
10,400.00	7,889.00	10,721.23	7,935.97	79.06	83.82	91.70	1,976.59	-2,938.10	1,585.33	1,425.69	159.64	9.931		
10,500.00	7,889.00	10,821.23	7,935.97	81.56	86.19	91.70	1,977.03	-3,038.10	1,585.33	1,420.70	164.63	9.630		
10,600.00	7,889.00	10,921.23	7,935.97	84.08	88.59	91.70	1,977.47	-3,138.10	1,585.34	1,415.69	169.65	9.345		
10,700.00	7,889.00	11,021.23	7,935.96	86.61	91.00	91.70	1,977.91	-3,238.10	1,585.34	1,410.66	174.68	9.076		
10,800.00	7,889.00	11,121.23	7,935.96	89.15	93.43	91.70	1,978.35	-3,338.10	1,585.34	1,405.61	179.74	8.820		
10,900.00	7,889.00	11,221.23	7,935.96	91.70	95.87	91.70	1,978.79	-3,438.10	1,585.34	1,400.54	184.81	8.578		
11,000.00	7,889.00	11,321.23	7,935.96	94.26	98.33	91.70	1,979.23	-3,538.10	1,585.35	1,395.45	189.90	8.348		
11,100.00	7,889.00	11,421.23	7,935.96	96.82	100.80	91.70	1,979.67	-3,638.10	1,585.35	1,390.35	195.00	8.130		
11,200.00	7,889.00	11,521.23	7,935.96	99.39	103.29	91.70	1,980.11	-3,738.09	1,585.35	1,385.23	200.12	7.922		
11,300.00	7,889.00	11,621.23	7,935.96	101.97	105.78	91.70	1,980.55	-3,838.09	1,585.36	1,380.10	205.26	7.724		
11,400.00	7,889.00	11,721.23	7,935.95	104.55	108.28	91.70	1,980.99	-3,938.09	1,585.36	1,374.96	210.40	7.535		
11,500.00	7,889.00	11,821.23	7,935.95	107.13	110.80	91.70	1,981.43	-4,038.09	1,585.36	1,369.81	215.56	7.355		
11,600.00	7,889.00	11,921.23	7,935.95	109.73	113.32	91.70	1,981.87	-4,138.09	1,585.37	1,364.64	220.72	7.183		
11,700.00	7,889.00	12,021.23	7,935.95	112.32	115.85	91.70	1,982.31	-4,238.09	1,585.37	1,359.47	225.90	7.018		
11,800.00	7,889.00	12,121.23	7,935.95	114.92	118.38	91.70	1,982.75	-4,338.09	1,585.37	1,354.29	231.09	6.860		
11,900.00	7,889.00	12,221.23	7,935.95	117.53	120.93	91.70	1,983.19	-4,438.09	1,585.38	1,349.09	236.28	6.710		
12,000.00	7,889.00	12,321.23	7,935.95	120.14	123.48	91.70	1,983.63	-4,538.09	1,585.38	1,343.90	241.48	6.565		
12,100.00	7,889.00	12,421.23	7,935.94	122.75	126.03	91.70	1,984.07	-4,638.09	1,585.38	1,338.69	246.69	6.427		
12,200.00	7,889.00	12,521.23	7,935.94	125.36	128.60	91.70	1,984.51	-4,738.08	1,585.38	1,333.47	251.91	6.293		
12,300.00	7,889.00	12,621.23	7,935.94	127.98	131.16	91.70	1,984.95	-4,838.08	1,585.39	1,328.25	257.13	6.166		
12,400.00	7,888.99	12,721.23	7,935.94	130.60	133.74	91.70	1,985.39	-4,938.08	1,585.39	1,323.03	262.36	6.043		
12,500.00	7,888.99	12,821.23	7,935.94	133.23	136.31	91.70	1,985.83	-5,038.08	1,585.39	1,317.80	267.60	5.925		
12,600.00	7,888.99	12,921.23	7,935.94	135.85	138.90	91.70	1,986.27	-5,138.08	1,585.40	1,312.56	272.84	5.811		
12,700.00	7,888.99	13,021.23	7,935.94	138.48	141.48	91.70	1,986.71	-5,238.08	1,585.40	1,307.31	278.09	5.701		
12,800.00	7,888.99	13,121.23	7,935.93	141.12	144.07	91.70	1,987.15	-5,338.08	1,585.40	1,302.07	283.34	5.595		
12,900.00	7,888.99	13,221.23	7,935.93	143.75	146.67	91.70	1,987.59	-5,438.08	1,585.41	1,296.81	288.59	5.494		
13,000.00	7,888.99	13,321.23	7,935.93	146.38	149.26	91.70	1,988.03	-5,538.08	1,585.41	1,291.56	293.85	5.395		
13,100.00	7,888.99	13,421.23	7,935.93	149.02	151.86	91.70	1,988.47	-5,638.08	1,585.41	1,286.30	299.12	5.300		
13,200.00	7,888.99	13,521.23	7,935.93	151.66	154.47	91.70	1,988.91	-5,738.08	1,585.42	1,281.03	304.38	5.209		
13,300.00	7,888.99	13,621.23	7,935.93	154.30	157.07	91.70	1,989.35	-5,838.07	1,585.42	1,275.76	309.66	5.120		
13,400.00	7,888.99	13,721.23	7,935.93	156.94	159.68	91.70	1,989.79	-5,938.07	1,585.42	1,270.49	314.93	5.034		
13,500.00	7,888.99	13,821.23	7,935.92	159.59	162.30	91.70	1,990.23	-6,038.07	1,585.43	1,265.21	320.21	4.951		
13,600.00	7,888.99	13,921.23	7,935.92	162.24	164.91	91.70	1,990.67	-6,138.07	1,585.43	1,259.94	325.49	4.871		
13,700.00	7,888.99	14,021.23	7,935.92	164.88	167.53	91.70	1,991.11	-6,238.07	1,585.43	1,254.65	330.78	4.793		
13,800.00	7,888.99	14,121.23	7,935.92	167.53	170.15	91.70	1,991.55	-6,338.07	1,585.43	1,249.37	336.07	4.718		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
13,900.00	7,888.99	14,221.23	7,935.92	170.18	172.77	91.70	1,991.99	-6,438.07	1,585.44	1,244.08	341.36	4.645			
14,000.00	7,888.99	14,321.23	7,935.92	172.83	175.39	91.70	1,992.43	-6,538.07	1,585.44	1,238.79	346.65	4.574			
14,100.00	7,888.99	14,421.23	7,935.92	175.48	178.02	91.70	1,992.87	-6,638.07	1,585.44	1,233.50	351.95	4.505			
14,200.00	7,888.99	14,521.23	7,935.91	178.14	180.65	91.70	1,993.31	-6,738.07	1,585.45	1,228.20	357.24	4.438			
14,300.00	7,888.99	14,621.23	7,935.91	180.79	183.28	91.70	1,993.75	-6,838.06	1,585.45	1,222.90	362.55	4.373			
14,400.00	7,888.99	14,721.23	7,935.91	183.45	185.91	91.70	1,994.19	-6,938.06	1,585.45	1,217.61	367.85	4.310			
14,500.00	7,888.99	14,821.23	7,935.91	186.10	188.54	91.70	1,994.63	-7,038.06	1,585.46	1,212.30	373.15	4.249			
14,600.00	7,888.99	14,921.23	7,935.91	188.76	191.18	91.70	1,995.07	-7,138.06	1,585.46	1,207.00	378.46	4.189			
14,700.00	7,888.99	15,021.23	7,935.91	191.42	193.81	91.70	1,995.51	-7,238.06	1,585.46	1,201.69	383.77	4.131			
14,800.00	7,888.99	15,121.23	7,935.91	194.08	196.45	91.70	1,995.95	-7,338.06	1,585.47	1,196.39	389.08	4.075			
14,900.00	7,888.99	15,221.23	7,935.90	196.74	199.09	91.70	1,996.39	-7,438.06	1,585.47	1,191.08	394.39	4.020			
15,000.00	7,888.99	15,321.23	7,935.90	199.40	201.73	91.70	1,996.83	-7,538.06	1,585.47	1,185.76	399.71	3.967			
15,100.00	7,888.99	15,421.23	7,935.90	202.06	204.37	91.70	1,997.27	-7,638.06	1,585.47	1,180.45	405.02	3.915			
15,200.00	7,888.99	15,521.23	7,935.90	204.72	207.01	91.70	1,997.71	-7,738.06	1,585.48	1,175.14	410.34	3.864			
15,300.00	7,888.99	15,621.23	7,935.90	207.39	209.66	91.70	1,998.15	-7,838.05	1,585.48	1,169.82	415.66	3.814			
15,400.00	7,888.99	15,721.23	7,935.90	210.05	212.30	91.70	1,998.59	-7,938.05	1,585.48	1,164.50	420.98	3.766			
15,500.00	7,888.99	15,821.23	7,935.90	212.71	214.95	91.70	1,999.03	-8,038.05	1,585.49	1,159.18	426.30	3.719			
15,600.00	7,888.99	15,921.23	7,935.89	215.38	217.60	91.70	1,999.47	-8,138.05	1,585.49	1,153.86	431.63	3.673			
15,700.00	7,888.99	16,021.23	7,935.89	218.05	220.25	91.70	1,999.91	-8,238.05	1,585.49	1,148.54	436.95	3.629			
15,800.00	7,888.99	16,121.23	7,935.89	220.71	222.90	91.70	2,000.35	-8,338.05	1,585.50	1,143.22	442.28	3.585			
15,900.00	7,888.99	16,221.23	7,935.89	223.38	225.55	91.70	2,000.79	-8,438.05	1,585.50	1,137.90	447.60	3.542			
16,000.00	7,888.99	16,321.23	7,935.89	226.05	228.20	91.70	2,001.23	-8,538.05	1,585.50	1,132.57	452.93	3.501			
16,100.00	7,888.99	16,421.23	7,935.89	228.71	230.85	91.69	2,001.67	-8,638.05	1,585.51	1,127.24	458.26	3.460			
16,200.00	7,888.99	16,521.23	7,935.89	231.38	233.51	91.69	2,002.11	-8,738.05	1,585.51	1,121.92	463.59	3.420			
16,300.00	7,888.99	16,621.23	7,935.88	234.05	236.16	91.69	2,002.55	-8,838.05	1,585.51	1,116.59	468.92	3.381			
16,400.00	7,888.99	16,721.23	7,935.88	236.72	238.82	91.69	2,002.99	-8,938.04	1,585.52	1,111.26	474.26	3.343			
16,500.00	7,888.99	16,821.23	7,935.88	239.39	241.47	91.69	2,003.42	-9,038.04	1,585.52	1,105.93	479.59	3.306			
16,600.00	7,888.99	16,921.23	7,935.88	242.06	244.13	91.69	2,003.86	-9,138.04	1,585.52	1,100.60	484.93	3.270			
16,700.00	7,888.99	17,021.23	7,935.88	244.73	246.79	91.69	2,004.30	-9,238.04	1,585.52	1,095.26	490.26	3.234			
16,800.00	7,888.99	17,121.23	7,935.88	247.40	249.44	91.69	2,004.74	-9,338.04	1,585.53	1,089.93	495.60	3.199			
16,900.00	7,888.99	17,221.23	7,935.88	250.07	252.10	91.69	2,005.18	-9,438.04	1,585.53	1,084.60	500.93	3.165			
17,000.00	7,888.99	17,321.23	7,935.87	252.75	254.76	91.69	2,005.62	-9,538.04	1,585.53	1,079.26	506.27	3.132			
17,100.00	7,888.99	17,421.23	7,935.87	255.42	257.42	91.69	2,006.06	-9,638.04	1,585.54	1,073.92	511.61	3.099			
17,200.00	7,888.99	17,521.23	7,935.87	258.09	260.08	91.69	2,006.50	-9,738.04	1,585.54	1,068.59	516.95	3.067			
17,300.00	7,888.99	17,621.23	7,935.87	260.76	262.74	91.69	2,006.94	-9,838.04	1,585.54	1,063.25	522.29	3.036			
17,400.00	7,888.99	17,721.23	7,935.87	263.44	265.41	91.69	2,007.38	-9,938.03	1,585.55	1,057.91	527.63	3.005			
17,500.00	7,888.99	17,821.23	7,935.87	266.11	268.07	91.69	2,007.82	-10,038.03	1,585.55	1,052.57	532.98	2.975			
17,600.00	7,888.99	17,921.23	7,935.87	268.78	270.73	91.69	2,008.26	-10,138.03	1,585.55	1,047.23	538.32	2.945			
17,700.00	7,888.99	18,021.23	7,935.86	271.46	273.39	91.69	2,008.70	-10,238.03	1,585.56	1,041.89	543.66	2.916			
17,800.00	7,888.99	18,121.23	7,935.86	274.13	276.06	91.69	2,009.14	-10,338.03	1,585.56	1,036.55	549.01	2.888			
17,900.00	7,888.99	18,234.93	7,935.99	276.81	279.09	91.70	2,009.34	-10,451.73	1,585.32	1,030.83	554.49	2.859			
17,917.28	7,889.00	18,239.20	7,936.00	277.27	279.20	91.70	2,009.32	-10,456.00	1,585.27	1,029.99	555.28	2.855 SF			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	143.44	143.44					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	143.44	143.44	143.17	0.27	533.513		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	143.44	143.44	142.45	0.99	145.504		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	143.44	143.44	141.73	1.70	84.239		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	143.44	143.44	141.02	2.42	59.279		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	143.44	143.44	140.30	3.14	45.730		
600.00	600.00	601.05	601.03	1.93	1.91	90.70	-1.74	143.05	143.07	139.23	3.84	37.257		
700.00	700.00	701.85	701.69	2.29	2.25	92.80	-6.94	141.90	142.08	137.55	4.54	31.325		
800.00	800.00	802.16	801.60	2.64	2.60	96.34	-15.54	140.00	140.87	135.62	5.24	26.861		
900.00	900.00	901.72	900.40	3.00	2.97	101.30	-27.46	137.36	140.08	134.11	5.97	23.468		
920.22	920.22	921.75	920.22	3.07	3.05	102.48	-30.26	136.74	140.05	133.93	6.12	22.884	CC	
1,000.00	1,000.00	1,000.32	997.78	3.36	3.35	107.61	-42.55	134.02	140.63	133.92	6.71	20.952	ES	
1,100.00	1,099.98	1,097.44	1,093.12	3.72	3.76	143.47	-60.61	130.03	145.02	137.55	7.47	19.420		
1,200.00	1,199.84	1,192.37	1,185.64	4.08	4.19	152.10	-81.29	125.45	156.28	148.06	8.22	19.012		
1,202.60	1,202.43	1,194.80	1,188.01	4.09	4.20	152.32	-81.86	125.32	156.68	148.44	8.24	19.016		
1,300.00	1,299.59	1,286.31	1,276.55	4.44	4.64	160.53	-104.42	120.33	174.04	165.09	8.96	19.434		
1,400.00	1,399.34	1,381.33	1,368.38	4.80	5.12	167.57	-128.26	115.06	195.34	185.66	9.68	20.170		
1,500.00	1,499.09	1,476.35	1,460.21	5.16	5.60	173.22	-152.10	109.78	219.02	208.61	10.40	21.052		
1,600.00	1,598.84	1,571.37	1,552.04	5.53	6.10	177.77	-175.95	104.51	244.38	233.26	11.12	21.981		
1,700.00	1,698.59	1,666.40	1,643.87	5.89	6.60	-178.52	-199.79	99.23	270.95	259.12	11.83	22.905		
1,800.00	1,798.34	1,761.42	1,735.70	6.26	7.11	-175.47	-223.63	93.95	298.41	285.87	12.54	23.795		
1,900.00	1,898.09	1,856.44	1,827.53	6.63	7.63	-172.93	-247.48	88.68	326.54	313.29	13.25	24.638		
2,000.00	1,997.84	1,951.46	1,919.36	7.00	8.14	-170.79	-271.32	83.40	355.17	341.20	13.97	25.430		
2,100.00	2,097.59	2,046.48	2,011.19	7.37	8.66	-168.97	-295.16	78.13	384.20	369.52	14.68	26.168		
2,200.00	2,197.34	2,141.50	2,103.02	7.74	9.18	-167.40	-319.01	72.85	413.54	398.14	15.40	26.856		
2,300.00	2,297.09	2,236.52	2,194.85	8.11	9.71	-166.04	-342.85	67.58	443.12	427.01	16.12	27.495		
2,400.00	2,396.84	2,331.54	2,286.68	8.48	10.23	-164.84	-366.69	62.30	472.91	456.08	16.84	28.089		
2,500.00	2,496.59	2,426.56	2,378.51	8.85	10.76	-163.79	-390.54	57.03	502.87	485.31	17.56	28.642		
2,600.00	2,596.34	2,521.59	2,470.34	9.22	11.29	-162.85	-414.38	51.75	532.96	514.68	18.28	29.158		
2,700.00	2,696.09	2,616.61	2,562.17	9.59	11.82	-162.02	-438.22	46.47	563.17	544.17	19.00	29.638		
2,800.00	2,795.84	2,711.63	2,654.00	9.97	12.35	-161.27	-462.07	41.20	593.48	573.75	19.73	30.086		
2,900.00	2,895.59	2,806.65	2,745.83	10.34	12.88	-160.59	-485.91	35.92	623.87	603.42	20.45	30.506		
3,000.00	2,995.34	2,901.67	2,837.66	10.71	13.41	-159.98	-509.76	30.65	654.33	633.16	21.18	30.899		
3,100.00	3,095.09	2,996.69	2,929.49	11.08	13.94	-159.41	-533.60	25.37	684.86	662.96	21.90	31.267		
3,200.00	3,194.84	3,108.29	3,021.32	11.46	14.57	-158.90	-557.44	20.10	715.44	692.74	22.70	31.517		
3,300.00	3,294.59	3,186.73	3,113.15	11.83	15.01	-158.43	-581.29	14.82	746.07	722.71	23.36	31.939		
3,400.00	3,394.34	3,281.76	3,204.98	12.20	15.54	-158.00	-605.13	9.54	776.74	752.65	24.09	32.247		
3,500.00	3,494.09	3,376.78	3,296.81	12.58	16.07	-157.59	-628.97	4.27	807.45	782.63	24.82	32.536		
3,600.00	3,593.84	3,471.80	3,388.64	12.95	16.61	-157.22	-652.82	-1.01	838.19	812.65	25.55	32.810		
3,700.00	3,693.59	3,566.82	3,480.46	13.32	17.14	-156.88	-676.66	-6.28	868.97	842.69	26.28	33.070		
3,800.00	3,793.34	3,661.84	3,572.29	13.70	17.68	-156.56	-700.50	-11.56	899.76	872.76	27.01	33.315		
3,900.00	3,893.09	3,756.86	3,664.12	14.07	18.21	-156.25	-724.35	-16.83	930.59	902.85	27.74	33.548		
4,000.00	3,992.84	3,851.88	3,755.95	14.44	18.75	-155.97	-748.19	-22.11	961.43	932.96	28.47	33.769		
4,100.00	4,092.59	3,946.90	3,847.78	14.82	19.29	-155.71	-772.03	-27.39	992.30	963.09	29.20	33.980		
4,200.00	4,192.34	4,041.92	3,939.61	15.19	19.82	-155.46	-795.88	-32.66	1,023.18	993.24	29.93	34.180		
4,300.00	4,292.09	4,136.95	4,031.44	15.57	20.36	-155.23	-819.72	-37.94	1,054.08	1,023.41	30.67	34.371		
4,400.00	4,391.84	4,231.97	4,123.27	15.94	20.89	-155.01	-843.56	-43.21	1,084.99	1,053.59	31.40	34.553		
4,500.00	4,491.59	4,326.99	4,215.10	16.31	21.43	-154.80	-867.41	-48.49	1,115.92	1,083.79	32.13	34.727		
4,600.00	4,591.34	4,422.01	4,306.93	16.69	21.97	-154.60	-891.25	-53.76	1,146.86	1,113.99	32.87	34.893		
4,700.00	4,691.09	4,517.03	4,398.76	17.06	22.51	-154.42	-915.09	-59.04	1,177.81	1,144.21	33.60	35.052		
4,800.00	4,790.84	4,612.05	4,490.59	17.44	23.04	-154.24	-938.94	-64.32	1,208.77	1,174.44	34.34	35.204		
4,900.00	4,890.59	4,707.07	4,582.42	17.81	23.58	-154.07	-962.78	-69.59	1,239.75	1,204.68	35.07	35.350		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,990.34	4,802.09	4,674.25	18.19	24.12	-153.91	-986.62	-74.87	1,270.73	1,234.92	35.81	35.490		
5,100.00	5,090.09	4,902.89	4,766.08	18.56	24.69	-153.76	-1,010.47	-80.14	1,301.72	1,265.15	36.56	35.601		
5,200.00	5,189.84	5,007.86	4,857.91	18.93	25.28	-153.61	-1,034.31	-85.42	1,332.72	1,295.38	37.34	35.691		
5,300.00	5,289.59	5,087.16	4,949.74	19.31	25.73	-153.47	-1,058.15	-90.69	1,363.72	1,325.71	38.01	35.877		
5,400.00	5,389.34	5,182.18	5,041.57	19.68	26.27	-153.34	-1,082.00	-95.97	1,394.73	1,355.99	38.75	35.996		
5,500.00	5,489.09	5,277.20	5,133.40	20.06	26.80	-153.21	-1,105.84	-101.25	1,425.75	1,386.27	39.48	36.111		
5,600.00	5,588.84	5,372.22	5,225.23	20.43	27.34	-153.09	-1,129.69	-106.52	1,456.78	1,416.56	40.22	36.221		
5,700.00	5,688.59	5,467.24	5,317.06	20.81	27.88	-152.98	-1,153.53	-111.80	1,487.81	1,446.85	40.96	36.327		
5,800.00	5,788.34	5,562.26	5,408.89	21.18	28.42	-152.87	-1,177.37	-117.07	1,518.84	1,477.15	41.69	36.430		
5,900.00	5,888.09	5,657.28	5,500.72	21.56	28.96	-152.76	-1,201.22	-122.35	1,549.88	1,507.46	42.43	36.529		
6,000.00	5,987.84	5,752.31	5,592.55	21.93	29.49	-152.66	-1,225.06	-127.62	1,580.93	1,537.76	43.17	36.624		
6,100.00	6,087.59	5,847.33	5,684.38	22.30	30.03	-152.56	-1,248.90	-132.90	1,611.98	1,568.08	43.90	36.717		
6,200.00	6,187.34	5,942.35	5,776.21	22.68	30.57	-152.46	-1,272.75	-138.17	1,643.03	1,598.39	44.64	36.806		
6,300.00	6,287.09	6,037.37	5,868.03	23.05	31.11	-152.37	-1,296.59	-143.45	1,674.09	1,628.71	45.38	36.892		
6,400.00	6,386.84	6,132.39	5,959.86	23.43	31.65	-152.28	-1,320.43	-148.73	1,705.15	1,659.04	46.12	36.975		
6,500.00	6,486.59	6,227.41	6,051.69	23.80	32.19	-152.20	-1,344.28	-154.00	1,736.22	1,689.37	46.85	37.056		
6,600.00	6,586.34	6,322.43	6,143.52	24.18	32.72	-152.11	-1,368.12	-159.28	1,767.29	1,719.70	47.59	37.134		
6,700.00	6,686.09	6,417.45	6,235.35	24.55	33.26	-152.03	-1,391.96	-164.55	1,798.36	1,750.03	48.33	37.209		
6,800.00	6,785.84	6,512.47	6,327.18	24.93	33.80	-151.96	-1,415.81	-169.83	1,829.44	1,780.37	49.07	37.282		
6,900.00	6,885.59	6,607.50	6,419.01	25.30	34.34	-151.88	-1,439.65	-175.10	1,860.51	1,810.71	49.81	37.353		
7,000.00	6,985.34	6,702.52	6,510.84	25.68	34.88	-151.81	-1,463.49	-180.38	1,891.59	1,841.05	50.55	37.422		
7,098.48	7,083.57	6,804.96	6,609.85	26.04	35.46	-151.74	-1,489.17	-186.06	1,922.19	1,870.85	51.34	37.439		
7,100.00	7,085.09	6,809.16	6,613.92	26.05	35.48	-151.74	-1,490.20	-186.29	1,922.66	1,871.29	51.37	37.425		
7,200.00	7,184.95	7,094.05	6,892.78	26.42	36.90	-151.81	-1,546.53	-198.75	1,947.01	1,893.73	53.27	36.547		
7,299.99	7,284.91	7,391.23	7,188.27	26.77	38.01	-151.80	-1,576.18	-205.31	1,958.57	1,903.86	54.71	35.801		
7,301.08	7,286.00	7,394.50	7,191.54	26.77	38.02	-179.94	-1,576.34	-205.35	1,958.62	1,903.90	54.72	35.794		
7,331.08	7,316.00	7,484.79	7,281.78	26.88	38.28	-179.92	-1,579.30	-206.01	1,959.61	1,904.57	55.04	35.603		
7,350.00	7,334.92	7,541.80	7,338.79	26.94	38.42	-90.18	-1,579.75	-206.10	1,959.75	1,904.54	55.21	35.495		
7,350.95	7,335.87	7,350.95	7,323.84	26.94	37.97	-90.16	-1,579.70	-206.09	1,959.74	1,905.07	54.67	35.847		
7,400.00	7,384.76	7,588.14	7,385.12	27.12	38.53	-90.27	-1,579.75	-206.53	1,959.77	1,904.23	55.54	35.285		
7,450.00	7,434.07	7,638.99	7,435.78	27.30	38.65	-90.39	-1,579.73	-210.74	1,959.79	1,903.89	55.90	35.058		
7,500.00	7,482.49	7,690.21	7,486.22	27.49	38.79	-90.51	-1,579.69	-219.51	1,959.82	1,903.54	56.28	34.822		
7,550.00	7,529.64	7,741.80	7,536.04	27.69	38.94	-90.62	-1,579.64	-232.86	1,959.86	1,903.18	56.68	34.577		
7,600.00	7,575.16	7,793.76	7,584.79	27.90	39.10	-90.73	-1,579.56	-250.77	1,959.90	1,902.80	57.10	34.322		
7,650.00	7,618.71	7,846.07	7,632.03	28.11	39.26	-90.83	-1,579.46	-273.19	1,959.95	1,902.40	57.55	34.057		
7,700.00	7,659.96	7,898.72	7,677.32	28.34	39.43	-90.92	-1,579.34	-300.01	1,960.00	1,901.98	58.03	33.777		
7,750.00	7,698.59	7,951.70	7,720.21	28.59	39.61	-91.01	-1,579.21	-331.07	1,960.06	1,901.51	58.55	33.479		
7,800.00	7,734.31	8,004.98	7,760.27	28.86	39.80	-91.09	-1,579.06	-366.18	1,960.11	1,901.00	59.11	33.160		
7,850.00	7,766.84	8,058.53	7,797.07	29.16	39.99	-91.17	-1,578.89	-405.06	1,960.16	1,900.42	59.74	32.811		
7,900.00	7,795.95	8,112.34	7,830.23	29.49	40.20	-91.23	-1,578.70	-447.40	1,960.20	1,899.76	60.44	32.432		
7,950.00	7,821.40	8,166.36	7,859.38	29.86	40.42	-91.28	-1,578.51	-492.86	1,960.24	1,899.02	61.22	32.019		
8,000.00	7,843.01	8,220.55	7,884.20	30.28	40.67	-91.32	-1,578.30	-541.02	1,960.28	1,898.18	62.09	31.570		
8,050.00	7,860.61	8,274.89	7,904.40	30.74	40.93	-91.35	-1,578.08	-591.43	1,960.30	1,897.24	63.06	31.087		
8,100.00	7,874.06	8,329.32	7,919.76	31.25	41.22	-91.37	-1,577.85	-643.63	1,960.32	1,896.20	64.12	30.574		
8,150.00	7,883.26	8,383.81	7,930.10	31.80	41.55	-91.38	-1,577.62	-697.11	1,960.33	1,895.06	65.27	30.035		
8,200.00	7,888.15	8,438.31	7,935.33	32.39	41.90	-91.38	-1,577.38	-751.34	1,960.33	1,893.83	66.50	29.480		
8,230.65	7,889.00	8,471.24	7,936.00	32.76	42.14	-91.37	-1,577.24	-784.26	1,960.32	1,893.04	67.28	29.137		
8,231.14	7,889.00	8,471.74	7,936.00	32.77	42.14	-91.37	-1,577.24	-784.75	1,960.32	1,893.03	67.29	29.131		
8,300.00	7,889.00	8,540.60	7,936.00	33.66	42.68	-91.37	-1,576.94	-853.61	1,960.32	1,891.19	69.13	28.356		
8,400.00	7,889.00	8,640.60	7,936.00	35.10	43.59	-91.37	-1,576.50	-953.61	1,960.32	1,888.28	72.04	27.212		
8,500.00	7,889.00	8,740.60	7,936.00	36.68	44.65	-91.37	-1,576.07	-1,053.61	1,960.33	1,885.11	75.22	26.061		
8,600.00	7,889.00	8,840.60	7,935.99	38.38	45.86	-91.37	-1,575.63	-1,153.61	1,960.33	1,881.69	78.64	24.927		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	7,889.00	8,940.60	7,935.99	40.19	47.22	-91.37	-1,575.20	-1,253.61	1,960.33	1,878.06	82.27	23.827		
8,800.00	7,889.00	9,040.60	7,935.99	42.09	48.73	-91.37	-1,574.76	-1,353.61	1,960.33	1,874.24	86.09	22.771		
8,900.00	7,889.00	9,140.60	7,935.99	44.08	50.35	-91.37	-1,574.33	-1,453.60	1,960.34	1,870.27	90.06	21.766		
9,000.00	7,889.00	9,240.60	7,935.99	46.14	52.09	-91.37	-1,573.90	-1,553.60	1,960.34	1,866.16	94.18	20.815		
9,100.00	7,889.00	9,340.60	7,935.98	48.26	53.92	-91.37	-1,573.46	-1,653.60	1,960.34	1,861.92	98.42	19.919		
9,200.00	7,889.00	9,440.60	7,935.98	50.44	55.85	-91.37	-1,573.03	-1,753.60	1,960.34	1,857.58	102.76	19.076		
9,300.00	7,889.00	9,540.60	7,935.98	52.66	57.84	-91.37	-1,572.59	-1,853.60	1,960.34	1,853.14	107.20	18.286		
9,400.00	7,889.00	9,640.60	7,935.98	54.93	59.91	-91.37	-1,572.16	-1,953.60	1,960.35	1,848.62	111.72	17.546		
9,500.00	7,889.00	9,740.60	7,935.98	57.23	62.02	-91.37	-1,571.72	-2,053.60	1,960.35	1,844.03	116.32	16.853		
9,600.00	7,889.00	9,840.60	7,935.98	59.56	64.19	-91.37	-1,571.29	-2,153.60	1,960.35	1,839.37	120.98	16.204		
9,700.00	7,889.00	9,940.60	7,935.97	61.93	66.41	-91.37	-1,570.85	-2,253.60	1,960.35	1,834.65	125.70	15.596		
9,800.00	7,889.00	10,040.60	7,935.97	64.31	68.66	-91.37	-1,570.42	-2,353.60	1,960.35	1,829.89	130.47	15.026		
9,900.00	7,889.00	10,140.60	7,935.97	66.73	70.95	-91.37	-1,569.98	-2,453.60	1,960.36	1,825.07	135.28	14.491		
10,000.00	7,889.00	10,240.60	7,935.97	69.16	73.27	-91.37	-1,569.55	-2,553.59	1,960.36	1,820.22	140.14	13.989		
10,100.00	7,889.00	10,340.60	7,935.97	71.61	75.62	-91.37	-1,569.11	-2,653.59	1,960.36	1,815.33	145.03	13.517		
10,200.00	7,889.00	10,440.60	7,935.96	74.08	77.99	-91.37	-1,568.68	-2,753.59	1,960.36	1,810.40	149.96	13.073		
10,300.00	7,889.00	10,540.60	7,935.96	76.56	80.38	-91.37	-1,568.24	-2,853.59	1,960.36	1,805.45	154.92	12.654		
10,400.00	7,889.00	10,640.60	7,935.96	79.06	82.80	-91.37	-1,567.81	-2,953.59	1,960.37	1,800.47	159.90	12.260		
10,500.00	7,889.00	10,740.60	7,935.96	81.56	85.23	-91.37	-1,567.38	-3,053.59	1,960.37	1,795.46	164.91	11.887		
10,600.00	7,889.00	10,840.60	7,935.96	84.08	87.68	-91.37	-1,566.94	-3,153.59	1,960.37	1,790.43	169.94	11.535		
10,700.00	7,889.00	10,940.60	7,935.96	86.61	90.14	-91.37	-1,566.51	-3,253.59	1,960.37	1,785.38	175.00	11.202		
10,800.00	7,889.00	11,040.60	7,935.95	89.15	92.62	-91.37	-1,566.07	-3,353.59	1,960.37	1,780.31	180.07	10.887		
10,900.00	7,889.00	11,140.60	7,935.95	91.70	95.11	-91.37	-1,565.64	-3,453.59	1,960.38	1,775.22	185.16	10.588		
11,000.00	7,889.00	11,240.60	7,935.95	94.26	97.61	-91.37	-1,565.20	-3,553.59	1,960.38	1,770.11	190.26	10.303		
11,100.00	7,889.00	11,340.60	7,935.95	96.82	100.12	-91.37	-1,564.77	-3,653.58	1,960.38	1,765.00	195.38	10.033		
11,200.00	7,889.00	11,440.60	7,935.95	99.39	102.64	-91.37	-1,564.33	-3,753.58	1,960.38	1,759.86	200.52	9.777		
11,300.00	7,889.00	11,540.60	7,935.94	101.97	105.17	-91.37	-1,563.90	-3,853.58	1,960.38	1,754.72	205.67	9.532		
11,400.00	7,889.00	11,640.60	7,935.94	104.55	107.71	-91.37	-1,563.46	-3,953.58	1,960.39	1,749.56	210.82	9.299		
11,500.00	7,889.00	11,740.60	7,935.94	107.13	110.26	-91.37	-1,563.03	-4,053.58	1,960.39	1,744.39	215.99	9.076		
11,600.00	7,889.00	11,840.60	7,935.94	109.73	112.81	-91.37	-1,562.59	-4,153.58	1,960.39	1,739.22	221.17	8.864		
11,700.00	7,889.00	11,940.60	7,935.94	112.32	115.38	-91.37	-1,562.16	-4,253.58	1,960.39	1,734.03	226.36	8.660		
11,800.00	7,889.00	12,040.60	7,935.94	114.92	117.94	-91.37	-1,561.73	-4,353.58	1,960.39	1,728.83	231.56	8.466		
11,900.00	7,889.00	12,140.60	7,935.93	117.53	120.51	-91.37	-1,561.29	-4,453.58	1,960.40	1,723.63	236.77	8.280		
12,000.00	7,889.00	12,240.60	7,935.93	120.14	123.09	-91.37	-1,560.86	-4,553.58	1,960.40	1,718.42	241.98	8.101		
12,100.00	7,889.00	12,340.60	7,935.93	122.75	125.68	-91.37	-1,560.42	-4,653.57	1,960.40	1,713.20	247.20	7.930		
12,200.00	7,889.00	12,440.60	7,935.93	125.36	128.26	-91.37	-1,559.99	-4,753.57	1,960.40	1,707.97	252.43	7.766		
12,300.00	7,889.00	12,540.60	7,935.93	127.98	130.85	-91.37	-1,559.55	-4,853.57	1,960.41	1,702.74	257.66	7.608		
12,400.00	7,888.99	12,640.60	7,935.92	130.60	133.45	-91.37	-1,559.12	-4,953.57	1,960.41	1,697.50	262.90	7.457		
12,500.00	7,888.99	12,740.60	7,935.92	133.23	136.05	-91.37	-1,558.68	-5,053.57	1,960.41	1,692.26	268.15	7.311		
12,600.00	7,888.99	12,840.60	7,935.92	135.85	138.66	-91.37	-1,558.25	-5,153.57	1,960.41	1,687.01	273.40	7.170		
12,700.00	7,888.99	12,940.60	7,935.92	138.48	141.26	-91.37	-1,557.81	-5,253.57	1,960.41	1,681.76	278.66	7.035		
12,800.00	7,888.99	13,040.60	7,935.92	141.12	143.87	-91.37	-1,557.38	-5,353.57	1,960.42	1,676.50	283.92	6.905		
12,900.00	7,888.99	13,140.60	7,935.92	143.75	146.49	-91.37	-1,556.94	-5,453.57	1,960.42	1,671.23	289.18	6.779		
13,000.00	7,888.99	13,240.60	7,935.91	146.38	149.10	-91.37	-1,556.51	-5,553.57	1,960.42	1,665.97	294.45	6.658		
13,100.00	7,888.99	13,340.60	7,935.91	149.02	151.72	-91.37	-1,556.08	-5,653.57	1,960.42	1,660.70	299.73	6.541		
13,200.00	7,888.99	13,440.60	7,935.91	151.66	154.34	-91.37	-1,555.64	-5,753.56	1,960.42	1,655.42	305.00	6.428		
13,300.00	7,888.99	13,540.60	7,935.91	154.30	156.97	-91.37	-1,555.21	-5,853.56	1,960.43	1,650.14	310.28	6.318		
13,400.00	7,888.99	13,640.60	7,935.91	156.94	159.60	-91.37	-1,554.77	-5,953.56	1,960.43	1,644.86	315.57	6.212		
13,500.00	7,888.99	13,740.60	7,935.90	159.59	162.22	-91.37	-1,554.34	-6,053.56	1,960.43	1,639.57	320.86	6.110		
13,600.00	7,888.99	13,840.60	7,935.90	162.24	164.86	-91.37	-1,553.90	-6,153.56	1,960.43	1,634.29	326.15	6.011		
13,700.00	7,888.99	13,940.60	7,935.90	164.88	167.49	-91.37	-1,553.47	-6,253.56	1,960.43	1,629.00	331.44	5.915		
13,800.00	7,888.99	14,040.60	7,935.90	167.53	170.12	-91.37	-1,553.03	-6,353.56	1,960.44	1,623.70	336.74	5.822		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
13,900.00	7,888.99	14,140.60	7,935.90	170.18	172.76	-91.37	-1,552.60	-6,453.56	1,960.44	1,618.40	342.03	5.732			
14,000.00	7,888.99	14,240.60	7,935.90	172.83	175.40	-91.37	-1,552.16	-6,553.56	1,960.44	1,613.10	347.34	5.644			
14,100.00	7,888.99	14,340.60	7,935.89	175.48	178.04	-91.37	-1,551.73	-6,653.56	1,960.44	1,607.80	352.64	5.559			
14,200.00	7,888.99	14,440.60	7,935.89	178.14	180.68	-91.37	-1,551.29	-6,753.55	1,960.44	1,602.50	357.95	5.477			
14,300.00	7,888.99	14,540.60	7,935.89	180.79	183.33	-91.37	-1,550.86	-6,853.55	1,960.45	1,597.19	363.25	5.397			
14,400.00	7,888.99	14,640.60	7,935.89	183.45	185.97	-91.37	-1,550.43	-6,953.55	1,960.45	1,591.88	368.57	5.319			
14,500.00	7,888.99	14,740.60	7,935.89	186.10	188.62	-91.37	-1,549.99	-7,053.55	1,960.45	1,586.57	373.88	5.244			
14,600.00	7,888.99	14,840.60	7,935.88	188.76	191.26	-91.37	-1,549.56	-7,153.55	1,960.45	1,581.26	379.19	5.170			
14,700.00	7,888.99	14,940.60	7,935.88	191.42	193.91	-91.37	-1,549.12	-7,253.55	1,960.45	1,575.95	384.51	5.099			
14,800.00	7,888.99	15,040.60	7,935.88	194.08	196.56	-91.37	-1,548.69	-7,353.55	1,960.46	1,570.63	389.83	5.029			
14,900.00	7,888.99	15,140.60	7,935.88	196.74	199.22	-91.37	-1,548.25	-7,453.55	1,960.46	1,565.31	395.15	4.961			
15,000.00	7,888.99	15,240.60	7,935.88	199.40	201.87	-91.37	-1,547.82	-7,553.55	1,960.46	1,559.99	400.47	4.895			
15,100.00	7,888.99	15,340.60	7,935.88	202.06	204.52	-91.37	-1,547.38	-7,653.55	1,960.46	1,554.67	405.79	4.831			
15,200.00	7,888.99	15,440.60	7,935.87	204.72	207.18	-91.37	-1,546.95	-7,753.55	1,960.47	1,549.35	411.12	4.769			
15,300.00	7,888.99	15,540.60	7,935.87	207.39	209.83	-91.37	-1,546.51	-7,853.54	1,960.47	1,544.02	416.44	4.708			
15,400.00	7,888.99	15,640.60	7,935.87	210.05	212.49	-91.37	-1,546.08	-7,953.54	1,960.47	1,538.70	421.77	4.648			
15,500.00	7,888.99	15,740.60	7,935.87	212.71	215.15	-91.37	-1,545.64	-8,053.54	1,960.47	1,533.37	427.10	4.590			
15,600.00	7,888.99	15,840.60	7,935.87	215.38	217.80	-91.37	-1,545.21	-8,153.54	1,960.47	1,528.04	432.43	4.534			
15,700.00	7,888.99	15,940.60	7,935.86	218.05	220.46	-91.37	-1,544.78	-8,253.54	1,960.48	1,522.71	437.76	4.478			
15,800.00	7,888.99	16,040.60	7,935.86	220.71	223.12	-91.37	-1,544.34	-8,353.54	1,960.48	1,517.38	443.09	4.425			
15,900.00	7,888.99	16,140.60	7,935.86	223.38	225.78	-91.37	-1,543.91	-8,453.54	1,960.48	1,512.05	448.43	4.372			
16,000.00	7,888.99	16,240.60	7,935.86	226.05	228.45	-91.37	-1,543.47	-8,553.54	1,960.48	1,506.72	453.76	4.320			
16,100.00	7,888.99	16,340.60	7,935.86	228.71	231.11	-91.37	-1,543.04	-8,653.54	1,960.48	1,501.38	459.10	4.270			
16,200.00	7,888.99	16,440.60	7,935.86	231.38	233.77	-91.37	-1,542.60	-8,753.54	1,960.49	1,496.05	464.44	4.221			
16,300.00	7,888.99	16,540.60	7,935.85	234.05	236.44	-91.37	-1,542.17	-8,853.54	1,960.49	1,490.71	469.77	4.173			
16,400.00	7,888.99	16,640.60	7,935.85	236.72	239.10	-91.37	-1,541.73	-8,953.53	1,960.49	1,485.38	475.11	4.126			
16,500.00	7,888.99	16,740.60	7,935.85	239.39	241.77	-91.37	-1,541.30	-9,053.53	1,960.49	1,480.04	480.45	4.080			
16,600.00	7,888.99	16,840.60	7,935.85	242.06	244.43	-91.37	-1,540.86	-9,153.53	1,960.49	1,474.70	485.80	4.036			
16,700.00	7,888.99	16,940.60	7,935.85	244.73	247.10	-91.37	-1,540.43	-9,253.53	1,960.50	1,469.36	491.14	3.992			
16,800.00	7,888.99	17,040.60	7,935.84	247.40	249.76	-91.37	-1,539.99	-9,353.53	1,960.50	1,464.02	496.48	3.949			
16,900.00	7,888.99	17,140.60	7,935.84	250.07	252.43	-91.37	-1,539.56	-9,453.53	1,960.50	1,458.68	501.82	3.907			
17,000.00	7,888.99	17,240.60	7,935.84	252.75	255.10	-91.37	-1,539.13	-9,553.53	1,960.50	1,453.33	507.17	3.866			
17,100.00	7,888.99	17,340.60	7,935.84	255.42	257.77	-91.37	-1,538.69	-9,653.53	1,960.50	1,447.99	512.51	3.825			
17,200.00	7,888.99	17,440.60	7,935.84	258.09	260.44	-91.37	-1,538.26	-9,753.53	1,960.51	1,442.65	517.86	3.786			
17,300.00	7,888.99	17,540.60	7,935.84	260.76	263.11	-91.37	-1,537.82	-9,853.53	1,960.51	1,437.30	523.21	3.747			
17,400.00	7,888.99	17,640.60	7,935.83	263.44	265.78	-91.37	-1,537.39	-9,953.52	1,960.51	1,431.96	528.55	3.709			
17,500.00	7,888.99	17,740.60	7,935.83	266.11	268.45	-91.37	-1,536.95	-10,053.52	1,960.51	1,426.61	533.90	3.672			
17,600.00	7,888.99	17,840.60	7,935.83	268.78	271.12	-91.37	-1,536.52	-10,153.52	1,960.51	1,421.26	539.25	3.636			
17,700.00	7,888.99	17,940.60	7,935.83	271.46	273.79	-91.37	-1,536.08	-10,253.52	1,960.52	1,415.92	544.60	3.600			
17,800.00	7,888.99	18,040.60	7,935.83	274.13	276.46	-91.37	-1,535.65	-10,353.52	1,960.52	1,410.57	549.95	3.565			
17,900.00	7,888.99	18,146.04	7,935.98	276.81	279.28	-91.37	-1,535.06	-10,458.97	1,960.40	1,404.99	555.41	3.530			
17,915.68	7,888.99	18,153.00	7,936.00	277.23	279.47	-91.37	-1,535.01	-10,465.92	1,960.38	1,404.31	556.07	3.525			
17,917.28	7,889.00	18,153.00	7,936.00	277.27	279.47	-91.37	-1,535.01	-10,465.92	1,960.33	1,404.21	556.12	3.525 SF			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	163.12	163.12					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	163.12	163.12	162.86	0.27	606.740		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	163.12	163.12	162.14	0.99	165.475		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	163.12	163.12	161.42	1.70	95.801		
400.00	400.00	401.02	401.00	1.21	1.20	90.62	-1.75	162.79	162.81	160.40	2.41	67.632		
500.00	500.00	501.79	501.63	1.57	1.55	92.47	-6.98	161.81	161.97	158.86	3.11	52.083		
600.00	600.00	602.07	601.51	1.93	1.90	95.58	-15.64	160.18	160.95	157.12	3.83	42.033		
700.00	700.00	701.61	700.29	2.29	2.28	99.92	-27.62	157.93	160.32	155.76	4.57	35.101		
714.68	714.68	716.14	714.68	2.34	2.34	100.66	-29.65	157.54	160.31	155.63	4.68	34.260 CC		
800.00	800.00	800.18	797.64	2.64	2.68	105.43	-42.80	155.07	160.88	155.56	5.33	30.205 ES		
900.00	900.00	897.57	893.24	3.00	3.11	111.92	-61.03	151.64	163.60	157.49	6.10	26.801		
1,000.00	1,000.00	993.57	986.82	3.36	3.56	119.07	-82.11	147.67	169.48	162.59	6.89	24.599		
1,100.00	1,099.98	1,087.64	1,077.76	3.72	4.04	154.70	-105.74	143.22	180.97	173.31	7.66	23.615		
1,200.00	1,199.84	1,179.01	1,165.28	4.08	4.54	162.06	-131.49	138.38	200.52	192.12	8.40	23.858		
1,202.60	1,202.43	1,181.34	1,167.51	4.09	4.55	162.24	-132.18	138.25	201.14	192.72	8.42	23.879		
1,300.00	1,299.59	1,270.38	1,252.08	4.44	5.07	168.84	-159.53	133.10	226.57	217.45	9.12	24.834		
1,400.00	1,399.34	1,363.32	1,340.29	4.80	5.62	174.40	-188.30	127.68	255.43	245.60	9.84	25.962		
1,500.00	1,499.09	1,456.25	1,428.49	5.16	6.19	178.85	-217.08	122.27	286.16	275.61	10.55	27.130		
1,600.00	1,598.84	1,549.19	1,516.69	5.53	6.76	-177.54	-245.85	116.85	318.20	306.95	11.25	28.275		
1,700.00	1,698.59	1,642.12	1,604.90	5.89	7.33	-174.58	-274.62	111.44	351.20	339.24	11.96	29.364		
1,800.00	1,798.34	1,735.06	1,693.10	6.26	7.91	-172.12	-303.40	106.02	384.92	372.25	12.67	30.384		
1,900.00	1,898.09	1,828.00	1,781.30	6.63	8.49	-170.06	-332.17	100.61	419.17	405.79	13.38	31.332		
2,000.00	1,997.84	1,920.93	1,869.51	7.00	9.08	-168.30	-360.94	95.19	453.84	439.75	14.09	32.209		
2,100.00	2,097.59	2,013.87	1,957.71	7.37	9.67	-166.78	-389.72	89.78	488.84	474.04	14.80	33.020		
2,200.00	2,197.34	2,106.80	2,045.91	7.74	10.25	-165.47	-418.49	84.36	524.11	508.59	15.52	33.768		
2,300.00	2,297.09	2,200.26	2,134.11	8.11	10.85	-164.32	-447.27	78.95	559.59	543.35	16.24	34.454		
2,400.00	2,396.84	2,307.33	2,222.32	8.48	11.53	-163.31	-476.04	73.53	595.24	578.21	17.03	34.962		
2,500.00	2,496.59	2,385.61	2,310.52	8.85	12.03	-162.41	-504.81	68.12	631.04	613.36	17.68	35.690		
2,600.00	2,596.34	2,478.54	2,398.72	9.22	12.62	-161.61	-533.59	62.70	666.96	648.56	18.40	36.239		
2,700.00	2,696.09	2,571.48	2,486.93	9.59	13.21	-160.88	-562.36	57.28	702.98	683.85	19.13	36.750		
2,800.00	2,795.84	2,664.42	2,575.13	9.97	13.81	-160.23	-591.13	51.87	739.10	719.24	19.85	37.225		
2,900.00	2,895.59	2,757.35	2,663.33	10.34	14.40	-159.64	-619.91	46.45	775.28	754.70	20.58	37.669		
3,000.00	2,995.34	2,850.29	2,751.54	10.71	15.00	-159.10	-648.68	41.04	811.54	790.23	21.31	38.084		
3,100.00	3,095.09	2,943.22	2,839.74	11.08	15.60	-158.61	-677.45	35.62	847.85	825.81	22.04	38.472		
3,200.00	3,194.84	3,036.16	2,927.94	11.46	16.19	-158.16	-706.23	30.21	884.21	861.44	22.77	38.836		
3,300.00	3,294.59	3,129.09	3,016.15	11.83	16.79	-157.74	-735.00	24.79	920.62	897.12	23.50	39.178		
3,400.00	3,394.34	3,222.03	3,104.35	12.20	17.39	-157.35	-763.77	19.38	957.06	932.83	24.23	39.500		
3,500.00	3,494.09	3,314.96	3,192.55	12.58	17.98	-157.00	-792.55	13.96	993.54	968.58	24.96	39.804		
3,600.00	3,593.84	3,407.90	3,280.75	12.95	18.58	-156.67	-821.32	8.55	1,030.06	1,004.36	25.69	40.090		
3,700.00	3,693.59	3,500.84	3,368.96	13.32	19.18	-156.36	-850.09	3.13	1,066.60	1,040.17	26.43	40.360		
3,800.00	3,793.34	3,606.23	3,457.16	13.70	19.86	-156.07	-878.87	-2.28	1,103.16	1,075.95	27.21	40.535		
3,900.00	3,893.09	3,686.71	3,545.36	14.07	20.38	-155.80	-907.64	-7.70	1,139.75	1,111.85	27.89	40.859		
4,000.00	3,992.84	3,779.64	3,633.57	14.44	20.97	-155.54	-936.42	-13.12	1,176.36	1,147.73	28.63	41.089		
4,100.00	4,092.59	3,872.58	3,721.77	14.82	21.57	-155.30	-965.19	-18.53	1,212.98	1,183.62	29.36	41.308		
4,200.00	4,192.34	3,965.51	3,809.97	15.19	22.17	-155.08	-993.96	-23.95	1,249.63	1,219.53	30.10	41.516		
4,300.00	4,292.09	4,058.45	3,898.18	15.57	22.77	-154.87	-1,022.74	-29.36	1,286.29	1,255.45	30.84	41.714		
4,400.00	4,391.84	4,151.38	3,986.38	15.94	23.37	-154.67	-1,051.51	-34.78	1,322.96	1,291.39	31.57	41.903		
4,500.00	4,491.59	4,244.32	4,074.58	16.31	23.97	-154.48	-1,080.28	-40.19	1,359.65	1,327.34	32.31	42.083		
4,600.00	4,591.34	4,337.25	4,162.78	16.69	24.57	-154.30	-1,109.06	-45.61	1,396.35	1,363.30	33.05	42.255		
4,700.00	4,691.09	4,430.19	4,250.99	17.06	25.17	-154.13	-1,137.83	-51.02	1,433.06	1,399.28	33.78	42.419		
4,800.00	4,790.84	4,523.13	4,339.19	17.44	25.77	-153.97	-1,166.60	-56.44	1,469.78	1,435.26	34.52	42.576		
4,900.00	4,890.59	4,616.06	4,427.39	17.81	26.37	-153.81	-1,195.38	-61.85	1,506.51	1,471.25	35.26	42.726		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,990.34	4,709.00	4,515.60	18.19	26.97	-153.67	-1,224.15	-67.27	1,543.25	1,507.26	36.00	42.870		
5,100.00	5,090.09	4,801.93	4,603.80	18.56	27.57	-153.53	-1,252.92	-72.68	1,580.00	1,543.26	36.74	43.009		
5,200.00	5,189.84	4,905.13	4,692.00	18.93	28.23	-153.40	-1,281.70	-78.10	1,616.76	1,579.24	37.52	43.090		
5,300.00	5,289.59	4,987.80	4,780.21	19.31	28.77	-153.27	-1,310.47	-83.52	1,653.52	1,615.31	38.22	43.268		
5,400.00	5,389.34	5,080.74	4,868.41	19.68	29.37	-153.15	-1,339.24	-88.93	1,690.29	1,651.34	38.96	43.391		
5,500.00	5,489.09	5,173.67	4,956.61	20.06	29.97	-153.03	-1,368.02	-94.35	1,727.07	1,687.37	39.70	43.508		
5,600.00	5,588.84	5,266.61	5,044.81	20.43	30.57	-152.92	-1,396.79	-99.76	1,763.85	1,723.41	40.44	43.621		
5,700.00	5,688.59	5,359.55	5,133.02	20.81	31.17	-152.81	-1,425.57	-105.18	1,800.64	1,759.46	41.18	43.730		
5,800.00	5,788.34	5,452.48	5,221.22	21.18	31.77	-152.71	-1,454.34	-110.59	1,837.43	1,795.51	41.92	43.835		
5,900.00	5,888.09	5,545.42	5,309.42	21.56	32.37	-152.61	-1,483.11	-116.01	1,874.23	1,831.57	42.66	43.936		
6,000.00	5,987.84	5,638.35	5,397.63	21.93	32.97	-152.51	-1,511.89	-121.42	1,911.03	1,867.63	43.40	44.034		
6,100.00	6,087.59	5,731.29	5,485.83	22.30	33.57	-152.42	-1,540.66	-126.84	1,947.84	1,903.70	44.14	44.128		
6,200.00	6,187.34	5,824.22	5,574.03	22.68	34.17	-152.33	-1,569.43	-132.25	1,984.65	1,939.77	44.88	44.218		
6,300.00	6,287.09	5,917.16	5,662.24	23.05	34.77	-152.25	-1,598.21	-137.67	2,021.47	1,975.84	45.63	44.306		
6,400.00	6,386.84	6,010.09	5,750.44	23.43	35.37	-152.17	-1,626.98	-143.08	2,058.29	2,011.92	46.37	44.391		
6,500.00	6,486.59	6,103.03	5,838.64	23.80	35.97	-152.09	-1,655.75	-148.50	2,095.11	2,048.00	47.11	44.472		
6,600.00	6,586.34	6,204.03	5,926.84	24.18	36.62	-152.01	-1,684.53	-153.92	2,131.93	2,084.05	47.89	44.519		
6,700.00	6,686.09	6,288.90	6,015.05	24.55	37.17	-151.94	-1,713.30	-159.33	2,168.76	2,120.17	48.60	44.628		
6,800.00	6,785.84	6,381.84	6,103.25	24.93	37.77	-151.87	-1,742.07	-164.75	2,205.59	2,156.25	49.34	44.702		
6,900.00	6,885.59	6,474.77	6,191.45	25.30	38.37	-151.80	-1,770.85	-170.16	2,242.43	2,192.35	50.08	44.774		
7,000.00	6,985.34	6,567.71	6,279.66	25.68	38.97	-151.73	-1,799.62	-175.58	2,279.27	2,228.44	50.83	44.843		
7,098.48	7,083.57	6,659.23	6,366.51	26.04	39.57	-151.67	-1,827.96	-180.91	2,315.54	2,263.98	51.56	44.909		
7,100.00	7,085.09	6,660.64	6,367.86	26.05	39.57	-151.67	-1,828.39	-180.99	2,316.11	2,264.53	51.57	44.910		
7,200.00	7,184.95	7,073.71	6,767.33	26.42	41.88	-151.73	-1,930.32	-200.18	2,346.22	2,291.94	54.28	43.222		
7,299.99	7,284.91	7,589.56	7,280.30	26.77	43.63	-151.72	-1,976.85	-208.93	2,356.86	2,300.79	56.06	42.039		
7,301.08	7,286.00	7,595.26	7,286.00	26.77	43.64	-179.86	-1,976.85	-208.93	2,356.86	2,300.79	56.07	42.032		
7,331.08	7,316.00	7,625.26	7,316.00	26.88	43.70	-179.86	-1,976.85	-208.93	2,356.86	2,300.60	56.26	41.893		
7,350.00	7,334.92	7,644.34	7,335.08	26.94	43.74	-90.11	-1,976.85	-209.25	2,356.86	2,300.48	56.38	41.803		
7,400.00	7,384.76	7,694.76	7,385.33	27.12	43.85	-90.11	-1,976.83	-213.14	2,356.86	2,300.15	56.71	41.557		
7,450.00	7,434.07	7,745.17	7,435.04	27.30	43.97	-90.11	-1,976.80	-221.43	2,356.86	2,299.79	57.07	41.299		
7,500.00	7,482.49	7,795.58	7,483.82	27.49	44.10	-90.11	-1,976.74	-234.06	2,356.86	2,299.42	57.44	41.031		
7,550.00	7,529.64	7,845.97	7,531.29	27.69	44.23	-90.10	-1,976.67	-250.92	2,356.86	2,299.02	57.84	40.751		
7,600.00	7,575.16	7,896.35	7,577.09	27.90	44.37	-90.10	-1,976.57	-271.87	2,356.85	2,298.60	58.25	40.460		
7,650.00	7,618.71	7,946.71	7,620.85	28.11	44.51	-90.09	-1,976.46	-296.76	2,356.85	2,298.16	58.70	40.154		
7,700.00	7,659.96	7,997.05	7,662.25	28.34	44.66	-90.09	-1,976.34	-325.38	2,356.85	2,297.68	59.17	39.831		
7,750.00	7,698.59	8,047.37	7,700.96	28.59	44.82	-90.08	-1,976.19	-357.51	2,356.85	2,297.16	59.69	39.485		
7,800.00	7,734.31	8,097.67	7,736.68	28.86	44.98	-90.08	-1,976.04	-392.89	2,356.84	2,296.59	60.26	39.113		
7,850.00	7,766.84	8,147.94	7,769.15	29.16	45.15	-90.07	-1,975.87	-431.24	2,356.84	2,295.96	60.89	38.709		
7,900.00	7,795.95	8,198.18	7,798.12	29.49	45.33	-90.06	-1,975.69	-472.27	2,356.84	2,295.25	61.59	38.270		
7,950.00	7,821.40	8,248.39	7,823.37	29.86	45.52	-90.05	-1,975.49	-515.65	2,356.84	2,294.47	62.36	37.793		
8,000.00	7,843.01	8,298.57	7,844.71	30.28	45.72	-90.04	-1,975.29	-561.04	2,356.83	2,293.61	63.22	37.278		
8,050.00	7,860.61	8,348.71	7,862.00	30.74	45.93	-90.03	-1,975.08	-608.09	2,356.83	2,292.66	64.17	36.727		
8,100.00	7,874.06	8,398.82	7,875.09	31.25	46.17	-90.02	-1,974.87	-656.44	2,356.83	2,291.62	65.21	36.144		
8,150.00	7,883.26	8,448.89	7,883.91	31.80	46.42	-90.02	-1,974.65	-705.72	2,356.82	2,290.50	66.32	35.535		
8,200.00	7,888.15	8,498.93	7,888.39	32.39	46.69	-90.01	-1,974.43	-755.54	2,356.82	2,289.31	67.51	34.909		
8,231.14	7,889.00	8,530.07	7,889.00	32.77	46.88	-90.00	-1,974.29	-786.67	2,356.82	2,288.53	68.29	34.514		
8,300.00	7,889.00	8,601.07	7,889.00	33.66	47.33	-90.00	-1,973.99	-855.53	2,356.81	2,286.69	70.12	33.610		
8,400.00	7,889.00	8,701.08	7,889.00	35.10	48.07	-90.00	-1,973.54	-955.52	2,356.81	2,283.80	73.01	32.280		
8,500.00	7,889.00	8,801.08	7,889.00	36.68	48.94	-90.00	-1,973.10	-1,055.52	2,356.80	2,280.63	76.17	30.940		
8,600.00	7,889.00	8,901.08	7,889.00	38.38	49.93	-90.00	-1,972.66	-1,155.52	2,356.80	2,277.22	79.57	29.618		
8,700.00	7,889.00	9,001.09	7,888.99	40.19	51.06	-90.00	-1,972.22	-1,255.51	2,356.79	2,273.61	83.18	28.333		
8,800.00	7,889.00	9,101.09	7,888.99	42.09	52.33	-90.00	-1,971.78	-1,355.51	2,356.78	2,269.81	86.98	27.097		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,889.00	9,201.09	7,888.99	44.08	53.73	-90.00	-1,971.33	-1,455.50	2,356.78	2,265.85	90.93	25.918		
9,000.00	7,889.00	9,301.10	7,888.99	46.14	55.25	-90.00	-1,970.89	-1,555.50	2,356.77	2,261.75	95.03	24.802		
9,100.00	7,889.00	9,401.10	7,888.99	48.26	56.88	-90.00	-1,970.45	-1,655.49	2,356.77	2,257.53	99.24	23.747		
9,200.00	7,889.00	9,501.10	7,888.99	50.44	58.62	-90.00	-1,970.01	-1,755.49	2,356.76	2,253.20	103.57	22.756		
9,300.00	7,889.00	9,601.11	7,888.99	52.66	60.45	-90.00	-1,969.57	-1,855.49	2,356.76	2,248.77	107.99	21.824		
9,400.00	7,889.00	9,701.11	7,888.99	54.93	62.36	-90.00	-1,969.12	-1,955.48	2,356.75	2,244.26	112.49	20.950		
9,500.00	7,889.00	9,801.11	7,888.99	57.23	64.34	-90.00	-1,968.68	-2,055.48	2,356.75	2,239.68	117.07	20.130		
9,600.00	7,889.00	9,901.11	7,888.99	59.56	66.39	-90.00	-1,968.24	-2,155.47	2,356.75	2,235.03	121.72	19.362		
9,700.00	7,889.00	10,001.12	7,888.98	61.93	68.49	-90.00	-1,967.80	-2,255.47	2,356.74	2,230.32	126.42	18.642		
9,800.00	7,889.00	10,101.12	7,888.98	64.31	70.65	-90.00	-1,967.36	-2,355.46	2,356.74	2,225.56	131.18	17.966		
9,900.00	7,889.00	10,201.12	7,888.98	66.73	72.84	-90.00	-1,966.92	-2,455.46	2,356.73	2,220.75	135.98	17.332		
10,000.00	7,889.00	10,301.13	7,888.98	69.16	75.08	-90.00	-1,966.48	-2,555.46	2,356.73	2,215.91	140.82	16.735		
10,100.00	7,889.00	10,401.13	7,888.98	71.61	77.35	-90.00	-1,966.04	-2,655.45	2,356.73	2,211.02	145.71	16.175		
10,200.00	7,889.00	10,501.13	7,888.98	74.08	79.65	-90.00	-1,965.60	-2,755.45	2,356.72	2,206.10	150.62	15.647		
10,300.00	7,889.00	10,601.14	7,888.98	76.56	81.98	-90.00	-1,965.16	-2,855.44	2,356.72	2,201.15	155.57	15.149		
10,400.00	7,889.00	10,701.14	7,888.98	79.06	84.34	-90.00	-1,964.72	-2,955.44	2,356.72	2,196.17	160.54	14.680		
10,500.00	7,889.00	10,801.14	7,888.98	81.56	86.72	-90.00	-1,964.28	-3,055.43	2,356.71	2,191.17	165.54	14.236		
10,600.00	7,889.00	10,901.15	7,888.98	84.08	89.12	-90.00	-1,963.84	-3,155.43	2,356.71	2,186.14	170.57	13.817		
10,700.00	7,889.00	11,001.15	7,888.98	86.61	91.54	-90.00	-1,963.40	-3,255.43	2,356.71	2,181.09	175.61	13.420		
10,800.00	7,889.00	11,101.15	7,888.98	89.15	93.97	-90.00	-1,962.96	-3,355.42	2,356.70	2,176.03	180.68	13.044		
10,900.00	7,889.00	11,201.16	7,888.98	91.70	96.42	-90.00	-1,962.52	-3,455.42	2,356.70	2,170.94	185.76	12.687		
11,000.00	7,889.00	11,301.16	7,888.98	94.26	98.88	-90.00	-1,962.08	-3,555.41	2,356.70	2,165.84	190.86	12.348		
11,100.00	7,889.00	11,401.16	7,888.98	96.82	101.36	-90.00	-1,961.64	-3,655.41	2,356.70	2,160.72	195.97	12.026		
11,200.00	7,889.00	11,501.17	7,888.98	99.39	103.85	-90.00	-1,961.20	-3,755.40	2,356.69	2,155.59	201.10	11.719		
11,300.00	7,889.00	11,601.17	7,888.97	101.97	106.35	-90.00	-1,960.76	-3,855.40	2,356.69	2,150.45	206.24	11.427		
11,400.00	7,889.00	11,701.17	7,888.97	104.55	108.86	-90.00	-1,960.33	-3,955.40	2,356.69	2,145.29	211.40	11.148		
11,500.00	7,889.00	11,801.18	7,888.97	107.13	111.38	-90.00	-1,959.89	-4,055.39	2,356.69	2,140.13	216.56	10.882		
11,600.00	7,889.00	11,901.18	7,888.97	109.73	113.91	-90.00	-1,959.45	-4,155.39	2,356.69	2,134.95	221.74	10.628		
11,700.00	7,889.00	12,001.18	7,888.97	112.32	116.44	-90.00	-1,959.01	-4,255.38	2,356.69	2,129.77	226.92	10.386		
11,800.00	7,889.00	12,101.19	7,888.97	114.92	118.99	-90.00	-1,958.57	-4,355.38	2,356.68	2,124.57	232.11	10.153		
11,900.00	7,889.00	12,201.19	7,888.97	117.53	121.54	-90.00	-1,958.14	-4,455.37	2,356.68	2,119.37	237.32	9.931		
12,000.00	7,889.00	12,301.19	7,888.97	120.14	124.10	-90.00	-1,957.70	-4,555.37	2,356.68	2,114.16	242.53	9.717		
12,100.00	7,889.00	12,401.20	7,888.97	122.75	126.66	-90.00	-1,957.26	-4,655.37	2,356.68	2,108.94	247.74	9.513		
12,200.00	7,889.00	12,501.20	7,888.97	125.36	129.23	-90.00	-1,956.82	-4,755.36	2,356.68	2,103.71	252.97	9.316		
12,300.00	7,889.00	12,601.20	7,888.97	127.98	131.80	-90.00	-1,956.39	-4,855.36	2,356.68	2,098.48	258.20	9.127		
12,400.00	7,888.99	12,701.21	7,888.97	130.60	134.38	-90.00	-1,955.95	-4,955.35	2,356.68	2,093.25	263.43	8.946		
12,500.00	7,888.99	12,801.21	7,888.97	133.23	136.96	-90.00	-1,955.51	-5,055.35	2,356.68	2,088.00	268.68	8.771		
12,600.00	7,888.99	12,901.21	7,888.97	135.85	139.55	-90.00	-1,955.07	-5,155.34	2,356.68	2,082.75	273.93	8.603		
12,700.00	7,888.99	13,001.22	7,888.97	138.48	142.14	-90.00	-1,954.64	-5,255.34	2,356.68	2,077.50	279.18	8.441		
12,711.20	7,888.99	13,009.99	7,888.97	138.78	142.37	-90.00	-1,954.59	-5,266.55	2,356.68	2,076.98	279.70	8.426		
12,800.00	7,888.99	13,101.22	7,888.97	141.12	144.74	-90.00	-1,954.20	-5,355.34	2,356.68	2,072.24	284.44	8.285		
12,900.00	7,888.99	13,201.22	7,888.97	143.75	147.34	-90.00	-1,953.76	-5,455.33	2,356.68	2,066.98	289.70	8.135		
13,000.00	7,888.99	13,301.23	7,888.97	146.38	149.94	-90.00	-1,953.33	-5,555.33	2,356.68	2,061.71	294.97	7.990		
13,100.00	7,888.99	13,401.23	7,888.97	149.02	152.55	-90.00	-1,952.89	-5,655.32	2,356.68	2,056.44	300.24	7.849		
13,200.00	7,888.99	13,501.23	7,888.97	151.66	155.16	-90.00	-1,952.46	-5,755.32	2,356.68	2,051.17	305.51	7.714		
13,300.00	7,888.99	13,601.24	7,888.97	154.30	157.77	-90.00	-1,952.02	-5,855.31	2,356.68	2,045.89	310.79	7.583		
13,400.00	7,888.99	13,701.24	7,888.97	156.94	160.39	-90.00	-1,951.58	-5,955.31	2,356.68	2,040.61	316.07	7.456		
13,500.00	7,888.99	13,801.24	7,888.97	159.59	163.01	-90.00	-1,951.15	-6,055.31	2,356.68	2,035.33	321.36	7.333		
13,600.00	7,888.99	13,901.25	7,888.97	162.24	165.63	-90.00	-1,950.71	-6,155.30	2,356.68	2,030.04	326.65	7.215		
13,700.00	7,888.99	14,001.25	7,888.97	164.88	168.25	-90.00	-1,950.28	-6,255.30	2,356.69	2,024.75	331.94	7.100		
13,800.00	7,888.99	14,101.25	7,888.97	167.53	170.87	-90.00	-1,949.84	-6,355.29	2,356.69	2,019.45	337.23	6.988		
13,900.00	7,888.99	14,201.26	7,888.97	170.18	173.50	-90.00	-1,949.41	-6,455.29	2,356.69	2,014.16	342.53	6.880		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,888.99	14,301.26	7,888.97	172.83	176.13	-90.00	-1,948.97	-6,555.29	2,356.69	2,008.86	347.83	6.775		
14,100.00	7,888.99	14,401.26	7,888.97	175.48	178.76	-90.00	-1,948.54	-6,655.28	2,356.69	2,003.56	353.13	6.674		
14,200.00	7,888.99	14,501.27	7,888.97	178.14	181.40	-90.00	-1,948.10	-6,755.28	2,356.70	1,998.26	358.44	6.575		
14,300.00	7,888.99	14,601.27	7,888.97	180.79	184.03	-90.00	-1,947.67	-6,855.27	2,356.70	1,992.95	363.75	6.479		
14,400.00	7,888.99	14,701.27	7,888.97	183.45	186.67	-90.00	-1,947.23	-6,955.27	2,356.70	1,987.64	369.06	6.386		
14,500.00	7,888.99	14,801.28	7,888.97	186.10	189.31	-90.00	-1,946.80	-7,055.26	2,356.70	1,982.33	374.37	6.295		
14,600.00	7,888.99	14,901.28	7,888.97	188.76	191.95	-90.00	-1,946.37	-7,155.26	2,356.70	1,977.02	379.68	6.207		
14,700.00	7,888.99	15,001.28	7,888.97	191.42	194.59	-90.00	-1,945.93	-7,255.26	2,356.71	1,971.71	385.00	6.121		
14,800.00	7,888.99	15,101.29	7,888.97	194.08	197.23	-90.00	-1,945.50	-7,355.25	2,356.71	1,966.40	390.31	6.038		
14,900.00	7,888.99	15,201.29	7,888.97	196.74	199.88	-90.00	-1,945.06	-7,455.25	2,356.71	1,961.08	395.63	5.957		
15,000.00	7,888.99	15,301.29	7,888.98	199.40	202.52	-90.00	-1,944.63	-7,555.24	2,356.72	1,955.76	400.95	5.878		
15,100.00	7,888.99	15,401.30	7,888.98	202.06	205.17	-90.00	-1,944.20	-7,655.24	2,356.72	1,950.44	406.28	5.801		
15,200.00	7,888.99	15,501.30	7,888.98	204.72	207.82	-90.00	-1,943.76	-7,755.23	2,356.72	1,945.12	411.60	5.726		
15,300.00	7,888.99	15,601.30	7,888.98	207.39	210.47	-90.00	-1,943.33	-7,855.23	2,356.73	1,939.80	416.93	5.653		
15,400.00	7,888.99	15,701.31	7,888.98	210.05	213.12	-90.00	-1,942.90	-7,955.23	2,356.73	1,934.48	422.25	5.581		
15,500.00	7,888.99	15,801.31	7,888.98	212.71	215.77	-90.00	-1,942.46	-8,055.22	2,356.73	1,929.15	427.58	5.512		
15,600.00	7,888.99	15,901.31	7,888.98	215.38	218.42	-90.00	-1,942.03	-8,155.22	2,356.74	1,923.83	432.91	5.444		
15,700.00	7,888.99	16,001.32	7,888.98	218.05	221.08	-90.00	-1,941.60	-8,255.21	2,356.74	1,918.50	438.24	5.378		
15,800.00	7,888.99	16,101.32	7,888.98	220.71	223.73	-90.00	-1,941.17	-8,355.21	2,356.75	1,913.17	443.57	5.313		
15,900.00	7,888.99	16,201.32	7,888.98	223.38	226.39	-90.00	-1,940.73	-8,455.20	2,356.75	1,907.84	448.91	5.250		
16,000.00	7,888.99	16,301.33	7,888.98	226.05	229.04	-90.00	-1,940.30	-8,555.20	2,356.76	1,902.51	454.24	5.188		
16,100.00	7,888.99	16,401.33	7,888.98	228.71	231.70	-90.00	-1,939.87	-8,655.20	2,356.76	1,897.18	459.58	5.128		
16,200.00	7,888.99	16,501.33	7,888.98	231.38	234.36	-90.00	-1,939.44	-8,755.19	2,356.77	1,891.85	464.92	5.069		
16,300.00	7,888.99	16,601.34	7,888.98	234.05	237.02	-90.00	-1,939.01	-8,855.19	2,356.77	1,886.52	470.25	5.012		
16,400.00	7,888.99	16,701.34	7,888.98	236.72	239.68	-90.00	-1,938.58	-8,955.18	2,356.78	1,881.18	475.59	4.955		
16,500.00	7,888.99	16,801.34	7,888.99	239.39	242.34	-90.00	-1,938.14	-9,055.18	2,356.78	1,875.85	480.93	4.900		
16,600.00	7,888.99	16,901.35	7,888.99	242.06	245.00	-90.00	-1,937.71	-9,155.17	2,356.79	1,870.51	486.27	4.847		
16,700.00	7,888.99	17,001.35	7,888.99	244.73	247.66	-90.00	-1,937.28	-9,255.17	2,356.79	1,865.18	491.62	4.794		
16,800.00	7,888.99	17,101.35	7,888.99	247.40	250.32	-90.00	-1,936.85	-9,355.17	2,356.80	1,859.84	496.96	4.742		
16,900.00	7,888.99	17,201.36	7,888.99	250.07	252.99	-90.00	-1,936.42	-9,455.16	2,356.80	1,854.50	502.30	4.692		
17,000.00	7,888.99	17,301.36	7,888.99	252.75	255.65	-90.00	-1,935.99	-9,555.16	2,356.81	1,849.16	507.65	4.643		
17,100.00	7,888.99	17,401.36	7,888.99	255.42	258.32	-90.00	-1,935.56	-9,655.15	2,356.82	1,843.82	512.99	4.594		
17,200.00	7,888.99	17,501.37	7,888.99	258.09	260.98	-90.00	-1,935.13	-9,755.15	2,356.82	1,838.48	518.34	4.547		
17,300.00	7,888.99	17,601.37	7,888.99	260.76	263.65	-90.00	-1,934.70	-9,855.15	2,356.83	1,833.14	523.68	4.500		
17,400.00	7,888.99	17,701.37	7,888.99	263.44	266.31	-90.00	-1,934.27	-9,955.14	2,356.83	1,827.80	529.03	4.455		
17,500.00	7,888.99	17,801.38	7,889.00	266.11	268.98	-90.00	-1,933.84	-10,055.14	2,356.84	1,822.46	534.38	4.410		
17,600.00	7,888.99	17,901.38	7,889.00	268.78	271.65	-90.00	-1,933.41	-10,155.13	2,356.85	1,817.12	539.73	4.367		
17,700.00	7,888.99	18,001.38	7,889.00	271.46	274.32	-90.00	-1,932.98	-10,255.13	2,356.86	1,811.78	545.08	4.324		
17,800.00	7,888.99	18,101.39	7,889.00	274.13	276.98	-90.00	-1,932.55	-10,355.12	2,356.86	1,806.43	550.43	4.282		
17,900.00	7,888.99	18,198.61	7,889.00	276.81	279.58	-90.00	-1,932.12	-10,455.12	2,356.87	1,801.08	555.71	4.241		
17,916.00	7,888.99	18,212.39	7,889.00	277.24	279.95	-90.00	-1,932.06	-10,468.90	2,356.87	1,800.36	556.52	4.235		
17,917.28	7,889.00	18,212.39	7,889.00	277.27	279.95	-90.00	-1,932.06	-10,468.90	2,356.82	1,800.26	556.56	4.235 SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	180.00	180.00					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	180.00	180.00	179.73	0.27	669.506		
200.00	200.00	200.99	200.97	0.49	0.49	90.56	-1.76	179.71	179.72	178.74	0.98	183.687		
300.00	300.00	301.73	301.57	0.85	0.85	92.24	-7.00	178.84	178.99	177.29	1.70	105.401		
400.00	400.00	401.98	401.42	1.21	1.23	95.05	-15.69	177.41	178.11	175.67	2.44	73.109		
500.00	500.00	501.49	500.17	1.57	1.63	98.98	-27.71	175.43	177.60	174.41	3.19	55.600		
508.75	508.75	510.15	508.75	1.60	1.66	99.37	-28.92	175.23	177.60	174.33	3.26	54.432	CC	
600.00	600.00	600.03	597.49	1.93	2.05	103.95	-42.95	172.91	178.18	174.21	3.97	44.834	ES	
700.00	700.00	697.39	693.07	2.29	2.50	109.82	-61.23	169.89	180.72	175.95	4.77	37.850		
800.00	800.00	793.37	786.62	2.64	2.97	116.34	-82.39	166.40	186.16	180.58	5.59	33.326		
900.00	900.00	887.79	877.90	3.00	3.48	123.17	-106.20	162.47	195.36	188.96	6.39	30.561		
1,000.00	1,000.00	980.49	966.69	3.36	4.01	129.95	-132.45	158.14	208.95	201.78	7.17	29.123		
1,100.00	1,099.98	1,070.86	1,052.39	3.72	4.56	164.47	-160.77	153.47	228.94	221.02	7.92	28.902		
1,200.00	1,199.84	1,158.14	1,134.24	4.08	5.13	170.29	-190.63	148.54	257.06	248.43	8.62	29.807		
1,202.60	1,202.43	1,160.37	1,136.32	4.09	5.14	170.43	-191.42	148.41	257.89	249.25	8.64	29.843		
1,300.00	1,299.59	1,245.61	1,215.44	4.44	5.73	175.52	-222.72	143.24	291.23	281.93	9.31	31.293		
1,400.00	1,399.34	1,335.95	1,299.16	4.80	6.36	179.89	-256.21	137.72	327.68	317.67	10.00	32.753		
1,500.00	1,499.09	1,426.28	1,382.88	5.16	7.00	-176.59	-289.70	132.19	365.52	354.82	10.70	34.157		
1,600.00	1,598.84	1,516.62	1,466.60	5.53	7.64	-173.71	-323.18	126.66	404.38	392.98	11.40	35.474		
1,700.00	1,698.59	1,606.96	1,550.31	5.89	8.29	-171.33	-356.67	121.14	443.97	431.87	12.10	36.692		
1,800.00	1,798.34	1,702.71	1,634.03	6.26	8.97	-169.32	-390.16	115.61	484.13	471.30	12.83	37.732		
1,900.00	1,898.09	1,787.63	1,717.75	6.63	9.59	-167.62	-423.64	110.08	524.72	511.21	13.51	38.838		
2,000.00	1,997.84	1,877.97	1,801.47	7.00	10.24	-166.16	-457.13	104.56	565.65	551.43	14.22	39.777		
2,100.00	2,097.59	1,968.30	1,885.19	7.37	10.89	-164.89	-490.62	99.03	606.85	591.91	14.93	40.637		
2,200.00	2,197.34	2,058.64	1,968.91	7.74	11.55	-163.78	-524.10	93.51	648.27	632.62	15.65	41.426		
2,300.00	2,297.09	2,148.98	2,052.63	8.11	12.21	-162.80	-557.59	87.98	689.86	673.50	16.37	42.151		
2,400.00	2,396.84	2,239.31	2,136.34	8.48	12.86	-161.94	-591.08	82.45	731.61	714.52	17.09	42.818		
2,500.00	2,496.59	2,329.65	2,220.06	8.85	13.52	-161.16	-624.56	76.93	773.48	755.67	17.81	43.434		
2,600.00	2,596.34	2,419.99	2,303.78	9.22	14.18	-160.47	-658.05	71.40	815.46	796.93	18.53	44.004		
2,700.00	2,696.09	2,510.32	2,387.50	9.59	14.84	-159.84	-691.54	65.87	857.53	838.27	19.26	44.532		
2,800.00	2,795.84	2,600.66	2,471.22	9.97	15.50	-159.27	-725.02	60.35	899.67	879.69	19.98	45.022		
2,900.00	2,895.59	2,709.00	2,554.94	10.34	16.29	-158.75	-758.51	54.82	941.88	921.09	20.80	45.293		
3,000.00	2,995.34	2,781.33	2,638.65	10.71	16.82	-158.28	-792.00	49.29	984.15	962.71	21.44	45.904		
3,100.00	3,095.09	2,871.67	2,722.37	11.08	17.48	-157.84	-825.48	43.77	1,026.47	1,004.30	22.17	46.302		
3,200.00	3,194.84	2,962.01	2,806.09	11.46	18.14	-157.44	-858.97	38.24	1,068.84	1,045.94	22.90	46.674		
3,300.00	3,294.59	3,052.34	2,889.81	11.83	18.80	-157.07	-892.46	32.71	1,111.25	1,087.61	23.63	47.023		
3,400.00	3,394.34	3,142.68	2,973.53	12.20	19.46	-156.73	-925.94	27.19	1,153.69	1,129.32	24.36	47.351		
3,500.00	3,494.09	3,233.02	3,057.25	12.58	20.12	-156.41	-959.43	21.66	1,196.16	1,171.06	25.10	47.660		
3,600.00	3,593.84	3,323.35	3,140.97	12.95	20.78	-156.11	-992.92	16.14	1,238.66	1,212.83	25.83	47.950		
3,700.00	3,693.59	3,413.69	3,224.68	13.32	21.45	-155.83	-1,026.40	10.61	1,281.19	1,254.62	26.57	48.225		
3,800.00	3,793.34	3,504.03	3,308.40	13.70	22.11	-155.57	-1,059.89	5.08	1,323.74	1,296.44	27.30	48.484		
3,900.00	3,893.09	3,605.64	3,392.12	14.07	22.85	-155.33	-1,093.38	-0.44	1,366.31	1,338.22	28.09	48.639		
4,000.00	3,992.84	3,684.70	3,475.84	14.44	23.43	-155.10	-1,126.86	-5.97	1,408.91	1,380.13	28.78	48.962		
4,100.00	4,092.59	3,775.03	3,559.56	14.82	24.09	-154.88	-1,160.35	-11.50	1,451.51	1,422.00	29.51	49.183		
4,200.00	4,192.34	3,865.37	3,643.28	15.19	24.76	-154.68	-1,193.84	-17.02	1,494.14	1,463.89	30.25	49.392		
4,300.00	4,292.09	3,955.71	3,727.00	15.57	25.42	-154.49	-1,227.32	-22.55	1,536.78	1,505.79	30.99	49.592		
4,400.00	4,391.84	4,046.04	3,810.71	15.94	26.08	-154.30	-1,260.81	-28.08	1,579.43	1,547.70	31.73	49.781		
4,500.00	4,491.59	4,136.38	3,894.43	16.31	26.74	-154.13	-1,294.30	-33.60	1,622.10	1,589.63	32.47	49.962		
4,600.00	4,591.34	4,226.72	3,978.15	16.69	27.41	-153.97	-1,327.78	-39.13	1,664.77	1,631.57	33.21	50.134		
4,700.00	4,691.09	4,317.05	4,061.87	17.06	28.07	-153.81	-1,361.27	-44.65	1,707.46	1,673.51	33.95	50.299		
4,800.00	4,790.84	4,407.39	4,145.59	17.44	28.73	-153.67	-1,394.76	-50.18	1,750.16	1,715.47	34.69	50.456		
4,900.00	4,890.59	4,502.27	4,229.31	17.81	29.43	-153.52	-1,428.24	-55.71	1,792.86	1,757.41	35.45	50.577		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,990.34	4,588.06	4,313.03	18.19	30.06	-153.39	-1,461.73	-61.23	1,835.58	1,799.41	36.17	50.750			
5,100.00	5,090.09	4,678.40	4,396.74	18.56	30.72	-153.26	-1,495.22	-66.76	1,878.30	1,841.39	36.91	50.888			
5,200.00	5,189.84	4,768.74	4,480.46	18.93	31.39	-153.14	-1,528.70	-72.29	1,921.03	1,883.37	37.65	51.020			
5,300.00	5,289.59	4,859.07	4,564.18	19.31	32.05	-153.02	-1,562.19	-77.81	1,963.76	1,925.37	38.40	51.146			
5,400.00	5,389.34	4,949.41	4,647.90	19.68	32.71	-152.91	-1,595.68	-83.34	2,006.51	1,967.37	39.14	51.268			
5,500.00	5,489.09	5,039.75	4,731.62	20.06	33.38	-152.80	-1,629.16	-88.87	2,049.25	2,009.37	39.88	51.384			
5,600.00	5,588.84	5,130.08	4,815.34	20.43	34.04	-152.70	-1,662.65	-94.39	2,092.01	2,051.38	40.62	51.496			
5,700.00	5,688.59	5,220.42	4,899.06	20.81	34.70	-152.60	-1,696.14	-99.92	2,134.77	2,093.40	41.37	51.604			
5,800.00	5,788.34	5,310.76	4,982.77	21.18	35.37	-152.51	-1,729.62	-105.44	2,177.53	2,135.42	42.11	51.707			
5,900.00	5,888.09	5,401.09	5,066.49	21.56	36.03	-152.41	-1,763.11	-110.97	2,220.30	2,177.45	42.86	51.807			
6,000.00	5,987.84	5,508.57	5,150.21	21.93	36.82	-152.33	-1,796.60	-116.50	2,263.08	2,219.40	43.68	51.810			
6,100.00	6,087.59	5,581.77	5,233.93	22.30	37.36	-152.24	-1,830.08	-122.02	2,305.86	2,261.51	44.35	51.995			
6,200.00	6,187.34	5,672.10	5,317.65	22.68	38.02	-152.16	-1,863.57	-127.55	2,348.64	2,303.54	45.09	52.084			
6,300.00	6,287.09	5,762.44	5,401.37	23.05	38.68	-152.08	-1,897.06	-133.08	2,391.42	2,345.58	45.84	52.170			
6,400.00	6,386.84	5,852.78	5,485.09	23.43	39.35	-152.01	-1,930.54	-138.60	2,434.21	2,387.63	46.59	52.253			
6,500.00	6,486.59	5,943.11	5,568.80	23.80	40.01	-151.93	-1,964.03	-144.13	2,477.01	2,429.67	47.33	52.333			
6,600.00	6,586.34	6,033.45	5,652.52	24.18	40.67	-151.86	-1,997.52	-149.66	2,519.80	2,471.72	48.08	52.410			
6,700.00	6,686.09	6,123.78	5,736.24	24.55	41.34	-151.79	-2,031.00	-155.18	2,562.60	2,513.78	48.83	52.485			
6,800.00	6,785.84	6,214.12	5,819.96	24.93	42.00	-151.73	-2,064.49	-160.71	2,605.40	2,555.83	49.57	52.557			
6,900.00	6,885.59	6,304.46	5,903.68	25.30	42.66	-151.66	-2,097.98	-166.23	2,648.21	2,597.89	50.32	52.626			
7,000.00	6,985.34	6,394.79	5,987.40	25.68	43.33	-151.60	-2,131.46	-171.76	2,691.02	2,639.95	51.07	52.693			
7,098.48	7,083.57	6,483.75	6,069.84	26.04	43.98	-151.54	-2,164.44	-177.20	2,733.17	2,681.37	51.81	52.757			
7,100.00	7,085.09	6,485.13	6,071.12	26.05	43.99	-151.55	-2,164.95	-177.29	2,733.83	2,682.01	51.82	52.758			
7,200.00	7,184.95	7,626.41	7,184.96	26.42	49.20	-151.65	-2,373.85	-211.77	2,752.30	2,695.62	56.68	48.562			
7,299.99	7,284.91	7,725.88	7,283.88	26.77	49.40	-151.49	-2,373.81	-220.89	2,753.87	2,696.56	57.30	48.056			
7,301.08	7,286.00	7,726.94	7,284.92	26.77	49.40	-179.63	-2,373.81	-221.08	2,753.87	2,696.56	57.31	48.051			
7,331.08	7,316.00	7,755.85	7,313.22	26.88	49.46	-179.51	-2,373.79	-226.99	2,753.89	2,696.39	57.50	47.894			
7,350.00	7,334.92	7,773.83	7,330.66	26.94	49.50	-89.67	-2,373.77	-231.38	2,753.91	2,696.29	57.62	47.795			
7,400.00	7,384.76	7,820.74	7,375.41	27.12	49.61	-89.44	-2,373.71	-245.39	2,754.00	2,696.05	57.95	47.525			
7,450.00	7,434.07	7,866.86	7,418.15	27.30	49.72	-89.22	-2,373.63	-262.69	2,754.13	2,695.84	58.30	47.241			
7,500.00	7,482.49	7,912.25	7,458.72	27.49	49.83	-89.00	-2,373.54	-283.01	2,754.30	2,695.63	58.67	46.944			
7,550.00	7,529.64	7,956.96	7,496.99	27.69	49.95	-88.79	-2,373.44	-306.11	2,754.50	2,695.44	59.07	46.632			
7,600.00	7,575.16	8,001.07	7,532.87	27.90	50.07	-88.59	-2,373.33	-331.75	2,754.73	2,695.24	59.49	46.305			
7,650.00	7,618.71	8,044.62	7,566.26	28.11	50.19	-88.40	-2,373.21	-359.70	2,754.98	2,695.03	59.95	45.958			
7,700.00	7,659.96	8,087.68	7,597.08	28.34	50.31	-88.22	-2,373.08	-389.75	2,755.23	2,694.80	60.44	45.589			
7,750.00	7,698.59	8,130.29	7,625.28	28.59	50.44	-88.05	-2,372.94	-421.67	2,755.50	2,694.53	60.97	45.194			
7,800.00	7,734.31	8,172.49	7,650.80	28.86	50.57	-87.90	-2,372.80	-455.28	2,755.76	2,694.21	61.55	44.770			
7,850.00	7,766.84	8,214.35	7,673.60	29.16	50.70	-87.76	-2,372.64	-490.38	2,756.01	2,693.82	62.19	44.314			
7,900.00	7,795.95	8,255.90	7,693.63	29.49	50.84	-87.63	-2,372.49	-526.77	2,756.25	2,693.36	62.89	43.823			
7,950.00	7,821.40	8,297.19	7,710.88	29.86	50.99	-87.52	-2,372.32	-564.27	2,756.47	2,692.81	63.67	43.296			
8,000.00	7,843.01	8,338.25	7,725.31	30.28	51.14	-87.43	-2,372.16	-602.70	2,756.67	2,692.16	64.51	42.730			
8,050.00	7,860.61	8,379.13	7,736.90	30.74	51.31	-87.35	-2,371.99	-641.89	2,756.84	2,691.40	65.43	42.132			
8,100.00	7,874.06	8,419.87	7,745.65	31.25	51.48	-87.29	-2,371.81	-681.67	2,756.97	2,690.55	66.42	41.507			
8,150.00	7,883.26	8,460.50	7,751.54	31.80	51.66	-87.25	-2,371.64	-721.86	2,757.06	2,689.59	67.48	40.859			
8,200.00	7,888.15	8,501.06	7,754.56	32.39	51.85	-87.22	-2,371.46	-762.30	2,757.12	2,688.53	68.59	40.197			
8,231.14	7,889.00	8,526.95	7,755.00	32.77	51.98	-87.21	-2,371.35	-788.18	2,757.14	2,687.82	69.32	39.776			
8,300.00	7,889.00	8,604.19	7,755.00	33.66	52.40	-87.21	-2,371.05	-857.04	2,757.14	2,685.91	71.23	38.710			
8,400.00	7,889.00	8,704.19	7,755.00	35.10	53.03	-87.21	-2,370.62	-957.04	2,757.14	2,683.04	74.10	37.209			
8,500.00	7,889.00	8,804.19	7,755.00	36.68	53.75	-87.21	-2,370.18	-1,057.04	2,757.15	2,679.90	77.24	35.695			
8,600.00	7,889.00	8,904.19	7,755.00	38.38	54.57	-87.21	-2,369.75	-1,157.04	2,757.15	2,676.53	80.62	34.199			
8,700.00	7,889.00	9,004.19	7,755.00	40.19	55.51	-87.21	-2,369.32	-1,257.04	2,757.15	2,672.94	84.21	32.743			
8,800.00	7,889.00	9,104.19	7,755.00	42.09	56.57	-87.21	-2,368.88	-1,357.04	2,757.15	2,669.18	87.98	31.340			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,889.00	9,204.19	7,755.00	44.08	57.75	-87.21	-2,368.45	-1,457.04	2,757.16	2,665.25	91.91	30.000		
9,000.00	7,889.00	9,304.19	7,755.00	46.14	59.05	-87.21	-2,368.02	-1,557.03	2,757.16	2,661.18	95.98	28.727		
9,100.00	7,889.00	9,404.19	7,755.00	48.26	60.47	-87.21	-2,367.58	-1,657.03	2,757.16	2,656.99	100.17	27.525		
9,200.00	7,889.00	9,504.19	7,755.00	50.44	62.00	-87.21	-2,367.15	-1,757.03	2,757.17	2,652.69	104.47	26.391		
9,300.00	7,889.00	9,604.19	7,755.00	52.66	63.63	-87.21	-2,366.71	-1,857.03	2,757.17	2,648.30	108.87	25.325		
9,400.00	7,889.00	9,704.19	7,755.00	54.93	65.35	-87.21	-2,366.28	-1,957.03	2,757.17	2,643.82	113.35	24.324		
9,500.00	7,889.00	9,804.19	7,755.00	57.23	67.17	-87.21	-2,365.85	-2,057.03	2,757.17	2,639.27	117.91	23.384		
9,600.00	7,889.00	9,904.19	7,755.00	59.56	69.06	-87.21	-2,365.41	-2,157.03	2,757.18	2,634.64	122.53	22.502		
9,700.00	7,889.00	10,004.19	7,755.00	61.93	71.02	-87.21	-2,364.98	-2,257.03	2,757.18	2,629.97	127.21	21.674		
9,800.00	7,889.00	10,104.19	7,755.00	64.31	73.05	-87.21	-2,364.54	-2,357.03	2,757.18	2,625.23	131.95	20.896		
9,900.00	7,889.00	10,204.19	7,755.00	66.73	75.13	-87.21	-2,364.11	-2,457.03	2,757.19	2,620.45	136.73	20.165		
10,000.00	7,889.00	10,304.19	7,755.00	69.16	77.26	-87.21	-2,363.68	-2,557.02	2,757.19	2,615.63	141.56	19.478		
10,100.00	7,889.00	10,404.19	7,755.00	71.61	79.43	-87.21	-2,363.24	-2,657.02	2,757.19	2,610.77	146.42	18.831		
10,200.00	7,889.00	10,504.19	7,755.00	74.08	81.65	-87.21	-2,362.81	-2,757.02	2,757.19	2,605.88	151.32	18.221		
10,300.00	7,889.00	10,604.19	7,755.00	76.56	83.90	-87.21	-2,362.37	-2,857.02	2,757.20	2,600.95	156.25	17.646		
10,400.00	7,889.00	10,704.19	7,755.00	79.06	86.18	-87.21	-2,361.94	-2,957.02	2,757.20	2,595.99	161.20	17.104		
10,500.00	7,889.00	10,804.19	7,755.00	81.56	88.49	-87.21	-2,361.51	-3,057.02	2,757.20	2,591.01	166.19	16.591		
10,600.00	7,889.00	10,904.19	7,755.00	84.08	90.82	-87.21	-2,361.07	-3,157.02	2,757.20	2,586.01	171.20	16.105		
10,700.00	7,889.00	11,004.19	7,755.00	86.61	93.18	-87.21	-2,360.64	-3,257.02	2,757.21	2,580.98	176.23	15.646		
10,800.00	7,889.00	11,104.19	7,755.00	89.15	95.56	-87.21	-2,360.20	-3,357.02	2,757.21	2,575.94	181.28	15.210		
10,900.00	7,889.00	11,204.19	7,754.99	91.70	97.96	-87.21	-2,359.77	-3,457.02	2,757.21	2,570.87	186.34	14.796		
11,000.00	7,889.00	11,304.19	7,754.99	94.26	100.38	-87.21	-2,359.34	-3,557.02	2,757.22	2,565.79	191.43	14.403		
11,100.00	7,889.00	11,404.19	7,754.99	96.82	102.82	-87.21	-2,358.90	-3,657.01	2,757.22	2,560.69	196.53	14.030		
11,200.00	7,889.00	11,504.19	7,754.99	99.39	105.27	-87.21	-2,358.47	-3,757.01	2,757.22	2,555.58	201.64	13.674		
11,300.00	7,889.00	11,604.19	7,754.99	101.97	107.73	-87.21	-2,358.04	-3,857.01	2,757.22	2,550.46	206.77	13.335		
11,400.00	7,889.00	11,704.19	7,754.99	104.55	110.20	-87.21	-2,357.60	-3,957.01	2,757.23	2,545.32	211.91	13.011		
11,500.00	7,889.00	11,804.19	7,754.99	107.13	112.69	-87.21	-2,357.17	-4,057.01	2,757.23	2,540.17	217.06	12.703		
11,600.00	7,889.00	11,904.19	7,754.99	109.73	115.18	-87.21	-2,356.73	-4,157.01	2,757.23	2,535.01	222.22	12.408		
11,700.00	7,889.00	12,004.19	7,754.99	112.32	117.69	-87.21	-2,356.30	-4,257.01	2,757.24	2,529.84	227.39	12.125		
11,800.00	7,889.00	12,104.19	7,754.99	114.92	120.21	-87.21	-2,355.87	-4,357.01	2,757.24	2,524.66	232.58	11.855		
11,900.00	7,889.00	12,204.19	7,754.99	117.53	122.73	-87.21	-2,355.43	-4,457.01	2,757.24	2,519.48	237.77	11.596		
12,000.00	7,889.00	12,304.19	7,754.99	120.14	125.26	-87.21	-2,355.00	-4,557.01	2,757.24	2,514.28	242.96	11.348		
12,100.00	7,889.00	12,404.19	7,754.99	122.75	127.80	-87.21	-2,354.56	-4,657.01	2,757.25	2,509.08	248.17	11.110		
12,200.00	7,889.00	12,504.19	7,754.99	125.36	130.35	-87.21	-2,354.13	-4,757.00	2,757.25	2,503.87	253.38	10.882		
12,300.00	7,889.00	12,604.19	7,754.99	127.98	132.90	-87.21	-2,353.70	-4,857.00	2,757.25	2,498.65	258.60	10.662		
12,400.00	7,888.99	12,695.81	7,754.99	130.60	135.24	-87.21	-2,353.26	-4,957.00	2,757.26	2,493.65	263.61	10.460		
12,500.00	7,888.99	12,804.19	7,754.99	133.23	138.02	-87.21	-2,352.83	-5,057.00	2,757.26	2,488.20	269.06	10.248		
12,600.00	7,888.99	12,904.19	7,754.99	135.85	140.59	-87.21	-2,352.39	-5,157.00	2,757.26	2,482.97	274.30	10.052		
12,700.00	7,888.99	12,995.81	7,754.99	138.48	142.95	-87.21	-2,351.96	-5,257.00	2,757.26	2,477.95	279.32	9.871		
12,800.00	7,888.99	13,104.19	7,754.99	141.12	145.75	-87.21	-2,351.53	-5,357.00	2,757.27	2,472.48	284.79	9.682		
12,900.00	7,888.99	13,204.19	7,754.99	143.75	148.33	-87.21	-2,351.09	-5,457.00	2,757.27	2,467.23	290.04	9.507		
13,000.00	7,888.99	13,304.19	7,754.99	146.38	150.92	-87.21	-2,350.66	-5,557.00	2,757.27	2,461.98	295.30	9.337		
13,100.00	7,888.99	13,404.19	7,754.99	149.02	153.51	-87.21	-2,350.23	-5,657.00	2,757.28	2,456.72	300.56	9.174		
13,200.00	7,888.99	13,504.19	7,754.99	151.66	156.10	-87.21	-2,349.79	-5,756.99	2,757.28	2,451.46	305.82	9.016		
13,300.00	7,888.99	13,604.19	7,754.99	154.30	158.70	-87.21	-2,349.36	-5,856.99	2,757.28	2,446.19	311.09	8.863		
13,400.00	7,888.99	13,704.19	7,754.99	156.94	161.31	-87.21	-2,348.92	-5,956.99	2,757.28	2,440.92	316.36	8.716		
13,500.00	7,888.99	13,804.19	7,754.99	159.59	163.91	-87.21	-2,348.49	-6,056.99	2,757.29	2,435.65	321.64	8.573		
13,600.00	7,888.99	13,904.19	7,754.99	162.24	166.52	-87.21	-2,348.06	-6,156.99	2,757.29	2,430.37	326.92	8.434		
13,700.00	7,888.99	14,004.19	7,754.99	164.88	169.13	-87.21	-2,347.62	-6,256.99	2,757.29	2,425.09	332.20	8.300		
13,800.00	7,888.99	14,104.19	7,754.99	167.53	171.74	-87.21	-2,347.19	-6,356.99	2,757.30	2,419.81	337.49	8.170		
13,900.00	7,888.99	14,204.19	7,754.99	170.18	174.36	-87.21	-2,346.75	-6,456.99	2,757.30	2,414.53	342.77	8.044		
14,000.00	7,888.99	14,304.19	7,754.99	172.83	176.98	-87.21	-2,346.32	-6,556.99	2,757.30	2,409.24	348.06	7.922		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,888.99	14,404.19	7,754.99	175.48	179.60	-87.21	-2,345.89	-6,656.99	2,757.30	2,403.95	353.36	7.803		
14,200.00	7,888.99	14,504.19	7,754.99	178.14	182.22	-87.21	-2,345.45	-6,756.99	2,757.31	2,398.65	358.65	7.688		
14,300.00	7,888.99	14,604.19	7,754.99	180.79	184.85	-87.21	-2,345.02	-6,856.98	2,757.31	2,393.36	363.95	7.576		
14,400.00	7,888.99	14,704.19	7,754.99	183.45	187.48	-87.21	-2,344.58	-6,956.98	2,757.31	2,388.06	369.25	7.467		
14,500.00	7,888.99	14,804.19	7,754.99	186.10	190.11	-87.21	-2,344.15	-7,056.98	2,757.32	2,382.76	374.55	7.362		
14,600.00	7,888.99	14,904.19	7,754.99	188.76	192.74	-87.21	-2,343.72	-7,156.98	2,757.32	2,377.46	379.86	7.259		
14,700.00	7,888.99	15,004.19	7,754.99	191.42	195.37	-87.21	-2,343.28	-7,256.98	2,757.32	2,372.15	385.17	7.159		
14,800.00	7,888.99	15,104.19	7,754.99	194.08	198.01	-87.21	-2,342.85	-7,356.98	2,757.32	2,366.85	390.47	7.061		
14,900.00	7,888.99	15,204.19	7,754.99	196.74	200.64	-87.21	-2,342.42	-7,456.98	2,757.33	2,361.54	395.79	6.967		
15,000.00	7,888.99	15,304.19	7,754.99	199.40	203.28	-87.21	-2,341.98	-7,556.98	2,757.33	2,356.23	401.10	6.874		
15,100.00	7,888.99	15,404.19	7,754.99	202.06	205.92	-87.21	-2,341.55	-7,656.98	2,757.33	2,350.92	406.41	6.785		
15,200.00	7,888.99	15,504.19	7,754.99	204.72	208.56	-87.21	-2,341.11	-7,756.98	2,757.34	2,345.61	411.73	6.697		
15,300.00	7,888.99	15,604.19	7,754.99	207.39	211.20	-87.21	-2,340.68	-7,856.98	2,757.34	2,340.29	417.04	6.612		
15,400.00	7,888.99	15,704.19	7,754.99	210.05	213.85	-87.21	-2,340.25	-7,956.97	2,757.34	2,334.98	422.36	6.528		
15,500.00	7,888.99	15,804.19	7,754.99	212.71	216.49	-87.21	-2,339.81	-8,056.97	2,757.34	2,329.66	427.68	6.447		
15,600.00	7,888.99	15,904.19	7,754.99	215.38	219.14	-87.21	-2,339.38	-8,156.97	2,757.35	2,324.34	433.00	6.368		
15,700.00	7,888.99	16,004.19	7,754.99	218.05	221.78	-87.21	-2,338.94	-8,256.97	2,757.35	2,319.02	438.33	6.291		
15,800.00	7,888.99	16,104.19	7,754.99	220.71	224.43	-87.21	-2,338.51	-8,356.97	2,757.35	2,313.70	443.65	6.215		
15,900.00	7,888.99	16,204.19	7,754.99	223.38	227.08	-87.21	-2,338.08	-8,456.97	2,757.36	2,308.38	448.98	6.141		
16,000.00	7,888.99	16,304.19	7,754.99	226.05	229.73	-87.21	-2,337.64	-8,556.97	2,757.36	2,303.05	454.30	6.069		
16,100.00	7,888.99	16,404.19	7,754.98	228.71	232.39	-87.21	-2,337.21	-8,656.97	2,757.36	2,297.73	459.63	5.999		
16,200.00	7,888.99	16,504.19	7,754.98	231.38	235.04	-87.21	-2,336.77	-8,756.97	2,757.36	2,292.40	464.96	5.930		
16,300.00	7,888.99	16,604.19	7,754.98	234.05	237.69	-87.21	-2,336.34	-8,856.97	2,757.37	2,287.08	470.29	5.863		
16,400.00	7,888.99	16,704.19	7,754.98	236.72	240.35	-87.21	-2,335.91	-8,956.96	2,757.37	2,281.75	475.62	5.797		
16,500.00	7,888.99	16,804.19	7,754.98	239.39	243.00	-87.21	-2,335.47	-9,056.96	2,757.37	2,276.42	480.95	5.733		
16,600.00	7,888.99	16,904.19	7,754.98	242.06	245.66	-87.21	-2,335.04	-9,156.96	2,757.38	2,271.09	486.29	5.670		
16,700.00	7,888.99	17,004.19	7,754.98	244.73	248.31	-87.21	-2,334.60	-9,256.96	2,757.38	2,265.76	491.62	5.609		
16,800.00	7,888.99	17,104.19	7,754.98	247.40	250.97	-87.21	-2,334.17	-9,356.96	2,757.38	2,260.43	496.95	5.549		
16,900.00	7,888.99	17,204.19	7,754.98	250.07	253.63	-87.21	-2,333.74	-9,456.96	2,757.38	2,255.09	502.29	5.490		
17,000.00	7,888.99	17,304.19	7,754.98	252.75	256.29	-87.21	-2,333.30	-9,556.96	2,757.39	2,249.76	507.63	5.432		
17,100.00	7,888.99	17,404.19	7,754.98	255.42	258.95	-87.21	-2,332.87	-9,656.96	2,757.39	2,244.42	512.96	5.375		
17,200.00	7,888.99	17,504.19	7,754.98	258.09	261.61	-87.21	-2,332.44	-9,756.96	2,757.39	2,239.09	518.30	5.320		
17,300.00	7,888.99	17,604.19	7,754.98	260.76	264.27	-87.21	-2,332.00	-9,856.96	2,757.39	2,233.75	523.64	5.266		
17,400.00	7,888.99	17,704.19	7,754.98	263.44	266.94	-87.21	-2,331.57	-9,956.96	2,757.40	2,228.42	528.98	5.213		
17,500.00	7,888.99	17,804.19	7,754.98	266.11	269.60	-87.21	-2,331.13	-10,056.95	2,757.40	2,223.08	534.32	5.161		
17,600.00	7,888.99	17,904.19	7,754.98	268.78	272.26	-87.21	-2,330.70	-10,156.95	2,757.40	2,217.74	539.66	5.109		
17,700.00	7,888.99	18,004.19	7,754.98	271.46	274.93	-87.21	-2,330.27	-10,256.95	2,757.41	2,212.40	545.01	5.059		
17,800.00	7,888.99	18,104.19	7,754.98	274.13	277.59	-87.21	-2,329.83	-10,356.95	2,757.41	2,207.06	550.35	5.010		
17,900.00	7,888.99	18,210.73	7,755.00	276.81	280.43	-87.21	-2,329.11	-10,471.88	2,757.23	2,201.47	555.76	4.961		
17,916.62	7,888.99	18,210.73	7,755.00	277.25	280.43	-87.21	-2,329.11	-10,471.88	2,757.19	2,200.87	556.32	4.956		
17,917.28	7,889.00	18,210.73	7,755.00	277.27	280.43	-87.21	-2,329.11	-10,471.88	2,757.14	2,200.80	556.34	4.956 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	53.44	53.44					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	53.44	53.44	53.17	0.27	198.760		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	53.44	53.44	52.45	0.99	54.207		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	53.44	53.44	51.73	1.70	31.383		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	53.44	53.44	51.02	2.42	22.084		
500.00	500.00	500.26	500.24	1.57	1.57	88.13	1.73	53.15	53.18	50.05	3.14	16.953		
600.00	600.00	600.28	600.11	1.93	1.93	82.48	6.91	52.31	52.76	48.91	3.85	13.687		
622.24	622.24	622.47	622.24	2.01	2.01	80.70	8.52	52.04	52.74	48.72	4.02	13.132	CC	
700.00	700.00	699.81	699.26	2.29	2.30	73.10	15.47	50.91	53.21	48.63	4.58	11.623	ES	
800.00	800.00	798.62	797.33	2.64	2.67	60.84	27.32	48.96	56.14	50.83	5.31	10.577		
900.00	900.00	896.48	894.00	3.00	3.06	47.68	42.35	46.50	63.18	57.15	6.03	10.471		
1,000.00	1,000.00	993.19	988.96	3.36	3.46	35.80	60.39	43.55	75.27	68.53	6.74	11.163		
1,100.00	1,099.98	1,088.91	1,082.29	3.72	3.89	54.99	81.35	40.12	91.43	84.00	7.43	12.303		
1,200.00	1,199.84	1,185.95	1,176.31	4.08	4.35	49.32	105.07	36.24	109.09	100.96	8.13	13.414		
1,202.60	1,202.43	1,188.51	1,178.78	4.09	4.37	49.21	105.70	36.13	109.54	101.38	8.15	13.437		
1,300.00	1,299.59	1,284.21	1,271.45	4.44	4.84	45.95	129.29	32.27	126.38	117.51	8.86	14.258		
1,400.00	1,399.34	1,382.47	1,366.60	4.80	5.33	43.40	153.50	28.31	143.98	134.38	9.60	14.999		
1,500.00	1,499.09	1,480.73	1,461.75	5.16	5.83	41.40	177.72	24.34	161.81	151.47	10.34	15.652		
1,600.00	1,598.84	1,578.99	1,556.89	5.53	6.34	39.81	201.94	20.38	179.78	168.70	11.08	16.229		
1,700.00	1,698.59	1,677.25	1,652.04	5.89	6.85	38.50	226.15	16.41	197.87	186.05	11.82	16.740		
1,800.00	1,798.34	1,775.51	1,747.19	6.26	7.36	37.41	250.37	12.45	216.04	203.47	12.56	17.195		
1,900.00	1,898.09	1,873.77	1,842.33	6.63	7.88	36.49	274.58	8.48	234.27	220.96	13.31	17.603		
2,000.00	1,997.84	1,972.03	1,937.48	7.00	8.40	35.71	298.80	4.52	252.55	238.50	14.05	17.969		
2,100.00	2,097.59	2,070.29	2,032.63	7.37	8.92	35.03	323.01	0.55	270.87	256.07	14.80	18.300		
2,200.00	2,197.34	2,168.55	2,127.77	7.74	9.44	34.43	347.23	-3.41	289.23	273.68	15.55	18.601		
2,300.00	2,297.09	2,266.81	2,222.92	8.11	9.96	33.91	371.45	-7.37	307.61	291.31	16.30	18.874		
2,400.00	2,396.84	2,365.07	2,318.06	8.48	10.49	33.44	395.66	-11.34	326.01	308.97	17.05	19.125		
2,500.00	2,496.59	2,463.33	2,413.21	8.85	11.01	33.03	419.88	-15.30	344.44	326.64	17.80	19.354		
2,600.00	2,596.34	2,561.59	2,508.36	9.22	11.54	32.66	444.09	-19.27	362.87	344.33	18.55	19.566		
2,700.00	2,696.09	2,659.85	2,603.50	9.59	12.06	32.32	468.31	-23.23	381.32	362.03	19.30	19.761		
2,800.00	2,795.84	2,758.11	2,698.65	9.97	12.59	32.02	492.53	-27.20	399.79	379.74	20.05	19.942		
2,900.00	2,895.59	2,856.37	2,793.80	10.34	13.12	31.74	516.74	-31.16	418.26	397.46	20.80	20.110		
3,000.00	2,995.34	2,954.63	2,888.94	10.71	13.65	31.48	540.96	-35.13	436.74	415.19	21.55	20.266		
3,100.00	3,095.09	3,052.89	2,984.09	11.08	14.18	31.25	565.17	-39.09	455.23	432.93	22.30	20.412		
3,200.00	3,194.84	3,151.15	3,079.24	11.46	14.71	31.03	589.39	-43.06	473.73	450.67	23.05	20.548		
3,300.00	3,294.59	3,249.41	3,174.38	11.83	15.24	30.83	613.60	-47.02	492.23	468.42	23.81	20.676		
3,400.00	3,394.34	3,347.67	3,269.53	12.20	15.77	30.65	637.82	-50.98	510.73	486.17	24.56	20.796		
3,500.00	3,494.09	3,445.93	3,364.67	12.58	16.30	30.48	662.04	-54.95	529.25	503.93	25.31	20.909		
3,600.00	3,593.84	3,544.18	3,459.82	12.95	16.83	30.31	686.25	-58.91	547.76	521.70	26.07	21.015		
3,700.00	3,693.59	3,642.44	3,554.97	13.32	17.36	30.16	710.47	-62.88	566.28	539.46	26.82	21.115		
3,800.00	3,793.34	3,740.70	3,650.11	13.70	17.89	30.02	734.68	-66.84	584.81	557.23	27.57	21.210		
3,900.00	3,893.09	3,838.96	3,745.26	14.07	18.42	29.89	758.90	-70.81	603.33	575.01	28.33	21.300		
4,000.00	3,992.84	3,937.22	3,840.41	14.44	18.95	29.77	783.11	-74.77	621.86	592.78	29.08	21.386		
4,100.00	4,092.59	4,035.48	3,935.55	14.82	19.48	29.65	807.33	-78.74	640.39	610.56	29.83	21.466		
4,200.00	4,192.34	4,133.74	4,030.70	15.19	20.01	29.54	831.55	-82.70	658.93	628.34	30.59	21.543		
4,300.00	4,292.09	4,232.00	4,125.85	15.57	20.54	29.44	855.76	-86.66	677.47	646.13	31.34	21.617		
4,400.00	4,391.84	4,330.26	4,220.99	15.94	21.08	29.34	879.98	-90.63	696.00	663.91	32.09	21.686		
4,500.00	4,491.59	4,428.52	4,316.14	16.31	21.61	29.24	904.19	-94.59	714.55	681.70	32.85	21.753		
4,600.00	4,591.34	4,526.78	4,411.29	16.69	22.14	29.16	928.41	-98.56	733.09	699.49	33.60	21.816		
4,700.00	4,691.09	4,625.04	4,506.43	17.06	22.67	29.07	952.63	-102.52	751.63	717.28	34.36	21.877		
4,800.00	4,790.84	4,723.30	4,601.58	17.44	23.20	28.99	976.84	-106.49	770.18	735.07	35.11	21.935		
4,900.00	4,890.59	4,821.56	4,696.72	17.81	23.74	28.91	1,001.06	-110.45	788.73	752.86	35.87	21.991		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,990.34	4,919.82	4,791.87	18.19	24.27	28.84	1,025.27	-114.42	807.27	770.65	36.62	22.044		
5,100.00	5,090.09	5,018.08	4,887.02	18.56	24.80	28.77	1,049.49	-118.38	825.82	788.45	37.38	22.095		
5,200.00	5,189.84	5,116.34	4,982.16	18.93	25.33	28.70	1,073.70	-122.35	844.37	806.24	38.13	22.144		
5,300.00	5,289.59	5,214.60	5,077.31	19.31	25.87	28.64	1,097.92	-126.31	862.93	824.04	38.89	22.191		
5,400.00	5,389.34	5,312.86	5,172.46	19.68	26.40	28.58	1,122.14	-130.27	881.48	841.84	39.64	22.237		
5,500.00	5,489.09	5,411.12	5,267.60	20.06	26.93	28.52	1,146.35	-134.24	900.03	859.64	40.40	22.280		
5,600.00	5,588.84	5,509.38	5,362.75	20.43	27.46	28.46	1,170.57	-138.20	918.59	877.44	41.15	22.322		
5,700.00	5,688.59	5,607.64	5,457.90	20.81	28.00	28.41	1,194.78	-142.17	937.14	895.24	41.91	22.363		
5,800.00	5,788.34	5,705.90	5,553.04	21.18	28.53	28.36	1,219.00	-146.13	955.70	913.04	42.66	22.402		
5,900.00	5,888.09	5,804.16	5,648.19	21.56	29.06	28.31	1,243.21	-150.10	974.26	930.84	43.42	22.439		
6,000.00	5,987.84	5,902.42	5,743.33	21.93	29.60	28.26	1,267.43	-154.06	992.81	948.64	44.17	22.476		
6,100.00	6,087.59	6,000.68	5,838.48	22.30	30.13	28.21	1,291.65	-158.03	1,011.37	966.44	44.93	22.511		
6,200.00	6,187.34	6,101.07	5,933.63	22.68	30.67	28.17	1,315.86	-161.99	1,029.93	984.24	45.69	22.541		
6,300.00	6,287.09	6,202.81	6,028.77	23.05	31.22	28.13	1,340.08	-165.96	1,048.49	1,002.03	46.46	22.567		
6,400.00	6,386.84	6,295.45	6,123.92	23.43	31.73	28.08	1,364.29	-169.92	1,067.05	1,019.85	47.20	22.609		
6,500.00	6,486.59	6,406.29	6,219.07	23.80	32.33	28.04	1,388.51	-173.88	1,085.61	1,037.61	48.00	22.616		
6,600.00	6,586.34	6,508.03	6,314.21	24.18	32.88	28.00	1,412.73	-177.85	1,104.17	1,055.40	48.77	22.639		
6,700.00	6,686.09	6,590.23	6,409.36	24.55	33.33	27.97	1,436.94	-181.81	1,122.73	1,073.27	49.46	22.698		
6,800.00	6,785.84	6,688.49	6,504.51	24.93	33.86	27.93	1,461.16	-185.78	1,141.30	1,091.08	50.22	22.726		
6,900.00	6,885.59	6,806.73	6,619.11	25.30	34.50	27.89	1,485.88	-190.48	1,159.60	1,108.47	51.12	22.682		
7,000.00	6,985.34	6,972.32	6,781.17	25.68	35.30	27.90	1,523.31	-195.95	1,173.65	1,121.38	52.28	22.651		
7,098.48	7,083.57	7,137.49	6,944.50	26.04	35.99	27.97	1,547.39	-199.90	1,181.92	1,128.66	53.26	22.193		
7,100.00	7,085.09	7,140.06	6,947.05	26.05	36.00	27.97	1,547.69	-199.95	1,182.00	1,128.73	53.27	22.188		
7,200.00	7,184.95	7,308.82	7,115.12	26.42	36.60	28.10	1,562.52	-202.37	1,186.14	1,132.05	54.09	21.929		
7,299.99	7,284.91	7,477.96	7,284.16	26.77	37.07	28.14	1,567.55	-203.20	1,187.55	1,132.83	54.72	21.703		
7,301.08	7,286.00	7,479.80	7,286.00	26.77	37.07	0.00	1,567.55	-203.20	1,187.55	1,132.83	54.72	21.701		
7,331.08	7,316.00	7,509.80	7,316.00	26.88	37.15	0.00	1,567.55	-203.20	1,187.55	1,132.62	54.93	21.621		
7,350.00	7,334.92	7,528.56	7,334.76	26.94	37.19	89.75	1,567.55	-203.50	1,187.55	1,132.50	55.05	21.571		
7,400.00	7,384.76	7,578.12	7,384.16	27.12	37.32	89.75	1,567.57	-207.26	1,187.55	1,132.15	55.40	21.437		
7,450.00	7,434.07	7,627.69	7,433.06	27.30	37.45	89.76	1,567.60	-215.28	1,187.55	1,131.79	55.76	21.298		
7,500.00	7,482.49	7,677.27	7,481.09	27.49	37.59	89.76	1,567.65	-227.49	1,187.55	1,131.41	56.14	21.153		
7,550.00	7,529.64	7,726.85	7,527.90	27.69	37.73	89.77	1,567.72	-243.82	1,187.55	1,131.00	56.54	21.002		
7,600.00	7,575.16	7,776.45	7,573.13	27.90	37.88	89.78	1,567.81	-264.13	1,187.54	1,130.57	56.97	20.845		
7,650.00	7,618.71	7,826.07	7,616.45	28.11	38.04	89.79	1,567.92	-288.28	1,187.54	1,130.12	57.42	20.680		
7,700.00	7,659.96	7,875.70	7,657.54	28.34	38.20	89.80	1,568.04	-316.11	1,187.54	1,129.63	57.91	20.506		
7,750.00	7,698.59	7,925.36	7,696.08	28.59	38.36	89.81	1,568.17	-347.39	1,187.54	1,129.09	58.44	20.320		
7,800.00	7,734.31	7,975.05	7,731.78	28.86	38.54	89.83	1,568.32	-381.92	1,187.53	1,128.51	59.02	20.121		
7,850.00	7,766.84	8,024.76	7,764.38	29.16	38.72	89.85	1,568.48	-419.43	1,187.53	1,127.87	59.66	19.905		
7,900.00	7,795.95	8,074.50	7,793.63	29.49	38.92	89.86	1,568.65	-459.65	1,187.53	1,127.16	60.36	19.673		
7,950.00	7,821.40	8,124.27	7,819.29	29.86	39.14	89.88	1,568.84	-502.28	1,187.52	1,126.38	61.15	19.421		
8,000.00	7,843.01	8,174.08	7,841.17	30.28	39.37	89.90	1,569.03	-547.00	1,187.52	1,125.51	62.01	19.151		
8,050.00	7,860.61	8,223.92	7,859.09	30.74	39.63	89.92	1,569.23	-593.49	1,187.52	1,124.56	62.96	18.863		
8,100.00	7,874.06	8,273.80	7,872.92	31.25	39.92	89.94	1,569.44	-641.40	1,187.51	1,123.53	63.99	18.559		
8,150.00	7,883.26	8,323.71	7,882.54	31.80	40.24	89.96	1,569.65	-690.36	1,187.51	1,122.41	65.09	18.243		
8,200.00	7,888.15	8,373.67	7,887.86	32.39	40.59	89.99	1,569.86	-740.01	1,187.51	1,121.23	66.27	17.919		
8,231.14	7,889.00	8,404.80	7,888.98	32.77	40.83	90.00	1,570.00	-771.12	1,187.50	1,120.47	67.03	17.716		
8,300.00	7,889.00	8,473.66	7,889.00	33.66	41.40	90.00	1,570.29	-839.98	1,187.50	1,118.66	68.84	17.251		
8,400.00	7,889.00	8,573.65	7,889.00	35.10	42.37	90.00	1,570.72	-939.97	1,187.49	1,115.79	71.71	16.561		
8,500.00	7,889.00	8,673.65	7,889.00	36.68	43.49	90.00	1,571.15	-1,039.97	1,187.49	1,112.64	74.85	15.865		
8,600.00	7,889.00	8,773.65	7,889.00	38.38	44.77	90.00	1,571.58	-1,139.97	1,187.48	1,109.25	78.24	15.178		
8,700.00	7,889.00	8,873.65	7,888.99	40.19	46.19	90.00	1,572.02	-1,239.97	1,187.48	1,105.64	81.84	14.510		
8,800.00	7,889.00	8,973.65	7,888.99	42.09	47.74	90.00	1,572.45	-1,339.97	1,187.47	1,101.85	85.63	13.868		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,889.00	9,073.65	7,888.99	44.08	49.41	90.00	1,572.88	-1,439.96	1,187.47	1,097.89	89.58	13.256		
9,000.00	7,889.00	9,173.65	7,888.99	46.14	51.18	90.00	1,573.31	-1,539.96	1,187.46	1,093.79	93.67	12.677		
9,100.00	7,889.00	9,273.64	7,888.99	48.26	53.05	90.00	1,573.74	-1,639.96	1,187.46	1,089.57	97.89	12.131		
9,200.00	7,889.00	9,373.64	7,888.99	50.44	54.99	90.00	1,574.17	-1,739.96	1,187.45	1,085.24	102.22	11.617		
9,300.00	7,889.00	9,473.64	7,888.99	52.66	57.00	90.00	1,574.61	-1,839.95	1,187.45	1,080.81	106.64	11.135		
9,400.00	7,889.00	9,573.64	7,888.99	54.93	59.08	90.00	1,575.04	-1,939.95	1,187.44	1,076.30	111.15	10.684		
9,500.00	7,889.00	9,673.64	7,888.99	57.23	61.21	90.00	1,575.47	-2,039.95	1,187.44	1,071.71	115.73	10.261		
9,600.00	7,889.00	9,773.64	7,888.98	59.56	63.38	90.00	1,575.90	-2,139.95	1,187.43	1,067.06	120.38	9.864		
9,700.00	7,889.00	9,873.64	7,888.98	61.93	65.60	90.00	1,576.33	-2,239.94	1,187.43	1,062.35	125.08	9.493		
9,800.00	7,889.00	9,973.63	7,888.98	64.31	67.86	90.00	1,576.77	-2,339.94	1,187.42	1,057.58	129.84	9.145		
9,900.00	7,889.00	10,073.63	7,888.98	66.73	70.15	90.00	1,577.20	-2,439.94	1,187.42	1,052.77	134.65	8.819		
10,000.00	7,889.00	10,173.63	7,888.98	69.16	72.47	90.00	1,577.63	-2,539.94	1,187.42	1,047.92	139.49	8.512		
10,100.00	7,889.00	10,273.63	7,888.98	71.61	74.82	90.00	1,578.07	-2,639.93	1,187.41	1,043.03	144.38	8.224		
10,200.00	7,889.00	10,373.63	7,888.98	74.08	77.19	90.00	1,578.50	-2,739.93	1,187.41	1,038.11	149.30	7.953		
10,300.00	7,889.00	10,473.63	7,888.98	76.56	79.58	90.00	1,578.93	-2,839.93	1,187.40	1,033.16	154.25	7.698		
10,400.00	7,889.00	10,573.63	7,888.98	79.06	81.99	90.00	1,579.36	-2,939.93	1,187.40	1,028.17	159.23	7.457		
10,500.00	7,889.00	10,673.62	7,888.98	81.56	84.42	90.00	1,579.80	-3,039.93	1,187.40	1,023.17	164.23	7.230		
10,600.00	7,889.00	10,773.62	7,888.98	84.08	86.87	90.00	1,580.23	-3,139.92	1,187.39	1,018.14	169.26	7.015		
10,700.00	7,889.00	10,873.62	7,888.98	86.61	89.33	90.00	1,580.66	-3,239.92	1,187.39	1,013.09	174.30	6.812		
10,800.00	7,889.00	10,973.62	7,888.98	89.15	91.80	90.00	1,581.10	-3,339.92	1,187.39	1,008.02	179.37	6.620		
10,900.00	7,889.00	11,073.62	7,888.97	91.70	94.29	90.00	1,581.53	-3,439.92	1,187.39	1,002.93	184.45	6.437		
11,000.00	7,889.00	11,173.62	7,888.97	94.26	96.79	90.00	1,581.97	-3,539.91	1,187.38	997.83	189.55	6.264		
11,100.00	7,889.00	11,273.62	7,888.97	96.82	99.29	90.00	1,582.40	-3,639.91	1,187.38	992.71	194.67	6.099		
11,200.00	7,889.00	11,373.61	7,888.97	99.39	101.81	90.00	1,582.83	-3,739.91	1,187.38	987.58	199.80	5.943		
11,300.00	7,889.00	11,473.61	7,888.97	101.97	104.34	90.00	1,583.27	-3,839.91	1,187.37	982.43	204.94	5.794		
11,400.00	7,889.00	11,573.61	7,888.97	104.55	106.87	90.00	1,583.70	-3,939.90	1,187.37	977.28	210.10	5.652		
11,500.00	7,889.00	11,673.61	7,888.97	107.13	109.42	90.00	1,584.14	-4,039.90	1,187.37	972.11	215.26	5.516		
11,600.00	7,889.00	11,773.61	7,888.97	109.73	111.97	90.00	1,584.57	-4,139.90	1,187.37	966.93	220.44	5.386		
11,700.00	7,889.00	11,873.61	7,888.97	112.32	114.52	90.00	1,585.01	-4,239.90	1,187.37	961.75	225.62	5.263		
11,800.00	7,889.00	11,973.61	7,888.97	114.92	117.09	90.00	1,585.44	-4,339.89	1,187.36	956.55	230.81	5.144		
11,900.00	7,889.00	12,073.60	7,888.97	117.53	119.65	90.00	1,585.88	-4,439.89	1,187.36	951.35	236.02	5.031		
12,000.00	7,889.00	12,173.60	7,888.97	120.14	122.23	90.00	1,586.31	-4,539.89	1,187.36	946.13	241.23	4.922		
12,100.00	7,889.00	12,273.60	7,888.97	122.75	124.81	90.00	1,586.75	-4,639.89	1,187.36	940.92	246.44	4.818		
12,200.00	7,889.00	12,373.60	7,888.97	125.36	127.39	90.00	1,587.18	-4,739.89	1,187.36	935.69	251.67	4.718		
12,300.00	7,889.00	12,473.60	7,888.97	127.98	129.98	90.00	1,587.62	-4,839.88	1,187.36	930.46	256.90	4.622		
12,400.00	7,888.99	12,573.60	7,888.97	130.60	132.57	90.00	1,588.05	-4,939.88	1,187.36	925.22	262.14	4.530		
12,500.00	7,888.99	12,673.60	7,888.97	133.23	135.17	90.00	1,588.49	-5,039.88	1,187.35	919.98	267.38	4.441		
12,600.00	7,888.99	12,773.59	7,888.97	135.85	137.77	90.00	1,588.93	-5,139.88	1,187.35	914.73	272.62	4.355		
12,700.00	7,888.99	12,873.59	7,888.97	138.48	140.37	90.00	1,589.36	-5,239.87	1,187.35	909.48	277.88	4.273		
12,800.00	7,888.99	12,973.59	7,888.97	141.12	142.98	90.00	1,589.80	-5,339.87	1,187.35	904.22	283.13	4.194		
12,900.00	7,888.99	13,073.59	7,888.97	143.75	145.59	90.00	1,590.23	-5,439.87	1,187.35	898.95	288.40	4.117		
13,000.00	7,888.99	13,173.59	7,888.97	146.38	148.20	90.00	1,590.67	-5,539.87	1,187.35	893.69	293.66	4.043		
13,100.00	7,888.99	13,273.59	7,888.97	149.02	150.81	90.00	1,591.11	-5,639.86	1,187.35	888.42	298.93	3.972		
13,200.00	7,888.99	13,373.59	7,888.97	151.66	153.43	90.00	1,591.54	-5,739.86	1,187.35	883.14	304.21	3.903		
13,300.00	7,888.99	13,473.58	7,888.97	154.30	156.05	90.00	1,591.98	-5,839.86	1,187.35	877.87	309.48	3.837		
13,336.17	7,888.99	13,509.75	7,888.97	155.26	157.00	90.00	1,592.14	-5,876.03	1,187.35	875.96	311.39	3.813		
13,400.00	7,888.99	13,573.58	7,888.97	156.94	158.67	90.00	1,592.42	-5,939.86	1,187.35	872.59	314.77	3.772		
13,500.00	7,888.99	13,673.58	7,888.97	159.59	161.30	90.00	1,592.85	-6,039.85	1,187.35	867.30	320.05	3.710		
13,600.00	7,888.99	13,773.58	7,888.97	162.24	163.93	90.00	1,593.29	-6,139.85	1,187.35	862.01	325.34	3.650		
13,700.00	7,888.99	13,873.58	7,888.97	164.88	166.56	90.00	1,593.73	-6,239.85	1,187.35	856.72	330.63	3.591		
13,800.00	7,888.99	13,973.58	7,888.97	167.53	169.19	90.00	1,594.16	-6,339.85	1,187.35	851.43	335.92	3.535		
13,900.00	7,888.99	14,073.58	7,888.97	170.18	171.82	90.00	1,594.60	-6,439.85	1,187.35	846.14	341.22	3.480		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,000.00	7,888.99	14,173.58	7,888.97	172.83	174.45	90.00	1,595.04	-6,539.84	1,187.35	840.84	346.52	3.427			
14,100.00	7,888.99	14,273.57	7,888.97	175.48	177.09	90.00	1,595.48	-6,639.84	1,187.35	835.54	351.82	3.375			
14,200.00	7,888.99	14,373.57	7,888.97	178.14	179.73	90.00	1,595.91	-6,739.84	1,187.36	830.24	357.12	3.325			
14,300.00	7,888.99	14,473.57	7,888.97	180.79	182.37	90.00	1,596.35	-6,839.84	1,187.36	824.93	362.43	3.276			
14,400.00	7,888.99	14,573.57	7,888.97	183.45	185.01	90.00	1,596.79	-6,939.83	1,187.36	819.62	367.73	3.229			
14,500.00	7,888.99	14,673.57	7,888.97	186.10	187.65	90.00	1,597.23	-7,039.83	1,187.36	814.32	373.04	3.183			
14,600.00	7,888.99	14,773.57	7,888.97	188.76	190.30	90.00	1,597.67	-7,139.83	1,187.36	809.01	378.35	3.138			
14,700.00	7,888.99	14,873.57	7,888.97	191.42	192.94	90.00	1,598.10	-7,239.83	1,187.36	803.69	383.67	3.095			
14,800.00	7,888.99	14,973.56	7,888.97	194.08	195.59	90.00	1,598.54	-7,339.82	1,187.36	798.38	388.98	3.052			
14,900.00	7,888.99	15,073.56	7,888.97	196.74	198.23	90.00	1,598.98	-7,439.82	1,187.37	793.07	394.30	3.011			
15,000.00	7,888.99	15,173.56	7,888.97	199.40	200.88	90.00	1,599.42	-7,539.82	1,187.37	787.75	399.62	2.971			
15,100.00	7,888.99	15,273.56	7,888.97	202.06	203.53	90.00	1,599.86	-7,639.82	1,187.37	782.43	404.94	2.932			
15,200.00	7,888.99	15,373.56	7,888.97	204.72	206.18	90.00	1,600.30	-7,739.81	1,187.37	777.11	410.26	2.894			
15,300.00	7,888.99	15,473.56	7,888.97	207.39	208.83	90.00	1,600.74	-7,839.81	1,187.37	771.79	415.59	2.857			
15,400.00	7,888.99	15,573.56	7,888.98	210.05	211.49	90.00	1,601.18	-7,939.81	1,187.38	766.47	420.91	2.821			
15,500.00	7,888.99	15,673.55	7,888.98	212.71	214.14	90.00	1,601.62	-8,039.81	1,187.38	761.14	426.24	2.786			
15,600.00	7,888.99	15,773.55	7,888.98	215.38	216.80	90.00	1,602.06	-8,139.80	1,187.38	755.82	431.56	2.751			
15,700.00	7,888.99	15,873.55	7,888.98	218.05	219.45	90.00	1,602.49	-8,239.80	1,187.38	750.49	436.89	2.718			
15,800.00	7,888.99	15,973.55	7,888.98	220.71	222.11	90.00	1,602.93	-8,339.80	1,187.39	745.16	442.22	2.685			
15,900.00	7,888.99	16,073.55	7,888.98	223.38	224.76	90.00	1,603.37	-8,439.80	1,187.39	739.84	447.55	2.653			
16,000.00	7,888.99	16,173.55	7,888.98	226.05	227.42	90.00	1,603.81	-8,539.80	1,187.39	734.51	452.89	2.622			
16,100.00	7,888.99	16,273.55	7,888.98	228.71	230.08	90.00	1,604.25	-8,639.79	1,187.40	729.18	458.22	2.591			
16,200.00	7,888.99	16,373.54	7,888.98	231.38	232.74	90.00	1,604.69	-8,739.79	1,187.40	723.85	463.55	2.562			
16,300.00	7,888.99	16,473.54	7,888.98	234.05	235.40	90.00	1,605.13	-8,839.79	1,187.40	718.51	468.89	2.532			
16,400.00	7,888.99	16,573.54	7,888.98	236.72	238.06	90.00	1,605.57	-8,939.79	1,187.41	713.18	474.23	2.504			
16,500.00	7,888.99	16,673.54	7,888.98	239.39	240.72	90.00	1,606.02	-9,039.78	1,187.41	707.85	479.56	2.476			
16,600.00	7,888.99	16,773.54	7,888.99	242.06	243.38	90.00	1,606.46	-9,139.78	1,187.42	702.51	484.90	2.449			
16,700.00	7,888.99	16,873.54	7,888.99	244.73	246.05	90.00	1,606.90	-9,239.78	1,187.42	697.18	490.24	2.422			
16,800.00	7,888.99	16,973.54	7,888.99	247.40	248.71	90.00	1,607.34	-9,339.78	1,187.42	691.84	495.58	2.396			
16,900.00	7,888.99	17,073.53	7,888.99	250.07	251.37	90.00	1,607.78	-9,439.77	1,187.43	686.50	500.92	2.370			
17,000.00	7,888.99	17,173.53	7,888.99	252.75	254.04	90.00	1,608.22	-9,539.77	1,187.43	681.17	506.27	2.345			
17,100.00	7,888.99	17,273.53	7,888.99	255.42	256.70	90.00	1,608.66	-9,639.77	1,187.44	675.83	511.61	2.321			
17,200.00	7,888.99	17,373.53	7,888.99	258.09	259.37	90.00	1,609.10	-9,739.77	1,187.44	670.49	516.95	2.297			
17,300.00	7,888.99	17,473.53	7,888.99	260.76	262.03	90.00	1,609.54	-9,839.76	1,187.45	665.15	522.30	2.274			
17,400.00	7,888.99	17,573.53	7,888.99	263.44	264.70	90.00	1,609.98	-9,939.76	1,187.45	659.81	527.64	2.250			
17,500.00	7,888.99	17,673.53	7,888.99	266.11	267.37	90.00	1,610.43	-10,039.76	1,187.46	654.47	532.99	2.228			
17,600.00	7,888.99	17,773.52	7,889.00	268.78	270.03	90.00	1,610.87	-10,139.76	1,187.46	649.13	538.33	2.206			
17,700.00	7,888.99	17,873.52	7,889.00	271.46	272.70	90.00	1,611.31	-10,239.75	1,187.47	643.79	543.68	2.184			
17,800.00	7,888.99	17,973.52	7,889.00	274.13	275.37	90.00	1,611.75	-10,339.75	1,187.47	638.44	549.03	2.163			
17,900.00	7,888.99	18,073.52	7,889.00	276.81	278.04	90.00	1,612.19	-10,439.75	1,187.48	633.10	554.37	2.142			
17,917.28	7,889.00	18,090.80	7,889.00	277.27	278.50	90.00	1,612.27	-10,457.03	1,187.53	632.23	555.30	2.139 SF			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	36.56	36.56					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	36.56	36.56	36.29	0.27	135.993		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	36.56	36.56	35.58	0.99	37.089		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	36.56	36.56	34.86	1.70	21.473		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	36.56	36.56	34.14	2.42	15.110		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	36.56	36.56	33.43	3.14	11.657		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	36.56	36.56	32.71	3.85	9.488		
700.00	700.00	700.22	700.20	2.29	2.29	87.29	1.72	36.21	36.25	31.68	4.57	7.932		
800.00	800.00	800.19	800.02	2.64	2.65	78.98	6.85	35.16	35.82	30.53	5.29	6.775		
804.91	804.91	805.08	804.91	2.66	2.67	78.42	7.19	35.09	35.82	30.50	5.32	6.729	CC, ES	
900.00	900.00	899.67	899.13	3.00	3.01	65.34	15.34	33.42	36.78	30.78	6.01	6.123		
1,000.00	1,000.00	998.44	997.15	3.36	3.37	48.85	27.10	31.01	41.28	34.56	6.72	6.139		
1,100.00	1,099.98	1,096.52	1,094.04	3.72	3.76	63.32	42.05	27.95	50.04	42.61	7.43	6.736		
1,200.00	1,199.84	1,194.62	1,190.39	4.08	4.16	54.75	60.09	24.25	61.29	53.16	8.13	7.540		
1,202.60	1,202.43	1,202.80	1,192.92	4.09	4.19	54.59	60.58	24.15	61.59	53.42	8.17	7.539		
1,300.00	1,299.59	1,293.77	1,287.62	4.44	4.58	49.72	79.10	20.36	72.95	64.10	8.85	8.242		
1,400.00	1,399.34	1,407.08	1,384.85	4.80	5.07	46.09	98.11	16.46	85.01	75.38	9.64	8.823		
1,500.00	1,499.09	1,507.94	1,482.08	5.16	5.52	43.37	117.12	12.57	97.33	86.95	10.37	9.382		
1,600.00	1,598.84	1,608.79	1,579.31	5.53	5.97	41.27	136.13	8.67	109.81	98.70	11.11	9.881		
1,700.00	1,698.59	1,709.65	1,676.54	5.89	6.42	39.59	155.15	4.78	122.41	110.55	11.86	10.325		
1,800.00	1,798.34	1,789.50	1,773.77	6.26	6.79	38.23	174.16	0.89	135.09	122.57	12.52	10.793		
1,900.00	1,898.09	1,888.65	1,870.99	6.63	7.24	37.10	193.17	-3.01	147.83	134.58	13.25	11.154		
2,000.00	1,997.84	1,987.79	1,968.22	7.00	7.70	36.15	212.18	-6.90	160.63	146.63	13.99	11.479		
2,100.00	2,097.59	2,086.94	2,065.45	7.37	8.16	35.35	231.19	-10.80	173.45	158.72	14.73	11.774		
2,200.00	2,197.34	2,186.09	2,162.68	7.74	8.62	34.65	250.20	-14.69	186.31	170.84	15.47	12.042		
2,300.00	2,297.09	2,285.23	2,259.91	8.11	9.08	34.04	269.22	-18.59	199.19	182.98	16.21	12.287		
2,400.00	2,396.84	2,384.38	2,357.14	8.48	9.55	33.51	288.23	-22.48	212.09	195.14	16.95	12.511		
2,500.00	2,496.59	2,483.52	2,454.36	8.85	10.01	33.04	307.24	-26.38	225.01	207.32	17.69	12.716		
2,600.00	2,596.34	2,582.67	2,551.59	9.22	10.48	32.62	326.25	-30.27	237.94	219.50	18.44	12.906		
2,700.00	2,696.09	2,681.82	2,648.82	9.59	10.95	32.24	345.26	-34.17	250.88	231.70	19.18	13.081		
2,800.00	2,795.84	2,780.96	2,746.05	9.97	11.41	31.90	364.28	-38.06	263.83	243.91	19.92	13.244		
2,900.00	2,895.59	2,880.11	2,843.28	10.34	11.88	31.59	383.29	-41.96	276.79	256.13	20.66	13.395		
3,000.00	2,995.34	2,979.26	2,940.51	10.71	12.35	31.31	402.30	-45.85	289.76	268.35	21.41	13.535		
3,100.00	3,095.09	3,078.40	3,037.73	11.08	12.82	31.05	421.31	-49.75	302.73	280.58	22.15	13.667		
3,200.00	3,194.84	3,177.55	3,134.96	11.46	13.29	30.82	440.32	-53.64	315.71	292.82	22.89	13.790		
3,300.00	3,294.59	3,276.69	3,232.19	11.83	13.76	30.60	459.34	-57.53	328.69	305.05	23.64	13.905		
3,400.00	3,394.34	3,375.84	3,329.42	12.20	14.23	30.40	478.35	-61.43	341.68	317.30	24.38	14.013		
3,500.00	3,494.09	3,474.99	3,426.65	12.58	14.70	30.21	497.36	-65.32	354.67	329.55	25.13	14.115		
3,600.00	3,593.84	3,574.13	3,523.88	12.95	15.17	30.04	516.37	-69.22	367.67	341.80	25.87	14.212		
3,700.00	3,693.59	3,673.28	3,621.10	13.32	15.64	29.88	535.38	-73.11	380.66	354.05	26.62	14.303		
3,800.00	3,793.34	3,772.43	3,718.33	13.70	16.11	29.73	554.39	-77.01	393.66	366.30	27.36	14.388		
3,900.00	3,893.09	3,871.57	3,815.56	14.07	16.58	29.59	573.41	-80.90	406.67	378.56	28.10	14.470		
4,000.00	3,992.84	3,970.72	3,912.79	14.44	17.05	29.46	592.42	-84.80	419.67	390.82	28.85	14.547		
4,100.00	4,092.59	4,069.86	4,010.02	14.82	17.53	29.33	611.43	-88.69	432.68	403.09	29.59	14.620		
4,200.00	4,192.34	4,169.01	4,107.25	15.19	18.00	29.22	630.44	-92.59	445.69	415.35	30.34	14.690		
4,300.00	4,292.09	4,268.16	4,204.47	15.57	18.47	29.11	649.45	-96.48	458.70	427.62	31.08	14.757		
4,400.00	4,391.84	4,367.30	4,301.70	15.94	18.94	29.00	668.47	-100.38	471.71	439.88	31.83	14.820		
4,500.00	4,491.59	4,466.45	4,398.93	16.31	19.42	28.90	687.48	-104.27	484.73	452.15	32.57	14.880		
4,600.00	4,591.34	4,565.60	4,496.16	16.69	19.89	28.81	706.49	-108.17	497.74	464.42	33.32	14.938		
4,700.00	4,691.09	4,664.74	4,593.39	17.06	20.36	28.72	725.50	-112.06	510.76	476.69	34.07	14.993		
4,800.00	4,790.84	4,763.89	4,690.62	17.44	20.83	28.64	744.51	-115.95	523.78	488.96	34.81	15.046		
4,900.00	4,890.59	4,863.03	4,787.84	17.81	21.31	28.56	763.53	-119.85	536.79	501.24	35.56	15.097		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,990.34	4,962.18	4,885.07	18.19	21.78	28.48	782.54	-123.74	549.81	513.51	36.30	15.146		
5,100.00	5,090.09	5,061.33	4,982.30	18.56	22.25	28.41	801.55	-127.64	562.83	525.79	37.05	15.192		
5,200.00	5,189.84	5,160.47	5,079.53	18.93	22.73	28.34	820.56	-131.53	575.86	538.06	37.79	15.237		
5,300.00	5,289.59	5,259.62	5,176.76	19.31	23.20	28.27	839.57	-135.43	588.88	550.34	38.54	15.280		
5,400.00	5,389.34	5,358.77	5,273.99	19.68	23.67	28.21	858.58	-139.32	601.90	562.62	39.29	15.321		
5,500.00	5,489.09	5,457.91	5,371.21	20.06	24.15	28.15	877.60	-143.22	614.92	574.89	40.03	15.361		
5,600.00	5,588.84	5,557.06	5,468.44	20.43	24.62	28.09	896.61	-147.11	627.95	587.17	40.78	15.400		
5,700.00	5,688.59	5,656.20	5,565.67	20.81	25.10	28.03	915.62	-151.01	640.97	599.45	41.52	15.437		
5,800.00	5,788.34	5,755.35	5,662.90	21.18	25.57	27.98	934.63	-154.90	654.00	611.73	42.27	15.472		
5,900.00	5,888.09	5,854.50	5,760.13	21.56	26.04	27.93	953.64	-158.80	667.03	624.01	43.02	15.507		
6,000.00	5,987.84	5,953.64	5,857.36	21.93	26.52	27.88	972.66	-162.69	680.05	636.29	43.76	15.540		
6,100.00	6,087.59	6,052.79	5,954.58	22.30	26.99	27.83	991.67	-166.59	693.08	648.57	44.51	15.572		
6,200.00	6,187.34	6,151.93	6,051.81	22.68	27.46	27.78	1,010.68	-170.48	706.11	660.85	45.25	15.603		
6,300.00	6,287.09	6,251.08	6,149.04	23.05	27.94	27.74	1,029.69	-174.37	719.13	673.13	46.00	15.633		
6,400.00	6,386.84	6,350.23	6,246.27	23.43	28.41	27.70	1,048.70	-178.27	732.16	685.42	46.75	15.662		
6,500.00	6,486.59	6,449.37	6,343.50	23.80	28.89	27.65	1,067.72	-182.16	745.19	697.70	47.49	15.691		
6,600.00	6,586.34	6,548.52	6,440.73	24.18	29.36	27.61	1,086.73	-186.06	758.22	709.98	48.24	15.718		
6,700.00	6,686.09	6,647.67	6,537.95	24.55	29.83	27.58	1,105.74	-189.95	771.25	722.26	48.99	15.744		
6,800.00	6,785.84	6,763.26	6,651.44	24.93	30.38	27.54	1,127.28	-194.36	783.81	733.96	49.85	15.722		
6,900.00	6,885.59	6,899.74	6,786.34	25.30	30.97	27.58	1,147.49	-198.51	792.43	741.63	50.80	15.598		
7,000.00	6,985.34	7,037.01	6,922.85	25.68	31.49	27.71	1,161.46	-201.37	796.38	744.73	51.65	15.419		
7,098.48	7,083.57	7,172.35	7,057.96	26.04	31.95	27.92	1,168.94	-202.90	795.67	743.29	52.38	15.191		
7,100.00	7,085.09	7,174.44	7,060.05	26.05	31.95	27.92	1,169.00	-202.91	795.62	743.24	52.39	15.187		
7,200.00	7,184.95	7,299.33	7,184.92	26.42	32.32	28.10	1,170.45	-203.22	792.02	738.97	53.05	14.929		
7,293.37	7,278.30	7,391.25	7,276.41	26.75	32.58	27.57	1,170.48	-211.04	790.53	736.86	53.68	14.727		
7,299.99	7,284.91	7,397.64	7,282.70	26.77	32.60	27.50	1,170.49	-212.13	790.54	736.82	53.72	14.715		
7,301.08	7,286.00	7,398.69	7,283.74	26.77	32.60	-0.66	1,170.49	-212.31	790.54	736.82	53.73	14.713		
7,331.08	7,316.00	7,427.28	7,311.74	26.88	32.69	-1.08	1,170.52	-218.09	790.67	736.74	53.93	14.661		
7,350.00	7,334.92	7,445.07	7,329.00	26.94	32.75	88.37	1,170.53	-222.39	790.78	736.72	54.06	14.629		
7,400.00	7,384.76	7,491.51	7,373.35	27.12	32.89	87.59	1,170.59	-236.10	791.18	736.77	54.41	14.542		
7,450.00	7,434.07	7,537.19	7,415.76	27.30	33.05	86.82	1,170.67	-253.06	791.72	736.94	54.78	14.452		
7,500.00	7,482.49	7,582.17	7,456.07	27.49	33.20	86.09	1,170.76	-273.00	792.37	737.19	55.18	14.361		
7,550.00	7,529.64	7,626.52	7,494.16	27.69	33.35	85.38	1,170.86	-295.70	793.12	737.53	55.59	14.267		
7,600.00	7,575.16	7,670.30	7,529.92	27.90	33.51	84.71	1,170.97	-320.93	793.95	737.92	56.02	14.172		
7,650.00	7,618.71	7,713.55	7,563.26	28.11	33.68	84.07	1,171.09	-348.46	794.82	738.34	56.48	14.072		
7,700.00	7,659.96	7,756.34	7,594.11	28.34	33.84	83.48	1,171.22	-378.10	795.73	738.76	56.97	13.968		
7,750.00	7,698.59	7,798.71	7,622.40	28.59	34.02	82.93	1,171.36	-409.63	796.64	739.14	57.49	13.856		
7,800.00	7,734.31	7,840.71	7,648.06	28.86	34.21	82.43	1,171.50	-442.86	797.53	739.46	58.07	13.735		
7,850.00	7,766.84	7,882.38	7,671.05	29.16	34.41	81.97	1,171.65	-477.61	798.38	739.68	58.69	13.602		
7,900.00	7,795.95	7,923.77	7,691.32	29.49	34.62	81.57	1,171.81	-513.68	799.16	739.78	59.39	13.457		
7,950.00	7,821.40	7,964.92	7,708.85	29.86	34.86	81.23	1,171.98	-550.90	799.87	739.72	60.15	13.298		
8,000.00	7,843.01	8,005.87	7,723.59	30.28	35.11	80.94	1,172.14	-589.10	800.48	739.49	60.99	13.125		
8,050.00	7,860.61	8,046.66	7,735.53	30.74	35.39	80.71	1,172.31	-628.09	800.99	739.07	61.91	12.937		
8,100.00	7,874.06	8,087.33	7,744.64	31.25	35.70	80.54	1,172.49	-667.72	801.37	738.44	62.92	12.735		
8,150.00	7,883.26	8,127.91	7,750.90	31.80	36.04	80.43	1,172.66	-707.81	801.62	737.60	64.01	12.523		
8,200.00	7,888.15	8,168.45	7,754.31	32.39	36.40	80.38	1,172.84	-748.19	801.73	736.56	65.17	12.302		
8,231.14	7,889.00	8,193.69	7,754.99	32.77	36.63	80.38	1,172.95	-773.42	801.73	735.81	65.92	12.162		
8,234.25	7,889.00	8,196.82	7,755.00	32.81	36.67	80.38	1,172.96	-775.87	801.73	735.73	66.01	12.146		
8,300.00	7,889.00	8,261.89	7,755.00	33.66	37.34	80.38	1,173.25	-841.62	801.73	734.00	67.73	11.837		
8,400.00	7,889.00	8,361.89	7,755.00	35.10	38.52	80.38	1,173.69	-941.62	801.74	731.13	70.60	11.356		
8,500.00	7,889.00	8,461.89	7,755.00	36.68	39.87	80.38	1,174.13	-1,041.62	801.74	728.00	73.74	10.872		
8,600.00	7,889.00	8,561.89	7,755.00	38.38	41.36	80.38	1,174.57	-1,141.62	801.74	724.62	77.12	10.396		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,700.00	7,889.00	8,661.89	7,754.99	40.19	42.99	80.38	1,175.01	-1,241.62	801.74	721.04	80.71	9.934			
8,800.00	7,889.00	8,761.89	7,754.99	42.09	44.74	80.38	1,175.45	-1,341.62	801.75	717.27	84.48	9.491			
8,900.00	7,889.00	8,861.89	7,754.99	44.08	46.58	80.38	1,175.89	-1,441.62	801.75	713.34	88.40	9.069			
9,000.00	7,889.00	8,961.89	7,754.99	46.14	48.52	80.38	1,176.32	-1,541.61	801.75	709.28	92.47	8.670			
9,100.00	7,889.00	9,061.89	7,754.99	48.26	50.52	80.38	1,176.76	-1,641.61	801.75	705.10	96.66	8.295			
9,200.00	7,889.00	9,161.89	7,754.99	50.44	52.60	80.38	1,177.20	-1,741.61	801.76	700.80	100.95	7.942			
9,300.00	7,889.00	9,261.89	7,754.99	52.66	54.73	80.38	1,177.64	-1,841.61	801.76	696.42	105.34	7.611			
9,400.00	7,889.00	9,361.89	7,754.99	54.93	56.91	80.38	1,178.08	-1,941.61	801.76	691.96	109.81	7.302			
9,500.00	7,889.00	9,461.89	7,754.99	57.23	59.14	80.38	1,178.52	-2,041.61	801.76	687.42	114.35	7.012			
9,600.00	7,889.00	9,561.89	7,754.98	59.56	61.40	80.38	1,178.96	-2,141.61	801.76	682.81	118.95	6.740			
9,700.00	7,889.00	9,661.89	7,754.98	61.93	63.70	80.38	1,179.40	-2,241.61	801.77	678.16	123.61	6.486			
9,800.00	7,889.00	9,761.89	7,754.98	64.31	66.04	80.38	1,179.84	-2,341.61	801.77	673.45	128.32	6.248			
9,900.00	7,889.00	9,861.89	7,754.98	66.73	68.39	80.38	1,180.28	-2,441.61	801.77	668.69	133.08	6.025			
10,000.00	7,889.00	9,961.89	7,754.98	69.16	70.78	80.38	1,180.71	-2,541.60	801.77	663.90	137.88	5.815			
10,100.00	7,889.00	10,061.89	7,754.98	71.61	73.18	80.38	1,181.15	-2,641.60	801.78	659.07	142.71	5.618			
10,200.00	7,889.00	10,161.89	7,754.98	74.08	75.61	80.38	1,181.59	-2,741.60	801.78	654.20	147.58	5.433			
10,300.00	7,889.00	10,261.89	7,754.98	76.56	78.05	80.38	1,182.03	-2,841.60	801.78	649.31	152.47	5.258			
10,400.00	7,889.00	10,361.89	7,754.97	79.06	80.51	80.38	1,182.47	-2,941.60	801.78	644.39	157.40	5.094			
10,500.00	7,889.00	10,461.89	7,754.97	81.56	82.98	80.38	1,182.91	-3,041.60	801.79	639.44	162.35	4.939			
10,600.00	7,889.00	10,561.89	7,754.97	84.08	85.47	80.38	1,183.35	-3,141.60	801.79	634.47	167.32	4.792			
10,700.00	7,889.00	10,661.89	7,754.97	86.61	87.97	80.38	1,183.79	-3,241.60	801.79	629.48	172.31	4.653			
10,800.00	7,889.00	10,761.89	7,754.97	89.15	90.48	80.38	1,184.23	-3,341.60	801.79	624.48	177.32	4.522			
10,900.00	7,889.00	10,861.89	7,754.97	91.70	93.00	80.38	1,184.66	-3,441.60	801.80	619.45	182.34	4.397			
11,000.00	7,889.00	10,961.89	7,754.97	94.26	95.53	80.38	1,185.10	-3,541.59	801.80	614.41	187.39	4.279			
11,100.00	7,889.00	11,061.89	7,754.97	96.82	98.07	80.38	1,185.54	-3,641.59	801.80	609.36	192.44	4.166			
11,200.00	7,889.00	11,161.89	7,754.96	99.39	100.61	80.38	1,185.98	-3,741.59	801.80	604.29	197.51	4.059			
11,300.00	7,889.00	11,261.89	7,754.96	101.97	103.17	80.38	1,186.42	-3,841.59	801.80	599.21	202.60	3.958			
11,400.00	7,889.00	11,361.89	7,754.96	104.55	105.73	80.38	1,186.86	-3,941.59	801.81	594.12	207.69	3.861			
11,500.00	7,889.00	11,461.89	7,754.96	107.13	108.30	80.38	1,187.30	-4,041.59	801.81	589.01	212.80	3.768			
11,600.00	7,889.00	11,561.89	7,754.96	109.73	110.87	80.38	1,187.74	-4,141.59	801.81	583.90	217.91	3.680			
11,700.00	7,889.00	11,661.89	7,754.96	112.32	113.45	80.38	1,188.18	-4,241.59	801.81	578.78	223.03	3.595			
11,800.00	7,889.00	11,761.89	7,754.96	114.92	116.03	80.38	1,188.62	-4,341.59	801.82	573.65	228.17	3.514			
11,900.00	7,889.00	11,861.89	7,754.96	117.53	118.62	80.38	1,189.05	-4,441.59	801.82	568.51	233.31	3.437			
12,000.00	7,889.00	11,961.89	7,754.96	120.14	121.21	80.38	1,189.49	-4,541.59	801.82	563.37	238.46	3.363			
12,100.00	7,889.00	12,061.89	7,754.95	122.75	123.81	80.38	1,189.93	-4,641.58	801.82	558.21	243.61	3.291			
12,200.00	7,889.00	12,161.89	7,754.95	125.36	126.41	80.38	1,190.37	-4,741.58	801.83	553.05	248.77	3.223			
12,300.00	7,889.00	12,261.89	7,754.95	127.98	129.02	80.38	1,190.81	-4,841.58	801.83	547.89	253.94	3.158			
12,400.00	7,888.99	12,361.89	7,754.95	130.60	131.63	80.38	1,191.25	-4,941.58	801.83	542.72	259.11	3.095			
12,500.00	7,888.99	12,461.89	7,754.95	133.23	134.24	80.38	1,191.69	-5,041.58	801.83	537.54	264.29	3.034			
12,600.00	7,888.99	12,561.89	7,754.95	135.85	136.85	80.38	1,192.13	-5,141.58	801.84	532.36	269.48	2.976			
12,700.00	7,888.99	12,661.89	7,754.95	138.48	139.47	80.38	1,192.57	-5,241.58	801.84	527.17	274.67	2.919			
12,800.00	7,888.99	12,761.89	7,754.95	141.12	142.09	80.38	1,193.00	-5,341.58	801.84	521.98	279.86	2.865			
12,900.00	7,888.99	12,861.89	7,754.94	143.75	144.71	80.38	1,193.44	-5,441.58	801.84	516.78	285.06	2.813			
13,000.00	7,888.99	12,961.89	7,754.94	146.38	147.34	80.38	1,193.88	-5,541.58	801.84	511.58	290.26	2.762			
13,100.00	7,888.99	13,061.89	7,754.94	149.02	149.96	80.38	1,194.32	-5,641.57	801.85	506.38	295.47	2.714			
13,200.00	7,888.99	13,161.89	7,754.94	151.66	152.59	80.38	1,194.76	-5,741.57	801.85	501.17	300.68	2.667			
13,300.00	7,888.99	13,261.89	7,754.94	154.30	155.23	80.38	1,195.20	-5,841.57	801.85	495.96	305.89	2.621			
13,400.00	7,888.99	13,361.89	7,754.94	156.94	157.86	80.38	1,195.64	-5,941.57	801.85	490.75	311.11	2.577			
13,500.00	7,888.99	13,461.89	7,754.94	159.59	160.50	80.38	1,196.08	-6,041.57	801.86	485.53	316.33	2.535			
13,600.00	7,888.99	13,561.89	7,754.94	162.24	163.13	80.38	1,196.52	-6,141.57	801.86	480.31	321.55	2.494			
13,700.00	7,888.99	13,661.89	7,754.94	164.88	165.77	80.38	1,196.96	-6,241.57	801.86	475.08	326.78	2.454			
13,800.00	7,888.99	13,761.89	7,754.93	167.53	168.41	80.38	1,197.39	-6,341.57	801.86	469.86	332.01	2.415			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,888.99	13,861.89	7,754.93	170.18	171.06	80.38	1,197.83	-6,441.57	801.87	464.63	337.24	2.378		
14,000.00	7,888.99	13,961.89	7,754.93	172.83	173.70	80.38	1,198.27	-6,541.57	801.87	459.40	342.47	2.341		
14,100.00	7,888.99	14,061.89	7,754.93	175.48	176.34	80.38	1,198.71	-6,641.57	801.87	454.16	347.71	2.306		
14,200.00	7,888.99	14,161.89	7,754.93	178.14	178.99	80.38	1,199.15	-6,741.56	801.87	448.93	352.95	2.272		
14,300.00	7,888.99	14,261.89	7,754.93	180.79	181.64	80.38	1,199.59	-6,841.56	801.88	443.69	358.19	2.239		
14,400.00	7,888.99	14,361.89	7,754.93	183.45	184.29	80.38	1,200.03	-6,941.56	801.88	438.45	363.43	2.206		
14,500.00	7,888.99	14,461.89	7,754.93	186.10	186.94	80.38	1,200.47	-7,041.56	801.88	433.21	368.67	2.175		
14,600.00	7,888.99	14,561.89	7,754.92	188.76	189.59	80.38	1,200.91	-7,141.56	801.88	427.96	373.92	2.145		
14,700.00	7,888.99	14,661.89	7,754.92	191.42	192.24	80.38	1,201.34	-7,241.56	801.88	422.72	379.17	2.115		
14,800.00	7,888.99	14,761.89	7,754.92	194.08	194.90	80.38	1,201.78	-7,341.56	801.89	417.47	384.42	2.086		
14,900.00	7,888.99	14,861.89	7,754.92	196.74	197.55	80.38	1,202.22	-7,441.56	801.89	412.22	389.67	2.058		
15,000.00	7,888.99	14,961.89	7,754.92	199.40	200.21	80.38	1,202.66	-7,541.56	801.89	406.97	394.92	2.030		
15,100.00	7,888.99	15,061.89	7,754.92	202.06	202.86	80.38	1,203.10	-7,641.56	801.89	401.72	400.18	2.004		
15,200.00	7,888.99	15,161.89	7,754.92	204.72	205.52	80.38	1,203.54	-7,741.55	801.90	396.46	405.44	1.978		
15,300.00	7,888.99	15,261.89	7,754.92	207.39	208.18	80.38	1,203.98	-7,841.55	801.90	391.21	410.69	1.953		
15,400.00	7,888.99	15,361.89	7,754.91	210.05	210.84	80.38	1,204.42	-7,941.55	801.90	385.95	415.95	1.928		
15,500.00	7,888.99	15,461.89	7,754.91	212.71	213.50	80.38	1,204.86	-8,041.55	801.90	380.69	421.21	1.904		
15,600.00	7,888.99	15,561.89	7,754.91	215.38	216.16	80.37	1,205.29	-8,141.55	801.91	375.43	426.47	1.880		
15,700.00	7,888.99	15,661.89	7,754.91	218.05	218.82	80.37	1,205.73	-8,241.55	801.91	370.17	431.74	1.857		
15,800.00	7,888.99	15,761.89	7,754.91	220.71	221.48	80.37	1,206.17	-8,341.55	801.91	364.91	437.00	1.835		
15,900.00	7,888.99	15,861.89	7,754.91	223.38	224.14	80.37	1,206.61	-8,441.55	801.91	359.65	442.27	1.813		
16,000.00	7,888.99	15,961.89	7,754.91	226.05	226.80	80.37	1,207.05	-8,541.55	801.92	354.38	447.53	1.792		
16,100.00	7,888.99	16,061.89	7,754.91	228.71	229.47	80.37	1,207.49	-8,641.55	801.92	349.12	452.80	1.771		
16,200.00	7,888.99	16,161.89	7,754.91	231.38	232.13	80.37	1,207.93	-8,741.54	801.92	343.85	458.07	1.751		
16,300.00	7,888.99	16,261.89	7,754.90	234.05	234.80	80.37	1,208.37	-8,841.54	801.92	338.58	463.34	1.731		
16,400.00	7,888.99	16,361.89	7,754.90	236.72	237.46	80.37	1,208.81	-8,941.54	801.93	333.31	468.61	1.711		
16,500.00	7,888.99	16,461.89	7,754.90	239.39	240.13	80.37	1,209.25	-9,041.54	801.93	328.05	473.88	1.692		
16,600.00	7,888.99	16,561.89	7,754.90	242.06	242.79	80.37	1,209.68	-9,141.54	801.93	322.78	479.15	1.674		
16,700.00	7,888.99	16,661.89	7,754.90	244.73	245.46	80.37	1,210.12	-9,241.54	801.93	317.51	484.43	1.655		
16,800.00	7,888.99	16,761.89	7,754.90	247.40	248.13	80.37	1,210.56	-9,341.54	801.93	312.23	489.70	1.638		
16,900.00	7,888.99	16,861.89	7,754.90	250.07	250.80	80.37	1,211.00	-9,441.54	801.94	306.96	494.98	1.620		
17,000.00	7,888.99	16,961.89	7,754.90	252.75	253.47	80.37	1,211.44	-9,541.54	801.94	301.69	500.25	1.603		
17,100.00	7,888.99	17,061.89	7,754.89	255.42	256.13	80.37	1,211.88	-9,641.54	801.94	296.41	505.53	1.586		
17,200.00	7,888.99	17,161.89	7,754.89	258.09	258.80	80.37	1,212.32	-9,741.54	801.94	291.14	510.81	1.570		
17,300.00	7,888.99	17,261.89	7,754.89	260.76	261.47	80.37	1,212.76	-9,841.53	801.95	285.86	516.08	1.554		
17,400.00	7,888.99	17,361.89	7,754.89	263.44	264.14	80.37	1,213.20	-9,941.53	801.95	280.59	521.36	1.538		
17,500.00	7,888.99	17,461.89	7,754.89	266.11	266.81	80.37	1,213.63	-10,041.53	801.95	275.31	526.64	1.523		
17,600.00	7,888.99	17,561.89	7,754.89	268.78	269.49	80.37	1,214.07	-10,141.53	801.95	270.03	531.92	1.508		
17,700.00	7,888.99	17,661.89	7,754.89	271.46	272.16	80.37	1,214.51	-10,241.53	801.96	264.75	537.20	1.493 Level 3		
17,800.00	7,888.99	17,761.89	7,754.89	274.13	274.83	80.37	1,214.95	-10,341.53	801.96	259.48	542.48	1.478 Level 3		
17,900.00	7,888.99	17,864.60	7,754.98	276.81	277.57	80.38	1,215.20	-10,444.23	801.75	253.96	547.79	1.464 Level 3		
17,912.96	7,888.99	17,877.56	7,755.00	277.15	277.92	80.38	1,215.21	-10,457.20	801.70	253.23	548.47	1.462 Level 3		
17,917.28	7,889.00	17,881.88	7,755.00	277.27	278.03	80.38	1,215.22	-10,461.52	801.74	253.04	548.70	1.461 Level 3, SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	16.87	16.87					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	16.87	16.87	16.61	0.27	62.766		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	16.87	16.87	15.89	0.99	17.118		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	16.87	16.87	15.17	1.70	9.910		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	16.87	16.87	14.46	2.42	6.974		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	16.87	16.87	13.74	3.14	5.380		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	16.87	16.87	13.02	3.85	4.379		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	16.87	16.87	12.30	4.57	3.692		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	16.87	16.87	11.59	5.29	3.192		
900.00	900.00	900.12	900.10	3.00	3.00	84.14	1.68	16.40	16.48	10.48	6.00	2.746		
962.27	962.27	962.35	962.27	3.23	3.23	74.18	4.43	15.62	16.24	9.79	6.45	2.517 CC		
1,000.00	1,000.00	1,000.00	999.83	3.36	3.36	65.85	6.71	14.97	16.41	9.69	6.72	2.442		
1,100.00	1,099.98	1,099.54	1,099.00	3.72	3.72	72.88	15.05	12.61	19.08	11.65	7.43	2.567		
1,200.00	1,199.84	1,198.98	1,197.71	4.08	4.09	59.64	26.58	9.35	24.11	15.97	8.14	2.963		
1,202.60	1,202.43	1,201.58	1,200.28	4.09	4.10	59.42	26.91	9.25	24.25	16.09	8.16	2.973		
1,300.00	1,299.59	1,301.21	1,296.67	4.44	4.47	52.87	39.07	5.81	29.58	20.71	8.87	3.336		
1,400.00	1,399.34	1,398.59	1,395.62	4.80	4.85	48.26	51.55	2.27	35.33	25.75	9.58	3.686		
1,500.00	1,499.09	1,501.61	1,494.57	5.16	5.25	44.95	64.03	-1.26	41.24	30.92	10.32	3.995		
1,600.00	1,598.84	1,601.81	1,593.53	5.53	5.64	42.48	76.52	-4.80	47.25	36.20	11.05	4.276		
1,700.00	1,698.59	1,702.01	1,692.48	5.89	6.04	40.57	89.00	-8.34	53.34	41.55	11.78	4.527		
1,800.00	1,798.34	1,797.79	1,791.43	6.26	6.42	39.05	101.49	-11.87	59.47	46.97	12.50	4.758		
1,900.00	1,898.09	1,902.41	1,890.39	6.63	6.84	37.82	113.97	-15.41	65.63	52.38	13.25	4.954		
2,000.00	1,997.84	2,002.61	1,989.34	7.00	7.24	36.80	126.46	-18.94	71.82	57.84	13.98	5.137		
2,100.00	2,097.59	2,102.81	2,088.30	7.37	7.64	35.94	138.94	-22.48	78.02	63.31	14.71	5.302		
2,200.00	2,197.34	2,203.01	2,187.25	7.74	8.05	35.21	151.43	-26.02	84.25	68.80	15.45	5.453		
2,300.00	2,297.09	2,303.20	2,286.20	8.11	8.45	34.57	163.91	-29.55	90.48	74.30	16.18	5.591		
2,400.00	2,396.84	2,403.40	2,385.16	8.48	8.86	34.02	176.40	-33.09	96.72	79.80	16.92	5.717		
2,500.00	2,496.59	2,503.60	2,484.11	8.85	9.27	33.54	188.88	-36.63	102.97	85.32	17.65	5.833		
2,600.00	2,596.34	2,603.80	2,583.06	9.22	9.68	33.11	201.37	-40.16	109.23	90.84	18.39	5.940		
2,700.00	2,696.09	2,704.00	2,682.02	9.59	10.09	32.73	213.85	-43.70	115.49	96.37	19.13	6.039		
2,800.00	2,795.84	2,804.20	2,780.97	9.97	10.49	32.39	226.33	-47.23	121.76	101.90	19.86	6.130		
2,900.00	2,895.59	2,904.40	2,879.93	10.34	10.90	32.08	238.82	-50.77	128.03	107.44	20.60	6.216		
3,000.00	2,995.34	3,004.60	2,978.88	10.71	11.32	31.80	251.30	-54.31	134.31	112.97	21.33	6.295		
3,100.00	3,095.09	3,104.80	3,077.83	11.08	11.73	31.54	263.79	-57.84	140.59	118.51	22.07	6.370		
3,200.00	3,194.84	3,205.00	3,176.79	11.46	12.14	31.31	276.27	-61.38	146.87	124.06	22.81	6.439		
3,300.00	3,294.59	3,294.80	3,275.74	11.83	12.51	31.10	288.76	-64.92	153.15	129.64	23.51	6.515		
3,400.00	3,394.34	3,405.40	3,374.69	12.20	12.96	30.90	301.24	-68.45	159.43	135.15	24.28	6.566		
3,500.00	3,494.09	3,505.59	3,473.65	12.58	13.37	30.72	313.73	-71.99	165.72	140.70	25.02	6.624		
3,600.00	3,593.84	3,605.79	3,572.60	12.95	13.78	30.55	326.21	-75.53	172.01	146.25	25.76	6.678		
3,700.00	3,693.59	3,705.99	3,671.56	13.32	14.20	30.39	338.70	-79.06	178.30	151.80	26.49	6.730		
3,800.00	3,793.34	3,793.81	3,770.51	13.70	14.56	30.24	351.18	-82.60	184.59	157.40	27.18	6.790		
3,900.00	3,893.09	3,906.39	3,869.46	14.07	15.02	30.11	363.67	-86.13	190.88	162.91	27.97	6.825		
4,000.00	3,992.84	3,993.41	3,968.42	14.44	15.38	29.98	376.15	-89.67	197.17	168.51	28.66	6.881		
4,100.00	4,092.59	4,106.79	4,067.37	14.82	15.85	29.86	388.63	-93.21	203.46	174.02	29.44	6.910		
4,200.00	4,192.34	4,193.01	4,166.32	15.19	16.20	29.75	401.12	-96.74	209.76	179.63	30.13	6.962		
4,300.00	4,292.09	4,307.19	4,265.28	15.57	16.67	29.64	413.60	-100.28	216.05	185.14	30.92	6.988		
4,400.00	4,391.84	4,407.39	4,364.23	15.94	17.09	29.54	426.09	-103.82	222.35	190.69	31.66	7.024		
4,500.00	4,491.59	4,507.59	4,463.19	16.31	17.50	29.45	438.57	-107.35	228.65	196.25	32.39	7.058		
4,600.00	4,591.34	4,607.78	4,562.14	16.69	17.91	29.36	451.06	-110.89	234.94	201.81	33.13	7.091		
4,700.00	4,691.09	4,707.98	4,661.09	17.06	18.33	29.27	463.54	-114.42	241.24	207.37	33.87	7.123		
4,800.00	4,790.84	4,808.18	4,760.05	17.44	18.74	29.19	476.03	-117.96	247.54	212.93	34.61	7.153		
4,900.00	4,890.59	4,908.38	4,859.00	17.81	19.15	29.11	488.51	-121.50	253.84	218.49	35.35	7.182		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program:													0-MWD OWSG	Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,990.34	5,008.58	4,957.95	18.19	19.57	29.04	501.00	-125.03	260.14	224.05	36.08	7.209			
5,100.00	5,090.09	5,091.22	5,056.91	18.56	19.91	28.97	513.48	-128.57	266.44	229.68	36.76	7.249			
5,200.00	5,189.84	5,191.02	5,155.86	18.93	20.32	28.90	525.97	-132.11	272.74	235.24	37.49	7.274			
5,300.00	5,289.59	5,309.18	5,254.82	19.31	20.81	28.84	538.45	-135.64	279.04	240.74	38.30	7.286			
5,400.00	5,389.34	5,409.38	5,353.77	19.68	21.22	28.78	550.93	-139.18	285.34	246.30	39.04	7.309			
5,500.00	5,489.09	5,509.58	5,452.72	20.06	21.64	28.72	563.42	-142.71	291.64	251.86	39.77	7.332			
5,600.00	5,588.84	5,609.78	5,551.68	20.43	22.05	28.67	575.90	-146.25	297.94	257.43	40.51	7.354			
5,700.00	5,688.59	5,690.03	5,650.63	20.81	22.38	28.61	588.39	-149.79	304.24	263.06	41.18	7.389			
5,800.00	5,788.34	5,789.83	5,749.58	21.18	22.80	28.56	600.87	-153.32	310.54	268.63	41.91	7.409			
5,900.00	5,888.09	5,889.63	5,848.54	21.56	23.21	28.51	613.36	-156.86	316.84	274.19	42.65	7.429			
6,000.00	5,987.84	5,989.43	5,947.49	21.93	23.62	28.47	625.84	-160.40	323.14	279.76	43.39	7.448			
6,100.00	6,087.59	6,089.23	6,046.45	22.30	24.03	28.42	638.33	-163.93	329.45	285.32	44.12	7.466			
6,200.00	6,187.34	6,189.03	6,145.40	22.68	24.45	28.38	650.81	-167.47	335.75	290.89	44.86	7.484			
6,300.00	6,287.09	6,288.83	6,244.35	23.05	24.86	28.34	663.30	-171.00	342.05	296.45	45.60	7.502			
6,400.00	6,386.84	6,388.63	6,343.31	23.43	25.27	28.30	675.78	-174.54	348.35	302.02	46.33	7.518			
6,500.00	6,486.59	6,488.43	6,442.26	23.80	25.69	28.26	688.27	-178.08	354.66	307.59	47.07	7.534			
6,600.00	6,586.34	6,588.23	6,541.21	24.18	26.10	28.22	700.75	-181.61	360.96	313.15	47.81	7.550			
6,700.00	6,686.09	6,688.03	6,640.17	24.55	26.51	28.18	713.23	-185.15	367.26	318.72	48.55	7.565			
6,800.00	6,785.84	6,787.84	6,739.12	24.93	26.92	28.15	725.72	-188.69	373.57	324.28	49.28	7.580			
6,900.00	6,885.59	6,887.64	6,838.08	25.30	27.34	28.11	738.20	-192.22	379.87	329.85	50.02	7.595			
7,000.00	6,985.34	6,987.44	6,937.03	25.68	27.75	28.08	750.69	-195.76	386.17	335.42	50.76	7.608			
7,098.48	7,083.57	7,097.01	7,045.83	26.04	28.19	28.10	763.17	-199.29	391.31	339.75	51.56	7.589			
7,100.00	7,085.09	7,098.77	7,047.58	26.05	28.20	28.10	763.34	-199.34	391.36	339.79	51.57	7.589			
7,200.00	7,184.95	7,213.91	7,162.35	26.42	28.63	28.18	772.16	-201.84	394.38	342.03	52.35	7.534			
7,299.99	7,284.91	7,329.18	7,277.52	26.77	29.03	28.16	776.53	-203.08	396.60	343.56	53.04	7.477			
7,301.08	7,286.00	7,330.44	7,278.78	26.77	29.03	0.02	776.56	-203.09	396.62	343.57	53.05	7.477			
7,331.08	7,316.00	7,365.05	7,313.38	26.88	29.15	0.00	776.99	-203.21	396.99	343.75	53.24	7.457			
7,350.00	7,334.92	7,386.88	7,335.22	26.94	29.22	89.80	777.05	-203.23	397.05	343.69	53.36	7.441			
7,355.09	7,340.01	7,392.75	7,341.09	26.96	29.24	89.83	777.04	-203.22	397.04	343.65	53.39	7.436			
7,400.00	7,384.76	7,436.51	7,384.83	27.12	29.38	90.29	777.05	-203.64	397.05	343.32	53.73	7.390			
7,450.00	7,434.07	7,486.69	7,434.84	27.30	29.54	90.88	777.07	-207.75	397.09	342.98	54.11	7.338			
7,500.00	7,482.49	7,537.25	7,484.65	27.49	29.71	91.46	777.11	-216.29	397.18	342.67	54.51	7.286			
7,550.00	7,529.64	7,588.17	7,533.86	27.69	29.89	92.04	777.16	-229.29	397.30	342.38	54.92	7.234			
7,600.00	7,575.16	7,639.46	7,582.07	27.90	30.07	92.60	777.24	-246.76	397.46	342.11	55.35	7.181			
7,650.00	7,618.71	7,691.12	7,628.85	28.11	30.27	93.14	777.34	-268.63	397.65	341.85	55.79	7.127			
7,700.00	7,659.96	7,743.14	7,673.77	28.34	30.47	93.66	777.45	-294.82	397.86	341.60	56.26	7.071			
7,750.00	7,698.59	7,795.51	7,716.41	28.59	30.68	94.15	777.58	-325.19	398.10	341.34	56.76	7.014			
7,800.00	7,734.31	7,848.21	7,756.35	28.86	30.90	94.61	777.73	-359.56	398.34	341.05	57.29	6.953			
7,850.00	7,766.84	7,901.23	7,793.16	29.16	31.15	95.04	777.90	-397.69	398.59	340.72	57.88	6.887			
7,900.00	7,795.95	7,954.55	7,826.47	29.49	31.42	95.42	778.08	-439.30	398.84	340.32	58.52	6.816			
7,950.00	7,821.40	8,008.14	7,855.91	29.86	31.72	95.76	778.28	-484.05	399.07	339.84	59.23	6.738			
8,000.00	7,843.01	8,061.96	7,881.15	30.28	32.07	96.06	778.49	-531.57	399.28	339.27	60.01	6.653			
8,050.00	7,860.61	8,115.99	7,901.88	30.74	32.47	96.30	778.70	-581.44	399.47	338.58	60.89	6.561			
8,100.00	7,874.06	8,170.19	7,917.87	31.25	32.93	96.50	778.93	-633.21	399.62	337.77	61.85	6.461			
8,150.00	7,883.26	8,224.52	7,928.91	31.80	33.44	96.64	779.16	-686.38	399.73	336.83	62.90	6.355			
8,200.00	7,888.15	8,278.94	7,934.88	32.39	34.01	96.73	779.40	-740.45	399.80	335.77	64.03	6.244			
8,231.14	7,889.00	8,312.86	7,936.00	32.77	34.39	96.75	779.55	-774.35	399.82	335.05	64.77	6.173			
8,300.00	7,889.00	8,381.87	7,936.00	33.66	35.22	96.75	779.85	-843.36	399.82	333.25	66.57	6.006			
8,400.00	7,889.00	8,481.87	7,936.00	35.10	36.56	96.75	780.29	-943.36	399.82	330.39	69.44	5.758			
8,500.00	7,889.00	8,581.87	7,936.00	36.68	38.06	96.75	780.72	-1,043.35	399.82	327.24	72.58	5.509			
8,600.00	7,889.00	8,681.87	7,936.00	38.38	39.69	96.75	781.16	-1,143.35	399.82	323.85	75.97	5.263			
8,700.00	7,889.00	8,781.87	7,936.00	40.19	41.43	96.75	781.60	-1,243.35	399.82	320.24	79.58	5.024			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	7,889.00	8,881.87	7,936.00	42.09	43.28	96.75	782.03	-1,343.35	399.82	316.45	83.37	4.796		
8,900.00	7,889.00	8,981.87	7,936.00	44.08	45.21	96.75	782.47	-1,443.35	399.82	312.49	87.33	4.578		
9,000.00	7,889.00	9,081.87	7,936.00	46.14	47.22	96.75	782.91	-1,543.35	399.82	308.40	91.43	4.373		
9,100.00	7,889.00	9,181.87	7,936.00	48.26	49.29	96.75	783.35	-1,643.35	399.82	304.18	95.65	4.180		
9,200.00	7,889.00	9,281.87	7,936.00	50.44	51.43	96.75	783.78	-1,743.35	399.82	299.85	99.97	3.999		
9,300.00	7,889.00	9,381.87	7,935.99	52.66	53.61	96.75	784.22	-1,843.35	399.83	295.43	104.40	3.830		
9,400.00	7,889.00	9,481.87	7,935.99	54.93	55.84	96.75	784.66	-1,943.35	399.83	290.92	108.90	3.671		
9,500.00	7,889.00	9,581.87	7,935.99	57.23	58.11	96.75	785.09	-2,043.34	399.83	286.35	113.48	3.523		
9,600.00	7,889.00	9,681.87	7,935.99	59.56	60.42	96.75	785.53	-2,143.34	399.83	281.71	118.12	3.385		
9,700.00	7,889.00	9,781.87	7,935.99	61.93	62.75	96.75	785.97	-2,243.34	399.83	277.01	122.82	3.255		
9,800.00	7,889.00	9,881.87	7,935.99	64.31	65.12	96.75	786.41	-2,343.34	399.83	272.26	127.57	3.134		
9,900.00	7,889.00	9,981.87	7,935.99	66.73	67.50	96.75	786.84	-2,443.34	399.83	267.46	132.37	3.021		
10,000.00	7,889.00	10,081.87	7,935.99	69.16	69.91	96.75	787.28	-2,543.34	399.83	262.63	137.20	2.914		
10,100.00	7,889.00	10,181.87	7,935.99	71.61	72.34	96.75	787.72	-2,643.34	399.83	257.75	142.07	2.814		
10,200.00	7,889.00	10,281.87	7,935.99	74.08	74.79	96.75	788.16	-2,743.34	399.83	252.85	146.98	2.720		
10,300.00	7,889.00	10,381.87	7,935.99	76.56	77.26	96.75	788.59	-2,843.34	399.83	247.92	151.91	2.632		
10,400.00	7,889.00	10,481.87	7,935.99	79.06	79.74	96.75	789.03	-2,943.34	399.83	242.95	156.88	2.549		
10,500.00	7,889.00	10,581.87	7,935.99	81.56	82.23	96.75	789.47	-3,043.34	399.83	237.97	161.86	2.470		
10,600.00	7,889.00	10,681.87	7,935.99	84.08	84.73	96.75	789.90	-3,143.33	399.83	232.96	166.87	2.396		
10,700.00	7,889.00	10,781.87	7,935.99	86.61	87.25	96.75	790.34	-3,243.33	399.83	227.93	171.90	2.326		
10,800.00	7,889.00	10,881.87	7,935.99	89.15	89.77	96.75	790.78	-3,343.33	399.83	222.89	176.94	2.260		
10,900.00	7,889.00	10,981.87	7,935.99	91.70	92.31	96.75	791.22	-3,443.33	399.83	217.82	182.01	2.197		
11,000.00	7,889.00	11,081.87	7,935.99	94.26	94.85	96.75	791.65	-3,543.33	399.83	212.74	187.09	2.137		
11,100.00	7,889.00	11,181.87	7,935.99	96.82	97.40	96.75	792.09	-3,643.33	399.83	207.65	192.18	2.080		
11,200.00	7,889.00	11,281.87	7,935.99	99.39	99.96	96.75	792.53	-3,743.33	399.83	202.54	197.29	2.027		
11,300.00	7,889.00	11,381.87	7,935.99	101.97	102.53	96.75	792.96	-3,843.33	399.83	197.43	202.41	1.975		
11,400.00	7,889.00	11,481.87	7,935.98	104.55	105.10	96.75	793.40	-3,943.33	399.83	192.30	207.54	1.927		
11,500.00	7,889.00	11,581.87	7,935.98	107.13	107.68	96.75	793.84	-4,043.33	399.83	187.15	212.68	1.880		
11,600.00	7,889.00	11,681.87	7,935.98	109.73	110.26	96.75	794.28	-4,143.32	399.83	182.00	217.83	1.836		
11,700.00	7,889.00	11,781.87	7,935.98	112.32	112.85	96.75	794.71	-4,243.32	399.84	176.84	222.99	1.793		
11,800.00	7,889.00	11,881.87	7,935.98	114.92	115.44	96.75	795.15	-4,343.32	399.84	171.68	228.16	1.752		
11,900.00	7,889.00	11,981.87	7,935.98	117.53	118.04	96.75	795.59	-4,443.32	399.84	166.50	233.34	1.714		
12,000.00	7,889.00	12,081.87	7,935.98	120.14	120.64	96.75	796.02	-4,543.32	399.84	161.32	238.52	1.676		
12,100.00	7,889.00	12,181.87	7,935.98	122.75	123.25	96.75	796.46	-4,643.32	399.84	156.13	243.71	1.641		
12,200.00	7,889.00	12,281.87	7,935.98	125.36	125.85	96.75	796.90	-4,743.32	399.84	150.93	248.91	1.606		
12,300.00	7,889.00	12,381.87	7,935.98	127.98	128.47	96.75	797.34	-4,843.32	399.84	145.73	254.11	1.573		
12,400.00	7,888.99	12,481.87	7,935.98	130.60	131.08	96.75	797.77	-4,943.32	399.84	140.52	259.32	1.542		
12,500.00	7,888.99	12,581.87	7,935.98	133.23	133.70	96.75	798.21	-5,043.32	399.84	135.30	264.53	1.511		
12,600.00	7,888.99	12,681.87	7,935.98	135.85	136.32	96.75	798.65	-5,143.32	399.84	130.09	269.75	1.482 Level 3		
12,700.00	7,888.99	12,781.87	7,935.98	138.48	138.94	96.75	799.09	-5,243.31	399.84	124.86	274.98	1.454 Level 3		
12,800.00	7,888.99	12,881.87	7,935.98	141.12	141.57	96.75	799.52	-5,343.31	399.84	119.63	280.21	1.427 Level 3		
12,900.00	7,888.99	12,981.87	7,935.98	143.75	144.20	96.75	799.96	-5,443.31	399.84	114.40	285.44	1.401 Level 3		
13,000.00	7,888.99	13,081.87	7,935.98	146.38	146.83	96.75	800.40	-5,543.31	399.84	109.16	290.68	1.376 Level 3		
13,100.00	7,888.99	13,181.87	7,935.98	149.02	149.46	96.75	800.83	-5,643.31	399.84	103.92	295.92	1.351 Level 3		
13,200.00	7,888.99	13,281.87	7,935.98	151.66	152.10	96.75	801.27	-5,743.31	399.84	98.68	301.16	1.328 Level 3		
13,300.00	7,888.99	13,381.87	7,935.98	154.30	154.73	96.75	801.71	-5,843.31	399.84	93.43	306.41	1.305 Level 3		
13,400.00	7,888.99	13,481.87	7,935.98	156.94	157.37	96.75	802.15	-5,943.31	399.84	88.18	311.66	1.283 Level 3		
13,500.00	7,888.99	13,581.87	7,935.97	159.59	160.01	96.75	802.58	-6,043.31	399.84	82.93	316.92	1.262 Level 3		
13,600.00	7,888.99	13,681.87	7,935.97	162.24	162.65	96.75	803.02	-6,143.31	399.84	77.67	322.17	1.241 Level 2		
13,700.00	7,888.99	13,781.87	7,935.97	164.88	165.30	96.75	803.46	-6,243.30	399.84	72.41	327.43	1.221 Level 2		
13,800.00	7,888.99	13,881.87	7,935.97	167.53	167.94	96.75	803.89	-6,343.30	399.84	67.15	332.70	1.202 Level 2		
13,900.00	7,888.99	13,981.87	7,935.97	170.18	170.59	96.75	804.33	-6,443.30	399.84	61.88	337.96	1.183 Level 2		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis		Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,000.00	7,888.99	14,081.87	7,935.97	172.83	173.24	96.75	804.77	-6,543.30	399.85	56.62	343.23	1.165	Level 2		
14,100.00	7,888.99	14,181.87	7,935.97	175.48	175.88	96.75	805.21	-6,643.30	399.85	51.35	348.50	1.147	Level 2		
14,200.00	7,888.99	14,281.87	7,935.97	178.14	178.53	96.75	805.64	-6,743.30	399.85	46.07	353.77	1.130	Level 2		
14,300.00	7,888.99	14,381.87	7,935.97	180.79	181.19	96.75	806.08	-6,843.30	399.85	40.80	359.05	1.114	Level 2		
14,400.00	7,888.99	14,481.87	7,935.97	183.45	183.84	96.75	806.52	-6,943.30	399.85	35.52	364.32	1.098	Level 2		
14,500.00	7,888.99	14,581.87	7,935.97	186.10	186.49	96.75	806.95	-7,043.30	399.85	30.25	369.60	1.082	Level 2		
14,600.00	7,888.99	14,681.87	7,935.97	188.76	189.15	96.75	807.39	-7,143.30	399.85	24.97	374.88	1.067	Level 2		
14,700.00	7,888.99	14,781.87	7,935.97	191.42	191.80	96.75	807.83	-7,243.30	399.85	19.68	380.16	1.052	Level 2		
14,800.00	7,888.99	14,881.87	7,935.97	194.08	194.46	96.75	808.27	-7,343.29	399.85	14.40	385.45	1.037	Level 2		
14,900.00	7,888.99	14,981.87	7,935.97	196.74	197.12	96.75	808.70	-7,443.29	399.85	9.11	390.73	1.023	Level 2		
15,000.00	7,888.99	15,081.87	7,935.97	199.40	199.77	96.75	809.14	-7,543.29	399.85	3.83	396.02	1.010	Level 2		
15,100.00	7,888.99	15,181.87	7,935.97	202.06	202.43	96.75	809.58	-7,643.29	399.85	-1.46	401.31	0.996	Level 1		
15,200.00	7,888.99	15,281.87	7,935.97	204.72	205.09	96.75	810.02	-7,743.29	399.85	-6.75	406.60	0.983	Level 1		
15,300.00	7,888.99	15,381.87	7,935.97	207.39	207.75	96.75	810.45	-7,843.29	399.85	-12.04	411.89	0.971	Level 1		
15,400.00	7,888.99	15,481.87	7,935.97	210.05	210.41	96.75	810.89	-7,943.29	399.85	-17.33	417.18	0.958	Level 1		
15,500.00	7,888.99	15,581.87	7,935.96	212.71	213.08	96.75	811.33	-8,043.29	399.85	-22.63	422.48	0.946	Level 1		
15,600.00	7,888.99	15,681.87	7,935.96	215.38	215.74	96.75	811.76	-8,143.29	399.85	-27.92	427.77	0.935	Level 1		
15,700.00	7,888.99	15,781.87	7,935.96	218.05	218.40	96.75	812.20	-8,243.29	399.85	-33.22	433.07	0.923	Level 1		
15,800.00	7,888.99	15,881.87	7,935.96	220.71	221.07	96.75	812.64	-8,343.28	399.85	-38.51	438.37	0.912	Level 1		
15,900.00	7,888.99	15,981.87	7,935.96	223.38	223.73	96.75	813.08	-8,443.28	399.85	-43.81	443.67	0.901	Level 1		
16,000.00	7,888.99	16,081.87	7,935.96	226.05	226.40	96.75	813.51	-8,543.28	399.85	-49.11	448.97	0.891	Level 1		
16,100.00	7,888.99	16,181.87	7,935.96	228.71	229.06	96.75	813.95	-8,643.28	399.85	-54.41	454.27	0.880	Level 1		
16,200.00	7,888.99	16,281.87	7,935.96	231.38	231.73	96.75	814.39	-8,743.28	399.85	-59.71	459.57	0.870	Level 1		
16,300.00	7,888.99	16,381.87	7,935.96	234.05	234.40	96.75	814.82	-8,843.28	399.85	-65.02	464.87	0.860	Level 1		
16,400.00	7,888.99	16,481.87	7,935.96	236.72	237.06	96.75	815.26	-8,943.28	399.86	-70.32	470.18	0.850	Level 1		
16,500.00	7,888.99	16,581.87	7,935.96	239.39	239.73	96.75	815.70	-9,043.28	399.86	-75.62	475.48	0.841	Level 1		
16,600.00	7,888.99	16,681.87	7,935.96	242.06	242.40	96.75	816.14	-9,143.28	399.86	-80.93	480.79	0.832	Level 1		
16,700.00	7,888.99	16,781.87	7,935.96	244.73	245.07	96.75	816.57	-9,243.28	399.86	-86.24	486.09	0.823	Level 1		
16,800.00	7,888.99	16,881.87	7,935.96	247.40	247.74	96.75	817.01	-9,343.28	399.86	-91.54	491.40	0.814	Level 1		
16,900.00	7,888.99	16,981.87	7,935.96	250.07	250.41	96.75	817.45	-9,443.27	399.86	-96.85	496.71	0.805	Level 1		
17,000.00	7,888.99	17,081.87	7,935.96	252.75	253.08	96.75	817.88	-9,543.27	399.86	-102.16	502.02	0.797	Level 1		
17,100.00	7,888.99	17,181.87	7,935.96	255.42	255.75	96.75	818.32	-9,643.27	399.86	-107.47	507.33	0.788	Level 1		
17,200.00	7,888.99	17,281.87	7,935.96	258.09	258.42	96.75	818.76	-9,743.27	399.86	-112.78	512.64	0.780	Level 1		
17,300.00	7,888.99	17,381.87	7,935.96	260.76	261.09	96.75	819.20	-9,843.27	399.86	-118.09	517.95	0.772	Level 1		
17,400.00	7,888.99	17,481.87	7,935.96	263.44	263.76	96.75	819.63	-9,943.27	399.86	-123.40	523.26	0.764	Level 1		
17,500.00	7,888.99	17,581.87	7,935.96	266.11	266.43	96.75	820.07	-10,043.27	399.86	-128.71	528.57	0.756	Level 1		
17,600.00	7,888.99	17,681.87	7,935.95	268.78	269.11	96.75	820.51	-10,143.27	399.86	-134.02	533.88	0.749	Level 1		
17,700.00	7,888.99	17,781.87	7,935.95	271.46	271.78	96.75	820.95	-10,243.27	399.86	-139.34	539.20	0.742	Level 1		
17,800.00	7,888.99	17,881.87	7,935.95	274.13	274.45	96.75	821.38	-10,343.27	399.86	-144.65	544.51	0.734	Level 1		
17,900.00	7,888.99	17,982.19	7,935.99	276.81	277.13	96.75	821.75	-10,443.58	399.80	-150.02	549.82	0.727	Level 1		
17,909.56	7,888.99	17,991.74	7,936.00	277.06	277.39	96.75	821.78	-10,453.14	399.79	-150.54	550.33	0.726	Level 1		
17,917.28	7,889.00	17,999.47	7,936.00	277.27	277.60	96.75	821.81	-10,460.87	399.83	-150.91	550.74	0.726	Level 1, ES, SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-16.87	16.87					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-16.87	16.87	16.61	0.27	62.766		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-16.87	16.87	15.89	0.99	17.118		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-16.87	16.87	15.17	1.70	9.910		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-16.87	16.87	14.46	2.42	6.974		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-16.87	16.87	13.74	3.14	5.380		
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-16.87	16.87	13.02	3.85	4.379		
700.00	700.00	700.00	700.00	2.29	2.29	-90.00	0.00	-16.87	16.87	12.30	4.57	3.692		
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-16.87	16.87	11.59	5.29	3.192		
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-16.87	16.87	10.87	6.00	2.810		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.00	0.00	-16.87	16.87	10.15	6.72	2.511		
1,100.00	1,099.98	1,100.02	1,099.98	3.72	3.72	-67.35	0.00	-16.87	16.13	8.69	7.44	2.168		
1,200.00	1,199.84	1,199.84	1,199.84	4.08	4.08	-86.24	0.00	-16.87	14.91	6.76	8.15	1.829		
1,202.60	1,202.43	1,202.43	1,202.43	4.09	4.09	-86.94	0.00	-16.87	14.90	6.73	8.17	1.824		
1,210.19	1,210.00	1,210.00	1,210.00	4.11	4.11	-89.00	0.00	-16.87	14.88	6.66	8.22	1.810	CC	
1,300.00	1,299.59	1,300.82	1,299.17	4.44	4.43	-108.09	-0.15	-18.58	17.33	8.47	8.86	1.955		
1,400.00	1,399.34	1,401.03	1,398.90	4.80	4.77	-119.87	-0.44	-21.80	22.44	12.87	9.57	2.345		
1,500.00	1,499.09	1,501.24	1,498.63	5.16	5.12	-127.10	-0.73	-25.02	28.14	17.87	10.28	2.739		
1,600.00	1,598.84	1,601.45	1,598.37	5.53	5.47	-131.85	-1.02	-28.24	34.14	23.15	10.99	3.107		
1,700.00	1,698.59	1,701.67	1,698.10	5.89	5.82	-135.16	-1.31	-31.46	40.30	28.60	11.70	3.445		
1,800.00	1,798.34	1,801.88	1,797.84	6.26	6.17	-137.59	-1.60	-34.68	46.56	34.15	12.41	3.751		
1,900.00	1,898.09	1,902.09	1,897.57	6.63	6.52	-139.45	-1.89	-37.90	52.88	39.75	13.13	4.028		
2,000.00	1,997.84	2,002.31	1,997.31	7.00	6.88	-140.90	-2.19	-41.12	59.25	45.40	13.85	4.279		
2,100.00	2,097.59	2,102.52	2,097.04	7.37	7.23	-142.07	-2.48	-44.34	65.65	51.08	14.57	4.507		
2,200.00	2,197.34	2,202.73	2,196.78	7.74	7.59	-143.04	-2.77	-47.56	72.07	56.78	15.28	4.715		
2,300.00	2,297.09	2,302.94	2,296.51	8.11	7.95	-143.84	-3.06	-50.78	78.50	62.50	16.00	4.905		
2,400.00	2,396.84	2,403.16	2,396.25	8.48	8.30	-144.53	-3.35	-54.00	84.95	68.23	16.72	5.079		
2,500.00	2,496.59	2,503.37	2,495.98	8.85	8.66	-145.11	-3.64	-57.22	91.41	73.97	17.45	5.240		
2,600.00	2,596.34	2,603.58	2,595.72	9.22	9.02	-145.62	-3.93	-60.44	97.88	79.71	18.17	5.388		
2,700.00	2,696.09	2,703.80	2,695.45	9.59	9.38	-146.07	-4.22	-63.66	104.35	85.46	18.89	5.524		
2,800.00	2,795.84	2,804.01	2,795.19	9.97	9.74	-146.46	-4.51	-66.88	110.83	91.22	19.61	5.651		
2,900.00	2,895.59	2,904.22	2,894.92	10.34	10.10	-146.81	-4.80	-70.10	117.32	96.98	20.34	5.769		
3,000.00	2,995.34	3,004.43	2,994.65	10.71	10.46	-147.13	-5.09	-73.32	123.81	102.75	21.06	5.879		
3,100.00	3,095.09	3,104.65	3,094.39	11.08	10.82	-147.41	-5.38	-76.55	130.30	108.52	21.78	5.982		
3,200.00	3,194.84	3,204.86	3,194.12	11.46	11.18	-147.67	-5.67	-79.77	136.79	114.29	22.51	6.078		
3,300.00	3,294.59	3,305.07	3,293.86	11.83	11.54	-147.90	-5.96	-82.99	143.29	120.06	23.23	6.168		
3,400.00	3,394.34	3,405.29	3,393.59	12.20	11.90	-148.11	-6.25	-86.21	149.79	125.84	23.96	6.253		
3,500.00	3,494.09	3,505.50	3,493.33	12.58	12.26	-148.31	-6.54	-89.43	156.29	131.61	24.68	6.333		
3,600.00	3,593.84	3,605.71	3,593.06	12.95	12.62	-148.49	-6.83	-92.65	162.80	137.39	25.41	6.408		
3,700.00	3,693.59	3,705.93	3,692.80	13.32	12.98	-148.65	-7.12	-95.87	169.30	143.17	26.13	6.479		
3,800.00	3,793.34	3,806.14	3,792.53	13.70	13.34	-148.80	-7.41	-99.09	175.81	148.95	26.86	6.546		
3,900.00	3,893.09	3,906.35	3,892.27	14.07	13.71	-148.95	-7.70	-102.31	182.31	154.73	27.58	6.610		
4,000.00	3,992.84	4,006.56	3,992.00	14.44	14.07	-149.08	-7.99	-105.53	188.82	160.52	28.31	6.670		
4,100.00	4,092.59	4,106.78	4,091.74	14.82	14.43	-149.20	-8.28	-108.75	195.33	166.30	29.03	6.728		
4,200.00	4,192.34	4,206.99	4,191.47	15.19	14.79	-149.32	-8.57	-111.97	201.84	172.08	29.76	6.783		
4,300.00	4,292.09	4,307.20	4,291.21	15.57	15.15	-149.43	-8.86	-115.19	208.35	177.87	30.49	6.835		
4,400.00	4,391.84	4,407.42	4,390.94	15.94	15.51	-149.53	-9.15	-118.41	214.86	183.65	31.21	6.884		
4,500.00	4,491.59	4,507.63	4,490.67	16.31	15.88	-149.62	-9.44	-121.63	221.38	189.44	31.94	6.932		
4,600.00	4,591.34	4,607.84	4,590.41	16.69	16.24	-149.71	-9.73	-124.85	227.89	195.22	32.66	6.977		
4,700.00	4,691.09	4,708.05	4,690.14	17.06	16.60	-149.80	-10.02	-128.07	234.40	201.01	33.39	7.020		
4,800.00	4,790.84	4,808.27	4,789.88	17.44	16.96	-149.88	-10.31	-131.29	240.91	206.80	34.12	7.061		
4,900.00	4,890.59	4,908.48	4,889.61	17.81	17.32	-149.96	-10.60	-134.51	247.43	212.59	34.84	7.101		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,990.34	5,008.69	4,989.35	18.19	17.69	-150.03	-10.89	-137.73	253.94	218.37	35.57	7.139			
5,100.00	5,090.09	5,108.91	5,089.08	18.56	18.05	-150.10	-11.18	-140.95	260.46	224.16	36.30	7.176			
5,200.00	5,189.84	5,209.12	5,188.82	18.93	18.41	-150.16	-11.47	-144.17	266.97	229.95	37.02	7.211			
5,300.00	5,289.59	5,309.33	5,288.55	19.31	18.77	-150.23	-11.76	-147.39	273.49	235.74	37.75	7.245			
5,400.00	5,389.34	5,409.55	5,388.29	19.68	19.14	-150.29	-12.05	-150.61	280.00	241.53	38.48	7.277			
5,500.00	5,489.09	5,509.76	5,488.02	20.06	19.50	-150.34	-12.34	-153.83	286.52	247.32	39.20	7.308			
5,600.00	5,588.84	5,609.97	5,587.76	20.43	19.86	-150.40	-12.63	-157.06	293.04	253.11	39.93	7.339			
5,700.00	5,688.59	5,689.82	5,687.49	20.81	20.15	-150.45	-12.92	-160.28	299.55	258.97	40.58	7.381			
5,800.00	5,788.34	5,789.60	5,787.23	21.18	20.51	-150.50	-13.21	-163.50	306.07	264.76	41.31	7.409			
5,900.00	5,888.09	5,889.39	5,886.96	21.56	20.87	-150.55	-13.50	-166.72	312.59	270.55	42.04	7.436			
6,000.00	5,987.84	5,989.18	5,986.70	21.93	21.24	-150.59	-13.79	-169.94	319.11	276.34	42.76	7.462			
6,100.00	6,087.59	6,088.96	6,086.43	22.30	21.60	-150.64	-14.08	-173.16	325.62	282.14	43.49	7.488			
6,200.00	6,187.34	6,188.75	6,186.16	22.68	21.96	-150.68	-14.37	-176.38	332.14	287.93	44.21	7.512			
6,300.00	6,287.09	6,288.54	6,285.90	23.05	22.32	-150.72	-14.66	-179.60	338.66	293.72	44.94	7.536			
6,400.00	6,386.84	6,388.33	6,385.63	23.43	22.68	-150.76	-14.95	-182.82	345.18	299.51	45.67	7.559			
6,500.00	6,486.59	6,488.11	6,485.37	23.80	23.04	-150.80	-15.25	-186.04	351.69	305.30	46.39	7.581			
6,600.00	6,586.34	6,587.90	6,585.10	24.18	23.40	-150.83	-15.54	-189.26	358.21	311.10	47.12	7.603			
6,700.00	6,686.09	6,687.69	6,684.84	24.55	23.76	-150.87	-15.83	-192.48	364.73	316.89	47.84	7.624			
6,800.00	6,785.84	6,787.47	6,784.57	24.93	24.13	-150.90	-16.12	-195.70	371.25	322.68	48.57	7.644			
6,900.00	6,885.59	6,887.26	6,884.31	25.30	24.49	-150.93	-16.41	-198.92	377.77	328.47	49.29	7.663			
7,000.00	6,985.34	6,987.05	6,984.04	25.68	24.85	-150.96	-16.70	-202.14	384.29	334.27	50.02	7.683			
7,098.48	7,083.57	7,085.64	7,082.59	26.04	25.21	-151.01	-16.97	-205.23	390.70	339.96	50.74	7.700			
7,100.00	7,085.09	7,087.19	7,084.13	26.05	25.21	-151.01	-16.98	-205.26	390.80	340.05	50.75	7.701			
7,200.00	7,184.95	7,188.01	7,184.95	26.42	25.56	-151.31	-17.05	-206.06	395.49	344.03	51.46	7.685			
7,299.99	7,284.91	7,286.70	7,283.10	26.77	25.93	-150.16	-17.01	-215.05	397.19	345.00	52.19	7.610			
7,301.08	7,286.00	7,287.75	7,284.14	26.77	25.94	-178.27	-17.01	-215.24	397.20	344.99	52.20	7.609			
7,331.08	7,316.00	7,316.45	7,312.24	26.88	26.05	-177.43	-16.98	-221.06	397.40	344.98	52.42	7.581			
7,350.00	7,334.92	7,334.31	7,329.56	26.94	26.12	-87.08	-16.97	-225.39	397.60	345.04	52.56	7.565			
7,400.00	7,384.76	7,380.91	7,374.05	27.12	26.32	-85.51	-16.91	-239.21	398.34	345.42	52.92	7.527			
7,450.00	7,434.07	7,426.73	7,416.57	27.30	26.51	-83.99	-16.83	-256.28	399.35	346.07	53.28	7.495			
7,500.00	7,482.49	7,471.86	7,456.97	27.49	26.72	-82.53	-16.74	-276.35	400.60	346.97	53.63	7.470			
7,550.00	7,529.64	7,516.33	7,495.12	27.69	26.93	-81.13	-16.64	-299.18	402.05	348.08	53.97	7.450			
7,600.00	7,575.16	7,560.22	7,530.92	27.90	27.15	-79.81	-16.53	-324.55	403.65	349.35	54.29	7.434			
7,650.00	7,618.71	7,603.58	7,564.28	28.11	27.38	-78.56	-16.41	-352.23	405.35	350.74	54.61	7.423			
7,700.00	7,659.96	7,646.46	7,595.12	28.34	27.63	-77.40	-16.28	-382.00	407.11	352.19	54.92	7.412			
7,750.00	7,698.59	7,688.91	7,623.38	28.59	27.89	-76.33	-16.14	-413.67	408.89	353.64	55.24	7.402			
7,800.00	7,734.31	7,730.98	7,648.99	28.86	28.18	-75.36	-16.00	-447.03	410.63	355.05	55.58	7.388			
7,850.00	7,766.84	7,772.71	7,671.92	29.16	28.50	-74.49	-15.85	-481.90	412.29	356.34	55.94	7.370			
7,900.00	7,795.95	7,814.16	7,692.11	29.49	28.83	-73.72	-15.69	-518.08	413.84	357.48	56.35	7.344			
7,950.00	7,821.40	7,855.36	7,709.54	29.86	29.19	-73.05	-15.53	-555.40	415.23	358.41	56.82	7.308			
8,000.00	7,843.01	7,896.35	7,724.18	30.28	29.59	-72.49	-15.36	-593.67	416.45	359.08	57.36	7.260			
8,050.00	7,860.61	7,937.17	7,736.00	30.74	30.01	-72.05	-15.19	-632.74	417.45	359.46	57.99	7.199			
8,100.00	7,874.06	7,977.86	7,744.99	31.25	30.46	-71.71	-15.02	-672.42	418.23	359.52	58.71	7.124			
8,150.00	7,883.26	8,018.46	7,751.13	31.80	30.93	-71.48	-14.84	-712.54	418.76	359.23	59.52	7.035			
8,200.00	7,888.15	8,059.00	7,754.40	32.39	31.42	-71.37	-14.66	-752.94	419.03	358.59	60.44	6.933			
8,231.14	7,889.00	8,086.22	7,755.00	32.77	31.76	-71.35	-14.55	-777.97	419.06	357.99	61.08	6.861			
8,300.00	7,889.00	8,152.89	7,755.00	33.66	32.67	-71.35	-14.25	-846.82	419.06	356.27	62.79	6.674			
8,400.00	7,889.00	8,252.89	7,755.00	35.10	34.14	-71.35	-13.82	-946.82	419.06	353.52	65.55	6.393			
8,500.00	7,889.00	8,352.89	7,755.00	36.68	35.75	-71.35	-13.38	-1,046.82	419.06	350.49	68.58	6.111			
8,600.00	7,889.00	8,452.89	7,755.00	38.38	37.48	-71.35	-12.95	-1,146.82	419.06	347.22	71.84	5.833			
8,700.00	7,889.00	8,552.89	7,755.00	40.19	39.33	-71.35	-12.51	-1,246.82	419.06	343.75	75.31	5.564			
8,800.00	7,889.00	8,652.89	7,755.00	42.09	41.26	-71.35	-12.07	-1,346.82	419.06	340.10	78.97	5.307			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,889.00	8,752.89	7,755.00	44.08	43.28	-71.35	-11.64	-1,446.82	419.07	336.29	82.77	5.063		
9,000.00	7,889.00	8,852.89	7,755.00	46.14	45.36	-71.35	-11.20	-1,546.82	419.07	332.35	86.72	4.833		
9,100.00	7,889.00	8,952.89	7,755.00	48.26	47.51	-71.35	-10.76	-1,646.82	419.07	328.29	90.78	4.616		
9,200.00	7,889.00	9,052.89	7,755.00	50.44	49.71	-71.35	-10.33	-1,746.82	419.07	324.13	94.94	4.414		
9,300.00	7,889.00	9,152.89	7,755.00	52.66	51.96	-71.35	-9.89	-1,846.81	419.07	319.87	99.19	4.225		
9,400.00	7,889.00	9,252.89	7,755.00	54.93	54.24	-71.35	-9.46	-1,946.81	419.07	315.54	103.52	4.048		
9,500.00	7,889.00	9,352.89	7,755.00	57.23	56.57	-71.35	-9.02	-2,046.81	419.07	311.14	107.92	3.883		
9,600.00	7,889.00	9,452.89	7,755.00	59.56	58.92	-71.35	-8.58	-2,146.81	419.07	306.68	112.38	3.729		
9,700.00	7,889.00	9,552.89	7,755.00	61.93	61.30	-71.35	-8.15	-2,246.81	419.07	302.17	116.90	3.585		
9,800.00	7,889.00	9,652.89	7,755.00	64.31	63.71	-71.35	-7.71	-2,346.81	419.07	297.61	121.46	3.450		
9,900.00	7,889.00	9,752.89	7,755.00	66.73	66.13	-71.35	-7.27	-2,446.81	419.07	293.00	126.07	3.324		
10,000.00	7,889.00	9,852.89	7,755.00	69.16	68.58	-71.35	-6.84	-2,546.81	419.07	288.36	130.71	3.206		
10,100.00	7,889.00	9,952.89	7,755.00	71.61	71.05	-71.35	-6.40	-2,646.81	419.07	283.68	135.39	3.095		
10,200.00	7,889.00	10,052.89	7,755.00	74.08	73.53	-71.35	-5.96	-2,746.81	419.07	278.98	140.09	2.991		
10,300.00	7,889.00	10,152.89	7,755.00	76.56	76.02	-71.35	-5.53	-2,846.81	419.07	274.24	144.83	2.894		
10,400.00	7,889.00	10,252.89	7,755.00	79.06	78.53	-71.35	-5.09	-2,946.80	419.07	269.48	149.59	2.801		
10,500.00	7,889.00	10,352.89	7,755.00	81.56	81.05	-71.35	-4.66	-3,046.80	419.07	264.70	154.38	2.715		
10,600.00	7,889.00	10,452.89	7,755.00	84.08	83.58	-71.35	-4.22	-3,146.80	419.07	259.89	159.18	2.633		
10,700.00	7,889.00	10,552.89	7,755.00	86.61	86.12	-71.35	-3.78	-3,246.80	419.07	255.07	164.01	2.555		
10,800.00	7,889.00	10,652.89	7,755.00	89.15	88.67	-71.35	-3.35	-3,346.80	419.07	250.23	168.85	2.482		
10,900.00	7,889.00	10,752.89	7,755.00	91.70	91.22	-71.35	-2.91	-3,446.80	419.07	245.37	173.70	2.413		
11,000.00	7,889.00	10,852.89	7,755.00	94.26	93.79	-71.35	-2.47	-3,546.80	419.07	240.50	178.58	2.347		
11,100.00	7,889.00	10,952.89	7,755.00	96.82	96.36	-71.35	-2.04	-3,646.80	419.07	235.61	183.46	2.284		
11,200.00	7,889.00	11,052.89	7,755.00	99.39	98.94	-71.35	-1.60	-3,746.80	419.07	230.72	188.36	2.225		
11,300.00	7,889.00	11,152.89	7,755.00	101.97	101.52	-71.35	-1.17	-3,846.80	419.08	225.81	193.27	2.168		
11,400.00	7,889.00	11,252.89	7,755.00	104.55	104.11	-71.35	-0.73	-3,946.79	419.08	220.89	198.19	2.115		
11,500.00	7,889.00	11,352.89	7,755.00	107.13	106.70	-71.35	-0.29	-4,046.79	419.08	215.96	203.12	2.063		
11,600.00	7,889.00	11,452.89	7,755.00	109.73	109.30	-71.35	0.14	-4,146.79	419.08	211.02	208.05	2.014		
11,700.00	7,889.00	11,552.89	7,755.00	112.32	111.90	-71.35	0.58	-4,246.79	419.08	206.08	213.00	1.967		
11,800.00	7,889.00	11,652.89	7,755.00	114.92	114.51	-71.35	1.02	-4,346.79	419.08	201.12	217.96	1.923		
11,900.00	7,889.00	11,752.89	7,755.00	117.53	117.12	-71.35	1.45	-4,446.79	419.08	196.16	222.92	1.880		
12,000.00	7,889.00	11,852.89	7,755.00	120.14	119.73	-71.35	1.89	-4,546.79	419.08	191.19	227.89	1.839		
12,100.00	7,889.00	11,952.89	7,755.00	122.75	122.35	-71.35	2.32	-4,646.79	419.08	186.22	232.86	1.800		
12,200.00	7,889.00	12,052.89	7,755.00	125.36	124.97	-71.35	2.76	-4,746.79	419.08	181.23	237.85	1.762		
12,300.00	7,889.00	12,152.89	7,755.00	127.98	127.59	-71.35	3.20	-4,846.79	419.08	176.25	242.83	1.726		
12,400.00	7,888.99	12,252.89	7,755.00	130.60	130.22	-71.35	3.63	-4,946.79	419.08	171.25	247.83	1.691		
12,500.00	7,888.99	12,352.89	7,755.00	133.23	132.85	-71.35	4.07	-5,046.78	419.08	166.26	252.82	1.658		
12,600.00	7,888.99	12,452.89	7,755.00	135.85	135.48	-71.35	4.51	-5,146.78	419.08	161.26	257.83	1.625		
12,700.00	7,888.99	12,552.89	7,755.00	138.48	138.11	-71.35	4.94	-5,246.78	419.08	156.25	262.83	1.594		
12,800.00	7,888.99	12,652.89	7,755.00	141.12	140.75	-71.35	5.38	-5,346.78	419.08	151.24	267.84	1.565		
12,900.00	7,888.99	12,752.89	7,755.00	143.75	143.38	-71.35	5.81	-5,446.78	419.08	146.22	272.86	1.536		
13,000.00	7,888.99	12,852.89	7,755.00	146.38	146.02	-71.35	6.25	-5,546.78	419.08	141.21	277.88	1.508		
13,100.00	7,888.99	12,952.89	7,754.99	149.02	148.66	-71.35	6.69	-5,646.78	419.08	136.18	282.90	1.481 Level 3		
13,200.00	7,888.99	13,052.89	7,754.99	151.66	151.31	-71.35	7.12	-5,746.78	419.08	131.16	287.93	1.456 Level 3		
13,300.00	7,888.99	13,152.89	7,754.99	154.30	153.95	-71.35	7.56	-5,846.78	419.08	126.13	292.95	1.431 Level 3		
13,400.00	7,888.99	13,252.89	7,754.99	156.94	156.60	-71.35	8.00	-5,946.78	419.08	121.10	297.99	1.406 Level 3		
13,500.00	7,888.99	13,352.89	7,754.99	159.59	159.24	-71.35	8.43	-6,046.77	419.08	116.06	303.02	1.383 Level 3		
13,600.00	7,888.99	13,452.89	7,754.99	162.24	161.89	-71.35	8.87	-6,146.77	419.08	111.03	308.06	1.360 Level 3		
13,700.00	7,888.99	13,552.89	7,754.99	164.88	164.54	-71.35	9.31	-6,246.77	419.09	105.99	313.10	1.339 Level 3		
13,800.00	7,888.99	13,652.89	7,754.99	167.53	167.19	-71.35	9.74	-6,346.77	419.09	100.94	318.14	1.317 Level 3		
13,900.00	7,888.99	13,752.89	7,754.99	170.18	169.85	-71.35	10.18	-6,446.77	419.09	95.90	323.19	1.297 Level 3		
14,000.00	7,888.99	13,852.89	7,754.99	172.83	172.50	-71.35	10.61	-6,546.77	419.09	90.85	328.23	1.277 Level 3		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,100.00	7,888.99	13,952.89	7,754.99	175.48	175.15	-71.35	11.05	-6,646.77	419.09	85.80	333.28	1.257	Level 3		
14,200.00	7,888.99	14,052.89	7,754.99	178.14	177.81	-71.35	11.49	-6,746.77	419.09	80.75	338.34	1.239	Level 2		
14,300.00	7,888.99	14,152.89	7,754.99	180.79	180.47	-71.35	11.92	-6,846.77	419.09	75.70	343.39	1.220	Level 2		
14,400.00	7,888.99	14,252.89	7,754.99	183.45	183.12	-71.35	12.36	-6,946.77	419.09	70.64	348.45	1.203	Level 2		
14,500.00	7,888.99	14,352.89	7,754.99	186.10	185.78	-71.35	12.80	-7,046.77	419.09	65.59	353.50	1.186	Level 2		
14,600.00	7,888.99	14,452.89	7,754.99	188.76	188.44	-71.35	13.23	-7,146.76	419.09	60.53	358.56	1.169	Level 2		
14,700.00	7,888.99	14,552.89	7,754.99	191.42	191.10	-71.35	13.67	-7,246.76	419.09	55.47	363.62	1.153	Level 2		
14,800.00	7,888.99	14,652.89	7,754.99	194.08	193.76	-71.35	14.10	-7,346.76	419.09	50.41	368.68	1.137	Level 2		
14,900.00	7,888.99	14,752.89	7,754.99	196.74	196.43	-71.35	14.54	-7,446.76	419.09	45.34	373.75	1.121	Level 2		
15,000.00	7,888.99	14,852.89	7,754.99	199.40	199.09	-71.35	14.98	-7,546.76	419.09	40.28	378.81	1.106	Level 2		
15,100.00	7,888.99	14,952.89	7,754.99	202.06	201.75	-71.35	15.41	-7,646.76	419.09	35.21	383.88	1.092	Level 2		
15,200.00	7,888.99	15,052.89	7,754.99	204.72	204.42	-71.35	15.85	-7,746.76	419.09	30.14	388.95	1.077	Level 2		
15,300.00	7,888.99	15,152.89	7,754.99	207.39	207.08	-71.35	16.29	-7,846.76	419.09	25.07	394.02	1.064	Level 2		
15,400.00	7,888.99	15,252.89	7,754.99	210.05	209.75	-71.35	16.72	-7,946.76	419.09	20.00	399.09	1.050	Level 2		
15,500.00	7,888.99	15,352.89	7,754.99	212.71	212.41	-71.35	17.16	-8,046.76	419.09	14.93	404.16	1.037	Level 2		
15,600.00	7,888.99	15,452.89	7,754.99	215.38	215.08	-71.35	17.59	-8,146.75	419.09	9.86	409.23	1.024	Level 2		
15,700.00	7,888.99	15,552.89	7,754.99	218.05	217.75	-71.35	18.03	-8,246.75	419.09	4.79	414.31	1.012	Level 2		
15,800.00	7,888.99	15,652.89	7,754.99	220.71	220.42	-71.35	18.47	-8,346.75	419.09	-0.29	419.38	0.999	Level 1		
15,900.00	7,888.99	15,752.89	7,754.99	223.38	223.08	-71.35	18.90	-8,446.75	419.09	-5.36	424.46	0.987	Level 1		
16,000.00	7,888.99	15,852.89	7,754.99	226.05	225.75	-71.35	19.34	-8,546.75	419.09	-10.44	429.54	0.976	Level 1		
16,100.00	7,888.99	15,952.89	7,754.99	228.71	228.42	-71.35	19.78	-8,646.75	419.10	-15.52	434.61	0.964	Level 1		
16,200.00	7,888.99	16,052.89	7,754.99	231.38	231.09	-71.35	20.21	-8,746.75	419.10	-20.60	439.69	0.953	Level 1		
16,300.00	7,888.99	16,152.89	7,754.99	234.05	233.76	-71.35	20.65	-8,846.75	419.10	-25.68	444.77	0.942	Level 1		
16,400.00	7,888.99	16,252.89	7,754.99	236.72	236.43	-71.35	21.08	-8,946.75	419.10	-30.76	449.85	0.932	Level 1		
16,500.00	7,888.99	16,352.89	7,754.99	239.39	239.10	-71.35	21.52	-9,046.75	419.10	-35.84	454.93	0.921	Level 1		
16,600.00	7,888.99	16,452.89	7,754.99	242.06	241.78	-71.35	21.96	-9,146.75	419.10	-40.92	460.02	0.911	Level 1		
16,700.00	7,888.99	16,552.89	7,754.99	244.73	244.45	-71.35	22.39	-9,246.74	419.10	-46.00	465.10	0.901	Level 1		
16,800.00	7,888.99	16,652.89	7,754.99	247.40	247.12	-71.35	22.83	-9,346.74	419.10	-51.09	470.18	0.891	Level 1		
16,900.00	7,888.99	16,752.89	7,754.99	250.07	249.79	-71.35	23.27	-9,446.74	419.10	-56.17	475.27	0.882	Level 1		
17,000.00	7,888.99	16,852.89	7,754.99	252.75	252.47	-71.35	23.70	-9,546.74	419.10	-61.26	480.35	0.872	Level 1		
17,100.00	7,888.99	16,952.89	7,754.99	255.42	255.14	-71.35	24.14	-9,646.74	419.10	-66.34	485.44	0.863	Level 1		
17,200.00	7,888.99	17,052.89	7,754.99	258.09	257.81	-71.35	24.58	-9,746.74	419.10	-71.43	490.53	0.854	Level 1		
17,300.00	7,888.99	17,152.89	7,754.99	260.76	260.49	-71.35	25.01	-9,846.74	419.10	-76.51	495.62	0.846	Level 1		
17,400.00	7,888.99	17,252.89	7,754.99	263.44	263.16	-71.35	25.45	-9,946.74	419.10	-81.60	500.70	0.837	Level 1		
17,500.00	7,888.99	17,352.89	7,754.99	266.11	265.84	-71.35	25.88	-10,046.74	419.10	-86.69	505.79	0.829	Level 1		
17,600.00	7,888.99	17,452.89	7,754.99	268.78	268.51	-71.35	26.32	-10,146.74	419.10	-91.78	510.88	0.820	Level 1		
17,700.00	7,888.99	17,552.89	7,754.99	271.46	271.19	-71.35	26.76	-10,246.74	419.10	-96.87	515.97	0.812	Level 1		
17,800.00	7,888.99	17,652.89	7,754.99	274.13	273.86	-71.35	27.19	-10,346.73	419.10	-101.96	521.06	0.804	Level 1		
17,900.00	7,888.99	17,752.94	7,755.00	276.81	276.54	-71.35	27.63	-10,446.78	419.10	-107.06	526.16	0.797	Level 1		
17,917.28	7,889.00	17,770.22	7,755.00	277.27	277.00	-71.35	27.71	-10,464.06	419.05	-107.98	527.03	0.795	Level 1, ES, SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	90.00	90.00					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	90.00	90.00	89.73	0.27	334.753		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	90.00	90.00	89.01	0.99	91.296		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	90.00	90.00	88.30	1.70	52.856		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	90.00	90.00	87.58	2.42	37.195		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	90.00	90.00	86.86	3.14	28.693		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	90.00	90.00	86.15	3.85	23.355		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	90.00	90.00	85.43	4.57	19.691		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	90.00	90.00	84.71	5.29	17.021		
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	90.00	90.00	84.00	6.00	14.989		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.00	0.00	90.00	90.00	83.28	6.72	13.390	CC, ES	
1,100.00	1,099.98	1,099.98	1,099.98	3.72	3.72	119.09	0.00	90.00	90.84	83.40	7.44	12.214		
1,200.00	1,199.84	1,201.61	1,201.59	4.08	4.07	122.84	-1.43	88.91	92.53	84.39	8.14	11.369		
1,202.60	1,202.43	1,204.25	1,204.23	4.09	4.08	122.99	-1.51	88.86	92.58	84.43	8.16	11.350		
1,300.00	1,299.59	1,302.67	1,302.50	4.44	4.40	129.26	-5.72	85.68	94.11	85.28	8.83	10.660		
1,400.00	1,399.34	1,402.30	1,401.81	4.80	4.74	136.80	-12.07	80.89	95.92	86.39	9.52	10.071		
1,500.00	1,499.09	1,501.48	1,500.66	5.16	5.08	144.02	-18.53	76.01	99.29	89.06	10.23	9.709		
1,600.00	1,598.84	1,600.65	1,599.50	5.53	5.43	150.67	-25.00	71.13	104.14	93.20	10.93	9.524		
1,700.00	1,698.59	1,700.17	1,698.35	5.89	5.78	156.66	-31.46	66.25	110.27	98.63	11.65	9.469		
1,800.00	1,798.34	1,801.00	1,797.19	6.26	6.15	161.98	-37.92	61.37	117.49	105.13	12.37	9.502		
1,900.00	1,898.09	1,901.82	1,896.03	6.63	6.51	166.66	-44.39	56.49	125.61	112.52	13.09	9.598		
2,000.00	1,997.84	2,002.65	1,994.88	7.00	6.88	170.75	-50.85	51.61	134.46	120.65	13.81	9.737		
2,100.00	2,097.59	2,103.47	2,093.72	7.37	7.25	174.32	-57.31	46.74	143.91	129.38	14.53	9.903		
2,200.00	2,197.34	2,204.30	2,192.56	7.74	7.62	177.44	-63.78	41.86	153.85	138.59	15.26	10.084		
2,300.00	2,297.09	2,305.12	2,291.41	8.11	7.99	-179.82	-70.24	36.98	164.18	148.20	15.98	10.274		
2,400.00	2,396.84	2,405.95	2,390.25	8.48	8.37	-177.41	-76.70	32.10	174.85	158.14	16.71	10.466		
2,500.00	2,496.59	2,506.77	2,489.10	8.85	8.75	-175.27	-83.17	27.22	185.79	168.36	17.43	10.658		
2,600.00	2,596.34	2,607.60	2,587.94	9.22	9.12	-173.38	-89.63	22.34	196.96	178.80	18.16	10.846		
2,700.00	2,696.09	2,691.58	2,686.78	9.59	9.44	-171.69	-96.09	17.47	208.31	189.49	18.82	11.067		
2,800.00	2,795.84	2,809.25	2,785.63	9.97	9.88	-170.17	-102.56	12.59	219.83	200.22	19.61	11.208		
2,900.00	2,895.59	2,889.93	2,884.47	10.34	10.19	-168.81	-109.02	7.71	231.49	211.22	20.27	11.422		
3,000.00	2,995.34	2,989.10	2,983.31	10.71	10.56	-167.58	-115.48	2.83	243.26	222.27	20.99	11.589		
3,100.00	3,095.09	3,088.27	3,082.16	11.08	10.94	-166.46	-121.95	-2.05	255.13	233.42	21.71	11.750		
3,200.00	3,194.84	3,187.45	3,181.00	11.46	11.31	-165.44	-128.41	-6.93	267.09	244.66	22.44	11.904		
3,300.00	3,294.59	3,286.62	3,279.84	11.83	11.69	-164.51	-134.87	-11.81	279.13	255.97	23.16	12.052		
3,400.00	3,394.34	3,385.80	3,378.69	12.20	12.06	-163.65	-141.34	-16.68	291.23	267.35	23.88	12.193		
3,500.00	3,494.09	3,484.97	3,477.53	12.58	12.44	-162.87	-147.80	-21.56	303.40	278.79	24.61	12.329		
3,600.00	3,593.84	3,584.15	3,576.38	12.95	12.82	-162.14	-154.26	-26.44	315.61	290.28	25.33	12.458		
3,700.00	3,693.59	3,683.32	3,675.22	13.32	13.20	-161.47	-160.73	-31.32	327.87	301.81	26.06	12.582		
3,800.00	3,793.34	3,782.50	3,774.06	13.70	13.57	-160.84	-167.19	-36.20	340.17	313.39	26.78	12.701		
3,900.00	3,893.09	3,881.67	3,872.91	14.07	13.95	-160.27	-173.65	-41.08	352.51	325.00	27.51	12.814		
4,000.00	3,992.84	3,980.85	3,971.75	14.44	14.33	-159.72	-180.12	-45.95	364.89	336.65	28.24	12.923		
4,100.00	4,092.59	4,080.02	4,070.59	14.82	14.71	-159.22	-186.58	-50.83	377.29	348.33	28.96	13.027		
4,200.00	4,192.34	4,179.20	4,169.44	15.19	15.09	-158.75	-193.04	-55.71	389.72	360.03	29.69	13.127		
4,300.00	4,292.09	4,278.37	4,268.28	15.57	15.47	-158.30	-199.51	-60.59	402.17	371.76	30.41	13.223		
4,400.00	4,391.84	4,377.55	4,367.12	15.94	15.85	-157.89	-205.97	-65.47	414.65	383.51	31.14	13.315		
4,500.00	4,491.59	4,476.72	4,465.97	16.31	16.23	-157.49	-212.43	-70.35	427.14	395.28	31.87	13.404		
4,600.00	4,591.34	4,575.90	4,564.81	16.69	16.61	-157.12	-218.90	-75.23	439.66	407.06	32.59	13.489		
4,700.00	4,691.09	4,675.07	4,663.66	17.06	16.99	-156.77	-225.36	-80.10	452.19	418.87	33.32	13.571		
4,800.00	4,790.84	4,774.25	4,762.50	17.44	17.37	-156.44	-231.82	-84.98	464.74	430.69	34.05	13.649		
4,900.00	4,890.59	4,873.42	4,861.34	17.81	17.75	-156.13	-238.29	-89.86	477.30	442.53	34.78	13.725		
5,000.00	4,990.34	4,972.60	4,960.19	18.19	18.13	-155.83	-244.75	-94.74	489.88	454.37	35.50	13.798		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,090.09	5,071.77	5,059.03	18.56	18.51	-155.55	-251.21	-99.62	502.47	466.23	36.23	13.869		
5,200.00	5,189.84	5,170.95	5,157.87	18.93	18.89	-155.28	-257.68	-104.50	515.06	478.11	36.96	13.936		
5,300.00	5,289.59	5,270.12	5,256.72	19.31	19.27	-155.02	-264.14	-109.38	527.67	489.99	37.69	14.002		
5,400.00	5,389.34	5,369.30	5,355.56	19.68	19.65	-154.78	-270.60	-114.25	540.29	501.88	38.41	14.065		
5,500.00	5,489.09	5,468.47	5,454.40	20.06	20.03	-154.55	-277.07	-119.13	552.92	513.78	39.14	14.126		
5,600.00	5,588.84	5,567.65	5,553.25	20.43	20.41	-154.33	-283.53	-124.01	565.56	525.69	39.87	14.185		
5,700.00	5,688.59	5,666.82	5,652.09	20.81	20.79	-154.11	-289.99	-128.89	578.21	537.61	40.60	14.242		
5,800.00	5,788.34	5,765.99	5,750.94	21.18	21.18	-153.91	-296.46	-133.77	590.86	549.53	41.33	14.297		
5,900.00	5,888.09	5,865.17	5,849.78	21.56	21.56	-153.71	-302.92	-138.65	603.52	561.47	42.06	14.351		
6,000.00	5,987.84	5,964.34	5,948.62	21.93	21.94	-153.53	-309.38	-143.52	616.19	573.41	42.78	14.402		
6,100.00	6,087.59	6,063.52	6,047.47	22.30	22.32	-153.35	-315.85	-148.40	628.86	585.35	43.51	14.453		
6,200.00	6,187.34	6,162.69	6,146.31	22.68	22.70	-153.17	-322.31	-153.28	641.54	597.30	44.24	14.501		
6,300.00	6,287.09	6,261.87	6,245.15	23.05	23.08	-153.01	-328.77	-158.16	654.23	609.26	44.97	14.548		
6,400.00	6,386.84	6,361.04	6,344.00	23.43	23.46	-152.85	-335.24	-163.04	666.92	621.22	45.70	14.594		
6,500.00	6,486.59	6,460.22	6,442.84	23.80	23.85	-152.70	-341.70	-167.92	679.61	633.18	46.43	14.638		
6,600.00	6,586.34	6,559.39	6,541.69	24.18	24.23	-152.55	-348.16	-172.80	692.31	645.15	47.16	14.681		
6,700.00	6,686.09	6,658.57	6,640.53	24.55	24.61	-152.41	-354.63	-177.67	705.01	657.13	47.89	14.723		
6,800.00	6,785.84	6,757.74	6,739.37	24.93	24.99	-152.27	-361.09	-182.55	717.72	669.11	48.61	14.764		
6,900.00	6,885.59	6,856.92	6,838.22	25.30	25.37	-152.14	-367.55	-187.43	730.43	681.09	49.34	14.803		
7,000.00	6,985.34	6,956.09	6,937.06	25.68	25.75	-152.01	-374.02	-192.31	743.15	693.08	50.07	14.841		
7,098.48	7,083.57	7,053.76	7,034.40	26.04	26.13	-151.89	-380.38	-197.11	755.67	704.88	50.79	14.878		
7,100.00	7,085.09	7,055.27	7,035.90	26.05	26.14	-151.89	-380.48	-197.19	755.87	705.07	50.80	14.879		
7,200.00	7,184.95	7,164.39	7,144.69	26.42	26.55	-151.80	-387.30	-202.34	766.79	715.19	51.59	14.862		
7,299.99	7,284.91	7,291.53	7,271.69	26.77	27.02	-151.68	-391.72	-205.67	771.84	719.38	52.46	14.714		
7,301.08	7,286.00	7,292.92	7,273.08	26.77	27.02	-179.82	-391.75	-205.69	771.86	719.39	52.47	14.712		
7,331.08	7,316.00	7,331.16	7,311.32	26.88	27.15	-179.79	-392.18	-206.02	772.20	719.49	52.71	14.651		
7,350.00	7,334.92	7,355.29	7,335.45	26.94	27.23	-90.06	-392.25	-206.07	772.25	719.40	52.86	14.611		
7,354.37	7,339.29	7,360.85	7,341.02	26.96	27.25	-90.08	-392.24	-206.06	772.25	719.36	52.89	14.601		
7,400.00	7,384.76	7,404.76	7,384.92	27.12	27.39	-90.32	-392.24	-206.49	772.26	719.06	53.20	14.516		
7,450.00	7,434.07	7,455.15	7,435.12	27.30	27.57	-90.62	-392.23	-210.63	772.30	718.72	53.58	14.414		
7,500.00	7,482.49	7,505.91	7,485.13	27.49	27.77	-90.92	-392.19	-219.23	772.35	718.37	53.98	14.309		
7,550.00	7,529.64	7,557.03	7,534.53	27.69	27.97	-91.21	-392.13	-232.34	772.42	718.03	54.40	14.200		
7,600.00	7,575.16	7,608.53	7,582.90	27.90	28.19	-91.49	-392.06	-249.94	772.52	717.68	54.84	14.087		
7,650.00	7,618.71	7,660.38	7,629.82	28.11	28.42	-91.77	-391.96	-271.98	772.62	717.31	55.31	13.969		
7,700.00	7,659.96	7,712.60	7,674.86	28.34	28.66	-92.03	-391.84	-298.37	772.74	716.93	55.81	13.846		
7,750.00	7,698.59	7,765.15	7,717.57	28.59	28.92	-92.27	-391.71	-328.95	772.86	716.51	56.35	13.715		
7,800.00	7,734.31	7,818.03	7,757.54	28.86	29.20	-92.50	-391.56	-363.54	772.99	716.04	56.95	13.574		
7,850.00	7,766.84	7,871.22	7,794.36	29.16	29.51	-92.71	-391.39	-401.90	773.12	715.52	57.60	13.423		
7,900.00	7,795.95	7,924.68	7,827.63	29.49	29.85	-92.89	-391.21	-443.73	773.24	714.92	58.32	13.258		
7,950.00	7,821.40	7,978.40	7,856.98	29.86	30.24	-93.06	-391.01	-488.70	773.35	714.22	59.13	13.079		
8,000.00	7,843.01	8,032.34	7,882.09	30.28	30.67	-93.20	-390.81	-536.42	773.46	713.43	60.03	12.885		
8,050.00	7,860.61	8,086.47	7,902.66	30.74	31.17	-93.31	-390.59	-586.46	773.54	712.52	61.02	12.677		
8,100.00	7,874.06	8,140.74	7,918.46	31.25	31.71	-93.39	-390.36	-638.36	773.61	711.50	62.11	12.456		
8,150.00	7,883.26	8,195.12	7,929.29	31.80	32.31	-93.45	-390.13	-691.63	773.66	710.37	63.29	12.224		
8,200.00	7,888.15	8,249.57	7,935.03	32.39	32.96	-93.48	-389.89	-745.75	773.68	709.13	64.55	11.986		
8,231.14	7,889.00	8,283.49	7,936.00	32.77	33.38	-93.48	-389.74	-779.65	773.68	708.31	65.37	11.836		
8,234.37	7,889.00	8,287.01	7,935.99	32.81	33.43	-93.48	-389.73	-783.17	773.68	708.23	65.46	11.820		
8,300.00	7,889.00	8,352.30	7,936.00	33.66	34.32	-93.48	-389.44	-848.46	773.68	706.45	67.24	11.507		
8,400.00	7,889.00	8,452.30	7,936.00	35.10	35.78	-93.48	-389.01	-948.46	773.68	703.50	70.18	11.024		
8,500.00	7,889.00	8,552.30	7,936.00	36.68	37.39	-93.48	-388.57	-1,048.46	773.68	700.28	73.41	10.540		
8,600.00	7,889.00	8,652.30	7,935.99	38.38	39.11	-93.48	-388.13	-1,148.46	773.68	696.82	76.87	10.065		
8,700.00	7,889.00	8,752.30	7,935.99	40.19	40.95	-93.48	-387.70	-1,248.46	773.68	693.14	80.54	9.606		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	7,889.00	8,852.30	7,935.99	42.09	42.87	-93.48	-387.26	-1,348.46	773.68	689.29	84.40	9.167		
8,900.00	7,889.00	8,952.30	7,935.99	44.08	44.87	-93.48	-386.83	-1,448.46	773.68	685.28	88.41	8.751		
9,000.00	7,889.00	9,052.30	7,935.99	46.14	46.95	-93.48	-386.39	-1,548.46	773.69	681.13	92.56	8.359		
9,100.00	7,889.00	9,152.30	7,935.99	48.26	49.08	-93.48	-385.95	-1,648.45	773.69	676.86	96.83	7.990		
9,200.00	7,889.00	9,252.30	7,935.99	50.44	51.27	-93.48	-385.52	-1,748.45	773.69	672.48	101.21	7.645		
9,300.00	7,889.00	9,352.30	7,935.98	52.66	53.50	-93.48	-385.08	-1,848.45	773.69	668.01	105.67	7.321		
9,400.00	7,889.00	9,452.30	7,935.98	54.93	55.78	-93.48	-384.64	-1,948.45	773.69	663.46	110.22	7.019		
9,500.00	7,889.00	9,552.30	7,935.98	57.23	58.09	-93.48	-384.21	-2,048.45	773.69	658.84	114.84	6.737		
9,600.00	7,889.00	9,652.30	7,935.98	59.56	60.43	-93.48	-383.77	-2,148.45	773.69	654.16	119.53	6.473		
9,700.00	7,889.00	9,752.30	7,935.98	61.93	62.80	-93.48	-383.33	-2,248.45	773.69	649.42	124.26	6.226		
9,800.00	7,889.00	9,852.30	7,935.98	64.31	65.20	-93.48	-382.90	-2,348.45	773.69	644.64	129.05	5.995		
9,900.00	7,889.00	9,952.30	7,935.98	66.73	67.61	-93.48	-382.46	-2,448.45	773.69	639.80	133.88	5.779		
10,000.00	7,889.00	10,052.30	7,935.97	69.16	70.05	-93.48	-382.03	-2,548.45	773.69	634.93	138.76	5.576		
10,100.00	7,889.00	10,152.30	7,935.97	71.61	72.50	-93.48	-381.59	-2,648.45	773.69	630.03	143.66	5.385		
10,200.00	7,889.00	10,252.30	7,935.97	74.08	74.98	-93.48	-381.15	-2,748.44	773.69	625.09	148.60	5.206		
10,300.00	7,889.00	10,352.30	7,935.97	76.56	77.46	-93.48	-380.72	-2,848.44	773.69	620.12	153.57	5.038		
10,400.00	7,889.00	10,452.30	7,935.97	79.06	79.96	-93.48	-380.28	-2,948.44	773.69	615.12	158.57	4.879		
10,500.00	7,889.00	10,552.30	7,935.97	81.56	82.47	-93.48	-379.84	-3,048.44	773.69	610.10	163.59	4.730		
10,600.00	7,889.00	10,652.30	7,935.97	84.08	84.99	-93.48	-379.41	-3,148.44	773.69	605.06	168.63	4.588		
10,700.00	7,889.00	10,752.30	7,935.96	86.61	87.53	-93.48	-378.97	-3,248.44	773.69	600.00	173.69	4.455		
10,800.00	7,889.00	10,852.30	7,935.96	89.15	90.07	-93.48	-378.54	-3,348.44	773.69	594.93	178.76	4.328		
10,900.00	7,889.00	10,952.30	7,935.96	91.70	92.62	-93.48	-378.10	-3,448.44	773.69	589.83	183.86	4.208		
11,000.00	7,889.00	11,052.30	7,935.96	94.26	95.18	-93.48	-377.66	-3,548.44	773.69	584.72	188.97	4.094		
11,100.00	7,889.00	11,152.30	7,935.96	96.82	97.74	-93.48	-377.23	-3,648.44	773.69	579.60	194.09	3.986		
11,200.00	7,889.00	11,252.30	7,935.96	99.39	100.31	-93.48	-376.79	-3,748.43	773.69	574.46	199.23	3.883		
11,300.00	7,889.00	11,352.30	7,935.96	101.97	102.89	-93.48	-376.35	-3,848.43	773.69	569.31	204.38	3.786		
11,400.00	7,889.00	11,452.30	7,935.95	104.55	105.47	-93.48	-375.92	-3,948.43	773.69	564.15	209.54	3.692		
11,500.00	7,889.00	11,552.30	7,935.95	107.13	108.06	-93.48	-375.48	-4,048.43	773.69	558.98	214.71	3.603		
11,600.00	7,889.00	11,652.30	7,935.95	109.73	110.65	-93.48	-375.04	-4,148.43	773.69	553.80	219.89	3.518		
11,700.00	7,889.00	11,752.30	7,935.95	112.32	113.25	-93.48	-374.61	-4,248.43	773.69	548.61	225.08	3.437		
11,800.00	7,889.00	11,852.30	7,935.95	114.92	115.85	-93.48	-374.17	-4,348.43	773.69	543.41	230.28	3.360		
11,900.00	7,889.00	11,952.30	7,935.95	117.53	118.46	-93.48	-373.74	-4,448.43	773.69	538.21	235.49	3.286		
12,000.00	7,889.00	12,052.30	7,935.95	120.14	121.07	-93.48	-373.30	-4,548.43	773.69	533.00	240.70	3.214		
12,100.00	7,889.00	12,152.30	7,935.94	122.75	123.68	-93.48	-372.86	-4,648.43	773.69	527.78	245.92	3.146		
12,200.00	7,889.00	12,252.30	7,935.94	125.36	126.30	-93.48	-372.43	-4,748.43	773.70	522.55	251.14	3.081		
12,300.00	7,889.00	12,352.30	7,935.94	127.98	128.92	-93.48	-371.99	-4,848.42	773.70	517.32	256.38	3.018		
12,400.00	7,888.99	12,452.30	7,935.94	130.60	131.54	-93.48	-371.55	-4,948.42	773.70	512.08	261.61	2.957		
12,500.00	7,888.99	12,552.30	7,935.94	133.23	134.16	-93.48	-371.12	-5,048.42	773.70	506.84	266.86	2.899		
12,600.00	7,888.99	12,652.30	7,935.94	135.85	136.79	-93.48	-370.68	-5,148.42	773.70	501.59	272.11	2.843		
12,700.00	7,888.99	12,752.30	7,935.93	138.48	139.42	-93.48	-370.24	-5,248.42	773.70	496.34	277.36	2.790		
12,800.00	7,888.99	12,852.30	7,935.93	141.12	142.05	-93.48	-369.81	-5,348.42	773.70	491.08	282.62	2.738		
12,900.00	7,888.99	12,952.30	7,935.93	143.75	144.68	-93.48	-369.37	-5,448.42	773.70	485.82	287.88	2.688		
13,000.00	7,888.99	13,052.30	7,935.93	146.38	147.32	-93.48	-368.94	-5,548.42	773.70	480.56	293.14	2.639		
13,100.00	7,888.99	13,152.30	7,935.93	149.02	149.96	-93.48	-368.50	-5,648.42	773.70	475.29	298.41	2.593		
13,200.00	7,888.99	13,252.30	7,935.93	151.66	152.60	-93.48	-368.06	-5,748.42	773.70	470.01	303.68	2.548		
13,300.00	7,888.99	13,352.30	7,935.93	154.30	155.24	-93.48	-367.63	-5,848.41	773.70	464.74	308.96	2.504		
13,400.00	7,888.99	13,452.30	7,935.92	156.94	157.88	-93.48	-367.19	-5,948.41	773.70	459.46	314.24	2.462		
13,500.00	7,888.99	13,552.30	7,935.92	159.59	160.53	-93.48	-366.75	-6,048.41	773.70	454.18	319.52	2.421		
13,600.00	7,888.99	13,652.30	7,935.92	162.24	163.17	-93.48	-366.32	-6,148.41	773.70	448.89	324.81	2.382		
13,700.00	7,888.99	13,752.30	7,935.92	164.88	165.82	-93.48	-365.88	-6,248.41	773.70	443.61	330.09	2.344		
13,800.00	7,888.99	13,852.30	7,935.92	167.53	168.47	-93.48	-365.45	-6,348.41	773.70	438.31	335.39	2.307		
13,900.00	7,888.99	13,952.30	7,935.92	170.18	171.12	-93.48	-365.01	-6,448.41	773.70	433.02	340.68	2.271		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,888.99	14,052.30	7,935.92	172.83	173.77	-93.48	-364.57	-6,548.41	773.70	427.73	345.97	2.236		
14,100.00	7,888.99	14,152.30	7,935.91	175.48	176.42	-93.48	-364.14	-6,648.41	773.70	422.43	351.27	2.203		
14,200.00	7,888.99	14,252.30	7,935.91	178.14	179.08	-93.48	-363.70	-6,748.41	773.70	417.13	356.57	2.170		
14,300.00	7,888.99	14,352.30	7,935.91	180.79	181.73	-93.48	-363.26	-6,848.41	773.70	411.83	361.87	2.138		
14,400.00	7,888.99	14,452.30	7,935.91	183.45	184.39	-93.48	-362.83	-6,948.40	773.70	406.52	367.18	2.107		
14,500.00	7,888.99	14,552.30	7,935.91	186.10	187.04	-93.48	-362.39	-7,048.40	773.70	401.22	372.48	2.077		
14,600.00	7,888.99	14,652.30	7,935.91	188.76	189.70	-93.48	-361.95	-7,148.40	773.70	395.91	377.79	2.048		
14,700.00	7,888.99	14,752.30	7,935.91	191.42	192.36	-93.48	-361.52	-7,248.40	773.70	390.60	383.10	2.020		
14,800.00	7,888.99	14,852.30	7,935.90	194.08	195.02	-93.48	-361.08	-7,348.40	773.70	385.29	388.41	1.992		
14,900.00	7,888.99	14,952.30	7,935.90	196.74	197.68	-93.48	-360.65	-7,448.40	773.70	379.98	393.73	1.965		
15,000.00	7,888.99	15,052.30	7,935.90	199.40	200.34	-93.48	-360.21	-7,548.40	773.70	374.66	399.04	1.939		
15,100.00	7,888.99	15,152.30	7,935.90	202.06	203.00	-93.48	-359.77	-7,648.40	773.70	369.35	404.36	1.913		
15,200.00	7,888.99	15,252.30	7,935.90	204.72	205.67	-93.48	-359.34	-7,748.40	773.70	364.03	409.68	1.889		
15,300.00	7,888.99	15,352.30	7,935.90	207.39	208.33	-93.48	-358.90	-7,848.40	773.71	358.71	414.99	1.864		
15,400.00	7,888.99	15,452.30	7,935.90	210.05	210.99	-93.48	-358.46	-7,948.39	773.71	353.39	420.31	1.841		
15,500.00	7,888.99	15,552.30	7,935.89	212.71	213.66	-93.48	-358.03	-8,048.39	773.71	348.07	425.64	1.818		
15,600.00	7,888.99	15,652.30	7,935.89	215.38	216.32	-93.48	-357.59	-8,148.39	773.71	342.75	430.96	1.795		
15,700.00	7,888.99	15,752.30	7,935.89	218.05	218.99	-93.48	-357.15	-8,248.39	773.71	337.42	436.28	1.773		
15,800.00	7,888.99	15,852.30	7,935.89	220.71	221.65	-93.48	-356.72	-8,348.39	773.71	332.10	441.61	1.752		
15,900.00	7,888.99	15,952.30	7,935.89	223.38	224.32	-93.48	-356.28	-8,448.39	773.71	326.77	446.93	1.731		
16,000.00	7,888.99	16,052.30	7,935.89	226.05	226.99	-93.47	-355.85	-8,548.39	773.71	321.45	452.26	1.711		
16,100.00	7,888.99	16,152.30	7,935.89	228.71	229.66	-93.47	-355.41	-8,648.39	773.71	316.12	457.59	1.691		
16,200.00	7,888.99	16,252.30	7,935.88	231.38	232.33	-93.47	-354.97	-8,748.39	773.71	310.79	462.92	1.671		
16,300.00	7,888.99	16,352.30	7,935.88	234.05	234.99	-93.47	-354.54	-8,848.39	773.71	305.46	468.25	1.652		
16,400.00	7,888.99	16,452.30	7,935.88	236.72	237.66	-93.47	-354.10	-8,948.39	773.71	300.13	473.58	1.634		
16,500.00	7,888.99	16,552.30	7,935.88	239.39	240.33	-93.47	-353.66	-9,048.38	773.71	294.80	478.91	1.616		
16,600.00	7,888.99	16,652.30	7,935.88	242.06	243.00	-93.47	-353.23	-9,148.38	773.71	289.46	484.25	1.598		
16,700.00	7,888.99	16,752.30	7,935.88	244.73	245.67	-93.47	-352.79	-9,248.38	773.71	284.13	489.58	1.580		
16,800.00	7,888.99	16,852.30	7,935.88	247.40	248.35	-93.47	-352.35	-9,348.38	773.71	278.80	494.91	1.563		
16,900.00	7,888.99	16,952.30	7,935.87	250.07	251.02	-93.47	-351.92	-9,448.38	773.71	273.46	500.25	1.547		
17,000.00	7,888.99	17,052.30	7,935.87	252.75	253.69	-93.47	-351.48	-9,548.38	773.71	268.13	505.59	1.530		
17,100.00	7,888.99	17,152.30	7,935.87	255.42	256.36	-93.47	-351.05	-9,648.38	773.71	262.79	510.92	1.514		
17,200.00	7,888.99	17,252.30	7,935.87	258.09	259.03	-93.47	-350.61	-9,748.38	773.71	257.45	516.26	1.499 Level 3		
17,300.00	7,888.99	17,352.30	7,935.87	260.76	261.71	-93.47	-350.17	-9,848.38	773.71	252.11	521.60	1.483 Level 3		
17,400.00	7,888.99	17,452.30	7,935.87	263.44	264.38	-93.47	-349.74	-9,948.38	773.71	246.78	526.94	1.468 Level 3		
17,500.00	7,888.99	17,552.30	7,935.86	266.11	267.05	-93.47	-349.30	-10,048.38	773.71	241.44	532.28	1.454 Level 3		
17,600.00	7,888.99	17,652.30	7,935.86	268.78	269.73	-93.47	-348.86	-10,148.37	773.71	236.10	537.62	1.439 Level 3		
17,700.00	7,888.99	17,752.30	7,935.86	271.46	272.40	-93.47	-348.43	-10,248.37	773.71	230.76	542.96	1.425 Level 3		
17,800.00	7,888.99	17,852.30	7,935.86	274.13	275.08	-93.47	-347.99	-10,348.37	773.71	225.41	548.30	1.411 Level 3		
17,900.00	7,888.99	17,952.07	7,935.97	276.81	277.75	-93.48	-347.57	-10,448.14	773.73	220.10	553.63	1.398 Level 3		
17,916.98	7,888.99	17,969.05	7,936.00	277.26	278.20	-93.48	-347.49	-10,465.12	773.73	219.20	554.54	1.395 Level 3		
17,917.28	7,889.00	17,969.35	7,936.00	277.27	278.21	-93.48	-347.49	-10,465.42	773.68	219.13	554.55	1.395 Level 3, SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	106.87	106.87					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	106.87	106.87	106.61	0.27	397.519		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	106.87	106.87	105.89	0.99	108.414		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	106.87	106.87	105.17	1.70	62.766		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	106.87	106.87	104.45	2.42	44.169		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	106.87	106.87	103.74	3.14	34.073		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	106.87	106.87	103.02	3.85	27.734		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	106.87	106.87	102.30	4.57	23.384		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	106.87	106.87	101.59	5.29	20.213		
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	106.87	106.87	100.87	6.00	17.799		
1,000.00	1,000.00	1,001.35	1,001.33	3.36	3.35	90.90	-1.67	106.21	106.24	99.53	6.71	15.837		
1,100.00	1,099.98	1,102.35	1,102.18	3.72	3.68	122.61	-6.64	104.24	105.41	98.01	7.40	14.250		
1,111.36	1,111.33	1,113.77	1,113.57	3.76	3.72	123.23	-7.41	103.94	105.39	97.92	7.48	14.098	CC, ES	
1,200.00	1,199.84	1,202.40	1,201.84	4.08	4.02	129.50	-14.82	101.00	106.40	98.30	8.09	13.148		
1,202.60	1,202.43	1,204.99	1,204.41	4.09	4.03	129.72	-15.08	100.90	106.46	98.35	8.11	13.126		
1,300.00	1,299.59	1,301.22	1,299.91	4.44	4.37	138.52	-26.07	96.54	110.09	101.29	8.80	12.511		
1,400.00	1,399.34	1,400.66	1,397.06	4.80	4.73	147.59	-38.89	91.45	116.60	107.08	9.52	12.246		
1,500.00	1,499.09	1,502.54	1,494.20	5.16	5.12	155.55	-51.71	86.37	125.76	115.51	10.26	12.263		
1,600.00	1,598.84	1,604.42	1,591.35	5.53	5.51	162.35	-64.53	81.29	137.05	126.06	10.99	12.471		
1,700.00	1,698.59	1,706.30	1,688.49	5.89	5.91	168.07	-77.35	76.20	149.98	138.26	11.72	12.794		
1,800.00	1,798.34	1,791.81	1,785.64	6.26	6.25	172.86	-90.17	71.12	164.17	151.78	12.39	13.249		
1,900.00	1,898.09	1,889.93	1,882.78	6.63	6.65	176.87	-102.98	66.04	179.31	166.21	13.11	13.680		
2,000.00	1,997.84	1,988.05	1,979.92	7.00	7.04	-179.74	-115.80	60.96	195.20	181.37	13.82	14.119		
2,100.00	2,097.59	2,086.17	2,077.07	7.37	7.44	-176.87	-128.62	55.87	211.65	197.11	14.54	14.555		
2,200.00	2,197.34	2,184.29	2,174.21	7.74	7.85	-174.41	-141.44	50.79	228.55	213.29	15.26	14.978		
2,300.00	2,297.09	2,282.41	2,271.36	8.11	8.25	-172.30	-154.26	45.71	245.80	229.82	15.98	15.384		
2,400.00	2,396.84	2,380.53	2,368.50	8.48	8.66	-170.46	-167.08	40.62	263.34	246.64	16.70	15.773		
2,500.00	2,496.59	2,478.64	2,465.65	8.85	9.07	-168.85	-179.89	35.54	281.11	263.69	17.42	16.141		
2,600.00	2,596.34	2,576.76	2,562.79	9.22	9.48	-167.43	-192.71	30.46	299.07	280.93	18.14	16.491		
2,700.00	2,696.09	2,674.88	2,659.94	9.59	9.89	-166.17	-205.53	25.38	317.19	298.33	18.86	16.822		
2,800.00	2,795.84	2,773.00	2,757.08	9.97	10.31	-165.05	-218.35	20.29	335.44	315.86	19.58	17.134		
2,900.00	2,895.59	2,871.12	2,854.23	10.34	10.72	-164.04	-231.17	15.21	353.80	333.51	20.30	17.429		
3,000.00	2,995.34	2,969.24	2,951.37	10.71	11.14	-163.13	-243.99	10.13	372.26	351.24	21.02	17.708		
3,100.00	3,095.09	3,067.36	3,048.52	11.08	11.55	-162.31	-256.80	5.05	390.80	369.06	21.74	17.972		
3,200.00	3,194.84	3,165.48	3,145.66	11.46	11.97	-161.57	-269.62	-0.04	409.42	386.95	22.47	18.222		
3,300.00	3,294.59	3,263.59	3,242.81	11.83	12.38	-160.88	-282.44	-5.12	428.09	404.90	23.19	18.458		
3,400.00	3,394.34	3,361.71	3,339.95	12.20	12.80	-160.26	-295.26	-10.20	446.82	422.90	23.92	18.683		
3,500.00	3,494.09	3,459.83	3,437.10	12.58	13.22	-159.68	-308.08	-15.29	465.59	440.95	24.64	18.895		
3,600.00	3,593.84	3,557.95	3,534.24	12.95	13.64	-159.15	-320.90	-20.37	484.41	459.04	25.37	19.097		
3,700.00	3,693.59	3,656.07	3,631.39	13.32	14.06	-158.66	-333.72	-25.45	503.26	477.17	26.09	19.288		
3,800.00	3,793.34	3,754.19	3,728.53	13.70	14.48	-158.21	-346.53	-30.53	522.15	495.33	26.82	19.471		
3,900.00	3,893.09	3,852.31	3,825.68	14.07	14.90	-157.78	-359.35	-35.62	541.06	513.52	27.54	19.644		
4,000.00	3,992.84	3,950.42	3,922.82	14.44	15.32	-157.39	-372.17	-40.70	560.00	531.73	28.27	19.810		
4,100.00	4,092.59	4,048.54	4,019.97	14.82	15.74	-157.02	-384.99	-45.78	578.97	549.98	29.00	19.967		
4,200.00	4,192.34	4,146.66	4,117.11	15.19	16.16	-156.67	-397.81	-50.87	597.96	568.24	29.72	20.118		
4,300.00	4,292.09	4,244.78	4,214.26	15.57	16.58	-156.35	-410.63	-55.95	616.97	586.52	30.45	20.262		
4,400.00	4,391.84	4,342.90	4,311.40	15.94	17.00	-156.04	-423.44	-61.03	635.99	604.82	31.18	20.400		
4,500.00	4,491.59	4,441.02	4,408.55	16.31	17.42	-155.76	-436.26	-66.11	655.04	623.13	31.90	20.531		
4,600.00	4,591.34	4,539.14	4,505.69	16.69	17.84	-155.48	-449.08	-71.20	674.09	641.46	32.63	20.658		
4,700.00	4,691.09	4,637.26	4,602.84	17.06	18.26	-155.23	-461.90	-76.28	693.16	659.80	33.36	20.779		
4,800.00	4,790.84	4,735.37	4,699.98	17.44	18.68	-154.99	-474.72	-81.36	712.25	678.16	34.09	20.895		
4,900.00	4,890.59	4,833.49	4,797.13	17.81	19.11	-154.76	-487.54	-86.44	731.34	696.53	34.82	21.006		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,990.34	4,931.61	4,894.27	18.19	19.53	-154.54	-500.35	-91.53	750.45	714.91	35.54	21.113		
5,100.00	5,090.09	5,029.73	4,991.42	18.56	19.95	-154.33	-513.17	-96.61	769.57	733.29	36.27	21.216		
5,200.00	5,189.84	5,127.85	5,088.56	18.93	20.37	-154.13	-525.99	-101.69	788.69	751.69	37.00	21.316		
5,300.00	5,289.59	5,225.97	5,185.71	19.31	20.80	-153.94	-538.81	-106.78	807.83	770.10	37.73	21.411		
5,400.00	5,389.34	5,324.09	5,282.85	19.68	21.22	-153.77	-551.63	-111.86	826.97	788.51	38.46	21.503		
5,500.00	5,489.09	5,422.20	5,380.00	20.06	21.64	-153.59	-564.45	-116.94	846.12	806.93	39.19	21.592		
5,600.00	5,588.84	5,520.32	5,477.14	20.43	22.06	-153.43	-577.26	-122.02	865.27	825.36	39.92	21.677		
5,700.00	5,688.59	5,618.44	5,574.28	20.81	22.49	-153.27	-590.08	-127.11	884.44	843.79	40.65	21.760		
5,800.00	5,788.34	5,716.56	5,671.43	21.18	22.91	-153.12	-602.90	-132.19	903.61	862.23	41.38	21.839		
5,900.00	5,888.09	5,814.68	5,768.57	21.56	23.33	-152.98	-615.72	-137.27	922.78	880.68	42.10	21.916		
6,000.00	5,987.84	5,912.80	5,865.72	21.93	23.76	-152.84	-628.54	-142.36	941.96	899.13	42.83	21.991		
6,100.00	6,087.59	6,010.92	5,962.86	22.30	24.18	-152.71	-641.36	-147.44	961.15	917.58	43.56	22.063		
6,200.00	6,187.34	6,109.04	6,060.01	22.68	24.60	-152.58	-654.17	-152.52	980.34	936.04	44.29	22.133		
6,300.00	6,287.09	6,207.15	6,157.15	23.05	25.03	-152.46	-666.99	-157.60	999.53	954.51	45.02	22.200		
6,400.00	6,386.84	6,305.27	6,254.30	23.43	25.45	-152.34	-679.81	-162.69	1,018.73	972.98	45.75	22.265		
6,500.00	6,486.59	6,403.39	6,351.44	23.80	25.87	-152.23	-692.63	-167.77	1,037.93	991.45	46.48	22.329		
6,600.00	6,586.34	6,501.51	6,448.59	24.18	26.30	-152.12	-705.45	-172.85	1,057.14	1,009.92	47.21	22.390		
6,700.00	6,686.09	6,600.37	6,545.73	24.55	26.72	-152.02	-718.27	-177.94	1,076.35	1,028.40	47.95	22.448		
6,800.00	6,785.84	6,697.75	6,642.88	24.93	27.15	-151.91	-731.09	-183.02	1,095.56	1,046.89	48.68	22.508		
6,900.00	6,885.59	6,804.13	6,740.02	25.30	27.60	-151.82	-743.90	-188.10	1,114.78	1,065.34	49.44	22.549		
7,000.00	6,985.34	6,893.98	6,837.17	25.68	27.99	-151.72	-756.72	-193.18	1,134.00	1,083.86	50.14	22.618		
7,098.48	7,083.57	7,020.47	6,962.55	26.04	28.53	-151.62	-772.22	-199.33	1,152.28	1,101.22	51.06	22.567		
7,100.00	7,085.09	7,022.87	6,964.93	26.05	28.54	-151.63	-772.47	-199.43	1,152.53	1,101.46	51.08	22.565		
7,200.00	7,184.95	7,181.97	7,123.44	26.42	29.15	-151.70	-784.96	-204.38	1,165.01	1,112.89	52.12	22.352		
7,299.99	7,284.91	7,342.86	7,284.24	26.77	29.69	-151.72	-789.25	-206.08	1,169.25	1,116.23	53.03	22.051		
7,301.08	7,286.00	7,344.62	7,286.00	26.77	29.69	-179.86	-789.25	-206.08	1,169.25	1,116.22	53.03	22.047		
7,331.08	7,316.00	7,374.62	7,316.00	26.88	29.78	-179.86	-789.25	-206.08	1,169.25	1,116.02	53.23	21.964		
7,331.08	7,316.00	7,374.62	7,316.00	26.88	29.78	-179.86	-789.25	-206.08	1,169.25	1,116.02	53.23	21.964		
7,350.00	7,334.92	7,393.61	7,334.99	26.94	29.83	-90.11	-789.25	-206.40	1,169.25	1,115.89	53.36	21.911		
7,400.00	7,384.76	7,443.80	7,385.02	27.12	30.00	-90.11	-789.23	-210.25	1,169.25	1,115.54	53.72	21.766		
7,450.00	7,434.07	7,493.99	7,434.51	27.30	30.17	-90.11	-789.20	-218.47	1,169.26	1,115.16	54.10	21.614		
7,500.00	7,482.49	7,544.17	7,483.09	27.49	30.35	-90.11	-789.14	-230.99	1,169.26	1,114.76	54.49	21.457		
7,550.00	7,529.64	7,594.35	7,530.39	27.69	30.54	-90.10	-789.07	-247.70	1,169.26	1,114.35	54.91	21.294		
7,600.00	7,575.16	7,644.52	7,576.03	27.90	30.74	-90.10	-788.98	-268.48	1,169.26	1,113.91	55.35	21.126		
7,650.00	7,618.71	7,694.69	7,619.68	28.11	30.94	-90.09	-788.88	-293.17	1,169.26	1,113.45	55.81	20.949		
7,700.00	7,659.96	7,744.84	7,661.00	28.34	31.16	-90.09	-788.76	-321.58	1,169.26	1,112.95	56.31	20.763		
7,750.00	7,698.59	7,794.99	7,699.67	28.59	31.38	-90.08	-788.62	-353.49	1,169.27	1,112.41	56.86	20.565		
7,800.00	7,734.31	7,845.12	7,735.39	28.86	31.62	-90.08	-788.47	-388.64	1,169.27	1,111.82	57.45	20.353		
7,850.00	7,766.84	7,895.25	7,767.89	29.16	31.87	-90.07	-788.31	-426.77	1,169.27	1,111.17	58.10	20.124		
7,900.00	7,795.95	7,945.36	7,796.94	29.49	32.15	-90.06	-788.13	-467.59	1,169.28	1,110.45	58.83	19.876		
7,950.00	7,821.40	7,995.45	7,822.30	29.86	32.46	-90.05	-787.95	-510.77	1,169.28	1,109.65	59.63	19.608		
8,000.00	7,843.01	8,045.53	7,843.79	30.28	32.80	-90.04	-787.75	-555.99	1,169.28	1,108.76	60.52	19.319		
8,050.00	7,860.61	8,095.60	7,861.24	30.74	33.18	-90.03	-787.55	-602.90	1,169.29	1,107.79	61.50	19.012		
8,100.00	7,874.06	8,145.65	7,874.53	31.25	33.61	-90.02	-787.35	-651.13	1,169.29	1,106.72	62.57	18.688		
8,150.00	7,883.26	8,195.68	7,883.56	31.80	34.09	-90.02	-787.14	-700.33	1,169.30	1,105.58	63.71	18.352		
8,200.00	7,888.15	8,245.70	7,888.27	32.39	34.61	-90.01	-786.92	-750.11	1,169.30	1,104.37	64.93	18.008		
8,231.14	7,889.00	8,276.85	7,889.00	32.77	34.95	-90.00	-786.79	-781.24	1,169.30	1,103.58	65.72	17.791		
8,300.00	7,889.00	8,345.71	7,889.00	33.66	35.79	-90.00	-786.49	-850.10	1,169.31	1,101.71	67.59	17.299		
8,400.00	7,889.00	8,445.71	7,889.00	35.10	37.13	-90.00	-786.07	-950.10	1,169.32	1,098.77	70.54	16.576		
8,500.00	7,889.00	8,545.71	7,889.00	36.68	38.63	-90.00	-785.64	-1,050.10	1,169.33	1,095.56	73.77	15.851		
8,600.00	7,889.00	8,645.71	7,889.00	38.38	40.27	-90.00	-785.21	-1,150.10	1,169.33	1,092.10	77.24	15.140		
8,700.00	7,889.00	8,745.71	7,888.99	40.19	42.02	-90.00	-784.78	-1,250.10	1,169.34	1,088.43	80.91	14.452		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	7,889.00	8,845.71	7,888.99	42.09	43.88	-90.00	-784.35	-1,350.10	1,169.35	1,084.58	84.77	13.794		
8,900.00	7,889.00	8,945.72	7,888.99	44.08	45.83	-90.00	-783.92	-1,450.10	1,169.36	1,080.57	88.79	13.170		
9,000.00	7,889.00	9,045.72	7,888.99	46.14	47.85	-90.00	-783.49	-1,550.11	1,169.37	1,076.42	92.94	12.582		
9,100.00	7,889.00	9,145.72	7,888.99	48.26	49.94	-90.00	-783.06	-1,650.11	1,169.37	1,072.16	97.22	12.028		
9,200.00	7,889.00	9,245.72	7,888.99	50.44	52.08	-90.00	-782.64	-1,750.11	1,169.38	1,067.78	101.60	11.510		
9,300.00	7,889.00	9,345.72	7,888.99	52.66	54.28	-90.00	-782.21	-1,850.11	1,169.39	1,063.32	106.07	11.025		
9,400.00	7,889.00	9,445.73	7,888.99	54.93	56.52	-90.00	-781.78	-1,950.11	1,169.39	1,058.77	110.62	10.571		
9,500.00	7,889.00	9,545.73	7,888.99	57.23	58.80	-90.00	-781.35	-2,050.11	1,169.40	1,054.15	115.25	10.147		
9,600.00	7,889.00	9,645.73	7,888.98	59.56	61.12	-90.00	-780.92	-2,150.11	1,169.41	1,049.47	119.93	9.750		
9,700.00	7,889.00	9,745.73	7,888.98	61.93	63.46	-90.00	-780.48	-2,250.11	1,169.41	1,044.74	124.68	9.379		
9,800.00	7,889.00	9,845.73	7,888.98	64.31	65.83	-90.00	-780.05	-2,350.11	1,169.42	1,039.95	129.47	9.032		
9,900.00	7,889.00	9,945.74	7,888.98	66.73	68.23	-90.00	-779.62	-2,450.11	1,169.43	1,035.12	134.31	8.707		
10,000.00	7,889.00	10,045.74	7,888.98	69.16	70.65	-90.00	-779.19	-2,550.12	1,169.43	1,030.25	139.19	8.402		
10,100.00	7,889.00	10,145.74	7,888.98	71.61	73.08	-90.00	-778.76	-2,650.12	1,169.44	1,025.34	144.10	8.116		
10,200.00	7,889.00	10,245.74	7,888.98	74.08	75.54	-90.00	-778.33	-2,750.12	1,169.44	1,020.40	149.04	7.846		
10,300.00	7,889.00	10,345.74	7,888.98	76.56	78.01	-90.00	-777.90	-2,850.12	1,169.45	1,015.43	154.02	7.593		
10,400.00	7,889.00	10,445.75	7,888.98	79.06	80.49	-90.00	-777.47	-2,950.12	1,169.45	1,010.43	159.02	7.354		
10,500.00	7,889.00	10,545.75	7,888.98	81.56	82.99	-90.00	-777.04	-3,050.12	1,169.46	1,005.41	164.04	7.129		
10,600.00	7,889.00	10,645.75	7,888.98	84.08	85.50	-90.00	-776.60	-3,150.12	1,169.46	1,000.37	169.09	6.916		
10,700.00	7,889.00	10,745.75	7,888.98	86.61	88.02	-90.00	-776.17	-3,250.12	1,169.47	995.31	174.16	6.715		
10,800.00	7,889.00	10,845.75	7,888.98	89.15	90.55	-90.00	-775.74	-3,350.12	1,169.47	990.23	179.24	6.525		
10,900.00	7,889.00	10,945.76	7,888.97	91.70	93.09	-90.00	-775.31	-3,450.13	1,169.48	985.13	184.34	6.344		
11,000.00	7,889.00	11,045.76	7,888.97	94.26	95.64	-90.00	-774.87	-3,550.13	1,169.48	980.02	189.46	6.173		
11,100.00	7,889.00	11,145.76	7,888.97	96.82	98.19	-90.00	-774.44	-3,650.13	1,169.48	974.89	194.59	6.010		
11,200.00	7,889.00	11,245.76	7,888.97	99.39	100.75	-90.00	-774.01	-3,750.13	1,169.49	969.75	199.74	5.855		
11,300.00	7,889.00	11,345.76	7,888.97	101.97	103.32	-90.00	-773.58	-3,850.13	1,169.49	964.60	204.89	5.708		
11,400.00	7,889.00	11,445.77	7,888.97	104.55	105.90	-90.00	-773.14	-3,950.13	1,169.50	959.43	210.06	5.567		
11,500.00	7,889.00	11,545.77	7,888.97	107.13	108.48	-90.00	-772.71	-4,050.13	1,169.50	954.26	215.24	5.434		
11,600.00	7,889.00	11,645.77	7,888.97	109.73	111.06	-90.00	-772.28	-4,150.13	1,169.50	949.08	220.43	5.306		
11,700.00	7,889.00	11,745.77	7,888.97	112.32	113.66	-90.00	-771.84	-4,250.13	1,169.50	943.88	225.62	5.183		
11,800.00	7,889.00	11,845.77	7,888.97	114.92	116.25	-90.00	-771.41	-4,350.13	1,169.51	938.68	230.83	5.067		
11,900.00	7,889.00	11,945.78	7,888.97	117.53	118.85	-90.00	-770.97	-4,450.14	1,169.51	933.47	236.04	4.955		
12,000.00	7,889.00	12,045.78	7,888.97	120.14	121.45	-90.00	-770.54	-4,550.14	1,169.51	928.25	241.26	4.848		
12,100.00	7,889.00	12,145.78	7,888.97	122.75	124.06	-90.00	-770.10	-4,650.14	1,169.51	923.03	246.49	4.745		
12,200.00	7,889.00	12,245.78	7,888.97	125.36	126.67	-90.00	-769.67	-4,750.14	1,169.52	917.80	251.72	4.646		
12,300.00	7,889.00	12,345.78	7,888.97	127.98	129.29	-90.00	-769.24	-4,850.14	1,169.52	912.56	256.96	4.551		
12,400.00	7,888.99	12,445.79	7,888.97	130.60	131.90	-90.00	-768.80	-4,950.14	1,169.52	907.32	262.20	4.460		
12,500.00	7,888.99	12,545.79	7,888.97	133.23	134.52	-90.00	-768.36	-5,050.14	1,169.52	902.07	267.46	4.373		
12,600.00	7,888.99	12,645.79	7,888.97	135.85	137.15	-90.00	-767.93	-5,150.14	1,169.52	896.81	272.71	4.289		
12,700.00	7,888.99	12,745.79	7,888.97	138.48	139.77	-90.00	-767.49	-5,250.14	1,169.52	891.55	277.97	4.207		
12,800.00	7,888.99	12,845.79	7,888.97	141.12	142.40	-90.00	-767.06	-5,350.15	1,169.53	886.29	283.24	4.129		
12,900.00	7,888.99	12,945.80	7,888.97	143.75	145.03	-90.00	-766.62	-5,450.15	1,169.53	881.02	288.50	4.054		
13,000.00	7,888.99	13,045.80	7,888.97	146.38	147.66	-90.00	-766.19	-5,550.15	1,169.53	875.75	293.78	3.981		
13,100.00	7,888.99	13,145.80	7,888.97	149.02	150.29	-90.00	-765.75	-5,650.15	1,169.53	870.47	299.05	3.911		
13,200.00	7,888.99	13,245.80	7,888.97	151.66	152.93	-90.00	-765.31	-5,750.15	1,169.53	865.19	304.33	3.843		
13,300.00	7,888.99	13,345.80	7,888.97	154.30	155.57	-90.00	-764.88	-5,850.15	1,169.53	859.91	309.62	3.777		
13,400.00	7,888.99	13,445.81	7,888.97	156.94	158.21	-90.00	-764.44	-5,950.15	1,169.53	854.62	314.91	3.714		
13,500.00	7,888.99	13,545.81	7,888.97	159.59	160.85	-90.00	-764.00	-6,050.15	1,169.53	849.33	320.20	3.653		
13,600.00	7,888.99	13,645.81	7,888.97	162.24	163.49	-90.00	-763.57	-6,150.15	1,169.53	844.04	325.49	3.593		
13,700.00	7,888.99	13,745.81	7,888.97	164.88	166.14	-90.00	-763.13	-6,250.15	1,169.53	838.74	330.78	3.536		
13,800.00	7,888.99	13,845.81	7,888.97	167.53	168.78	-90.00	-762.69	-6,350.16	1,169.53	833.44	336.08	3.480		
13,900.00	7,888.99	13,945.82	7,888.97	170.18	171.43	-90.00	-762.25	-6,450.16	1,169.53	828.14	341.38	3.426		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,888.99	14,045.82	7,888.97	172.83	174.08	-90.00	-761.82	-6,550.16	1,169.53	822.84	346.69	3.373		
14,100.00	7,888.99	14,145.82	7,888.97	175.48	176.73	-90.00	-761.38	-6,650.16	1,169.52	817.53	351.99	3.323		
14,200.00	7,888.99	14,245.82	7,888.97	178.14	179.38	-90.00	-760.94	-6,750.16	1,169.52	812.22	357.30	3.273		
14,300.00	7,888.99	14,345.82	7,888.97	180.79	182.03	-90.00	-760.50	-6,850.16	1,169.52	806.91	362.61	3.225		
14,400.00	7,888.99	14,445.83	7,888.97	183.45	184.69	-90.00	-760.06	-6,950.16	1,169.52	801.60	367.92	3.179		
14,500.00	7,888.99	14,545.83	7,888.97	186.10	187.34	-90.00	-759.63	-7,050.16	1,169.52	796.28	373.24	3.133		
14,600.00	7,888.99	14,645.83	7,888.97	188.76	190.00	-90.00	-759.19	-7,150.16	1,169.52	790.96	378.55	3.089		
14,700.00	7,888.99	14,745.83	7,888.97	191.42	192.65	-90.00	-758.75	-7,250.17	1,169.51	785.64	383.87	3.047		
14,800.00	7,888.99	14,845.83	7,888.97	194.08	195.31	-90.00	-758.31	-7,350.17	1,169.51	780.32	389.19	3.005		
14,900.00	7,888.99	14,945.84	7,888.97	196.74	197.97	-90.00	-757.87	-7,450.17	1,169.51	775.00	394.51	2.964		
15,000.00	7,888.99	15,045.84	7,888.97	199.40	200.63	-90.00	-757.43	-7,550.17	1,169.51	769.67	399.83	2.925		
15,100.00	7,888.99	15,145.84	7,888.97	202.06	203.29	-90.00	-756.99	-7,650.17	1,169.50	764.35	405.16	2.887		
15,200.00	7,888.99	15,245.84	7,888.97	204.72	205.95	-90.00	-756.55	-7,750.17	1,169.50	759.02	410.48	2.849		
15,300.00	7,888.99	15,345.84	7,888.98	207.39	208.61	-90.00	-756.11	-7,850.17	1,169.50	753.69	415.81	2.813		
15,400.00	7,888.99	15,445.85	7,888.98	210.05	211.27	-90.00	-755.67	-7,950.17	1,169.49	748.36	421.14	2.777		
15,500.00	7,888.99	15,545.85	7,888.98	212.71	213.93	-90.00	-755.23	-8,050.17	1,169.49	743.02	426.47	2.742		
15,600.00	7,888.99	15,645.85	7,888.98	215.38	216.60	-90.00	-754.79	-8,150.17	1,169.49	737.69	431.80	2.708		
15,700.00	7,888.99	15,745.85	7,888.98	218.05	219.26	-90.00	-754.35	-8,250.18	1,169.48	732.35	437.13	2.675		
15,800.00	7,888.99	15,845.85	7,888.98	220.71	221.92	-90.00	-753.91	-8,350.18	1,169.48	727.02	442.46	2.643		
15,900.00	7,888.99	15,945.86	7,888.98	223.38	224.59	-90.00	-753.47	-8,450.18	1,169.47	721.68	447.80	2.612		
16,000.00	7,888.99	16,045.86	7,888.98	226.05	227.26	-90.00	-753.03	-8,550.18	1,169.47	716.34	453.13	2.581		
16,100.00	7,888.99	16,145.86	7,888.98	228.71	229.92	-90.00	-752.59	-8,650.18	1,169.47	711.00	458.47	2.551		
16,200.00	7,888.99	16,245.86	7,888.98	231.38	232.59	-90.00	-752.14	-8,750.18	1,169.46	705.65	463.81	2.521		
16,300.00	7,888.99	16,345.86	7,888.98	234.05	235.26	-90.00	-751.70	-8,850.18	1,169.46	700.31	469.14	2.493		
16,400.00	7,888.99	16,445.87	7,888.98	236.72	237.92	-90.00	-751.26	-8,950.18	1,169.45	694.97	474.48	2.465		
16,500.00	7,888.99	16,545.87	7,888.98	239.39	240.59	-90.00	-750.82	-9,050.18	1,169.45	689.62	479.82	2.437		
16,600.00	7,888.99	16,645.87	7,888.99	242.06	243.26	-90.00	-750.38	-9,150.18	1,169.44	684.28	485.17	2.410		
16,700.00	7,888.99	16,745.87	7,888.99	244.73	245.93	-90.00	-749.93	-9,250.19	1,169.44	678.93	490.51	2.384		
16,800.00	7,888.99	16,845.87	7,888.99	247.40	248.60	-90.00	-749.49	-9,350.19	1,169.43	673.58	495.85	2.358		
16,900.00	7,888.99	16,945.88	7,888.99	250.07	251.27	-90.00	-749.05	-9,450.19	1,169.42	668.23	501.19	2.333		
17,000.00	7,888.99	17,045.88	7,888.99	252.75	253.94	-90.00	-748.61	-9,550.19	1,169.42	662.88	506.54	2.309		
17,100.00	7,888.99	17,145.88	7,888.99	255.42	256.61	-90.00	-748.16	-9,650.19	1,169.41	657.53	511.88	2.285		
17,200.00	7,888.99	17,245.88	7,888.99	258.09	259.28	-90.00	-747.72	-9,750.19	1,169.40	652.18	517.23	2.261		
17,300.00	7,888.99	17,345.88	7,888.99	260.76	261.96	-90.00	-747.28	-9,850.19	1,169.40	646.82	522.57	2.238		
17,400.00	7,888.99	17,445.89	7,888.99	263.44	264.63	-90.00	-746.83	-9,950.19	1,169.39	641.47	527.92	2.215		
17,500.00	7,888.99	17,545.89	7,888.99	266.11	267.30	-90.00	-746.39	-10,050.19	1,169.38	636.12	533.27	2.193		
17,600.00	7,888.99	17,645.89	7,889.00	268.78	269.97	-90.00	-745.95	-10,150.19	1,169.38	630.76	538.62	2.171		
17,700.00	7,888.99	17,745.89	7,889.00	271.46	272.65	-90.00	-745.50	-10,250.20	1,169.37	625.40	543.97	2.150		
17,800.00	7,888.99	17,845.89	7,889.00	274.13	275.32	-90.00	-745.06	-10,350.20	1,169.36	620.05	549.32	2.129		
17,900.00	7,888.99	17,945.90	7,889.00	276.81	277.99	-90.00	-744.61	-10,450.20	1,169.36	614.69	554.67	2.108		
17,917.28	7,889.00	17,963.18	7,889.00	277.27	278.46	-90.00	-744.54	-10,467.48	1,169.30	613.71	555.59	2.105 SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	126.56	126.56					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	126.56	126.56	126.29	0.27	470.746		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	126.56	126.56	125.58	0.99	128.385		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	126.56	126.56	124.86	1.70	74.328		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	126.56	126.56	124.14	2.42	52.305		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	126.56	126.56	123.43	3.14	40.350		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	126.56	126.56	122.71	3.85	32.843		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	126.56	126.56	121.99	4.57	27.691		
800.00	800.00	801.17	801.15	2.64	2.63	90.78	-1.72	126.08	126.09	120.82	5.27	23.910		
900.00	900.00	902.10	901.93	3.00	2.97	93.15	-6.86	124.62	124.83	118.86	5.97	20.923		
1,000.00	1,000.00	1,002.52	1,001.96	3.36	3.31	97.16	-15.36	122.22	123.20	116.53	6.67	18.473		
1,055.35	1,055.35	1,057.75	1,056.83	3.56	3.51	128.44	-21.47	120.49	122.73	115.67	7.06	17.373	CC, ES	
1,100.00	1,099.98	1,102.01	1,100.69	3.72	3.67	131.58	-27.10	118.90	123.10	115.72	7.38	16.673		
1,200.00	1,199.84	1,199.88	1,197.35	4.08	4.04	140.16	-41.86	114.72	127.43	119.32	8.11	15.712		
1,202.60	1,202.43	1,202.41	1,199.83	4.09	4.05	140.40	-42.28	114.61	127.63	119.50	8.13	15.700		
1,300.00	1,299.59	1,295.99	1,291.70	4.44	4.42	149.64	-59.44	109.75	136.98	128.14	8.84	15.491		
1,400.00	1,399.34	1,407.45	1,386.19	4.80	4.90	158.34	-78.59	104.34	150.61	140.97	9.64	15.626		
1,500.00	1,499.09	1,489.12	1,480.68	5.16	5.26	165.52	-97.73	98.93	167.20	156.90	10.30	16.230		
1,600.00	1,598.84	1,585.68	1,575.17	5.53	5.69	171.38	-116.87	93.51	185.95	174.93	11.02	16.871		
1,700.00	1,698.59	1,682.24	1,669.66	5.89	6.13	176.15	-136.02	88.10	206.29	194.55	11.74	17.574		
1,800.00	1,798.34	1,778.80	1,764.15	6.26	6.58	-179.93	-155.16	82.69	227.77	215.32	12.45	18.291		
1,900.00	1,898.09	1,875.36	1,858.64	6.63	7.04	-176.69	-174.31	77.27	250.12	236.95	13.17	18.995		
2,000.00	1,997.84	1,971.92	1,953.13	7.00	7.49	-173.98	-193.45	71.86	273.11	259.23	13.88	19.673		
2,100.00	2,097.59	2,068.48	2,047.62	7.37	7.95	-171.68	-212.60	66.44	296.60	282.00	14.60	20.318		
2,200.00	2,197.34	2,165.04	2,142.11	7.74	8.42	-169.73	-231.74	61.03	320.48	305.17	15.31	20.927		
2,300.00	2,297.09	2,261.61	2,236.60	8.11	8.88	-168.04	-250.89	55.62	344.66	328.63	16.03	21.499		
2,400.00	2,396.84	2,358.17	2,331.09	8.48	9.35	-166.57	-270.03	50.20	369.10	352.35	16.75	22.035		
2,500.00	2,496.59	2,454.73	2,425.58	8.85	9.82	-165.29	-289.17	44.79	393.73	376.26	17.47	22.537		
2,600.00	2,596.34	2,551.29	2,520.07	9.22	10.29	-164.15	-308.32	39.38	418.53	400.33	18.19	23.007		
2,700.00	2,696.09	2,647.85	2,614.56	9.59	10.77	-163.15	-327.46	33.96	443.46	424.55	18.91	23.448		
2,800.00	2,795.84	2,744.41	2,709.05	9.97	11.24	-162.25	-346.61	28.55	468.51	448.88	19.64	23.861		
2,900.00	2,895.59	2,840.97	2,803.53	10.34	11.72	-161.44	-365.75	23.14	493.66	473.30	20.36	24.248		
3,000.00	2,995.34	2,937.53	2,898.02	10.71	12.19	-160.70	-384.90	17.72	518.89	497.81	21.08	24.612		
3,100.00	3,095.09	3,034.10	2,992.51	11.08	12.67	-160.04	-404.04	12.31	544.20	522.39	21.81	24.955		
3,200.00	3,194.84	3,130.66	3,087.00	11.46	13.15	-159.44	-423.19	6.89	569.56	547.03	22.53	25.277		
3,300.00	3,294.59	3,227.22	3,181.49	11.83	13.63	-158.88	-442.33	1.48	594.98	571.73	23.26	25.581		
3,400.00	3,394.34	3,323.78	3,275.98	12.20	14.11	-158.37	-461.48	-3.93	620.45	596.47	23.98	25.869		
3,500.00	3,494.09	3,420.34	3,370.47	12.58	14.59	-157.91	-480.62	-9.35	645.97	621.25	24.71	26.140		
3,600.00	3,593.84	3,516.90	3,464.96	12.95	15.07	-157.47	-499.76	-14.76	671.51	646.08	25.44	26.397		
3,700.00	3,693.59	3,613.46	3,559.45	13.32	15.55	-157.07	-518.91	-20.17	697.10	670.93	26.17	26.640		
3,800.00	3,793.34	3,710.02	3,653.94	13.70	16.03	-156.70	-538.05	-25.59	722.71	695.81	26.90	26.871		
3,900.00	3,893.09	3,806.59	3,748.43	14.07	16.51	-156.35	-557.20	-31.00	748.35	720.72	27.62	27.090		
4,000.00	3,992.84	3,903.15	3,842.92	14.44	16.99	-156.03	-576.34	-36.41	774.01	745.66	28.35	27.299		
4,100.00	4,092.59	4,000.29	3,937.41	14.82	17.47	-155.72	-595.49	-41.83	799.69	770.61	29.08	27.495		
4,200.00	4,192.34	4,103.73	4,031.90	15.19	17.99	-155.44	-614.63	-47.24	825.40	795.56	29.84	27.659		
4,300.00	4,292.09	4,192.83	4,126.39	15.57	18.44	-155.17	-633.78	-52.66	851.12	820.58	30.54	27.867		
4,400.00	4,391.84	4,289.39	4,220.88	15.94	18.92	-154.92	-652.92	-58.07	876.86	845.59	31.27	28.040		
4,500.00	4,491.59	4,385.95	4,315.37	16.31	19.40	-154.68	-672.07	-63.48	902.61	870.61	32.00	28.204		
4,600.00	4,591.34	4,482.52	4,409.86	16.69	19.88	-154.46	-691.21	-68.90	928.38	895.64	32.73	28.362		
4,700.00	4,691.09	4,579.08	4,504.35	17.06	20.37	-154.25	-710.35	-74.31	954.16	920.69	33.46	28.513		
4,800.00	4,790.84	4,675.64	4,598.83	17.44	20.85	-154.05	-729.50	-79.72	979.95	945.75	34.20	28.657		
4,900.00	4,890.59	4,772.20	4,693.32	17.81	21.33	-153.86	-748.64	-85.14	1,005.75	970.82	34.93	28.796		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,990.34	4,868.76	4,787.81	18.19	21.82	-153.67	-767.79	-90.55	1,031.56	995.90	35.66	28.929		
5,100.00	5,090.09	4,965.32	4,882.30	18.56	22.30	-153.50	-786.93	-95.97	1,057.38	1,020.99	36.39	29.056		
5,200.00	5,189.84	5,061.88	4,976.79	18.93	22.79	-153.34	-806.08	-101.38	1,083.21	1,046.09	37.12	29.179		
5,300.00	5,289.59	5,158.44	5,071.28	19.31	23.27	-153.18	-825.22	-106.79	1,109.05	1,071.19	37.86	29.297		
5,400.00	5,389.34	5,255.01	5,165.77	19.68	23.75	-153.03	-844.37	-112.21	1,134.89	1,096.30	38.59	29.411		
5,500.00	5,489.09	5,351.57	5,260.26	20.06	24.24	-152.89	-863.51	-117.62	1,160.74	1,121.42	39.32	29.520		
5,600.00	5,588.84	5,448.13	5,354.75	20.43	24.72	-152.75	-882.65	-123.03	1,186.60	1,146.55	40.05	29.626		
5,700.00	5,688.59	5,544.69	5,449.24	20.81	25.21	-152.62	-901.80	-128.45	1,212.46	1,171.68	40.79	29.727		
5,800.00	5,788.34	5,641.25	5,543.73	21.18	25.69	-152.50	-920.94	-133.86	1,238.33	1,196.81	41.52	29.825		
5,900.00	5,888.09	5,737.81	5,638.22	21.56	26.18	-152.38	-940.09	-139.27	1,264.21	1,221.96	42.25	29.920		
6,000.00	5,987.84	5,834.37	5,732.71	21.93	26.66	-152.26	-959.23	-144.69	1,290.09	1,247.10	42.99	30.012		
6,100.00	6,087.59	5,930.93	5,827.20	22.30	27.14	-152.15	-978.38	-150.10	1,315.97	1,272.25	43.72	30.100		
6,200.00	6,187.34	6,027.50	5,921.69	22.68	27.63	-152.04	-997.52	-155.52	1,341.86	1,297.41	44.45	30.186		
6,300.00	6,287.09	6,124.06	6,016.18	23.05	28.11	-151.94	-1,016.67	-160.93	1,367.75	1,322.57	45.19	30.268		
6,400.00	6,386.84	6,220.62	6,110.67	23.43	28.60	-151.84	-1,035.81	-166.34	1,393.65	1,347.73	45.92	30.348		
6,500.00	6,486.59	6,317.18	6,205.16	23.80	29.08	-151.75	-1,054.96	-171.76	1,419.55	1,372.89	46.66	30.426		
6,600.00	6,586.34	6,413.74	6,299.65	24.18	29.57	-151.66	-1,074.10	-177.17	1,445.46	1,398.06	47.39	30.501		
6,700.00	6,686.09	6,510.30	6,394.13	24.55	30.06	-151.57	-1,093.24	-182.58	1,471.36	1,423.24	48.13	30.574		
6,800.00	6,785.84	6,606.86	6,488.62	24.93	30.54	-151.48	-1,112.39	-188.00	1,497.27	1,448.41	48.86	30.644		
6,900.00	6,885.59	6,726.37	6,605.64	25.30	31.13	-151.39	-1,135.75	-194.60	1,523.02	1,473.26	49.76	30.606		
7,000.00	6,985.34	6,928.34	6,805.09	25.68	32.04	-151.33	-1,166.07	-203.18	1,544.18	1,493.05	51.13	30.201		
7,098.48	7,083.57	7,132.20	7,008.16	26.04	32.79	-151.41	-1,182.87	-207.93	1,558.41	1,506.13	52.27	29.813		
7,100.00	7,085.09	7,135.38	7,011.34	26.05	32.80	-151.41	-1,183.03	-207.97	1,558.57	1,506.28	52.29	29.807		
7,200.00	7,184.95	7,309.05	7,184.95	26.42	33.30	-151.61	-1,186.35	-208.92	1,564.79	1,511.65	53.14	29.446		
7,299.99	7,284.91	7,408.13	7,283.49	26.77	33.58	-151.32	-1,186.31	-217.97	1,566.38	1,512.56	53.82	29.104		
7,301.08	7,286.00	7,409.19	7,284.53	26.77	33.59	-179.45	-1,186.31	-218.16	1,566.38	1,512.55	53.83	29.100		
7,331.08	7,316.00	7,437.99	7,312.73	26.88	33.68	-179.24	-1,186.29	-224.02	1,566.43	1,512.39	54.03	28.991		
7,350.00	7,334.92	7,455.91	7,330.11	26.94	33.73	-89.34	-1,186.27	-228.38	1,566.47	1,512.31	54.16	28.923		
7,400.00	7,384.76	7,502.66	7,374.73	27.12	33.89	-88.94	-1,186.21	-242.30	1,566.65	1,512.13	54.51	28.740		
7,450.00	7,434.07	7,548.63	7,417.36	27.30	34.05	-88.55	-1,186.13	-259.48	1,566.89	1,512.01	54.88	28.550		
7,500.00	7,482.49	7,593.89	7,457.84	27.49	34.21	-88.17	-1,186.04	-279.67	1,567.20	1,511.93	55.27	28.354		
7,550.00	7,529.64	7,638.48	7,496.05	27.69	34.37	-87.80	-1,185.94	-302.64	1,567.56	1,511.88	55.68	28.151		
7,600.00	7,575.16	7,682.48	7,531.89	27.90	34.54	-87.46	-1,185.83	-328.14	1,567.96	1,511.84	56.12	27.940		
7,650.00	7,618.71	7,725.94	7,565.27	28.11	34.71	-87.13	-1,185.71	-355.96	1,568.40	1,511.82	56.58	27.719		
7,700.00	7,659.96	7,768.90	7,596.10	28.34	34.89	-86.81	-1,185.58	-385.87	1,568.85	1,511.77	57.08	27.485		
7,750.00	7,698.59	7,811.43	7,624.33	28.59	35.08	-86.53	-1,185.44	-417.66	1,569.31	1,511.70	57.62	27.237		
7,800.00	7,734.31	7,853.57	7,649.90	28.86	35.27	-86.26	-1,185.29	-451.15	1,569.77	1,511.57	58.20	26.970		
7,850.00	7,766.84	7,895.37	7,672.76	29.16	35.47	-86.02	-1,185.14	-486.13	1,570.21	1,511.36	58.85	26.683		
7,900.00	7,795.95	7,936.87	7,692.87	29.49	35.69	-85.80	-1,184.98	-522.41	1,570.62	1,511.07	59.56	26.371		
7,950.00	7,821.40	7,978.11	7,710.21	29.86	35.92	-85.62	-1,184.82	-559.82	1,571.00	1,510.66	60.34	26.037		
8,000.00	7,843.01	8,019.14	7,724.75	30.28	36.17	-85.46	-1,184.65	-598.18	1,571.33	1,510.14	61.19	25.680		
8,050.00	7,860.61	8,059.99	7,736.45	30.74	36.45	-85.33	-1,184.48	-637.31	1,571.61	1,509.50	62.11	25.303		
8,100.00	7,874.06	8,100.70	7,745.32	31.25	36.74	-85.23	-1,184.31	-677.04	1,571.83	1,508.72	63.11	24.906		
8,150.00	7,883.26	8,141.32	7,751.33	31.80	37.06	-85.16	-1,184.13	-717.19	1,571.98	1,507.80	64.18	24.492		
8,200.00	7,888.15	8,181.87	7,754.49	32.39	37.41	-85.12	-1,183.96	-757.61	1,572.07	1,506.75	65.32	24.069		
8,231.14	7,889.00	8,207.33	7,755.00	32.77	37.64	-85.11	-1,183.85	-783.07	1,572.08	1,506.04	66.05	23.803		
8,300.00	7,889.00	8,276.19	7,755.00	33.66	38.32	-85.11	-1,183.55	-851.93	1,572.09	1,504.18	67.91	23.151		
8,400.00	7,889.00	8,376.19	7,755.00	35.10	39.46	-85.11	-1,183.11	-951.92	1,572.09	1,501.24	70.85	22.189		
8,500.00	7,889.00	8,476.19	7,755.00	36.68	40.77	-85.11	-1,182.67	-1,051.92	1,572.09	1,498.02	74.06	21.226		
8,600.00	7,889.00	8,576.19	7,755.00	38.38	42.23	-85.11	-1,182.24	-1,151.92	1,572.09	1,494.57	77.52	20.281		
8,700.00	7,889.00	8,676.19	7,755.00	40.19	43.83	-85.11	-1,181.80	-1,251.92	1,572.09	1,490.91	81.18	19.366		
8,800.00	7,889.00	8,776.19	7,755.00	42.09	45.56	-85.11	-1,181.36	-1,351.92	1,572.09	1,487.07	85.02	18.491		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,889.00	8,876.19	7,755.00	44.08	47.39	-85.11	-1,180.93	-1,451.92	1,572.09	1,483.07	89.02	17.660		
9,000.00	7,889.00	8,976.19	7,755.00	46.14	49.31	-85.11	-1,180.49	-1,551.92	1,572.09	1,478.93	93.15	16.876		
9,100.00	7,889.00	9,076.19	7,755.00	48.26	51.31	-85.11	-1,180.06	-1,651.92	1,572.09	1,474.68	97.41	16.139		
9,200.00	7,889.00	9,176.19	7,755.00	50.44	53.38	-85.11	-1,179.62	-1,751.92	1,572.09	1,470.32	101.77	15.447		
9,300.00	7,889.00	9,276.19	7,755.00	52.66	55.52	-85.11	-1,179.18	-1,851.92	1,572.09	1,465.86	106.23	14.799		
9,400.00	7,889.00	9,376.19	7,754.99	54.93	57.70	-85.11	-1,178.75	-1,951.92	1,572.09	1,461.33	110.76	14.194		
9,500.00	7,889.00	9,476.19	7,754.99	57.23	59.93	-85.11	-1,178.31	-2,051.91	1,572.09	1,456.72	115.37	13.627		
9,600.00	7,889.00	9,576.19	7,754.99	59.56	62.19	-85.11	-1,177.87	-2,151.91	1,572.09	1,452.06	120.03	13.097		
9,700.00	7,889.00	9,676.19	7,754.99	61.93	64.50	-85.11	-1,177.44	-2,251.91	1,572.09	1,447.33	124.76	12.601		
9,800.00	7,889.00	9,776.19	7,754.99	64.31	66.81	-85.11	-1,177.00	-2,351.91	1,572.09	1,442.56	129.53	12.137		
9,900.00	7,889.00	9,876.19	7,754.99	66.73	69.19	-85.11	-1,176.56	-2,451.91	1,572.09	1,437.74	134.35	11.701		
10,000.00	7,889.00	9,976.19	7,754.99	69.16	71.58	-85.11	-1,176.13	-2,551.91	1,572.09	1,432.88	139.21	11.293		
10,100.00	7,889.00	10,076.19	7,754.99	71.61	73.99	-85.11	-1,175.69	-2,651.91	1,572.09	1,427.99	144.11	10.909		
10,200.00	7,889.00	10,176.19	7,754.99	74.08	76.42	-85.11	-1,175.26	-2,751.91	1,572.09	1,423.06	149.03	10.549		
10,300.00	7,889.00	10,276.19	7,754.99	76.56	78.86	-85.11	-1,174.82	-2,851.91	1,572.09	1,418.10	153.99	10.209		
10,400.00	7,889.00	10,376.19	7,754.99	79.06	81.33	-85.11	-1,174.38	-2,951.91	1,572.09	1,413.12	158.97	9.889		
10,500.00	7,889.00	10,476.19	7,754.99	81.56	83.81	-85.11	-1,173.95	-3,051.90	1,572.09	1,408.12	163.98	9.587		
10,600.00	7,889.00	10,576.19	7,754.99	84.08	86.30	-85.11	-1,173.51	-3,151.90	1,572.10	1,403.09	169.01	9.302		
10,700.00	7,889.00	10,676.19	7,754.99	86.61	88.80	-85.11	-1,173.07	-3,251.90	1,572.10	1,398.04	174.06	9.032		
10,800.00	7,889.00	10,776.19	7,754.99	89.15	91.32	-85.11	-1,172.64	-3,351.90	1,572.10	1,392.97	179.12	8.777		
10,900.00	7,889.00	10,876.19	7,754.99	91.70	93.84	-85.11	-1,172.20	-3,451.90	1,572.10	1,387.89	184.21	8.534		
11,000.00	7,889.00	10,976.19	7,754.99	94.26	96.38	-85.11	-1,171.77	-3,551.90	1,572.10	1,382.79	189.31	8.304		
11,100.00	7,889.00	11,076.19	7,754.99	96.82	98.92	-85.11	-1,171.33	-3,651.90	1,572.10	1,377.68	194.42	8.086		
11,200.00	7,889.00	11,176.19	7,754.99	99.39	101.47	-85.11	-1,170.89	-3,751.90	1,572.10	1,372.55	199.55	7.878		
11,300.00	7,889.00	11,276.19	7,754.99	101.97	104.03	-85.11	-1,170.46	-3,851.90	1,572.10	1,367.41	204.69	7.681		
11,400.00	7,889.00	11,376.19	7,754.98	104.55	106.60	-85.11	-1,170.02	-3,951.90	1,572.10	1,362.26	209.84	7.492		
11,500.00	7,889.00	11,476.19	7,754.98	107.13	109.17	-85.11	-1,169.58	-4,051.90	1,572.10	1,357.10	215.00	7.312		
11,600.00	7,889.00	11,576.19	7,754.98	109.73	111.74	-85.11	-1,169.15	-4,151.89	1,572.10	1,351.93	220.17	7.140		
11,700.00	7,889.00	11,676.19	7,754.98	112.32	114.33	-85.11	-1,168.71	-4,251.89	1,572.10	1,346.75	225.35	6.976		
11,800.00	7,889.00	11,776.19	7,754.98	114.92	116.92	-85.11	-1,168.27	-4,351.89	1,572.10	1,341.57	230.54	6.819		
11,900.00	7,889.00	11,876.19	7,754.98	117.53	119.51	-85.11	-1,167.84	-4,451.89	1,572.10	1,336.37	235.73	6.669		
12,000.00	7,889.00	11,976.19	7,754.98	120.14	122.11	-85.11	-1,167.40	-4,551.89	1,572.10	1,331.17	240.93	6.525		
12,100.00	7,889.00	12,076.19	7,754.98	122.75	124.71	-85.11	-1,166.97	-4,651.89	1,572.10	1,325.96	246.14	6.387		
12,200.00	7,889.00	12,176.19	7,754.98	125.36	127.31	-85.11	-1,166.53	-4,751.89	1,572.10	1,320.74	251.36	6.254		
12,300.00	7,889.00	12,276.19	7,754.98	127.98	129.92	-85.11	-1,166.09	-4,851.89	1,572.10	1,315.52	256.58	6.127		
12,400.00	7,888.99	12,376.19	7,754.98	130.60	132.54	-85.11	-1,165.66	-4,951.89	1,572.10	1,310.29	261.81	6.005		
12,500.00	7,888.99	12,476.19	7,754.98	133.23	135.15	-85.11	-1,165.22	-5,051.89	1,572.10	1,305.06	267.05	5.887		
12,600.00	7,888.99	12,576.19	7,754.98	135.85	137.77	-85.11	-1,164.78	-5,151.88	1,572.10	1,299.82	272.28	5.774		
12,700.00	7,888.99	12,676.19	7,754.98	138.48	140.39	-85.11	-1,164.35	-5,251.88	1,572.10	1,294.58	277.53	5.665		
12,800.00	7,888.99	12,776.19	7,754.98	141.12	143.02	-85.11	-1,163.91	-5,351.88	1,572.11	1,289.33	282.78	5.560		
12,900.00	7,888.99	12,876.19	7,754.98	143.75	145.64	-85.11	-1,163.48	-5,451.88	1,572.11	1,284.08	288.03	5.458		
13,000.00	7,888.99	12,976.19	7,754.98	146.38	148.27	-85.11	-1,163.04	-5,551.88	1,572.11	1,278.82	293.29	5.360		
13,100.00	7,888.99	13,076.19	7,754.98	149.02	150.90	-85.11	-1,162.60	-5,651.88	1,572.11	1,273.56	298.55	5.266		
13,200.00	7,888.99	13,176.19	7,754.98	151.66	153.54	-85.11	-1,162.17	-5,751.88	1,572.11	1,268.30	303.81	5.175		
13,300.00	7,888.99	13,276.19	7,754.98	154.30	156.17	-85.11	-1,161.73	-5,851.88	1,572.11	1,263.03	309.08	5.086		
13,400.00	7,888.99	13,376.19	7,754.98	156.94	158.81	-85.11	-1,161.29	-5,951.88	1,572.11	1,257.76	314.35	5.001		
13,500.00	7,888.99	13,476.19	7,754.97	159.59	161.45	-85.11	-1,160.86	-6,051.88	1,572.11	1,252.49	319.62	4.919		
13,600.00	7,888.99	13,576.19	7,754.97	162.24	164.09	-85.11	-1,160.42	-6,151.88	1,572.11	1,247.21	324.90	4.839		
13,700.00	7,888.99	13,676.19	7,754.97	164.88	166.74	-85.11	-1,159.98	-6,251.87	1,572.11	1,241.93	330.18	4.761		
13,800.00	7,888.99	13,776.19	7,754.97	167.53	169.38	-85.11	-1,159.55	-6,351.87	1,572.11	1,236.65	335.46	4.686		
13,900.00	7,888.99	13,876.19	7,754.97	170.18	172.03	-85.11	-1,159.11	-6,451.87	1,572.11	1,231.37	340.74	4.614		
14,000.00	7,888.99	13,976.19	7,754.97	172.83	174.67	-85.11	-1,158.68	-6,551.87	1,572.11	1,226.08	346.03	4.543		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-5
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5610.00usft
Reference Site:	Sec 4-T4S-R65W	MD Reference:	KB 25' @ 5610.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	JAMASO 4-65 5-6-5	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

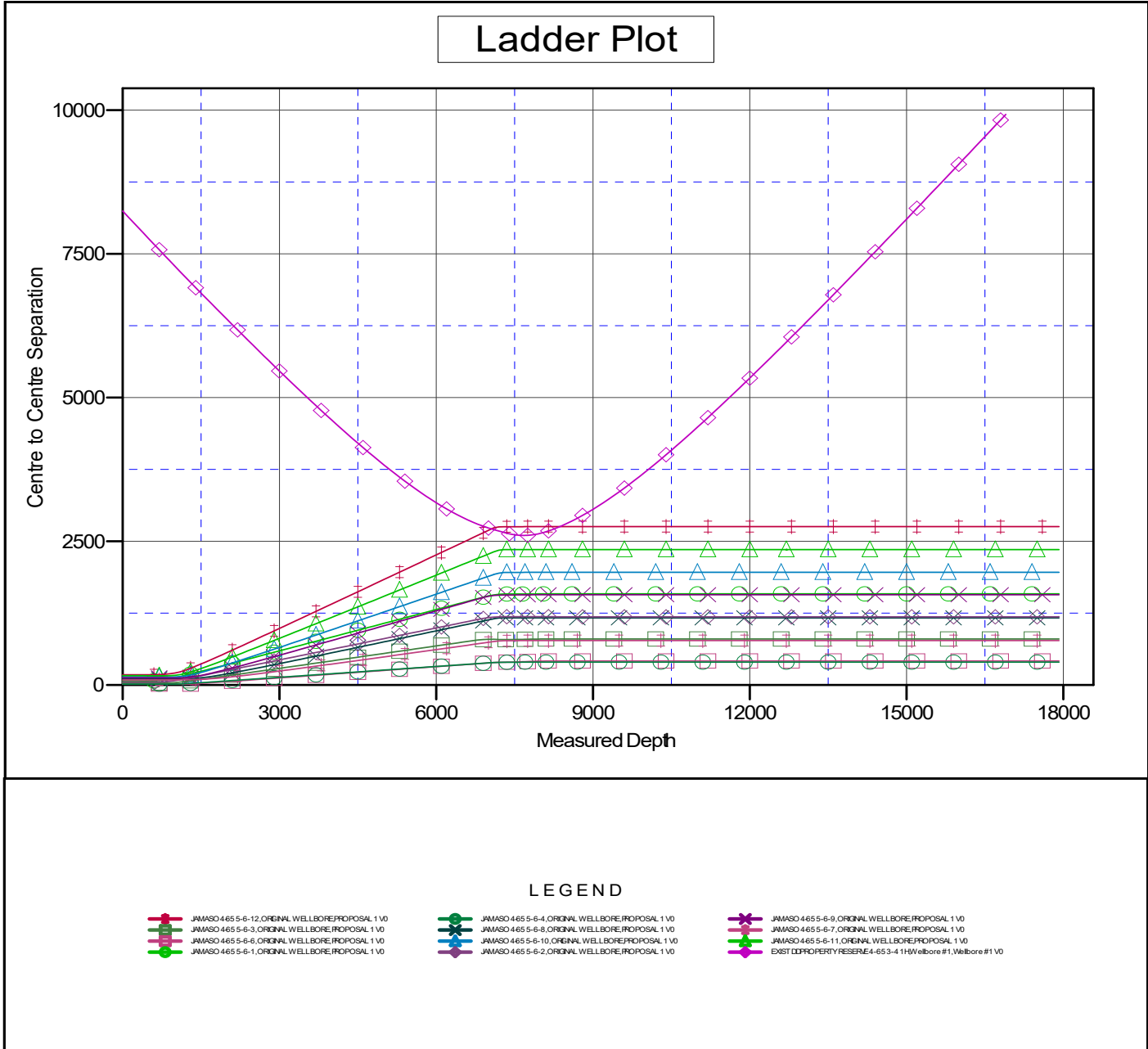
Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,888.99	14,076.19	7,754.97	175.48	177.32	-85.11	-1,158.24	-6,651.87	1,572.11	1,220.79	351.32	4.475		
14,200.00	7,888.99	14,176.19	7,754.97	178.14	179.97	-85.11	-1,157.80	-6,751.87	1,572.11	1,215.50	356.61	4.408		
14,300.00	7,888.99	14,276.19	7,754.97	180.79	182.63	-85.11	-1,157.37	-6,851.87	1,572.11	1,210.21	361.91	4.344		
14,400.00	7,888.99	14,376.19	7,754.97	183.45	185.28	-85.11	-1,156.93	-6,951.87	1,572.11	1,204.91	367.20	4.281		
14,500.00	7,888.99	14,476.19	7,754.97	186.10	187.93	-85.11	-1,156.49	-7,051.87	1,572.11	1,199.61	372.50	4.220		
14,600.00	7,888.99	14,576.19	7,754.97	188.76	190.59	-85.11	-1,156.06	-7,151.87	1,572.11	1,194.31	377.80	4.161		
14,700.00	7,888.99	14,676.19	7,754.97	191.42	193.24	-85.11	-1,155.62	-7,251.87	1,572.11	1,189.01	383.10	4.104		
14,800.00	7,888.99	14,776.19	7,754.97	194.08	195.90	-85.11	-1,155.19	-7,351.86	1,572.11	1,183.71	388.40	4.048		
14,900.00	7,888.99	14,876.19	7,754.97	196.74	198.56	-85.11	-1,154.75	-7,451.86	1,572.11	1,178.40	393.71	3.993		
15,000.00	7,888.99	14,976.19	7,754.97	199.40	201.22	-85.11	-1,154.31	-7,551.86	1,572.11	1,173.10	399.02	3.940		
15,100.00	7,888.99	15,076.19	7,754.97	202.06	203.88	-85.11	-1,153.88	-7,651.86	1,572.12	1,167.79	404.32	3.888		
15,200.00	7,888.99	15,176.19	7,754.97	204.72	206.54	-85.11	-1,153.44	-7,751.86	1,572.12	1,162.48	409.63	3.838		
15,300.00	7,888.99	15,276.19	7,754.97	207.39	209.20	-85.11	-1,153.00	-7,851.86	1,572.12	1,157.17	414.94	3.789		
15,400.00	7,888.99	15,376.19	7,754.97	210.05	211.86	-85.11	-1,152.57	-7,951.86	1,572.12	1,151.86	420.26	3.741		
15,500.00	7,888.99	15,476.19	7,754.97	212.71	214.53	-85.11	-1,152.13	-8,051.86	1,572.12	1,146.55	425.57	3.694		
15,600.00	7,888.99	15,576.19	7,754.96	215.38	217.19	-85.11	-1,151.69	-8,151.86	1,572.12	1,141.23	430.88	3.649		
15,700.00	7,888.99	15,676.19	7,754.96	218.05	219.86	-85.11	-1,151.26	-8,251.86	1,572.12	1,135.92	436.20	3.604		
15,800.00	7,888.99	15,776.19	7,754.96	220.71	222.52	-85.11	-1,150.82	-8,351.85	1,572.12	1,130.60	441.52	3.561		
15,900.00	7,888.99	15,876.19	7,754.96	223.38	225.19	-85.11	-1,150.39	-8,451.85	1,572.12	1,125.28	446.84	3.518		
16,000.00	7,888.99	15,976.19	7,754.96	226.05	227.86	-85.11	-1,149.95	-8,551.85	1,572.12	1,119.96	452.16	3.477		
16,100.00	7,888.99	16,076.19	7,754.96	228.71	230.52	-85.11	-1,149.51	-8,651.85	1,572.12	1,114.64	457.48	3.437		
16,200.00	7,888.99	16,176.19	7,754.96	231.38	233.19	-85.11	-1,149.08	-8,751.85	1,572.12	1,109.32	462.80	3.397		
16,300.00	7,888.99	16,276.19	7,754.96	234.05	235.86	-85.11	-1,148.64	-8,851.85	1,572.12	1,104.00	468.12	3.358		
16,400.00	7,888.99	16,376.19	7,754.96	236.72	238.53	-85.11	-1,148.20	-8,951.85	1,572.12	1,098.68	473.44	3.321		
16,500.00	7,888.99	16,476.19	7,754.96	239.39	241.20	-85.11	-1,147.77	-9,051.85	1,572.12	1,093.35	478.77	3.284		
16,600.00	7,888.99	16,576.19	7,754.96	242.06	243.87	-85.11	-1,147.33	-9,151.85	1,572.12	1,088.03	484.09	3.248		
16,700.00	7,888.99	16,676.19	7,754.96	244.73	246.54	-85.11	-1,146.89	-9,251.85	1,572.12	1,082.70	489.42	3.212		
16,800.00	7,888.99	16,776.19	7,754.96	247.40	249.21	-85.11	-1,146.46	-9,351.85	1,572.12	1,077.38	494.75	3.178		
16,900.00	7,888.99	16,876.19	7,754.96	250.07	251.88	-85.11	-1,146.02	-9,451.84	1,572.12	1,072.05	500.07	3.144		
17,000.00	7,888.99	16,976.19	7,754.96	252.75	254.55	-85.11	-1,145.59	-9,551.84	1,572.12	1,066.72	505.40	3.111		
17,100.00	7,888.99	17,076.19	7,754.96	255.42	257.23	-85.11	-1,145.15	-9,651.84	1,572.12	1,061.39	510.73	3.078		
17,200.00	7,888.99	17,176.19	7,754.96	258.09	259.90	-85.11	-1,144.71	-9,751.84	1,572.12	1,056.06	516.06	3.046		
17,300.00	7,888.99	17,276.19	7,754.96	260.76	262.57	-85.11	-1,144.28	-9,851.84	1,572.13	1,050.73	521.39	3.015		
17,400.00	7,888.99	17,376.19	7,754.96	263.44	265.25	-85.11	-1,143.84	-9,951.84	1,572.13	1,045.40	526.72	2.985		
17,500.00	7,888.99	17,476.19	7,754.96	266.11	267.92	-85.11	-1,143.40	-10,051.84	1,572.13	1,040.07	532.05	2.955		
17,600.00	7,888.99	17,576.19	7,754.95	268.78	270.60	-85.11	-1,142.97	-10,151.84	1,572.13	1,034.74	537.39	2.926		
17,700.00	7,888.99	17,676.19	7,754.95	271.46	273.27	-85.11	-1,142.53	-10,251.84	1,572.13	1,029.41	542.72	2.897		
17,800.00	7,888.99	17,776.19	7,754.95	274.13	275.95	-85.11	-1,142.10	-10,351.84	1,572.13	1,024.07	548.05	2.869		
17,900.00	7,888.99	17,876.26	7,754.99	276.81	278.62	-85.11	-1,141.66	-10,451.91	1,572.12	1,018.73	553.39	2.841		
17,917.28	7,889.00	17,893.54	7,755.00	277.27	279.09	-85.11	-1,141.58	-10,469.19	1,572.07	1,017.76	554.31	2.836 SF		

Anticollision Report

Company: AXIS EXPLORATION	Local Co-ordinate Reference: Well JAMASO 4-65 5-6-5
Project: ARAPAHOE COUNTY	TVD Reference: KB 25' @ 5610.00usft
Reference Site: Sec 4-T4S-R65W	MD Reference: KB 25' @ 5610.00usft
Site Error: 0.00 usft	North Reference: True
Reference Well: JAMASO 4-65 5-6-5	Survey Calculation Method: Minimum Curvature
Well Error: 0.00 usft	Output errors are at: 2.00 sigma
Reference Wellbore: ORIGINAL WELLBORE	Database: EDT_32Bit_ODBC
Reference Design: PROPOSAL 1	Offset TVD Reference: Offset Datum

Reference Depths are relative to KB 25' @ 5610.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: JAMASO 4-65 5-6-5
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.53°



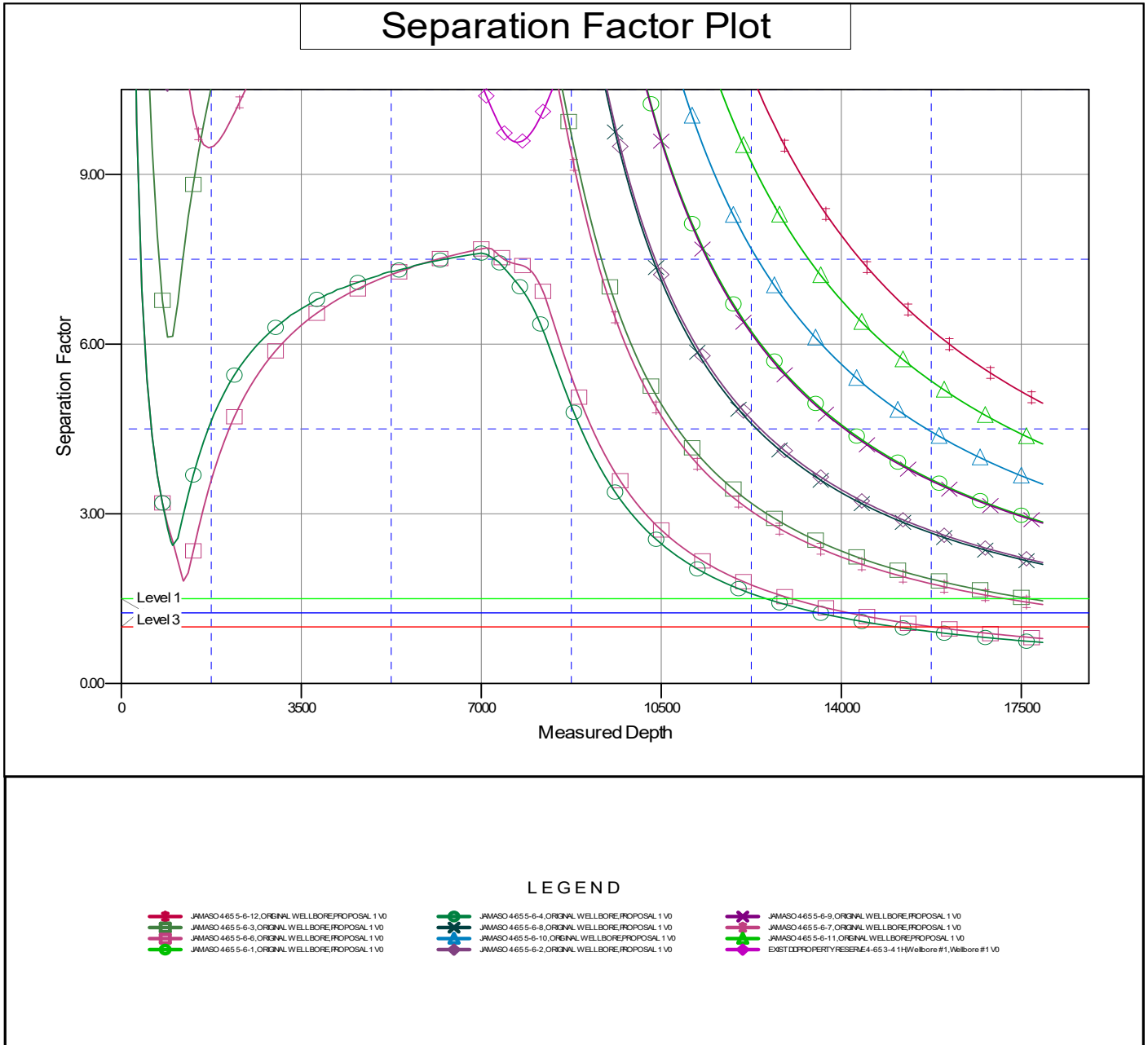
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company: AXIS EXPLORATION	Local Co-ordinate Reference: Well JAMASO 4-65 5-6-5
Project: ARAPAHOE COUNTY	TVD Reference: KB 25' @ 5610.00usft
Reference Site: Sec 4-T4S-R65W	MD Reference: KB 25' @ 5610.00usft
Site Error: 0.00 usft	North Reference: True
Reference Well: JAMASO 4-65 5-6-5	Survey Calculation Method: Minimum Curvature
Well Error: 0.00 usft	Output errors are at 2.00 sigma
Reference Wellbore ORIGINAL WELLBORE	Database: EDT_32Bit_ODBC
Reference Design: PROPOSAL 1	Offset TVD Reference: Offset Datum

Reference Depths are relative to KB 25' @ 5610.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: JAMASO 4-65 5-6-5
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.53°



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