

AXIS EXPLORATION

ARAPAHOE COUNTY

Sec 4-T4S-R65W

JAMASO 4-65 5-6-6

ORIGINAL WELLBORE

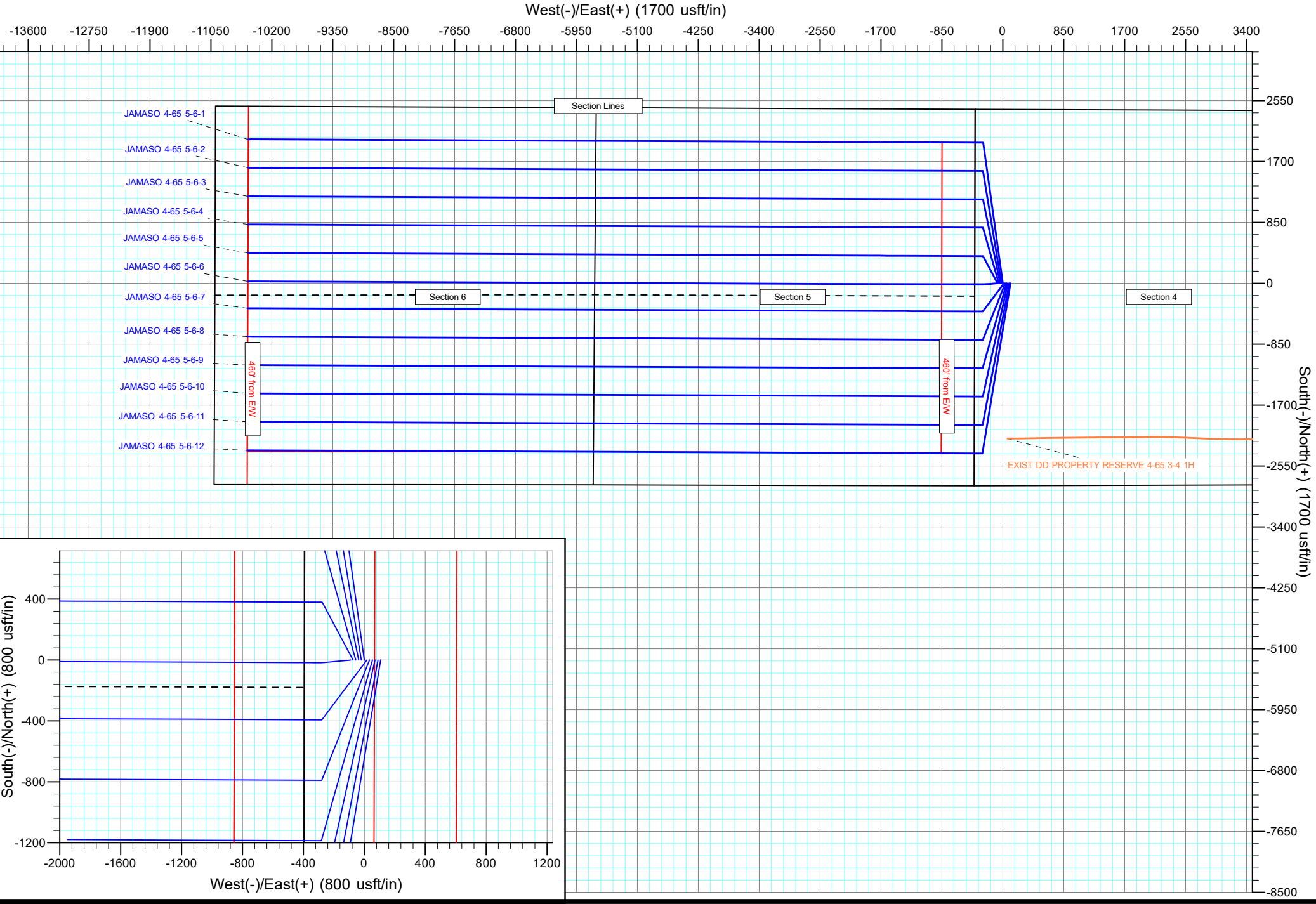
PROPOSAL 1

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 5-6-6
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 5-6-6	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	17,768.35	PROPOSAL 1 (ORIGINAL WELLBORE)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 4-T4S-R65W						
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,583.64	16,985.00	2,237.78	1,970.83	8.383	CC, ES
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,600.00	16,985.00	2,237.91	1,970.89	8.381	SF
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	466.36	466.75	89.14	86.23	30.653	CC
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	500.00	500.20	89.20	86.05	28.292	ES
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	17,768.61	18,239.20	1,989.88	1,437.12	3.600	SF
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	944.11	945.91	156.53	150.23	24.846	CC
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	1,000.00	1,000.95	156.80	150.08	23.349	ES
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	17,768.61	18,153.00	1,573.16	1,020.83	2.848	SF
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	735.48	737.18	176.89	172.05	36.553	CC
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	800.00	800.72	177.21	171.88	33.252	ES
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	17,768.61	18,212.39	1,964.35	1,409.52	3.540	SF
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	527.37	528.98	194.25	190.84	56.962	CC
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	600.00	600.50	194.60	190.62	48.936	ES
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	17,768.61	18,210.73	2,356.83	1,800.37	4.235	SF
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	654.87	655.21	69.39	65.14	16.317	CC
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	700.00	700.09	69.53	64.95	15.184	ES
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	17,768.61	18,089.21	1,590.23	1,037.49	2.877	SF
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	847.65	847.96	52.35	46.72	9.296	CC
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	900.00	900.03	52.59	46.58	8.752	ES
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	17,768.61	17,881.37	1,187.52	632.82	2.141	SF
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	1,029.38	1,029.63	32.47	25.54	4.684	CC, ES
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	17,768.61	17,998.18	814.48	273.41	1.505	SF
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	1,207.02	1,207.23	14.90	6.69	1.816	CC
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	17,768.61	17,916.79	419.05	-107.91	0.795	Level 1, ES, SF
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	1,643.45	1,647.66	102.16	90.96	9.125	CC
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	17,694.09	28,535.04	416.50	-343.89	0.548	Level 1, ES, SF
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	1,271.61	1,275.50	117.84	109.23	13.698	CC
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	1,292.85	1,296.73	117.93	109.18	13.475	ES
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	17,768.61	17,961.58	783.79	236.16	1.431	Level 3, SF
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	1,171.28	1,173.43	138.02	130.11	17.447	CC
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	1,200.00	1,201.71	138.11	129.99	17.006	ES
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	17,768.61	17,891.91	1,169.30	613.55	2.104	SF

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 83-MWD													Sec 4-T4S-R65W - EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbore #1 - Wellbore #1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	16,985.00	8,060.83	0.00	249.75	175.89	-2,164.51	155.42	8,246.48							
100.00	100.00	16,985.00	8,060.83	0.13	249.75	175.89	-2,164.51	155.42	8,150.05	8,050.20	99.85	81.621				
200.00	200.00	16,985.00	8,060.83	0.49	249.75	175.89	-2,164.51	155.42	8,053.71	7,953.34	100.36	80.245				
300.00	300.00	16,985.00	8,060.83	0.85	249.75	175.89	-2,164.51	155.42	7,957.45	7,856.55	100.90	78.865				
400.00	400.00	16,985.00	8,060.83	1.21	249.75	175.89	-2,164.51	155.42	7,861.29	7,759.83	101.46	77.481				
500.00	500.00	16,985.00	8,060.83	1.57	249.75	175.89	-2,164.51	155.42	7,765.22	7,663.17	102.05	76.095				
600.00	600.00	16,985.00	8,060.83	1.93	249.75	175.89	-2,164.51	155.42	7,669.26	7,566.60	102.66	74.705				
700.00	700.00	16,985.00	8,060.83	2.29	249.75	175.89	-2,164.51	155.42	7,573.40	7,470.10	103.30	73.315				
800.00	800.00	16,985.00	8,060.83	2.64	249.75	175.89	-2,164.51	155.42	7,477.64	7,373.68	103.97	71.924				
900.00	900.00	16,985.00	8,060.83	3.00	249.75	175.89	-2,164.51	155.42	7,382.01	7,277.34	104.66	70.533				
1,000.00	1,000.00	16,985.00	8,060.83	3.36	249.75	175.89	-2,164.51	155.42	7,286.48	7,181.10	105.38	69.142				
1,100.00	1,100.00	16,985.00	8,060.83	3.72	249.75	175.89	-2,164.51	155.42	7,191.08	7,084.95	106.14	67.754				
1,200.00	1,200.00	16,985.00	8,060.83	4.08	249.75	175.89	-2,164.51	155.42	7,095.81	6,988.89	106.92	66.368				
1,292.85	1,292.83	16,985.00	8,060.83	4.40	249.75	-94.69	-2,164.51	155.42	7,007.48	6,899.81	107.66	65.088				
1,300.00	1,299.98	16,985.00	8,060.83	4.43	249.75	-94.69	-2,164.51	155.42	7,000.68	6,892.96	107.72	64.990				
1,400.00	1,399.93	16,985.00	8,060.83	4.77	249.75	-94.69	-2,164.51	155.42	6,905.70	6,797.15	108.55	63.618				
1,500.00	1,499.87	16,985.00	8,060.83	5.12	249.75	-94.69	-2,164.51	155.42	6,810.88	6,701.47	109.41	62.250				
1,600.00	1,599.82	16,985.00	8,060.83	5.46	249.75	-94.69	-2,164.51	155.42	6,716.20	6,605.90	110.30	60.888				
1,700.00	1,699.77	16,985.00	8,060.83	5.81	249.75	-94.69	-2,164.51	155.42	6,621.68	6,510.45	111.23	59.532				
1,800.00	1,799.72	16,985.00	8,060.83	6.16	249.75	-94.69	-2,164.51	155.42	6,527.32	6,415.13	112.19	58.182				
1,900.00	1,899.66	16,985.00	8,060.83	6.52	249.75	-94.69	-2,164.51	155.42	6,433.13	6,319.95	113.18	56.840				
2,000.00	1,999.61	16,985.00	8,060.83	6.87	249.75	-94.69	-2,164.51	155.42	6,339.12	6,224.91	114.21	55.505				
2,100.00	2,099.56	16,985.00	8,060.83	7.22	249.75	-94.69	-2,164.51	155.42	6,245.30	6,130.02	115.27	54.178				
2,200.00	2,199.51	16,985.00	8,060.83	7.58	249.75	-94.69	-2,164.51	155.42	6,151.67	6,035.29	116.38	52.860				
2,300.00	2,299.45	16,985.00	8,060.83	7.94	249.75	-94.69	-2,164.51	155.42	6,058.24	5,940.73	117.52	51.551				
2,400.00	2,399.40	16,985.00	8,060.83	8.29	249.75	-94.69	-2,164.51	155.42	5,965.03	5,846.33	118.70	50.253				
2,500.00	2,499.35	16,985.00	8,060.83	8.65	249.75	-94.69	-2,164.51	155.42	5,872.04	5,752.12	119.93	48.964				
2,600.00	2,599.30	16,985.00	8,060.83	9.01	249.75	-94.69	-2,164.51	155.42	5,779.29	5,658.09	121.19	47.686				
2,700.00	2,699.24	16,985.00	8,060.83	9.37	249.75	-94.69	-2,164.51	155.42	5,686.78	5,564.27	122.51	46.419				
2,800.00	2,799.19	16,985.00	8,060.83	9.72	249.75	-94.69	-2,164.51	155.42	5,594.53	5,470.66	123.87	45.164				
2,900.00	2,899.14	16,985.00	8,060.83	10.08	249.75	-94.69	-2,164.51	155.42	5,502.55	5,377.27	125.28	43.921				
3,000.00	2,999.09	16,985.00	8,060.83	10.44	249.75	-94.69	-2,164.51	155.42	5,410.85	5,284.11	126.74	42.691				
3,100.00	3,099.03	16,985.00	8,060.83	10.80	249.75	-94.69	-2,164.51	155.42	5,319.45	5,191.19	128.26	41.474				
3,200.00	3,198.98	16,985.00	8,060.83	11.16	249.75	-94.69	-2,164.51	155.42	5,228.37	5,098.54	129.83	40.271				
3,300.00	3,298.93	16,985.00	8,060.83	11.52	249.75	-94.69	-2,164.51	155.42	5,137.62	5,006.16	131.46	39.082				
3,400.00	3,398.88	16,985.00	8,060.83	11.88	249.75	-94.69	-2,164.51	155.42	5,047.22	4,914.07	133.15	37.907				
3,500.00	3,498.82	16,985.00	8,060.83	12.24	249.75	-94.69	-2,164.51	155.42	4,957.19	4,822.29	134.90	36.747				
3,600.00	3,598.77	16,985.00	8,060.83	12.60	249.75	-94.69	-2,164.51	155.42	4,867.55	4,730.83	136.72	35.603				
3,700.00	3,698.72	16,985.00	8,060.83	12.96	249.75	-94.69	-2,164.51	155.42	4,778.32	4,639.71	138.60	34.475				
3,800.00	3,798.67	16,985.00	8,060.83	13.32	249.75	-94.69	-2,164.51	155.42	4,689.52	4,548.96	140.56	33.363				
3,900.00	3,898.61	16,985.00	8,060.83	13.68	249.75	-94.69	-2,164.51	155.42	4,601.18	4,458.59	142.59	32.268				
4,000.00	3,998.56	16,985.00	8,060.83	14.04	249.75	-94.69	-2,164.51	155.42	4,513.33	4,368.63	144.70	31.191				
4,100.00	4,098.51	16,985.00	8,060.83	14.40	249.75	-94.69	-2,164.51	155.42	4,425.99	4,279.11	146.89	30.132				
4,200.00	4,198.46	16,985.00	8,060.83	14.76	249.75	-94.69	-2,164.51	155.42	4,339.21	4,190.05	149.16	29.091				
4,300.00	4,298.40	16,985.00	8,060.83	15.13	249.75	-94.69	-2,164.51	155.42	4,253.00	4,101.48	151.52	28.069				
4,400.00	4,398.35	16,985.00	8,060.83	15.49	249.75	-94.69	-2,164.51	155.42	4,167.41	4,013.44	153.97	27.066				
4,500.00	4,498.30	16,985.00	8,060.83	15.85	249.75	-94.69	-2,164.51	155.42	4,082.47	3,925.96	156.51	26.084				
4,600.00	4,598.25	16,985.00	8,060.83	16.21	249.75	-94.69	-2,164.51	155.42	3,998.23	3,839.08	159.15	25.122				
4,700.00	4,698.19	16,985.00	8,060.83	16.57	249.75	-94.69	-2,164.51	155.42	3,914.73	3,752.84	161.89	24.181				
4,800.00	4,798.14	16,985.00	8,060.83	16.93	249.75	-94.69	-2,164.51	155.42	3,832.03	3,667.29	164.74	23.262				
4,900.00	4,898.09	16,985.00	8,060.83	17.29	249.75	-94.69	-2,164.51	155.42	3,750.16	3,582.48	167.69	22.364				
5,000.00	4,998.04	16,985.00	8,060.83	17.66	249.75	-94.69	-2,164.51	155.42	3,669.19	3,498.45	170.74	21.489				

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 83-MWD													Sec 4-T4S-R65W - EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbore #1 - Wellbore #1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	5,097.98	16,985.00	8,060.83	18.02	249.75	-94.69	-2,164.51	155.42	3,589.19	3,415.27	173.92	20.638				
5,200.00	5,197.93	16,985.00	8,060.83	18.38	249.75	-94.69	-2,164.51	155.42	3,510.21	3,333.01	177.20	19.809				
5,300.00	5,297.88	16,985.00	8,060.83	18.74	249.75	-94.69	-2,164.51	155.42	3,432.32	3,251.72	180.60	19.005				
5,400.00	5,397.83	16,985.00	8,060.83	19.10	249.75	-94.69	-2,164.51	155.42	3,355.61	3,171.49	184.12	18.225				
5,500.00	5,497.77	16,985.00	8,060.83	19.46	249.75	-94.69	-2,164.51	155.42	3,280.15	3,092.40	187.75	17.471				
5,600.00	5,597.72	16,985.00	8,060.83	19.83	249.75	-94.69	-2,164.51	155.42	3,206.04	3,014.54	191.50	16.742				
5,700.00	5,697.67	16,985.00	8,060.83	20.19	249.75	-94.69	-2,164.51	155.42	3,133.37	2,938.00	195.36	16.039				
5,800.00	5,797.62	16,985.00	8,060.83	20.55	249.75	-94.69	-2,164.51	155.42	3,062.23	2,862.90	199.34	15.362				
5,900.00	5,897.56	16,985.00	8,060.83	20.91	249.75	-94.69	-2,164.51	155.42	2,992.75	2,789.34	203.41	14.713				
6,000.00	5,997.51	16,985.00	8,060.83	21.27	249.75	-94.69	-2,164.51	155.42	2,925.04	2,717.45	207.59	14.091				
6,100.00	6,097.46	16,985.00	8,060.83	21.64	249.75	-94.69	-2,164.51	155.42	2,859.22	2,647.36	211.85	13.496				
6,200.00	6,197.41	16,985.00	8,060.83	22.00	249.75	-94.69	-2,164.51	155.42	2,795.43	2,579.23	216.19	12.930				
6,300.00	6,297.35	16,985.00	8,060.83	22.36	249.75	-94.69	-2,164.51	155.42	2,733.80	2,513.21	220.60	12.393				
6,400.00	6,397.30	16,985.00	8,060.83	22.72	249.75	-94.69	-2,164.51	155.42	2,674.50	2,449.46	225.04	11.885				
6,500.00	6,497.25	16,985.00	8,060.83	23.08	249.75	-94.69	-2,164.51	155.42	2,617.68	2,388.18	229.51	11.406				
6,600.00	6,597.20	16,985.00	8,060.83	23.45	249.75	-94.69	-2,164.51	155.42	2,563.50	2,329.54	233.97	10.957				
6,700.00	6,697.14	16,985.00	8,060.83	23.81	249.75	-94.69	-2,164.51	155.42	2,512.14	2,273.74	238.39	10.538				
6,800.00	6,797.09	16,985.00	8,060.83	24.17	249.75	-94.69	-2,164.51	155.42	2,463.76	2,221.01	242.75	10.150				
6,900.00	6,897.04	16,985.00	8,060.83	24.53	249.75	-94.69	-2,164.51	155.42	2,418.55	2,171.56	247.00	9.792				
7,000.00	6,996.99	16,985.00	8,060.83	24.90	249.75	-94.69	-2,164.51	155.42	2,376.69	2,125.60	251.10	9.465				
7,062.22	7,059.17	16,985.00	8,060.83	25.12	249.75	-94.69	-2,164.51	155.42	2,352.42	2,098.87	253.56	9.278				
7,100.00	7,096.94	16,985.00	8,060.83	25.26	249.75	-94.39	-2,164.51	155.42	2,338.35	2,083.34	255.01	9.170				
7,155.06	7,152.00	16,985.00	8,060.83	25.45	249.75	170.88	-2,164.51	155.42	2,318.72	2,061.64	257.08	9.019				
7,185.06	7,182.00	16,985.00	8,060.83	25.55	249.75	170.88	-2,164.51	155.42	2,308.50	2,050.32	258.18	8.942				
7,200.00	7,196.94	16,985.00	8,060.83	25.61	249.75	-99.88	-2,164.51	155.42	2,303.56	2,044.85	258.71	8.904				
7,250.00	7,246.80	16,985.00	8,060.83	25.79	249.75	-101.47	-2,164.51	155.42	2,288.16	2,027.75	260.42	8.787				
7,300.00	7,296.17	16,985.00	8,060.83	25.98	249.75	-102.85	-2,164.51	155.42	2,274.59	2,012.63	261.96	8.683				
7,350.00	7,344.67	16,985.00	8,060.83	26.19	249.75	-104.01	-2,164.51	155.42	2,262.99	1,999.65	263.33	8.594				
7,400.00	7,391.93	16,985.00	8,060.83	26.40	249.75	-104.95	-2,164.51	155.42	2,253.47	1,988.96	264.51	8.519				
7,450.00	7,437.60	16,985.00	8,060.83	26.62	249.75	-105.67	-2,164.51	155.42	2,246.13	1,980.66	265.47	8.461				
7,500.00	7,481.32	16,985.00	8,060.83	26.85	249.75	-106.16	-2,164.51	155.42	2,241.06	1,974.85	266.22	8.418				
7,550.00	7,522.76	16,985.00	8,060.83	27.09	249.75	-106.42	-2,164.51	155.42	2,238.31	1,971.58	266.73	8.392				
7,583.64	7,549.20	16,985.00	8,060.83	27.27	249.75	-106.47	-2,164.51	155.42	2,237.78	1,970.83	266.95	8.383 CC, ES				
7,600.00	7,561.61	16,985.00	8,060.83	27.36	249.75	-106.46	-2,164.51	155.42	2,237.91	1,970.89	267.01	8.381 SF				
7,650.00	7,597.57	16,985.00	8,060.83	27.65	249.75	-106.27	-2,164.51	155.42	2,239.85	1,972.78	267.07	8.387				
7,700.00	7,630.37	16,985.00	8,060.83	27.96	249.75	-105.86	-2,164.51	155.42	2,244.12	1,977.21	266.91	8.408				
7,750.00	7,659.76	16,985.00	8,060.83	28.32	249.75	-105.22	-2,164.51	155.42	2,250.68	1,984.14	266.54	8.444				
7,800.00	7,685.51	16,985.00	8,060.83	28.71	249.75	-104.36	-2,164.51	155.42	2,259.46	1,993.48	265.97	8.495				
7,850.00	7,707.43	16,985.00	8,060.83	29.14	249.75	-103.28	-2,164.51	155.42	2,270.35	2,005.13	265.22	8.560				
7,900.00	7,725.35	16,985.00	8,060.83	29.62	249.75	-101.97	-2,164.51	155.42	2,283.26	2,018.94	264.31	8.638				
7,950.00	7,739.14	16,985.00	8,060.83	30.14	249.75	-100.46	-2,164.51	155.42	2,298.04	2,034.78	263.26	8.729				
8,000.00	7,748.69	16,985.00	8,060.83	30.71	249.75	-98.73	-2,164.51	155.42	2,314.56	2,052.48	262.08	8.832				
8,050.00	7,753.92	16,985.00	8,060.83	31.31	249.75	-96.81	-2,164.51	155.42	2,332.65	2,071.87	260.78	8.945				
8,085.13	7,755.00	16,985.00	8,060.83	31.75	249.75	-95.35	-2,164.51	155.42	2,346.20	2,086.39	259.81	9.030				
8,100.00	7,755.00	16,985.00	8,060.83	31.94	249.75	-95.35	-2,164.51	155.42	2,352.12	2,092.72	259.39	9.068				
8,200.00	7,755.00	16,985.00	8,060.83	33.33	249.75	-95.35	-2,164.51	155.42	2,393.91	2,137.41	256.50	9.333				
8,300.00	7,755.00	16,985.00	8,060.83	34.87	249.75	-95.35	-2,164.51	155.42	2,439.10	2,185.60	253.50	9.622				
8,400.00	7,755.00	16,985.00	8,060.83	36.54	249.75	-95.35	-2,164.51	155.42	2,487.48	2,237.07	250.41	9.934				
8,500.00	7,755.00	16,985.00	8,060.83	38.33	249.75	-95.35	-2,164.51	155.42	2,538.88	2,291.65	247.24	10.269				
8,600.00	7,755.00	16,985.00	8,060.83	40.22	249.75	-95.35	-2,164.51	155.42	2,593.13	2,349.11	244.01	10.627				
8,700.00	7,755.00	16,985.00	8,060.83	42.19	249.75	-95.35	-2,164.51	155.42	2,650.03	2,409.28	240.76	11.007				
8,800.00	7,755.00	16,985.00	8,060.83	44.24	249.75	-95.35	-2,164.51	155.42	2,709.43	2,471.96	237.48	11.409				

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 5-6-6
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 5-6-6	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	7,755.00	16,985.00	8,060.83	46.36	249.75	-95.35	-2,164.51	155.42	2,771.17	2,536.98	234.20	11.833		
9,000.00	7,755.00	16,985.00	8,060.83	48.54	249.75	-95.35	-2,164.51	155.42	2,835.10	2,604.17	230.93	12.277		
9,100.00	7,755.00	16,985.00	8,060.83	50.76	249.75	-95.35	-2,164.51	155.42	2,901.06	2,673.38	227.68	12.742		
9,200.00	7,755.00	16,985.00	8,060.83	53.03	249.75	-95.35	-2,164.51	155.42	2,968.92	2,744.45	224.48	13.226		
9,300.00	7,755.00	16,985.00	8,060.83	55.33	249.75	-95.35	-2,164.51	155.42	3,038.57	2,817.25	221.31	13.730		
9,400.00	7,755.00	16,985.00	8,060.83	57.67	249.75	-95.35	-2,164.51	155.42	3,109.86	2,891.66	218.20	14.252		
9,500.00	7,755.00	16,985.00	8,060.83	60.03	249.75	-95.35	-2,164.51	155.42	3,182.71	2,967.56	215.15	14.793		
9,600.00	7,755.00	16,985.00	8,060.83	62.43	249.75	-95.35	-2,164.51	155.42	3,256.99	3,044.83	212.16	15.351		
9,700.00	7,755.00	16,985.00	8,060.83	64.84	249.75	-95.35	-2,164.51	155.42	3,332.62	3,123.37	209.25	15.927		
9,800.00	7,755.00	16,985.00	8,060.83	67.28	249.75	-95.35	-2,164.51	155.42	3,409.51	3,203.10	206.40	16.519		
9,900.00	7,755.00	16,985.00	8,060.83	69.74	249.75	-95.35	-2,164.51	155.42	3,487.56	3,283.94	203.63	17.127		
10,000.00	7,755.00	16,985.00	8,060.83	72.21	249.75	-95.35	-2,164.51	155.42	3,566.72	3,365.79	200.93	17.751		
10,100.00	7,755.00	16,985.00	8,060.83	74.70	249.75	-95.35	-2,164.51	155.42	3,646.89	3,448.59	198.31	18.390		
10,200.00	7,755.00	16,985.00	8,060.83	77.20	249.75	-95.35	-2,164.51	155.42	3,728.03	3,532.27	195.76	19.044		
10,300.00	7,755.00	16,985.00	8,060.83	79.71	249.75	-95.35	-2,164.51	155.42	3,810.06	3,616.77	193.29	19.712		
10,400.00	7,755.00	16,985.00	8,060.83	82.24	249.75	-95.35	-2,164.51	155.42	3,892.94	3,702.04	190.89	20.393		
10,500.00	7,755.00	16,985.00	8,060.83	84.77	249.75	-95.35	-2,164.51	155.42	3,976.60	3,788.03	188.57	21.089		
10,600.00	7,755.00	16,985.00	8,060.83	87.32	249.75	-95.35	-2,164.51	155.42	4,061.00	3,874.68	186.31	21.797		
10,700.00	7,755.00	16,985.00	8,060.83	89.87	249.75	-95.35	-2,164.51	155.42	4,146.09	3,961.96	184.13	22.517		
10,800.00	7,755.00	16,985.00	8,060.83	92.43	249.75	-95.35	-2,164.51	155.42	4,231.83	4,049.82	182.02	23.250		
10,900.00	7,755.00	16,985.00	8,060.83	95.00	249.75	-95.35	-2,164.51	155.42	4,318.19	4,138.22	179.97	23.994		
11,000.00	7,755.00	16,985.00	8,060.83	97.57	249.75	-95.35	-2,164.51	155.42	4,405.13	4,227.14	177.99	24.750		
11,100.00	7,755.00	16,985.00	8,060.83	100.15	249.75	-95.35	-2,164.51	155.42	4,492.61	4,316.54	176.07	25.516		
11,200.00	7,755.00	16,985.00	8,060.83	102.74	249.75	-95.35	-2,164.51	155.42	4,580.60	4,406.39	174.21	26.294		
11,300.00	7,755.00	16,985.00	8,060.83	105.33	249.75	-95.35	-2,164.51	155.42	4,669.08	4,496.67	172.41	27.081		
11,400.00	7,755.00	16,985.00	8,060.83	107.92	249.75	-95.35	-2,164.51	155.42	4,758.01	4,587.34	170.67	27.879		
11,500.00	7,755.00	16,985.00	8,060.83	110.52	249.75	-95.35	-2,164.51	155.42	4,847.37	4,678.39	168.98	28.686		
11,600.00	7,755.00	16,985.00	8,060.83	113.13	249.75	-95.35	-2,164.51	155.42	4,937.14	4,769.79	167.35	29.502		
11,700.00	7,755.00	16,985.00	8,060.83	115.74	249.75	-95.35	-2,164.51	155.42	5,027.30	4,861.53	165.77	30.327		
11,800.00	7,755.00	16,985.00	8,060.83	118.35	249.75	-95.35	-2,164.51	155.42	5,117.82	4,953.59	164.24	31.161		
11,900.00	7,755.00	16,985.00	8,060.83	120.96	249.75	-95.35	-2,164.51	155.42	5,208.69	5,045.94	162.75	32.003		
12,000.00	7,755.00	16,985.00	8,060.83	123.58	249.75	-95.35	-2,164.51	155.42	5,299.89	5,138.58	161.32	32.854		
12,100.00	7,755.00	16,985.00	8,060.83	126.20	249.75	-95.35	-2,164.51	155.42	5,391.40	5,231.48	159.93	33.712		
12,200.00	7,755.00	16,985.00	8,060.83	128.83	249.75	-95.35	-2,164.51	155.42	5,483.21	5,324.63	158.58	34.578		
12,300.00	7,755.00	16,985.00	8,060.83	131.46	249.75	-95.35	-2,164.51	155.42	5,575.30	5,418.03	157.27	35.451		
12,400.00	7,755.00	16,985.00	8,060.83	134.09	249.75	-95.35	-2,164.51	155.42	5,667.66	5,511.66	156.00	36.331		
12,500.00	7,755.00	16,985.00	8,060.83	136.72	249.75	-95.35	-2,164.51	155.42	5,760.27	5,605.50	154.77	37.218		
12,600.00	7,755.00	16,985.00	8,060.83	139.35	249.75	-95.35	-2,164.51	155.42	5,853.13	5,699.54	153.58	38.111		
12,700.00	7,755.00	16,985.00	8,060.83	141.99	249.75	-95.35	-2,164.51	155.42	5,946.21	5,793.79	152.43	39.011		
12,800.00	7,755.00	16,985.00	8,060.83	144.63	249.75	-95.35	-2,164.51	155.42	6,039.52	5,888.22	151.30	39.916		
12,900.00	7,755.00	16,985.00	8,060.83	147.27	249.75	-95.35	-2,164.51	155.42	6,133.04	5,982.82	150.22	40.828		
13,000.00	7,754.99	16,985.00	8,060.83	149.91	249.75	-95.35	-2,164.51	155.42	6,226.76	6,077.60	149.16	41.745		
13,100.00	7,754.99	16,985.00	8,060.83	152.55	249.75	-95.35	-2,164.51	155.42	6,320.67	6,172.54	148.14	42.668		
13,200.00	7,754.99	16,985.00	8,060.83	155.20	249.75	-95.35	-2,164.51	155.42	6,414.77	6,267.63	147.14	43.596		
13,300.00	7,754.99	16,985.00	8,060.83	157.84	249.75	-95.35	-2,164.51	155.42	6,509.04	6,362.87	146.18	44.529		
13,400.00	7,754.99	16,985.00	8,060.83	160.49	249.75	-95.35	-2,164.51	155.42	6,603.49	6,458.25	145.24	45.466		
13,500.00	7,754.99	16,985.00	8,060.83	163.14	249.75	-95.35	-2,164.51	155.42	6,698.09	6,553.76	144.33	46.409		
13,600.00	7,754.99	16,985.00	8,060.83	165.79	249.75	-95.35	-2,164.51	155.42	6,792.85	6,649.40	143.44	47.356		
13,700.00	7,754.99	16,985.00	8,060.83	168.44	249.75	-95.35	-2,164.51	155.42	6,887.75	6,745.17	142.58	48.307		
13,800.00	7,754.99	16,985.00	8,060.83	171.10	249.75	-95.35	-2,164.51	155.42	6,982.80	6,841.05	141.75	49.262		
13,900.00	7,754.99	16,985.00	8,060.83	173.75	249.75	-95.35	-2,164.51	155.42	7,077.99	6,937.05	140.94	50.222		
14,000.00	7,754.99	16,985.00	8,060.83	176.41	249.75	-95.35	-2,164.51	155.42	7,173.30	7,033.16	140.15	51.185		

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 5-6-6
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 5-6-6	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	7,754.99	16,985.00	8,060.83	179.06	249.75	-95.35	-2,164.51	155.42	7,268.74	7,129.36	139.38	52.151		
14,200.00	7,754.99	16,985.00	8,060.83	181.72	249.75	-95.35	-2,164.51	155.42	7,364.30	7,225.67	138.63	53.122		
14,300.00	7,754.99	16,985.00	8,060.83	184.38	249.75	-95.35	-2,164.51	155.42	7,459.98	7,322.08	137.90	54.095		
14,400.00	7,754.99	16,985.00	8,060.83	187.04	249.75	-95.35	-2,164.51	155.42	7,555.77	7,418.58	137.20	55.072		
14,500.00	7,754.99	16,985.00	8,060.83	189.70	249.75	-95.35	-2,164.51	155.42	7,651.67	7,515.16	136.51	56.052		
14,600.00	7,754.99	16,985.00	8,060.83	192.36	249.75	-95.35	-2,164.51	155.42	7,747.67	7,611.83	135.84	57.035		
14,700.00	7,754.99	16,985.00	8,060.83	195.02	249.75	-95.35	-2,164.51	155.42	7,843.78	7,708.59	135.19	58.020		
14,800.00	7,754.99	16,985.00	8,060.83	197.68	249.75	-95.35	-2,164.51	155.42	7,939.98	7,805.42	134.56	59.008		
14,900.00	7,754.99	16,985.00	8,060.83	200.34	249.75	-95.35	-2,164.51	155.42	8,036.27	7,902.33	133.94	59.999		
15,000.00	7,754.99	16,985.00	8,060.83	203.01	249.75	-95.35	-2,164.51	155.42	8,132.65	7,999.31	133.34	60.992		
15,100.00	7,754.99	16,985.00	8,060.83	205.67	249.75	-95.35	-2,164.51	155.42	8,229.11	8,096.36	132.75	61.987		
15,200.00	7,754.99	16,985.00	8,060.83	208.34	249.75	-95.35	-2,164.51	155.42	8,325.66	8,193.48	132.19	62.985		
15,300.00	7,754.99	16,985.00	8,060.83	211.00	249.75	-95.35	-2,164.51	155.42	8,422.29	8,290.66	131.63	63.984		
15,400.00	7,754.99	16,985.00	8,060.83	213.67	249.75	-95.35	-2,164.51	155.42	8,519.00	8,387.91	131.09	64.986		
15,500.00	7,754.99	16,985.00	8,060.83	216.34	249.75	-95.35	-2,164.51	155.42	8,615.79	8,485.22	130.56	65.989		
15,600.00	7,754.99	16,985.00	8,060.83	219.00	249.75	-95.35	-2,164.51	155.42	8,712.64	8,582.59	130.05	66.994		
15,700.00	7,754.99	16,985.00	8,060.83	221.67	249.75	-95.35	-2,164.51	155.42	8,809.57	8,680.02	129.55	68.001		
15,800.00	7,754.99	16,985.00	8,060.83	224.34	249.75	-95.35	-2,164.51	155.42	8,906.56	8,777.50	129.06	69.009		
15,900.00	7,754.99	16,985.00	8,060.83	227.01	249.75	-95.35	-2,164.51	155.42	9,003.63	8,875.04	128.59	70.019		
16,000.00	7,754.99	16,985.00	8,060.83	229.68	249.75	-95.35	-2,164.51	155.42	9,100.75	8,972.62	128.13	71.030		
16,100.00	7,754.99	16,985.00	8,060.83	232.35	249.75	-95.35	-2,164.51	155.42	9,197.93	9,070.26	127.67	72.042		
16,200.00	7,754.99	16,985.00	8,060.83	235.02	249.75	-95.35	-2,164.51	155.42	9,295.18	9,167.95	127.23	73.056		
16,300.00	7,754.99	16,985.00	8,060.83	237.69	249.75	-95.35	-2,164.51	155.42	9,392.48	9,265.68	126.81	74.070		
16,400.00	7,754.99	16,985.00	8,060.83	240.36	249.75	-95.35	-2,164.51	155.42	9,489.84	9,363.46	126.39	75.085		
16,500.00	7,754.99	16,985.00	8,060.83	243.03	249.75	-95.35	-2,164.51	155.42	9,587.26	9,461.28	125.98	76.102		
16,600.00	7,754.99	16,985.00	8,060.83	245.71	249.75	-95.35	-2,164.51	155.42	9,684.72	9,559.14	125.58	77.119		
16,700.00	7,754.99	16,985.00	8,060.83	248.38	249.75	-95.35	-2,164.51	155.42	9,782.24	9,657.05	125.19	78.137		
16,800.00	7,754.99	16,985.00	8,060.83	251.05	249.75	-95.35	-2,164.51	155.42	9,879.81	9,754.99	124.82	79.155		
16,900.00	7,754.99	16,985.00	8,060.83	253.72	249.75	-95.35	-2,164.51	155.42	9,977.42	9,852.98	124.45	80.175		

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 5-6-6
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 5-6-6	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	90.00	89.73	0.27	334.753	
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	90.00	90.00	89.01	0.99	91.296		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	90.00	90.00	88.07	1.70	52.687		
300.00	300.00	300.39	300.37	0.85	0.85	88.89	1.74	89.76	89.77	88.07	2.42	36.835		
400.00	400.00	400.54	400.38	1.21	1.22	85.54	6.95	89.03	89.30	86.88	2.91	30.653	CC	
466.36	466.36	466.75	466.36	1.45	1.46	82.07	12.29	88.29	89.14	86.23	3.15	28.292	ES	
500.00	500.00	500.20	499.65	1.57	1.59	79.95	15.56	87.83	89.20	86.05	3.89	23.233		
600.00	600.00	599.14	597.85	1.93	1.97	72.30	27.50	86.17	90.48	86.58	4.65	20.314		
700.00	700.00	697.12	694.63	2.29	2.37	63.12	42.61	84.07	94.40	89.76	5.40	18.927		
800.00	800.00	793.95	789.71	2.64	2.79	53.31	60.77	81.54	102.21	96.81	6.14	18.693		
900.00	900.00	889.42	882.79	3.00	3.24	43.87	81.77	78.62	114.73	108.59	6.85	19.304		
1,000.00	1,000.00	983.35	973.63	3.36	3.71	35.55	105.42	75.32	132.22	125.37	7.53	20.522		
1,100.00	1,100.00	1,075.59	1,062.02	3.72	4.20	28.60	131.50	71.69	154.51	146.99	8.24	21.865		
1,200.00	1,200.00	1,170.66	1,152.63	4.08	4.74	22.94	160.00	67.73	180.08	171.85	8.90	23.110		
1,292.85	1,292.83	1,259.16	1,236.98	4.40	5.25	114.00	186.53	64.03	205.57	196.67	8.95	23.202		
1,300.00	1,299.98	1,265.98	1,243.48	4.43	5.29	113.79	188.58	63.75	207.61	198.66	9.66	24.474		
1,400.00	1,399.93	1,361.28	1,334.31	4.77	5.84	111.20	217.15	59.77	236.31	226.66	10.37	25.594		
1,500.00	1,499.87	1,456.59	1,425.14	5.12	6.41	109.18	245.73	55.79	265.37	255.00	11.09	26.581		
1,600.00	1,599.82	1,551.89	1,515.98	5.46	6.97	107.55	274.30	51.81	294.68	283.59	11.81	27.455		
1,700.00	1,699.77	1,647.20	1,606.81	5.81	7.54	106.21	302.88	47.83	324.16	312.35	12.53	28.232		
1,800.00	1,799.72	1,742.50	1,697.65	6.16	8.11	105.10	331.45	43.86	353.78	341.25	13.26	28.926		
1,900.00	1,899.66	1,837.81	1,788.48	6.52	8.68	104.16	360.03	39.88	383.50	370.24	13.99	29.549		
2,000.00	1,999.61	1,933.11	1,879.31	6.87	9.25	103.35	388.60	35.90	413.30	399.31	14.72	30.110		
2,100.00	2,099.56	2,028.42	1,970.15	7.22	9.83	102.66	417.18	31.92	443.17	428.45	15.45	30.618		
2,200.00	2,199.51	2,123.73	2,060.98	7.58	10.40	102.05	445.75	27.94	473.09	457.63	16.19	31.080		
2,300.00	2,299.45	2,219.03	2,151.82	7.94	10.98	101.51	474.32	23.97	503.05	486.86	16.92	31.501		
2,400.00	2,399.40	2,314.34	2,242.65	8.29	11.56	101.03	502.90	19.99	533.05	516.13	17.66	31.887		
2,500.00	2,499.35	2,409.64	2,333.48	8.65	12.14	100.61	531.47	16.01	563.08	545.42	18.40	32.242		
2,600.00	2,599.30	2,504.95	2,424.32	9.01	12.71	100.22	560.05	12.03	593.13	574.73	19.14	32.568		
2,700.00	2,699.24	2,600.25	2,515.15	9.37	13.29	99.88	588.62	8.05	623.20	604.07	19.91	32.808		
2,800.00	2,799.19	2,704.44	2,605.99	9.72	13.93	99.56	617.20	4.08	653.30	633.39	20.62	33.150		
2,900.00	2,899.14	2,790.87	2,696.82	10.08	14.45	99.27	645.77	0.10	683.41	662.79	21.36	33.410		
3,000.00	2,999.09	2,886.17	2,787.65	10.44	15.03	99.01	674.35	-3.88	713.53	692.18	22.10	33.653		
3,100.00	3,099.03	2,981.48	2,878.49	10.80	15.62	98.77	702.92	-7.86	743.67	721.57	22.84	33.879		
3,200.00	3,198.98	3,076.78	2,969.32	11.16	16.20	98.55	731.50	-11.84	773.82	750.98	23.58	34.091		
3,300.00	3,298.93	3,172.09	3,060.16	11.52	16.78	98.34	760.07	-15.81	803.98	780.40	24.33	34.289		
3,400.00	3,398.88	3,267.39	3,150.99	11.88	17.36	98.15	788.65	-19.79	834.15	809.82	25.07	34.475		
3,500.00	3,498.82	3,362.70	3,241.82	12.24	17.94	97.97	817.22	-23.77	864.32	839.25	25.81	34.651		
3,600.00	3,598.77	3,458.00	3,332.66	12.60	18.52	97.81	845.80	-27.75	894.50	868.69	26.56	34.816		
3,700.00	3,698.72	3,553.31	3,423.49	12.96	19.11	97.65	874.37	-31.73	924.69	898.13	27.30	34.972		
3,800.00	3,798.67	3,648.62	3,514.33	13.32	19.69	97.51	902.95	-35.70	954.89	927.58	28.05	35.120		
3,900.00	3,898.61	3,743.92	3,605.16	13.68	20.27	97.37	931.52	-39.68	985.09	957.04	28.80	35.259		
4,000.00	3,998.56	3,839.23	3,695.99	14.04	20.85	97.24	960.09	-43.66	1,015.29	986.50	29.54	35.391		
4,100.00	4,098.51	3,934.53	3,786.83	14.40	21.43	97.12	988.67	-47.64	1,045.50	1,015.96	30.29	35.517		
4,200.00	4,198.46	4,029.84	3,877.66	14.76	22.02	97.01	1,017.24	-51.62	1,075.71	1,045.42	31.03	35.636		
4,300.00	4,298.40	4,125.14	3,968.50	15.13	22.60	96.90	1,045.82	-55.60	1,105.93	1,074.89	31.78	35.750		
4,400.00	4,398.35	4,220.45	4,059.33	15.49	23.18	96.80	1,074.39	-59.57	1,136.15	1,104.37	32.53	35.858		
4,500.00	4,498.30	4,315.76	4,150.16	15.85	23.77	96.70	1,102.97	-63.55	1,166.37	1,133.84	33.27	35.961		
4,600.00	4,598.25	4,411.06	4,241.00	16.21	24.35	96.61	1,131.54	-67.53	1,196.60	1,163.32	34.02	36.060		
4,700.00	4,698.19	4,506.37	4,331.83	16.57	24.93	96.52	1,160.12	-71.51	1,226.82	1,192.80	34.77	36.154		
4,800.00	4,798.14	4,601.67	4,422.67	16.93	25.52	96.44	1,188.69	-75.49	1,257.05	1,222.29	35.52	36.244		
4,900.00	4,898.09	4,696.98	4,513.50	17.29	26.10	96.36	1,217.27	-79.46	1,287.29	1,251.77				

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 5-6-6
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 5-6-6	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	4,998.04	4,807.72	4,604.33	17.66	26.78	96.29	1,245.84	-83.44	1,317.52	1,281.19	36.33	36.264		
5,100.00	5,097.98	4,887.59	4,695.17	18.02	27.27	96.21	1,274.42	-87.42	1,347.76	1,310.75	37.01	36.412		
5,200.00	5,197.93	4,982.89	4,786.00	18.38	27.85	96.15	1,302.99	-91.40	1,378.00	1,340.24	37.76	36.491		
5,300.00	5,297.88	5,078.20	4,876.84	18.74	28.43	96.08	1,331.57	-95.38	1,408.24	1,369.73	38.51	36.567		
5,400.00	5,397.83	5,173.51	4,967.67	19.10	29.02	96.02	1,360.14	-99.35	1,438.48	1,399.22	39.26	36.640		
5,500.00	5,497.77	5,268.81	5,058.50	19.46	29.60	95.96	1,388.72	-103.33	1,468.73	1,428.72	40.01	36.710		
5,600.00	5,597.72	5,364.12	5,149.34	19.83	30.18	95.90	1,417.29	-107.31	1,498.97	1,458.21	40.76	36.777		
5,700.00	5,697.67	5,459.42	5,240.17	20.19	30.77	95.84	1,445.87	-111.29	1,529.22	1,487.71	41.51	36.842		
5,800.00	5,797.62	5,554.73	5,331.01	20.55	31.35	95.79	1,474.44	-115.27	1,559.47	1,517.21	42.26	36.904		
5,900.00	5,897.56	5,650.03	5,421.84	20.91	31.93	95.74	1,503.01	-119.24	1,589.71	1,546.71	43.01	36.964		
6,000.00	5,997.51	5,745.34	5,512.68	21.27	32.52	95.69	1,531.59	-123.22	1,619.96	1,576.21	43.76	37.022		
6,100.00	6,097.46	5,840.64	5,603.51	21.64	33.10	95.64	1,560.16	-127.20	1,650.22	1,605.71	44.51	37.077		
6,200.00	6,197.41	5,935.95	5,694.34	22.00	33.68	95.59	1,588.74	-131.18	1,680.47	1,635.21	45.26	37.131		
6,300.00	6,297.35	6,031.26	5,785.18	22.36	34.27	95.55	1,617.31	-135.16	1,710.72	1,664.71	46.01	37.183		
6,400.00	6,397.30	6,126.56	5,876.01	22.72	34.85	95.50	1,645.89	-139.13	1,740.98	1,694.22	46.76	37.233		
6,500.00	6,497.25	6,221.87	5,966.85	23.08	35.44	95.46	1,674.46	-143.11	1,771.23	1,723.72	47.51	37.281		
6,600.00	6,597.20	6,317.17	6,057.68	23.45	36.02	95.42	1,703.04	-147.09	1,801.49	1,753.23	48.26	37.328		
6,700.00	6,697.14	6,412.48	6,148.51	23.81	36.60	95.38	1,731.61	-151.07	1,831.74	1,782.73	49.01	37.373		
6,800.00	6,797.09	6,507.78	6,239.35	24.17	37.19	95.35	1,760.19	-155.05	1,862.00	1,812.24	49.76	37.417		
6,900.00	6,897.04	6,603.09	6,330.18	24.53	37.77	95.31	1,788.76	-159.02	1,892.26	1,841.74	50.51	37.459		
7,000.00	6,996.99	6,698.40	6,421.02	24.90	38.36	95.27	1,817.34	-163.00	1,922.52	1,871.25	51.27	37.500		
7,062.22	7,059.17	6,782.77	6,501.51	25.12	38.87	95.25	1,842.40	-166.49	1,941.26	1,889.34	51.92	37.389		
7,100.00	7,096.94	6,893.80	6,608.35	25.26	39.50	95.41	1,872.27	-170.65	1,951.51	1,898.81	52.71	37.025		
7,155.06	7,152.00	7,059.63	6,769.91	25.45	40.34	0.40	1,909.20	-175.79	1,963.82	1,910.10	53.73	36.552		
7,185.06	7,182.00	7,151.70	6,860.46	25.55	40.76	0.33	1,925.68	-178.09	1,969.19	1,914.98	54.21	36.324		
7,200.00	7,196.94	7,197.93	6,906.12	25.61	40.96	89.83	1,932.87	-179.09	1,971.51	1,917.08	54.44	36.215		
7,250.00	7,246.80	7,353.88	7,060.89	25.79	41.53	89.46	1,951.72	-181.71	1,977.54	1,922.44	55.10	35.888		
7,300.00	7,296.17	7,509.82	7,216.45	25.98	42.01	89.79	1,962.20	-183.17	1,980.88	1,925.25	55.63	35.609		
7,350.00	7,344.67	7,638.08	7,344.67	26.19	42.31	90.57	1,964.55	-183.50	1,981.71	1,925.69	56.02	35.373		
7,400.00	7,391.93	7,687.30	7,393.87	26.40	42.42	90.99	1,964.55	-184.33	1,981.93	1,925.52	56.41	35.132		
7,450.00	7,437.60	7,738.70	7,445.01	26.62	42.54	91.42	1,964.58	-189.40	1,982.28	1,925.47	56.82	34.889		
7,500.00	7,481.32	7,791.74	7,497.07	26.85	42.66	91.85	1,964.62	-199.40	1,982.75	1,925.51	57.24	34.639		
7,550.00	7,522.76	7,846.53	7,549.66	27.09	42.80	92.28	1,964.69	-214.75	1,983.33	1,925.64	57.69	34.381		
7,600.00	7,561.61	7,903.21	7,602.24	27.36	42.95	92.69	1,964.78	-235.83	1,984.00	1,925.84	58.16	34.112		
7,650.00	7,597.57	7,961.87	7,654.20	27.65	43.11	93.10	1,964.90	-263.01	1,984.74	1,926.06	58.68	33.824		
7,700.00	7,630.37	8,022.60	7,704.77	27.96	43.29	93.48	1,965.05	-296.58	1,985.53	1,926.29	59.24	33.517		
7,750.00	7,659.76	8,085.42	7,753.04	28.32	43.48	93.85	1,965.22	-336.74	1,986.35	1,926.49	59.86	33.183		
7,800.00	7,685.51	8,150.34	7,797.99	28.71	43.69	94.18	1,965.43	-383.52	1,987.15	1,926.60	60.55	32.818		
7,850.00	7,707.43	8,217.27	7,838.50	29.14	43.93	94.48	1,965.66	-436.75	1,987.90	1,926.57	61.34	32.410		
7,900.00	7,725.35	8,286.05	7,873.36	29.62	44.19	94.74	1,965.92	-496.00	1,988.57	1,926.35	62.22	31.958		
7,950.00	7,739.14	8,356.46	7,901.44	30.14	44.50	94.95	1,966.21	-560.52	1,989.13	1,925.91	63.22	31.463		
8,000.00	7,748.69	8,428.16	7,921.69	30.71	44.86	95.10	1,966.51	-629.25	1,989.55	1,925.19	64.36	30.913		
8,050.00	7,753.92	8,500.76	7,933.29	31.31	45.27	95.19	1,966.82	-700.87	1,989.80	1,924.20	65.60	30.330		
8,085.13	7,755.00	8,552.06	7,935.98	31.75	45.59	95.22	1,967.05	-752.07	1,989.87	1,923.33	66.55	29.902		
8,100.00	7,755.00	8,568.32	7,936.00	31.94	45.70	95.22	1,967.12	-768.34	1,989.88	1,922.95	66.93	29.731		
8,200.00	7,755.00	8,668.32	7,936.00	33.33	46.44	95.22	1,967.56	-868.34	1,989.88	1,920.25	69.63	28.579		
8,300.00	7,755.00	8,768.32	7,936.00	34.87	47.31	95.22	1,968.00	-968.34	1,989.88	1,917.27	72.61	27.406		
8,400.00	7,755.00	8,868.32	7,936.00	36.54	48.31	95.22	1,968.44	-1,068.34	1,989.89	1,914.03	75.85	26.234		
8,500.00	7,755.00	8,968.32	7,935.99	38.33	49.45	95.22	1,968.88	-1,168.34	1,989.89	1,910.56	79.33	25.085		
8,600.00	7,755.00	9,068.32	7,935.99	40.22	50.73	95.22	1,969.32	-1,268.34	1,989.89	1,906.89	83.00	23.975		
8,700.00	7,755.00	9,168.32	7,935.99	42.19	52.13	95.22	1,969.76	-1,368.34	1,989.90	1,903.05	86.85	22.912		
8,800.00	7,755.00	9,268.32	7,935.99	44.24	53.65	95.22	1,970.20	-1,468.34	1,989.90	1,899.05	90.85	21.903		

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 5-6-6
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 5-6-6	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	7,755.00	9,368.32	7,935.99	46.36	55.29	95.22	1,970.64	-1,568.34	1,989.90	1,894.92	94.99	20.950		
9,000.00	7,755.00	9,468.32	7,935.99	48.54	57.02	95.22	1,971.08	-1,668.33	1,989.91	1,890.67	99.24	20.052		
9,100.00	7,755.00	9,568.32	7,935.99	50.76	58.84	95.22	1,971.52	-1,768.33	1,989.91	1,886.32	103.59	19.209		
9,200.00	7,755.00	9,668.32	7,935.98	53.03	60.74	95.22	1,971.96	-1,868.33	1,989.91	1,881.88	108.04	18.419		
9,300.00	7,755.00	9,768.32	7,935.98	55.33	62.71	95.22	1,972.40	-1,968.33	1,989.92	1,877.35	112.56	17.678		
9,400.00	7,755.00	9,868.32	7,935.98	57.67	64.74	95.22	1,972.84	-2,068.33	1,989.92	1,872.76	117.16	16.985		
9,500.00	7,755.00	9,968.32	7,935.98	60.03	66.83	95.22	1,973.28	-2,168.33	1,989.92	1,868.11	121.81	16.336		
9,600.00	7,755.00	10,068.32	7,935.98	62.43	68.97	95.22	1,973.72	-2,268.33	1,989.93	1,863.40	126.53	15.727		
9,700.00	7,755.00	10,168.32	7,935.98	64.84	71.15	95.22	1,974.16	-2,368.33	1,989.93	1,858.64	131.29	15.157		
9,800.00	7,755.00	10,268.32	7,935.98	67.28	73.37	95.22	1,974.60	-2,468.33	1,989.93	1,853.84	136.10	14.622		
9,900.00	7,755.00	10,368.32	7,935.97	69.74	75.63	95.22	1,975.04	-2,568.33	1,989.94	1,849.00	140.94	14.119		
10,000.00	7,755.00	10,468.32	7,935.97	72.21	77.91	95.22	1,975.48	-2,668.32	1,989.94	1,844.12	145.82	13.646		
10,100.00	7,755.00	10,568.32	7,935.97	74.70	80.23	95.22	1,975.92	-2,768.32	1,989.94	1,839.21	150.74	13.201		
10,200.00	7,755.00	10,668.32	7,935.97	77.20	82.57	95.22	1,976.36	-2,868.32	1,989.95	1,834.27	155.68	12.782		
10,300.00	7,755.00	10,768.32	7,935.97	79.71	84.93	95.22	1,976.80	-2,968.32	1,989.95	1,829.30	160.65	12.387		
10,400.00	7,755.00	10,868.32	7,935.97	82.24	87.32	95.22	1,977.24	-3,068.32	1,989.95	1,824.31	165.65	12.013		
10,500.00	7,755.00	10,968.32	7,935.97	84.77	89.72	95.22	1,977.68	-3,168.32	1,989.96	1,819.30	170.66	11.660		
10,600.00	7,755.00	11,068.32	7,935.96	87.32	92.14	95.22	1,978.12	-3,268.32	1,989.96	1,814.26	175.70	11.326		
10,700.00	7,755.00	11,168.32	7,935.96	89.87	94.58	95.22	1,978.56	-3,368.32	1,989.97	1,809.21	180.75	11.009		
10,800.00	7,755.00	11,268.32	7,935.96	92.43	97.03	95.22	1,979.00	-3,468.32	1,989.97	1,804.14	185.82	10.709		
10,900.00	7,755.00	11,368.32	7,935.96	95.00	99.49	95.22	1,979.44	-3,568.32	1,989.97	1,799.06	190.91	10.423		
11,000.00	7,755.00	11,468.32	7,935.96	97.57	101.97	95.22	1,979.88	-3,668.32	1,989.98	1,793.96	196.01	10.152		
11,100.00	7,755.00	11,568.32	7,935.96	100.15	104.46	95.22	1,980.32	-3,768.31	1,989.98	1,788.85	201.13	9.894		
11,200.00	7,755.00	11,668.32	7,935.96	102.74	106.96	95.22	1,980.76	-3,868.31	1,989.98	1,783.73	206.26	9.648		
11,300.00	7,755.00	11,768.32	7,935.95	105.33	109.46	95.22	1,981.20	-3,968.31	1,989.99	1,778.59	211.40	9.414		
11,400.00	7,755.00	11,868.32	7,935.95	107.92	111.98	95.22	1,981.64	-4,068.31	1,989.99	1,773.44	216.55	9.190		
11,500.00	7,755.00	11,968.32	7,935.95	110.52	114.51	95.22	1,982.08	-4,168.31	1,989.99	1,768.29	221.70	8.976		
11,600.00	7,755.00	12,068.32	7,935.95	113.13	117.04	95.22	1,982.51	-4,268.31	1,990.00	1,763.12	226.87	8.771		
11,700.00	7,755.00	12,168.32	7,935.95	115.74	119.58	95.22	1,982.95	-4,368.31	1,990.00	1,757.95	232.05	8.576		
11,800.00	7,755.00	12,268.32	7,935.95	118.35	122.13	95.22	1,983.39	-4,468.31	1,990.00	1,752.77	237.24	8.388		
11,900.00	7,755.00	12,368.32	7,935.95	120.96	124.68	95.22	1,983.83	-4,568.31	1,990.01	1,747.58	242.43	8.209		
12,000.00	7,755.00	12,468.32	7,935.94	123.58	127.24	95.22	1,984.27	-4,668.31	1,990.01	1,742.38	247.63	8.036		
12,100.00	7,755.00	12,568.32	7,935.94	126.20	129.81	95.22	1,984.71	-4,768.30	1,990.01	1,737.18	252.84	7.871		
12,200.00	7,755.00	12,668.32	7,935.94	128.83	132.38	95.22	1,985.15	-4,868.30	1,990.02	1,731.97	258.05	7.712		
12,300.00	7,755.00	12,768.32	7,935.94	131.46	134.95	95.22	1,985.59	-4,968.30	1,990.02	1,726.75	263.27	7.559		
12,400.00	7,755.00	12,868.32	7,935.94	134.09	137.53	95.22	1,986.03	-5,068.30	1,990.02	1,721.53	268.49	7.412		
12,500.00	7,755.00	12,968.32	7,935.94	136.72	140.11	95.22	1,986.47	-5,168.30	1,990.03	1,716.31	273.72	7.270		
12,600.00	7,755.00	13,068.32	7,935.94	139.35	142.70	95.22	1,986.91	-5,268.30	1,990.03	1,711.08	278.95	7.134		
12,700.00	7,755.00	13,168.32	7,935.93	141.99	145.29	95.22	1,987.35	-5,368.30	1,990.03	1,705.84	284.19	7.002		
12,800.00	7,755.00	13,268.32	7,935.93	144.63	147.89	95.22	1,987.79	-5,468.30	1,990.04	1,700.60	289.44	6.876		
12,900.00	7,755.00	13,368.32	7,935.93	147.27	150.49	95.22	1,988.23	-5,568.30	1,990.04	1,695.36	294.68	6.753		
13,000.00	7,754.99	13,468.32	7,935.93	149.91	153.09	95.22	1,988.67	-5,668.30	1,990.04	1,690.11	299.93	6.635		
13,100.00	7,754.99	13,568.32	7,935.93	152.55	155.69	95.22	1,989.11	-5,768.29	1,990.05	1,684.86	305.19	6.521		
13,200.00	7,754.99	13,668.32	7,935.93	155.20	158.30	95.22	1,989.55	-5,868.29	1,990.05	1,679.60	310.45	6.410		
13,300.00	7,754.99	13,768.32	7,935.93	157.84	160.91	95.22	1,989.99	-5,968.29	1,990.06	1,674.35	315.71	6.303		
13,400.00	7,754.99	13,868.32	7,935.92	160.49	163.53	95.22	1,990.43	-6,068.29	1,990.06	1,669.08	320.97	6.200		
13,500.00	7,754.99	13,968.32	7,935.92	163.14	166.14	95.22	1,990.87	-6,168.29	1,990.06	1,663.82	326.24	6.100		
13,600.00	7,754.99	14,068.32	7,935.92	165.79	168.76	95.22	1,991.31	-6,268.29	1,990.07	1,658.55	331.51	6.003		
13,700.00	7,754.99	14,168.32	7,935.92	168.44	171.38	95.22	1,991.75	-6,368.29	1,990.07	1,653.28	336.79	5.909		
13,800.00	7,754.99	14,268.32	7,935.92	171.10	174.00	95.22	1,992.19	-6,468.29	1,990.07	1,648.01	342.06	5.818		
13,900.00	7,754.99	14,368.32	7,935.92	173.75	176.63	95.22	1,992.63	-6,568.29	1,990.08	1,642.73	347.34	5.729		
14,000.00	7,754.99	14,468.32	7,935.92	176.41	179.26	95.22	1,993.07	-6,668.29	1,990.08	1,637.46	352.62	5.644		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,754.99	14,568.32	7,935.91	179.06	181.88	95.22	1,993.51	-6,768.29	1,990.08	1,632.18	357.91	5.560		
14,200.00	7,754.99	14,668.32	7,935.91	181.72	184.52	95.22	1,993.95	-6,868.28	1,990.09	1,626.89	363.19	5.479		
14,300.00	7,754.99	14,768.32	7,935.91	184.38	187.15	95.22	1,994.39	-6,968.28	1,990.09	1,621.61	368.48	5.401		
14,400.00	7,754.99	14,868.32	7,935.91	187.04	189.78	95.22	1,994.83	-7,068.28	1,990.09	1,616.32	373.77	5.324		
14,500.00	7,754.99	14,968.32	7,935.91	189.70	192.42	95.22	1,995.27	-7,168.28	1,990.10	1,611.04	379.06	5.250		
14,600.00	7,754.99	15,068.32	7,935.91	192.36	195.05	95.22	1,995.71	-7,268.28	1,990.10	1,605.75	384.35	5.178		
14,700.00	7,754.99	15,168.32	7,935.91	195.02	197.69	95.22	1,996.15	-7,368.28	1,990.10	1,600.45	389.65	5.107		
14,800.00	7,754.99	15,268.32	7,935.90	197.68	200.33	95.22	1,996.59	-7,468.28	1,990.11	1,595.16	394.95	5.039		
14,900.00	7,754.99	15,368.32	7,935.90	200.34	202.97	95.22	1,997.03	-7,568.28	1,990.11	1,589.87	400.24	4.972		
15,000.00	7,754.99	15,468.32	7,935.90	203.01	205.62	95.22	1,997.47	-7,668.28	1,990.11	1,584.57	405.54	4.907		
15,100.00	7,754.99	15,568.32	7,935.90	205.67	208.26	95.22	1,997.91	-7,768.28	1,990.12	1,579.27	410.85	4.844		
15,200.00	7,754.99	15,668.32	7,935.90	208.34	210.91	95.22	1,998.35	-7,868.27	1,990.12	1,573.97	416.15	4.782		
15,300.00	7,754.99	15,768.32	7,935.90	211.00	213.55	95.22	1,998.79	-7,968.27	1,990.12	1,568.67	421.45	4.722		
15,400.00	7,754.99	15,868.32	7,935.90	213.67	216.20	95.22	1,999.23	-8,068.27	1,990.13	1,563.37	426.76	4.663		
15,500.00	7,754.99	15,968.32	7,935.89	216.34	218.85	95.22	1,999.67	-8,168.27	1,990.13	1,558.06	432.07	4.606		
15,600.00	7,754.99	16,068.32	7,935.89	219.00	221.50	95.22	2,000.11	-8,268.27	1,990.13	1,552.76	437.38	4.550		
15,700.00	7,754.99	16,168.32	7,935.89	221.67	224.15	95.22	2,000.55	-8,368.27	1,990.14	1,547.45	442.68	4.496		
15,800.00	7,754.99	16,268.32	7,935.89	224.34	226.80	95.22	2,000.99	-8,468.27	1,990.14	1,542.15	448.00	4.442		
15,900.00	7,754.99	16,368.32	7,935.89	227.01	229.45	95.22	2,001.43	-8,568.27	1,990.15	1,536.84	453.31	4.390		
16,000.00	7,754.99	16,468.32	7,935.89	229.68	232.10	95.22	2,001.87	-8,668.27	1,990.15	1,531.53	458.62	4.339		
16,100.00	7,754.99	16,568.32	7,935.89	232.35	234.76	95.22	2,002.31	-8,768.27	1,990.15	1,526.22	463.93	4.290		
16,200.00	7,754.99	16,668.32	7,935.88	235.02	237.41	95.22	2,002.75	-8,868.26	1,990.16	1,520.91	469.25	4.241		
16,300.00	7,754.99	16,768.32	7,935.88	237.69	240.07	95.21	2,003.19	-8,968.26	1,990.16	1,515.59	474.56	4.194		
16,400.00	7,754.99	16,868.32	7,935.88	240.36	242.72	95.21	2,003.63	-9,068.26	1,990.16	1,510.28	479.88	4.147		
16,500.00	7,754.99	16,968.32	7,935.88	243.03	245.38	95.21	2,004.07	-9,168.26	1,990.17	1,504.97	485.20	4.102		
16,600.00	7,754.99	17,068.32	7,935.88	245.71	248.04	95.21	2,004.51	-9,268.26	1,990.17	1,499.65	490.52	4.057		
16,700.00	7,754.99	17,168.32	7,935.88	248.38	250.70	95.21	2,004.95	-9,368.26	1,990.17	1,494.33	495.84	4.014		
16,800.00	7,754.99	17,268.32	7,935.88	251.05	253.35	95.21	2,005.39	-9,468.26	1,990.18	1,489.02	501.16	3.971		
16,900.00	7,754.99	17,368.32	7,935.87	253.72	256.01	95.21	2,005.83	-9,568.26	1,990.18	1,483.70	506.48	3.929		
17,000.00	7,754.99	17,468.32	7,935.87	256.40	258.67	95.21	2,006.26	-9,668.26	1,990.18	1,478.38	511.80	3.889		
17,100.00	7,754.99	17,568.32	7,935.87	259.07	261.34	95.21	2,006.70	-9,768.26	1,990.19	1,473.06	517.12	3.849		
17,200.00	7,754.99	17,668.32	7,935.87	261.75	264.00	95.21	2,007.14	-9,868.26	1,990.19	1,467.74	522.45	3.809		
17,300.00	7,754.99	17,768.32	7,935.87	264.42	266.66	95.21	2,007.58	-9,968.25	1,990.19	1,462.42	527.77	3.771		
17,400.00	7,754.99	17,868.32	7,935.87	267.10	269.32	95.21	2,008.02	-10,068.25	1,990.20	1,457.10	533.10	3.733		
17,500.00	7,754.99	17,968.32	7,935.87	269.77	271.99	95.21	2,008.46	-10,168.25	1,990.20	1,451.78	538.42	3.696		
17,600.00	7,754.99	18,068.32	7,935.86	272.45	274.65	95.21	2,008.90	-10,268.25	1,990.20	1,446.46	543.75	3.660		
17,700.00	7,754.99	18,168.32	7,935.86	275.12	277.31	95.21	2,009.34	-10,368.25	1,990.21	1,441.13	549.07	3.625		
17,768.61	7,755.00	18,239.20	7,936.00	276.96	279.20	95.22	2,009.31	-10,439.12	1,989.88	1,437.12	552.76	3.600 SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	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	160.31	160.31					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	160.31	160.31	160.04	0.27	596.279		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	160.31	160.31	159.33	0.99	162.622		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	160.31	160.31	158.61	1.70	94.149		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	160.31	160.31	157.89	2.42	66.253		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	160.31	160.31	157.18	3.14	51.110		
600.00	600.00	601.18	601.16	1.93	1.91	90.62	-1.74	159.93	159.94	156.10	3.84	41.646		
700.00	700.00	702.11	701.94	2.29	2.25	92.51	-6.96	158.77	158.94	154.40	4.54	35.035		
800.00	800.00	802.54	801.98	2.64	2.60	95.67	-15.58	156.86	157.65	152.40	5.25	30.053		
900.00	900.00	902.23	900.91	3.00	2.97	100.12	-27.53	154.22	156.66	150.69	5.97	26.236		
944.11	944.11	945.91	944.11	3.16	3.14	102.48	-33.82	152.83	156.53	150.23	6.30	24.846 CC		
1,000.00	1,000.00	1,000.95	998.40	3.36	3.35	105.79	-42.66	150.87	156.80	150.08	6.72	23.349 ES		
1,100.00	1,100.00	1,098.48	1,094.14	3.72	3.76	112.50	-60.82	146.86	159.06	151.58	7.48	21.274		
1,200.00	1,200.00	1,194.63	1,187.84	4.08	4.20	119.91	-81.82	142.21	164.52	156.27	8.24	19.954		
1,292.85	1,292.83	1,283.57	1,273.91	4.40	4.63	-137.98	-103.73	137.36	174.27	165.33	8.95	19.476		
1,300.00	1,299.98	1,309.50	1,280.60	4.43	4.75	-137.49	-105.47	136.98	175.23	166.13	9.09	19.268		
1,400.00	1,399.93	1,387.34	1,374.19	4.77	5.15	-131.20	-129.77	131.60	189.83	180.07	9.75	19.464		
1,500.00	1,499.87	1,484.19	1,467.78	5.12	5.64	-125.84	-154.07	126.22	206.41	195.92	10.49	19.671		
1,600.00	1,599.82	1,581.03	1,561.37	5.46	6.15	-121.28	-178.37	120.85	224.54	213.32	11.23	20.002		
1,700.00	1,699.77	1,677.87	1,654.96	5.81	6.67	-117.40	-202.67	115.47	243.88	231.93	11.95	20.402		
1,800.00	1,799.72	1,774.71	1,748.55	6.16	7.18	-114.09	-226.97	110.09	264.16	251.48	12.68	20.834		
1,900.00	1,899.66	1,871.56	1,842.14	6.52	7.71	-111.25	-251.27	104.71	285.17	271.77	13.40	21.278		
2,000.00	1,999.61	1,968.40	1,935.73	6.87	8.24	-108.81	-275.57	99.34	306.77	292.65	14.13	21.718		
2,100.00	2,099.56	2,065.24	2,029.32	7.22	8.76	-106.68	-299.87	93.96	328.84	314.00	14.85	22.147		
2,200.00	2,199.51	2,162.09	2,122.91	7.58	9.30	-104.82	-324.17	88.58	351.30	335.73	15.57	22.560		
2,300.00	2,299.45	2,258.93	2,216.50	7.94	9.83	-103.18	-348.47	83.21	374.07	357.77	16.30	22.954		
2,400.00	2,399.40	2,355.77	2,310.09	8.29	10.37	-101.72	-372.77	77.83	397.10	380.07	17.02	23.329		
2,500.00	2,499.35	2,452.61	2,403.68	8.65	10.90	-100.43	-397.07	72.45	420.34	402.59	17.75	23.685		
2,600.00	2,599.30	2,549.46	2,497.27	9.01	11.44	-99.27	-421.37	67.08	443.77	425.29	18.47	24.020		
2,700.00	2,699.24	2,646.30	2,590.86	9.37	11.98	-98.23	-445.68	61.70	467.35	448.15	19.20	24.338		
2,800.00	2,799.19	2,743.14	2,684.45	9.72	12.52	-97.29	-469.98	56.32	491.07	471.14	19.93	24.637		
2,900.00	2,899.14	2,839.98	2,778.04	10.08	13.06	-96.43	-494.28	50.95	514.90	494.24	20.66	25.120		
3,000.00	2,999.09	2,936.83	2,871.63	10.44	13.61	-95.65	-518.58	45.57	538.83	517.44	21.39	25.987		
3,100.00	3,099.03	3,033.67	2,965.22	10.80	14.15	-94.94	-542.88	40.19	562.85	540.72	22.12	25.440		
3,200.00	3,198.98	3,130.51	3,058.81	11.16	14.69	-94.28	-567.18	34.82	586.94	564.09	22.86	25.678		
3,300.00	3,298.93	3,227.35	3,152.40	11.52	15.24	-93.67	-591.48	29.44	611.10	587.51	23.59	25.904		
3,400.00	3,398.88	3,324.20	3,245.99	11.88	15.78	-93.12	-615.78	24.06	635.32	611.00	24.32	26.119		
3,500.00	3,498.82	3,421.04	3,339.58	12.24	16.32	-92.60	-640.08	18.69	659.60	634.54	25.06	26.321		
3,600.00	3,598.77	3,517.88	3,433.17	12.60	16.87	-92.12	-664.38	13.31	683.92	658.12	25.79	26.514		
3,700.00	3,698.72	3,614.72	3,526.76	12.96	17.41	-91.67	-688.68	7.93	708.28	681.75	26.53	26.697		
3,800.00	3,798.67	3,711.57	3,620.35	13.32	17.96	-91.25	-712.98	2.56	732.68	705.42	27.27	26.871		
3,900.00	3,898.61	3,808.41	3,713.94	13.68	18.51	-90.86	-737.28	-2.82	757.12	729.11	28.00	27.037		
4,000.00	3,998.56	3,905.25	3,807.53	14.04	19.05	-90.49	-761.58	-8.20	781.58	752.84	28.74	27.194		
4,100.00	4,098.51	4,002.10	3,901.12	14.40	19.60	-90.15	-785.88	-13.57	806.08	776.60	29.48	27.345		
4,200.00	4,198.46	4,101.06	3,994.71	14.76	20.16	-89.82	-810.18	-18.95	830.60	800.37	30.23	27.480		
4,300.00	4,298.40	4,204.22	4,088.30	15.13	20.74	-89.52	-834.48	-24.33	855.14	824.15	30.99	27.594		
4,400.00	4,398.35	4,307.38	4,181.89	15.49	21.32	-89.23	-858.78	-29.70	879.71	847.96	31.76	27.703		
4,500.00	4,498.30	4,389.47	4,275.48	15.85	21.78	-88.95	-883.08	-35.08	904.30	871.86	32.43	27.882		
4,600.00	4,598.25	4,486.31	4,369.07	16.21	22.33	-88.70	-907.39	-40.46	928.90	895.73	33.17	28.002		
4,700.00	4,698.19	4,583.15	4,462.66	16.57	22.88	-88.45	-931.69	-45.84	953.52	919.61	33.91	28.117		
4,800.00	4,798.14	4,679.99	4,556.25	16.93	23.43	-88.22	-955.99	-51.21	978.16	943.51	34.65	28.228		
4,900.00	4,898.09	4,776.84	4,649.84	17.29	23.97	-88.00	-980.29	-56.59	1,002.81	967.42	35.39	28.334		

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 5-6-6
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 5-6-6	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	4,998.04	4,873.68	4,743.43	17.66	24.52	-87.78	-1,004.59	-61.97	1,027.48	991.34	36.13	28.435		
5,100.00	5,097.98	4,970.52	4,837.02	18.02	25.07	-87.58	-1,028.89	-67.34	1,052.15	1,015.28	36.87	28.533		
5,200.00	5,197.93	5,067.36	4,930.61	18.38	25.62	-87.39	-1,053.19	-72.72	1,076.84	1,039.23	37.62	28.627		
5,300.00	5,297.88	5,164.21	5,024.20	18.74	26.16	-87.21	-1,077.49	-78.10	1,101.54	1,063.18	38.36	28.718		
5,400.00	5,397.83	5,261.05	5,117.79	19.10	26.71	-87.03	-1,101.79	-83.47	1,126.25	1,087.15	39.10	28.805		
5,500.00	5,497.77	5,357.89	5,211.38	19.46	27.26	-86.87	-1,126.09	-88.85	1,150.97	1,111.13	39.84	28.889		
5,600.00	5,597.72	5,454.74	5,304.97	19.83	27.81	-86.70	-1,150.39	-94.23	1,175.70	1,135.12	40.58	28.970		
5,700.00	5,697.67	5,551.58	5,398.56	20.19	28.36	-86.55	-1,174.69	-99.60	1,200.44	1,159.11	41.33	29.048		
5,800.00	5,797.62	5,648.42	5,492.15	20.55	28.91	-86.40	-1,198.99	-104.98	1,225.18	1,183.11	42.07	29.123		
5,900.00	5,897.56	5,745.26	5,585.74	20.91	29.45	-86.26	-1,223.29	-110.36	1,249.93	1,207.12	42.81	29.196		
6,000.00	5,997.51	5,842.11	5,679.33	21.27	30.00	-86.12	-1,247.59	-115.73	1,274.69	1,231.14	43.55	29.266		
6,100.00	6,097.46	5,938.95	5,772.92	21.64	30.55	-85.99	-1,271.89	-121.11	1,299.46	1,255.16	44.30	29.334		
6,200.00	6,197.41	6,035.79	5,866.51	22.00	31.10	-85.87	-1,296.19	-126.49	1,324.23	1,279.19	45.04	29.400		
6,300.00	6,297.35	6,132.63	5,960.10	22.36	31.65	-85.74	-1,320.49	-131.86	1,349.01	1,303.22	45.79	29.464		
6,400.00	6,397.30	6,229.48	6,053.69	22.72	32.20	-85.63	-1,344.79	-137.24	1,373.79	1,327.26	46.53	29.525		
6,500.00	6,497.25	6,326.32	6,147.28	23.08	32.75	-85.51	-1,369.10	-142.62	1,398.58	1,351.31	47.27	29.585		
6,600.00	6,597.20	6,423.16	6,240.87	23.45	33.29	-85.40	-1,393.40	-147.99	1,423.37	1,375.35	48.02	29.643		
6,700.00	6,697.14	6,520.00	6,334.46	23.81	33.84	-85.30	-1,417.70	-153.37	1,448.17	1,399.41	48.76	29.699		
6,800.00	6,797.09	6,616.85	6,428.05	24.17	34.39	-85.20	-1,442.00	-158.75	1,472.97	1,423.47	49.51	29.753		
6,900.00	6,897.04	6,713.69	6,521.64	24.53	34.94	-85.10	-1,466.30	-164.12	1,497.78	1,447.53	50.25	29.806		
7,000.00	6,996.99	6,831.11	6,635.19	24.90	35.60	-84.99	-1,490.50	-170.59	1,522.46	1,471.31	51.15	29.766		
7,062.22	7,059.17	6,957.93	6,758.83	25.12	36.26	-84.90	-1,523.00	-176.67	1,535.78	1,483.73	52.05	29.507		
7,100.00	7,096.94	7,036.04	6,835.56	25.26	36.64	-85.00	-1,537.26	-179.83	1,542.59	1,490.04	52.55	29.353		
7,155.06	7,152.00	7,151.09	6,949.24	25.45	37.14	179.79	-1,554.54	-183.65	1,550.81	1,497.59	53.22	29.140		
7,185.06	7,182.00	7,214.31	7,011.97	25.55	37.40	179.86	-1,562.13	-185.33	1,554.42	1,500.87	53.55	29.027		
7,200.00	7,196.94	7,245.91	7,043.39	25.61	37.51	-90.22	-1,565.42	-186.06	1,555.97	1,502.27	53.70	28.973		
7,250.00	7,246.80	7,351.95	7,149.06	25.79	37.88	-90.02	-1,573.98	-187.95	1,560.02	1,505.81	54.20	28.780		
7,300.00	7,296.17	7,457.38	7,254.37	25.98	38.20	-90.36	-1,578.70	-188.99	1,562.30	1,507.65	54.66	28.584		
7,350.00	7,344.67	7,547.69	7,344.67	26.19	38.43	-91.07	-1,579.75	-189.23	1,562.98	1,507.92	55.06	28.388		
7,400.00	7,391.93	7,597.48	7,394.45	26.40	38.55	-91.59	-1,579.75	-190.09	1,563.36	1,507.90	55.46	28.189		
7,450.00	7,437.60	7,649.87	7,446.56	26.62	38.68	-92.14	-1,579.73	-195.35	1,563.90	1,508.01	55.89	27.983		
7,500.00	7,481.32	7,703.99	7,499.64	26.85	38.83	-92.68	-1,579.68	-205.76	1,564.58	1,508.24	56.33	27.774		
7,550.00	7,522.76	7,759.93	7,553.24	27.09	39.00	-93.21	-1,579.61	-221.73	1,565.38	1,508.58	56.80	27.560		
7,600.00	7,561.61	7,817.83	7,606.79	27.36	39.17	-93.73	-1,579.52	-243.68	1,566.29	1,509.00	57.29	27.339		
7,650.00	7,597.57	7,877.77	7,659.60	27.65	39.36	-94.23	-1,579.39	-271.96	1,567.28	1,509.47	57.81	27.110		
7,700.00	7,630.37	7,939.79	7,710.83	27.96	39.57	-94.70	-1,579.24	-306.87	1,568.30	1,509.93	58.37	26.868		
7,750.00	7,659.76	8,003.92	7,759.51	28.32	39.79	-95.14	-1,579.06	-348.57	1,569.33	1,510.34	58.98	26.607		
7,800.00	7,685.51	8,070.11	7,804.54	28.71	40.04	-95.54	-1,578.85	-397.02	1,570.31	1,510.64	59.66	26.320		
7,850.00	7,707.43	8,138.22	7,844.73	29.14	40.31	-95.89	-1,578.61	-451.96	1,571.20	1,510.77	60.43	26.001		
7,900.00	7,725.35	8,208.06	7,878.88	29.62	40.61	-96.18	-1,578.35	-512.83	1,571.97	1,510.67	61.30	25.643		
7,950.00	7,739.14	8,279.33	7,905.83	30.14	40.95	-96.40	-1,578.06	-578.76	1,572.57	1,510.27	62.30	25.240		
8,000.00	7,748.69	8,351.65	7,924.61	30.71	41.35	-96.54	-1,577.76	-648.55	1,572.97	1,509.54	63.43	24.797		
8,050.00	7,753.92	8,424.60	7,934.50	31.31	41.81	-96.61	-1,577.44	-720.77	1,573.15	1,508.44	64.70	24.313		
8,085.06	7,755.00	8,472.77	7,936.00	31.75	42.15	-96.61	-1,577.23	-768.91	1,573.14	1,507.50	65.64	23.965		
8,085.13	7,755.00	8,472.84	7,936.00	31.75	42.15	-96.61	-1,577.23	-768.98	1,573.14	1,507.50	65.64	23.965		
8,100.00	7,755.00	8,487.71	7,936.00	31.94	42.26	-96.61	-1,577.17	-783.85	1,573.14	1,507.12	66.03	23.826		
8,200.00	7,755.00	8,587.71	7,936.00	33.33	43.09	-96.61	-1,576.73	-883.85	1,573.15	1,504.37	68.78	22.873		
8,300.00	7,755.00	8,687.71	7,936.00	34.87	44.07	-96.61	-1,576.30	-983.85	1,573.15	1,501.33	71.82	21.904		
8,400.00	7,755.00	8,787.71	7,935.99	36.54	45.20	-96.61	-1,575.86	-1,083.85	1,573.15	1,498.03	75.12	20.942		
8,500.00	7,755.00	8,887.71	7,935.99	38.33	46.48	-96.61	-1,575.43	-1,183.85	1,573.15	1,494.50	78.65	20.003		
8,600.00	7,755.00	8,987.71	7,935.99	40.22	47.91	-96.61	-1,574.99	-1,283.85	1,573.15	1,490.78	82.37	19.098		
8,700.00	7,755.00	9,087.71	7,935.99	42.19	49.47	-96.61	-1,574.56	-1,383.84	1,573.15	1,486.89	86.27	18.236		

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 5-6-6
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 5-6-6	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	7,755.00	9,187.71	7,935.99	44.24	51.15	-96.61	-1,574.13	-1,483.84	1,573.15	1,482.84	90.31	17.419		
8,900.00	7,755.00	9,287.71	7,935.99	46.36	52.94	-96.61	-1,573.69	-1,583.84	1,573.16	1,478.67	94.49	16.650		
9,000.00	7,755.00	9,387.71	7,935.98	48.54	54.82	-96.61	-1,573.26	-1,683.84	1,573.16	1,474.38	98.77	15.927		
9,100.00	7,755.00	9,487.71	7,935.98	50.76	56.78	-96.61	-1,572.82	-1,783.84	1,573.16	1,470.00	103.16	15.250		
9,200.00	7,755.00	9,587.71	7,935.98	53.03	58.81	-96.61	-1,572.39	-1,883.84	1,573.16	1,465.52	107.64	14.616		
9,300.00	7,755.00	9,687.71	7,935.98	55.33	60.90	-96.61	-1,571.95	-1,983.84	1,573.16	1,460.97	112.19	14.023		
9,400.00	7,755.00	9,787.71	7,935.98	57.67	63.04	-96.61	-1,571.52	-2,083.84	1,573.16	1,456.36	116.81	13.468		
9,500.00	7,755.00	9,887.71	7,935.97	60.03	65.23	-96.61	-1,571.08	-2,183.84	1,573.16	1,451.68	121.49	12.949		
9,600.00	7,755.00	9,987.71	7,935.97	62.43	67.47	-96.61	-1,570.65	-2,283.84	1,573.17	1,446.95	126.22	12.464		
9,700.00	7,755.00	10,087.71	7,935.97	64.84	69.74	-96.61	-1,570.21	-2,383.83	1,573.17	1,442.17	131.00	12.009		
9,800.00	7,755.00	10,187.71	7,935.97	67.28	72.04	-96.61	-1,569.78	-2,483.83	1,573.17	1,437.35	135.82	11.583		
9,900.00	7,755.00	10,287.71	7,935.97	69.74	74.37	-96.61	-1,569.35	-2,583.83	1,573.17	1,432.49	140.68	11.182		
10,000.00	7,755.00	10,387.71	7,935.97	72.21	76.73	-96.61	-1,568.91	-2,683.83	1,573.17	1,427.59	145.58	10.806		
10,100.00	7,755.00	10,487.71	7,935.96	74.70	79.11	-96.61	-1,568.48	-2,783.83	1,573.17	1,422.67	150.51	10.453		
10,200.00	7,755.00	10,587.71	7,935.96	77.20	81.52	-96.61	-1,568.04	-2,883.83	1,573.17	1,417.71	155.46	10.119		
10,300.00	7,755.00	10,687.71	7,935.96	79.71	83.94	-96.61	-1,567.61	-2,983.83	1,573.18	1,412.73	160.44	9.805		
10,400.00	7,755.00	10,787.71	7,935.96	82.24	86.38	-96.61	-1,567.17	-3,083.83	1,573.18	1,407.73	165.45	9.509		
10,500.00	7,755.00	10,887.71	7,935.96	84.77	88.84	-96.61	-1,566.74	-3,183.83	1,573.18	1,402.71	170.47	9.228		
10,600.00	7,755.00	10,987.71	7,935.95	87.32	91.31	-96.61	-1,566.30	-3,283.83	1,573.18	1,397.67	175.51	8.963		
10,700.00	7,755.00	11,087.71	7,935.95	89.87	93.79	-96.61	-1,565.87	-3,383.83	1,573.18	1,392.61	180.58	8.712		
10,800.00	7,755.00	11,187.71	7,935.95	92.43	96.29	-96.60	-1,565.43	-3,483.82	1,573.18	1,387.53	185.65	8.474		
10,900.00	7,755.00	11,287.71	7,935.95	95.00	98.79	-96.60	-1,565.00	-3,583.82	1,573.18	1,382.44	190.75	8.248		
11,000.00	7,755.00	11,387.71	7,935.95	97.57	101.31	-96.60	-1,564.57	-3,683.82	1,573.19	1,377.33	195.85	8.032		
11,100.00	7,755.00	11,487.71	7,935.95	100.15	103.83	-96.60	-1,564.13	-3,783.82	1,573.19	1,372.22	200.97	7.828		
11,200.00	7,755.00	11,587.71	7,935.94	102.74	106.37	-96.60	-1,563.70	-3,883.82	1,573.19	1,367.09	206.10	7.633		
11,300.00	7,755.00	11,687.71	7,935.94	105.33	108.91	-96.60	-1,563.26	-3,983.82	1,573.19	1,361.95	211.25	7.447		
11,400.00	7,755.00	11,787.71	7,935.94	107.92	111.46	-96.60	-1,562.83	-4,083.82	1,573.19	1,356.79	216.40	7.270		
11,500.00	7,755.00	11,887.71	7,935.94	110.52	114.02	-96.60	-1,562.39	-4,183.82	1,573.19	1,351.63	221.56	7.101		
11,600.00	7,755.00	11,987.71	7,935.94	113.13	116.58	-96.60	-1,561.96	-4,283.82	1,573.20	1,346.46	226.73	6.939		
11,700.00	7,755.00	12,087.71	7,935.93	115.74	119.15	-96.60	-1,561.52	-4,383.82	1,573.20	1,341.29	231.91	6.784		
11,800.00	7,755.00	12,187.71	7,935.93	118.35	121.73	-96.60	-1,561.09	-4,483.82	1,573.20	1,336.10	237.10	6.635		
11,900.00	7,755.00	12,287.71	7,935.93	120.96	124.31	-96.60	-1,560.65	-4,583.81	1,573.20	1,330.91	242.29	6.493		
12,000.00	7,755.00	12,387.71	7,935.93	123.58	126.89	-96.60	-1,560.22	-4,683.81	1,573.20	1,325.71	247.49	6.357		
12,100.00	7,755.00	12,487.71	7,935.93	126.20	129.48	-96.60	-1,559.79	-4,783.81	1,573.20	1,320.51	252.70	6.226		
12,200.00	7,755.00	12,587.71	7,935.93	128.83	132.08	-96.60	-1,559.35	-4,883.81	1,573.20	1,315.30	257.91	6.100		
12,300.00	7,755.00	12,687.71	7,935.92	131.46	134.68	-96.60	-1,558.92	-4,983.81	1,573.21	1,310.08	263.13	5.979		
12,400.00	7,755.00	12,787.71	7,935.92	134.09	137.28	-96.60	-1,558.48	-5,083.81	1,573.21	1,304.86	268.35	5.863		
12,500.00	7,755.00	12,887.71	7,935.92	136.72	139.88	-96.60	-1,558.05	-5,183.81	1,573.21	1,299.63	273.58	5.750		
12,600.00	7,755.00	12,987.71	7,935.92	139.35	142.49	-96.60	-1,557.61	-5,283.81	1,573.21	1,294.40	278.81	5.643		
12,700.00	7,755.00	13,087.71	7,935.92	141.99	145.10	-96.60	-1,557.18	-5,383.81	1,573.21	1,289.16	284.05	5.539		
12,800.00	7,755.00	13,187.71	7,935.91	144.63	147.72	-96.60	-1,556.74	-5,483.81	1,573.21	1,283.92	289.29	5.438		
12,900.00	7,755.00	13,287.71	7,935.91	147.27	150.34	-96.60	-1,556.31	-5,583.80	1,573.21	1,278.68	294.54	5.341		
13,000.00	7,754.99	13,387.71	7,935.91	149.91	152.96	-96.60	-1,555.87	-5,683.80	1,573.22	1,273.43	299.79	5.248		
13,100.00	7,754.99	13,487.71	7,935.91	152.55	155.58	-96.60	-1,555.44	-5,783.80	1,573.22	1,268.18	305.04	5.157		
13,200.00	7,754.99	13,587.71	7,935.91	155.20	158.21	-96.60	-1,555.01	-5,883.80	1,573.22	1,262.92	310.29	5.070		
13,300.00	7,754.99	13,687.71	7,935.91	157.84	160.83	-96.60	-1,554.57	-5,983.80	1,573.22	1,257.67	315.55	4.986		
13,400.00	7,754.99	13,787.71	7,935.90	160.49	163.46	-96.60	-1,554.14	-6,083.80	1,573.22	1,252.40	320.82	4.904		
13,500.00	7,754.99	13,887.71	7,935.90	163.14	166.10	-96.60	-1,553.70	-6,183.80	1,573.22	1,247.14	326.08	4.825		
13,600.00	7,754.99	13,987.71	7,935.90	165.79	168.73	-96.60	-1,553.27	-6,283.80	1,573.22	1,241.87	331.35	4.748		
13,700.00	7,754.99	14,087.71	7,935.90	168.44	171.37	-96.60	-1,552.83	-6,383.80	1,573.23	1,236.60	336.62	4.674		
13,800.00	7,754.99	14,187.71	7,935.90	171.10	174.00	-96.60	-1,552.40	-6,483.80	1,573.23	1,231.33	341.89	4.601		
13,900.00	7,754.99	14,287.71	7,935.89	173.75	176.64	-96.60	-1,551.96	-6,583.80	1,573.23	1,226.06	347.17	4.532		

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 5-6-6
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 5-6-6	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			
14,000.00	7,754.99	14,387.71	7,935.89	176.41	179.28	-96.60	-1,551.53	-6,683.79	1,573.23	1,220.78	352.45	4.464			
14,100.00	7,754.99	14,487.71	7,935.89	179.06	181.93	-96.60	-1,551.09	-6,783.79	1,573.23	1,215.50	357.73	4.398			
14,200.00	7,754.99	14,587.71	7,935.89	181.72	184.57	-96.60	-1,550.66	-6,883.79	1,573.23	1,210.22	363.01	4.334			
14,300.00	7,754.99	14,687.71	7,935.89	184.38	187.22	-96.60	-1,550.23	-6,983.79	1,573.23	1,204.94	368.30	4.272			
14,400.00	7,754.99	14,787.71	7,935.89	187.04	189.86	-96.60	-1,549.79	-7,083.79	1,573.24	1,199.65	373.58	4.211			
14,500.00	7,754.99	14,887.71	7,935.88	189.70	192.51	-96.60	-1,549.36	-7,183.79	1,573.24	1,194.37	378.87	4.152			
14,600.00	7,754.99	14,987.71	7,935.88	192.36	195.16	-96.60	-1,548.92	-7,283.79	1,573.24	1,189.08	384.16	4.095			
14,700.00	7,754.99	15,087.71	7,935.88	195.02	197.81	-96.60	-1,548.49	-7,383.79	1,573.24	1,183.79	389.45	4.040			
14,800.00	7,754.99	15,187.71	7,935.88	197.68	200.46	-96.60	-1,548.05	-7,483.79	1,573.24	1,178.50	394.74	3.985			
14,900.00	7,754.99	15,287.71	7,935.88	200.34	203.12	-96.60	-1,547.62	-7,583.79	1,573.24	1,173.20	400.04	3.933			
15,000.00	7,754.99	15,387.71	7,935.87	203.01	205.77	-96.60	-1,547.18	-7,683.79	1,573.24	1,167.91	405.34	3.881			
15,100.00	7,754.99	15,487.71	7,935.87	205.67	208.43	-96.60	-1,546.75	-7,783.78	1,573.25	1,162.61	410.63	3.831			
15,200.00	7,754.99	15,587.71	7,935.87	208.34	211.08	-96.60	-1,546.31	-7,883.78	1,573.25	1,157.32	415.93	3.782			
15,300.00	7,754.99	15,687.71	7,935.87	211.00	213.74	-96.60	-1,545.88	-7,983.78	1,573.25	1,152.02	421.23	3.735			
15,400.00	7,754.99	15,787.71	7,935.87	213.67	216.40	-96.60	-1,545.45	-8,083.78	1,573.25	1,146.72	426.53	3.688			
15,500.00	7,754.99	15,887.71	7,935.87	216.34	219.06	-96.60	-1,545.01	-8,183.78	1,573.25	1,141.42	431.84	3.643			
15,600.00	7,754.99	15,987.71	7,935.86	219.00	221.72	-96.60	-1,544.58	-8,283.78	1,573.25	1,136.11	437.14	3.599			
15,700.00	7,754.99	16,087.71	7,935.86	221.67	224.38	-96.60	-1,544.14	-8,383.78	1,573.25	1,130.81	442.45	3.556			
15,800.00	7,754.99	16,187.71	7,935.86	224.34	227.04	-96.60	-1,543.71	-8,483.78	1,573.26	1,125.50	447.75	3.514			
15,900.00	7,754.99	16,287.71	7,935.86	227.01	229.70	-96.60	-1,543.27	-8,583.78	1,573.26	1,120.20	453.06	3.473			
16,000.00	7,754.99	16,387.71	7,935.86	229.68	232.36	-96.60	-1,542.84	-8,683.78	1,573.26	1,114.89	458.37	3.432			
16,100.00	7,754.99	16,487.71	7,935.85	232.35	235.03	-96.60	-1,542.40	-8,783.77	1,573.26	1,109.58	463.68	3.393			
16,200.00	7,754.99	16,587.71	7,935.85	235.02	237.69	-96.60	-1,541.97	-8,883.77	1,573.26	1,104.27	468.99	3.355			
16,300.00	7,754.99	16,687.71	7,935.85	237.69	240.36	-96.60	-1,541.53	-8,983.77	1,573.26	1,098.96	474.30	3.317			
16,400.00	7,754.99	16,787.71	7,935.85	240.36	243.02	-96.60	-1,541.10	-9,083.77	1,573.26	1,093.65	479.61	3.280			
16,500.00	7,754.99	16,887.71	7,935.85	243.03	245.69	-96.60	-1,540.66	-9,183.77	1,573.27	1,088.34	484.92	3.244			
16,600.00	7,754.99	16,987.71	7,935.85	245.71	248.35	-96.60	-1,540.23	-9,283.77	1,573.27	1,083.03	490.24	3.209			
16,700.00	7,754.99	17,087.71	7,935.84	248.38	251.02	-96.60	-1,539.80	-9,383.77	1,573.27	1,077.72	495.55	3.175			
16,800.00	7,754.99	17,187.71	7,935.84	251.05	253.69	-96.60	-1,539.36	-9,483.77	1,573.27	1,072.40	500.87	3.141			
16,900.00	7,754.99	17,287.71	7,935.84	253.72	256.36	-96.60	-1,538.93	-9,583.77	1,573.27	1,067.09	506.18	3.108			
17,000.00	7,754.99	17,387.71	7,935.84	256.40	259.03	-96.60	-1,538.49	-9,683.77	1,573.27	1,061.77	511.50	3.076			
17,100.00	7,754.99	17,487.71	7,935.84	259.07	261.70	-96.60	-1,538.06	-9,783.77	1,573.28	1,056.46	516.82	3.044			
17,200.00	7,754.99	17,587.71	7,935.83	261.75	264.37	-96.60	-1,537.62	-9,883.76	1,573.28	1,051.14	522.14	3.013			
17,300.00	7,754.99	17,687.71	7,935.83	264.42	267.04	-96.60	-1,537.19	-9,983.76	1,573.28	1,045.82	527.46	2.983			
17,400.00	7,754.99	17,787.71	7,935.83	267.10	269.71	-96.60	-1,536.75	-10,083.76	1,573.28	1,040.50	532.78	2.953			
17,500.00	7,754.99	17,887.71	7,935.83	269.77	272.38	-96.60	-1,536.32	-10,183.76	1,573.28	1,035.18	538.10	2.924			
17,600.00	7,754.99	17,987.71	7,935.83	272.45	275.05	-96.60	-1,535.88	-10,283.76	1,573.28	1,029.86	543.42	2.895			
17,700.00	7,754.99	18,087.71	7,935.83	275.12	277.72	-96.60	-1,535.45	-10,383.76	1,573.28	1,024.54	548.74	2.867			
17,763.56	7,754.99	18,155.14	7,936.01	276.82	279.52	-96.61	-1,535.00	-10,451.18	1,573.15	1,020.98	552.18	2.849			
17,768.61	7,755.00	18,153.00	7,936.00	276.96	279.47	-96.61	-1,535.02	-10,449.04	1,573.16	1,020.83	552.33	2.848 SF			

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	180.00	180.00					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	180.00	180.00	179.73	0.27	669.506		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	180.00	180.00	179.01	0.99	182.593		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	180.00	180.00	178.30	1.70	105.712		
400.00	400.00	401.13	401.11	1.21	1.20	90.56	-1.75	179.67	179.68	177.27	2.41	74.629		
500.00	500.00	502.02	501.85	1.57	1.55	92.24	-7.00	178.68	178.83	175.72	3.11	57.489		
600.00	600.00	602.40	601.84	1.93	1.90	95.06	-15.67	177.05	177.75	173.92	3.83	46.411		
700.00	700.00	702.04	700.72	2.29	2.28	99.00	-27.68	174.79	176.97	172.40	4.57	38.736		
735.48	735.48	737.18	735.48	2.41	2.43	100.66	-32.72	173.84	176.89	172.05	4.84	36.553 CC		
800.00	800.00	800.72	798.17	2.64	2.69	104.01	-42.89	171.93	177.21	171.88	5.33	33.252 ES		
900.00	900.00	898.21	893.87	3.00	3.11	109.95	-61.16	168.49	179.35	173.24	6.11	29.357		
1,000.00	1,000.00	994.31	987.53	3.36	3.57	116.57	-82.28	164.51	184.36	177.46	6.90	26.714		
1,100.00	1,100.00	1,088.85	1,078.91	3.72	4.05	123.53	-106.06	160.04	193.15	185.46	7.69	25.119		
1,200.00	1,200.00	1,181.65	1,167.80	4.08	4.56	130.46	-132.28	155.10	206.38	197.92	8.45	24.411		
1,292.85	1,292.83	1,268.53	1,250.33	4.40	5.06	-128.22	-158.96	150.08	223.62	214.48	9.15	24.446		
1,300.00	1,299.98	1,275.33	1,256.79	4.43	5.10	-127.81	-161.06	149.69	225.13	215.93	9.20	24.462		
1,400.00	1,399.93	1,370.47	1,347.08	4.77	5.67	-122.61	-190.52	144.14	247.29	237.35	9.94	24.873		
1,500.00	1,499.87	1,465.61	1,437.37	5.12	6.24	-118.25	-219.97	138.60	271.14	260.47	10.67	25.408		
1,600.00	1,599.82	1,560.74	1,527.66	5.46	6.83	-114.60	-249.43	133.06	296.28	284.88	11.40	26.000		
1,700.00	1,699.77	1,655.88	1,617.95	5.81	7.42	-111.51	-278.88	127.51	322.40	310.28	12.12	26.608		
1,800.00	1,799.72	1,751.01	1,708.24	6.16	8.01	-108.87	-308.34	121.97	349.29	336.45	12.84	27.209		
1,900.00	1,899.66	1,846.15	1,798.53	6.52	8.61	-106.61	-337.79	116.42	376.78	363.22	13.56	27.789		
2,000.00	1,999.61	1,941.29	1,888.83	6.87	9.21	-104.65	-367.25	110.88	404.75	390.46	14.28	28.343		
2,100.00	2,099.56	2,036.42	1,979.12	7.22	9.81	-102.95	-396.70	105.34	433.10	418.09	15.00	28.866		
2,200.00	2,199.51	2,131.56	2,069.41	7.58	10.41	-101.45	-426.16	99.79	461.77	446.04	15.73	29.358		
2,300.00	2,299.45	2,226.70	2,159.70	7.94	11.02	-100.12	-455.61	94.25	490.69	474.24	16.46	29.820		
2,400.00	2,399.40	2,321.83	2,249.99	8.29	11.62	-98.95	-485.07	88.71	519.84	502.65	17.18	30.253		
2,500.00	2,499.35	2,416.97	2,340.28	8.65	12.23	-97.89	-514.52	83.16	549.16	531.25	17.91	30.657		
2,600.00	2,599.30	2,512.10	2,430.57	9.01	12.83	-96.94	-543.98	77.62	578.64	560.00	18.64	31.037		
2,700.00	2,699.24	2,607.24	2,520.87	9.37	13.44	-96.09	-573.43	72.08	608.25	588.87	19.38	31.392		
2,800.00	2,799.19	2,702.38	2,611.16	9.72	14.05	-95.31	-602.89	66.53	637.98	617.87	20.11	31.725		
2,900.00	2,899.14	2,802.49	2,701.45	10.08	14.69	-94.60	-632.34	60.99	667.80	646.93	20.87	32.002		
3,000.00	2,999.09	2,892.65	2,791.74	10.44	15.27	-93.95	-661.80	55.45	697.71	676.13	21.58	32.330		
3,100.00	3,099.03	2,987.78	2,882.03	10.80	15.88	-93.36	-691.25	49.90	727.69	705.37	22.32	32.606		
3,200.00	3,198.98	3,082.92	2,972.32	11.16	16.49	-92.81	-720.70	44.36	757.74	734.68	23.06	32.866		
3,300.00	3,298.93	3,178.06	3,062.61	11.52	17.10	-92.30	-750.16	38.81	787.85	764.05	23.79	33.111		
3,400.00	3,398.88	3,273.19	3,152.91	11.88	17.71	-91.83	-779.61	33.27	818.01	793.47	24.53	33.342		
3,500.00	3,498.82	3,368.33	3,243.20	12.24	18.33	-91.40	-809.07	27.73	848.21	822.94	25.27	33.560		
3,600.00	3,598.77	3,463.46	3,333.49	12.60	18.94	-90.99	-838.52	22.18	878.46	852.45	26.02	33.767		
3,700.00	3,698.72	3,558.60	3,423.78	12.96	19.55	-90.61	-867.98	16.64	908.75	881.99	26.76	33.963		
3,800.00	3,798.67	3,653.74	3,514.07	13.32	20.16	-90.26	-897.43	11.10	939.07	911.57	27.50	34.149		
3,900.00	3,898.61	3,748.87	3,604.36	13.68	20.78	-89.92	-926.89	5.55	969.42	941.18	28.24	34.325		
4,000.00	3,998.56	3,844.01	3,694.65	14.04	21.39	-89.61	-956.34	0.01	999.80	970.81	28.99	34.492		
4,100.00	4,098.51	3,939.14	3,784.95	14.40	22.00	-89.32	-985.80	-5.53	1,030.20	1,000.47	29.73	34.652		
4,200.00	4,198.46	4,034.28	3,875.24	14.76	22.61	-89.04	-1,015.25	-11.08	1,060.63	1,030.16	30.47	34.804		
4,300.00	4,298.40	4,129.42	3,965.53	15.13	23.23	-88.78	-1,044.71	-16.62	1,091.08	1,059.86	31.22	34.949		
4,400.00	4,398.35	4,224.55	4,055.82	15.49	23.84	-88.53	-1,074.16	-22.16	1,121.55	1,089.58	31.97	35.087		
4,500.00	4,498.30	4,319.69	4,146.11	15.85	24.46	-88.30	-1,103.62	-27.71	1,152.04	1,119.32	32.71	35.219		
4,600.00	4,598.25	4,414.82	4,236.40	16.21	25.07	-88.07	-1,133.07	-33.25	1,182.54	1,149.08	33.46	35.345		
4,700.00	4,698.19	4,509.96	4,326.69	16.57	25.68	-87.86	-1,162.53	-38.80	1,213.06	1,178.85	34.20	35.465		
4,800.00	4,798.14	4,605.10	4,416.99	16.93	26.30	-87.66	-1,191.98	-44.34	1,243.59	1,208.64	34.95	35.581		
4,900.00	4,898.09	4,700.23	4,507.28	17.29	26.91	-87.47	-1,221.44	-49.88	1,274.14	1,238.44	35.70	35.692		

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 5-6-6
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 5-6-6	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	4,998.04	4,804.63	4,597.57	17.66	27.58	-87.29	-1,250.89	-55.43	1,304.70	1,268.21	36.49	35.758		
5,100.00	5,097.98	4,909.50	4,687.86	18.02	28.26	-87.11	-1,280.35	-60.97	1,335.27	1,297.99	37.28	35.820		
5,200.00	5,197.93	4,985.64	4,778.15	18.38	28.75	-86.95	-1,309.80	-66.51	1,365.85	1,327.90	37.94	35.998		
5,300.00	5,297.88	5,080.78	4,868.44	18.74	29.37	-86.79	-1,339.26	-72.06	1,396.44	1,357.75	38.69	36.092		
5,400.00	5,397.83	5,175.91	4,958.73	19.10	29.98	-86.64	-1,368.71	-77.60	1,427.04	1,387.60	39.44	36.182		
5,500.00	5,497.77	5,271.05	5,049.03	19.46	30.60	-86.49	-1,398.17	-83.14	1,457.65	1,417.46	40.19	36.269		
5,600.00	5,597.72	5,366.18	5,139.32	19.83	31.21	-86.35	-1,427.62	-88.69	1,488.26	1,447.32	40.94	36.353		
5,700.00	5,697.67	5,461.32	5,229.61	20.19	31.82	-86.22	-1,457.07	-94.23	1,518.89	1,477.20	41.69	36.434		
5,800.00	5,797.62	5,556.46	5,319.90	20.55	32.44	-86.09	-1,486.53	-99.77	1,549.52	1,507.08	42.44	36.512		
5,900.00	5,897.56	5,651.59	5,410.19	20.91	33.05	-85.96	-1,515.98	-105.32	1,580.16	1,536.97	43.19	36.587		
6,000.00	5,997.51	5,746.73	5,500.48	21.27	33.67	-85.84	-1,545.44	-110.86	1,610.80	1,566.86	43.94	36.659		
6,100.00	6,097.46	5,841.86	5,590.77	21.64	34.28	-85.73	-1,574.89	-116.41	1,641.46	1,596.76	44.69	36.729		
6,200.00	6,197.41	5,937.00	5,681.07	22.00	34.90	-85.62	-1,604.35	-121.95	1,672.11	1,626.67	45.44	36.797		
6,300.00	6,297.35	6,032.14	5,771.36	22.36	35.51	-85.51	-1,633.80	-127.49	1,702.78	1,656.58	46.19	36.862		
6,400.00	6,397.30	6,127.27	5,861.65	22.72	36.13	-85.41	-1,663.26	-133.04	1,733.44	1,686.50	46.94	36.925		
6,500.00	6,497.25	6,222.41	5,951.94	23.08	36.74	-85.31	-1,692.71	-138.58	1,764.12	1,716.42	47.70	36.986		
6,600.00	6,597.20	6,317.54	6,042.23	23.45	37.36	-85.21	-1,722.17	-144.12	1,794.79	1,746.34	48.45	37.046		
6,700.00	6,697.14	6,412.68	6,132.52	23.81	37.97	-85.12	-1,751.62	-149.67	1,825.48	1,776.27	49.20	37.103		
6,800.00	6,797.09	6,507.82	6,222.81	24.17	38.59	-85.03	-1,781.08	-155.21	1,856.16	1,806.21	49.95	37.158		
6,900.00	6,897.04	6,602.95	6,313.11	24.53	39.20	-84.94	-1,810.53	-160.75	1,886.85	1,836.15	50.71	37.212		
7,000.00	6,996.99	6,738.42	6,441.88	24.90	40.06	-84.83	-1,851.86	-168.53	1,917.32	1,865.56	51.76	37.043		
7,062.22	7,059.17	6,915.44	6,612.54	25.12	41.10	-84.73	-1,897.95	-177.21	1,933.36	1,880.38	52.98	36.489		
7,100.00	7,096.94	7,100.00	6,670.88	25.26	42.05	-84.88	-1,910.86	-179.64	1,941.21	1,887.33	53.88	36.030		
7,155.06	7,152.00	7,188.87	6,880.97	25.45	42.38	179.93	-1,948.57	-186.73	1,950.45	1,895.99	54.46	35.814		
7,185.06	7,182.00	7,279.01	6,970.39	25.55	42.73	179.99	-1,959.71	-188.83	1,954.16	1,899.32	54.84	35.637		
7,200.00	7,196.94	7,200.00	6,965.84	25.61	42.43	-90.09	-1,958.89	-188.68	1,955.54	1,900.91	54.63	35.797		
7,250.00	7,246.80	7,475.72	7,166.50	25.79	43.36	-90.02	-1,974.40	-191.60	1,959.01	1,903.52	55.49	35.302		
7,300.00	7,296.17	7,605.43	7,296.17	25.98	43.66	-90.49	-1,976.85	-192.06	1,959.87	1,904.02	55.85	35.091		
7,350.00	7,344.67	7,655.45	7,346.18	26.19	43.76	-90.81	-1,976.85	-192.85	1,960.00	1,903.78	56.23	34.859		
7,400.00	7,391.93	7,707.20	7,397.66	26.40	43.88	-91.14	-1,976.83	-197.91	1,960.21	1,903.58	56.62	34.618		
7,450.00	7,437.60	7,760.13	7,449.63	26.62	44.01	-91.47	-1,976.78	-207.86	1,960.47	1,903.43	57.04	34.370		
7,500.00	7,481.32	7,814.30	7,501.63	26.85	44.15	-91.78	-1,976.72	-222.96	1,960.79	1,903.32	57.47	34.116		
7,550.00	7,522.76	7,869.73	7,553.12	27.09	44.30	-92.09	-1,976.62	-243.42	1,961.16	1,903.23	57.93	33.853		
7,600.00	7,561.61	7,926.46	7,603.52	27.36	44.46	-92.39	-1,976.51	-269.41	1,961.56	1,903.15	58.42	33.578		
7,650.00	7,597.57	7,984.49	7,652.16	27.65	44.63	-92.67	-1,976.37	-301.02	1,961.99	1,903.05	58.94	33.286		
7,700.00	7,630.37	8,043.81	7,698.31	27.96	44.81	-92.93	-1,976.20	-338.24	1,962.42	1,902.91	59.51	32.974		
7,750.00	7,659.76	8,104.37	7,741.20	28.32	45.00	-93.17	-1,976.02	-380.95	1,962.85	1,902.70	60.15	32.633		
7,800.00	7,685.51	8,166.09	7,780.03	28.71	45.21	-93.38	-1,975.80	-428.89	1,963.25	1,902.38	60.86	32.256		
7,850.00	7,707.43	8,228.85	7,814.00	29.14	45.44	-93.56	-1,975.57	-481.63	1,963.60	1,901.93	61.67	31.841		
7,900.00	7,725.35	8,292.53	7,842.36	29.62	45.69	-93.70	-1,975.32	-538.61	1,963.90	1,901.33	62.58	31.384		
7,950.00	7,739.14	8,356.93	7,864.43	30.14	45.97	-93.81	-1,975.05	-599.07	1,964.13	1,900.54	63.59	30.886		
8,000.00	7,748.69	8,421.85	7,879.68	30.71	46.28	-93.88	-1,974.77	-662.13	1,964.28	1,899.54	64.74	30.342		
8,050.00	7,753.92	8,487.06	7,887.72	31.31	46.63	-93.91	-1,974.48	-726.81	1,964.34	1,898.36	65.98	29.771		
8,085.13	7,755.00	8,531.14	7,889.00	31.75	46.88	-93.91	-1,974.29	-770.87	1,964.33	1,897.43	66.90	29.362		
8,100.00	7,755.00	8,546.01	7,889.00	31.94	46.98	-93.91	-1,974.22	-785.74	1,964.33	1,897.05	67.29	29.194		
8,200.00	7,755.00	8,646.01	7,889.00	33.33	47.65	-93.91	-1,973.78	-885.73	1,964.33	1,894.29	70.03	28.049		
8,300.00	7,755.00	8,746.01	7,889.00	34.87	48.45	-93.91	-1,973.34	-985.73	1,964.32	1,891.26	73.06	26.886		
8,400.00	7,755.00	8,846.00	7,889.00	36.54	49.37	-93.91	-1,972.89	-1,085.73	1,964.31	1,887.96	76.35	25.728		
8,500.00	7,755.00	8,946.00	7,889.00	38.33	50.42	-93.91	-1,972.45	-1,185.72	1,964.31	1,884.44	79.86	24.595		
8,600.00	7,755.00	9,046.00	7,888.99	40.22	51.62	-93.91	-1,972.01	-1,285.72	1,964.30	1,880.72	83.58	23.503		
8,700.00	7,755.00	9,146.00	7,888.99	42.19	52.94	-93.91	-1,971.57	-1,385.71	1,964.29	1,876.83	87.46	22.459		
8,800.00	7,755.00	9,245.99	7,888.99	44.24	54.40	-93.91	-1,971.13	-1,485.71	1,964.29	1,872.79	91.50	21.468		

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 5-6-6
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 5-6-6	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	7,755.00	9,345.99	7,888.99	46.36	55.97	-93.91	-1,970.68	-1,585.71	1,964.28	1,868.62	95.67	20.533		
9,000.00	7,755.00	9,445.99	7,888.99	48.54	57.65	-93.91	-1,970.24	-1,685.70	1,964.28	1,864.33	99.95	19.653		
9,100.00	7,755.00	9,545.99	7,888.99	50.76	59.43	-93.91	-1,969.80	-1,785.70	1,964.27	1,859.94	104.33	18.827		
9,200.00	7,755.00	9,645.98	7,888.99	53.03	61.30	-93.91	-1,969.36	-1,885.70	1,964.27	1,855.46	108.80	18.053		
9,300.00	7,755.00	9,745.98	7,888.99	55.33	63.24	-93.91	-1,968.92	-1,985.69	1,964.26	1,850.91	113.35	17.328		
9,400.00	7,755.00	9,845.98	7,888.99	57.67	65.25	-93.91	-1,968.48	-2,085.69	1,964.26	1,846.28	117.97	16.650		
9,500.00	7,755.00	9,945.97	7,888.99	60.03	67.33	-93.91	-1,968.04	-2,185.68	1,964.25	1,841.60	122.65	16.015		
9,600.00	7,755.00	10,045.97	7,888.98	62.43	69.45	-93.91	-1,967.60	-2,285.68	1,964.25	1,836.86	127.39	15.419		
9,700.00	7,755.00	10,145.97	7,888.98	64.84	71.63	-93.91	-1,967.15	-2,385.68	1,964.24	1,832.07	132.17	14.861		
9,800.00	7,755.00	10,245.97	7,888.98	67.28	73.84	-93.91	-1,966.71	-2,485.67	1,964.24	1,827.24	137.00	14.337		
9,900.00	7,755.00	10,345.96	7,888.98	69.74	76.10	-93.91	-1,966.27	-2,585.67	1,964.23	1,822.37	141.87	13.846		
10,000.00	7,755.00	10,445.96	7,888.98	72.21	78.38	-93.91	-1,965.83	-2,685.67	1,964.23	1,817.46	146.77	13.383		
10,100.00	7,755.00	10,545.96	7,888.98	74.70	80.70	-93.91	-1,965.39	-2,785.66	1,964.23	1,812.52	151.70	12.948		
10,200.00	7,755.00	10,645.95	7,888.98	77.20	83.04	-93.91	-1,964.95	-2,885.66	1,964.22	1,807.56	156.67	12.538		
10,300.00	7,755.00	10,745.95	7,888.98	79.71	85.40	-93.91	-1,964.51	-2,985.65	1,964.22	1,802.56	161.65	12.151		
10,400.00	7,755.00	10,845.95	7,888.98	82.24	87.79	-93.91	-1,964.07	-3,085.65	1,964.21	1,797.55	166.67	11.785		
10,500.00	7,755.00	10,945.95	7,888.98	84.77	90.20	-93.91	-1,963.63	-3,185.65	1,964.21	1,792.51	171.70	11.440		
10,600.00	7,755.00	11,045.94	7,888.98	87.32	92.62	-93.91	-1,963.19	-3,285.64	1,964.21	1,787.45	176.75	11.113		
10,700.00	7,755.00	11,145.94	7,888.98	89.87	95.07	-93.91	-1,962.76	-3,385.64	1,964.20	1,782.38	181.83	10.803		
10,800.00	7,755.00	11,245.94	7,888.98	92.43	97.52	-93.91	-1,962.32	-3,485.64	1,964.20	1,777.29	186.92	10.508		
10,900.00	7,755.00	11,345.94	7,888.98	95.00	99.99	-93.91	-1,961.88	-3,585.63	1,964.20	1,772.18	192.02	10.229		
11,000.00	7,755.00	11,445.93	7,888.98	97.57	102.47	-93.91	-1,961.44	-3,685.63	1,964.20	1,767.06	197.14	9.964		
11,100.00	7,755.00	11,545.93	7,888.97	100.15	104.97	-93.91	-1,961.00	-3,785.62	1,964.19	1,761.92	202.27	9.711		
11,200.00	7,755.00	11,645.93	7,888.97	102.74	107.47	-93.91	-1,960.56	-3,885.62	1,964.19	1,756.78	207.41	9.470		
11,300.00	7,755.00	11,745.92	7,888.97	105.33	109.99	-93.91	-1,960.12	-3,985.62	1,964.19	1,751.62	212.57	9.240		
11,400.00	7,755.00	11,845.92	7,888.97	107.92	112.51	-93.91	-1,959.68	-4,085.61	1,964.19	1,746.45	217.74	9.021		
11,500.00	7,755.00	11,945.92	7,888.97	110.52	115.04	-93.91	-1,959.25	-4,185.61	1,964.18	1,741.27	222.91	8.811		
11,600.00	7,755.00	12,045.92	7,888.97	113.13	117.58	-93.91	-1,958.81	-4,285.61	1,964.18	1,736.09	228.10	8.611		
11,700.00	7,755.00	12,145.91	7,888.97	115.74	120.13	-93.91	-1,958.37	-4,385.60	1,964.18	1,730.89	233.29	8.420		
11,800.00	7,755.00	12,245.91	7,888.97	118.35	122.68	-93.91	-1,957.93	-4,485.60	1,964.18	1,725.69	238.49	8.236		
11,900.00	7,755.00	12,345.91	7,888.97	120.96	125.24	-93.91	-1,957.49	-4,585.59	1,964.18	1,720.48	243.70	8.060		
12,000.00	7,755.00	12,445.90	7,888.97	123.58	127.81	-93.91	-1,957.06	-4,685.59	1,964.18	1,715.26	248.91	7.891		
12,100.00	7,755.00	12,545.90	7,888.97	126.20	130.38	-93.91	-1,956.62	-4,785.59	1,964.18	1,710.04	254.14	7.729		
12,200.00	7,755.00	12,645.90	7,888.97	128.83	132.95	-93.91	-1,956.18	-4,885.58	1,964.18	1,704.81	259.36	7.573		
12,300.00	7,755.00	12,745.90	7,888.97	131.46	135.53	-93.91	-1,955.75	-4,985.58	1,964.17	1,699.58	264.60	7.423		
12,400.00	7,755.00	12,845.89	7,888.97	134.09	138.12	-93.91	-1,955.31	-5,085.58	1,964.17	1,694.34	269.84	7.279		
12,500.00	7,755.00	12,945.89	7,888.97	136.72	140.71	-93.91	-1,954.87	-5,185.57	1,964.17	1,689.09	275.08	7.140		
12,600.00	7,755.00	13,045.89	7,888.97	139.35	143.30	-93.91	-1,954.44	-5,285.57	1,964.17	1,683.84	280.33	7.007		
12,700.00	7,755.00	13,145.89	7,888.97	141.99	145.90	-93.91	-1,954.00	-5,385.56	1,964.17	1,678.59	285.58	6.878		
12,800.00	7,755.00	13,245.88	7,888.97	144.63	148.50	-93.91	-1,953.56	-5,485.56	1,964.17	1,673.33	290.84	6.753		
12,844.12	7,755.00	13,310.00	7,888.97	145.79	150.17	-93.91	-1,953.37	-5,529.68	1,964.17	1,670.48	293.69	6.688		
12,900.00	7,755.00	13,345.88	7,888.97	147.27	151.11	-93.91	-1,953.13	-5,585.56	1,964.17	1,668.07	296.11	6.633		
13,000.00	7,754.99	13,445.88	7,888.97	149.91	153.71	-93.91	-1,952.69	-5,685.55	1,964.17	1,662.80	301.37	6.517		
13,100.00	7,754.99	13,545.87	7,888.97	152.55	156.33	-93.91	-1,952.25	-5,785.55	1,964.17	1,657.53	306.64	6.405		
13,200.00	7,754.99	13,645.87	7,888.97	155.20	158.94	-93.91	-1,951.82	-5,885.55	1,964.17	1,652.26	311.91	6.297		
13,300.00	7,754.99	13,745.87	7,888.97	157.84	161.56	-93.91	-1,951.38	-5,985.54	1,964.17	1,646.98	317.19	6.192		
13,400.00	7,754.99	13,845.87	7,888.97	160.49	164.17	-93.91	-1,950.95	-6,085.54	1,964.17	1,641.70	322.47	6.091		
13,500.00	7,754.99	13,945.86	7,888.97	163.14	166.80	-93.91	-1,950.51	-6,185.53	1,964.17	1,636.42	327.75	5.993		
13,600.00	7,754.99	14,045.86	7,888.97	165.79	169.42	-93.91	-1,950.08	-6,285.53	1,964.18	1,631.14	333.04	5.898		
13,700.00	7,754.99	14,145.86	7,888.97	168.44	172.05	-93.91	-1,949.64	-6,385.53	1,964.18	1,625.85	338.33	5.806		
13,800.00	7,754.99	14,245.85	7,888.97	171.10	174.67	-93.91	-1,949.21	-6,485.52	1,964.18	1,620.56	343.62	5.716		
13,900.00	7,754.99	14,345.85	7,888.97	173.75	177.30	-93.91	-1,948.77	-6,585.52	1,964.18	1,615.27	348.91	5.629		

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 5-6-6
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 5-6-6	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	7,754.99	14,445.85	7,888.97	176.41	179.94	-93.91	-1,948.34	-6,685.52	1,964.18	1,609.97	354.21	5.545		
14,100.00	7,754.99	14,545.85	7,888.97	179.06	182.57	-93.91	-1,947.90	-6,785.51	1,964.18	1,604.68	359.51	5.464		
14,200.00	7,754.99	14,645.84	7,888.97	181.72	185.21	-93.91	-1,947.47	-6,885.51	1,964.18	1,599.38	364.81	5.384		
14,300.00	7,754.99	14,745.84	7,888.97	184.38	187.84	-93.91	-1,947.03	-6,985.51	1,964.19	1,594.08	370.11	5.307		
14,400.00	7,754.99	14,845.84	7,888.97	187.04	190.48	-93.91	-1,946.60	-7,085.50	1,964.19	1,588.78	375.41	5.232		
14,500.00	7,754.99	14,945.83	7,888.97	189.70	193.12	-93.91	-1,946.17	-7,185.50	1,964.19	1,583.47	380.72	5.159		
14,600.00	7,754.99	15,045.83	7,888.97	192.36	195.77	-93.91	-1,945.73	-7,285.49	1,964.19	1,578.17	386.03	5.088		
14,700.00	7,754.99	15,145.83	7,888.97	195.02	198.41	-93.91	-1,945.30	-7,385.49	1,964.20	1,572.86	391.34	5.019		
14,800.00	7,754.99	15,245.83	7,888.98	197.68	201.05	-93.91	-1,944.86	-7,485.49	1,964.20	1,567.55	396.65	4.952		
14,900.00	7,754.99	15,345.82	7,888.98	200.34	203.70	-93.91	-1,944.43	-7,585.48	1,964.20	1,562.24	401.96	4.887		
15,000.00	7,754.99	15,445.82	7,888.98	203.01	206.35	-93.91	-1,944.00	-7,685.48	1,964.20	1,556.93	407.28	4.823		
15,100.00	7,754.99	15,545.82	7,888.98	205.67	209.00	-93.91	-1,943.56	-7,785.48	1,964.21	1,551.62	412.59	4.761		
15,200.00	7,754.99	15,645.82	7,888.98	208.34	211.65	-93.91	-1,943.13	-7,885.47	1,964.21	1,546.30	417.91	4.700		
15,300.00	7,754.99	15,745.81	7,888.98	211.00	214.30	-93.91	-1,942.70	-7,985.47	1,964.21	1,540.99	423.23	4.641		
15,400.00	7,754.99	15,845.81	7,888.98	213.67	216.95	-93.91	-1,942.27	-8,085.46	1,964.22	1,535.67	428.55	4.583		
15,500.00	7,754.99	15,945.81	7,888.98	216.34	219.60	-93.91	-1,941.83	-8,185.46	1,964.22	1,530.35	433.87	4.527		
15,600.00	7,754.99	16,045.80	7,888.98	219.00	222.26	-93.91	-1,941.40	-8,285.46	1,964.23	1,525.03	439.19	4.472		
15,700.00	7,754.99	16,145.80	7,888.98	221.67	224.91	-93.91	-1,940.97	-8,385.45	1,964.23	1,519.71	444.52	4.419		
15,800.00	7,754.99	16,245.80	7,888.98	224.34	227.57	-93.91	-1,940.54	-8,485.45	1,964.23	1,514.39	449.84	4.367		
15,900.00	7,754.99	16,345.80	7,888.98	227.01	230.22	-93.91	-1,940.10	-8,585.45	1,964.24	1,509.07	455.17	4.315		
16,000.00	7,754.99	16,445.79	7,888.98	229.68	232.88	-93.91	-1,939.67	-8,685.44	1,964.24	1,503.75	460.49	4.266		
16,100.00	7,754.99	16,545.79	7,888.98	232.35	235.54	-93.91	-1,939.24	-8,785.44	1,964.25	1,498.42	465.82	4.217		
16,200.00	7,754.99	16,645.79	7,888.98	235.02	238.20	-93.91	-1,938.81	-8,885.43	1,964.25	1,493.10	471.15	4.169		
16,300.00	7,754.99	16,745.78	7,888.98	237.69	240.86	-93.91	-1,938.38	-8,985.43	1,964.26	1,487.77	476.48	4.122		
16,400.00	7,754.99	16,845.78	7,888.99	240.36	243.52	-93.91	-1,937.95	-9,085.43	1,964.26	1,482.45	481.81	4.077		
16,500.00	7,754.99	16,945.78	7,888.99	243.03	246.18	-93.91	-1,937.52	-9,185.42	1,964.27	1,477.12	487.15	4.032		
16,600.00	7,754.99	17,045.78	7,888.99	245.71	248.84	-93.91	-1,937.08	-9,285.42	1,964.27	1,471.79	492.48	3.989		
16,700.00	7,754.99	17,145.77	7,888.99	248.38	251.51	-93.91	-1,936.65	-9,385.42	1,964.28	1,466.46	497.81	3.946		
16,800.00	7,754.99	17,245.77	7,888.99	251.05	254.17	-93.91	-1,936.22	-9,485.41	1,964.28	1,461.14	503.15	3.904		
16,900.00	7,754.99	17,345.77	7,888.99	253.72	256.83	-93.91	-1,935.79	-9,585.41	1,964.29	1,455.81	508.48	3.863		
17,000.00	7,754.99	17,445.77	7,888.99	256.40	259.50	-93.91	-1,935.36	-9,685.40	1,964.29	1,450.47	513.82	3.823		
17,100.00	7,754.99	17,545.76	7,888.99	259.07	262.17	-93.91	-1,934.93	-9,785.40	1,964.30	1,445.14	519.16	3.784		
17,200.00	7,754.99	17,645.76	7,888.99	261.75	264.83	-93.91	-1,934.50	-9,885.40	1,964.31	1,439.81	524.49	3.745		
17,300.00	7,754.99	17,745.76	7,888.99	264.42	267.50	-93.91	-1,934.07	-9,985.39	1,964.31	1,434.48	529.83	3.707		
17,400.00	7,754.99	17,845.75	7,889.00	267.10	270.16	-93.91	-1,933.64	-10,085.39	1,964.32	1,429.15	535.17	3.670		
17,500.00	7,754.99	17,945.75	7,889.00	269.77	272.83	-93.91	-1,933.21	-10,185.39	1,964.33	1,423.81	540.51	3.634		
17,600.00	7,754.99	18,045.75	7,889.00	272.45	275.50	-93.91	-1,932.78	-10,285.38	1,964.33	1,418.48	545.85	3.599		
17,700.00	7,754.99	18,145.75	7,889.00	275.12	278.17	-93.91	-1,932.35	-10,385.38	1,964.34	1,413.15	551.19	3.564		
17,701.08	7,754.99	18,146.83	7,889.00	275.15	278.20	-93.91	-1,932.35	-10,386.46	1,964.34	1,413.09	551.25	3.563		
17,768.61	7,755.00	18,212.39	7,889.00	276.96	279.95	-93.91	-1,932.07	-10,452.02	1,964.35	1,409.52	554.82	3.540 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	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	196.87	196.87					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	196.87	196.87	196.61	0.27	732.272		
200.00	200.00	201.09	201.07	0.49	0.49	90.51	-1.76	196.58	196.59	195.62	0.98	200.885		
300.00	300.00	301.93	301.76	0.85	0.85	92.05	-7.02	195.72	195.85	194.15	1.70	115.280		
400.00	400.00	402.27	401.71	1.21	1.23	94.63	-15.72	194.28	194.92	192.49	2.44	79.973		
500.00	500.00	501.87	500.55	1.57	1.63	98.22	-27.76	192.29	194.29	191.09	3.20	60.793		
527.37	527.37	528.98	527.37	1.67	1.74	99.37	-31.63	191.65	194.25	190.84	3.41	56.962	CC	
600.00	600.00	600.50	597.96	1.93	2.05	102.77	-43.03	189.77	194.60	190.62	3.98	48.936	ES	
700.00	700.00	697.95	693.62	2.29	2.50	108.19	-61.35	186.75	196.67	191.89	4.78	41.151		
800.00	800.00	794.02	787.25	2.64	2.98	114.25	-82.54	183.25	201.39	195.79	5.60	35.988		
900.00	900.00	888.52	878.60	3.00	3.48	120.68	-106.39	179.32	209.60	203.19	6.41	32.688		
1,000.00	1,000.00	981.29	967.46	3.36	4.01	127.18	-132.69	174.98	222.00	214.79	7.21	30.793		
1,100.00	1,100.00	1,072.19	1,053.64	3.72	4.57	133.43	-161.20	170.27	239.01	231.04	7.97	29.973		
1,200.00	1,200.00	1,161.10	1,137.01	4.08	5.15	139.24	-191.68	165.24	260.80	252.10	8.70	29.984		
1,292.85	1,292.83	1,244.71	1,214.60	4.40	5.72	-120.41	-222.39	160.17	285.75	276.40	9.36	30.543		
1,300.00	1,299.98	1,251.36	1,220.76	4.43	5.77	-120.08	-224.85	159.77	287.83	278.42	9.41	30.587		
1,400.00	1,399.93	1,344.29	1,306.89	4.77	6.42	-115.89	-259.30	154.08	317.74	307.60	10.13	31.362		
1,500.00	1,499.87	1,437.22	1,393.01	5.12	7.07	-112.41	-293.75	148.40	348.99	338.14	10.85	32.173		
1,600.00	1,599.82	1,530.15	1,479.13	5.46	7.74	-109.48	-328.20	142.71	381.26	369.70	11.56	32.974		
1,700.00	1,699.77	1,623.08	1,565.25	5.81	8.40	-107.00	-362.65	137.03	414.31	402.03	12.28	33.744		
1,800.00	1,799.72	1,716.01	1,651.38	6.16	9.07	-104.88	-397.10	131.34	447.97	434.97	13.00	34.472		
1,900.00	1,899.66	1,808.94	1,737.50	6.52	9.74	-103.06	-431.54	125.66	482.11	468.39	13.71	35.152		
2,000.00	1,999.61	1,901.87	1,823.62	6.87	10.41	-101.47	-465.99	119.97	516.63	502.19	14.44	35.786		
2,100.00	2,099.56	2,005.20	1,909.74	7.22	11.16	-100.07	-500.44	114.29	551.46	536.25	15.21	36.251		
2,200.00	2,199.51	2,087.73	1,995.87	7.58	11.76	-98.84	-534.89	108.60	586.55	570.66	15.89	36.919		
2,300.00	2,299.45	2,180.66	2,081.99	7.94	12.44	-97.75	-569.34	102.92	621.85	605.24	16.62	37.424		
2,400.00	2,399.40	2,273.59	2,168.11	8.29	13.11	-96.78	-603.78	97.23	657.34	639.99	17.35	37.892		
2,500.00	2,499.35	2,366.52	2,254.23	8.65	13.79	-95.90	-638.23	91.55	692.97	674.89	18.08	38.327		
2,600.00	2,599.30	2,459.45	2,340.36	9.01	14.47	-95.11	-672.68	85.86	728.73	709.92	18.82	38.731		
2,700.00	2,699.24	2,552.39	2,426.48	9.37	15.14	-94.39	-707.13	80.18	764.61	745.05	19.55	39.107		
2,800.00	2,799.19	2,645.32	2,512.60	9.72	15.82	-93.74	-741.58	74.49	800.58	780.29	20.29	39.458		
2,900.00	2,899.14	2,738.25	2,598.73	10.08	16.50	-93.14	-776.03	68.81	836.63	815.60	21.03	39.785		
3,000.00	2,999.09	2,831.18	2,684.85	10.44	17.18	-92.59	-810.47	63.12	872.76	850.99	21.77	40.091		
3,100.00	3,099.03	2,924.11	2,770.97	10.80	17.86	-92.08	-844.92	57.44	908.95	886.44	22.51	40.378		
3,200.00	3,198.98	3,017.04	2,857.09	11.16	18.54	-91.61	-879.37	51.75	945.20	921.94	23.25	40.647		
3,300.00	3,298.93	3,109.97	2,943.22	11.52	19.22	-91.18	-913.82	46.07	981.50	957.50	24.00	40.900		
3,400.00	3,398.88	3,202.90	3,029.34	11.88	19.90	-90.78	-948.27	40.38	1,017.84	993.10	24.74	41.138		
3,500.00	3,498.82	3,304.17	3,115.46	12.24	20.64	-90.41	-982.71	34.69	1,054.23	1,028.70	25.53	41.299		
3,600.00	3,598.77	3,388.76	3,201.58	12.60	21.26	-90.06	-1,017.16	29.01	1,090.65	1,064.42	26.23	41.573		
3,700.00	3,698.72	3,481.69	3,287.71	12.96	21.94	-89.73	-1,051.61	23.32	1,127.11	1,100.12	26.98	41.773		
3,800.00	3,798.67	3,574.62	3,373.83	13.32	22.63	-89.42	-1,086.06	17.64	1,163.59	1,135.86	27.73	41.962		
3,900.00	3,898.61	3,667.55	3,459.95	13.68	23.31	-89.13	-1,120.51	11.95	1,200.10	1,171.63	28.48	42.141		
4,000.00	3,998.56	3,760.48	3,546.07	14.04	23.99	-88.86	-1,154.96	6.27	1,236.64	1,207.41	29.23	42.311		
4,100.00	4,098.51	3,853.41	3,632.20	14.40	24.67	-88.61	-1,189.40	0.58	1,273.20	1,243.23	29.98	42.472		
4,200.00	4,198.46	3,946.35	3,718.32	14.76	25.35	-88.37	-1,223.85	-5.10	1,309.78	1,279.06	30.73	42.625		
4,300.00	4,298.40	4,039.28	3,804.44	15.13	26.03	-88.14	-1,258.30	-10.79	1,346.38	1,314.91	31.48	42.771		
4,400.00	4,398.35	4,132.21	3,890.56	15.49	26.71	-87.92	-1,292.75	-16.47	1,383.00	1,350.77	32.23	42.910		
4,500.00	4,498.30	4,225.14	3,976.69	15.85	27.40	-87.72	-1,327.20	-22.16	1,419.64	1,386.65	32.98	43.042		
4,600.00	4,598.25	4,318.07	4,062.81	16.21	28.08	-87.52	-1,361.65	-27.84	1,456.29	1,422.55	33.73	43.168		
4,700.00	4,698.19	4,411.00	4,148.93	16.57	28.76	-87.34	-1,396.09	-33.53	1,492.95	1,458.46	34.49	43.289		
4,800.00	4,798.14	4,503.93	4,235.05	16.93	29.44	-87.16	-1,430.54	-39.21	1,529.62	1,494.38	35.24	43.404		
4,900.00	4,898.09	4,603.14	4,321.18	17.29	30.17	-86.99	-1,464.99	-44.90	1,566.31	1,530.29	36.02	43.480		

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 5-6-6
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 5-6-6	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	4,998.04	4,689.79	4,407.30	17.66	30.81	-86.83	-1,499.44	-50.58	1,603.01	1,566.26	36.75	43.620		
5,100.00	5,097.98	4,782.72	4,493.42	18.02	31.49	-86.68	-1,533.89	-56.27	1,639.72	1,602.22	37.50	43.721		
5,200.00	5,197.93	4,875.65	4,579.55	18.38	32.17	-86.53	-1,568.33	-61.95	1,676.44	1,638.18	38.26	43.818		
5,300.00	5,297.88	4,968.58	4,665.67	18.74	32.85	-86.39	-1,602.78	-67.64	1,713.17	1,674.15	39.01	43.912		
5,400.00	5,397.83	5,061.51	4,751.79	19.10	33.54	-86.26	-1,637.23	-73.32	1,749.90	1,710.13	39.77	44.001		
5,500.00	5,497.77	5,154.44	4,837.91	19.46	34.22	-86.13	-1,671.68	-79.01	1,786.65	1,746.12	40.53	44.087		
5,600.00	5,597.72	5,247.37	4,924.04	19.83	34.90	-86.00	-1,706.13	-84.69	1,823.40	1,782.12	41.28	44.169		
5,700.00	5,697.67	5,340.30	5,010.16	20.19	35.58	-85.88	-1,740.58	-90.38	1,860.16	1,818.12	42.04	44.249		
5,800.00	5,797.62	5,433.24	5,096.28	20.55	36.26	-85.77	-1,775.02	-96.06	1,896.93	1,854.13	42.80	44.325		
5,900.00	5,897.56	5,526.17	5,182.40	20.91	36.95	-85.66	-1,809.47	-101.75	1,933.70	1,890.15	43.55	44.399		
6,000.00	5,997.51	5,619.10	5,268.53	21.27	37.63	-85.55	-1,843.92	-107.43	1,970.48	1,926.17	44.31	44.469		
6,100.00	6,097.46	5,712.03	5,354.65	21.64	38.31	-85.45	-1,878.37	-113.12	2,007.26	1,962.19	45.07	44.538		
6,200.00	6,197.41	5,804.96	5,440.77	22.00	39.00	-85.35	-1,912.82	-118.80	2,044.05	1,998.22	45.83	44.604		
6,300.00	6,297.35	5,902.11	5,526.89	22.36	39.71	-85.26	-1,947.27	-124.49	2,080.85	2,034.24	46.60	44.649		
6,400.00	6,397.30	6,009.18	5,613.02	22.72	40.50	-85.17	-1,981.71	-130.17	2,117.64	2,070.22	47.43	44.649		
6,500.00	6,497.25	6,083.75	5,699.14	23.08	41.04	-85.08	-2,016.16	-135.86	2,154.45	2,106.34	48.10	44.788		
6,600.00	6,597.20	6,176.68	5,785.26	23.45	41.73	-84.99	-2,050.61	-141.54	2,191.26	2,142.39	48.86	44.845		
6,700.00	6,697.14	6,269.61	5,871.38	23.81	42.41	-84.91	-2,085.06	-147.23	2,228.07	2,178.44	49.62	44.900		
6,800.00	6,797.09	6,362.54	5,957.51	24.17	43.09	-84.83	-2,119.51	-152.91	2,264.88	2,214.50	50.38	44.953		
6,900.00	6,897.04	6,455.47	6,043.63	24.53	43.77	-84.75	-2,153.95	-158.60	2,301.70	2,250.56	51.14	45.005		
7,000.00	6,996.99	6,789.26	6,358.33	24.90	46.01	-84.56	-2,263.21	-176.63	2,335.52	2,281.99	53.53	43.633		
7,062.22	7,059.17	7,104.09	6,665.01	25.12	47.63	-84.53	-2,332.71	-188.10	2,349.10	2,294.01	55.09	42.642		
7,100.00	7,096.94	7,301.49	6,860.54	25.26	48.39	-84.65	-2,359.19	-192.47	2,354.09	2,298.37	55.72	42.249		
7,155.06	7,152.00	7,593.46	7,152.00	25.45	49.15	-179.86	-2,373.85	-194.89	2,356.81	2,300.68	56.13	41.988		
7,185.06	7,182.00	7,623.46	7,182.00	25.55	49.20	-179.86	-2,373.85	-194.89	2,356.81	2,300.50	56.31	41.855		
7,200.00	7,196.94	7,638.51	7,197.06	25.61	49.22	-90.11	-2,373.85	-195.08	2,356.81	2,300.41	56.40	41.786		
7,250.00	7,246.80	7,688.91	7,247.31	25.79	49.32	-90.11	-2,373.84	-198.62	2,356.81	2,300.08	56.73	41.544		
7,300.00	7,296.17	7,739.30	7,297.06	25.98	49.42	-90.11	-2,373.80	-206.56	2,356.81	2,299.73	57.08	41.290		
7,350.00	7,344.67	7,789.69	7,345.91	26.19	49.54	-90.11	-2,373.75	-218.83	2,356.81	2,299.36	57.45	41.026		
7,400.00	7,391.93	7,840.06	7,393.49	26.40	49.66	-90.10	-2,373.68	-235.34	2,356.81	2,298.98	57.83	40.752		
7,450.00	7,437.60	7,890.43	7,439.42	26.62	49.78	-90.10	-2,373.59	-255.96	2,356.81	2,298.57	58.24	40.466		
7,500.00	7,481.32	7,940.77	7,483.35	26.85	49.91	-90.09	-2,373.48	-280.53	2,356.81	2,298.13	58.68	40.166		
7,550.00	7,522.76	7,991.10	7,524.94	27.09	50.04	-90.09	-2,373.36	-308.84	2,356.81	2,297.67	59.14	39.849		
7,600.00	7,561.61	8,041.41	7,563.87	27.36	50.18	-90.08	-2,373.22	-340.68	2,356.81	2,297.16	59.65	39.511		
7,650.00	7,597.57	8,091.70	7,599.84	27.65	50.32	-90.08	-2,373.07	-375.79	2,356.81	2,296.60	60.21	39.146		
7,700.00	7,630.37	8,141.95	7,632.58	27.96	50.47	-90.07	-2,372.90	-413.90	2,356.81	2,295.99	60.82	38.749		
7,750.00	7,659.76	8,192.19	7,661.84	28.32	50.63	-90.06	-2,372.73	-454.71	2,356.81	2,295.30	61.51	38.317		
7,800.00	7,685.51	8,242.39	7,687.41	28.71	50.80	-90.05	-2,372.54	-497.89	2,356.81	2,294.54	62.27	37.847		
7,850.00	7,707.43	8,292.56	7,709.08	29.14	50.97	-90.04	-2,372.34	-543.12	2,356.81	2,293.69	63.12	37.338		
7,900.00	7,725.35	8,342.70	7,726.70	29.62	51.16	-90.03	-2,372.14	-590.05	2,356.81	2,292.76	64.06	36.791		
7,950.00	7,739.14	8,392.80	7,740.15	30.14	51.36	-90.03	-2,371.93	-638.30	2,356.82	2,291.73	65.08	36.212		
8,000.00	7,748.69	8,442.88	7,749.33	30.71	51.58	-90.02	-2,371.72	-687.50	2,356.82	2,290.62	66.19	35.605		
8,050.00	7,753.92	8,492.92	7,754.18	31.31	51.81	-90.01	-2,371.50	-737.29	2,356.82	2,289.44	67.38	34.980		
8,085.13	7,755.00	8,528.05	7,755.00	31.75	51.99	-90.00	-2,371.35	-772.41	2,356.82	2,288.57	68.25	34.534		
8,100.00	7,755.00	8,542.92	7,755.00	31.94	52.07	-90.00	-2,371.28	-787.28	2,356.82	2,288.19	68.63	34.341		
8,200.00	7,755.00	8,642.92	7,755.00	33.33	52.63	-90.00	-2,370.85	-887.28	2,356.82	2,285.46	71.36	33.025		
8,300.00	7,755.00	8,742.92	7,755.00	34.87	53.29	-90.00	-2,370.41	-987.28	2,356.82	2,282.44	74.38	31.686		
8,400.00	7,755.00	8,842.92	7,755.00	36.54	54.06	-90.00	-2,369.98	-1,087.28	2,356.83	2,279.17	77.65	30.350		
8,500.00	7,755.00	8,942.92	7,755.00	38.33	54.92	-90.00	-2,369.55	-1,187.28	2,356.83	2,275.68	81.15	29.042		
8,600.00	7,755.00	9,042.92	7,755.00	40.22	55.91	-90.00	-2,369.11	-1,287.28	2,356.83	2,271.98	84.85	27.777		
8,700.00	7,755.00	9,142.92	7,755.00	42.19	57.02	-90.00	-2,368.68	-1,387.27	2,356.83	2,268.11	88.72	26.565		
8,800.00	7,755.00	9,242.92	7,755.00	44.24	58.24	-90.00	-2,368.25	-1,487.27	2,356.84	2,264.10	92.74	25.414		

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 5-6-6
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 5-6-6	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	7,755.00	9,342.92	7,755.00	46.36	59.59	-90.00	-2,367.81	-1,587.27	2,356.84	2,259.95	96.89	24.324		
9,000.00	7,755.00	9,442.92	7,755.00	48.54	61.05	-90.00	-2,367.38	-1,687.27	2,356.84	2,255.68	101.16	23.298		
9,100.00	7,755.00	9,542.92	7,755.00	50.76	62.62	-90.00	-2,366.94	-1,787.27	2,356.84	2,251.31	105.53	22.333		
9,200.00	7,755.00	9,642.92	7,755.00	53.03	64.29	-90.00	-2,366.51	-1,887.27	2,356.85	2,246.85	109.99	21.428		
9,300.00	7,755.00	9,742.92	7,755.00	55.33	66.05	-90.00	-2,366.08	-1,987.27	2,356.85	2,242.32	114.53	20.578		
9,400.00	7,755.00	9,842.92	7,755.00	57.67	67.89	-90.00	-2,365.64	-2,087.27	2,356.85	2,237.71	119.14	19.782		
9,500.00	7,755.00	9,942.92	7,755.00	60.03	69.81	-90.00	-2,365.21	-2,187.27	2,356.85	2,233.04	123.81	19.036		
9,600.00	7,755.00	10,042.92	7,755.00	62.43	71.80	-90.00	-2,364.77	-2,287.27	2,356.85	2,228.32	128.54	18.336		
9,700.00	7,755.00	10,142.92	7,755.00	64.84	73.85	-90.00	-2,364.34	-2,387.27	2,356.86	2,223.54	133.32	17.679		
9,800.00	7,755.00	10,242.92	7,755.00	67.28	75.95	-90.00	-2,363.91	-2,487.26	2,356.86	2,218.72	138.14	17.062		
9,900.00	7,755.00	10,342.92	7,755.00	69.74	78.10	-90.00	-2,363.47	-2,587.26	2,356.86	2,213.86	143.00	16.482		
10,000.00	7,755.00	10,442.92	7,755.00	72.21	80.29	-90.00	-2,363.04	-2,687.26	2,356.86	2,208.97	147.90	15.936		
10,100.00	7,755.00	10,542.92	7,755.00	74.70	82.51	-90.00	-2,362.61	-2,787.26	2,356.87	2,204.04	152.83	15.422		
10,200.00	7,755.00	10,642.92	7,755.00	77.20	84.78	-90.00	-2,362.17	-2,887.26	2,356.87	2,199.08	157.79	14.937		
10,300.00	7,755.00	10,742.92	7,755.00	79.71	87.07	-90.00	-2,361.74	-2,987.26	2,356.87	2,194.10	162.77	14.479		
10,400.00	7,755.00	10,842.92	7,755.00	82.24	89.39	-90.00	-2,361.30	-3,087.26	2,356.87	2,189.09	167.78	14.047		
10,500.00	7,755.00	10,942.92	7,755.00	84.77	91.74	-90.00	-2,360.87	-3,187.26	2,356.88	2,184.06	172.82	13.638		
10,600.00	7,755.00	11,042.92	7,755.00	87.32	94.10	-90.00	-2,360.44	-3,287.26	2,356.88	2,179.01	177.87	13.250		
10,700.00	7,755.00	11,142.92	7,755.00	89.87	96.49	-90.00	-2,360.00	-3,387.26	2,356.88	2,173.94	182.94	12.883		
10,800.00	7,755.00	11,242.92	7,754.99	92.43	98.90	-90.00	-2,359.57	-3,487.26	2,356.88	2,168.85	188.03	12.534		
10,900.00	7,755.00	11,342.92	7,754.99	95.00	101.32	-90.00	-2,359.14	-3,587.25	2,356.89	2,163.75	193.14	12.203		
11,000.00	7,755.00	11,442.92	7,754.99	97.57	103.76	-90.00	-2,358.70	-3,687.25	2,356.89	2,158.63	198.26	11.888		
11,100.00	7,755.00	11,542.92	7,754.99	100.15	106.22	-90.00	-2,358.27	-3,787.25	2,356.89	2,153.50	203.39	11.588		
11,200.00	7,755.00	11,642.92	7,754.99	102.74	108.68	-90.00	-2,357.83	-3,887.25	2,356.89	2,148.35	208.54	11.302		
11,300.00	7,755.00	11,742.92	7,754.99	105.33	111.16	-90.00	-2,357.40	-3,987.25	2,356.90	2,143.20	213.70	11.029		
11,400.00	7,755.00	11,842.92	7,754.99	107.92	113.65	-90.00	-2,356.97	-4,087.25	2,356.90	2,138.03	218.87	10.769		
11,500.00	7,755.00	11,942.92	7,754.99	110.52	116.15	-90.00	-2,356.53	-4,187.25	2,356.90	2,132.85	224.05	10.520		
11,600.00	7,755.00	12,042.92	7,754.99	113.13	118.66	-90.00	-2,356.10	-4,287.25	2,356.90	2,127.67	229.23	10.282		
11,700.00	7,755.00	12,142.92	7,754.99	115.74	121.18	-90.00	-2,355.66	-4,387.25	2,356.90	2,122.47	234.43	10.054		
11,800.00	7,755.00	12,242.92	7,754.99	118.35	123.71	-90.00	-2,355.23	-4,487.25	2,356.91	2,117.27	239.64	9.835		
11,900.00	7,755.00	12,342.92	7,754.99	120.96	126.25	-90.00	-2,354.80	-4,587.24	2,356.91	2,112.06	244.85	9.626		
12,000.00	7,755.00	12,442.92	7,754.99	123.58	128.79	-90.00	-2,354.36	-4,687.24	2,356.91	2,106.84	250.07	9.425		
12,100.00	7,755.00	12,542.92	7,754.99	126.20	131.34	-90.00	-2,353.93	-4,787.24	2,356.91	2,101.62	255.30	9.232		
12,200.00	7,755.00	12,642.92	7,754.99	128.83	133.89	-90.00	-2,353.50	-4,887.24	2,356.92	2,096.39	260.53	9.047		
12,300.00	7,755.00	12,742.92	7,754.99	131.46	136.45	-90.00	-2,353.06	-4,987.24	2,356.92	2,091.15	265.77	8.868		
12,400.00	7,755.00	12,842.92	7,754.99	134.09	139.02	-90.00	-2,352.63	-5,087.24	2,356.92	2,085.91	271.01	8.697		
12,500.00	7,755.00	12,942.92	7,754.99	136.72	141.59	-90.00	-2,352.19	-5,187.24	2,356.92	2,080.66	276.26	8.531		
12,600.00	7,755.00	13,042.92	7,754.99	139.35	144.17	-90.00	-2,351.76	-5,287.24	2,356.93	2,075.41	281.52	8.372		
12,700.00	7,755.00	13,142.92	7,754.99	141.99	146.75	-90.00	-2,351.33	-5,387.24	2,356.93	2,070.15	286.78	8.219		
12,800.00	7,755.00	13,242.92	7,754.99	144.63	149.33	-90.00	-2,350.89	-5,487.24	2,356.93	2,064.89	292.04	8.070		
12,900.00	7,755.00	13,342.92	7,754.99	147.27	151.92	-90.00	-2,350.46	-5,587.24	2,356.93	2,059.62	297.31	7.927		
13,000.00	7,754.99	13,442.92	7,754.99	149.91	154.51	-90.00	-2,350.02	-5,687.23	2,356.94	2,054.35	302.58	7.789		
13,100.00	7,754.99	13,542.92	7,754.99	152.55	157.11	-90.00	-2,349.59	-5,787.23	2,356.94	2,049.08	307.86	7.656		
13,200.00	7,754.99	13,642.92	7,754.99	155.20	159.71	-90.00	-2,349.16	-5,887.23	2,356.94	2,043.80	313.14	7.527		
13,300.00	7,754.99	13,742.92	7,754.99	157.84	162.31	-90.00	-2,348.72	-5,987.23	2,356.94	2,038.52	318.42	7.402		
13,400.00	7,754.99	13,842.92	7,754.99	160.49	164.92	-90.00	-2,348.29	-6,087.23	2,356.95	2,033.23	323.71	7.281		
13,500.00	7,754.99	13,942.92	7,754.99	163.14	167.53	-90.00	-2,347.86	-6,187.23	2,356.95	2,027.95	329.00	7.164		
13,600.00	7,754.99	14,042.92	7,754.99	165.79	170.14	-90.00	-2,347.42	-6,287.23	2,356.95	2,022.66	334.29	7.051		
13,700.00	7,754.99	14,142.92	7,754.99	168.44	172.76	-90.00	-2,346.99	-6,387.23	2,356.95	2,017.36	339.59	6.941		
13,800.00	7,754.99	14,242.92	7,754.99	171.10	175.37	-90.00	-2,346.55	-6,487.23	2,356.96	2,012.07	344.89	6.834		
13,900.00	7,754.99	14,342.92	7,754.99	173.75	177.99	-90.00	-2,346.12	-6,587.23	2,356.96	2,006.77	350.19	6.731		
14,000.00	7,754.99	14,442.92	7,754.99	176.41	180.62	-90.00	-2,345.69	-6,687.23	2,356.96	2,001.47	355.49	6.630		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,754.99	14,542.92	7,754.99	179.06	183.24	-90.00	-2,345.25	-6,787.22	2,356.96	1,996.16	360.80	6.533		
14,200.00	7,754.99	14,642.92	7,754.99	181.72	185.87	-90.00	-2,344.82	-6,887.22	2,356.96	1,990.86	366.11	6.438		
14,300.00	7,754.99	14,742.92	7,754.99	184.38	188.49	-90.00	-2,344.38	-6,987.22	2,356.97	1,985.55	371.42	6.346		
14,400.00	7,754.99	14,842.92	7,754.99	187.04	191.12	-90.00	-2,343.95	-7,087.22	2,356.97	1,980.24	376.73	6.256		
14,500.00	7,754.99	14,942.92	7,754.99	189.70	193.76	-90.00	-2,343.52	-7,187.22	2,356.97	1,974.93	382.04	6.169		
14,600.00	7,754.99	15,042.92	7,754.99	192.36	196.39	-90.00	-2,343.08	-7,287.22	2,356.97	1,969.61	387.36	6.085		
14,700.00	7,754.99	15,142.92	7,754.99	195.02	199.03	-90.00	-2,342.65	-7,387.22	2,356.98	1,964.30	392.68	6.002		
14,800.00	7,754.99	15,242.92	7,754.99	197.68	201.66	-90.00	-2,342.22	-7,487.22	2,356.98	1,958.98	398.00	5.922		
14,900.00	7,754.99	15,342.92	7,754.99	200.34	204.30	-90.00	-2,341.78	-7,587.22	2,356.98	1,953.66	403.32	5.844		
15,000.00	7,754.99	15,442.92	7,754.99	203.01	206.94	-90.00	-2,341.35	-7,687.22	2,356.98	1,948.34	408.64	5.768		
15,100.00	7,754.99	15,542.92	7,754.99	205.67	209.58	-90.00	-2,340.91	-7,787.21	2,356.99	1,943.02	413.97	5.694		
15,200.00	7,754.99	15,642.92	7,754.99	208.34	212.23	-90.00	-2,340.48	-7,887.21	2,356.99	1,937.70	419.29	5.621		
15,300.00	7,754.99	15,742.92	7,754.99	211.00	214.87	-90.00	-2,340.05	-7,987.21	2,356.99	1,932.37	424.62	5.551		
15,400.00	7,754.99	15,842.92	7,754.99	213.67	217.52	-90.00	-2,339.61	-8,087.21	2,356.99	1,927.04	429.95	5.482		
15,500.00	7,754.99	15,942.92	7,754.99	216.34	220.16	-90.00	-2,339.18	-8,187.21	2,357.00	1,921.72	435.28	5.415		
15,600.00	7,754.99	16,042.92	7,754.99	219.00	222.81	-90.00	-2,338.75	-8,287.21	2,357.00	1,916.39	440.61	5.349		
15,700.00	7,754.99	16,142.92	7,754.99	221.67	225.46	-90.00	-2,338.31	-8,387.21	2,357.00	1,911.06	445.94	5.285		
15,800.00	7,754.99	16,242.92	7,754.99	224.34	228.11	-90.00	-2,337.88	-8,487.21	2,357.00	1,905.73	451.28	5.223		
15,900.00	7,754.99	16,342.92	7,754.99	227.01	230.76	-90.00	-2,337.44	-8,587.21	2,357.01	1,900.39	456.61	5.162		
16,000.00	7,754.99	16,442.92	7,754.98	229.68	233.41	-90.00	-2,337.01	-8,687.21	2,357.01	1,895.06	461.95	5.102		
16,100.00	7,754.99	16,542.92	7,754.98	232.35	236.07	-90.00	-2,336.58	-8,787.21	2,357.01	1,889.72	467.29	5.044		
16,200.00	7,754.99	16,642.92	7,754.98	235.02	238.72	-90.00	-2,336.14	-8,887.20	2,357.01	1,884.39	472.62	4.987		
16,300.00	7,754.99	16,742.92	7,754.98	237.69	241.37	-90.00	-2,335.71	-8,987.20	2,357.01	1,879.05	477.96	4.931		
16,400.00	7,754.99	16,842.92	7,754.98	240.36	244.03	-90.00	-2,335.27	-9,087.20	2,357.02	1,873.71	483.30	4.877		
16,500.00	7,754.99	16,942.92	7,754.98	243.03	246.69	-90.00	-2,334.84	-9,187.20	2,357.02	1,868.38	488.64	4.824		
16,600.00	7,754.99	17,042.92	7,754.98	245.71	249.34	-90.00	-2,334.41	-9,287.20	2,357.02	1,863.04	493.99	4.771		
16,700.00	7,754.99	17,142.92	7,754.98	248.38	252.00	-90.00	-2,333.97	-9,387.20	2,357.02	1,857.70	499.33	4.720		
16,800.00	7,754.99	17,242.92	7,754.98	251.05	254.66	-90.00	-2,333.54	-9,487.20	2,357.03	1,852.35	504.67	4.670		
16,900.00	7,754.99	17,342.92	7,754.98	253.72	257.32	-90.00	-2,333.11	-9,587.20	2,357.03	1,847.01	510.02	4.621		
17,000.00	7,754.99	17,442.92	7,754.98	256.40	259.98	-90.00	-2,332.67	-9,687.20	2,357.03	1,841.67	515.36	4.574		
17,100.00	7,754.99	17,542.92	7,754.98	259.07	262.64	-90.00	-2,332.24	-9,787.20	2,357.03	1,836.32	520.71	4.527		
17,200.00	7,754.99	17,642.92	7,754.98	261.75	265.30	-90.00	-2,331.80	-9,887.20	2,357.04	1,830.98	526.06	4.481		
17,300.00	7,754.99	17,742.92	7,754.98	264.42	267.97	-90.00	-2,331.37	-9,987.19	2,357.04	1,825.63	531.40	4.435		
17,400.00	7,754.99	17,842.92	7,754.98	267.10	270.63	-90.00	-2,330.94	-10,087.19	2,357.04	1,820.29	536.75	4.391		
17,500.00	7,754.99	17,942.92	7,754.98	269.77	273.29	-90.00	-2,330.50	-10,187.19	2,357.04	1,814.94	542.10	4.348		
17,600.00	7,754.99	18,042.92	7,754.98	272.45	275.96	-90.00	-2,330.07	-10,287.19	2,357.05	1,809.59	547.45	4.305		
17,700.00	7,754.99	18,142.92	7,754.98	275.12	278.62	-90.00	-2,329.63	-10,387.19	2,357.05	1,804.25	552.80	4.264		
17,767.72	7,754.99	18,210.73	7,755.00	276.93	280.43	-90.00	-2,329.12	-10,455.00	2,356.83	1,800.40	556.43	4.236		
17,768.61	7,755.00	18,210.73	7,755.00	276.96	280.43	-90.00	-2,329.12	-10,455.00	2,356.83	1,800.37	556.46	4.235 SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	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	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	500.36	500.34	1.57	1.57	88.58	1.73	70.03	70.05	66.91	3.14	22.328		
600.00	600.00	600.47	600.30	1.93	1.93	84.29	6.92	69.18	69.53	65.67	3.86	18.032		
654.87	654.87	655.21	654.87	2.12	2.13	80.70	11.21	68.48	69.39	65.14	4.25	16.317	CC	
700.00	700.00	700.09	699.54	2.29	2.30	77.12	15.50	67.78	69.53	64.95	4.58	15.184	ES	
800.00	800.00	798.99	797.70	2.64	2.67	67.42	27.38	65.83	71.33	66.02	5.31	13.432		
900.00	900.00	896.95	894.46	3.00	3.06	56.19	42.43	63.37	76.46	70.41	6.05	12.646		
1,000.00	1,000.00	993.74	989.50	3.36	3.47	44.95	60.50	60.41	86.14	79.37	6.77	12.721		
1,100.00	1,100.00	1,089.18	1,082.55	3.72	3.89	34.99	81.41	56.98	100.90	93.42	7.47	13.501		
1,200.00	1,200.00	1,185.14	1,175.52	4.08	4.35	26.87	104.87	53.14	120.09	111.92	8.17	14.700		
1,292.85	1,292.83	1,275.06	1,262.59	4.40	4.79	116.63	127.03	49.51	140.32	131.49	8.83	15.897		
1,300.00	1,299.98	1,281.99	1,269.30	4.43	4.83	116.34	128.74	49.24	141.96	133.08	8.88	15.989		
1,400.00	1,399.93	1,378.83	1,363.07	4.77	5.31	112.94	152.61	45.33	165.26	155.68	9.58	17.246		
1,500.00	1,499.87	1,475.66	1,456.84	5.12	5.81	110.37	176.47	41.42	188.99	178.69	10.29	18.363		
1,600.00	1,599.82	1,572.50	1,550.61	5.46	6.30	108.38	200.34	37.51	212.99	201.98	11.00	19.354		
1,700.00	1,699.77	1,669.34	1,644.38	5.81	6.81	106.79	224.20	33.61	237.18	225.46	11.72	20.235		
1,800.00	1,799.72	1,766.18	1,738.15	6.16	7.31	105.49	248.07	29.70	261.52	249.08	12.44	21.021		
1,900.00	1,899.66	1,863.02	1,831.92	6.52	7.82	104.42	271.93	25.79	285.96	272.80	13.16	21.724		
2,000.00	1,999.61	1,959.86	1,925.70	6.87	8.33	103.51	295.80	21.88	310.48	296.59	13.89	22.356		
2,100.00	2,099.56	2,056.70	2,019.47	7.22	8.84	102.74	319.67	17.98	335.06	320.45	14.61	22.927		
2,200.00	2,199.51	2,153.54	2,113.24	7.58	9.36	102.07	343.53	14.07	359.70	344.35	15.34	23.444		
2,300.00	2,299.45	2,250.38	2,207.01	7.94	9.87	101.49	367.40	10.16	384.37	368.30	16.07	23.915		
2,400.00	2,399.40	2,347.22	2,300.78	8.29	10.39	100.98	391.26	6.26	409.07	392.27	16.80	24.346		
2,500.00	2,499.35	2,444.06	2,394.55	8.65	10.91	100.53	415.13	2.35	433.81	416.27	17.53	24.740		
2,600.00	2,599.30	2,540.90	2,488.32	9.01	11.43	100.12	438.99	-1.56	458.56	440.29	18.27	25.103		
2,700.00	2,699.24	2,637.74	2,582.09	9.37	11.95	99.76	462.86	-5.47	483.34	464.33	19.00	25.438		
2,800.00	2,799.19	2,734.58	2,675.86	9.72	12.47	99.43	486.73	-9.37	508.13	488.39	19.74	25.747		
2,900.00	2,899.14	2,831.41	2,769.63	10.08	12.99	99.13	510.59	-13.28	532.93	512.46	20.47	26.034		
3,000.00	2,999.09	2,928.25	2,863.41	10.44	13.51	98.86	534.46	-17.19	557.75	536.54	21.21	26.302		
3,100.00	3,099.03	3,025.09	2,957.18	10.80	14.03	98.61	558.32	-21.09	582.58	560.64	21.94	26.551		
3,200.00	3,198.98	3,121.93	3,050.95	11.16	14.55	98.39	582.19	-25.00	607.42	584.74	22.68	26.783		
3,300.00	3,298.93	3,218.77	3,144.72	11.52	15.07	98.18	606.05	-28.91	632.26	608.85	23.42	27.001		
3,400.00	3,398.88	3,315.61	3,238.49	11.88	15.59	97.98	629.92	-32.82	657.11	632.96	24.15	27.206		
3,500.00	3,498.82	3,412.45	3,332.26	12.24	16.11	97.80	653.79	-36.72	681.97	657.08	24.89	27.398		
3,600.00	3,598.77	3,509.29	3,426.03	12.60	16.64	97.64	677.65	-40.63	706.84	681.21	25.63	27.579		
3,700.00	3,698.72	3,606.13	3,519.80	12.96	17.16	97.48	701.52	-44.54	731.71	705.34	26.37	27.749		
3,800.00	3,798.67	3,702.97	3,613.57	13.32	17.68	97.33	725.38	-48.45	756.59	729.48	27.11	27.910		
3,900.00	3,898.61	3,799.81	3,707.35	13.68	18.21	97.20	749.25	-52.35	781.47	753.62	27.85	28.063		
4,000.00	3,998.56	3,903.35	3,801.12	14.04	18.77	97.07	773.11	-56.26	806.35	777.74	28.61	28.180		
4,100.00	4,098.51	4,006.51	3,894.89	14.40	19.32	96.95	796.98	-60.17	831.24	801.86	29.38	28.293		
4,200.00	4,198.46	4,109.67	3,988.66	14.76	19.88	96.84	820.85	-64.07	856.13	825.98	30.15	28.400		
4,300.00	4,298.40	4,187.17	4,082.43	15.13	20.30	96.73	844.71	-67.98	881.02	850.22	30.81	28.598		
4,400.00	4,398.35	4,284.00	4,176.20	15.49	20.83	96.63	868.58	-71.89	905.92	874.37	31.55	28.716		
4,500.00	4,498.30	4,380.84	4,269.97	15.85	21.35	96.53	892.44	-75.80	930.82	898.53	32.29	28.828		
4,600.00	4,598.25	4,477.68	4,363.74	16.21	21.87	96.44	916.31	-79.70	955.72	922.69	33.03	28.935		
4,700.00	4,698.19	4,574.52	4,457.51	16.57	22.40	96.36	940.18	-83.61	980.62	946.85	33.77	29.038		
4,800.00	4,798.14	4,671.36	4,551.28	16.93	22.92	96.28	964.04	-87.52	1,005.53	971.02	34.51	29.136		
4,900.00	4,898.09	4,768.20	4,645.06	17.29	23.45	96.20	987.91	-91.42	1,030.43	995.18	35.25	29.229		

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 5-6-6
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 5-6-6	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			
5,000.00	4,998.04	4,865.04	4,738.83	17.66	23.97	96.12	1,011.77	-95.33	1,055.34	1,019.35	36.00	29.319			
5,100.00	5,097.98	4,961.88	4,832.60	18.02	24.50	96.05	1,035.64	-99.24	1,080.25	1,043.52	36.74	29.405			
5,200.00	5,197.93	5,058.72	4,926.37	18.38	25.02	95.99	1,059.50	-103.15	1,105.17	1,067.69	37.48	29.487			
5,300.00	5,297.88	5,155.56	5,020.14	18.74	25.55	95.92	1,083.37	-107.05	1,130.08	1,091.86	38.22	29.567			
5,400.00	5,397.83	5,252.40	5,113.91	19.10	26.07	95.86	1,107.24	-110.96	1,154.99	1,116.03	38.96	29.643			
5,500.00	5,497.77	5,349.24	5,207.68	19.46	26.60	95.80	1,131.10	-114.87	1,179.91	1,140.20	39.71	29.716			
5,600.00	5,597.72	5,446.08	5,301.45	19.83	27.12	95.74	1,154.97	-118.78	1,204.83	1,164.38	40.45	29.786			
5,700.00	5,697.67	5,542.92	5,395.22	20.19	27.65	95.69	1,178.83	-122.68	1,229.74	1,188.55	41.19	29.854			
5,800.00	5,797.62	5,639.75	5,489.00	20.55	28.17	95.64	1,202.70	-126.59	1,254.66	1,212.73	41.93	29.919			
5,900.00	5,897.56	5,736.59	5,582.77	20.91	28.70	95.59	1,226.56	-130.50	1,279.58	1,236.90	42.68	29.982			
6,000.00	5,997.51	5,833.43	5,676.54	21.27	29.22	95.54	1,250.43	-134.40	1,304.50	1,261.08	43.42	30.043			
6,100.00	6,097.46	5,930.27	5,770.31	21.64	29.75	95.49	1,274.30	-138.31	1,329.42	1,285.26	44.16	30.102			
6,200.00	6,197.41	6,027.11	5,864.08	22.00	30.27	95.45	1,298.16	-142.22	1,354.35	1,309.44	44.91	30.158			
6,300.00	6,297.35	6,123.95	5,957.85	22.36	30.80	95.40	1,322.03	-146.13	1,379.27	1,333.62	45.65	30.213			
6,400.00	6,397.30	6,220.79	6,051.62	22.72	31.32	95.36	1,345.89	-150.03	1,404.19	1,357.80	46.40	30.266			
6,500.00	6,497.25	6,317.63	6,145.39	23.08	31.85	95.32	1,369.76	-153.94	1,429.12	1,381.98	47.14	30.317			
6,600.00	6,597.20	6,414.47	6,239.16	23.45	32.37	95.28	1,393.62	-157.85	1,454.04	1,406.16	47.88	30.366			
6,700.00	6,697.14	6,511.31	6,332.93	23.81	32.90	95.25	1,417.49	-161.75	1,478.97	1,430.34	48.63	30.414			
6,800.00	6,797.09	6,608.15	6,426.71	24.17	33.42	95.21	1,441.36	-165.66	1,503.89	1,454.52	49.37	30.461			
6,900.00	6,897.04	6,704.99	6,520.48	24.53	33.95	95.18	1,465.22	-169.57	1,528.82	1,478.71	50.12	30.506			
7,000.00	6,996.99	6,853.67	6,664.84	24.90	34.73	95.13	1,500.29	-175.31	1,553.00	1,501.77	51.22	30.319			
7,062.22	7,059.17	6,985.43	6,794.08	25.12	35.36	95.14	1,525.56	-179.45	1,565.11	1,513.01	52.10	30.042			
7,100.00	7,096.94	7,066.53	6,874.16	25.26	35.71	95.25	1,538.18	-181.51	1,571.08	1,518.50	52.58	29.880			
7,155.06	7,152.00	7,185.88	6,992.59	25.45	36.18	0.19	1,552.68	-183.89	1,577.81	1,524.60	53.21	29.653			
7,185.06	7,182.00	7,251.36	7,057.80	25.55	36.40	0.16	1,558.57	-184.85	1,580.51	1,527.00	53.51	29.535			
7,200.00	7,196.94	7,284.07	7,090.42	25.61	36.52	89.80	1,560.95	-185.24	1,581.60	1,527.94	53.66	29.476			
7,250.00	7,246.80	7,393.58	7,199.79	25.79	36.85	89.80	1,566.27	-186.11	1,584.02	1,529.91	54.10	29.277			
7,300.00	7,296.17	7,300.00	7,274.42	25.98	36.61	90.11	1,567.39	-186.30	1,584.60	1,530.66	53.95	29.373			
7,350.00	7,344.67	7,539.46	7,345.65	26.19	37.22	90.66	1,567.55	-187.09	1,584.71	1,529.83	54.88	28.877			
7,400.00	7,391.93	7,590.28	7,396.21	26.40	37.35	91.07	1,567.57	-191.96	1,584.89	1,529.62	55.27	28.675			
7,450.00	7,437.60	7,642.22	7,447.24	26.62	37.49	91.48	1,567.62	-201.55	1,585.15	1,529.47	55.68	28.468			
7,500.00	7,481.32	7,695.35	7,498.32	26.85	37.64	91.88	1,567.68	-216.10	1,585.49	1,529.38	56.12	28.254			
7,550.00	7,522.76	7,749.72	7,548.97	27.09	37.80	92.27	1,567.76	-235.82	1,585.90	1,529.33	56.57	28.032			
7,600.00	7,561.61	7,805.36	7,598.63	27.36	37.97	92.65	1,567.87	-260.87	1,586.37	1,529.30	57.07	27.798			
7,650.00	7,597.57	7,862.30	7,646.68	27.65	38.15	93.01	1,568.00	-291.37	1,586.87	1,529.27	57.60	27.549			
7,700.00	7,630.37	7,920.55	7,692.46	27.96	38.35	93.35	1,568.16	-327.34	1,587.40	1,529.21	58.19	27.282			
7,750.00	7,659.76	7,980.07	7,735.22	28.32	38.56	93.67	1,568.33	-368.70	1,587.94	1,529.10	58.83	26.991			
7,800.00	7,685.51	8,040.82	7,774.20	28.71	38.79	93.96	1,568.54	-415.26	1,588.46	1,528.90	59.56	26.672			
7,850.00	7,707.43	8,102.71	7,808.63	29.14	39.04	94.21	1,568.76	-466.66	1,588.94	1,528.58	60.37	26.321			
7,900.00	7,725.35	8,165.63	7,837.73	29.62	39.33	94.43	1,569.00	-522.41	1,589.37	1,528.09	61.28	25.934			
7,950.00	7,739.14	8,229.43	7,860.82	30.14	39.66	94.60	1,569.25	-581.85	1,589.73	1,527.42	62.31	25.514			
8,000.00	7,748.69	8,293.92	7,877.31	30.71	40.05	94.73	1,569.52	-644.16	1,590.00	1,526.56	63.44	25.063			
8,050.00	7,753.92	8,358.89	7,886.73	31.31	40.48	94.81	1,569.80	-708.41	1,590.17	1,525.49	64.68	24.587			
8,085.13	7,755.00	8,404.71	7,888.98	31.75	40.83	94.83	1,569.99	-754.15	1,590.22	1,524.62	65.60	24.243			
8,100.00	7,755.00	8,420.79	7,889.00	31.94	40.96	94.83	1,570.06	-770.23	1,590.22	1,524.23	65.99	24.099			
8,200.00	7,755.00	8,520.78	7,889.00	33.33	41.84	94.83	1,570.49	-870.23	1,590.21	1,521.51	68.70	23.147			
8,300.00	7,755.00	8,620.78	7,889.00	34.87	42.88	94.83	1,570.93	-970.23	1,590.21	1,518.50	71.71	22.176			
8,400.00	7,755.00	8,720.78	7,889.00	36.54	44.08	94.83	1,571.36	-1,070.22	1,590.20	1,515.22	74.98	21.208			
8,500.00	7,755.00	8,820.78	7,888.99	38.33	45.42	94.83	1,571.79	-1,170.22	1,590.20	1,511.72	78.48	20.262			
8,600.00	7,755.00	8,920.78	7,888.99	40.22	46.90	94.83	1,572.22	-1,270.22	1,590.19	1,508.01	82.19	19.349			
8,700.00	7,755.00	9,020.77	7,888.99	42.19	48.51	94.83	1,572.65	-1,370.22	1,590.19	1,504.13	86.06	18.477			
8,800.00	7,755.00	9,120.77	7,888.99	44.24	50.23	94.83	1,573.08	-1,470.21	1,590.18	1,500.09	90.09	17.651			

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 5-6-6
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 5-6-6	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	7,755.00	9,220.77	7,888.99	46.36	52.05	94.83	1,573.51	-1,570.21	1,590.18	1,495.92	94.25	16.871		
9,000.00	7,755.00	9,320.77	7,888.99	48.54	53.95	94.83	1,573.94	-1,670.21	1,590.17	1,491.64	98.53	16.138		
9,100.00	7,755.00	9,420.77	7,888.99	50.76	55.93	94.83	1,574.38	-1,770.20	1,590.17	1,487.26	102.91	15.452		
9,200.00	7,755.00	9,520.76	7,888.99	53.03	57.97	94.83	1,574.81	-1,870.20	1,590.16	1,482.78	107.38	14.809		
9,300.00	7,755.00	9,620.76	7,888.99	55.33	60.07	94.83	1,575.24	-1,970.20	1,590.16	1,478.23	111.93	14.207		
9,400.00	7,755.00	9,720.76	7,888.99	57.67	62.23	94.83	1,575.67	-2,070.20	1,590.16	1,473.61	116.54	13.644		
9,500.00	7,755.00	9,820.76	7,888.98	60.03	64.42	94.83	1,576.10	-2,170.19	1,590.15	1,468.93	121.22	13.118		
9,600.00	7,755.00	9,920.76	7,888.98	62.43	66.66	94.83	1,576.54	-2,270.19	1,590.15	1,464.19	125.95	12.625		
9,700.00	7,755.00	10,020.75	7,888.98	64.84	68.94	94.83	1,576.97	-2,370.19	1,590.14	1,459.41	130.73	12.163		
9,800.00	7,755.00	10,120.75	7,888.98	67.28	71.24	94.83	1,577.40	-2,470.18	1,590.14	1,454.58	135.56	11.730		
9,900.00	7,755.00	10,220.75	7,888.98	69.74	73.57	94.83	1,577.83	-2,570.18	1,590.14	1,449.72	140.42	11.324		
10,000.00	7,755.00	10,320.75	7,888.98	72.21	75.93	94.83	1,578.27	-2,670.18	1,590.13	1,444.82	145.32	10.942		
10,100.00	7,755.00	10,420.75	7,888.98	74.70	78.31	94.83	1,578.70	-2,770.18	1,590.13	1,439.88	150.25	10.583		
10,200.00	7,755.00	10,520.75	7,888.98	77.20	80.71	94.83	1,579.13	-2,870.17	1,590.13	1,434.92	155.21	10.245		
10,300.00	7,755.00	10,620.74	7,888.98	79.71	83.13	94.83	1,579.57	-2,970.17	1,590.12	1,429.93	160.19	9.926		
10,400.00	7,755.00	10,720.74	7,888.98	82.24	85.57	94.83	1,580.00	-3,070.17	1,590.12	1,424.92	165.20	9.626		
10,500.00	7,755.00	10,820.74	7,888.98	84.77	88.02	94.83	1,580.43	-3,170.16	1,590.12	1,419.89	170.23	9.341		
10,600.00	7,755.00	10,920.74	7,888.98	87.32	90.49	94.83	1,580.87	-3,270.16	1,590.12	1,414.84	175.28	9.072		
10,700.00	7,755.00	11,020.74	7,888.98	89.87	92.97	94.83	1,581.30	-3,370.16	1,590.11	1,409.77	180.34	8.817		
10,800.00	7,755.00	11,120.73	7,888.97	92.43	95.46	94.83	1,581.73	-3,470.16	1,590.11	1,404.68	185.43	8.575		
10,900.00	7,755.00	11,220.73	7,888.97	95.00	97.97	94.83	1,582.17	-3,570.15	1,590.11	1,399.58	190.52	8.346		
11,000.00	7,755.00	11,320.73	7,888.97	97.57	100.48	94.83	1,582.60	-3,670.15	1,590.11	1,394.47	195.64	8.128		
11,100.00	7,755.00	11,420.73	7,888.97	100.15	103.00	94.83	1,583.04	-3,770.15	1,590.10	1,389.34	200.76	7.920		
11,200.00	7,755.00	11,520.73	7,888.97	102.74	105.53	94.83	1,583.47	-3,870.14	1,590.10	1,384.20	205.90	7.723		
11,300.00	7,755.00	11,620.72	7,888.97	105.33	108.07	94.83	1,583.91	-3,970.14	1,590.10	1,379.05	211.05	7.534		
11,400.00	7,755.00	11,720.72	7,888.97	107.92	110.62	94.83	1,584.34	-4,070.14	1,590.10	1,373.89	216.21	7.354		
11,500.00	7,755.00	11,820.72	7,888.97	110.52	113.17	94.83	1,584.77	-4,170.14	1,590.10	1,368.72	221.38	7.183		
11,600.00	7,755.00	11,920.72	7,888.97	113.13	115.73	94.83	1,585.21	-4,270.13	1,590.10	1,363.54	226.55	7.019		
11,700.00	7,755.00	12,020.72	7,888.97	115.74	118.30	94.83	1,585.64	-4,370.13	1,590.09	1,358.35	231.74	6.862		
11,800.00	7,755.00	12,120.71	7,888.97	118.35	120.87	94.83	1,586.08	-4,470.13	1,590.09	1,353.16	236.93	6.711		
11,900.00	7,755.00	12,220.71	7,888.97	120.96	123.44	94.83	1,586.51	-4,570.12	1,590.09	1,347.96	242.14	6.567		
12,000.00	7,755.00	12,320.71	7,888.97	123.58	126.02	94.83	1,586.95	-4,670.12	1,590.09	1,342.75	247.34	6.429		
12,100.00	7,755.00	12,420.71	7,888.97	126.20	128.61	94.83	1,587.38	-4,770.12	1,590.09	1,337.53	252.56	6.296		
12,200.00	7,755.00	12,520.71	7,888.97	128.83	131.20	94.83	1,587.82	-4,870.12	1,590.09	1,332.31	257.78	6.168		
12,300.00	7,755.00	12,620.70	7,888.97	131.46	133.79	94.83	1,588.26	-4,970.11	1,590.09	1,327.09	263.00	6.046		
12,400.00	7,755.00	12,720.70	7,888.97	134.09	136.39	94.83	1,588.69	-5,070.11	1,590.09	1,321.85	268.23	5.928		
12,500.00	7,755.00	12,820.70	7,888.97	136.72	138.99	94.83	1,589.13	-5,170.11	1,590.09	1,316.62	273.47	5.814		
12,600.00	7,755.00	12,920.70	7,888.97	139.35	141.60	94.83	1,589.56	-5,270.10	1,590.09	1,311.38	278.71	5.705		
12,700.00	7,755.00	13,020.70	7,888.97	141.99	144.20	94.83	1,590.00	-5,370.10	1,590.09	1,306.13	283.96	5.600		
12,769.31	7,755.00	13,110.00	7,888.97	143.82	146.54	94.83	1,590.30	-5,439.41	1,590.09	1,301.97	288.12	5.519		
12,800.00	7,755.00	13,120.70	7,888.97	144.63	146.82	94.83	1,590.44	-5,470.10	1,590.09	1,300.88	289.21	5.498		
12,900.00	7,755.00	13,220.69	7,888.97	147.27	149.43	94.83	1,590.87	-5,570.10	1,590.09	1,295.63	294.46	5.400		
13,000.00	7,754.99	13,320.69	7,888.97	149.91	152.05	94.83	1,591.31	-5,670.09	1,590.09	1,290.37	299.72	5.305		
13,100.00	7,754.99	13,420.69	7,888.97	152.55	154.67	94.83	1,591.74	-5,770.09	1,590.09	1,285.11	304.98	5.214		
13,200.00	7,754.99	13,520.69	7,888.97	155.20	157.29	94.83	1,592.18	-5,870.09	1,590.09	1,279.84	310.24	5.125		
13,300.00	7,754.99	13,620.69	7,888.97	157.84	159.91	94.83	1,592.62	-5,970.08	1,590.09	1,274.58	315.51	5.040		
13,400.00	7,754.99	13,720.68	7,888.97	160.49	162.54	94.83	1,593.05	-6,070.08	1,590.09	1,269.31	320.78	4.957		
13,500.00	7,754.99	13,820.68	7,888.97	163.14	165.16	94.83	1,593.49	-6,170.08	1,590.09	1,264.03	326.06	4.877		
13,600.00	7,754.99	13,920.68	7,888.97	165.79	167.79	94.83	1,593.93	-6,270.08	1,590.09	1,258.76	331.33	4.799		
13,700.00	7,754.99	14,020.68	7,888.97	168.44	170.43	94.83	1,594.37	-6,370.07	1,590.09	1,253.48	336.61	4.724		
13,800.00	7,754.99	14,120.68	7,888.97	171.10	173.06	94.83	1,594.80	-6,470.07	1,590.09	1,248.20	341.89	4.651		
13,900.00	7,754.99	14,220.67	7,888.97	173.75	175.70	94.83	1,595.24	-6,570.07	1,590.10	1,242.92	347.18	4.580		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,000.00	7,754.99	14,320.67	7,888.97	176.41	178.33	94.83	1,595.68	-6,670.06	1,590.10	1,237.63	352.46	4.511			
14,100.00	7,754.99	14,420.67	7,888.97	179.06	180.97	94.83	1,596.12	-6,770.06	1,590.10	1,232.34	357.75	4.445			
14,200.00	7,754.99	14,520.67	7,888.97	181.72	183.61	94.83	1,596.55	-6,870.06	1,590.10	1,227.06	363.04	4.380			
14,300.00	7,754.99	14,620.67	7,888.97	184.38	186.25	94.83	1,596.99	-6,970.06	1,590.10	1,221.76	368.34	4.317			
14,400.00	7,754.99	14,720.66	7,888.97	187.04	188.90	94.83	1,597.43	-7,070.05	1,590.10	1,216.47	373.63	4.256			
14,500.00	7,754.99	14,820.66	7,888.97	189.70	191.54	94.83	1,597.87	-7,170.05	1,590.11	1,211.18	378.93	4.196			
14,600.00	7,754.99	14,920.66	7,888.97	192.36	194.19	94.83	1,598.31	-7,270.05	1,590.11	1,205.88	384.23	4.138			
14,700.00	7,754.99	15,020.66	7,888.97	195.02	196.83	94.83	1,598.74	-7,370.04	1,590.11	1,200.58	389.53	4.082			
14,800.00	7,754.99	15,120.66	7,888.97	197.68	199.48	94.83	1,599.18	-7,470.04	1,590.11	1,195.28	394.83	4.027			
14,900.00	7,754.99	15,220.65	7,888.97	200.34	202.13	94.83	1,599.62	-7,570.04	1,590.11	1,189.98	400.13	3.974			
15,000.00	7,754.99	15,320.65	7,888.97	203.01	204.78	94.83	1,600.06	-7,670.04	1,590.12	1,184.68	405.44	3.922			
15,100.00	7,754.99	15,420.65	7,888.97	205.67	207.43	94.83	1,600.50	-7,770.03	1,590.12	1,179.38	410.74	3.871			
15,200.00	7,754.99	15,520.65	7,888.98	208.34	210.08	94.83	1,600.94	-7,870.03	1,590.12	1,174.07	416.05	3.822			
15,300.00	7,754.99	15,620.65	7,888.98	211.00	212.74	94.83	1,601.38	-7,970.03	1,590.13	1,168.76	421.36	3.774			
15,400.00	7,754.99	15,720.65	7,888.98	213.67	215.39	94.83	1,601.82	-8,070.02	1,590.13	1,163.46	426.67	3.727			
15,500.00	7,754.99	15,820.64	7,888.98	216.34	218.05	94.83	1,602.26	-8,170.02	1,590.13	1,158.15	431.98	3.681			
15,600.00	7,754.99	15,920.64	7,888.98	219.00	220.70	94.83	1,602.70	-8,270.02	1,590.14	1,152.84	437.30	3.636			
15,700.00	7,754.99	16,020.64	7,888.98	221.67	223.36	94.83	1,603.14	-8,370.02	1,590.14	1,147.53	442.61	3.593			
15,800.00	7,754.99	16,120.64	7,888.98	224.34	226.02	94.83	1,603.58	-8,470.01	1,590.14	1,142.22	447.93	3.550			
15,900.00	7,754.99	16,220.64	7,888.98	227.01	228.67	94.83	1,604.02	-8,570.01	1,590.15	1,136.90	453.24	3.508			
16,000.00	7,754.99	16,320.63	7,888.98	229.68	231.33	94.83	1,604.46	-8,670.01	1,590.15	1,131.59	458.56	3.468			
16,100.00	7,754.99	16,420.63	7,888.98	232.35	233.99	94.83	1,604.90	-8,770.00	1,590.15	1,126.28	463.88	3.428			
16,200.00	7,754.99	16,520.63	7,888.98	235.02	236.65	94.83	1,605.34	-8,870.00	1,590.16	1,120.96	469.20	3.389			
16,300.00	7,754.99	16,620.63	7,888.98	237.69	239.31	94.83	1,605.78	-8,970.00	1,590.16	1,115.65	474.52	3.351			
16,400.00	7,754.99	16,720.63	7,888.98	240.36	241.98	94.83	1,606.22	-9,070.00	1,590.17	1,110.33	479.84	3.314			
16,500.00	7,754.99	16,820.62	7,888.99	243.03	244.64	94.83	1,606.66	-9,169.99	1,590.17	1,105.01	485.16	3.278			
16,600.00	7,754.99	16,920.62	7,888.99	245.71	247.30	94.83	1,607.10	-9,269.99	1,590.18	1,099.69	490.48	3.242			
16,700.00	7,754.99	17,020.62	7,888.99	248.38	249.96	94.83	1,607.54	-9,369.99	1,590.18	1,094.37	495.81	3.207			
16,800.00	7,754.99	17,120.62	7,888.99	251.05	252.63	94.83	1,607.98	-9,469.98	1,590.19	1,089.05	501.13	3.173			
16,900.00	7,754.99	17,220.62	7,888.99	253.72	255.29	94.83	1,608.42	-9,569.98	1,590.19	1,083.73	506.46	3.140			
17,000.00	7,754.99	17,320.61	7,888.99	256.40	257.96	94.83	1,608.86	-9,669.98	1,590.20	1,078.41	511.78	3.107			
17,100.00	7,754.99	17,420.61	7,888.99	259.07	260.62	94.83	1,609.30	-9,769.97	1,590.20	1,073.09	517.11	3.075			
17,200.00	7,754.99	17,520.61	7,888.99	261.75	263.29	94.83	1,609.74	-9,869.97	1,590.21	1,067.77	522.44	3.044			
17,300.00	7,754.99	17,620.61	7,888.99	264.42	265.96	94.83	1,610.19	-9,969.97	1,590.21	1,062.45	527.76	3.013			
17,400.00	7,754.99	17,720.61	7,889.00	267.10	268.62	94.83	1,610.63	-10,069.97	1,590.22	1,057.12	533.09	2.983			
17,500.00	7,754.99	17,820.60	7,889.00	269.77	271.29	94.83	1,611.07	-10,169.96	1,590.22	1,051.80	538.42	2.953			
17,600.00	7,754.99	17,920.60	7,889.00	272.45	273.96	94.83	1,611.51	-10,269.96	1,590.23	1,046.48	543.75	2.925			
17,700.00	7,754.99	18,020.60	7,889.00	275.12	276.63	94.83	1,611.95	-10,369.96	1,590.23	1,041.15	549.08	2.896			
17,757.39	7,754.99	18,077.99	7,889.00	276.66	278.16	94.83	1,612.21	-10,427.35	1,590.24	1,038.10	552.14	2.880			
17,768.61	7,755.00	18,089.21	7,889.00	276.96	278.46	94.83	1,612.26	-10,438.57	1,590.23	1,037.49	552.74	2.877	SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	53.44	53.44					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	53.44	53.44	53.17	0.27	198.760		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	53.44	53.44	52.45	0.99	54.207		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	53.44	53.44	51.73	1.70	31.383		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	53.44	53.44	51.02	2.42	22.084		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	53.44	53.44	50.30	3.14	17.037		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	53.44	53.44	49.58	3.85	13.867		
700.00	700.00	700.33	700.31	2.29	2.29	88.14	1.72	53.08	53.11	48.54	4.57	11.620		
800.00	800.00	800.42	800.26	2.64	2.65	82.48	6.87	52.03	52.48	47.19	5.29	9.925		
847.65	847.65	847.96	847.65	2.81	2.82	78.42	10.51	51.29	52.35	46.72	5.63	9.296 CC		
900.00	900.00	900.03	899.48	3.00	3.01	73.00	15.38	50.29	52.59	46.58	6.01	8.752 ES		
1,000.00	1,000.00	998.90	997.62	3.36	3.38	60.43	27.16	47.87	55.09	48.36	6.73	8.183		
1,100.00	1,100.00	1,096.84	1,094.35	3.72	3.76	46.79	42.10	44.81	61.75	54.30	7.45	8.287		
1,200.00	1,200.00	1,205.86	1,189.92	4.08	4.20	34.45	59.99	41.15	73.44	65.24	8.20	8.956		
1,292.85	1,292.83	1,285.20	1,279.22	4.40	4.54	121.61	77.45	37.57	87.93	79.12	8.81	9.984		
1,300.00	1,299.98	1,307.78	1,286.10	4.43	4.64	121.19	78.80	37.29	89.16	80.24	8.92	9.995		
1,400.00	1,399.93	1,409.69	1,382.29	4.77	5.08	116.24	97.61	33.44	106.77	97.14	9.64	11.081		
1,500.00	1,499.87	1,488.39	1,478.48	5.12	5.43	112.71	116.42	29.59	124.94	114.67	10.27	12.171		
1,600.00	1,599.82	1,586.48	1,574.67	5.46	5.87	110.08	135.23	25.74	143.45	132.47	10.97	13.071		
1,700.00	1,699.77	1,684.56	1,670.86	5.81	6.31	108.05	154.03	21.88	162.19	150.50	11.69	13.879		
1,800.00	1,799.72	1,782.65	1,767.04	6.16	6.76	106.44	172.84	18.03	181.08	168.68	12.40	14.596		
1,900.00	1,899.66	1,880.73	1,863.23	6.52	7.21	105.14	191.65	14.18	200.08	186.96	13.12	15.248		
2,000.00	1,999.61	1,978.82	1,959.42	6.87	7.66	104.06	210.46	10.32	219.17	205.33	13.84	15.833		
2,100.00	2,099.56	2,076.90	2,055.61	7.22	8.11	103.15	229.27	6.47	238.32	223.76	14.56	16.363		
2,200.00	2,199.51	2,174.99	2,151.79	7.58	8.57	102.38	248.08	2.62	257.52	242.23	15.29	16.845		
2,300.00	2,299.45	2,273.07	2,247.98	7.94	9.03	101.72	266.88	-1.24	276.76	260.75	16.01	17.284		
2,400.00	2,399.40	2,371.16	2,344.17	8.29	9.49	101.14	285.69	-5.09	296.03	279.29	16.74	17.685		
2,500.00	2,499.35	2,469.24	2,440.36	8.65	9.95	100.64	304.50	-8.94	315.32	297.86	17.47	18.054		
2,600.00	2,599.30	2,567.33	2,536.55	9.01	10.41	100.19	323.31	-12.79	334.64	316.44	18.19	18.394		
2,700.00	2,699.24	2,665.41	2,632.73	9.37	10.87	99.79	342.12	-16.65	353.97	335.05	18.92	18.707		
2,800.00	2,799.19	2,763.50	2,728.92	9.72	11.33	99.43	360.93	-20.50	373.32	353.67	19.65	18.998		
2,900.00	2,899.14	2,861.58	2,825.11	10.08	11.79	99.11	379.74	-24.35	392.68	372.30	20.38	19.268		
3,000.00	2,999.09	2,959.67	2,921.30	10.44	12.26	98.81	398.54	-28.21	412.05	390.94	21.11	19.519		
3,100.00	3,099.03	3,057.75	3,017.48	10.80	12.72	98.55	417.35	-32.06	431.43	409.59	21.84	19.753		
3,200.00	3,198.98	3,155.84	3,113.67	11.16	13.18	98.31	436.16	-35.91	450.82	428.25	22.57	19.972		
3,300.00	3,298.93	3,253.92	3,209.86	11.52	13.65	98.08	454.97	-39.77	470.22	446.91	23.30	20.177		
3,400.00	3,398.88	3,352.01	3,306.05	11.88	14.11	97.88	473.78	-43.62	489.62	465.58	24.04	20.370		
3,500.00	3,498.82	3,450.09	3,402.24	12.24	14.58	97.69	492.59	-47.47	509.03	484.26	24.77	20.551		
3,600.00	3,598.77	3,548.18	3,498.42	12.60	15.05	97.51	511.39	-51.32	528.44	502.94	25.50	20.722		
3,700.00	3,698.72	3,646.26	3,594.61	12.96	15.51	97.35	530.20	-55.18	547.86	521.62	26.23	20.883		
3,800.00	3,798.67	3,744.35	3,690.80	13.32	15.98	97.20	549.01	-59.03	567.28	540.31	26.97	21.036		
3,900.00	3,898.61	3,842.43	3,786.99	13.68	16.44	97.05	567.82	-62.88	586.70	559.00	27.70	21.180		
4,000.00	3,998.56	3,940.52	3,883.17	14.04	16.91	96.92	586.63	-66.74	606.13	577.70	28.43	21.317		
4,100.00	4,098.51	4,038.60	3,979.36	14.40	17.38	96.79	605.44	-70.59	625.56	596.40	29.17	21.447		
4,200.00	4,198.46	4,136.69	4,075.55	14.76	17.84	96.68	624.24	-74.44	645.00	615.10	29.90	21.570		
4,300.00	4,298.40	4,234.77	4,171.74	15.13	18.31	96.57	643.05	-78.30	664.43	633.80	30.64	21.687		
4,400.00	4,398.35	4,332.86	4,267.93	15.49	18.78	96.46	661.86	-82.15	683.87	652.50	31.37	21.799		
4,500.00	4,498.30	4,430.94	4,364.11	15.85	19.25	96.36	680.67	-86.00	703.31	671.21	32.11	21.906		
4,600.00	4,598.25	4,529.03	4,460.30	16.21	19.71	96.27	699.48	-89.85	722.76	689.92	32.84	22.008		
4,700.00	4,698.19	4,627.12	4,556.49	16.57	20.18	96.18	718.29	-93.71	742.20	708.62	33.58	22.105		
4,800.00	4,798.14	4,725.20	4,652.68	16.93	20.65	96.10	737.09	-97.56	761.65	727.34	34.31	22.198		
4,900.00	4,898.09	4,823.29	4,748.86	17.29	21.12	96.02	755.90	-101.41	781.09	746.05	35.05	22.287		

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 5-6-6
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 5-6-6	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			
5,000.00	4,998.04	4,921.37	4,845.05	17.66	21.59	95.94	774.71	-105.27	800.54	764.76	35.78	22.373			
5,100.00	5,097.98	5,019.46	4,941.24	18.02	22.05	95.87	793.52	-109.12	819.99	783.48	36.52	22.455			
5,200.00	5,197.93	5,117.54	5,037.43	18.38	22.52	95.80	812.33	-112.97	839.44	802.19	37.25	22.533			
5,300.00	5,297.88	5,215.63	5,133.62	18.74	22.99	95.74	831.14	-116.83	858.90	820.91	37.99	22.609			
5,400.00	5,397.83	5,313.71	5,229.80	19.10	23.46	95.67	849.95	-120.68	878.35	839.63	38.73	22.682			
5,500.00	5,497.77	5,411.80	5,325.99	19.46	23.93	95.61	868.75	-124.53	897.80	858.34	39.46	22.752			
5,600.00	5,597.72	5,509.88	5,422.18	19.83	24.40	95.56	887.56	-128.38	917.26	877.06	40.20	22.819			
5,700.00	5,697.67	5,607.97	5,518.37	20.19	24.86	95.50	906.37	-132.24	936.72	895.78	40.93	22.884			
5,800.00	5,797.62	5,706.05	5,614.55	20.55	25.33	95.45	925.18	-136.09	956.17	914.50	41.67	22.946			
5,900.00	5,897.56	5,804.14	5,710.74	20.91	25.80	95.40	943.99	-139.94	975.63	933.22	42.41	23.007			
6,000.00	5,997.51	5,902.22	5,806.93	21.27	26.27	95.35	962.80	-143.80	995.09	951.95	43.14	23.065			
6,100.00	6,097.46	6,000.31	5,903.12	21.64	26.74	95.30	981.60	-147.65	1,014.55	970.67	43.88	23.121			
6,200.00	6,197.41	6,101.61	5,999.31	22.00	27.22	95.26	1,000.41	-151.50	1,034.01	989.38	44.63	23.169			
6,300.00	6,297.35	6,196.48	6,095.49	22.36	27.68	95.21	1,019.22	-155.36	1,053.47	1,008.12	45.35	23.228			
6,400.00	6,397.30	6,305.44	6,191.68	22.72	28.20	95.17	1,038.03	-159.21	1,072.93	1,026.80	46.13	23.257			
6,500.00	6,497.25	6,407.35	6,287.87	23.08	28.69	95.13	1,056.84	-163.06	1,092.39	1,045.51	46.88	23.299			
6,600.00	6,597.20	6,509.27	6,384.06	23.45	29.17	95.09	1,075.65	-166.91	1,111.85	1,064.22	47.64	23.340			
6,700.00	6,697.14	6,588.82	6,480.24	23.81	29.55	95.06	1,094.45	-170.77	1,131.32	1,083.01	48.30	23.422			
6,800.00	6,797.09	6,686.90	6,576.43	24.17	30.02	95.02	1,113.26	-174.62	1,150.78	1,101.74	49.04	23.466			
6,900.00	6,897.04	6,840.24	6,727.41	24.53	30.72	95.00	1,139.45	-179.99	1,168.28	1,118.14	50.14	23.300			
7,000.00	6,996.99	7,006.15	6,822.10	24.90	31.38	95.07	1,158.88	-183.96	1,180.28	1,129.10	51.18	23.060			
7,062.22	7,059.17	7,110.30	6,995.97	25.12	31.75	95.16	1,166.28	-185.48	1,184.89	1,133.13	51.76	22.894			
7,100.00	7,096.94	7,173.76	7,059.37	25.26	31.95	95.24	1,168.98	-186.03	1,186.58	1,134.51	52.07	22.788			
7,155.06	7,152.00	7,266.41	7,152.00	25.45	32.23	0.14	1,170.45	-186.34	1,187.50	1,135.02	52.49	22.625			
7,185.06	7,182.00	7,296.41	7,182.00	25.55	32.31	0.14	1,170.45	-186.34	1,187.50	1,134.82	52.69	22.539			
7,186.82	7,183.76	7,298.16	7,183.76	25.56	32.31	89.89	1,170.45	-186.34	1,187.50	1,134.80	52.70	22.533			
7,200.00	7,196.94	7,311.28	7,196.88	25.61	32.35	89.89	1,170.45	-186.53	1,187.50	1,134.71	52.79	22.495			
7,250.00	7,246.80	7,361.08	7,246.54	25.79	32.49	89.89	1,170.47	-189.98	1,187.50	1,134.36	53.14	22.346			
7,300.00	7,296.17	7,410.88	7,295.71	25.98	32.64	89.89	1,170.50	-197.73	1,187.50	1,133.99	53.51	22.191			
7,350.00	7,344.67	7,460.68	7,344.03	26.19	32.80	89.89	1,170.55	-209.72	1,187.50	1,133.60	53.90	22.030			
7,400.00	7,391.93	7,510.48	7,391.13	26.40	32.96	89.90	1,170.62	-225.86	1,187.50	1,133.19	54.31	21.864			
7,450.00	7,437.60	7,560.30	7,436.66	26.62	33.12	89.90	1,170.71	-246.03	1,187.50	1,132.76	54.74	21.692			
7,500.00	7,481.32	7,610.12	7,480.27	26.85	33.30	89.90	1,170.82	-270.09	1,187.50	1,132.30	55.20	21.511			
7,550.00	7,522.76	7,659.95	7,521.64	27.09	33.47	89.91	1,170.94	-297.84	1,187.51	1,131.81	55.69	21.322			
7,600.00	7,561.61	7,709.79	7,560.44	27.36	33.66	89.92	1,171.08	-329.09	1,187.51	1,131.28	56.23	21.120			
7,650.00	7,597.57	7,759.64	7,596.40	27.65	33.86	89.92	1,171.23	-363.60	1,187.51	1,130.70	56.81	20.904			
7,700.00	7,630.37	7,809.50	7,629.22	27.96	34.07	89.93	1,171.39	-401.12	1,187.51	1,130.06	57.45	20.671			
7,750.00	7,659.76	7,859.38	7,658.67	28.32	34.30	89.94	1,171.57	-441.35	1,187.51	1,129.35	58.16	20.419			
7,800.00	7,685.51	7,909.28	7,684.52	28.71	34.55	89.95	1,171.76	-484.01	1,187.51	1,128.57	58.94	20.147			
7,850.00	7,707.43	7,959.19	7,706.57	29.14	34.82	89.96	1,171.95	-528.77	1,187.51	1,127.70	59.81	19.853			
7,900.00	7,725.35	8,009.11	7,724.64	29.62	35.14	89.96	1,172.16	-575.29	1,187.51	1,126.74	60.77	19.541			
7,950.00	7,739.14	8,059.06	7,738.60	30.14	35.49	89.97	1,172.37	-623.23	1,187.51	1,125.70	61.82	19.211			
8,000.00	7,748.69	8,109.02	7,748.34	30.71	35.88	89.98	1,172.58	-672.21	1,187.51	1,124.57	62.94	18.867			
8,050.00	7,753.92	8,158.99	7,753.77	31.31	36.31	89.99	1,172.80	-721.88	1,187.51	1,123.38	64.14	18.515			
8,085.13	7,755.00	8,194.12	7,755.00	31.75	36.64	90.00	1,172.95	-756.97	1,187.52	1,122.50	65.01	18.265			
8,100.00	7,755.00	8,208.99	7,755.00	31.94	36.79	90.00	1,173.02	-771.84	1,187.52	1,122.11	65.40	18.157			
8,200.00	7,755.00	8,308.99	7,755.00	33.33	37.87	90.00	1,173.46	-871.84	1,187.52	1,119.36	68.16	17.423			
8,300.00	7,755.00	8,408.99	7,755.00	34.87	39.13	90.00	1,173.90	-971.84	1,187.52	1,116.30	71.22	16.675			
8,400.00	7,755.00	8,508.99	7,755.00	36.54	40.55	90.00	1,174.34	-1,071.84	1,187.52	1,112.99	74.54	15.932			
8,500.00	7,755.00	8,608.99	7,755.00	38.33	42.11	90.00	1,174.77	-1,171.84	1,187.53	1,109.44	78.09	15.207			
8,600.00	7,755.00	8,708.99	7,754.99	40.22	43.80	90.00	1,175.21	-1,271.84	1,187.53	1,105.69	81.84	14.510			
8,700.00	7,755.00	8,808.99	7,754.99	42.19	45.59	90.00	1,175.65	-1,371.84	1,187.53	1,101.77	85.77	13.846			

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 5-6-6
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 5-6-6	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	7,755.00	8,908.99	7,754.99	44.24	47.48	90.00	1,176.09	-1,471.84	1,187.53	1,097.69	89.84	13.218		
8,900.00	7,755.00	9,008.99	7,754.99	46.36	49.45	90.00	1,176.53	-1,571.84	1,187.54	1,093.49	94.05	12.627		
9,000.00	7,755.00	9,108.99	7,754.99	48.54	51.49	90.00	1,176.97	-1,671.84	1,187.54	1,089.17	98.37	12.072		
9,100.00	7,755.00	9,208.99	7,754.99	50.76	53.59	90.00	1,177.41	-1,771.83	1,187.54	1,084.75	102.79	11.553		
9,200.00	7,755.00	9,308.99	7,754.99	53.03	55.75	90.00	1,177.85	-1,871.83	1,187.55	1,080.25	107.30	11.068		
9,300.00	7,755.00	9,408.99	7,754.99	55.33	57.95	90.00	1,178.29	-1,971.83	1,187.55	1,075.67	111.88	10.614		
9,400.00	7,755.00	9,508.99	7,754.98	57.67	60.20	90.00	1,178.72	-2,071.83	1,187.55	1,071.02	116.54	10.190		
9,500.00	7,755.00	9,608.99	7,754.98	60.03	62.48	90.00	1,179.16	-2,171.83	1,187.55	1,066.30	121.25	9.794		
9,600.00	7,755.00	9,708.99	7,754.98	62.43	64.80	90.00	1,179.60	-2,271.83	1,187.56	1,061.54	126.02	9.424		
9,700.00	7,755.00	9,808.99	7,754.98	64.84	67.14	90.00	1,180.04	-2,371.83	1,187.56	1,056.73	130.83	9.077		
9,800.00	7,755.00	9,908.99	7,754.98	67.28	69.51	90.00	1,180.48	-2,471.83	1,187.56	1,051.87	135.69	8.752		
9,900.00	7,755.00	10,008.99	7,754.98	69.74	71.91	90.00	1,180.92	-2,571.83	1,187.56	1,046.98	140.58	8.447		
10,000.00	7,755.00	10,108.99	7,754.98	72.21	74.32	90.00	1,181.36	-2,671.83	1,187.57	1,042.06	145.51	8.161		
10,100.00	7,755.00	10,208.99	7,754.98	74.70	76.75	90.00	1,181.80	-2,771.82	1,187.57	1,037.10	150.47	7.892		
10,200.00	7,755.00	10,308.99	7,754.98	77.20	79.20	90.00	1,182.24	-2,871.82	1,187.57	1,032.11	155.46	7.639		
10,300.00	7,755.00	10,408.99	7,754.97	79.71	81.67	90.00	1,182.67	-2,971.82	1,187.57	1,027.10	160.47	7.401		
10,400.00	7,755.00	10,508.99	7,754.97	82.24	84.15	90.00	1,183.11	-3,071.82	1,187.58	1,022.07	165.51	7.175		
10,500.00	7,755.00	10,608.99	7,754.97	84.77	86.64	90.00	1,183.55	-3,171.82	1,187.58	1,017.02	170.56	6.963		
10,600.00	7,755.00	10,708.99	7,754.97	87.32	89.15	90.00	1,183.99	-3,271.82	1,187.58	1,011.94	175.64	6.761		
10,700.00	7,755.00	10,808.99	7,754.97	89.87	91.66	90.00	1,184.43	-3,371.82	1,187.59	1,006.85	180.73	6.571		
10,800.00	7,755.00	10,908.99	7,754.97	92.43	94.19	90.00	1,184.87	-3,471.82	1,187.59	1,001.74	185.84	6.390		
10,900.00	7,755.00	11,008.99	7,754.97	95.00	96.72	90.00	1,185.31	-3,571.82	1,187.59	996.62	190.97	6.219		
11,000.00	7,755.00	11,108.99	7,754.97	97.57	99.26	90.00	1,185.75	-3,671.82	1,187.59	991.49	196.11	6.056		
11,100.00	7,755.00	11,208.99	7,754.96	100.15	101.82	90.00	1,186.19	-3,771.82	1,187.60	986.34	201.26	5.901		
11,200.00	7,755.00	11,308.99	7,754.96	102.74	104.37	90.00	1,186.62	-3,871.81	1,187.60	981.18	206.42	5.753		
11,300.00	7,755.00	11,408.99	7,754.96	105.33	106.94	90.00	1,187.06	-3,971.81	1,187.60	976.01	211.59	5.613		
11,400.00	7,755.00	11,508.99	7,754.96	107.92	109.51	90.00	1,187.50	-4,071.81	1,187.60	970.83	216.78	5.478		
11,500.00	7,755.00	11,608.99	7,754.96	110.52	112.08	90.00	1,187.94	-4,171.81	1,187.61	965.64	221.97	5.350		
11,600.00	7,755.00	11,708.99	7,754.96	113.13	114.66	90.00	1,188.38	-4,271.81	1,187.61	960.44	227.17	5.228		
11,700.00	7,755.00	11,808.99	7,754.96	115.74	117.25	90.00	1,188.82	-4,371.81	1,187.61	955.23	232.38	5.111		
11,800.00	7,755.00	11,908.99	7,754.96	118.35	119.84	90.00	1,189.26	-4,471.81	1,187.61	950.02	237.60	4.998		
11,900.00	7,755.00	12,008.99	7,754.95	120.96	122.44	90.00	1,189.70	-4,571.81	1,187.62	944.79	242.82	4.891		
12,000.00	7,755.00	12,108.99	7,754.95	123.58	125.04	90.00	1,190.14	-4,671.81	1,187.62	939.57	248.05	4.788		
12,100.00	7,755.00	12,208.99	7,754.95	126.20	127.64	90.00	1,190.57	-4,771.81	1,187.62	934.33	253.29	4.689		
12,200.00	7,755.00	12,308.99	7,754.95	128.83	130.24	90.00	1,191.01	-4,871.80	1,187.63	929.09	258.53	4.594		
12,300.00	7,755.00	12,408.99	7,754.95	131.46	132.85	90.00	1,191.45	-4,971.80	1,187.63	923.85	263.78	4.502		
12,400.00	7,755.00	12,508.99	7,754.95	134.09	135.47	90.00	1,191.89	-5,071.80	1,187.63	918.59	269.04	4.414		
12,500.00	7,755.00	12,608.99	7,754.95	136.72	138.08	90.00	1,192.33	-5,171.80	1,187.63	913.34	274.29	4.330		
12,600.00	7,755.00	12,708.99	7,754.95	139.35	140.70	90.00	1,192.77	-5,271.80	1,187.64	908.08	279.56	4.248		
12,700.00	7,755.00	12,808.99	7,754.95	141.99	143.32	90.00	1,193.21	-5,371.80	1,187.64	902.81	284.83	4.170		
12,800.00	7,755.00	12,908.99	7,754.94	144.63	145.95	90.00	1,193.65	-5,471.80	1,187.64	897.54	290.10	4.094		
12,900.00	7,755.00	13,008.99	7,754.94	147.27	148.57	90.00	1,194.09	-5,571.80	1,187.64	892.27	295.37	4.021		
13,000.00	7,754.99	13,108.99	7,754.94	149.91	151.20	90.00	1,194.52	-5,671.80	1,187.65	887.00	300.65	3.950		
13,100.00	7,754.99	13,208.99	7,754.94	152.55	153.83	90.00	1,194.96	-5,771.80	1,187.65	881.72	305.93	3.882		
13,200.00	7,754.99	13,308.99	7,754.94	155.20	156.47	90.00	1,195.40	-5,871.80	1,187.65	876.43	311.22	3.816		
13,300.00	7,754.99	13,408.99	7,754.94	157.84	159.10	90.00	1,195.84	-5,971.79	1,187.65	871.15	316.51	3.752		
13,400.00	7,754.99	13,508.99	7,754.94	160.49	161.74	90.00	1,196.28	-6,071.79	1,187.66	865.86	321.80	3.691		
13,500.00	7,754.99	13,608.99	7,754.94	163.14	164.38	90.00	1,196.72	-6,171.79	1,187.66	860.56	327.10	3.631		
13,600.00	7,754.99	13,708.99	7,754.93	165.79	167.02	90.00	1,197.16	-6,271.79	1,187.66	855.27	332.39	3.573		
13,700.00	7,754.99	13,808.99	7,754.93	168.44	169.66	90.00	1,197.60	-6,371.79	1,187.67	849.97	337.69	3.517		
13,800.00	7,754.99	13,908.99	7,754.93	171.10	172.30	90.00	1,198.04	-6,471.79	1,187.67	844.67	343.00	3.463		
13,900.00	7,754.99	14,008.99	7,754.93	173.75	174.95	90.00	1,198.47	-6,571.79	1,187.67	839.37	348.30	3.410		

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 5-6-6
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 5-6-6	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			
14,000.00	7,754.99	14,108.99	7,754.93	176.41	177.59	90.00	1,198.91	-6,671.79	1,187.67	834.06	353.61	3.359			
14,100.00	7,754.99	14,208.99	7,754.93	179.06	180.24	90.00	1,199.35	-6,771.79	1,187.68	828.76	358.92	3.309			
14,200.00	7,754.99	14,308.99	7,754.93	181.72	182.89	90.00	1,199.79	-6,871.79	1,187.68	823.45	364.23	3.261			
14,300.00	7,754.99	14,408.99	7,754.93	184.38	185.54	90.00	1,200.23	-6,971.78	1,187.68	818.14	369.54	3.214			
14,400.00	7,754.99	14,508.99	7,754.92	187.04	188.19	90.00	1,200.67	-7,071.78	1,187.68	812.82	374.86	3.168			
14,500.00	7,754.99	14,608.99	7,754.92	189.70	190.84	90.00	1,201.11	-7,171.78	1,187.69	807.51	380.18	3.124			
14,600.00	7,754.99	14,708.99	7,754.92	192.36	193.49	90.00	1,201.55	-7,271.78	1,187.69	802.19	385.49	3.081			
14,700.00	7,754.99	14,808.99	7,754.92	195.02	196.15	90.00	1,201.99	-7,371.78	1,187.69	796.88	390.82	3.039			
14,800.00	7,754.99	14,908.99	7,754.92	197.68	198.80	90.00	1,202.42	-7,471.78	1,187.69	791.56	396.14	2.998			
14,900.00	7,754.99	15,008.99	7,754.92	200.34	201.46	90.00	1,202.86	-7,571.78	1,187.70	786.24	401.46	2.958			
15,000.00	7,754.99	15,108.99	7,754.92	203.01	204.11	90.00	1,203.30	-7,671.78	1,187.70	780.91	406.79	2.920			
15,100.00	7,754.99	15,208.99	7,754.92	205.67	206.77	90.00	1,203.74	-7,771.78	1,187.70	775.59	412.11	2.882			
15,200.00	7,754.99	15,308.99	7,754.92	208.34	209.43	90.00	1,204.18	-7,871.78	1,187.71	770.26	417.44	2.845			
15,300.00	7,754.99	15,408.99	7,754.91	211.00	212.09	90.00	1,204.62	-7,971.78	1,187.71	764.94	422.77	2.809			
15,400.00	7,754.99	15,508.99	7,754.91	213.67	214.75	90.00	1,205.06	-8,071.77	1,187.71	759.61	428.10	2.774			
15,500.00	7,754.99	15,608.99	7,754.91	216.34	217.41	90.00	1,205.50	-8,171.77	1,187.71	754.28	433.43	2.740			
15,600.00	7,754.99	15,708.99	7,754.91	219.00	220.07	90.00	1,205.94	-8,271.77	1,187.72	748.95	438.77	2.707			
15,700.00	7,754.99	15,808.99	7,754.91	221.67	222.73	90.00	1,206.37	-8,371.77	1,187.72	743.62	444.10	2.674			
15,800.00	7,754.99	15,908.99	7,754.91	224.34	225.39	90.00	1,206.81	-8,471.77	1,187.72	738.29	449.43	2.643			
15,900.00	7,754.99	16,008.99	7,754.91	227.01	228.06	90.00	1,207.25	-8,571.77	1,187.72	732.95	454.77	2.612			
16,000.00	7,754.99	16,108.99	7,754.91	229.68	230.72	90.00	1,207.69	-8,671.77	1,187.73	727.62	460.11	2.581			
16,100.00	7,754.99	16,208.99	7,754.90	232.35	233.39	90.00	1,208.13	-8,771.77	1,187.73	722.28	465.45	2.552			
16,200.00	7,754.99	16,308.99	7,754.90	235.02	236.05	90.00	1,208.57	-8,871.77	1,187.73	716.95	470.78	2.523			
16,300.00	7,754.99	16,408.99	7,754.90	237.69	238.72	90.00	1,209.01	-8,971.77	1,187.73	711.61	476.12	2.495			
16,400.00	7,754.99	16,508.99	7,754.90	240.36	241.38	90.00	1,209.45	-9,071.76	1,187.74	706.27	481.47	2.467			
16,500.00	7,754.99	16,608.99	7,754.90	243.03	244.05	90.00	1,209.88	-9,171.76	1,187.74	700.93	486.81	2.440			
16,600.00	7,754.99	16,708.99	7,754.90	245.71	246.72	90.00	1,210.32	-9,271.76	1,187.74	695.59	492.15	2.413			
16,700.00	7,754.99	16,808.99	7,754.90	248.38	249.39	90.00	1,210.76	-9,371.76	1,187.74	690.25	497.49	2.387			
16,800.00	7,754.99	16,908.99	7,754.90	251.05	252.05	90.00	1,211.20	-9,471.76	1,187.75	684.91	502.84	2.362			
16,900.00	7,754.99	17,008.99	7,754.90	253.72	254.72	90.00	1,211.64	-9,571.76	1,187.75	679.57	508.18	2.337			
17,000.00	7,754.99	17,108.99	7,754.89	256.40	257.39	90.00	1,212.08	-9,671.76	1,187.75	674.23	513.53	2.313			
17,100.00	7,754.99	17,208.99	7,754.89	259.07	260.06	90.00	1,212.52	-9,771.76	1,187.76	668.88	518.87	2.289			
17,200.00	7,754.99	17,308.99	7,754.89	261.75	262.73	90.00	1,212.96	-9,871.76	1,187.76	663.54	524.22	2.266			
17,300.00	7,754.99	17,408.99	7,754.89	264.42	265.40	90.00	1,213.40	-9,971.76	1,187.76	658.19	529.57	2.243			
17,400.00	7,754.99	17,508.99	7,754.89	267.10	268.07	90.00	1,213.83	-10,071.75	1,187.76	652.85	534.92	2.220			
17,500.00	7,754.99	17,608.99	7,754.89	269.77	270.74	90.00	1,214.27	-10,171.75	1,187.77	647.50	540.27	2.198			
17,600.00	7,754.99	17,708.99	7,754.89	272.45	273.42	90.00	1,214.71	-10,271.75	1,187.77	642.15	545.61	2.177			
17,700.00	7,754.99	17,812.76	7,754.90	275.12	276.19	90.00	1,215.13	-10,375.52	1,187.74	636.71	551.03	2.155			
17,768.61	7,755.00	17,881.37	7,755.00	276.96	278.02	90.00	1,215.21	-10,444.13	1,187.52	632.82	554.70	2.141 SF			

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	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		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	33.75	33.75	32.05	1.70	19.821		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	33.75	33.75	31.33	2.42	13.948		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	33.75	33.75	30.61	3.14	10.760		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	33.75	33.75	29.90	3.85	8.758		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	33.75	33.75	29.18	4.57	7.384		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	33.75	33.75	28.46	5.29	6.383		
900.00	900.00	900.28	900.26	3.00	3.00	87.09	1.69	33.27	33.32	27.31	6.00	5.549		
1,000.00	1,000.00	1,000.32	1,000.15	3.36	3.36	78.06	6.74	31.84	32.55	25.83	6.72	4.843		
1,029.38	1,029.38	1,029.63	1,029.38	3.47	3.47	74.19	8.85	31.24	32.47	25.54	6.93	4.684	CC, ES	
1,100.00	1,100.00	1,099.87	1,099.32	3.72	3.72	62.90	15.09	29.48	33.12	25.68	7.44	4.452		
1,200.00	1,200.00	1,201.14	1,197.59	4.08	4.10	44.63	26.57	26.23	37.41	29.25	8.16	4.583		
1,292.85	1,292.83	1,309.06	1,288.88	4.40	4.50	127.63	38.08	22.96	45.55	36.67	8.88	5.131		
1,300.00	1,299.98	1,301.97	1,295.92	4.43	4.48	127.00	38.97	22.71	46.31	37.44	8.87	5.218		
1,400.00	1,399.93	1,402.79	1,394.25	4.77	4.86	119.97	51.38	19.20	57.46	47.88	9.58	5.997		
1,500.00	1,499.87	1,503.61	1,492.59	5.12	5.26	115.26	63.78	15.68	69.18	58.89	10.29	6.722		
1,600.00	1,599.82	1,604.44	1,590.92	5.46	5.65	111.93	76.19	12.17	81.23	70.22	11.01	7.380		
1,700.00	1,699.77	1,705.26	1,689.26	5.81	6.05	109.47	88.60	8.65	93.48	81.75	11.72	7.973		
1,800.00	1,799.72	1,806.08	1,787.59	6.16	6.45	107.57	101.00	5.14	105.86	93.41	12.44	8.507		
1,900.00	1,899.66	1,906.91	1,885.93	6.52	6.85	106.08	113.41	1.63	118.33	105.16	13.17	8.988		
2,000.00	1,999.61	2,007.73	1,984.26	6.87	7.26	104.87	125.82	-1.89	130.86	116.97	13.89	9.423		
2,100.00	2,099.56	2,108.55	2,082.60	7.22	7.67	103.87	138.22	-5.40	143.44	128.83	14.61	9.816		
2,200.00	2,199.51	2,209.38	2,180.93	7.58	8.07	103.04	150.63	-8.92	156.06	140.72	15.34	10.174		
2,300.00	2,299.45	2,289.80	2,279.27	7.94	8.40	102.32	163.04	-12.43	168.71	152.72	15.99	10.551		
2,400.00	2,399.40	2,388.98	2,377.60	8.29	8.80	101.71	175.44	-15.94	181.38	164.67	16.71	10.854		
2,500.00	2,499.35	2,488.16	2,475.94	8.65	9.21	101.18	187.85	-19.46	194.06	176.63	17.43	11.132		
2,600.00	2,599.30	2,587.33	2,574.28	9.01	9.61	100.71	200.26	-22.97	206.76	188.60	18.16	11.388		
2,700.00	2,699.24	2,686.51	2,672.61	9.37	10.01	100.30	212.66	-26.49	219.47	200.59	18.88	11.625		
2,800.00	2,799.19	2,785.69	2,770.95	9.72	10.42	99.93	225.07	-30.00	232.19	212.59	19.60	11.844		
2,900.00	2,899.14	2,884.86	2,869.28	10.08	10.82	99.60	237.48	-33.52	244.92	224.60	20.33	12.048		
3,000.00	2,999.09	2,984.04	2,967.62	10.44	11.23	99.31	249.88	-37.03	257.66	236.61	21.05	12.238		
3,100.00	3,099.03	3,083.22	3,065.95	10.80	11.64	99.04	262.29	-40.54	270.41	248.63	21.78	12.416		
3,200.00	3,198.98	3,182.40	3,164.29	11.16	12.04	98.79	274.70	-44.06	283.15	260.65	22.50	12.582		
3,300.00	3,298.93	3,281.57	3,262.62	11.52	12.45	98.57	287.10	-47.57	295.91	272.68	23.23	12.738		
3,400.00	3,398.88	3,380.75	3,360.96	11.88	12.86	98.36	299.51	-51.09	308.67	284.71	23.96	12.884		
3,500.00	3,498.82	3,479.93	3,459.29	12.24	13.27	98.18	311.92	-54.60	321.43	296.74	24.68	13.022		
3,600.00	3,598.77	3,579.10	3,557.63	12.60	13.67	98.00	324.32	-58.12	334.19	308.78	25.41	13.151		
3,700.00	3,698.72	3,678.28	3,655.96	12.96	14.08	97.84	336.73	-61.63	346.96	320.82	26.14	13.274		
3,800.00	3,798.67	3,777.46	3,754.30	13.32	14.49	97.69	349.14	-65.14	359.73	332.86	26.87	13.390		
3,900.00	3,898.61	3,876.64	3,852.63	13.68	14.90	97.55	361.54	-68.66	372.50	344.91	27.59	13.500		
4,000.00	3,998.56	3,975.81	3,950.97	14.04	15.31	97.42	373.95	-72.17	385.27	356.95	28.32	13.604		
4,100.00	4,098.51	4,074.99	4,049.30	14.40	15.72	97.30	386.36	-75.69	398.05	369.00	29.05	13.703		
4,200.00	4,198.46	4,174.17	4,147.64	14.76	16.12	97.18	398.76	-79.20	410.83	381.05	29.78	13.797		
4,300.00	4,298.40	4,273.34	4,245.97	15.13	16.53	97.07	411.17	-82.71	423.61	393.10	30.50	13.886		
4,400.00	4,398.35	4,372.52	4,344.31	15.49	16.94	96.97	423.58	-86.23	436.39	405.15	31.23	13.972		
4,500.00	4,498.30	4,471.70	4,442.64	15.85	17.35	96.88	435.98	-89.74	449.17	417.21	31.96	14.053		
4,600.00	4,598.25	4,570.88	4,540.98	16.21	17.76	96.79	448.39	-93.26	461.95	429.26	32.69	14.131		
4,700.00	4,698.19	4,670.05	4,639.32	16.57	18.17	96.70	460.79	-96.77	474.73	441.31	33.42	14.205		
4,800.00	4,798.14	4,769.23	4,737.65	16.93	18.58	96.62	473.20	-100.29	487.52	453.37	34.15	14.277		
4,900.00	4,898.09	4,868.41	4,835.99	17.29	18.99	96.54	485.61	-103.80	500.30	465.43	34.88	14.345		

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 5-6-6
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 5-6-6	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	4,998.04	4,967.58	4,934.32	17.66	19.40	96.47	498.01	-107.31	513.09	477.48	35.61	14.410		
5,100.00	5,097.98	5,066.76	5,032.66	18.02	19.81	96.40	510.42	-110.83	525.88	489.54	36.34	14.473		
5,200.00	5,197.93	5,165.94	5,130.99	18.38	20.22	96.34	522.83	-114.34	538.67	501.60	37.06	14.533		
5,300.00	5,297.88	5,265.11	5,229.33	18.74	20.63	96.27	535.23	-117.86	551.45	513.66	37.79	14.591		
5,400.00	5,397.83	5,364.29	5,327.66	19.10	21.04	96.21	547.64	-121.37	564.24	525.72	38.52	14.647		
5,500.00	5,497.77	5,463.47	5,426.00	19.46	21.45	96.15	560.05	-124.88	577.03	537.78	39.25	14.701		
5,600.00	5,597.72	5,562.65	5,524.33	19.83	21.86	96.10	572.45	-128.40	589.82	549.84	39.98	14.752		
5,700.00	5,697.67	5,661.82	5,622.67	20.19	22.27	96.05	584.86	-131.91	602.62	561.90	40.71	14.802		
5,800.00	5,797.62	5,761.00	5,721.00	20.55	22.68	96.00	597.27	-135.43	615.41	573.97	41.44	14.850		
5,900.00	5,897.56	5,860.18	5,819.34	20.91	23.09	95.95	609.67	-138.94	628.20	586.03	42.17	14.896		
6,000.00	5,997.51	5,959.35	5,917.67	21.27	23.50	95.90	622.08	-142.46	640.99	598.09	42.90	14.941		
6,100.00	6,097.46	6,058.53	6,016.01	21.64	23.91	95.86	634.49	-145.97	653.78	610.15	43.63	14.984		
6,200.00	6,197.41	6,157.71	6,114.34	22.00	24.32	95.81	646.89	-149.48	666.58	622.22	44.36	15.026		
6,300.00	6,297.35	6,256.89	6,212.68	22.36	24.73	95.77	659.30	-153.00	679.37	634.28	45.09	15.067		
6,400.00	6,397.30	6,356.06	6,311.01	22.72	25.14	95.73	671.71	-156.51	692.16	646.34	45.82	15.106		
6,500.00	6,497.25	6,455.24	6,409.35	23.08	25.55	95.69	684.11	-160.03	704.96	658.41	46.55	15.144		
6,600.00	6,597.20	6,554.42	6,507.69	23.45	25.96	95.66	696.52	-163.54	717.75	670.47	47.28	15.180		
6,700.00	6,697.14	6,653.59	6,606.02	23.81	26.37	95.62	708.93	-167.06	730.55	682.54	48.01	15.216		
6,800.00	6,797.09	6,752.77	6,704.36	24.17	26.78	95.59	721.33	-170.57	743.34	694.60	48.74	15.251		
6,900.00	6,897.04	6,851.95	6,802.69	24.53	27.19	95.55	733.74	-174.08	756.14	706.67	49.47	15.284		
7,000.00	6,996.99	6,951.13	6,901.03	24.90	27.60	95.52	746.15	-177.60	768.93	718.73	50.20	15.317		
7,062.22	7,059.17	7,013.43	6,962.80	25.12	27.86	95.50	753.94	-179.80	776.89	726.23	50.66	15.335		
7,100.00	7,096.94	7,064.20	7,013.20	25.26	28.06	95.56	759.82	-181.47	781.36	730.33	51.03	15.312		
7,155.06	7,152.00	7,138.53	7,087.17	25.45	28.35	0.42	766.88	-183.47	786.63	735.10	51.53	15.264		
7,185.06	7,182.00	7,179.18	7,127.69	25.55	28.51	0.35	769.96	-184.34	788.90	737.10	51.80	15.231		
7,200.00	7,196.94	7,199.45	7,147.91	25.61	28.58	90.00	771.29	-184.72	789.88	737.95	51.92	15.212		
7,250.00	7,246.80	7,267.28	7,215.65	25.79	28.82	90.01	774.74	-185.70	792.42	740.06	52.35	15.136		
7,300.00	7,296.17	7,334.54	7,282.88	25.98	29.05	90.59	776.63	-186.23	793.87	741.10	52.77	15.043		
7,350.00	7,344.67	7,396.34	7,344.67	26.19	29.25	91.59	777.05	-186.35	794.44	741.26	53.18	14.939		
7,400.00	7,391.93	7,445.69	7,394.01	26.40	29.41	92.63	777.05	-187.19	795.03	741.45	53.58	14.837		
7,450.00	7,437.60	7,497.33	7,445.38	26.62	29.57	93.71	777.08	-192.30	795.95	741.95	54.00	14.740		
7,500.00	7,481.32	7,550.63	7,497.69	26.85	29.76	94.77	777.12	-202.41	797.15	742.72	54.43	14.645		
7,550.00	7,522.76	7,605.71	7,550.52	27.09	29.95	95.82	777.19	-217.90	798.62	743.74	54.88	14.552		
7,600.00	7,561.61	7,662.68	7,603.34	27.36	30.16	96.84	777.28	-239.19	800.31	744.97	55.35	14.460		
7,650.00	7,597.57	7,721.65	7,655.51	27.65	30.38	97.83	777.40	-266.63	802.17	746.34	55.83	14.368		
7,700.00	7,630.37	7,782.69	7,706.24	27.96	30.63	98.77	777.55	-300.53	804.14	747.80	56.34	14.273		
7,750.00	7,659.76	7,845.83	7,754.61	28.32	30.89	99.65	777.73	-341.06	806.14	749.26	56.88	14.173		
7,800.00	7,685.51	7,911.05	7,799.59	28.71	31.20	100.45	777.93	-388.24	808.10	750.62	57.47	14.060		
7,850.00	7,707.43	7,978.27	7,840.02	29.14	31.55	101.17	778.17	-441.89	809.92	751.78	58.14	13.930		
7,900.00	7,725.35	8,047.32	7,874.72	29.62	31.97	101.78	778.43	-501.54	811.53	752.63	58.90	13.778		
7,950.00	7,739.14	8,117.94	7,902.54	30.14	32.49	102.26	778.71	-566.40	812.85	753.06	59.79	13.595		
8,000.00	7,748.69	8,189.80	7,922.44	30.71	33.11	102.60	779.01	-635.41	813.81	752.98	60.82	13.380		
8,050.00	7,753.92	8,262.49	7,933.62	31.31	33.83	102.80	779.33	-707.18	814.35	752.34	62.01	13.132		
8,085.13	7,755.00	8,313.81	7,936.00	31.75	34.40	102.84	779.55	-758.42	814.48	751.54	62.94	12.941		
8,100.00	7,755.00	8,328.97	7,936.00	31.94	34.58	102.84	779.62	-773.59	814.48	751.16	63.31	12.864		
8,200.00	7,755.00	8,428.97	7,936.00	33.33	35.84	102.84	780.05	-873.58	814.48	748.49	65.99	12.343		
8,300.00	7,755.00	8,528.97	7,936.00	34.87	37.25	102.84	780.49	-973.58	814.48	745.52	68.95	11.812		
8,400.00	7,755.00	8,628.97	7,936.00	36.54	38.81	102.84	780.93	-1,073.58	814.48	742.30	72.18	11.284		
8,500.00	7,755.00	8,728.97	7,936.00	38.33	40.50	102.84	781.37	-1,173.58	814.48	738.85	75.63	10.769		
8,600.00	7,755.00	8,828.97	7,936.00	40.22	42.29	102.84	781.80	-1,273.58	814.48	735.20	79.28	10.273		
8,700.00	7,755.00	8,928.97	7,936.00	42.19	44.18	102.84	782.24	-1,373.58	814.48	731.37	83.11	9.800		
8,800.00	7,755.00	9,028.97	7,936.00	44.24	46.15	102.84	782.68	-1,473.58	814.48	727.40	87.08	9.353		

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 5-6-6
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 5-6-6	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	7,755.00	9,128.97	7,936.00	46.36	48.19	102.84	783.11	-1,573.58	814.48	723.30	91.18	8.933		
9,000.00	7,755.00	9,228.97	7,936.00	48.54	50.29	102.84	783.55	-1,673.58	814.48	719.09	95.40	8.538		
9,100.00	7,755.00	9,328.97	7,936.00	50.76	52.45	102.84	783.99	-1,773.58	814.48	714.77	99.71	8.168		
9,200.00	7,755.00	9,428.97	7,935.99	53.03	54.66	102.84	784.43	-1,873.58	814.49	710.37	104.11	7.823		
9,300.00	7,755.00	9,528.97	7,935.99	55.33	56.91	102.84	784.86	-1,973.57	814.49	705.90	108.59	7.501		
9,400.00	7,755.00	9,628.97	7,935.99	57.67	59.19	102.84	785.30	-2,073.57	814.49	701.36	113.13	7.199		
9,500.00	7,755.00	9,728.97	7,935.99	60.03	61.51	102.84	785.74	-2,173.57	814.49	696.75	117.73	6.918		
9,600.00	7,755.00	9,828.97	7,935.99	62.43	63.86	102.84	786.17	-2,273.57	814.49	692.10	122.39	6.655		
9,700.00	7,755.00	9,928.97	7,935.99	64.84	66.24	102.84	786.61	-2,373.57	814.49	687.40	127.09	6.409		
9,800.00	7,755.00	10,028.97	7,935.99	67.28	68.64	102.84	787.05	-2,473.57	814.49	682.66	131.83	6.178		
9,900.00	7,755.00	10,128.97	7,935.99	69.74	71.06	102.84	787.49	-2,573.57	814.49	677.87	136.62	5.962		
10,000.00	7,755.00	10,228.97	7,935.99	72.21	73.50	102.84	787.92	-2,673.57	814.49	673.06	141.43	5.759		
10,100.00	7,755.00	10,328.97	7,935.99	74.70	75.95	102.84	788.36	-2,773.57	814.49	668.22	146.28	5.568		
10,200.00	7,755.00	10,428.97	7,935.99	77.20	78.42	102.84	788.80	-2,873.57	814.49	663.35	151.15	5.389		
10,300.00	7,755.00	10,528.97	7,935.99	79.71	80.91	102.84	789.23	-2,973.56	814.49	658.45	156.04	5.220		
10,400.00	7,755.00	10,628.97	7,935.99	82.24	83.41	102.84	789.67	-3,073.56	814.49	653.53	160.96	5.060		
10,500.00	7,755.00	10,728.97	7,935.99	84.77	85.92	102.84	790.11	-3,173.56	814.50	648.59	165.90	4.909		
10,600.00	7,755.00	10,828.97	7,935.99	87.32	88.44	102.84	790.54	-3,273.56	814.50	643.63	170.86	4.767		
10,700.00	7,755.00	10,928.97	7,935.99	89.87	90.97	102.84	790.98	-3,373.56	814.50	638.66	175.84	4.632		
10,800.00	7,755.00	11,028.97	7,935.99	92.43	93.51	102.84	791.42	-3,473.56	814.50	633.67	180.83	4.504		
10,900.00	7,755.00	11,128.97	7,935.99	95.00	96.05	102.84	791.86	-3,573.56	814.50	628.66	185.84	4.383		
11,000.00	7,755.00	11,228.97	7,935.99	97.57	98.61	102.84	792.29	-3,673.56	814.50	623.64	190.86	4.268		
11,100.00	7,755.00	11,328.97	7,935.99	100.15	101.17	102.84	792.73	-3,773.56	814.50	618.61	195.89	4.158		
11,200.00	7,755.00	11,428.97	7,935.99	102.74	103.74	102.84	793.17	-3,873.56	814.50	613.57	200.93	4.054		
11,300.00	7,755.00	11,528.97	7,935.98	105.33	106.31	102.84	793.60	-3,973.56	814.50	608.52	205.98	3.959		
11,400.00	7,755.00	11,628.97	7,935.98	107.92	108.90	102.84	794.04	-4,073.55	814.50	603.45	211.05	3.854		
11,500.00	7,755.00	11,728.97	7,935.98	110.52	111.48	102.84	794.48	-4,173.55	814.50	598.38	216.12	3.769		
11,600.00	7,755.00	11,828.97	7,935.98	113.13	114.07	102.84	794.92	-4,273.55	814.50	593.30	221.20	3.682		
11,700.00	7,755.00	11,928.97	7,935.98	115.74	116.67	102.84	795.35	-4,373.55	814.51	588.21	226.29	3.599		
11,800.00	7,755.00	12,028.97	7,935.98	118.35	119.26	102.84	795.79	-4,473.55	814.51	583.12	231.39	3.520		
11,900.00	7,755.00	12,128.97	7,935.98	120.96	121.87	102.84	796.23	-4,573.55	814.51	578.02	236.49	3.444		
12,000.00	7,755.00	12,228.97	7,935.98	123.58	124.47	102.84	796.66	-4,673.55	814.51	572.91	241.60	3.371		
12,100.00	7,755.00	12,328.97	7,935.98	126.20	127.08	102.84	797.10	-4,773.55	814.51	567.79	246.72	3.301		
12,200.00	7,755.00	12,428.97	7,935.98	128.83	129.70	102.84	797.54	-4,873.55	814.51	562.67	251.84	3.234		
12,300.00	7,755.00	12,528.97	7,935.98	131.46	132.31	102.84	797.98	-4,973.55	814.51	557.55	256.96	3.170		
12,400.00	7,755.00	12,628.97	7,935.98	134.09	134.93	102.84	798.41	-5,073.54	814.51	552.41	262.10	3.108		
12,500.00	7,755.00	12,728.97	7,935.98	136.72	137.56	102.84	798.85	-5,173.54	814.51	547.28	267.23	3.048		
12,600.00	7,755.00	12,828.97	7,935.98	139.35	140.18	102.84	799.29	-5,273.54	814.51	542.14	272.37	2.990		
12,700.00	7,755.00	12,928.97	7,935.98	141.99	142.81	102.84	799.72	-5,373.54	814.51	536.99	277.52	2.935		
12,800.00	7,755.00	13,028.97	7,935.98	144.63	145.44	102.84	800.16	-5,473.54	814.51	531.85	282.67	2.882		
12,900.00	7,755.00	13,128.97	7,935.98	147.27	148.07	102.84	800.60	-5,573.54	814.51	526.69	287.82	2.830		
13,000.00	7,754.99	13,228.97	7,935.98	149.91	150.70	102.84	801.04	-5,673.54	814.52	521.54	292.98	2.780		
13,100.00	7,754.99	13,328.97	7,935.98	152.55	153.34	102.84	801.47	-5,773.54	814.52	516.38	298.14	2.732		
13,200.00	7,754.99	13,428.97	7,935.98	155.20	155.98	102.84	801.91	-5,873.54	814.52	511.21	303.30	2.685		
13,300.00	7,754.99	13,528.97	7,935.97	157.84	158.62	102.84	802.35	-5,973.54	814.52	506.05	308.47	2.641		
13,400.00	7,754.99	13,628.97	7,935.97	160.49	161.26	102.84	802.78	-6,073.54	814.52	500.88	313.64	2.597		
13,500.00	7,754.99	13,728.97	7,935.97	163.14	163.90	102.84	803.22	-6,173.53	814.52	495.71	318.81	2.555		
13,600.00	7,754.99	13,828.97	7,935.97	165.79	166.54	102.84	803.66	-6,273.53	814.52	490.54	323.99	2.514		
13,700.00	7,754.99	13,928.97	7,935.97	168.44	169.19	102.84	804.10	-6,373.53	814.52	485.36	329.16	2.475		
13,800.00	7,754.99	14,028.97	7,935.97	171.10	171.84	102.84	804.53	-6,473.53	814.52	480.18	334.34	2.436		
13,900.00	7,754.99	14,128.97	7,935.97	173.75	174.48	102.84	804.97	-6,573.53	814.52	475.00	339.52	2.399		
14,000.00	7,754.99	14,228.97	7,935.97	176.41	177.13	102.84	805.41	-6,673.53	814.52	469.82	344.71	2.363		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,754.99	14,328.97	7,935.97	179.06	179.78	102.84	805.84	-6,773.53	814.52	464.63	349.89	2.328		
14,200.00	7,754.99	14,428.97	7,935.97	181.72	182.44	102.84	806.28	-6,873.53	814.53	459.44	355.08	2.294		
14,300.00	7,754.99	14,528.97	7,935.97	184.38	185.09	102.84	806.72	-6,973.53	814.53	454.25	360.27	2.261		
14,400.00	7,754.99	14,628.97	7,935.97	187.04	187.74	102.84	807.16	-7,073.53	814.53	449.06	365.47	2.229		
14,500.00	7,754.99	14,728.97	7,935.97	189.70	190.40	102.84	807.59	-7,173.52	814.53	443.87	370.66	2.198		
14,600.00	7,754.99	14,828.97	7,935.97	192.36	193.05	102.84	808.03	-7,273.52	814.53	438.67	375.85	2.167		
14,700.00	7,754.99	14,928.97	7,935.97	195.02	195.71	102.84	808.47	-7,373.52	814.53	433.48	381.05	2.138		
14,800.00	7,754.99	15,028.97	7,935.97	197.68	198.37	102.84	808.90	-7,473.52	814.53	428.28	386.25	2.109		
14,900.00	7,754.99	15,128.97	7,935.97	200.34	201.03	102.84	809.34	-7,573.52	814.53	423.08	391.45	2.081		
15,000.00	7,754.99	15,228.97	7,935.97	203.01	203.69	102.84	809.78	-7,673.52	814.53	417.88	396.65	2.054		
15,100.00	7,754.99	15,328.97	7,935.97	205.67	206.35	102.84	810.22	-7,773.52	814.53	412.68	401.85	2.027		
15,200.00	7,754.99	15,428.97	7,935.97	208.34	209.01	102.84	810.65	-7,873.52	814.53	407.47	407.06	2.001		
15,300.00	7,754.99	15,528.97	7,935.97	211.00	211.67	102.84	811.09	-7,973.52	814.53	402.27	412.26	1.976		
15,400.00	7,754.99	15,628.97	7,935.96	213.67	214.33	102.84	811.53	-8,073.52	814.53	397.06	417.47	1.951		
15,500.00	7,754.99	15,728.97	7,935.96	216.34	216.99	102.84	811.96	-8,173.51	814.54	391.86	422.68	1.927		
15,600.00	7,754.99	15,828.97	7,935.96	219.00	219.66	102.84	812.40	-8,273.51	814.54	386.65	427.89	1.904		
15,700.00	7,754.99	15,928.97	7,935.96	221.67	222.32	102.84	812.84	-8,373.51	814.54	381.44	433.10	1.881		
15,800.00	7,754.99	16,028.97	7,935.96	224.34	224.99	102.84	813.28	-8,473.51	814.54	376.23	438.31	1.858		
15,900.00	7,754.99	16,128.97	7,935.96	227.01	227.65	102.84	813.71	-8,573.51	814.54	371.02	443.52	1.837		
16,000.00	7,754.99	16,228.97	7,935.96	229.68	230.32	102.84	814.15	-8,673.51	814.54	365.81	448.73	1.815		
16,100.00	7,754.99	16,328.97	7,935.96	232.35	232.98	102.84	814.59	-8,773.51	814.54	360.59	453.95	1.794		
16,200.00	7,754.99	16,428.97	7,935.96	235.02	235.65	102.84	815.02	-8,873.51	814.54	355.38	459.16	1.774		
16,300.00	7,754.99	16,528.97	7,935.96	237.69	238.32	102.84	815.46	-8,973.51	814.54	350.16	464.38	1.754		
16,400.00	7,754.99	16,628.97	7,935.96	240.36	240.99	102.84	815.90	-9,073.51	814.54	344.95	469.60	1.735		
16,500.00	7,754.99	16,728.97	7,935.96	243.03	243.66	102.84	816.34	-9,173.51	814.54	339.73	474.81	1.716		
16,600.00	7,754.99	16,828.97	7,935.96	245.71	246.33	102.84	816.77	-9,273.50	814.54	334.51	480.03	1.697		
16,700.00	7,754.99	16,928.97	7,935.96	248.38	249.00	102.84	817.21	-9,373.50	814.55	329.29	485.25	1.679		
16,800.00	7,754.99	17,028.97	7,935.96	251.05	251.67	102.84	817.65	-9,473.50	814.55	324.07	490.47	1.661		
16,900.00	7,754.99	17,128.97	7,935.96	253.72	254.34	102.84	818.08	-9,573.50	814.55	318.85	495.69	1.643		
17,000.00	7,754.99	17,228.97	7,935.96	256.40	257.01	102.84	818.52	-9,673.50	814.55	313.63	500.91	1.626		
17,100.00	7,754.99	17,328.97	7,935.96	259.07	259.68	102.84	818.96	-9,773.50	814.55	308.41	506.14	1.609		
17,200.00	7,754.99	17,428.97	7,935.96	261.75	262.35	102.84	819.40	-9,873.50	814.55	303.19	511.36	1.593		
17,300.00	7,754.99	17,528.97	7,935.96	264.42	265.02	102.84	819.83	-9,973.50	814.55	297.97	516.58	1.577		
17,400.00	7,754.99	17,628.97	7,935.95	267.10	267.69	102.84	820.27	-10,073.50	814.55	292.75	521.81	1.561		
17,500.00	7,754.99	17,728.97	7,935.95	269.77	270.37	102.84	820.71	-10,173.50	814.55	287.52	527.03	1.546		
17,600.00	7,754.99	17,828.97	7,935.95	272.45	273.04	102.84	821.14	-10,273.49	814.55	282.30	532.26	1.530		
17,700.00	7,754.99	17,929.57	7,935.97	275.12	275.73	102.84	821.56	-10,374.09	814.53	277.04	537.49	1.515		
17,768.61	7,755.00	17,998.18	7,936.00	276.96	277.56	102.84	821.80	-10,442.70	814.48	273.41	541.07	1.505 SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	16.87	16.87					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	16.87	16.87	16.61	0.27	62.766		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	16.87	16.87	15.89	0.99	17.118		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	16.87	16.87	15.17	1.70	9.910		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	16.87	16.87	14.46	2.42	6.974		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	16.87	16.87	13.74	3.14	5.380		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	16.87	16.87	13.02	3.85	4.379		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	16.87	16.87	12.30	4.57	3.692		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	16.87	16.87	11.59	5.29	3.192		
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	16.87	16.87	10.87	6.00	2.810		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.00	0.00	16.87	16.87	10.15	6.72	2.511		
1,100.00	1,100.00	1,100.24	1,100.22	3.72	3.72	84.50	1.55	16.05	16.12	8.69	7.44	2.168		
1,200.00	1,200.00	1,200.23	1,200.07	4.08	4.08	65.57	6.17	13.58	14.91	6.76	8.15	1.829		
1,207.02	1,207.02	1,207.23	1,207.05	4.10	4.10	158.82	6.61	13.34	14.90	6.69	8.20	1.816 CC		
1,292.85	1,292.83	1,307.13	1,292.48	4.40	4.46	139.90	11.94	10.49	17.02	8.16	8.86	1.920		
1,300.00	1,299.98	1,300.01	1,299.60	4.43	4.44	138.80	12.38	10.25	17.35	8.49	8.86	1.958		
1,400.00	1,399.93	1,400.20	1,399.13	4.77	4.80	127.04	18.60	6.93	22.46	12.90	9.56	2.349		
1,500.00	1,499.87	1,500.42	1,498.67	5.12	5.16	119.82	24.82	3.60	28.17	17.90	10.27	2.743		
1,600.00	1,599.82	1,600.63	1,598.21	5.46	5.53	115.08	31.04	0.27	34.17	23.19	10.98	3.112		
1,700.00	1,699.77	1,700.84	1,697.75	5.81	5.90	111.77	37.25	-3.05	40.33	28.64	11.69	3.450		
1,800.00	1,799.72	1,801.06	1,797.29	6.16	6.26	109.35	43.47	-6.38	46.59	34.18	12.40	3.756		
1,900.00	1,899.66	1,901.27	1,896.82	6.52	6.63	107.50	49.69	-9.70	52.91	39.79	13.12	4.033		
2,000.00	1,999.61	2,001.48	1,996.36	6.87	7.00	106.04	55.91	-13.03	59.28	45.44	13.84	4.284		
2,100.00	2,099.56	2,101.69	2,095.90	7.22	7.37	104.87	62.13	-16.35	65.67	51.12	14.55	4.513		
2,200.00	2,199.51	2,201.91	2,195.44	7.58	7.74	103.91	68.34	-19.68	72.09	56.82	15.27	4.721		
2,300.00	2,299.45	2,302.12	2,294.97	7.94	8.12	103.10	74.56	-23.00	78.53	62.54	15.99	4.911		
2,400.00	2,399.40	2,402.33	2,394.51	8.29	8.49	102.42	80.78	-26.33	84.98	68.27	16.71	5.085		
2,500.00	2,499.35	2,502.55	2,494.05	8.65	8.86	101.83	87.00	-29.65	91.44	74.00	17.43	5.245		
2,600.00	2,599.30	2,602.76	2,593.59	9.01	9.23	101.32	93.21	-32.98	97.91	79.75	18.15	5.393		
2,700.00	2,699.24	2,702.97	2,693.12	9.37	9.61	100.88	99.43	-36.31	104.38	85.50	18.88	5.530		
2,800.00	2,799.19	2,803.18	2,792.66	9.72	9.98	100.48	105.65	-39.63	110.86	91.26	19.60	5.656		
2,900.00	2,899.14	2,903.40	2,892.20	10.08	10.35	100.13	111.87	-42.96	117.35	97.02	20.32	5.774		
3,000.00	2,999.09	2,996.39	2,991.74	10.44	10.70	99.82	118.09	-46.28	123.83	102.82	21.02	5.891		
3,100.00	3,099.03	3,103.82	3,091.27	10.80	11.10	99.54	124.30	-49.61	130.33	108.56	21.77	5.987		
3,200.00	3,198.98	3,204.04	3,190.81	11.16	11.47	99.28	130.52	-52.93	136.82	114.33	22.49	6.083		
3,300.00	3,298.93	3,304.25	3,290.35	11.52	11.85	99.05	136.74	-56.26	143.32	120.10	23.22	6.173		
3,400.00	3,398.88	3,404.46	3,389.89	11.88	12.22	98.84	142.96	-59.58	149.82	125.88	23.94	6.257		
3,500.00	3,498.82	3,504.68	3,489.43	12.24	12.59	98.64	149.17	-62.91	156.32	131.65	24.67	6.337		
3,600.00	3,598.77	3,604.89	3,588.96	12.60	12.97	98.46	155.39	-66.24	162.82	137.43	25.39	6.412		
3,700.00	3,698.72	3,705.10	3,688.50	12.96	13.34	98.30	161.61	-69.56	169.33	143.21	26.12	6.483		
3,800.00	3,798.67	3,805.31	3,788.04	13.32	13.72	98.14	167.83	-72.89	175.83	148.99	26.84	6.551		
3,900.00	3,898.61	3,905.53	3,887.58	13.68	14.09	98.00	174.04	-76.21	182.34	154.77	27.57	6.614		
4,000.00	3,998.56	4,005.74	3,987.11	14.04	14.47	97.87	180.26	-79.54	188.85	160.56	28.29	6.675		
4,100.00	4,098.51	4,094.05	4,086.65	14.40	14.80	97.75	186.48	-82.86	195.36	166.38	28.98	6.742		
4,200.00	4,198.46	4,206.17	4,186.19	14.76	15.22	97.63	192.70	-86.19	201.87	172.12	29.75	6.787		
4,300.00	4,298.40	4,306.38	4,285.73	15.13	15.59	97.52	198.92	-89.51	208.38	177.91	30.47	6.838		
4,400.00	4,398.35	4,393.41	4,385.26	15.49	15.92	97.42	205.13	-92.84	214.89	183.74	31.15	6.899		
4,500.00	4,498.30	4,506.80	4,484.80	15.85	16.34	97.33	211.35	-96.16	221.40	189.48	31.92	6.935		
4,600.00	4,598.25	4,607.02	4,584.34	16.21	16.71	97.23	217.57	-99.49	227.91	195.26	32.65	6.981		
4,700.00	4,698.19	4,707.23	4,683.88	16.57	17.09	97.15	223.79	-102.82	234.43	201.05	33.38	7.024		
4,800.00	4,798.14	4,792.56	4,783.41	16.93	17.41	97.07	230.00	-106.14	240.94	206.89	34.05	7.076		
4,900.00	4,898.09	4,907.66	4,882.95	17.29	17.84	96.99	236.22	-109.47	247.46	212.63	34.83	7.105		

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 5-6-6
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 5-6-6	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	4,998.04	5,007.87	4,982.49	17.66	18.21	96.92	242.44	-112.79	253.97	218.41	35.56	7.143		
5,100.00	5,097.98	5,108.08	5,082.03	18.02	18.59	96.85	248.66	-116.12	260.49	224.20	36.28	7.179		
5,200.00	5,197.93	5,191.71	5,181.57	18.38	18.90	96.79	254.87	-119.44	267.00	230.05	36.95	7.226		
5,300.00	5,297.88	5,308.51	5,281.10	18.74	19.34	96.72	261.09	-122.77	273.52	235.78	37.74	7.248		
5,400.00	5,397.83	5,408.72	5,380.64	19.10	19.72	96.66	267.31	-126.09	280.03	241.57	38.46	7.280		
5,500.00	5,497.77	5,508.93	5,480.18	19.46	20.09	96.61	273.53	-129.42	286.55	247.36	39.19	7.312		
5,600.00	5,597.72	5,609.15	5,579.72	19.83	20.47	96.55	279.75	-132.75	293.06	253.15	39.92	7.342		
5,700.00	5,697.67	5,709.36	5,679.25	20.19	20.84	96.50	285.96	-136.07	299.58	258.94	40.65	7.371		
5,800.00	5,797.62	5,809.57	5,778.79	20.55	21.22	96.45	292.18	-139.40	306.10	264.73	41.37	7.399		
5,900.00	5,897.56	5,890.22	5,878.33	20.91	21.52	96.40	298.40	-142.72	312.62	270.59	42.03	7.438		
6,000.00	5,997.51	6,010.00	5,977.87	21.27	21.97	96.36	304.62	-146.05	319.13	276.31	42.83	7.452		
6,100.00	6,097.46	6,089.79	6,077.40	21.64	22.27	96.31	310.83	-149.37	325.65	282.17	43.48	7.490		
6,200.00	6,197.41	6,189.58	6,176.94	22.00	22.64	96.27	317.05	-152.70	332.17	287.96	44.21	7.514		
6,300.00	6,297.35	6,289.36	6,276.48	22.36	23.01	96.23	323.27	-156.02	338.69	293.75	44.93	7.538		
6,400.00	6,397.30	6,389.15	6,376.02	22.72	23.39	96.19	329.49	-159.35	345.20	299.55	45.66	7.561		
6,500.00	6,497.25	6,488.94	6,475.55	23.08	23.76	96.15	335.71	-162.67	351.72	305.34	46.38	7.583		
6,600.00	6,597.20	6,588.72	6,575.09	23.45	24.14	96.12	341.92	-166.00	358.24	311.13	47.11	7.605		
6,700.00	6,697.14	6,688.51	6,674.63	23.81	24.51	96.08	348.14	-169.33	364.76	316.92	47.83	7.625		
6,800.00	6,797.09	6,788.30	6,774.17	24.17	24.88	96.05	354.36	-172.65	371.28	322.72	48.56	7.646		
6,900.00	6,897.04	6,888.09	6,873.71	24.53	25.26	96.02	360.58	-175.98	377.80	328.51	49.29	7.665		
7,000.00	6,996.99	6,987.87	6,973.24	24.90	25.63	95.99	366.79	-179.30	384.31	334.30	50.01	7.684		
7,062.22	7,059.17	7,049.96	7,035.17	25.12	25.86	95.97	370.66	-181.37	388.37	337.91	50.46	7.696		
7,100.00	7,096.94	7,087.66	7,072.78	25.26	26.00	95.97	373.01	-182.63	390.81	340.07	50.74	7.702		
7,155.06	7,152.00	7,148.64	7,133.64	25.45	26.23	0.69	376.42	-184.45	393.93	342.76	51.17	7.699		
7,185.06	7,182.00	7,182.73	7,167.68	25.55	26.35	0.58	377.84	-185.21	395.17	343.77	51.40	7.688		
7,200.00	7,196.94	7,199.71	7,184.66	25.61	26.42	90.26	378.42	-185.52	395.68	344.16	51.52	7.681		
7,250.00	7,246.80	7,256.47	7,241.40	25.79	26.62	90.62	379.69	-186.20	396.82	344.91	51.91	7.645		
7,300.00	7,296.17	7,312.63	7,297.55	25.98	26.81	91.82	379.98	-186.35	397.24	344.94	52.30	7.596		
7,350.00	7,344.67	7,361.01	7,345.92	26.19	26.98	93.35	380.00	-187.15	397.78	345.10	52.68	7.550		
7,400.00	7,391.93	7,412.30	7,396.95	26.40	27.16	94.98	380.02	-192.11	398.65	345.56	53.08	7.510		
7,450.00	7,437.60	7,464.75	7,448.47	26.62	27.36	96.58	380.07	-201.89	399.83	346.34	53.49	7.475		
7,500.00	7,481.32	7,518.41	7,500.01	26.85	27.57	98.14	380.13	-216.72	401.30	347.40	53.91	7.445		
7,550.00	7,522.76	7,573.32	7,551.10	27.09	27.79	99.65	380.22	-236.81	403.02	348.70	54.32	7.420		
7,600.00	7,561.61	7,629.52	7,601.14	27.36	28.02	101.09	380.33	-262.35	404.93	350.20	54.72	7.399		
7,650.00	7,597.57	7,687.03	7,649.50	27.65	28.28	102.44	380.47	-293.41	406.96	351.83	55.12	7.383		
7,700.00	7,630.37	7,745.82	7,695.47	27.96	28.57	103.70	380.63	-330.02	409.05	353.52	55.52	7.367		
7,750.00	7,659.76	7,805.88	7,738.30	28.32	28.89	104.85	380.81	-372.08	411.11	355.18	55.93	7.350		
7,800.00	7,685.51	7,867.13	7,777.21	28.71	29.27	105.87	381.02	-419.34	413.08	356.70	56.38	7.326		
7,850.00	7,707.43	7,929.47	7,811.41	29.14	29.71	106.74	381.24	-471.44	414.87	357.98	56.90	7.292		
7,900.00	7,725.35	7,992.79	7,840.14	29.62	30.22	107.47	381.49	-527.82	416.42	358.91	57.50	7.241		
7,950.00	7,739.14	8,056.90	7,862.71	30.14	30.81	108.03	381.75	-587.79	417.65	359.40	58.25	7.170		
8,000.00	7,748.69	8,121.62	7,878.57	30.71	31.49	108.41	382.03	-650.51	418.52	359.37	59.15	7.076		
8,050.00	7,753.92	8,186.72	7,887.28	31.31	32.23	108.61	382.31	-714.99	418.98	358.76	60.22	6.957		
8,085.13	7,755.00	8,232.57	7,889.00	31.75	32.78	108.65	382.51	-760.78	419.06	357.99	61.08	6.861		
8,088.83	7,755.00	8,237.39	7,888.97	31.80	32.84	108.64	382.53	-765.61	419.05	357.88	61.17	6.850		
8,100.00	7,755.00	8,247.10	7,889.00	31.94	32.97	108.65	382.57	-775.32	419.06	357.62	61.44	6.821		
8,200.00	7,755.00	8,347.10	7,889.00	33.33	34.34	108.65	383.01	-875.32	419.06	355.01	64.05	6.543		
8,300.00	7,755.00	8,447.10	7,889.00	34.87	35.84	108.65	383.45	-975.32	419.06	352.12	66.94	6.260		
8,400.00	7,755.00	8,547.10	7,889.00	36.54	37.48	108.65	383.88	-1,075.32	419.06	348.98	70.09	5.979		
8,500.00	7,755.00	8,647.10	7,889.00	38.33	39.23	108.65	384.32	-1,175.32	419.06	345.61	73.45	5.705		
8,600.00	7,755.00	8,747.10	7,889.00	40.22	41.09	108.65	384.76	-1,275.32	419.06	342.05	77.01	5.441		
8,700.00	7,755.00	8,847.10	7,889.00	42.19	43.03	108.65	385.19	-1,375.32	419.07	338.32	80.74	5.190		

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 5-6-6
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 5-6-6	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	7,755.00	8,947.10	7,889.00	44.24	45.05	108.65	385.63	-1,475.32	419.07	334.45	84.62	4.953		
8,900.00	7,755.00	9,047.10	7,889.00	46.36	47.14	108.65	386.07	-1,575.31	419.07	330.45	88.62	4.729		
9,000.00	7,755.00	9,147.10	7,889.00	48.54	49.29	108.65	386.50	-1,675.31	419.07	326.34	92.73	4.519		
9,100.00	7,755.00	9,247.10	7,889.00	50.76	51.48	108.65	386.94	-1,775.31	419.07	322.13	96.93	4.323		
9,200.00	7,755.00	9,347.10	7,889.00	53.03	53.73	108.65	387.38	-1,875.31	419.07	317.84	101.22	4.140		
9,300.00	7,755.00	9,447.10	7,889.00	55.33	56.01	108.65	387.81	-1,975.31	419.07	313.48	105.59	3.969		
9,400.00	7,755.00	9,547.10	7,889.00	57.67	58.33	108.65	388.25	-2,075.31	419.07	309.05	110.02	3.809		
9,500.00	7,755.00	9,647.10	7,889.00	60.03	60.67	108.65	388.69	-2,175.31	419.07	304.56	114.50	3.660		
9,600.00	7,755.00	9,747.10	7,889.00	62.43	63.05	108.65	389.12	-2,275.31	419.07	300.03	119.04	3.520		
9,700.00	7,755.00	9,847.10	7,889.00	64.84	65.45	108.65	389.56	-2,375.31	419.07	295.44	123.62	3.390		
9,800.00	7,755.00	9,947.10	7,889.00	67.28	67.87	108.65	390.00	-2,475.31	419.07	290.82	128.25	3.268		
9,900.00	7,755.00	10,047.10	7,889.00	69.74	70.31	108.65	390.43	-2,575.31	419.07	286.16	132.91	3.153		
10,000.00	7,755.00	10,147.10	7,889.00	72.21	72.77	108.65	390.87	-2,675.30	419.07	281.47	137.60	3.046		
10,100.00	7,755.00	10,247.10	7,889.00	74.70	75.25	108.65	391.31	-2,775.30	419.07	276.75	142.32	2.945		
10,200.00	7,755.00	10,347.10	7,889.00	77.20	77.74	108.65	391.74	-2,875.30	419.07	272.00	147.07	2.849		
10,300.00	7,755.00	10,447.10	7,889.00	79.71	80.24	108.65	392.18	-2,975.30	419.07	267.23	151.84	2.760		
10,400.00	7,755.00	10,547.10	7,889.00	82.24	82.75	108.65	392.62	-3,075.30	419.07	262.43	156.64	2.675		
10,500.00	7,755.00	10,647.10	7,889.00	84.77	85.28	108.65	393.05	-3,175.30	419.07	257.62	161.45	2.596		
10,600.00	7,755.00	10,747.10	7,889.00	87.32	87.81	108.65	393.49	-3,275.30	419.07	252.79	166.28	2.520		
10,700.00	7,755.00	10,847.10	7,889.00	89.87	90.35	108.65	393.93	-3,375.30	419.07	247.94	171.13	2.449		
10,800.00	7,755.00	10,947.10	7,889.00	92.43	92.90	108.65	394.36	-3,475.30	419.07	243.08	176.00	2.381		
10,900.00	7,755.00	11,047.10	7,889.00	95.00	95.46	108.65	394.80	-3,575.30	419.07	238.20	180.87	2.317		
11,000.00	7,755.00	11,147.10	7,889.00	97.57	98.03	108.65	395.23	-3,675.29	419.07	233.31	185.77	2.256		
11,100.00	7,755.00	11,247.10	7,889.00	100.15	100.60	108.65	395.67	-3,775.29	419.08	228.41	190.67	2.198		
11,200.00	7,755.00	11,347.10	7,889.00	102.74	103.18	108.65	396.11	-3,875.29	419.08	223.49	195.58	2.143		
11,300.00	7,755.00	11,447.10	7,889.00	105.33	105.77	108.65	396.54	-3,975.29	419.08	218.57	200.51	2.090		
11,400.00	7,755.00	11,547.10	7,889.00	107.92	108.35	108.65	396.98	-4,075.29	419.08	213.64	205.44	2.040		
11,500.00	7,755.00	11,647.10	7,889.00	110.52	110.95	108.65	397.42	-4,175.29	419.08	208.69	210.38	1.992		
11,600.00	7,755.00	11,747.10	7,889.00	113.13	113.55	108.65	397.85	-4,275.29	419.08	203.74	215.33	1.946		
11,700.00	7,755.00	11,847.10	7,889.00	115.74	116.15	108.65	398.29	-4,375.29	419.08	198.78	220.29	1.902		
11,800.00	7,755.00	11,947.10	7,889.00	118.35	118.76	108.65	398.73	-4,475.29	419.08	193.82	225.26	1.860		
11,900.00	7,755.00	12,047.10	7,889.00	120.96	121.37	108.65	399.16	-4,575.29	419.08	188.85	230.23	1.820		
12,000.00	7,755.00	12,147.10	7,889.00	123.58	123.98	108.65	399.60	-4,675.29	419.08	183.87	235.21	1.782		
12,100.00	7,755.00	12,247.10	7,889.00	126.20	126.60	108.65	400.04	-4,775.28	419.08	178.89	240.19	1.745		
12,200.00	7,755.00	12,347.10	7,888.99	128.83	129.22	108.65	400.47	-4,875.28	419.08	173.90	245.18	1.709		
12,300.00	7,755.00	12,447.10	7,888.99	131.46	131.84	108.65	400.91	-4,975.28	419.08	168.90	250.18	1.675		
12,400.00	7,755.00	12,547.10	7,888.99	134.09	134.47	108.65	401.35	-5,075.28	419.08	163.90	255.18	1.642		
12,500.00	7,755.00	12,647.10	7,888.99	136.72	137.09	108.65	401.78	-5,175.28	419.08	158.90	260.18	1.611		
12,600.00	7,755.00	12,747.10	7,888.99	139.35	139.72	108.65	402.22	-5,275.28	419.08	153.89	265.19	1.580		
12,700.00	7,755.00	12,847.10	7,888.99	141.99	142.36	108.65	402.66	-5,375.28	419.08	148.88	270.21	1.551		
12,800.00	7,755.00	12,947.10	7,888.99	144.63	144.99	108.65	403.09	-5,475.28	419.08	143.86	275.22	1.523		
12,900.00	7,755.00	13,047.10	7,888.99	147.27	147.63	108.65	403.53	-5,575.28	419.08	138.84	280.24	1.495	Level 3	
13,000.00	7,754.99	13,147.10	7,888.99	149.91	150.26	108.65	403.97	-5,675.28	419.08	133.82	285.27	1.469	Level 3	
13,100.00	7,754.99	13,247.10	7,888.99	152.55	152.91	108.65	404.40	-5,775.27	419.08	128.79	290.29	1.444	Level 3	
13,200.00	7,754.99	13,347.10	7,888.99	155.20	155.55	108.65	404.84	-5,875.27	419.08	123.76	295.32	1.419	Level 3	
13,300.00	7,754.99	13,447.10	7,888.99	157.84	158.19	108.65	405.28	-5,975.27	419.08	118.73	300.36	1.395	Level 3	
13,400.00	7,754.99	13,547.10	7,888.99	160.49	160.84	108.65	405.71	-6,075.27	419.08	113.69	305.39	1.372	Level 3	
13,500.00	7,754.99	13,647.10	7,888.99	163.14	163.48	108.65	406.15	-6,175.27	419.09	108.65	310.43	1.350	Level 3	
13,600.00	7,754.99	13,747.10	7,888.99	165.79	166.13	108.65	406.59	-6,275.27	419.09	103.61	315.47	1.328	Level 3	
13,700.00	7,754.99	13,847.10	7,888.99	168.44	168.78	108.65	407.02	-6,375.27	419.09	98.57	320.52	1.308	Level 3	
13,800.00	7,754.99	13,947.10	7,888.99	171.10	171.43	108.65	407.46	-6,475.27	419.09	93.52	325.56	1.287	Level 3	
13,900.00	7,754.99	14,047.10	7,888.99	173.75	174.08	108.65	407.90	-6,575.27	419.09	88.47	330.61	1.268	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 5-6-6
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 5-6-6	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	7,754.99	14,147.10	7,888.99	176.41	176.73	108.65	408.33	-6,675.27	419.09	83.42	335.66	1.249	Level 2	
14,100.00	7,754.99	14,247.10	7,888.99	179.06	179.39	108.65	408.77	-6,775.27	419.09	78.37	340.72	1.230	Level 2	
14,200.00	7,754.99	14,347.10	7,888.99	181.72	182.04	108.65	409.21	-6,875.26	419.09	73.32	345.77	1.212	Level 2	
14,300.00	7,754.99	14,447.10	7,888.99	184.38	184.70	108.65	409.64	-6,975.26	419.09	68.26	350.83	1.195	Level 2	
14,400.00	7,754.99	14,547.10	7,888.99	187.04	187.36	108.65	410.08	-7,075.26	419.09	63.20	355.89	1.178	Level 2	
14,500.00	7,754.99	14,647.10	7,888.99	189.70	190.01	108.65	410.52	-7,175.26	419.09	58.14	360.95	1.161	Level 2	
14,600.00	7,754.99	14,747.10	7,888.99	192.36	192.67	108.65	410.95	-7,275.26	419.09	53.08	366.01	1.145	Level 2	
14,700.00	7,754.99	14,847.10	7,888.99	195.02	195.33	108.65	411.39	-7,375.26	419.09	48.02	371.07	1.129	Level 2	
14,800.00	7,754.99	14,947.10	7,888.99	197.68	197.99	108.65	411.83	-7,475.26	419.09	42.96	376.13	1.114	Level 2	
14,900.00	7,754.99	15,047.10	7,888.99	200.34	200.65	108.65	412.26	-7,575.26	419.09	37.89	381.20	1.099	Level 2	
15,000.00	7,754.99	15,147.10	7,888.99	203.01	203.32	108.65	412.70	-7,675.26	419.09	32.82	386.27	1.085	Level 2	
15,100.00	7,754.99	15,247.10	7,888.99	205.67	205.98	108.65	413.14	-7,775.26	419.09	27.76	391.34	1.071	Level 2	
15,200.00	7,754.99	15,347.10	7,888.99	208.34	208.64	108.65	413.57	-7,875.25	419.09	22.69	396.41	1.057	Level 2	
15,300.00	7,754.99	15,447.10	7,888.99	211.00	211.31	108.65	414.01	-7,975.25	419.09	17.62	401.48	1.044	Level 2	
15,400.00	7,754.99	15,547.10	7,888.99	213.67	213.97	108.65	414.45	-8,075.25	419.09	12.54	406.55	1.031	Level 2	
15,500.00	7,754.99	15,647.10	7,888.99	216.34	216.64	108.65	414.88	-8,175.25	419.09	7.47	411.62	1.018	Level 2	
15,600.00	7,754.99	15,747.10	7,888.99	219.00	219.30	108.65	415.32	-8,275.25	419.09	2.40	416.70	1.006	Level 2	
15,700.00	7,754.99	15,847.10	7,888.99	221.67	221.97	108.65	415.76	-8,375.25	419.09	-2.68	421.77	0.994	Level 1	
15,800.00	7,754.99	15,947.10	7,888.99	224.34	224.63	108.65	416.19	-8,475.25	419.09	-7.75	426.85	0.982	Level 1	
15,900.00	7,754.99	16,047.10	7,888.99	227.01	227.30	108.65	416.63	-8,575.25	419.10	-12.83	431.93	0.970	Level 1	
16,000.00	7,754.99	16,147.10	7,888.99	229.68	229.97	108.65	417.07	-8,675.25	419.10	-17.91	437.01	0.959	Level 1	
16,100.00	7,754.99	16,247.10	7,888.99	232.35	232.64	108.65	417.50	-8,775.25	419.10	-22.99	442.09	0.948	Level 1	
16,200.00	7,754.99	16,347.10	7,888.99	235.02	235.31	108.65	417.94	-8,875.25	419.10	-28.07	447.17	0.937	Level 1	
16,300.00	7,754.99	16,447.10	7,888.99	237.69	237.98	108.65	418.38	-8,975.24	419.10	-33.15	452.25	0.927	Level 1	
16,400.00	7,754.99	16,547.10	7,888.99	240.36	240.65	108.65	418.81	-9,075.24	419.10	-38.23	457.33	0.916	Level 1	
16,500.00	7,754.99	16,647.10	7,888.99	243.03	243.32	108.65	419.25	-9,175.24	419.10	-43.31	462.41	0.906	Level 1	
16,600.00	7,754.99	16,747.10	7,888.99	245.71	245.99	108.65	419.69	-9,275.24	419.10	-48.40	467.50	0.896	Level 1	
16,700.00	7,754.99	16,847.10	7,888.99	248.38	248.66	108.65	420.12	-9,375.24	419.10	-53.48	472.58	0.887	Level 1	
16,800.00	7,754.99	16,947.10	7,888.99	251.05	251.33	108.65	420.56	-9,475.24	419.10	-58.57	477.66	0.877	Level 1	
16,900.00	7,754.99	17,047.10	7,888.99	253.72	254.00	108.65	421.00	-9,575.24	419.10	-63.65	482.75	0.868	Level 1	
17,000.00	7,754.99	17,147.10	7,888.99	256.40	256.68	108.65	421.43	-9,675.24	419.10	-68.74	487.84	0.859	Level 1	
17,100.00	7,754.99	17,247.10	7,888.99	259.07	259.35	108.65	421.87	-9,775.24	419.10	-73.82	492.92	0.850	Level 1	
17,200.00	7,754.99	17,347.10	7,888.99	261.75	262.02	108.65	422.31	-9,875.24	419.10	-78.91	498.01	0.842	Level 1	
17,300.00	7,754.99	17,447.10	7,888.99	264.42	264.70	108.65	422.74	-9,975.23	419.10	-84.00	503.10	0.833	Level 1	
17,400.00	7,754.99	17,547.10	7,888.99	267.10	267.37	108.65	423.18	-10,075.23	419.10	-89.09	508.19	0.825	Level 1	
17,500.00	7,754.99	17,647.10	7,888.99	269.77	270.04	108.65	423.62	-10,175.23	419.10	-94.18	513.28	0.817	Level 1	
17,600.00	7,754.99	17,747.10	7,888.99	272.45	272.72	108.65	424.05	-10,275.23	419.10	-99.27	518.37	0.809	Level 1	
17,700.00	7,754.99	17,847.10	7,888.99	275.12	275.39	108.65	424.49	-10,375.23	419.10	-104.36	523.46	0.801	Level 1	
17,768.61	7,755.00	17,916.79	7,889.00	276.96	277.26	108.65	424.75	-10,444.91	419.05	-107.91	526.96	0.795	Level 1, ES, SF	

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	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	1,000.00	1,000.00	1,000.00	3.36	3.36	90.00	0.00	106.87	106.87	100.15	6.72	15.901		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.00	0.00	106.87	106.87	99.44	7.44	14.368		
1,200.00	1,200.00	1,202.26	1,202.23	4.08	4.07	90.79	-1.45	105.78	105.81	97.66	8.15	12.991		
1,292.85	1,292.83	1,297.02	1,296.87	4.40	4.38	-171.97	-5.40	102.79	104.50	95.73	8.78	11.905		
1,300.00	1,299.98	1,304.32	1,304.14	4.43	4.41	-171.75	-5.81	102.49	104.45	95.63	8.83	11.835		
1,400.00	1,399.93	1,404.72	1,404.22	4.77	4.75	-168.31	-12.23	97.64	103.36	93.86	9.50	10.875		
1,500.00	1,499.87	1,504.51	1,503.68	5.12	5.09	-164.75	-18.73	92.73	102.58	92.39	10.19	10.064		
1,600.00	1,599.82	1,604.30	1,603.14	5.46	5.44	-161.15	-25.23	87.82	102.20	91.31	10.89	9.385		
1,643.45	1,643.25	1,647.66	1,646.35	5.61	5.60	-159.58	-28.06	85.69	102.16	90.96	11.20	9.125 CC		
1,700.00	1,699.77	1,704.09	1,702.60	5.81	5.80	-157.54	-31.74	82.92	102.23	90.63	11.59	8.814		
1,800.00	1,799.72	1,803.88	1,802.05	6.16	6.16	-153.95	-38.24	78.01	102.66	90.36	12.30	8.344		
1,900.00	1,899.66	1,903.67	1,901.51	6.52	6.52	-150.39	-44.75	73.10	103.49	90.48	13.02	7.950		
2,000.00	1,999.61	2,003.47	2,000.97	6.87	6.88	-146.91	-51.25	68.19	104.72	90.98	13.74	7.623		
2,100.00	2,099.56	2,103.26	2,100.43	7.22	7.25	-143.52	-57.75	63.28	106.33	91.87	14.46	7.354		
2,200.00	2,199.51	2,203.05	2,199.89	7.58	7.62	-140.25	-64.26	58.37	108.29	93.11	15.18	7.132		
2,300.00	2,299.45	2,302.84	2,299.35	7.94	7.99	-137.10	-70.76	53.46	110.60	94.69	15.91	6.952		
2,400.00	2,399.40	2,402.63	2,398.80	8.29	8.36	-134.08	-77.26	48.55	113.23	96.59	16.64	6.806		
2,500.00	2,499.35	2,502.42	2,498.26	8.65	8.73	-131.21	-83.77	43.64	116.16	98.80	17.37	6.689		
2,600.00	2,599.30	2,602.21	2,597.72	9.01	9.10	-128.49	-90.27	38.74	119.37	101.27	18.09	6.597		
2,700.00	2,699.24	2,702.01	2,697.18	9.37	9.48	-125.91	-96.77	33.83	122.83	104.01	18.82	6.526		
2,800.00	2,799.19	2,801.80	2,796.64	9.72	9.85	-123.48	-103.28	28.92	126.53	106.98	19.55	6.471		
2,900.00	2,899.14	2,901.59	2,896.09	10.08	10.23	-121.19	-109.78	24.01	130.44	110.16	20.28	6.432		
3,000.00	2,999.09	3,001.38	2,995.55	10.44	10.61	-119.04	-116.28	19.10	134.55	113.54	21.01	6.405		
3,100.00	3,099.03	3,101.17	3,095.01	10.80	10.98	-117.02	-122.79	14.19	138.84	117.10	21.74	6.387		
3,200.00	3,198.98	3,200.96	3,194.47	11.16	11.36	-115.12	-129.29	9.28	143.29	120.82	22.46	6.379		
3,300.00	3,298.93	3,300.75	3,293.93	11.52	11.74	-113.34	-135.79	4.37	147.89	124.69	23.19	6.377		
3,400.00	3,398.88	3,400.55	3,393.39	11.88	12.12	-111.66	-142.30	-0.53	152.62	128.70	23.92	6.381		
3,500.00	3,498.82	3,500.34	3,492.84	12.24	12.50	-110.09	-148.80	-5.44	157.47	132.83	24.64	6.390		
3,600.00	3,598.77	3,600.13	3,592.30	12.60	12.88	-108.61	-155.31	-10.35	162.44	137.07	25.37	6.403		
3,700.00	3,698.72	3,700.08	3,691.76	12.96	13.26	-107.22	-161.81	-15.26	167.51	141.41	26.10	6.419		
3,800.00	3,798.67	3,800.29	3,791.22	13.32	13.64	-105.92	-168.31	-20.17	172.67	145.84	26.82	6.437		
3,900.00	3,898.61	3,900.50	3,890.68	13.68	14.02	-104.68	-174.82	-25.08	177.91	150.36	27.55	6.457		
4,000.00	3,998.56	3,999.30	3,990.14	14.04	14.40	-103.52	-181.32	-29.99	183.23	154.96	28.27	6.481		
4,100.00	4,098.51	4,100.91	4,089.59	14.40	14.79	-102.43	-187.82	-34.90	188.63	159.62	29.00	6.503		
4,200.00	4,198.46	4,201.12	4,189.05	14.76	15.17	-101.40	-194.33	-39.80	194.08	164.35	29.73	6.528		
4,300.00	4,298.40	4,301.33	4,288.51	15.13	15.56	-100.42	-200.83	-44.71	199.60	169.14	30.46	6.553		
4,400.00	4,398.35	4,401.54	4,387.97	15.49	15.94	-99.50	-207.33	-49.62	205.17	173.99	31.18	6.580		
4,500.00	4,498.30	4,501.75	4,487.43	15.85	16.32	-98.62	-213.84	-54.53	210.79	178.88	31.91	6.606		
4,600.00	4,598.25	4,601.96	4,586.89	16.21	16.71	-97.79	-220.34	-59.44	216.46	183.83	32.64	6.633		
4,700.00	4,698.19	4,702.16	4,686.34	16.57	17.09	-97.01	-226.84	-64.35	222.17	188.81	33.36	6.660		
4,800.00	4,798.14	4,802.37	4,785.80	16.93	17.48	-96.26	-233.35	-69.26	227.93	193.84	34.09	6.686		
4,900.00	4,898.09	4,902.58	4,885.26	17.29	17.86	-95.55	-239.85	-74.17	233.71	198.90	34.81	6.713		

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 5-6-6
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 5-6-6	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	4,998.04	5,002.79	4,984.72	17.66	18.24	-94.87	-246.35	-79.08	239.54	204.00	35.54	6.740		
5,100.00	5,097.98	5,103.00	5,084.18	18.02	18.63	-94.23	-252.86	-83.98	245.39	209.12	36.27	6.766		
5,200.00	5,197.93	5,203.21	5,183.63	18.38	19.01	-93.62	-259.36	-88.89	251.27	214.28	36.99	6.793		
5,300.00	5,297.88	5,303.42	5,283.09	18.74	19.40	-93.03	-265.86	-93.80	257.18	219.47	37.72	6.819		
5,400.00	5,397.83	5,403.62	5,382.55	19.10	19.78	-92.47	-272.37	-98.71	263.12	224.68	38.44	6.844		
5,500.00	5,497.77	5,503.83	5,482.01	19.46	20.17	-91.94	-278.87	-103.62	269.08	229.91	39.17	6.870		
5,600.00	5,597.72	5,604.04	5,581.47	19.83	20.55	-91.43	-285.38	-108.53	275.06	235.17	39.90	6.894		
5,700.00	5,697.67	5,704.25	5,680.93	20.19	20.94	-90.94	-291.88	-113.44	281.07	240.44	40.62	6.919		
5,800.00	5,797.62	5,804.46	5,780.38	20.55	21.32	-90.47	-298.38	-118.35	287.09	245.74	41.35	6.943		
5,900.00	5,897.56	5,904.67	5,879.84	20.91	21.71	-90.02	-304.89	-123.25	293.13	251.06	42.07	6.967		
6,000.00	5,997.51	6,004.88	5,979.30	21.27	22.09	-89.59	-311.39	-128.16	299.19	256.39	42.80	6.990		
6,100.00	6,097.46	6,105.08	6,078.76	21.64	22.48	-89.17	-317.89	-133.07	305.26	261.74	43.53	7.013		
6,200.00	6,197.41	6,205.29	6,178.22	22.00	22.86	-88.77	-324.40	-137.98	311.35	267.10	44.25	7.036		
6,300.00	6,297.35	6,305.50	6,277.68	22.36	23.25	-88.39	-330.90	-142.89	317.46	272.48	44.98	7.058		
6,400.00	6,397.30	6,405.71	6,377.13	22.72	23.64	-88.02	-337.40	-147.80	323.58	277.87	45.71	7.080		
6,500.00	6,497.25	6,505.92	6,476.59	23.08	24.02	-87.67	-343.91	-152.71	329.71	283.27	46.43	7.101		
6,600.00	6,597.20	6,593.87	6,576.05	23.45	24.36	-87.33	-350.41	-157.62	335.85	288.74	47.11	7.129		
6,700.00	6,697.14	6,706.34	6,675.51	23.81	24.79	-87.00	-356.91	-162.53	342.00	294.12	47.88	7.142		
6,800.00	6,797.09	6,806.54	6,774.97	24.17	25.18	-86.68	-363.42	-167.43	348.17	299.56	48.61	7.162		
6,900.00	6,897.04	6,893.25	6,874.42	24.53	25.51	-86.37	-369.92	-172.34	354.35	305.06	49.29	7.189		
7,000.00	6,996.99	7,006.96	6,973.88	24.90	25.95	-86.08	-376.42	-177.25	360.53	310.47	50.06	7.201		
7,062.22	7,059.17	7,055.13	7,035.76	25.12	26.14	-85.90	-380.47	-180.31	364.38	313.92	50.46	7.221		
7,100.00	7,096.94	7,092.82	7,073.33	25.26	26.28	-85.80	-382.93	-182.16	366.74	316.01	50.74	7.228		
7,155.06	7,152.00	7,151.04	7,131.37	25.45	26.50	-85.34	-386.58	-184.91	370.13	318.98	51.15	7.236		
7,185.06	7,182.00	7,184.40	7,164.66	25.55	26.63	-85.34	-388.30	-186.21	371.66	320.28	51.38	7.234		
7,200.00	7,196.94	7,201.04	7,181.27	25.61	26.69	-85.59	-389.04	-186.77	372.33	320.83	51.49	7.231		
7,250.00	7,246.80	7,256.69	7,236.87	25.79	26.89	-90.78	-390.96	-188.22	374.09	322.20	51.89	7.209		
7,300.00	7,296.17	7,311.82	7,291.98	25.98	27.09	-91.86	-392.01	-189.02	375.22	322.92	52.30	7.175		
7,350.00	7,344.67	7,364.51	7,344.67	26.19	27.26	-93.69	-392.25	-189.19	376.04	323.33	52.71	7.135		
7,400.00	7,391.93	7,414.00	7,394.14	26.40	27.42	-95.88	-392.24	-190.04	377.39	324.26	53.13	7.103		
7,450.00	7,437.60	7,465.87	7,445.74	26.62	27.61	-98.13	-392.22	-195.20	379.41	325.83	53.57	7.082		
7,500.00	7,481.32	7,519.41	7,498.28	26.85	27.82	-100.33	-392.18	-205.39	382.01	328.00	54.02	7.072		
7,550.00	7,522.76	7,574.75	7,551.35	27.09	28.05	-102.48	-392.11	-221.03	385.14	330.70	54.44	7.075		
7,600.00	7,561.61	7,632.00	7,604.39	27.36	28.29	-104.54	-392.01	-242.52	388.69	333.86	54.83	7.089		
7,650.00	7,597.57	7,691.27	7,656.75	27.65	28.56	-106.50	-391.89	-270.22	392.55	337.38	55.17	7.116		
7,700.00	7,630.37	7,752.61	7,707.63	27.96	28.86	-108.34	-391.74	-304.42	396.57	341.13	55.44	7.153		
7,750.00	7,659.76	7,816.05	7,756.11	28.32	29.19	-110.02	-391.57	-345.30	400.62	344.95	55.66	7.197		
7,800.00	7,685.51	7,881.57	7,801.10	28.71	29.57	-111.54	-391.36	-392.88	404.51	348.66	55.85	7.243		
7,850.00	7,707.43	7,949.06	7,841.47	29.14	30.02	-112.86	-391.12	-446.92	408.09	352.05	56.04	7.283		
7,900.00	7,725.35	8,018.35	7,876.01	29.62	30.56	-113.95	-390.86	-506.94	411.20	354.91	56.29	7.305		
7,950.00	7,739.14	8,089.18	7,903.56	30.14	31.19	-114.80	-390.58	-572.13	413.70	357.02	56.68	7.299		
8,000.00	7,748.69	8,161.19	7,923.12	30.71	31.93	-115.39	-390.27	-641.39	415.47	358.19	57.27	7.254		
8,050.00	7,753.92	8,233.96	7,933.91	31.31	32.77	-115.70	-389.96	-713.30	416.42	358.29	58.13	7.164		
8,085.13	7,755.00	8,285.29	7,936.00	31.75	33.41	-115.75	-389.74	-764.58	416.57	357.67	58.90	7.073		
8,088.16	7,755.00	8,289.73	7,935.96	31.79	33.46	-115.75	-389.72	-769.01	416.56	357.59	58.97	7.064		
8,100.00	7,755.00	8,300.59	7,936.00	31.94	33.60	-115.75	-389.67	-778.70	416.57	357.31	59.26	7.030		
8,200.00	7,755.00	8,400.59	7,936.00	33.33	34.99	-115.75	-389.24	-878.69	416.57	354.79	61.78	6.743		
8,300.00	7,755.00	8,500.59	7,936.00	34.87	36.53	-115.75	-388.80	-978.69	416.57	351.99	64.58	6.451		
8,400.00	7,755.00	8,600.59	7,936.00	36.54	38.19	-115.75	-388.37	-1,078.69	416.57	348.96	67.61	6.161		
8,500.00	7,755.00	8,700.59	7,935.99	38.33	39.97	-115.75	-387.93	-1,178.69	416.57	345.71	70.86	5.879		
8,600.00	7,755.00	8,800.59	7,935.99	40.22	41.85	-115.75	-387.49	-1,278.69	416.57	342.29	74.28	5.608		
8,700.00	7,755.00	8,900.59	7,935.99	42.19	43.82	-115.75	-387.06	-1,378.69	416.57	338.70	77.86	5.350		

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 5-6-6
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 5-6-6	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	7,755.00	9,000.59	7,935.99	44.24	45.86	-115.75	-386.62	-1,478.69	416.57	334.98	81.58	5.106		
8,900.00	7,755.00	9,100.59	7,935.99	46.36	47.97	-115.75	-386.18	-1,578.69	416.57	331.14	85.42	4.876		
9,000.00	7,755.00	9,200.59	7,935.99	48.54	50.13	-115.75	-385.75	-1,678.69	416.56	327.20	89.37	4.661		
9,100.00	7,755.00	9,300.59	7,935.99	50.76	52.34	-115.75	-385.31	-1,778.69	416.56	323.16	93.40	4.460		
9,200.00	7,755.00	9,400.59	7,935.98	53.03	54.59	-115.75	-384.88	-1,878.68	416.56	319.05	97.51	4.272		
9,300.00	7,755.00	9,500.59	7,935.98	55.33	56.89	-115.75	-384.44	-1,978.68	416.56	314.87	101.69	4.096		
9,400.00	7,755.00	9,600.59	7,935.98	57.67	59.21	-115.75	-384.00	-2,078.68	416.56	310.62	105.94	3.932		
9,500.00	7,755.00	9,700.59	7,935.98	60.03	61.57	-115.75	-383.57	-2,178.68	416.56	306.33	110.24	3.779		
9,600.00	7,755.00	9,800.59	7,935.98	62.43	63.95	-115.75	-383.13	-2,278.68	416.56	301.98	114.58	3.636		
9,700.00	7,755.00	9,900.59	7,935.98	64.84	66.36	-115.75	-382.69	-2,378.68	416.56	297.59	118.97	3.501		
9,800.00	7,755.00	10,000.59	7,935.98	67.28	68.78	-115.75	-382.26	-2,478.68	416.56	293.16	123.40	3.376		
9,900.00	7,755.00	10,100.59	7,935.97	69.74	71.23	-115.75	-381.82	-2,578.68	416.56	288.70	127.86	3.258		
10,000.00	7,755.00	10,200.59	7,935.97	72.21	73.69	-115.75	-381.39	-2,678.68	416.56	284.21	132.35	3.147		
10,100.00	7,755.00	10,300.59	7,935.97	74.70	76.17	-115.75	-380.95	-2,778.68	416.56	279.69	136.87	3.043		
10,200.00	7,755.00	10,400.59	7,935.97	77.20	78.67	-115.75	-380.51	-2,878.68	416.56	275.14	141.42	2.946		
10,300.00	7,755.00	10,500.59	7,935.97	79.71	81.17	-115.75	-380.08	-2,978.67	416.56	270.57	145.98	2.853		
10,400.00	7,755.00	10,600.59	7,935.97	82.24	83.69	-115.75	-379.64	-3,078.67	416.56	265.98	150.57	2.766		
10,500.00	7,755.00	10,700.59	7,935.96	84.77	86.22	-115.75	-379.20	-3,178.67	416.55	261.37	155.18	2.684		
10,600.00	7,755.00	10,800.59	7,935.96	87.32	88.75	-115.75	-378.77	-3,278.67	416.55	256.75	159.81	2.607		
10,700.00	7,755.00	10,900.59	7,935.96	89.87	91.30	-115.75	-378.33	-3,378.67	416.55	252.11	164.45	2.533		
10,800.00	7,755.00	11,000.59	7,935.96	92.43	93.85	-115.75	-377.90	-3,478.67	416.55	247.45	169.10	2.463		
10,900.00	7,755.00	11,100.59	7,935.96	95.00	96.41	-115.75	-377.46	-3,578.67	416.55	242.78	173.77	2.397		
11,000.00	7,755.00	11,200.59	7,935.96	97.57	98.98	-115.75	-377.02	-3,678.67	416.55	238.10	178.45	2.334		
11,100.00	7,755.00	11,300.59	7,935.96	100.15	101.55	-115.75	-376.59	-3,778.67	416.55	233.41	183.15	2.274		
11,200.00	7,755.00	11,400.59	7,935.95	102.74	104.13	-115.75	-376.15	-3,878.67	416.55	228.70	187.85	2.217		
11,300.00	7,755.00	11,500.59	7,935.95	105.33	106.72	-115.75	-375.71	-3,978.67	416.55	223.99	192.56	2.163		
11,400.00	7,755.00	11,600.59	7,935.95	107.92	109.31	-115.75	-375.28	-4,078.66	416.55	219.27	197.28	2.111		
11,500.00	7,755.00	11,700.59	7,935.95	110.52	111.91	-115.75	-374.84	-4,178.66	416.55	214.53	202.01	2.062		
11,600.00	7,755.00	11,800.59	7,935.95	113.13	114.51	-115.75	-374.41	-4,278.66	416.55	209.80	206.75	2.015		
11,700.00	7,755.00	11,900.59	7,935.95	115.74	117.11	-115.75	-373.97	-4,378.66	416.55	205.05	211.50	1.970		
11,800.00	7,755.00	12,000.59	7,935.95	118.35	119.72	-115.75	-373.53	-4,478.66	416.55	200.30	216.25	1.926		
11,900.00	7,755.00	12,100.59	7,935.94	120.96	122.33	-115.75	-373.10	-4,578.66	416.55	195.54	221.01	1.885		
12,000.00	7,755.00	12,200.59	7,935.94	123.58	124.94	-115.75	-372.66	-4,678.66	416.55	190.77	225.77	1.845		
12,100.00	7,755.00	12,300.59	7,935.94	126.20	127.56	-115.75	-372.22	-4,778.66	416.54	186.00	230.54	1.807		
12,200.00	7,755.00	12,400.59	7,935.94	128.83	130.18	-115.75	-371.79	-4,878.66	416.54	181.23	235.32	1.770		
12,300.00	7,755.00	12,500.59	7,935.94	131.46	132.80	-115.75	-371.35	-4,978.66	416.54	176.45	240.10	1.735		
12,400.00	7,755.00	12,600.59	7,935.94	134.09	135.43	-115.75	-370.92	-5,078.65	416.54	171.66	244.88	1.701		
12,500.00	7,755.00	12,700.59	7,935.94	136.72	138.06	-115.75	-370.48	-5,178.65	416.54	166.87	249.67	1.668		
12,600.00	7,755.00	12,800.59	7,935.93	139.35	140.69	-115.75	-370.04	-5,278.65	416.54	162.08	254.47	1.637		
12,700.00	7,755.00	12,900.59	7,935.93	141.99	143.32	-115.75	-369.61	-5,378.65	416.54	157.28	259.26	1.607		
12,800.00	7,755.00	13,000.59	7,935.93	144.63	145.96	-115.75	-369.17	-5,478.65	416.54	152.47	264.07	1.577		
12,900.00	7,755.00	13,100.59	7,935.93	147.27	148.59	-115.75	-368.73	-5,578.65	416.54	147.67	268.87	1.549		
13,000.00	7,754.99	13,200.59	7,935.93	149.91	151.23	-115.75	-368.30	-5,678.65	416.54	142.86	273.68	1.522		
13,100.00	7,754.99	13,300.59	7,935.93	152.55	153.87	-115.75	-367.86	-5,778.65	416.54	138.05	278.49	1.496 Level 3		
13,200.00	7,754.99	13,400.59	7,935.93	155.20	156.52	-115.75	-367.43	-5,878.65	416.54	133.23	283.30	1.470 Level 3		
13,300.00	7,754.99	13,500.59	7,935.92	157.84	159.16	-115.74	-366.99	-5,978.65	416.54	128.42	288.12	1.446 Level 3		
13,400.00	7,754.99	13,600.59	7,935.92	160.49	161.81	-115.74	-366.55	-6,078.65	416.54	123.60	292.94	1.422 Level 3		
13,500.00	7,754.99	13,700.59	7,935.92	163.14	164.45	-115.74	-366.12	-6,178.64	416.54	118.77	297.76	1.399 Level 3		
13,600.00	7,754.99	13,800.59	7,935.92	165.79	167.10	-115.74	-365.68	-6,278.64	416.54	113.95	302.59	1.377 Level 3		
13,700.00	7,754.99	13,900.59	7,935.92	168.44	169.75	-115.74	-365.24	-6,378.64	416.53	109.12	307.42	1.355 Level 3		
13,800.00	7,754.99	14,000.59	7,935.92	171.10	172.40	-115.74	-364.81	-6,478.64	416.53	104.29	312.24	1.334 Level 3		
13,900.00	7,754.99	14,100.59	7,935.92	173.75	175.05	-115.74	-364.37	-6,578.64	416.53	99.46	317.08	1.314 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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,000.00	7,754.99	14,200.59	7,935.91	176.41	177.71	-115.74	-363.94	-6,678.64	416.53	94.62	321.91	1.294	Level 3		
14,100.00	7,754.99	14,300.59	7,935.91	179.06	180.36	-115.74	-363.50	-6,778.64	416.53	89.79	326.75	1.275	Level 3		
14,200.00	7,754.99	14,400.59	7,935.91	181.72	183.01	-115.74	-363.06	-6,878.64	416.53	84.95	331.58	1.256	Level 3		
14,300.00	7,754.99	14,500.59	7,935.91	184.38	185.67	-115.74	-362.63	-6,978.64	416.53	80.11	336.42	1.238	Level 2		
14,400.00	7,754.99	14,600.59	7,935.91	187.04	188.33	-115.74	-362.19	-7,078.64	416.53	75.27	341.26	1.221	Level 2		
14,500.00	7,754.99	14,700.59	7,935.91	189.70	190.99	-115.74	-361.75	-7,178.63	416.53	70.42	346.11	1.203	Level 2		
14,600.00	7,754.99	14,800.59	7,935.91	192.36	193.64	-115.74	-361.32	-7,278.63	416.53	65.58	350.95	1.187	Level 2		
14,700.00	7,754.99	14,900.59	7,935.90	195.02	196.30	-115.74	-360.88	-7,378.63	416.53	60.73	355.79	1.171	Level 2		
14,800.00	7,754.99	15,000.59	7,935.90	197.68	198.97	-115.74	-360.44	-7,478.63	416.53	55.89	360.64	1.155	Level 2		
14,900.00	7,754.99	15,100.59	7,935.90	200.34	201.63	-115.74	-360.01	-7,578.63	416.53	51.04	365.49	1.140	Level 2		
15,000.00	7,754.99	15,200.59	7,935.90	203.01	204.29	-115.74	-359.57	-7,678.63	416.53	46.19	370.34	1.125	Level 2		
15,100.00	7,754.99	15,300.59	7,935.90	205.67	206.95	-115.74	-359.14	-7,778.63	416.53	41.33	375.19	1.110	Level 2		
15,200.00	7,754.99	15,400.59	7,935.90	208.34	209.62	-115.74	-358.70	-7,878.63	416.53	36.48	380.04	1.096	Level 2		
15,300.00	7,754.99	15,500.59	7,935.89	211.00	212.28	-115.74	-358.26	-7,978.63	416.52	31.63	384.90	1.082	Level 2		
15,400.00	7,754.99	15,600.59	7,935.89	213.67	214.94	-115.74	-357.83	-8,078.63	416.52	26.77	389.75	1.069	Level 2		
15,500.00	7,754.99	15,700.59	7,935.89	216.34	217.61	-115.74	-357.39	-8,178.63	416.52	21.92	394.61	1.056	Level 2		
15,600.00	7,754.99	15,800.59	7,935.89	219.00	220.28	-115.74	-356.95	-8,278.62	416.52	17.06	399.46	1.043	Level 2		
15,700.00	7,754.99	15,900.59	7,935.89	221.67	222.94	-115.74	-356.52	-8,378.62	416.52	12.20	404.32	1.030	Level 2		
15,800.00	7,754.99	16,000.59	7,935.89	224.34	225.61	-115.74	-356.08	-8,478.62	416.52	7.34	409.18	1.018	Level 2		
15,900.00	7,754.99	16,100.59	7,935.89	227.01	228.28	-115.74	-355.65	-8,578.62	416.52	2.48	414.04	1.006	Level 2		
16,000.00	7,754.99	16,200.59	7,935.88	229.68	230.95	-115.74	-355.21	-8,678.62	416.52	-2.38	418.90	0.994	Level 1		
16,100.00	7,754.99	16,300.59	7,935.88	232.35	233.61	-115.74	-354.77	-8,778.62	416.52	-7.24	423.76	0.983	Level 1		
16,200.00	7,754.99	16,400.59	7,935.88	235.02	236.28	-115.74	-354.34	-8,878.62	416.52	-12.11	428.62	0.972	Level 1		
16,300.00	7,754.99	16,500.59	7,935.88	237.69	238.95	-115.74	-353.90	-8,978.62	416.52	-16.97	433.49	0.961	Level 1		
16,400.00	7,754.99	16,600.59	7,935.88	240.36	241.62	-115.74	-353.46	-9,078.62	416.52	-21.83	438.35	0.950	Level 1		
16,500.00	7,754.99	16,700.59	7,935.88	243.03	244.29	-115.74	-353.03	-9,178.62	416.52	-26.70	443.22	0.940	Level 1		
16,600.00	7,754.99	16,800.59	7,935.88	245.71	246.96	-115.74	-352.59	-9,278.61	416.52	-31.57	448.08	0.930	Level 1		
16,700.00	7,754.99	16,900.59	7,935.87	248.38	249.64	-115.74	-352.16	-9,378.61	416.52	-36.43	452.95	0.920	Level 1		
16,800.00	7,754.99	17,000.59	7,935.87	251.05	252.31	-115.74	-351.72	-9,478.61	416.52	-41.30	457.82	0.910	Level 1		
16,900.00	7,754.99	17,100.59	7,935.87	253.72	254.98	-115.74	-351.28	-9,578.61	416.51	-46.17	462.68	0.900	Level 1		
17,000.00	7,754.99	17,200.59	7,935.87	256.40	257.65	-115.74	-350.85	-9,678.61	416.51	-51.04	467.55	0.891	Level 1		
17,100.00	7,754.99	17,300.59	7,935.87	259.07	260.32	-115.74	-350.41	-9,778.61	416.51	-55.91	472.42	0.882	Level 1		
17,200.00	7,754.99	17,400.59	7,935.87	261.75	263.00	-115.74	-349.97	-9,878.61	416.51	-60.78	477.29	0.873	Level 1		
17,300.00	7,754.99	17,500.59	7,935.87	264.42	265.67	-115.74	-349.54	-9,978.61	416.51	-65.65	482.16	0.864	Level 1		
17,400.00	7,754.99	17,600.59	7,935.86	267.10	268.34	-115.74	-349.10	-10,078.61	416.51	-70.52	487.03	0.855	Level 1		
17,500.00	7,754.99	17,700.59	7,935.86	269.77	271.02	-115.74	-348.67	-10,178.61	416.51	-75.39	491.90	0.847	Level 1		
17,600.00	7,754.99	17,800.59	7,935.86	272.45	273.69	-115.74	-348.23	-10,278.61	416.51	-80.26	496.77	0.838	Level 1		
17,694.09	7,754.99	28,535.04	7,935.85	274.96	560.83	-115.74	-347.82	-10,372.26	416.50	-343.89	760.39	0.548	Level 1, ES, SF		
17,700.00	7,754.99	19,473.24	7,935.86	275.12	318.43	-115.74	-347.79	-10,378.17	416.51	-123.44	539.95	0.771	Level 1		
17,768.61	7,755.00	17,967.59	7,936.00	276.96	278.16	-115.75	-347.51	-10,446.78	416.58	-88.32	504.90	0.825	Level 1		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	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	1,000.00	1,001.58	1,001.55	3.36	3.35	90.78	-1.67	123.09	123.11	116.40	6.71	18.350		
1,100.00	1,100.00	1,102.90	1,102.73	3.72	3.69	93.16	-6.68	121.10	121.32	113.92	7.40	16.394		
1,200.00	1,200.00	1,203.71	1,203.14	4.08	4.03	97.23	-14.95	117.82	118.81	110.71	8.10	14.668		
1,271.61	1,271.60	1,275.50	1,274.43	4.33	4.28	-163.71	-22.84	114.69	117.84	109.23	8.60	13.698 CC		
1,292.85	1,292.83	1,296.73	1,295.46	4.40	4.35	-162.43	-25.49	113.64	117.93	109.18	8.75	13.475 ES		
1,300.00	1,299.98	1,303.87	1,302.53	4.43	4.38	-161.99	-26.42	113.27	117.99	109.19	8.80	13.406		
1,400.00	1,399.93	1,403.03	1,400.71	4.77	4.74	-155.85	-39.37	108.14	119.61	110.10	9.51	12.578		
1,500.00	1,499.87	1,502.19	1,498.88	5.12	5.12	-149.94	-52.33	103.00	122.57	112.35	10.23	11.984		
1,600.00	1,599.82	1,601.35	1,597.06	5.46	5.50	-144.36	-65.28	97.86	126.80	115.84	10.95	11.575		
1,700.00	1,699.77	1,700.51	1,695.24	5.81	5.89	-139.18	-78.24	92.73	132.15	120.47	11.68	11.310		
1,800.00	1,799.72	1,800.33	1,793.41	6.16	6.29	-134.43	-91.19	87.59	138.51	126.09	12.42	11.154		
1,900.00	1,899.66	1,901.17	1,891.59	6.52	6.69	-130.12	-104.15	82.45	145.74	132.59	13.16	11.078		
2,000.00	1,999.61	2,002.01	1,989.77	6.87	7.10	-126.23	-117.10	77.32	153.72	139.83	13.89	11.066		
2,100.00	2,099.56	2,102.85	2,087.94	7.22	7.51	-122.74	-130.06	72.18	162.34	147.72	14.63	11.098		
2,200.00	2,199.51	2,203.69	2,186.12	7.58	7.93	-119.61	-143.01	67.04	171.50	156.14	15.36	11.164		
2,300.00	2,299.45	2,295.48	2,284.30	7.94	8.31	-116.80	-155.96	61.91	181.13	165.07	16.06	11.279		
2,400.00	2,399.40	2,405.36	2,382.47	8.29	8.76	-114.27	-168.92	56.77	191.14	174.31	16.83	11.359		
2,500.00	2,499.35	2,506.20	2,480.65	8.65	9.19	-112.00	-181.87	51.63	201.48	183.92	17.56	11.475		
2,600.00	2,599.30	2,607.04	2,578.83	9.01	9.61	-109.96	-194.83	46.50	212.11	193.82	18.29	11.597		
2,700.00	2,699.24	2,707.88	2,677.00	9.37	10.03	-108.11	-207.78	41.36	222.98	203.96	19.02	11.723		
2,800.00	2,799.19	2,808.72	2,775.18	9.72	10.46	-106.43	-220.74	36.22	234.06	214.31	19.75	11.851		
2,900.00	2,899.14	2,890.44	2,873.36	10.08	10.80	-104.91	-233.69	31.09	245.32	224.92	20.41	12.022		
3,000.00	2,999.09	2,989.60	2,971.53	10.44	11.22	-103.51	-246.65	25.95	256.74	235.61	21.13	12.150		
3,100.00	3,099.03	3,088.76	3,069.71	10.80	11.64	-102.24	-259.60	20.81	268.30	246.44	21.86	12.276		
3,200.00	3,198.98	3,187.92	3,167.89	11.16	12.06	-101.08	-272.56	15.67	279.97	257.40	22.58	12.400		
3,300.00	3,298.93	3,287.08	3,266.06	11.52	12.48	-100.00	-285.51	10.54	291.76	268.45	23.30	12.520		
3,400.00	3,398.88	3,386.24	3,364.24	11.88	12.91	-99.01	-298.46	5.40	303.63	279.60	24.03	12.636		
3,500.00	3,498.82	3,485.40	3,462.42	12.24	13.33	-98.10	-311.42	0.26	315.59	290.84	24.75	12.749		
3,600.00	3,598.77	3,584.56	3,560.59	12.60	13.75	-97.25	-324.37	-4.87	327.62	302.14	25.48	12.859		
3,700.00	3,698.72	3,683.73	3,658.77	12.96	14.18	-96.46	-337.33	-10.01	339.72	313.51	26.20	12.964		
3,800.00	3,798.67	3,782.89	3,756.95	13.32	14.60	-95.73	-350.28	-15.15	351.87	324.94	26.93	13.066		
3,900.00	3,898.61	3,882.05	3,855.12	13.68	15.02	-95.04	-363.24	-20.28	364.08	336.43	27.66	13.165		
4,000.00	3,998.56	3,981.21	3,953.30	14.04	15.45	-94.40	-376.19	-25.42	376.34	347.96	28.38	13.260		
4,100.00	4,098.51	4,080.37	4,051.48	14.40	15.87	-93.80	-389.15	-30.56	388.64	359.54	29.11	13.352		
4,200.00	4,198.46	4,179.53	4,149.65	14.76	16.30	-93.24	-402.10	-35.69	400.98	371.15	29.83	13.440		
4,300.00	4,298.40	4,278.69	4,247.83	15.13	16.72	-92.71	-415.06	-40.83	413.36	382.80	30.56	13.526		
4,400.00	4,398.35	4,377.85	4,346.01	15.49	17.15	-92.21	-428.01	-45.97	425.77	394.48	31.29	13.608		
4,500.00	4,498.30	4,477.01	4,444.18	15.85	17.57	-91.74	-440.96	-51.10	438.21	406.19	32.01	13.688		
4,600.00	4,598.25	4,576.17	4,542.36	16.21	18.00	-91.29	-453.92	-56.24	450.68	417.93	32.74	13.764		
4,700.00	4,698.19	4,675.33	4,640.54	16.57	18.43	-90.87	-466.87	-61.38	463.17	429.70	33.47	13.839		
4,800.00	4,798.14	4,774.49	4,738.71	16.93	18.85	-90.47	-479.83	-66.51	475.68	441.49	34.20	13.910		
4,900.00	4,898.09	4,873.65	4,836.89	17.29	19.28	-90.10	-492.78	-71.65	488.22	453.30	34.92	13.979		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,998.04	4,972.81	4,935.07	17.66	19.71	-89.74	-505.74	-76.79	500.78	465.13	35.65	14.046		
5,100.00	5,097.98	5,071.98	5,033.24	18.02	20.13	-89.40	-518.69	-81.92	513.35	476.97	36.38	14.111		
5,200.00	5,197.93	5,171.14	5,131.42	18.38	20.56	-89.07	-531.65	-87.06	525.95	488.84	37.11	14.173		
5,300.00	5,297.88	5,270.30	5,229.60	18.74	20.99	-88.76	-544.60	-92.20	538.56	500.72	37.84	14.233		
5,400.00	5,397.83	5,369.46	5,327.77	19.10	21.41	-88.46	-557.56	-97.33	551.18	512.61	38.57	14.292		
5,500.00	5,497.77	5,468.62	5,425.95	19.46	21.84	-88.18	-570.51	-102.47	563.82	524.52	39.29	14.348		
5,600.00	5,597.72	5,567.78	5,524.13	19.83	22.27	-87.91	-583.46	-107.61	576.47	536.44	40.02	14.403		
5,700.00	5,697.67	5,666.94	5,622.30	20.19	22.70	-87.65	-596.42	-112.74	589.13	548.38	40.75	14.456		
5,800.00	5,797.62	5,766.10	5,720.48	20.55	23.12	-87.40	-609.37	-117.88	601.80	560.32	41.48	14.508		
5,900.00	5,897.56	5,865.26	5,818.65	20.91	23.55	-87.17	-622.33	-123.02	614.49	572.28	42.21	14.558		
6,000.00	5,997.51	5,964.42	5,916.83	21.27	23.98	-86.94	-635.28	-128.15	627.18	584.24	42.94	14.606		
6,100.00	6,097.46	6,063.58	6,015.01	21.64	24.41	-86.72	-648.24	-133.29	639.88	596.22	43.67	14.653		
6,200.00	6,197.41	6,162.74	6,113.18	22.00	24.84	-86.51	-661.19	-138.43	652.60	608.20	44.40	14.699		
6,300.00	6,297.35	6,261.90	6,211.36	22.36	25.26	-86.31	-674.15	-143.56	665.32	620.19	45.13	14.743		
6,400.00	6,397.30	6,361.07	6,309.54	22.72	25.69	-86.11	-687.10	-148.70	678.05	632.19	45.86	14.786		
6,500.00	6,497.25	6,460.23	6,407.71	23.08	26.12	-85.92	-700.06	-153.84	690.78	644.20	46.59	14.828		
6,600.00	6,597.20	6,559.39	6,505.89	23.45	26.55	-85.74	-713.01	-158.98	703.53	656.21	47.32	14.868		
6,700.00	6,697.14	6,658.55	6,604.07	23.81	26.98	-85.57	-725.96	-164.11	716.28	668.23	48.05	14.908		
6,800.00	6,797.09	6,757.71	6,702.24	24.17	27.40	-85.40	-738.92	-169.25	729.03	680.25	48.78	14.946		
6,900.00	6,897.04	6,856.87	6,800.42	24.53	27.83	-85.24	-751.87	-174.39	741.79	692.29	49.51	14.984		
7,000.00	6,996.99	6,961.00	6,903.52	24.90	28.28	-85.08	-765.41	-179.75	754.51	704.24	50.27	15.008		
7,062.22	7,059.17	7,042.97	6,984.91	25.12	28.62	-85.00	-774.50	-183.36	761.23	710.37	50.86	14.967		
7,100.00	7,096.94	7,092.97	7,034.67	25.26	28.82	-85.03	-778.98	-185.14	764.53	713.33	51.20	14.932		
7,155.06	7,152.00	7,166.05	7,107.54	25.45	29.09	-85.85	-784.08	-187.16	768.32	716.65	51.67	14.871		
7,185.06	7,182.00	7,205.95	7,147.39	25.55	29.24	-85.85	-786.13	-187.97	769.86	717.95	51.91	14.832		
7,200.00	7,196.94	7,225.85	7,167.26	25.61	29.30	-85.85	-786.96	-188.30	770.49	718.46	52.02	14.810		
7,250.00	7,246.80	7,292.35	7,233.73	25.79	29.53	-90.42	-788.81	-189.03	771.89	719.47	52.43	14.724		
7,300.00	7,296.17	7,354.79	7,296.17	25.98	29.72	-91.08	-789.25	-189.21	772.34	719.52	52.82	14.623		
7,350.00	7,344.67	7,404.67	7,346.04	26.19	29.87	-91.89	-789.25	-189.99	772.64	719.42	53.21	14.519		
7,400.00	7,391.93	7,456.18	7,397.28	26.40	30.04	-92.73	-789.23	-195.00	773.12	719.48	53.63	14.415		
7,450.00	7,437.60	7,508.85	7,449.01	26.62	30.22	-93.55	-789.18	-204.86	773.76	719.69	54.07	14.309		
7,500.00	7,481.32	7,562.74	7,500.76	26.85	30.42	-94.36	-789.12	-219.81	774.55	720.02	54.53	14.204		
7,550.00	7,522.76	7,617.89	7,552.03	27.09	30.63	-95.14	-789.03	-240.08	775.47	720.46	55.01	14.098		
7,600.00	7,561.61	7,674.34	7,602.24	27.36	30.86	-95.90	-788.92	-265.82	776.48	720.98	55.50	13.990		
7,650.00	7,597.57	7,732.09	7,650.73	27.65	31.10	-96.61	-788.79	-297.14	777.55	721.53	56.03	13.878		
7,700.00	7,630.37	7,791.13	7,696.79	27.96	31.36	-97.27	-788.63	-334.03	778.65	722.07	56.59	13.761		
7,750.00	7,659.76	7,851.41	7,739.65	28.32	31.65	-97.88	-788.45	-376.39	779.74	722.54	57.20	13.633		
7,800.00	7,685.51	7,912.88	7,778.52	28.71	31.97	-98.41	-788.25	-423.97	780.77	722.89	57.88	13.490		
7,850.00	7,707.43	7,975.43	7,812.61	29.14	32.33	-98.88	-788.02	-476.37	781.70	723.06	58.64	13.331		
7,900.00	7,725.35	8,038.91	7,841.17	29.62	32.75	-99.26	-787.78	-533.02	782.50	723.00	59.50	13.151		
7,950.00	7,739.14	8,103.16	7,863.52	30.14	33.25	-99.55	-787.52	-593.23	783.12	722.65	60.48	12.949		
8,000.00	7,748.69	8,167.97	7,879.09	30.71	33.82	-99.74	-787.25	-656.10	783.55	721.97	61.58	12.723		
8,050.00	7,753.92	8,233.12	7,887.49	31.31	34.47	-99.84	-786.98	-720.68	783.77	720.96	62.81	12.478		
8,085.13	7,755.00	8,278.98	7,888.98	31.75	34.97	-99.84	-786.78	-766.49	783.78	720.04	63.73	12.298		
8,085.76	7,755.00	8,279.80	7,888.98	31.76	34.98	-99.84	-786.78	-767.32	783.78	720.03	63.75	12.294		
8,100.00	7,755.00	8,292.84	7,889.00	31.94	35.13	-99.84	-786.72	-780.36	783.78	719.67	64.11	12.225		
8,200.00	7,755.00	8,392.85	7,889.00	33.33	36.39	-99.84	-786.29	-880.36	783.79	716.91	66.88	11.719		
8,300.00	7,755.00	8,492.85	7,889.00	34.87	37.81	-99.84	-785.87	-980.36	783.80	713.86	69.94	11.206		
8,400.00	7,755.00	8,592.85	7,889.00	36.54	39.38	-99.84	-785.44	-1,080.36	783.81	710.55	73.26	10.699		
8,500.00	7,755.00	8,692.85	7,888.99	38.33	41.07	-99.84	-785.01	-1,180.36	783.81	707.01	76.80	10.206		
8,600.00	7,755.00	8,792.85	7,888.99	40.22	42.88	-99.84	-784.58	-1,280.36	783.82	703.29	80.53	9.733		
8,700.00	7,755.00	8,892.85	7,888.99	42.19	44.78	-99.84	-784.15	-1,380.36	783.83	699.39	84.44	9.283		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	7,755.00	8,992.85	7,888.99	44.24	46.77	-99.84	-783.72	-1,480.36	783.83	695.34	88.49	8.858		
8,900.00	7,755.00	9,092.85	7,888.99	46.36	48.82	-99.84	-783.29	-1,580.36	783.84	691.17	92.67	8.459		
9,000.00	7,755.00	9,192.86	7,888.99	48.54	50.94	-99.84	-782.86	-1,680.37	783.85	686.89	96.96	8.085		
9,100.00	7,755.00	9,292.86	7,888.99	50.76	53.11	-99.84	-782.43	-1,780.37	783.85	682.51	101.34	7.735		
9,200.00	7,755.00	9,392.86	7,888.99	53.03	55.33	-99.84	-782.00	-1,880.37	783.86	678.05	105.81	7.408		
9,300.00	7,755.00	9,492.86	7,888.99	55.33	57.59	-99.84	-781.57	-1,980.37	783.87	673.51	110.36	7.103		
9,400.00	7,755.00	9,592.86	7,888.99	57.67	59.89	-99.84	-781.14	-2,080.37	783.87	668.91	114.97	6.818		
9,500.00	7,755.00	9,692.86	7,888.98	60.03	62.22	-99.84	-780.71	-2,180.37	783.88	664.24	119.63	6.552		
9,600.00	7,755.00	9,792.86	7,888.98	62.43	64.57	-99.84	-780.28	-2,280.37	783.88	659.53	124.35	6.304		
9,700.00	7,755.00	9,892.86	7,888.98	64.84	66.96	-99.84	-779.85	-2,380.37	783.89	654.77	129.12	6.071		
9,800.00	7,755.00	9,992.87	7,888.98	67.28	69.36	-99.84	-779.42	-2,480.37	783.89	649.97	133.93	5.853		
9,900.00	7,755.00	10,092.87	7,888.98	69.74	71.79	-99.84	-778.99	-2,580.37	783.90	645.13	138.77	5.649		
10,000.00	7,755.00	10,192.87	7,888.98	72.21	74.24	-99.84	-778.56	-2,680.37	783.90	640.26	143.64	5.457		
10,100.00	7,755.00	10,292.87	7,888.98	74.70	76.70	-99.84	-778.13	-2,780.37	783.91	635.36	148.55	5.277		
10,200.00	7,755.00	10,392.87	7,888.98	77.20	79.18	-99.84	-777.70	-2,880.37	783.91	630.43	153.48	5.108		
10,300.00	7,755.00	10,492.87	7,888.98	79.71	81.67	-99.84	-777.27	-2,980.37	783.92	625.48	158.44	4.948		
10,400.00	7,755.00	10,592.87	7,888.98	82.24	84.17	-99.84	-776.83	-3,080.37	783.92	620.50	163.42	4.797		
10,500.00	7,755.00	10,692.87	7,888.98	84.77	86.69	-99.84	-776.40	-3,180.37	783.93	615.51	168.42	4.655		
10,600.00	7,755.00	10,792.88	7,888.98	87.32	89.21	-99.84	-775.97	-3,280.37	783.93	610.50	173.43	4.520		
10,700.00	7,755.00	10,892.88	7,888.98	89.87	91.74	-99.84	-775.54	-3,380.37	783.93	605.47	178.47	4.393		
10,800.00	7,755.00	10,992.88	7,888.97	92.43	94.29	-99.84	-775.11	-3,480.37	783.94	600.42	183.52	4.272		
10,900.00	7,755.00	11,092.88	7,888.97	95.00	96.84	-99.84	-774.67	-3,580.37	783.94	595.36	188.58	4.157		
11,000.00	7,755.00	11,192.88	7,888.97	97.57	99.40	-99.84	-774.24	-3,680.37	783.95	590.29	193.66	4.048		
11,100.00	7,755.00	11,292.88	7,888.97	100.15	101.96	-99.84	-773.81	-3,780.37	783.95	585.20	198.75	3.944		
11,200.00	7,755.00	11,392.88	7,888.97	102.74	104.54	-99.84	-773.37	-3,880.37	783.95	580.10	203.85	3.846		
11,300.00	7,755.00	11,492.88	7,888.97	105.33	107.11	-99.84	-772.94	-3,980.37	783.95	574.99	208.96	3.752		
11,400.00	7,755.00	11,592.89	7,888.97	107.92	109.70	-99.84	-772.51	-4,080.37	783.96	569.88	214.08	3.662		
11,500.00	7,755.00	11,692.89	7,888.97	110.52	112.28	-99.84	-772.07	-4,180.37	783.96	564.75	219.21	3.576		
11,600.00	7,755.00	11,792.89	7,888.97	113.13	114.88	-99.84	-771.64	-4,280.37	783.96	559.61	224.35	3.494		
11,700.00	7,755.00	11,892.89	7,888.97	115.74	117.47	-99.84	-771.21	-4,380.37	783.96	554.47	229.49	3.416		
11,800.00	7,755.00	11,992.89	7,888.97	118.35	120.08	-99.84	-770.77	-4,480.37	783.97	549.32	234.65	3.341		
11,900.00	7,755.00	12,092.89	7,888.97	120.96	122.68	-99.84	-770.34	-4,580.38	783.97	544.16	239.81	3.269		
12,000.00	7,755.00	12,192.89	7,888.97	123.58	125.29	-99.84	-769.90	-4,680.38	783.97	539.00	244.97	3.200		
12,100.00	7,755.00	12,292.90	7,888.97	126.20	127.90	-99.84	-769.47	-4,780.38	783.97	533.83	250.15	3.134		
12,200.00	7,755.00	12,392.90	7,888.97	128.83	130.52	-99.84	-769.03	-4,880.38	783.97	528.65	255.32	3.071		
12,300.00	7,755.00	12,492.90	7,888.97	131.46	133.14	-99.84	-768.60	-4,980.38	783.97	523.47	260.51	3.009		
12,400.00	7,755.00	12,592.90	7,888.97	134.09	135.76	-99.84	-768.16	-5,080.38	783.97	518.28	265.69	2.951		
12,500.00	7,755.00	12,692.90	7,888.97	136.72	138.38	-99.84	-767.73	-5,180.38	783.98	513.09	270.89	2.894		
12,600.00	7,755.00	12,792.90	7,888.97	139.35	141.01	-99.84	-767.29	-5,280.38	783.98	507.89	276.08	2.840		
12,700.00	7,755.00	12,892.90	7,888.97	141.99	143.64	-99.84	-766.86	-5,380.38	783.98	502.69	281.29	2.787		
12,800.00	7,755.00	12,992.90	7,888.97	144.63	146.27	-99.84	-766.42	-5,480.38	783.98	497.49	286.49	2.736		
12,900.00	7,755.00	13,092.91	7,888.97	147.27	148.90	-99.84	-765.99	-5,580.38	783.98	492.28	291.70	2.688		
13,000.00	7,754.99	13,192.91	7,888.97	149.91	151.54	-99.84	-765.55	-5,680.38	783.98	487.06	296.91	2.640		
13,100.00	7,754.99	13,292.91	7,888.97	152.55	154.17	-99.84	-765.11	-5,780.38	783.98	481.85	302.13	2.595		
13,200.00	7,754.99	13,392.91	7,888.97	155.20	156.81	-99.84	-764.68	-5,880.38	783.98	476.63	307.35	2.551		
13,300.00	7,754.99	13,492.91	7,888.97	157.84	159.45	-99.84	-764.24	-5,980.38	783.98	471.41	312.57	2.508		
13,400.00	7,754.99	13,592.91	7,888.97	160.49	162.09	-99.84	-763.80	-6,080.38	783.98	466.18	317.79	2.467		
13,500.00	7,754.99	13,692.91	7,888.97	163.14	164.74	-99.84	-763.37	-6,180.38	783.98	460.95	323.02	2.427		
13,600.00	7,754.99	13,792.91	7,888.97	165.79	167.38	-99.84	-762.93	-6,280.38	783.97	455.72	328.25	2.388		
13,700.00	7,754.99	13,892.92	7,888.97	168.44	170.03	-99.84	-762.49	-6,380.38	783.97	450.49	333.49	2.351		
13,800.00	7,754.99	13,992.92	7,888.97	171.10	172.68	-99.84	-762.05	-6,480.38	783.97	445.25	338.72	2.315		
13,900.00	7,754.99	14,092.92	7,888.97	173.75	175.33	-99.84	-761.62	-6,580.38	783.97	440.01	343.96	2.279		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,000.00	7,754.99	14,192.92	7,888.97	176.41	177.98	-99.84	-761.18	-6,680.38	783.97	434.77	349.20	2.245			
14,100.00	7,754.99	14,292.92	7,888.97	179.06	180.63	-99.84	-760.74	-6,780.38	783.97	429.53	354.44	2.212			
14,200.00	7,754.99	14,392.92	7,888.97	181.72	183.28	-99.84	-760.30	-6,880.38	783.97	424.28	359.68	2.180			
14,300.00	7,754.99	14,492.92	7,888.97	184.38	185.94	-99.84	-759.86	-6,980.38	783.96	419.03	364.93	2.148			
14,400.00	7,754.99	14,592.92	7,888.97	187.04	188.59	-99.84	-759.42	-7,080.38	783.96	413.79	370.18	2.118			
14,500.00	7,754.99	14,692.93	7,888.97	189.70	191.25	-99.84	-758.99	-7,180.38	783.96	408.53	375.43	2.088			
14,600.00	7,754.99	14,792.93	7,888.97	192.36	193.90	-99.84	-758.55	-7,280.38	783.96	403.28	380.68	2.059			
14,700.00	7,754.99	14,892.93	7,888.97	195.02	196.56	-99.84	-758.11	-7,380.38	783.95	398.03	385.93	2.031			
14,800.00	7,754.99	14,992.93	7,888.97	197.68	199.22	-99.84	-757.67	-7,480.38	783.95	392.77	391.18	2.004			
14,900.00	7,754.99	15,092.93	7,888.97	200.34	201.88	-99.84	-757.23	-7,580.38	783.95	387.51	396.44	1.977			
15,000.00	7,754.99	15,192.93	7,888.97	203.01	204.54	-99.84	-756.79	-7,680.39	783.94	382.25	401.69	1.952			
15,100.00	7,754.99	15,292.93	7,888.97	205.67	207.20	-99.84	-756.35	-7,780.39	783.94	376.99	406.95	1.926			
15,200.00	7,754.99	15,392.93	7,888.98	208.34	209.86	-99.84	-755.91	-7,880.39	783.94	371.73	412.21	1.902			
15,300.00	7,754.99	15,492.94	7,888.98	211.00	212.52	-99.84	-755.47	-7,980.39	783.93	366.46	417.47	1.878			
15,400.00	7,754.99	15,592.94	7,888.98	213.67	215.19	-99.84	-755.03	-8,080.39	783.93	361.20	422.73	1.854			
15,500.00	7,754.99	15,692.94	7,888.98	216.34	217.85	-99.84	-754.59	-8,180.39	783.93	355.93	428.00	1.832			
15,600.00	7,754.99	15,792.94	7,888.98	219.00	220.51	-99.84	-754.15	-8,280.39	783.92	350.66	433.26	1.809			
15,700.00	7,754.99	15,892.94	7,888.98	221.67	223.18	-99.84	-753.71	-8,380.39	783.92	345.39	438.53	1.788			
15,800.00	7,754.99	15,992.94	7,888.98	224.34	225.84	-99.84	-753.27	-8,480.39	783.91	340.12	443.79	1.766			
15,900.00	7,754.99	16,092.94	7,888.98	227.01	228.51	-99.84	-752.83	-8,580.39	783.91	334.85	449.06	1.746			
16,000.00	7,754.99	16,192.95	7,888.98	229.68	231.18	-99.84	-752.38	-8,680.39	783.90	329.58	454.33	1.725			
16,100.00	7,754.99	16,292.95	7,888.98	232.35	233.84	-99.84	-751.94	-8,780.39	783.90	324.30	459.60	1.706			
16,200.00	7,754.99	16,392.95	7,888.98	235.02	236.51	-99.84	-751.50	-8,880.39	783.89	319.03	464.87	1.686			
16,300.00	7,754.99	16,492.95	7,888.98	237.69	239.18	-99.84	-751.06	-8,980.39	783.89	313.75	470.14	1.667			
16,400.00	7,754.99	16,592.95	7,888.98	240.36	241.85	-99.84	-750.62	-9,080.39	783.88	308.47	475.41	1.649			
16,500.00	7,754.99	16,692.95	7,888.99	243.03	244.52	-99.84	-750.18	-9,180.39	783.88	303.20	480.68	1.631			
16,600.00	7,754.99	16,792.95	7,888.99	245.71	247.19	-99.84	-749.73	-9,280.39	783.87	297.92	485.95	1.613			
16,700.00	7,754.99	16,892.95	7,888.99	248.38	249.86	-99.84	-749.29	-9,380.39	783.87	292.64	491.23	1.596			
16,800.00	7,754.99	16,992.96	7,888.99	251.05	252.53	-99.84	-748.85	-9,480.39	783.86	287.36	496.50	1.579			
16,900.00	7,754.99	17,092.96	7,888.99	253.72	255.20	-99.84	-748.41	-9,580.39	783.85	282.07	501.78	1.562			
17,000.00	7,754.99	17,192.96	7,888.99	256.40	257.87	-99.84	-747.96	-9,680.39	783.85	276.79	507.05	1.546			
17,100.00	7,754.99	17,292.96	7,888.99	259.07	260.54	-99.84	-747.52	-9,780.39	783.84	271.51	512.33	1.530			
17,200.00	7,754.99	17,392.96	7,888.99	261.75	263.21	-99.84	-747.08	-9,880.39	783.83	266.22	517.61	1.514			
17,300.00	7,754.99	17,492.96	7,888.99	264.42	265.89	-99.84	-746.63	-9,980.39	783.83	260.94	522.89	1.499	Level 3		
17,400.00	7,754.99	17,592.96	7,889.00	267.10	268.56	-99.84	-746.19	-10,080.39	783.82	255.65	528.17	1.484	Level 3		
17,500.00	7,754.99	17,692.96	7,889.00	269.77	271.23	-99.84	-745.74	-10,180.39	783.81	250.37	533.44	1.469	Level 3		
17,600.00	7,754.99	17,792.97	7,889.00	272.45	273.91	-99.84	-745.30	-10,280.39	783.80	245.08	538.72	1.455	Level 3		
17,700.00	7,754.99	17,892.97	7,889.00	275.12	276.58	-99.84	-744.86	-10,380.39	783.80	239.79	544.01	1.441	Level 3		
17,768.61	7,755.00	17,961.58	7,889.00	276.96	278.41	-99.84	-744.55	-10,449.01	783.79	236.16	547.63	1.431	Level 3, SF		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	143.44	143.44					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	143.44	143.44	143.17	0.27	533.513		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	143.44	143.44	142.45	0.99	145.504		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	143.44	143.44	141.73	1.70	84.239		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	143.44	143.44	141.02	2.42	59.279		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	143.44	143.44	140.30	3.14	45.730		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	143.44	143.44	139.58	3.85	37.222		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	143.44	143.44	138.87	4.57	31.383		
800.00	800.00	801.34	801.32	2.64	2.63	90.69	-1.72	142.95	142.97	137.69	5.27	27.106		
900.00	900.00	902.42	902.26	3.00	2.97	92.78	-6.88	141.49	141.68	135.71	5.97	23.742		
1,000.00	1,000.00	1,003.01	1,002.44	3.36	3.31	96.32	-15.41	139.08	139.95	133.28	6.67	20.981		
1,100.00	1,100.00	1,102.85	1,101.52	3.72	3.67	101.34	-27.21	135.74	138.45	131.06	7.39	18.741		
1,171.28	1,171.28	1,173.43	1,171.28	3.97	3.94	105.79	-37.56	132.82	138.02	130.11	7.91	17.447	CC	
1,200.00	1,200.00	1,201.71	1,199.15	4.08	4.04	107.78	-42.17	131.51	138.11	129.99	8.12	17.006	ES	
1,292.85	1,292.83	1,292.54	1,288.32	4.40	4.41	-150.26	-58.76	126.82	141.15	132.34	8.81	16.026		
1,300.00	1,299.98	1,300.47	1,295.17	4.43	4.44	-149.72	-60.14	126.43	141.59	132.72	8.87	15.971		
1,400.00	1,399.93	1,402.42	1,391.11	4.77	4.88	-142.62	-79.58	120.93	148.96	139.33	9.62	15.478		
1,500.00	1,499.87	1,504.38	1,487.04	5.12	5.33	-136.25	-99.02	115.44	158.45	148.06	10.38	15.259		
1,600.00	1,599.82	1,606.34	1,582.98	5.46	5.79	-130.64	-118.46	109.94	169.70	158.56	11.14	15.233		
1,700.00	1,699.77	1,708.30	1,678.92	5.81	6.25	-125.75	-137.89	104.44	182.40	170.50	11.89	15.337		
1,800.00	1,799.72	1,789.74	1,774.86	6.16	6.63	-121.51	-157.33	98.95	196.25	183.70	12.55	15.636		
1,900.00	1,899.66	1,887.78	1,870.80	6.52	7.09	-117.84	-176.77	93.45	211.03	197.75	13.28	15.892		
2,000.00	1,999.61	1,985.83	1,966.74	6.87	7.56	-114.65	-196.21	87.95	226.56	212.55	14.00	16.178		
2,100.00	2,099.56	2,083.87	2,062.67	7.22	8.03	-111.87	-215.65	82.46	242.69	227.97	14.73	16.478		
2,200.00	2,199.51	2,181.91	2,158.61	7.58	8.50	-109.44	-235.08	76.96	259.32	243.87	15.45	16.782		
2,300.00	2,299.45	2,279.95	2,254.55	7.94	8.97	-107.30	-254.52	71.46	276.35	260.18	16.18	17.084		
2,400.00	2,399.40	2,377.99	2,350.49	8.29	9.45	-105.41	-273.96	65.97	293.72	276.82	16.90	17.381		
2,500.00	2,499.35	2,476.03	2,446.43	8.65	9.93	-103.74	-293.40	60.47	311.36	293.74	17.62	17.668		
2,600.00	2,599.30	2,574.08	2,542.36	9.01	10.41	-102.24	-312.84	54.97	329.23	310.89	18.35	17.945		
2,700.00	2,699.24	2,672.12	2,638.30	9.37	10.89	-100.89	-332.27	49.48	347.30	328.23	19.07	18.210		
2,800.00	2,799.19	2,770.16	2,734.24	9.72	11.37	-99.68	-351.71	43.98	365.54	345.75	19.80	18.464		
2,900.00	2,899.14	2,868.20	2,830.18	10.08	11.85	-98.59	-371.15	38.48	383.92	363.40	20.52	18.707		
3,000.00	2,999.09	2,966.24	2,926.12	10.44	12.34	-97.59	-390.59	32.99	402.43	381.18	21.25	18.938		
3,100.00	3,099.03	3,064.28	3,022.05	10.80	12.82	-96.68	-410.03	27.49	421.05	399.07	21.98	19.159		
3,200.00	3,198.98	3,162.33	3,117.99	11.16	13.31	-95.85	-429.47	21.99	439.75	417.05	22.70	19.369		
3,300.00	3,298.93	3,260.37	3,213.93	11.52	13.79	-95.08	-448.90	16.50	458.54	435.11	23.43	19.569		
3,400.00	3,398.88	3,358.41	3,309.87	11.88	14.28	-94.38	-468.34	11.00	477.41	453.25	24.16	19.759		
3,500.00	3,498.82	3,456.45	3,405.81	12.24	14.76	-93.73	-487.78	5.50	496.34	471.45	24.89	19.940		
3,600.00	3,598.77	3,554.49	3,501.74	12.60	15.25	-93.13	-507.22	0.01	515.32	489.70	25.62	20.114		
3,700.00	3,698.72	3,652.53	3,597.68	12.96	15.74	-92.57	-526.66	-5.49	534.36	508.01	26.35	20.279		
3,800.00	3,798.67	3,750.58	3,693.62	13.32	16.23	-92.04	-546.09	-10.99	553.44	526.36	27.08	20.436		
3,900.00	3,898.61	3,848.62	3,789.56	13.68	16.72	-91.56	-565.53	-16.48	572.57	544.75	27.81	20.586		
4,000.00	3,998.56	3,946.66	3,885.50	14.04	17.21	-91.10	-584.97	-21.98	591.73	563.18	28.54	20.730		
4,100.00	4,098.51	4,044.70	3,981.43	14.40	17.70	-90.67	-604.41	-27.48	610.92	581.65	29.28	20.867		
4,200.00	4,198.46	4,142.74	4,077.37	14.76	18.19	-90.27	-623.85	-32.97	630.15	600.14	30.01	20.999		
4,300.00	4,298.40	4,240.78	4,173.31	15.13	18.68	-89.90	-643.28	-38.47	649.40	618.66	30.74	21.125		
4,400.00	4,398.35	4,338.83	4,269.25	15.49	19.17	-89.54	-662.72	-43.97	668.68	637.21	31.47	21.245		
4,500.00	4,498.30	4,436.87	4,365.19	15.85	19.66	-89.20	-682.16	-49.46	687.99	655.78	32.21	21.361		
4,600.00	4,598.25	4,534.91	4,461.12	16.21	20.15	-88.89	-701.60	-54.96	707.31	674.37	32.94	21.472		
4,700.00	4,698.19	4,632.95	4,557.06	16.57	20.64	-88.59	-721.04	-60.46	726.65	692.98	33.67	21.579		
4,800.00	4,798.14	4,730.99	4,653.00	16.93	21.13	-88.30	-740.47	-65.95	746.02	711.61	34.41	21.681		
4,900.00	4,898.09	4,829.03	4,748.94	17.29	21.62	-88.03	-759.91	-71.45	765.40	730.25	35.14	21.780		

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 5-6-6
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 5-6-6	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	4,998.04	4,927.07	4,844.88	17.66	22.11	-87.77	-779.35	-76.95	784.79	748.91	35.88	21.874		
5,100.00	5,097.98	5,025.12	4,940.82	18.02	22.60	-87.53	-798.79	-82.44	804.20	767.59	36.61	21.965		
5,200.00	5,197.93	5,123.16	5,036.75	18.38	23.09	-87.30	-818.23	-87.94	823.63	786.28	37.35	22.053		
5,300.00	5,297.88	5,221.20	5,132.69	18.74	23.58	-87.07	-837.66	-93.44	843.06	804.98	38.08	22.138		
5,400.00	5,397.83	5,319.24	5,228.63	19.10	24.08	-86.86	-857.10	-98.93	862.51	823.69	38.82	22.219		
5,500.00	5,497.77	5,417.28	5,324.57	19.46	24.57	-86.66	-876.54	-104.43	881.97	842.41	39.55	22.298		
5,600.00	5,597.72	5,515.32	5,420.51	19.83	25.06	-86.46	-895.98	-109.93	901.44	861.15	40.29	22.374		
5,700.00	5,697.67	5,613.37	5,516.44	20.19	25.55	-86.28	-915.42	-115.42	920.91	879.89	41.03	22.448		
5,800.00	5,797.62	5,711.41	5,612.38	20.55	26.04	-86.10	-934.85	-120.92	940.40	898.64	41.76	22.519		
5,900.00	5,897.56	5,809.45	5,708.32	20.91	26.54	-85.93	-954.29	-126.41	959.90	917.40	42.50	22.587		
6,000.00	5,997.51	5,907.49	5,804.26	21.27	27.03	-85.76	-973.73	-131.91	979.40	936.17	43.23	22.654		
6,100.00	6,097.46	6,005.53	5,900.20	21.64	27.52	-85.60	-993.17	-137.41	998.91	954.94	43.97	22.718		
6,200.00	6,197.41	6,103.57	5,996.13	22.00	28.01	-85.45	-1,012.61	-142.90	1,018.43	973.72	44.71	22.780		
6,300.00	6,297.35	6,201.62	6,092.07	22.36	28.50	-85.31	-1,032.04	-148.40	1,037.95	992.51	45.44	22.840		
6,400.00	6,397.30	6,300.34	6,188.01	22.72	29.00	-85.17	-1,051.48	-153.90	1,057.48	1,011.30	46.18	22.897		
6,500.00	6,497.25	6,402.30	6,283.95	23.08	29.51	-85.03	-1,070.92	-159.39	1,077.02	1,030.09	46.94	22.946		
6,600.00	6,597.20	6,495.74	6,379.89	23.45	29.98	-84.90	-1,090.36	-164.89	1,096.56	1,048.91	47.66	23.010		
6,700.00	6,697.14	6,606.22	6,475.82	23.81	30.54	-84.77	-1,109.80	-170.39	1,116.11	1,067.67	48.44	23.040		
6,800.00	6,797.09	6,698.14	6,577.96	24.17	31.00	-84.64	-1,130.44	-176.23	1,135.64	1,086.46	49.18	23.092		
6,900.00	6,897.04	6,858.44	6,735.82	24.53	31.74	-84.53	-1,157.11	-183.77	1,152.00	1,101.69	50.31	22.896		
7,000.00	6,996.99	7,021.20	6,897.44	24.90	32.40	-84.53	-1,175.45	-188.95	1,162.99	1,111.66	51.32	22.660		
7,062.22	7,059.17	7,123.26	6,999.23	25.12	32.76	-84.60	-1,182.43	-190.93	1,167.06	1,115.18	51.88	22.496		
7,100.00	7,096.94	7,185.41	7,061.32	25.26	32.96	-84.67	-1,184.97	-191.65	1,168.51	1,116.33	52.19	22.391		
7,155.06	7,152.00	7,276.10	7,152.00	25.45	33.22	-179.86	-1,186.35	-192.04	1,169.31	1,116.73	52.58	22.239		
7,185.06	7,182.00	7,306.10	7,182.00	25.55	33.29	-179.86	-1,186.35	-192.04	1,169.31	1,116.53	52.77	22.158		
7,200.00	7,196.94	7,321.10	7,197.00	25.61	33.33	-90.11	-1,186.35	-192.23	1,169.31	1,116.43	52.87	22.115		
7,250.00	7,246.80	7,371.29	7,247.05	25.79	33.47	-90.11	-1,186.34	-195.74	1,169.30	1,116.08	53.22	21.969		
7,300.00	7,296.17	7,421.49	7,296.61	25.98	33.63	-90.11	-1,186.30	-203.62	1,169.30	1,115.71	53.60	21.816		
7,350.00	7,344.67	7,471.68	7,345.29	26.19	33.79	-90.11	-1,186.25	-215.79	1,169.30	1,115.31	53.99	21.658		
7,400.00	7,391.93	7,521.87	7,392.70	26.40	33.96	-90.10	-1,186.18	-232.18	1,169.30	1,114.90	54.40	21.494		
7,450.00	7,437.60	7,572.05	7,438.50	26.62	34.13	-90.10	-1,186.09	-252.65	1,169.30	1,114.47	54.84	21.324		
7,500.00	7,481.32	7,622.22	7,482.33	26.85	34.31	-90.09	-1,185.98	-277.05	1,169.30	1,114.01	55.30	21.146		
7,550.00	7,522.76	7,672.38	7,523.84	27.09	34.50	-90.09	-1,185.86	-305.17	1,169.30	1,113.52	55.79	20.959		
7,600.00	7,561.61	7,722.54	7,562.73	27.36	34.70	-90.08	-1,185.72	-336.82	1,169.30	1,112.98	56.32	20.760		
7,650.00	7,597.57	7,772.68	7,598.70	27.65	34.91	-90.08	-1,185.57	-371.73	1,169.30	1,112.39	56.91	20.547		
7,700.00	7,630.37	7,822.81	7,631.47	27.96	35.13	-90.07	-1,185.40	-409.64	1,169.30	1,111.75	57.56	20.316		
7,750.00	7,659.76	7,872.92	7,660.80	28.32	35.36	-90.06	-1,185.23	-450.26	1,169.30	1,111.03	58.27	20.066		
7,800.00	7,685.51	7,923.02	7,686.46	28.71	35.62	-90.05	-1,185.04	-493.27	1,169.30	1,110.23	59.07	19.795		
7,850.00	7,707.43	7,973.11	7,708.25	29.14	35.89	-90.04	-1,184.84	-538.35	1,169.30	1,109.35	59.96	19.503		
7,900.00	7,725.35	8,023.18	7,726.03	29.62	36.20	-90.03	-1,184.64	-585.14	1,169.30	1,108.37	60.93	19.191		
7,950.00	7,739.14	8,073.23	7,739.65	30.14	36.54	-90.03	-1,184.43	-633.29	1,169.30	1,107.31	61.99	18.862		
8,000.00	7,748.69	8,123.27	7,749.01	30.71	36.92	-90.02	-1,184.21	-682.42	1,169.30	1,106.16	63.14	18.519		
8,050.00	7,753.92	8,173.29	7,754.06	31.31	37.33	-90.01	-1,184.00	-732.17	1,169.30	1,104.94	64.36	18.167		
8,085.13	7,755.00	8,208.42	7,755.00	31.75	37.65	-90.00	-1,183.84	-767.29	1,169.30	1,104.04	65.26	17.918		
8,100.00	7,755.00	8,223.29	7,755.00	31.94	37.79	-90.00	-1,183.78	-782.16	1,169.30	1,103.64	65.66	17.809		
8,200.00	7,755.00	8,323.29	7,755.00	33.33	38.84	-90.00	-1,183.34	-882.16	1,169.30	1,100.83	68.47	17.077		
8,300.00	7,755.00	8,423.29	7,755.00	34.87	40.05	-90.00	-1,182.90	-982.16	1,169.30	1,097.72	71.58	16.336		
8,400.00	7,755.00	8,523.29	7,755.00	36.54	41.44	-90.00	-1,182.47	-1,082.15	1,169.30	1,094.36	74.94	15.603		
8,500.00	7,755.00	8,623.29	7,755.00	38.33	42.97	-90.00	-1,182.03	-1,182.15	1,169.30	1,090.77	78.53	14.889		
8,600.00	7,755.00	8,723.29	7,755.00	40.22	44.63	-90.00	-1,181.60	-1,282.15	1,169.30	1,086.98	82.32	14.205		
8,700.00	7,755.00	8,823.29	7,755.00	42.19	46.41	-90.00	-1,181.16	-1,382.15	1,169.30	1,083.03	86.27	13.553		
8,800.00	7,755.00	8,923.29	7,755.00	44.24	48.28	-90.00	-1,180.72	-1,482.15	1,169.30	1,078.93	90.38	12.938		

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 5-6-6
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 5-6-6	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	7,755.00	9,023.29	7,755.00	46.36	50.25	-90.00	-1,180.29	-1,582.15	1,169.30	1,074.69	94.61	12.359		
9,000.00	7,755.00	9,123.29	7,755.00	48.54	52.28	-90.00	-1,179.85	-1,682.15	1,169.30	1,070.35	98.95	11.817		
9,100.00	7,755.00	9,223.29	7,755.00	50.76	54.38	-90.00	-1,179.41	-1,782.15	1,169.30	1,065.91	103.39	11.309		
9,200.00	7,755.00	9,323.29	7,754.99	53.03	56.54	-90.00	-1,178.98	-1,882.15	1,169.30	1,061.38	107.92	10.835		
9,300.00	7,755.00	9,423.29	7,754.99	55.33	58.74	-90.00	-1,178.54	-1,982.15	1,169.30	1,056.78	112.53	10.391		
9,400.00	7,755.00	9,523.29	7,754.99	57.67	60.99	-90.00	-1,178.11	-2,082.14	1,169.30	1,052.11	117.19	9.977		
9,500.00	7,755.00	9,623.29	7,754.99	60.03	63.27	-90.00	-1,177.67	-2,182.14	1,169.30	1,047.38	121.92	9.590		
9,600.00	7,755.00	9,723.29	7,754.99	62.43	65.59	-90.00	-1,177.23	-2,282.14	1,169.30	1,042.60	126.70	9.229		
9,700.00	7,755.00	9,823.29	7,754.99	64.84	67.94	-90.00	-1,176.80	-2,382.14	1,169.30	1,037.77	131.53	8.890		
9,800.00	7,755.00	9,923.29	7,754.99	67.28	70.31	-90.00	-1,176.36	-2,482.14	1,169.30	1,032.90	136.40	8.573		
9,900.00	7,755.00	10,023.29	7,754.99	69.74	72.71	-90.00	-1,175.92	-2,582.14	1,169.30	1,028.00	141.31	8.275		
10,000.00	7,755.00	10,123.29	7,754.99	72.21	75.13	-90.00	-1,175.49	-2,682.14	1,169.30	1,023.06	146.25	7.995		
10,100.00	7,755.00	10,223.29	7,754.99	74.70	77.57	-90.00	-1,175.05	-2,782.14	1,169.30	1,018.09	151.22	7.733		
10,200.00	7,755.00	10,323.29	7,754.99	77.20	80.02	-90.00	-1,174.62	-2,882.14	1,169.30	1,013.09	156.21	7.485		
10,300.00	7,755.00	10,423.29	7,754.99	79.71	82.49	-90.00	-1,174.18	-2,982.14	1,169.30	1,008.07	161.23	7.252		
10,400.00	7,755.00	10,523.29	7,754.99	82.24	84.98	-90.00	-1,173.74	-3,082.14	1,169.30	1,003.02	166.28	7.032		
10,500.00	7,755.00	10,623.29	7,754.99	84.77	87.48	-90.00	-1,173.31	-3,182.13	1,169.30	997.96	171.34	6.824		
10,600.00	7,755.00	10,723.29	7,754.99	87.32	89.98	-90.00	-1,172.87	-3,282.13	1,169.30	992.87	176.43	6.628		
10,700.00	7,755.00	10,823.29	7,754.99	89.87	92.50	-90.00	-1,172.43	-3,382.13	1,169.30	987.77	181.53	6.441		
10,800.00	7,755.00	10,923.29	7,754.99	92.43	95.03	-90.00	-1,172.00	-3,482.13	1,169.30	982.65	186.65	6.265		
10,900.00	7,755.00	11,023.29	7,754.99	95.00	97.57	-90.00	-1,171.56	-3,582.13	1,169.30	977.52	191.78	6.097		
11,000.00	7,755.00	11,123.29	7,754.99	97.57	100.12	-90.00	-1,171.13	-3,682.13	1,169.30	972.38	196.92	5.938		
11,100.00	7,755.00	11,223.29	7,754.99	100.15	102.68	-90.00	-1,170.69	-3,782.13	1,169.30	967.22	202.08	5.786		
11,200.00	7,755.00	11,323.29	7,754.99	102.74	105.24	-90.00	-1,170.25	-3,882.13	1,169.30	962.05	207.25	5.642		
11,300.00	7,755.00	11,423.29	7,754.98	105.33	107.81	-90.00	-1,169.82	-3,982.13	1,169.30	956.87	212.43	5.504		
11,400.00	7,755.00	11,523.29	7,754.98	107.92	110.38	-90.00	-1,169.38	-4,082.13	1,169.30	951.68	217.62	5.373		
11,500.00	7,755.00	11,623.29	7,754.98	110.52	112.96	-90.00	-1,168.94	-4,182.12	1,169.30	946.48	222.82	5.248		
11,600.00	7,755.00	11,723.29	7,754.98	113.13	115.55	-90.00	-1,168.51	-4,282.12	1,169.30	941.28	228.03	5.128		
11,700.00	7,755.00	11,823.29	7,754.98	115.74	118.14	-90.00	-1,168.07	-4,382.12	1,169.30	936.06	233.24	5.013		
11,800.00	7,755.00	11,923.29	7,754.98	118.35	120.73	-90.00	-1,167.64	-4,482.12	1,169.30	930.84	238.46	4.903		
11,900.00	7,755.00	12,023.29	7,754.98	120.96	123.33	-90.00	-1,167.20	-4,582.12	1,169.30	925.61	243.69	4.798		
12,000.00	7,755.00	12,123.29	7,754.98	123.58	125.93	-90.00	-1,166.76	-4,682.12	1,169.30	920.37	248.93	4.697		
12,100.00	7,755.00	12,223.29	7,754.98	126.20	128.54	-90.00	-1,166.33	-4,782.12	1,169.30	915.13	254.17	4.600		
12,200.00	7,755.00	12,323.29	7,754.98	128.83	131.15	-90.00	-1,165.89	-4,882.12	1,169.30	909.88	259.42	4.507		
12,300.00	7,755.00	12,423.29	7,754.98	131.46	133.77	-90.00	-1,165.45	-4,982.12	1,169.30	904.63	264.67	4.418		
12,400.00	7,755.00	12,523.29	7,754.98	134.09	136.38	-90.00	-1,165.02	-5,082.12	1,169.30	899.37	269.93	4.332		
12,500.00	7,755.00	12,623.29	7,754.98	136.72	139.00	-90.00	-1,164.58	-5,182.12	1,169.30	894.11	275.20	4.249		
12,600.00	7,755.00	12,723.29	7,754.98	139.35	141.63	-90.00	-1,164.15	-5,282.11	1,169.30	888.84	280.46	4.169		
12,700.00	7,755.00	12,823.29	7,754.98	141.99	144.25	-90.00	-1,163.71	-5,382.11	1,169.30	883.57	285.74	4.092		
12,800.00	7,755.00	12,923.29	7,754.98	144.63	146.88	-90.00	-1,163.27	-5,482.11	1,169.30	878.29	291.01	4.018		
12,900.00	7,755.00	13,023.29	7,754.98	147.27	149.51	-90.00	-1,162.84	-5,582.11	1,169.30	873.01	296.29	3.946		
13,000.00	7,754.99	13,123.29	7,754.98	149.91	152.14	-90.00	-1,162.40	-5,682.11	1,169.30	867.72	301.58	3.877		
13,100.00	7,754.99	13,223.29	7,754.98	152.55	154.78	-90.00	-1,161.96	-5,782.11	1,169.30	862.44	306.86	3.810		
13,200.00	7,754.99	13,323.29	7,754.98	155.20	157.42	-90.00	-1,161.53	-5,882.11	1,169.30	857.15	312.15	3.746		
13,300.00	7,754.99	13,423.29	7,754.97	157.84	160.05	-90.00	-1,161.09	-5,982.11	1,169.30	851.85	317.45	3.683		
13,400.00	7,754.99	13,523.29	7,754.97	160.49	162.70	-90.00	-1,160.66	-6,082.11	1,169.30	846.56	322.74	3.623		
13,500.00	7,754.99	13,623.29	7,754.97	163.14	165.34	-90.00	-1,160.22	-6,182.11	1,169.30	841.26	328.04	3.564		
13,600.00	7,754.99	13,723.29	7,754.97	165.79	167.98	-90.00	-1,159.78	-6,282.10	1,169.30	835.96	333.35	3.508		
13,700.00	7,754.99	13,823.29	7,754.97	168.44	170.63	-90.00	-1,159.35	-6,382.10	1,169.30	830.65	338.65	3.453		
13,800.00	7,754.99	13,923.29	7,754.97	171.10	173.27	-90.00	-1,158.91	-6,482.10	1,169.30	825.34	343.96	3.400		
13,900.00	7,754.99	14,023.29	7,754.97	173.75	175.92	-90.00	-1,158.47	-6,582.10	1,169.30	820.03	349.27	3.348		
14,000.00	7,754.99	14,123.29	7,754.97	176.41	178.57	-90.00	-1,158.04	-6,682.10	1,169.30	814.72	354.58	3.298		

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 5-6-6
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 5-6-6	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,754.99	14,223.29	7,754.97	179.06	181.22	-90.00	-1,157.60	-6,782.10	1,169.30	809.41	359.89	3.249		
14,200.00	7,754.99	14,323.29	7,754.97	181.72	183.88	-90.00	-1,157.17	-6,882.10	1,169.30	804.09	365.21	3.202		
14,300.00	7,754.99	14,423.29	7,754.97	184.38	186.53	-90.00	-1,156.73	-6,982.10	1,169.30	798.78	370.53	3.156		
14,400.00	7,754.99	14,523.29	7,754.97	187.04	189.18	-90.00	-1,156.29	-7,082.10	1,169.30	793.46	375.84	3.111		
14,500.00	7,754.99	14,623.29	7,754.97	189.70	191.84	-90.00	-1,155.86	-7,182.10	1,169.30	788.13	381.17	3.068		
14,600.00	7,754.99	14,723.29	7,754.97	192.36	194.50	-90.00	-1,155.42	-7,282.10	1,169.30	782.81	386.49	3.025		
14,700.00	7,754.99	14,823.29	7,754.97	195.02	197.15	-90.00	-1,154.98	-7,382.09	1,169.30	777.49	391.81	2.984		
14,800.00	7,754.99	14,923.29	7,754.97	197.68	199.81	-90.00	-1,154.55	-7,482.09	1,169.30	772.16	397.14	2.944		
14,900.00	7,754.99	15,023.29	7,754.97	200.34	202.47	-90.00	-1,154.11	-7,582.09	1,169.30	766.83	402.47	2.905		
15,000.00	7,754.99	15,123.29	7,754.97	203.01	205.13	-90.00	-1,153.68	-7,682.09	1,169.30	761.50	407.80	2.867		
15,100.00	7,754.99	15,223.29	7,754.97	205.67	207.79	-90.00	-1,153.24	-7,782.09	1,169.30	756.17	413.13	2.830		
15,200.00	7,754.99	15,323.29	7,754.97	208.34	210.46	-90.00	-1,152.80	-7,882.09	1,169.30	750.84	418.46	2.794		
15,300.00	7,754.99	15,423.29	7,754.97	211.00	213.12	-90.00	-1,152.37	-7,982.09	1,169.30	745.51	423.79	2.759		
15,400.00	7,754.99	15,523.29	7,754.96	213.67	215.78	-90.00	-1,151.93	-8,082.09	1,169.30	740.17	429.13	2.725		
15,500.00	7,754.99	15,623.29	7,754.96	216.34	218.45	-90.00	-1,151.49	-8,182.09	1,169.30	734.84	434.46	2.691		
15,600.00	7,754.99	15,723.29	7,754.96	219.00	221.11	-90.00	-1,151.06	-8,282.09	1,169.30	729.50	439.80	2.659		
15,700.00	7,754.99	15,823.29	7,754.96	221.67	223.78	-90.00	-1,150.62	-8,382.08	1,169.30	724.16	445.14	2.627		
15,800.00	7,754.99	15,923.29	7,754.96	224.34	226.44	-90.00	-1,150.19	-8,482.08	1,169.30	718.82	450.48	2.596		
15,900.00	7,754.99	16,023.29	7,754.96	227.01	229.11	-90.00	-1,149.75	-8,582.08	1,169.30	713.48	455.82	2.565		
16,000.00	7,754.99	16,123.29	7,754.96	229.68	231.78	-90.00	-1,149.31	-8,682.08	1,169.30	708.14	461.16	2.536		
16,100.00	7,754.99	16,223.29	7,754.96	232.35	234.45	-90.00	-1,148.88	-8,782.08	1,169.30	702.80	466.50	2.507		
16,200.00	7,754.99	16,323.29	7,754.96	235.02	237.12	-90.00	-1,148.44	-8,882.08	1,169.30	697.46	471.84	2.478		
16,300.00	7,754.99	16,423.29	7,754.96	237.69	239.79	-90.00	-1,148.00	-8,982.08	1,169.30	692.11	477.19	2.450		
16,400.00	7,754.99	16,523.29	7,754.96	240.36	242.46	-90.00	-1,147.57	-9,082.08	1,169.30	686.77	482.53	2.423		
16,500.00	7,754.99	16,623.29	7,754.96	243.03	245.13	-90.00	-1,147.13	-9,182.08	1,169.30	681.42	487.88	2.397		
16,600.00	7,754.99	16,723.29	7,754.96	245.71	247.80	-90.00	-1,146.70	-9,282.08	1,169.30	676.08	493.22	2.371		
16,700.00	7,754.99	16,823.29	7,754.96	248.38	250.47	-90.00	-1,146.26	-9,382.08	1,169.30	670.73	498.57	2.345		
16,800.00	7,754.99	16,923.29	7,754.96	251.05	253.14	-90.00	-1,145.82	-9,482.07	1,169.30	665.38	503.92	2.320		
16,900.00	7,754.99	17,023.29	7,754.96	253.72	255.81	-90.00	-1,145.39	-9,582.07	1,169.30	660.03	509.27	2.296		
17,000.00	7,754.99	17,123.29	7,754.96	256.40	258.49	-90.00	-1,144.95	-9,682.07	1,169.30	654.68	514.62	2.272		
17,100.00	7,754.99	17,223.29	7,754.96	259.07	261.16	-90.00	-1,144.51	-9,782.07	1,169.30	649.33	519.97	2.249		
17,200.00	7,754.99	17,323.29	7,754.96	261.75	263.83	-90.00	-1,144.08	-9,882.07	1,169.30	643.98	525.32	2.226		
17,300.00	7,754.99	17,423.29	7,754.96	264.42	266.51	-90.00	-1,143.64	-9,982.07	1,169.30	638.63	530.67	2.203		
17,400.00	7,754.99	17,523.29	7,754.96	267.10	269.18	-90.00	-1,143.21	-10,082.07	1,169.30	633.28	536.02	2.181		
17,500.00	7,754.99	17,623.29	7,754.95	269.77	271.86	-90.00	-1,142.77	-10,182.07	1,169.30	627.93	541.37	2.160		
17,600.00	7,754.99	17,723.29	7,754.95	272.45	274.53	-90.00	-1,142.33	-10,282.07	1,169.30	622.57	546.73	2.139		
17,700.00	7,754.99	17,823.30	7,754.97	275.12	277.21	-90.00	-1,141.90	-10,382.07	1,169.30	617.22	552.08	2.118		
17,735.14	7,754.99	17,858.44	7,754.98	276.06	278.15	-90.00	-1,141.74	-10,417.21	1,169.30	615.34	553.96	2.111		
17,768.61	7,755.00	17,891.91	7,755.00	276.96	279.04	-90.00	-1,141.60	-10,450.68	1,169.30	613.55	555.75	2.104 SF		

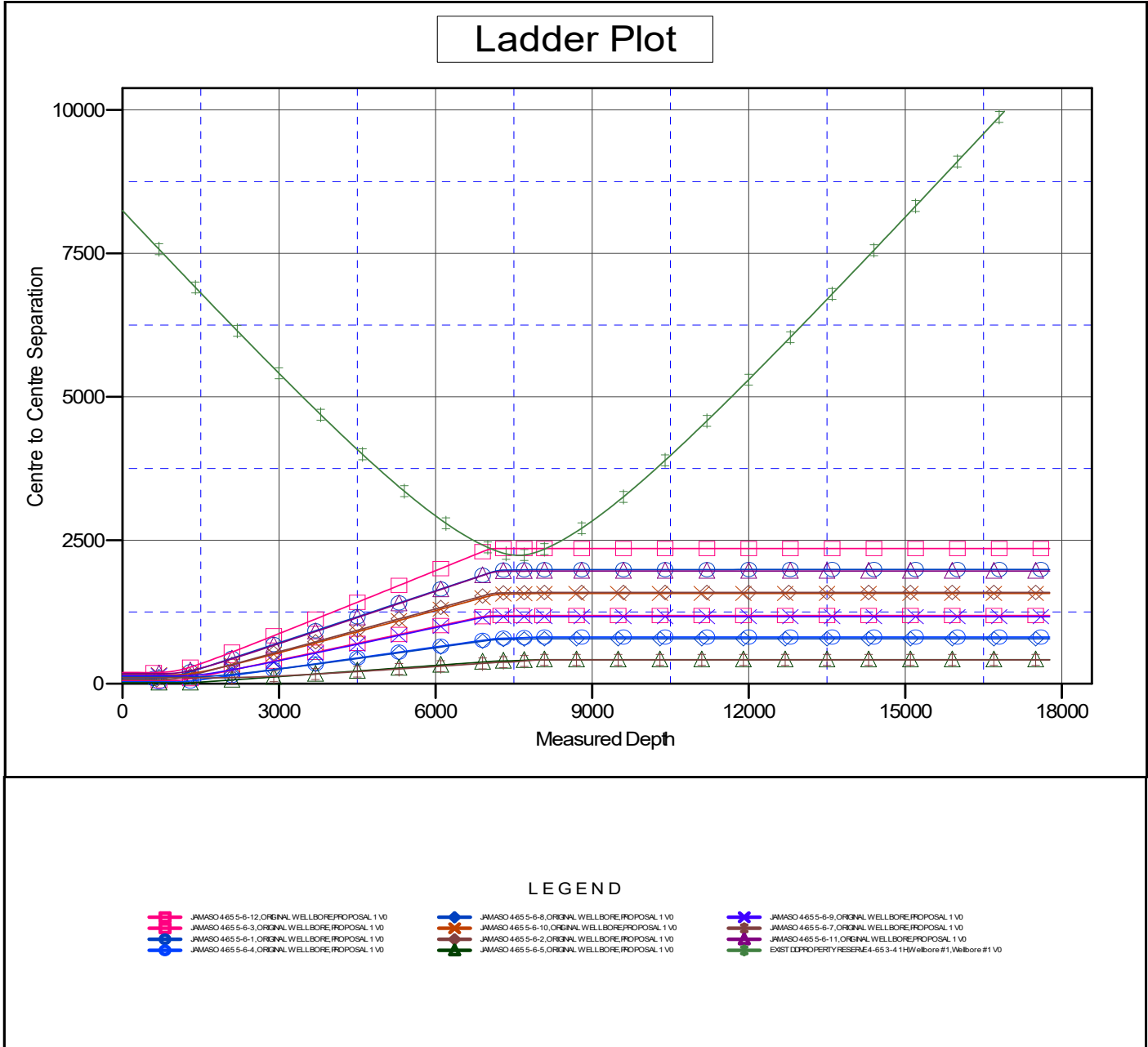
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

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



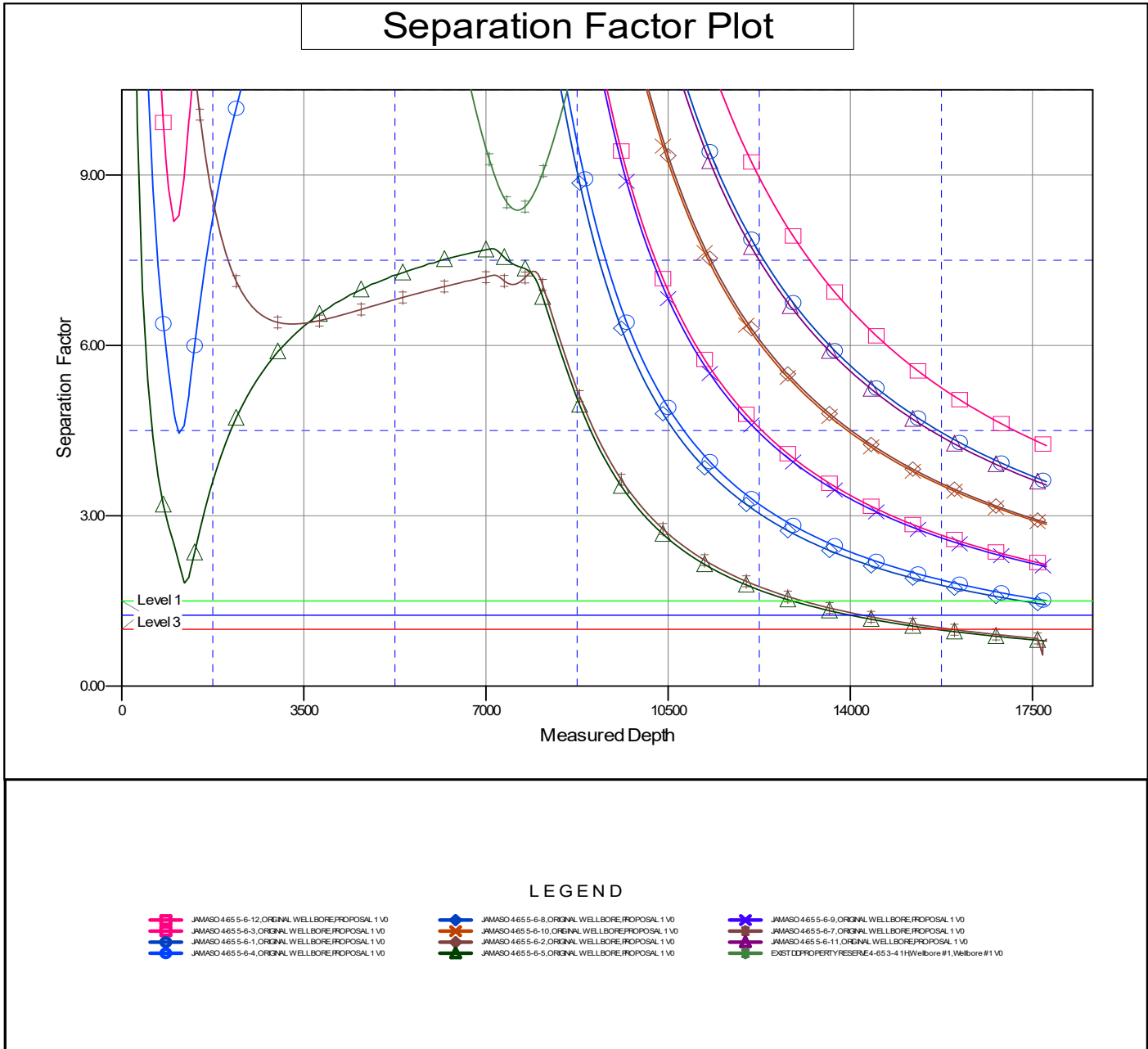
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Anticollision Report

Company: AXIS EXPLORATION	Local Co-ordinate Reference: Well JAMASO 4-65 5-6-6
Project: ARAPAHOE COUNTY	TVD Reference: KB 25' @ 5610.00usft
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Reference Well: JAMASO 4-65 5-6-6	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
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