

AXIS EXPLORATION

ARAPAHOE COUNTY

Sec 4-T4S-R65W

JAMASO 4-65 5-6-8

ORIGINAL WELLBORE

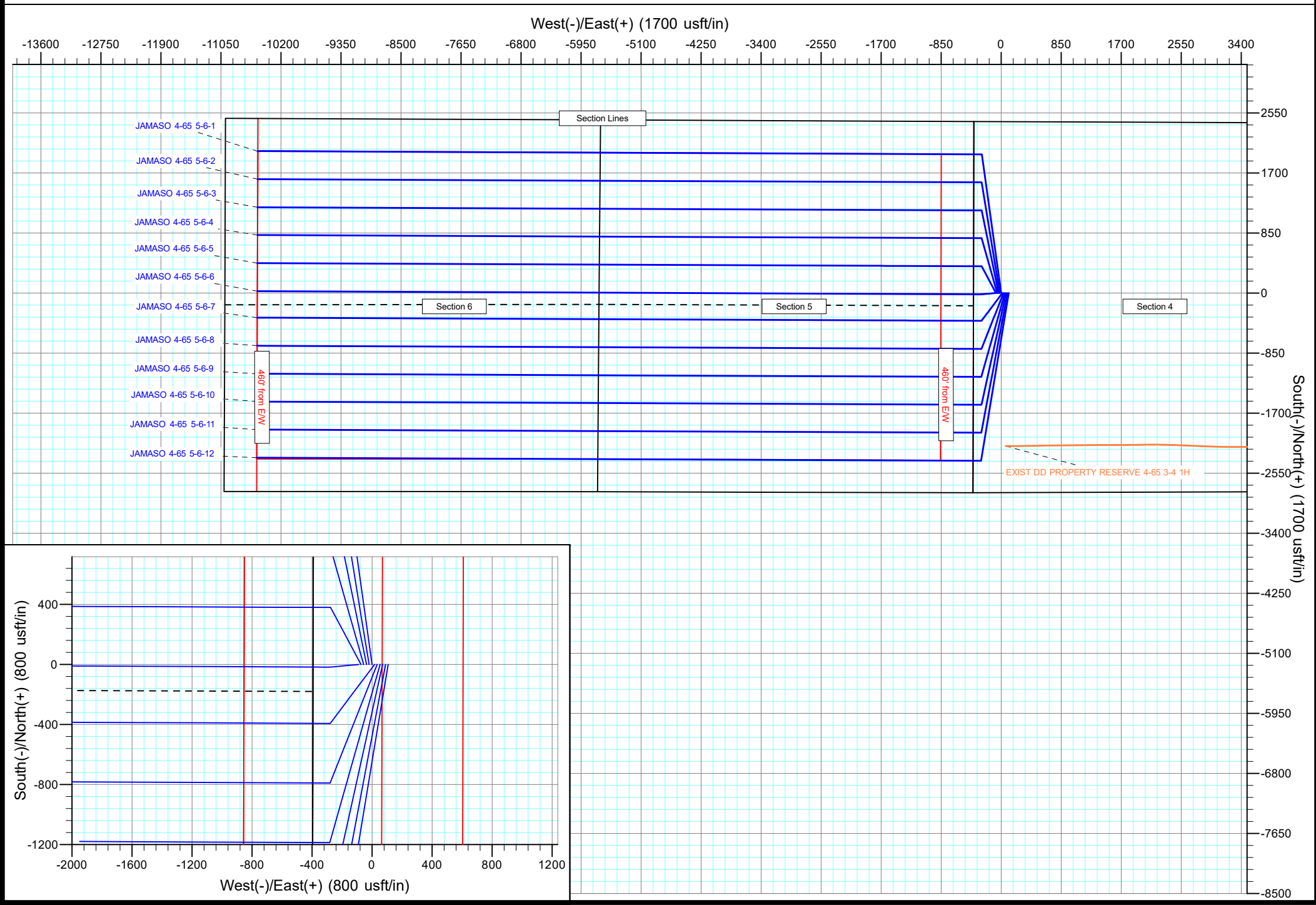
PROPOSAL 1

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 5-6-8
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 5-6-8	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	17,961.29	PROPOSAL 1 (ORIGINAL WELLBORE)	MWD	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	7,721.79	16,985.00	1,479.97	1,218.97	5.671	CC, ES
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,750.00	16,985.00	1,480.49	1,219.36	5.670	SF
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	200.00	200.00	33.75	32.76	34.236	CC
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	300.00	299.80	34.03	32.33	19.998	ES
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	17,961.29	18,239.20	2,754.28	2,197.67	4.948	SF
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	712.59	712.79	35.70	31.08	7.728	CC, ES
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	17,961.29	18,158.21	791.84	235.62	1.424	Level 3, SF
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	543.93	544.23	55.28	51.86	16.164	CC
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	600.00	599.99	55.53	51.71	14.533	ES
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	17,961.29	18,212.39	1,187.52	629.89	2.130	SF
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	360.92	361.29	72.15	70.01	33.688	CC
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	400.00	400.15	72.25	69.82	29.746	ES
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	17,961.29	18,210.73	1,590.23	1,033.66	2.857	SF
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	400.00	400.00	53.44	51.02	22.084	CC
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	500.00	499.66	53.75	50.61	17.145	ES
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	17,961.29	18,088.94	2,356.83	1,800.53	4.237	SF
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	600.00	600.00	70.31	66.46	18.246	CC
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	700.00	699.47	70.68	66.11	15.474	ES
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	17,961.29	17,883.76	1,964.34	1,409.26	3.539	SF
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	800.00	800.00	90.00	84.71	17.021	CC
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	900.00	899.11	90.49	84.49	15.081	ES
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	17,961.29	17,998.66	1,567.07	1,011.56	2.821	SF
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	1,113.77	1,111.36	105.39	97.92	14.098	CC, ES
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	17,961.29	17,918.91	1,169.30	613.71	2.105	SF
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	1,275.47	1,271.57	117.84	109.23	13.698	CC
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	1,300.00	1,295.08	117.95	109.18	13.450	ES
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	17,961.29	17,768.35	783.79	236.18	1.431	Level 3, SF
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	1,088.76	1,088.62	15.69	8.37	2.145	CC
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	17,961.29	17,967.76	399.82	-153.30	0.723	Level 1, ES, SF
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	875.12	875.23	18.94	13.16	3.273	CC
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	17,961.29	17,891.74	419.05	-112.61	0.788	Level 1, ES, SF

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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 - EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbore #1 - Wellbore #1			Offset Site Error:		0.00 usft
Survey Program: 83-MWD														Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance										
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			
0.00	0.00	16,985.00	8,060.83	0.00	249.75	179.16	-2,164.51	31.66	8,245.08							
100.00	100.00	16,985.00	8,060.83	0.13	249.75	179.16	-2,164.51	31.66	8,148.63	8,048.76	99.87	81.589				
200.00	200.00	16,985.00	8,060.83	0.49	249.75	179.16	-2,164.51	31.66	8,052.27	7,951.88	100.39	80.213				
300.00	300.00	16,985.00	8,060.83	0.85	249.75	179.16	-2,164.51	31.66	7,955.99	7,855.07	100.92	78.832				
400.00	400.00	16,985.00	8,060.83	1.21	249.75	179.16	-2,164.51	31.66	7,859.81	7,758.33	101.48	77.448				
500.00	500.00	16,985.00	8,060.83	1.57	249.75	179.16	-2,164.51	31.66	7,763.73	7,661.66	102.07	76.061				
600.00	600.00	16,985.00	8,060.83	1.93	249.75	179.16	-2,164.51	31.66	7,667.75	7,565.06	102.69	74.672				
700.00	700.00	16,985.00	8,060.83	2.29	249.75	179.16	-2,164.51	31.66	7,571.87	7,468.54	103.33	73.281				
800.00	800.00	16,985.00	8,060.83	2.64	249.75	179.16	-2,164.51	31.66	7,476.10	7,372.10	103.99	71.890				
900.00	900.00	16,985.00	8,060.83	3.00	249.75	179.16	-2,164.51	31.66	7,380.44	7,275.75	104.69	70.499				
1,000.00	999.98	16,985.00	8,060.83	3.34	249.75	-25.24	-2,164.51	31.66	7,284.43	7,179.05	105.38	69.123				
1,100.00	1,099.84	16,985.00	8,060.83	3.68	249.75	-28.71	-2,164.51	31.66	7,187.69	7,081.65	106.04	67.785				
1,200.00	1,199.45	16,985.00	8,060.83	4.01	249.75	-33.13	-2,164.51	31.66	7,090.29	6,983.66	106.64	66.491				
1,300.00	1,298.70	16,985.00	8,060.83	4.36	249.75	-38.86	-2,164.51	31.66	6,992.33	6,885.16	107.17	65.242				
1,303.95	1,302.61	16,985.00	8,060.83	4.38	249.75	-39.12	-2,164.51	31.66	6,988.46	6,881.26	107.20	65.194				
1,400.00	1,397.71	16,985.00	8,060.83	4.73	249.75	-39.12	-2,164.51	31.66	6,894.13	6,786.45	107.69	64.021				
1,500.00	1,496.72	16,985.00	8,060.83	5.11	249.75	-39.12	-2,164.51	31.66	6,795.98	6,687.77	108.21	62.804				
1,600.00	1,595.72	16,985.00	8,060.83	5.49	249.75	-39.12	-2,164.51	31.66	6,697.89	6,589.14	108.75	61.588				
1,700.00	1,694.73	16,985.00	8,060.83	5.89	249.75	-39.12	-2,164.51	31.66	6,599.86	6,490.54	109.32	60.375				
1,800.00	1,793.74	16,985.00	8,060.83	6.28	249.75	-39.12	-2,164.51	31.66	6,501.88	6,391.98	109.90	59.163				
1,900.00	1,892.75	16,985.00	8,060.83	6.69	249.75	-39.12	-2,164.51	31.66	6,403.97	6,293.46	110.50	57.954				
2,000.00	1,991.75	16,985.00	8,060.83	7.09	249.75	-39.12	-2,164.51	31.66	6,306.12	6,194.99	111.13	56.747				
2,100.00	2,090.76	16,985.00	8,060.83	7.50	249.75	-39.12	-2,164.51	31.66	6,208.34	6,096.56	111.77	55.544				
2,200.00	2,189.77	16,985.00	8,060.83	7.91	249.75	-39.12	-2,164.51	31.66	6,110.63	5,998.19	112.44	54.343				
2,300.00	2,288.78	16,985.00	8,060.83	8.33	249.75	-39.12	-2,164.51	31.66	6,013.00	5,899.86	113.14	53.147				
2,400.00	2,387.78	16,985.00	8,060.83	8.74	249.75	-39.12	-2,164.51	31.66	5,915.45	5,801.59	113.86	51.954				
2,500.00	2,486.79	16,985.00	8,060.83	9.16	249.75	-39.12	-2,164.51	31.66	5,817.98	5,703.37	114.61	50.765				
2,600.00	2,585.80	16,985.00	8,060.83	9.58	249.75	-39.12	-2,164.51	31.66	5,720.59	5,605.22	115.38	49.581				
2,700.00	2,684.81	16,985.00	8,060.83	10.00	249.75	-39.12	-2,164.51	31.66	5,623.30	5,507.12	116.18	48.402				
2,800.00	2,783.82	16,985.00	8,060.83	10.42	249.75	-39.12	-2,164.51	31.66	5,526.11	5,409.10	117.01	47.228				
2,900.00	2,882.82	16,985.00	8,060.83	10.84	249.75	-39.12	-2,164.51	31.66	5,429.02	5,311.15	117.87	46.058				
3,000.00	2,981.83	16,985.00	8,060.83	11.27	249.75	-39.12	-2,164.51	31.66	5,332.03	5,213.27	118.77	44.895				
3,100.00	3,080.84	16,985.00	8,060.83	11.69	249.75	-39.12	-2,164.51	31.66	5,235.16	5,115.47	119.70	43.737				
3,200.00	3,179.85	16,985.00	8,060.83	12.11	249.75	-39.12	-2,164.51	31.66	5,138.41	5,017.75	120.66	42.586				
3,300.00	3,278.85	16,985.00	8,060.83	12.54	249.75	-39.12	-2,164.51	31.66	5,041.79	4,920.12	121.66	41.440				
3,400.00	3,377.86	16,985.00	8,060.83	12.96	249.75	-39.12	-2,164.51	31.66	4,945.30	4,822.59	122.71	40.302				
3,500.00	3,476.87	16,985.00	8,060.83	13.39	249.75	-39.12	-2,164.51	31.66	4,848.95	4,725.16	123.79	39.170				
3,600.00	3,575.88	16,985.00	8,060.83	13.82	249.75	-39.12	-2,164.51	31.66	4,752.75	4,627.83	124.92	38.046				
3,700.00	3,674.88	16,985.00	8,060.83	14.24	249.75	-39.12	-2,164.51	31.66	4,656.71	4,530.62	126.10	36.930				
3,800.00	3,773.89	16,985.00	8,060.83	14.67	249.75	-39.12	-2,164.51	31.66	4,560.85	4,433.53	127.32	35.821				
3,900.00	3,872.90	16,985.00	8,060.83	15.10	249.75	-39.12	-2,164.51	31.66	4,465.16	4,336.56	128.60	34.721				
4,000.00	3,971.91	16,985.00	8,060.83	15.53	249.75	-39.12	-2,164.51	31.66	4,369.67	4,239.74	129.93	33.630				
4,100.00	4,070.91	16,985.00	8,060.83	15.96	249.75	-39.12	-2,164.51	31.66	4,274.38	4,143.06	131.33	32.548				
4,200.00	4,169.92	16,985.00	8,060.83	16.39	249.75	-39.12	-2,164.51	31.66	4,179.32	4,046.54	132.78	31.475				
4,300.00	4,268.93	16,985.00	8,060.83	16.81	249.75	-39.12	-2,164.51	31.66	4,084.49	3,950.19	134.30	30.412				
4,400.00	4,367.94	16,985.00	8,060.83	17.24	249.75	-39.12	-2,164.51	31.66	3,989.91	3,854.02	135.90	29.360				
4,500.00	4,466.94	16,985.00	8,060.83	17.67	249.75	-39.12	-2,164.51	31.66	3,895.61	3,758.04	137.56	28.319				
4,600.00	4,565.95	16,985.00	8,060.83	18.10	249.75	-39.12	-2,164.51	31.66	3,801.59	3,662.28	139.31	27.288				
4,700.00	4,664.96	16,985.00	8,060.83	18.53	249.75	-39.12	-2,164.51	31.66	3,707.89	3,566.74	141.14	26.270				
4,800.00	4,763.97	16,985.00	8,060.83	18.96	249.75	-39.12	-2,164.51	31.66	3,614.52	3,471.46	143.07	25.264				
4,900.00	4,862.97	16,985.00	8,060.83	19.39	249.75	-39.12	-2,164.51	31.66	3,521.52	3,376.43	145.09	24.271				
5,000.00	4,961.98	16,985.00	8,060.83	19.82	249.75	-39.12	-2,164.51	31.66	3,428.92	3,281.70	147.21	23.292				

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 5-6-8
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 5-6-8	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-MWDD													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	5,060.99	16,985.00	8,060.83	20.25	249.75	-39.12	-2,164.51	31.66	3,336.74	3,187.29	149.45	22.327		
5,200.00	5,160.00	16,985.00	8,060.83	20.68	249.75	-39.12	-2,164.51	31.66	3,245.02	3,093.22	151.80	21.377		
5,300.00	5,259.00	16,985.00	8,060.83	21.11	249.75	-39.12	-2,164.51	31.66	3,153.81	2,999.53	154.28	20.442		
5,400.00	5,358.01	16,985.00	8,060.83	21.55	249.75	-39.12	-2,164.51	31.66	3,063.14	2,906.25	156.90	19.523		
5,500.00	5,457.02	16,985.00	8,060.83	21.98	249.75	-39.12	-2,164.51	31.66	2,973.08	2,813.42	159.66	18.622		
5,600.00	5,556.03	16,985.00	8,060.83	22.41	249.75	-39.12	-2,164.51	31.66	2,883.67	2,721.10	162.57	17.738		
5,700.00	5,655.03	16,985.00	8,060.83	22.84	249.75	-39.12	-2,164.51	31.66	2,794.97	2,629.33	165.64	16.873		
5,800.00	5,754.04	16,985.00	8,060.83	23.27	249.75	-39.12	-2,164.51	31.66	2,707.07	2,538.18	168.89	16.028		
5,900.00	5,853.05	16,985.00	8,060.83	23.70	249.75	-39.12	-2,164.51	31.66	2,620.03	2,447.71	172.33	15.204		
6,000.00	5,952.06	16,985.00	8,060.83	24.13	249.75	-39.12	-2,164.51	31.66	2,533.95	2,358.00	175.96	14.401		
6,100.00	6,051.06	16,985.00	8,060.83	24.56	249.75	-39.12	-2,164.51	31.66	2,448.93	2,269.14	179.79	13.621		
6,200.00	6,150.07	16,985.00	8,060.83	25.00	249.75	-39.12	-2,164.51	31.66	2,365.08	2,181.23	183.85	12.864		
6,300.00	6,249.08	16,985.00	8,060.83	25.43	249.75	-39.12	-2,164.51	31.66	2,282.53	2,094.41	188.12	12.133		
6,400.00	6,348.09	16,985.00	8,060.83	25.86	249.75	-39.12	-2,164.51	31.66	2,201.43	2,008.80	192.63	11.428		
6,500.00	6,447.09	16,985.00	8,060.83	26.29	249.75	-39.12	-2,164.51	31.66	2,121.94	1,924.56	197.38	10.751		
6,600.00	6,546.10	16,985.00	8,060.83	26.72	249.75	-39.12	-2,164.51	31.66	2,044.26	1,841.89	202.36	10.102		
6,700.00	6,645.11	16,985.00	8,060.83	27.15	249.75	-39.12	-2,164.51	31.66	1,968.59	1,761.01	207.58	9.484		
6,800.00	6,744.12	16,985.00	8,060.83	27.59	249.75	-39.12	-2,164.51	31.66	1,895.17	1,682.16	213.01	8.897		
6,900.00	6,843.12	16,985.00	8,060.83	28.02	249.75	-39.12	-2,164.51	31.66	1,824.29	1,605.65	218.64	8.344		
6,940.67	6,883.39	16,985.00	8,060.83	28.19	249.75	-39.12	-2,164.51	31.66	1,796.25	1,575.27	220.98	8.129		
7,000.00	6,942.21	16,985.00	8,060.83	28.45	249.75	-38.45	-2,164.51	31.66	1,756.60	1,532.13	224.47	7.826		
7,100.00	7,041.68	16,985.00	8,060.83	28.85	249.75	-37.46	-2,164.51	31.66	1,694.08	1,463.51	230.58	7.347		
7,200.00	7,141.44	16,985.00	8,060.83	29.22	249.75	-36.64	-2,164.51	31.66	1,637.60	1,400.72	236.88	6.913		
7,300.00	7,241.39	16,985.00	8,060.83	29.56	249.75	-35.96	-2,164.51	31.66	1,587.87	1,344.63	243.24	6.528		
7,344.62	7,286.00	16,985.00	8,060.83	29.69	249.75	165.93	-2,164.51	31.66	1,568.05	1,322.01	246.04	6.373		
7,374.62	7,316.00	16,985.00	8,060.83	29.78	249.75	165.93	-2,164.51	31.66	1,555.47	1,307.58	247.89	6.275		
7,400.00	7,341.37	16,985.00	8,060.83	29.85	249.75	-105.38	-2,164.51	31.66	1,545.33	1,295.92	249.41	6.196		
7,450.00	7,391.17	16,985.00	8,060.83	30.02	249.75	-107.25	-2,164.51	31.66	1,527.24	1,275.01	252.22	6.055		
7,500.00	7,440.39	16,985.00	8,060.83	30.19	249.75	-108.79	-2,164.51	31.66	1,511.80	1,257.07	254.73	5.935		
7,550.00	7,488.66	16,985.00	8,060.83	30.37	249.75	-110.01	-2,164.51	31.66	1,499.24	1,242.36	256.89	5.836		
7,600.00	7,535.62	16,985.00	8,060.83	30.56	249.75	-110.92	-2,164.51	31.66	1,489.72	1,231.09	258.63	5.760		
7,650.00	7,580.90	16,985.00	8,060.83	30.76	249.75	-111.52	-2,164.51	31.66	1,483.37	1,223.43	259.94	5.707		
7,700.00	7,624.18	16,985.00	8,060.83	30.97	249.75	-111.81	-2,164.51	31.66	1,480.28	1,219.51	260.77	5.676		
7,721.79	7,642.32	16,985.00	8,060.83	31.06	249.75	-111.84	-2,164.51	31.66	1,479.97	1,218.97	260.99	5.671	CC, ES	
7,750.00	7,665.10	16,985.00	8,060.83	31.18	249.75	-111.79	-2,164.51	31.66	1,480.49	1,219.36	261.13	5.670	SF	
7,800.00	7,703.37	16,985.00	8,060.83	31.40	249.75	-111.46	-2,164.51	31.66	1,484.01	1,223.00	261.00	5.686		
7,850.00	7,738.70	16,985.00	8,060.83	31.64	249.75	-110.82	-2,164.51	31.66	1,490.77	1,230.35	260.41	5.725		
7,900.00	7,770.80	16,985.00	8,060.83	31.90	249.75	-109.87	-2,164.51	31.66	1,500.69	1,241.30	259.39	5.785		
7,950.00	7,799.45	16,985.00	8,060.83	32.18	249.75	-108.61	-2,164.51	31.66	1,513.63	1,255.66	257.96	5.868		
8,000.00	7,824.41	16,985.00	8,060.83	32.49	249.75	-107.02	-2,164.51	31.66	1,529.41	1,273.22	256.19	5.970		
8,050.00	7,845.51	16,985.00	8,060.83	32.83	249.75	-105.12	-2,164.51	31.66	1,547.84	1,293.73	254.11	6.091		
8,100.00	7,862.58	16,985.00	8,060.83	33.22	249.75	-102.90	-2,164.51	31.66	1,568.67	1,316.89	251.78	6.230		
8,150.00	7,875.49	16,985.00	8,060.83	33.65	249.75	-100.36	-2,164.51	31.66	1,591.66	1,342.42	249.25	6.386		
8,200.00	7,884.14	16,985.00	8,060.83	34.13	249.75	-97.52	-2,164.51	31.66	1,616.56	1,369.99	246.56	6.556		
8,250.00	7,888.47	16,985.00	8,060.83	34.65	249.75	-94.41	-2,164.51	31.66	1,643.07	1,399.30	243.77	6.740		
8,274.69	7,889.00	16,985.00	8,060.83	34.93	249.75	-92.78	-2,164.51	31.66	1,656.68	1,414.31	242.37	6.835		
8,300.00	7,889.00	16,985.00	8,060.83	35.22	249.75	-92.78	-2,164.51	31.66	1,670.92	1,430.00	240.92	6.936		
8,400.00	7,889.00	16,985.00	8,060.83	36.48	249.75	-92.78	-2,164.51	31.66	1,729.67	1,494.47	235.19	7.354		
8,500.00	7,889.00	16,985.00	8,060.83	37.92	249.75	-92.78	-2,164.51	31.66	1,792.07	1,562.57	229.50	7.809		
8,600.00	7,889.00	16,985.00	8,060.83	39.49	249.75	-92.78	-2,164.51	31.66	1,857.76	1,633.87	223.89	8.298		
8,700.00	7,888.99	16,985.00	8,060.83	41.20	249.75	-92.78	-2,164.51	31.66	1,926.41	1,707.99	218.42	8.820		
8,800.00	7,888.99	16,985.00	8,060.83	43.01	249.75	-92.78	-2,164.51	31.66	1,997.70	1,784.60	213.11	9.374		

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 5-6-8
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 5-6-8	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	7,888.99	16,985.00	8,060.83	44.92	249.75	-92.78	-2,164.51	31.66	2,071.37	1,863.39	207.99	9.959		
9,000.00	7,888.99	16,985.00	8,060.83	46.91	249.75	-92.78	-2,164.51	31.66	2,147.17	1,944.11	203.06	10.574		
9,100.00	7,888.99	16,985.00	8,060.83	48.97	249.75	-92.78	-2,164.51	31.66	2,224.89	2,026.54	198.35	11.217		
9,200.00	7,888.99	16,985.00	8,060.83	51.09	249.75	-92.78	-2,164.51	31.66	2,304.32	2,110.47	193.85	11.887		
9,300.00	7,888.99	16,985.00	8,060.83	53.27	249.75	-92.78	-2,164.51	31.66	2,385.30	2,195.74	189.56	12.583		
9,400.00	7,888.99	16,985.00	8,060.83	55.49	249.75	-92.78	-2,164.51	31.66	2,467.68	2,282.20	185.47	13.305		
9,500.00	7,888.99	16,985.00	8,060.83	57.75	249.75	-92.78	-2,164.51	31.66	2,551.31	2,369.72	181.59	14.050		
9,600.00	7,888.99	16,985.00	8,060.83	60.05	249.75	-92.78	-2,164.51	31.66	2,636.09	2,458.19	177.90	14.818		
9,700.00	7,888.98	16,985.00	8,060.83	62.38	249.75	-92.78	-2,164.51	31.66	2,721.90	2,547.50	174.40	15.607		
9,800.00	7,888.98	16,985.00	8,060.83	64.74	249.75	-92.78	-2,164.51	31.66	2,808.65	2,637.58	171.07	16.418		
9,900.00	7,888.98	16,985.00	8,060.83	67.13	249.75	-92.79	-2,164.51	31.66	2,896.25	2,728.34	167.91	17.249		
10,000.00	7,888.98	16,985.00	8,060.83	69.54	249.75	-92.79	-2,164.51	31.66	2,984.64	2,819.73	164.91	18.098		
10,100.00	7,888.98	16,985.00	8,060.83	71.96	249.75	-92.79	-2,164.51	31.66	3,073.73	2,911.67	162.06	18.966		
10,200.00	7,888.98	16,985.00	8,060.83	74.41	249.75	-92.79	-2,164.51	31.66	3,163.48	3,004.12	159.36	19.851		
10,300.00	7,888.98	16,985.00	8,060.83	76.87	249.75	-92.79	-2,164.51	31.66	3,253.83	3,097.04	156.79	20.753		
10,400.00	7,888.98	16,985.00	8,060.83	79.35	249.75	-92.79	-2,164.51	31.66	3,344.72	3,190.38	154.34	21.671		
10,500.00	7,888.98	16,985.00	8,060.83	81.84	249.75	-92.79	-2,164.51	31.66	3,436.12	3,284.10	152.02	22.603		
10,600.00	7,888.98	16,985.00	8,060.83	84.35	249.75	-92.79	-2,164.51	31.66	3,527.99	3,378.18	149.81	23.550		
10,700.00	7,888.98	16,985.00	8,060.83	86.86	249.75	-92.79	-2,164.51	31.66	3,620.29	3,472.59	147.70	24.511		
10,800.00	7,888.98	16,985.00	8,060.83	89.39	249.75	-92.79	-2,164.51	31.66	3,712.99	3,567.29	145.69	25.485		
10,900.00	7,888.98	16,985.00	8,060.83	91.93	249.75	-92.79	-2,164.51	31.66	3,806.05	3,662.27	143.78	26.471		
11,000.00	7,888.97	16,985.00	8,060.83	94.47	249.75	-92.79	-2,164.51	31.66	3,899.46	3,757.51	141.96	27.469		
11,100.00	7,888.97	16,985.00	8,060.83	97.02	249.75	-92.79	-2,164.51	31.66	3,993.19	3,852.98	140.22	28.478		
11,200.00	7,888.97	16,985.00	8,060.83	99.58	249.75	-92.79	-2,164.51	31.66	4,087.22	3,948.66	138.56	29.498		
11,300.00	7,888.97	16,985.00	8,060.83	102.15	249.75	-92.79	-2,164.51	31.66	4,181.53	4,044.56	136.97	30.529		
11,400.00	7,888.97	16,985.00	8,060.83	104.72	249.75	-92.79	-2,164.51	31.66	4,276.09	4,140.63	135.45	31.568		
11,500.00	7,888.97	16,985.00	8,060.83	107.30	249.75	-92.79	-2,164.51	31.66	4,370.89	4,236.89	134.00	32.617		
11,600.00	7,888.97	16,985.00	8,060.83	109.88	249.75	-92.79	-2,164.51	31.66	4,465.93	4,333.31	132.62	33.675		
11,700.00	7,888.97	16,985.00	8,060.83	112.47	249.75	-92.79	-2,164.51	31.66	4,561.17	4,429.88	131.29	34.741		
11,800.00	7,888.97	16,985.00	8,060.83	115.06	249.75	-92.79	-2,164.51	31.66	4,656.61	4,526.60	130.02	35.815		
11,900.00	7,888.97	16,985.00	8,060.83	117.66	249.75	-92.79	-2,164.51	31.66	4,752.25	4,623.45	128.80	36.896		
12,000.00	7,888.97	16,985.00	8,060.83	120.26	249.75	-92.79	-2,164.51	31.66	4,848.05	4,720.42	127.63	37.984		
12,100.00	7,888.97	16,985.00	8,060.83	122.87	249.75	-92.79	-2,164.51	31.66	4,944.03	4,817.51	126.51	39.079		
12,200.00	7,888.97	16,985.00	8,060.83	125.48	249.75	-92.79	-2,164.51	31.66	5,040.16	4,914.72	125.44	40.180		
12,300.00	7,888.97	16,985.00	8,060.83	128.09	249.75	-92.79	-2,164.51	31.66	5,136.44	5,012.03	124.41	41.287		
12,400.00	7,888.97	16,985.00	8,060.83	130.70	249.75	-92.79	-2,164.51	31.66	5,232.85	5,109.44	123.42	42.400		
12,500.00	7,888.97	16,985.00	8,060.83	133.32	249.75	-92.79	-2,164.51	31.66	5,329.40	5,206.94	122.47	43.517		
12,600.00	7,888.97	16,985.00	8,060.83	135.94	249.75	-92.79	-2,164.51	31.66	5,426.08	5,304.53	121.55	44.640		
12,700.00	7,888.97	16,985.00	8,060.83	138.57	249.75	-92.79	-2,164.51	31.66	5,522.87	5,402.20	120.67	45.767		
12,800.00	7,888.97	16,985.00	8,060.83	141.19	249.75	-92.79	-2,164.51	31.66	5,619.78	5,499.95	119.83	46.899		
12,900.00	7,888.97	16,985.00	8,060.83	143.82	249.75	-92.79	-2,164.51	31.66	5,716.79	5,597.78	119.01	48.035		
13,000.00	7,888.97	16,985.00	8,060.83	146.45	249.75	-92.79	-2,164.51	31.66	5,813.90	5,695.67	118.23	49.174		
13,100.00	7,888.97	16,985.00	8,060.83	149.09	249.75	-92.79	-2,164.51	31.66	5,911.11	5,793.64	117.48	50.317		
13,200.00	7,888.97	16,985.00	8,060.83	151.72	249.75	-92.79	-2,164.51	31.66	6,008.41	5,891.66	116.75	51.463		
13,300.00	7,888.97	16,985.00	8,060.83	154.36	249.75	-92.79	-2,164.51	31.66	6,105.80	5,989.75	116.05	52.613		
13,400.00	7,888.97	16,985.00	8,060.83	157.00	249.75	-92.79	-2,164.51	31.66	6,203.28	6,087.90	115.38	53.765		
13,500.00	7,888.97	16,985.00	8,060.83	159.64	249.75	-92.79	-2,164.51	31.66	6,300.83	6,186.10	114.73	54.919		
13,600.00	7,888.97	16,985.00	8,060.83	162.28	249.75	-92.79	-2,164.51	31.66	6,398.45	6,284.35	114.10	56.077		
13,700.00	7,888.97	16,985.00	8,060.83	164.93	249.75	-92.79	-2,164.51	31.66	6,496.15	6,382.65	113.50	57.236		
13,800.00	7,888.97	16,985.00	8,060.83	167.57	249.75	-92.79	-2,164.51	31.66	6,593.92	6,481.01	112.92	58.397		
13,900.00	7,888.97	16,985.00	8,060.83	170.22	249.75	-92.79	-2,164.51	31.66	6,691.75	6,579.40	112.35	59.560		
14,000.00	7,888.97	16,985.00	8,060.83	172.87	249.75	-92.79	-2,164.51	31.66	6,789.65	6,677.84	111.81	60.725		

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 5-6-8
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 5-6-8	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 - EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbore #1 - Wellbore #1												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	7,888.97	16,985.00	8,060.83	175.51	249.75	-92.79	-2,164.51	31.66	6,887.61	6,776.32	111.29	61.891	
14,200.00	7,888.97	16,985.00	8,060.83	178.16	249.75	-92.79	-2,164.51	31.66	6,985.62	6,874.85	110.78	63.059	
14,300.00	7,888.97	16,985.00	8,060.83	180.82	249.75	-92.79	-2,164.51	31.66	7,083.70	6,973.41	110.29	64.228	
14,400.00	7,888.97	16,985.00	8,060.83	183.47	249.75	-92.79	-2,164.51	31.66	7,181.82	7,072.00	109.82	65.397	
14,500.00	7,888.97	16,985.00	8,060.83	186.12	249.75	-92.79	-2,164.51	31.66	7,280.00	7,170.63	109.36	66.568	
14,600.00	7,888.97	16,985.00	8,060.83	188.78	249.75	-92.79	-2,164.51	31.66	7,378.22	7,269.30	108.92	67.739	
14,700.00	7,888.97	16,985.00	8,060.83	191.43	249.75	-92.79	-2,164.51	31.66	7,476.49	7,368.00	108.50	68.911	
14,800.00	7,888.97	16,985.00	8,060.83	194.09	249.75	-92.79	-2,164.51	31.66	7,574.81	7,466.72	108.08	70.083	
14,900.00	7,888.97	16,985.00	8,060.83	196.75	249.75	-92.79	-2,164.51	31.66	7,673.17	7,565.48	107.69	71.255	
15,000.00	7,888.97	16,985.00	8,060.83	199.41	249.75	-92.79	-2,164.51	31.66	7,771.57	7,664.27	107.30	72.428	
15,100.00	7,888.97	16,985.00	8,060.83	202.07	249.75	-92.79	-2,164.51	31.66	7,870.01	7,763.09	106.93	73.601	
15,200.00	7,888.97	16,985.00	8,060.83	204.73	249.75	-92.79	-2,164.51	31.66	7,968.49	7,861.93	106.57	74.774	
15,300.00	7,888.98	16,985.00	8,060.83	207.39	249.75	-92.79	-2,164.51	31.66	8,067.01	7,960.79	106.22	75.946	
15,400.00	7,888.98	16,985.00	8,060.83	210.05	249.75	-92.79	-2,164.51	31.66	8,165.57	8,059.69	105.88	77.119	
15,500.00	7,888.98	16,985.00	8,060.83	212.71	249.75	-92.79	-2,164.51	31.66	8,264.16	8,158.60	105.56	78.291	
15,600.00	7,888.98	16,985.00	8,060.83	215.37	249.75	-92.79	-2,164.51	31.66	8,362.78	8,257.54	105.24	79.463	
15,700.00	7,888.98	16,985.00	8,060.83	218.04	249.75	-92.79	-2,164.51	31.66	8,461.44	8,356.50	104.94	80.634	
15,800.00	7,888.98	16,985.00	8,060.83	220.70	249.75	-92.79	-2,164.51	31.66	8,560.12	8,455.48	104.64	81.804	
15,900.00	7,888.98	16,985.00	8,060.83	223.37	249.75	-92.79	-2,164.51	31.66	8,658.84	8,554.48	104.36	82.974	
16,000.00	7,888.98	16,985.00	8,060.83	226.03	249.75	-92.79	-2,164.51	31.66	8,757.59	8,653.51	104.08	84.143	
16,100.00	7,888.98	16,985.00	8,060.83	228.70	249.75	-92.79	-2,164.51	31.66	8,856.36	8,752.55	103.81	85.311	
16,200.00	7,888.98	16,985.00	8,060.83	231.37	249.75	-92.79	-2,164.51	31.66	8,955.16	8,851.61	103.55	86.479	
16,300.00	7,888.98	16,985.00	8,060.83	234.03	249.75	-92.79	-2,164.51	31.66	9,053.99	8,950.69	103.30	87.645	
16,400.00	7,888.98	16,985.00	8,060.83	236.70	249.75	-92.79	-2,164.51	31.66	9,152.84	9,049.78	103.06	88.810	
16,500.00	7,888.98	16,985.00	8,060.83	239.37	249.75	-92.79	-2,164.51	31.66	9,251.72	9,148.89	102.83	89.974	
16,600.00	7,888.98	16,985.00	8,060.83	242.04	249.75	-92.79	-2,164.51	31.66	9,350.62	9,248.02	102.60	91.137	
16,700.00	7,888.99	16,985.00	8,060.83	244.71	249.75	-92.79	-2,164.51	31.66	9,449.55	9,347.17	102.38	92.299	
16,800.00	7,888.99	16,985.00	8,060.83	247.38	249.75	-92.79	-2,164.51	31.66	9,548.49	9,446.33	102.17	93.459	
16,900.00	7,888.99	16,985.00	8,060.83	250.05	249.75	-92.79	-2,164.51	31.66	9,647.46	9,545.50	101.96	94.618	
17,000.00	7,888.99	16,985.00	8,060.83	252.72	249.75	-92.79	-2,164.51	31.66	9,746.45	9,644.69	101.76	95.776	
17,100.00	7,888.99	16,985.00	8,060.83	255.39	249.75	-92.79	-2,164.51	31.66	9,845.46	9,743.89	101.57	96.932	
17,200.00	7,888.99	16,985.00	8,060.83	258.06	249.75	-92.79	-2,164.51	31.66	9,944.49	9,843.11	101.39	98.086	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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	-33.75	33.75					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-33.75	33.75	33.48	0.27	125.532		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-33.75	33.75	32.76	0.99	34.236 CC		
300.00	300.00	299.80	299.78	0.85	0.85	-87.10	1.72	-33.99	34.03	32.33	1.70	19.998 ES		
400.00	400.00	399.35	399.19	1.21	1.22	-78.81	6.87	-34.71	35.39	32.97	2.42	14.619		
500.00	500.00	498.43	497.89	1.57	1.58	-66.80	15.38	-35.89	39.11	35.96	3.15	12.434		
600.00	600.00	596.79	595.53	1.93	1.96	-54.10	27.17	-37.53	46.55	42.68	3.87	12.029		
700.00	700.00	694.23	691.78	2.29	2.36	-43.24	42.12	-39.61	58.40	53.82	4.59	12.735		
800.00	800.00	790.52	786.35	2.64	2.78	-35.03	60.07	-42.11	74.62	69.33	5.29	14.108		
900.00	900.00	885.48	878.95	3.00	3.22	-29.10	80.84	-45.00	94.89	88.91	5.98	15.868		
1,000.00	999.98	978.51	968.97	3.34	3.69	133.73	104.13	-48.25	120.05	113.40	6.64	18.070		
1,100.00	1,099.84	1,068.83	1,055.57	3.68	4.17	137.58	129.49	-51.78	151.23	143.96	7.27	20.789		
1,200.00	1,199.45	1,160.84	1,143.27	4.01	4.69	140.84	157.06	-55.61	187.35	179.40	7.95	23.565		
1,300.00	1,298.70	1,252.22	1,230.37	4.36	5.21	143.44	184.45	-59.43	226.59	217.95	8.64	26.239		
1,303.95	1,302.61	1,255.80	1,233.78	4.38	5.23	143.54	185.53	-59.58	228.20	219.53	8.66	26.343		
1,400.00	1,397.71	1,342.89	1,316.78	4.73	5.74	145.88	211.64	-63.21	267.65	258.33	9.32	28.718		
1,500.00	1,496.72	1,433.55	1,403.19	5.11	6.27	147.69	238.82	-67.00	309.03	299.02	10.01	30.885		
1,600.00	1,595.72	1,524.21	1,489.59	5.49	6.81	149.07	266.00	-70.78	350.60	339.90	10.70	32.771		
1,700.00	1,694.73	1,614.87	1,576.00	5.89	7.34	150.16	293.18	-74.56	392.30	380.90	11.40	34.424		
1,800.00	1,793.74	1,705.53	1,662.41	6.28	7.89	151.04	320.37	-78.35	434.10	422.00	12.10	35.882		
1,900.00	1,892.75	1,803.81	1,748.82	6.69	8.47	151.77	347.55	-82.13	475.97	463.13	12.84	37.083		
2,000.00	1,991.75	1,886.86	1,835.23	7.09	8.97	152.37	374.73	-85.92	517.89	504.38	13.51	38.326		
2,100.00	2,090.76	1,977.52	1,921.63	7.50	9.52	152.89	401.91	-89.70	559.85	545.63	14.22	39.359		
2,200.00	2,189.77	2,068.18	2,008.04	7.91	10.07	153.34	429.10	-93.48	601.85	586.91	14.94	40.290		
2,300.00	2,288.78	2,158.84	2,094.45	8.33	10.62	153.73	456.28	-97.27	643.87	628.22	15.65	41.133		
2,400.00	2,387.78	2,249.50	2,180.86	8.74	11.16	154.07	483.46	-101.05	685.91	669.54	16.37	41.899		
2,500.00	2,486.79	2,340.16	2,267.27	9.16	11.71	154.37	510.64	-104.84	727.97	710.88	17.09	42.598		
2,600.00	2,585.80	2,430.83	2,353.67	9.58	12.26	154.64	537.83	-108.62	770.05	752.24	17.81	43.238		
2,700.00	2,684.81	2,521.49	2,440.08	10.00	12.82	154.88	565.01	-112.41	812.14	793.61	18.53	43.826		
2,800.00	2,783.82	2,612.15	2,526.49	10.42	13.37	155.09	592.19	-116.19	854.23	834.98	19.25	44.368		
2,900.00	2,882.82	2,702.81	2,612.90	10.84	13.92	155.29	619.37	-119.97	896.34	876.37	19.98	44.869		
3,000.00	2,981.83	2,806.53	2,699.30	11.27	14.55	155.47	646.56	-123.76	938.46	917.70	20.76	45.215		
3,100.00	3,080.84	2,884.13	2,785.71	11.69	15.02	155.63	673.74	-127.54	980.58	959.15	21.43	45.766		
3,200.00	3,179.85	2,974.80	2,872.12	12.11	15.57	155.78	700.92	-131.33	1,022.71	1,000.56	22.15	46.168		
3,300.00	3,278.85	3,065.46	2,958.53	12.54	16.13	155.92	728.10	-135.11	1,064.84	1,041.96	22.88	46.544		
3,400.00	3,377.86	3,156.12	3,044.94	12.96	16.68	156.05	755.28	-138.89	1,106.98	1,083.38	23.61	46.895		
3,500.00	3,476.87	3,246.78	3,131.34	13.39	17.23	156.17	782.47	-142.68	1,149.12	1,124.79	24.33	47.225		
3,600.00	3,575.88	3,337.44	3,217.75	13.82	17.79	156.28	809.65	-146.46	1,191.27	1,166.21	25.06	47.534		
3,700.00	3,674.88	3,428.10	3,304.16	14.24	18.34	156.38	836.83	-150.25	1,233.42	1,207.63	25.79	47.825		
3,800.00	3,773.89	3,518.76	3,390.57	14.67	18.89	156.48	864.01	-154.03	1,275.57	1,249.05	26.52	48.100		
3,900.00	3,872.90	3,609.43	3,476.98	15.10	19.45	156.57	891.20	-157.81	1,317.73	1,290.48	27.25	48.358		
4,000.00	3,971.91	3,700.09	3,563.38	15.53	20.00	156.65	918.38	-161.60	1,359.89	1,331.91	27.98	48.603		
4,100.00	4,070.91	3,809.25	3,649.79	15.96	20.67	156.73	945.56	-165.38	1,402.05	1,373.26	28.79	48.703		
4,200.00	4,169.92	3,881.41	3,736.20	16.39	21.11	156.80	972.74	-169.17	1,444.21	1,414.77	29.44	49.054		
4,300.00	4,268.93	3,972.07	3,822.61	16.81	21.66	156.87	999.93	-172.95	1,486.38	1,456.20	30.17	49.263		
4,400.00	4,367.94	4,062.73	3,909.01	17.24	22.22	156.94	1,027.11	-176.73	1,528.54	1,497.64	30.90	49.461		
4,500.00	4,466.94	4,153.40	3,995.42	17.67	22.77	157.00	1,054.29	-180.52	1,570.71	1,539.07	31.64	49.649		
4,600.00	4,565.95	4,244.06	4,081.83	18.10	23.33	157.06	1,081.47	-184.30	1,612.88	1,580.51	32.37	49.828		
4,700.00	4,664.96	4,334.72	4,168.24	18.53	23.88	157.12	1,108.65	-188.09	1,655.05	1,621.95	33.10	49.999		
4,800.00	4,763.97	4,425.38	4,254.65	18.96	24.44	157.17	1,135.84	-191.87	1,697.22	1,663.39	33.83	50.162		
4,900.00	4,862.97	4,516.04	4,341.05	19.39	24.99	157.22	1,163.02	-195.66	1,739.39	1,704.83	34.57	50.318		
5,000.00	4,961.98	4,606.70	4,427.46	19.82	25.55	157.27	1,190.20	-199.44	1,781.57	1,746.27	35.30	50.467		

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 5-6-8
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 5-6-8	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	5,060.99	4,697.37	4,513.87	20.25	26.10	157.32	1,217.38	-203.22	1,823.74	1,787.71	36.04	50.609		
5,200.00	5,160.00	4,788.03	4,600.28	20.68	26.66	157.36	1,244.57	-207.01	1,865.92	1,829.15	36.77	50.745		
5,300.00	5,259.00	4,878.69	4,686.69	21.11	27.21	157.40	1,271.75	-210.79	1,908.10	1,870.59	37.51	50.875		
5,400.00	5,358.01	4,969.35	4,773.09	21.55	27.77	157.45	1,298.93	-214.58	1,950.27	1,912.03	38.24	51.000		
5,500.00	5,457.02	5,060.01	4,859.50	21.98	28.32	157.48	1,326.11	-218.36	1,992.45	1,953.48	38.98	51.120		
5,600.00	5,556.03	5,150.67	4,945.91	22.41	28.88	157.52	1,353.30	-222.14	2,034.63	1,994.92	39.71	51.236		
5,700.00	5,655.03	5,241.33	5,032.32	22.84	29.43	157.56	1,380.48	-225.93	2,076.81	2,036.36	40.45	51.346		
5,800.00	5,754.04	5,332.00	5,118.73	23.27	29.99	157.59	1,407.66	-229.71	2,118.99	2,077.81	41.18	51.452		
5,900.00	5,853.05	5,422.66	5,205.13	23.70	30.54	157.62	1,434.84	-233.50	2,161.17	2,119.25	41.92	51.555		
6,000.00	5,952.06	5,513.32	5,291.54	24.13	31.10	157.66	1,462.03	-237.28	2,203.35	2,160.70	42.66	51.653		
6,100.00	6,051.06	5,603.98	5,377.95	24.56	31.65	157.69	1,489.21	-241.06	2,245.54	2,202.14	43.39	51.748		
6,200.00	6,150.07	5,705.36	5,464.36	25.00	32.27	157.72	1,516.39	-244.85	2,287.72	2,243.54	44.18	51.786		
6,300.00	6,249.08	5,785.30	5,550.76	25.43	32.76	157.74	1,543.57	-248.63	2,329.90	2,285.03	44.87	51.927		
6,400.00	6,348.09	5,875.97	5,637.17	25.86	33.32	157.77	1,570.75	-252.42	2,372.08	2,326.48	45.61	52.011		
6,500.00	6,447.09	5,966.63	5,723.58	26.29	33.87	157.80	1,597.94	-256.20	2,414.27	2,367.92	46.35	52.093		
6,600.00	6,546.10	6,057.29	5,809.99	26.72	34.43	157.82	1,625.12	-259.98	2,456.45	2,409.37	47.08	52.172		
6,700.00	6,645.11	6,147.95	5,896.40	27.15	34.98	157.85	1,652.30	-263.77	2,498.64	2,450.82	47.82	52.248		
6,800.00	6,744.12	6,238.61	5,982.80	27.59	35.54	157.87	1,679.48	-267.55	2,540.82	2,492.26	48.56	52.321		
6,900.00	6,843.12	6,329.27	6,069.21	28.02	36.09	157.89	1,706.67	-271.34	2,583.01	2,533.71	49.30	52.392		
6,940.67	6,883.39	6,366.15	6,104.35	28.19	36.32	157.90	1,717.72	-272.88	2,600.17	2,550.56	49.60	52.421		
7,000.00	6,942.21	6,420.17	6,155.85	28.45	36.65	158.11	1,733.92	-275.13	2,624.68	2,574.64	50.04	52.451		
7,100.00	7,041.68	6,512.27	6,243.62	28.85	37.22	158.41	1,761.53	-278.97	2,663.62	2,612.85	50.78	52.456		
7,200.00	7,141.44	6,605.57	6,332.54	29.22	37.79	158.65	1,789.51	-282.87	2,699.56	2,648.05	51.51	52.404		
7,300.00	7,241.39	6,700.05	6,422.49	29.56	38.37	158.84	1,817.80	-286.81	2,732.45	2,680.20	52.25	52.297		
7,344.62	7,286.00	6,742.38	6,462.93	29.69	38.62	0.53	1,830.52	-288.58	2,746.13	2,693.57	52.57	52.239		
7,374.62	7,316.00	7,275.45	6,982.93	29.78	41.25	0.18	1,943.29	-304.28	2,752.77	2,697.10	55.67	49.445		
7,400.00	7,341.37	7,634.78	7,341.37	29.85	42.31	89.89	1,964.55	-307.24	2,753.81	2,697.08	56.73	48.543		
7,450.00	7,391.17	7,684.48	7,391.06	30.02	42.41	89.96	1,964.55	-307.92	2,753.80	2,696.74	57.06	48.260		
7,468.12	7,409.09	7,702.49	7,409.04	30.08	42.45	89.99	1,964.56	-309.09	2,753.80	2,696.61	57.19	48.155		
7,500.00	7,440.39	7,734.30	7,440.66	30.19	42.53	90.05	1,964.57	-312.52	2,753.80	2,696.39	57.41	47.967		
7,550.00	7,488.66	7,784.49	7,490.02	30.37	42.65	90.13	1,964.61	-321.49	2,753.81	2,696.03	57.78	47.661		
7,600.00	7,535.62	7,835.04	7,538.75	30.56	42.77	90.22	1,964.67	-334.86	2,753.82	2,695.65	58.17	47.340		
7,650.00	7,580.90	7,885.97	7,586.47	30.76	42.91	90.30	1,964.75	-352.61	2,753.84	2,695.26	58.59	47.004		
7,700.00	7,624.18	7,937.26	7,632.75	30.97	43.05	90.38	1,964.85	-374.70	2,753.87	2,694.83	59.03	46.648		
7,750.00	7,665.10	7,988.93	7,677.17	31.18	43.19	90.46	1,964.96	-401.05	2,753.90	2,694.38	59.52	46.270		
7,800.00	7,703.37	8,040.97	7,719.33	31.40	43.34	90.54	1,965.10	-431.51	2,753.94	2,693.89	60.04	45.865		
7,850.00	7,738.70	8,093.35	7,758.81	31.64	43.51	90.61	1,965.25	-465.92	2,753.98	2,693.35	60.62	45.427		
7,900.00	7,770.80	8,146.08	7,795.21	31.90	43.68	90.68	1,965.42	-504.04	2,754.02	2,692.75	61.27	44.951		
7,950.00	7,799.45	8,199.13	7,828.14	32.18	43.86	90.74	1,965.60	-545.61	2,754.06	2,692.08	61.98	44.433		
8,000.00	7,824.41	8,252.47	7,857.23	32.49	44.06	90.79	1,965.80	-590.30	2,754.10	2,691.32	62.78	43.869		
8,050.00	7,845.51	8,306.09	7,882.16	32.83	44.28	90.84	1,966.01	-637.74	2,754.14	2,690.47	63.67	43.259		
8,100.00	7,862.58	8,359.95	7,902.63	33.22	44.52	90.89	1,966.22	-687.54	2,754.18	2,689.52	64.65	42.598		
8,150.00	7,875.49	8,414.02	7,918.38	33.65	44.78	90.92	1,966.45	-739.24	2,754.21	2,688.48	65.73	41.902		
8,200.00	7,884.14	8,468.25	7,929.22	34.13	45.08	90.95	1,966.69	-792.36	2,754.24	2,687.34	66.89	41.174		
8,250.00	7,888.47	8,522.62	7,935.00	34.65	45.40	90.97	1,966.92	-846.40	2,754.26	2,686.13	68.13	40.425		
8,274.69	7,889.00	8,549.51	7,935.96	34.93	45.58	90.98	1,967.04	-873.27	2,754.27	2,685.50	68.77	40.053		
8,300.00	7,889.00	8,575.39	7,936.00	35.22	45.75	90.98	1,967.16	-899.15	2,754.27	2,684.85	69.42	39.675		
8,400.00	7,889.00	8,675.39	7,936.00	36.48	46.50	90.98	1,967.60	-999.15	2,754.28	2,682.09	72.19	38.153		
8,500.00	7,889.00	8,775.39	7,936.00	37.92	47.38	90.98	1,968.04	-1,099.14	2,754.29	2,679.06	75.23	36.611		
8,600.00	7,889.00	8,875.39	7,936.00	39.49	48.39	90.98	1,968.48	-1,199.14	2,754.31	2,675.78	78.52	35.076		
8,700.00	7,888.99	8,975.39	7,935.99	41.20	49.54	90.98	1,968.92	-1,299.14	2,754.32	2,672.28	82.04	33.574		
8,800.00	7,888.99	9,075.39	7,935.99	43.01	50.82	90.98	1,969.36	-1,399.14	2,754.33	2,668.58	85.74	32.122		

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 5-6-8
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 5-6-8	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	7,888.99	9,175.39	7,935.99	44.92	52.23	90.98	1,969.80	-1,499.14	2,754.34	2,664.72	89.62	30.733		
9,000.00	7,888.99	9,275.39	7,935.99	46.91	53.77	90.98	1,970.24	-1,599.14	2,754.35	2,660.70	93.65	29.413		
9,100.00	7,888.99	9,375.39	7,935.99	48.97	55.41	90.98	1,970.68	-1,699.14	2,754.36	2,656.56	97.80	28.163		
9,200.00	7,888.99	9,475.39	7,935.99	51.09	57.14	90.98	1,971.12	-1,799.14	2,754.37	2,652.30	102.07	26.985		
9,300.00	7,888.99	9,575.39	7,935.99	53.27	58.97	90.98	1,971.56	-1,899.14	2,754.38	2,647.94	106.44	25.878		
9,400.00	7,888.99	9,675.39	7,935.98	55.49	60.88	90.98	1,972.00	-1,999.14	2,754.39	2,643.49	110.90	24.837		
9,500.00	7,888.99	9,775.39	7,935.98	57.75	62.85	90.98	1,972.44	-2,099.13	2,754.40	2,638.97	115.43	23.861		
9,600.00	7,888.99	9,875.39	7,935.98	60.05	64.89	90.98	1,972.88	-2,199.13	2,754.41	2,634.37	120.04	22.946		
9,700.00	7,888.98	9,975.39	7,935.98	62.38	66.98	90.98	1,973.32	-2,299.13	2,754.42	2,629.71	124.71	22.087		
9,800.00	7,888.98	10,075.39	7,935.98	64.74	69.12	90.98	1,973.76	-2,399.13	2,754.43	2,625.00	129.43	21.281		
9,900.00	7,888.98	10,175.39	7,935.98	67.13	71.31	90.98	1,974.20	-2,499.13	2,754.44	2,620.24	134.20	20.524		
10,000.00	7,888.98	10,275.39	7,935.98	69.54	73.53	90.98	1,974.64	-2,599.13	2,754.45	2,615.43	139.02	19.813		
10,100.00	7,888.98	10,375.39	7,935.97	71.96	75.79	90.98	1,975.08	-2,699.13	2,754.46	2,610.58	143.88	19.145		
10,200.00	7,888.98	10,475.39	7,935.97	74.41	78.08	90.98	1,975.52	-2,799.13	2,754.47	2,605.70	148.77	18.515		
10,300.00	7,888.98	10,575.39	7,935.97	76.87	80.39	90.98	1,975.96	-2,899.13	2,754.47	2,600.78	153.69	17.922		
10,400.00	7,888.98	10,675.39	7,935.97	79.35	82.74	90.98	1,976.40	-2,999.13	2,754.48	2,595.84	158.65	17.362		
10,500.00	7,888.98	10,775.39	7,935.97	81.84	85.10	90.98	1,976.84	-3,099.13	2,754.49	2,590.86	163.63	16.834		
10,600.00	7,888.98	10,875.39	7,935.97	84.35	87.49	90.98	1,977.28	-3,199.12	2,754.50	2,585.86	168.63	16.334		
10,700.00	7,888.98	10,975.39	7,935.97	86.86	89.89	90.98	1,977.72	-3,299.12	2,754.51	2,580.84	173.66	15.861		
10,800.00	7,888.98	11,075.39	7,935.96	89.39	92.31	90.98	1,978.16	-3,399.12	2,754.51	2,575.80	178.71	15.413		
10,900.00	7,888.98	11,175.39	7,935.96	91.93	94.75	90.98	1,978.60	-3,499.12	2,754.52	2,570.74	183.78	14.988		
11,000.00	7,888.97	11,275.39	7,935.96	94.47	97.20	90.98	1,979.05	-3,599.12	2,754.53	2,565.67	188.86	14.585		
11,100.00	7,888.97	11,375.39	7,935.96	97.02	99.67	90.98	1,979.49	-3,699.12	2,754.54	2,560.57	193.96	14.201		
11,200.00	7,888.97	11,475.39	7,935.96	99.58	102.15	90.98	1,979.93	-3,799.12	2,754.54	2,555.47	199.08	13.837		
11,300.00	7,888.97	11,575.39	7,935.96	102.15	104.63	90.98	1,980.37	-3,899.12	2,754.55	2,550.35	204.20	13.489		
11,400.00	7,888.97	11,675.39	7,935.96	104.72	107.13	90.98	1,980.81	-3,999.12	2,754.56	2,545.21	209.35	13.158		
11,500.00	7,888.97	11,775.39	7,935.95	107.30	109.64	90.98	1,981.25	-4,099.12	2,754.56	2,540.07	214.50	12.842		
11,600.00	7,888.97	11,875.39	7,935.95	109.88	112.16	90.98	1,981.69	-4,199.11	2,754.57	2,534.91	219.66	12.540		
11,700.00	7,888.97	11,975.39	7,935.95	112.47	114.69	90.98	1,982.13	-4,299.11	2,754.58	2,529.74	224.84	12.252		
11,800.00	7,888.97	12,075.39	7,935.95	115.06	117.22	90.98	1,982.57	-4,399.11	2,754.58	2,524.56	230.02	11.976		
11,900.00	7,888.97	12,175.39	7,935.95	117.66	119.76	90.98	1,983.01	-4,499.11	2,754.59	2,519.38	235.21	11.711		
12,000.00	7,888.97	12,275.39	7,935.95	120.26	122.31	90.98	1,983.45	-4,599.11	2,754.59	2,514.18	240.41	11.458		
12,100.00	7,888.97	12,375.39	7,935.95	122.87	124.86	90.98	1,983.89	-4,699.11	2,754.60	2,508.98	245.62	11.215		
12,200.00	7,888.97	12,475.39	7,935.94	125.48	127.42	90.98	1,984.33	-4,799.11	2,754.60	2,503.77	250.83	10.982		
12,300.00	7,888.97	12,575.39	7,935.94	128.09	129.99	90.98	1,984.77	-4,899.11	2,754.61	2,498.56	256.05	10.758		
12,400.00	7,888.97	12,675.39	7,935.94	130.70	132.56	90.98	1,985.21	-4,999.11	2,754.61	2,493.33	261.28	10.543		
12,500.00	7,888.97	12,775.39	7,935.94	133.32	135.13	90.98	1,985.65	-5,099.11	2,754.62	2,488.10	266.52	10.336		
12,600.00	7,888.97	12,875.39	7,935.94	135.94	137.71	90.98	1,986.09	-5,199.10	2,754.62	2,482.87	271.75	10.136		
12,700.00	7,888.97	12,975.39	7,935.94	138.57	140.30	90.98	1,986.53	-5,299.10	2,754.63	2,477.63	277.00	9.945		
12,800.00	7,888.97	13,075.39	7,935.94	141.19	142.88	90.98	1,986.97	-5,399.10	2,754.63	2,472.38	282.25	9.760		
12,900.00	7,888.97	13,175.39	7,935.93	143.82	145.48	90.98	1,987.41	-5,499.10	2,754.64	2,467.13	287.50	9.581		
13,000.00	7,888.97	13,275.39	7,935.93	146.45	148.07	90.98	1,987.85	-5,599.10	2,754.64	2,461.88	292.76	9.409		
13,100.00	7,888.97	13,375.39	7,935.93	149.09	150.67	90.98	1,988.29	-5,699.10	2,754.64	2,456.62	298.03	9.243		
13,200.00	7,888.97	13,475.39	7,935.93	151.72	153.27	90.98	1,988.73	-5,799.10	2,754.65	2,451.35	303.29	9.082		
13,300.00	7,888.97	13,575.39	7,935.93	154.36	155.88	90.98	1,989.17	-5,899.10	2,754.65	2,446.09	308.57	8.927		
13,400.00	7,888.97	13,675.39	7,935.93	157.00	158.49	90.98	1,989.61	-5,999.10	2,754.65	2,440.81	313.84	8.777		
13,500.00	7,888.97	13,775.39	7,935.93	159.64	161.10	90.98	1,990.05	-6,099.10	2,754.66	2,435.54	319.12	8.632		
13,600.00	7,888.97	13,875.39	7,935.92	162.28	163.71	90.98	1,990.49	-6,199.10	2,754.66	2,430.26	324.40	8.492		
13,700.00	7,888.97	13,975.39	7,935.92	164.93	166.33	90.98	1,990.93	-6,299.09	2,754.66	2,424.98	329.69	8.355		
13,800.00	7,888.97	14,075.39	7,935.92	167.57	168.95	90.98	1,991.37	-6,399.09	2,754.67	2,419.69	334.97	8.224		
13,900.00	7,888.97	14,175.39	7,935.92	170.22	171.57	90.98	1,991.81	-6,499.09	2,754.67	2,414.40	340.26	8.096		
14,000.00	7,888.97	14,275.39	7,935.92	172.87	174.19	90.98	1,992.25	-6,599.09	2,754.67	2,409.11	345.56	7.972		

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 5-6-8
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 5-6-8	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 4-6S 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					
14,100.00	7,888.97	14,375.39	7,935.92	175.51	176.81	90.98	1,992.69	-6,699.09	2,754.67	2,403.82	350.85	7.851					
14,200.00	7,888.97	14,475.39	7,935.92	178.16	179.44	90.98	1,993.13	-6,799.09	2,754.67	2,398.52	356.15	7.735					
14,300.00	7,888.97	14,575.39	7,935.91	180.82	182.07	90.98	1,993.58	-6,899.09	2,754.68	2,393.22	361.45	7.621					
14,400.00	7,888.97	14,675.39	7,935.91	183.47	184.70	90.98	1,994.02	-6,999.09	2,754.68	2,387.92	366.76	7.511					
14,500.00	7,888.97	14,775.39	7,935.91	186.12	187.33	90.98	1,994.46	-7,099.09	2,754.68	2,382.62	372.06	7.404					
14,600.00	7,888.97	14,875.39	7,935.91	188.78	189.97	90.98	1,994.90	-7,199.09	2,754.68	2,377.31	377.37	7.300					
14,700.00	7,888.97	14,975.39	7,935.91	191.43	192.60	90.98	1,995.34	-7,299.08	2,754.68	2,372.00	382.68	7.198					
14,800.00	7,888.97	15,075.39	7,935.91	194.09	195.24	90.98	1,995.78	-7,399.08	2,754.68	2,366.69	387.99	7.100					
14,900.00	7,888.97	15,175.39	7,935.91	196.75	197.88	90.98	1,996.22	-7,499.08	2,754.68	2,361.38	393.30	7.004					
15,000.00	7,888.97	15,275.39	7,935.90	199.41	200.52	90.98	1,996.66	-7,599.08	2,754.68	2,356.07	398.62	6.911					
15,100.00	7,888.97	15,375.39	7,935.90	202.07	203.16	90.98	1,997.10	-7,699.08	2,754.68	2,350.75	403.93	6.820					
15,200.00	7,888.97	15,475.39	7,935.90	204.73	205.80	90.98	1,997.54	-7,799.08	2,754.68	2,345.43	409.25	6.731					
15,300.00	7,888.98	15,575.39	7,935.90	207.39	208.45	90.98	1,997.98	-7,899.08	2,754.68	2,340.11	414.57	6.645					
15,400.00	7,888.98	15,675.39	7,935.90	210.05	211.09	90.98	1,998.42	-7,999.08	2,754.68	2,334.79	419.89	6.560					
15,500.00	7,888.98	15,775.39	7,935.90	212.71	213.74	90.98	1,998.86	-8,099.08	2,754.68	2,329.47	425.22	6.478					
15,600.00	7,888.98	15,875.39	7,935.90	215.37	216.39	90.98	1,999.30	-8,199.08	2,754.68	2,324.14	430.54	6.398					
15,700.00	7,888.98	15,975.39	7,935.89	218.04	219.03	90.98	1,999.74	-8,299.07	2,754.68	2,318.82	435.86	6.320					
15,800.00	7,888.98	16,075.39	7,935.89	220.70	221.68	90.98	2,000.18	-8,399.07	2,754.68	2,313.49	441.19	6.244					
15,900.00	7,888.98	16,175.39	7,935.89	223.37	224.33	90.98	2,000.62	-8,499.07	2,754.68	2,308.16	446.52	6.169					
16,000.00	7,888.98	16,275.39	7,935.89	226.03	226.98	90.98	2,001.06	-8,599.07	2,754.68	2,302.83	451.85	6.096					
16,100.00	7,888.98	16,375.39	7,935.89	228.70	229.64	90.98	2,001.50	-8,699.07	2,754.68	2,297.50	457.18	6.025					
16,200.00	7,888.98	16,475.39	7,935.89	231.37	232.29	90.98	2,001.94	-8,799.07	2,754.68	2,292.17	462.51	5.956					
16,300.00	7,888.98	16,575.39	7,935.89	234.03	234.94	90.98	2,002.38	-8,899.07	2,754.68	2,286.83	467.84	5.888					
16,400.00	7,888.98	16,675.39	7,935.88	236.70	237.60	90.98	2,002.82	-8,999.07	2,754.67	2,281.50	473.18	5.822					
16,500.00	7,888.98	16,775.39	7,935.88	239.37	240.25	90.98	2,003.26	-9,099.07	2,754.67	2,276.16	478.51	5.757					
16,600.00	7,888.98	16,875.39	7,935.88	242.04	242.91	90.98	2,003.70	-9,199.07	2,754.67	2,270.82	483.85	5.693					
16,700.00	7,888.99	16,975.39	7,935.88	244.71	245.57	90.98	2,004.14	-9,299.07	2,754.67	2,265.48	489.18	5.631					
16,800.00	7,888.99	17,075.39	7,935.88	247.38	248.22	90.98	2,004.58	-9,399.06	2,754.66	2,260.14	494.52	5.570					
16,900.00	7,888.99	17,175.39	7,935.88	250.05	250.88	90.98	2,005.02	-9,499.06	2,754.66	2,254.80	499.86	5.511					
17,000.00	7,888.99	17,275.39	7,935.88	252.72	253.54	90.98	2,005.46	-9,599.06	2,754.66	2,249.46	505.20	5.453					
17,100.00	7,888.99	17,375.39	7,935.87	255.39	256.20	90.98	2,005.90	-9,699.06	2,754.66	2,244.12	510.54	5.396					
17,200.00	7,888.99	17,475.39	7,935.87	258.06	258.86	90.98	2,006.34	-9,799.06	2,754.65	2,238.77	515.88	5.340					
17,300.00	7,888.99	17,575.39	7,935.87	260.73	261.52	90.98	2,006.78	-9,899.06	2,754.65	2,233.43	521.22	5.285					
17,400.00	7,888.99	17,675.39	7,935.87	263.40	264.19	90.98	2,007.22	-9,999.06	2,754.65	2,228.08	526.56	5.231					
17,500.00	7,888.99	17,775.39	7,935.87	266.07	266.85	90.98	2,007.67	-10,099.06	2,754.64	2,222.74	531.90	5.179					
17,600.00	7,889.00	17,875.39	7,935.87	268.75	269.51	90.97	2,008.11	-10,199.06	2,754.64	2,217.39	537.25	5.127					
17,700.00	7,889.00	17,975.39	7,935.87	271.42	272.17	90.97	2,008.55	-10,299.06	2,754.63	2,212.04	542.59	5.077					
17,800.00	7,889.00	18,075.39	7,935.86	274.09	274.84	90.97	2,008.99	-10,399.05	2,754.63	2,206.69	547.94	5.027					
17,900.00	7,889.00	18,175.39	7,935.86	276.77	277.50	90.97	2,009.43	-10,499.05	2,754.62	2,201.34	553.28	4.979					
17,961.29	7,889.00	18,239.20	7,936.00	278.41	279.20	90.98	2,009.36	-10,562.86	2,754.28	2,197.67	556.62	4.948 SF					

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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	600.24	600.22	1.93	1.91	92.71	-1.71	36.18	36.22	32.39	3.84	9.440		
700.00	700.00	700.23	700.06	2.29	2.25	101.02	-6.83	35.05	35.71	31.18	4.53	7.883		
712.59	712.59	712.79	712.59	2.33	2.29	102.48	-7.71	34.86	35.70	31.08	4.62	7.728 CC, ES		
800.00	800.00	799.73	799.18	2.64	2.59	114.75	-15.30	33.18	36.54	31.31	5.24	6.980		
900.00	900.00	898.52	897.23	3.00	2.96	131.46	-27.02	30.58	40.90	34.96	5.95	6.880		
1,000.00	999.98	996.63	994.15	3.34	3.34	-56.17	-41.93	27.29	49.38	42.75	6.63	7.449		
1,100.00	1,099.84	1,094.28	1,090.02	3.68	3.75	-47.03	-59.97	23.29	60.21	52.92	7.29	8.259		
1,200.00	1,199.45	1,191.46	1,184.77	4.01	4.18	-41.12	-81.08	18.62	72.34	64.38	7.95	9.095		
1,300.00	1,298.70	1,289.33	1,279.47	4.36	4.65	-37.33	-105.17	13.29	84.89	76.25	8.64	9.825		
1,303.95	1,302.61	1,306.75	1,283.26	4.38	4.74	-37.22	-106.16	13.07	85.36	76.63	8.72	9.784		
1,400.00	1,397.71	1,388.58	1,375.39	4.73	5.15	-35.10	-130.08	7.78	96.63	87.26	9.37	10.312		
1,500.00	1,496.72	1,487.83	1,471.30	5.11	5.66	-33.37	-154.98	2.27	108.48	98.37	10.11	10.729		
1,600.00	1,595.72	1,587.08	1,567.22	5.49	6.18	-31.97	-179.89	-3.24	120.40	109.55	10.86	11.089		
1,700.00	1,694.73	1,686.33	1,663.13	5.89	6.71	-30.83	-204.79	-8.75	132.39	120.78	11.61	11.404		
1,800.00	1,793.74	1,785.57	1,759.05	6.28	7.24	-29.88	-229.70	-14.26	144.41	132.05	12.36	11.680		
1,900.00	1,892.75	1,884.82	1,854.96	6.69	7.78	-29.07	-254.60	-19.77	156.47	143.35	13.12	11.924		
2,000.00	1,991.75	1,984.07	1,950.88	7.09	8.32	-28.38	-279.50	-25.28	168.56	154.68	13.88	12.141		
2,100.00	2,090.76	2,083.32	2,046.79	7.50	8.86	-27.78	-304.41	-30.79	180.67	166.02	14.65	12.335		
2,200.00	2,189.77	2,182.56	2,142.71	7.91	9.41	-27.26	-329.31	-36.30	192.79	177.38	15.41	12.509		
2,300.00	2,288.78	2,281.81	2,238.62	8.33	9.96	-26.79	-354.22	-41.81	204.93	188.75	16.18	12.667		
2,400.00	2,387.78	2,381.06	2,334.53	8.74	10.51	-26.38	-379.12	-47.32	217.08	200.13	16.95	12.810		
2,500.00	2,486.79	2,480.31	2,430.45	9.16	11.06	-26.02	-404.02	-52.84	229.24	211.52	17.72	12.940		
2,600.00	2,585.80	2,579.56	2,526.36	9.58	11.61	-25.69	-428.93	-58.35	241.41	222.92	18.49	13.059		
2,700.00	2,684.81	2,678.80	2,622.28	10.00	12.16	-25.39	-453.83	-63.86	253.58	234.32	19.26	13.168		
2,800.00	2,783.82	2,778.05	2,718.19	10.42	12.72	-25.12	-478.74	-69.37	265.76	245.73	20.03	13.268		
2,900.00	2,882.82	2,877.30	2,814.11	10.84	13.27	-24.87	-503.64	-74.88	277.95	257.15	20.80	13.361		
3,000.00	2,981.83	2,976.55	2,910.02	11.27	13.83	-24.65	-528.54	-80.39	290.14	268.56	21.58	13.447		
3,100.00	3,080.84	3,075.80	3,005.93	11.69	14.38	-24.44	-553.45	-85.90	302.34	279.98	22.35	13.527		
3,200.00	3,179.85	3,175.04	3,101.85	12.11	14.94	-24.25	-578.35	-91.41	314.53	291.41	23.13	13.601		
3,300.00	3,278.85	3,274.29	3,197.76	12.54	15.50	-24.07	-603.26	-96.92	326.74	302.84	23.90	13.671		
3,400.00	3,377.86	3,373.54	3,293.68	12.96	16.06	-23.91	-628.16	-102.43	338.94	314.26	24.68	13.736		
3,500.00	3,476.87	3,472.79	3,389.59	13.39	16.62	-23.75	-653.06	-107.94	351.15	325.70	25.45	13.796		
3,600.00	3,575.88	3,572.03	3,485.51	13.82	17.17	-23.61	-677.97	-113.45	363.36	337.13	26.23	13.854		
3,700.00	3,674.88	3,671.28	3,581.42	14.24	17.73	-23.48	-702.87	-118.96	375.57	348.56	27.01	13.907		
3,800.00	3,773.89	3,770.53	3,677.33	14.67	18.29	-23.35	-727.78	-124.47	387.78	360.00	27.78	13.958		
3,900.00	3,872.90	3,869.78	3,773.25	15.10	18.85	-23.23	-752.68	-129.98	400.00	371.44	28.56	14.006		
4,000.00	3,971.91	3,969.03	3,869.16	15.53	19.41	-23.12	-777.58	-135.49	412.22	382.88	29.34	14.051		
4,100.00	4,070.91	4,068.27	3,965.08	15.96	19.97	-23.02	-802.49	-141.00	424.43	394.32	30.12	14.094		
4,200.00	4,169.92	4,167.52	4,060.99	16.39	20.53	-22.92	-827.39	-146.51	436.65	405.76	30.89	14.134		
4,300.00	4,268.93	4,266.77	4,156.91	16.81	21.09	-22.83	-852.30	-152.02	448.88	417.20	31.67	14.173		
4,400.00	4,367.94	4,366.02	4,252.82	17.24	21.65	-22.74	-877.20	-157.53	461.10	428.65	32.45	14.209		
4,500.00	4,466.94	4,465.27	4,348.74	17.67	22.21	-22.66	-902.10	-163.04	473.32	440.09	33.23	14.244		
4,600.00	4,565.95	4,564.51	4,444.65	18.10	22.77	-22.58	-927.01	-168.55	485.54	451.54	34.01	14.277		
4,700.00	4,664.96	4,663.76	4,540.56	18.53	23.33	-22.50	-951.91	-174.07	497.77	462.98	34.79	14.309		
4,800.00	4,763.97	4,763.01	4,636.48	18.96	23.90	-22.43	-976.82	-179.58	509.99	474.43	35.57	14.339		
4,900.00	4,862.97	4,862.26	4,732.39	19.39	24.46	-22.36	-1,001.72	-185.09	522.22	485.88	36.35	14.368		

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 5-6-8
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 5-6-8	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		
5,000.00	4,961.98	4,961.51	4,828.31	19.82	25.02	-22.30	-1,026.62	-190.60	534.45	497.32	37.12	14.396		
5,100.00	5,060.99	5,060.75	4,924.22	20.25	25.58	-22.23	-1,051.53	-196.11	546.68	508.77	37.90	14.422		
5,200.00	5,160.00	5,160.00	5,020.14	20.68	26.14	-22.17	-1,076.43	-201.62	558.90	520.22	38.68	14.448		
5,300.00	5,259.00	5,259.25	5,116.05	21.11	26.70	-22.12	-1,101.34	-207.13	571.13	531.67	39.46	14.472		
5,400.00	5,358.01	5,358.50	5,211.96	21.55	27.26	-22.06	-1,126.24	-212.64	583.36	543.12	40.24	14.496		
5,500.00	5,457.02	5,457.74	5,307.88	21.98	27.83	-22.01	-1,151.14	-218.15	595.59	554.57	41.02	14.518		
5,600.00	5,556.03	5,556.99	5,403.79	22.41	28.39	-21.96	-1,176.05	-223.66	607.82	566.02	41.80	14.540		
5,700.00	5,655.03	5,656.24	5,499.71	22.84	28.95	-21.91	-1,200.95	-229.17	620.05	577.47	42.58	14.560		
5,800.00	5,754.04	5,755.49	5,595.62	23.27	29.51	-21.86	-1,225.86	-234.68	632.29	588.92	43.37	14.581		
5,900.00	5,853.05	5,854.74	5,691.54	23.70	30.07	-21.82	-1,250.76	-240.19	644.52	600.37	44.15	14.600		
6,000.00	5,952.06	5,953.98	5,787.45	24.13	30.64	-21.78	-1,275.67	-245.70	656.75	611.82	44.93	14.618		
6,100.00	6,051.06	6,053.23	5,883.37	24.56	31.20	-21.74	-1,300.57	-251.21	668.98	623.27	45.71	14.636		
6,200.00	6,150.07	6,152.48	5,979.28	25.00	31.76	-21.70	-1,325.47	-256.72	681.21	634.73	46.49	14.654		
6,300.00	6,249.08	6,251.73	6,075.19	25.43	32.32	-21.66	-1,350.38	-262.23	693.45	646.18	47.27	14.670		
6,400.00	6,348.09	6,350.98	6,171.11	25.86	32.89	-21.62	-1,375.28	-267.74	705.68	657.63	48.05	14.687		
6,500.00	6,447.09	6,450.22	6,267.02	26.29	33.45	-21.58	-1,400.19	-273.25	717.91	669.08	48.83	14.702		
6,600.00	6,546.10	6,549.47	6,362.94	26.72	34.01	-21.55	-1,425.09	-278.76	730.15	680.54	49.61	14.717		
6,700.00	6,645.11	6,648.72	6,458.85	27.15	34.57	-21.52	-1,449.99	-284.27	742.38	691.99	50.39	14.732		
6,800.00	6,744.12	6,747.97	6,554.77	27.59	35.14	-21.48	-1,474.90	-289.78	754.62	703.44	51.17	14.746		
6,900.00	6,843.12	6,866.94	6,669.99	28.02	35.79	-21.46	-1,503.81	-296.18	766.13	714.03	52.11	14.703		
6,940.67	6,883.39	6,921.82	6,723.50	28.19	36.08	-21.48	-1,515.71	-298.82	769.69	717.17	52.52	14.656		
7,000.00	6,942.21	7,002.11	6,802.18	28.45	36.48	-21.54	-1,531.31	-302.27	774.09	721.00	53.09	14.582		
7,100.00	7,041.68	7,137.87	6,936.14	28.85	37.09	-21.61	-1,552.78	-307.02	780.41	726.46	53.94	14.467		
7,200.00	7,141.44	7,274.10	7,071.45	29.22	37.62	-21.65	-1,568.07	-310.40	785.34	730.66	54.67	14.364		
7,300.00	7,241.39	7,410.67	7,207.70	29.56	38.07	-21.65	-1,577.07	-312.39	788.87	733.59	55.28	14.271		
7,344.62	7,286.00	7,471.69	7,268.68	29.69	38.24	-179.99	-1,579.05	-312.83	789.99	734.49	55.50	14.235		
7,374.62	7,316.00	7,512.75	7,309.73	29.78	38.36	-180.00	-1,579.66	-312.96	790.43	734.80	55.63	14.209		
7,400.00	7,341.37	7,544.39	7,341.37	29.85	38.43	-90.28	-1,579.75	-312.99	790.50	734.75	55.75	14.179		
7,450.00	7,391.17	7,594.58	7,391.55	30.02	38.54	-90.55	-1,579.75	-313.70	790.53	734.42	56.11	14.089		
7,500.00	7,440.39	7,645.27	7,442.00	30.19	38.67	-90.84	-1,579.73	-318.46	790.58	734.09	56.49	13.994		
7,550.00	7,488.66	7,696.33	7,492.20	30.37	38.81	-91.13	-1,579.69	-327.74	790.65	733.76	56.89	13.898		
7,600.00	7,535.62	7,747.77	7,541.72	30.56	38.96	-91.41	-1,579.63	-341.57	790.73	733.43	57.30	13.799		
7,650.00	7,580.90	7,799.57	7,590.14	30.76	39.12	-91.68	-1,579.55	-359.93	790.83	733.10	57.73	13.698		
7,700.00	7,624.18	7,851.72	7,637.01	30.97	39.28	-91.94	-1,579.45	-382.75	790.94	732.76	58.19	13.593		
7,750.00	7,665.10	7,904.23	7,681.91	31.18	39.45	-92.18	-1,579.33	-409.93	791.06	732.40	58.67	13.484		
7,800.00	7,703.37	7,957.06	7,724.39	31.40	39.63	-92.41	-1,579.19	-441.32	791.19	732.01	59.18	13.370		
7,850.00	7,738.70	8,010.20	7,764.02	31.64	39.82	-92.61	-1,579.04	-476.70	791.31	731.57	59.73	13.247		
7,900.00	7,770.80	8,063.63	7,800.38	31.90	40.01	-92.80	-1,578.87	-515.81	791.43	731.08	60.35	13.115		
7,950.00	7,799.45	8,117.32	7,833.10	32.18	40.22	-92.97	-1,578.68	-558.36	791.54	730.52	61.02	12.971		
8,000.00	7,824.41	8,171.24	7,861.80	32.49	40.44	-93.11	-1,578.48	-603.98	791.64	729.86	61.77	12.815		
8,050.00	7,845.51	8,225.34	7,886.17	32.83	40.69	-93.22	-1,578.27	-652.26	791.72	729.11	62.61	12.645		
8,100.00	7,862.58	8,279.61	7,905.92	33.22	40.95	-93.31	-1,578.05	-702.78	791.79	728.25	63.54	12.462		
8,150.00	7,875.49	8,333.98	7,920.84	33.65	41.25	-93.37	-1,577.83	-755.05	791.83	727.28	64.56	12.266		
8,200.00	7,884.14	8,388.43	7,930.75	34.13	41.57	-93.40	-1,577.59	-808.57	791.86	726.19	65.66	12.059		
8,250.00	7,888.47	8,442.91	7,935.53	34.65	41.94	-93.41	-1,577.36	-862.81	791.86	725.00	66.85	11.845		
8,274.69	7,889.00	8,469.50	7,936.00	34.93	42.13	-93.40	-1,577.24	-889.40	791.85	724.38	67.47	11.736		
8,300.00	7,889.00	8,505.19	7,936.00	35.22	42.39	-93.40	-1,577.13	-914.71	791.85	723.58	68.27	11.598		
8,400.00	7,889.00	8,594.81	7,936.00	36.48	43.15	-93.40	-1,576.70	-1,014.71	791.84	720.89	70.96	11.160		
8,500.00	7,889.00	8,705.19	7,936.00	37.92	44.25	-93.40	-1,576.26	-1,114.71	791.84	717.61	74.22	10.668		
8,600.00	7,889.00	8,805.19	7,935.99	39.49	45.41	-93.40	-1,575.83	-1,214.71	791.83	714.24	77.59	10.206		
8,700.00	7,888.99	8,905.19	7,935.99	41.20	46.72	-93.40	-1,575.39	-1,314.71	791.82	710.66	81.17	9.755		
8,800.00	7,888.99	9,005.19	7,935.99	43.01	48.18	-93.40	-1,574.96	-1,414.71	791.82	706.88	84.94	9.322		

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 5-6-8
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 5-6-8	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	7,888.99	9,105.19	7,935.99	44.92	49.76	-93.40	-1,574.52	-1,514.71	791.81	702.94	88.87	8.909		
9,000.00	7,888.99	9,205.19	7,935.99	46.91	51.46	-93.40	-1,574.09	-1,614.70	791.81	698.85	92.95	8.518		
9,100.00	7,888.99	9,305.19	7,935.99	48.97	53.26	-93.40	-1,573.65	-1,714.70	791.80	694.64	97.16	8.149		
9,200.00	7,888.99	9,405.19	7,935.98	51.09	55.15	-93.40	-1,573.22	-1,814.70	791.80	690.32	101.48	7.803		
9,300.00	7,888.99	9,505.19	7,935.98	53.27	57.13	-93.40	-1,572.78	-1,914.70	791.79	685.90	105.89	7.477		
9,400.00	7,888.99	9,605.19	7,935.98	55.49	59.17	-93.40	-1,572.35	-2,014.70	791.79	681.40	110.39	7.173		
9,500.00	7,888.99	9,705.19	7,935.98	57.75	61.27	-93.40	-1,571.91	-2,114.70	791.78	676.82	114.96	6.887		
9,600.00	7,888.99	9,805.19	7,935.98	60.05	63.42	-93.40	-1,571.48	-2,214.70	791.78	672.17	119.60	6.620		
9,700.00	7,888.98	9,905.19	7,935.97	62.38	65.62	-93.40	-1,571.04	-2,314.70	791.77	667.47	124.30	6.370		
9,800.00	7,888.98	10,005.19	7,935.97	64.74	67.86	-93.40	-1,570.61	-2,414.70	791.77	662.71	129.05	6.135		
9,900.00	7,888.98	10,105.19	7,935.97	67.13	70.14	-93.40	-1,570.17	-2,514.70	791.76	657.91	133.85	5.915		
10,000.00	7,888.98	10,205.19	7,935.97	69.54	72.44	-93.40	-1,569.74	-2,614.70	791.76	653.06	138.70	5.709		
10,100.00	7,888.98	10,305.19	7,935.97	71.96	74.78	-93.40	-1,569.30	-2,714.69	791.76	648.18	143.58	5.515		
10,200.00	7,888.98	10,405.19	7,935.97	74.41	77.14	-93.40	-1,568.87	-2,814.69	791.75	643.26	148.49	5.332		
10,300.00	7,888.98	10,505.19	7,935.96	76.87	79.53	-93.40	-1,568.43	-2,914.69	791.75	638.32	153.43	5.160		
10,400.00	7,888.98	10,605.19	7,935.96	79.35	81.94	-93.40	-1,568.00	-3,014.69	791.75	633.34	158.41	4.998		
10,500.00	7,888.98	10,705.19	7,935.96	81.84	84.36	-93.40	-1,567.56	-3,114.69	791.74	628.34	163.41	4.845		
10,600.00	7,888.98	10,805.19	7,935.96	84.35	86.81	-93.40	-1,567.13	-3,214.69	791.74	623.31	168.43	4.701		
10,700.00	7,888.98	10,905.19	7,935.96	86.86	89.27	-93.40	-1,566.69	-3,314.69	791.74	618.27	173.47	4.564		
10,800.00	7,888.98	11,005.19	7,935.95	89.39	91.74	-93.40	-1,566.26	-3,414.69	791.74	613.20	178.53	4.435		
10,900.00	7,888.98	11,105.19	7,935.95	91.93	94.22	-93.40	-1,565.82	-3,514.69	791.73	608.12	183.61	4.312		
11,000.00	7,888.97	11,205.19	7,935.95	94.47	96.72	-93.40	-1,565.39	-3,614.69	791.73	603.02	188.71	4.196		
11,100.00	7,888.97	11,305.19	7,935.95	97.02	99.23	-93.40	-1,564.95	-3,714.68	791.73	597.91	193.82	4.085		
11,200.00	7,888.97	11,405.19	7,935.95	99.58	101.75	-93.40	-1,564.52	-3,814.68	791.73	592.78	198.94	3.980		
11,300.00	7,888.97	11,505.19	7,935.95	102.15	104.28	-93.40	-1,564.08	-3,914.68	791.73	587.64	204.08	3.879		
11,400.00	7,888.97	11,605.19	7,935.94	104.72	106.81	-93.40	-1,563.65	-4,014.68	791.72	582.49	209.23	3.784		
11,500.00	7,888.97	11,705.19	7,935.94	107.30	109.36	-93.40	-1,563.21	-4,114.68	791.72	577.33	214.39	3.693		
11,600.00	7,888.97	11,805.19	7,935.94	109.88	111.91	-93.40	-1,562.78	-4,214.68	791.72	572.16	219.56	3.606		
11,700.00	7,888.97	11,905.19	7,935.94	112.47	114.47	-93.40	-1,562.34	-4,314.68	791.72	566.98	224.74	3.523		
11,800.00	7,888.97	12,005.19	7,935.94	115.06	117.03	-93.40	-1,561.91	-4,414.68	791.72	561.79	229.93	3.443		
11,900.00	7,888.97	12,105.19	7,935.93	117.66	119.60	-93.40	-1,561.47	-4,514.68	791.72	556.59	235.13	3.367		
12,000.00	7,888.97	12,205.19	7,935.93	120.26	122.18	-93.40	-1,561.04	-4,614.68	791.72	551.38	240.34	3.294		
12,100.00	7,888.97	12,305.19	7,935.93	122.87	124.76	-93.40	-1,560.60	-4,714.68	791.72	546.17	245.55	3.224		
12,200.00	7,888.97	12,405.19	7,935.93	125.48	127.35	-93.40	-1,560.17	-4,814.67	791.72	540.95	250.77	3.157		
12,296.30	7,888.97	12,508.89	7,935.93	127.99	130.03	-93.40	-1,559.75	-4,910.97	791.72	535.72	256.00	3.093		
12,300.00	7,888.97	12,505.19	7,935.93	128.09	129.94	-93.40	-1,559.73	-4,914.67	791.72	535.72	256.00	3.093		
12,400.00	7,888.97	12,605.19	7,935.93	130.70	132.53	-93.40	-1,559.30	-5,014.67	791.72	530.49	261.23	3.031		
12,500.00	7,888.97	12,705.19	7,935.92	133.32	135.13	-93.40	-1,558.86	-5,114.67	791.72	525.25	266.47	2.971		
12,600.00	7,888.97	12,805.19	7,935.92	135.94	137.73	-93.40	-1,558.43	-5,214.67	791.72	520.01	271.71	2.914		
12,700.00	7,888.97	12,905.19	7,935.92	138.57	140.34	-93.40	-1,557.99	-5,314.67	791.72	514.76	276.96	2.859		
12,800.00	7,888.97	13,005.19	7,935.92	141.19	142.95	-93.40	-1,557.56	-5,414.67	791.72	509.51	282.21	2.805		
12,900.00	7,888.97	13,105.19	7,935.92	143.82	145.56	-93.40	-1,557.12	-5,514.67	791.72	504.25	287.47	2.754		
13,000.00	7,888.97	13,205.19	7,935.91	146.45	148.18	-93.40	-1,556.69	-5,614.67	791.72	498.99	292.73	2.705		
13,100.00	7,888.97	13,305.19	7,935.91	149.09	150.79	-93.40	-1,556.25	-5,714.67	791.72	493.73	298.00	2.657		
13,200.00	7,888.97	13,405.19	7,935.91	151.72	153.42	-93.40	-1,555.82	-5,814.66	791.73	488.46	303.27	2.611		
13,300.00	7,888.97	13,505.19	7,935.91	154.36	156.04	-93.40	-1,555.38	-5,914.66	791.73	483.19	308.54	2.566		
13,400.00	7,888.97	13,605.19	7,935.91	157.00	158.67	-93.40	-1,554.94	-6,014.66	791.73	477.91	313.82	2.523		
13,500.00	7,888.97	13,705.19	7,935.91	159.64	161.29	-93.40	-1,554.51	-6,114.66	791.73	472.63	319.10	2.481		
13,600.00	7,888.97	13,805.19	7,935.90	162.28	163.92	-93.40	-1,554.07	-6,214.66	791.73	467.35	324.38	2.441		
13,700.00	7,888.97	13,905.19	7,935.90	164.93	166.56	-93.40	-1,553.64	-6,314.66	791.74	462.07	329.67	2.402		
13,800.00	7,888.97	14,005.19	7,935.90	167.57	169.19	-93.40	-1,553.20	-6,414.66	791.74	456.78	334.96	2.364		
13,900.00	7,888.97	14,105.19	7,935.90	170.22	171.83	-93.40	-1,552.77	-6,514.66	791.74	451.49	340.25	2.327		

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 5-6-8
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 5-6-8	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	7,888.97	14,205.19	7,935.90	172.87	174.47	-93.40	-1,552.33	-6,614.66	791.74	446.20	345.54	2.291		
14,100.00	7,888.97	14,305.19	7,935.89	175.51	177.11	-93.40	-1,551.90	-6,714.66	791.75	440.91	350.84	2.257		
14,200.00	7,888.97	14,405.19	7,935.89	178.16	179.75	-93.40	-1,551.46	-6,814.66	791.75	435.61	356.14	2.223		
14,300.00	7,888.97	14,505.19	7,935.89	180.82	182.39	-93.40	-1,551.03	-6,914.65	791.75	430.31	361.44	2.191		
14,400.00	7,888.97	14,605.19	7,935.89	183.47	185.03	-93.40	-1,550.59	-7,014.65	791.76	425.01	366.75	2.159		
14,500.00	7,888.97	14,705.19	7,935.89	186.12	187.68	-93.40	-1,550.16	-7,114.65	791.76	419.71	372.05	2.128		
14,600.00	7,888.97	14,805.19	7,935.89	188.78	190.33	-93.40	-1,549.72	-7,214.65	791.76	414.41	377.36	2.098		
14,700.00	7,888.97	14,905.19	7,935.88	191.43	192.98	-93.40	-1,549.29	-7,314.65	791.77	409.10	382.67	2.069		
14,800.00	7,888.97	15,005.19	7,935.88	194.09	195.63	-93.40	-1,548.85	-7,414.65	791.77	403.79	387.98	2.041		
14,900.00	7,888.97	15,105.19	7,935.88	196.75	198.28	-93.40	-1,548.42	-7,514.65	791.78	398.49	393.29	2.013		
15,000.00	7,888.97	15,205.19	7,935.88	199.41	200.93	-93.40	-1,547.98	-7,614.65	791.78	393.17	398.61	1.986		
15,100.00	7,888.97	15,305.19	7,935.88	202.07	203.58	-93.40	-1,547.55	-7,714.65	791.79	387.86	403.92	1.960		
15,200.00	7,888.97	15,405.19	7,935.87	204.73	206.24	-93.40	-1,547.11	-7,814.65	791.79	382.55	409.24	1.935		
15,300.00	7,888.98	15,505.19	7,935.87	207.39	208.89	-93.40	-1,546.68	-7,914.65	791.80	377.24	414.56	1.910		
15,400.00	7,888.98	15,605.19	7,935.87	210.05	211.55	-93.40	-1,546.24	-8,014.64	791.80	371.92	419.88	1.886		
15,500.00	7,888.98	15,705.19	7,935.87	212.71	214.20	-93.40	-1,545.81	-8,114.64	791.81	366.60	425.20	1.862		
15,600.00	7,888.98	15,805.19	7,935.87	215.37	216.86	-93.39	-1,545.37	-8,214.64	791.81	361.29	430.53	1.839		
15,700.00	7,888.98	15,905.19	7,935.87	218.04	219.52	-93.39	-1,544.94	-8,314.64	791.82	355.97	435.85	1.817		
15,800.00	7,888.98	16,005.19	7,935.86	220.70	222.18	-93.39	-1,544.50	-8,414.64	791.82	350.65	441.18	1.795		
15,900.00	7,888.98	16,105.19	7,935.86	223.37	224.84	-93.39	-1,544.07	-8,514.64	791.83	345.33	446.50	1.773		
16,000.00	7,888.98	16,205.19	7,935.86	226.03	227.50	-93.39	-1,543.63	-8,614.64	791.84	340.00	451.83	1.752		
16,100.00	7,888.98	16,305.19	7,935.86	228.70	230.17	-93.39	-1,543.20	-8,714.64	791.84	334.68	457.16	1.732		
16,200.00	7,888.98	16,405.19	7,935.86	231.37	232.83	-93.39	-1,542.76	-8,814.64	791.85	329.36	462.49	1.712		
16,300.00	7,888.98	16,505.19	7,935.85	234.03	235.49	-93.39	-1,542.33	-8,914.64	791.86	324.03	467.82	1.693		
16,400.00	7,888.98	16,605.19	7,935.85	236.70	238.16	-93.39	-1,541.89	-9,014.63	791.86	318.71	473.16	1.674		
16,500.00	7,888.98	16,705.19	7,935.85	239.37	240.82	-93.39	-1,541.46	-9,114.63	791.87	313.38	478.49	1.655		
16,600.00	7,888.98	16,805.19	7,935.85	242.04	243.49	-93.39	-1,541.02	-9,214.63	791.88	308.05	483.82	1.637		
16,700.00	7,888.99	16,905.19	7,935.85	244.71	246.15	-93.39	-1,540.59	-9,314.63	791.89	302.73	489.16	1.619		
16,800.00	7,888.99	17,005.19	7,935.85	247.38	248.82	-93.39	-1,540.15	-9,414.63	791.89	297.40	494.50	1.601		
16,900.00	7,888.99	17,105.19	7,935.84	250.05	251.49	-93.39	-1,539.72	-9,514.63	791.90	292.07	499.83	1.584		
17,000.00	7,888.99	17,205.19	7,935.84	252.72	254.16	-93.39	-1,539.28	-9,614.63	791.91	286.74	505.17	1.568		
17,100.00	7,888.99	17,305.19	7,935.84	255.39	256.82	-93.39	-1,538.85	-9,714.63	791.92	281.41	510.51	1.551		
17,200.00	7,888.99	17,394.81	7,935.84	258.06	259.22	-93.39	-1,538.41	-9,814.63	791.92	276.35	515.57	1.536		
17,300.00	7,888.99	17,505.19	7,935.84	260.73	262.16	-93.39	-1,537.98	-9,914.63	791.93	270.74	521.19	1.519		
17,400.00	7,888.99	17,605.19	7,935.83	263.40	264.83	-93.39	-1,537.54	-10,014.63	791.94	265.41	526.53	1.504		
17,500.00	7,888.99	17,705.19	7,935.83	266.07	267.50	-93.39	-1,537.11	-10,114.62	791.95	260.08	531.87	1.489 Level 3		
17,600.00	7,889.00	17,805.19	7,935.83	268.75	270.17	-93.39	-1,536.67	-10,214.62	791.96	254.75	537.21	1.474 Level 3		
17,700.00	7,889.00	17,905.19	7,935.83	271.42	272.84	-93.39	-1,536.24	-10,314.62	791.97	249.41	542.56	1.460 Level 3		
17,800.00	7,889.00	18,005.19	7,935.83	274.09	275.52	-93.39	-1,535.80	-10,414.62	791.98	244.08	547.90	1.445 Level 3		
17,900.00	7,889.00	18,094.81	7,935.83	276.77	277.91	-93.39	-1,535.37	-10,514.62	791.99	239.02	552.97	1.432 Level 3		
17,961.29	7,889.00	18,158.21	7,936.02	278.41	279.61	-93.40	-1,534.93	-10,578.01	791.84	235.62	556.22	1.424 Level 3, SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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	56.25	56.25					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	56.25	56.25	55.98	0.27	209.221		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	56.25	56.25	55.26	0.99	57.060		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	56.25	56.25	54.55	1.70	33.035		
400.00	400.00	400.32	400.30	1.21	1.20	91.77	-1.73	55.92	55.95	53.55	2.40	23.266		
500.00	500.00	500.40	500.24	1.57	1.54	97.14	-6.89	54.95	55.38	52.28	3.10	17.838		
543.93	543.93	544.23	543.93	1.73	1.69	100.66	-10.22	54.33	55.28	51.86	3.42	16.164	CC	
600.00	600.00	599.99	599.44	1.93	1.89	106.12	-15.42	53.35	55.53	51.71	3.82	14.533	ES	
700.00	700.00	698.86	697.57	2.29	2.27	118.05	-27.24	51.12	57.98	53.43	4.55	12.735		
800.00	800.00	796.78	794.30	2.64	2.67	131.16	-42.22	48.30	64.41	59.12	5.29	12.185		
900.00	900.00	893.55	889.31	3.00	3.09	143.28	-60.21	44.92	75.88	69.87	6.00	12.641		
1,000.00	999.98	989.33	982.70	3.34	3.54	-49.00	-81.11	40.98	91.38	84.70	6.68	13.676		
1,100.00	1,099.84	1,084.47	1,074.70	3.68	4.02	-42.71	-104.90	36.51	108.83	101.49	7.34	14.831		
1,200.00	1,199.45	1,178.97	1,165.24	4.01	4.54	-38.44	-131.48	31.50	127.37	119.38	8.00	15.932		
1,300.00	1,298.70	1,275.38	1,256.83	4.36	5.10	-35.50	-161.08	25.93	146.06	137.36	8.70	16.796		
1,303.95	1,302.61	1,279.26	1,260.51	4.38	5.12	-35.41	-162.28	25.71	146.75	138.03	8.72	16.821		
1,400.00	1,397.71	1,373.70	1,350.14	4.73	5.69	-33.69	-191.52	20.20	163.72	154.28	9.44	17.344		
1,500.00	1,496.72	1,472.01	1,443.44	5.11	6.28	-32.24	-221.96	14.48	181.50	171.30	10.19	17.804		
1,600.00	1,595.72	1,570.32	1,536.75	5.49	6.89	-31.05	-252.39	8.75	199.37	188.42	10.95	18.200		
1,700.00	1,694.73	1,668.63	1,630.06	5.89	7.50	-30.05	-282.83	3.02	217.32	205.60	11.72	18.543		
1,800.00	1,793.74	1,766.95	1,723.36	6.28	8.11	-29.21	-313.27	-2.71	235.31	222.83	12.49	18.843		
1,900.00	1,892.75	1,865.26	1,816.67	6.69	8.73	-28.49	-343.71	-8.44	253.35	240.09	13.26	19.107		
2,000.00	1,991.75	1,963.57	1,909.97	7.09	9.35	-27.86	-374.15	-14.17	271.43	257.40	14.03	19.341		
2,100.00	2,090.76	2,061.88	2,003.28	7.50	9.97	-27.31	-404.59	-19.90	289.53	274.72	14.81	19.550		
2,200.00	2,189.77	2,160.20	2,096.59	7.91	10.59	-26.82	-435.02	-25.63	307.66	292.07	15.59	19.737		
2,300.00	2,288.78	2,258.51	2,189.89	8.33	11.22	-26.39	-465.46	-31.36	325.80	309.43	16.37	19.906		
2,400.00	2,387.78	2,356.82	2,283.20	8.74	11.84	-26.01	-495.90	-37.08	343.96	326.81	17.15	20.059		
2,500.00	2,486.79	2,455.13	2,376.51	9.16	12.47	-25.66	-526.34	-42.81	362.13	344.20	17.93	20.197		
2,600.00	2,585.80	2,553.45	2,469.81	9.58	13.10	-25.35	-556.78	-48.54	380.32	361.60	18.71	20.324		
2,700.00	2,684.81	2,651.76	2,563.12	10.00	13.73	-25.06	-587.21	-54.27	398.51	379.01	19.50	20.440		
2,800.00	2,783.82	2,750.07	2,656.42	10.42	14.36	-24.80	-617.65	-60.00	416.71	396.43	20.28	20.547		
2,900.00	2,882.82	2,848.38	2,749.73	10.84	14.99	-24.57	-648.09	-65.73	434.92	413.86	21.07	20.645		
3,000.00	2,981.83	2,946.70	2,843.04	11.27	15.62	-24.35	-678.53	-71.46	453.14	431.29	21.85	20.736		
3,100.00	3,080.84	3,045.01	2,936.34	11.69	16.25	-24.14	-708.97	-77.19	471.37	448.73	22.64	20.821		
3,200.00	3,179.85	3,143.32	3,029.65	12.11	16.88	-23.96	-739.41	-82.91	489.59	466.17	23.43	20.899		
3,300.00	3,278.85	3,241.63	3,122.95	12.54	17.51	-23.78	-769.84	-88.64	507.83	483.61	24.21	20.972		
3,400.00	3,377.86	3,339.95	3,216.26	12.96	18.14	-23.62	-800.28	-94.37	526.07	501.06	25.00	21.041		
3,500.00	3,476.87	3,438.26	3,309.57	13.39	18.78	-23.47	-830.72	-100.10	544.31	518.52	25.79	21.105		
3,600.00	3,575.88	3,536.57	3,402.87	13.82	19.41	-23.33	-861.16	-105.83	562.55	535.97	26.58	21.165		
3,700.00	3,674.88	3,634.88	3,496.18	14.24	20.04	-23.20	-891.60	-111.56	580.80	553.43	27.37	21.221		
3,800.00	3,773.89	3,733.19	3,589.48	14.67	20.67	-23.07	-922.03	-117.29	599.05	570.89	28.16	21.274		
3,900.00	3,872.90	3,831.51	3,682.79	15.10	21.31	-22.96	-952.47	-123.02	617.30	588.35	28.95	21.324		
4,000.00	3,971.91	3,929.82	3,776.10	15.53	21.94	-22.85	-982.91	-128.75	635.56	605.82	29.74	21.372		
4,100.00	4,070.91	4,028.13	3,869.40	15.96	22.58	-22.74	-1,013.35	-134.47	653.82	623.29	30.53	21.416		
4,200.00	4,169.92	4,126.44	3,962.71	16.39	23.21	-22.65	-1,043.79	-140.20	672.08	640.76	31.32	21.459		
4,300.00	4,268.93	4,224.76	4,056.02	16.81	23.84	-22.55	-1,074.23	-145.93	690.34	658.23	32.11	21.499		
4,400.00	4,367.94	4,323.07	4,149.32	17.24	24.48	-22.46	-1,104.66	-151.66	708.60	675.70	32.90	21.537		
4,500.00	4,466.94	4,421.38	4,242.63	17.67	25.11	-22.38	-1,135.10	-157.39	726.87	693.17	33.69	21.574		
4,600.00	4,565.95	4,519.69	4,335.93	18.10	25.75	-22.30	-1,165.54	-163.12	745.13	710.65	34.48	21.608		
4,700.00	4,664.96	4,618.01	4,429.24	18.53	26.38	-22.22	-1,195.98	-168.85	763.40	728.12	35.28	21.641		
4,800.00	4,763.97	4,716.32	4,522.55	18.96	27.01	-22.15	-1,226.42	-174.58	781.67	745.60	36.07	21.673		
4,900.00	4,862.97	4,814.63	4,615.85	19.39	27.65	-22.08	-1,256.86	-180.30	799.94	763.08	36.86	21.703		

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 5-6-8
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 5-6-8	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	4,961.98	4,912.94	4,709.16	19.82	28.28	-22.02	-1,287.29	-186.03	818.21	780.56	37.65	21.731		
5,100.00	5,060.99	5,011.26	4,802.46	20.25	28.92	-21.95	-1,317.73	-191.76	836.48	798.04	38.44	21.759		
5,200.00	5,160.00	5,109.57	4,895.77	20.68	29.55	-21.89	-1,348.17	-197.49	854.75	815.52	39.24	21.785		
5,300.00	5,259.00	5,207.88	4,989.08	21.11	30.19	-21.84	-1,378.61	-203.22	873.03	833.00	40.03	21.810		
5,400.00	5,358.01	5,306.19	5,082.38	21.55	30.82	-21.78	-1,409.05	-208.95	891.30	850.48	40.82	21.835		
5,500.00	5,457.02	5,404.51	5,175.69	21.98	31.46	-21.73	-1,439.48	-214.68	909.58	867.96	41.61	21.858		
5,600.00	5,556.03	5,502.82	5,268.99	22.41	32.09	-21.68	-1,469.92	-220.41	927.85	885.45	42.41	21.880		
5,700.00	5,655.03	5,601.13	5,362.30	22.84	32.73	-21.63	-1,500.36	-226.14	946.13	902.93	43.20	21.902		
5,800.00	5,754.04	5,700.56	5,455.61	23.27	33.37	-21.58	-1,530.80	-231.86	964.41	920.41	44.00	21.920		
5,900.00	5,853.05	5,797.76	5,548.91	23.70	34.00	-21.53	-1,561.24	-237.59	982.69	937.90	44.79	21.942		
6,000.00	5,952.06	5,896.07	5,642.22	24.13	34.63	-21.49	-1,591.68	-243.32	1,000.96	955.38	45.58	21.961		
6,100.00	6,051.06	6,005.62	5,735.53	24.56	35.34	-21.45	-1,622.11	-249.05	1,019.24	972.82	46.42	21.957		
6,200.00	6,150.07	6,107.31	5,828.83	25.00	36.00	-21.41	-1,652.55	-254.78	1,037.52	990.29	47.23	21.968		
6,300.00	6,249.08	6,208.99	5,922.14	25.43	36.66	-21.37	-1,682.99	-260.51	1,055.80	1,007.77	48.04	21.979		
6,400.00	6,348.09	6,289.32	6,015.44	25.86	37.17	-21.33	-1,713.43	-266.24	1,074.08	1,025.33	48.75	22.031		
6,500.00	6,447.09	6,387.63	6,108.75	26.29	37.81	-21.29	-1,743.87	-271.97	1,092.36	1,042.82	49.55	22.047		
6,600.00	6,546.10	6,485.94	6,202.06	26.72	38.45	-21.26	-1,774.30	-277.69	1,110.65	1,060.31	50.34	22.063		
6,700.00	6,645.11	6,584.26	6,295.36	27.15	39.08	-21.22	-1,804.74	-283.42	1,128.93	1,077.79	51.13	22.078		
6,800.00	6,744.12	6,686.13	6,392.05	27.59	39.74	-21.19	-1,836.27	-289.36	1,147.20	1,095.24	51.96	22.079		
6,900.00	6,843.12	6,849.91	6,549.03	28.02	40.72	-21.18	-1,882.10	-297.98	1,162.41	1,109.21	53.21	21.847		
6,940.67	6,883.39	6,917.24	6,614.29	28.19	41.10	-21.20	-1,898.37	-301.04	1,167.00	1,113.32	53.67	21.742		
7,000.00	6,942.21	7,015.94	6,710.62	28.45	41.61	-21.28	-1,919.48	-305.02	1,172.58	1,118.27	54.30	21.593		
7,100.00	7,041.68	7,183.21	6,875.37	28.85	42.36	-21.39	-1,947.78	-310.34	1,180.01	1,124.80	55.21	21.373		
7,200.00	7,141.44	7,351.33	7,042.36	29.22	42.98	-21.46	-1,966.65	-313.90	1,184.95	1,129.02	55.92	21.190		
7,300.00	7,241.39	7,519.95	7,210.70	29.56	43.47	-21.49	-1,975.88	-315.63	1,187.35	1,130.92	56.43	21.042		
7,344.62	7,286.00	7,595.26	7,286.00	29.69	43.64	-179.86	-1,976.85	-315.82	1,187.60	1,131.03	56.57	20.992		
7,374.62	7,316.00	7,625.26	7,316.00	29.78	43.70	-179.86	-1,976.85	-315.82	1,187.60	1,130.85	56.75	20.927		
7,400.00	7,341.37	7,650.75	7,341.48	29.85	43.75	-90.11	-1,976.85	-316.38	1,187.60	1,130.70	56.91	20.870		
7,450.00	7,391.17	7,700.96	7,391.48	30.02	43.86	-90.11	-1,976.83	-320.81	1,187.60	1,130.36	57.24	20.748		
7,500.00	7,440.39	7,751.17	7,440.90	30.19	43.98	-90.11	-1,976.79	-329.59	1,187.60	1,130.01	57.59	20.621		
7,550.00	7,488.66	7,801.37	7,489.35	30.37	44.11	-90.10	-1,976.73	-342.67	1,187.60	1,129.63	57.97	20.487		
7,600.00	7,535.62	7,851.57	7,536.47	30.56	44.25	-90.10	-1,976.66	-359.93	1,187.60	1,129.23	58.36	20.348		
7,650.00	7,580.90	7,901.76	7,581.90	30.76	44.39	-90.10	-1,976.56	-381.24	1,187.59	1,128.81	58.78	20.202		
7,700.00	7,624.18	7,951.94	7,625.27	30.97	44.53	-90.09	-1,976.45	-406.45	1,187.59	1,128.36	59.23	20.049		
7,750.00	7,665.10	8,002.12	7,666.27	31.18	44.68	-90.09	-1,976.32	-435.34	1,187.59	1,127.87	59.72	19.886		
7,800.00	7,703.37	8,052.28	7,704.58	31.40	44.84	-90.08	-1,976.18	-467.70	1,187.58	1,127.33	60.25	19.711		
7,850.00	7,738.70	8,102.43	7,739.90	31.64	45.00	-90.07	-1,976.02	-503.27	1,187.57	1,126.74	60.83	19.522		
7,900.00	7,770.80	8,152.56	7,771.97	31.90	45.17	-90.07	-1,975.85	-541.79	1,187.57	1,126.09	61.48	19.317		
7,950.00	7,799.45	8,202.68	7,800.54	32.18	45.34	-90.06	-1,975.67	-582.95	1,187.56	1,125.36	62.20	19.093		
8,000.00	7,824.41	8,252.79	7,825.40	32.49	45.53	-90.05	-1,975.47	-626.43	1,187.56	1,124.56	63.00	18.850		
8,050.00	7,845.51	8,302.87	7,846.36	32.83	45.73	-90.04	-1,975.27	-671.91	1,187.55	1,123.66	63.89	18.588		
8,100.00	7,862.58	8,352.95	7,863.27	33.22	45.95	-90.03	-1,975.06	-719.02	1,187.54	1,122.68	64.87	18.308		
8,150.00	7,875.49	8,403.00	7,875.99	33.65	46.19	-90.02	-1,974.85	-767.41	1,187.53	1,121.60	65.93	18.012		
8,200.00	7,884.14	8,453.03	7,884.45	34.13	46.44	-90.01	-1,974.63	-816.71	1,187.53	1,120.45	67.08	17.703		
8,250.00	7,888.47	8,503.05	7,888.57	34.65	46.72	-90.00	-1,974.41	-866.54	1,187.52	1,119.22	68.30	17.386		
8,274.69	7,889.00	8,527.74	7,889.00	34.93	46.86	-90.00	-1,974.30	-891.23	1,187.52	1,118.59	68.93	17.228		
8,300.00	7,889.00	8,553.05	7,889.00	35.22	47.02	-90.00	-1,974.19	-916.54	1,187.51	1,117.91	69.60	17.062		
8,400.00	7,889.00	8,653.05	7,889.00	36.48	47.70	-90.00	-1,973.74	-1,016.53	1,187.50	1,115.09	72.41	16.399		
8,500.00	7,889.00	8,753.05	7,889.00	37.92	48.51	-90.00	-1,973.30	-1,116.53	1,187.48	1,111.99	75.49	15.729		
8,600.00	7,889.00	8,853.05	7,889.00	39.49	49.44	-90.00	-1,972.86	-1,216.53	1,187.47	1,108.64	78.82	15.065		
8,700.00	7,888.99	8,953.05	7,889.00	41.20	50.50	-90.00	-1,972.41	-1,316.53	1,187.45	1,105.08	82.37	14.416		
8,800.00	7,888.99	9,053.04	7,888.99	43.01	51.71	-90.00	-1,971.97	-1,416.52	1,187.44	1,101.33	86.11	13.790		

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 5-6-8
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 5-6-8	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	7,888.99	9,153.04	7,888.99	44.92	53.04	-90.00	-1,971.53	-1,516.52	1,187.43	1,097.41	90.02	13.191		
9,000.00	7,888.99	9,253.04	7,888.99	46.91	54.50	-90.00	-1,971.09	-1,616.52	1,187.41	1,093.35	94.07	12.623		
9,100.00	7,888.99	9,353.04	7,888.99	48.97	56.08	-90.00	-1,970.64	-1,716.52	1,187.40	1,089.16	98.25	12.086		
9,200.00	7,888.99	9,453.04	7,888.99	51.09	57.77	-90.00	-1,970.20	-1,816.51	1,187.39	1,084.85	102.54	11.580		
9,300.00	7,888.99	9,553.04	7,888.99	53.27	59.56	-90.00	-1,969.76	-1,916.51	1,187.38	1,080.45	106.93	11.105		
9,400.00	7,888.99	9,653.03	7,888.99	55.49	61.43	-90.00	-1,969.32	-2,016.51	1,187.37	1,075.96	111.40	10.658		
9,500.00	7,888.99	9,753.03	7,888.99	57.75	63.38	-90.00	-1,968.88	-2,116.50	1,187.35	1,071.40	115.96	10.240		
9,600.00	7,888.99	9,853.03	7,888.99	60.05	65.40	-90.00	-1,968.44	-2,216.50	1,187.34	1,066.76	120.58	9.847		
9,700.00	7,888.98	9,953.03	7,888.98	62.38	67.48	-90.00	-1,967.99	-2,316.50	1,187.33	1,062.07	125.26	9.479		
9,800.00	7,888.98	10,053.03	7,888.98	64.74	69.61	-90.00	-1,967.55	-2,416.50	1,187.32	1,057.32	130.00	9.133		
9,900.00	7,888.98	10,153.03	7,888.98	67.13	71.78	-90.00	-1,967.11	-2,516.49	1,187.31	1,052.53	134.79	8.809		
10,000.00	7,888.98	10,253.02	7,888.98	69.54	74.00	-90.00	-1,966.67	-2,616.49	1,187.30	1,047.69	139.62	8.504		
10,100.00	7,888.98	10,353.02	7,888.98	71.96	76.26	-90.00	-1,966.23	-2,716.49	1,187.29	1,042.81	144.48	8.217		
10,200.00	7,888.98	10,453.02	7,888.98	74.41	78.54	-90.00	-1,965.79	-2,816.49	1,187.28	1,037.90	149.39	7.948		
10,300.00	7,888.98	10,553.02	7,888.98	76.87	80.86	-90.00	-1,965.35	-2,916.48	1,187.28	1,032.95	154.32	7.693		
10,400.00	7,888.98	10,653.02	7,888.98	79.35	83.20	-90.00	-1,964.91	-3,016.48	1,187.27	1,027.98	159.29	7.454		
10,500.00	7,888.98	10,753.02	7,888.98	81.84	85.57	-90.00	-1,964.47	-3,116.48	1,187.26	1,022.98	164.28	7.227		
10,600.00	7,888.98	10,853.01	7,888.98	84.35	87.96	-90.00	-1,964.03	-3,216.48	1,187.25	1,017.96	169.29	7.013		
10,700.00	7,888.98	10,953.01	7,888.98	86.86	90.37	-90.00	-1,963.59	-3,316.47	1,187.24	1,012.91	174.33	6.810		
10,800.00	7,888.98	11,053.01	7,888.98	89.39	92.80	-90.00	-1,963.15	-3,416.47	1,187.24	1,007.85	179.39	6.618		
10,900.00	7,888.98	11,153.01	7,888.98	91.93	95.24	-90.00	-1,962.71	-3,516.47	1,187.23	1,002.76	184.46	6.436		
11,000.00	7,888.97	11,253.01	7,888.98	94.47	97.70	-90.00	-1,962.27	-3,616.47	1,187.22	997.67	189.56	6.263		
11,100.00	7,888.97	11,353.01	7,888.98	97.02	100.17	-90.00	-1,961.83	-3,716.46	1,187.22	992.55	194.66	6.099		
11,200.00	7,888.97	11,453.00	7,888.98	99.58	102.65	-90.00	-1,961.39	-3,816.46	1,187.21	987.42	199.79	5.942		
11,300.00	7,888.97	11,553.00	7,888.97	102.15	105.15	-90.00	-1,960.95	-3,916.46	1,187.20	982.28	204.92	5.793		
11,400.00	7,888.97	11,653.00	7,888.97	104.72	107.65	-90.00	-1,960.51	-4,016.45	1,187.20	977.13	210.07	5.651		
11,500.00	7,888.97	11,753.00	7,888.97	107.30	110.17	-90.00	-1,960.07	-4,116.45	1,187.19	971.96	215.23	5.516		
11,600.00	7,888.97	11,853.00	7,888.97	109.88	112.69	-90.00	-1,959.63	-4,216.45	1,187.19	966.79	220.40	5.386		
11,700.00	7,888.97	11,953.00	7,888.97	112.47	115.22	-90.00	-1,959.19	-4,316.45	1,187.18	961.60	225.58	5.263		
11,800.00	7,888.97	12,052.99	7,888.97	115.06	117.76	-90.00	-1,958.76	-4,416.44	1,187.18	956.41	230.77	5.144		
11,900.00	7,888.97	12,152.99	7,888.97	117.66	120.31	-90.00	-1,958.32	-4,516.44	1,187.18	951.21	235.97	5.031		
12,000.00	7,888.97	12,252.99	7,888.97	120.26	122.86	-90.00	-1,957.88	-4,616.44	1,187.17	946.00	241.18	4.922		
12,100.00	7,888.97	12,352.99	7,888.97	122.87	125.42	-90.00	-1,957.44	-4,716.44	1,187.17	940.78	246.39	4.818		
12,200.00	7,888.97	12,452.99	7,888.97	125.48	127.99	-90.00	-1,957.00	-4,816.43	1,187.17	935.55	251.61	4.718		
12,300.00	7,888.97	12,552.99	7,888.97	128.09	130.56	-90.00	-1,956.56	-4,916.43	1,187.16	930.32	256.84	4.622		
12,400.00	7,888.97	12,652.98	7,888.97	130.70	133.14	-90.00	-1,956.13	-5,016.43	1,187.16	925.09	262.07	4.530		
12,500.00	7,888.97	12,752.98	7,888.97	133.32	135.72	-90.00	-1,955.69	-5,116.43	1,187.16	919.85	267.31	4.441		
12,600.00	7,888.97	12,852.98	7,888.97	135.94	138.30	-90.00	-1,955.25	-5,216.42	1,187.16	914.60	272.56	4.356		
12,700.00	7,888.97	12,952.98	7,888.97	138.57	140.89	-90.00	-1,954.81	-5,316.42	1,187.15	909.35	277.81	4.273		
12,800.00	7,888.97	13,052.98	7,888.97	141.19	143.49	-90.00	-1,954.38	-5,416.42	1,187.15	904.09	283.06	4.194		
12,900.00	7,888.97	13,152.98	7,888.97	143.82	146.09	-90.00	-1,953.94	-5,516.42	1,187.15	898.83	288.32	4.117		
13,000.00	7,888.97	13,252.97	7,888.97	146.45	148.69	-90.00	-1,953.50	-5,616.41	1,187.15	893.56	293.59	4.044		
13,100.00	7,888.97	13,352.97	7,888.97	149.09	151.29	-90.00	-1,953.07	-5,716.41	1,187.15	888.29	298.86	3.972		
13,157.01	7,888.97	13,409.98	7,888.97	150.59	152.78	-90.00	-1,952.62	-5,773.42	1,187.15	885.29	301.86	3.933		
13,200.00	7,888.97	13,452.97	7,888.97	151.72	153.90	-90.00	-1,952.63	-5,816.41	1,187.15	883.02	304.13	3.903		
13,300.00	7,888.97	13,552.97	7,888.97	154.36	156.51	-90.00	-1,952.19	-5,916.41	1,187.15	877.74	309.41	3.837		
13,400.00	7,888.97	13,652.97	7,888.97	157.00	159.13	-90.00	-1,951.76	-6,016.40	1,187.15	872.46	314.69	3.772		
13,500.00	7,888.97	13,752.97	7,888.97	159.64	161.74	-90.00	-1,951.32	-6,116.40	1,187.15	867.18	319.97	3.710		
13,600.00	7,888.97	13,852.96	7,888.97	162.28	164.36	-90.00	-1,950.89	-6,216.40	1,187.16	861.90	325.26	3.650		
13,700.00	7,888.97	13,952.96	7,888.97	164.93	166.98	-90.00	-1,950.45	-6,316.39	1,187.16	856.61	330.55	3.591		
13,800.00	7,888.97	14,052.96	7,888.97	167.57	169.61	-90.00	-1,950.01	-6,416.39	1,187.16	851.32	335.84	3.535		
13,900.00	7,888.97	14,152.96	7,888.97	170.22	172.23	-90.00	-1,949.58	-6,516.39	1,187.16	846.02	341.14	3.480		

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 5-6-8
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 5-6-8	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	7,888.97	14,252.96	7,888.97	172.87	174.86	-90.00	-1,949.14	-6,616.39	1,187.16	840.73	346.44	3.427		
14,100.00	7,888.97	14,352.96	7,888.97	175.51	177.49	-90.00	-1,948.71	-6,716.38	1,187.17	835.43	351.74	3.375		
14,200.00	7,888.97	14,452.96	7,888.97	178.16	180.12	-90.00	-1,948.27	-6,816.38	1,187.17	830.13	357.04	3.325		
14,300.00	7,888.97	14,552.95	7,888.97	180.82	182.76	-90.00	-1,947.84	-6,916.38	1,187.17	824.83	362.35	3.276		
14,400.00	7,888.97	14,652.95	7,888.97	183.47	185.39	-90.00	-1,947.40	-7,016.38	1,187.18	819.52	367.66	3.229		
14,500.00	7,888.97	14,752.95	7,888.97	186.12	188.03	-90.00	-1,946.97	-7,116.37	1,187.18	814.21	372.97	3.183		
14,600.00	7,888.97	14,852.95	7,888.97	188.78	190.67	-90.00	-1,946.53	-7,216.37	1,187.19	808.91	378.28	3.138		
14,700.00	7,888.97	14,952.95	7,888.97	191.43	193.31	-90.00	-1,946.10	-7,316.37	1,187.19	803.60	383.59	3.095		
14,800.00	7,888.97	15,052.95	7,888.97	194.09	195.95	-90.00	-1,945.66	-7,416.37	1,187.20	798.29	388.91	3.053		
14,900.00	7,888.97	15,152.94	7,888.97	196.75	198.60	-90.00	-1,945.23	-7,516.36	1,187.20	792.97	394.23	3.011		
15,000.00	7,888.97	15,252.94	7,888.98	199.41	201.24	-90.00	-1,944.80	-7,616.36	1,187.21	787.66	399.55	2.971		
15,100.00	7,888.97	15,352.94	7,888.98	202.07	203.89	-90.00	-1,944.36	-7,716.36	1,187.21	782.34	404.87	2.932		
15,200.00	7,888.97	15,452.94	7,888.98	204.73	206.54	-90.00	-1,943.93	-7,816.36	1,187.22	777.03	410.19	2.894		
15,300.00	7,888.98	15,552.94	7,888.98	207.39	209.19	-90.00	-1,943.49	-7,916.35	1,187.23	771.71	415.52	2.857		
15,400.00	7,888.98	15,652.94	7,888.98	210.05	211.84	-90.00	-1,943.06	-8,016.35	1,187.23	766.39	420.84	2.821		
15,500.00	7,888.98	15,752.93	7,888.98	212.71	214.49	-90.00	-1,942.63	-8,116.35	1,187.24	761.07	426.17	2.786		
15,600.00	7,888.98	15,852.93	7,888.98	215.37	217.14	-90.00	-1,942.19	-8,216.35	1,187.25	755.75	431.50	2.751		
15,700.00	7,888.98	15,952.93	7,888.98	218.04	219.79	-90.00	-1,941.76	-8,316.34	1,187.26	750.43	436.83	2.718		
15,800.00	7,888.98	16,052.93	7,888.98	220.70	222.45	-90.00	-1,941.33	-8,416.34	1,187.26	745.10	442.16	2.685		
15,900.00	7,888.98	16,152.93	7,888.98	223.37	225.10	-90.00	-1,940.90	-8,516.34	1,187.27	739.78	447.49	2.653		
16,000.00	7,888.98	16,252.93	7,888.98	226.03	227.76	-90.00	-1,940.46	-8,616.33	1,187.28	734.45	452.83	2.622		
16,100.00	7,888.98	16,352.92	7,888.98	228.70	230.41	-90.00	-1,940.03	-8,716.33	1,187.29	729.13	458.16	2.591		
16,200.00	7,888.98	16,452.92	7,888.98	231.37	233.07	-90.00	-1,939.60	-8,816.33	1,187.30	723.80	463.50	2.562		
16,300.00	7,888.98	16,552.92	7,888.98	234.03	235.73	-90.00	-1,939.17	-8,916.33	1,187.31	718.47	468.84	2.532		
16,400.00	7,888.98	16,652.92	7,888.98	236.70	238.39	-90.00	-1,938.73	-9,016.32	1,187.32	713.14	474.18	2.504		
16,500.00	7,888.98	16,752.92	7,888.99	239.37	241.05	-90.00	-1,938.30	-9,116.32	1,187.33	707.82	479.51	2.476		
16,600.00	7,888.98	16,852.92	7,888.99	242.04	243.71	-90.00	-1,937.87	-9,216.32	1,187.34	702.49	484.85	2.449		
16,700.00	7,888.99	16,952.91	7,888.99	244.71	246.37	-90.00	-1,937.44	-9,316.32	1,187.35	697.16	490.20	2.422		
16,800.00	7,888.99	17,052.91	7,888.99	247.38	249.03	-90.00	-1,937.01	-9,416.31	1,187.36	691.82	495.54	2.396		
16,900.00	7,888.99	17,152.91	7,888.99	250.05	251.70	-90.00	-1,936.58	-9,516.31	1,187.37	686.49	500.88	2.371		
17,000.00	7,888.99	17,252.91	7,888.99	252.72	254.36	-90.00	-1,936.14	-9,616.31	1,187.39	681.16	506.22	2.346		
17,100.00	7,888.99	17,352.91	7,888.99	255.39	257.03	-90.00	-1,935.71	-9,716.31	1,187.40	675.83	511.57	2.321		
17,200.00	7,888.99	17,452.91	7,888.99	258.06	259.69	-90.00	-1,935.28	-9,816.30	1,187.41	670.50	516.92	2.297		
17,300.00	7,888.99	17,552.90	7,888.99	260.73	262.36	-90.00	-1,934.85	-9,916.30	1,187.42	665.16	522.26	2.274		
17,400.00	7,888.99	17,652.90	7,888.99	263.40	265.02	-90.00	-1,934.42	-10,016.30	1,187.44	659.83	527.61	2.251		
17,500.00	7,888.99	17,752.90	7,888.99	266.07	267.69	-90.00	-1,933.99	-10,116.30	1,187.45	654.49	532.96	2.228		
17,600.00	7,889.00	17,852.90	7,889.00	268.75	270.36	-90.00	-1,933.56	-10,216.29	1,187.46	649.16	538.30	2.206		
17,700.00	7,889.00	17,952.90	7,889.00	271.42	273.02	-90.00	-1,933.13	-10,316.29	1,187.48	643.83	543.65	2.184		
17,800.00	7,889.00	18,052.90	7,889.00	274.09	275.69	-90.00	-1,932.70	-10,416.29	1,187.49	638.49	549.00	2.163		
17,900.00	7,889.00	18,152.89	7,889.00	276.77	278.36	-90.00	-1,932.27	-10,516.29	1,187.51	633.15	554.35	2.142		
17,902.72	7,889.00	18,155.61	7,889.00	276.84	278.43	-90.00	-1,932.26	-10,519.00	1,187.51	633.01	554.50	2.142		
17,961.29	7,889.00	18,212.39	7,889.00	278.41	279.95	-90.00	-1,932.01	-10,575.78	1,187.52	629.89	557.62	2.130 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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		
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	200.38	200.36	0.49	0.48	91.36	-1.73	72.84	72.86	71.88	0.98	74.642		
300.00	300.00	300.51	300.34	0.85	0.85	95.49	-6.92	71.98	72.32	70.62	1.69	42.704		
360.92	360.92	361.29	360.92	1.07	1.07	99.37	-11.75	71.19	72.15	70.01	2.14	33.688 CC		
400.00	400.00	400.15	399.60	1.21	1.22	102.39	-15.50	70.57	72.25	69.82	2.43	29.746 ES		
500.00	500.00	499.07	497.78	1.57	1.62	111.76	-27.38	68.61	73.90	70.72	3.18	23.224		
600.00	600.00	597.04	594.55	1.93	2.04	122.69	-42.44	66.12	78.76	74.81	3.94	19.964		
700.00	700.00	693.85	689.61	2.29	2.48	133.78	-60.51	63.14	88.07	83.37	4.70	18.743		
800.00	800.00	789.30	782.67	2.64	2.95	143.76	-81.43	59.69	102.44	97.01	5.43	18.871		
900.00	900.00	883.22	873.50	3.00	3.45	152.01	-104.98	55.80	121.81	115.67	6.13	19.870		
1,000.00	999.98	975.92	962.34	3.34	3.98	-43.21	-131.09	51.49	144.56	137.77	6.79	21.285		
1,100.00	1,099.84	1,067.83	1,049.53	3.68	4.54	-38.75	-159.77	46.76	168.71	161.27	7.44	22.681		
1,200.00	1,199.45	1,158.98	1,135.03	4.01	5.13	-35.59	-190.93	41.61	193.63	185.54	8.09	23.932		
1,300.00	1,298.70	1,252.67	1,221.98	4.36	5.77	-33.29	-225.34	35.94	218.61	209.82	8.79	24.875		
1,303.95	1,302.61	1,256.50	1,225.53	4.38	5.80	-33.21	-226.76	35.70	219.56	210.74	8.82	24.900		
1,400.00	1,397.71	1,349.59	1,311.80	4.73	6.45	-31.83	-261.27	30.01	242.61	233.07	9.54	25.424		
1,500.00	1,496.72	1,446.50	1,401.61	5.11	7.14	-30.65	-297.19	24.08	266.73	256.42	10.31	25.872		
1,600.00	1,595.72	1,543.41	1,491.43	5.49	7.83	-29.66	-333.12	18.15	290.93	279.85	11.08	26.254		
1,700.00	1,694.73	1,640.33	1,581.24	5.89	8.53	-28.82	-369.04	12.22	315.20	303.35	11.86	26.582		
1,800.00	1,793.74	1,737.24	1,671.05	6.28	9.22	-28.10	-404.97	6.29	339.53	326.89	12.64	26.866		
1,900.00	1,892.75	1,834.16	1,760.87	6.69	9.92	-27.48	-440.89	0.36	363.90	350.48	13.42	27.114		
2,000.00	1,991.75	1,931.07	1,850.68	7.09	10.62	-26.94	-476.82	-5.57	388.31	374.10	14.21	27.332		
2,100.00	2,090.76	2,027.98	1,940.50	7.50	11.33	-26.46	-512.74	-11.50	412.75	397.75	15.00	27.526		
2,200.00	2,189.77	2,124.90	2,030.31	7.91	12.03	-26.03	-548.67	-17.43	437.21	421.42	15.78	27.698		
2,300.00	2,288.78	2,221.81	2,120.12	8.33	12.73	-25.65	-584.59	-23.35	461.69	445.11	16.58	27.853		
2,400.00	2,387.78	2,318.73	2,209.94	8.74	13.44	-25.31	-620.51	-29.28	486.19	468.82	17.37	27.992		
2,500.00	2,486.79	2,415.64	2,299.75	9.16	14.15	-25.00	-656.44	-35.21	510.70	492.54	18.16	28.118		
2,600.00	2,585.80	2,512.55	2,389.57	9.58	14.85	-24.72	-692.36	-41.14	535.22	516.27	18.96	28.232		
2,700.00	2,684.81	2,609.47	2,479.38	10.00	15.56	-24.46	-728.29	-47.07	559.76	540.01	19.75	28.337		
2,800.00	2,783.82	2,706.38	2,569.19	10.42	16.27	-24.23	-764.21	-53.00	584.31	563.76	20.55	28.433		
2,900.00	2,882.82	2,803.30	2,659.01	10.84	16.98	-24.01	-800.14	-58.93	608.86	587.51	21.35	28.521		
3,000.00	2,981.83	2,900.21	2,748.82	11.27	17.69	-23.81	-836.06	-64.86	633.42	611.28	22.15	28.602		
3,100.00	3,080.84	2,997.12	2,838.64	11.69	18.40	-23.63	-871.99	-70.79	657.99	635.05	22.94	28.677		
3,200.00	3,179.85	3,094.04	2,928.45	12.11	19.10	-23.46	-907.91	-76.71	682.57	658.82	23.74	28.747		
3,300.00	3,278.85	3,190.95	3,018.27	12.54	19.81	-23.30	-943.84	-82.64	707.15	682.60	24.54	28.811		
3,400.00	3,377.86	3,287.87	3,108.08	12.96	20.52	-23.15	-979.76	-88.57	731.73	706.39	25.34	28.872		
3,500.00	3,476.87	3,384.78	3,197.89	13.39	21.23	-23.01	-1,015.69	-94.50	756.32	730.18	26.15	28.928		
3,600.00	3,575.88	3,481.69	3,287.71	13.82	21.94	-22.88	-1,051.61	-100.43	780.91	753.97	26.95	28.981		
3,700.00	3,674.88	3,578.61	3,377.52	14.24	22.65	-22.76	-1,087.54	-106.36	805.51	777.76	27.75	29.030		
3,800.00	3,773.89	3,675.52	3,467.34	14.67	23.36	-22.64	-1,123.46	-112.29	830.11	801.56	28.55	29.076		
3,900.00	3,872.90	3,772.44	3,557.15	15.10	24.08	-22.53	-1,159.39	-118.22	854.71	825.36	29.35	29.120		
4,000.00	3,971.91	3,869.35	3,646.96	15.53	24.79	-22.43	-1,195.31	-124.15	879.32	849.17	30.15	29.161		
4,100.00	4,070.91	3,966.26	3,736.78	15.96	25.50	-22.33	-1,231.24	-130.07	903.93	872.97	30.96	29.200		
4,200.00	4,169.92	4,063.18	3,826.59	16.39	26.21	-22.24	-1,267.16	-136.00	928.54	896.78	31.76	29.236		
4,300.00	4,268.93	4,160.09	3,916.41	16.81	26.92	-22.16	-1,303.09	-141.93	953.15	920.59	32.56	29.271		
4,400.00	4,367.94	4,257.00	4,006.22	17.24	27.63	-22.07	-1,339.01	-147.86	977.77	944.40	33.37	29.304		
4,500.00	4,466.94	4,353.92	4,096.03	17.67	28.34	-21.99	-1,374.93	-153.79	1,002.38	968.21	34.17	29.335		
4,600.00	4,565.95	4,450.83	4,185.85	18.10	29.05	-21.92	-1,410.86	-159.72	1,027.00	992.03	34.97	29.365		
4,700.00	4,664.96	4,547.75	4,275.66	18.53	29.76	-21.85	-1,446.78	-165.65	1,051.62	1,015.84	35.78	29.393		
4,800.00	4,763.97	4,644.66	4,365.48	18.96	30.47	-21.78	-1,482.71	-171.58	1,076.24	1,039.66	36.58	29.419		
4,900.00	4,862.97	4,741.57	4,455.29	19.39	31.19	-21.72	-1,518.63	-177.51	1,100.86	1,063.48	37.39	29.445		

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 5-6-8
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 5-6-8	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	4,961.98	4,838.49	4,545.10	19.82	31.90	-21.65	-1,554.56	-183.43	1,125.49	1,087.29	38.19	29.469		
5,100.00	5,060.99	4,935.40	4,634.92	20.25	32.61	-21.59	-1,590.48	-189.36	1,150.11	1,111.11	39.00	29.493		
5,200.00	5,160.00	5,032.32	4,724.73	20.68	33.32	-21.54	-1,626.41	-195.29	1,174.74	1,134.94	39.80	29.515		
5,300.00	5,259.00	5,129.23	4,814.55	21.11	34.03	-21.48	-1,662.33	-201.22	1,199.36	1,158.76	40.61	29.536		
5,400.00	5,358.01	5,226.14	4,904.36	21.55	34.74	-21.43	-1,698.26	-207.15	1,223.99	1,182.58	41.41	29.556		
5,500.00	5,457.02	5,323.06	4,994.18	21.98	35.46	-21.38	-1,734.18	-213.08	1,248.62	1,206.40	42.22	29.576		
5,600.00	5,556.03	5,419.97	5,083.99	22.41	36.17	-21.33	-1,770.11	-219.01	1,273.25	1,230.23	43.02	29.594		
5,700.00	5,655.03	5,516.89	5,173.80	22.84	36.88	-21.28	-1,806.03	-224.94	1,297.88	1,254.05	43.83	29.612		
5,800.00	5,754.04	5,613.80	5,263.62	23.27	37.59	-21.24	-1,841.96	-230.87	1,322.51	1,277.88	44.63	29.630		
5,900.00	5,853.05	5,710.71	5,353.43	23.70	38.30	-21.20	-1,877.88	-236.80	1,347.14	1,301.70	45.44	29.646		
6,000.00	5,952.06	5,807.63	5,443.25	24.13	39.01	-21.16	-1,913.81	-242.72	1,371.78	1,325.53	46.25	29.662		
6,100.00	6,051.06	5,904.54	5,533.06	24.56	39.73	-21.11	-1,949.73	-248.65	1,396.41	1,349.36	47.05	29.677		
6,200.00	6,150.07	6,001.46	5,622.87	25.00	40.44	-21.08	-1,985.66	-254.58	1,421.04	1,373.18	47.86	29.692		
6,300.00	6,249.08	6,101.63	5,712.69	25.43	41.17	-21.04	-2,021.58	-260.51	1,445.68	1,397.00	48.68	29.697		
6,400.00	6,348.09	6,195.28	5,802.50	25.86	41.86	-21.00	-2,057.51	-266.44	1,470.31	1,420.84	49.47	29.719		
6,500.00	6,447.09	6,307.80	5,892.32	26.29	42.69	-20.97	-2,093.43	-272.37	1,494.95	1,444.60	50.35	29.690		
6,600.00	6,546.10	6,389.11	5,982.13	26.72	43.29	-20.93	-2,129.35	-278.30	1,519.59	1,468.50	51.09	29.745		
6,700.00	6,645.11	6,486.03	6,071.94	27.15	44.00	-20.90	-2,165.28	-284.23	1,544.22	1,492.33	51.89	29.757		
6,800.00	6,744.12	6,582.09	6,265.43	27.59	45.41	-20.88	-2,235.09	-295.75	1,565.62	1,512.14	53.48	29.273		
6,900.00	6,843.12	6,680.44	6,473.50	28.02	46.68	-20.94	-2,293.43	-305.38	1,579.78	1,524.93	54.85	28.803		
6,940.67	6,883.39	6,697.54	6,560.37	28.19	47.14	-20.99	-2,312.92	-308.59	1,583.41	1,528.09	55.32	28.623		
7,000.00	6,942.21	7,128.13	6,688.72	28.45	47.73	-21.11	-2,336.65	-312.51	1,587.03	1,531.13	55.90	28.388		
7,100.00	7,041.68	7,349.10	6,907.94	28.85	48.54	-21.27	-2,363.57	-316.95	1,589.68	1,533.07	56.62	28.078		
7,200.00	7,141.44	7,570.14	7,128.68	29.22	49.10	-21.39	-2,373.76	-318.63	1,587.97	1,531.00	56.97	27.876		
7,300.00	7,241.39	7,682.74	7,241.18	29.56	49.31	-21.31	-2,373.84	-321.71	1,584.94	1,527.41	57.53	27.552		
7,342.00	7,283.39	7,724.01	7,282.04	29.68	49.39	-21.11	-2,373.81	-327.45	1,584.63	1,526.87	57.76	27.433		
7,344.62	7,286.00	7,726.55	7,284.54	29.69	49.40	-179.46	-2,373.81	-327.90	1,584.63	1,526.85	57.78	27.426		
7,374.62	7,316.00	7,755.36	7,312.74	29.78	49.46	-179.25	-2,373.79	-333.76	1,584.68	1,526.74	57.94	27.350		
7,400.00	7,341.37	7,779.36	7,335.98	29.85	49.51	-89.29	-2,373.76	-339.73	1,584.74	1,526.65	58.09	27.283		
7,450.00	7,391.17	7,826.01	7,380.36	30.02	49.62	-88.90	-2,373.70	-354.08	1,584.92	1,526.52	58.40	27.139		
7,500.00	7,440.39	7,871.89	7,422.72	30.19	49.73	-88.51	-2,373.62	-371.66	1,585.17	1,526.42	58.75	26.983		
7,550.00	7,488.66	7,917.05	7,462.92	30.37	49.85	-88.14	-2,373.53	-392.23	1,585.48	1,526.35	59.12	26.816		
7,600.00	7,535.62	7,961.57	7,500.83	30.56	49.96	-87.78	-2,373.43	-415.54	1,585.84	1,526.31	59.53	26.639		
7,650.00	7,580.90	8,005.50	7,536.36	30.76	50.08	-87.44	-2,373.32	-441.36	1,586.24	1,526.27	59.97	26.451		
7,700.00	7,624.18	8,048.89	7,569.41	30.97	50.20	-87.12	-2,373.20	-469.46	1,586.67	1,526.23	60.45	26.250		
7,750.00	7,665.10	8,091.79	7,599.91	31.18	50.32	-86.81	-2,373.07	-499.62	1,587.12	1,526.16	60.97	26.033		
7,800.00	7,703.37	8,134.27	7,627.79	31.40	50.45	-86.53	-2,372.93	-531.65	1,587.58	1,526.04	61.53	25.800		
7,850.00	7,738.70	8,176.37	7,653.01	31.64	50.58	-86.27	-2,372.78	-565.34	1,588.02	1,525.86	62.16	25.547		
7,900.00	7,770.80	8,218.12	7,675.52	31.90	50.72	-86.03	-2,372.63	-600.50	1,588.45	1,525.60	62.85	25.274		
7,950.00	7,799.45	8,259.59	7,695.28	32.18	50.86	-85.82	-2,372.47	-636.94	1,588.86	1,525.25	63.61	24.978		
8,000.00	7,824.41	8,300.80	7,712.26	32.49	51.00	-85.64	-2,372.31	-674.49	1,589.22	1,524.77	64.45	24.660		
8,050.00	7,845.51	8,341.80	7,726.43	32.83	51.16	-85.49	-2,372.14	-712.95	1,589.54	1,524.17	65.37	24.316		
8,100.00	7,862.58	8,382.63	7,737.77	33.22	51.32	-85.36	-2,371.97	-752.17	1,589.80	1,523.43	66.37	23.952		
8,150.00	7,875.49	8,423.33	7,746.26	33.65	51.49	-85.27	-2,371.80	-791.96	1,590.01	1,522.55	67.46	23.571		
8,200.00	7,884.14	8,463.94	7,751.90	34.13	51.68	-85.21	-2,371.62	-832.17	1,590.15	1,521.54	68.61	23.177		
8,250.00	7,888.47	8,504.48	7,754.68	34.65	51.87	-85.17	-2,371.45	-872.61	1,590.22	1,520.40	69.82	22.774		
8,274.69	7,889.00	8,524.72	7,755.00	34.93	51.97	-85.17	-2,371.36	-892.84	1,590.23	1,519.79	70.45	22.574		
8,300.00	7,889.00	8,550.03	7,755.00	35.22	52.10	-85.17	-2,371.25	-918.15	1,590.23	1,519.12	71.11	22.363		
8,400.00	7,889.00	8,650.03	7,755.00	36.48	52.68	-85.17	-2,370.81	-1,018.15	1,590.23	1,516.33	73.90	21.520		
8,500.00	7,889.00	8,750.03	7,755.00	37.92	53.35	-85.17	-2,370.38	-1,118.15	1,590.22	1,513.27	76.95	20.666		
8,600.00	7,889.00	8,850.03	7,755.00	39.49	54.11	-85.17	-2,369.94	-1,218.15	1,590.21	1,509.97	80.24	19.817		
8,700.00	7,888.99	8,950.03	7,755.00	41.20	54.99	-85.17	-2,369.51	-1,318.15	1,590.21	1,506.46	83.75	18.987		

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 5-6-8
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 5-6-8	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	7,888.99	9,050.03	7,755.00	43.01	55.98	-85.17	-2,369.08	-1,418.15	1,590.20	1,502.75	87.45	18.184		
8,900.00	7,888.99	9,150.03	7,755.00	44.92	57.10	-85.17	-2,368.64	-1,518.15	1,590.20	1,498.89	91.31	17.415		
9,000.00	7,888.99	9,250.03	7,755.00	46.91	58.33	-85.17	-2,368.21	-1,618.15	1,590.19	1,494.87	95.32	16.682		
9,100.00	7,888.99	9,350.03	7,755.00	48.97	59.69	-85.17	-2,367.77	-1,718.15	1,590.19	1,490.73	99.46	15.989		
9,200.00	7,888.99	9,450.03	7,755.00	51.09	61.16	-85.17	-2,367.34	-1,818.14	1,590.18	1,486.48	103.71	15.334		
9,300.00	7,888.99	9,550.03	7,755.00	53.27	62.73	-85.17	-2,366.90	-1,918.14	1,590.18	1,482.13	108.05	14.717		
9,400.00	7,888.99	9,650.03	7,755.00	55.49	64.41	-85.17	-2,366.47	-2,018.14	1,590.18	1,477.69	112.49	14.136		
9,500.00	7,888.99	9,750.03	7,755.00	57.75	66.18	-85.17	-2,366.04	-2,118.14	1,590.17	1,473.17	117.00	13.591		
9,600.00	7,888.99	9,850.03	7,755.00	60.05	68.03	-85.17	-2,365.60	-2,218.14	1,590.17	1,468.58	121.59	13.079		
9,700.00	7,888.98	9,950.03	7,755.00	62.38	69.95	-85.17	-2,365.17	-2,318.14	1,590.16	1,463.94	126.23	12.597		
9,800.00	7,888.98	10,050.03	7,755.00	64.74	71.94	-85.17	-2,364.73	-2,418.14	1,590.16	1,459.23	130.93	12.145		
9,900.00	7,888.98	10,150.03	7,755.00	67.13	74.00	-85.17	-2,364.30	-2,518.14	1,590.16	1,454.48	135.68	11.720		
10,000.00	7,888.98	10,250.03	7,755.00	69.54	76.10	-85.17	-2,363.86	-2,618.14	1,590.15	1,449.69	140.47	11.320		
10,100.00	7,888.98	10,350.03	7,755.00	71.96	78.25	-85.17	-2,363.43	-2,718.14	1,590.15	1,444.85	145.30	10.944		
10,200.00	7,888.98	10,450.03	7,755.00	74.41	80.44	-85.17	-2,363.00	-2,818.14	1,590.15	1,439.98	150.17	10.589		
10,300.00	7,888.98	10,550.03	7,755.00	76.87	82.67	-85.17	-2,362.56	-2,918.13	1,590.15	1,435.08	155.07	10.254		
10,400.00	7,888.98	10,650.03	7,755.00	79.35	84.94	-85.17	-2,362.13	-3,018.13	1,590.14	1,430.14	160.00	9.938		
10,500.00	7,888.98	10,750.03	7,755.00	81.84	87.23	-85.17	-2,361.69	-3,118.13	1,590.14	1,425.18	164.96	9.640		
10,600.00	7,888.98	10,850.03	7,755.00	84.35	89.56	-85.17	-2,361.26	-3,218.13	1,590.14	1,420.20	169.94	9.357		
10,700.00	7,888.98	10,950.03	7,755.00	86.86	91.90	-85.17	-2,360.82	-3,318.13	1,590.14	1,415.19	174.95	9.089		
10,800.00	7,888.98	11,050.03	7,755.00	89.39	94.27	-85.17	-2,360.39	-3,418.13	1,590.14	1,410.16	179.97	8.835		
10,900.00	7,888.98	11,150.03	7,755.00	91.93	96.66	-85.17	-2,359.95	-3,518.13	1,590.13	1,405.12	185.02	8.594		
11,000.00	7,888.97	11,250.03	7,754.99	94.47	99.07	-85.17	-2,359.52	-3,618.13	1,590.13	1,400.05	190.08	8.366		
11,100.00	7,888.97	11,350.03	7,754.99	97.02	101.50	-85.17	-2,359.09	-3,718.13	1,590.13	1,394.97	195.16	8.148		
11,200.00	7,888.97	11,450.03	7,754.99	99.58	103.94	-85.17	-2,358.65	-3,818.13	1,590.13	1,389.88	200.25	7.941		
11,300.00	7,888.97	11,550.03	7,754.99	102.15	106.39	-85.17	-2,358.22	-3,918.13	1,590.13	1,384.77	205.36	7.743		
11,400.00	7,888.97	11,650.03	7,754.99	104.72	108.86	-85.17	-2,357.78	-4,018.12	1,590.13	1,379.65	210.48	7.555		
11,500.00	7,888.97	11,750.03	7,754.99	107.30	111.34	-85.17	-2,357.35	-4,118.12	1,590.13	1,374.52	215.61	7.375		
11,600.00	7,888.97	11,850.03	7,754.99	109.88	113.83	-85.17	-2,356.91	-4,218.12	1,590.13	1,369.37	220.75	7.203		
11,700.00	7,888.97	11,950.03	7,754.99	112.47	116.33	-85.17	-2,356.48	-4,318.12	1,590.13	1,364.22	225.91	7.039		
11,796.05	7,888.97	12,046.08	7,754.99	114.96	118.74	-85.17	-2,356.06	-4,414.17	1,590.13	1,359.26	230.87	6.888		
11,800.00	7,888.97	12,050.03	7,754.99	115.06	118.84	-85.17	-2,356.05	-4,418.12	1,590.13	1,359.06	231.07	6.882		
11,900.00	7,888.97	12,150.03	7,754.99	117.66	121.36	-85.17	-2,355.61	-4,518.12	1,590.13	1,353.88	236.24	6.731		
12,000.00	7,888.97	12,250.03	7,754.99	120.26	123.89	-85.17	-2,355.18	-4,618.12	1,590.13	1,348.71	241.42	6.586		
12,100.00	7,888.97	12,350.03	7,754.99	122.87	126.43	-85.17	-2,354.74	-4,718.12	1,590.13	1,343.52	246.61	6.448		
12,200.00	7,888.97	12,450.03	7,754.99	125.48	128.97	-85.17	-2,354.31	-4,818.12	1,590.13	1,338.32	251.81	6.315		
12,300.00	7,888.97	12,550.03	7,754.99	128.09	131.52	-85.17	-2,353.87	-4,918.12	1,590.13	1,333.12	257.01	6.187		
12,400.00	7,888.97	12,650.03	7,754.99	130.70	134.07	-85.17	-2,353.44	-5,018.11	1,590.13	1,327.91	262.22	6.064		
12,500.00	7,888.97	12,750.03	7,754.99	133.32	136.63	-85.17	-2,353.01	-5,118.11	1,590.13	1,322.70	267.43	5.946		
12,600.00	7,888.97	12,850.03	7,754.99	135.94	139.20	-85.17	-2,352.57	-5,218.11	1,590.13	1,317.48	272.65	5.832		
12,700.00	7,888.97	12,950.03	7,754.99	138.57	141.77	-85.17	-2,352.14	-5,318.11	1,590.13	1,312.25	277.88	5.722		
12,800.00	7,888.97	13,050.03	7,754.99	141.19	144.35	-85.17	-2,351.70	-5,418.11	1,590.14	1,307.02	283.11	5.617		
12,900.00	7,888.97	13,150.03	7,754.99	143.82	146.93	-85.17	-2,351.27	-5,518.11	1,590.14	1,301.79	288.35	5.515		
13,000.00	7,888.97	13,250.03	7,754.99	146.45	149.52	-85.17	-2,350.83	-5,618.11	1,590.14	1,296.55	293.59	5.416		
13,100.00	7,888.97	13,350.03	7,754.99	149.09	152.11	-85.17	-2,350.40	-5,718.11	1,590.14	1,291.31	298.83	5.321		
13,200.00	7,888.97	13,450.03	7,754.99	151.72	154.70	-85.17	-2,349.97	-5,818.11	1,590.15	1,286.06	304.08	5.229		
13,300.00	7,888.97	13,550.03	7,754.99	154.36	157.30	-85.17	-2,349.53	-5,918.11	1,590.15	1,280.81	309.34	5.140		
13,400.00	7,888.97	13,650.03	7,754.99	157.00	159.90	-85.17	-2,349.10	-6,018.11	1,590.15	1,275.56	314.59	5.055		
13,500.00	7,888.97	13,750.03	7,754.99	159.64	162.50	-85.17	-2,348.66	-6,118.10	1,590.15	1,270.30	319.86	4.971		
13,600.00	7,888.97	13,850.03	7,754.99	162.28	165.11	-85.17	-2,348.23	-6,218.10	1,590.16	1,265.04	325.12	4.891		
13,700.00	7,888.97	13,950.03	7,754.99	164.93	167.72	-85.17	-2,347.79	-6,318.10	1,590.16	1,259.77	330.39	4.813		
13,800.00	7,888.97	14,050.03	7,754.99	167.57	170.33	-85.17	-2,347.36	-6,418.10	1,590.16	1,254.51	335.66	4.737		

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 5-6-8
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 5-6-8	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		
13,900.00	7,888.97	14,150.03	7,754.99	170.22	172.94	-85.17	-2,346.92	-6,518.10	1,590.17	1,249.24	340.93	4.664		
14,000.00	7,888.97	14,250.03	7,754.99	172.87	175.56	-85.17	-2,346.49	-6,618.10	1,590.17	1,243.96	346.21	4.593		
14,100.00	7,888.97	14,350.03	7,754.99	175.51	178.18	-85.17	-2,346.06	-6,718.10	1,590.17	1,238.69	351.49	4.524		
14,200.00	7,888.97	14,450.03	7,754.99	178.16	180.80	-85.17	-2,345.62	-6,818.10	1,590.18	1,233.41	356.77	4.457		
14,300.00	7,888.97	14,550.03	7,754.99	180.82	183.43	-85.17	-2,345.19	-6,918.10	1,590.18	1,228.13	362.05	4.392		
14,400.00	7,888.97	14,650.03	7,754.99	183.47	186.05	-85.17	-2,344.75	-7,018.10	1,590.19	1,222.85	367.34	4.329		
14,500.00	7,888.97	14,750.03	7,754.99	186.12	188.68	-85.17	-2,344.32	-7,118.10	1,590.19	1,217.56	372.63	4.268		
14,600.00	7,888.97	14,850.03	7,754.99	188.78	191.31	-85.17	-2,343.88	-7,218.09	1,590.20	1,212.28	377.92	4.208		
14,700.00	7,888.97	14,950.03	7,754.99	191.43	193.94	-85.17	-2,343.45	-7,318.09	1,590.20	1,206.99	383.21	4.150		
14,800.00	7,888.97	15,050.03	7,754.99	194.09	196.58	-85.17	-2,343.02	-7,418.09	1,590.21	1,201.70	388.50	4.093		
14,900.00	7,888.97	15,150.03	7,754.99	196.75	199.21	-85.17	-2,342.58	-7,518.09	1,590.21	1,196.41	393.80	4.038		
15,000.00	7,888.97	15,250.03	7,754.99	199.41	201.85	-85.17	-2,342.15	-7,618.09	1,590.22	1,191.12	399.10	3.985		
15,100.00	7,888.97	15,350.03	7,754.99	202.07	204.49	-85.17	-2,341.71	-7,718.09	1,590.22	1,185.82	404.40	3.932		
15,200.00	7,888.97	15,450.03	7,754.99	204.73	207.13	-85.17	-2,341.28	-7,818.09	1,590.23	1,180.53	409.70	3.881		
15,300.00	7,888.98	15,550.03	7,754.99	207.39	209.77	-85.17	-2,340.84	-7,918.09	1,590.23	1,175.23	415.00	3.832		
15,400.00	7,888.98	15,650.03	7,754.99	210.05	212.41	-85.17	-2,340.41	-8,018.09	1,590.24	1,169.93	420.31	3.783		
15,500.00	7,888.98	15,750.03	7,754.99	212.71	215.06	-85.17	-2,339.98	-8,118.09	1,590.25	1,164.63	425.62	3.736		
15,600.00	7,888.98	15,850.03	7,754.99	215.37	217.70	-85.17	-2,339.54	-8,218.08	1,590.25	1,159.33	430.92	3.690		
15,700.00	7,888.98	15,950.03	7,754.99	218.04	220.35	-85.17	-2,339.11	-8,318.08	1,590.26	1,154.03	436.23	3.645		
15,800.00	7,888.98	16,050.03	7,754.99	220.70	223.00	-85.17	-2,338.67	-8,418.08	1,590.27	1,148.72	441.54	3.602		
15,900.00	7,888.98	16,150.03	7,754.99	223.37	225.65	-85.17	-2,338.24	-8,518.08	1,590.27	1,143.42	446.86	3.559		
16,000.00	7,888.98	16,250.03	7,754.99	226.03	228.30	-85.17	-2,337.80	-8,618.08	1,590.28	1,138.11	452.17	3.517		
16,100.00	7,888.98	16,350.03	7,754.99	228.70	230.95	-85.17	-2,337.37	-8,718.08	1,590.29	1,132.81	457.48	3.476		
16,200.00	7,888.98	16,450.03	7,754.98	231.37	233.60	-85.17	-2,336.94	-8,818.08	1,590.30	1,127.50	462.80	3.436		
16,300.00	7,888.98	16,550.03	7,754.98	234.03	236.25	-85.17	-2,336.50	-8,918.08	1,590.30	1,122.19	468.11	3.397		
16,400.00	7,888.98	16,650.03	7,754.98	236.70	238.91	-85.17	-2,336.07	-9,018.08	1,590.31	1,116.88	473.43	3.359		
16,500.00	7,888.98	16,750.03	7,754.98	239.37	241.56	-85.17	-2,335.63	-9,118.08	1,590.32	1,111.57	478.75	3.322		
16,600.00	7,888.98	16,850.03	7,754.98	242.04	244.22	-85.17	-2,335.20	-9,218.08	1,590.33	1,106.26	484.07	3.285		
16,700.00	7,888.99	16,950.03	7,754.98	244.71	246.88	-85.17	-2,334.76	-9,318.07	1,590.34	1,100.94	489.39	3.250		
16,800.00	7,888.99	17,050.03	7,754.98	247.38	249.53	-85.17	-2,334.33	-9,418.07	1,590.34	1,095.63	494.71	3.215		
16,900.00	7,888.99	17,150.03	7,754.98	250.05	252.19	-85.17	-2,333.90	-9,518.07	1,590.35	1,090.32	500.04	3.180		
17,000.00	7,888.99	17,250.03	7,754.98	252.72	254.85	-85.17	-2,333.46	-9,618.07	1,590.36	1,085.00	505.36	3.147		
17,100.00	7,888.99	17,350.03	7,754.98	255.39	257.51	-85.17	-2,333.03	-9,718.07	1,590.37	1,079.69	510.68	3.114		
17,200.00	7,888.99	17,450.03	7,754.98	258.06	260.17	-85.17	-2,332.59	-9,818.07	1,590.38	1,074.37	516.01	3.082		
17,300.00	7,888.99	17,550.03	7,754.98	260.73	262.83	-85.17	-2,332.16	-9,918.07	1,590.39	1,069.06	521.33	3.051		
17,400.00	7,888.99	17,650.03	7,754.98	263.40	265.49	-85.17	-2,331.72	-10,018.07	1,590.40	1,063.74	526.66	3.020		
17,500.00	7,888.99	17,750.03	7,754.98	266.07	268.16	-85.17	-2,331.29	-10,118.07	1,590.41	1,058.42	531.99	2.990		
17,600.00	7,889.00	17,850.03	7,754.98	268.75	270.82	-85.17	-2,330.85	-10,218.07	1,590.42	1,053.10	537.32	2.960		
17,700.00	7,889.00	17,950.03	7,754.98	271.42	273.48	-85.17	-2,330.42	-10,318.06	1,590.43	1,047.78	542.65	2.931		
17,800.00	7,889.00	18,050.03	7,754.98	274.09	276.15	-85.17	-2,329.99	-10,418.06	1,590.44	1,042.46	547.98	2.902		
17,900.00	7,889.00	18,150.03	7,754.98	276.77	278.81	-85.17	-2,329.55	-10,518.06	1,590.45	1,037.14	553.31	2.874		
17,960.53	7,889.00	18,210.73	7,755.00	278.39	280.43	-85.17	-2,329.07	-10,578.76	1,590.23	1,033.70	556.53	2.857		
17,961.29	7,889.00	18,210.73	7,755.00	278.41	280.43	-85.17	-2,329.07	-10,578.76	1,590.23	1,033.66	556.57	2.857 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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 CC		
500.00	500.00	499.66	499.64	1.57	1.57	-88.18	1.71	-53.72	53.75	50.61	3.13	17.145 ES		
600.00	600.00	599.08	598.92	1.93	1.93	-82.87	6.82	-54.55	54.99	51.14	3.85	14.282		
700.00	700.00	698.02	697.48	2.29	2.29	-74.72	15.28	-55.94	58.04	53.48	4.57	12.705		
800.00	800.00	796.25	794.99	2.64	2.66	-64.98	27.00	-57.86	64.04	58.76	5.29	12.112		
900.00	900.00	893.56	891.12	3.00	3.04	-55.23	41.85	-60.29	73.93	67.93	6.00	12.321		
1,000.00	999.98	989.41	985.26	3.34	3.45	112.44	59.63	-63.20	88.78	82.10	6.68	13.291		
1,100.00	1,099.84	1,083.04	1,076.59	3.68	3.87	121.08	79.98	-66.53	110.03	102.71	7.33	15.021		
1,200.00	1,199.45	1,176.26	1,166.92	4.01	4.31	128.27	102.68	-70.25	137.72	129.74	7.98	17.267		
1,300.00	1,298.70	1,269.75	1,257.45	4.36	4.77	133.84	125.72	-74.02	169.59	160.93	8.66	19.593		
1,303.95	1,302.61	1,273.42	1,261.00	4.38	4.79	134.03	126.63	-74.17	170.92	162.24	8.68	19.686		
1,400.00	1,397.71	1,362.61	1,347.37	4.73	5.23	138.34	148.61	-77.77	203.98	194.64	9.34	21.847		
1,500.00	1,496.72	1,455.47	1,437.29	5.11	5.70	141.57	171.50	-81.51	239.18	229.16	10.02	23.869		
1,600.00	1,595.72	1,548.33	1,527.21	5.49	6.18	143.97	194.38	-85.26	274.89	264.17	10.71	25.663		
1,700.00	1,694.73	1,641.19	1,617.12	5.89	6.66	145.83	217.27	-89.01	310.92	299.51	11.41	27.256		
1,800.00	1,793.74	1,734.05	1,707.04	6.28	7.14	147.30	240.15	-92.75	347.18	335.07	12.11	28.673		
1,900.00	1,892.75	1,826.91	1,796.96	6.69	7.63	148.49	263.04	-96.50	383.60	370.79	12.81	29.939		
2,000.00	1,991.75	1,919.77	1,886.88	7.09	8.12	149.48	285.92	-100.25	420.14	406.62	13.52	31.075		
2,100.00	2,090.76	2,012.63	1,976.79	7.50	8.61	150.31	308.81	-103.99	456.78	442.55	14.23	32.098		
2,200.00	2,189.77	2,105.49	2,066.71	7.91	9.10	151.01	331.69	-107.74	493.48	478.54	14.94	33.024		
2,300.00	2,288.78	2,201.65	2,156.63	8.33	9.61	151.62	354.58	-111.49	530.24	514.57	15.67	33.836		
2,400.00	2,387.78	2,308.79	2,246.55	8.74	10.19	152.15	377.46	-115.23	567.05	550.61	16.44	34.484		
2,500.00	2,486.79	2,384.07	2,336.47	9.16	10.59	152.62	400.35	-118.98	603.89	586.80	17.09	35.332		
2,600.00	2,585.80	2,476.93	2,426.38	9.58	11.08	153.03	423.23	-122.73	640.77	622.96	17.81	35.975		
2,700.00	2,684.81	2,569.79	2,516.30	10.00	11.58	153.40	446.12	-126.47	677.67	659.14	18.53	36.568		
2,800.00	2,783.82	2,662.65	2,606.22	10.42	12.08	153.73	469.00	-130.22	714.59	695.33	19.25	37.115		
2,900.00	2,882.82	2,755.51	2,696.14	10.84	12.58	154.03	491.89	-133.96	751.53	731.55	19.98	37.622		
3,000.00	2,981.83	2,848.37	2,786.05	11.27	13.08	154.30	514.77	-137.71	788.48	767.78	20.70	38.093		
3,100.00	3,080.84	2,941.23	2,875.97	11.69	13.58	154.54	537.66	-141.46	825.45	804.03	21.42	38.531		
3,200.00	3,179.85	3,034.09	2,965.89	12.11	14.08	154.77	560.54	-145.20	862.43	840.28	22.15	38.939		
3,300.00	3,278.85	3,126.95	3,055.81	12.54	14.58	154.97	583.43	-148.95	899.42	876.55	22.87	39.321		
3,400.00	3,377.86	3,219.81	3,145.73	12.96	15.08	155.16	606.31	-152.70	936.43	912.83	23.60	39.679		
3,500.00	3,476.87	3,312.67	3,235.64	13.39	15.58	155.34	629.20	-156.44	973.43	949.11	24.33	40.015		
3,600.00	3,575.88	3,405.53	3,325.56	13.82	16.08	155.50	652.08	-160.19	1,010.45	985.40	25.05	40.331		
3,700.00	3,674.88	3,498.39	3,415.48	14.24	16.58	155.65	674.97	-163.94	1,047.47	1,021.69	25.78	40.629		
3,800.00	3,773.89	3,608.75	3,505.40	14.67	17.17	155.79	697.85	-167.68	1,084.50	1,057.92	26.58	40.801		
3,900.00	3,872.90	3,684.11	3,595.32	15.10	17.58	155.92	720.74	-171.43	1,121.54	1,094.30	27.24	41.175		
4,000.00	3,971.91	3,776.97	3,685.23	15.53	18.08	156.04	743.62	-175.18	1,158.57	1,130.61	27.97	41.425		
4,100.00	4,070.91	3,869.83	3,775.15	15.96	18.59	156.16	766.51	-178.92	1,195.62	1,166.92	28.70	41.663		
4,200.00	4,169.92	3,962.69	3,865.07	16.39	19.09	156.27	789.39	-182.67	1,232.66	1,203.24	29.43	41.889		
4,300.00	4,268.93	4,055.55	3,954.99	16.81	19.59	156.37	812.28	-186.42	1,269.71	1,239.56	30.16	42.103		
4,400.00	4,367.94	4,148.41	4,044.90	17.24	20.09	156.47	835.16	-190.16	1,306.77	1,275.88	30.89	42.307		
4,500.00	4,466.94	4,241.27	4,134.82	17.67	20.59	156.56	858.05	-193.91	1,343.82	1,312.21	31.62	42.501		
4,600.00	4,565.95	4,334.13	4,224.74	18.10	21.10	156.64	880.93	-197.66	1,380.88	1,348.53	32.35	42.685		
4,700.00	4,664.96	4,426.99	4,314.66	18.53	21.60	156.73	903.82	-201.40	1,417.95	1,384.86	33.08	42.862		
4,800.00	4,763.97	4,519.85	4,404.58	18.96	22.10	156.80	926.70	-205.15	1,455.01	1,421.20	33.81	43.030		
4,900.00	4,862.97	4,612.71	4,494.49	19.39	22.60	156.88	949.59	-208.90	1,492.08	1,457.53	34.55	43.191		
5,000.00	4,961.98	4,705.57	4,584.41	19.82	23.11	156.95	972.47	-212.64	1,529.15	1,493.87	35.28	43.345		

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 5-6-8
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 5-6-8	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	5,060.99	4,801.57	4,674.33	20.25	23.63	157.01	995.36	-216.39	1,566.22	1,530.19	36.02	43.477		
5,200.00	5,160.00	4,908.71	4,764.25	20.68	24.21	157.08	1,018.24	-220.14	1,603.29	1,566.47	36.81	43.551		
5,300.00	5,259.00	4,984.15	4,854.16	21.11	24.62	157.14	1,041.13	-223.88	1,640.36	1,602.89	37.48	43.769		
5,400.00	5,358.01	5,077.01	4,944.08	21.55	25.12	157.20	1,064.01	-227.63	1,677.44	1,639.23	38.21	43.900		
5,500.00	5,457.02	5,169.87	5,034.00	21.98	25.62	157.25	1,086.90	-231.38	1,714.51	1,675.57	38.94	44.024		
5,600.00	5,556.03	5,262.73	5,123.92	22.41	26.13	157.30	1,109.78	-235.12	1,751.59	1,711.91	39.68	44.144		
5,700.00	5,655.03	5,355.59	5,213.84	22.84	26.63	157.36	1,132.67	-238.87	1,788.67	1,748.26	40.41	44.260		
5,800.00	5,754.04	5,448.45	5,303.75	23.27	27.13	157.40	1,155.55	-242.62	1,825.75	1,784.61	41.15	44.371		
5,900.00	5,853.05	5,541.31	5,393.67	23.70	27.64	157.45	1,178.44	-246.36	1,862.83	1,820.95	41.88	44.478		
6,000.00	5,952.06	5,634.17	5,483.59	24.13	28.14	157.50	1,201.32	-250.11	1,899.92	1,857.30	42.62	44.581		
6,100.00	6,051.06	5,727.03	5,573.51	24.56	28.64	157.54	1,224.21	-253.85	1,937.00	1,893.65	43.35	44.680		
6,200.00	6,150.07	5,819.89	5,663.42	25.00	29.15	157.58	1,247.09	-257.60	1,974.09	1,930.00	44.09	44.776		
6,300.00	6,249.08	5,912.75	5,753.34	25.43	29.65	157.62	1,269.98	-261.35	2,011.17	1,966.35	44.82	44.868		
6,400.00	6,348.09	6,005.61	5,843.26	25.86	30.16	157.66	1,292.86	-265.09	2,048.26	2,002.70	45.56	44.957		
6,500.00	6,447.09	6,101.53	5,933.18	26.29	30.68	157.70	1,315.75	-268.84	2,085.34	2,039.04	46.31	45.031		
6,600.00	6,546.10	6,208.67	6,023.10	26.72	31.26	157.73	1,338.63	-272.59	2,122.43	2,075.33	47.10	45.060		
6,700.00	6,645.11	6,284.19	6,113.01	27.15	31.67	157.77	1,361.52	-276.33	2,159.52	2,111.75	47.77	45.207		
6,800.00	6,744.12	6,377.05	6,202.93	27.59	32.17	157.80	1,384.40	-280.08	2,196.61	2,148.10	48.51	45.285		
6,900.00	6,843.12	6,469.91	6,292.85	28.02	32.67	157.84	1,407.29	-283.83	2,233.70	2,184.46	49.24	45.360		
6,940.67	6,883.39	6,507.68	6,329.42	28.19	32.88	157.85	1,416.60	-285.35	2,248.79	2,199.24	49.54	45.390		
7,000.00	6,942.21	6,562.98	6,382.97	28.45	33.18	158.03	1,430.23	-287.58	2,270.26	2,220.28	49.98	45.423		
7,100.00	7,041.68	6,657.10	6,474.10	28.85	33.69	158.29	1,453.42	-291.38	2,304.04	2,253.33	50.71	45.432		
7,200.00	7,141.44	6,752.25	6,566.24	29.22	34.21	158.49	1,476.87	-295.22	2,334.75	2,283.31	51.45	45.383		
7,300.00	7,241.39	7,300.00	6,974.54	29.56	36.61	158.47	1,550.41	-307.26	2,354.52	2,299.98	54.54	43.170		
7,344.62	7,286.00	7,479.80	7,286.00	29.69	37.07	0.07	1,567.55	-310.06	2,356.80	2,301.57	55.23	42.669		
7,374.62	7,316.00	7,509.80	7,316.00	29.78	37.15	0.07	1,567.55	-310.06	2,356.80	2,301.38	55.42	42.523		
7,400.00	7,341.37	7,534.87	7,341.06	29.85	37.21	89.83	1,567.55	-310.61	2,356.80	2,301.21	55.59	42.397		
7,450.00	7,391.17	7,584.24	7,390.23	30.02	37.34	89.83	1,567.57	-314.89	2,356.80	2,300.87	55.93	42.138		
7,500.00	7,440.39	7,633.63	7,438.86	30.19	37.47	89.83	1,567.61	-323.39	2,356.80	2,300.51	56.29	41.868		
7,550.00	7,488.66	7,683.02	7,486.59	30.37	37.61	89.83	1,567.66	-336.05	2,356.80	2,300.13	56.67	41.586		
7,600.00	7,535.62	7,732.43	7,533.07	30.56	37.75	89.84	1,567.73	-352.77	2,356.80	2,299.72	57.08	41.291		
7,650.00	7,580.90	7,781.86	7,577.95	30.76	37.90	89.84	1,567.82	-373.45	2,356.80	2,299.29	57.51	40.982		
7,700.00	7,624.18	7,831.32	7,620.91	30.97	38.05	89.85	1,567.93	-397.92	2,356.80	2,298.83	57.97	40.657		
7,750.00	7,665.10	7,880.80	7,661.62	31.18	38.21	89.86	1,568.05	-426.03	2,356.80	2,298.34	58.46	40.312		
7,800.00	7,703.37	7,930.32	7,699.77	31.40	38.38	89.87	1,568.19	-457.57	2,356.80	2,297.80	59.00	39.943		
7,829.48	7,724.58	7,959.54	7,720.96	31.54	38.48	89.88	1,568.27	-477.68	2,356.80	2,297.45	59.35	39.711		
7,850.00	7,738.70	7,979.87	7,735.09	31.64	38.56	89.88	1,568.34	-492.30	2,356.80	2,297.20	59.60	39.546		
7,900.00	7,770.80	8,029.46	7,767.30	31.90	38.74	89.89	1,568.50	-529.99	2,356.80	2,296.55	60.25	39.116		
7,950.00	7,799.45	8,079.10	7,796.15	32.18	38.94	89.91	1,568.67	-570.36	2,356.80	2,295.82	60.98	38.650		
8,000.00	7,824.41	8,128.78	7,821.43	32.49	39.16	89.92	1,568.86	-613.11	2,356.80	2,295.02	61.78	38.146		
8,050.00	7,845.51	8,178.51	7,842.92	32.83	39.40	89.93	1,569.05	-657.93	2,356.80	2,294.13	62.67	37.605		
8,100.00	7,862.58	8,228.28	7,860.47	33.22	39.66	89.95	1,569.25	-704.50	2,356.80	2,293.15	63.65	37.028		
8,150.00	7,875.49	8,278.11	7,873.92	33.65	39.95	89.96	1,569.46	-752.46	2,356.80	2,292.09	64.71	36.421		
8,200.00	7,884.14	8,327.99	7,883.16	34.13	40.27	89.98	1,569.67	-801.46	2,356.81	2,290.95	65.85	35.789		
8,250.00	7,888.47	8,377.93	7,888.11	34.65	40.62	89.99	1,569.88	-851.14	2,356.81	2,289.74	67.06	35.142		
8,274.69	7,889.00	8,402.61	7,888.95	34.93	40.81	90.00	1,569.99	-875.80	2,356.81	2,289.12	67.68	34.822		
8,300.00	7,889.00	8,427.92	7,889.00	35.22	41.01	90.00	1,570.10	-901.11	2,356.81	2,288.46	68.35	34.484		
8,400.00	7,889.00	8,527.92	7,889.00	36.48	41.91	90.00	1,570.53	-1,001.11	2,356.81	2,285.68	71.13	33.133		
8,500.00	7,889.00	8,627.91	7,889.00	37.92	42.96	90.00	1,570.96	-1,101.10	2,356.81	2,282.61	74.20	31.763		
8,600.00	7,889.00	8,727.91	7,889.00	39.49	44.17	90.00	1,571.39	-1,201.10	2,356.82	2,279.29	77.52	30.402		
8,700.00	7,888.99	8,827.91	7,888.99	41.20	45.52	90.00	1,571.82	-1,301.09	2,356.82	2,275.76	81.06	29.074		
8,800.00	7,888.99	8,927.91	7,888.99	43.01	47.02	90.00	1,572.26	-1,401.09	2,356.82	2,272.02	84.80	27.794		

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 5-6-8
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 5-6-8	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	7,888.99	9,027.90	7,888.99	44.92	48.63	90.00	1,572.69	-1,501.09	2,356.82	2,268.12	88.70	26.571		
9,000.00	7,888.99	9,127.90	7,888.99	46.91	50.36	90.00	1,573.12	-1,601.08	2,356.83	2,264.07	92.75	25.410		
9,100.00	7,888.99	9,227.90	7,888.99	48.97	52.18	90.00	1,573.55	-1,701.08	2,356.83	2,259.89	96.93	24.314		
9,200.00	7,888.99	9,327.89	7,888.99	51.09	54.09	90.00	1,573.98	-1,801.08	2,356.83	2,255.60	101.23	23.283		
9,300.00	7,888.99	9,427.89	7,888.99	53.27	56.07	90.00	1,574.42	-1,901.07	2,356.83	2,251.21	105.62	22.314		
9,400.00	7,888.99	9,527.89	7,888.99	55.49	58.12	90.00	1,574.85	-2,001.07	2,356.83	2,246.73	110.10	21.406		
9,500.00	7,888.99	9,627.89	7,888.99	57.75	60.23	90.00	1,575.28	-2,101.06	2,356.84	2,242.18	114.66	20.555		
9,600.00	7,888.99	9,727.88	7,888.99	60.05	62.38	90.00	1,575.71	-2,201.06	2,356.84	2,237.55	119.29	19.758		
9,700.00	7,888.98	9,827.88	7,888.98	62.38	64.58	90.00	1,576.15	-2,301.06	2,356.84	2,232.87	123.97	19.011		
9,800.00	7,888.98	9,927.88	7,888.98	64.74	66.82	90.00	1,576.58	-2,401.05	2,356.84	2,228.13	128.72	18.310		
9,900.00	7,888.98	10,027.87	7,888.98	67.13	69.10	90.00	1,577.01	-2,501.05	2,356.84	2,223.34	133.51	17.653		
10,000.00	7,888.98	10,127.87	7,888.98	69.54	71.40	90.00	1,577.45	-2,601.05	2,356.85	2,218.51	138.34	17.037		
10,100.00	7,888.98	10,227.87	7,888.98	71.96	73.74	90.00	1,577.88	-2,701.04	2,356.85	2,213.64	143.21	16.457		
10,200.00	7,888.98	10,327.87	7,888.98	74.41	76.10	90.00	1,578.31	-2,801.04	2,356.85	2,208.73	148.12	15.912		
10,300.00	7,888.98	10,427.86	7,888.98	76.87	78.48	90.00	1,578.75	-2,901.03	2,356.85	2,203.79	153.06	15.398		
10,400.00	7,888.98	10,527.86	7,888.98	79.35	80.89	90.00	1,579.18	-3,001.03	2,356.85	2,198.83	158.03	14.914		
10,500.00	7,888.98	10,627.86	7,888.98	81.84	83.31	90.00	1,579.61	-3,101.03	2,356.85	2,193.83	163.02	14.457		
10,600.00	7,888.98	10,727.86	7,888.98	84.35	85.75	90.00	1,580.05	-3,201.02	2,356.86	2,188.82	168.04	14.026		
10,700.00	7,888.98	10,827.85	7,888.98	86.86	88.20	90.00	1,580.48	-3,301.02	2,356.86	2,183.78	173.08	13.617		
10,800.00	7,888.98	10,927.85	7,888.98	89.39	90.67	90.00	1,580.91	-3,401.02	2,356.86	2,178.72	178.14	13.231		
10,900.00	7,888.98	11,027.85	7,888.97	91.93	93.15	90.00	1,581.35	-3,501.01	2,356.86	2,173.65	183.22	12.864		
11,000.00	7,888.97	11,127.84	7,888.97	94.47	95.64	90.00	1,581.78	-3,601.01	2,356.86	2,168.55	188.31	12.516		
11,100.00	7,888.97	11,227.84	7,888.97	97.02	98.14	90.00	1,582.22	-3,701.00	2,356.86	2,163.44	193.42	12.185		
11,200.00	7,888.97	11,327.84	7,888.97	99.58	100.66	90.00	1,582.65	-3,801.00	2,356.86	2,158.32	198.54	11.871		
11,300.00	7,888.97	11,427.84	7,888.97	102.15	103.18	90.00	1,583.09	-3,901.00	2,356.87	2,153.18	203.68	11.571		
11,400.00	7,888.97	11,527.83	7,888.97	104.72	105.71	90.00	1,583.52	-4,000.99	2,356.87	2,148.04	208.83	11.286		
11,500.00	7,888.97	11,627.83	7,888.97	107.30	108.25	90.00	1,583.96	-4,100.99	2,356.87	2,142.88	213.99	11.014		
11,600.00	7,888.97	11,727.83	7,888.97	109.88	110.80	90.00	1,584.39	-4,200.99	2,356.87	2,137.71	219.16	10.754		
11,700.00	7,888.97	11,827.82	7,888.97	112.47	113.35	90.00	1,584.83	-4,300.98	2,356.87	2,132.53	224.34	10.506		
11,800.00	7,888.97	11,927.82	7,888.97	115.06	115.91	90.00	1,585.26	-4,400.98	2,356.87	2,127.34	229.53	10.268		
11,900.00	7,888.97	12,027.82	7,888.97	117.66	118.48	90.00	1,585.70	-4,500.97	2,356.87	2,122.14	234.73	10.041		
12,000.00	7,888.97	12,127.82	7,888.97	120.26	121.05	90.00	1,586.13	-4,600.97	2,356.87	2,116.93	239.94	9.823		
12,100.00	7,888.97	12,227.81	7,888.97	122.87	123.63	90.00	1,586.57	-4,700.97	2,356.87	2,111.72	245.15	9.614		
12,200.00	7,888.97	12,327.81	7,888.97	125.48	126.21	90.00	1,587.00	-4,800.96	2,356.87	2,106.50	250.37	9.413		
12,300.00	7,888.97	12,427.81	7,888.97	128.09	128.79	90.00	1,587.44	-4,900.96	2,356.88	2,101.27	255.60	9.221		
12,400.00	7,888.97	12,527.80	7,888.97	130.70	131.38	90.00	1,587.88	-5,000.96	2,356.88	2,096.04	260.84	9.036		
12,500.00	7,888.97	12,627.80	7,888.97	133.32	133.98	90.00	1,588.31	-5,100.95	2,356.88	2,090.80	266.08	8.858		
12,600.00	7,888.97	12,727.80	7,888.97	135.94	136.58	90.00	1,588.75	-5,200.95	2,356.88	2,085.56	271.32	8.687		
12,700.00	7,888.97	12,827.80	7,888.97	138.57	139.18	90.00	1,589.18	-5,300.94	2,356.88	2,080.31	276.57	8.522		
12,800.00	7,888.97	12,927.79	7,888.97	141.19	141.78	90.00	1,589.62	-5,400.94	2,356.88	2,075.05	281.83	8.363		
12,900.00	7,888.97	13,027.79	7,888.97	143.82	144.39	90.00	1,590.06	-5,500.94	2,356.88	2,069.79	287.09	8.210		
13,000.00	7,888.97	13,127.79	7,888.97	146.45	147.00	90.00	1,590.49	-5,600.93	2,356.88	2,064.53	292.35	8.062		
13,100.00	7,888.97	13,227.79	7,888.97	149.09	149.62	90.00	1,590.93	-5,700.93	2,356.88	2,059.26	297.62	7.919		
13,200.00	7,888.97	13,327.78	7,888.97	151.72	152.23	90.00	1,591.37	-5,800.93	2,356.88	2,053.99	302.89	7.781		
13,300.00	7,888.97	13,427.78	7,888.97	154.36	154.85	90.00	1,591.80	-5,900.92	2,356.88	2,048.71	308.17	7.648		
13,400.00	7,888.97	13,527.78	7,888.97	157.00	157.47	90.00	1,592.24	-6,000.92	2,356.88	2,043.43	313.45	7.519		
13,500.00	7,888.97	13,627.77	7,888.97	159.64	160.10	90.00	1,592.68	-6,100.91	2,356.88	2,038.15	318.73	7.395		
13,600.00	7,888.97	13,727.77	7,888.97	162.28	162.72	90.00	1,593.12	-6,200.91	2,356.88	2,032.86	324.02	7.274		
13,700.00	7,888.97	13,827.77	7,888.97	164.93	165.35	90.00	1,593.55	-6,300.91	2,356.88	2,027.58	329.30	7.157		
13,800.00	7,888.97	13,927.77	7,888.97	167.57	167.98	90.00	1,593.99	-6,400.90	2,356.88	2,022.28	334.60	7.044		
13,900.00	7,888.97	14,027.76	7,888.97	170.22	170.61	90.00	1,594.43	-6,500.90	2,356.88	2,016.99	339.89	6.934		
14,000.00	7,888.97	14,127.76	7,888.97	172.87	173.25	90.00	1,594.87	-6,600.90	2,356.88	2,011.69	345.19	6.828		

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 5-6-8
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 5-6-8	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		
14,100.00	7,888.97	14,227.76	7,888.97	175.51	175.88	90.00	1,595.30	-6,700.89	2,356.88	2,006.39	350.49	6.725		
14,200.00	7,888.97	14,327.75	7,888.97	178.16	178.52	90.00	1,595.74	-6,800.89	2,356.88	2,001.09	355.79	6.624		
14,300.00	7,888.97	14,427.75	7,888.97	180.82	181.16	90.00	1,596.18	-6,900.88	2,356.88	1,995.78	361.09	6.527		
14,400.00	7,888.97	14,527.75	7,888.97	183.47	183.80	90.00	1,596.62	-7,000.88	2,356.88	1,990.48	366.40	6.433		
14,500.00	7,888.97	14,627.75	7,888.97	186.12	186.44	90.00	1,597.06	-7,100.88	2,356.88	1,985.17	371.71	6.341		
14,600.00	7,888.97	14,727.74	7,888.97	188.78	189.08	90.00	1,597.50	-7,200.87	2,356.88	1,979.86	377.02	6.251		
14,700.00	7,888.97	14,827.74	7,888.97	191.43	191.73	90.00	1,597.94	-7,300.87	2,356.88	1,974.54	382.33	6.164		
14,800.00	7,888.97	14,927.74	7,888.97	194.09	194.37	90.00	1,598.37	-7,400.87	2,356.88	1,969.23	387.65	6.080		
14,900.00	7,888.97	15,027.73	7,888.97	196.75	197.02	90.00	1,598.81	-7,500.86	2,356.88	1,963.91	392.96	5.998		
15,000.00	7,888.97	15,127.73	7,888.97	199.41	199.67	90.00	1,599.25	-7,600.86	2,356.87	1,958.59	398.28	5.918		
15,100.00	7,888.97	15,227.73	7,888.97	202.07	202.32	90.00	1,599.69	-7,700.85	2,356.87	1,953.27	403.60	5.840		
15,200.00	7,888.97	15,327.73	7,888.97	204.73	204.97	90.00	1,600.13	-7,800.85	2,356.87	1,947.95	408.92	5.764		
15,300.00	7,888.98	15,427.72	7,888.97	207.39	207.62	90.00	1,600.57	-7,900.85	2,356.87	1,942.63	414.24	5.690		
15,400.00	7,888.98	15,527.72	7,888.98	210.05	210.27	90.00	1,601.01	-8,000.84	2,356.87	1,937.30	419.57	5.617		
15,500.00	7,888.98	15,627.72	7,888.98	212.71	212.92	90.00	1,601.45	-8,100.84	2,356.87	1,931.98	424.89	5.547		
15,600.00	7,888.98	15,727.71	7,888.98	215.37	215.58	90.00	1,601.89	-8,200.84	2,356.87	1,926.65	430.22	5.478		
15,700.00	7,888.98	15,827.71	7,888.98	218.04	218.23	90.00	1,602.33	-8,300.83	2,356.87	1,921.32	435.55	5.411		
15,800.00	7,888.98	15,927.71	7,888.98	220.70	220.89	90.00	1,602.77	-8,400.83	2,356.87	1,915.99	440.88	5.346		
15,900.00	7,888.98	16,027.71	7,888.98	223.37	223.55	90.00	1,603.21	-8,500.82	2,356.87	1,910.66	446.21	5.282		
16,000.00	7,888.98	16,127.70	7,888.98	226.03	226.20	90.00	1,603.65	-8,600.82	2,356.86	1,905.32	451.54	5.220		
16,100.00	7,888.98	16,227.70	7,888.98	228.70	228.86	90.00	1,604.09	-8,700.82	2,356.86	1,899.99	456.87	5.159		
16,200.00	7,888.98	16,327.70	7,888.98	231.37	231.52	90.00	1,604.53	-8,800.81	2,356.86	1,894.65	462.21	5.099		
16,300.00	7,888.98	16,427.70	7,888.98	234.03	234.18	90.00	1,604.97	-8,900.81	2,356.86	1,889.32	467.54	5.041		
16,400.00	7,888.98	16,527.69	7,888.98	236.70	236.84	90.00	1,605.41	-9,000.81	2,356.86	1,883.98	472.88	4.984		
16,500.00	7,888.98	16,627.69	7,888.98	239.37	239.50	90.00	1,605.85	-9,100.80	2,356.86	1,878.64	478.22	4.928		
16,600.00	7,888.98	16,727.69	7,888.98	242.04	242.16	90.00	1,606.29	-9,200.80	2,356.86	1,873.30	483.55	4.874		
16,700.00	7,888.99	16,827.68	7,888.99	244.71	244.83	90.00	1,606.73	-9,300.79	2,356.86	1,867.96	488.89	4.821		
16,800.00	7,888.99	16,927.68	7,888.99	247.38	247.49	90.00	1,607.18	-9,400.79	2,356.85	1,862.62	494.23	4.769		
16,900.00	7,888.99	17,027.68	7,888.99	250.05	250.15	90.00	1,607.62	-9,500.79	2,356.85	1,857.28	499.57	4.718		
17,000.00	7,888.99	17,127.68	7,888.99	252.72	252.82	90.00	1,608.06	-9,600.78	2,356.85	1,851.94	504.91	4.668		
17,100.00	7,888.99	17,227.67	7,888.99	255.39	255.48	90.00	1,608.50	-9,700.78	2,356.85	1,846.59	510.26	4.619		
17,200.00	7,888.99	17,327.67	7,888.99	258.06	258.15	90.00	1,608.94	-9,800.78	2,356.85	1,841.25	515.60	4.571		
17,300.00	7,888.99	17,427.67	7,888.99	260.73	260.81	90.00	1,609.38	-9,900.77	2,356.84	1,835.90	520.94	4.524		
17,400.00	7,888.99	17,527.66	7,888.99	263.40	263.48	90.00	1,609.82	-10,000.77	2,356.84	1,830.56	526.29	4.478		
17,500.00	7,888.99	17,627.66	7,888.99	266.07	266.14	90.00	1,610.27	-10,100.76	2,356.84	1,825.21	531.63	4.433		
17,600.00	7,889.00	17,727.66	7,889.00	268.75	268.81	90.00	1,610.71	-10,200.76	2,356.84	1,819.86	536.98	4.389		
17,700.00	7,889.00	17,827.66	7,889.00	271.42	271.48	90.00	1,611.15	-10,300.76	2,356.84	1,814.51	542.32	4.346		
17,800.00	7,889.00	17,927.65	7,889.00	274.09	274.15	90.00	1,611.59	-10,400.75	2,356.83	1,809.16	547.67	4.303		
17,900.00	7,889.00	18,027.65	7,889.00	276.77	276.81	90.00	1,612.04	-10,500.75	2,356.83	1,803.81	553.02	4.262		
17,961.29	7,889.00	18,088.94	7,889.00	278.41	278.45	90.00	1,612.31	-10,562.03	2,356.83	1,800.53	556.30	4.237 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-70.31	70.31					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-70.31	70.31	70.04	0.27	261.526		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-70.31	70.31	69.33	0.99	71.325		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-70.31	70.31	68.61	1.70	41.294		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-70.31	70.31	67.89	2.42	29.058		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-70.31	70.31	67.18	3.14	22.417		
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-70.31	70.31	66.46	3.85	18.246 CC		
700.00	700.00	699.47	699.45	2.29	2.28	-88.63	1.69	-70.66	70.68	66.11	4.57	15.474 ES		
800.00	800.00	798.70	798.54	2.64	2.64	-84.62	6.75	-71.69	72.03	66.74	5.28	13.638		
900.00	900.00	897.46	896.92	3.00	3.00	-78.37	15.12	-73.41	75.01	69.02	6.00	12.512		
1,000.00	999.98	995.29	994.04	3.34	3.36	88.86	26.67	-75.78	80.50	73.82	6.69	12.035		
1,100.00	1,099.84	1,091.50	1,089.09	3.68	3.74	99.92	41.20	-78.75	90.52	83.16	7.36	12.300		
1,200.00	1,199.45	1,186.17	1,182.10	4.01	4.12	111.02	58.46	-82.29	107.19	99.17	8.02	13.366		
1,300.00	1,298.70	1,281.50	1,275.59	4.36	4.52	120.45	76.74	-86.03	129.66	120.96	8.70	14.904		
1,303.95	1,302.61	1,285.24	1,279.26	4.38	4.54	120.77	77.46	-86.18	130.65	121.92	8.73	14.971		
1,400.00	1,397.71	1,376.29	1,368.55	4.73	4.93	127.85	94.92	-89.76	155.89	146.50	9.39	16.609		
1,500.00	1,496.72	1,471.08	1,461.51	5.11	5.35	133.13	113.10	-93.48	183.90	173.82	10.07	18.255		
1,600.00	1,595.72	1,565.87	1,554.46	5.49	5.77	137.02	131.28	-97.20	212.99	202.22	10.77	19.782		
1,700.00	1,694.73	1,660.67	1,647.42	5.89	6.20	139.98	149.45	-100.93	242.78	231.31	11.46	21.177		
1,800.00	1,793.74	1,755.46	1,740.38	6.28	6.63	142.29	167.63	-104.65	273.03	260.87	12.17	22.443		
1,900.00	1,892.75	1,850.25	1,833.34	6.69	7.07	144.15	185.81	-108.37	303.61	290.74	12.87	23.590		
2,000.00	1,991.75	1,945.04	1,926.29	7.09	7.50	145.66	203.98	-112.10	334.43	320.86	13.58	24.630		
2,100.00	2,090.76	2,039.83	2,019.25	7.50	7.94	146.93	222.16	-115.82	365.43	351.14	14.29	25.575		
2,200.00	2,189.77	2,134.62	2,112.21	7.91	8.38	147.99	240.34	-119.54	396.57	381.56	15.00	26.436		
2,300.00	2,288.78	2,229.41	2,205.16	8.33	8.82	148.90	258.51	-123.27	427.80	412.09	15.71	27.223		
2,400.00	2,387.78	2,324.20	2,298.12	8.74	9.27	149.69	276.69	-126.99	459.13	442.70	16.43	27.943		
2,500.00	2,486.79	2,418.99	2,391.08	9.16	9.71	150.37	294.87	-130.72	490.52	473.37	17.15	28.605		
2,600.00	2,585.80	2,513.78	2,484.04	9.58	10.15	150.98	313.04	-134.44	521.97	504.10	17.87	29.215		
2,700.00	2,684.81	2,608.57	2,576.99	10.00	10.60	151.51	331.22	-138.16	553.46	534.88	18.59	29.778		
2,800.00	2,783.82	2,703.36	2,669.95	10.42	11.05	151.99	349.40	-141.89	585.00	565.69	19.31	30.300		
2,900.00	2,882.82	2,801.85	2,762.91	10.84	11.51	152.42	367.57	-145.61	616.57	596.52	20.04	30.762		
3,000.00	2,981.83	2,907.06	2,855.86	11.27	12.01	152.81	385.75	-149.33	648.16	627.36	20.81	31.154		
3,100.00	3,080.84	2,987.74	2,948.82	11.69	12.39	153.16	403.93	-153.06	679.78	658.31	21.47	31.655		
3,200.00	3,179.85	3,082.53	3,041.78	12.11	12.84	153.48	422.10	-156.78	711.42	689.22	22.20	32.048		
3,300.00	3,278.85	3,177.32	3,134.74	12.54	13.29	153.77	440.28	-160.50	743.08	720.16	22.92	32.416		
3,400.00	3,377.86	3,272.11	3,227.69	12.96	13.74	154.04	458.46	-164.23	774.75	751.11	23.65	32.762		
3,500.00	3,476.87	3,366.90	3,320.65	13.39	14.19	154.29	476.63	-167.95	806.44	782.07	24.37	33.086		
3,600.00	3,575.88	3,461.69	3,413.61	13.82	14.63	154.52	494.81	-171.67	838.14	813.04	25.10	33.392		
3,700.00	3,674.88	3,556.48	3,506.56	14.24	15.09	154.73	512.99	-175.40	869.86	844.03	25.83	33.680		
3,800.00	3,773.89	3,651.27	3,599.52	14.67	15.54	154.93	531.16	-179.12	901.58	875.03	26.55	33.953		
3,900.00	3,872.90	3,746.06	3,692.48	15.10	15.99	155.11	549.34	-182.84	933.31	906.03	27.28	34.210		
4,000.00	3,971.91	3,840.85	3,785.44	15.53	16.44	155.29	567.52	-186.57	965.05	937.04	28.01	34.454		
4,100.00	4,070.91	3,935.64	3,878.39	15.96	16.89	155.45	585.69	-190.29	996.80	968.06	28.74	34.686		
4,200.00	4,169.92	4,030.43	3,971.35	16.39	17.34	155.60	603.87	-194.01	1,028.55	999.08	29.47	34.906		
4,300.00	4,268.93	4,125.22	4,064.31	16.81	17.79	155.74	622.05	-197.74	1,060.31	1,030.12	30.20	35.115		
4,400.00	4,367.94	4,220.01	4,157.26	17.24	18.24	155.87	640.22	-201.46	1,092.08	1,061.15	30.92	35.314		
4,500.00	4,466.94	4,314.81	4,250.22	17.67	18.69	156.00	658.40	-205.19	1,123.85	1,092.19	31.65	35.504		
4,600.00	4,565.95	4,409.60	4,343.18	18.10	19.15	156.12	676.58	-208.91	1,155.62	1,123.24	32.38	35.685		
4,700.00	4,664.96	4,504.39	4,436.13	18.53	19.60	156.23	694.75	-212.63	1,187.40	1,154.29	33.11	35.858		
4,800.00	4,763.97	4,600.82	4,529.09	18.96	20.06	156.34	712.93	-216.36	1,219.18	1,185.33	33.85	36.016		
4,900.00	4,862.97	4,706.03	4,622.05	19.39	20.56	156.44	731.11	-220.08	1,250.97	1,216.35	34.62	36.132		
5,000.00	4,961.98	4,788.76	4,715.01	19.82	20.95	156.54	749.28	-223.80	1,282.76	1,247.46	35.31	36.332		

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 5-6-8
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 5-6-8	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		
5,100.00	5,060.99	4,883.55	4,807.96	20.25	21.41	156.63	767.46	-227.53	1,314.55	1,278.52	36.04	36.478		
5,200.00	5,160.00	4,978.34	4,900.92	20.68	21.86	156.72	785.64	-231.25	1,346.35	1,309.58	36.77	36.617		
5,300.00	5,259.00	5,073.13	4,993.88	21.11	22.31	156.80	803.81	-234.97	1,378.15	1,340.65	37.50	36.750		
5,400.00	5,358.01	5,167.92	5,086.88	21.55	22.76	156.88	821.99	-238.70	1,409.95	1,371.72	38.23	36.879		
5,500.00	5,457.02	5,262.71	5,179.79	21.98	23.22	156.96	840.17	-242.42	1,441.76	1,402.79	38.96	37.002		
5,600.00	5,556.03	5,357.50	5,272.75	22.41	23.67	157.03	858.34	-246.14	1,473.56	1,433.86	39.70	37.121		
5,700.00	5,655.03	5,452.29	5,365.71	22.84	24.12	157.10	876.52	-249.87	1,505.37	1,464.94	40.43	37.235		
5,800.00	5,754.04	5,547.08	5,458.66	23.27	24.57	157.17	894.70	-253.59	1,537.18	1,496.02	41.16	37.345		
5,900.00	5,853.05	5,641.88	5,551.62	23.70	25.03	157.23	912.87	-257.31	1,568.99	1,527.10	41.89	37.451		
6,000.00	5,952.06	5,736.67	5,644.58	24.13	25.48	157.29	931.05	-261.04	1,600.80	1,558.18	42.63	37.553		
6,100.00	6,051.06	5,831.46	5,737.53	24.56	25.93	157.35	949.23	-264.76	1,632.62	1,589.26	43.36	37.652		
6,200.00	6,150.07	5,926.25	5,830.49	25.00	26.39	157.41	967.40	-268.48	1,664.44	1,620.34	44.09	37.747		
6,300.00	6,249.08	6,021.04	5,923.45	25.43	26.84	157.46	985.58	-272.21	1,696.25	1,651.43	44.83	37.839		
6,400.00	6,348.09	6,115.83	6,016.41	25.86	27.29	157.52	1,003.76	-275.93	1,728.07	1,682.51	45.56	37.928		
6,500.00	6,447.09	6,210.62	6,109.36	26.29	27.74	157.57	1,021.93	-279.66	1,759.89	1,713.60	46.30	38.014		
6,600.00	6,546.10	6,305.41	6,202.32	26.72	28.20	157.62	1,040.11	-283.38	1,791.72	1,744.69	47.03	38.097		
6,700.00	6,645.11	6,400.20	6,295.28	27.15	28.65	157.66	1,058.29	-287.10	1,823.54	1,775.77	47.76	38.177		
6,800.00	6,744.12	6,505.01	6,388.23	27.59	29.15	157.71	1,076.46	-290.83	1,855.36	1,806.83	48.54	38.225		
6,900.00	6,843.12	6,589.78	6,481.19	28.02	29.56	157.75	1,094.64	-294.55	1,887.19	1,837.95	49.23	38.331		
6,940.67	6,883.39	6,628.33	6,519.00	28.19	29.74	157.77	1,102.03	-296.06	1,900.13	1,850.60	49.53	38.361		
7,000.00	6,942.21	6,684.75	6,574.32	28.45	30.01	157.94	1,112.85	-298.28	1,918.47	1,868.51	49.97	38.394		
7,100.00	7,041.68	6,936.68	6,823.00	28.85	31.11	158.18	1,151.88	-306.28	1,943.77	1,892.08	51.69	37.605		
7,200.00	7,141.44	7,234.53	7,120.12	29.22	32.13	158.38	1,170.28	-310.04	1,956.25	1,903.03	53.22	36.756		
7,300.00	7,241.39	7,354.99	7,240.48	29.56	32.47	158.36	1,170.46	-313.07	1,959.39	1,905.43	53.96	36.311		
7,344.62	7,286.00	7,398.29	7,283.35	29.69	32.60	-0.18	1,170.49	-319.11	1,959.75	1,905.49	54.26	36.117		
7,374.62	7,316.00	7,426.78	7,311.25	29.78	32.69	-0.35	1,170.52	-324.85	1,959.81	1,905.35	54.46	35.985		
7,400.00	7,341.37	7,450.53	7,334.27	29.85	32.76	89.24	1,170.54	-330.68	1,959.88	1,905.24	54.64	35.872		
7,450.00	7,391.17	7,496.71	7,378.25	30.02	32.91	88.93	1,170.60	-344.73	1,960.06	1,905.06	55.00	35.639		
7,500.00	7,440.39	7,542.15	7,420.28	30.19	33.06	88.62	1,170.68	-361.97	1,960.29	1,904.91	55.38	35.398		
7,550.00	7,488.66	7,586.92	7,460.23	30.37	33.21	88.33	1,170.77	-382.16	1,960.57	1,904.80	55.78	35.150		
7,600.00	7,535.62	7,631.08	7,497.97	30.56	33.37	88.05	1,170.87	-405.07	1,960.89	1,904.69	56.20	34.894		
7,650.00	7,580.90	7,674.67	7,533.39	30.76	33.53	87.78	1,170.98	-430.47	1,961.23	1,904.60	56.64	34.628		
7,700.00	7,624.18	7,717.77	7,566.40	30.97	33.69	87.52	1,171.10	-458.15	1,961.60	1,904.49	57.11	34.350		
7,750.00	7,665.10	7,760.41	7,596.93	31.18	33.86	87.29	1,171.23	-487.90	1,961.97	1,904.36	57.61	34.057		
7,800.00	7,703.37	7,802.65	7,624.91	31.40	34.04	87.07	1,171.37	-519.53	1,962.34	1,904.19	58.15	33.746		
7,850.00	7,738.70	7,844.53	7,650.27	31.64	34.23	86.87	1,171.52	-552.85	1,962.70	1,903.96	58.74	33.411		
7,900.00	7,770.80	7,886.10	7,672.98	31.90	34.43	86.69	1,171.67	-587.66	1,963.04	1,903.65	59.39	33.052		
7,950.00	7,799.45	7,927.40	7,692.98	32.18	34.64	86.53	1,171.83	-623.79	1,963.36	1,903.25	60.10	32.666		
8,000.00	7,824.41	7,968.48	7,710.24	32.49	34.88	86.40	1,171.99	-661.05	1,963.64	1,902.76	60.88	32.253		
8,050.00	7,845.51	8,009.37	7,724.72	32.83	35.14	86.29	1,172.16	-699.28	1,963.88	1,902.15	61.73	31.813		
8,100.00	7,862.58	8,050.00	7,736.38	33.22	35.42	86.20	1,172.33	-738.19	1,964.07	1,901.42	62.65	31.350		
8,150.00	7,875.49	8,090.75	7,745.27	33.65	35.73	86.14	1,172.51	-777.95	1,964.22	1,900.57	63.65	30.860		
8,200.00	7,884.14	8,131.31	7,751.30	34.13	36.06	86.10	1,172.68	-818.05	1,964.31	1,899.59	64.71	30.354		
8,250.00	7,888.47	8,171.83	7,754.47	34.65	36.43	86.09	1,172.86	-858.44	1,964.34	1,898.51	65.83	29.838		
8,274.69	7,889.00	8,191.84	7,754.98	34.93	36.62	86.09	1,172.95	-878.44	1,964.33	1,897.93	66.40	29.581		
8,279.29	7,889.00	8,195.56	7,755.00	34.98	36.65	86.09	1,172.96	-882.16	1,964.33	1,897.82	66.51	29.533		
8,300.00	7,889.00	8,216.06	7,755.00	35.22	36.86	86.09	1,173.05	-902.66	1,964.34	1,897.27	67.06	29.292		
8,400.00	7,889.00	8,316.06	7,755.00	36.48	37.96	86.09	1,173.49	-1,002.66	1,964.35	1,894.48	69.87	28.114		
8,500.00	7,889.00	8,416.06	7,755.00	37.92	39.23	86.09	1,173.93	-1,102.66	1,964.36	1,891.39	72.97	26.920		
8,600.00	7,889.00	8,516.06	7,755.00	39.49	40.66	86.09	1,174.37	-1,202.66	1,964.37	1,888.05	76.32	25.739		
8,700.00	7,888.99	8,616.06	7,755.00	41.20	42.23	86.09	1,174.81	-1,302.66	1,964.38	1,884.49	79.89	24.588		
8,800.00	7,888.99	8,716.06	7,754.99	43.01	43.92	86.09	1,175.25	-1,402.65	1,964.39	1,880.73	83.65	23.482		

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 5-6-8
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 5-6-8	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 4-6S 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						
8,900.00	7,888.99	8,816.06	7,754.99	44.92	45.72	86.09	1,175.69	-1,502.65	1,964.40	1,876.81	87.58	22.429						
9,000.00	7,888.99	8,916.06	7,754.99	46.91	47.62	86.09	1,176.13	-1,602.65	1,964.41	1,872.75	91.66	21.431						
9,100.00	7,888.99	9,016.06	7,754.99	48.97	49.59	86.09	1,176.57	-1,702.65	1,964.42	1,868.55	95.87	20.491						
9,200.00	7,888.99	9,116.06	7,754.99	51.09	51.64	86.09	1,177.01	-1,802.65	1,964.43	1,864.25	100.18	19.609						
9,300.00	7,888.99	9,216.06	7,754.99	53.27	53.74	86.09	1,177.45	-1,902.65	1,964.44	1,859.84	104.59	18.782						
9,400.00	7,888.99	9,316.06	7,754.99	55.49	55.90	86.09	1,177.89	-2,002.65	1,964.45	1,855.35	109.09	18.007						
9,500.00	7,888.99	9,416.06	7,754.99	57.75	58.11	86.09	1,178.33	-2,102.65	1,964.45	1,850.79	113.67	17.283						
9,600.00	7,888.99	9,516.06	7,754.98	60.05	60.36	86.09	1,178.77	-2,202.65	1,964.46	1,846.16	118.31	16.605						
9,700.00	7,888.98	9,616.06	7,754.98	62.38	62.64	86.09	1,179.21	-2,302.65	1,964.47	1,841.46	123.01	15.970						
9,800.00	7,888.98	9,716.06	7,754.98	64.74	64.96	86.09	1,179.65	-2,402.64	1,964.48	1,836.72	127.76	15.376						
9,900.00	7,888.98	9,816.06	7,754.98	67.13	67.31	86.09	1,180.08	-2,502.64	1,964.49	1,831.93	132.56	14.819						
10,000.00	7,888.98	9,916.06	7,754.98	69.54	69.68	86.09	1,180.52	-2,602.64	1,964.50	1,827.09	137.40	14.297						
10,100.00	7,888.98	10,016.06	7,754.98	71.96	72.08	86.09	1,180.96	-2,702.64	1,964.51	1,822.22	142.28	13.807						
10,200.00	7,888.98	10,116.06	7,754.98	74.41	74.49	86.09	1,181.40	-2,802.64	1,964.51	1,817.31	147.20	13.346						
10,300.00	7,888.98	10,216.06	7,754.98	76.87	76.93	86.09	1,181.84	-2,902.64	1,964.52	1,812.38	152.14	12.912						
10,400.00	7,888.98	10,316.06	7,754.97	79.35	79.38	86.09	1,182.28	-3,002.64	1,964.53	1,807.41	157.12	12.504						
10,500.00	7,888.98	10,416.06	7,754.97	81.84	81.84	86.09	1,182.72	-3,102.64	1,964.54	1,802.42	162.11	12.118						
10,600.00	7,888.98	10,516.06	7,754.97	84.35	84.33	86.09	1,183.16	-3,202.64	1,964.54	1,797.41	167.14	11.754						
10,700.00	7,888.98	10,616.06	7,754.97	86.86	86.82	86.09	1,183.60	-3,302.64	1,964.55	1,792.37	172.18	11.410						
10,800.00	7,888.98	10,716.06	7,754.97	89.39	89.33	86.09	1,184.04	-3,402.64	1,964.56	1,787.32	177.24	11.084						
10,900.00	7,888.98	10,816.06	7,754.97	91.93	91.84	86.09	1,184.48	-3,502.63	1,964.56	1,782.25	182.32	10.776						
11,000.00	7,888.97	10,916.06	7,754.97	94.47	94.37	86.09	1,184.92	-3,602.63	1,964.57	1,777.16	187.41	10.483						
11,100.00	7,888.97	11,016.06	7,754.97	97.02	96.90	86.09	1,185.36	-3,702.63	1,964.58	1,772.05	192.52	10.204						
11,200.00	7,888.97	11,116.06	7,754.97	99.58	99.45	86.09	1,185.80	-3,802.63	1,964.58	1,766.94	197.65	9.940						
11,300.00	7,888.97	11,216.06	7,754.96	102.15	102.00	86.09	1,186.24	-3,902.63	1,964.59	1,761.81	202.78	9.688						
11,400.00	7,888.97	11,316.06	7,754.96	104.72	104.55	86.09	1,186.68	-4,002.63	1,964.59	1,756.66	207.93	9.448						
11,500.00	7,888.97	11,416.06	7,754.96	107.30	107.12	86.09	1,187.11	-4,102.63	1,964.60	1,751.51	213.09	9.220						
11,600.00	7,888.97	11,516.06	7,754.96	109.88	109.69	86.09	1,187.55	-4,202.63	1,964.60	1,746.35	218.26	9.001						
11,700.00	7,888.97	11,616.06	7,754.96	112.47	112.27	86.09	1,187.99	-4,302.63	1,964.61	1,741.17	223.44	8.793						
11,800.00	7,888.97	11,716.06	7,754.96	115.06	114.85	86.09	1,188.43	-4,402.63	1,964.61	1,735.99	228.62	8.593						
11,900.00	7,888.97	11,816.06	7,754.96	117.66	117.43	86.09	1,188.87	-4,502.62	1,964.62	1,730.80	233.82	8.402						
12,000.00	7,888.97	11,916.06	7,754.96	120.26	120.02	86.09	1,189.31	-4,602.62	1,964.62	1,725.60	239.02	8.219						
12,100.00	7,888.97	12,016.06	7,754.95	122.87	122.62	86.09	1,189.75	-4,702.62	1,964.63	1,720.40	244.23	8.044						
12,200.00	7,888.97	12,116.06	7,754.95	125.48	125.22	86.09	1,190.19	-4,802.62	1,964.63	1,715.19	249.45	7.876						
12,300.00	7,888.97	12,216.06	7,754.95	128.09	127.82	86.09	1,190.63	-4,902.62	1,964.64	1,709.97	254.67	7.714						
12,400.00	7,888.97	12,316.06	7,754.95	130.70	130.43	86.09	1,191.07	-5,002.62	1,964.64	1,704.74	259.90	7.559						
12,500.00	7,888.97	12,416.06	7,754.95	133.32	133.04	86.09	1,191.51	-5,102.62	1,964.65	1,699.51	265.14	7.410						
12,600.00	7,888.97	12,516.06	7,754.95	135.94	135.65	86.09	1,191.95	-5,202.62	1,964.65	1,694.27	270.38	7.266						
12,700.00	7,888.97	12,616.06	7,754.95	138.57	138.27	86.09	1,192.39	-5,302.62	1,964.65	1,689.03	275.62	7.128						
12,800.00	7,888.97	12,716.06	7,754.95	141.19	140.89	86.09	1,192.83	-5,402.62	1,964.66	1,683.79	280.87	6.995						
12,900.00	7,888.97	12,816.06	7,754.95	143.82	143.51	86.09	1,193.27	-5,502.61	1,964.66	1,678.54	286.12	6.866						
13,000.00	7,888.97	12,916.06	7,754.94	146.45	146.13	86.09	1,193.71	-5,602.61	1,964.66	1,673.28	291.38	6.743						
13,100.00	7,888.97	13,016.06	7,754.94	149.09	148.76	86.09	1,194.14	-5,702.61	1,964.67	1,668.02	296.65	6.623						
13,200.00	7,888.97	13,116.06	7,754.94	151.72	151.39	86.09	1,194.58	-5,802.61	1,964.67	1,662.76	301.91	6.507						
13,300.00	7,888.97	13,216.06	7,754.94	154.36	154.02	86.09	1,195.02	-5,902.61	1,964.67	1,657.49	307.18	6.396						
13,400.00	7,888.97	13,316.06	7,754.94	157.00	156.65	86.09	1,195.46	-6,002.61	1,964.67	1,652.22	312.45	6.288						
13,500.00	7,888.97	13,416.06	7,754.94	159.64	159.29	86.09	1,195.90	-6,102.61	1,964.68	1,646.95	317.73	6.183						
13,600.00	7,888.97	13,516.06	7,754.94	162.28	161.92	86.09	1,196.34	-6,202.61	1,964.68	1,641.67	323.01	6.082						
13,700.00	7,888.97	13,616.06	7,754.94	164.93	164.56	86.09	1,196.78	-6,302.61	1,964.68	1,636.39	328.29	5.985						
13,800.00	7,888.97	13,716.06	7,754.93	167.57	167.20	86.09	1,197.22	-6,402.61	1,964.68	1,631.11	333.58	5.890						
13,900.00	7,888.97	13,816.06	7,754.93	170.22	169.84	86.09	1,197.66	-6,502.61	1,964.68	1,625.82	338.86	5.798						
14,000.00	7,888.97	13,916.06	7,754.93	172.87	172.49	86.09	1,198.10	-6,602.60	1,964.69	1,620.53	344.15	5.709						

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 5-6-8
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 5-6-8	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		
14,100.00	7,888.97	14,016.06	7,754.93	175.51	175.13	86.09	1,198.54	-6,702.60	1,964.69	1,615.24	349.45	5.622		
14,200.00	7,888.97	14,116.06	7,754.93	178.16	177.78	86.09	1,198.98	-6,802.60	1,964.69	1,609.95	354.74	5.538		
14,300.00	7,888.97	14,216.06	7,754.93	180.82	180.43	86.09	1,199.42	-6,902.60	1,964.69	1,604.65	360.04	5.457		
14,400.00	7,888.97	14,316.06	7,754.93	183.47	183.07	86.09	1,199.86	-7,002.60	1,964.69	1,599.35	365.34	5.378		
14,500.00	7,888.97	14,416.06	7,754.93	186.12	185.72	86.09	1,200.30	-7,102.60	1,964.69	1,594.05	370.64	5.301		
14,600.00	7,888.97	14,516.06	7,754.92	188.78	188.37	86.09	1,200.74	-7,202.60	1,964.69	1,588.75	375.94	5.226		
14,700.00	7,888.97	14,616.06	7,754.92	191.43	191.03	86.09	1,201.17	-7,302.60	1,964.69	1,583.44	381.25	5.153		
14,800.00	7,888.97	14,716.06	7,754.92	194.09	193.68	86.09	1,201.61	-7,402.60	1,964.69	1,578.14	386.55	5.083		
14,900.00	7,888.97	14,816.06	7,754.92	196.75	196.33	86.09	1,202.05	-7,502.60	1,964.69	1,572.83	391.86	5.014		
15,000.00	7,888.97	14,916.06	7,754.92	199.41	198.99	86.09	1,202.49	-7,602.59	1,964.69	1,567.52	397.17	4.947		
15,100.00	7,888.97	15,016.06	7,754.92	202.07	201.64	86.09	1,202.93	-7,702.59	1,964.69	1,562.21	402.48	4.881		
15,200.00	7,888.97	15,116.06	7,754.92	204.73	204.30	86.09	1,203.37	-7,802.59	1,964.69	1,556.89	407.79	4.818		
15,300.00	7,888.98	15,216.06	7,754.92	207.39	206.96	86.09	1,203.81	-7,902.59	1,964.69	1,551.58	413.11	4.756		
15,400.00	7,888.98	15,316.06	7,754.92	210.05	209.62	86.09	1,204.25	-8,002.59	1,964.69	1,546.26	418.42	4.695		
15,500.00	7,888.98	15,416.06	7,754.91	212.71	212.28	86.09	1,204.69	-8,102.59	1,964.69	1,540.94	423.74	4.637		
15,600.00	7,888.98	15,516.06	7,754.91	215.37	214.94	86.09	1,205.13	-8,202.59	1,964.68	1,535.62	429.06	4.579		
15,700.00	7,888.98	15,616.06	7,754.91	218.04	217.60	86.09	1,205.57	-8,302.59	1,964.68	1,530.30	434.38	4.523		
15,800.00	7,888.98	15,716.06	7,754.91	220.70	220.26	86.09	1,206.01	-8,402.59	1,964.68	1,524.98	439.70	4.468		
15,900.00	7,888.98	15,816.06	7,754.91	223.37	222.92	86.09	1,206.45	-8,502.59	1,964.68	1,519.66	445.02	4.415		
16,000.00	7,888.98	15,916.06	7,754.91	226.03	225.58	86.09	1,206.89	-8,602.58	1,964.68	1,514.33	450.35	4.363		
16,100.00	7,888.98	16,016.06	7,754.91	228.70	228.25	86.09	1,207.33	-8,702.58	1,964.68	1,509.01	455.67	4.312		
16,200.00	7,888.98	16,116.06	7,754.91	231.37	230.91	86.09	1,207.76	-8,802.58	1,964.67	1,503.68	460.99	4.262		
16,300.00	7,888.98	16,216.06	7,754.90	234.03	233.58	86.09	1,208.20	-8,902.58	1,964.67	1,498.35	466.32	4.213		
16,400.00	7,888.98	16,316.06	7,754.90	236.70	236.24	86.09	1,208.64	-9,002.58	1,964.67	1,493.02	471.65	4.166		
16,500.00	7,888.98	16,416.06	7,754.90	239.37	238.91	86.09	1,209.08	-9,102.58	1,964.67	1,487.69	476.98	4.119		
16,600.00	7,888.98	16,516.06	7,754.90	242.04	241.57	86.09	1,209.52	-9,202.58	1,964.66	1,482.36	482.31	4.073		
16,700.00	7,888.99	16,616.06	7,754.90	244.71	244.24	86.09	1,209.96	-9,302.58	1,964.66	1,477.02	487.64	4.029		
16,800.00	7,888.99	16,716.06	7,754.90	247.38	246.91	86.09	1,210.40	-9,402.58	1,964.66	1,471.69	492.97	3.985		
16,900.00	7,888.99	16,816.06	7,754.90	250.05	249.57	86.09	1,210.84	-9,502.58	1,964.65	1,466.36	498.30	3.943		
17,000.00	7,888.99	16,916.06	7,754.90	252.72	252.24	86.09	1,211.28	-9,602.58	1,964.65	1,461.02	503.63	3.901		
17,100.00	7,888.99	17,016.06	7,754.90	255.39	254.91	86.09	1,211.72	-9,702.57	1,964.65	1,455.68	508.96	3.860		
17,200.00	7,888.99	17,116.06	7,754.89	258.06	257.58	86.09	1,212.16	-9,802.57	1,964.64	1,450.35	514.30	3.820		
17,300.00	7,888.99	17,216.06	7,754.89	260.73	260.25	86.09	1,212.60	-9,902.57	1,964.64	1,445.01	519.63	3.781		
17,400.00	7,888.99	17,316.06	7,754.89	263.40	262.92	86.09	1,213.04	-10,002.57	1,964.63	1,439.67	524.97	3.742		
17,500.00	7,888.99	17,416.06	7,754.89	266.07	265.59	86.09	1,213.48	-10,102.57	1,964.63	1,434.33	530.30	3.705		
17,600.00	7,889.00	17,516.06	7,754.89	268.75	268.26	86.09	1,213.92	-10,202.57	1,964.62	1,428.99	535.64	3.668		
17,700.00	7,889.00	17,616.06	7,754.89	271.42	270.93	86.09	1,214.36	-10,302.57	1,964.62	1,423.64	540.98	3.632		
17,800.00	7,889.00	17,716.06	7,754.89	274.09	273.60	86.09	1,214.79	-10,402.57	1,964.61	1,418.30	546.31	3.596		
17,900.00	7,889.00	17,822.48	7,754.92	276.77	276.45	86.09	1,215.19	-10,508.98	1,964.55	1,412.74	551.81	3.560		
17,961.29	7,889.00	17,883.76	7,755.01	278.41	278.08	86.09	1,215.27	-10,570.27	1,964.34	1,409.26	555.08	3.539 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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 CC		
900.00	900.00	899.11	899.09	3.00	3.00	-88.96	1.65	-90.47	90.49	84.49	6.00	15.081 ES		
1,000.00	999.98	997.87	997.71	3.34	3.35	73.47	6.57	-91.86	91.61	84.92	6.69	13.688		
1,100.00	1,099.84	1,095.67	1,095.14	3.68	3.71	81.20	14.67	-94.15	94.11	86.74	7.37	12.770		
1,200.00	1,199.45	1,192.31	1,191.09	4.01	4.06	91.65	25.75	-97.29	100.35	92.30	8.05	12.468		
1,300.00	1,298.70	1,289.46	1,287.42	4.36	4.43	102.65	37.90	-100.73	111.28	102.53	8.75	12.723		
1,303.95	1,302.61	1,306.72	1,291.20	4.38	4.49	103.07	38.38	-100.87	111.80	102.98	8.82	12.672		
1,400.00	1,397.71	1,386.18	1,383.31	4.73	4.80	112.40	50.00	-104.16	126.46	117.01	9.45	13.385		
1,500.00	1,496.72	1,482.89	1,479.21	5.11	5.17	119.96	62.10	-107.59	144.55	134.40	10.15	14.237		
1,600.00	1,595.72	1,579.61	1,575.10	5.49	5.55	125.82	74.20	-111.02	164.59	153.73	10.86	15.158		
1,700.00	1,694.73	1,676.33	1,671.00	5.89	5.94	130.39	86.29	-114.44	185.94	174.38	11.57	16.078		
1,800.00	1,793.74	1,773.04	1,766.90	6.28	6.32	134.02	98.39	-117.87	208.21	195.94	12.27	16.965		
1,900.00	1,892.75	1,869.76	1,862.79	6.69	6.71	136.95	110.49	-121.30	231.13	218.15	12.98	17.803		
2,000.00	1,991.75	1,966.47	1,958.69	7.09	7.09	139.35	122.59	-124.72	254.53	240.83	13.69	18.586		
2,100.00	2,090.76	2,063.19	2,054.58	7.50	7.48	141.35	134.69	-128.15	278.28	263.87	14.41	19.315		
2,200.00	2,189.77	2,159.91	2,150.48	7.91	7.87	143.03	146.79	-131.58	302.30	287.18	15.12	19.991		
2,300.00	2,288.78	2,256.62	2,246.37	8.33	8.26	144.47	158.89	-135.00	326.53	310.69	15.84	20.618		
2,400.00	2,387.78	2,353.34	2,342.27	8.74	8.66	145.71	170.99	-138.43	350.93	334.37	16.55	21.199		
2,500.00	2,486.79	2,450.06	2,438.16	9.16	9.05	146.78	183.08	-141.86	375.46	358.19	17.27	21.739		
2,600.00	2,585.80	2,546.77	2,534.06	9.58	9.44	147.73	195.18	-145.28	400.10	382.11	17.99	22.240		
2,700.00	2,684.81	2,643.49	2,629.95	10.00	9.84	148.57	207.28	-148.71	424.84	406.13	18.71	22.706		
2,800.00	2,783.82	2,740.21	2,725.85	10.42	10.23	149.31	219.38	-152.14	449.65	430.22	19.43	23.141		
2,900.00	2,882.82	2,836.92	2,821.75	10.84	10.63	149.98	231.48	-155.57	474.52	454.37	20.15	23.547		
3,000.00	2,981.83	2,933.64	2,917.64	11.27	11.02	150.58	243.58	-158.99	499.45	478.58	20.87	23.927		
3,100.00	3,080.84	3,030.36	3,013.54	11.69	11.42	151.12	255.68	-162.42	524.43	502.83	21.60	24.283		
3,200.00	3,179.85	3,127.07	3,109.43	12.11	11.82	151.62	267.78	-165.85	549.44	527.12	22.32	24.617		
3,300.00	3,278.85	3,223.79	3,205.33	12.54	12.21	152.07	279.87	-169.27	574.50	551.45	23.04	24.931		
3,400.00	3,377.86	3,320.50	3,301.22	12.96	12.61	152.48	291.97	-172.70	599.58	575.81	23.77	25.226		
3,500.00	3,476.87	3,417.22	3,397.12	13.39	13.01	152.86	304.07	-176.13	624.69	600.19	24.49	25.505		
3,600.00	3,575.88	3,513.94	3,493.01	13.82	13.41	153.21	316.17	-179.55	649.82	624.60	25.22	25.768		
3,700.00	3,674.88	3,610.65	3,588.91	14.24	13.80	153.54	328.27	-182.98	674.97	649.03	25.94	26.017		
3,800.00	3,773.89	3,707.37	3,684.81	14.67	14.20	153.84	340.37	-186.41	700.14	673.48	26.67	26.253		
3,900.00	3,872.90	3,804.09	3,780.70	15.10	14.60	154.12	352.47	-189.83	725.33	697.94	27.40	26.477		
4,000.00	3,971.91	3,900.80	3,876.60	15.53	15.00	154.38	364.57	-193.26	750.54	722.42	28.12	26.689		
4,100.00	4,070.91	4,002.48	3,972.49	15.96	15.42	154.63	376.66	-196.69	775.76	746.89	28.87	26.873		
4,200.00	4,169.92	4,105.76	4,068.39	16.39	15.84	154.86	388.76	-200.12	800.99	771.37	29.62	27.043		
4,300.00	4,268.93	4,209.05	4,164.28	16.81	16.27	155.07	400.86	-203.54	826.23	795.86	30.37	27.205		
4,400.00	4,367.94	4,287.67	4,260.18	17.24	16.59	155.27	412.96	-206.97	851.48	820.45	31.03	27.440		
4,500.00	4,466.94	4,384.39	4,356.07	17.67	16.99	155.46	425.06	-210.40	876.74	844.99	31.76	27.607		
4,600.00	4,565.95	4,481.10	4,451.97	18.10	17.39	155.64	437.16	-213.82	902.01	869.53	32.49	27.766		
4,700.00	4,664.96	4,577.82	4,547.86	18.53	17.79	155.82	449.26	-217.25	927.29	894.08	33.21	27.918		
4,800.00	4,763.97	4,674.53	4,643.76	18.96	18.19	155.98	461.36	-220.68	952.58	918.64	33.94	28.064		
4,900.00	4,862.97	4,771.25	4,739.66	19.39	18.59	156.13	473.46	-224.10	977.87	943.20	34.67	28.203		
5,000.00	4,961.98	4,867.97	4,835.55	19.82	18.99	156.28	485.55	-227.53	1,003.17	967.77	35.40	28.337		

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 5-6-8
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 5-6-8	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	5,060.99	4,964.68	4,931.45	20.25	19.39	156.41	497.65	-230.96	1,028.47	992.34	36.13	28.466		
5,200.00	5,160.00	5,061.40	5,027.34	20.68	19.79	156.54	509.75	-234.39	1,053.78	1,016.92	36.86	28.589		
5,300.00	5,259.00	5,158.12	5,123.24	21.11	20.19	156.67	521.85	-237.81	1,079.10	1,041.51	37.59	28.708		
5,400.00	5,358.01	5,254.83	5,219.13	21.55	20.59	156.79	533.95	-241.24	1,104.42	1,066.10	38.32	28.822		
5,500.00	5,457.02	5,351.55	5,315.03	21.98	20.98	156.90	546.05	-244.67	1,129.74	1,090.69	39.05	28.932		
5,600.00	5,556.03	5,448.27	5,410.92	22.41	21.38	157.01	558.15	-248.09	1,155.07	1,115.29	39.78	29.038		
5,700.00	5,655.03	5,544.98	5,506.82	22.84	21.78	157.12	570.25	-251.52	1,180.40	1,139.89	40.51	29.140		
5,800.00	5,754.04	5,641.70	5,602.72	23.27	22.18	157.22	582.34	-254.95	1,205.73	1,164.50	41.24	29.238		
5,900.00	5,853.05	5,738.42	5,698.61	23.70	22.58	157.31	594.44	-258.37	1,231.07	1,189.10	41.97	29.333		
6,000.00	5,952.06	5,835.13	5,794.51	24.13	22.98	157.41	606.54	-261.80	1,256.41	1,213.71	42.70	29.425		
6,100.00	6,051.06	5,931.85	5,890.40	24.56	23.38	157.50	618.64	-265.23	1,281.76	1,238.33	43.43	29.513		
6,200.00	6,150.07	6,028.56	5,986.30	25.00	23.78	157.58	630.74	-268.65	1,307.11	1,262.94	44.16	29.599		
6,300.00	6,249.08	6,125.28	6,082.19	25.43	24.18	157.66	642.84	-272.08	1,332.46	1,287.56	44.89	29.681		
6,400.00	6,348.09	6,222.00	6,178.09	25.86	24.58	157.74	654.94	-275.51	1,357.81	1,312.18	45.62	29.761		
6,500.00	6,447.09	6,318.71	6,273.98	26.29	24.98	157.82	667.04	-278.94	1,383.16	1,336.81	46.35	29.839		
6,600.00	6,546.10	6,415.43	6,369.88	26.72	25.38	157.89	679.13	-282.36	1,408.52	1,361.43	47.09	29.914		
6,700.00	6,645.11	6,512.15	6,465.77	27.15	25.78	157.96	691.23	-285.79	1,433.88	1,386.06	47.82	29.987		
6,800.00	6,744.12	6,608.86	6,561.67	27.59	26.18	158.03	703.33	-289.22	1,459.24	1,410.69	48.55	30.057		
6,900.00	6,843.12	6,705.58	6,657.57	28.02	26.58	158.09	715.43	-292.64	1,484.60	1,435.32	49.28	30.125		
6,940.67	6,883.39	6,744.91	6,696.57	28.19	26.75	158.12	720.35	-294.04	1,494.92	1,445.34	49.58	30.152		
7,000.00	6,942.21	6,802.44	6,753.60	28.45	26.99	158.26	727.55	-296.08	1,509.41	1,459.40	50.01	30.181		
7,100.00	7,041.68	6,900.00	6,850.34	28.85	27.39	158.43	739.75	-299.53	1,531.33	1,480.59	50.74	30.180		
7,200.00	7,141.44	6,998.22	6,947.72	29.22	27.80	158.53	752.04	-303.01	1,550.07	1,498.61	51.46	30.121		
7,300.00	7,241.39	7,191.81	7,140.29	29.56	28.55	158.51	770.81	-308.33	1,563.01	1,510.24	52.77	29.620		
7,344.62	7,286.00	7,285.60	7,233.95	29.69	28.88	0.12	775.40	-309.63	1,565.52	1,512.20	53.32	29.362		
7,374.62	7,316.00	7,348.82	7,297.15	29.78	29.09	0.11	776.84	-310.04	1,566.20	1,512.55	53.65	29.190		
7,400.00	7,341.37	7,393.04	7,341.37	29.85	29.24	89.88	777.05	-310.10	1,566.30	1,512.41	53.90	29.062		
7,444.16	7,385.38	7,437.04	7,385.37	30.00	29.38	90.00	777.05	-310.53	1,566.30	1,512.10	54.20	28.897		
7,450.00	7,391.17	7,442.86	7,391.18	30.02	29.40	90.01	777.05	-310.79	1,566.30	1,512.06	54.24	28.875		
7,500.00	7,440.39	7,492.89	7,440.98	30.19	29.56	90.16	777.07	-315.43	1,566.31	1,511.70	54.61	28.683		
7,550.00	7,488.66	7,543.29	7,490.54	30.37	29.73	90.31	777.11	-324.47	1,566.32	1,511.33	54.99	28.483		
7,600.00	7,535.62	7,594.05	7,539.47	30.56	29.91	90.46	777.17	-337.95	1,566.35	1,510.95	55.40	28.275		
7,650.00	7,580.90	7,645.19	7,587.36	30.76	30.09	90.61	777.25	-355.85	1,566.39	1,510.56	55.83	28.057		
7,700.00	7,624.18	7,696.70	7,633.78	30.97	30.29	90.75	777.35	-378.12	1,566.44	1,510.15	56.29	27.829		
7,750.00	7,665.10	7,748.57	7,678.33	31.18	30.49	90.88	777.46	-404.66	1,566.49	1,509.71	56.78	27.587		
7,800.00	7,703.37	7,800.80	7,720.57	31.40	30.70	91.01	777.60	-435.35	1,566.55	1,509.23	57.32	27.330		
7,850.00	7,738.70	7,853.37	7,760.09	31.64	30.93	91.13	777.75	-469.99	1,566.62	1,508.71	57.91	27.052		
7,900.00	7,770.80	7,906.27	7,796.48	31.90	31.17	91.24	777.92	-508.36	1,566.69	1,508.12	58.56	26.752		
7,950.00	7,799.45	7,959.48	7,829.36	32.18	31.45	91.34	778.10	-550.17	1,566.75	1,507.46	59.30	26.421		
8,000.00	7,824.41	8,012.96	7,858.36	32.49	31.75	91.44	778.30	-595.08	1,566.82	1,506.70	60.11	26.064		
8,050.00	7,845.51	8,066.70	7,883.15	32.83	32.11	91.52	778.51	-642.74	1,566.88	1,505.86	61.02	25.677		
8,100.00	7,862.58	8,120.66	7,903.45	33.22	32.51	91.59	778.73	-692.71	1,566.93	1,504.91	62.03	25.262		
8,150.00	7,875.49	8,174.81	7,919.00	33.65	32.97	91.64	778.95	-744.56	1,566.98	1,503.85	63.13	24.823		
8,200.00	7,884.14	8,229.10	7,929.61	34.13	33.49	91.68	779.19	-797.78	1,567.02	1,502.70	64.32	24.364		
8,250.00	7,888.47	8,283.50	7,935.15	34.65	34.06	91.71	779.42	-851.88	1,567.05	1,501.46	65.59	23.892		
8,274.69	7,889.00	8,310.39	7,935.98	34.93	34.36	91.72	779.54	-878.75	1,567.06	1,500.82	66.24	23.658		
8,300.00	7,889.00	8,336.06	7,936.00	35.22	34.66	91.72	779.65	-904.42	1,567.06	1,500.15	66.91	23.420		
8,400.00	7,889.00	8,436.06	7,936.00	36.48	35.93	91.72	780.09	-1,004.42	1,567.07	1,497.35	69.72	22.477		
8,500.00	7,889.00	8,536.06	7,936.00	37.92	37.36	91.72	780.53	-1,104.41	1,567.08	1,494.27	72.81	21.523		
8,600.00	7,889.00	8,636.06	7,936.00	39.49	38.93	91.72	780.96	-1,204.41	1,567.09	1,490.93	76.16	20.577		
8,700.00	7,888.99	8,736.06	7,936.00	41.20	40.62	91.72	781.40	-1,304.41	1,567.09	1,487.37	79.72	19.656		
8,800.00	7,888.99	8,836.06	7,936.00	43.01	42.42	91.72	781.84	-1,404.41	1,567.10	1,483.62	83.49	18.771		

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 5-6-8
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 5-6-8	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	7,888.99	8,936.06	7,936.00	44.92	44.32	91.72	782.28	-1,504.41	1,567.11	1,479.69	87.42	17.926		
9,000.00	7,888.99	9,036.06	7,936.00	46.91	46.29	91.72	782.72	-1,604.41	1,567.12	1,475.62	91.50	17.127		
9,100.00	7,888.99	9,136.06	7,936.00	48.97	48.34	91.72	783.15	-1,704.41	1,567.13	1,471.42	95.71	16.374		
9,200.00	7,888.99	9,236.06	7,936.00	51.09	50.45	91.72	783.59	-1,804.41	1,567.13	1,467.11	100.02	15.667		
9,300.00	7,888.99	9,336.06	7,936.00	53.27	52.61	91.72	784.03	-1,904.41	1,567.14	1,462.70	104.44	15.005		
9,400.00	7,888.99	9,436.06	7,935.99	55.49	54.82	91.72	784.47	-2,004.41	1,567.15	1,458.20	108.95	14.385		
9,500.00	7,888.99	9,536.06	7,935.99	57.75	57.07	91.72	784.90	-2,104.41	1,567.16	1,453.63	113.53	13.804		
9,600.00	7,888.99	9,636.06	7,935.99	60.05	59.36	91.72	785.34	-2,204.40	1,567.16	1,448.99	118.17	13.261		
9,700.00	7,888.98	9,736.06	7,935.99	62.38	61.68	91.72	785.78	-2,304.40	1,567.17	1,444.29	122.88	12.754		
9,800.00	7,888.98	9,836.06	7,935.99	64.74	64.03	91.72	786.22	-2,404.40	1,567.18	1,439.54	127.64	12.278		
9,900.00	7,888.98	9,936.06	7,935.99	67.13	66.41	91.72	786.65	-2,504.40	1,567.18	1,434.74	132.45	11.832		
10,000.00	7,888.98	10,036.06	7,935.99	69.54	68.81	91.72	787.09	-2,604.40	1,567.19	1,429.89	137.30	11.415		
10,100.00	7,888.98	10,136.06	7,935.99	71.96	71.23	91.72	787.53	-2,704.40	1,567.20	1,425.01	142.19	11.022		
10,200.00	7,888.98	10,236.06	7,935.99	74.41	73.67	91.72	787.97	-2,804.40	1,567.20	1,420.10	147.11	10.654		
10,300.00	7,888.98	10,336.06	7,935.99	76.87	76.13	91.72	788.40	-2,904.40	1,567.21	1,415.15	152.06	10.307		
10,400.00	7,888.98	10,436.06	7,935.99	79.35	78.60	91.72	788.84	-3,004.40	1,567.21	1,410.17	157.04	9.980		
10,500.00	7,888.98	10,536.06	7,935.99	81.84	81.09	91.72	789.28	-3,104.40	1,567.22	1,405.17	162.05	9.671		
10,600.00	7,888.98	10,636.06	7,935.99	84.35	83.58	91.72	789.72	-3,204.39	1,567.23	1,400.15	167.07	9.380		
10,700.00	7,888.98	10,736.06	7,935.99	86.86	86.09	91.72	790.15	-3,304.39	1,567.23	1,395.11	172.12	9.105		
10,800.00	7,888.98	10,836.06	7,935.99	89.39	88.62	91.72	790.59	-3,404.39	1,567.24	1,390.04	177.19	8.845		
10,900.00	7,888.98	10,936.06	7,935.99	91.93	91.15	91.72	791.03	-3,504.39	1,567.24	1,384.96	182.28	8.598		
11,000.00	7,888.97	11,036.06	7,935.99	94.47	93.69	91.72	791.47	-3,604.39	1,567.25	1,379.86	187.38	8.364		
11,100.00	7,888.97	11,136.06	7,935.99	97.02	96.24	91.72	791.91	-3,704.39	1,567.25	1,374.75	192.50	8.142		
11,200.00	7,888.97	11,236.06	7,935.99	99.58	98.79	91.72	792.34	-3,804.39	1,567.25	1,369.62	197.63	7.930		
11,300.00	7,888.97	11,336.06	7,935.99	102.15	101.35	91.72	792.78	-3,904.39	1,567.26	1,364.48	202.78	7.729		
11,400.00	7,888.97	11,436.06	7,935.98	104.72	103.92	91.72	793.22	-4,004.39	1,567.26	1,359.33	207.93	7.537		
11,500.00	7,888.97	11,536.06	7,935.98	107.30	106.50	91.72	793.66	-4,104.39	1,567.27	1,354.17	213.10	7.355		
11,600.00	7,888.97	11,636.06	7,935.98	109.88	109.08	91.72	794.09	-4,204.39	1,567.27	1,348.99	218.28	7.180		
11,700.00	7,888.97	11,736.06	7,935.98	112.47	111.66	91.72	794.53	-4,304.38	1,567.27	1,343.81	223.46	7.014		
11,800.00	7,888.97	11,836.06	7,935.98	115.06	114.25	91.72	794.97	-4,404.38	1,567.28	1,338.62	228.66	6.854		
11,900.00	7,888.97	11,936.06	7,935.98	117.66	116.85	91.72	795.41	-4,504.38	1,567.28	1,333.42	233.86	6.702		
12,000.00	7,888.97	12,036.06	7,935.98	120.26	119.45	91.72	795.84	-4,604.38	1,567.28	1,328.21	239.07	6.556		
12,100.00	7,888.97	12,136.06	7,935.98	122.87	122.05	91.72	796.28	-4,704.38	1,567.29	1,322.99	244.29	6.416		
12,200.00	7,888.97	12,236.06	7,935.98	125.48	124.66	91.72	796.72	-4,804.38	1,567.29	1,317.77	249.52	6.281		
12,300.00	7,888.97	12,336.06	7,935.98	128.09	127.27	91.72	797.16	-4,904.38	1,567.29	1,312.54	254.75	6.152		
12,400.00	7,888.97	12,436.06	7,935.98	130.70	129.88	91.72	797.59	-5,004.38	1,567.29	1,307.31	259.99	6.028		
12,500.00	7,888.97	12,536.06	7,935.98	133.32	132.50	91.72	798.03	-5,104.38	1,567.29	1,302.06	265.23	5.909		
12,600.00	7,888.97	12,636.06	7,935.98	135.94	135.12	91.72	798.47	-5,204.38	1,567.30	1,296.82	270.48	5.795		
12,700.00	7,888.97	12,736.06	7,935.98	138.57	137.74	91.72	798.91	-5,304.37	1,567.30	1,291.57	275.73	5.684		
12,800.00	7,888.97	12,836.06	7,935.98	141.19	140.37	91.72	799.35	-5,404.37	1,567.30	1,286.31	280.99	5.578		
12,900.00	7,888.97	12,936.06	7,935.98	143.82	142.99	91.72	799.78	-5,504.37	1,567.30	1,281.05	286.25	5.475		
13,000.00	7,888.97	13,036.06	7,935.98	146.45	145.62	91.72	800.22	-5,604.37	1,567.30	1,275.78	291.52	5.376		
13,100.00	7,888.97	13,136.06	7,935.98	149.09	148.26	91.72	800.66	-5,704.37	1,567.30	1,270.51	296.79	5.281		
13,200.00	7,888.97	13,236.06	7,935.98	151.72	150.89	91.72	801.10	-5,804.37	1,567.31	1,265.24	302.06	5.189		
13,300.00	7,888.97	13,336.06	7,935.98	154.36	153.53	91.72	801.53	-5,904.37	1,567.31	1,259.96	307.34	5.100		
13,400.00	7,888.97	13,436.06	7,935.98	157.00	156.16	91.72	801.97	-6,004.37	1,567.31	1,254.68	312.62	5.013		
13,500.00	7,888.97	13,536.06	7,935.97	159.64	158.80	91.72	802.41	-6,104.37	1,567.31	1,249.40	317.91	4.930		
13,600.00	7,888.97	13,636.06	7,935.97	162.28	161.44	91.72	802.85	-6,204.37	1,567.31	1,244.11	323.19	4.849		
13,700.00	7,888.97	13,736.06	7,935.97	164.93	164.09	91.72	803.28	-6,304.37	1,567.31	1,238.82	328.48	4.771		
13,800.00	7,888.97	13,836.06	7,935.97	167.57	166.73	91.72	803.72	-6,404.36	1,567.31	1,233.53	333.78	4.696		
13,900.00	7,888.97	13,936.06	7,935.97	170.22	169.38	91.72	804.16	-6,504.36	1,567.31	1,228.23	339.07	4.622		
14,000.00	7,888.97	14,036.06	7,935.97	172.87	172.02	91.72	804.60	-6,604.36	1,567.31	1,222.93	344.37	4.551		

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 5-6-8
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 5-6-8	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		
14,100.00	7,888.97	14,136.06	7,935.97	175.51	174.67	91.72	805.03	-6,704.36	1,567.31	1,217.63	349.67	4.482		
14,200.00	7,888.97	14,236.06	7,935.97	178.16	177.32	91.72	805.47	-6,804.36	1,567.30	1,212.33	354.98	4.415		
14,300.00	7,888.97	14,336.06	7,935.97	180.82	179.97	91.72	805.91	-6,904.36	1,567.30	1,207.02	360.28	4.350		
14,400.00	7,888.97	14,436.06	7,935.97	183.47	182.62	91.72	806.35	-7,004.36	1,567.30	1,201.71	365.59	4.287		
14,500.00	7,888.97	14,536.06	7,935.97	186.12	185.28	91.72	806.78	-7,104.36	1,567.30	1,196.40	370.90	4.226		
14,600.00	7,888.97	14,636.06	7,935.97	188.78	187.93	91.72	807.22	-7,204.36	1,567.30	1,191.09	376.21	4.166		
14,700.00	7,888.97	14,736.06	7,935.97	191.43	190.59	91.72	807.66	-7,304.36	1,567.30	1,185.78	381.52	4.108		
14,800.00	7,888.97	14,836.06	7,935.97	194.09	193.24	91.72	808.10	-7,404.35	1,567.30	1,180.46	386.84	4.052		
14,900.00	7,888.97	14,936.06	7,935.97	196.75	195.90	91.72	808.54	-7,504.35	1,567.29	1,175.14	392.15	3.997		
15,000.00	7,888.97	15,036.06	7,935.97	199.41	198.56	91.72	808.97	-7,604.35	1,567.29	1,169.82	397.47	3.943		
15,100.00	7,888.97	15,136.06	7,935.97	202.07	201.21	91.72	809.41	-7,704.35	1,567.29	1,164.50	402.79	3.891		
15,200.00	7,888.97	15,236.06	7,935.97	204.73	203.87	91.72	809.85	-7,804.35	1,567.29	1,159.18	408.11	3.840		
15,300.00	7,888.98	15,336.06	7,935.97	207.39	206.53	91.72	810.29	-7,904.35	1,567.29	1,153.85	413.43	3.791		
15,400.00	7,888.98	15,436.06	7,935.97	210.05	209.20	91.72	810.72	-8,004.35	1,567.28	1,148.52	418.76	3.743		
15,500.00	7,888.98	15,536.06	7,935.97	212.71	211.86	91.72	811.16	-8,104.35	1,567.28	1,143.19	424.08	3.696		
15,600.00	7,888.98	15,636.06	7,935.96	215.37	214.52	91.72	811.60	-8,204.35	1,567.28	1,137.86	429.41	3.650		
15,700.00	7,888.98	15,736.06	7,935.96	218.04	217.18	91.72	812.04	-8,304.35	1,567.27	1,132.53	434.74	3.605		
15,800.00	7,888.98	15,836.06	7,935.96	220.70	219.85	91.72	812.47	-8,404.35	1,567.27	1,127.20	440.07	3.561		
15,900.00	7,888.98	15,936.06	7,935.96	223.37	222.51	91.72	812.91	-8,504.34	1,567.27	1,121.87	445.40	3.519		
16,000.00	7,888.98	16,036.06	7,935.96	226.03	225.18	91.72	813.35	-8,604.34	1,567.26	1,116.53	450.73	3.477		
16,100.00	7,888.98	16,136.06	7,935.96	228.70	227.84	91.72	813.79	-8,704.34	1,567.26	1,111.20	456.06	3.437		
16,200.00	7,888.98	16,236.06	7,935.96	231.37	230.51	91.72	814.22	-8,804.34	1,567.25	1,105.86	461.40	3.397		
16,300.00	7,888.98	16,336.06	7,935.96	234.03	233.17	91.72	814.66	-8,904.34	1,567.25	1,100.52	466.73	3.358		
16,400.00	7,888.98	16,436.06	7,935.96	236.70	235.84	91.72	815.10	-9,004.34	1,567.24	1,095.18	472.07	3.320		
16,500.00	7,888.98	16,536.06	7,935.96	239.37	238.51	91.72	815.54	-9,104.34	1,567.24	1,089.84	477.40	3.283		
16,600.00	7,888.98	16,636.06	7,935.96	242.04	241.18	91.72	815.97	-9,204.34	1,567.23	1,084.50	482.74	3.247		
16,700.00	7,888.99	16,736.06	7,935.96	244.71	243.85	91.72	816.41	-9,304.34	1,567.23	1,079.15	488.08	3.211		
16,800.00	7,888.99	16,836.06	7,935.96	247.38	246.51	91.72	816.85	-9,404.34	1,567.22	1,073.81	493.42	3.176		
16,900.00	7,888.99	16,936.06	7,935.96	250.05	249.18	91.72	817.29	-9,504.33	1,567.22	1,068.46	498.76	3.142		
17,000.00	7,888.99	17,036.06	7,935.96	252.72	251.85	91.72	817.73	-9,604.33	1,567.21	1,063.12	504.10	3.109		
17,100.00	7,888.99	17,136.06	7,935.96	255.39	254.52	91.72	818.16	-9,704.33	1,567.21	1,057.77	509.44	3.076		
17,200.00	7,888.99	17,236.06	7,935.96	258.06	257.20	91.72	818.60	-9,804.33	1,567.20	1,052.42	514.78	3.044		
17,300.00	7,888.99	17,336.06	7,935.96	260.73	259.87	91.72	819.04	-9,904.33	1,567.20	1,047.07	520.12	3.013		
17,400.00	7,888.99	17,436.06	7,935.96	263.40	262.54	91.72	819.48	-10,004.33	1,567.19	1,041.72	525.47	2.982		
17,500.00	7,888.99	17,536.06	7,935.96	266.07	265.21	91.72	819.91	-10,104.33	1,567.18	1,036.37	530.81	2.952		
17,600.00	7,889.00	17,636.06	7,935.95	268.75	267.88	91.72	820.35	-10,204.33	1,567.18	1,031.02	536.16	2.923		
17,700.00	7,889.00	17,736.06	7,935.95	271.42	270.56	91.72	820.79	-10,304.33	1,567.17	1,025.67	541.50	2.894		
17,800.00	7,889.00	17,836.06	7,935.95	274.09	273.23	91.72	821.23	-10,404.33	1,567.16	1,020.32	546.85	2.866		
17,900.00	7,889.00	17,937.38	7,935.97	276.77	275.94	91.72	821.64	-10,505.64	1,567.12	1,014.90	552.23	2.838		
17,961.29	7,889.00	17,998.66	7,936.00	278.41	277.58	91.72	821.85	-10,566.93	1,567.07	1,011.56	555.51	2.821 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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	-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	999.98	999.98	999.98	3.34	3.36	69.26	0.00	-106.87	106.24	99.54	6.70	15.848		
1,100.00	1,099.84	1,097.92	1,097.90	3.68	3.71	72.67	1.48	-107.66	105.41	98.03	7.38	14.280		
1,113.77	1,113.57	1,111.36	1,111.33	3.72	3.76	73.40	1.91	-107.90	105.39	97.92	7.48	14.098	CC, ES	
1,200.00	1,199.45	1,210.36	1,194.69	4.01	4.11	79.25	5.83	-109.99	106.30	98.18	8.12	13.097		
1,300.00	1,298.70	1,306.71	1,292.89	4.36	4.46	88.16	11.97	-113.27	109.90	101.09	8.81	12.473		
1,303.95	1,302.61	1,302.84	1,296.76	4.38	4.45	88.53	12.21	-113.40	110.09	101.28	8.81	12.495		
1,400.00	1,397.71	1,408.59	1,390.77	4.73	4.83	97.26	18.08	-116.54	116.29	106.75	9.54	12.190		
1,500.00	1,496.72	1,489.53	1,488.64	5.11	5.12	105.27	24.19	-119.81	125.35	115.15	10.20	12.290		
1,600.00	1,595.72	1,587.65	1,586.51	5.49	5.48	112.11	30.31	-123.08	136.56	125.64	10.92	12.502		
1,700.00	1,694.73	1,685.76	1,684.39	5.89	5.84	117.87	36.42	-126.35	149.44	137.79	11.65	12.831		
1,800.00	1,793.74	1,783.88	1,782.26	6.28	6.20	122.69	42.53	-129.62	163.58	151.21	12.37	13.225		
1,900.00	1,892.75	1,882.00	1,880.14	6.69	6.56	126.74	48.65	-132.89	178.69	165.60	13.09	13.651		
2,000.00	1,991.75	1,980.12	1,978.01	7.09	6.92	130.14	54.76	-136.16	194.55	180.74	13.81	14.087		
2,100.00	2,090.76	2,078.24	2,075.88	7.50	7.29	133.03	60.88	-139.43	210.98	196.45	14.53	14.519		
2,200.00	2,189.77	2,176.36	2,173.76	7.91	7.65	135.51	66.99	-142.70	227.86	212.61	15.25	14.940		
2,300.00	2,288.78	2,274.48	2,271.63	8.33	8.01	137.64	73.10	-145.97	245.10	229.13	15.97	15.345		
2,400.00	2,387.78	2,372.60	2,369.50	8.74	8.38	139.49	79.22	-149.24	262.63	245.94	16.69	15.733		
2,500.00	2,486.79	2,470.71	2,467.38	9.16	8.74	141.10	85.33	-152.51	280.39	262.98	17.41	16.101		
2,600.00	2,585.80	2,568.83	2,565.25	9.58	9.11	142.53	91.44	-155.78	298.35	280.21	18.14	16.450		
2,700.00	2,684.81	2,666.95	2,663.12	10.00	9.47	143.79	97.56	-159.05	316.46	297.60	18.86	16.781		
2,800.00	2,783.82	2,765.07	2,761.00	10.42	9.84	144.92	103.67	-162.32	334.71	315.13	19.58	17.093		
2,900.00	2,882.82	2,863.19	2,858.87	10.84	10.20	145.93	109.79	-165.59	353.07	332.76	20.30	17.389		
3,000.00	2,981.83	2,961.31	2,956.74	11.27	10.57	146.84	115.90	-168.86	371.52	350.50	21.03	17.668		
3,100.00	3,080.84	3,059.43	3,054.62	11.69	10.93	147.67	122.01	-172.13	390.06	368.31	21.75	17.932		
3,200.00	3,179.85	3,157.54	3,152.49	12.11	11.30	148.42	128.13	-175.40	408.67	386.19	22.48	18.183		
3,300.00	3,278.85	3,255.66	3,250.36	12.54	11.66	149.10	134.24	-178.67	427.34	404.14	23.20	18.419		
3,400.00	3,377.86	3,353.78	3,348.24	12.96	12.03	149.73	140.35	-181.94	446.07	422.14	23.93	18.644		
3,500.00	3,476.87	3,451.90	3,446.11	13.39	12.40	150.31	146.47	-185.21	464.84	440.19	24.65	18.857		
3,600.00	3,575.88	3,550.02	3,543.98	13.82	12.76	150.84	152.58	-188.48	483.65	458.28	25.38	19.059		
3,700.00	3,674.88	3,648.14	3,641.86	14.24	13.13	151.33	158.70	-191.75	502.50	476.40	26.10	19.252		
3,800.00	3,773.89	3,746.26	3,739.73	14.67	13.50	151.79	164.81	-195.02	521.39	494.56	26.83	19.434		
3,900.00	3,872.90	3,844.38	3,837.60	15.10	13.86	152.21	170.92	-198.29	540.30	512.75	27.55	19.609		
4,000.00	3,971.91	3,942.49	3,935.48	15.53	14.23	152.61	177.04	-201.56	559.25	530.96	28.28	19.775		
4,100.00	4,070.91	4,040.61	4,033.35	15.96	14.60	152.98	183.15	-204.83	578.21	549.20	29.01	19.933		
4,200.00	4,169.92	4,138.73	4,131.22	16.39	14.96	153.33	189.27	-208.10	597.20	567.46	29.73	20.084		
4,300.00	4,268.93	4,236.85	4,229.10	16.81	15.33	153.65	195.38	-211.37	616.21	585.74	30.46	20.229		
4,400.00	4,367.94	4,334.97	4,326.97	17.24	15.70	153.96	201.49	-214.64	635.23	604.04	31.19	20.367		
4,500.00	4,466.94	4,433.09	4,424.84	17.67	16.06	154.25	207.61	-217.91	654.27	622.36	31.92	20.499		
4,600.00	4,565.95	4,531.21	4,522.72	18.10	16.43	154.52	213.72	-221.18	673.33	640.68	32.65	20.626		
4,700.00	4,664.96	4,629.32	4,620.59	18.53	16.80	154.77	219.83	-224.45	692.40	659.03	33.37	20.747		
4,800.00	4,763.97	4,727.44	4,718.46	18.96	17.17	155.02	225.95	-227.72	711.48	677.38	34.10	20.864		
4,900.00	4,862.97	4,825.56	4,816.34	19.39	17.53	155.25	232.06	-230.99	730.58	695.75	34.83	20.976		

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 5-6-8
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 5-6-8	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 5-6-5 - 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	4,961.98	4,923.68	4,914.21	19.82	17.90	155.47	238.18	-234.26	749.68	714.13	35.56	21.083		
5,100.00	5,060.99	5,021.80	5,012.08	20.25	18.27	155.67	244.29	-237.53	768.80	732.51	36.29	21.187		
5,200.00	5,160.00	5,119.92	5,109.96	20.68	18.63	155.87	250.40	-240.80	787.93	750.91	37.02	21.287		
5,300.00	5,259.00	5,218.04	5,207.83	21.11	19.00	156.06	256.52	-244.07	807.06	769.32	37.74	21.382		
5,400.00	5,358.01	5,316.16	5,305.70	21.55	19.37	156.24	262.63	-247.34	826.20	787.73	38.47	21.475		
5,500.00	5,457.02	5,414.27	5,403.58	21.98	19.74	156.41	268.74	-250.61	845.35	806.15	39.20	21.564		
5,600.00	5,556.03	5,512.39	5,501.45	22.41	20.10	156.58	274.86	-253.88	864.51	824.58	39.93	21.650		
5,700.00	5,655.03	5,610.51	5,599.32	22.84	20.47	156.73	280.97	-257.15	883.67	843.01	40.66	21.733		
5,800.00	5,754.04	5,708.63	5,697.20	23.27	20.84	156.88	287.09	-260.42	902.84	861.45	41.39	21.813		
5,900.00	5,853.05	5,806.75	5,795.07	23.70	21.21	157.03	293.20	-263.69	922.01	879.89	42.12	21.890		
6,000.00	5,952.06	5,904.87	5,892.94	24.13	21.57	157.16	299.31	-266.96	941.19	898.34	42.85	21.965		
6,100.00	6,051.06	6,002.99	5,990.82	24.56	21.94	157.30	305.43	-270.23	960.38	916.80	43.58	22.038		
6,200.00	6,150.07	6,101.10	6,088.69	25.00	22.31	157.42	311.54	-273.50	979.57	935.26	44.31	22.108		
6,300.00	6,249.08	6,200.78	6,186.56	25.43	22.68	157.55	317.65	-276.77	998.76	953.72	45.04	22.173		
6,400.00	6,348.09	6,297.34	6,284.44	25.86	23.04	157.66	323.77	-280.04	1,017.96	972.19	45.77	22.241		
6,500.00	6,447.09	6,404.54	6,382.31	26.29	23.45	157.78	329.88	-283.31	1,037.16	990.63	46.53	22.289		
6,600.00	6,546.10	6,506.42	6,480.18	26.72	23.83	157.89	336.00	-286.58	1,056.37	1,009.09	47.28	22.344		
6,700.00	6,645.11	6,608.30	6,578.06	27.15	24.21	157.99	342.11	-289.85	1,075.58	1,027.56	48.02	22.398		
6,800.00	6,744.12	6,689.82	6,675.93	27.59	24.51	158.09	348.22	-293.12	1,094.79	1,046.10	48.69	22.485		
6,900.00	6,843.12	6,787.94	6,773.80	28.02	24.88	158.19	354.34	-296.39	1,114.01	1,064.59	49.42	22.541		
6,940.67	6,883.39	6,827.84	6,813.61	28.19	25.03	158.23	356.82	-297.72	1,121.83	1,072.11	49.72	22.564		
7,000.00	6,942.21	6,886.16	6,871.79	28.45	25.25	158.36	360.46	-299.66	1,132.67	1,082.52	50.15	22.585		
7,100.00	7,041.68	6,984.91	6,970.29	28.85	25.62	158.50	366.61	-302.95	1,148.40	1,097.52	50.88	22.572		
7,200.00	7,141.44	7,084.12	7,069.25	29.22	25.99	158.54	372.79	-306.26	1,160.91	1,109.31	51.60	22.499		
7,300.00	7,241.39	7,231.45	7,216.38	29.56	26.53	158.51	379.26	-309.71	1,168.45	1,115.85	52.60	22.212		
7,344.62	7,286.00	7,301.08	7,286.00	29.69	26.77	0.14	380.00	-310.11	1,169.25	1,116.22	53.03	22.047		
7,358.03	7,299.41	7,322.01	7,306.93	29.73	26.85	0.14	379.93	-310.08	1,169.21	1,116.05	53.16	21.995		
7,374.62	7,316.00	7,331.08	7,316.00	29.78	26.88	0.14	380.00	-310.11	1,169.25	1,116.02	53.23	21.964		
7,400.00	7,341.37	7,356.36	7,341.28	29.85	26.96	89.89	380.00	-310.67	1,169.25	1,115.85	53.41	21.893		
7,450.00	7,391.17	7,406.16	7,390.87	30.02	27.14	89.89	380.02	-315.03	1,169.25	1,115.49	53.77	21.747		
7,500.00	7,440.39	7,455.97	7,439.91	30.19	27.32	89.90	380.06	-323.67	1,169.26	1,115.11	54.14	21.596		
7,550.00	7,488.66	7,505.78	7,488.01	30.37	27.52	89.90	380.12	-336.54	1,169.26	1,114.72	54.54	21.439		
7,600.00	7,535.62	7,555.59	7,534.82	30.56	27.71	89.90	380.19	-353.54	1,169.26	1,114.30	54.96	21.276		
7,650.00	7,580.90	7,605.42	7,579.98	30.76	27.92	89.91	380.28	-374.54	1,169.26	1,113.86	55.40	21.107		
7,700.00	7,624.18	7,655.24	7,623.15	30.97	28.14	89.91	380.39	-399.39	1,169.26	1,113.40	55.87	20.930		
7,750.00	7,665.10	7,705.08	7,664.01	31.18	28.37	89.92	380.52	-427.90	1,169.26	1,112.90	56.37	20.743		
7,800.00	7,703.37	7,754.93	7,702.25	31.40	28.61	89.92	380.66	-459.86	1,169.27	1,112.35	56.91	20.545		
7,850.00	7,738.70	7,804.79	7,737.57	31.64	28.89	89.93	380.81	-495.03	1,169.27	1,111.76	57.51	20.332		
7,900.00	7,770.80	7,854.67	7,769.71	31.90	29.19	89.94	380.98	-533.14	1,169.27	1,111.10	58.17	20.101		
7,950.00	7,799.45	7,904.55	7,798.42	32.18	29.52	89.94	381.15	-573.92	1,169.28	1,110.38	58.90	19.852		
8,000.00	7,824.41	7,954.45	7,823.48	32.49	29.90	89.95	381.34	-617.05	1,169.28	1,109.57	59.71	19.583		
8,050.00	7,845.51	8,004.37	7,844.71	32.83	30.32	89.96	381.54	-662.21	1,169.28	1,108.68	60.61	19.293		
8,100.00	7,862.58	8,054.30	7,861.93	33.22	30.79	89.97	381.75	-709.06	1,169.29	1,107.70	61.59	18.985		
8,150.00	7,875.49	8,104.25	7,875.01	33.65	31.30	89.98	381.96	-757.25	1,169.29	1,106.63	62.66	18.660		
8,200.00	7,884.14	8,154.21	7,883.84	34.13	31.85	89.99	382.17	-806.41	1,169.30	1,105.48	63.82	18.323		
8,250.00	7,888.47	8,204.20	7,888.37	34.65	32.44	90.00	382.39	-856.17	1,169.30	1,104.26	65.04	17.978		
8,274.69	7,889.00	8,233.40	7,889.00	34.93	32.80	90.00	382.50	-880.85	1,169.30	1,103.58	65.72	17.791		
8,300.00	7,889.00	8,254.19	7,889.00	35.22	33.07	90.00	382.61	-906.16	1,169.30	1,102.97	66.33	17.627		
8,400.00	7,889.00	8,354.19	7,889.00	36.48	34.44	90.00	383.04	-1,006.16	1,169.31	1,100.15	69.16	16.908		
8,500.00	7,889.00	8,454.19	7,889.00	37.92	35.95	90.00	383.48	-1,106.16	1,169.32	1,097.06	72.26	16.181		
8,600.00	7,889.00	8,554.19	7,889.00	39.49	37.60	90.00	383.92	-1,206.16	1,169.33	1,093.71	75.62	15.463		
8,700.00	7,888.99	8,654.19	7,889.00	41.20	39.36	90.00	384.36	-1,306.16	1,169.34	1,090.13	79.21	14.763		

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 5-6-8
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 5-6-8	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 4-6S 5-6-5 - 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				
8,800.00	7,888.99	8,754.19	7,889.00	43.01	41.22	90.00	384.79	-1,406.15	1,169.35	1,086.36	82.98	14.091				
8,900.00	7,888.99	8,854.19	7,889.00	44.92	43.17	90.00	385.23	-1,506.15	1,169.35	1,082.42	86.93	13.451				
9,000.00	7,888.99	8,954.19	7,889.00	46.91	45.20	90.00	385.67	-1,606.15	1,169.36	1,078.34	91.03	12.847				
9,100.00	7,888.99	9,054.19	7,889.00	48.97	47.29	90.00	386.10	-1,706.15	1,169.37	1,074.12	95.25	12.277				
9,200.00	7,888.99	9,154.19	7,889.00	51.09	49.44	90.00	386.54	-1,806.15	1,169.38	1,069.80	99.58	11.743				
9,300.00	7,888.99	9,254.19	7,889.00	53.27	51.64	90.00	386.98	-1,906.15	1,169.38	1,065.37	104.01	11.243				
9,400.00	7,888.99	9,354.19	7,889.00	55.49	53.89	90.00	387.42	-2,006.15	1,169.39	1,060.86	108.53	10.775				
9,500.00	7,888.99	9,454.19	7,889.00	57.75	56.17	90.00	387.85	-2,106.15	1,169.40	1,056.28	113.12	10.337				
9,600.00	7,888.99	9,554.19	7,889.00	60.05	58.49	90.00	388.29	-2,206.15	1,169.40	1,051.62	117.78	9.929				
9,700.00	7,888.98	9,654.19	7,889.00	62.38	60.84	90.00	388.73	-2,306.15	1,169.41	1,046.91	122.50	9.546				
9,800.00	7,888.98	9,754.19	7,889.00	64.74	63.22	90.00	389.16	-2,406.15	1,169.42	1,042.15	127.27	9.188				
9,900.00	7,888.98	9,854.19	7,889.00	67.13	65.62	90.00	389.60	-2,506.14	1,169.42	1,037.33	132.09	8.853				
10,000.00	7,888.98	9,954.19	7,889.00	69.54	68.04	90.00	390.04	-2,606.14	1,169.43	1,032.48	136.95	8.539				
10,100.00	7,888.98	10,054.19	7,889.00	71.96	70.49	90.00	390.48	-2,706.14	1,169.43	1,027.59	141.85	8.244				
10,200.00	7,888.98	10,154.19	7,889.00	74.41	72.95	90.00	390.91	-2,806.14	1,169.44	1,022.66	146.78	7.967				
10,300.00	7,888.98	10,254.19	7,889.00	76.87	75.42	90.00	391.35	-2,906.14	1,169.45	1,017.71	151.74	7.707				
10,400.00	7,888.98	10,354.19	7,889.00	79.35	77.91	90.00	391.79	-3,006.14	1,169.45	1,012.72	156.73	7.462				
10,500.00	7,888.98	10,454.19	7,889.00	81.84	80.42	90.00	392.22	-3,106.14	1,169.46	1,007.71	161.74	7.230				
10,600.00	7,888.98	10,554.19	7,889.00	84.35	82.93	90.00	392.66	-3,206.14	1,169.46	1,002.68	166.78	7.012				
10,700.00	7,888.98	10,654.19	7,889.00	86.86	85.45	90.00	393.10	-3,306.14	1,169.47	997.63	171.84	6.806				
10,800.00	7,888.98	10,754.19	7,889.00	89.39	87.99	90.00	393.54	-3,406.14	1,169.47	992.56	176.91	6.610				
10,900.00	7,888.98	10,854.19	7,889.00	91.93	90.53	90.00	393.97	-3,506.13	1,169.47	987.47	182.01	6.425				
11,000.00	7,888.97	10,954.19	7,889.00	94.47	93.09	90.00	394.41	-3,606.13	1,169.48	982.36	187.12	6.250				
11,100.00	7,888.97	11,054.19	7,889.00	97.02	95.65	90.00	394.85	-3,706.13	1,169.48	977.24	192.24	6.083				
11,200.00	7,888.97	11,154.19	7,889.00	99.58	98.21	90.00	395.28	-3,806.13	1,169.49	972.11	197.38	5.925				
11,300.00	7,888.97	11,254.19	7,889.00	102.15	100.79	90.00	395.72	-3,906.13	1,169.49	966.96	202.53	5.774				
11,400.00	7,888.97	11,354.19	7,889.00	104.72	103.36	90.00	396.16	-4,006.13	1,169.49	961.80	207.69	5.631				
11,500.00	7,888.97	11,454.19	7,889.00	107.30	105.95	90.00	396.60	-4,106.13	1,169.50	956.63	212.87	5.494				
11,600.00	7,888.97	11,554.19	7,889.00	109.88	108.54	90.00	397.03	-4,206.13	1,169.50	951.45	218.05	5.363				
11,700.00	7,888.97	11,654.19	7,889.00	112.47	111.13	90.00	397.47	-4,306.13	1,169.50	946.26	223.24	5.239				
11,800.00	7,888.97	11,754.19	7,889.00	115.06	113.73	90.00	397.91	-4,406.13	1,169.51	941.06	228.44	5.119				
11,900.00	7,888.97	11,854.19	7,889.00	117.66	116.33	90.00	398.34	-4,506.13	1,169.51	935.86	233.65	5.005				
12,000.00	7,888.97	11,954.19	7,889.00	120.26	118.94	90.00	398.78	-4,606.12	1,169.51	930.64	238.87	4.896				
12,100.00	7,888.97	12,054.19	7,889.00	122.87	121.55	90.00	399.22	-4,706.12	1,169.51	925.42	244.09	4.791				
12,200.00	7,888.97	12,154.19	7,889.00	125.48	124.17	90.00	399.66	-4,806.12	1,169.52	920.19	249.32	4.691				
12,300.00	7,888.97	12,254.19	7,889.00	128.09	126.78	90.00	400.09	-4,906.12	1,169.52	914.96	254.56	4.594				
12,400.00	7,888.97	12,354.19	7,888.99	130.70	129.40	90.00	400.53	-5,006.12	1,169.52	909.72	259.80	4.502				
12,500.00	7,888.97	12,454.19	7,888.99	133.32	132.03	90.00	400.97	-5,106.12	1,169.52	904.47	265.05	4.412				
12,600.00	7,888.97	12,554.19	7,888.99	135.94	134.65	90.00	401.40	-5,206.12	1,169.52	899.22	270.30	4.327				
12,700.00	7,888.97	12,654.19	7,888.99	138.57	137.28	90.00	401.84	-5,306.12	1,169.52	893.96	275.56	4.244				
12,800.00	7,888.97	12,754.19	7,888.99	141.19	139.91	90.00	402.28	-5,406.12	1,169.53	888.70	280.82	4.165				
12,900.00	7,888.97	12,854.19	7,888.99	143.82	142.54	90.00	402.72	-5,506.12	1,169.53	883.44	286.09	4.088				
13,000.00	7,888.97	12,954.19	7,888.99	146.45	145.18	90.00	403.15	-5,606.11	1,169.53	878.17	291.36	4.014				
13,100.00	7,888.97	13,054.19	7,888.99	149.09	147.81	90.00	403.59	-5,706.11	1,169.53	872.89	296.64	3.943				
13,200.00	7,888.97	13,154.19	7,888.99	151.72	150.45	90.00	404.03	-5,806.11	1,169.53	867.61	301.92	3.874				
13,300.00	7,888.97	13,254.19	7,888.99	154.36	153.09	90.00	404.46	-5,906.11	1,169.53	862.33	307.20	3.807				
13,400.00	7,888.97	13,354.19	7,888.99	157.00	155.73	90.00	404.90	-6,006.11	1,169.53	857.05	312.48	3.743				
13,500.00	7,888.97	13,454.19	7,888.99	159.64	158.38	90.00	405.34	-6,106.11	1,169.53	851.76	317.77	3.680				
13,600.00	7,888.97	13,554.19	7,888.99	162.28	161.02	90.00	405.78	-6,206.11	1,169.53	846.46	323.06	3.620				
13,700.00	7,888.97	13,654.19	7,888.99	164.93	163.67	90.00	406.21	-6,306.11	1,169.53	841.17	328.36	3.562				
13,800.00	7,888.97	13,754.19	7,888.99	167.57	166.32	90.00	406.65	-6,406.11	1,169.53	835.87	333.66	3.505				
13,900.00	7,888.97	13,854.19	7,888.99	170.22	168.97	90.00	407.09	-6,506.11	1,169.53	830.57	338.96	3.450				

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 5-6-8
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 5-6-8	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 5-6-5 - 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							
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	7,888.97	13,954.19	7,888.99	172.87	171.62	90.00	407.53	-6,606.11	1,169.53	825.27	344.26	3.397		
14,100.00	7,888.97	14,054.19	7,888.99	175.51	174.27	90.00	407.96	-6,706.10	1,169.52	819.96	349.56	3.346		
14,200.00	7,888.97	14,154.19	7,888.99	178.16	176.92	90.00	408.40	-6,806.10	1,169.52	814.65	354.87	3.296		
14,300.00	7,888.97	14,254.19	7,888.99	180.82	179.58	90.00	408.84	-6,906.10	1,169.52	809.34	360.18	3.247		
14,400.00	7,888.97	14,354.19	7,888.99	183.47	182.23	90.00	409.27	-7,006.10	1,169.52	804.03	365.49	3.200		
14,500.00	7,888.97	14,454.19	7,888.99	186.12	184.89	90.00	409.71	-7,106.10	1,169.52	798.72	370.80	3.154		
14,600.00	7,888.97	14,554.19	7,888.99	188.78	187.54	90.00	410.15	-7,206.10	1,169.52	793.40	376.12	3.109		
14,700.00	7,888.97	14,654.19	7,888.99	191.43	190.20	90.00	410.59	-7,306.10	1,169.52	788.08	381.43	3.066		
14,800.00	7,888.97	14,754.19	7,888.99	194.09	192.86	90.00	411.02	-7,406.10	1,169.51	782.76	386.75	3.024		
14,900.00	7,888.97	14,854.19	7,888.99	196.75	195.52	90.00	411.46	-7,506.10	1,169.51	777.44	392.07	2.983		
15,000.00	7,888.97	14,954.19	7,888.99	199.41	198.18	90.00	411.90	-7,606.10	1,169.51	772.11	397.39	2.943		
15,100.00	7,888.97	15,054.19	7,888.99	202.07	200.84	90.00	412.33	-7,706.09	1,169.51	766.79	402.72	2.904		
15,200.00	7,888.97	15,154.19	7,888.99	204.73	203.50	90.00	412.77	-7,806.09	1,169.50	761.46	408.04	2.866		
15,300.00	7,888.98	15,254.19	7,888.99	207.39	206.17	90.00	413.21	-7,906.09	1,169.50	756.13	413.37	2.829		
15,400.00	7,888.98	15,354.19	7,888.99	210.05	208.83	90.00	413.65	-8,006.09	1,169.50	750.80	418.70	2.793		
15,500.00	7,888.98	15,454.19	7,888.99	212.71	211.49	90.00	414.08	-8,106.09	1,169.49	745.47	424.03	2.758		
15,600.00	7,888.98	15,554.19	7,888.99	215.37	214.16	90.00	414.52	-8,206.09	1,169.49	740.13	429.36	2.724		
15,700.00	7,888.98	15,654.19	7,888.99	218.04	216.82	90.00	414.96	-8,306.09	1,169.48	734.80	434.69	2.690		
15,800.00	7,888.98	15,754.19	7,888.99	220.70	219.49	90.00	415.39	-8,406.09	1,169.48	729.46	440.02	2.658		
15,900.00	7,888.98	15,854.19	7,888.99	223.37	222.16	90.00	415.83	-8,506.09	1,169.48	724.12	445.35	2.626		
16,000.00	7,888.98	15,954.19	7,888.99	226.03	224.82	90.00	416.27	-8,606.09	1,169.47	718.78	450.69	2.595		
16,100.00	7,888.98	16,054.19	7,888.99	228.70	227.49	90.00	416.71	-8,706.09	1,169.47	713.44	456.02	2.564		
16,200.00	7,888.98	16,154.19	7,888.99	231.37	230.16	90.00	417.14	-8,806.08	1,169.46	708.10	461.36	2.535		
16,300.00	7,888.98	16,254.19	7,888.99	234.03	232.83	90.00	417.58	-8,906.08	1,169.46	702.76	466.70	2.506		
16,400.00	7,888.98	16,354.19	7,888.99	236.70	235.50	90.00	418.02	-9,006.08	1,169.45	697.42	472.04	2.477		
16,500.00	7,888.98	16,454.19	7,888.99	239.37	238.17	90.00	418.45	-9,106.08	1,169.45	692.07	477.38	2.450		
16,600.00	7,888.98	16,554.19	7,888.99	242.04	240.84	90.00	418.89	-9,206.08	1,169.44	686.73	482.72	2.423		
16,700.00	7,888.99	16,654.19	7,888.99	244.71	243.51	90.00	419.33	-9,306.08	1,169.44	681.38	488.06	2.396		
16,800.00	7,888.99	16,754.19	7,888.99	247.38	246.18	90.00	419.77	-9,406.08	1,169.43	676.03	493.40	2.370		
16,900.00	7,888.99	16,854.19	7,888.99	250.05	248.85	90.00	420.20	-9,506.08	1,169.43	670.68	498.74	2.345		
17,000.00	7,888.99	16,954.19	7,888.99	252.72	251.52	90.00	420.64	-9,606.08	1,169.42	665.33	504.09	2.320		
17,100.00	7,888.99	17,054.19	7,888.99	255.39	254.19	90.00	421.08	-9,706.08	1,169.41	659.98	509.43	2.296		
17,200.00	7,888.99	17,154.19	7,888.99	258.06	256.87	90.00	421.51	-9,806.07	1,169.41	654.63	514.78	2.272		
17,300.00	7,888.99	17,254.19	7,888.99	260.73	259.54	90.00	421.95	-9,906.07	1,169.40	649.28	520.12	2.248		
17,400.00	7,888.99	17,354.19	7,888.99	263.40	262.21	90.00	422.39	-10,006.07	1,169.39	643.92	525.47	2.225		
17,500.00	7,888.99	17,454.19	7,888.99	266.07	264.89	90.00	422.83	-10,106.07	1,169.39	638.57	530.82	2.203		
17,600.00	7,889.00	17,554.19	7,888.99	268.75	267.56	90.00	423.26	-10,206.07	1,169.38	633.22	536.17	2.181		
17,700.00	7,889.00	17,654.19	7,888.99	271.42	270.23	90.00	423.70	-10,306.07	1,169.37	627.86	541.51	2.159		
17,800.00	7,889.00	17,754.19	7,888.99	274.09	272.91	90.00	424.14	-10,406.07	1,169.37	622.50	546.86	2.138		
17,900.00	7,889.00	17,854.19	7,888.99	276.77	275.58	90.00	424.57	-10,506.07	1,169.36	617.15	552.21	2.118		
17,961.29	7,889.00	17,918.91	7,889.00	278.41	277.31	90.00	424.80	-10,570.78	1,169.30	613.71	555.59	2.105 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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	-123.75	123.75					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-123.75	123.75	123.48	0.27	460.285		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-123.75	123.75	122.76	0.99	125.532		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-123.75	123.75	122.05	1.70	72.677		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-123.75	123.75	121.33	2.42	51.143		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-123.75	123.75	120.61	3.14	39.453		
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-123.75	123.75	119.90	3.85	32.113		
700.00	700.00	700.00	700.00	2.29	2.29	-90.00	0.00	-123.75	123.75	119.18	4.57	27.076		
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-123.75	123.75	118.46	5.29	23.404		
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-123.75	123.75	117.75	6.00	20.610		
1,000.00	999.98	1,000.02	999.98	3.34	3.36	69.14	0.00	-123.75	123.12	116.41	6.70	18.365		
1,100.00	1,099.84	1,100.16	1,099.84	3.68	3.72	71.48	0.00	-123.75	121.35	113.96	7.39	16.416		
1,200.00	1,199.45	1,199.45	1,199.45	4.01	4.08	75.50	0.00	-123.75	118.86	110.78	8.09	14.698		
1,275.47	1,274.39	1,271.57	1,271.57	4.28	4.33	79.42	-0.08	-124.64	117.84	109.23	8.60	13.698 CC		
1,300.00	1,298.70	1,295.08	1,295.08	4.36	4.41	80.84	-0.14	-125.32	117.95	109.18	8.77	13.450 ES		
1,303.95	1,302.61	1,301.01	1,298.97	4.38	4.43	81.09	-0.15	-125.45	117.99	109.18	8.80	13.402		
1,400.00	1,397.71	1,405.76	1,394.17	4.73	4.79	86.99	-0.43	-128.52	119.51	109.99	9.51	12.560		
1,500.00	1,496.72	1,506.60	1,493.28	5.11	5.14	92.91	-0.72	-131.72	122.42	112.18	10.24	11.955		
1,600.00	1,595.72	1,607.44	1,592.39	5.49	5.49	98.51	-1.01	-134.92	126.58	115.61	10.97	11.535		
1,700.00	1,694.73	1,708.28	1,691.50	5.89	5.84	103.71	-1.29	-138.12	131.89	120.18	11.71	11.261		
1,800.00	1,793.74	1,809.12	1,790.61	6.28	6.20	108.48	-1.58	-141.32	138.21	125.76	12.45	11.098		
1,900.00	1,892.75	1,909.96	1,889.71	6.69	6.55	112.80	-1.87	-144.52	145.41	132.21	13.19	11.021		
2,000.00	1,991.75	1,989.20	1,988.82	7.09	6.83	116.71	-2.16	-147.72	153.36	139.50	13.86	11.066		
2,100.00	2,090.76	2,088.37	2,087.93	7.50	7.18	120.22	-2.45	-150.92	161.95	147.36	14.59	11.100		
2,200.00	2,189.77	2,187.53	2,187.04	7.91	7.54	123.37	-2.74	-154.12	171.09	155.77	15.32	11.167		
2,300.00	2,288.78	2,286.69	2,286.15	8.33	7.89	126.19	-3.03	-157.32	180.69	164.64	16.05	11.257		
2,400.00	2,387.78	2,385.85	2,385.26	8.74	8.24	128.72	-3.31	-160.52	190.69	173.91	16.78	11.364		
2,500.00	2,486.79	2,485.01	2,484.37	9.16	8.60	131.00	-3.60	-163.72	201.02	183.51	17.51	11.482		
2,600.00	2,585.80	2,584.17	2,583.47	9.58	8.95	133.06	-3.89	-166.92	211.64	193.40	18.23	11.606		
2,700.00	2,684.81	2,683.33	2,682.58	10.00	9.31	134.92	-4.18	-170.12	222.50	203.54	18.96	11.735		
2,800.00	2,783.82	2,782.49	2,781.69	10.42	9.66	136.60	-4.47	-173.32	233.57	213.88	19.69	11.864		
2,900.00	2,882.82	2,881.65	2,880.80	10.84	10.02	138.13	-4.76	-176.52	244.82	224.41	20.41	11.994		
3,000.00	2,981.83	2,980.81	2,979.91	11.27	10.37	139.53	-5.04	-179.72	256.24	235.10	21.14	12.122		
3,100.00	3,080.84	3,079.97	3,079.02	11.69	10.73	140.81	-5.33	-182.92	267.79	245.92	21.86	12.248		
3,200.00	3,179.85	3,179.13	3,178.13	12.11	11.09	141.98	-5.62	-186.12	279.46	256.87	22.59	12.371		
3,300.00	3,278.85	3,278.29	3,277.24	12.54	11.44	143.06	-5.91	-189.32	291.23	267.92	23.31	12.491		
3,400.00	3,377.86	3,377.45	3,376.34	12.96	11.80	144.05	-6.20	-192.52	303.11	279.06	24.04	12.608		
3,500.00	3,476.87	3,476.62	3,475.45	13.39	12.16	144.97	-6.49	-195.72	315.06	290.29	24.77	12.721		
3,600.00	3,575.88	3,575.78	3,574.56	13.82	12.51	145.82	-6.77	-198.92	327.09	301.60	25.49	12.831		
3,700.00	3,674.88	3,674.94	3,673.67	14.24	12.87	146.61	-7.06	-202.12	339.18	312.96	26.22	12.937		
3,800.00	3,773.89	3,774.10	3,772.78	14.67	13.23	147.35	-7.35	-205.32	351.34	324.39	26.94	13.039		
3,900.00	3,872.90	3,873.26	3,871.89	15.10	13.59	148.03	-7.64	-208.52	363.54	335.87	27.67	13.138		
4,000.00	3,971.91	3,972.42	3,971.00	15.53	13.94	148.68	-7.93	-211.73	375.80	347.40	28.40	13.233		
4,100.00	4,070.91	4,071.58	4,070.10	15.96	14.30	149.28	-8.22	-214.93	388.10	358.97	29.12	13.326		
4,200.00	4,169.92	4,170.74	4,169.21	16.39	14.66	149.84	-8.50	-218.13	400.44	370.59	29.85	13.414		
4,300.00	4,268.93	4,269.90	4,268.32	16.81	15.02	150.37	-8.79	-221.33	412.81	382.24	30.58	13.500		
4,400.00	4,367.94	4,369.06	4,367.43	17.24	15.38	150.87	-9.08	-224.53	425.22	393.92	31.31	13.583		
4,500.00	4,466.94	4,468.22	4,466.54	17.67	15.73	151.35	-9.37	-227.73	437.66	405.63	32.03	13.663		
4,600.00	4,565.95	4,567.38	4,565.65	18.10	16.09	151.79	-9.66	-230.93	450.13	417.37	32.76	13.740		
4,700.00	4,664.96	4,666.54	4,664.76	18.53	16.45	152.21	-9.95	-234.13	462.62	429.13	33.49	13.814		
4,800.00	4,763.97	4,765.70	4,763.87	18.96	16.81	152.61	-10.23	-237.33	475.13	440.92	34.22	13.886		
4,900.00	4,862.97	4,864.87	4,862.97	19.39	17.17	152.99	-10.52	-240.53	487.67	452.72	34.94	13.956		

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 5-6-8
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 5-6-8	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	4,961.98	4,964.03	4,962.08	19.82	17.53	153.35	-10.81	-243.73	500.22	464.55	35.67	14.023		
5,100.00	5,060.99	5,063.19	5,061.19	20.25	17.88	153.69	-11.10	-246.93	512.80	476.40	36.40	14.088		
5,200.00	5,160.00	5,162.35	5,160.30	20.68	18.24	154.02	-11.39	-250.13	525.39	488.26	37.13	14.150		
5,300.00	5,259.00	5,261.51	5,259.41	21.11	18.60	154.33	-11.68	-253.33	538.00	500.14	37.86	14.211		
5,400.00	5,358.01	5,360.67	5,358.52	21.55	18.96	154.63	-11.97	-256.53	550.62	512.04	38.59	14.270		
5,500.00	5,457.02	5,459.83	5,457.63	21.98	19.32	154.91	-12.25	-259.73	563.26	523.94	39.32	14.327		
5,600.00	5,556.03	5,558.99	5,556.73	22.41	19.68	155.18	-12.54	-262.93	575.91	535.86	40.04	14.382		
5,700.00	5,655.03	5,658.15	5,655.84	22.84	20.04	155.44	-12.83	-266.13	588.57	547.80	40.77	14.435		
5,800.00	5,754.04	5,757.31	5,754.95	23.27	20.40	155.69	-13.12	-269.33	601.24	559.74	41.50	14.487		
5,900.00	5,853.05	5,856.47	5,854.06	23.70	20.75	155.93	-13.41	-272.53	613.93	571.70	42.23	14.537		
6,000.00	5,952.06	5,955.63	5,953.17	24.13	21.11	156.16	-13.70	-275.73	626.62	583.66	42.96	14.586		
6,100.00	6,051.06	6,054.79	6,052.28	24.56	21.47	156.37	-13.98	-278.93	639.32	595.63	43.69	14.633		
6,200.00	6,150.07	6,153.96	6,151.39	25.00	21.83	156.59	-14.27	-282.13	652.04	607.62	44.42	14.679		
6,300.00	6,249.08	6,253.12	6,250.49	25.43	22.19	156.79	-14.56	-285.33	664.76	619.61	45.15	14.724		
6,400.00	6,348.09	6,352.28	6,349.60	25.86	22.55	156.98	-14.85	-288.53	677.48	631.61	45.88	14.767		
6,500.00	6,447.09	6,451.44	6,448.71	26.29	22.91	157.17	-15.14	-291.73	690.22	643.61	46.61	14.809		
6,600.00	6,546.10	6,550.60	6,547.82	26.72	23.27	157.35	-15.43	-294.93	702.96	655.62	47.34	14.850		
6,700.00	6,645.11	6,649.76	6,646.93	27.15	23.63	157.53	-15.71	-298.13	715.71	667.64	48.07	14.889		
6,800.00	6,744.12	6,748.92	6,746.04	27.59	23.99	157.70	-16.00	-301.33	728.47	679.67	48.80	14.928		
6,900.00	6,843.12	6,848.08	6,845.15	28.02	24.35	157.86	-16.29	-304.53	741.23	691.70	49.53	14.966		
6,940.67	6,883.39	6,888.41	6,885.45	28.19	24.49	157.92	-16.41	-305.83	746.42	696.60	49.83	14.981		
7,000.00	6,942.21	6,947.31	6,944.33	28.45	24.71	158.05	-16.58	-307.73	753.43	703.17	50.26	14.991		
7,100.00	7,041.68	7,046.88	7,043.84	28.85	25.07	158.17	-16.87	-310.95	762.68	711.70	50.98	14.959		
7,200.00	7,141.44	7,144.75	7,141.69	29.22	25.41	158.25	-17.05	-312.92	768.81	717.13	51.69	14.875		
7,300.00	7,241.39	7,243.88	7,240.72	29.56	25.77	158.14	-17.04	-315.96	771.90	719.51	52.39	14.733		
7,344.62	7,286.00	7,287.36	7,283.75	29.69	25.94	-0.67	-17.01	-322.05	772.30	719.58	52.72	14.649		
7,374.62	7,316.00	7,315.96	7,311.76	29.78	26.05	-1.10	-16.98	-327.83	772.42	719.48	52.94	14.590		
7,400.00	7,341.37	7,339.79	7,334.86	29.85	26.14	88.24	-16.96	-333.70	772.58	719.45	53.13	14.541		
7,450.00	7,391.17	7,386.13	7,378.97	30.02	26.34	87.44	-16.90	-347.86	773.01	719.49	53.52	14.445		
7,500.00	7,440.39	7,431.73	7,421.11	30.19	26.53	86.66	-16.82	-365.22	773.57	719.67	53.91	14.350		
7,550.00	7,488.66	7,476.63	7,461.15	30.37	26.74	85.91	-16.73	-385.53	774.26	719.96	54.30	14.258		
7,600.00	7,535.62	7,520.91	7,498.95	30.56	26.95	85.19	-16.63	-408.58	775.04	720.33	54.70	14.168		
7,650.00	7,580.90	7,564.62	7,534.40	30.76	27.17	84.50	-16.52	-434.12	775.89	720.78	55.11	14.078		
7,700.00	7,624.18	7,607.81	7,567.43	30.97	27.40	83.86	-16.40	-461.94	776.80	721.26	55.54	13.987		
7,750.00	7,665.10	7,650.55	7,597.95	31.18	27.65	83.26	-16.27	-491.84	777.73	721.75	55.98	13.894		
7,800.00	7,703.37	7,692.87	7,625.90	31.40	27.92	82.70	-16.13	-523.60	778.66	722.21	56.45	13.794		
7,850.00	7,738.70	7,734.82	7,651.21	31.64	28.21	82.19	-15.98	-557.05	779.56	722.61	56.95	13.688		
7,900.00	7,770.80	7,776.46	7,673.85	31.90	28.52	81.74	-15.83	-591.98	780.43	722.93	57.50	13.572		
7,950.00	7,799.45	7,817.82	7,693.77	32.18	28.86	81.33	-15.67	-628.22	781.23	723.13	58.10	13.446		
8,000.00	7,824.41	7,858.94	7,710.93	32.49	29.23	80.99	-15.51	-665.58	781.94	723.18	58.76	13.307		
8,050.00	7,845.51	7,900.00	7,725.35	32.83	29.62	80.70	-15.34	-704.01	782.56	723.07	59.49	13.155		
8,100.00	7,862.58	7,940.65	7,736.88	33.22	30.05	80.47	-15.17	-742.98	783.06	722.77	60.29	12.988		
8,150.00	7,875.49	7,981.30	7,745.62	33.65	30.50	80.31	-15.00	-782.67	783.44	722.27	61.17	12.808		
8,200.00	7,884.14	8,021.88	7,751.51	34.13	30.97	80.20	-14.82	-822.81	783.68	721.56	62.12	12.616		
8,250.00	7,888.47	8,062.41	7,754.55	34.65	31.46	80.15	-14.65	-863.22	783.78	720.65	63.13	12.415		
8,274.69	7,889.00	8,082.42	7,754.99	34.93	31.71	80.16	-14.56	-883.22	783.78	720.12	63.66	12.312		
8,276.55	7,889.00	8,086.62	7,755.00	34.95	31.77	80.16	-14.55	-884.45	783.78	720.05	63.73	12.298		
8,300.00	7,889.00	8,107.09	7,755.00	35.22	32.04	80.16	-14.45	-907.90	783.78	719.48	64.30	12.189		
8,400.00	7,889.00	8,207.09	7,755.00	36.48	33.43	80.16	-14.01	-1,007.90	783.79	716.70	67.09	11.683		
8,500.00	7,889.00	8,307.09	7,755.00	37.92	34.98	80.16	-13.58	-1,107.90	783.80	713.63	70.17	11.170		
8,600.00	7,889.00	8,407.09	7,755.00	39.49	36.67	80.16	-13.14	-1,207.90	783.81	710.30	73.50	10.664		
8,700.00	7,888.99	8,507.09	7,755.00	41.20	38.46	80.16	-12.70	-1,307.89	783.81	706.76	77.06	10.172		

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 5-6-8
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 5-6-8	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 4-6S 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				
8,800.00	7,888.99	8,607.09	7,755.00	43.01	40.36	80.16	-12.27	-1,407.89	783.82	703.01	80.81	9.700				
8,900.00	7,888.99	8,707.09	7,755.00	44.92	42.34	80.16	-11.83	-1,507.89	783.83	699.11	84.72	9.252				
9,000.00	7,888.99	8,807.09	7,755.00	46.91	44.39	80.16	-11.39	-1,607.89	783.84	695.05	88.78	8.829				
9,100.00	7,888.99	8,907.09	7,755.00	48.97	46.52	80.16	-10.96	-1,707.89	783.84	690.87	92.97	8.431				
9,200.00	7,888.99	9,007.09	7,755.00	51.09	48.69	80.16	-10.52	-1,807.89	783.85	686.58	97.26	8.059				
9,300.00	7,888.99	9,107.09	7,755.00	53.27	50.92	80.16	-10.08	-1,907.89	783.85	682.20	101.66	7.711				
9,400.00	7,888.99	9,207.09	7,755.00	55.49	53.19	80.16	-9.65	-2,007.89	783.86	677.73	106.13	7.386				
9,500.00	7,888.99	9,307.09	7,755.00	57.75	55.50	80.16	-9.21	-2,107.89	783.87	673.19	110.68	7.082				
9,600.00	7,888.99	9,407.09	7,755.00	60.05	57.84	80.16	-8.77	-2,207.89	783.87	668.58	115.30	6.799				
9,700.00	7,888.98	9,507.09	7,755.00	62.38	60.20	80.16	-8.34	-2,307.89	783.88	663.91	119.97	6.534				
9,800.00	7,888.98	9,607.09	7,755.00	64.74	62.60	80.16	-7.90	-2,407.88	783.88	659.19	124.69	6.287				
9,900.00	7,888.98	9,707.09	7,755.00	67.13	65.02	80.16	-7.46	-2,507.88	783.89	654.43	129.46	6.055				
10,000.00	7,888.98	9,807.09	7,755.00	69.54	67.46	80.16	-7.03	-2,607.88	783.90	649.63	134.27	5.838				
10,100.00	7,888.98	9,907.09	7,755.00	71.96	69.91	80.16	-6.59	-2,707.88	783.90	644.79	139.11	5.635				
10,200.00	7,888.98	10,007.09	7,755.00	74.41	72.39	80.16	-6.15	-2,807.88	783.91	639.91	143.99	5.444				
10,300.00	7,888.98	10,107.09	7,755.00	76.87	74.88	80.16	-5.72	-2,907.88	783.91	635.01	148.90	5.265				
10,400.00	7,888.98	10,207.09	7,755.00	79.35	77.38	80.16	-5.28	-3,007.88	783.91	630.08	153.83	5.096				
10,500.00	7,888.98	10,307.09	7,755.00	81.84	79.89	80.16	-4.84	-3,107.88	783.92	625.13	158.79	4.937				
10,600.00	7,888.98	10,407.09	7,755.00	84.35	82.42	80.16	-4.41	-3,207.88	783.92	620.15	163.77	4.787				
10,700.00	7,888.98	10,507.09	7,755.00	86.86	84.95	80.16	-3.97	-3,307.88	783.93	615.15	168.77	4.645				
10,800.00	7,888.98	10,607.09	7,755.00	89.39	87.50	80.16	-3.53	-3,407.87	783.93	610.14	173.79	4.511				
10,900.00	7,888.98	10,707.09	7,755.00	91.93	90.05	80.16	-3.10	-3,507.87	783.94	605.11	178.83	4.384				
11,000.00	7,888.97	10,807.09	7,755.00	94.47	92.61	80.16	-2.66	-3,607.87	783.94	600.06	183.88	4.263				
11,100.00	7,888.97	10,907.09	7,755.00	97.02	95.18	80.16	-2.22	-3,707.87	783.94	595.00	188.94	4.149				
11,200.00	7,888.97	11,007.09	7,755.00	99.58	97.75	80.16	-1.79	-3,807.87	783.95	589.92	194.02	4.041				
11,300.00	7,888.97	11,107.09	7,755.00	102.15	100.33	80.16	-1.35	-3,907.87	783.95	584.84	199.11	3.937				
11,400.00	7,888.97	11,207.09	7,755.00	104.72	102.92	80.16	-0.91	-4,007.87	783.95	579.74	204.21	3.839				
11,500.00	7,888.97	11,307.09	7,755.00	107.30	105.51	80.16	-0.48	-4,107.87	783.95	574.63	209.32	3.745				
11,600.00	7,888.97	11,407.09	7,755.00	109.88	108.11	80.16	-0.04	-4,207.87	783.96	569.51	214.45	3.656				
11,700.00	7,888.97	11,507.09	7,755.00	112.47	110.71	80.16	0.40	-4,307.87	783.96	564.38	219.58	3.570				
11,800.00	7,888.97	11,607.09	7,755.00	115.06	113.31	80.16	0.83	-4,407.87	783.96	559.25	224.71	3.489				
11,900.00	7,888.97	11,707.09	7,755.00	117.66	115.92	80.16	1.27	-4,507.86	783.96	554.10	229.86	3.411				
12,000.00	7,888.97	11,807.09	7,755.00	120.26	118.53	80.16	1.71	-4,607.86	783.97	548.95	235.01	3.336				
12,100.00	7,888.97	11,907.09	7,755.00	122.87	121.15	80.16	2.14	-4,707.86	783.97	543.79	240.17	3.264				
12,200.00	7,888.97	12,007.09	7,755.00	125.48	123.77	80.16	2.58	-4,807.86	783.97	538.63	245.34	3.195				
12,300.00	7,888.97	12,107.09	7,755.00	128.09	126.39	80.16	3.02	-4,907.86	783.97	533.46	250.51	3.129				
12,400.00	7,888.97	12,207.09	7,755.00	130.70	129.02	80.16	3.45	-5,007.86	783.97	528.28	255.69	3.066				
12,500.00	7,888.97	12,307.09	7,755.00	133.32	131.64	80.16	3.89	-5,107.86	783.97	523.10	260.87	3.005				
12,600.00	7,888.97	12,407.09	7,755.00	135.94	134.27	80.16	4.33	-5,207.86	783.97	517.91	266.06	2.947				
12,700.00	7,888.97	12,507.09	7,755.00	138.57	136.90	80.16	4.77	-5,307.86	783.98	512.72	271.26	2.890				
12,800.00	7,888.97	12,607.09	7,755.00	141.19	139.54	80.16	5.20	-5,407.86	783.98	507.52	276.45	2.836				
12,900.00	7,888.97	12,707.09	7,755.00	143.82	142.17	80.16	5.64	-5,507.85	783.98	502.32	281.65	2.783				
13,000.00	7,888.97	12,807.09	7,755.00	146.45	144.81	80.16	6.08	-5,607.85	783.98	497.12	286.86	2.733				
13,100.00	7,888.97	12,907.09	7,755.00	149.09	147.45	80.16	6.51	-5,707.85	783.98	491.91	292.07	2.684				
13,200.00	7,888.97	13,007.09	7,754.99	151.72	150.09	80.16	6.95	-5,807.85	783.98	486.69	297.28	2.637				
13,300.00	7,888.97	13,107.09	7,754.99	154.36	152.74	80.16	7.39	-5,907.85	783.98	481.48	302.50	2.592				
13,400.00	7,888.97	13,207.09	7,754.99	157.00	155.38	80.16	7.82	-6,007.85	783.98	476.26	307.72	2.548				
13,500.00	7,888.97	13,307.09	7,754.99	159.64	158.03	80.16	8.26	-6,107.85	783.98	471.04	312.94	2.505				
13,600.00	7,888.97	13,407.09	7,754.99	162.28	160.68	80.16	8.70	-6,207.85	783.98	465.81	318.17	2.464				
13,700.00	7,888.97	13,507.09	7,754.99	164.93	163.33	80.16	9.13	-6,307.85	783.98	460.58	323.39	2.424				
13,800.00	7,888.97	13,607.09	7,754.99	167.57	165.98	80.16	9.57	-6,407.85	783.97	455.35	328.62	2.386				
13,900.00	7,888.97	13,707.09	7,754.99	170.22	168.63	80.16	10.01	-6,507.85	783.97	450.12	333.86	2.348				

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 5-6-8
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 5-6-8	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		
14,000.00	7,888.97	13,807.09	7,754.99	172.87	171.28	80.16	10.44	-6,607.84	783.97	444.88	339.09	2.312		
14,100.00	7,888.97	13,907.09	7,754.99	175.51	173.94	80.16	10.88	-6,707.84	783.97	439.64	344.33	2.277		
14,200.00	7,888.97	14,007.09	7,754.99	178.16	176.59	80.16	11.32	-6,807.84	783.97	434.40	349.57	2.243		
14,300.00	7,888.97	14,107.09	7,754.99	180.82	179.25	80.16	11.75	-6,907.84	783.97	429.16	354.81	2.210		
14,400.00	7,888.97	14,207.09	7,754.99	183.47	181.91	80.16	12.19	-7,007.84	783.97	423.91	360.05	2.177		
14,500.00	7,888.97	14,307.09	7,754.99	186.12	184.57	80.16	12.63	-7,107.84	783.96	418.66	365.30	2.146		
14,600.00	7,888.97	14,407.09	7,754.99	188.78	187.22	80.16	13.06	-7,207.84	783.96	413.41	370.55	2.116		
14,700.00	7,888.97	14,507.09	7,754.99	191.43	189.88	80.16	13.50	-7,307.84	783.96	408.16	375.80	2.086		
14,800.00	7,888.97	14,607.09	7,754.99	194.09	192.55	80.16	13.94	-7,407.84	783.96	402.91	381.05	2.057		
14,900.00	7,888.97	14,707.09	7,754.99	196.75	195.21	80.16	14.37	-7,507.84	783.95	397.65	386.30	2.029		
15,000.00	7,888.97	14,807.09	7,754.99	199.41	197.87	80.16	14.81	-7,607.83	783.95	392.40	391.55	2.002		
15,100.00	7,888.97	14,907.09	7,754.99	202.07	200.53	80.16	15.25	-7,707.83	783.95	387.14	396.81	1.976		
15,200.00	7,888.97	15,007.09	7,754.99	204.73	203.20	80.16	15.68	-7,807.83	783.94	381.88	402.07	1.950		
15,300.00	7,888.98	15,107.09	7,754.99	207.39	205.86	80.16	16.12	-7,907.83	783.94	376.62	407.32	1.925		
15,400.00	7,888.98	15,207.09	7,754.99	210.05	208.53	80.16	16.56	-8,007.83	783.94	371.35	412.58	1.900		
15,500.00	7,888.98	15,307.09	7,754.99	212.71	211.19	80.16	16.99	-8,107.83	783.93	366.09	417.84	1.876		
15,600.00	7,888.98	15,407.09	7,754.99	215.37	213.86	80.16	17.43	-8,207.83	783.93	360.82	423.11	1.853		
15,700.00	7,888.98	15,507.09	7,754.99	218.04	216.53	80.16	17.87	-8,307.83	783.93	355.56	428.37	1.830		
15,800.00	7,888.98	15,607.09	7,754.99	220.70	219.19	80.16	18.30	-8,407.83	783.92	350.29	433.63	1.808		
15,900.00	7,888.98	15,707.09	7,754.99	223.37	221.86	80.16	18.74	-8,507.83	783.92	345.02	438.90	1.786		
16,000.00	7,888.98	15,807.09	7,754.99	226.03	224.53	80.16	19.18	-8,607.83	783.91	339.75	444.16	1.765		
16,100.00	7,888.98	15,907.09	7,754.99	228.70	227.20	80.16	19.61	-8,707.82	783.91	334.48	449.43	1.744		
16,200.00	7,888.98	16,007.09	7,754.99	231.37	229.87	80.16	20.05	-8,807.82	783.90	329.20	454.70	1.724		
16,300.00	7,888.98	16,107.09	7,754.99	234.03	232.54	80.16	20.49	-8,907.82	783.90	323.93	459.97	1.704		
16,400.00	7,888.98	16,207.09	7,754.99	236.70	235.21	80.16	20.92	-9,007.82	783.89	318.65	465.24	1.685		
16,500.00	7,888.98	16,307.09	7,754.99	239.37	237.88	80.16	21.36	-9,107.82	783.89	313.38	470.51	1.666		
16,600.00	7,888.98	16,407.09	7,754.99	242.04	240.55	80.16	21.80	-9,207.82	783.88	308.10	475.78	1.648		
16,700.00	7,888.99	16,507.09	7,754.99	244.71	243.22	80.16	22.23	-9,307.82	783.88	302.82	481.05	1.629		
16,800.00	7,888.99	16,607.09	7,754.99	247.38	245.90	80.16	22.67	-9,407.82	783.87	297.54	486.33	1.612		
16,900.00	7,888.99	16,707.09	7,754.99	250.05	248.57	80.16	23.11	-9,507.82	783.86	292.26	491.60	1.595		
17,000.00	7,888.99	16,807.09	7,754.99	252.72	251.24	80.16	23.54	-9,607.82	783.86	286.98	496.88	1.578		
17,100.00	7,888.99	16,907.09	7,754.99	255.39	253.91	80.16	23.98	-9,707.81	783.85	281.70	502.15	1.561		
17,200.00	7,888.99	17,007.09	7,754.99	258.06	256.59	80.16	24.42	-9,807.81	783.85	276.42	507.43	1.545		
17,300.00	7,888.99	17,107.09	7,754.99	260.73	259.26	80.16	24.85	-9,907.81	783.84	271.13	512.70	1.529		
17,400.00	7,888.99	17,207.09	7,754.99	263.40	261.94	80.16	25.29	-10,007.81	783.83	265.85	517.98	1.513		
17,500.00	7,888.99	17,307.09	7,754.99	266.07	264.61	80.16	25.73	-10,107.81	783.83	260.56	523.26	1.498	Level 3	
17,600.00	7,889.00	17,407.09	7,754.99	268.75	267.29	80.16	26.16	-10,207.81	783.82	255.28	528.54	1.483	Level 3	
17,700.00	7,889.00	17,507.09	7,754.99	271.42	269.96	80.16	26.60	-10,307.81	783.81	249.99	533.82	1.468	Level 3	
17,800.00	7,889.00	17,607.09	7,754.99	274.09	272.64	80.16	27.04	-10,407.81	783.80	244.71	539.10	1.454	Level 3	
17,900.00	7,889.00	17,707.09	7,754.99	276.77	275.31	80.16	27.47	-10,507.81	783.80	239.42	544.38	1.440	Level 3	
17,961.29	7,889.00	17,768.35	7,755.00	278.41	276.95	80.16	27.75	-10,569.07	783.79	236.18	547.62	1.431	Level 3, SF	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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	-89.99	0.00	-16.87	16.87					
100.00	100.00	100.00	100.00	0.13	0.13	-89.99	0.00	-16.87	16.87	16.61	0.27	62.766		
200.00	200.00	200.00	200.00	0.49	0.49	-89.99	0.00	-16.87	16.87	15.89	0.99	17.118		
300.00	300.00	300.00	300.00	0.85	0.85	-89.99	0.00	-16.87	16.87	15.17	1.70	9.910		
400.00	400.00	400.00	400.00	1.21	1.21	-89.99	0.00	-16.87	16.87	14.46	2.42	6.974		
500.00	500.00	500.00	500.00	1.57	1.57	-89.99	0.00	-16.87	16.87	13.74	3.14	5.380		
600.00	600.00	600.00	600.00	1.93	1.93	-89.99	0.00	-16.87	16.87	13.02	3.85	4.379		
700.00	700.00	700.00	700.00	2.29	2.29	-89.99	0.00	-16.87	16.87	12.30	4.57	3.692		
800.00	800.00	800.00	800.00	2.64	2.64	-89.99	0.00	-16.87	16.87	11.59	5.29	3.192		
900.00	900.00	900.00	900.00	3.00	3.00	-89.99	0.00	-16.87	16.87	10.87	6.00	2.810		
1,000.00	999.98	1,000.02	999.98	3.34	3.36	74.10	0.00	-16.87	16.31	9.61	6.70	2.433		
1,088.76	1,088.62	1,088.62	1,088.62	3.64	3.68	90.00	0.00	-16.87	15.69	8.37	7.31	2.145 CC		
1,100.00	1,099.84	1,099.84	1,099.84	3.68	3.72	92.78	0.00	-16.87	15.71	8.32	7.39	2.125		
1,200.00	1,199.45	1,199.58	1,199.56	4.01	4.06	115.72	-1.38	-17.92	17.94	9.87	8.07	2.222		
1,300.00	1,298.70	1,299.54	1,299.38	4.36	4.39	130.39	-5.54	-21.06	23.06	14.31	8.75	2.636		
1,303.95	1,302.61	1,303.49	1,303.32	4.38	4.41	130.80	-5.76	-21.23	23.31	14.53	8.78	2.656		
1,400.00	1,397.71	1,400.55	1,398.97	4.73	4.73	137.34	-11.88	-25.85	29.05	19.61	9.44	3.077		
1,500.00	1,496.72	1,500.77	1,498.42	5.11	5.08	141.60	-18.39	-30.76	35.19	25.05	10.14	3.470		
1,600.00	1,595.72	1,600.99	1,597.87	5.49	5.43	144.58	-24.89	-35.67	41.46	30.62	10.85	3.823		
1,700.00	1,694.73	1,698.80	1,697.32	5.89	5.78	146.78	-31.39	-40.57	47.82	36.27	11.55	4.141		
1,800.00	1,793.74	1,801.42	1,796.77	6.28	6.15	148.46	-37.90	-45.48	54.23	41.96	12.27	4.419		
1,900.00	1,892.75	1,901.64	1,896.22	6.69	6.51	149.78	-44.40	-50.39	60.68	47.69	12.99	4.671		
2,000.00	1,991.75	2,001.85	1,995.67	7.09	6.88	150.85	-50.90	-55.30	67.15	53.44	13.71	4.897		
2,100.00	2,090.76	2,102.07	2,095.12	7.50	7.24	151.73	-57.41	-60.21	73.64	59.20	14.44	5.101		
2,200.00	2,189.77	2,202.29	2,194.57	7.91	7.61	152.47	-63.91	-65.12	80.15	64.98	15.17	5.285		
2,300.00	2,288.78	2,302.50	2,294.02	8.33	7.99	153.09	-70.41	-70.02	86.67	70.77	15.89	5.453		
2,400.00	2,387.78	2,402.72	2,393.47	8.74	8.36	153.63	-76.91	-74.93	93.20	76.57	16.63	5.605		
2,500.00	2,486.79	2,502.94	2,492.92	9.16	8.73	154.10	-83.42	-79.84	99.73	82.37	17.36	5.745		
2,600.00	2,585.80	2,603.16	2,592.37	9.58	9.11	154.51	-89.92	-84.75	106.27	88.18	18.09	5.874		
2,700.00	2,684.81	2,703.37	2,691.82	10.00	9.48	154.87	-96.42	-89.66	112.82	93.99	18.83	5.992		
2,800.00	2,783.82	2,803.59	2,791.27	10.42	9.86	155.20	-102.93	-94.57	119.37	99.80	19.56	6.101		
2,900.00	2,882.82	2,896.19	2,890.72	10.84	10.21	155.49	-109.43	-99.48	125.92	105.65	20.27	6.211		
3,000.00	2,981.83	3,004.02	2,990.17	11.27	10.62	155.75	-115.93	-104.38	132.47	111.43	21.04	6.297		
3,100.00	3,080.84	3,104.24	3,089.62	11.69	11.00	155.98	-122.43	-109.29	139.03	117.25	21.78	6.384		
3,200.00	3,179.85	3,204.46	3,189.07	12.11	11.38	156.20	-128.94	-114.20	145.59	123.07	22.52	6.466		
3,300.00	3,278.85	3,304.67	3,288.52	12.54	11.76	156.39	-135.44	-119.11	152.15	128.90	23.26	6.542		
3,400.00	3,377.86	3,395.11	3,387.97	12.96	12.10	156.57	-141.94	-124.02	158.72	134.76	23.96	6.624		
3,500.00	3,476.87	3,505.11	3,487.42	13.39	12.52	156.74	-148.45	-128.93	165.28	140.54	24.74	6.681		
3,600.00	3,575.88	3,605.32	3,586.87	13.82	12.90	156.89	-154.95	-133.83	171.85	146.37	25.48	6.744		
3,700.00	3,674.88	3,705.54	3,686.32	14.24	13.28	157.04	-161.45	-138.74	178.42	152.19	26.22	6.804		
3,800.00	3,773.89	3,794.24	3,785.77	14.67	13.62	157.17	-167.96	-143.65	184.99	158.06	26.92	6.871		
3,900.00	3,872.90	3,905.97	3,885.22	15.10	14.05	157.29	-174.46	-148.56	191.55	163.85	27.71	6.914		
4,000.00	3,971.91	4,006.19	3,984.67	15.53	14.43	157.41	-180.96	-153.47	198.12	169.67	28.45	6.964		
4,100.00	4,070.91	4,106.41	4,084.12	15.96	14.81	157.51	-187.46	-158.38	204.70	175.50	29.19	7.012		
4,200.00	4,169.92	4,193.38	4,183.57	16.39	15.14	157.61	-193.97	-163.28	211.27	181.38	29.89	7.069		
4,300.00	4,268.93	4,306.84	4,283.02	16.81	15.58	157.71	-200.47	-168.19	217.84	187.16	30.68	7.100		
4,400.00	4,367.94	4,392.94	4,382.47	17.24	15.91	157.80	-206.97	-173.10	224.41	193.04	31.37	7.153		
4,500.00	4,466.94	4,507.27	4,481.92	17.67	16.34	157.88	-213.48	-178.01	230.99	198.82	32.17	7.180		
4,600.00	4,565.95	4,592.51	4,581.37	18.10	16.67	157.96	-219.98	-182.92	237.56	204.70	32.86	7.230		
4,700.00	4,664.96	4,707.71	4,680.82	18.53	17.11	158.03	-226.48	-187.83	244.13	210.47	33.66	7.253		
4,800.00	4,763.97	4,807.93	4,780.27	18.96	17.50	158.11	-232.98	-192.74	250.71	216.30	34.40	7.287		
4,900.00	4,862.97	4,908.14	4,879.72	19.39	17.88	158.17	-239.49	-197.64	257.28	222.13	35.15	7.320		

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 5-6-8
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 5-6-8	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	4,961.98	5,008.36	4,979.17	19.82	18.27	158.24	-245.99	-202.55	263.86	227.96	35.89	7.351		
5,100.00	5,060.99	5,108.58	5,078.62	20.25	18.65	158.30	-252.49	-207.46	270.43	233.79	36.64	7.381		
5,200.00	5,160.00	5,208.79	5,178.07	20.68	19.03	158.36	-259.00	-212.37	277.01	239.62	37.39	7.410		
5,300.00	5,259.00	5,290.99	5,277.52	21.11	19.35	158.41	-265.50	-217.28	283.59	245.52	38.06	7.450		
5,400.00	5,358.01	5,409.23	5,376.97	21.55	19.80	158.47	-272.00	-222.19	290.16	251.29	38.88	7.464		
5,500.00	5,457.02	5,509.44	5,476.42	21.98	20.19	158.52	-278.51	-227.09	296.74	257.12	39.62	7.489		
5,600.00	5,556.03	5,590.34	5,575.87	22.41	20.50	158.56	-285.01	-232.00	303.32	263.02	40.30	7.527		
5,700.00	5,655.03	5,709.88	5,675.32	22.84	20.96	158.61	-291.51	-236.91	309.89	268.78	41.12	7.537		
5,800.00	5,754.04	5,789.91	5,774.77	23.27	21.27	158.65	-298.01	-241.82	316.47	274.68	41.79	7.573		
5,900.00	5,853.05	5,889.69	5,874.22	23.70	21.65	158.70	-304.52	-246.73	323.05	280.52	42.53	7.595		
6,000.00	5,952.06	5,989.47	5,973.67	24.13	22.03	158.74	-311.02	-251.64	329.63	286.35	43.28	7.617		
6,100.00	6,051.06	6,089.26	6,073.12	24.56	22.42	158.78	-317.52	-256.54	336.20	292.18	44.02	7.637		
6,200.00	6,150.07	6,189.04	6,172.57	25.00	22.80	158.82	-324.03	-261.45	342.78	298.01	44.77	7.657		
6,300.00	6,249.08	6,288.82	6,272.02	25.43	23.19	158.85	-330.53	-266.36	349.36	303.85	45.51	7.676		
6,400.00	6,348.09	6,388.61	6,371.47	25.86	23.57	158.89	-337.03	-271.27	355.94	309.68	46.26	7.695		
6,500.00	6,447.09	6,488.39	6,470.92	26.29	23.95	158.92	-343.54	-276.18	362.52	315.51	47.00	7.713		
6,600.00	6,546.10	6,588.17	6,570.37	26.72	24.34	158.95	-350.04	-281.09	369.09	321.35	47.75	7.730		
6,700.00	6,645.11	6,687.96	6,669.82	27.15	24.72	158.98	-356.54	-286.00	375.67	327.18	48.49	7.747		
6,800.00	6,744.12	6,787.74	6,769.27	27.59	25.11	159.01	-363.04	-290.90	382.25	333.01	49.24	7.763		
6,900.00	6,843.12	6,887.52	6,868.72	28.02	25.49	159.04	-369.55	-295.81	388.83	338.85	49.98	7.779		
6,940.67	6,883.39	6,928.10	6,909.16	28.19	25.65	159.06	-372.19	-297.81	391.51	341.22	50.29	7.785		
7,000.00	6,942.21	6,987.34	6,968.20	28.45	25.87	159.06	-376.05	-300.72	394.84	344.11	50.73	7.783		
7,100.00	7,041.68	7,087.28	7,067.81	28.85	26.26	158.92	-382.57	-305.64	397.86	346.38	51.48	7.729		
7,200.00	7,141.44	7,180.38	7,160.64	29.22	26.61	158.66	-388.10	-309.82	398.22	346.04	52.18	7.632		
7,300.00	7,241.39	7,270.36	7,250.54	29.56	26.94	158.46	-391.30	-312.23	397.73	344.92	52.81	7.531		
7,344.62	7,286.00	7,310.52	7,290.69	29.69	27.08	0.03	-392.00	-312.76	397.28	344.20	53.08	7.485		
7,374.62	7,316.00	7,337.53	7,317.69	29.78	27.17	0.01	-392.21	-312.92	397.04	343.80	53.24	7.457		
7,400.00	7,341.37	7,361.21	7,341.37	29.85	27.25	89.84	-392.25	-312.95	397.00	343.62	53.39	7.436		
7,418.45	7,359.79	7,379.63	7,359.79	29.91	27.31	90.00	-392.25	-312.95	397.00	343.50	53.50	7.420		
7,450.00	7,391.17	7,411.14	7,391.29	30.02	27.41	90.37	-392.24	-313.64	397.01	343.31	53.70	7.393		
7,500.00	7,440.39	7,461.37	7,441.29	30.19	27.60	90.96	-392.22	-318.32	397.06	343.01	54.05	7.346		
7,550.00	7,488.66	7,511.97	7,491.05	30.37	27.79	91.54	-392.18	-327.44	397.15	342.73	54.42	7.298		
7,600.00	7,535.62	7,562.94	7,540.16	30.56	28.00	92.12	-392.12	-341.02	397.28	342.45	54.82	7.246		
7,650.00	7,580.90	7,614.28	7,588.20	30.76	28.21	92.68	-392.04	-359.06	397.44	342.19	55.26	7.193		
7,700.00	7,624.18	7,665.99	7,634.77	30.97	28.44	93.22	-391.95	-381.49	397.64	341.92	55.72	7.136		
7,750.00	7,665.10	7,718.05	7,679.42	31.18	28.69	93.73	-391.83	-408.23	397.86	341.63	56.22	7.077		
7,800.00	7,703.37	7,770.47	7,721.73	31.40	28.95	94.22	-391.69	-439.13	398.10	341.33	56.77	7.012		
7,850.00	7,738.70	7,823.21	7,761.29	31.64	29.23	94.67	-391.54	-474.00	398.34	340.97	57.37	6.943		
7,900.00	7,770.80	7,876.28	7,797.67	31.90	29.54	95.09	-391.37	-512.60	398.60	340.55	58.05	6.867		
7,950.00	7,799.45	7,929.63	7,830.50	32.18	29.89	95.47	-391.19	-554.63	398.84	340.04	58.80	6.783		
8,000.00	7,824.41	7,983.25	7,859.42	32.49	30.28	95.81	-390.99	-599.76	399.08	339.43	59.65	6.690		
8,050.00	7,845.51	8,037.10	7,884.08	32.83	30.72	96.10	-390.78	-647.61	399.29	338.69	60.60	6.589		
8,100.00	7,862.58	8,091.16	7,904.22	33.22	31.21	96.33	-390.56	-697.75	399.47	337.81	61.66	6.478		
8,150.00	7,875.49	8,145.38	7,919.58	33.65	31.76	96.52	-390.34	-749.73	399.62	336.79	62.83	6.360		
8,200.00	7,884.14	8,199.72	7,929.97	34.13	32.36	96.65	-390.10	-803.05	399.74	335.63	64.11	6.235		
8,250.00	7,888.47	8,254.14	7,935.28	34.65	33.01	96.73	-389.87	-857.19	399.80	334.32	65.48	6.106		
8,274.69	7,889.00	8,281.04	7,936.00	34.93	33.35	96.75	-389.75	-884.08	399.82	333.63	66.19	6.041		
8,300.00	7,889.00	8,306.50	7,936.00	35.22	33.68	96.75	-389.64	-909.54	399.82	332.96	66.87	5.979		
8,400.00	7,889.00	8,406.50	7,936.00	36.48	35.08	96.75	-389.20	-1,009.54	399.83	330.11	69.72	5.735		
8,500.00	7,889.00	8,506.50	7,936.00	37.92	36.62	96.75	-388.77	-1,109.54	399.84	326.99	72.85	5.489		
8,600.00	7,889.00	8,606.50	7,936.00	39.49	38.30	96.75	-388.33	-1,209.54	399.85	323.61	76.24	5.245		
8,700.00	7,888.99	8,706.50	7,935.99	41.20	40.08	96.75	-387.89	-1,309.53	399.85	320.03	79.82	5.009		

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 5-6-8
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 5-6-8	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	7,888.99	8,806.50	7,935.99	43.01	41.97	96.75	-387.46	-1,409.53	399.86	316.25	83.61	4.782		
8,900.00	7,888.99	8,906.50	7,935.99	44.92	43.94	96.75	-387.02	-1,509.53	399.87	312.31	87.56	4.567		
9,000.00	7,888.99	9,006.50	7,935.99	46.91	45.99	96.75	-386.58	-1,609.53	399.88	308.23	91.65	4.363		
9,100.00	7,888.99	9,106.50	7,935.99	48.97	48.09	96.75	-386.15	-1,709.53	399.88	304.03	95.86	4.172		
9,200.00	7,888.99	9,206.50	7,935.99	51.09	50.26	96.75	-385.71	-1,809.53	399.89	299.71	100.18	3.992		
9,300.00	7,888.99	9,306.50	7,935.99	53.27	52.47	96.75	-385.27	-1,909.53	399.90	295.31	104.59	3.823		
9,400.00	7,888.99	9,406.50	7,935.98	55.49	54.73	96.75	-384.84	-2,009.53	399.90	290.81	109.09	3.666		
9,500.00	7,888.99	9,506.50	7,935.98	57.75	57.02	96.75	-384.40	-2,109.53	399.91	286.25	113.66	3.518		
9,600.00	7,888.99	9,606.50	7,935.98	60.05	59.35	96.75	-383.96	-2,209.53	399.92	281.62	118.29	3.381		
9,700.00	7,888.98	9,706.50	7,935.98	62.38	61.71	96.75	-383.53	-2,309.52	399.92	276.93	122.99	3.252		
9,800.00	7,888.98	9,806.50	7,935.98	64.74	64.09	96.75	-383.09	-2,409.52	399.93	272.20	127.73	3.131		
9,900.00	7,888.98	9,906.50	7,935.98	67.13	66.50	96.75	-382.65	-2,509.52	399.93	267.41	132.52	3.018		
10,000.00	7,888.98	10,006.50	7,935.98	69.54	68.93	96.75	-382.21	-2,609.52	399.94	262.59	137.35	2.912		
10,100.00	7,888.98	10,106.50	7,935.97	71.96	71.38	96.75	-381.78	-2,709.52	399.94	257.72	142.22	2.812		
10,200.00	7,888.98	10,206.50	7,935.97	74.41	73.84	96.75	-381.34	-2,809.52	399.95	252.83	147.12	2.718		
10,300.00	7,888.98	10,306.50	7,935.97	76.87	76.32	96.75	-380.90	-2,909.52	399.95	247.90	152.05	2.630		
10,400.00	7,888.98	10,406.50	7,935.97	79.35	78.81	96.75	-380.47	-3,009.52	399.96	242.95	157.01	2.547		
10,500.00	7,888.98	10,506.50	7,935.97	81.84	81.32	96.75	-380.03	-3,109.52	399.96	237.97	161.99	2.469		
10,600.00	7,888.98	10,606.50	7,935.97	84.35	83.84	96.75	-379.59	-3,209.52	399.97	232.97	167.00	2.395		
10,700.00	7,888.98	10,706.50	7,935.96	86.86	86.37	96.75	-379.16	-3,309.52	399.97	227.95	172.02	2.325		
10,800.00	7,888.98	10,806.50	7,935.96	89.39	88.90	96.75	-378.72	-3,409.51	399.98	222.91	177.06	2.259		
10,900.00	7,888.98	10,906.50	7,935.96	91.93	91.45	96.75	-378.28	-3,509.51	399.98	217.85	182.13	2.196		
11,000.00	7,888.97	11,006.50	7,935.96	94.47	94.00	96.75	-377.85	-3,609.51	399.98	212.78	187.20	2.137		
11,100.00	7,888.97	11,106.50	7,935.96	97.02	96.56	96.75	-377.41	-3,709.51	399.99	207.69	192.29	2.080		
11,200.00	7,888.97	11,206.50	7,935.96	99.58	99.13	96.75	-376.97	-3,809.51	399.99	202.59	197.40	2.026		
11,300.00	7,888.97	11,306.50	7,935.96	102.15	101.71	96.75	-376.54	-3,909.51	399.99	197.48	202.51	1.975		
11,400.00	7,888.97	11,406.50	7,935.95	104.72	104.29	96.75	-376.10	-4,009.51	400.00	192.35	207.64	1.926		
11,500.00	7,888.97	11,506.50	7,935.95	107.30	106.87	96.75	-375.66	-4,109.51	400.00	187.22	212.78	1.880		
11,600.00	7,888.97	11,606.50	7,935.95	109.88	109.46	96.74	-375.23	-4,209.51	400.00	182.07	217.93	1.835		
11,700.00	7,888.97	11,706.50	7,935.95	112.47	112.06	96.74	-374.79	-4,309.51	400.00	176.92	223.09	1.793		
11,800.00	7,888.97	11,806.50	7,935.95	115.06	114.66	96.74	-374.35	-4,409.50	400.01	171.75	228.26	1.752		
11,900.00	7,888.97	11,906.50	7,935.95	117.66	117.26	96.74	-373.92	-4,509.50	400.01	166.58	233.43	1.714		
12,000.00	7,888.97	12,006.50	7,935.95	120.26	119.87	96.74	-373.48	-4,609.50	400.01	161.40	238.61	1.676		
12,100.00	7,888.97	12,106.50	7,935.94	122.87	122.48	96.74	-373.04	-4,709.50	400.01	156.21	243.80	1.641		
12,200.00	7,888.97	12,206.50	7,935.94	125.48	125.10	96.74	-372.61	-4,809.50	400.01	151.02	249.00	1.607		
12,300.00	7,888.97	12,306.50	7,935.94	128.09	127.72	96.74	-372.17	-4,909.50	400.02	145.82	254.20	1.574		
12,400.00	7,888.97	12,406.50	7,935.94	130.70	130.34	96.74	-371.73	-5,009.50	400.02	140.61	259.41	1.542		
12,500.00	7,888.97	12,506.50	7,935.94	133.32	132.96	96.74	-371.30	-5,109.50	400.02	135.40	264.62	1.512		
12,600.00	7,888.97	12,606.50	7,935.94	135.94	135.59	96.74	-370.86	-5,209.50	400.02	130.18	269.84	1.482 Level 3		
12,700.00	7,888.97	12,706.50	7,935.94	138.57	138.21	96.74	-370.42	-5,309.50	400.02	124.96	275.06	1.454 Level 3		
12,800.00	7,888.97	12,806.50	7,935.93	141.19	140.84	96.74	-369.99	-5,409.50	400.02	119.73	280.29	1.427 Level 3		
12,900.00	7,888.97	12,906.50	7,935.93	143.82	143.48	96.74	-369.55	-5,509.49	400.02	114.50	285.52	1.401 Level 3		
13,000.00	7,888.97	13,006.50	7,935.93	146.45	146.11	96.74	-369.11	-5,609.49	400.02	109.26	290.76	1.376 Level 3		
13,100.00	7,888.97	13,106.50	7,935.93	149.09	148.75	96.74	-368.68	-5,709.49	400.02	104.02	296.00	1.351 Level 3		
13,200.00	7,888.97	13,206.50	7,935.93	151.72	151.39	96.74	-368.24	-5,809.49	400.02	98.78	301.24	1.328 Level 3		
13,300.00	7,888.97	13,306.50	7,935.93	154.36	154.03	96.74	-367.80	-5,909.49	400.02	93.53	306.49	1.305 Level 3		
13,400.00	7,888.97	13,406.50	7,935.93	157.00	156.67	96.74	-367.36	-6,009.49	400.02	88.28	311.74	1.283 Level 3		
13,500.00	7,888.97	13,506.50	7,935.92	159.64	159.32	96.74	-366.93	-6,109.49	400.02	83.03	316.99	1.262 Level 3		
13,600.00	7,888.97	13,606.50	7,935.92	162.28	161.96	96.74	-366.49	-6,209.49	400.02	77.77	322.25	1.241 Level 2		
13,700.00	7,888.97	13,706.50	7,935.92	164.93	164.61	96.74	-366.05	-6,309.49	400.02	72.51	327.51	1.221 Level 2		
13,800.00	7,888.97	13,806.50	7,935.92	167.57	167.26	96.74	-365.62	-6,409.49	400.02	67.25	332.77	1.202 Level 2		
13,900.00	7,888.97	13,906.50	7,935.92	170.22	169.91	96.74	-365.18	-6,509.48	400.02	61.98	338.03	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 5-6-8
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 5-6-8	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	7,888.97	14,006.50	7,935.92	172.87	172.56	96.74	-364.74	-6,609.48	400.01	56.71	343.30	1.165	Level 2	
14,100.00	7,888.97	14,106.50	7,935.92	175.51	175.21	96.74	-364.31	-6,709.48	400.01	51.44	348.57	1.148	Level 2	
14,200.00	7,888.97	14,206.50	7,935.91	178.16	177.86	96.74	-363.87	-6,809.48	400.01	46.17	353.84	1.130	Level 2	
14,300.00	7,888.97	14,306.50	7,935.91	180.82	180.52	96.74	-363.43	-6,909.48	400.01	40.89	359.12	1.114	Level 2	
14,400.00	7,888.97	14,406.50	7,935.91	183.47	183.17	96.74	-363.00	-7,009.48	400.01	35.62	364.39	1.098	Level 2	
14,500.00	7,888.97	14,506.50	7,935.91	186.12	185.83	96.74	-362.56	-7,109.48	400.00	30.33	369.67	1.082	Level 2	
14,600.00	7,888.97	14,606.50	7,935.91	188.78	188.49	96.74	-362.12	-7,209.48	400.00	25.05	374.95	1.067	Level 2	
14,700.00	7,888.97	14,706.50	7,935.91	191.43	191.14	96.74	-361.69	-7,309.48	400.00	19.77	380.23	1.052	Level 2	
14,800.00	7,888.97	14,806.50	7,935.90	194.09	193.80	96.74	-361.25	-7,409.48	400.00	14.48	385.51	1.038	Level 2	
14,900.00	7,888.97	14,906.50	7,935.90	196.75	196.46	96.74	-360.81	-7,509.48	399.99	9.19	390.80	1.024	Level 2	
15,000.00	7,888.97	15,006.50	7,935.90	199.41	199.12	96.74	-360.38	-7,609.47	399.99	3.90	396.09	1.010	Level 2	
15,100.00	7,888.97	15,106.50	7,935.90	202.07	201.78	96.74	-359.94	-7,709.47	399.99	-1.39	401.37	0.997	Level 1	
15,200.00	7,888.97	15,206.50	7,935.90	204.73	204.45	96.74	-359.50	-7,809.47	399.98	-6.68	406.66	0.984	Level 1	
15,300.00	7,888.98	15,306.50	7,935.90	207.39	207.11	96.74	-359.07	-7,909.47	399.98	-11.98	411.95	0.971	Level 1	
15,400.00	7,888.98	15,406.50	7,935.90	210.05	209.77	96.74	-358.63	-8,009.47	399.98	-17.27	417.25	0.959	Level 1	
15,500.00	7,888.98	15,506.50	7,935.89	212.71	212.44	96.74	-358.19	-8,109.47	399.97	-22.57	422.54	0.947	Level 1	
15,600.00	7,888.98	15,606.50	7,935.89	215.37	215.10	96.74	-357.76	-8,209.47	399.97	-27.87	427.84	0.935	Level 1	
15,700.00	7,888.98	15,706.50	7,935.89	218.04	217.77	96.74	-357.32	-8,309.47	399.96	-33.17	433.13	0.923	Level 1	
15,800.00	7,888.98	15,806.50	7,935.89	220.70	220.43	96.74	-356.88	-8,409.47	399.96	-38.47	438.43	0.912	Level 1	
15,900.00	7,888.98	15,906.50	7,935.89	223.37	223.10	96.74	-356.45	-8,509.47	399.95	-43.77	443.73	0.901	Level 1	
16,000.00	7,888.98	16,006.50	7,935.89	226.03	225.77	96.74	-356.01	-8,609.46	399.95	-49.08	449.03	0.891	Level 1	
16,100.00	7,888.98	16,106.50	7,935.89	228.70	228.43	96.74	-355.57	-8,709.46	399.94	-54.38	454.33	0.880	Level 1	
16,200.00	7,888.98	16,206.50	7,935.88	231.37	231.10	96.73	-355.14	-8,809.46	399.94	-59.69	459.63	0.870	Level 1	
16,300.00	7,888.98	16,306.50	7,935.88	234.03	233.77	96.73	-354.70	-8,909.46	399.93	-65.00	464.93	0.860	Level 1	
16,400.00	7,888.98	16,406.50	7,935.88	236.70	236.44	96.73	-354.26	-9,009.46	399.93	-70.31	470.24	0.850	Level 1	
16,500.00	7,888.98	16,506.50	7,935.88	239.37	239.11	96.73	-353.83	-9,109.46	399.92	-75.62	475.54	0.841	Level 1	
16,600.00	7,888.98	16,606.50	7,935.88	242.04	241.78	96.73	-353.39	-9,209.46	399.92	-80.93	480.85	0.832	Level 1	
16,700.00	7,888.99	16,706.50	7,935.88	244.71	244.45	96.73	-352.95	-9,309.46	399.91	-86.24	486.15	0.823	Level 1	
16,800.00	7,888.99	16,806.50	7,935.88	247.38	247.12	96.73	-352.51	-9,409.46	399.90	-91.56	491.46	0.814	Level 1	
16,900.00	7,888.99	16,906.50	7,935.87	250.05	249.79	96.73	-352.08	-9,509.46	399.90	-96.87	496.77	0.805	Level 1	
17,000.00	7,888.99	17,006.50	7,935.87	252.72	252.47	96.73	-351.64	-9,609.46	399.89	-102.19	502.08	0.796	Level 1	
17,100.00	7,888.99	17,106.50	7,935.87	255.39	255.14	96.73	-351.20	-9,709.45	399.88	-107.50	507.38	0.788	Level 1	
17,200.00	7,888.99	17,206.50	7,935.87	258.06	257.81	96.73	-350.77	-9,809.45	399.88	-112.82	512.70	0.780	Level 1	
17,300.00	7,888.99	17,306.50	7,935.87	260.73	260.48	96.73	-350.33	-9,909.45	399.87	-118.14	518.01	0.772	Level 1	
17,400.00	7,888.99	17,406.50	7,935.87	263.40	263.16	96.73	-349.89	-10,009.45	399.86	-123.46	523.32	0.764	Level 1	
17,500.00	7,888.99	17,506.50	7,935.87	266.07	265.83	96.73	-349.46	-10,109.45	399.85	-128.78	528.63	0.756	Level 1	
17,600.00	7,889.00	17,606.50	7,935.86	268.75	268.50	96.73	-349.02	-10,209.45	399.85	-134.10	533.94	0.749	Level 1	
17,700.00	7,889.00	17,706.50	7,935.86	271.42	271.18	96.73	-348.58	-10,309.45	399.84	-139.42	539.26	0.741	Level 1	
17,800.00	7,889.00	17,806.50	7,935.86	274.09	273.85	96.73	-348.15	-10,409.45	399.83	-144.74	544.57	0.734	Level 1	
17,900.00	7,889.00	17,906.50	7,935.86	276.77	276.53	96.73	-347.71	-10,509.45	399.82	-150.06	549.89	0.727	Level 1	
17,926.80	7,889.00	17,933.28	7,935.93	277.48	277.24	96.74	-347.60	-10,536.22	399.82	-151.48	551.30	0.725	Level 1	
17,961.29	7,889.00	17,967.76	7,936.00	278.41	278.16	96.75	-347.45	-10,570.71	399.82	-153.30	553.12	0.723	Level 1, ES, SF	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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	19.69	19.69					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	19.69	19.69	19.42	0.27	73.227		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	19.69	19.69	18.70	0.99	19.971		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	19.69	19.69	17.98	1.70	11.562		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	19.69	19.69	17.27	2.42	8.136		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	19.69	19.69	16.55	3.14	6.277		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	19.69	19.69	15.83	3.85	5.109		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	19.69	19.69	15.12	4.57	4.307		
800.00	800.00	800.15	800.13	2.64	2.63	95.01	-1.68	19.21	19.29	14.01	5.27	3.659		
875.12	875.12	875.23	875.12	2.91	2.88	105.79	-5.16	18.23	18.94	13.16	5.79	3.273 CC		
900.00	900.00	900.05	899.89	3.00	2.96	110.69	-6.72	17.79	19.01	13.05	5.96	3.191		
1,000.00	999.98	999.63	999.08	3.34	3.30	-71.65	-15.06	15.43	20.97	14.33	6.64	3.159		
1,100.00	1,099.84	1,098.96	1,097.67	3.68	3.65	-57.47	-26.69	12.14	25.09	17.78	7.30	3.434		
1,200.00	1,199.45	1,198.06	1,195.55	4.01	4.03	-48.18	-41.56	7.94	30.51	22.54	7.97	3.827		
1,300.00	1,298.70	1,296.93	1,292.62	4.36	4.43	-42.24	-59.63	2.83	36.67	28.03	8.65	4.241		
1,303.95	1,302.61	1,300.87	1,296.47	4.38	4.44	-42.06	-60.41	2.61	36.92	28.25	8.67	4.257		
1,400.00	1,397.71	1,403.30	1,390.25	4.73	4.88	-38.45	-79.41	-2.77	43.02	33.64	9.39	4.584		
1,500.00	1,496.72	1,503.54	1,487.87	5.11	5.32	-35.64	-99.19	-8.36	49.51	39.40	10.11	4.897		
1,600.00	1,595.72	1,603.78	1,585.49	5.49	5.77	-33.49	-118.97	-13.95	56.09	45.25	10.84	5.172		
1,700.00	1,694.73	1,704.01	1,683.12	5.89	6.23	-31.79	-138.74	-19.55	62.73	51.15	11.58	5.416		
1,800.00	1,793.74	1,804.25	1,780.74	6.28	6.70	-30.41	-158.52	-25.14	69.42	57.09	12.32	5.633		
1,900.00	1,892.75	1,904.49	1,878.36	6.69	7.17	-29.28	-178.30	-30.73	76.13	63.07	13.07	5.826		
2,000.00	1,991.75	2,004.72	1,975.99	7.09	7.65	-28.33	-198.08	-36.33	82.88	69.06	13.82	5.998		
2,100.00	2,090.76	2,104.96	2,073.61	7.50	8.13	-27.53	-217.86	-41.92	89.64	75.07	14.57	6.154		
2,200.00	2,189.77	2,194.81	2,171.23	7.91	8.56	-26.84	-237.64	-47.51	96.42	81.14	15.28	6.311		
2,300.00	2,288.78	2,305.43	2,268.86	8.33	9.10	-26.24	-257.42	-53.11	103.20	87.13	16.07	6.421		
2,400.00	2,387.78	2,394.33	2,366.48	8.74	9.53	-25.71	-277.20	-58.70	110.00	93.22	16.78	6.554		
2,500.00	2,486.79	2,494.10	2,464.10	9.16	10.02	-25.24	-296.98	-64.29	116.81	99.27	17.54	6.660		
2,600.00	2,585.80	2,606.14	2,561.72	9.58	10.56	-24.83	-316.76	-69.89	123.63	105.28	18.34	6.740		
2,700.00	2,684.81	2,706.37	2,659.35	10.00	11.06	-24.46	-336.54	-75.48	130.44	111.34	19.10	6.829		
2,800.00	2,783.82	2,793.39	2,756.97	10.42	11.48	-24.13	-356.32	-81.07	137.27	117.46	19.81	6.929		
2,900.00	2,882.82	2,893.15	2,854.59	10.84	11.97	-23.82	-376.10	-86.67	144.10	123.53	20.57	7.006		
3,000.00	2,981.83	2,992.92	2,952.22	11.27	12.47	-23.55	-395.88	-92.26	150.93	129.60	21.33	7.077		
3,100.00	3,080.84	3,107.32	3,049.84	11.69	13.03	-23.30	-415.66	-97.85	157.77	135.62	22.15	7.124		
3,200.00	3,179.85	3,192.44	3,147.46	12.11	13.45	-23.07	-435.44	-103.45	164.60	141.76	22.85	7.204		
3,300.00	3,278.85	3,292.21	3,245.09	12.54	13.95	-22.86	-455.22	-109.04	171.45	147.84	23.61	7.262		
3,400.00	3,377.86	3,408.03	3,342.71	12.96	14.52	-22.66	-475.00	-114.63	178.29	153.85	24.43	7.296		
3,500.00	3,476.87	3,491.74	3,440.33	13.39	14.94	-22.48	-494.77	-120.23	185.13	160.00	25.13	7.366		
3,600.00	3,575.88	3,591.50	3,537.96	13.82	15.44	-22.31	-514.55	-125.82	191.98	166.08	25.90	7.413		
3,700.00	3,674.88	3,708.74	3,635.58	14.24	16.02	-22.15	-534.33	-131.41	198.83	172.10	26.73	7.439		
3,800.00	3,773.89	3,808.97	3,733.20	14.67	16.52	-22.01	-554.11	-137.01	205.68	178.19	27.49	7.481		
3,900.00	3,872.90	3,909.21	3,830.83	15.10	17.02	-21.87	-573.89	-142.60	212.53	184.27	28.26	7.521		
4,000.00	3,971.91	4,009.45	3,928.45	15.53	17.52	-21.74	-593.67	-148.19	219.38	190.36	29.02	7.559		
4,100.00	4,070.91	4,090.32	4,026.07	15.96	17.92	-21.62	-613.45	-153.79	226.23	196.52	29.71	7.614		
4,200.00	4,169.92	4,209.92	4,123.70	16.39	18.52	-21.51	-633.23	-159.38	233.09	202.53	30.56	7.628		
4,300.00	4,268.93	4,289.85	4,221.32	16.81	18.92	-21.40	-653.01	-164.97	239.94	208.70	31.24	7.680		
4,400.00	4,367.94	4,389.61	4,318.94	17.24	19.42	-21.30	-672.79	-170.57	246.80	214.79	32.01	7.711		
4,500.00	4,466.94	4,489.37	4,416.57	17.67	19.92	-21.20	-692.57	-176.16	253.65	220.88	32.77	7.740		
4,600.00	4,565.95	4,589.14	4,514.19	18.10	20.42	-21.11	-712.35	-181.75	260.51	226.97	33.54	7.768		
4,700.00	4,664.96	4,688.90	4,611.81	18.53	20.92	-21.03	-732.13	-187.35	267.37	233.07	34.30	7.794		
4,800.00	4,763.97	4,788.67	4,709.44	18.96	21.42	-20.95	-751.91	-192.94	274.23	239.16	35.07	7.820		
4,900.00	4,862.97	4,888.43	4,807.06	19.39	21.92	-20.87	-771.69	-198.53	281.09	245.25	35.83	7.844		

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 5-6-8
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 5-6-8	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	4,961.98	4,988.19	4,904.68	19.82	22.42	-20.80	-791.47	-204.13	287.94	251.35	36.60	7.867		
5,100.00	5,060.99	5,087.96	5,002.31	20.25	22.92	-20.72	-811.25	-209.72	294.80	257.44	37.37	7.890		
5,200.00	5,160.00	5,187.72	5,099.93	20.68	23.42	-20.66	-831.02	-215.31	301.66	263.53	38.13	7.911		
5,300.00	5,259.00	5,287.48	5,197.55	21.11	23.92	-20.59	-850.80	-220.91	308.52	269.63	38.90	7.932		
5,400.00	5,358.01	5,387.25	5,295.18	21.55	24.42	-20.53	-870.58	-226.50	315.39	275.72	39.66	7.951		
5,500.00	5,457.02	5,487.01	5,392.80	21.98	24.92	-20.47	-890.36	-232.09	322.25	281.82	40.43	7.970		
5,600.00	5,556.03	5,586.78	5,490.42	22.41	25.42	-20.42	-910.14	-237.68	329.11	287.91	41.20	7.989		
5,700.00	5,655.03	5,686.54	5,588.05	22.84	25.92	-20.36	-929.92	-243.28	335.97	294.01	41.96	8.006		
5,800.00	5,754.04	5,786.30	5,685.67	23.27	26.42	-20.31	-949.70	-248.87	342.83	300.10	42.73	8.023		
5,900.00	5,853.05	5,886.07	5,783.29	23.70	26.92	-20.26	-969.48	-254.46	349.69	306.20	43.50	8.040		
6,000.00	5,952.06	5,985.83	5,880.92	24.13	27.42	-20.21	-989.26	-260.06	356.56	312.29	44.26	8.055		
6,100.00	6,051.06	6,085.60	5,978.54	24.56	27.92	-20.17	-1,009.04	-265.65	363.42	318.39	45.03	8.071		
6,200.00	6,150.07	6,185.36	6,076.16	25.00	28.42	-20.12	-1,028.82	-271.24	370.28	324.48	45.80	8.085		
6,300.00	6,249.08	6,285.12	6,173.79	25.43	28.92	-20.08	-1,048.60	-276.84	377.15	330.58	46.56	8.099		
6,400.00	6,348.09	6,384.89	6,271.41	25.86	29.43	-20.04	-1,068.38	-282.43	384.01	336.68	47.33	8.113		
6,500.00	6,447.09	6,484.65	6,369.03	26.29	29.93	-20.00	-1,088.16	-288.02	390.87	342.77	48.10	8.126		
6,600.00	6,546.10	6,584.41	6,466.66	26.72	30.43	-19.96	-1,107.94	-293.62	397.74	348.87	48.87	8.139		
6,700.00	6,645.11	6,684.59	6,564.68	27.15	30.93	-19.92	-1,127.80	-299.23	404.60	354.96	49.64	8.151		
6,800.00	6,744.12	6,800.44	6,678.52	27.59	31.49	-19.96	-1,148.44	-305.07	409.41	358.88	50.52	8.103		
6,900.00	6,843.12	6,916.53	6,793.37	28.02	31.99	-20.17	-1,164.66	-309.66	410.29	358.94	51.35	7.990		
6,940.67	6,883.39	6,963.72	6,840.24	28.19	32.18	-20.30	-1,169.98	-311.16	409.53	357.86	51.67	7.926		
7,000.00	6,942.21	7,032.51	6,908.71	28.45	32.44	-20.49	-1,176.39	-312.98	407.84	355.73	52.11	7.827		
7,100.00	7,041.68	7,148.31	7,024.25	28.85	32.84	-20.79	-1,183.61	-315.02	404.48	351.70	52.78	7.664		
7,200.00	7,141.44	7,263.90	7,139.80	29.22	33.19	-21.05	-1,186.33	-315.78	400.49	347.14	53.35	7.507		
7,300.00	7,241.39	7,365.15	7,240.94	29.56	33.45	-20.77	-1,186.34	-318.83	397.46	343.48	53.98	7.364		
7,333.96	7,275.34	7,398.46	7,273.96	29.66	33.55	-20.15	-1,186.32	-323.22	397.22	343.07	54.16	7.335		
7,344.62	7,286.00	7,408.79	7,284.14	29.69	33.59	-178.27	-1,186.31	-324.97	397.25	343.04	54.21	7.328		
7,374.62	7,316.00	7,437.49	7,312.24	29.78	33.68	-177.43	-1,186.28	-330.79	397.45	343.10	54.36	7.312		
7,400.00	7,341.37	7,461.41	7,335.41	29.85	33.75	-86.87	-1,186.26	-336.71	397.73	343.24	54.49	7.299		
7,450.00	7,391.17	7,507.90	7,379.66	30.02	33.91	-85.31	-1,186.20	-350.96	398.51	343.71	54.79	7.273		
7,500.00	7,440.39	7,553.64	7,421.91	30.19	34.07	-83.80	-1,186.12	-368.43	399.55	344.42	55.13	7.247		
7,550.00	7,488.66	7,598.67	7,462.02	30.37	34.23	-82.34	-1,186.03	-388.87	400.83	345.33	55.50	7.222		
7,600.00	7,535.62	7,643.07	7,499.88	30.56	34.39	-80.95	-1,185.93	-412.05	402.30	346.41	55.88	7.199		
7,650.00	7,580.90	7,686.88	7,535.37	30.76	34.56	-79.64	-1,185.82	-437.73	403.91	347.63	56.28	7.177		
7,700.00	7,624.18	7,730.18	7,568.41	30.97	34.73	-78.40	-1,185.70	-465.69	405.62	348.93	56.69	7.155		
7,750.00	7,665.10	7,773.00	7,598.92	31.18	34.91	-77.25	-1,185.56	-495.72	407.38	350.27	57.11	7.133		
7,800.00	7,703.37	7,815.40	7,626.84	31.40	35.09	-76.20	-1,185.43	-527.61	409.15	351.58	57.57	7.107		
7,850.00	7,738.70	7,857.42	7,652.11	31.64	35.29	-75.24	-1,185.28	-561.18	410.88	352.82	58.06	7.077		
7,900.00	7,770.80	7,899.12	7,674.68	31.90	35.49	-74.38	-1,185.13	-596.22	412.53	353.92	58.61	7.039		
7,950.00	7,799.45	7,940.53	7,694.52	32.18	35.71	-73.62	-1,184.97	-632.56	414.05	354.82	59.24	6.990		
8,000.00	7,824.41	7,981.70	7,711.59	32.49	35.94	-72.97	-1,184.80	-670.01	415.42	355.47	59.95	6.929		
8,050.00	7,845.51	8,022.66	7,725.87	32.83	36.20	-72.43	-1,184.64	-708.40	416.61	355.83	60.77	6.855		
8,100.00	7,862.58	8,063.46	7,737.32	33.22	36.47	-72.00	-1,184.46	-747.56	417.58	355.87	61.71	6.767		
8,150.00	7,875.49	8,104.14	7,745.94	33.65	36.77	-71.67	-1,184.29	-787.30	418.32	355.56	62.76	6.665		
8,200.00	7,884.14	8,114.73	7,751.71	34.13	37.09	-71.46	-1,184.12	-827.47	418.81	354.87	63.94	6.550		
8,250.00	7,888.47	8,115.27	7,754.62	34.65	37.44	-71.36	-1,183.94	-867.90	419.04	353.82	65.23	6.424		
8,274.69	7,889.00	8,207.26	7,755.00	34.93	37.64	-71.35	-1,183.85	-887.70	419.06	353.13	65.93	6.356		
8,300.00	7,889.00	8,230.39	7,755.00	35.22	37.86	-71.35	-1,183.74	-913.00	419.06	352.50	66.56	6.296		
8,400.00	7,889.00	8,330.39	7,755.00	36.48	38.92	-71.35	-1,183.31	-1,013.00	419.05	349.75	69.30	6.047		
8,500.00	7,889.00	8,430.39	7,755.00	37.92	40.15	-71.35	-1,182.87	-1,113.00	419.04	346.74	72.30	5.796		
8,600.00	7,889.00	8,530.39	7,755.00	39.49	41.54	-71.35	-1,182.43	-1,213.00	419.04	343.51	75.53	5.548		
8,700.00	7,888.99	8,630.39	7,755.00	41.20	43.08	-71.35	-1,181.99	-1,313.00	419.03	340.08	78.95	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 5-6-8
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 5-6-8	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	7,888.99	8,730.39	7,755.00	43.01	44.75	-71.35	-1,181.56	-1,413.00	419.02	336.47	82.55	5.076		
8,900.00	7,888.99	8,830.39	7,755.00	44.92	46.54	-71.35	-1,181.12	-1,513.00	419.01	332.70	86.31	4.855		
9,000.00	7,888.99	8,930.39	7,755.00	46.91	48.42	-71.35	-1,180.68	-1,613.00	419.01	328.81	90.20	4.645		
9,100.00	7,888.99	9,030.39	7,755.00	48.97	50.39	-71.35	-1,180.25	-1,713.00	419.00	324.79	94.21	4.448		
9,200.00	7,888.99	9,130.39	7,755.00	51.09	52.43	-71.35	-1,179.81	-1,813.00	418.99	320.67	98.32	4.262		
9,300.00	7,888.99	9,230.39	7,755.00	53.27	54.53	-71.35	-1,179.37	-1,913.00	418.99	316.47	102.52	4.087		
9,400.00	7,888.99	9,330.39	7,754.99	55.49	56.69	-71.35	-1,178.94	-2,012.99	418.98	312.18	106.81	3.923		
9,500.00	7,888.99	9,430.39	7,754.99	57.75	58.90	-71.35	-1,178.50	-2,112.99	418.98	307.82	111.16	3.769		
9,600.00	7,888.99	9,530.39	7,754.99	60.05	61.15	-71.35	-1,178.06	-2,212.99	418.97	303.39	115.58	3.625		
9,700.00	7,888.98	9,630.39	7,754.99	62.38	63.44	-71.35	-1,177.63	-2,312.99	418.96	298.91	120.05	3.490		
9,800.00	7,888.98	9,730.39	7,754.99	64.74	65.76	-71.35	-1,177.19	-2,412.99	418.96	294.39	124.57	3.363		
9,900.00	7,888.98	9,830.39	7,754.99	67.13	68.11	-71.35	-1,176.75	-2,512.99	418.95	289.81	129.14	3.244		
10,000.00	7,888.98	9,930.39	7,754.99	69.54	70.48	-71.35	-1,176.32	-2,612.99	418.95	285.20	133.75	3.132		
10,100.00	7,888.98	10,030.39	7,754.99	71.96	72.88	-71.35	-1,175.88	-2,712.99	418.94	280.55	138.39	3.027		
10,200.00	7,888.98	10,130.39	7,754.99	74.41	75.30	-71.35	-1,175.44	-2,812.99	418.94	275.87	143.07	2.928		
10,300.00	7,888.98	10,230.39	7,754.99	76.87	77.74	-71.35	-1,175.01	-2,912.99	418.93	271.16	147.77	2.835		
10,400.00	7,888.98	10,330.39	7,754.99	79.35	80.20	-71.35	-1,174.57	-3,012.98	418.93	266.42	152.50	2.747		
10,500.00	7,888.98	10,430.39	7,754.99	81.84	82.67	-71.35	-1,174.13	-3,112.98	418.92	261.66	157.26	2.664		
10,600.00	7,888.98	10,530.39	7,754.99	84.35	85.16	-71.35	-1,173.70	-3,212.98	418.92	256.88	162.04	2.585		
10,700.00	7,888.98	10,630.39	7,754.99	86.86	87.65	-71.35	-1,173.26	-3,312.98	418.91	252.07	166.84	2.511		
10,800.00	7,888.98	10,730.39	7,754.99	89.39	90.16	-71.35	-1,172.82	-3,412.98	418.91	247.25	171.66	2.440		
10,900.00	7,888.98	10,830.39	7,754.99	91.93	92.68	-71.35	-1,172.39	-3,512.98	418.91	242.41	176.49	2.373		
11,000.00	7,888.97	10,930.39	7,754.99	94.47	95.21	-71.35	-1,171.95	-3,612.98	418.90	237.56	181.34	2.310		
11,100.00	7,888.97	11,030.39	7,754.99	97.02	97.75	-71.35	-1,171.51	-3,712.98	418.90	232.69	186.21	2.250		
11,200.00	7,888.97	11,130.39	7,754.99	99.58	100.30	-71.35	-1,171.08	-3,812.98	418.90	227.81	191.09	2.192		
11,300.00	7,888.97	11,230.39	7,754.99	102.15	102.86	-71.35	-1,170.64	-3,912.98	418.89	222.91	195.98	2.137		
11,400.00	7,888.97	11,330.39	7,754.99	104.72	105.42	-71.35	-1,170.20	-4,012.98	418.89	218.01	200.88	2.085		
11,500.00	7,888.97	11,430.39	7,754.98	107.30	107.99	-71.35	-1,169.77	-4,112.97	418.89	213.09	205.79	2.035		
11,600.00	7,888.97	11,530.39	7,754.98	109.88	110.56	-71.35	-1,169.33	-4,212.97	418.88	208.17	210.72	1.988		
11,700.00	7,888.97	11,630.39	7,754.98	112.47	113.14	-71.34	-1,168.89	-4,312.97	418.88	203.23	215.65	1.942		
11,800.00	7,888.97	11,730.39	7,754.98	115.06	115.73	-71.34	-1,168.46	-4,412.97	418.88	198.29	220.59	1.899		
11,900.00	7,888.97	11,830.39	7,754.98	117.66	118.32	-71.34	-1,168.02	-4,512.97	418.88	193.34	225.54	1.857		
12,000.00	7,888.97	11,930.39	7,754.98	120.26	120.92	-71.34	-1,167.58	-4,612.97	418.88	188.38	230.50	1.817		
12,100.00	7,888.97	12,030.39	7,754.98	122.87	123.52	-71.34	-1,167.15	-4,712.97	418.87	183.41	235.46	1.779		
12,200.00	7,888.97	12,130.39	7,754.98	125.48	126.12	-71.34	-1,166.71	-4,812.97	418.87	178.44	240.43	1.742		
12,300.00	7,888.97	12,230.39	7,754.98	128.09	128.73	-71.34	-1,166.27	-4,912.97	418.87	173.46	245.41	1.707		
12,400.00	7,888.97	12,330.39	7,754.98	130.70	131.34	-71.34	-1,165.84	-5,012.97	418.87	168.48	250.39	1.673		
12,500.00	7,888.97	12,430.39	7,754.98	133.32	133.95	-71.34	-1,165.40	-5,112.96	418.87	163.49	255.38	1.640		
12,600.00	7,888.97	12,530.39	7,754.98	135.94	136.57	-71.34	-1,164.96	-5,212.96	418.87	158.50	260.37	1.609		
12,700.00	7,888.97	12,630.39	7,754.98	138.57	139.19	-71.34	-1,164.53	-5,312.96	418.87	153.50	265.37	1.578		
12,800.00	7,888.97	12,730.39	7,754.98	141.19	141.81	-71.34	-1,164.09	-5,412.96	418.87	148.50	270.37	1.549		
12,900.00	7,888.97	12,830.39	7,754.98	143.82	144.44	-71.34	-1,163.65	-5,512.96	418.87	143.49	275.38	1.521		
13,000.00	7,888.97	12,930.39	7,754.98	146.45	147.07	-71.34	-1,163.21	-5,612.96	418.87	138.48	280.39	1.494 Level 3		
13,096.40	7,888.97	13,026.78	7,754.98	148.99	149.60	-71.34	-1,162.79	-5,709.36	418.87	133.65	285.22	1.469 Level 3		
13,100.00	7,888.97	13,030.39	7,754.98	149.09	149.70	-71.34	-1,162.78	-5,712.96	418.87	133.46	285.40	1.468 Level 3		
13,200.00	7,888.97	13,130.39	7,754.98	151.72	152.33	-71.34	-1,162.34	-5,812.96	418.87	128.45	290.42	1.442 Level 3		
13,300.00	7,888.97	13,230.39	7,754.98	154.36	154.97	-71.34	-1,161.90	-5,912.96	418.87	123.42	295.44	1.418 Level 3		
13,400.00	7,888.97	13,330.39	7,754.98	157.00	157.60	-71.34	-1,161.47	-6,012.96	418.87	118.40	300.47	1.394 Level 3		
13,500.00	7,888.97	13,430.39	7,754.97	159.64	160.24	-71.34	-1,161.03	-6,112.96	418.87	113.37	305.50	1.371 Level 3		
13,600.00	7,888.97	13,530.39	7,754.97	162.28	162.88	-71.34	-1,160.59	-6,212.95	418.87	108.34	310.53	1.349 Level 3		
13,700.00	7,888.97	13,630.39	7,754.97	164.93	165.52	-71.34	-1,160.16	-6,312.95	418.87	103.31	315.56	1.327 Level 3		
13,800.00	7,888.97	13,730.39	7,754.97	167.57	168.17	-71.34	-1,159.72	-6,412.95	418.87	98.27	320.60	1.307 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 5-6-8
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 5-6-8	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

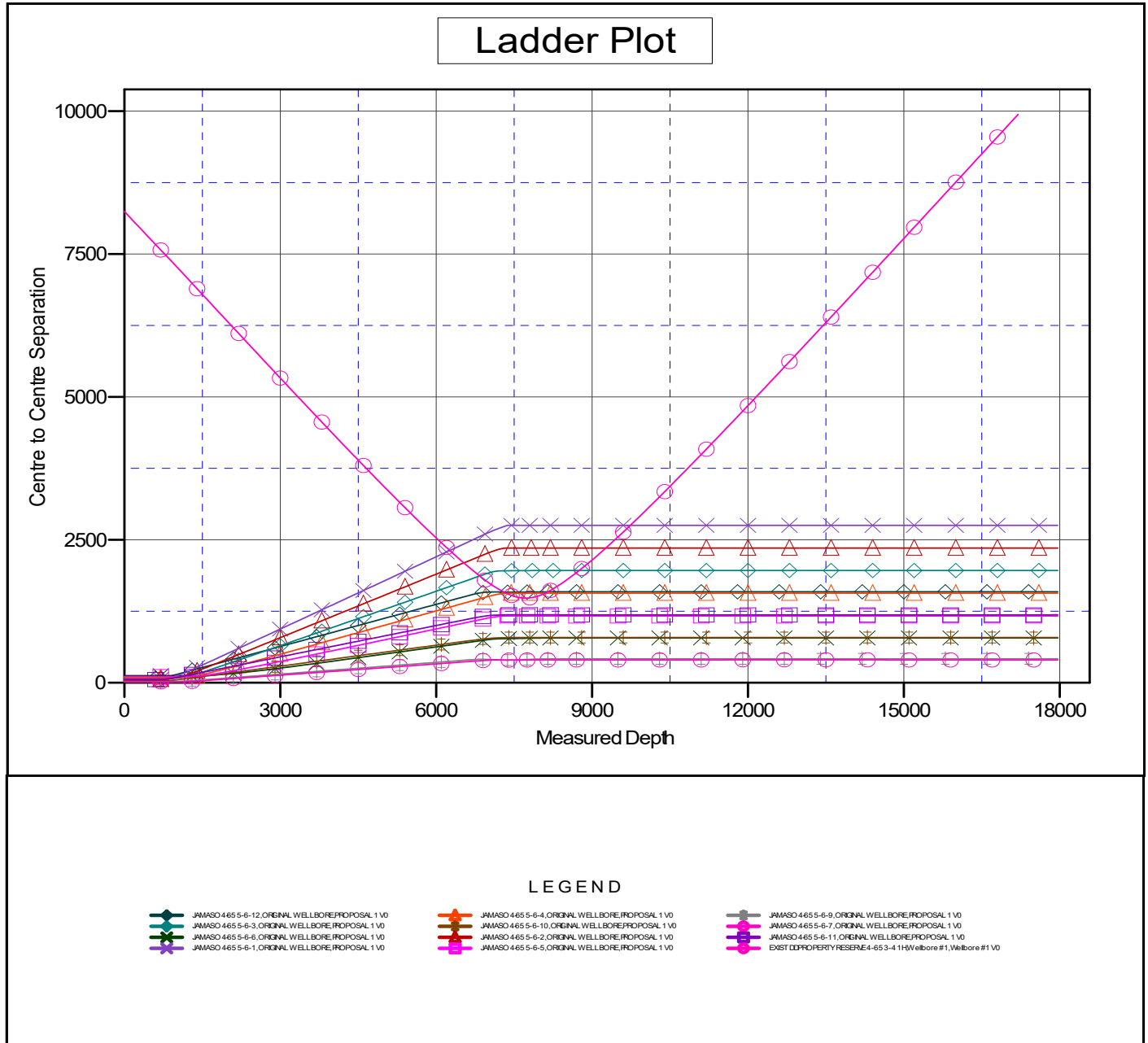
Offset Design Sec 4-T4S-R65W - JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured 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	7,888.97	13,830.39	7,754.97	170.22	170.81	-71.34	-1,159.28	-6,512.95	418.87	93.23	325.64	1.286	Level 3	
14,000.00	7,888.97	13,930.39	7,754.97	172.87	173.46	-71.34	-1,158.85	-6,612.95	418.87	88.19	330.68	1.267	Level 3	
14,100.00	7,888.97	14,030.39	7,754.97	175.51	176.11	-71.34	-1,158.41	-6,712.95	418.87	83.15	335.73	1.248	Level 2	
14,200.00	7,888.97	14,130.39	7,754.97	178.16	178.76	-71.34	-1,157.97	-6,812.95	418.88	78.10	340.77	1.229	Level 2	
14,300.00	7,888.97	14,230.39	7,754.97	180.82	181.41	-71.34	-1,157.54	-6,912.95	418.88	73.06	345.82	1.211	Level 2	
14,400.00	7,888.97	14,330.39	7,754.97	183.47	184.06	-71.34	-1,157.10	-7,012.95	418.88	68.01	350.87	1.194	Level 2	
14,500.00	7,888.97	14,430.39	7,754.97	186.12	186.72	-71.34	-1,156.66	-7,112.95	418.88	62.96	355.93	1.177	Level 2	
14,600.00	7,888.97	14,530.39	7,754.97	188.78	189.37	-71.34	-1,156.23	-7,212.94	418.88	57.90	360.98	1.160	Level 2	
14,700.00	7,888.97	14,630.39	7,754.97	191.43	192.03	-71.34	-1,155.79	-7,312.94	418.89	52.85	366.04	1.144	Level 2	
14,800.00	7,888.97	14,730.39	7,754.97	194.09	194.68	-71.34	-1,155.35	-7,412.94	418.89	47.79	371.10	1.129	Level 2	
14,900.00	7,888.97	14,830.39	7,754.97	196.75	197.34	-71.34	-1,154.92	-7,512.94	418.89	42.74	376.16	1.114	Level 2	
15,000.00	7,888.97	14,930.39	7,754.97	199.41	200.00	-71.34	-1,154.48	-7,612.94	418.90	37.68	381.22	1.099	Level 2	
15,100.00	7,888.97	15,030.39	7,754.97	202.07	202.66	-71.34	-1,154.04	-7,712.94	418.90	32.62	386.28	1.084	Level 2	
15,200.00	7,888.97	15,130.39	7,754.97	204.73	205.32	-71.34	-1,153.61	-7,812.94	418.90	27.55	391.35	1.070	Level 2	
15,300.00	7,888.98	15,230.39	7,754.97	207.39	207.98	-71.34	-1,153.17	-7,912.94	418.91	22.49	396.42	1.057	Level 2	
15,400.00	7,888.98	15,330.39	7,754.97	210.05	210.64	-71.34	-1,152.73	-8,012.94	418.91	17.43	401.48	1.043	Level 2	
15,500.00	7,888.98	15,430.39	7,754.97	212.71	213.31	-71.34	-1,152.30	-8,112.94	418.91	12.36	406.55	1.030	Level 2	
15,600.00	7,888.98	15,530.39	7,754.96	215.37	215.97	-71.34	-1,151.86	-8,212.94	418.92	7.30	411.62	1.018	Level 2	
15,700.00	7,888.98	15,630.39	7,754.96	218.04	218.64	-71.34	-1,151.42	-8,312.93	418.92	2.23	416.70	1.005	Level 2	
15,800.00	7,888.98	15,730.39	7,754.96	220.70	221.30	-71.34	-1,150.99	-8,412.93	418.93	-2.84	421.77	0.993	Level 1	
15,900.00	7,888.98	15,830.39	7,754.96	223.37	223.97	-71.34	-1,150.55	-8,512.93	418.93	-7.91	426.84	0.981	Level 1	
16,000.00	7,888.98	15,930.39	7,754.96	226.03	226.63	-71.34	-1,150.11	-8,612.93	418.94	-12.98	431.92	0.970	Level 1	
16,100.00	7,888.98	16,030.39	7,754.96	228.70	229.30	-71.34	-1,149.68	-8,712.93	418.94	-18.05	436.99	0.959	Level 1	
16,200.00	7,888.98	16,130.39	7,754.96	231.37	231.97	-71.34	-1,149.24	-8,812.93	418.95	-23.12	442.07	0.948	Level 1	
16,300.00	7,888.98	16,230.39	7,754.96	234.03	234.64	-71.34	-1,148.80	-8,912.93	418.95	-28.20	447.15	0.937	Level 1	
16,400.00	7,888.98	16,330.39	7,754.96	236.70	237.31	-71.34	-1,148.37	-9,012.93	418.96	-33.27	452.23	0.926	Level 1	
16,500.00	7,888.98	16,430.39	7,754.96	239.37	239.98	-71.34	-1,147.93	-9,112.93	418.96	-38.35	457.31	0.916	Level 1	
16,600.00	7,888.98	16,530.39	7,754.96	242.04	242.65	-71.34	-1,147.49	-9,212.93	418.97	-43.42	462.39	0.906	Level 1	
16,700.00	7,888.99	16,630.39	7,754.96	244.71	245.32	-71.34	-1,147.06	-9,312.92	418.98	-48.50	467.47	0.896	Level 1	
16,800.00	7,888.99	16,730.39	7,754.96	247.38	247.99	-71.34	-1,146.62	-9,412.92	418.98	-53.58	472.56	0.887	Level 1	
16,900.00	7,888.99	16,830.39	7,754.96	250.05	250.66	-71.34	-1,146.18	-9,512.92	418.99	-58.65	477.64	0.877	Level 1	
17,000.00	7,888.99	16,930.39	7,754.96	252.72	253.33	-71.34	-1,145.74	-9,612.92	419.00	-63.73	482.73	0.868	Level 1	
17,100.00	7,888.99	17,030.39	7,754.96	255.39	256.00	-71.34	-1,145.31	-9,712.92	419.00	-68.81	487.81	0.859	Level 1	
17,200.00	7,888.99	17,130.39	7,754.96	258.06	258.68	-71.34	-1,144.87	-9,812.92	419.01	-73.89	492.90	0.850	Level 1	
17,300.00	7,888.99	17,230.39	7,754.96	260.73	261.35	-71.34	-1,144.43	-9,912.92	419.02	-78.97	497.99	0.841	Level 1	
17,400.00	7,888.99	17,330.39	7,754.96	263.40	264.02	-71.34	-1,144.00	-10,012.92	419.02	-84.05	503.07	0.833	Level 1	
17,500.00	7,888.99	17,430.39	7,754.96	266.07	266.70	-71.34	-1,143.56	-10,112.92	419.03	-89.13	508.16	0.825	Level 1	
17,600.00	7,889.00	17,530.39	7,754.96	268.75	269.37	-71.34	-1,143.12	-10,212.92	419.04	-94.21	513.25	0.816	Level 1	
17,700.00	7,889.00	17,630.39	7,754.95	271.42	272.05	-71.34	-1,142.69	-10,312.92	419.05	-99.29	518.34	0.808	Level 1	
17,800.00	7,889.00	17,730.39	7,754.95	274.09	274.72	-71.34	-1,142.25	-10,412.91	419.05	-104.38	523.43	0.801	Level 1	
17,900.00	7,889.00	17,830.46	7,754.97	276.77	277.40	-71.35	-1,141.81	-10,512.98	419.06	-109.47	528.53	0.793	Level 1	
17,961.29	7,889.00	17,891.74	7,755.00	278.41	279.04	-71.35	-1,141.55	-10,574.27	419.05	-112.61	531.66	0.788	Level 1, ES, SF	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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 5-6-8
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

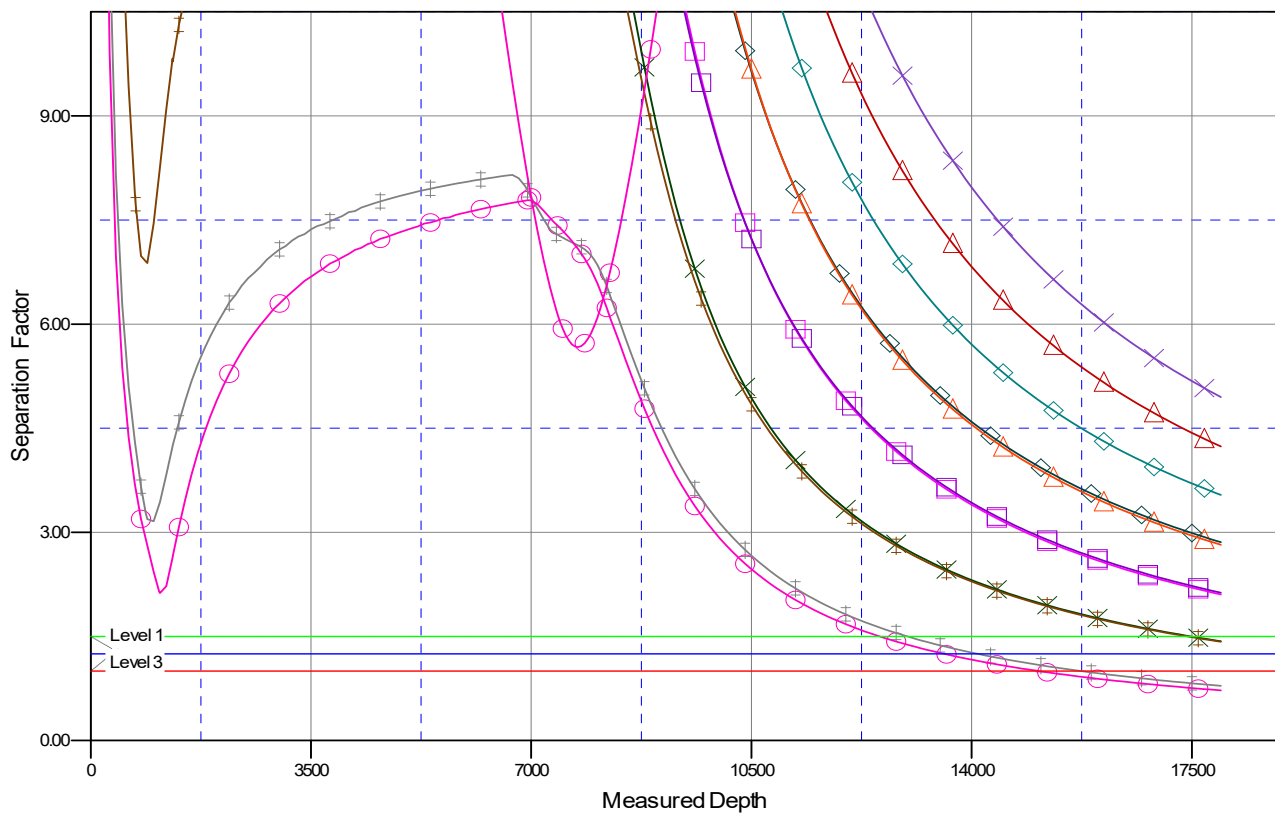
Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-8
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 5-6-8	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 5-6-8
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.53°

Separation Factor Plot



LEGEND

JAMASO 4-65 5-6-12, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-4, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-9, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 4-65 5-6-3, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-10, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-7, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 4-65 5-6-6, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-2, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-11, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 4-65 5-6-1, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-5, ORIGINAL WELLBORE, PROPOSAL 1 V0	EXIST. CO. PROPERTY RESERVE 4-65 3-4 1H Wellbore #1, Wellbore #1 V0