

AXIS EXPLORATION

ARAPAHOE COUNTY

Sec 4-T4S-R65W

JAMASO 4-65 5-6-3

ORIGINAL WELLBORE

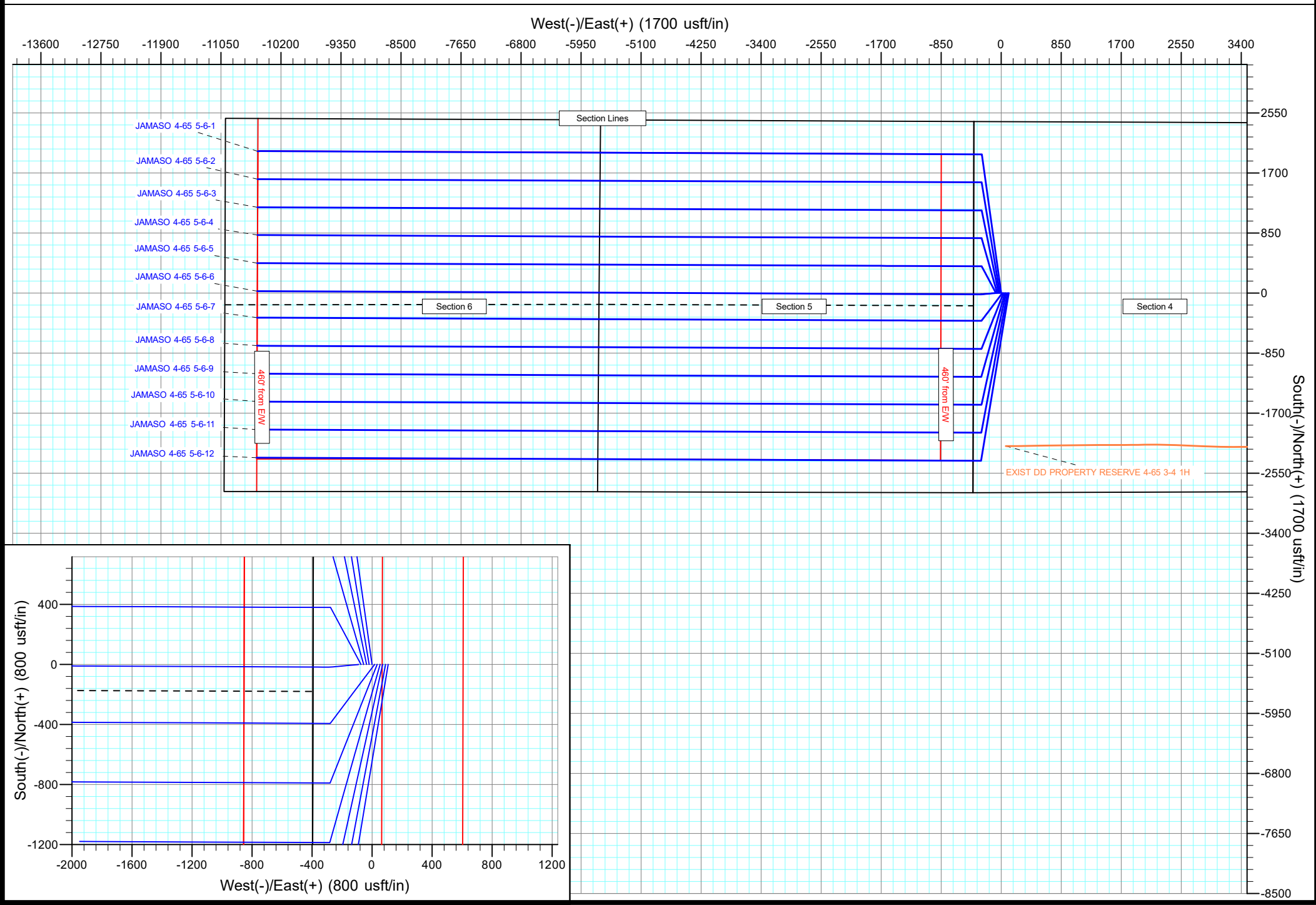
PROPOSAL 1

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 5-6-3
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 5-6-3	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	17,879.50	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	7,694.25	16,985.00	3,393.63	3,119.39	12.375	CC
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,700.00	16,985.00	3,393.64	3,119.38	12.374	ES
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,750.00	16,985.00	3,394.59	3,120.23	12.373	SF
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	369.88	369.98	36.21	34.01	16.416	CC
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	400.00	400.03	36.27	33.84	14.970	ES
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	17,879.50	18,239.20	814.48	272.93	1.504	SF
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	698.75	699.91	106.05	101.53	23.444	CC
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	700.00	701.16	106.05	101.52	23.399	ES
JAMASO 4-65 5-6-10 - ORIGINAL WELLBORE - PROPO	17,879.50	18,153.00	2,756.18	2,200.49	4.960	SF
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	630.94	632.15	124.51	120.45	30.709	CC, ES
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	17,879.50	18,212.39	3,150.14	2,593.61	5.660	SF
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	465.07	466.07	141.52	138.60	48.359	CC
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	500.00	500.66	141.60	138.41	44.379	ES
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	17,879.50	18,210.73	3,544.35	2,987.12	6.361	SF
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	524.95	524.99	16.65	13.34	5.023	CC
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	17,879.50	18,091.15	419.06	-107.64	0.796	Level 1, ES, SF
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	750.47	750.41	19.29	14.36	3.911	CC
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	17,770.85	48,625.80	433.22	-827.24	0.344	Level 1, ES, SF
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	805.08	804.91	35.82	30.50	6.729	CC, ES
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	17,879.50	17,915.18	801.74	253.15	1.461	Level 3, SF
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	847.96	847.65	52.35	46.72	9.296	CC
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	900.00	900.55	52.59	46.57	8.749	ES
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	17,879.50	17,770.55	1,187.52	632.78	2.141	SF
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	600.00	600.00	53.44	49.58	13.867	CC
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	700.00	700.02	53.81	49.24	11.776	ES
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	17,879.50	17,969.25	1,573.17	1,020.28	2.845	SF
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	600.00	600.00	70.31	66.46	18.246	CC
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	700.00	700.02	70.68	66.11	15.467	ES
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	17,879.50	17,963.55	1,964.35	1,409.30	3.539	SF
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	600.00	600.00	90.00	86.15	23.355	CC
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	700.00	699.98	90.37	85.80	19.775	ES
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	17,879.50	17,893.78	2,356.82	1,800.25	4.235	SF

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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		
0.00	0.00	16,985.00	8,060.83	0.00	249.75	177.30	-2,164.51	101.98	8,245.65					
100.00	100.00	16,985.00	8,060.83	0.13	249.75	177.30	-2,164.51	101.98	8,149.21	8,049.34	99.86	81.602		
200.00	200.00	16,985.00	8,060.83	0.49	249.75	177.30	-2,164.51	101.98	8,052.85	7,952.47	100.38	80.227		
300.00	300.00	16,985.00	8,060.83	0.85	249.75	177.30	-2,164.51	101.98	7,956.59	7,855.67	100.91	78.847		
400.00	400.00	16,985.00	8,060.83	1.21	249.75	177.30	-2,164.51	101.98	7,860.41	7,758.94	101.47	77.463		
500.00	500.00	16,985.00	8,060.83	1.57	249.75	177.30	-2,164.51	101.98	7,764.34	7,662.28	102.06	76.076		
600.00	600.00	16,985.00	8,060.83	1.93	249.75	177.30	-2,164.51	101.98	7,668.36	7,565.69	102.67	74.687		
700.00	699.98	16,985.00	8,060.83	2.29	249.75	-172.05	-2,164.51	101.98	7,573.00	7,469.66	103.34	73.284		
800.00	799.84	16,985.00	8,060.83	2.65	249.75	-172.78	-2,164.51	101.98	7,478.88	7,374.79	104.09	71.849		
900.00	899.45	16,985.00	8,060.83	3.01	249.75	-173.38	-2,164.51	101.98	7,386.16	7,281.22	104.95	70.379		
1,000.00	998.70	16,985.00	8,060.83	3.38	249.75	-173.87	-2,164.51	101.98	7,295.02	7,189.10	105.92	68.876		
1,100.00	1,097.47	16,985.00	8,060.83	3.77	249.75	-174.29	-2,164.51	101.98	7,205.62	7,098.62	107.00	67.344		
1,164.39	1,160.75	16,985.00	8,060.83	4.03	249.75	-174.52	-2,164.51	101.98	7,149.06	7,041.30	107.75	66.347		
1,200.00	1,195.67	16,985.00	8,060.83	4.18	249.75	-174.52	-2,164.51	101.98	7,118.03	7,009.84	108.19	65.792		
1,300.00	1,293.73	16,985.00	8,060.83	4.60	249.75	-174.52	-2,164.51	101.98	7,031.12	6,921.64	109.48	64.222		
1,400.00	1,391.80	16,985.00	8,060.83	5.04	249.75	-174.52	-2,164.51	101.98	6,944.57	6,833.75	110.82	62.665		
1,500.00	1,489.86	16,985.00	8,060.83	5.48	249.75	-174.52	-2,164.51	101.98	6,858.39	6,746.17	112.21	61.120		
1,600.00	1,587.93	16,985.00	8,060.83	5.93	249.75	-174.52	-2,164.51	101.98	6,772.58	6,658.93	113.65	59.590		
1,700.00	1,686.00	16,985.00	8,060.83	6.38	249.75	-174.52	-2,164.51	101.98	6,687.17	6,572.02	115.14	58.076		
1,800.00	1,784.06	16,985.00	8,060.83	6.84	249.75	-174.52	-2,164.51	101.98	6,602.17	6,485.48	116.69	56.580		
1,900.00	1,882.13	16,985.00	8,060.83	7.30	249.75	-174.52	-2,164.51	101.98	6,517.59	6,399.31	118.28	55.102		
2,000.00	1,980.19	16,985.00	8,060.83	7.76	249.75	-174.52	-2,164.51	101.98	6,433.45	6,313.52	119.93	53.643		
2,100.00	2,078.26	16,985.00	8,060.83	8.22	249.75	-174.52	-2,164.51	101.98	6,349.78	6,228.15	121.63	52.204		
2,200.00	2,176.32	16,985.00	8,060.83	8.69	249.75	-174.52	-2,164.51	101.98	6,266.59	6,143.20	123.39	50.787		
2,300.00	2,274.39	16,985.00	8,060.83	9.15	249.75	-174.52	-2,164.51	101.98	6,183.89	6,058.69	125.20	49.391		
2,400.00	2,372.45	16,985.00	8,060.83	9.62	249.75	-174.52	-2,164.51	101.98	6,101.71	5,974.64	127.07	48.018		
2,500.00	2,470.52	16,985.00	8,060.83	10.09	249.75	-174.52	-2,164.51	101.98	6,020.07	5,891.07	129.00	46.668		
2,600.00	2,568.59	16,985.00	8,060.83	10.56	249.75	-174.52	-2,164.51	101.98	5,938.99	5,808.01	130.98	45.342		
2,700.00	2,666.65	16,985.00	8,060.83	11.03	249.75	-174.52	-2,164.51	101.98	5,858.50	5,725.47	133.03	44.040		
2,800.00	2,764.72	16,985.00	8,060.83	11.50	249.75	-174.52	-2,164.51	101.98	5,778.61	5,643.48	135.13	42.762		
2,900.00	2,862.78	16,985.00	8,060.83	11.97	249.75	-174.52	-2,164.51	101.98	5,699.36	5,562.06	137.30	41.510		
3,000.00	2,960.85	16,985.00	8,060.83	12.45	249.75	-174.52	-2,164.51	101.98	5,620.77	5,481.24	139.53	40.283		
3,100.00	3,058.91	16,985.00	8,060.83	12.92	249.75	-174.52	-2,164.51	101.98	5,542.88	5,401.05	141.83	39.082		
3,200.00	3,156.98	16,985.00	8,060.83	13.39	249.75	-174.52	-2,164.51	101.98	5,465.70	5,321.51	144.19	37.907		
3,300.00	3,255.05	16,985.00	8,060.83	13.87	249.75	-174.52	-2,164.51	101.98	5,389.27	5,242.66	146.61	36.758		
3,400.00	3,353.11	16,985.00	8,060.83	14.34	249.75	-174.52	-2,164.51	101.98	5,313.62	5,164.52	149.10	35.637		
3,500.00	3,451.18	16,985.00	8,060.83	14.82	249.75	-174.52	-2,164.51	101.98	5,238.80	5,087.13	151.66	34.542		
3,600.00	3,549.24	16,985.00	8,060.83	15.29	249.75	-174.52	-2,164.51	101.98	5,164.82	5,010.53	154.29	33.475		
3,700.00	3,647.31	16,985.00	8,060.83	15.77	249.75	-174.52	-2,164.51	101.98	5,091.73	4,934.75	156.98	32.435		
3,800.00	3,745.37	16,985.00	8,060.83	16.24	249.75	-174.52	-2,164.51	101.98	5,019.57	4,859.83	159.75	31.422		
3,900.00	3,843.44	16,985.00	8,060.83	16.72	249.75	-174.52	-2,164.51	101.98	4,948.38	4,785.81	162.58	30.437		
4,000.00	3,941.50	16,985.00	8,060.83	17.19	249.75	-174.52	-2,164.51	101.98	4,878.20	4,712.73	165.47	29.480		
4,100.00	4,039.57	16,985.00	8,060.83	17.67	249.75	-174.52	-2,164.51	101.98	4,809.08	4,640.64	168.44	28.551		
4,200.00	4,137.64	16,985.00	8,060.83	18.15	249.75	-174.52	-2,164.51	101.98	4,741.06	4,569.59	171.47	27.649		
4,300.00	4,235.70	16,985.00	8,060.83	18.62	249.75	-174.52	-2,164.51	101.98	4,674.18	4,499.62	174.57	26.776		
4,400.00	4,333.77	16,985.00	8,060.83	19.10	249.75	-174.52	-2,164.51	101.98	4,608.51	4,430.78	177.73	25.930		
4,500.00	4,431.83	16,985.00	8,060.83	19.58	249.75	-174.52	-2,164.51	101.98	4,544.09	4,363.14	180.95	25.113		
4,600.00	4,529.90	16,985.00	8,060.83	20.05	249.75	-174.52	-2,164.51	101.98	4,480.97	4,296.74	184.23	24.323		
4,700.00	4,627.96	16,985.00	8,060.83	20.53	249.75	-174.52	-2,164.51	101.98	4,419.22	4,231.65	187.56	23.561		
4,800.00	4,726.03	16,985.00	8,060.83	21.01	249.75	-174.52	-2,164.51	101.98	4,358.88	4,167.93	190.95	22.827		
4,900.00	4,824.10	16,985.00	8,060.83	21.48	249.75	-174.52	-2,164.51	101.98	4,300.03	4,105.64	194.39	22.120		
5,000.00	4,922.16	16,985.00	8,060.83	21.96	249.75	-174.52	-2,164.51	101.98	4,242.71	4,044.84	197.87	21.441		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 83-MWDD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,020.23	16,985.00	8,060.83	22.44	249.75	-174.52	-2,164.51	101.98	4,187.00	3,985.61	201.40	20.790		
5,200.00	5,118.29	16,985.00	8,060.83	22.92	249.75	-174.52	-2,164.51	101.98	4,132.96	3,928.01	204.95	20.166		
5,300.00	5,216.36	16,985.00	8,060.83	23.39	249.75	-174.52	-2,164.51	101.98	4,080.65	3,872.12	208.53	19.569		
5,400.00	5,314.42	16,985.00	8,060.83	23.87	249.75	-174.52	-2,164.51	101.98	4,030.15	3,818.02	212.13	18.998		
5,500.00	5,412.49	16,985.00	8,060.83	24.35	249.75	-174.52	-2,164.51	101.98	3,981.52	3,765.78	215.74	18.455		
5,600.00	5,510.55	16,985.00	8,060.83	24.83	249.75	-174.52	-2,164.51	101.98	3,934.83	3,715.47	219.36	17.938		
5,700.00	5,608.62	16,985.00	8,060.83	25.30	249.75	-174.52	-2,164.51	101.98	3,890.15	3,667.18	222.96	17.447		
5,800.00	5,706.69	16,985.00	8,060.83	25.78	249.75	-174.52	-2,164.51	101.98	3,847.55	3,620.99	226.55	16.983		
5,900.00	5,804.75	16,985.00	8,060.83	26.26	249.75	-174.52	-2,164.51	101.98	3,807.10	3,576.98	230.12	16.544		
6,000.00	5,902.82	16,985.00	8,060.83	26.74	249.75	-174.52	-2,164.51	101.98	3,768.87	3,535.23	233.64	16.131		
6,100.00	6,000.88	16,985.00	8,060.83	27.22	249.75	-174.52	-2,164.51	101.98	3,732.93	3,495.82	237.11	15.743		
6,200.00	6,098.95	16,985.00	8,060.83	27.69	249.75	-174.52	-2,164.51	101.98	3,699.34	3,458.82	240.52	15.381		
6,300.00	6,197.01	16,985.00	8,060.83	28.17	249.75	-174.52	-2,164.51	101.98	3,668.17	3,424.33	243.85	15.043		
6,400.00	6,295.08	16,985.00	8,060.83	28.65	249.75	-174.52	-2,164.51	101.98	3,639.49	3,392.40	247.09	14.729		
6,500.00	6,393.15	16,985.00	8,060.83	29.13	249.75	-174.52	-2,164.51	101.98	3,613.34	3,363.11	250.23	14.440		
6,600.00	6,491.21	16,985.00	8,060.83	29.61	249.75	-174.52	-2,164.51	101.98	3,589.80	3,336.54	253.26	14.175		
6,699.99	6,589.26	16,985.00	8,060.83	30.08	249.75	-174.52	-2,164.51	101.98	3,568.90	3,312.74	256.15	13.933		
6,702.02	6,591.25	16,985.00	8,060.83	30.09	249.75	-174.52	-2,164.51	101.98	3,568.50	3,312.29	256.21	13.928		
6,800.00	6,687.65	16,985.00	8,060.83	30.55	249.75	-174.48	-2,164.51	101.98	3,549.05	3,290.15	258.90	13.708		
6,900.00	6,786.59	16,985.00	8,060.83	30.97	249.75	-174.44	-2,164.51	101.98	3,528.50	3,267.02	261.48	13.494		
7,000.00	6,885.98	16,985.00	8,060.83	31.36	249.75	-174.40	-2,164.51	101.98	3,507.27	3,243.38	263.88	13.291		
7,100.00	6,985.69	16,985.00	8,060.83	31.72	249.75	-174.35	-2,164.51	101.98	3,485.36	3,219.25	266.11	13.097		
7,200.00	7,085.60	16,985.00	8,060.83	32.03	249.75	-174.31	-2,164.51	101.98	3,462.79	3,194.64	268.15	12.913		
7,266.41	7,152.00	16,985.00	8,060.83	32.23	249.75	174.15	-2,164.51	101.98	3,447.45	3,178.04	269.41	12.796		
7,296.41	7,182.00	16,985.00	8,060.83	32.31	249.75	174.15	-2,164.51	101.98	3,440.58	3,170.63	269.95	12.745		
7,300.00	7,185.59	16,985.00	8,060.83	32.32	249.75	-96.18	-2,164.51	101.98	3,439.77	3,169.76	270.01	12.739		
7,350.00	7,235.52	16,985.00	8,060.83	32.46	249.75	-97.26	-2,164.51	101.98	3,429.20	3,158.35	270.85	12.661		
7,400.00	7,285.03	16,985.00	8,060.83	32.61	249.75	-98.20	-2,164.51	101.98	3,419.86	3,148.25	271.61	12.591		
7,450.00	7,333.76	16,985.00	8,060.83	32.76	249.75	-99.00	-2,164.51	101.98	3,411.85	3,139.56	272.29	12.530		
7,500.00	7,381.34	16,985.00	8,060.83	32.92	249.75	-99.66	-2,164.51	101.98	3,405.23	3,132.35	272.88	12.479		
7,550.00	7,427.40	16,985.00	8,060.83	33.09	249.75	-100.17	-2,164.51	101.98	3,400.06	3,126.69	273.37	12.438		
7,600.00	7,471.59	16,985.00	8,060.83	33.26	249.75	-100.54	-2,164.51	101.98	3,396.38	3,122.62	273.76	12.406		
7,650.00	7,513.58	16,985.00	8,060.83	33.44	249.75	-100.75	-2,164.51	101.98	3,394.24	3,120.18	274.06	12.385		
7,694.25	7,548.64	16,985.00	8,060.83	33.60	249.75	-100.81	-2,164.51	101.98	3,393.63	3,119.39	274.24	12.375 CC		
7,700.00	7,553.04	16,985.00	8,060.83	33.62	249.75	-100.81	-2,164.51	101.98	3,393.64	3,119.38	274.26	12.374 ES		
7,750.00	7,589.68	16,985.00	8,060.83	33.82	249.75	-100.71	-2,164.51	101.98	3,394.59	3,120.23	274.36	12.373 SF		
7,800.00	7,623.22	16,985.00	8,060.83	34.03	249.75	-100.47	-2,164.51	101.98	3,397.09	3,122.72	274.37	12.381		
7,850.00	7,653.40	16,985.00	8,060.83	34.25	249.75	-100.07	-2,164.51	101.98	3,401.12	3,126.82	274.30	12.399		
7,900.00	7,680.00	16,985.00	8,060.83	34.50	249.75	-99.52	-2,164.51	101.98	3,406.63	3,132.48	274.15	12.426		
7,950.00	7,702.80	16,985.00	8,060.83	34.77	249.75	-98.83	-2,164.51	101.98	3,413.57	3,139.65	273.92	12.462		
8,000.00	7,721.65	16,985.00	8,060.83	35.08	249.75	-98.00	-2,164.51	101.98	3,421.90	3,148.26	273.64	12.505		
8,050.00	7,736.38	16,985.00	8,060.83	35.42	249.75	-97.02	-2,164.51	101.98	3,431.52	3,158.23	273.29	12.556		
8,100.00	7,746.90	16,985.00	8,060.83	35.80	249.75	-95.92	-2,164.51	101.98	3,442.37	3,169.47	272.89	12.614		
8,150.00	7,753.12	16,985.00	8,060.83	36.23	249.75	-94.69	-2,164.51	101.98	3,454.34	3,181.89	272.45	12.679		
8,196.48	7,755.00	16,985.00	8,060.83	36.66	249.75	-93.45	-2,164.51	101.98	3,466.39	3,194.39	272.00	12.744		
8,200.00	7,755.00	16,985.00	8,060.83	36.70	249.75	-93.45	-2,164.51	101.98	3,467.33	3,195.37	271.96	12.749		
8,300.00	7,755.00	16,985.00	8,060.83	37.76	249.75	-93.45	-2,164.51	101.98	3,495.57	3,224.64	270.92	12.902		
8,400.00	7,755.00	16,985.00	8,060.83	39.01	249.75	-93.45	-2,164.51	101.98	3,526.41	3,256.57	269.84	13.068		
8,500.00	7,755.00	16,985.00	8,060.83	40.41	249.75	-93.45	-2,164.51	101.98	3,559.80	3,291.09	268.71	13.248		
8,600.00	7,755.00	16,985.00	8,060.83	41.96	249.75	-93.45	-2,164.51	101.98	3,595.66	3,328.14	267.51	13.441		
8,700.00	7,754.99	16,985.00	8,060.83	43.64	249.75	-93.45	-2,164.51	101.98	3,633.91	3,367.65	266.26	13.648		
8,800.00	7,754.99	16,985.00	8,060.83	45.42	249.75	-93.45	-2,164.51	101.98	3,674.49	3,409.54	264.95	13.869		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 83-MWDD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,754.99	16,985.00	8,060.83	47.30	249.75	-93.45	-2,164.51	101.98	3,717.32	3,453.74	263.58	14.103		
9,000.00	7,754.99	16,985.00	8,060.83	49.27	249.75	-93.45	-2,164.51	101.98	3,762.32	3,500.17	262.15	14.352		
9,100.00	7,754.99	16,985.00	8,060.83	51.30	249.75	-93.45	-2,164.51	101.98	3,809.42	3,548.75	260.67	14.614		
9,200.00	7,754.99	16,985.00	8,060.83	53.40	249.75	-93.45	-2,164.51	101.98	3,858.53	3,599.39	259.14	14.890		
9,300.00	7,754.99	16,985.00	8,060.83	55.55	249.75	-93.45	-2,164.51	101.98	3,909.58	3,652.02	257.56	15.179		
9,400.00	7,754.99	16,985.00	8,060.83	57.75	249.75	-93.45	-2,164.51	101.98	3,962.50	3,706.56	255.94	15.482		
9,500.00	7,754.98	16,985.00	8,060.83	59.99	249.75	-93.45	-2,164.51	101.98	4,017.21	3,762.94	254.28	15.799		
9,600.00	7,754.98	16,985.00	8,060.83	62.27	249.75	-93.45	-2,164.51	101.98	4,073.64	3,821.06	252.58	16.128		
9,700.00	7,754.98	16,985.00	8,060.83	64.59	249.75	-93.45	-2,164.51	101.98	4,131.73	3,880.86	250.87	16.470		
9,800.00	7,754.98	16,985.00	8,060.83	66.93	249.75	-93.45	-2,164.51	101.98	4,191.39	3,942.27	249.12	16.825		
9,900.00	7,754.98	16,985.00	8,060.83	69.30	249.75	-93.45	-2,164.51	101.98	4,252.57	4,005.20	247.36	17.192		
10,000.00	7,754.98	16,985.00	8,060.83	71.69	249.75	-93.45	-2,164.51	101.98	4,315.20	4,069.61	245.59	17.571		
10,100.00	7,754.98	16,985.00	8,060.83	74.10	249.75	-93.45	-2,164.51	101.98	4,379.21	4,135.40	243.81	17.962		
10,200.00	7,754.98	16,985.00	8,060.83	76.53	249.75	-93.45	-2,164.51	101.98	4,444.56	4,202.54	242.02	18.364		
10,300.00	7,754.98	16,985.00	8,060.83	78.98	249.75	-93.45	-2,164.51	101.98	4,511.17	4,270.94	240.23	18.778		
10,400.00	7,754.97	16,985.00	8,060.83	81.45	249.75	-93.45	-2,164.51	101.98	4,579.00	4,340.56	238.44	19.204		
10,500.00	7,754.97	16,985.00	8,060.83	83.93	249.75	-93.45	-2,164.51	101.98	4,647.99	4,411.33	236.66	19.640		
10,600.00	7,754.97	16,985.00	8,060.83	86.42	249.75	-93.45	-2,164.51	101.98	4,718.09	4,483.20	234.89	20.086		
10,700.00	7,754.97	16,985.00	8,060.83	88.92	249.75	-93.45	-2,164.51	101.98	4,789.26	4,556.13	233.13	20.543		
10,800.00	7,754.97	16,985.00	8,060.83	91.44	249.75	-93.45	-2,164.51	101.98	4,861.44	4,630.06	231.38	21.011		
10,900.00	7,754.97	16,985.00	8,060.83	93.96	249.75	-93.45	-2,164.51	101.98	4,934.59	4,704.94	229.65	21.488		
11,000.00	7,754.97	16,985.00	8,060.83	96.49	249.75	-93.45	-2,164.51	101.98	5,008.67	4,780.74	227.93	21.975		
11,100.00	7,754.97	16,985.00	8,060.83	99.04	249.75	-93.45	-2,164.51	101.98	5,083.63	4,857.40	226.23	22.471		
11,200.00	7,754.96	16,985.00	8,060.83	101.59	249.75	-93.45	-2,164.51	101.98	5,159.45	4,934.90	224.55	22.977		
11,300.00	7,754.96	16,985.00	8,060.83	104.14	249.75	-93.45	-2,164.51	101.98	5,236.08	5,013.18	222.89	23.491		
11,400.00	7,754.96	16,985.00	8,060.83	106.71	249.75	-93.45	-2,164.51	101.98	5,313.48	5,092.22	221.26	24.015		
11,500.00	7,754.96	16,985.00	8,060.83	109.28	249.75	-93.45	-2,164.51	101.98	5,391.63	5,171.98	219.65	24.547		
11,600.00	7,754.96	16,985.00	8,060.83	111.85	249.75	-93.45	-2,164.51	101.98	5,470.49	5,252.43	218.06	25.087		
11,700.00	7,754.96	16,985.00	8,060.83	114.43	249.75	-93.45	-2,164.51	101.98	5,550.03	5,333.54	216.49	25.636		
11,800.00	7,754.96	16,985.00	8,060.83	117.02	249.75	-93.45	-2,164.51	101.98	5,630.22	5,415.27	214.96	26.193		
11,900.00	7,754.96	16,985.00	8,060.83	119.61	249.75	-93.45	-2,164.51	101.98	5,711.04	5,497.60	213.44	26.757		
12,000.00	7,754.95	16,985.00	8,060.83	122.20	249.75	-93.45	-2,164.51	101.98	5,792.46	5,580.51	211.95	27.329		
12,100.00	7,754.95	16,985.00	8,060.83	124.80	249.75	-93.45	-2,164.51	101.98	5,874.45	5,663.96	210.49	27.908		
12,200.00	7,754.95	16,985.00	8,060.83	127.40	249.75	-93.45	-2,164.51	101.98	5,956.99	5,747.94	209.05	28.495		
12,300.00	7,754.95	16,985.00	8,060.83	130.01	249.75	-93.45	-2,164.51	101.98	6,040.06	5,832.42	207.64	29.089		
12,400.00	7,754.95	16,985.00	8,060.83	132.62	249.75	-93.45	-2,164.51	101.98	6,123.64	5,917.38	206.26	29.690		
12,500.00	7,754.95	16,985.00	8,060.83	135.23	249.75	-93.45	-2,164.51	101.98	6,207.70	6,002.80	204.90	30.297		
12,600.00	7,754.95	16,985.00	8,060.83	137.85	249.75	-93.45	-2,164.51	101.98	6,292.22	6,088.66	203.56	30.911		
12,700.00	7,754.95	16,985.00	8,060.83	140.47	249.75	-93.45	-2,164.51	101.98	6,377.20	6,174.95	202.25	31.531		
12,800.00	7,754.95	16,985.00	8,060.83	143.09	249.75	-93.45	-2,164.51	101.98	6,462.60	6,261.64	200.97	32.158		
12,900.00	7,754.94	16,985.00	8,060.83	145.71	249.75	-93.45	-2,164.51	101.98	6,548.42	6,348.72	199.71	32.790		
13,000.00	7,754.94	16,985.00	8,060.83	148.34	249.75	-93.45	-2,164.51	101.98	6,634.64	6,436.17	198.47	33.429		
13,100.00	7,754.94	16,985.00	8,060.83	150.97	249.75	-93.45	-2,164.51	101.98	6,721.24	6,523.98	197.26	34.073		
13,200.00	7,754.94	16,985.00	8,060.83	153.60	249.75	-93.45	-2,164.51	101.98	6,808.20	6,612.13	196.07	34.723		
13,300.00	7,754.94	16,985.00	8,060.83	156.23	249.75	-93.45	-2,164.51	101.98	6,895.52	6,700.61	194.90	35.379		
13,400.00	7,754.94	16,985.00	8,060.83	158.86	249.75	-93.45	-2,164.51	101.98	6,983.18	6,789.41	193.76	36.040		
13,500.00	7,754.94	16,985.00	8,060.83	161.50	249.75	-93.45	-2,164.51	101.98	7,071.16	6,878.52	192.64	36.706		
13,600.00	7,754.94	16,985.00	8,060.83	164.14	249.75	-93.45	-2,164.51	101.98	7,159.46	6,967.92	191.55	37.377		
13,700.00	7,754.93	16,985.00	8,060.83	166.78	249.75	-93.45	-2,164.51	101.98	7,248.07	7,057.60	190.47	38.053		
13,800.00	7,754.93	16,985.00	8,060.83	169.42	249.75	-93.45	-2,164.51	101.98	7,336.97	7,147.55	189.42	38.734		
13,900.00	7,754.93	16,985.00	8,060.83	172.06	249.75	-93.45	-2,164.51	101.98	7,426.15	7,237.76	188.39	39.420		
14,000.00	7,754.93	16,985.00	8,060.83	174.71	249.75	-93.45	-2,164.51	101.98	7,515.60	7,328.23	187.37	40.110		

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 5-6-3
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 5-6-3	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	7,754.93	16,985.00	8,060.83	177.35	249.75	-93.45	-2,164.51	101.98	7,605.32	7,418.93	186.38	40.805	
14,200.00	7,754.93	16,985.00	8,060.83	180.00	249.75	-93.45	-2,164.51	101.98	7,695.29	7,509.88	185.41	41.504	
14,300.00	7,754.93	16,985.00	8,060.83	182.65	249.75	-93.45	-2,164.51	101.98	7,785.50	7,601.04	184.46	42.207	
14,400.00	7,754.93	16,985.00	8,060.83	185.30	249.75	-93.45	-2,164.51	101.98	7,875.95	7,692.43	183.53	42.915	
14,500.00	7,754.93	16,985.00	8,060.83	187.95	249.75	-93.45	-2,164.51	101.98	7,966.63	7,784.02	182.61	43.626	
14,600.00	7,754.92	16,985.00	8,060.83	190.60	249.75	-93.45	-2,164.51	101.98	8,057.53	7,875.81	181.71	44.342	
14,700.00	7,754.92	16,985.00	8,060.83	193.25	249.75	-93.45	-2,164.51	101.98	8,148.64	7,967.80	180.84	45.061	
14,800.00	7,754.92	16,985.00	8,060.83	195.91	249.75	-93.45	-2,164.51	101.98	8,239.96	8,059.98	179.98	45.784	
14,900.00	7,754.92	16,985.00	8,060.83	198.56	249.75	-93.45	-2,164.51	101.98	8,331.48	8,152.35	179.13	46.510	
15,000.00	7,754.92	16,985.00	8,060.83	201.22	249.75	-93.45	-2,164.51	101.98	8,423.19	8,244.88	178.30	47.241	
15,100.00	7,754.92	16,985.00	8,060.83	203.87	249.75	-93.45	-2,164.51	101.98	8,515.09	8,337.59	177.49	47.974	
15,200.00	7,754.92	16,985.00	8,060.83	206.53	249.75	-93.45	-2,164.51	101.98	8,607.16	8,430.47	176.70	48.711	
15,300.00	7,754.92	16,985.00	8,060.83	209.19	249.75	-93.45	-2,164.51	101.98	8,699.42	8,523.50	175.92	49.451	
15,400.00	7,754.91	16,985.00	8,060.83	211.85	249.75	-93.45	-2,164.51	101.98	8,791.84	8,616.68	175.16	50.194	
15,500.00	7,754.91	16,985.00	8,060.83	214.51	249.75	-93.45	-2,164.51	101.98	8,884.43	8,710.02	174.41	50.941	
15,600.00	7,754.91	16,985.00	8,060.83	217.17	249.75	-93.45	-2,164.51	101.98	8,977.17	8,803.50	173.67	51.690	
15,700.00	7,754.91	16,985.00	8,060.83	219.83	249.75	-93.45	-2,164.51	101.98	9,070.07	8,897.12	172.95	52.442	
15,800.00	7,754.91	16,985.00	8,060.83	222.49	249.75	-93.45	-2,164.51	101.98	9,163.12	8,990.87	172.25	53.197	
15,900.00	7,754.91	16,985.00	8,060.83	225.16	249.75	-93.45	-2,164.51	101.98	9,256.31	9,084.76	171.56	53.955	
16,000.00	7,754.91	16,985.00	8,060.83	227.82	249.75	-93.45	-2,164.51	101.98	9,349.65	9,178.77	170.88	54.715	
16,100.00	7,754.91	16,985.00	8,060.83	230.48	249.75	-93.45	-2,164.51	101.98	9,443.12	9,272.91	170.21	55.478	
16,200.00	7,754.90	16,985.00	8,060.83	233.15	249.75	-93.45	-2,164.51	101.98	9,536.72	9,367.16	169.56	56.244	
16,300.00	7,754.90	16,985.00	8,060.83	235.81	249.75	-93.45	-2,164.51	101.98	9,630.46	9,461.54	168.92	57.012	
16,400.00	7,754.90	16,985.00	8,060.83	238.48	249.75	-93.45	-2,164.51	101.98	9,724.31	9,556.02	168.29	57.782	
16,500.00	7,754.90	16,985.00	8,060.83	241.14	249.75	-93.45	-2,164.51	101.98	9,818.29	9,650.61	167.68	58.554	
16,600.00	7,754.90	16,985.00	8,060.83	243.81	249.75	-93.45	-2,164.51	101.98	9,912.39	9,745.31	167.07	59.329	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T4S-R65W - JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	36.56	36.56					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	36.56	36.56	36.29	0.27	135.993		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	36.56	36.56	35.58	0.99	37.089		
300.00	300.00	300.14	300.12	0.85	0.85	87.27	1.73	36.32	36.36	34.66	1.70	21.352		
369.88	369.88	369.98	369.88	1.10	1.11	82.07	4.99	35.87	36.21	34.01	2.21	16.416 CC		
400.00	400.00	400.03	399.86	1.21	1.22	79.01	6.91	35.60	36.27	33.84	2.42	14.970 ES		
500.00	500.00	499.43	498.89	1.57	1.58	65.77	15.49	34.41	37.75	34.60	3.15	11.981		
600.00	600.00	598.12	596.84	1.93	1.96	50.13	27.36	32.75	42.79	38.91	3.88	11.017		
700.00	699.98	696.15	693.67	2.29	2.37	48.68	42.45	30.65	51.58	46.97	4.61	11.190		
800.00	799.84	793.71	789.47	2.65	2.79	39.92	60.72	28.11	62.30	56.98	5.32	11.702		
900.00	899.45	890.83	884.16	3.01	3.24	33.98	82.10	25.13	74.07	68.04	6.03	12.275		
1,000.00	998.70	987.52	977.63	3.38	3.73	29.85	106.53	21.73	86.41	79.67	6.74	12.811		
1,100.00	1,097.47	1,083.85	1,069.90	3.77	4.25	26.89	133.97	17.91	99.06	91.60	7.46	13.285		
1,164.39	1,160.75	1,147.76	1,130.81	4.03	4.61	25.52	153.13	15.24	106.59	98.64	7.95	13.411		
1,200.00	1,195.67	1,183.15	1,164.53	4.18	4.81	24.97	163.74	13.77	110.42	102.20	8.22	13.425		
1,300.00	1,293.73	1,282.53	1,259.25	4.60	5.39	23.61	193.54	9.62	121.22	112.21	9.01	13.455		
1,400.00	1,391.80	1,381.90	1,353.96	5.04	5.97	22.47	223.34	5.47	132.07	122.27	9.80	13.481		
1,500.00	1,489.86	1,481.28	1,448.68	5.48	6.55	21.50	253.13	1.32	142.97	132.38	10.59	13.505		
1,600.00	1,587.93	1,580.66	1,543.39	5.93	7.14	20.68	282.93	-2.82	153.90	142.52	11.38	13.525		
1,700.00	1,686.00	1,680.04	1,638.11	6.38	7.73	19.96	312.72	-6.97	164.86	152.69	12.17	13.544		
1,800.00	1,784.06	1,779.41	1,732.82	6.84	8.33	19.33	342.52	-11.12	175.84	162.87	12.97	13.561		
1,900.00	1,882.13	1,878.79	1,827.54	7.30	8.93	18.77	372.31	-15.27	186.84	173.08	13.76	13.576		
2,000.00	1,980.19	1,978.17	1,922.25	7.76	9.52	18.28	402.11	-19.42	197.86	183.30	14.56	13.590		
2,100.00	2,078.26	2,077.55	2,016.97	8.22	10.12	17.84	431.90	-23.56	208.89	193.53	15.36	13.602		
2,200.00	2,176.32	2,176.93	2,111.69	8.69	10.73	17.44	461.70	-27.71	219.93	203.77	16.15	13.614		
2,300.00	2,274.39	2,276.30	2,206.40	9.15	11.33	17.08	491.50	-31.86	230.98	214.02	16.95	13.624		
2,400.00	2,372.45	2,375.68	2,301.12	9.62	11.93	16.75	521.29	-36.01	242.03	224.28	17.75	13.634		
2,500.00	2,470.52	2,475.06	2,395.83	10.09	12.53	16.46	551.09	-40.16	253.10	234.54	18.55	13.643		
2,600.00	2,568.59	2,574.44	2,490.55	10.56	13.14	16.18	580.88	-44.30	264.17	244.82	19.35	13.651		
2,700.00	2,666.65	2,673.81	2,585.26	11.03	13.74	15.93	610.68	-48.45	275.24	255.09	20.15	13.658		
2,800.00	2,764.72	2,773.19	2,679.98	11.50	14.35	15.70	640.47	-52.60	286.32	265.37	20.95	13.665		
2,900.00	2,862.78	2,872.57	2,774.69	11.97	14.95	15.49	670.27	-56.75	297.41	275.66	21.75	13.672		
3,000.00	2,960.85	2,971.95	2,869.41	12.45	15.56	15.29	700.07	-60.90	308.50	285.94	22.55	13.678		
3,100.00	3,058.91	3,071.33	2,964.12	12.92	16.16	15.10	729.86	-65.04	319.59	296.24	23.36	13.684		
3,200.00	3,156.98	3,170.70	3,058.84	13.39	16.77	14.93	759.66	-69.19	330.69	306.53	24.16	13.689		
3,300.00	3,255.05	3,270.08	3,153.55	13.87	17.38	14.77	789.45	-73.34	341.79	316.83	24.96	13.694		
3,400.00	3,353.11	3,369.46	3,248.27	14.34	17.98	14.62	819.25	-77.49	352.89	327.13	25.76	13.698		
3,500.00	3,451.18	3,468.84	3,342.98	14.82	18.59	14.47	849.04	-81.64	363.99	337.43	26.56	13.703		
3,600.00	3,549.24	3,568.21	3,437.70	15.29	19.20	14.34	878.84	-85.78	375.09	347.73	27.37	13.707		
3,700.00	3,647.31	3,667.59	3,532.41	15.77	19.80	14.21	908.64	-89.93	386.20	358.03	28.17	13.711		
3,800.00	3,745.37	3,766.97	3,627.13	16.24	20.41	14.10	938.43	-94.08	397.31	368.34	28.97	13.715		
3,900.00	3,843.44	3,866.35	3,721.84	16.72	21.02	13.98	968.23	-98.23	408.42	378.65	29.77	13.718		
4,000.00	3,941.50	3,965.73	3,816.56	17.19	21.63	13.88	998.02	-102.38	419.53	388.96	30.58	13.721		
4,100.00	4,039.57	4,065.10	3,911.27	17.67	22.23	13.78	1,027.82	-106.52	430.65	399.27	31.38	13.724		
4,200.00	4,137.64	4,164.48	4,005.99	18.15	22.84	13.68	1,057.61	-110.67	441.76	409.58	32.18	13.727		
4,300.00	4,235.70	4,263.86	4,100.70	18.62	23.45	13.59	1,087.41	-114.82	452.88	419.89	32.98	13.730		
4,400.00	4,333.77	4,363.24	4,195.42	19.10	24.06	13.50	1,117.20	-118.97	463.99	430.21	33.79	13.733		
4,500.00	4,431.83	4,462.61	4,290.13	19.58	24.66	13.42	1,147.00	-123.12	475.11	440.52	34.59	13.735		
4,600.00	4,529.90	4,561.99	4,384.85	20.05	25.27	13.34	1,176.80	-127.26	486.23	450.84	35.39	13.738		
4,700.00	4,627.96	4,661.37	4,479.56	20.53	25.88	13.26	1,206.59	-131.41	497.35	461.15	36.20	13.740		
4,800.00	4,726.03	4,760.75	4,574.28	21.01	26.49	13.19	1,236.39	-135.56	508.47	471.47	37.00	13.742		
4,900.00	4,824.10	4,860.12	4,668.99	21.48	27.10	13.12	1,266.18	-139.71	519.59	481.79	37.80	13.744		

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 5-6-3
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 5-6-3	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	4,922.16	4,959.50	4,763.71	21.96	27.71	13.06	1,295.98	-143.86	530.71	492.11	38.61	13.747		
5,100.00	5,020.23	5,058.88	4,858.42	22.44	28.31	12.99	1,325.77	-148.00	541.83	502.42	39.41	13.748		
5,200.00	5,118.29	5,158.26	4,953.14	22.92	28.92	12.93	1,355.57	-152.15	552.96	512.74	40.21	13.750		
5,300.00	5,216.36	5,257.64	5,047.85	23.39	29.53	12.87	1,385.37	-156.30	564.08	523.06	41.02	13.752		
5,400.00	5,314.42	5,357.01	5,142.57	23.87	30.14	12.82	1,415.16	-160.45	575.21	533.38	41.82	13.754		
5,500.00	5,412.49	5,456.39	5,237.28	24.35	30.75	12.76	1,444.96	-164.60	586.33	543.71	42.63	13.755		
5,600.00	5,510.55	5,555.77	5,332.00	24.83	31.36	12.71	1,474.75	-168.74	597.46	554.03	43.43	13.757		
5,700.00	5,608.62	5,655.15	5,426.71	25.30	31.96	12.66	1,504.55	-172.89	608.58	564.35	44.23	13.758		
5,800.00	5,706.69	5,754.52	5,521.43	25.78	32.57	12.61	1,534.34	-177.04	619.71	574.67	45.04	13.760		
5,900.00	5,804.75	5,853.90	5,616.14	26.26	33.18	12.57	1,564.14	-181.19	630.84	584.99	45.84	13.761		
6,000.00	5,902.82	5,953.28	5,710.86	26.74	33.79	12.52	1,593.93	-185.34	641.96	595.32	46.65	13.763		
6,100.00	6,000.88	6,052.66	5,805.58	27.22	34.40	12.48	1,623.73	-189.48	653.09	605.64	47.45	13.764		
6,200.00	6,098.95	6,152.04	5,900.29	27.69	35.01	12.44	1,653.53	-193.63	664.22	615.96	48.25	13.765		
6,300.00	6,197.01	6,251.41	5,995.01	28.17	35.62	12.39	1,683.32	-197.78	675.35	626.29	49.06	13.766		
6,400.00	6,295.08	6,350.79	6,089.72	28.65	36.23	12.36	1,713.12	-201.93	686.47	636.61	49.86	13.768		
6,500.00	6,393.15	6,450.17	6,184.44	29.13	36.83	12.32	1,742.91	-206.08	697.60	646.94	50.67	13.769		
6,600.00	6,491.21	6,549.55	6,279.15	29.61	37.44	12.28	1,772.71	-210.22	708.73	657.26	51.47	13.770		
6,699.99	6,589.26	6,648.91	6,373.85	30.08	38.05	12.24	1,802.50	-214.37	719.86	667.59	52.27	13.771		
6,702.02	6,691.25	6,650.93	6,375.77	30.09	38.06	12.24	1,803.10	-214.46	720.09	667.79	52.29	13.771		
6,800.00	6,687.65	6,749.02	6,469.27	30.55	38.67	12.23	1,832.51	-218.55	732.61	679.54	53.08	13.803		
6,900.00	6,786.59	6,882.02	6,596.96	30.97	39.44	12.17	1,869.30	-223.67	746.36	692.26	54.10	13.797		
7,000.00	6,885.98	7,016.05	6,727.25	31.36	40.14	12.11	1,900.39	-228.00	758.91	703.92	55.00	13.799		
7,100.00	6,985.69	7,151.04	6,859.81	31.72	40.75	12.03	1,925.58	-231.50	770.25	714.49	55.76	13.813		
7,200.00	7,085.60	7,286.91	6,994.30	32.03	41.30	11.95	1,944.65	-234.16	780.33	723.93	56.40	13.836		
7,266.41	7,152.00	7,377.58	7,084.49	32.23	41.61	0.32	1,953.85	-235.44	786.32	729.57	56.75	13.856		
7,296.41	7,182.00	7,418.67	7,125.44	32.31	41.74	0.28	1,957.09	-235.89	788.68	731.80	56.89	13.864		
7,300.00	7,185.59	7,423.59	7,130.36	32.32	41.76	90.00	1,957.44	-235.94	788.94	732.04	56.90	13.865		
7,350.00	7,235.52	7,492.18	7,198.82	32.46	41.96	89.92	1,961.44	-236.50	791.85	734.72	57.13	13.861		
7,400.00	7,285.03	7,560.35	7,266.95	32.61	42.13	90.39	1,963.80	-236.83	793.61	736.23	57.37	13.833		
7,450.00	7,333.76	7,627.45	7,334.05	32.76	42.29	91.38	1,964.55	-236.93	794.35	736.70	57.65	13.779		
7,500.00	7,381.34	7,675.93	7,382.52	32.92	42.39	92.38	1,964.55	-237.26	794.87	736.72	58.15	13.670		
7,550.00	7,427.40	7,727.22	7,433.63	33.09	42.51	93.46	1,964.57	-241.30	795.71	737.07	58.64	13.569		
7,600.00	7,471.59	7,780.12	7,485.76	33.26	42.63	94.53	1,964.61	-250.23	796.85	737.72	59.14	13.475		
7,650.00	7,513.58	7,834.78	7,538.51	33.44	42.77	95.58	1,964.67	-264.47	798.27	738.64	59.63	13.387		
7,700.00	7,553.04	7,891.31	7,591.38	33.62	42.92	96.61	1,964.76	-284.41	799.91	739.80	60.11	13.307		
7,750.00	7,589.68	7,949.82	7,643.75	33.82	43.08	97.61	1,964.87	-310.42	801.74	741.16	60.57	13.236		
7,800.00	7,623.22	8,010.38	7,694.88	34.03	43.25	98.56	1,965.02	-342.83	803.69	742.67	61.01	13.172		
7,850.00	7,653.40	8,073.04	7,743.88	34.25	43.44	99.46	1,965.19	-381.84	805.69	744.26	61.42	13.117		
7,900.00	7,680.00	8,137.79	7,789.72	34.50	43.65	100.28	1,965.39	-427.52	807.66	745.85	61.81	13.067		
7,950.00	7,702.80	8,204.57	7,831.29	34.77	43.88	101.01	1,965.62	-479.73	809.52	747.33	62.19	13.018		
8,000.00	7,721.65	8,273.22	7,867.40	35.08	44.14	101.65	1,965.87	-538.07	811.19	748.59	62.60	12.959		
8,050.00	7,736.38	8,343.51	7,896.88	35.42	44.44	102.16	1,966.16	-601.83	812.58	749.53	63.05	12.888		
8,100.00	7,746.90	8,415.12	7,918.65	35.80	44.79	102.54	1,966.46	-670.00	813.62	750.02	63.60	12.792		
8,150.00	7,753.12	8,487.66	7,931.87	36.23	45.19	102.77	1,966.77	-741.28	814.27	749.98	64.29	12.666		
8,196.48	7,755.00	8,555.53	7,936.00	36.66	45.62	102.84	1,967.07	-808.98	814.48	749.42	65.06	12.519		
8,200.00	7,755.00	8,559.35	7,936.00	36.70	45.64	102.84	1,967.08	-812.80	814.48	749.34	65.14	12.504		
8,300.00	7,755.00	8,659.35	7,936.00	37.76	46.37	102.84	1,967.52	-912.80	814.48	746.75	67.73	12.026		
8,400.00	7,755.00	8,759.35	7,936.00	39.01	47.23	102.84	1,967.96	-1,012.80	814.48	743.88	70.60	11.537		
8,500.00	7,755.00	8,859.35	7,936.00	40.41	48.22	102.84	1,968.40	-1,112.80	814.48	740.75	73.73	11.047		
8,600.00	7,755.00	8,959.35	7,935.99	41.96	49.35	102.84	1,968.84	-1,212.80	814.48	737.39	77.09	10.565		
8,700.00	7,754.99	9,059.35	7,935.99	43.64	50.61	102.84	1,969.28	-1,312.80	814.48	733.83	80.66	10.098		
8,800.00	7,754.99	9,159.35	7,935.99	45.42	52.00	102.84	1,969.72	-1,412.79	814.48	730.08	84.40	9.651		

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 5-6-3
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 5-6-3	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	7,754.99	9,259.35	7,935.99	47.30	53.51	102.84	1,970.16	-1,512.79	814.48	726.19	88.29	9.225		
9,000.00	7,754.99	9,359.35	7,935.99	49.27	55.14	102.84	1,970.60	-1,612.79	814.48	722.16	92.32	8.822		
9,100.00	7,754.99	9,459.35	7,935.99	51.30	56.86	102.84	1,971.04	-1,712.79	814.48	718.01	96.47	8.443		
9,200.00	7,754.99	9,559.35	7,935.99	53.40	58.67	102.84	1,971.48	-1,812.79	814.48	713.76	100.72	8.086		
9,300.00	7,754.99	9,659.35	7,935.98	55.55	60.57	102.84	1,971.92	-1,912.79	814.49	709.42	105.07	7.752		
9,400.00	7,754.99	9,759.35	7,935.98	57.75	62.53	102.84	1,972.36	-2,012.79	814.49	705.00	109.49	7.439		
9,500.00	7,754.98	9,859.35	7,935.98	59.99	64.56	102.84	1,972.80	-2,112.79	814.49	700.51	113.98	7.146		
9,600.00	7,754.98	9,959.35	7,935.98	62.27	66.64	102.84	1,973.24	-2,212.79	814.49	695.95	118.54	6.871		
9,700.00	7,754.98	10,059.35	7,935.98	64.59	68.78	102.84	1,973.68	-2,312.79	814.49	691.34	123.15	6.614		
9,800.00	7,754.98	10,159.35	7,935.98	66.93	70.96	102.84	1,974.12	-2,412.78	814.49	686.68	127.81	6.373		
9,900.00	7,754.98	10,259.35	7,935.98	69.30	73.17	102.84	1,974.56	-2,512.78	814.49	681.98	132.52	6.146		
10,000.00	7,754.98	10,359.35	7,935.97	71.69	75.42	102.84	1,975.00	-2,612.78	814.49	677.23	137.26	5.934		
10,100.00	7,754.98	10,459.35	7,935.97	74.10	77.71	102.84	1,975.44	-2,712.78	814.49	672.45	142.04	5.734		
10,200.00	7,754.98	10,559.35	7,935.97	76.53	80.02	102.84	1,975.88	-2,812.78	814.49	667.64	146.85	5.546		
10,300.00	7,754.98	10,659.35	7,935.97	78.98	82.36	102.84	1,976.32	-2,912.78	814.49	662.80	151.70	5.369		
10,400.00	7,754.97	10,759.35	7,935.97	81.45	84.72	102.84	1,976.76	-3,012.78	814.50	657.93	156.57	5.202		
10,500.00	7,754.97	10,859.35	7,935.97	83.93	87.10	102.84	1,977.20	-3,112.78	814.50	653.04	161.46	5.045		
10,600.00	7,754.97	10,959.35	7,935.97	86.42	89.50	102.84	1,977.64	-3,212.78	814.50	648.12	166.37	4.896		
10,700.00	7,754.97	11,059.35	7,935.96	88.92	91.92	102.84	1,978.08	-3,312.78	814.50	643.19	171.31	4.755		
10,800.00	7,754.97	11,159.35	7,935.96	91.44	94.36	102.84	1,978.52	-3,412.77	814.50	638.23	176.26	4.621		
10,900.00	7,754.97	11,259.35	7,935.96	93.96	96.81	102.84	1,978.96	-3,512.77	814.50	633.26	181.23	4.494		
11,000.00	7,754.97	11,359.35	7,935.96	96.49	99.27	102.84	1,979.40	-3,612.77	814.50	628.28	186.22	4.374		
11,100.00	7,754.97	11,459.35	7,935.96	99.04	101.75	102.84	1,979.84	-3,712.77	814.50	623.28	191.22	4.259		
11,200.00	7,754.96	11,559.35	7,935.96	101.59	104.23	102.84	1,980.28	-3,812.77	814.50	618.27	196.24	4.151		
11,300.00	7,754.96	11,659.35	7,935.96	104.14	106.73	102.84	1,980.72	-3,912.77	814.50	613.24	201.26	4.047		
11,400.00	7,754.96	11,759.35	7,935.95	106.71	109.24	102.84	1,981.16	-4,012.77	814.50	608.20	206.30	3.948		
11,500.00	7,754.96	11,859.35	7,935.95	109.28	111.76	102.84	1,981.60	-4,112.77	814.50	603.16	211.35	3.854		
11,600.00	7,754.96	11,959.35	7,935.95	111.85	114.28	102.84	1,982.04	-4,212.77	814.51	598.10	216.41	3.764		
11,700.00	7,754.96	12,059.35	7,935.95	114.43	116.81	102.84	1,982.48	-4,312.77	814.51	593.03	221.47	3.678		
11,800.00	7,754.96	12,159.35	7,935.95	117.02	119.35	102.84	1,982.92	-4,412.77	814.51	587.96	226.55	3.595		
11,900.00	7,754.96	12,259.35	7,935.95	119.61	121.90	102.84	1,983.36	-4,512.76	814.51	582.88	231.63	3.516		
12,000.00	7,754.95	12,359.35	7,935.95	122.20	124.45	102.84	1,983.80	-4,612.76	814.51	577.79	236.72	3.441		
12,100.00	7,754.95	12,459.35	7,935.94	124.80	127.01	102.84	1,984.24	-4,712.76	814.51	572.69	241.82	3.368		
12,200.00	7,754.95	12,559.35	7,935.94	127.40	129.57	102.84	1,984.68	-4,812.76	814.51	567.59	246.92	3.299		
12,300.00	7,754.95	12,659.35	7,935.94	130.01	132.14	102.84	1,985.12	-4,912.76	814.51	562.48	252.04	3.232		
12,400.00	7,754.95	12,759.35	7,935.94	132.62	134.72	102.84	1,985.56	-5,012.76	814.51	557.36	257.15	3.167		
12,500.00	7,754.95	12,859.35	7,935.94	135.23	137.30	102.84	1,986.00	-5,112.76	814.51	552.24	262.27	3.106		
12,600.00	7,754.95	12,959.35	7,935.94	137.85	139.88	102.84	1,986.44	-5,212.76	814.51	547.11	267.40	3.046		
12,700.00	7,754.95	13,059.35	7,935.94	140.47	142.47	102.84	1,986.88	-5,312.76	814.51	541.98	272.53	2.989		
12,800.00	7,754.95	13,159.35	7,935.93	143.09	145.06	102.84	1,987.32	-5,412.76	814.52	536.85	277.67	2.933		
12,900.00	7,754.94	13,259.35	7,935.93	145.71	147.66	102.84	1,987.76	-5,512.75	814.52	531.71	282.81	2.880		
13,000.00	7,754.94	13,359.35	7,935.93	148.34	150.25	102.84	1,988.20	-5,612.75	814.52	526.56	287.95	2.829		
13,100.00	7,754.94	13,459.35	7,935.93	150.97	152.86	102.84	1,988.65	-5,712.75	814.52	521.42	293.10	2.779		
13,200.00	7,754.94	13,559.35	7,935.93	153.60	155.46	102.84	1,989.09	-5,812.75	814.52	516.26	298.26	2.731		
13,300.00	7,754.94	13,659.35	7,935.93	156.23	158.07	102.84	1,989.53	-5,912.75	814.52	511.11	303.41	2.685		
13,400.00	7,754.94	13,759.35	7,935.93	158.86	160.68	102.84	1,989.97	-6,012.75	814.52	505.95	308.57	2.640		
13,500.00	7,754.94	13,859.35	7,935.92	161.50	163.29	102.84	1,990.41	-6,112.75	814.52	500.79	313.73	2.596		
13,600.00	7,754.94	13,959.35	7,935.92	164.14	165.91	102.84	1,990.85	-6,212.75	814.52	495.62	318.90	2.554		
13,700.00	7,754.93	14,059.35	7,935.92	166.78	168.53	102.84	1,991.29	-6,312.75	814.52	490.46	324.07	2.513		
13,800.00	7,754.93	14,159.35	7,935.92	169.42	171.15	102.84	1,991.73	-6,412.75	814.52	485.29	329.24	2.474		
13,900.00	7,754.93	14,259.35	7,935.92	172.06	173.77	102.84	1,992.17	-6,512.74	814.53	480.11	334.41	2.436		
14,000.00	7,754.93	14,359.35	7,935.92	174.71	176.39	102.84	1,992.61	-6,612.74	814.53	474.94	339.59	2.399		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T4S-R65W - JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,754.93	14,459.35	7,935.92	177.35	179.02	102.84	1,993.05	-6,712.74	814.53	469.76	344.77	2.363		
14,200.00	7,754.93	14,559.35	7,935.91	180.00	181.65	102.84	1,993.49	-6,812.74	814.53	464.58	349.95	2.328		
14,300.00	7,754.93	14,659.35	7,935.91	182.65	184.28	102.84	1,993.93	-6,912.74	814.53	459.40	355.13	2.294		
14,400.00	7,754.93	14,759.35	7,935.91	185.30	186.91	102.84	1,994.37	-7,012.74	814.53	454.22	360.31	2.261		
14,500.00	7,754.93	14,859.35	7,935.91	187.95	189.55	102.84	1,994.81	-7,112.74	814.53	449.03	365.50	2.229		
14,600.00	7,754.92	14,959.35	7,935.91	190.60	192.18	102.84	1,995.25	-7,212.74	814.53	443.84	370.69	2.197		
14,700.00	7,754.92	15,059.35	7,935.91	193.25	194.82	102.84	1,995.69	-7,312.74	814.53	438.65	375.88	2.167		
14,800.00	7,754.92	15,159.35	7,935.91	195.91	197.46	102.84	1,996.13	-7,412.74	814.53	433.46	381.07	2.137		
14,900.00	7,754.92	15,259.35	7,935.90	198.56	200.10	102.84	1,996.57	-7,512.74	814.53	428.27	386.27	2.109		
15,000.00	7,754.92	15,359.35	7,935.90	201.22	202.74	102.84	1,997.01	-7,612.73	814.53	423.07	391.46	2.081		
15,100.00	7,754.92	15,459.35	7,935.90	203.87	205.38	102.84	1,997.45	-7,712.73	814.54	417.88	396.66	2.053		
15,200.00	7,754.92	15,559.35	7,935.90	206.53	208.02	102.84	1,997.89	-7,812.73	814.54	412.68	401.86	2.027		
15,300.00	7,754.92	15,659.35	7,935.90	209.19	210.67	102.84	1,998.33	-7,912.73	814.54	407.48	407.06	2.001		
15,400.00	7,754.91	15,759.35	7,935.90	211.85	213.31	102.84	1,998.77	-8,012.73	814.54	402.28	412.26	1.976		
15,500.00	7,754.91	15,859.35	7,935.90	214.51	215.96	102.84	1,999.21	-8,112.73	814.54	397.08	417.46	1.951		
15,600.00	7,754.91	15,959.35	7,935.89	217.17	218.61	102.84	1,999.65	-8,212.73	814.54	391.87	422.67	1.927		
15,700.00	7,754.91	16,059.35	7,935.89	219.83	221.26	102.84	2,000.09	-8,312.73	814.54	386.67	427.87	1.904		
15,800.00	7,754.91	16,159.35	7,935.89	222.49	223.91	102.84	2,000.53	-8,412.73	814.54	381.46	433.08	1.881		
15,900.00	7,754.91	16,259.35	7,935.89	225.16	226.56	102.84	2,000.97	-8,512.73	814.54	376.26	438.29	1.858		
16,000.00	7,754.91	16,359.35	7,935.89	227.82	229.21	102.84	2,001.41	-8,612.72	814.54	371.05	443.49	1.837		
16,100.00	7,754.91	16,459.35	7,935.89	230.48	231.86	102.84	2,001.85	-8,712.72	814.54	365.84	448.70	1.815		
16,200.00	7,754.90	16,559.35	7,935.89	233.15	234.52	102.84	2,002.29	-8,812.72	814.54	360.63	453.91	1.794		
16,300.00	7,754.90	16,659.35	7,935.88	235.81	237.17	102.84	2,002.73	-8,912.72	814.55	355.42	459.13	1.774		
16,400.00	7,754.90	16,759.35	7,935.88	238.48	239.83	102.84	2,003.17	-9,012.72	814.55	350.21	464.34	1.754		
16,500.00	7,754.90	16,859.35	7,935.88	241.14	242.48	102.84	2,003.61	-9,112.72	814.55	345.00	469.55	1.735		
16,600.00	7,754.90	16,959.35	7,935.88	243.81	245.14	102.84	2,004.05	-9,212.72	814.55	339.78	474.77	1.716		
16,700.00	7,754.90	17,059.35	7,935.88	246.48	247.80	102.84	2,004.49	-9,312.72	814.55	334.57	479.98	1.697		
16,800.00	7,754.90	17,159.35	7,935.88	249.15	250.46	102.84	2,004.93	-9,412.72	814.55	329.35	485.20	1.679		
16,900.00	7,754.90	17,259.35	7,935.88	251.81	253.12	102.84	2,005.37	-9,512.72	814.55	324.14	490.42	1.661		
17,000.00	7,754.90	17,359.35	7,935.87	254.48	255.78	102.84	2,005.81	-9,612.71	814.55	318.92	495.63	1.643		
17,100.00	7,754.89	17,459.35	7,935.87	257.15	258.44	102.84	2,006.25	-9,712.71	814.55	313.70	500.85	1.626		
17,200.00	7,754.89	17,559.35	7,935.87	259.82	261.10	102.84	2,006.69	-9,812.71	814.55	308.48	506.07	1.610		
17,300.00	7,754.89	17,659.35	7,935.87	262.49	263.76	102.84	2,007.13	-9,912.71	814.55	303.26	511.29	1.593		
17,400.00	7,754.89	17,759.35	7,935.87	265.16	266.42	102.84	2,007.57	-10,012.71	814.56	298.04	516.51	1.577		
17,500.00	7,754.89	17,859.35	7,935.87	267.83	269.08	102.84	2,008.01	-10,112.71	814.56	292.82	521.73	1.561		
17,600.00	7,754.89	17,959.35	7,935.87	270.50	271.75	102.84	2,008.45	-10,212.71	814.56	287.60	526.96	1.546		
17,700.00	7,754.89	18,059.35	7,935.86	273.17	274.41	102.84	2,008.89	-10,312.71	814.56	282.38	532.18	1.531		
17,800.00	7,754.89	18,159.35	7,935.86	275.85	277.07	102.84	2,009.33	-10,412.71	814.56	277.16	537.40	1.516		
17,879.50	7,755.00	18,239.20	7,936.00	277.97	279.20	102.84	2,009.33	-10,492.55	814.48	272.93	541.54	1.504 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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	600.77	600.75	1.93	1.91	90.93	-1.73	106.49	106.51	102.67	3.84	27.743		
698.75	698.73	699.91	699.75	2.28	2.25	106.17	-6.81	105.37	106.05	101.53	4.52	23.444 CC		
700.00	699.98	701.16	701.00	2.29	2.25	106.24	-6.89	105.35	106.05	101.52	4.53	23.399 ES		
800.00	799.84	800.49	799.94	2.65	2.60	113.49	-15.37	103.47	107.20	101.96	5.24	20.467		
900.00	899.45	898.09	896.81	3.01	2.95	123.45	-26.96	100.91	112.37	106.41	5.96	18.857		
1,000.00	998.70	993.35	990.92	3.38	3.32	134.56	-41.38	97.72	124.31	117.62	6.69	18.585		
1,100.00	1,097.47	1,085.71	1,081.64	3.77	3.71	145.02	-58.26	93.98	144.85	137.44	7.40	19.562		
1,164.39	1,160.75	1,143.42	1,138.02	4.03	3.97	150.89	-70.25	91.33	162.86	155.01	7.85	20.738		
1,200.00	1,195.67	1,174.77	1,168.55	4.18	4.11	153.87	-77.23	89.79	174.19	166.10	8.09	21.527		
1,300.00	1,293.73	1,262.13	1,253.18	4.60	4.52	160.89	-98.35	85.11	209.46	200.72	8.74	23.970		
1,400.00	1,391.80	1,352.31	1,340.33	5.04	4.97	166.25	-120.98	80.11	247.67	238.26	9.41	26.315		
1,500.00	1,489.86	1,442.48	1,427.48	5.48	5.43	170.21	-143.60	75.10	287.31	277.22	10.09	28.477		
1,600.00	1,587.93	1,532.66	1,514.63	5.93	5.90	173.22	-166.23	70.09	327.85	317.08	10.77	30.440		
1,700.00	1,686.00	1,622.84	1,601.78	6.38	6.37	175.58	-188.86	65.09	369.01	357.55	11.46	32.210		
1,800.00	1,784.06	1,713.02	1,688.93	6.84	6.85	177.48	-211.49	60.08	410.58	398.44	12.15	33.803		
1,900.00	1,882.13	1,803.20	1,776.08	7.30	7.34	179.03	-234.12	55.07	452.47	439.63	12.84	35.239		
2,000.00	1,980.19	1,893.38	1,863.23	7.76	7.83	-179.68	-256.75	50.07	494.58	481.05	13.54	36.536		
2,100.00	2,078.26	1,983.55	1,950.38	8.22	8.32	-178.60	-279.37	45.06	536.87	522.64	14.24	37.711		
2,200.00	2,176.32	2,073.73	2,037.53	8.69	8.81	-177.66	-302.00	40.05	579.30	564.36	14.94	38.778		
2,300.00	2,274.39	2,163.91	2,124.68	9.15	9.31	-176.86	-324.63	35.05	621.84	606.19	15.64	39.751		
2,400.00	2,372.45	2,254.09	2,211.83	9.62	9.80	-176.16	-347.26	30.04	664.46	648.11	16.35	40.640		
2,500.00	2,470.52	2,344.27	2,298.98	10.09	10.30	-175.54	-369.89	25.03	707.16	690.10	17.06	41.456		
2,600.00	2,568.59	2,434.44	2,386.13	10.56	10.80	-174.99	-392.52	20.02	749.91	732.15	17.77	42.207		
2,700.00	2,666.65	2,524.62	2,473.27	11.03	11.30	-174.50	-415.14	15.02	792.72	774.24	18.48	42.900		
2,800.00	2,764.72	2,614.80	2,560.42	11.50	11.81	-174.07	-437.77	10.01	835.57	816.38	19.19	43.540		
2,900.00	2,862.78	2,704.98	2,647.57	11.97	12.31	-173.67	-460.40	5.00	878.45	858.55	19.90	44.134		
3,000.00	2,960.85	2,804.84	2,734.72	12.45	12.87	-173.31	-483.03	0.00	921.37	900.71	20.66	44.600		
3,100.00	3,058.91	2,885.34	2,821.87	12.92	13.32	-172.98	-505.66	-5.01	964.31	942.98	21.33	45.201		
3,200.00	3,156.98	2,975.51	2,909.02	13.39	13.82	-172.68	-528.28	-10.02	1,007.28	985.23	22.05	45.682		
3,300.00	3,255.05	3,065.69	2,996.17	13.87	14.33	-172.41	-550.91	-15.02	1,050.27	1,027.50	22.77	46.131		
3,400.00	3,353.11	3,155.87	3,083.32	14.34	14.83	-172.15	-573.54	-20.03	1,093.28	1,069.79	23.48	46.553		
3,500.00	3,451.18	3,246.05	3,170.47	14.82	15.34	-171.92	-596.17	-25.04	1,136.30	1,112.09	24.20	46.949		
3,600.00	3,549.24	3,336.23	3,257.62	15.29	15.85	-171.70	-618.80	-30.04	1,179.33	1,154.41	24.92	47.321		
3,700.00	3,647.31	3,426.41	3,344.77	15.77	16.35	-171.50	-641.43	-35.05	1,222.38	1,196.74	25.64	47.672		
3,800.00	3,745.37	3,516.58	3,431.92	16.24	16.86	-171.31	-664.05	-40.06	1,265.44	1,239.08	26.36	48.003		
3,900.00	3,843.44	3,606.76	3,519.07	16.72	17.37	-171.14	-686.68	-45.06	1,308.52	1,281.43	27.08	48.316		
4,000.00	3,941.50	3,703.06	3,606.22	17.19	17.91	-170.97	-709.31	-50.07	1,351.60	1,323.77	27.83	48.569		
4,100.00	4,039.57	3,787.12	3,693.37	17.67	18.39	-170.82	-731.94	-55.08	1,394.69	1,366.16	28.53	48.893		
4,200.00	4,137.64	3,877.30	3,780.51	18.15	18.89	-170.67	-754.57	-60.08	1,437.78	1,408.54	29.25	49.160		
4,300.00	4,235.70	3,967.47	3,867.66	18.62	19.40	-170.53	-777.20	-65.09	1,480.89	1,450.92	29.97	49.413		
4,400.00	4,333.77	4,057.65	3,954.81	19.10	19.91	-170.41	-799.82	-70.10	1,524.00	1,493.31	30.69	49.654		
4,500.00	4,431.83	4,147.83	4,041.96	19.58	20.42	-170.28	-822.45	-75.10	1,567.12	1,535.70	31.42	49.883		
4,600.00	4,529.90	4,238.01	4,129.11	20.05	20.93	-170.17	-845.08	-80.11	1,610.24	1,578.10	32.14	50.101		
4,700.00	4,627.96	4,328.19	4,216.26	20.53	21.44	-170.06	-867.71	-85.12	1,653.37	1,620.50	32.86	50.310		
4,800.00	4,726.03	4,418.37	4,303.41	21.01	21.95	-169.95	-890.34	-90.13	1,696.50	1,662.91	33.59	50.509		
4,900.00	4,824.10	4,508.54	4,390.56	21.48	22.46	-169.86	-912.96	-95.13	1,739.63	1,705.32	34.31	50.699		

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 5-6-3
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 5-6-3	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	4,922.16	4,601.28	4,477.71	21.96	22.98	-169.76	-935.59	-100.14	1,782.77	1,747.73	35.05	50.866		
5,100.00	5,020.23	4,688.90	4,564.86	22.44	23.48	-169.67	-958.22	-105.15	1,825.92	1,790.15	35.76	51.055		
5,200.00	5,118.29	4,779.08	4,652.01	22.92	23.99	-169.59	-980.85	-110.15	1,869.07	1,832.58	36.49	51.222		
5,300.00	5,216.36	4,869.26	4,739.16	23.39	24.50	-169.51	-1,003.48	-115.16	1,912.22	1,875.00	37.22	51.382		
5,400.00	5,314.42	4,959.43	4,826.31	23.87	25.01	-169.43	-1,026.11	-120.17	1,955.37	1,917.43	37.94	51.535		
5,500.00	5,412.49	5,049.61	4,913.46	24.35	25.52	-169.35	-1,048.73	-125.17	1,998.53	1,959.86	38.67	51.683		
5,600.00	5,510.55	5,139.79	5,000.61	24.83	26.03	-169.28	-1,071.36	-130.18	2,041.69	2,002.29	39.40	51.824		
5,700.00	5,608.62	5,229.97	5,087.75	25.30	26.54	-169.21	-1,093.99	-135.19	2,084.85	2,044.72	40.12	51.960		
5,800.00	5,706.69	5,320.15	5,174.90	25.78	27.05	-169.15	-1,116.62	-140.19	2,128.01	2,087.16	40.85	52.091		
5,900.00	5,804.75	5,410.33	5,262.05	26.26	27.56	-169.08	-1,139.25	-145.20	2,171.18	2,129.60	41.58	52.217		
6,000.00	5,902.82	5,500.50	5,349.20	26.74	28.07	-169.02	-1,161.88	-150.21	2,214.35	2,172.04	42.31	52.339		
6,100.00	6,000.88	5,590.68	5,436.35	27.22	28.58	-168.96	-1,184.50	-155.21	2,257.52	2,214.48	43.04	52.455		
6,200.00	6,098.95	5,680.86	5,523.50	27.69	29.09	-168.91	-1,207.13	-160.22	2,300.69	2,256.92	43.77	52.568		
6,300.00	6,197.01	5,771.04	5,610.65	28.17	29.60	-168.85	-1,229.76	-165.23	2,343.86	2,299.37	44.50	52.677		
6,400.00	6,295.08	5,861.22	5,697.80	28.65	30.11	-168.80	-1,252.39	-170.23	2,387.04	2,341.81	45.22	52.782		
6,500.00	6,393.15	5,951.40	5,784.95	29.13	30.62	-168.75	-1,275.02	-175.24	2,430.21	2,384.26	45.95	52.883		
6,600.00	6,491.21	6,041.57	5,872.10	29.61	31.13	-168.70	-1,297.64	-180.25	2,473.39	2,426.71	46.68	52.981		
6,699.99	6,589.26	6,131.74	5,959.24	30.08	31.64	-168.66	-1,320.27	-185.25	2,516.57	2,469.15	47.42	53.075		
6,702.02	6,591.25	6,133.57	5,961.00	30.09	31.65	-168.66	-1,320.73	-185.36	2,517.44	2,470.01	47.43	53.077		
6,800.00	6,687.65	6,222.62	6,047.06	30.55	32.16	-168.78	-1,343.07	-190.30	2,558.26	2,510.12	48.15	53.136		
6,900.00	6,786.59	6,314.83	6,136.18	30.97	32.68	-168.87	-1,366.21	-195.42	2,596.82	2,547.95	48.87	53.132		
7,000.00	6,885.98	6,408.29	6,226.50	31.36	33.21	-168.94	-1,389.66	-200.61	2,632.20	2,582.60	49.60	53.064		
7,100.00	6,985.69	6,502.88	6,317.91	31.72	33.75	-168.97	-1,413.40	-205.86	2,664.37	2,614.04	50.33	52.937		
7,200.00	7,085.60	6,601.51	6,410.31	32.03	34.31	-168.98	-1,437.39	-211.17	2,693.27	2,642.21	51.07	52.740		
7,266.41	7,152.00	6,662.48	6,472.15	32.23	34.65	179.45	-1,453.45	-214.72	2,710.66	2,659.12	51.53	52.602		
7,296.41	7,182.00	6,708.53	6,500.17	32.31	34.91	179.49	-1,460.72	-216.33	2,718.18	2,666.36	51.82	52.457		
7,300.00	7,185.59	6,694.94	6,503.52	32.32	34.84	-90.66	-1,461.59	-216.52	2,719.08	2,667.31	51.77	52.519		
7,350.00	7,235.52	6,743.32	6,550.28	32.46	35.11	-89.36	-1,473.73	-219.21	2,731.64	2,679.50	52.13	52.397		
7,400.00	7,285.03	6,793.36	6,598.64	32.61	35.39	-88.16	-1,486.29	-221.99	2,744.15	2,691.63	52.52	52.248		
7,450.00	7,333.76	7,450.00	7,316.91	32.76	38.20	-90.50	-1,579.65	-242.65	2,750.30	2,694.09	56.21	48.927		
7,500.00	7,381.34	7,585.90	7,382.88	32.92	38.52	-90.88	-1,579.75	-243.01	2,750.55	2,693.73	56.82	48.408		
7,550.00	7,427.40	7,638.16	7,434.96	33.09	38.65	-91.19	-1,579.73	-247.20	2,750.85	2,693.64	57.21	48.084		
7,600.00	7,471.59	7,692.13	7,488.10	33.26	38.80	-91.50	-1,579.69	-256.49	2,751.23	2,693.60	57.63	47.743		
7,650.00	7,513.58	7,747.92	7,541.87	33.44	38.96	-91.81	-1,579.63	-271.30	2,751.69	2,693.61	58.08	47.381		
7,700.00	7,553.04	7,805.66	7,595.72	33.62	39.13	-92.10	-1,579.54	-292.06	2,752.20	2,693.64	58.56	46.995		
7,750.00	7,589.68	7,865.43	7,648.97	33.82	39.32	-92.39	-1,579.42	-319.13	2,752.76	2,693.66	59.10	46.580		
7,800.00	7,623.22	7,927.29	7,700.81	34.03	39.53	-92.66	-1,579.27	-352.84	2,753.34	2,693.66	59.69	46.130		
7,850.00	7,653.40	7,991.26	7,750.27	34.25	39.75	-92.91	-1,579.10	-393.35	2,753.93	2,693.58	60.35	45.636		
7,900.00	7,680.00	8,057.29	7,796.26	34.50	39.99	-93.14	-1,578.89	-440.68	2,754.50	2,693.40	61.09	45.086		
7,950.00	7,702.80	8,125.27	7,837.60	34.77	40.25	-93.34	-1,578.66	-494.59	2,755.01	2,693.06	61.95	44.471		
8,000.00	7,721.65	8,194.99	7,873.06	35.08	40.55	-93.51	-1,578.40	-554.57	2,755.46	2,692.53	62.93	43.789		
8,050.00	7,736.38	8,266.17	7,901.48	35.42	40.89	-93.64	-1,578.11	-619.78	2,755.81	2,691.77	64.04	43.030		
8,100.00	7,746.90	8,338.44	7,921.84	35.80	41.27	-93.73	-1,577.81	-689.08	2,756.05	2,690.75	65.30	42.207		
8,150.00	7,753.12	8,411.37	7,933.39	36.23	41.72	-93.77	-1,577.50	-761.03	2,756.17	2,689.48	66.69	41.330		
8,196.11	7,755.00	8,474.78	7,936.00	36.66	42.16	-93.77	-1,577.22	-824.36	2,756.16	2,688.14	68.02	40.520		
8,196.48	7,755.00	8,475.15	7,936.00	36.66	42.17	-93.77	-1,577.22	-824.73	2,756.16	2,688.13	68.03	40.515		
8,200.00	7,755.00	8,478.67	7,936.00	36.70	42.19	-93.77	-1,577.21	-828.25	2,756.16	2,688.04	68.12	40.461		
8,300.00	7,755.00	8,578.67	7,936.00	37.76	43.01	-93.77	-1,576.77	-928.25	2,756.17	2,685.32	70.85	38.902		
8,400.00	7,755.00	8,678.67	7,936.00	39.01	43.97	-93.77	-1,576.34	-1,028.25	2,756.17	2,682.31	73.86	37.316		
8,500.00	7,755.00	8,778.67	7,935.99	40.41	45.09	-93.77	-1,575.90	-1,128.25	2,756.18	2,679.05	77.13	35.735		
8,600.00	7,755.00	8,878.67	7,935.99	41.96	46.36	-93.77	-1,575.47	-1,228.25	2,756.18	2,675.56	80.62	34.186		
8,700.00	7,754.99	8,978.67	7,935.99	43.64	47.78	-93.77	-1,575.03	-1,328.25	2,756.18	2,671.87	84.31	32.689		

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 5-6-3
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 5-6-3	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	7,754.99	9,078.67	7,935.99	45.42	49.33	-93.77	-1,574.60	-1,428.25	2,756.19	2,668.01	88.18	31.257		
8,900.00	7,754.99	9,178.67	7,935.99	47.30	51.00	-93.77	-1,574.16	-1,528.25	2,756.19	2,664.00	92.20	29.895		
9,000.00	7,754.99	9,278.67	7,935.99	49.27	52.78	-93.77	-1,573.73	-1,628.24	2,756.20	2,659.85	96.34	28.608		
9,100.00	7,754.99	9,378.67	7,935.98	51.30	54.65	-93.77	-1,573.29	-1,728.24	2,756.20	2,655.59	100.61	27.395		
9,200.00	7,754.99	9,478.67	7,935.98	53.40	56.60	-93.77	-1,572.86	-1,828.24	2,756.21	2,651.23	104.98	26.256		
9,300.00	7,754.99	9,578.67	7,935.98	55.55	58.62	-93.77	-1,572.42	-1,928.24	2,756.21	2,646.78	109.43	25.186		
9,400.00	7,754.99	9,678.67	7,935.98	57.75	60.71	-93.77	-1,571.99	-2,028.24	2,756.21	2,642.25	113.97	24.184		
9,500.00	7,754.98	9,778.67	7,935.98	59.99	62.84	-93.77	-1,571.55	-2,128.24	2,756.22	2,637.64	118.57	23.245		
9,600.00	7,754.98	9,878.67	7,935.97	62.27	65.03	-93.77	-1,571.12	-2,228.24	2,756.22	2,632.98	123.24	22.365		
9,700.00	7,754.98	9,978.67	7,935.97	64.59	67.26	-93.77	-1,570.68	-2,328.24	2,756.23	2,628.26	127.96	21.539		
9,800.00	7,754.98	10,078.67	7,935.97	66.93	69.53	-93.77	-1,570.25	-2,428.24	2,756.23	2,623.49	132.74	20.765		
9,900.00	7,754.98	10,178.67	7,935.97	69.30	71.83	-93.77	-1,569.81	-2,528.24	2,756.24	2,618.68	137.55	20.038		
10,000.00	7,754.98	10,278.67	7,935.97	71.69	74.16	-93.77	-1,569.38	-2,628.24	2,756.24	2,613.83	142.41	19.354		
10,100.00	7,754.98	10,378.67	7,935.97	74.10	76.52	-93.77	-1,568.94	-2,728.23	2,756.24	2,608.94	147.30	18.712		
10,200.00	7,754.98	10,478.67	7,935.96	76.53	78.90	-93.77	-1,568.51	-2,828.23	2,756.25	2,604.02	152.23	18.106		
10,300.00	7,754.98	10,578.67	7,935.96	78.98	81.30	-93.76	-1,568.08	-2,928.23	2,756.25	2,599.07	157.18	17.536		
10,400.00	7,754.97	10,678.67	7,935.96	81.45	83.72	-93.76	-1,567.64	-3,028.23	2,756.26	2,594.09	162.16	16.997		
10,500.00	7,754.97	10,778.67	7,935.96	83.93	86.16	-93.76	-1,567.21	-3,128.23	2,756.26	2,589.09	167.17	16.488		
10,600.00	7,754.97	10,878.67	7,935.96	86.42	88.61	-93.76	-1,566.77	-3,228.23	2,756.26	2,584.07	172.19	16.007		
10,700.00	7,754.97	10,978.67	7,935.95	88.92	91.08	-93.76	-1,566.34	-3,328.23	2,756.27	2,579.03	177.24	15.551		
10,800.00	7,754.97	11,078.67	7,935.95	91.44	93.56	-93.76	-1,565.90	-3,428.23	2,756.27	2,573.96	182.31	15.119		
10,900.00	7,754.97	11,178.67	7,935.95	93.96	96.06	-93.76	-1,565.47	-3,528.23	2,756.28	2,568.89	187.39	14.709		
11,000.00	7,754.97	11,278.67	7,935.95	96.49	98.56	-93.76	-1,565.03	-3,628.23	2,756.28	2,563.79	192.49	14.319		
11,100.00	7,754.97	11,378.67	7,935.95	99.04	101.08	-93.76	-1,564.60	-3,728.22	2,756.29	2,558.68	197.60	13.948		
11,200.00	7,754.96	11,478.67	7,935.95	101.59	103.61	-93.76	-1,564.16	-3,828.22	2,756.29	2,553.56	202.73	13.596		
11,300.00	7,754.96	11,578.67	7,935.94	104.14	106.14	-93.76	-1,563.73	-3,928.22	2,756.29	2,548.42	207.87	13.260		
11,400.00	7,754.96	11,678.67	7,935.94	106.71	108.68	-93.76	-1,563.29	-4,028.22	2,756.30	2,543.28	213.02	12.939		
11,500.00	7,754.96	11,778.67	7,935.94	109.28	111.23	-93.76	-1,562.86	-4,128.22	2,756.30	2,538.12	218.18	12.633		
11,600.00	7,754.96	11,878.67	7,935.94	111.85	113.79	-93.76	-1,562.42	-4,228.22	2,756.31	2,532.95	223.36	12.340		
11,700.00	7,754.96	11,978.67	7,935.94	114.43	116.35	-93.76	-1,561.99	-4,328.22	2,756.31	2,527.77	228.54	12.061		
11,800.00	7,754.96	12,078.67	7,935.93	117.02	118.92	-93.76	-1,561.55	-4,428.22	2,756.32	2,522.59	233.73	11.793		
11,900.00	7,754.96	12,178.67	7,935.93	119.61	121.50	-93.76	-1,561.12	-4,528.22	2,756.32	2,517.40	238.92	11.536		
12,000.00	7,754.95	12,278.67	7,935.93	122.20	124.08	-93.76	-1,560.68	-4,628.22	2,756.32	2,512.19	244.13	11.290		
12,100.00	7,754.95	12,378.67	7,935.93	124.80	126.66	-93.76	-1,560.25	-4,728.22	2,756.33	2,506.99	249.34	11.054		
12,200.00	7,754.95	12,478.67	7,935.93	127.40	129.25	-93.76	-1,559.81	-4,828.21	2,756.33	2,501.77	254.56	10.828		
12,300.00	7,754.95	12,578.67	7,935.93	130.01	131.84	-93.76	-1,559.38	-4,928.21	2,756.34	2,496.55	259.79	10.610		
12,400.00	7,754.95	12,678.67	7,935.92	132.62	134.44	-93.76	-1,558.94	-5,028.21	2,756.34	2,491.32	265.02	10.401		
12,500.00	7,754.95	12,778.67	7,935.92	135.23	137.04	-93.76	-1,558.51	-5,128.21	2,756.35	2,486.09	270.26	10.199		
12,600.00	7,754.95	12,878.67	7,935.92	137.85	139.65	-93.76	-1,558.08	-5,228.21	2,756.35	2,480.85	275.50	10.005		
12,700.00	7,754.95	12,978.67	7,935.92	140.47	142.26	-93.76	-1,557.64	-5,328.21	2,756.35	2,475.61	280.74	9.818		
12,800.00	7,754.95	13,078.67	7,935.92	143.09	144.87	-93.76	-1,557.21	-5,428.21	2,756.36	2,470.36	286.00	9.638		
12,900.00	7,754.94	13,178.67	7,935.91	145.71	147.48	-93.76	-1,556.77	-5,528.21	2,756.36	2,465.11	291.25	9.464		
13,000.00	7,754.94	13,278.67	7,935.91	148.34	150.10	-93.76	-1,556.34	-5,628.21	2,756.37	2,459.85	296.51	9.296		
13,100.00	7,754.94	13,378.67	7,935.91	150.97	152.72	-93.76	-1,555.90	-5,728.21	2,756.37	2,454.59	301.78	9.134		
13,200.00	7,754.94	13,478.67	7,935.91	153.60	155.34	-93.76	-1,555.47	-5,828.20	2,756.38	2,449.33	307.05	8.977		
13,300.00	7,754.94	13,578.67	7,935.91	156.23	157.97	-93.76	-1,555.03	-5,928.20	2,756.38	2,444.06	312.32	8.826		
13,400.00	7,754.94	13,678.67	7,935.91	158.86	160.60	-93.76	-1,554.60	-6,028.20	2,756.38	2,438.79	317.59	8.679		
13,500.00	7,754.94	13,778.67	7,935.90	161.50	163.23	-93.76	-1,554.16	-6,128.20	2,756.39	2,433.52	322.87	8.537		
13,600.00	7,754.94	13,878.67	7,935.90	164.14	165.86	-93.76	-1,553.73	-6,228.20	2,756.39	2,428.24	328.15	8.400		
13,700.00	7,754.93	13,978.67	7,935.90	166.78	168.49	-93.76	-1,553.29	-6,328.20	2,756.40	2,422.96	333.44	8.267		
13,800.00	7,754.93	14,078.67	7,935.90	169.42	171.13	-93.76	-1,552.86	-6,428.20	2,756.40	2,417.68	338.72	8.138		
13,900.00	7,754.93	14,178.67	7,935.90	172.06	173.77	-93.76	-1,552.42	-6,528.20	2,756.41	2,412.39	344.01	8.012		

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 5-6-3
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 5-6-3	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	7,754.93	14,278.67	7,935.89	174.71	176.41	-93.76	-1,551.99	-6,628.20	2,756.41	2,407.10	349.31	7.891		
14,100.00	7,754.93	14,378.67	7,935.89	177.35	179.05	-93.76	-1,551.55	-6,728.20	2,756.41	2,401.81	354.60	7.773		
14,200.00	7,754.93	14,478.67	7,935.89	180.00	181.69	-93.76	-1,551.12	-6,828.20	2,756.42	2,396.52	359.90	7.659		
14,300.00	7,754.93	14,578.67	7,935.89	182.65	184.33	-93.76	-1,550.68	-6,928.19	2,756.42	2,391.23	365.20	7.548		
14,400.00	7,754.93	14,678.67	7,935.89	185.30	186.98	-93.76	-1,550.25	-7,028.19	2,756.43	2,385.93	370.50	7.440		
14,500.00	7,754.93	14,778.67	7,935.89	187.95	189.63	-93.76	-1,549.81	-7,128.19	2,756.43	2,380.63	375.80	7.335		
14,600.00	7,754.92	14,878.67	7,935.88	190.60	192.27	-93.76	-1,549.38	-7,228.19	2,756.44	2,375.33	381.11	7.233		
14,700.00	7,754.92	14,978.67	7,935.88	193.25	194.92	-93.76	-1,548.95	-7,328.19	2,756.44	2,370.03	386.41	7.133		
14,800.00	7,754.92	15,078.67	7,935.88	195.91	197.57	-93.76	-1,548.51	-7,428.19	2,756.44	2,364.72	391.72	7.037		
14,900.00	7,754.92	15,178.67	7,935.88	198.56	200.23	-93.76	-1,548.08	-7,528.19	2,756.45	2,359.41	397.03	6.943		
15,000.00	7,754.92	15,278.67	7,935.88	201.22	202.88	-93.76	-1,547.64	-7,628.19	2,756.45	2,354.11	402.35	6.851		
15,100.00	7,754.92	15,378.67	7,935.87	203.87	205.53	-93.76	-1,547.21	-7,728.19	2,756.46	2,348.80	407.66	6.762		
15,200.00	7,754.92	15,478.67	7,935.87	206.53	208.19	-93.76	-1,546.77	-7,828.19	2,756.46	2,343.48	412.98	6.675		
15,300.00	7,754.92	15,578.67	7,935.87	209.19	210.84	-93.76	-1,546.34	-7,928.19	2,756.47	2,338.17	418.29	6.590		
15,400.00	7,754.91	15,678.67	7,935.87	211.85	213.50	-93.76	-1,545.90	-8,028.18	2,756.47	2,332.86	423.61	6.507		
15,500.00	7,754.91	15,778.67	7,935.87	214.51	216.16	-93.76	-1,545.47	-8,128.18	2,756.47	2,327.54	428.93	6.426		
15,600.00	7,754.91	15,878.67	7,935.87	217.17	218.82	-93.76	-1,545.03	-8,228.18	2,756.48	2,322.23	434.25	6.348		
15,700.00	7,754.91	15,978.67	7,935.86	219.83	221.48	-93.76	-1,544.60	-8,328.18	2,756.48	2,316.91	439.58	6.271		
15,800.00	7,754.91	16,078.67	7,935.86	222.49	224.14	-93.76	-1,544.16	-8,428.18	2,756.49	2,311.59	444.90	6.196		
15,900.00	7,754.91	16,178.67	7,935.86	225.16	226.80	-93.76	-1,543.73	-8,528.18	2,756.49	2,306.27	450.22	6.122		
16,000.00	7,754.91	16,278.67	7,935.86	227.82	229.46	-93.76	-1,543.29	-8,628.18	2,756.50	2,300.95	455.55	6.051		
16,100.00	7,754.91	16,378.67	7,935.86	230.48	232.12	-93.76	-1,542.86	-8,728.18	2,756.50	2,295.62	460.88	5.981		
16,200.00	7,754.90	16,478.67	7,935.85	233.15	234.79	-93.76	-1,542.42	-8,828.18	2,756.50	2,290.30	466.21	5.913		
16,300.00	7,754.90	16,578.67	7,935.85	235.81	237.45	-93.76	-1,541.99	-8,928.18	2,756.51	2,284.97	471.53	5.846		
16,400.00	7,754.90	16,678.67	7,935.85	238.48	240.11	-93.76	-1,541.55	-9,028.17	2,756.51	2,279.65	476.86	5.780		
16,500.00	7,754.90	16,778.67	7,935.85	241.14	242.78	-93.76	-1,541.12	-9,128.17	2,756.52	2,274.32	482.20	5.717		
16,600.00	7,754.90	16,878.67	7,935.85	243.81	245.45	-93.76	-1,540.68	-9,228.17	2,756.52	2,268.99	487.53	5.654		
16,700.00	7,754.90	16,978.67	7,935.85	246.48	248.11	-93.76	-1,540.25	-9,328.17	2,756.53	2,263.67	492.86	5.593		
16,800.00	7,754.90	17,078.67	7,935.84	249.15	250.78	-93.76	-1,539.81	-9,428.17	2,756.53	2,258.34	498.19	5.533		
16,900.00	7,754.90	17,178.67	7,935.84	251.81	253.45	-93.76	-1,539.38	-9,528.17	2,756.53	2,253.01	503.53	5.474		
17,000.00	7,754.90	17,278.67	7,935.84	254.48	256.12	-93.76	-1,538.95	-9,628.17	2,756.54	2,247.67	508.86	5.417		
17,100.00	7,754.89	17,378.67	7,935.84	257.15	258.78	-93.76	-1,538.51	-9,728.17	2,756.54	2,242.34	514.20	5.361		
17,200.00	7,754.89	17,478.67	7,935.84	259.82	261.45	-93.76	-1,538.08	-9,828.17	2,756.55	2,237.01	519.54	5.306		
17,300.00	7,754.89	17,578.67	7,935.83	262.49	264.12	-93.76	-1,537.64	-9,928.17	2,756.55	2,231.68	524.87	5.252		
17,400.00	7,754.89	17,678.67	7,935.83	265.16	266.79	-93.76	-1,537.21	-10,028.17	2,756.56	2,226.34	530.21	5.199		
17,500.00	7,754.89	17,778.67	7,935.83	267.83	269.46	-93.76	-1,536.77	-10,128.16	2,756.56	2,221.01	535.55	5.147		
17,600.00	7,754.89	17,878.67	7,935.83	270.50	272.14	-93.76	-1,536.34	-10,228.16	2,756.56	2,215.67	540.89	5.096		
17,700.00	7,754.89	17,978.67	7,935.83	273.17	274.81	-93.76	-1,535.90	-10,328.16	2,756.57	2,210.34	546.23	5.047		
17,800.00	7,754.89	18,078.67	7,935.83	275.85	277.48	-93.76	-1,535.47	-10,428.16	2,756.57	2,205.00	551.57	4.998		
17,875.18	7,754.88	18,153.00	7,936.00	277.86	279.47	-93.77	-1,534.99	-10,502.48	2,756.44	2,200.87	555.57	4.961		
17,879.50	7,755.00	18,153.00	7,936.00	277.97	279.47	-93.77	-1,534.99	-10,502.48	2,756.18	2,200.49	555.69	4.960 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	126.56	126.56					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	126.56	126.56	126.29	0.27	470.746		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	126.56	126.56	125.58	0.99	128.385		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	126.56	126.56	124.86	1.70	74.328		
400.00	400.00	400.78	400.76	1.21	1.20	90.79	-1.74	126.23	126.25	123.84	2.41	52.462		
500.00	500.00	501.32	501.15	1.57	1.54	93.18	-6.95	125.25	125.45	122.34	3.11	40.363		
600.00	600.00	601.36	600.80	1.93	1.90	97.17	-15.56	123.63	124.61	120.78	3.83	32.567		
630.94	630.94	632.15	631.40	2.04	2.02	110.39	-18.90	123.00	124.51	120.45	4.05	30.709 CC, ES		
700.00	699.98	700.42	699.12	2.29	2.28	115.02	-27.46	121.39	125.19	120.63	4.56	27.442		
800.00	799.84	797.74	795.24	2.65	2.67	123.70	-42.39	118.58	129.77	124.46	5.31	24.419		
900.00	899.45	892.71	888.49	3.01	3.09	133.57	-60.04	115.26	140.82	134.74	6.07	23.190		
1,000.00	998.70	984.77	978.27	3.38	3.52	143.21	-80.05	111.50	160.17	153.36	6.81	23.510		
1,100.00	1,097.47	1,073.44	1,064.08	3.77	3.97	151.60	-101.98	107.37	188.44	180.92	7.52	25.069		
1,164.39	1,160.75	1,128.55	1,117.05	4.03	4.26	156.16	-116.93	104.55	211.20	203.25	7.95	26.574		
1,200.00	1,195.67	1,158.41	1,145.62	4.18	4.43	158.50	-125.45	102.95	225.04	216.86	8.18	27.516		
1,300.00	1,293.73	1,242.24	1,225.38	4.60	4.90	164.09	-150.82	98.18	266.88	258.07	8.81	30.298		
1,400.00	1,391.80	1,329.61	1,308.29	5.04	5.42	168.49	-177.87	93.09	311.06	301.59	9.47	32.835		
1,500.00	1,489.86	1,416.97	1,391.21	5.48	5.95	171.82	-204.92	88.00	356.42	346.28	10.14	35.139		
1,600.00	1,587.93	1,504.33	1,474.12	5.93	6.48	174.42	-231.96	82.90	402.55	391.73	10.82	37.212		
1,700.00	1,686.00	1,608.30	1,557.04	6.38	7.12	176.50	-259.01	77.81	449.21	437.63	11.57	38.821		
1,800.00	1,784.06	1,679.06	1,639.95	6.84	7.56	178.19	-286.06	72.72	496.25	484.07	12.18	40.741		
1,900.00	1,882.13	1,766.43	1,722.87	7.30	8.11	179.59	-313.11	67.63	543.58	530.71	12.87	42.242		
2,000.00	1,980.19	1,853.79	1,805.78	7.76	8.66	-179.23	-340.16	62.54	591.12	577.56	13.56	43.595		
2,100.00	2,078.26	1,941.15	1,888.70	8.22	9.21	-178.22	-367.21	57.45	638.84	624.58	14.25	44.819		
2,200.00	2,176.32	2,028.52	1,971.61	8.69	9.76	-177.35	-394.25	52.36	686.68	671.73	14.95	45.930		
2,300.00	2,274.39	2,115.88	2,054.53	9.15	10.31	-176.60	-421.30	47.27	734.63	718.98	15.65	46.942		
2,400.00	2,372.45	2,203.25	2,137.44	9.62	10.87	-175.93	-448.35	42.18	782.67	766.32	16.35	47.866		
2,500.00	2,470.52	2,290.61	2,220.36	10.09	11.42	-175.35	-475.40	37.09	830.78	813.73	17.05	48.714		
2,600.00	2,568.59	2,377.97	2,303.27	10.56	11.98	-174.82	-502.45	32.00	878.95	861.19	17.76	49.492		
2,700.00	2,666.65	2,465.34	2,386.19	11.03	12.54	-174.35	-529.50	26.91	927.17	908.71	18.47	50.211		
2,800.00	2,764.72	2,552.70	2,469.10	11.50	13.09	-173.93	-556.55	21.82	975.44	956.27	19.17	50.874		
2,900.00	2,862.78	2,640.06	2,552.02	11.97	13.65	-173.55	-583.59	16.72	1,023.74	1,003.86	19.88	51.490		
3,000.00	2,960.85	2,727.43	2,634.93	12.45	14.21	-173.20	-610.64	11.63	1,072.08	1,051.48	20.59	52.062		
3,100.00	3,058.91	2,814.79	2,717.85	12.92	14.77	-172.88	-637.69	6.54	1,120.44	1,099.13	21.30	52.594		
3,200.00	3,156.98	2,902.16	2,800.76	13.39	15.33	-172.59	-664.74	1.45	1,168.82	1,146.81	22.02	53.091		
3,300.00	3,255.05	2,989.52	2,883.68	13.87	15.89	-172.32	-691.79	-3.64	1,217.23	1,194.50	22.73	53.555		
3,400.00	3,353.11	3,076.88	2,966.59	14.34	16.45	-172.07	-718.84	-8.73	1,265.66	1,242.22	23.44	53.991		
3,500.00	3,451.18	3,164.25	3,049.51	14.82	17.01	-171.84	-745.88	-13.82	1,314.10	1,289.95	24.16	54.399		
3,600.00	3,549.24	3,251.61	3,132.42	15.29	17.58	-171.62	-772.93	-18.91	1,362.56	1,337.69	24.87	54.784		
3,700.00	3,647.31	3,338.98	3,215.34	15.77	18.14	-171.42	-799.98	-24.00	1,411.04	1,385.45	25.59	55.145		
3,800.00	3,745.37	3,426.34	3,298.25	16.24	18.70	-171.24	-827.03	-29.09	1,459.52	1,433.22	26.30	55.487		
3,900.00	3,843.44	3,513.70	3,381.17	16.72	19.26	-171.06	-854.08	-34.18	1,508.02	1,481.00	27.02	55.809		
4,000.00	3,941.50	3,601.07	3,464.08	17.19	19.82	-170.90	-881.13	-39.27	1,556.53	1,528.79	27.74	56.114		
4,100.00	4,039.57	3,688.43	3,547.00	17.67	20.39	-170.74	-908.18	-44.36	1,605.04	1,576.59	28.46	56.403		
4,200.00	4,137.64	3,775.79	3,629.91	18.15	20.95	-170.60	-935.22	-49.45	1,653.57	1,624.39	29.18	56.676		
4,300.00	4,235.70	3,863.16	3,712.83	18.62	21.51	-170.46	-962.27	-54.55	1,702.10	1,672.20	29.89	56.936		
4,400.00	4,333.77	3,950.52	3,795.74	19.10	22.08	-170.33	-989.32	-59.64	1,750.64	1,720.02	30.61	57.183		
4,500.00	4,431.83	4,037.89	3,878.66	19.58	22.64	-170.21	-1,016.37	-64.73	1,799.18	1,767.85	31.33	57.418		
4,600.00	4,529.90	4,125.25	3,961.57	20.05	23.20	-170.10	-1,043.42	-69.82	1,847.73	1,815.68	32.06	57.642		
4,700.00	4,627.96	4,212.61	4,044.49	20.53	23.76	-169.99	-1,070.47	-74.91	1,896.29	1,863.51	32.78	57.856		
4,800.00	4,726.03	4,300.02	4,127.41	21.01	24.33	-169.88	-1,097.51	-80.00	1,944.85	1,911.35	33.50	58.059		
4,900.00	4,824.10	4,387.34	4,210.32	21.48	24.89	-169.78	-1,124.56	-85.09	1,993.42	1,959.20	34.22	58.254		

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 5-6-3
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 5-6-3	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	4,922.16	4,474.71	4,293.24	21.96	25.46	-169.69	-1,151.61	-90.18	2,041.99	2,007.05	34.94	58.439		
5,100.00	5,020.23	4,562.07	4,376.15	22.44	26.02	-169.60	-1,178.66	-95.27	2,090.56	2,054.90	35.66	58.617		
5,200.00	5,118.29	4,649.43	4,459.07	22.92	26.58	-169.51	-1,205.71	-100.36	2,139.14	2,102.75	36.39	58.787		
5,300.00	5,216.36	4,736.80	4,541.98	23.39	27.15	-169.43	-1,232.76	-105.45	2,187.72	2,150.61	37.11	58.950		
5,400.00	5,314.42	4,824.16	4,624.90	23.87	27.71	-169.35	-1,259.81	-110.54	2,236.31	2,198.47	37.84	59.106		
5,500.00	5,412.49	4,911.52	4,707.81	24.35	28.27	-169.28	-1,286.85	-115.63	2,284.90	2,246.34	38.56	59.256		
5,600.00	5,510.55	5,001.11	4,790.73	24.83	28.85	-169.21	-1,313.90	-120.73	2,333.49	2,294.19	39.29	59.385		
5,700.00	5,608.62	5,086.25	4,873.64	25.30	29.40	-169.14	-1,340.95	-125.82	2,382.08	2,342.07	40.01	59.538		
5,800.00	5,706.69	5,173.62	4,956.56	25.78	29.97	-169.07	-1,368.00	-130.91	2,430.68	2,389.94	40.73	59.671		
5,900.00	5,804.75	5,260.98	5,039.47	26.26	30.53	-169.01	-1,395.05	-136.00	2,479.28	2,437.82	41.46	59.798		
6,000.00	5,902.82	5,348.34	5,122.39	26.74	31.09	-168.95	-1,422.10	-141.09	2,527.88	2,485.69	42.19	59.921		
6,100.00	6,000.88	5,435.71	5,205.30	27.22	31.66	-168.89	-1,449.15	-146.18	2,576.48	2,533.57	42.91	60.039		
6,200.00	6,098.95	5,523.07	5,288.22	27.69	32.22	-168.83	-1,476.19	-151.27	2,625.09	2,581.45	43.64	60.153		
6,300.00	6,197.01	5,610.44	5,371.13	28.17	32.79	-168.77	-1,503.24	-156.36	2,673.69	2,629.33	44.37	60.262		
6,400.00	6,295.08	5,702.20	5,454.05	28.65	33.38	-168.72	-1,530.29	-161.45	2,722.30	2,677.19	45.11	60.342		
6,500.00	6,393.15	5,785.16	5,536.96	29.13	33.92	-168.67	-1,557.34	-166.54	2,770.91	2,725.09	45.82	60.469		
6,600.00	6,491.21	5,872.53	5,619.88	29.61	34.48	-168.62	-1,584.39	-171.63	2,819.53	2,772.97	46.55	60.567		
6,699.99	6,589.26	5,959.88	5,702.78	30.08	35.05	-168.57	-1,611.43	-176.72	2,868.13	2,820.85	47.28	60.662		
6,702.02	6,591.25	5,961.65	5,704.46	30.09	35.06	-168.57	-1,611.98	-176.83	2,869.12	2,821.82	47.30	60.663		
6,800.00	6,687.65	6,048.03	5,786.44	30.55	35.62	-168.73	-1,638.72	-181.86	2,915.31	2,867.30	48.01	60.723		
6,900.00	6,786.59	6,137.71	5,871.55	30.97	36.19	-168.85	-1,666.49	-187.09	2,959.44	2,910.70	48.74	60.719		
7,000.00	6,885.98	6,228.82	5,958.02	31.36	36.78	-168.95	-1,694.70	-192.39	3,000.47	2,951.00	49.47	60.651		
7,100.00	6,985.69	6,321.25	6,045.75	31.72	37.38	-169.01	-1,723.32	-197.78	3,038.37	2,988.16	50.20	60.522		
7,200.00	7,085.60	6,414.89	6,134.62	32.03	37.99	-169.05	-1,752.31	-203.24	3,073.07	3,022.14	50.93	60.337		
7,266.41	7,152.00	6,477.68	6,194.22	32.23	38.39	-179.36	-1,771.75	-206.90	3,094.34	3,042.93	51.41	60.185		
7,296.41	7,182.00	6,506.16	6,221.24	32.31	38.58	-179.39	-1,780.56	-208.55	3,103.63	3,052.00	51.63	60.111		
7,300.00	7,185.59	6,509.57	6,224.48	32.32	38.60	-90.74	-1,781.62	-208.75	3,104.74	3,053.08	51.66	60.103		
7,350.00	7,235.52	6,557.09	6,269.58	32.46	38.91	-89.10	-1,796.33	-211.52	3,120.23	3,068.21	52.02	59.978		
7,400.00	7,285.03	6,604.47	6,314.55	32.61	39.21	-87.55	-1,811.00	-214.28	3,135.66	3,083.26	52.40	59.838		
7,450.00	7,333.76	7,643.95	7,334.69	32.76	43.74	-90.50	-1,976.85	-245.80	3,147.42	3,089.77	57.65	54.595		
7,500.00	7,381.34	7,695.68	7,386.24	32.92	43.85	-90.71	-1,976.83	-249.82	3,147.55	3,089.53	58.02	54.252		
7,550.00	7,427.40	7,748.58	7,438.37	33.09	43.98	-90.91	-1,976.79	-258.72	3,147.71	3,089.30	58.41	53.891		
7,600.00	7,471.59	7,802.72	7,490.63	33.26	44.11	-91.11	-1,976.73	-272.76	3,147.91	3,089.09	58.83	53.511		
7,650.00	7,513.58	7,858.13	7,542.51	33.44	44.26	-91.30	-1,976.64	-292.17	3,148.14	3,088.87	59.28	53.109		
7,700.00	7,553.04	7,914.83	7,593.40	33.62	44.42	-91.49	-1,976.53	-317.12	3,148.39	3,088.63	59.76	52.680		
7,750.00	7,589.68	7,972.84	7,642.65	33.82	44.59	-91.66	-1,976.40	-347.73	3,148.66	3,088.36	60.30	52.218		
7,800.00	7,623.22	8,032.14	7,689.54	34.03	44.77	-91.82	-1,976.24	-383.99	3,148.93	3,088.04	60.89	51.717		
7,850.00	7,653.40	8,092.68	7,733.28	34.25	44.97	-91.97	-1,976.05	-425.80	3,149.20	3,087.65	61.55	51.167		
7,900.00	7,680.00	8,154.39	7,773.07	34.50	45.17	-92.10	-1,975.84	-472.93	3,149.45	3,087.15	62.29	50.559		
7,950.00	7,702.80	8,217.15	7,808.10	34.77	45.40	-92.22	-1,975.61	-524.96	3,149.67	3,086.53	63.14	49.883		
8,000.00	7,721.65	8,280.82	7,837.62	35.08	45.64	-92.31	-1,975.36	-581.34	3,149.86	3,085.76	64.10	49.141		
8,050.00	7,736.38	8,345.22	7,860.93	35.42	45.92	-92.38	-1,975.10	-641.34	3,150.00	3,084.83	65.17	48.335		
8,100.00	7,746.90	8,410.15	7,877.46	35.80	46.22	-92.42	-1,974.82	-704.09	3,150.10	3,083.73	66.37	47.466		
8,150.00	7,753.12	8,475.37	7,886.82	36.23	46.56	-92.44	-1,974.53	-768.60	3,150.14	3,082.47	67.67	46.552		
8,196.48	7,755.00	8,533.55	7,889.00	36.66	46.90	-92.44	-1,974.28	-826.72	3,150.12	3,081.19	68.94	45.697		
8,200.00	7,755.00	8,537.07	7,889.00	36.70	46.92	-92.44	-1,974.26	-830.24	3,150.12	3,081.10	69.03	45.637		
8,300.00	7,755.00	8,637.07	7,889.00	37.76	47.59	-92.44	-1,973.82	-930.23	3,150.12	3,078.38	71.74	43.912		
8,400.00	7,755.00	8,737.06	7,889.00	39.01	48.37	-92.44	-1,973.37	-1,030.23	3,150.12	3,075.39	74.73	42.156		
8,500.00	7,755.00	8,837.06	7,889.00	40.41	49.28	-92.44	-1,972.93	-1,130.22	3,150.11	3,072.14	77.97	40.400		
8,600.00	7,755.00	8,937.06	7,889.00	41.96	50.32	-92.44	-1,972.49	-1,230.22	3,150.11	3,068.66	81.45	38.678		
8,700.00	7,754.99	9,037.05	7,888.99	43.64	51.50	-92.44	-1,972.05	-1,330.21	3,150.11	3,064.99	85.12	37.009		
8,800.00	7,754.99	9,137.05	7,888.99	45.42	52.82	-92.44	-1,971.60	-1,430.21	3,150.10	3,061.14	88.96	35.410		

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 5-6-3
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 5-6-3	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	7,754.99	9,237.04	7,888.99	47.30	54.26	-92.44	-1,971.16	-1,530.20	3,150.10	3,057.14	92.96	33.887		
9,000.00	7,754.99	9,337.04	7,888.99	49.27	55.82	-92.44	-1,970.72	-1,630.20	3,150.10	3,053.01	97.09	32.445		
9,100.00	7,754.99	9,437.03	7,888.99	51.30	57.50	-92.44	-1,970.28	-1,730.19	3,150.09	3,048.76	101.34	31.085		
9,200.00	7,754.99	9,537.03	7,888.99	53.40	59.27	-92.44	-1,969.84	-1,830.18	3,150.09	3,044.40	105.69	29.805		
9,300.00	7,754.99	9,637.02	7,888.99	55.55	61.13	-92.44	-1,969.39	-1,930.18	3,150.09	3,039.96	110.13	28.603		
9,400.00	7,754.99	9,737.02	7,888.99	57.75	63.06	-92.44	-1,968.95	-2,030.17	3,150.09	3,035.43	114.65	27.475		
9,500.00	7,754.98	9,837.02	7,888.99	59.99	65.07	-92.44	-1,968.51	-2,130.17	3,150.08	3,030.84	119.25	26.416		
9,600.00	7,754.98	9,937.01	7,888.99	62.27	67.14	-92.44	-1,968.07	-2,230.16	3,150.08	3,026.18	123.91	25.423		
9,700.00	7,754.98	10,037.01	7,888.98	64.59	69.26	-92.44	-1,967.63	-2,330.16	3,150.08	3,021.46	128.62	24.492		
9,800.00	7,754.98	10,137.00	7,888.98	66.93	71.43	-92.44	-1,967.19	-2,430.15	3,150.08	3,016.70	133.38	23.617		
9,900.00	7,754.98	10,237.00	7,888.98	69.30	73.64	-92.44	-1,966.75	-2,530.15	3,150.08	3,011.89	138.19	22.795		
10,000.00	7,754.98	10,336.99	7,888.98	71.69	75.89	-92.44	-1,966.31	-2,630.14	3,150.07	3,007.03	143.04	22.022		
10,100.00	7,754.98	10,436.99	7,888.98	74.10	78.17	-92.44	-1,965.87	-2,730.14	3,150.07	3,002.15	147.93	21.295		
10,200.00	7,754.98	10,536.98	7,888.98	76.53	80.49	-92.44	-1,965.43	-2,830.13	3,150.07	2,997.23	152.85	20.610		
10,300.00	7,754.98	10,636.98	7,888.98	78.98	82.83	-92.44	-1,964.99	-2,930.12	3,150.07	2,992.28	157.79	19.963		
10,400.00	7,754.97	10,736.98	7,888.98	81.45	85.19	-92.44	-1,964.55	-3,030.12	3,150.07	2,987.30	162.77	19.353		
10,500.00	7,754.97	10,836.97	7,888.98	83.93	87.58	-92.44	-1,964.11	-3,130.11	3,150.07	2,982.30	167.77	18.776		
10,600.00	7,754.97	10,936.97	7,888.98	86.42	89.98	-92.44	-1,963.67	-3,230.11	3,150.07	2,977.27	172.80	18.230		
10,700.00	7,754.97	11,036.96	7,888.98	88.92	92.41	-92.44	-1,963.23	-3,330.10	3,150.07	2,972.23	177.84	17.713		
10,800.00	7,754.97	11,136.96	7,888.98	91.44	94.85	-92.44	-1,962.79	-3,430.10	3,150.07	2,967.16	182.90	17.223		
10,900.00	7,754.97	11,236.95	7,888.98	93.96	97.30	-92.44	-1,962.35	-3,530.09	3,150.07	2,962.08	187.99	16.757		
11,000.00	7,754.97	11,336.95	7,888.98	96.49	99.77	-92.44	-1,961.91	-3,630.09	3,150.07	2,956.98	193.08	16.315		
11,053.38	7,754.97	11,409.68	7,888.98	97.85	101.57	-92.44	-1,961.67	-3,683.46	3,150.07	2,953.76	196.30	16.047		
11,100.00	7,754.97	11,436.94	7,888.98	99.04	102.25	-92.44	-1,961.47	-3,730.08	3,150.07	2,951.87	198.19	15.894		
11,200.00	7,754.96	11,536.94	7,888.97	101.59	104.74	-92.44	-1,961.03	-3,830.08	3,150.07	2,946.75	203.32	15.493		
11,300.00	7,754.96	11,636.94	7,888.97	104.14	107.25	-92.44	-1,960.59	-3,930.07	3,150.07	2,941.61	208.46	15.111		
11,400.00	7,754.96	11,736.93	7,888.97	106.71	109.76	-92.44	-1,960.15	-4,030.07	3,150.07	2,936.46	213.61	14.747		
11,500.00	7,754.96	11,836.93	7,888.97	109.28	112.28	-92.44	-1,959.71	-4,130.06	3,150.07	2,931.30	218.77	14.399		
11,600.00	7,754.96	11,936.92	7,888.97	111.85	114.81	-92.44	-1,959.28	-4,230.05	3,150.07	2,926.13	223.94	14.066		
11,700.00	7,754.96	12,036.92	7,888.97	114.43	117.35	-92.44	-1,958.84	-4,330.05	3,150.07	2,920.95	229.12	13.748		
11,800.00	7,754.96	12,136.91	7,888.97	117.02	119.90	-92.44	-1,958.40	-4,430.04	3,150.07	2,915.76	234.31	13.444		
11,900.00	7,754.96	12,236.91	7,888.97	119.61	122.45	-92.44	-1,957.96	-4,530.04	3,150.07	2,910.56	239.51	13.152		
12,000.00	7,754.95	12,336.90	7,888.97	122.20	125.01	-92.44	-1,957.52	-4,630.03	3,150.07	2,905.35	244.72	12.872		
12,100.00	7,754.95	12,436.90	7,888.97	124.80	127.58	-92.44	-1,957.09	-4,730.03	3,150.07	2,900.14	249.93	12.604		
12,200.00	7,754.95	12,536.90	7,888.97	127.40	130.15	-92.44	-1,956.65	-4,830.02	3,150.08	2,894.92	255.15	12.346		
12,300.00	7,754.95	12,636.89	7,888.97	130.01	132.72	-92.44	-1,956.21	-4,930.02	3,150.08	2,889.70	260.38	12.098		
12,400.00	7,754.95	12,736.89	7,888.97	132.62	135.30	-92.44	-1,955.77	-5,030.01	3,150.08	2,884.47	265.61	11.860		
12,500.00	7,754.95	12,836.88	7,888.97	135.23	137.89	-92.44	-1,955.34	-5,130.01	3,150.08	2,879.23	270.85	11.630		
12,600.00	7,754.95	12,936.88	7,888.97	137.85	140.48	-92.44	-1,954.90	-5,230.00	3,150.08	2,873.99	276.10	11.409		
12,700.00	7,754.95	13,036.87	7,888.97	140.47	143.07	-92.44	-1,954.46	-5,330.00	3,150.09	2,868.74	281.35	11.196		
12,800.00	7,754.95	13,136.87	7,888.97	143.09	145.67	-92.44	-1,954.03	-5,429.99	3,150.09	2,863.49	286.60	10.991		
12,900.00	7,754.94	13,236.86	7,888.97	145.71	148.27	-92.44	-1,953.59	-5,529.98	3,150.09	2,858.23	291.86	10.793		
13,000.00	7,754.94	13,336.86	7,888.97	148.34	150.87	-92.44	-1,953.15	-5,629.98	3,150.09	2,852.97	297.12	10.602		
13,100.00	7,754.94	13,436.86	7,888.97	150.97	153.48	-92.44	-1,952.72	-5,729.97	3,150.10	2,847.71	302.39	10.417		
13,200.00	7,754.94	13,536.85	7,888.97	153.60	156.09	-92.44	-1,952.28	-5,829.97	3,150.10	2,842.44	307.66	10.239		
13,300.00	7,754.94	13,636.85	7,888.97	156.23	158.70	-92.44	-1,951.84	-5,929.96	3,150.10	2,837.17	312.93	10.066		
13,400.00	7,754.94	13,736.84	7,888.97	158.86	161.32	-92.44	-1,951.41	-6,029.96	3,150.11	2,831.89	318.21	9.899		
13,500.00	7,754.94	13,836.84	7,888.97	161.50	163.94	-92.44	-1,950.97	-6,129.95	3,150.11	2,826.62	323.49	9.738		
13,600.00	7,754.94	13,936.83	7,888.97	164.14	166.56	-92.44	-1,950.54	-6,229.95	3,150.11	2,821.34	328.78	9.581		
13,700.00	7,754.93	14,036.83	7,888.97	166.78	169.18	-92.44	-1,950.10	-6,329.94	3,150.12	2,816.05	334.06	9.430		
13,800.00	7,754.93	14,136.82	7,888.97	169.42	171.81	-92.44	-1,949.67	-6,429.94	3,150.12	2,810.77	339.35	9.283		
13,900.00	7,754.93	14,236.82	7,888.97	172.06	174.44	-92.44	-1,949.23	-6,529.93	3,150.12	2,805.48	344.65	9.140		

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 5-6-3
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 5-6-3	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	7,754.93	14,336.82	7,888.97	174.71	177.07	-92.44	-1,948.80	-6,629.93	3,150.13	2,800.18	349.94	9.002		
14,100.00	7,754.93	14,436.81	7,888.97	177.35	179.70	-92.44	-1,948.36	-6,729.92	3,150.13	2,794.89	355.24	8.868		
14,200.00	7,754.93	14,536.81	7,888.97	180.00	182.33	-92.44	-1,947.93	-6,829.91	3,150.14	2,789.59	360.54	8.737		
14,300.00	7,754.93	14,636.80	7,888.97	182.65	184.97	-92.44	-1,947.49	-6,929.91	3,150.14	2,784.30	365.85	8.611		
14,400.00	7,754.93	14,736.80	7,888.97	185.30	187.61	-92.44	-1,947.06	-7,029.90	3,150.15	2,779.00	371.15	8.488		
14,500.00	7,754.93	14,836.79	7,888.97	187.95	190.24	-92.44	-1,946.62	-7,129.90	3,150.15	2,773.69	376.46	8.368		
14,600.00	7,754.92	14,936.79	7,888.97	190.60	192.89	-92.44	-1,946.19	-7,229.89	3,150.16	2,768.39	381.77	8.252		
14,700.00	7,754.92	15,036.78	7,888.97	193.25	195.53	-92.44	-1,945.76	-7,329.89	3,150.16	2,763.08	387.08	8.138		
14,800.00	7,754.92	15,136.78	7,888.97	195.91	198.17	-92.44	-1,945.32	-7,429.88	3,150.17	2,757.78	392.39	8.028		
14,900.00	7,754.92	15,236.78	7,888.98	198.56	200.82	-92.44	-1,944.89	-7,529.88	3,150.17	2,752.47	397.71	7.921		
15,000.00	7,754.92	15,336.77	7,888.98	201.22	203.46	-92.44	-1,944.45	-7,629.87	3,150.18	2,747.15	403.02	7.816		
15,100.00	7,754.92	15,436.77	7,888.98	203.87	206.11	-92.44	-1,944.02	-7,729.87	3,150.18	2,741.84	408.34	7.715		
15,200.00	7,754.92	15,536.76	7,888.98	206.53	208.76	-92.44	-1,943.59	-7,829.86	3,150.19	2,736.53	413.66	7.615		
15,300.00	7,754.92	15,636.76	7,888.98	209.19	211.41	-92.44	-1,943.15	-7,929.85	3,150.19	2,731.21	418.98	7.519		
15,400.00	7,754.91	15,736.75	7,888.98	211.85	214.06	-92.44	-1,942.72	-8,029.85	3,150.20	2,725.90	424.30	7.424		
15,500.00	7,754.91	15,836.75	7,888.98	214.51	216.71	-92.44	-1,942.29	-8,129.84	3,150.21	2,720.58	429.63	7.332		
15,600.00	7,754.91	15,936.74	7,888.98	217.17	219.36	-92.44	-1,941.86	-8,229.84	3,150.21	2,715.26	434.95	7.243		
15,700.00	7,754.91	16,036.74	7,888.98	219.83	222.02	-92.44	-1,941.42	-8,329.83	3,150.22	2,709.94	440.28	7.155		
15,800.00	7,754.91	16,136.74	7,888.98	222.49	224.67	-92.44	-1,940.99	-8,429.83	3,150.23	2,704.62	445.61	7.070		
15,900.00	7,754.91	16,236.73	7,888.98	225.16	227.33	-92.44	-1,940.56	-8,529.82	3,150.23	2,699.30	450.94	6.986		
16,000.00	7,754.91	16,336.73	7,888.98	227.82	229.98	-92.44	-1,940.13	-8,629.82	3,150.24	2,693.97	456.27	6.904		
16,100.00	7,754.91	16,436.72	7,888.98	230.48	232.64	-92.44	-1,939.69	-8,729.81	3,150.25	2,688.65	461.60	6.825		
16,200.00	7,754.90	16,536.72	7,888.98	233.15	235.30	-92.44	-1,939.26	-8,829.81	3,150.25	2,683.32	466.93	6.747		
16,300.00	7,754.90	16,636.71	7,888.98	235.81	237.96	-92.44	-1,938.83	-8,929.80	3,150.26	2,678.00	472.26	6.671		
16,400.00	7,754.90	16,736.71	7,888.98	238.48	240.62	-92.44	-1,938.40	-9,029.80	3,150.27	2,672.67	477.60	6.596		
16,500.00	7,754.90	16,836.70	7,888.99	241.14	243.28	-92.44	-1,937.97	-9,129.79	3,150.28	2,667.34	482.93	6.523		
16,600.00	7,754.90	16,936.70	7,888.99	243.81	245.94	-92.44	-1,937.53	-9,229.79	3,150.28	2,662.01	488.27	6.452		
16,700.00	7,754.90	17,036.70	7,888.99	246.48	248.60	-92.44	-1,937.10	-9,329.78	3,150.29	2,656.68	493.61	6.382		
16,800.00	7,754.90	17,136.69	7,888.99	249.15	251.27	-92.44	-1,936.67	-9,429.77	3,150.30	2,651.35	498.95	6.314		
16,900.00	7,754.90	17,236.69	7,888.99	251.81	253.93	-92.44	-1,936.24	-9,529.77	3,150.31	2,646.02	504.29	6.247		
17,000.00	7,754.90	17,336.68	7,888.99	254.48	256.59	-92.44	-1,935.81	-9,629.76	3,150.32	2,640.69	509.63	6.182		
17,100.00	7,754.89	17,436.68	7,888.99	257.15	259.26	-92.44	-1,935.38	-9,729.76	3,150.33	2,635.36	514.97	6.118		
17,200.00	7,754.89	17,536.67	7,888.99	259.82	261.92	-92.44	-1,934.95	-9,829.75	3,150.33	2,630.03	520.31	6.055		
17,300.00	7,754.89	17,636.67	7,888.99	262.49	264.59	-92.44	-1,934.52	-9,929.75	3,150.34	2,624.69	525.65	5.993		
17,400.00	7,754.89	17,736.66	7,888.99	265.16	267.26	-92.44	-1,934.09	-10,029.74	3,150.35	2,619.36	530.99	5.933		
17,500.00	7,754.89	17,836.66	7,889.00	267.83	269.92	-92.44	-1,933.66	-10,129.74	3,150.36	2,614.02	536.34	5.874		
17,600.00	7,754.89	17,936.66	7,889.00	270.50	272.59	-92.44	-1,933.23	-10,229.73	3,150.37	2,608.69	541.68	5.816		
17,700.00	7,754.89	18,036.65	7,889.00	273.17	275.26	-92.44	-1,932.80	-10,329.73	3,150.38	2,603.35	547.03	5.759		
17,800.00	7,754.89	18,136.65	7,889.00	275.85	277.93	-92.44	-1,932.37	-10,429.72	3,150.39	2,598.02	552.37	5.703		
17,874.99	7,754.88	18,211.64	7,889.00	277.85	279.93	-92.44	-1,932.05	-10,504.71	3,150.40	2,594.01	556.38	5.662		
17,879.50	7,755.00	18,212.39	7,889.00	277.97	279.95	-92.44	-1,932.04	-10,505.46	3,150.14	2,593.61	556.53	5.660 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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	200.78	200.76	0.49	0.49	90.70	-1.75	143.15	143.16	142.18	0.98	146.448		
300.00	300.00	301.31	301.15	0.85	0.85	92.81	-6.98	142.29	142.46	140.76	1.70	83.971		
400.00	400.00	401.35	400.79	1.21	1.22	96.33	-15.62	140.86	141.72	139.29	2.43	58.234		
465.07	465.07	466.07	465.07	1.44	1.48	99.37	-23.04	139.63	141.52	138.60	2.93	48.359 CC		
500.00	500.00	500.66	499.35	1.57	1.62	101.24	-27.60	138.88	141.60	138.41	3.19	44.379 ES		
600.00	600.00	599.00	596.48	1.93	2.04	107.41	-42.77	136.38	142.97	139.00	3.97	36.027		
700.00	699.98	695.82	691.54	2.29	2.49	126.56	-60.91	133.38	147.91	143.15	4.76	31.076		
800.00	799.84	790.30	783.64	2.65	2.96	135.19	-81.66	129.96	159.22	153.67	5.55	28.702		
900.00	899.45	881.88	872.21	3.01	3.44	143.74	-104.62	126.17	178.51	172.20	6.31	28.303		
1,000.00	998.70	970.08	956.77	3.38	3.95	151.37	-129.37	122.09	206.42	199.40	7.02	29.400		
1,100.00	1,097.47	1,054.52	1,036.95	3.77	4.46	157.73	-155.45	117.78	242.71	235.02	7.69	31.558		
1,164.39	1,160.75	1,106.74	1,086.15	4.03	4.79	161.16	-172.74	114.93	270.18	262.08	8.10	33.349		
1,200.00	1,195.67	1,134.97	1,112.60	4.18	4.97	162.94	-182.46	113.32	286.47	278.15	8.32	34.421		
1,300.00	1,293.73	1,213.38	1,185.57	4.60	5.50	167.23	-210.78	108.65	334.77	325.85	8.91	37.552		
1,400.00	1,391.80	1,302.61	1,263.43	5.04	6.12	170.82	-241.92	103.51	385.19	375.60	9.59	40.156		
1,500.00	1,489.86	1,381.40	1,341.28	5.48	6.68	173.61	-273.06	98.37	436.53	426.31	10.22	42.695		
1,600.00	1,587.93	1,465.42	1,419.14	5.93	7.27	175.83	-304.20	93.23	488.49	477.61	10.89	44.863		
1,700.00	1,686.00	1,549.43	1,497.00	6.38	7.87	177.63	-335.35	88.09	540.91	529.35	11.56	46.798		
1,800.00	1,784.06	1,633.44	1,574.86	6.84	8.48	179.12	-366.49	82.95	593.65	581.41	12.23	48.528		
1,900.00	1,882.13	1,717.46	1,652.72	7.30	9.08	-179.63	-397.63	77.81	646.63	633.72	12.91	50.080		
2,000.00	1,980.19	1,801.47	1,730.58	7.76	9.69	-178.56	-428.78	72.67	699.81	686.22	13.59	51.476		
2,100.00	2,078.26	1,885.49	1,808.44	8.22	10.29	-177.65	-459.92	67.53	753.14	738.86	14.28	52.737		
2,200.00	2,176.32	1,969.50	1,886.30	8.69	10.90	-176.85	-491.06	62.40	806.59	791.62	14.97	53.879		
2,300.00	2,274.39	2,053.51	1,964.15	9.15	11.51	-176.15	-522.20	57.26	860.14	844.48	15.66	54.919		
2,400.00	2,372.45	2,137.53	2,042.01	9.62	12.12	-175.54	-553.35	52.12	913.77	897.42	16.36	55.867		
2,500.00	2,470.52	2,221.54	2,119.87	10.09	12.73	-174.99	-584.49	46.98	967.47	950.42	17.05	56.736		
2,600.00	2,568.59	2,305.55	2,197.73	10.56	13.34	-174.50	-615.63	41.84	1,021.23	1,003.48	17.75	57.534		
2,700.00	2,666.65	2,389.57	2,275.59	11.03	13.96	-174.05	-646.77	36.70	1,075.03	1,056.58	18.45	58.269		
2,800.00	2,764.72	2,473.58	2,353.45	11.50	14.57	-173.65	-677.92	31.56	1,128.88	1,109.73	19.15	58.948		
2,900.00	2,862.78	2,557.59	2,431.31	11.97	15.18	-173.29	-709.06	26.42	1,182.76	1,162.91	19.85	59.576		
3,000.00	2,960.85	2,641.61	2,509.17	12.45	15.80	-172.96	-740.20	21.28	1,236.67	1,216.11	20.56	60.160		
3,100.00	3,058.91	2,725.62	2,587.02	12.92	16.41	-172.65	-771.35	16.14	1,290.61	1,269.35	21.26	60.703		
3,200.00	3,156.98	2,809.63	2,664.88	13.39	17.02	-172.37	-802.49	11.00	1,344.57	1,322.61	21.97	61.209		
3,300.00	3,255.05	2,906.35	2,742.74	13.87	17.73	-172.11	-833.63	5.86	1,398.56	1,375.83	22.73	61.523		
3,400.00	3,353.11	2,977.66	2,820.60	14.34	18.25	-171.87	-864.77	0.72	1,452.56	1,429.18	23.38	62.125		
3,500.00	3,451.18	3,061.68	2,898.46	14.82	18.87	-171.65	-895.92	-4.42	1,506.58	1,482.49	24.09	62.541		
3,600.00	3,549.24	3,145.69	2,976.32	15.29	19.48	-171.44	-927.06	-9.56	1,560.62	1,535.82	24.80	62.931		
3,700.00	3,647.31	3,229.70	3,054.18	15.77	20.10	-171.25	-958.20	-14.70	1,614.67	1,589.16	25.51	63.298		
3,800.00	3,745.37	3,313.72	3,132.04	16.24	20.71	-171.07	-989.34	-19.84	1,668.73	1,642.51	26.22	63.644		
3,900.00	3,843.44	3,402.27	3,209.89	16.72	21.36	-170.90	-1,020.49	-24.98	1,722.80	1,695.85	26.95	63.922		
4,000.00	3,941.50	3,481.74	3,287.75	17.19	21.94	-170.74	-1,051.63	-30.12	1,776.88	1,749.24	27.64	64.280		
4,100.00	4,039.57	3,565.76	3,365.61	17.67	22.56	-170.59	-1,082.77	-35.26	1,830.98	1,802.62	28.36	64.572		
4,200.00	4,137.64	3,649.77	3,443.47	18.15	23.18	-170.45	-1,113.92	-40.40	1,885.08	1,856.01	29.07	64.848		
4,300.00	4,235.70	3,733.78	3,521.33	18.62	23.79	-170.31	-1,145.06	-45.54	1,939.18	1,909.40	29.78	65.111		
4,400.00	4,333.77	3,817.80	3,599.19	19.10	24.41	-170.19	-1,176.20	-50.68	1,993.30	1,962.80	30.50	65.360		
4,500.00	4,431.83	3,901.81	3,677.05	19.58	25.02	-170.07	-1,207.34	-55.82	2,047.42	2,016.21	31.21	65.597		
4,600.00	4,529.90	3,985.82	3,754.91	20.05	25.64	-169.95	-1,238.49	-60.96	2,101.55	2,069.62	31.93	65.822		
4,700.00	4,627.96	4,069.84	3,832.77	20.53	26.26	-169.85	-1,269.63	-66.10	2,155.68	2,123.04	32.64	66.036		
4,800.00	4,726.03	4,153.85	3,910.62	21.01	26.87	-169.74	-1,300.77	-71.23	2,209.82	2,176.46	33.36	66.241		
4,900.00	4,824.10	4,237.87	3,988.48	21.48	27.49	-169.65	-1,331.92	-76.37	2,263.96	2,229.88	34.08	66.436		

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 5-6-3
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 5-6-3	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	4,922.16	4,321.88	4,066.34	21.96	28.11	-169.55	-1,363.06	-81.51	2,318.11	2,283.31	34.80	66.622		
5,100.00	5,020.23	4,405.89	4,144.20	22.44	28.72	-169.46	-1,394.20	-86.65	2,372.26	2,336.75	35.51	66.800		
5,200.00	5,118.29	4,489.91	4,222.06	22.92	29.34	-169.38	-1,425.34	-91.79	2,426.41	2,390.18	36.23	66.970		
5,300.00	5,216.36	4,573.92	4,299.92	23.39	29.96	-169.30	-1,456.49	-96.93	2,480.57	2,443.62	36.95	67.132		
5,400.00	5,314.42	4,657.93	4,377.78	23.87	30.57	-169.22	-1,487.63	-102.07	2,534.74	2,497.07	37.67	67.288		
5,500.00	5,412.49	4,741.95	4,455.64	24.35	31.19	-169.15	-1,518.77	-107.21	2,588.90	2,550.51	38.39	67.437		
5,600.00	5,510.55	4,825.96	4,533.49	24.83	31.81	-169.07	-1,549.91	-112.35	2,643.07	2,603.96	39.11	67.580		
5,700.00	5,608.62	4,909.97	4,611.35	25.30	32.42	-169.01	-1,581.06	-117.49	2,697.24	2,657.41	39.83	67.716		
5,800.00	5,706.69	5,006.01	4,689.21	25.78	33.13	-168.94	-1,612.20	-122.63	2,751.41	2,710.81	40.61	67.756		
5,900.00	5,804.75	5,078.00	4,767.07	26.26	33.66	-168.88	-1,643.34	-127.77	2,805.59	2,764.32	41.27	67.974		
6,000.00	5,902.82	5,162.01	4,844.93	26.74	34.27	-168.82	-1,674.49	-132.91	2,859.77	2,817.77	42.00	68.095		
6,100.00	6,000.88	5,246.03	4,922.79	27.22	34.89	-168.76	-1,705.63	-138.05	2,913.95	2,871.23	42.72	68.211		
6,200.00	6,098.95	5,330.04	5,000.65	27.69	35.51	-168.70	-1,736.77	-143.19	2,968.13	2,924.69	43.44	68.323		
6,300.00	6,197.01	5,414.05	5,078.51	28.17	36.12	-168.65	-1,767.91	-148.33	3,022.32	2,978.15	44.17	68.430		
6,400.00	6,295.08	5,498.07	5,156.36	28.65	36.74	-168.59	-1,799.06	-153.47	3,076.50	3,031.61	44.89	68.533		
6,500.00	6,393.15	5,582.08	5,234.22	29.13	37.36	-168.54	-1,830.20	-158.61	3,130.69	3,085.08	45.62	68.633		
6,600.00	6,491.21	5,666.10	5,312.08	29.61	37.98	-168.49	-1,861.34	-163.75	3,184.88	3,138.54	46.34	68.728		
6,699.99	6,589.26	5,750.10	5,389.93	30.08	38.59	-168.45	-1,892.48	-168.89	3,239.07	3,192.00	47.07	68.820		
6,702.02	6,591.25	5,751.80	5,391.51	30.09	38.60	-168.44	-1,893.11	-168.99	3,240.17	3,193.09	47.08	68.822		
6,800.00	6,687.65	5,834.99	5,468.60	30.55	39.22	-168.64	-1,923.95	-174.08	3,291.88	3,244.08	47.79	68.879		
6,900.00	6,786.59	5,921.60	5,548.87	30.97	39.85	-168.80	-1,956.05	-179.38	3,341.75	3,293.23	48.52	68.871		
7,000.00	6,885.98	6,009.84	5,630.64	31.36	40.50	-168.92	-1,988.76	-184.78	3,388.63	3,339.37	49.25	68.798		
7,100.00	6,985.69	6,099.59	5,713.82	31.72	41.16	-169.02	-2,022.03	-190.27	3,432.46	3,382.47	49.99	68.665		
7,200.00	7,085.60	6,209.24	5,798.31	32.03	41.97	-169.10	-2,055.83	-195.84	3,473.19	3,422.38	50.81	68.360		
7,266.41	7,152.00	6,252.03	5,855.09	32.23	42.28	-179.29	-2,078.54	-199.59	3,498.50	3,447.29	51.21	68.317		
7,296.41	7,182.00	6,279.83	5,880.85	32.31	42.48	-179.32	-2,088.85	-201.29	3,509.63	3,458.20	51.43	68.241		
7,300.00	7,185.59	6,283.16	5,883.94	32.32	42.51	-90.78	-2,090.08	-201.50	3,510.96	3,459.50	51.46	68.232		
7,350.00	7,235.52	6,329.57	5,926.95	32.46	42.85	-88.77	-2,107.28	-204.34	3,529.50	3,477.68	51.83	68.102		
7,400.00	7,285.03	7,728.29	7,286.25	32.61	49.40	-90.11	-2,373.81	-257.89	3,544.31	3,485.74	58.57	60.513		
7,450.00	7,333.76	7,778.88	7,335.52	32.76	49.51	-90.11	-2,373.76	-269.28	3,544.31	3,485.39	58.92	60.152		
7,500.00	7,381.34	7,829.45	7,383.59	32.92	49.63	-90.11	-2,373.69	-284.96	3,544.31	3,485.02	59.30	59.773		
7,550.00	7,427.40	7,880.00	7,430.06	33.09	49.75	-90.10	-2,373.61	-304.81	3,544.31	3,484.62	59.69	59.375		
7,600.00	7,471.59	7,930.53	7,474.59	33.26	49.88	-90.10	-2,373.50	-328.66	3,544.31	3,484.20	60.12	58.955		
7,650.00	7,513.58	7,981.04	7,516.82	33.44	50.01	-90.09	-2,373.38	-356.33	3,544.32	3,483.74	60.58	58.508		
7,700.00	7,553.04	8,031.51	7,556.43	33.62	50.15	-90.09	-2,373.25	-387.58	3,544.32	3,483.24	61.08	58.030		
7,750.00	7,589.68	8,081.95	7,593.11	33.82	50.30	-90.08	-2,373.10	-422.18	3,544.32	3,482.69	61.63	57.513		
7,800.00	7,623.22	8,132.34	7,626.58	34.03	50.45	-90.07	-2,372.93	-459.83	3,544.32	3,482.08	62.23	56.951		
7,850.00	7,653.40	8,182.70	7,656.59	34.25	50.60	-90.06	-2,372.76	-500.25	3,544.32	3,481.41	62.91	56.339		
7,900.00	7,680.00	8,233.02	7,682.92	34.50	50.77	-90.06	-2,372.57	-543.11	3,544.32	3,480.66	63.66	55.673		
7,950.00	7,702.80	8,283.28	7,705.37	34.77	50.94	-90.05	-2,372.38	-588.06	3,544.32	3,479.82	64.50	54.951		
8,000.00	7,721.65	8,333.50	7,723.78	35.08	51.13	-90.04	-2,372.17	-634.77	3,544.33	3,478.90	65.42	54.177		
8,050.00	7,736.38	8,383.67	7,738.02	35.42	51.33	-90.03	-2,371.97	-682.86	3,544.33	3,477.90	66.43	53.353		
8,100.00	7,746.90	8,433.79	7,747.99	35.80	51.54	-90.02	-2,371.75	-731.96	3,544.33	3,476.81	67.52	52.491		
8,150.00	7,753.12	8,483.86	7,753.63	36.23	51.77	-90.01	-2,371.54	-781.69	3,544.33	3,475.64	68.69	51.599		
8,196.48	7,755.00	8,530.35	7,755.00	36.66	52.00	-90.00	-2,371.34	-828.16	3,544.33	3,474.50	69.83	50.755		
8,200.00	7,755.00	8,533.87	7,755.00	36.70	52.02	-90.00	-2,371.32	-831.68	3,544.33	3,474.41	69.92	50.690		
8,300.00	7,755.00	8,633.87	7,755.00	37.76	52.58	-90.00	-2,370.89	-931.67	3,544.34	3,471.73	72.61	48.810		
8,400.00	7,755.00	8,733.87	7,755.00	39.01	53.23	-90.00	-2,370.45	-1,031.67	3,544.34	3,468.76	75.59	46.892		
8,500.00	7,755.00	8,833.87	7,755.00	40.41	53.98	-90.00	-2,370.02	-1,131.67	3,544.35	3,465.54	78.81	44.972		
8,600.00	7,755.00	8,933.87	7,755.00	41.96	54.84	-90.00	-2,369.58	-1,231.67	3,544.35	3,462.09	82.27	43.084		
8,700.00	7,754.99	9,033.87	7,755.00	43.64	55.82	-90.00	-2,369.15	-1,331.67	3,544.36	3,458.44	85.92	41.253		
8,800.00	7,754.99	9,133.87	7,755.00	45.42	56.91	-90.00	-2,368.72	-1,431.67	3,544.37	3,454.62	89.74	39.494		

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 5-6-3
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 5-6-3	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	7,754.99	9,233.87	7,755.00	47.30	58.13	-90.00	-2,368.28	-1,531.67	3,544.37	3,450.65	93.72	37.817		
9,000.00	7,754.99	9,333.87	7,755.00	49.27	59.46	-90.00	-2,367.85	-1,631.67	3,544.38	3,446.54	97.84	36.227		
9,100.00	7,754.99	9,433.87	7,755.00	51.30	60.91	-90.00	-2,367.41	-1,731.67	3,544.38	3,442.31	102.07	34.725		
9,200.00	7,754.99	9,533.87	7,755.00	53.40	62.47	-90.00	-2,366.98	-1,831.67	3,544.39	3,437.98	106.41	33.310		
9,300.00	7,754.99	9,633.87	7,755.00	55.55	64.13	-90.00	-2,366.55	-1,931.67	3,544.39	3,433.56	110.83	31.979		
9,400.00	7,754.99	9,733.87	7,755.00	57.75	65.89	-90.00	-2,366.11	-2,031.66	3,544.40	3,429.05	115.34	30.729		
9,500.00	7,754.98	9,833.87	7,755.00	59.99	67.72	-90.00	-2,365.68	-2,131.66	3,544.40	3,424.48	119.92	29.555		
9,600.00	7,754.98	9,933.87	7,755.00	62.27	69.64	-90.00	-2,365.24	-2,231.66	3,544.41	3,419.84	124.57	28.453		
9,700.00	7,754.98	10,033.87	7,755.00	64.59	71.62	-90.00	-2,364.81	-2,331.66	3,544.41	3,415.14	129.27	27.418		
9,800.00	7,754.98	10,133.87	7,755.00	66.93	73.66	-90.00	-2,364.38	-2,431.66	3,544.42	3,410.39	134.03	26.446		
9,900.00	7,754.98	10,233.87	7,755.00	69.30	75.76	-90.00	-2,363.94	-2,531.66	3,544.42	3,405.60	138.83	25.532		
10,000.00	7,754.98	10,333.87	7,755.00	71.69	77.90	-90.00	-2,363.51	-2,631.66	3,544.43	3,400.76	143.67	24.671		
10,100.00	7,754.98	10,433.87	7,755.00	74.10	80.09	-90.00	-2,363.07	-2,731.66	3,544.43	3,395.89	148.54	23.861		
10,200.00	7,754.98	10,533.87	7,755.00	76.53	82.31	-90.00	-2,362.64	-2,831.66	3,544.44	3,390.98	153.46	23.097		
10,300.00	7,754.98	10,633.87	7,755.00	78.98	84.57	-90.00	-2,362.20	-2,931.66	3,544.44	3,386.04	158.40	22.377		
10,400.00	7,754.97	10,733.87	7,755.00	81.45	86.86	-90.00	-2,361.77	-3,031.65	3,544.45	3,381.08	163.37	21.696		
10,500.00	7,754.97	10,833.87	7,755.00	83.93	89.18	-90.00	-2,361.34	-3,131.65	3,544.45	3,376.09	168.37	21.052		
10,600.00	7,754.97	10,933.87	7,755.00	86.42	91.52	-90.00	-2,360.90	-3,231.65	3,544.46	3,371.07	173.38	20.443		
10,700.00	7,754.97	11,033.87	7,755.00	88.92	93.89	-90.00	-2,360.47	-3,331.65	3,544.46	3,366.04	178.42	19.865		
10,800.00	7,754.97	11,133.87	7,755.00	91.44	96.28	-90.00	-2,360.03	-3,431.65	3,544.47	3,360.98	183.48	19.318		
10,900.00	7,754.97	11,233.87	7,754.99	93.96	98.68	-90.00	-2,359.60	-3,531.65	3,544.47	3,355.91	188.56	18.797		
11,000.00	7,754.97	11,333.87	7,754.99	96.49	101.10	-90.00	-2,359.17	-3,631.65	3,544.48	3,350.82	193.66	18.303		
11,100.00	7,754.97	11,433.87	7,754.99	99.04	103.54	-90.00	-2,358.73	-3,731.65	3,544.48	3,345.72	198.76	17.833		
11,200.00	7,754.96	11,533.87	7,754.99	101.59	105.99	-90.00	-2,358.30	-3,831.65	3,544.49	3,340.60	203.89	17.385		
11,300.00	7,754.96	11,633.87	7,754.99	104.14	108.46	-90.00	-2,357.86	-3,931.65	3,544.49	3,335.47	209.02	16.957		
11,400.00	7,754.96	11,733.87	7,754.99	106.71	110.94	-90.00	-2,357.43	-4,031.65	3,544.50	3,330.32	214.17	16.550		
11,500.00	7,754.96	11,833.87	7,754.99	109.28	113.43	-90.00	-2,357.00	-4,131.64	3,544.50	3,325.17	219.33	16.160		
11,600.00	7,754.96	11,933.87	7,754.99	111.85	115.93	-90.00	-2,356.56	-4,231.64	3,544.51	3,320.00	224.50	15.788		
11,700.00	7,754.96	12,033.87	7,754.99	114.43	118.44	-90.00	-2,356.13	-4,331.64	3,544.51	3,314.83	229.68	15.432		
11,800.00	7,754.96	12,133.87	7,754.99	117.02	120.96	-90.00	-2,355.69	-4,431.64	3,544.52	3,309.65	234.87	15.091		
11,900.00	7,754.96	12,233.87	7,754.99	119.61	123.48	-90.00	-2,355.26	-4,531.64	3,544.52	3,304.45	240.07	14.765		
12,000.00	7,754.95	12,333.87	7,754.99	122.20	126.02	-90.00	-2,354.83	-4,631.64	3,544.53	3,299.25	245.27	14.451		
12,100.00	7,754.95	12,433.87	7,754.99	124.80	128.56	-90.00	-2,354.39	-4,731.64	3,544.53	3,294.04	250.49	14.151		
12,200.00	7,754.95	12,533.87	7,754.99	127.40	131.11	-90.00	-2,353.96	-4,831.64	3,544.54	3,288.83	255.71	13.862		
12,300.00	7,754.95	12,633.87	7,754.99	130.01	133.66	-90.00	-2,353.52	-4,931.64	3,544.54	3,283.61	260.93	13.584		
12,400.00	7,754.95	12,733.87	7,754.99	132.62	136.22	-90.00	-2,353.09	-5,031.64	3,544.55	3,278.38	266.17	13.317		
12,500.00	7,754.95	12,833.87	7,754.99	135.23	138.79	-90.00	-2,352.66	-5,131.64	3,544.55	3,273.15	271.41	13.060		
12,600.00	7,754.95	12,933.87	7,754.99	137.85	141.36	-90.00	-2,352.22	-5,231.63	3,544.56	3,267.91	276.65	12.812		
12,700.00	7,754.95	13,033.87	7,754.99	140.47	143.93	-90.00	-2,351.79	-5,331.63	3,544.56	3,262.66	281.90	12.574		
12,800.00	7,754.95	13,133.87	7,754.99	143.09	146.51	-90.00	-2,351.35	-5,431.63	3,544.57	3,257.41	287.15	12.344		
12,900.00	7,754.94	13,233.87	7,754.99	145.71	149.10	-90.00	-2,350.92	-5,531.63	3,544.57	3,252.16	292.41	12.122		
13,000.00	7,754.94	13,333.87	7,754.99	148.34	151.69	-90.00	-2,350.49	-5,631.63	3,544.58	3,246.90	297.68	11.907		
13,100.00	7,754.94	13,433.87	7,754.99	150.97	154.28	-90.00	-2,350.05	-5,731.63	3,544.58	3,241.64	302.95	11.700		
13,200.00	7,754.94	13,533.87	7,754.99	153.60	156.88	-90.00	-2,349.62	-5,831.63	3,544.59	3,236.37	308.22	11.500		
13,300.00	7,754.94	13,633.87	7,754.99	156.23	159.48	-90.00	-2,349.18	-5,931.63	3,544.59	3,231.10	313.49	11.307		
13,400.00	7,754.94	13,733.87	7,754.99	158.86	162.08	-90.00	-2,348.75	-6,031.63	3,544.60	3,225.83	318.77	11.120		
13,500.00	7,754.94	13,833.87	7,754.99	161.50	164.68	-90.00	-2,348.32	-6,131.63	3,544.60	3,220.55	324.05	10.938		
13,600.00	7,754.94	13,933.87	7,754.99	164.14	167.29	-90.00	-2,347.88	-6,231.62	3,544.61	3,215.27	329.34	10.763		
13,700.00	7,754.93	14,033.87	7,754.99	166.78	169.91	-90.00	-2,347.45	-6,331.62	3,544.61	3,209.98	334.63	10.593		
13,800.00	7,754.93	14,133.87	7,754.99	169.42	172.52	-90.00	-2,347.01	-6,431.62	3,544.62	3,204.70	339.92	10.428		
13,900.00	7,754.93	14,233.87	7,754.99	172.06	175.14	-90.00	-2,346.58	-6,531.62	3,544.62	3,199.41	345.22	10.268		
14,000.00	7,754.93	14,333.87	7,754.99	174.71	177.76	-90.00	-2,346.15	-6,631.62	3,544.63	3,194.11	350.51	10.113		

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 5-6-3
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 5-6-3	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	7,754.93	14,433.87	7,754.99	177.35	180.38	-90.00	-2,345.71	-6,731.62	3,544.63	3,188.82	355.81	9.962		
14,200.00	7,754.93	14,533.87	7,754.99	180.00	183.00	-90.00	-2,345.28	-6,831.62	3,544.64	3,183.52	361.12	9.816		
14,300.00	7,754.93	14,633.87	7,754.99	182.65	185.63	-90.00	-2,344.84	-6,931.62	3,544.64	3,178.22	366.42	9.674		
14,400.00	7,754.93	14,733.87	7,754.99	185.30	188.26	-90.00	-2,344.41	-7,031.62	3,544.65	3,172.92	371.73	9.536		
14,500.00	7,754.93	14,833.87	7,754.99	187.95	190.89	-90.00	-2,343.98	-7,131.62	3,544.65	3,167.62	377.04	9.401		
14,600.00	7,754.92	14,933.87	7,754.99	190.60	193.52	-90.00	-2,343.54	-7,231.62	3,544.66	3,162.31	382.35	9.271		
14,700.00	7,754.92	15,033.87	7,754.99	193.25	196.15	-90.00	-2,343.11	-7,331.61	3,544.66	3,157.00	387.66	9.144		
14,800.00	7,754.92	15,133.87	7,754.99	195.91	198.79	-90.00	-2,342.67	-7,431.61	3,544.67	3,151.69	392.98	9.020		
14,900.00	7,754.92	15,233.87	7,754.99	198.56	201.42	-90.00	-2,342.24	-7,531.61	3,544.67	3,146.38	398.29	8.900		
15,000.00	7,754.92	15,333.87	7,754.99	201.22	204.06	-90.00	-2,341.80	-7,631.61	3,544.68	3,141.07	403.61	8.782		
15,100.00	7,754.92	15,433.87	7,754.99	203.87	206.70	-90.00	-2,341.37	-7,731.61	3,544.68	3,135.75	408.93	8.668		
15,200.00	7,754.92	15,533.87	7,754.99	206.53	209.34	-90.00	-2,340.94	-7,831.61	3,544.69	3,130.43	414.25	8.557		
15,300.00	7,754.92	15,633.87	7,754.99	209.19	211.99	-90.00	-2,340.50	-7,931.61	3,544.69	3,125.12	419.58	8.448		
15,400.00	7,754.91	15,733.87	7,754.99	211.85	214.63	-90.00	-2,340.07	-8,031.61	3,544.70	3,119.80	424.90	8.342		
15,500.00	7,754.91	15,833.87	7,754.99	214.51	217.28	-90.00	-2,339.63	-8,131.61	3,544.70	3,114.47	430.23	8.239		
15,600.00	7,754.91	15,933.87	7,754.99	217.17	219.92	-90.00	-2,339.20	-8,231.61	3,544.71	3,109.15	435.56	8.138		
15,700.00	7,754.91	16,033.87	7,754.99	219.83	222.57	-90.00	-2,338.77	-8,331.61	3,544.71	3,103.83	440.89	8.040		
15,800.00	7,754.91	16,133.87	7,754.99	222.49	225.22	-90.00	-2,338.33	-8,431.60	3,544.72	3,098.50	446.22	7.944		
15,900.00	7,754.91	16,233.87	7,754.99	225.16	227.87	-90.00	-2,337.90	-8,531.60	3,544.72	3,093.18	451.55	7.850		
16,000.00	7,754.91	16,333.87	7,754.99	227.82	230.52	-90.00	-2,337.46	-8,631.60	3,544.73	3,087.85	456.88	7.759		
16,100.00	7,754.91	16,433.87	7,754.98	230.48	233.17	-90.00	-2,337.03	-8,731.60	3,544.73	3,082.52	462.22	7.669		
16,200.00	7,754.90	16,533.87	7,754.98	233.15	235.83	-90.00	-2,336.60	-8,831.60	3,544.74	3,077.19	467.55	7.582		
16,300.00	7,754.90	16,633.87	7,754.98	235.81	238.48	-90.00	-2,336.16	-8,931.60	3,544.74	3,071.86	472.89	7.496		
16,400.00	7,754.90	16,733.87	7,754.98	238.48	241.13	-90.00	-2,335.73	-9,031.60	3,544.75	3,066.52	478.22	7.412		
16,500.00	7,754.90	16,833.87	7,754.98	241.14	243.79	-90.00	-2,335.29	-9,131.60	3,544.75	3,061.19	483.56	7.331		
16,600.00	7,754.90	16,933.87	7,754.98	243.81	246.45	-90.00	-2,334.86	-9,231.60	3,544.76	3,055.86	488.90	7.250		
16,700.00	7,754.90	17,033.87	7,754.98	246.48	249.10	-90.00	-2,334.43	-9,331.60	3,544.76	3,050.52	494.24	7.172		
16,800.00	7,754.90	17,133.87	7,754.98	249.15	251.76	-90.00	-2,333.99	-9,431.59	3,544.77	3,045.19	499.58	7.095		
16,900.00	7,754.90	17,233.87	7,754.98	251.81	254.42	-90.00	-2,333.56	-9,531.59	3,544.77	3,039.85	504.93	7.020		
17,000.00	7,754.90	17,333.87	7,754.98	254.48	257.08	-90.00	-2,333.12	-9,631.59	3,544.78	3,034.51	510.27	6.947		
17,100.00	7,754.89	17,433.87	7,754.98	257.15	259.74	-90.00	-2,332.69	-9,731.59	3,544.78	3,029.17	515.61	6.875		
17,200.00	7,754.89	17,533.87	7,754.98	259.82	262.40	-90.00	-2,332.26	-9,831.59	3,544.79	3,023.83	520.96	6.804		
17,300.00	7,754.89	17,633.87	7,754.98	262.49	265.06	-90.00	-2,331.82	-9,931.59	3,544.79	3,018.49	526.30	6.735		
17,400.00	7,754.89	17,733.87	7,754.98	265.16	267.73	-90.00	-2,331.39	-10,031.59	3,544.80	3,013.15	531.65	6.668		
17,500.00	7,754.89	17,833.87	7,754.98	267.83	270.39	-90.00	-2,330.95	-10,131.59	3,544.80	3,007.81	536.99	6.601		
17,600.00	7,754.89	17,933.87	7,754.98	270.50	273.05	-90.00	-2,330.52	-10,231.59	3,544.81	3,002.47	542.34	6.536		
17,700.00	7,754.89	18,033.87	7,754.98	273.17	275.72	-90.00	-2,330.09	-10,331.59	3,544.81	2,997.12	547.69	6.472		
17,800.00	7,754.89	18,133.87	7,754.98	275.85	278.38	-90.00	-2,329.65	-10,431.59	3,544.82	2,991.78	553.04	6.410		
17,877.84	7,754.88	18,210.73	7,755.00	277.93	280.43	-90.00	-2,329.10	-10,508.44	3,544.60	2,987.42	557.18	6.362		
17,879.50	7,755.00	18,210.73	7,755.00	277.97	280.43	-90.00	-2,329.10	-10,508.44	3,544.35	2,987.12	557.23	6.361 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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	500.05	500.03	1.57	1.57	84.07	1.72	16.59	16.68	13.55	3.14	5.319		
524.95	524.95	524.99	524.95	1.66	1.66	80.70	2.69	16.43	16.65	13.34	3.32	5.023 CC		
600.00	600.00	599.87	599.70	1.93	1.93	66.41	6.88	15.75	17.19	13.33	3.85	4.460		
700.00	699.98	699.35	698.81	2.29	2.29	58.49	15.42	14.35	20.14	15.56	4.57	4.403		
800.00	799.84	798.60	797.32	2.65	2.67	45.33	27.32	12.40	24.83	19.54	5.29	4.695		
900.00	899.45	897.62	895.12	3.01	3.06	36.88	42.54	9.91	30.45	24.45	6.00	5.075		
1,000.00	998.70	996.39	992.10	3.38	3.48	31.36	61.04	6.88	36.56	29.85	6.71	5.448		
1,100.00	1,097.47	1,094.94	1,088.15	3.77	3.92	27.63	82.78	3.32	42.93	35.51	7.42	5.784		
1,164.39	1,160.75	1,158.81	1,150.02	4.03	4.22	25.95	98.38	0.77	46.91	39.02	7.89	5.943		
1,200.00	1,195.67	1,194.36	1,184.45	4.18	4.40	25.31	107.14	-0.67	48.84	40.67	8.17	5.981		
1,300.00	1,293.73	1,305.80	1,281.13	4.60	4.95	23.77	131.75	-4.69	54.27	45.29	8.98	6.043		
1,400.00	1,391.80	1,405.96	1,377.81	5.04	5.45	22.51	156.36	-8.72	59.73	49.98	9.75	6.124		
1,500.00	1,489.86	1,506.11	1,474.48	5.48	5.96	21.46	180.96	-12.75	65.22	54.69	10.53	6.194		
1,600.00	1,587.93	1,606.27	1,571.16	5.93	6.48	20.57	205.57	-16.78	70.73	59.42	11.31	6.255		
1,700.00	1,686.00	1,706.43	1,667.84	6.38	7.00	19.82	230.17	-20.81	76.25	64.16	12.09	6.308		
1,800.00	1,784.06	1,806.59	1,764.52	6.84	7.52	19.16	254.78	-24.84	81.78	68.91	12.87	6.355		
1,900.00	1,882.13	1,906.74	1,861.20	7.30	8.05	18.59	279.39	-28.86	87.32	73.67	13.65	6.397		
2,000.00	1,980.19	2,006.90	1,957.88	7.76	8.58	18.08	303.99	-32.89	92.87	78.44	14.43	6.434		
2,100.00	2,078.26	2,107.06	2,054.56	8.22	9.11	17.64	328.60	-36.92	98.43	83.21	15.22	6.468		
2,200.00	2,176.32	2,207.21	2,151.24	8.69	9.64	17.24	353.20	-40.95	103.99	87.98	16.00	6.498		
2,300.00	2,274.39	2,307.37	2,247.92	9.15	10.18	16.88	377.81	-44.98	109.55	92.76	16.79	6.525		
2,400.00	2,372.45	2,407.53	2,344.60	9.62	10.71	16.55	402.42	-49.01	115.12	97.55	17.57	6.550		
2,500.00	2,470.52	2,507.69	2,441.28	10.09	11.25	16.26	427.02	-53.03	120.69	102.33	18.36	6.573		
2,600.00	2,568.59	2,607.84	2,537.96	10.56	11.79	15.99	451.63	-57.06	126.27	107.12	19.15	6.594		
2,700.00	2,666.65	2,692.00	2,634.64	11.03	12.24	15.75	476.23	-61.09	131.85	111.98	19.87	6.635		
2,800.00	2,764.72	2,791.84	2,731.32	11.50	12.77	15.52	500.84	-65.12	137.43	116.77	20.66	6.653		
2,900.00	2,862.78	2,891.69	2,828.00	11.97	13.31	15.31	525.45	-69.15	143.01	121.57	21.44	6.669		
3,000.00	2,960.85	3,008.47	2,924.68	12.45	13.94	15.12	550.05	-73.18	148.59	126.29	22.30	6.663		
3,100.00	3,058.91	3,108.63	3,021.35	12.92	14.48	14.94	574.66	-77.20	154.18	131.09	23.09	6.678		
3,200.00	3,156.98	3,208.79	3,118.03	13.39	15.02	14.78	599.26	-81.23	159.77	135.89	23.88	6.691		
3,300.00	3,255.05	3,291.06	3,214.71	13.87	15.46	14.62	623.87	-85.26	165.36	140.76	24.59	6.724		
3,400.00	3,353.11	3,409.10	3,311.39	14.34	16.10	14.48	648.48	-89.29	170.94	145.49	25.46	6.716		
3,500.00	3,451.18	3,490.74	3,408.07	14.82	16.54	14.34	673.08	-93.32	176.54	150.37	26.17	6.746		
3,600.00	3,549.24	3,609.42	3,504.75	15.29	17.18	14.21	697.69	-97.35	182.13	155.09	27.03	6.737		
3,700.00	3,647.31	3,709.57	3,601.43	15.77	17.72	14.09	722.29	-101.38	187.72	159.90	27.82	6.747		
3,800.00	3,745.37	3,809.73	3,698.11	16.24	18.26	13.98	746.90	-105.40	193.31	164.70	28.61	6.756		
3,900.00	3,843.44	3,890.11	3,794.79	16.72	18.69	13.88	771.50	-109.43	198.91	169.58	29.32	6.783		
4,000.00	3,941.50	3,989.96	3,891.47	17.19	19.23	13.77	796.11	-113.46	204.50	174.39	30.11	6.791		
4,100.00	4,039.57	4,089.80	3,988.15	17.67	19.77	13.68	820.72	-117.49	210.09	179.19	30.90	6.799		
4,200.00	4,137.64	4,189.64	4,084.83	18.15	20.31	13.59	845.32	-121.52	215.69	184.00	31.69	6.806		
4,300.00	4,235.70	4,289.48	4,181.51	18.62	20.86	13.50	869.93	-125.55	221.29	188.81	32.48	6.813		
4,400.00	4,333.77	4,389.33	4,278.19	19.10	21.40	13.42	894.53	-129.57	226.88	193.62	33.27	6.820		
4,500.00	4,431.83	4,489.17	4,374.87	19.58	21.94	13.34	919.14	-133.60	232.48	198.42	34.06	6.826		
4,600.00	4,529.90	4,589.01	4,471.55	20.05	22.48	13.27	943.75	-137.63	238.08	203.23	34.85	6.832		
4,700.00	4,627.96	4,688.86	4,568.22	20.53	23.02	13.20	968.35	-141.66	243.67	208.04	35.63	6.838		
4,800.00	4,726.03	4,788.70	4,664.90	21.01	23.56	13.13	992.96	-145.69	249.27	212.85	36.42	6.844		
4,900.00	4,824.10	4,888.54	4,761.58	21.48	24.10	13.07	1,017.56	-149.72	254.87	217.66	37.21	6.849		

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 5-6-3
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 5-6-3	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	4,922.16	4,988.38	4,858.26	21.96	24.64	13.01	1,042.17	-153.74	260.47	222.47	38.00	6.854		
5,100.00	5,020.23	5,088.23	4,954.94	22.44	25.18	12.95	1,066.78	-157.77	266.07	227.28	38.79	6.859		
5,200.00	5,118.29	5,188.07	5,051.62	22.92	25.72	12.89	1,091.38	-161.80	271.67	232.08	39.58	6.863		
5,300.00	5,216.36	5,287.91	5,148.30	23.39	26.26	12.84	1,115.99	-165.83	277.27	236.89	40.37	6.868		
5,400.00	5,314.42	5,387.75	5,244.98	23.87	26.80	12.79	1,140.59	-169.86	282.87	241.70	41.16	6.872		
5,500.00	5,412.49	5,487.60	5,341.66	24.35	27.35	12.74	1,165.20	-173.89	288.46	246.51	41.95	6.876		
5,600.00	5,510.55	5,587.44	5,438.34	24.83	27.89	12.69	1,189.81	-177.91	294.07	251.32	42.74	6.880		
5,700.00	5,608.62	5,687.28	5,535.02	25.30	28.43	12.64	1,214.41	-181.94	299.67	256.14	43.53	6.884		
5,800.00	5,706.69	5,787.13	5,631.70	25.78	28.97	12.60	1,239.02	-185.97	305.27	260.95	44.32	6.888		
5,900.00	5,804.75	5,886.97	5,728.38	26.26	29.51	12.55	1,263.62	-190.00	310.87	265.76	45.11	6.891		
6,000.00	5,902.82	5,986.81	5,825.06	26.74	30.05	12.51	1,288.23	-194.03	316.47	270.57	45.90	6.895		
6,100.00	6,000.88	6,086.65	5,921.74	27.22	30.59	12.47	1,312.84	-198.06	322.07	275.38	46.69	6.898		
6,200.00	6,098.95	6,186.50	6,018.41	27.69	31.14	12.43	1,337.44	-202.08	327.67	280.19	47.48	6.901		
6,300.00	6,197.01	6,286.34	6,115.09	28.17	31.68	12.39	1,362.05	-206.11	333.27	285.00	48.27	6.904		
6,400.00	6,295.08	6,386.18	6,211.77	28.65	32.22	12.36	1,386.65	-210.14	338.87	289.81	49.06	6.907		
6,500.00	6,393.15	6,486.03	6,308.45	29.13	32.76	12.32	1,411.26	-214.17	344.47	294.62	49.85	6.910		
6,600.00	6,491.21	6,585.87	6,405.13	29.61	33.30	12.29	1,435.87	-218.20	350.07	299.44	50.64	6.913		
6,699.99	6,589.26	6,685.70	6,501.80	30.08	33.84	12.26	1,460.47	-222.23	355.68	304.25	51.43	6.916		
6,702.02	6,591.25	6,687.72	6,503.76	30.09	33.86	12.26	1,460.97	-222.31	355.79	304.34	51.45	6.916		
6,800.00	6,687.65	6,789.53	6,602.39	30.55	34.41	12.20	1,485.88	-226.39	362.75	310.50	52.25	6.943		
6,900.00	6,786.59	6,903.63	6,713.70	30.97	34.98	12.10	1,510.56	-230.43	370.31	317.22	53.09	6.975		
7,000.00	6,885.98	7,018.10	6,826.29	31.36	35.51	11.99	1,530.91	-233.76	377.36	323.51	53.85	7.008		
7,100.00	6,985.69	7,132.92	6,939.97	31.72	35.98	11.88	1,546.85	-236.37	383.87	329.36	54.51	7.042		
7,200.00	7,085.60	7,248.08	7,054.53	32.03	36.39	11.76	1,558.31	-238.24	389.85	334.77	55.08	7.078		
7,266.41	7,152.00	7,324.72	7,130.99	32.23	36.64	0.10	1,563.41	-239.08	393.52	338.12	55.40	7.103		
7,296.41	7,182.00	7,359.39	7,165.63	32.31	36.75	0.06	1,565.05	-239.35	394.94	339.41	55.54	7.112		
7,300.00	7,185.59	7,363.55	7,169.78	32.32	36.76	89.79	1,565.22	-239.38	395.09	339.54	55.55	7.112		
7,350.00	7,235.52	7,421.34	7,227.54	32.46	36.92	90.02	1,566.96	-239.66	396.59	340.80	55.79	7.108		
7,400.00	7,285.03	7,478.68	7,284.88	32.61	37.07	91.08	1,567.55	-239.76	397.17	341.07	56.10	7.080		
7,450.00	7,333.76	7,528.16	7,334.35	32.76	37.19	92.59	1,567.55	-240.05	397.52	340.90	56.62	7.021		
7,500.00	7,381.34	7,578.94	7,384.97	32.92	37.32	94.22	1,567.57	-243.92	398.24	341.08	57.15	6.968		
7,550.00	7,427.40	7,630.84	7,436.14	33.09	37.46	95.83	1,567.60	-252.49	399.28	341.59	57.68	6.922		
7,600.00	7,471.59	7,683.93	7,487.46	33.26	37.61	97.41	1,567.66	-266.01	400.62	342.42	58.19	6.884		
7,650.00	7,513.58	7,738.25	7,538.45	33.44	37.77	98.95	1,567.74	-284.70	402.22	343.55	58.67	6.855		
7,700.00	7,553.04	7,793.85	7,588.56	33.62	37.94	100.42	1,567.85	-308.73	404.04	344.94	59.10	6.836		
7,750.00	7,589.68	7,850.75	7,637.18	33.82	38.12	101.82	1,567.97	-338.23	406.02	346.56	59.47	6.828		
7,800.00	7,623.22	7,908.95	7,683.64	34.03	38.31	103.12	1,568.12	-373.24	408.09	348.33	59.76	6.829		
7,850.00	7,653.40	7,968.42	7,727.20	34.25	38.51	104.33	1,568.30	-413.70	410.18	350.19	59.98	6.838		
7,900.00	7,680.00	8,029.13	7,767.09	34.50	38.74	105.41	1,568.50	-459.42	412.20	352.05	60.14	6.854		
7,950.00	7,702.80	8,090.98	7,802.53	34.77	38.99	106.35	1,568.71	-510.07	414.08	353.81	60.26	6.871		
8,000.00	7,721.65	8,153.86	7,832.76	35.08	39.27	107.15	1,568.95	-565.18	415.74	355.35	60.39	6.885		
8,050.00	7,736.38	8,217.63	7,857.05	35.42	39.60	107.79	1,569.21	-624.10	417.12	356.56	60.56	6.887		
8,100.00	7,746.90	8,282.09	7,874.81	35.80	39.97	108.25	1,569.47	-686.03	418.16	357.32	60.84	6.873		
8,150.00	7,753.12	8,347.04	7,885.56	36.23	40.40	108.54	1,569.75	-750.05	418.81	357.56	61.25	6.837		
8,196.48	7,755.00	8,407.66	7,889.00	36.66	40.85	108.65	1,570.01	-810.54	419.05	357.24	61.81	6.780		
8,200.00	7,755.00	8,411.70	7,889.00	36.70	40.88	108.65	1,570.03	-814.58	419.05	357.17	61.88	6.772		
8,300.00	7,755.00	8,511.70	7,889.00	37.76	41.75	108.65	1,570.46	-914.58	419.04	354.65	64.39	6.508		
8,400.00	7,755.00	8,611.70	7,889.00	39.01	42.78	108.65	1,570.89	-1,014.58	419.04	351.83	67.20	6.236		
8,500.00	7,755.00	8,711.70	7,889.00	40.41	43.96	108.65	1,571.32	-1,114.58	419.03	348.76	70.27	5.963		
8,600.00	7,755.00	8,811.70	7,889.00	41.96	45.29	108.65	1,571.75	-1,214.58	419.02	345.45	73.57	5.696		
8,700.00	7,754.99	8,911.70	7,888.99	43.64	46.76	108.65	1,572.18	-1,314.58	419.01	341.95	77.06	5.437		
8,800.00	7,754.99	9,011.70	7,888.99	45.42	48.36	108.65	1,572.61	-1,414.57	419.01	338.28	80.73	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 5-6-3
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 5-6-3	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	7,754.99	9,111.70	7,888.99	47.30	50.07	108.65	1,573.05	-1,514.57	419.00	334.45	84.55	4.956		
9,000.00	7,754.99	9,211.70	7,888.99	49.27	51.88	108.65	1,573.48	-1,614.57	418.99	330.49	88.50	4.734		
9,100.00	7,754.99	9,311.70	7,888.99	51.30	53.77	108.65	1,573.91	-1,714.57	418.99	326.42	92.57	4.526		
9,200.00	7,754.99	9,411.70	7,888.99	53.40	55.75	108.65	1,574.34	-1,814.57	418.98	322.25	96.73	4.331		
9,300.00	7,754.99	9,511.69	7,888.99	55.55	57.78	108.65	1,574.77	-1,914.57	418.97	317.99	100.99	4.149		
9,400.00	7,754.99	9,611.69	7,888.99	57.75	59.88	108.65	1,575.21	-2,014.57	418.97	313.65	105.32	3.978		
9,500.00	7,754.98	9,711.69	7,888.99	59.99	62.03	108.65	1,575.64	-2,114.56	418.96	309.25	109.71	3.819		
9,600.00	7,754.98	9,811.69	7,888.98	62.27	64.22	108.65	1,576.07	-2,214.56	418.95	304.78	114.17	3.670		
9,700.00	7,754.98	9,911.69	7,888.98	64.59	66.46	108.65	1,576.50	-2,314.56	418.95	300.26	118.68	3.530		
9,800.00	7,754.98	10,011.69	7,888.98	66.93	68.73	108.65	1,576.94	-2,414.56	418.94	295.70	123.24	3.399		
9,900.00	7,754.98	10,111.69	7,888.98	69.30	71.03	108.65	1,577.37	-2,514.56	418.93	291.09	127.84	3.277		
10,000.00	7,754.98	10,211.69	7,888.98	71.69	73.36	108.65	1,577.80	-2,614.56	418.93	286.45	132.48	3.162		
10,100.00	7,754.98	10,311.69	7,888.98	74.10	75.72	108.66	1,578.23	-2,714.56	418.92	281.77	137.15	3.054		
10,200.00	7,754.98	10,411.69	7,888.98	76.53	78.09	108.66	1,578.67	-2,814.55	418.92	277.06	141.86	2.953		
10,300.00	7,754.98	10,511.69	7,888.98	78.98	80.49	108.66	1,579.10	-2,914.55	418.91	272.32	146.59	2.858		
10,400.00	7,754.97	10,611.69	7,888.98	81.45	82.91	108.66	1,579.53	-3,014.55	418.91	267.56	151.34	2.768		
10,500.00	7,754.97	10,711.69	7,888.98	83.93	85.35	108.66	1,579.97	-3,114.55	418.90	262.78	156.12	2.683		
10,600.00	7,754.97	10,811.69	7,888.98	86.42	87.80	108.66	1,580.40	-3,214.55	418.90	257.97	160.92	2.603		
10,700.00	7,754.97	10,911.69	7,888.98	88.92	90.27	108.66	1,580.83	-3,314.55	418.89	253.15	165.74	2.527		
10,800.00	7,754.97	11,011.69	7,888.98	91.44	92.75	108.66	1,581.27	-3,414.55	418.89	248.31	170.58	2.456		
10,900.00	7,754.97	11,111.69	7,888.97	93.96	95.24	108.66	1,581.70	-3,514.54	418.88	243.45	175.43	2.388		
11,000.00	7,754.97	11,211.69	7,888.97	96.49	97.74	108.66	1,582.14	-3,614.54	418.88	238.58	180.30	2.323		
11,100.00	7,754.97	11,311.69	7,888.97	99.04	100.25	108.66	1,582.57	-3,714.54	418.87	233.70	185.18	2.262		
11,200.00	7,754.96	11,411.69	7,888.97	101.59	102.77	108.66	1,583.01	-3,814.54	418.87	228.80	190.07	2.204		
11,300.00	7,754.96	11,511.68	7,888.97	104.14	105.30	108.66	1,583.44	-3,914.54	418.87	223.89	194.98	2.148		
11,400.00	7,754.96	11,611.68	7,888.97	106.71	107.84	108.66	1,583.87	-4,014.54	418.86	218.97	199.89	2.095		
11,500.00	7,754.96	11,711.68	7,888.97	109.28	110.39	108.66	1,584.31	-4,114.53	418.86	214.04	204.82	2.045		
11,600.00	7,754.96	11,811.68	7,888.97	111.85	112.94	108.66	1,584.74	-4,214.53	418.85	209.10	209.75	1.997		
11,700.00	7,754.96	11,911.68	7,888.97	114.43	115.50	108.66	1,585.18	-4,314.53	418.85	204.16	214.69	1.951		
11,800.00	7,754.96	12,011.68	7,888.97	117.02	118.06	108.66	1,585.61	-4,414.53	418.85	199.20	219.64	1.907		
11,900.00	7,754.96	12,111.68	7,888.97	119.61	120.63	108.66	1,586.05	-4,514.53	418.84	194.24	224.60	1.865		
12,000.00	7,754.95	12,211.68	7,888.97	122.20	123.21	108.66	1,586.48	-4,614.53	418.84	189.27	229.57	1.824		
12,100.00	7,754.95	12,311.68	7,888.97	124.80	125.79	108.66	1,586.92	-4,714.53	418.84	184.30	234.54	1.786		
12,200.00	7,754.95	12,411.68	7,888.97	127.40	128.38	108.66	1,587.36	-4,814.52	418.83	179.32	239.52	1.749		
12,300.00	7,754.95	12,511.68	7,888.97	130.01	130.97	108.66	1,587.79	-4,914.52	418.83	174.33	244.50	1.713		
12,400.00	7,754.95	12,611.68	7,888.97	132.62	133.56	108.66	1,588.23	-5,014.52	418.83	169.34	249.49	1.679		
12,500.00	7,754.95	12,711.68	7,888.97	135.23	136.16	108.66	1,588.66	-5,114.52	418.83	164.34	254.48	1.646		
12,600.00	7,754.95	12,811.68	7,888.97	137.85	138.76	108.66	1,589.10	-5,214.52	418.82	159.34	259.48	1.614		
12,700.00	7,754.95	12,911.68	7,888.97	140.47	141.36	108.66	1,589.53	-5,314.52	418.82	154.33	264.49	1.584		
12,800.00	7,754.95	13,011.68	7,888.97	143.09	143.97	108.66	1,589.97	-5,414.52	418.82	149.32	269.49	1.554		
12,900.00	7,754.94	13,111.68	7,888.97	145.71	146.58	108.66	1,590.41	-5,514.51	418.82	144.31	274.51	1.526		
13,000.00	7,754.94	13,211.68	7,888.97	148.34	149.19	108.66	1,590.84	-5,614.51	418.81	139.29	279.52	1.498 Level 3		
13,100.00	7,754.94	13,311.68	7,888.97	150.97	151.81	108.66	1,591.28	-5,714.51	418.81	134.27	284.54	1.472 Level 3		
13,200.00	7,754.94	13,411.68	7,888.97	153.60	154.43	108.66	1,591.72	-5,814.51	418.81	129.25	289.56	1.446 Level 3		
13,300.00	7,754.94	13,511.67	7,888.97	156.23	157.05	108.66	1,592.15	-5,914.51	418.81	124.22	294.59	1.422 Level 3		
13,400.00	7,754.94	13,611.67	7,888.97	158.86	159.67	108.66	1,592.59	-6,014.51	418.81	119.19	299.62	1.398 Level 3		
13,500.00	7,754.94	13,711.67	7,888.97	161.50	162.30	108.66	1,593.03	-6,114.51	418.81	114.15	304.65	1.375 Level 3		
13,600.00	7,754.94	13,811.67	7,888.97	164.14	164.93	108.67	1,593.47	-6,214.50	418.80	109.12	309.68	1.352 Level 3		
13,700.00	7,754.93	13,911.67	7,888.97	166.78	167.56	108.67	1,593.90	-6,314.50	418.80	104.08	314.72	1.331 Level 3		
13,800.00	7,754.93	14,011.67	7,888.97	169.42	170.19	108.67	1,594.34	-6,414.50	418.80	99.04	319.76	1.310 Level 3		
13,900.00	7,754.93	14,111.67	7,888.97	172.06	172.82	108.67	1,594.78	-6,514.50	418.80	94.00	324.80	1.289 Level 3		
14,000.00	7,754.93	14,211.67	7,888.97	174.71	175.46	108.67	1,595.22	-6,614.50	418.80	88.95	329.85	1.270 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 5-6-3
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 5-6-3	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	7,754.93	14,311.67	7,888.97	177.35	178.10	108.67	1,595.65	-6,714.50	418.80	83.90	334.90	1.251	Level 3
14,200.00	7,754.93	14,411.67	7,888.97	180.00	180.73	108.67	1,596.09	-6,814.50	418.80	78.85	339.94	1.232	Level 2
14,300.00	7,754.93	14,511.67	7,888.97	182.65	183.37	108.67	1,596.53	-6,914.49	418.80	73.80	345.00	1.214	Level 2
14,400.00	7,754.93	14,611.67	7,888.97	185.30	186.02	108.67	1,596.97	-7,014.49	418.80	68.75	350.05	1.196	Level 2
14,500.00	7,754.93	14,711.67	7,888.97	187.95	188.66	108.67	1,597.41	-7,114.49	418.80	63.69	355.10	1.179	Level 2
14,600.00	7,754.92	14,811.67	7,888.97	190.60	191.30	108.67	1,597.84	-7,214.49	418.80	58.64	360.16	1.163	Level 2
14,678.34	7,754.92	14,910.00	7,888.97	192.68	193.90	108.67	1,598.19	-7,292.82	418.80	54.17	364.63	1.149	Level 2
14,700.00	7,754.92	14,911.67	7,888.97	193.25	193.95	108.67	1,598.28	-7,314.49	418.80	53.58	365.22	1.147	Level 2
14,800.00	7,754.92	15,011.67	7,888.97	195.91	196.60	108.67	1,598.72	-7,414.49	418.80	48.52	370.28	1.131	Level 2
14,900.00	7,754.92	15,111.67	7,888.97	198.56	199.24	108.67	1,599.16	-7,514.49	418.80	43.46	375.34	1.116	Level 2
15,000.00	7,754.92	15,211.67	7,888.97	201.22	201.89	108.67	1,599.60	-7,614.48	418.80	38.40	380.40	1.101	Level 2
15,100.00	7,754.92	15,311.67	7,888.97	203.87	204.54	108.67	1,600.04	-7,714.48	418.80	33.33	385.46	1.086	Level 2
15,200.00	7,754.92	15,411.66	7,888.97	206.53	207.19	108.67	1,600.48	-7,814.48	418.80	28.27	390.53	1.072	Level 2
15,300.00	7,754.92	15,511.66	7,888.98	209.19	209.85	108.67	1,600.92	-7,914.48	418.80	23.20	395.60	1.059	Level 2
15,400.00	7,754.91	15,611.66	7,888.98	211.85	212.50	108.67	1,601.36	-8,014.48	418.80	18.14	400.67	1.045	Level 2
15,500.00	7,754.91	15,711.66	7,888.98	214.51	215.15	108.67	1,601.80	-8,114.48	418.80	13.07	405.73	1.032	Level 2
15,600.00	7,754.91	15,811.66	7,888.98	217.17	217.81	108.67	1,602.23	-8,214.47	418.80	8.00	410.81	1.019	Level 2
15,700.00	7,754.91	15,911.66	7,888.98	219.83	220.46	108.67	1,602.67	-8,314.47	418.80	2.93	415.88	1.007	Level 2
15,800.00	7,754.91	16,011.66	7,888.98	222.49	223.12	108.67	1,603.11	-8,414.47	418.80	-2.14	420.95	0.995	Level 1
15,900.00	7,754.91	16,111.66	7,888.98	225.16	225.78	108.67	1,603.55	-8,514.47	418.81	-7.22	426.02	0.983	Level 1
16,000.00	7,754.91	16,211.66	7,888.98	227.82	228.44	108.67	1,603.99	-8,614.47	418.81	-12.29	431.10	0.971	Level 1
16,100.00	7,754.91	16,311.66	7,888.98	230.48	231.09	108.67	1,604.43	-8,714.47	418.81	-17.36	436.17	0.960	Level 1
16,200.00	7,754.90	16,411.66	7,888.98	233.15	233.75	108.67	1,604.87	-8,814.47	418.81	-22.44	441.25	0.949	Level 1
16,300.00	7,754.90	16,511.66	7,888.98	235.81	236.41	108.67	1,605.32	-8,914.46	418.81	-27.51	446.33	0.938	Level 1
16,400.00	7,754.90	16,611.66	7,888.98	238.48	239.08	108.67	1,605.76	-9,014.46	418.82	-32.59	451.41	0.928	Level 1
16,500.00	7,754.90	16,711.66	7,888.98	241.14	241.74	108.67	1,606.20	-9,114.46	418.82	-37.67	456.49	0.917	Level 1
16,600.00	7,754.90	16,811.66	7,888.99	243.81	244.40	108.67	1,606.64	-9,214.46	418.82	-42.75	461.57	0.907	Level 1
16,700.00	7,754.90	16,911.66	7,888.99	246.48	247.06	108.67	1,607.08	-9,314.46	418.82	-47.82	466.65	0.898	Level 1
16,800.00	7,754.90	17,011.66	7,888.99	249.15	249.73	108.67	1,607.52	-9,414.46	418.82	-52.90	471.73	0.888	Level 1
16,900.00	7,754.90	17,111.66	7,888.99	251.81	252.39	108.67	1,607.96	-9,514.46	418.83	-57.98	476.81	0.878	Level 1
17,000.00	7,754.90	17,211.66	7,888.99	254.48	255.05	108.67	1,608.40	-9,614.45	418.83	-63.06	481.89	0.869	Level 1
17,100.00	7,754.89	17,311.66	7,888.99	257.15	257.72	108.67	1,608.84	-9,714.45	418.83	-68.15	486.98	0.860	Level 1
17,200.00	7,754.89	17,411.65	7,888.99	259.82	260.38	108.67	1,609.28	-9,814.45	418.84	-73.23	492.06	0.851	Level 1
17,300.00	7,754.89	17,511.65	7,888.99	262.49	263.05	108.67	1,609.73	-9,914.45	418.84	-78.31	497.15	0.842	Level 1
17,400.00	7,754.89	17,611.65	7,888.99	265.16	265.72	108.67	1,610.17	-10,014.45	418.84	-83.39	502.23	0.834	Level 1
17,500.00	7,754.89	17,711.65	7,889.00	267.83	268.38	108.67	1,610.61	-10,114.45	418.85	-88.47	507.32	0.826	Level 1
17,600.00	7,754.89	17,811.65	7,889.00	270.50	271.05	108.67	1,611.05	-10,214.45	418.85	-93.56	512.41	0.817	Level 1
17,700.00	7,754.89	17,911.65	7,889.00	273.17	273.72	108.67	1,611.49	-10,314.44	418.85	-98.64	517.50	0.809	Level 1
17,800.00	7,754.89	18,011.65	7,889.00	275.85	276.39	108.67	1,611.94	-10,414.44	418.86	-103.73	522.58	0.802	Level 1
17,879.50	7,755.00	18,091.15	7,889.00	277.97	278.51	108.65	1,612.29	-10,493.94	419.06	-107.64	526.71	0.796	Level 1, ES, SF

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-19.69	19.69					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-19.69	19.69	19.42	0.27	73.227		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-19.69	19.69	18.70	0.99	19.971		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-19.69	19.69	17.98	1.70	11.562		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-19.69	19.69	17.27	2.42	8.136		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-19.69	19.69	16.55	3.14	6.277		
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-19.69	19.69	15.83	3.85	5.109		
700.00	699.98	700.02	699.98	2.29	2.29	-83.48	0.00	-19.69	19.41	14.84	4.57	4.248		
750.47	750.41	750.41	750.41	2.47	2.47	-90.00	0.00	-19.69	19.29	14.36	4.93	3.911 CC		
800.00	799.84	799.84	799.84	2.65	2.64	-98.90	0.00	-19.69	19.52	14.24	5.29	3.693		
900.00	899.45	899.77	899.75	3.01	3.00	-117.22	1.67	-20.16	21.85	15.84	6.01	3.636		
1,000.00	998.70	999.94	999.78	3.38	3.36	-130.58	6.71	-21.59	26.10	19.37	6.73	3.877		
1,100.00	1,097.47	1,100.36	1,099.81	3.77	3.73	-139.48	15.14	-23.97	31.53	24.07	7.46	4.226		
1,164.39	1,160.75	1,165.15	1,164.16	4.03	3.96	-143.52	22.36	-26.02	35.40	27.47	7.93	4.464		
1,200.00	1,195.67	1,200.76	1,199.47	4.18	4.09	-145.28	26.80	-27.28	37.55	29.35	8.19	4.583		
1,300.00	1,293.73	1,300.53	1,298.39	4.60	4.47	-149.24	39.28	-30.81	43.70	34.77	8.93	4.891		
1,400.00	1,391.80	1,400.30	1,397.32	5.04	4.85	-152.22	51.76	-34.35	50.01	40.33	9.68	5.167		
1,500.00	1,489.86	1,500.07	1,496.24	5.48	5.24	-154.52	64.25	-37.88	56.43	46.00	10.43	5.413		
1,600.00	1,587.93	1,600.16	1,595.17	5.93	5.63	-156.36	76.73	-41.42	62.92	51.74	11.17	5.631		
1,700.00	1,686.00	1,699.61	1,694.09	6.38	6.03	-157.84	89.21	-44.96	69.46	57.54	11.92	5.827		
1,800.00	1,784.06	1,800.62	1,793.01	6.84	6.43	-159.08	101.69	-48.49	76.04	63.36	12.67	5.999		
1,900.00	1,882.13	1,900.84	1,891.94	7.30	6.83	-160.11	114.17	-52.03	82.64	69.22	13.43	6.156		
2,000.00	1,980.19	2,001.07	1,990.86	7.76	7.23	-160.99	126.65	-55.56	89.28	75.10	14.18	6.297		
2,100.00	2,078.26	2,101.30	2,089.79	8.22	7.64	-161.75	139.13	-59.10	95.93	80.99	14.93	6.424		
2,200.00	2,176.32	2,201.53	2,188.71	8.69	8.04	-162.41	151.61	-62.63	102.59	86.90	15.68	6.541		
2,300.00	2,274.39	2,301.76	2,287.64	9.15	8.45	-162.99	164.09	-66.17	109.26	92.83	16.44	6.647		
2,400.00	2,372.45	2,401.99	2,386.56	9.62	8.85	-163.51	176.57	-69.70	115.95	98.76	17.19	6.744		
2,500.00	2,470.52	2,502.22	2,485.49	10.09	9.26	-163.96	189.05	-73.24	122.64	104.70	17.95	6.833		
2,600.00	2,568.59	2,602.45	2,584.41	10.56	9.67	-164.37	201.54	-76.77	129.35	110.64	18.70	6.915		
2,700.00	2,666.65	2,702.67	2,683.33	11.03	10.08	-164.74	214.02	-80.31	136.05	116.59	19.46	6.992		
2,800.00	2,764.72	2,802.90	2,782.26	11.50	10.49	-165.08	226.50	-83.84	142.76	122.55	20.22	7.062		
2,900.00	2,862.78	2,903.13	2,881.18	11.97	10.90	-165.38	238.98	-87.38	149.48	128.51	20.97	7.128		
3,000.00	2,960.85	3,003.36	2,980.11	12.45	11.31	-165.66	251.46	-90.91	156.20	134.47	21.73	7.189		
3,100.00	3,058.91	3,103.59	3,079.03	12.92	11.72	-165.92	263.94	-94.45	162.92	140.44	22.48	7.246		
3,200.00	3,156.98	3,203.82	3,177.96	13.39	12.13	-166.15	276.42	-97.98	169.65	146.41	23.24	7.299		
3,300.00	3,255.05	3,304.05	3,276.88	13.87	12.54	-166.37	288.90	-101.52	176.38	152.38	24.00	7.350		
3,400.00	3,353.11	3,395.72	3,375.80	14.34	12.92	-166.57	301.38	-105.05	183.11	158.39	24.72	7.406		
3,500.00	3,451.18	3,504.51	3,474.73	14.82	13.37	-166.76	313.86	-108.59	189.85	164.33	25.51	7.441		
3,600.00	3,549.24	3,604.73	3,573.65	15.29	13.78	-166.93	326.34	-112.12	196.58	170.31	26.27	7.483		
3,700.00	3,647.31	3,704.96	3,672.58	15.77	14.19	-167.09	338.83	-115.66	203.32	176.29	27.03	7.522		
3,800.00	3,745.37	3,805.19	3,771.50	16.24	14.60	-167.25	351.31	-119.19	210.06	182.27	27.79	7.560		
3,900.00	3,843.44	3,894.58	3,870.43	16.72	14.97	-167.39	363.79	-122.73	216.80	188.29	28.50	7.606		
4,000.00	3,941.50	4,005.65	3,969.35	17.19	15.43	-167.52	376.27	-126.27	223.54	194.24	29.30	7.629		
4,100.00	4,039.57	4,105.88	4,068.27	17.67	15.84	-167.65	388.75	-129.80	230.28	200.22	30.06	7.661		
4,200.00	4,137.64	4,206.11	4,167.20	18.15	16.26	-167.77	401.23	-133.34	237.02	206.21	30.82	7.691		
4,300.00	4,235.70	4,293.66	4,266.12	18.62	16.62	-167.88	413.71	-136.87	243.77	212.24	31.53	7.732		
4,400.00	4,333.77	4,406.56	4,365.05	19.10	17.08	-167.99	426.19	-140.41	250.51	218.18	32.33	7.748		
4,500.00	4,431.83	4,506.79	4,463.97	19.58	17.50	-168.09	438.67	-143.94	257.26	224.17	33.09	7.774		
4,600.00	4,529.90	4,607.02	4,562.90	20.05	17.91	-168.18	451.15	-147.48	264.01	230.16	33.85	7.799		
4,700.00	4,627.96	4,707.25	4,661.82	20.53	18.32	-168.28	463.63	-151.01	270.76	236.15	34.61	7.823		
4,800.00	4,726.03	4,807.48	4,760.74	21.01	18.74	-168.36	476.12	-154.55	277.50	242.14	35.37	7.846		
4,900.00	4,824.10	4,892.29	4,859.67	21.48	19.09	-168.44	488.60	-158.08	284.25	248.18	36.07	7.881		

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 5-6-3
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 5-6-3	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	4,922.16	5,007.94	4,958.59	21.96	19.57	-168.52	501.08	-161.62	291.00	254.12	36.89	7.889		
5,100.00	5,020.23	5,108.17	5,057.52	22.44	19.98	-168.60	513.56	-165.15	297.75	260.11	37.64	7.910		
5,200.00	5,118.29	5,208.40	5,156.44	22.92	20.39	-168.67	526.04	-168.69	304.50	266.10	38.40	7.929		
5,300.00	5,216.36	5,308.62	5,255.37	23.39	20.81	-168.74	538.52	-172.22	311.25	272.09	39.16	7.948		
5,400.00	5,314.42	5,408.85	5,354.29	23.87	21.22	-168.80	551.00	-175.76	318.01	278.08	39.92	7.966		
5,500.00	5,412.49	5,509.08	5,453.21	24.35	21.64	-168.87	563.48	-179.29	324.76	284.08	40.68	7.983		
5,600.00	5,510.55	5,609.31	5,552.14	24.83	22.05	-168.93	575.96	-182.83	331.51	290.07	41.44	8.000		
5,700.00	5,608.62	5,709.54	5,651.06	25.30	22.46	-168.99	588.44	-186.36	338.26	296.06	42.20	8.016		
5,800.00	5,706.69	5,809.77	5,749.99	25.78	22.88	-169.04	600.92	-189.90	345.01	302.06	42.96	8.032		
5,900.00	5,804.75	5,910.00	5,848.91	26.26	23.29	-169.09	613.41	-193.43	351.77	308.05	43.72	8.047		
6,000.00	5,902.82	5,989.77	5,947.84	26.74	23.62	-169.15	625.89	-196.97	358.52	314.12	44.40	8.075		
6,100.00	6,000.88	6,089.55	6,046.76	27.22	24.04	-169.20	638.37	-200.50	365.27	320.12	45.16	8.089		
6,200.00	6,098.95	6,189.32	6,145.68	27.69	24.45	-169.24	650.85	-204.04	372.03	326.12	45.91	8.103		
6,300.00	6,197.01	6,289.09	6,244.61	28.17	24.86	-169.29	663.33	-207.58	378.78	332.11	46.67	8.116		
6,400.00	6,295.08	6,388.86	6,343.53	28.65	25.27	-169.33	675.81	-211.11	385.54	338.11	47.43	8.129		
6,500.00	6,393.15	6,488.63	6,442.46	29.13	25.69	-169.38	688.29	-214.65	392.29	344.11	48.19	8.141		
6,600.00	6,491.21	6,588.40	6,541.38	29.61	26.10	-169.42	700.77	-218.18	399.05	350.10	48.94	8.153		
6,699.99	6,589.26	6,688.16	6,640.29	30.08	26.51	-169.46	713.25	-221.72	405.80	356.10	49.70	8.165		
6,702.02	6,591.25	6,709.82	6,642.30	30.09	26.60	-169.46	713.50	-221.79	405.94	356.15	49.79	8.153		
6,800.00	6,687.65	6,788.04	6,739.32	30.55	26.93	-169.47	725.74	-225.25	410.91	360.45	50.46	8.144		
6,900.00	6,786.59	6,888.02	6,838.45	30.97	27.34	-169.39	738.25	-228.80	412.59	361.38	51.21	8.057		
7,000.00	6,885.98	6,987.99	6,937.58	31.36	27.75	-169.20	750.76	-232.34	410.85	358.89	51.96	7.907		
7,100.00	6,985.69	7,078.60	7,027.52	31.72	28.12	-168.96	761.33	-235.34	406.55	353.91	52.64	7.723		
7,200.00	7,085.60	7,166.51	7,115.05	32.03	28.46	-168.74	769.06	-237.52	401.72	348.46	53.26	7.543		
7,266.41	7,152.00	7,224.95	7,173.37	32.23	28.67	-179.83	772.77	-238.57	398.26	344.62	53.64	7.425		
7,296.41	7,182.00	7,251.38	7,199.77	32.31	28.76	-179.88	774.07	-238.94	396.78	342.98	53.80	7.375		
7,300.00	7,185.59	7,254.55	7,202.93	32.32	28.78	-90.38	774.21	-238.98	396.62	342.80	53.82	7.369		
7,350.00	7,235.52	7,298.60	7,246.95	32.46	28.93	-90.82	775.81	-239.43	394.83	340.77	54.06	7.304		
7,400.00	7,285.03	7,342.33	7,290.67	32.61	29.07	-91.74	776.75	-239.70	393.89	339.65	54.25	7.261		
7,420.26	7,304.89	7,359.86	7,308.20	32.67	29.13	-92.25	776.95	-239.76	393.80	339.49	54.32	7.250		
7,450.00	7,333.76	7,385.43	7,333.76	32.76	29.21	-93.11	777.05	-239.79	394.02	339.62	54.40	7.243		
7,500.00	7,381.34	7,434.28	7,382.61	32.92	29.37	-95.13	777.05	-240.12	395.15	340.49	54.66	7.229		
7,550.00	7,427.40	7,485.79	7,433.95	33.09	29.54	-97.28	777.07	-244.20	396.94	341.93	55.01	7.216		
7,600.00	7,471.59	7,538.96	7,486.32	33.26	29.72	-99.40	777.11	-253.21	399.31	343.89	55.42	7.205		
7,650.00	7,513.58	7,593.89	7,539.31	33.44	29.91	-101.47	777.17	-267.59	402.19	346.32	55.87	7.199		
7,700.00	7,553.04	7,650.70	7,592.42	33.62	30.11	-103.46	777.26	-287.72	405.51	349.17	56.33	7.198		
7,750.00	7,589.68	7,709.51	7,645.01	33.82	30.34	-105.37	777.37	-313.99	409.14	352.35	56.79	7.204		
7,800.00	7,623.22	7,770.39	7,696.31	34.03	30.58	-107.16	777.52	-346.70	412.98	355.75	57.23	7.216		
7,850.00	7,653.40	7,833.36	7,745.42	34.25	30.84	-108.82	777.69	-386.07	416.86	359.21	57.65	7.231		
7,900.00	7,680.00	7,898.43	7,791.31	34.50	31.13	-110.32	777.89	-432.15	420.64	362.56	58.08	7.242		
7,950.00	7,702.80	7,965.49	7,832.82	34.77	31.48	-111.63	778.12	-484.77	424.16	365.57	58.59	7.240		
8,000.00	7,721.65	8,034.40	7,868.78	35.08	31.89	-112.74	778.38	-543.51	427.26	368.04	59.22	7.215		
8,050.00	7,736.38	8,104.91	7,898.01	35.42	32.38	-113.62	778.66	-607.62	429.81	369.75	60.06	7.156		
8,100.00	7,746.90	8,176.69	7,919.45	35.80	32.99	-114.25	778.96	-676.08	431.67	370.47	61.20	7.054		
8,150.00	7,753.12	8,249.34	7,932.27	36.23	33.69	-114.61	779.27	-747.53	432.77	370.11	62.66	6.907		
8,196.48	7,755.00	8,317.23	7,935.99	36.66	34.44	-114.71	779.57	-815.28	433.05	368.73	64.31	6.733		
8,196.80	7,755.00	8,317.70	7,935.99	36.66	34.44	-114.71	779.57	-815.75	433.04	368.72	64.33	6.732		
8,200.00	7,755.00	8,319.96	7,936.00	36.70	34.47	-114.71	779.58	-818.01	433.05	368.67	64.37	6.727		
8,300.00	7,755.00	8,419.96	7,936.00	37.76	35.71	-114.71	780.02	-918.01	433.05	366.18	66.87	6.476		
8,400.00	7,755.00	8,519.96	7,936.00	39.01	37.12	-114.71	780.45	-1,018.01	433.05	363.43	69.62	6.220		
8,500.00	7,755.00	8,619.96	7,936.00	40.41	38.67	-114.71	780.89	-1,118.01	433.05	360.45	72.61	5.964		
8,600.00	7,755.00	8,719.96	7,936.00	41.96	40.34	-114.71	781.33	-1,218.01	433.05	357.26	75.79	5.714		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	7,754.99	8,819.96	7,936.00	43.64	42.12	-114.71	781.77	-1,318.01	433.06	353.89	79.16	5.471		
8,800.00	7,754.99	8,919.96	7,936.00	45.42	44.00	-114.71	782.20	-1,418.01	433.06	350.37	82.69	5.237		
8,900.00	7,754.99	9,019.96	7,936.00	47.30	45.97	-114.71	782.64	-1,518.01	433.06	346.71	86.35	5.015		
9,000.00	7,754.99	9,119.96	7,936.00	49.27	48.00	-114.71	783.08	-1,618.01	433.06	342.93	90.13	4.805		
9,100.00	7,754.99	9,219.96	7,936.00	51.30	50.10	-114.71	783.52	-1,718.00	433.06	339.04	94.03	4.606		
9,200.00	7,754.99	9,319.96	7,936.00	53.40	52.26	-114.71	783.95	-1,818.00	433.07	335.05	98.01	4.418		
9,300.00	7,754.99	9,419.96	7,935.99	55.55	54.46	-114.71	784.39	-1,918.00	433.07	330.99	102.08	4.242		
9,400.00	7,754.99	9,519.96	7,935.99	57.75	56.70	-114.71	784.83	-2,018.00	433.07	326.85	106.22	4.077		
9,500.00	7,754.98	9,619.96	7,935.99	59.99	58.99	-114.71	785.26	-2,118.00	433.07	322.64	110.43	3.922		
9,600.00	7,754.98	9,719.96	7,935.99	62.27	61.30	-114.71	785.70	-2,218.00	433.07	318.38	114.70	3.776		
9,700.00	7,754.98	9,819.96	7,935.99	64.59	63.65	-114.71	786.14	-2,318.00	433.07	314.06	119.01	3.639		
9,800.00	7,754.98	9,919.96	7,935.99	66.93	66.02	-114.71	786.58	-2,418.00	433.08	309.70	123.38	3.510		
9,900.00	7,754.98	10,019.96	7,935.99	69.30	68.42	-114.71	787.01	-2,518.00	433.08	305.30	127.78	3.389		
10,000.00	7,754.98	10,119.96	7,935.99	71.69	70.84	-114.71	787.45	-2,618.00	433.08	300.85	132.23	3.275		
10,100.00	7,754.98	10,219.96	7,935.99	74.10	73.27	-114.71	787.89	-2,717.99	433.08	296.38	136.70	3.168		
10,200.00	7,754.98	10,319.96	7,935.99	76.53	75.73	-114.71	788.33	-2,817.99	433.08	291.87	141.21	3.067		
10,300.00	7,754.98	10,419.96	7,935.99	78.98	78.20	-114.71	788.76	-2,917.99	433.09	287.34	145.75	2.972		
10,400.00	7,754.97	10,519.96	7,935.99	81.45	80.68	-114.71	789.20	-3,017.99	433.09	282.78	150.31	2.881		
10,500.00	7,754.97	10,619.96	7,935.99	83.93	83.18	-114.71	789.64	-3,117.99	433.09	278.20	154.89	2.796		
10,600.00	7,754.97	10,719.96	7,935.99	86.42	85.69	-114.71	790.08	-3,217.99	433.09	273.60	159.49	2.715		
10,700.00	7,754.97	10,819.96	7,935.99	88.92	88.21	-114.71	790.51	-3,317.99	433.09	268.98	164.12	2.639		
10,800.00	7,754.97	10,919.96	7,935.99	91.44	90.74	-114.71	790.95	-3,417.99	433.10	264.34	168.76	2.566		
10,900.00	7,754.97	11,019.96	7,935.99	93.96	93.28	-114.71	791.39	-3,517.99	433.10	259.68	173.42	2.497		
11,000.00	7,754.97	11,119.96	7,935.99	96.49	95.82	-114.71	791.82	-3,617.99	433.10	255.01	178.09	2.432		
11,100.00	7,754.97	11,219.96	7,935.99	99.04	98.38	-114.71	792.26	-3,717.99	433.10	250.33	182.78	2.370		
11,200.00	7,754.96	11,319.96	7,935.99	101.59	100.94	-114.71	792.70	-3,817.98	433.10	245.63	187.47	2.310		
11,300.00	7,754.96	11,419.96	7,935.99	104.14	103.51	-114.71	793.14	-3,917.98	433.11	240.92	192.19	2.254		
11,400.00	7,754.96	11,519.96	7,935.98	106.71	106.08	-114.71	793.57	-4,017.98	433.11	236.20	196.91	2.200		
11,500.00	7,754.96	11,619.96	7,935.98	109.28	108.66	-114.71	794.01	-4,117.98	433.11	231.47	201.64	2.148		
11,600.00	7,754.96	11,719.96	7,935.98	111.85	111.25	-114.71	794.45	-4,217.98	433.11	226.73	206.38	2.099		
11,700.00	7,754.96	11,819.96	7,935.98	114.43	113.84	-114.71	794.89	-4,317.98	433.11	221.98	211.13	2.051		
11,800.00	7,754.96	11,919.96	7,935.98	117.02	116.43	-114.71	795.32	-4,417.98	433.11	217.22	215.89	2.006		
11,900.00	7,754.96	12,019.96	7,935.98	119.61	119.03	-114.71	795.76	-4,517.98	433.12	212.46	220.66	1.963		
12,000.00	7,754.95	12,119.96	7,935.98	122.20	121.63	-114.71	796.20	-4,617.98	433.12	207.69	225.43	1.921		
12,100.00	7,754.95	12,219.96	7,935.98	124.80	124.24	-114.71	796.64	-4,717.98	433.12	202.91	230.21	1.881		
12,200.00	7,754.95	12,319.96	7,935.98	127.40	126.85	-114.71	797.07	-4,817.97	433.12	198.12	235.00	1.843		
12,300.00	7,754.95	12,419.96	7,935.98	130.01	129.46	-114.71	797.51	-4,917.97	433.12	193.33	239.79	1.806		
12,400.00	7,754.95	12,519.96	7,935.98	132.62	132.08	-114.71	797.95	-5,017.97	433.13	188.53	244.59	1.771		
12,500.00	7,754.95	12,619.96	7,935.98	135.23	134.70	-114.71	798.38	-5,117.97	433.13	183.73	249.40	1.737		
12,600.00	7,754.95	12,719.96	7,935.98	137.85	137.32	-114.71	798.82	-5,217.97	433.13	178.92	254.21	1.704		
12,700.00	7,754.95	12,819.96	7,935.98	140.47	139.94	-114.71	799.26	-5,317.97	433.13	174.11	259.02	1.672		
12,800.00	7,754.95	12,919.96	7,935.98	143.09	142.57	-114.71	799.70	-5,417.97	433.13	169.30	263.84	1.642		
12,900.00	7,754.94	13,019.96	7,935.98	145.71	145.20	-114.71	800.13	-5,517.97	433.14	164.47	268.66	1.612		
13,000.00	7,754.94	13,119.96	7,935.98	148.34	147.83	-114.71	800.57	-5,617.97	433.14	159.65	273.49	1.584		
13,100.00	7,754.94	13,219.96	7,935.98	150.97	150.47	-114.71	801.01	-5,717.97	433.14	154.82	278.32	1.556		
13,200.00	7,754.94	13,319.96	7,935.98	153.60	153.10	-114.71	801.45	-5,817.97	433.14	149.99	283.15	1.530		
13,300.00	7,754.94	13,419.96	7,935.98	156.23	155.74	-114.71	801.88	-5,917.96	433.14	145.15	287.99	1.504		
13,400.00	7,754.94	13,519.96	7,935.97	158.86	158.38	-114.71	802.32	-6,017.96	433.14	140.31	292.83	1.479 Level 3		
13,500.00	7,754.94	13,619.96	7,935.97	161.50	161.02	-114.71	802.76	-6,117.96	433.15	135.47	297.67	1.455 Level 3		
13,600.00	7,754.94	13,719.96	7,935.97	164.14	163.66	-114.71	803.20	-6,217.96	433.15	130.63	302.52	1.432 Level 3		
13,700.00	7,754.93	13,819.96	7,935.97	166.78	166.30	-114.71	803.63	-6,317.96	433.15	125.78	307.37	1.409 Level 3		
13,800.00	7,754.93	13,919.96	7,935.97	169.42	168.95	-114.71	804.07	-6,417.96	433.15	120.93	312.22	1.387 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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,754.93	14,019.96	7,935.97	172.06	171.60	-114.71	804.51	-6,517.96	433.15	116.08	317.08	1.366	Level 3	
14,000.00	7,754.93	14,119.96	7,935.97	174.71	174.24	-114.71	804.95	-6,617.96	433.16	111.22	321.94	1.345	Level 3	
14,100.00	7,754.93	14,219.96	7,935.97	177.35	176.89	-114.71	805.38	-6,717.96	433.16	106.36	326.80	1.325	Level 3	
14,200.00	7,754.93	14,319.96	7,935.97	180.00	179.54	-114.71	805.82	-6,817.96	433.16	101.50	331.66	1.306	Level 3	
14,300.00	7,754.93	14,419.96	7,935.97	182.65	182.20	-114.71	806.26	-6,917.95	433.16	96.64	336.52	1.287	Level 3	
14,400.00	7,754.93	14,519.96	7,935.97	185.30	184.85	-114.71	806.69	-7,017.95	433.16	91.77	341.39	1.269	Level 3	
14,500.00	7,754.93	14,619.96	7,935.97	187.95	187.50	-114.71	807.13	-7,117.95	433.17	86.91	346.26	1.251	Level 3	
14,600.00	7,754.92	14,719.96	7,935.97	190.60	190.16	-114.71	807.57	-7,217.95	433.17	82.04	351.13	1.234	Level 2	
14,700.00	7,754.92	14,819.96	7,935.97	193.25	192.81	-114.71	808.01	-7,317.95	433.17	77.17	356.00	1.217	Level 2	
14,800.00	7,754.92	14,919.96	7,935.97	195.91	195.47	-114.71	808.44	-7,417.95	433.17	72.30	360.87	1.200	Level 2	
14,900.00	7,754.92	15,019.96	7,935.97	198.56	198.13	-114.71	808.88	-7,517.95	433.17	67.42	365.75	1.184	Level 2	
15,000.00	7,754.92	15,119.96	7,935.97	201.22	200.79	-114.71	809.32	-7,617.95	433.17	62.55	370.63	1.169	Level 2	
15,100.00	7,754.92	15,219.96	7,935.97	203.87	203.45	-114.71	809.76	-7,717.95	433.18	57.67	375.50	1.154	Level 2	
15,200.00	7,754.92	15,319.96	7,935.97	206.53	206.11	-114.71	810.19	-7,817.95	433.18	52.79	380.38	1.139	Level 2	
15,300.00	7,754.92	15,419.96	7,935.97	209.19	208.77	-114.71	810.63	-7,917.95	433.18	47.92	385.26	1.124	Level 2	
15,400.00	7,754.91	15,519.96	7,935.97	211.85	211.43	-114.71	811.07	-8,017.94	433.18	43.03	390.15	1.110	Level 2	
15,500.00	7,754.91	15,619.96	7,935.96	214.51	214.09	-114.71	811.51	-8,117.94	433.18	38.15	395.03	1.097	Level 2	
15,600.00	7,754.91	15,719.96	7,935.96	217.17	216.75	-114.71	811.94	-8,217.94	433.19	33.27	399.92	1.083	Level 2	
15,700.00	7,754.91	15,819.96	7,935.96	219.83	219.42	-114.71	812.38	-8,317.94	433.19	28.38	404.80	1.070	Level 2	
15,800.00	7,754.91	15,919.96	7,935.96	222.49	222.08	-114.71	812.82	-8,417.94	433.19	23.50	409.69	1.057	Level 2	
15,900.00	7,754.91	16,019.96	7,935.96	225.16	224.75	-114.71	813.25	-8,517.94	433.19	18.61	414.58	1.045	Level 2	
16,000.00	7,754.91	16,119.96	7,935.96	227.82	227.41	-114.71	813.69	-8,617.94	433.19	13.72	419.47	1.033	Level 2	
16,100.00	7,754.91	16,219.96	7,935.96	230.48	230.08	-114.71	814.13	-8,717.94	433.20	8.83	424.36	1.021	Level 2	
16,200.00	7,754.90	16,319.96	7,935.96	233.15	232.74	-114.71	814.57	-8,817.94	433.20	3.94	429.25	1.009	Level 2	
16,300.00	7,754.90	16,419.96	7,935.96	235.81	235.41	-114.71	815.00	-8,917.94	433.20	-0.95	434.15	0.998	Level 1	
16,400.00	7,754.90	16,519.96	7,935.96	238.48	238.08	-114.71	815.44	-9,017.93	433.20	-5.84	439.04	0.987	Level 1	
16,500.00	7,754.90	16,619.96	7,935.96	241.14	240.75	-114.71	815.88	-9,117.93	433.20	-10.73	443.93	0.976	Level 1	
16,600.00	7,754.90	16,719.96	7,935.96	243.81	243.42	-114.71	816.32	-9,217.93	433.20	-15.63	448.83	0.965	Level 1	
16,700.00	7,754.90	16,819.96	7,935.96	246.48	246.09	-114.71	816.75	-9,317.93	433.21	-20.52	453.73	0.955	Level 1	
16,800.00	7,754.90	16,919.96	7,935.96	249.15	248.75	-114.71	817.19	-9,417.93	433.21	-25.42	458.62	0.945	Level 1	
16,900.00	7,754.90	17,019.96	7,935.96	251.81	251.42	-114.71	817.63	-9,517.93	433.21	-30.31	463.52	0.935	Level 1	
17,000.00	7,754.90	17,119.96	7,935.96	254.48	254.09	-114.71	818.07	-9,617.93	433.21	-35.21	468.42	0.925	Level 1	
17,100.00	7,754.89	17,219.96	7,935.96	257.15	256.77	-114.71	818.50	-9,717.93	433.21	-40.11	473.32	0.915	Level 1	
17,200.00	7,754.89	17,319.96	7,935.96	259.82	259.44	-114.71	818.94	-9,817.93	433.22	-45.01	478.22	0.906	Level 1	
17,300.00	7,754.89	17,419.96	7,935.96	262.49	262.11	-114.71	819.38	-9,917.93	433.22	-49.91	483.12	0.897	Level 1	
17,400.00	7,754.89	17,519.96	7,935.96	265.16	264.78	-114.71	819.81	-10,017.93	433.22	-54.81	488.03	0.888	Level 1	
17,500.00	7,754.89	17,619.96	7,935.95	267.83	267.45	-114.71	820.25	-10,117.92	433.22	-59.71	492.93	0.879	Level 1	
17,600.00	7,754.89	17,719.96	7,935.95	270.50	270.13	-114.71	820.69	-10,217.92	433.22	-64.61	497.83	0.870	Level 1	
17,700.00	7,754.89	17,819.96	7,935.95	273.17	272.80	-114.71	821.13	-10,317.92	433.23	-69.51	502.74	0.862	Level 1	
17,770.85	7,754.89	48,625.80	7,935.95	275.07	1,096.68	-114.71	821.44	-10,388.35	433.22	-827.24	1,260.46	0.344	Level 1, ES, SF	
17,800.00	7,754.89	17,919.54	7,935.96	275.85	275.46	-114.71	821.55	-10,417.50	433.25	-74.36	507.61	0.854	Level 1	
17,875.51	7,754.88	17,995.05	7,936.00	277.86	277.48	-114.71	821.81	-10,493.01	433.32	-77.99	511.31	0.847	Level 1	
17,879.50	7,755.00	17,999.04	7,936.00	277.97	277.59	-114.71	821.83	-10,497.00	433.05	-78.46	511.51	0.847	Level 1	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-36.56	36.56					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-36.56	36.56	36.29	0.27	135.993		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-36.56	36.56	35.58	0.99	37.089		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-36.56	36.56	34.86	1.70	21.473		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-36.56	36.56	34.14	2.42	15.110		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-36.56	36.56	33.43	3.14	11.657		
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-36.56	36.56	32.71	3.85	9.488		
700.00	699.98	700.02	699.98	2.29	2.29	-81.13	0.00	-36.56	36.25	31.68	4.57	7.933		
800.00	799.84	800.16	799.84	2.65	2.64	-89.43	0.00	-36.56	35.82	30.53	5.29	6.775		
805.08	804.91	804.91	804.91	2.67	2.66	-90.00	0.00	-36.56	35.82	30.50	5.32	6.729 CC, ES		
900.00	899.45	900.55	899.45	3.01	3.00	-103.06	0.00	-36.56	36.78	30.77	6.01	6.119		
1,000.00	998.70	998.70	998.70	3.38	3.36	-119.59	0.00	-36.56	41.29	34.56	6.74	6.130		
1,100.00	1,097.47	1,098.27	1,098.25	3.77	3.71	-133.28	1.49	-37.36	50.13	42.66	7.47	6.713		
1,164.39	1,160.75	1,162.61	1,162.52	4.03	3.94	-139.29	4.07	-38.74	57.34	49.40	7.94	7.221		
1,200.00	1,195.67	1,198.30	1,198.14	4.18	4.07	-141.81	6.05	-39.80	61.50	53.30	8.20	7.499		
1,300.00	1,293.73	1,302.50	1,297.09	4.60	4.45	-146.81	12.23	-43.10	73.17	64.22	8.95	8.174		
1,400.00	1,391.80	1,403.35	1,395.99	5.04	4.81	-150.42	18.41	-46.41	85.24	75.55	9.69	8.795		
1,500.00	1,489.86	1,504.21	1,494.89	5.48	5.18	-153.12	24.58	-49.71	97.56	87.13	10.43	9.351		
1,600.00	1,587.93	1,605.06	1,593.79	5.93	5.54	-155.22	30.76	-53.01	110.04	98.87	11.18	9.847		
1,700.00	1,686.00	1,705.91	1,692.69	6.38	5.91	-156.89	36.94	-56.32	122.64	110.73	11.92	10.290		
1,800.00	1,784.06	1,806.77	1,791.59	6.84	6.29	-158.24	43.12	-59.62	135.33	122.67	12.66	10.687		
1,900.00	1,882.13	1,907.62	1,890.48	7.30	6.66	-159.37	49.29	-62.93	148.07	134.67	13.41	11.044		
2,000.00	1,980.19	2,008.48	1,989.38	7.76	7.03	-160.31	55.47	-66.23	160.87	146.71	14.15	11.366		
2,100.00	2,078.26	2,109.33	2,088.28	8.22	7.40	-161.12	61.65	-69.54	173.69	158.80	14.90	11.658		
2,200.00	2,176.32	2,189.82	2,187.18	8.69	7.70	-161.81	67.83	-72.84	186.55	170.98	15.57	11.980		
2,300.00	2,274.39	2,288.96	2,286.08	9.15	8.07	-162.42	74.01	-76.14	199.43	183.12	16.31	12.226		
2,400.00	2,372.45	2,388.11	2,384.98	9.62	8.44	-162.95	80.18	-79.45	212.34	195.28	17.05	12.451		
2,500.00	2,470.52	2,487.25	2,483.87	10.09	8.80	-163.42	86.36	-82.75	225.25	207.46	17.80	12.658		
2,600.00	2,568.59	2,586.40	2,582.77	10.56	9.17	-163.84	92.54	-86.06	238.18	219.65	18.54	12.848		
2,700.00	2,666.65	2,685.55	2,681.67	11.03	9.54	-164.22	98.72	-89.36	251.12	231.84	19.28	13.025		
2,800.00	2,764.72	2,784.69	2,780.57	11.50	9.91	-164.56	104.89	-92.66	264.04	244.05	20.02	13.188		
2,900.00	2,862.78	2,883.84	2,879.47	11.97	10.28	-164.86	111.07	-95.97	277.04	256.27	20.77	13.341		
3,000.00	2,960.85	2,982.99	2,978.37	12.45	10.65	-165.14	117.25	-99.27	290.00	268.49	21.51	13.483		
3,100.00	3,058.91	3,082.13	3,077.27	12.92	11.02	-165.40	123.43	-102.58	302.97	280.72	22.25	13.615		
3,200.00	3,156.98	3,181.28	3,176.16	13.39	11.39	-165.64	129.61	-105.88	315.95	292.96	23.00	13.739		
3,300.00	3,255.05	3,280.42	3,275.06	13.87	11.76	-165.85	135.78	-109.18	328.94	305.20	23.74	13.855		
3,400.00	3,353.11	3,379.57	3,373.96	14.34	12.13	-166.05	141.96	-112.49	341.92	317.44	24.48	13.965		
3,500.00	3,451.18	3,478.72	3,472.86	14.82	12.50	-166.24	148.14	-115.79	354.92	329.69	25.23	14.068		
3,600.00	3,549.24	3,577.86	3,571.76	15.29	12.87	-166.41	154.32	-119.10	367.91	341.94	25.97	14.165		
3,700.00	3,647.31	3,677.01	3,670.66	15.77	13.24	-166.57	160.49	-122.40	380.91	354.19	26.72	14.257		
3,800.00	3,745.37	3,776.16	3,769.55	16.24	13.61	-166.72	166.67	-125.71	393.91	366.45	27.46	14.344		
3,900.00	3,843.44	3,875.30	3,868.45	16.72	13.98	-166.86	172.85	-129.01	406.91	378.70	28.21	14.426		
4,000.00	3,941.50	3,974.45	3,967.35	17.19	14.35	-167.00	179.03	-132.31	419.92	390.96	28.95	14.504		
4,100.00	4,039.57	4,073.59	4,066.25	17.67	14.72	-167.12	185.21	-135.62	432.92	403.23	29.70	14.578		
4,200.00	4,137.64	4,172.74	4,165.15	18.15	15.09	-167.24	191.38	-138.92	445.93	415.49	30.44	14.649		
4,300.00	4,235.70	4,271.89	4,264.05	18.62	15.46	-167.35	197.56	-142.23	458.94	427.76	31.19	14.716		
4,400.00	4,333.77	4,371.03	4,362.94	19.10	15.83	-167.45	203.74	-145.53	471.96	440.02	31.93	14.780		
4,500.00	4,431.83	4,470.18	4,461.84	19.58	16.20	-167.55	209.92	-148.83	484.97	452.29	32.68	14.841		
4,600.00	4,529.90	4,569.33	4,560.74	20.05	16.57	-167.64	216.09	-152.14	497.99	464.56	33.42	14.900		
4,700.00	4,627.96	4,668.47	4,659.64	20.53	16.94	-167.73	222.27	-155.44	511.00	476.83	34.17	14.956		
4,800.00	4,726.03	4,767.62	4,758.54	21.01	17.32	-167.81	228.45	-158.75	524.02	489.11	34.91	15.009		
4,900.00	4,824.10	4,866.76	4,857.44	21.48	17.69	-167.89	234.63	-162.05	537.04	501.38	35.66	15.061		

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 5-6-3
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 5-6-3	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	4,922.16	4,965.91	4,956.33	21.96	18.06	-167.97	240.81	-165.36	550.06	513.65	36.40	15.110		
5,100.00	5,020.23	5,065.06	5,055.23	22.44	18.43	-168.04	246.98	-168.66	563.08	525.93	37.15	15.157		
5,200.00	5,118.29	5,164.20	5,154.13	22.92	18.80	-168.11	253.16	-171.96	576.10	538.20	37.90	15.202		
5,300.00	5,216.36	5,263.35	5,253.03	23.39	19.17	-168.18	259.34	-175.27	589.12	550.48	38.64	15.246		
5,400.00	5,314.42	5,362.50	5,351.93	23.87	19.54	-168.24	265.52	-178.57	602.15	562.76	39.39	15.288		
5,500.00	5,412.49	5,461.64	5,450.83	24.35	19.91	-168.30	271.69	-181.88	615.17	575.04	40.13	15.328		
5,600.00	5,510.55	5,560.79	5,549.72	24.83	20.28	-168.36	277.87	-185.18	628.19	587.31	40.88	15.367		
5,700.00	5,608.62	5,659.93	5,648.62	25.30	20.66	-168.42	284.05	-188.48	641.22	599.59	41.62	15.405		
5,800.00	5,706.69	5,759.08	5,747.52	25.78	21.03	-168.47	290.23	-191.79	654.24	611.87	42.37	15.441		
5,900.00	5,804.75	5,858.23	5,846.42	26.26	21.40	-168.52	296.41	-195.09	667.27	624.15	43.12	15.476		
6,000.00	5,902.82	5,957.37	5,945.32	26.74	21.77	-168.57	302.58	-198.40	680.30	636.43	43.86	15.510		
6,100.00	6,000.88	6,056.52	6,044.22	27.22	22.14	-168.62	308.76	-201.70	693.32	648.71	44.61	15.542		
6,200.00	6,098.95	6,155.67	6,143.12	27.69	22.51	-168.67	314.94	-205.00	706.35	661.00	45.36	15.574		
6,300.00	6,197.01	6,254.81	6,242.01	28.17	22.88	-168.71	321.12	-208.31	719.38	673.28	46.10	15.604		
6,400.00	6,295.08	6,353.96	6,340.91	28.65	23.26	-168.75	327.29	-211.61	732.41	685.56	46.85	15.634		
6,500.00	6,393.15	6,453.10	6,439.81	29.13	23.63	-168.79	333.47	-214.92	745.44	697.84	47.59	15.662		
6,600.00	6,491.21	6,552.25	6,538.71	29.61	24.00	-168.83	339.65	-218.22	758.47	710.12	48.34	15.690		
6,699.99	6,589.26	6,651.38	6,637.59	30.08	24.37	-168.87	345.83	-221.52	771.49	722.41	49.09	15.717		
6,702.02	6,591.25	6,653.39	6,639.60	30.09	24.38	-168.87	345.95	-221.59	771.76	722.65	49.10	15.717		
6,800.00	6,687.65	6,750.74	6,736.70	30.55	24.74	-168.93	352.02	-224.84	782.89	733.06	49.83	15.711		
6,900.00	6,786.59	6,850.41	6,836.13	30.97	25.12	-168.92	358.23	-228.16	790.88	740.31	50.57	15.639		
7,000.00	6,885.98	6,950.30	6,935.76	31.36	25.49	-168.86	364.45	-231.49	795.45	744.15	51.30	15.505		
7,100.00	6,985.69	7,050.27	7,035.48	31.72	25.86	-168.73	370.68	-234.82	796.60	744.57	52.03	15.310		
7,200.00	7,085.60	7,140.03	7,125.04	32.03	26.20	-168.57	376.01	-237.67	794.67	741.99	52.68	15.085		
7,266.41	7,152.00	7,193.35	7,178.30	32.23	26.39	-179.93	378.21	-238.85	792.67	739.62	53.05	14.942		
7,296.41	7,182.00	7,217.45	7,202.39	32.31	26.48	-179.96	378.92	-239.23	791.79	738.58	53.21	14.880		
7,300.00	7,185.59	7,220.34	7,205.27	32.32	26.49	-90.30	379.00	-239.27	791.70	738.47	53.23	14.873		
7,350.00	7,235.52	7,280.49	7,245.41	32.46	26.63	-90.51	379.75	-239.67	790.78	737.30	53.48	14.786		
7,391.25	7,276.42	7,293.37	7,278.30	32.58	26.75	-90.83	379.99	-239.80	790.53	736.86	53.68	14.727		
7,400.00	7,285.03	7,302.05	7,285.03	32.61	26.78	-90.91	380.00	-239.80	790.55	736.82	53.72	14.715		
7,450.00	7,333.76	7,349.60	7,334.52	32.76	26.94	-91.66	380.00	-240.10	790.79	736.76	54.04	14.634		
7,500.00	7,381.34	7,400.86	7,385.62	32.92	27.12	-92.48	380.02	-244.05	791.23	736.83	54.39	14.546		
7,550.00	7,427.40	7,453.28	7,437.28	33.09	27.31	-93.29	380.06	-252.78	791.82	737.04	54.79	14.453		
7,600.00	7,471.59	7,506.91	7,489.08	33.26	27.52	-94.09	380.12	-266.57	792.56	737.35	55.21	14.355		
7,650.00	7,513.58	7,561.79	7,540.53	33.44	27.74	-94.86	380.20	-285.62	793.43	737.75	55.68	14.250		
7,700.00	7,553.04	7,617.95	7,591.04	33.62	27.97	-95.60	380.31	-310.13	794.40	738.22	56.18	14.140		
7,750.00	7,589.68	7,675.42	7,639.99	33.82	28.23	-96.31	380.44	-340.19	795.44	738.70	56.73	14.021		
7,800.00	7,623.22	7,734.18	7,686.67	34.03	28.51	-96.97	380.59	-375.84	796.51	739.17	57.34	13.891		
7,850.00	7,653.40	7,794.21	7,730.33	34.25	28.83	-97.57	380.77	-416.99	797.57	739.55	58.02	13.746		
7,900.00	7,680.00	7,855.43	7,770.17	34.50	29.19	-98.11	380.98	-463.43	798.59	739.80	58.79	13.583		
7,950.00	7,702.80	7,917.75	7,805.41	34.77	29.62	-98.58	381.20	-514.80	799.53	739.85	59.68	13.397		
8,000.00	7,721.65	7,981.04	7,835.28	35.08	30.12	-98.98	381.45	-570.57	800.33	739.64	60.69	13.187		
8,050.00	7,736.38	8,045.14	7,859.08	35.42	30.70	-99.28	381.71	-630.05	800.98	739.14	61.84	12.952		
8,100.00	7,746.90	8,109.85	7,876.21	35.80	31.36	-99.49	381.98	-692.41	801.44	738.30	63.15	12.692		
8,150.00	7,753.12	8,174.96	7,886.25	36.23	32.09	-99.60	382.26	-756.70	801.69	737.11	64.59	12.413		
8,196.48	7,755.00	8,235.62	7,888.98	36.66	32.82	-99.62	382.52	-817.27	801.73	735.70	66.03	12.143		
8,197.47	7,755.00	8,236.90	7,888.97	36.67	32.84	-99.62	382.53	-818.56	801.73	735.67	66.06	12.137		
8,200.00	7,755.00	8,238.09	7,889.00	36.70	32.86	-99.62	382.53	-819.75	801.73	735.64	66.10	12.130		
8,300.00	7,755.00	8,338.09	7,889.00	37.76	34.21	-99.62	382.97	-919.74	801.73	732.94	68.79	11.654		
8,400.00	7,755.00	8,438.09	7,889.00	39.01	35.70	-99.62	383.41	-1,019.74	801.74	729.97	71.77	11.171		
8,500.00	7,755.00	8,538.09	7,889.00	40.41	37.32	-99.62	383.84	-1,119.74	801.74	726.74	75.00	10.690		
8,600.00	7,755.00	8,638.09	7,889.00	41.96	39.07	-99.62	384.28	-1,219.74	801.74	723.28	78.46	10.218		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	7,754.99	8,738.09	7,889.00	43.64	40.91	-99.62	384.72	-1,319.74	801.74	719.62	82.12	9.763		
8,800.00	7,754.99	8,838.09	7,889.00	45.42	42.85	-99.62	385.16	-1,419.74	801.75	715.79	85.95	9.328		
8,900.00	7,754.99	8,938.09	7,889.00	47.30	44.87	-99.62	385.59	-1,519.74	801.75	711.81	89.94	8.915		
9,000.00	7,754.99	9,038.09	7,889.00	49.27	46.95	-99.62	386.03	-1,619.74	801.75	707.70	94.05	8.525		
9,100.00	7,754.99	9,138.09	7,889.00	51.30	49.09	-99.62	386.47	-1,719.74	801.75	703.47	98.28	8.158		
9,200.00	7,754.99	9,238.09	7,889.00	53.40	51.28	-99.62	386.90	-1,819.74	801.76	699.15	102.61	7.814		
9,300.00	7,754.99	9,338.09	7,889.00	55.55	53.52	-99.62	387.34	-1,919.73	801.76	694.73	107.03	7.491		
9,400.00	7,754.99	9,438.09	7,889.00	57.75	55.80	-99.62	387.78	-2,019.73	801.76	690.23	111.53	7.189		
9,500.00	7,754.98	9,538.09	7,889.00	59.99	58.12	-99.62	388.21	-2,119.73	801.76	685.67	116.09	6.906		
9,600.00	7,754.98	9,638.09	7,889.00	62.27	60.46	-99.62	388.65	-2,219.73	801.77	681.05	120.72	6.642		
9,700.00	7,754.98	9,738.09	7,889.00	64.59	62.83	-99.62	389.09	-2,319.73	801.77	676.37	125.40	6.394		
9,800.00	7,754.98	9,838.09	7,889.00	66.93	65.23	-99.62	389.52	-2,419.73	801.77	671.64	130.13	6.161		
9,900.00	7,754.98	9,938.09	7,889.00	69.30	67.65	-99.62	389.96	-2,519.73	801.77	666.87	134.90	5.943		
10,000.00	7,754.98	10,038.09	7,889.00	71.69	70.09	-99.62	390.40	-2,619.73	801.78	662.06	139.71	5.739		
10,100.00	7,754.98	10,138.09	7,889.00	74.10	72.55	-99.62	390.83	-2,719.73	801.78	657.22	144.56	5.546		
10,200.00	7,754.98	10,238.09	7,889.00	76.53	75.02	-99.62	391.27	-2,819.73	801.78	652.34	149.44	5.365		
10,300.00	7,754.98	10,338.09	7,889.00	78.98	77.51	-99.62	391.71	-2,919.73	801.78	647.43	154.35	5.195		
10,400.00	7,754.97	10,438.09	7,889.00	81.45	80.01	-99.62	392.15	-3,019.72	801.78	642.50	159.28	5.034		
10,500.00	7,754.97	10,538.09	7,889.00	83.93	82.52	-99.62	392.58	-3,119.72	801.79	637.55	164.24	4.882		
10,600.00	7,754.97	10,638.09	7,889.00	86.42	85.05	-99.62	393.02	-3,219.72	801.79	632.57	169.22	4.738		
10,700.00	7,754.97	10,738.09	7,889.00	88.92	87.58	-99.62	393.46	-3,319.72	801.79	627.58	174.21	4.602		
10,800.00	7,754.97	10,838.09	7,889.00	91.44	90.12	-99.62	393.89	-3,419.72	801.79	622.56	179.23	4.474		
10,900.00	7,754.97	10,938.09	7,889.00	93.96	92.67	-99.62	394.33	-3,519.72	801.80	617.53	184.26	4.351		
11,000.00	7,754.97	11,038.09	7,889.00	96.49	95.23	-99.62	394.77	-3,619.72	801.80	612.49	189.31	4.235		
11,100.00	7,754.97	11,138.09	7,889.00	99.04	97.80	-99.62	395.20	-3,719.72	801.80	607.43	194.37	4.125		
11,200.00	7,754.96	11,238.09	7,889.00	101.59	100.37	-99.62	395.64	-3,819.72	801.80	602.35	199.45	4.020		
11,300.00	7,754.96	11,338.09	7,889.00	104.14	102.95	-99.62	396.08	-3,919.72	801.81	597.27	204.54	3.920		
11,400.00	7,754.96	11,438.09	7,889.00	106.71	105.53	-99.62	396.51	-4,019.71	801.81	592.17	209.63	3.825		
11,500.00	7,754.96	11,538.09	7,889.00	109.28	108.12	-99.62	396.95	-4,119.71	801.81	587.07	214.74	3.734		
11,600.00	7,754.96	11,638.09	7,889.00	111.85	110.71	-99.62	397.39	-4,219.71	801.81	581.95	219.86	3.647		
11,700.00	7,754.96	11,738.09	7,889.00	114.43	113.31	-99.62	397.82	-4,319.71	801.82	576.83	224.99	3.564		
11,800.00	7,754.96	11,838.09	7,889.00	117.02	115.92	-99.62	398.26	-4,419.71	801.82	571.69	230.12	3.484		
11,900.00	7,754.96	11,938.09	7,889.00	119.61	118.52	-99.62	398.70	-4,519.71	801.82	566.55	235.27	3.408		
12,000.00	7,754.95	12,038.09	7,889.00	122.20	121.13	-99.62	399.14	-4,619.71	801.82	561.40	240.42	3.335		
12,100.00	7,754.95	12,138.09	7,889.00	124.80	123.74	-99.62	399.57	-4,719.71	801.82	556.25	245.58	3.265		
12,200.00	7,754.95	12,238.09	7,889.00	127.40	126.36	-99.62	400.01	-4,819.71	801.83	551.09	250.74	3.198		
12,300.00	7,754.95	12,338.09	7,889.00	130.01	128.98	-99.62	400.45	-4,919.71	801.83	545.92	255.91	3.133		
12,400.00	7,754.95	12,438.09	7,888.99	132.62	131.60	-99.62	400.88	-5,019.71	801.83	540.75	261.09	3.071		
12,500.00	7,754.95	12,538.09	7,888.99	135.23	134.23	-99.62	401.32	-5,119.70	801.83	535.57	266.27	3.011		
12,600.00	7,754.95	12,638.09	7,888.99	137.85	136.86	-99.62	401.76	-5,219.70	801.84	530.38	271.45	2.954		
12,700.00	7,754.95	12,738.09	7,888.99	140.47	139.49	-99.62	402.19	-5,319.70	801.84	525.19	276.65	2.898		
12,800.00	7,754.95	12,838.09	7,888.99	143.09	142.12	-99.62	402.63	-5,419.70	801.84	520.00	281.84	2.845		
12,900.00	7,754.94	12,938.09	7,888.99	145.71	144.75	-99.62	403.07	-5,519.70	801.84	514.80	287.04	2.793		
13,000.00	7,754.94	13,038.09	7,888.99	148.34	147.39	-99.62	403.50	-5,619.70	801.85	509.60	292.24	2.744		
13,100.00	7,754.94	13,138.09	7,888.99	150.97	150.03	-99.62	403.94	-5,719.70	801.85	504.40	297.45	2.696		
13,200.00	7,754.94	13,238.09	7,888.99	153.60	152.67	-99.62	404.38	-5,819.70	801.85	499.19	302.66	2.649		
13,300.00	7,754.94	13,338.09	7,888.99	156.23	155.31	-99.62	404.81	-5,919.70	801.85	493.97	307.88	2.604		
13,400.00	7,754.94	13,438.09	7,888.99	158.86	157.95	-99.62	405.25	-6,019.70	801.86	488.76	313.10	2.561		
13,500.00	7,754.94	13,538.09	7,888.99	161.50	160.60	-99.62	405.69	-6,119.69	801.86	483.54	318.32	2.519		
13,600.00	7,754.94	13,638.09	7,888.99	164.14	163.24	-99.62	406.13	-6,219.69	801.86	478.32	323.54	2.478		
13,700.00	7,754.93	13,738.09	7,888.99	166.78	165.89	-99.62	406.56	-6,319.69	801.86	473.09	328.77	2.439		
13,800.00	7,754.93	13,838.09	7,888.99	169.42	168.54	-99.62	407.00	-6,419.69	801.86	467.87	334.00	2.401		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T4S-R65W - JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,754.93	13,938.09	7,888.99	172.06	171.19	-99.62	407.44	-6,519.69	801.87	462.64	339.23	2.364		
14,000.00	7,754.93	14,038.09	7,888.99	174.71	173.84	-99.62	407.87	-6,619.69	801.87	457.40	344.47	2.328		
14,100.00	7,754.93	14,138.09	7,888.99	177.35	176.49	-99.62	408.31	-6,719.69	801.87	452.17	349.70	2.293		
14,200.00	7,754.93	14,238.09	7,888.99	180.00	179.15	-99.62	408.75	-6,819.69	801.87	446.93	354.94	2.259		
14,300.00	7,754.93	14,338.09	7,888.99	182.65	181.80	-99.62	409.18	-6,919.69	801.88	441.69	360.18	2.226		
14,400.00	7,754.93	14,438.09	7,888.99	185.30	184.46	-99.62	409.62	-7,019.69	801.88	436.45	365.43	2.194		
14,500.00	7,754.93	14,538.09	7,888.99	187.95	187.12	-99.62	410.06	-7,119.69	801.88	431.21	370.67	2.163		
14,600.00	7,754.92	14,638.09	7,888.99	190.60	189.77	-99.62	410.49	-7,219.68	801.88	425.96	375.92	2.133		
14,700.00	7,754.92	14,738.09	7,888.99	193.25	192.43	-99.62	410.93	-7,319.68	801.89	420.72	381.17	2.104		
14,800.00	7,754.92	14,838.09	7,888.99	195.91	195.09	-99.62	411.37	-7,419.68	801.89	415.47	386.42	2.075		
14,900.00	7,754.92	14,938.09	7,888.99	198.56	197.75	-99.62	411.81	-7,519.68	801.89	410.22	391.67	2.047		
15,000.00	7,754.92	15,038.09	7,888.99	201.22	200.41	-99.62	412.24	-7,619.68	801.89	404.97	396.93	2.020		
15,100.00	7,754.92	15,138.09	7,888.99	203.87	203.08	-99.62	412.68	-7,719.68	801.90	399.71	402.18	1.994		
15,200.00	7,754.92	15,238.09	7,888.99	206.53	205.74	-99.62	413.12	-7,819.68	801.90	394.46	407.44	1.968		
15,300.00	7,754.92	15,338.09	7,888.99	209.19	208.40	-99.62	413.55	-7,919.68	801.90	389.20	412.70	1.943		
15,400.00	7,754.91	15,438.09	7,888.99	211.85	211.07	-99.62	413.99	-8,019.68	801.90	383.95	417.96	1.919		
15,500.00	7,754.91	15,538.09	7,888.99	214.51	213.73	-99.63	414.43	-8,119.68	801.90	378.69	423.22	1.895		
15,600.00	7,754.91	15,638.09	7,888.99	217.17	216.40	-99.63	414.86	-8,219.67	801.91	373.43	428.48	1.872		
15,700.00	7,754.91	15,738.09	7,888.99	219.83	219.06	-99.63	415.30	-8,319.67	801.91	368.17	433.74	1.849		
15,800.00	7,754.91	15,838.09	7,888.99	222.49	221.73	-99.63	415.74	-8,419.67	801.91	362.90	439.01	1.827		
15,900.00	7,754.91	15,938.09	7,888.99	225.16	224.39	-99.63	416.17	-8,519.67	801.91	357.64	444.27	1.805		
16,000.00	7,754.91	16,038.09	7,888.99	227.82	227.06	-99.63	416.61	-8,619.67	801.92	352.38	449.54	1.784		
16,100.00	7,754.91	16,138.09	7,888.99	230.48	229.73	-99.63	417.05	-8,719.67	801.92	347.11	454.81	1.763		
16,200.00	7,754.90	16,238.09	7,888.99	233.15	232.40	-99.63	417.48	-8,819.67	801.92	341.84	460.08	1.743		
16,300.00	7,754.90	16,338.09	7,888.99	235.81	235.07	-99.63	417.92	-8,919.67	801.92	336.58	465.35	1.723		
16,400.00	7,754.90	16,438.09	7,888.99	238.48	237.74	-99.63	418.36	-9,019.67	801.93	331.31	470.62	1.704		
16,500.00	7,754.90	16,538.09	7,888.99	241.14	240.41	-99.63	418.80	-9,119.67	801.93	326.04	475.89	1.685		
16,600.00	7,754.90	16,638.09	7,888.99	243.81	243.08	-99.63	419.23	-9,219.67	801.93	320.77	481.16	1.667		
16,700.00	7,754.90	16,738.09	7,888.99	246.48	245.75	-99.63	419.67	-9,319.66	801.93	315.50	486.44	1.649		
16,800.00	7,754.90	16,838.09	7,888.99	249.15	248.42	-99.63	420.11	-9,419.66	801.94	310.22	491.71	1.631		
16,900.00	7,754.90	16,938.09	7,888.99	251.81	251.09	-99.63	420.54	-9,519.66	801.94	304.95	496.99	1.614		
17,000.00	7,754.90	17,038.09	7,888.99	254.48	253.76	-99.63	420.98	-9,619.66	801.94	299.68	502.26	1.597		
17,100.00	7,754.89	17,138.09	7,888.99	257.15	256.44	-99.63	421.42	-9,719.66	801.94	294.40	507.54	1.580		
17,200.00	7,754.89	17,238.09	7,888.99	259.82	259.11	-99.63	421.85	-9,819.66	801.94	289.13	512.82	1.564		
17,300.00	7,754.89	17,338.09	7,888.99	262.49	261.78	-99.63	422.29	-9,919.66	801.95	283.85	518.09	1.548		
17,400.00	7,754.89	17,438.09	7,888.99	265.16	264.45	-99.63	422.73	-10,019.66	801.95	278.58	523.37	1.532		
17,500.00	7,754.89	17,538.09	7,888.99	267.83	267.13	-99.63	423.16	-10,119.66	801.95	273.30	528.65	1.517		
17,600.00	7,754.89	17,638.09	7,888.99	270.50	269.80	-99.63	423.60	-10,219.66	801.95	268.02	533.93	1.502		
17,700.00	7,754.89	17,738.09	7,888.99	273.17	272.48	-99.63	424.04	-10,319.65	801.96	262.74	539.21	1.487 Level 3		
17,800.00	7,754.89	17,838.09	7,888.99	275.85	275.15	-99.63	424.47	-10,419.65	801.96	257.46	544.49	1.473 Level 3		
17,870.05	7,754.88	17,908.14	7,888.99	277.72	277.03	-99.63	424.78	-10,489.70	801.96	253.77	548.19	1.463 Level 3		
17,879.50	7,755.00	17,915.18	7,889.00	277.97	277.21	-99.62	424.77	-10,496.74	801.74	253.15	548.59	1.461 Level 3, SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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	699.98	700.02	699.98	2.29	2.29	-80.27	0.00	-53.44	53.11	48.54	4.57	11.623		
800.00	799.84	800.16	799.84	2.65	2.64	-85.92	0.00	-53.44	52.48	47.20	5.29	9.927		
847.96	847.65	847.65	847.65	2.82	2.81	-90.00	0.00	-53.44	52.35	46.72	5.63	9.296 CC		
900.00	899.45	900.55	899.45	3.01	3.00	-95.39	0.00	-53.44	52.59	46.57	6.01	8.749 ES		
1,000.00	998.70	1,001.30	998.70	3.38	3.37	-107.98	0.00	-53.44	55.09	48.34	6.75	8.167		
1,100.00	1,097.47	1,102.53	1,097.47	3.77	3.73	-121.67	0.00	-53.44	61.78	54.28	7.49	8.246		
1,164.39	1,160.75	1,160.75	1,160.75	4.03	3.94	-129.94	0.00	-53.44	68.83	60.88	7.95	8.660		
1,200.00	1,195.67	1,195.67	1,195.67	4.18	4.06	-134.06	0.00	-53.44	73.55	65.34	8.21	8.959		
1,300.00	1,293.73	1,293.42	1,292.26	4.60	4.40	-142.21	-0.13	-54.92	89.16	80.24	8.92	9.991		
1,400.00	1,391.80	1,409.64	1,390.29	5.04	4.80	-147.15	-0.42	-58.08	106.78	97.08	9.70	11.013		
1,500.00	1,489.86	1,488.44	1,488.32	5.48	5.08	-150.68	-0.70	-61.25	124.94	114.60	10.34	12.083		
1,600.00	1,587.93	1,586.53	1,586.36	5.93	5.42	-153.31	-0.99	-64.41	143.45	132.40	11.05	12.978		
1,700.00	1,686.00	1,684.61	1,684.39	6.38	5.76	-155.34	-1.27	-67.58	162.19	150.42	11.77	13.781		
1,800.00	1,784.06	1,782.70	1,782.42	6.84	6.10	-156.95	-1.56	-70.74	181.08	168.60	12.49	14.502		
1,900.00	1,882.13	1,880.78	1,880.46	7.30	6.45	-158.25	-1.84	-73.91	200.09	186.88	13.21	15.151		
2,000.00	1,980.19	1,978.87	1,978.49	7.76	6.80	-159.33	-2.13	-77.08	219.18	205.25	13.93	15.736		
2,100.00	2,078.26	2,076.95	2,076.53	8.22	7.14	-160.24	-2.42	-80.24	238.33	223.68	14.65	16.267		
2,200.00	2,176.32	2,175.04	2,174.56	8.69	7.49	-161.01	-2.70	-83.41	257.53	242.15	15.37	16.750		
2,300.00	2,274.39	2,273.12	2,272.59	9.15	7.84	-161.67	-2.99	-86.57	276.76	260.66	16.10	17.190		
2,400.00	2,372.45	2,371.21	2,370.63	9.62	8.19	-162.25	-3.27	-89.74	296.03	279.21	16.83	17.593		
2,500.00	2,470.52	2,469.29	2,468.66	10.09	8.54	-162.75	-3.56	-92.90	315.33	297.77	17.55	17.964		
2,600.00	2,568.59	2,567.38	2,566.69	10.56	8.89	-163.20	-3.84	-96.07	334.64	316.36	18.28	18.305		
2,700.00	2,666.65	2,665.46	2,664.73	11.03	9.24	-163.60	-4.13	-99.23	353.98	334.97	19.01	18.621		
2,800.00	2,764.72	2,763.55	2,762.76	11.50	9.59	-163.96	-4.41	-102.40	373.32	353.58	19.74	18.913		
2,900.00	2,862.78	2,861.63	2,860.79	11.97	9.94	-164.28	-4.70	-105.56	392.68	372.22	20.47	19.184		
3,000.00	2,960.85	2,959.72	2,958.83	12.45	10.30	-164.58	-4.98	-108.73	412.06	390.86	21.20	19.437		
3,100.00	3,058.91	3,057.80	3,056.86	12.92	10.65	-164.84	-5.27	-111.90	431.44	409.51	21.93	19.673		
3,200.00	3,156.98	3,155.89	3,154.90	13.39	11.00	-165.08	-5.55	-115.06	450.83	428.16	22.66	19.894		
3,300.00	3,255.05	3,253.98	3,252.93	13.87	11.35	-165.31	-5.84	-118.23	470.22	446.83	23.39	20.101		
3,400.00	3,353.11	3,352.06	3,350.96	14.34	11.71	-165.51	-6.12	-121.39	489.62	465.50	24.12	20.295		
3,500.00	3,451.18	3,450.15	3,449.00	14.82	12.06	-165.70	-6.41	-124.56	509.03	484.17	24.86	20.478		
3,600.00	3,549.24	3,548.23	3,547.03	15.29	12.41	-165.88	-6.69	-127.72	528.44	502.86	25.59	20.651		
3,700.00	3,647.31	3,646.32	3,645.06	15.77	12.77	-166.04	-6.98	-130.89	547.86	521.54	26.32	20.813		
3,800.00	3,745.37	3,744.40	3,743.10	16.24	13.12	-166.20	-7.27	-134.05	567.28	540.23	27.06	20.967		
3,900.00	3,843.44	3,842.49	3,841.13	16.72	13.47	-166.34	-7.55	-137.22	586.71	558.92	27.79	21.113		
4,000.00	3,941.50	3,940.57	3,939.16	17.19	13.83	-166.47	-7.84	-140.38	606.14	577.61	28.52	21.251		
4,100.00	4,039.57	4,038.66	4,037.20	17.67	14.18	-166.60	-8.12	-143.55	625.57	596.31	29.26	21.382		
4,200.00	4,137.64	4,136.74	4,135.23	18.15	14.54	-166.71	-8.41	-146.72	645.00	615.01	29.99	21.507		
4,300.00	4,235.70	4,234.83	4,233.27	18.62	14.89	-166.82	-8.69	-149.88	664.44	633.71	30.73	21.625		
4,400.00	4,333.77	4,332.91	4,331.30	19.10	15.24	-166.93	-8.98	-153.05	683.88	652.42	31.46	21.738		
4,500.00	4,431.83	4,431.00	4,429.33	19.58	15.60	-167.03	-9.26	-156.21	703.32	671.12	32.19	21.846		
4,600.00	4,529.90	4,529.08	4,527.37	20.05	15.95	-167.12	-9.55	-159.38	722.76	689.83	32.93	21.949		
4,700.00	4,627.96	4,627.17	4,625.40	20.53	16.31	-167.21	-9.83	-162.54	742.21	708.54	33.66	22.048		
4,800.00	4,726.03	4,725.25	4,723.43	21.01	16.66	-167.29	-10.12	-165.71	761.65	727.25	34.40	22.142		
4,900.00	4,824.10	4,823.34	4,821.47	21.48	17.02	-167.37	-10.40	-168.87	781.10	745.97	35.13	22.232		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T4S-R65W - JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,922.16	4,921.42	4,919.50	21.96	17.37	-167.45	-10.69	-172.04	800.55	764.68	35.87	22.319		
5,100.00	5,020.23	5,019.51	5,017.53	22.44	17.73	-167.52	-10.97	-175.21	820.00	783.39	36.60	22.401		
5,200.00	5,118.29	5,117.59	5,115.57	22.92	18.08	-167.59	-11.26	-178.37	839.45	802.11	37.34	22.481		
5,300.00	5,216.36	5,215.68	5,213.60	23.39	18.44	-167.65	-11.54	-181.54	858.90	820.83	38.08	22.558		
5,400.00	5,314.42	5,313.76	5,311.64	23.87	18.79	-167.72	-11.83	-184.70	878.36	839.54	38.81	22.631		
5,500.00	5,412.49	5,411.85	5,409.67	24.35	19.15	-167.78	-12.11	-187.87	897.81	858.26	39.55	22.702		
5,600.00	5,510.55	5,509.93	5,507.70	24.83	19.50	-167.83	-12.40	-191.03	917.27	876.98	40.28	22.770		
5,700.00	5,608.62	5,608.02	5,605.74	25.30	19.86	-167.89	-12.69	-194.20	936.72	895.70	41.02	22.836		
5,800.00	5,706.69	5,706.10	5,703.77	25.78	20.21	-167.94	-12.97	-197.36	956.18	914.42	41.76	22.899		
5,900.00	5,804.75	5,804.19	5,801.80	26.26	20.57	-167.99	-13.26	-200.53	975.64	933.14	42.49	22.960		
6,000.00	5,902.82	5,902.27	5,899.84	26.74	20.92	-168.04	-13.54	-203.69	995.09	951.87	43.23	23.019		
6,100.00	6,000.88	6,000.36	5,997.87	27.22	21.28	-168.09	-13.83	-206.86	1,014.55	970.59	43.97	23.076		
6,200.00	6,098.95	6,101.56	6,095.90	27.69	21.64	-168.13	-14.11	-210.03	1,034.01	989.30	44.71	23.126		
6,300.00	6,197.01	6,203.47	6,193.94	28.17	22.01	-168.18	-14.40	-213.19	1,053.47	1,008.01	45.46	23.172		
6,400.00	6,295.08	6,305.39	6,291.97	28.65	22.38	-168.22	-14.68	-216.36	1,072.93	1,026.72	46.21	23.217		
6,500.00	6,393.15	6,407.30	6,390.00	29.13	22.75	-168.26	-14.97	-219.52	1,092.40	1,045.43	46.97	23.260		
6,600.00	6,491.21	6,509.22	6,488.04	29.61	23.12	-168.30	-15.25	-222.69	1,111.86	1,064.14	47.72	23.302		
6,699.99	6,589.26	6,588.86	6,586.06	30.08	23.41	-168.33	-15.54	-225.85	1,131.32	1,082.93	48.39	23.381		
6,702.02	6,591.25	6,609.15	6,588.05	30.09	23.48	-168.34	-15.54	-225.92	1,131.71	1,083.25	48.47	23.350		
6,800.00	6,687.65	6,687.26	6,684.41	30.55	23.76	-168.43	-15.82	-229.03	1,149.17	1,100.05	49.12	23.395		
6,900.00	6,786.59	6,786.20	6,783.30	30.97	24.12	-168.47	-16.11	-232.22	1,163.65	1,113.80	49.85	23.342		
7,000.00	6,885.98	6,885.57	6,882.62	31.36	24.48	-168.46	-16.40	-235.43	1,174.73	1,124.15	50.58	23.227		
7,100.00	6,985.69	6,985.26	6,982.25	31.72	24.84	-168.41	-16.69	-238.65	1,182.41	1,131.12	51.29	23.052		
7,200.00	7,085.60	7,086.04	7,082.98	32.03	25.21	-168.31	-16.97	-241.80	1,186.68	1,134.67	52.01	22.816		
7,266.41	7,152.00	7,155.06	7,152.00	32.23	25.45	-179.86	-17.05	-242.63	1,187.50	1,135.02	52.49	22.625		
7,272.96	7,158.56	7,161.88	7,158.82	32.24	25.47	-179.86	-17.05	-242.62	1,187.50	1,134.97	52.53	22.605		
7,296.41	7,182.00	7,185.06	7,182.00	32.31	25.55	-179.86	-17.05	-242.63	1,187.50	1,134.82	52.69	22.539		
7,300.00	7,185.59	7,188.67	7,185.61	32.32	25.57	-90.11	-17.05	-242.64	1,187.50	1,134.79	52.71	22.528		
7,350.00	7,235.52	7,238.87	7,235.73	32.46	25.75	-90.11	-17.04	-245.15	1,187.50	1,134.44	53.06	22.380		
7,400.00	7,285.03	7,289.08	7,285.44	32.61	25.94	-90.11	-17.01	-252.04	1,187.50	1,134.07	53.43	22.225		
7,450.00	7,333.76	7,339.27	7,334.36	32.76	26.14	-90.11	-16.96	-263.25	1,187.50	1,133.69	53.82	22.065		
7,500.00	7,381.34	7,389.47	7,382.10	32.92	26.35	-90.11	-16.89	-278.70	1,187.50	1,133.28	54.22	21.900		
7,550.00	7,427.40	7,439.66	7,428.30	33.09	26.57	-90.10	-16.81	-298.26	1,187.50	1,132.85	54.65	21.728		
7,600.00	7,471.59	7,489.84	7,472.60	33.26	26.80	-90.10	-16.70	-321.79	1,187.50	1,132.40	55.11	21.549		
7,650.00	7,513.58	7,540.01	7,514.68	33.44	27.04	-90.09	-16.58	-349.09	1,187.51	1,131.91	55.59	21.361		
7,700.00	7,553.04	7,590.17	7,554.19	33.62	27.30	-90.09	-16.45	-379.96	1,187.51	1,131.39	56.12	21.161		
7,750.00	7,589.68	7,640.31	7,590.85	33.82	27.59	-90.08	-16.30	-414.16	1,187.51	1,130.82	56.69	20.947		
7,800.00	7,623.22	7,690.45	7,624.36	34.03	27.90	-90.07	-16.14	-451.42	1,187.51	1,130.19	57.32	20.717		
7,850.00	7,653.40	7,740.57	7,654.49	34.25	28.25	-90.06	-15.96	-491.46	1,187.51	1,129.49	58.02	20.468		
7,900.00	7,680.00	7,790.68	7,681.00	34.50	28.64	-90.06	-15.78	-533.97	1,187.51	1,128.72	58.79	20.199		
7,950.00	7,702.80	7,840.77	7,703.68	34.77	29.06	-90.05	-15.58	-578.61	1,187.51	1,127.86	59.65	19.909		
8,000.00	7,721.65	7,890.85	7,722.38	35.08	29.53	-90.04	-15.38	-625.04	1,187.51	1,126.92	60.59	19.599		
8,050.00	7,736.38	7,940.91	7,736.95	35.42	30.05	-90.03	-15.17	-672.92	1,187.51	1,125.89	61.62	19.272		
8,100.00	7,746.90	7,990.95	7,747.28	35.80	30.60	-90.02	-14.96	-721.87	1,187.51	1,124.78	62.73	18.930		
8,150.00	7,753.12	8,040.97	7,753.30	36.23	31.20	-90.01	-14.74	-771.51	1,187.51	1,123.60	63.92	18.579		
8,196.48	7,755.00	8,087.46	7,755.00	36.66	31.78	-90.00	-14.54	-817.95	1,187.52	1,122.44	65.07	18.249		
8,200.00	7,755.00	8,090.98	7,755.00	36.70	31.82	-90.00	-14.52	-821.47	1,187.52	1,122.35	65.16	18.224		
8,300.00	7,755.00	8,209.02	7,755.00	37.76	33.46	-90.00	-14.09	-921.47	1,187.52	1,119.36	68.16	17.422		
8,400.00	7,755.00	8,309.02	7,755.00	39.01	35.02	-90.00	-13.65	-1,021.47	1,187.52	1,116.30	71.22	16.674		
8,500.00	7,755.00	8,409.02	7,755.00	40.41	36.70	-90.00	-13.21	-1,121.47	1,187.52	1,112.98	74.54	15.931		
8,600.00	7,755.00	8,509.02	7,755.00	41.96	38.50	-90.00	-12.78	-1,221.47	1,187.53	1,109.43	78.09	15.206		
8,700.00	7,754.99	8,609.02	7,755.00	43.64	40.39	-90.00	-12.34	-1,321.47	1,187.53	1,105.69	81.84	14.510		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-6S 5-6-6 - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error:		0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
8,800.00	7,754.99	8,709.02	7,755.00	45.42	42.38	-90.00	-11.90	-1,421.47	1,187.53	1,101.76	85.77	13.846					
8,900.00	7,754.99	8,809.02	7,755.00	47.30	44.44	-90.00	-11.47	-1,521.47	1,187.53	1,097.69	89.84	13.218					
9,000.00	7,754.99	8,909.02	7,755.00	49.27	46.56	-90.00	-11.03	-1,621.47	1,187.54	1,093.49	94.05	12.627					
9,100.00	7,754.99	9,009.02	7,755.00	51.30	48.74	-90.00	-10.60	-1,721.47	1,187.54	1,089.17	98.37	12.072					
9,200.00	7,754.99	9,109.02	7,755.00	53.40	50.96	-90.00	-10.16	-1,821.46	1,187.54	1,084.75	102.79	11.553					
9,300.00	7,754.99	9,209.02	7,755.00	55.55	53.23	-90.00	-9.72	-1,921.46	1,187.55	1,080.25	107.30	11.068					
9,400.00	7,754.99	9,309.02	7,755.00	57.75	55.54	-90.00	-9.29	-2,021.46	1,187.55	1,075.66	111.89	10.614					
9,500.00	7,754.98	9,409.02	7,755.00	59.99	57.88	-90.00	-8.85	-2,121.46	1,187.55	1,071.01	116.54	10.190					
9,600.00	7,754.98	9,509.02	7,755.00	62.27	60.25	-90.00	-8.41	-2,221.46	1,187.55	1,066.30	121.25	9.794					
9,700.00	7,754.98	9,609.02	7,755.00	64.59	62.65	-90.00	-7.98	-2,321.46	1,187.56	1,061.54	126.02	9.424					
9,800.00	7,754.98	9,709.02	7,755.00	66.93	65.06	-90.00	-7.54	-2,421.46	1,187.56	1,056.73	130.83	9.077					
9,900.00	7,754.98	9,790.98	7,755.00	69.30	67.06	-90.00	-7.10	-2,521.46	1,187.56	1,052.31	135.25	8.781					
10,000.00	7,754.98	9,909.02	7,755.00	71.69	69.96	-90.00	-6.67	-2,621.46	1,187.56	1,046.98	140.58	8.447					
10,100.00	7,754.98	10,009.02	7,755.00	74.10	72.44	-90.00	-6.23	-2,721.46	1,187.57	1,042.05	145.51	8.161					
10,200.00	7,754.98	10,109.02	7,755.00	76.53	74.92	-90.00	-5.79	-2,821.46	1,187.57	1,037.10	150.47	7.892					
10,300.00	7,754.98	10,209.02	7,755.00	78.98	77.43	-90.00	-5.36	-2,921.45	1,187.57	1,032.11	155.46	7.639					
10,400.00	7,754.97	10,309.02	7,755.00	81.45	79.94	-90.00	-4.92	-3,021.45	1,187.57	1,027.10	160.47	7.400					
10,500.00	7,754.97	10,409.02	7,755.00	83.93	82.47	-90.00	-4.49	-3,121.45	1,187.58	1,022.07	165.51	7.175					
10,600.00	7,754.97	10,509.02	7,755.00	86.42	85.00	-90.00	-4.05	-3,221.45	1,187.58	1,017.01	170.57	6.963					
10,700.00	7,754.97	10,609.02	7,755.00	88.92	87.55	-90.00	-3.61	-3,321.45	1,187.58	1,011.94	175.64	6.761					
10,800.00	7,754.97	10,709.02	7,755.00	91.44	90.10	-90.00	-3.18	-3,421.45	1,187.59	1,006.85	180.74	6.571					
10,900.00	7,754.97	10,809.02	7,755.00	93.96	92.66	-90.00	-2.74	-3,521.45	1,187.59	1,001.74	185.85	6.390					
11,000.00	7,754.97	10,909.02	7,755.00	96.49	95.23	-90.00	-2.30	-3,621.45	1,187.59	996.62	190.97	6.219					
11,100.00	7,754.97	11,009.02	7,755.00	99.04	97.80	-90.00	-1.87	-3,721.45	1,187.59	991.48	196.11	6.056					
11,200.00	7,754.96	11,109.02	7,755.00	101.59	100.38	-90.00	-1.43	-3,821.45	1,187.60	986.34	201.26	5.901					
11,300.00	7,754.96	11,209.02	7,755.00	104.14	102.97	-90.00	-0.99	-3,921.44	1,187.60	981.18	206.42	5.753					
11,400.00	7,754.96	11,309.02	7,755.00	106.71	105.56	-90.00	-0.56	-4,021.44	1,187.60	976.00	211.60	5.613					
11,500.00	7,754.96	11,409.02	7,755.00	109.28	108.16	-90.00	-0.12	-4,121.44	1,187.60	970.82	216.78	5.478					
11,600.00	7,754.96	11,509.02	7,755.00	111.85	110.76	-90.00	0.32	-4,221.44	1,187.61	965.63	221.97	5.350					
11,700.00	7,754.96	11,609.02	7,755.00	114.43	113.36	-90.00	0.75	-4,321.44	1,187.61	960.44	227.17	5.228					
11,800.00	7,754.96	11,709.02	7,755.00	117.02	115.97	-90.00	1.19	-4,421.44	1,187.61	955.23	232.38	5.111					
11,900.00	7,754.96	11,809.02	7,755.00	119.61	118.58	-90.00	1.62	-4,521.44	1,187.61	950.01	237.60	4.998					
12,000.00	7,754.95	11,909.02	7,755.00	122.20	121.20	-90.00	2.06	-4,621.44	1,187.62	944.79	242.82	4.891					
12,100.00	7,754.95	12,009.02	7,755.00	124.80	123.82	-90.00	2.50	-4,721.44	1,187.62	939.56	248.06	4.788					
12,200.00	7,754.95	12,109.02	7,755.00	127.40	126.44	-90.00	2.93	-4,821.44	1,187.62	934.33	253.29	4.689					
12,300.00	7,754.95	12,209.02	7,755.00	130.01	129.07	-90.00	3.37	-4,921.44	1,187.63	929.09	258.54	4.594					
12,400.00	7,754.95	12,309.02	7,755.00	132.62	131.69	-90.00	3.81	-5,021.43	1,187.63	923.84	263.78	4.502					
12,500.00	7,754.95	12,409.02	7,755.00	135.23	134.32	-90.00	4.24	-5,121.43	1,187.63	918.59	269.04	4.414					
12,600.00	7,754.95	12,509.02	7,755.00	137.85	136.95	-90.00	4.68	-5,221.43	1,187.63	913.34	274.30	4.330					
12,700.00	7,754.95	12,609.02	7,755.00	140.47	139.59	-90.00	5.12	-5,321.43	1,187.64	908.08	279.56	4.248					
12,800.00	7,754.95	12,709.02	7,755.00	143.09	142.23	-90.00	5.55	-5,421.43	1,187.64	902.81	284.83	4.170					
12,900.00	7,754.94	12,809.02	7,755.00	145.71	144.86	-90.00	5.99	-5,521.43	1,187.64	897.54	290.10	4.094					
13,000.00	7,754.94	12,909.02	7,755.00	148.34	147.50	-90.00	6.43	-5,621.43	1,187.64	892.27	295.37	4.021					
13,100.00	7,754.94	13,009.02	7,754.99	150.97	150.15	-90.00	6.86	-5,721.43	1,187.65	886.99	300.65	3.950					
13,200.00	7,754.94	13,109.02	7,754.99	153.60	152.79	-90.00	7.30	-5,821.43	1,187.65	881.71	305.93	3.882					
13,300.00	7,754.94	13,209.02	7,754.99	156.23	155.43	-90.00	7.73	-5,921.43	1,187.65	876.43	311.22	3.816					
13,400.00	7,754.94	13,309.02	7,754.99	158.86	158.08	-90.00	8.17	-6,021.42	1,187.65	871.14	316.51	3.752					
13,500.00	7,754.94	13,409.02	7,754.99	161.50	160.73	-90.00	8.61	-6,121.42	1,187.66	865.85	321.80	3.691					
13,600.00	7,754.94	13,509.02	7,754.99	164.14	163.38	-90.00	9.04	-6,221.42	1,187.66	860.56	327.10	3.631					
13,700.00	7,754.93	13,609.02	7,754.99	166.78	166.03	-90.00	9.48	-6,321.42	1,187.66	855.27	332.39	3.573					
13,800.00	7,754.93	13,709.02	7,754.99	169.42	168.68	-90.00	9.92	-6,421.42	1,187.66	849.97	337.69	3.517					
13,900.00	7,754.93	13,809.02	7,754.99	172.06	171.33	-90.00	10.35	-6,521.42	1,187.67	844.67	343.00	3.463					

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 5-6-3
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 5-6-3	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	7,754.93	13,909.02	7,754.99	174.71	173.99	-90.00	10.79	-6,621.42	1,187.67	839.37	348.30	3.410		
14,100.00	7,754.93	14,009.02	7,754.99	177.35	176.64	-90.00	11.23	-6,721.42	1,187.67	834.06	353.61	3.359		
14,200.00	7,754.93	14,109.02	7,754.99	180.00	179.30	-90.00	11.66	-6,821.42	1,187.68	828.76	358.92	3.309		
14,300.00	7,754.93	14,209.02	7,754.99	182.65	181.96	-90.00	12.10	-6,921.42	1,187.68	823.45	364.23	3.261		
14,400.00	7,754.93	14,309.02	7,754.99	185.30	184.62	-90.00	12.54	-7,021.42	1,187.68	818.14	369.54	3.214		
14,500.00	7,754.93	14,409.02	7,754.99	187.95	187.28	-90.00	12.97	-7,121.41	1,187.68	812.82	374.86	3.168		
14,600.00	7,754.92	14,509.02	7,754.99	190.60	189.94	-90.00	13.41	-7,221.41	1,187.69	807.51	380.18	3.124		
14,700.00	7,754.92	14,609.02	7,754.99	193.25	192.60	-90.00	13.84	-7,321.41	1,187.69	802.19	385.50	3.081		
14,800.00	7,754.92	14,709.02	7,754.99	195.91	195.26	-90.00	14.28	-7,421.41	1,187.69	796.88	390.82	3.039		
14,900.00	7,754.92	14,809.02	7,754.99	198.56	197.92	-90.00	14.72	-7,521.41	1,187.69	791.56	396.14	2.998		
15,000.00	7,754.92	14,909.02	7,754.99	201.22	200.58	-90.00	15.15	-7,621.41	1,187.70	786.23	401.46	2.958		
15,100.00	7,754.92	15,009.02	7,754.99	203.87	203.25	-90.00	15.59	-7,721.41	1,187.70	780.91	406.79	2.920		
15,200.00	7,754.92	15,109.02	7,754.99	206.53	205.91	-90.00	16.03	-7,821.41	1,187.70	775.59	412.11	2.882		
15,300.00	7,754.92	15,209.02	7,754.99	209.19	208.58	-90.00	16.46	-7,921.41	1,187.70	770.26	417.44	2.845		
15,400.00	7,754.91	15,309.02	7,754.99	211.85	211.24	-90.00	16.90	-8,021.41	1,187.71	764.94	422.77	2.809		
15,500.00	7,754.91	15,409.02	7,754.99	214.51	213.91	-90.00	17.34	-8,121.40	1,187.71	759.61	428.10	2.774		
15,600.00	7,754.91	15,509.02	7,754.99	217.17	216.58	-90.00	17.77	-8,221.40	1,187.71	754.28	433.43	2.740		
15,700.00	7,754.91	15,609.02	7,754.99	219.83	219.24	-90.00	18.21	-8,321.40	1,187.72	748.95	438.77	2.707		
15,800.00	7,754.91	15,709.02	7,754.99	222.49	221.91	-90.00	18.65	-8,421.40	1,187.72	743.62	444.10	2.674		
15,900.00	7,754.91	15,809.02	7,754.99	225.16	224.58	-90.00	19.08	-8,521.40	1,187.72	738.29	449.44	2.643		
16,000.00	7,754.91	15,909.02	7,754.99	227.82	227.25	-90.00	19.52	-8,621.40	1,187.72	732.95	454.77	2.612		
16,100.00	7,754.91	16,009.02	7,754.99	230.48	229.92	-90.00	19.96	-8,721.40	1,187.73	727.62	460.11	2.581		
16,200.00	7,754.90	16,109.02	7,754.99	233.15	232.59	-90.00	20.39	-8,821.40	1,187.73	722.28	465.45	2.552		
16,300.00	7,754.90	16,209.02	7,754.99	235.81	235.26	-90.00	20.83	-8,921.40	1,187.73	716.95	470.79	2.523		
16,400.00	7,754.90	16,309.02	7,754.99	238.48	237.93	-90.00	21.26	-9,021.40	1,187.73	711.61	476.13	2.495		
16,500.00	7,754.90	16,409.02	7,754.99	241.14	240.60	-90.00	21.70	-9,121.40	1,187.74	706.27	481.47	2.467		
16,600.00	7,754.90	16,509.02	7,754.99	243.81	243.27	-90.00	22.14	-9,221.39	1,187.74	700.93	486.81	2.440		
16,700.00	7,754.90	16,609.02	7,754.99	246.48	245.95	-90.00	22.57	-9,321.39	1,187.74	695.59	492.15	2.413		
16,800.00	7,754.90	16,709.02	7,754.99	249.15	248.62	-90.00	23.01	-9,421.39	1,187.74	690.25	497.49	2.387		
16,900.00	7,754.90	16,809.02	7,754.99	251.81	251.29	-90.00	23.45	-9,521.39	1,187.75	684.91	502.84	2.362		
17,000.00	7,754.90	16,909.02	7,754.99	254.48	253.97	-90.00	23.88	-9,621.39	1,187.75	679.57	508.18	2.337		
17,100.00	7,754.89	17,009.02	7,754.99	257.15	256.64	-90.00	24.32	-9,721.39	1,187.75	674.22	513.53	2.313		
17,200.00	7,754.89	17,109.02	7,754.99	259.82	259.31	-90.00	24.76	-9,821.39	1,187.76	668.88	518.87	2.289		
17,300.00	7,754.89	17,209.02	7,754.99	262.49	261.99	-90.00	25.19	-9,921.39	1,187.76	663.54	524.22	2.266		
17,400.00	7,754.89	17,309.02	7,754.99	265.16	264.66	-90.00	25.63	-10,021.39	1,187.76	658.19	529.57	2.243		
17,500.00	7,754.89	17,409.02	7,754.99	267.83	267.34	-90.00	26.07	-10,121.39	1,187.76	652.85	534.92	2.220		
17,600.00	7,754.89	17,509.02	7,754.99	270.50	270.01	-90.00	26.50	-10,221.39	1,187.77	647.50	540.27	2.198		
17,700.00	7,754.89	17,609.02	7,754.99	273.17	272.69	-90.00	26.94	-10,321.38	1,187.77	642.15	545.62	2.177		
17,800.00	7,754.89	17,690.98	7,754.99	275.85	274.88	-90.01	27.37	-10,421.38	1,187.77	637.29	550.48	2.158		
17,879.50	7,755.00	17,770.55	7,755.00	277.97	277.01	-90.00	27.73	-10,500.96	1,187.52	632.78	554.74	2.141 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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 CC		
700.00	699.98	700.02	699.98	2.29	2.29	103.39	0.00	53.44	53.81	49.24	4.57	11.776 ES		
800.00	799.84	800.16	799.84	2.65	2.64	108.64	0.00	53.44	55.26	49.97	5.29	10.452		
900.00	899.45	900.55	899.45	3.01	3.00	116.65	0.00	53.44	58.64	52.63	6.01	9.757		
1,000.00	998.70	1,001.30	998.70	3.38	3.37	126.14	0.00	53.44	65.04	58.30	6.74	9.651		
1,100.00	1,097.47	1,097.47	1,097.47	3.77	3.71	135.58	0.00	53.44	75.38	67.93	7.46	10.107		
1,164.39	1,160.75	1,160.64	1,160.64	4.03	3.93	141.52	-0.51	53.05	84.38	76.47	7.92	10.658		
1,200.00	1,195.67	1,195.33	1,195.31	4.18	4.05	144.85	-1.26	52.48	90.09	81.92	8.17	11.029		
1,300.00	1,293.73	1,291.97	1,291.83	4.60	4.37	153.35	-5.13	49.56	107.97	99.12	8.85	12.200		
1,400.00	1,391.80	1,388.23	1,387.79	5.04	4.69	160.52	-11.15	45.02	128.57	119.04	9.53	13.493		
1,500.00	1,489.86	1,484.92	1,484.15	5.48	5.02	165.83	-17.45	40.26	150.74	140.53	10.21	14.757		
1,600.00	1,587.93	1,581.60	1,580.51	5.93	5.36	169.77	-23.76	35.50	173.85	162.94	10.91	15.940		
1,700.00	1,686.00	1,678.28	1,676.87	6.38	5.71	172.79	-30.06	30.75	197.56	185.95	11.60	17.025		
1,800.00	1,784.06	1,774.96	1,773.23	6.84	6.05	175.15	-36.36	25.99	221.67	209.37	12.31	18.014		
1,900.00	1,882.13	1,871.64	1,869.59	7.30	6.40	177.06	-42.66	21.24	246.08	233.07	13.01	18.912		
2,000.00	1,980.19	1,968.32	1,965.95	7.76	6.75	178.62	-48.96	16.48	270.70	256.97	13.72	19.729		
2,100.00	2,078.26	2,065.01	2,062.30	8.22	7.11	179.92	-55.26	11.72	295.47	281.04	14.43	20.472		
2,200.00	2,176.32	2,161.69	2,158.66	8.69	7.46	-178.98	-61.56	6.97	320.37	305.22	15.15	21.150		
2,300.00	2,274.39	2,258.37	2,255.02	9.15	7.82	-178.04	-67.86	2.21	345.36	329.49	15.86	21.769		
2,400.00	2,372.45	2,355.05	2,351.38	9.62	8.18	-177.22	-74.16	-2.54	370.42	353.84	16.58	22.337		
2,500.00	2,470.52	2,451.73	2,447.74	10.09	8.54	-176.51	-80.46	-7.30	395.55	378.25	17.30	22.860		
2,600.00	2,568.59	2,548.41	2,544.10	10.56	8.90	-175.88	-86.76	-12.05	420.73	402.70	18.03	23.341		
2,700.00	2,666.65	2,645.10	2,640.46	11.03	9.27	-175.33	-93.06	-16.81	445.95	427.20	18.75	23.786		
2,800.00	2,764.72	2,741.78	2,736.82	11.50	9.63	-174.83	-99.37	-21.57	471.21	451.73	19.47	24.198		
2,900.00	2,862.78	2,838.46	2,833.18	11.97	9.99	-174.39	-105.67	-26.32	496.49	476.29	20.20	24.581		
3,000.00	2,960.85	2,935.14	2,929.53	12.45	10.36	-173.98	-111.97	-31.08	521.80	500.88	20.92	24.938		
3,100.00	3,058.91	3,031.82	3,025.89	12.92	10.72	-173.62	-118.27	-35.83	547.14	525.48	21.65	25.271		
3,200.00	3,156.98	3,128.50	3,122.25	13.39	11.09	-173.28	-124.57	-40.59	572.49	550.11	22.38	25.582		
3,300.00	3,255.05	3,225.19	3,218.61	13.87	11.45	-172.98	-130.87	-45.35	597.86	574.75	23.11	25.873		
3,400.00	3,353.11	3,321.87	3,314.97	14.34	11.82	-172.70	-137.17	-50.10	623.24	599.40	23.84	26.146		
3,500.00	3,451.18	3,418.55	3,411.33	14.82	12.19	-172.44	-143.47	-54.86	648.63	624.07	24.57	26.404		
3,600.00	3,549.24	3,515.23	3,507.69	15.29	12.56	-172.20	-149.77	-59.61	674.04	648.75	25.30	26.646		
3,700.00	3,647.31	3,611.91	3,604.05	15.77	12.92	-171.98	-156.07	-64.37	699.46	673.43	26.03	26.874		
3,800.00	3,745.37	3,708.59	3,700.41	16.24	13.29	-171.77	-162.37	-69.13	724.89	698.13	26.76	27.090		
3,900.00	3,843.44	3,805.28	3,796.76	16.72	13.66	-171.58	-168.67	-73.88	750.32	722.83	27.49	27.295		
4,000.00	3,941.50	3,901.96	3,893.12	17.19	14.03	-171.40	-174.98	-78.64	775.76	747.54	28.22	27.488		
4,100.00	4,039.57	4,001.36	3,989.48	17.67	14.41	-171.23	-181.28	-83.39	801.21	772.25	28.96	27.662		
4,200.00	4,137.64	4,104.68	4,085.84	18.15	14.80	-171.08	-187.58	-88.15	826.67	796.95	29.72	27.814		
4,300.00	4,235.70	4,208.00	4,182.20	18.62	15.20	-170.93	-193.88	-92.90	852.13	821.65	30.48	27.958		
4,400.00	4,333.77	4,288.69	4,278.56	19.10	15.51	-170.79	-200.18	-97.66	877.59	846.44	31.15	28.171		
4,500.00	4,431.83	4,385.37	4,374.92	19.58	15.88	-170.66	-206.48	-102.42	903.06	871.18	31.89	28.321		
4,600.00	4,529.90	4,482.05	4,471.28	20.05	16.25	-170.53	-212.78	-107.17	928.54	895.92	32.62	28.465		
4,700.00	4,627.96	4,578.73	4,567.64	20.53	16.62	-170.41	-219.08	-111.93	954.02	920.66	33.35	28.602		
4,800.00	4,726.03	4,675.41	4,663.99	21.01	16.99	-170.30	-225.38	-116.68	979.50	945.41	34.09	28.734		
4,900.00	4,824.10	4,772.09	4,760.35	21.48	17.36	-170.20	-231.68	-121.44	1,004.98	970.16	34.82	28.860		
5,000.00	4,922.16	4,868.78	4,856.71	21.96	17.73	-170.10	-237.98	-126.20	1,030.47	994.91	35.56	28.980		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,020.23	4,965.46	4,953.07	22.44	18.10	-170.00	-244.28	-130.95	1,055.96	1,019.67	36.29	29.095		
5,200.00	5,118.29	5,062.14	5,049.43	22.92	18.47	-169.91	-250.59	-135.71	1,081.46	1,044.43	37.03	29.206		
5,300.00	5,216.36	5,158.82	5,145.79	23.39	18.84	-169.82	-256.89	-140.46	1,106.95	1,069.19	37.76	29.313		
5,400.00	5,314.42	5,255.50	5,242.15	23.87	19.21	-169.74	-263.19	-145.22	1,132.45	1,093.95	38.50	29.415		
5,500.00	5,412.49	5,352.18	5,338.51	24.35	19.59	-169.66	-269.49	-149.97	1,157.95	1,118.71	39.24	29.513		
5,600.00	5,510.55	5,448.87	5,434.87	24.83	19.96	-169.58	-275.79	-154.73	1,183.45	1,143.48	39.97	29.608		
5,700.00	5,608.62	5,545.55	5,531.22	25.30	20.33	-169.51	-282.09	-159.49	1,208.96	1,168.25	40.71	29.699		
5,800.00	5,706.69	5,642.23	5,627.58	25.78	20.70	-169.44	-288.39	-164.24	1,234.46	1,193.02	41.44	29.786		
5,900.00	5,804.75	5,738.91	5,723.94	26.26	21.07	-169.37	-294.69	-169.00	1,259.97	1,217.79	42.18	29.871		
6,000.00	5,902.82	5,835.59	5,820.30	26.74	21.44	-169.31	-300.99	-173.75	1,285.48	1,242.56	42.92	29.953		
6,100.00	6,000.88	5,932.27	5,916.66	27.22	21.81	-169.25	-307.29	-178.51	1,310.99	1,267.34	43.65	30.032		
6,200.00	6,098.95	6,028.96	6,013.02	27.69	22.19	-169.19	-313.59	-183.27	1,336.50	1,292.11	44.39	30.108		
6,300.00	6,197.01	6,125.64	6,109.38	28.17	22.56	-169.13	-319.89	-188.02	1,362.02	1,316.89	45.13	30.181		
6,400.00	6,295.08	6,222.32	6,205.74	28.65	22.93	-169.07	-326.20	-192.78	1,387.53	1,341.67	45.87	30.252		
6,500.00	6,393.15	6,319.00	6,302.10	29.13	23.30	-169.02	-332.50	-197.53	1,413.05	1,366.44	46.60	30.321		
6,600.00	6,491.21	6,415.68	6,398.45	29.61	23.67	-168.97	-338.80	-202.29	1,438.56	1,391.22	47.34	30.388		
6,699.99	6,589.26	6,512.35	6,494.80	30.08	24.05	-168.92	-345.10	-207.04	1,464.08	1,416.00	48.08	30.452		
6,702.02	6,591.25	6,514.31	6,496.75	30.09	24.05	-168.92	-345.23	-207.14	1,464.60	1,416.50	48.09	30.454		
6,800.00	6,687.65	6,609.44	6,591.57	30.55	24.42	-168.95	-351.43	-211.82	1,488.01	1,439.19	48.81	30.483		
6,900.00	6,786.59	6,707.27	6,689.07	30.97	24.80	-168.95	-357.80	-216.63	1,508.60	1,459.05	49.55	30.449		
7,000.00	6,885.98	6,805.73	6,787.20	31.36	25.17	-168.90	-364.22	-221.48	1,525.82	1,475.55	50.27	30.351		
7,100.00	6,985.69	6,904.70	6,885.84	31.72	25.56	-168.83	-370.67	-226.34	1,539.68	1,488.68	50.99	30.194		
7,200.00	7,085.60	7,004.06	6,984.87	32.03	25.94	-168.71	-377.14	-231.23	1,550.14	1,498.43	51.71	29.979		
7,266.41	7,152.00	7,070.20	7,050.78	32.23	26.19	-179.80	-381.45	-234.49	1,555.21	1,503.03	52.18	29.807		
7,296.41	7,182.00	7,100.10	7,080.58	32.31	26.31	-179.86	-383.40	-235.96	1,557.16	1,504.77	52.39	29.724		
7,300.00	7,185.59	7,103.68	7,084.15	32.32	26.32	-90.36	-383.63	-236.13	1,557.40	1,504.98	52.41	29.714		
7,350.00	7,235.52	7,180.36	7,160.63	32.46	26.61	-90.09	-388.10	-239.51	1,560.37	1,507.42	52.95	29.471		
7,400.00	7,285.03	7,268.10	7,248.28	32.61	26.93	-90.27	-391.25	-241.88	1,562.19	1,508.65	53.53	29.182		
7,450.00	7,333.76	7,354.17	7,334.34	32.76	27.23	-90.87	-392.25	-242.63	1,562.89	1,508.80	54.08	28.899		
7,500.00	7,381.34	7,402.53	7,382.69	32.92	27.38	-91.37	-392.24	-242.97	1,563.19	1,508.77	54.43	28.722		
7,550.00	7,427.40	7,454.27	7,434.25	33.09	27.57	-91.92	-392.23	-247.08	1,563.67	1,508.85	54.82	28.525		
7,600.00	7,471.59	7,507.68	7,486.86	33.26	27.77	-92.46	-392.19	-256.18	1,564.29	1,509.05	55.24	28.316		
7,650.00	7,513.58	7,562.87	7,540.09	33.44	28.00	-93.00	-392.12	-270.68	1,565.05	1,509.34	55.71	28.093		
7,700.00	7,553.04	7,619.97	7,593.42	33.62	28.24	-93.52	-392.04	-291.00	1,565.92	1,509.70	56.22	27.855		
7,750.00	7,589.68	7,679.07	7,646.21	33.82	28.50	-94.03	-391.92	-317.52	1,566.88	1,510.10	56.78	27.598		
7,800.00	7,623.22	7,740.25	7,697.68	34.03	28.79	-94.51	-391.78	-350.53	1,567.89	1,510.50	57.39	27.318		
7,850.00	7,653.40	7,803.52	7,746.90	34.25	29.12	-94.97	-391.60	-390.25	1,568.92	1,510.83	58.09	27.009		
7,900.00	7,680.00	7,868.88	7,792.82	34.50	29.49	-95.38	-391.40	-436.71	1,569.92	1,511.04	58.88	26.663		
7,950.00	7,702.80	7,936.23	7,834.29	34.77	29.93	-95.75	-391.17	-489.72	1,570.86	1,511.07	59.78	26.276		
8,000.00	7,721.65	8,005.39	7,870.10	35.08	30.45	-96.07	-390.91	-548.84	1,571.68	1,510.86	60.82	25.843		
8,050.00	7,736.38	8,076.11	7,899.09	35.42	31.07	-96.32	-390.63	-613.29	1,572.35	1,510.35	62.00	25.359		
8,100.00	7,746.90	8,148.04	7,920.20	35.80	31.79	-96.49	-390.33	-682.01	1,572.84	1,509.50	63.33	24.834		
8,150.00	7,753.12	8,220.78	7,932.64	36.23	32.61	-96.59	-390.02	-753.62	1,573.11	1,508.29	64.82	24.269		
8,196.48	7,755.00	8,288.70	7,935.97	36.66	33.45	-96.61	-389.72	-821.42	1,573.15	1,506.86	66.30	23.729		
8,197.16	7,755.00	8,289.69	7,935.96	36.67	33.46	-96.61	-389.72	-822.41	1,573.15	1,506.83	66.32	23.721		
8,200.00	7,755.00	8,290.39	7,936.00	36.70	33.47	-96.61	-389.71	-823.12	1,573.16	1,506.79	66.36	23.706		
8,300.00	7,755.00	8,409.61	7,936.00	37.76	35.13	-96.61	-389.28	-923.11	1,573.16	1,503.75	69.41	22.666		
8,400.00	7,755.00	8,509.61	7,936.00	39.01	36.68	-96.61	-388.84	-1,023.11	1,573.16	1,500.69	72.48	21.706		
8,500.00	7,755.00	8,609.61	7,936.00	40.41	38.35	-96.61	-388.40	-1,123.11	1,573.16	1,497.37	75.80	20.755		
8,600.00	7,755.00	8,709.61	7,935.99	41.96	40.14	-96.61	-387.97	-1,223.11	1,573.17	1,493.82	79.34	19.827		
8,700.00	7,754.99	8,809.61	7,935.99	43.64	42.03	-96.61	-387.53	-1,323.11	1,573.17	1,490.09	83.08	18.935		
8,800.00	7,754.99	8,909.61	7,935.99	45.42	44.00	-96.61	-387.09	-1,423.11	1,573.17	1,486.18	86.99	18.085		

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 5-6-3
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 5-6-3	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	7,754.99	9,009.61	7,935.99	47.30	46.05	-96.61	-386.66	-1,523.11	1,573.17	1,482.13	91.04	17.280		
9,000.00	7,754.99	9,109.61	7,935.99	49.27	48.16	-96.61	-386.22	-1,623.11	1,573.18	1,477.96	95.22	16.521		
9,100.00	7,754.99	9,190.39	7,935.99	51.30	49.91	-96.61	-385.78	-1,723.11	1,573.18	1,474.09	99.09	15.876		
9,200.00	7,754.99	9,309.61	7,935.99	53.40	52.54	-96.61	-385.35	-1,823.11	1,573.18	1,469.28	103.90	15.141		
9,300.00	7,754.99	9,409.61	7,935.98	55.55	54.80	-96.61	-384.91	-1,923.10	1,573.18	1,464.80	108.38	14.515		
9,400.00	7,754.99	9,509.61	7,935.98	57.75	57.10	-96.61	-384.47	-2,023.10	1,573.19	1,460.25	112.93	13.930		
9,500.00	7,754.98	9,609.61	7,935.98	59.99	59.43	-96.61	-384.04	-2,123.10	1,573.19	1,455.64	117.55	13.383		
9,600.00	7,754.98	9,709.61	7,935.98	62.27	61.78	-96.61	-383.60	-2,223.10	1,573.19	1,450.96	122.23	12.871		
9,700.00	7,754.98	9,809.61	7,935.98	64.59	64.17	-96.61	-383.17	-2,323.10	1,573.19	1,446.23	126.96	12.391		
9,800.00	7,754.98	9,909.61	7,935.98	66.93	66.58	-96.61	-382.73	-2,423.10	1,573.20	1,441.45	131.74	11.941		
9,900.00	7,754.98	10,009.61	7,935.98	69.30	69.01	-96.61	-382.29	-2,523.10	1,573.20	1,436.64	136.56	11.520		
10,000.00	7,754.98	10,109.61	7,935.97	71.69	71.45	-96.61	-381.86	-2,623.10	1,573.20	1,431.78	141.42	11.124		
10,100.00	7,754.98	10,209.61	7,935.97	74.10	73.92	-96.61	-381.42	-2,723.10	1,573.20	1,426.89	146.32	10.752		
10,200.00	7,754.98	10,309.61	7,935.97	76.53	76.40	-96.61	-380.98	-2,823.10	1,573.21	1,421.97	151.24	10.402		
10,300.00	7,754.98	10,409.61	7,935.97	78.98	78.89	-96.61	-380.55	-2,923.10	1,573.21	1,417.02	156.19	10.072		
10,400.00	7,754.97	10,509.61	7,935.97	81.45	81.40	-96.61	-380.11	-3,023.09	1,573.21	1,412.04	161.17	9.761		
10,500.00	7,754.97	10,609.61	7,935.97	83.93	83.92	-96.61	-379.67	-3,123.09	1,573.22	1,407.05	166.17	9.468		
10,600.00	7,754.97	10,709.61	7,935.97	86.42	86.44	-96.61	-379.24	-3,223.09	1,573.22	1,402.03	171.19	9.190		
10,700.00	7,754.97	10,809.61	7,935.96	88.92	88.98	-96.61	-378.80	-3,323.09	1,573.22	1,396.99	176.23	8.927		
10,800.00	7,754.97	10,909.61	7,935.96	91.44	91.53	-96.61	-378.36	-3,423.09	1,573.22	1,391.93	181.29	8.678		
10,900.00	7,754.97	11,009.61	7,935.96	93.96	94.08	-96.61	-377.93	-3,523.09	1,573.23	1,386.86	186.36	8.442		
11,000.00	7,754.97	11,109.61	7,935.96	96.49	96.64	-96.61	-377.49	-3,623.09	1,573.23	1,381.77	191.45	8.217		
11,100.00	7,754.97	11,209.61	7,935.96	99.04	99.21	-96.61	-377.05	-3,723.09	1,573.23	1,376.67	196.56	8.004		
11,200.00	7,754.96	11,309.61	7,935.96	101.59	101.79	-96.61	-376.62	-3,823.09	1,573.23	1,371.56	201.67	7.801		
11,300.00	7,754.96	11,409.61	7,935.95	104.14	104.37	-96.61	-376.18	-3,923.09	1,573.24	1,366.44	206.80	7.608		
11,400.00	7,754.96	11,509.61	7,935.95	106.71	106.95	-96.61	-375.75	-4,023.08	1,573.24	1,361.30	211.94	7.423		
11,500.00	7,754.96	11,609.61	7,935.95	109.28	109.54	-96.61	-375.31	-4,123.08	1,573.24	1,356.15	217.09	7.247		
11,600.00	7,754.96	11,709.61	7,935.95	111.85	112.14	-96.61	-374.87	-4,223.08	1,573.24	1,351.00	222.24	7.079		
11,700.00	7,754.96	11,809.61	7,935.95	114.43	114.74	-96.61	-374.44	-4,323.08	1,573.25	1,345.83	227.41	6.918		
11,800.00	7,754.96	11,909.61	7,935.95	117.02	117.34	-96.61	-374.00	-4,423.08	1,573.25	1,340.66	232.59	6.764		
11,900.00	7,754.96	12,009.61	7,935.95	119.61	119.95	-96.61	-373.56	-4,523.08	1,573.25	1,335.48	237.77	6.617		
12,000.00	7,754.95	12,109.61	7,935.94	122.20	122.56	-96.61	-373.13	-4,623.08	1,573.25	1,330.29	242.96	6.475		
12,100.00	7,754.95	12,209.61	7,935.94	124.80	125.18	-96.61	-372.69	-4,723.08	1,573.26	1,325.10	248.16	6.340		
12,200.00	7,754.95	12,309.61	7,935.94	127.40	127.80	-96.61	-372.25	-4,823.08	1,573.26	1,319.90	253.36	6.210		
12,300.00	7,754.95	12,409.61	7,935.94	130.01	130.42	-96.61	-371.82	-4,923.08	1,573.26	1,314.69	258.57	6.085		
12,400.00	7,754.95	12,509.61	7,935.94	132.62	133.04	-96.61	-371.38	-5,023.08	1,573.26	1,309.48	263.78	5.964		
12,500.00	7,754.95	12,609.61	7,935.94	135.23	135.67	-96.61	-370.94	-5,123.07	1,573.27	1,304.27	269.00	5.849		
12,600.00	7,754.95	12,709.61	7,935.94	137.85	138.30	-96.61	-370.51	-5,223.07	1,573.27	1,299.04	274.23	5.737		
12,700.00	7,754.95	12,809.61	7,935.93	140.47	140.93	-96.61	-370.07	-5,323.07	1,573.27	1,293.82	279.45	5.630		
12,800.00	7,754.95	12,909.61	7,935.93	143.09	143.56	-96.61	-369.63	-5,423.07	1,573.27	1,288.59	284.69	5.526		
12,900.00	7,754.94	13,009.61	7,935.93	145.71	146.19	-96.61	-369.20	-5,523.07	1,573.28	1,283.35	289.93	5.426		
13,000.00	7,754.94	13,109.61	7,935.93	148.34	148.83	-96.61	-368.76	-5,623.07	1,573.28	1,278.11	295.17	5.330		
13,100.00	7,754.94	13,209.61	7,935.93	150.97	151.47	-96.61	-368.32	-5,723.07	1,573.28	1,272.87	300.41	5.237		
13,200.00	7,754.94	13,309.61	7,935.93	153.60	154.11	-96.61	-367.89	-5,823.07	1,573.28	1,267.62	305.66	5.147		
13,300.00	7,754.94	13,409.61	7,935.93	156.23	156.75	-96.61	-367.45	-5,923.07	1,573.29	1,262.37	310.91	5.060		
13,400.00	7,754.94	13,509.61	7,935.92	158.86	159.40	-96.61	-367.02	-6,023.07	1,573.29	1,257.12	316.17	4.976		
13,500.00	7,754.94	13,609.61	7,935.92	161.50	162.04	-96.61	-366.58	-6,123.06	1,573.29	1,251.86	321.43	4.895		
13,600.00	7,754.94	13,709.61	7,935.92	164.14	164.69	-96.61	-366.14	-6,223.06	1,573.29	1,246.60	326.69	4.816		
13,700.00	7,754.93	13,809.61	7,935.92	166.78	167.34	-96.61	-365.71	-6,323.06	1,573.30	1,241.34	331.96	4.739		
13,800.00	7,754.93	13,909.61	7,935.92	169.42	169.99	-96.61	-365.27	-6,423.06	1,573.30	1,236.08	337.22	4.665		
13,900.00	7,754.93	14,009.61	7,935.92	172.06	172.64	-96.61	-364.83	-6,523.06	1,573.30	1,230.81	342.49	4.594		
14,000.00	7,754.93	14,109.61	7,935.92	174.71	175.29	-96.61	-364.40	-6,623.06	1,573.30	1,225.54	347.76	4.524		

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 5-6-3
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 5-6-3	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	7,754.93	14,209.61	7,935.91	177.35	177.94	-96.61	-363.96	-6,723.06	1,573.31	1,220.27	353.04	4.456		
14,200.00	7,754.93	14,309.61	7,935.91	180.00	180.60	-96.61	-363.52	-6,823.06	1,573.31	1,215.00	358.31	4.391		
14,300.00	7,754.93	14,409.61	7,935.91	182.65	183.25	-96.61	-363.09	-6,923.06	1,573.31	1,209.72	363.59	4.327		
14,400.00	7,754.93	14,509.61	7,935.91	185.30	185.91	-96.61	-362.65	-7,023.06	1,573.31	1,204.44	368.87	4.265		
14,500.00	7,754.93	14,609.61	7,935.91	187.95	188.57	-96.61	-362.21	-7,123.06	1,573.32	1,199.16	374.16	4.205		
14,600.00	7,754.92	14,709.61	7,935.91	190.60	191.23	-96.61	-361.78	-7,223.05	1,573.32	1,193.88	379.44	4.146		
14,700.00	7,754.92	14,809.61	7,935.91	193.25	193.88	-96.61	-361.34	-7,323.05	1,573.32	1,188.60	384.73	4.089		
14,800.00	7,754.92	14,909.61	7,935.90	195.91	196.54	-96.61	-360.90	-7,423.05	1,573.33	1,183.31	390.01	4.034		
14,900.00	7,754.92	15,009.61	7,935.90	198.56	199.21	-96.61	-360.47	-7,523.05	1,573.33	1,178.02	395.30	3.980		
15,000.00	7,754.92	15,109.61	7,935.90	201.22	201.87	-96.61	-360.03	-7,623.05	1,573.33	1,172.74	400.59	3.927		
15,100.00	7,754.92	15,209.61	7,935.90	203.87	204.53	-96.61	-359.60	-7,723.05	1,573.33	1,167.45	405.89	3.876		
15,200.00	7,754.92	15,309.61	7,935.90	206.53	207.19	-96.61	-359.16	-7,823.05	1,573.34	1,162.15	411.18	3.826		
15,300.00	7,754.92	15,409.61	7,935.90	209.19	209.86	-96.61	-358.72	-7,923.05	1,573.34	1,156.86	416.48	3.778		
15,400.00	7,754.91	15,509.61	7,935.89	211.85	212.52	-96.61	-358.29	-8,023.05	1,573.34	1,151.57	421.77	3.730		
15,500.00	7,754.91	15,609.61	7,935.89	214.51	215.18	-96.61	-357.85	-8,123.05	1,573.34	1,146.27	427.07	3.684		
15,600.00	7,754.91	15,709.61	7,935.89	217.17	217.85	-96.61	-357.41	-8,223.04	1,573.35	1,140.98	432.37	3.639		
15,700.00	7,754.91	15,809.61	7,935.89	219.83	220.52	-96.61	-356.98	-8,323.04	1,573.35	1,135.68	437.67	3.595		
15,800.00	7,754.91	15,909.61	7,935.89	222.49	223.18	-96.61	-356.54	-8,423.04	1,573.35	1,130.38	442.97	3.552		
15,900.00	7,754.91	16,009.61	7,935.89	225.16	225.85	-96.61	-356.10	-8,523.04	1,573.35	1,125.08	448.27	3.510		
16,000.00	7,754.91	16,109.61	7,935.89	227.82	228.52	-96.61	-355.67	-8,623.04	1,573.36	1,119.78	453.58	3.469		
16,100.00	7,754.91	16,209.61	7,935.88	230.48	231.19	-96.61	-355.23	-8,723.04	1,573.36	1,114.48	458.88	3.429		
16,200.00	7,754.90	16,309.61	7,935.88	233.15	233.85	-96.61	-354.79	-8,823.04	1,573.36	1,109.17	464.19	3.389		
16,300.00	7,754.90	16,409.61	7,935.88	235.81	236.52	-96.61	-354.36	-8,923.04	1,573.36	1,103.87	469.49	3.351		
16,400.00	7,754.90	16,509.61	7,935.88	238.48	239.19	-96.61	-353.92	-9,023.04	1,573.37	1,098.56	474.80	3.314		
16,500.00	7,754.90	16,609.61	7,935.88	241.14	241.86	-96.61	-353.48	-9,123.04	1,573.37	1,093.26	480.11	3.277		
16,600.00	7,754.90	16,709.61	7,935.88	243.81	244.53	-96.61	-353.05	-9,223.04	1,573.37	1,087.95	485.42	3.241		
16,700.00	7,754.90	16,809.61	7,935.88	246.48	247.21	-96.61	-352.61	-9,323.03	1,573.37	1,082.64	490.73	3.206		
16,800.00	7,754.90	16,909.61	7,935.87	249.15	249.88	-96.61	-352.17	-9,423.03	1,573.38	1,077.34	496.04	3.172		
16,900.00	7,754.90	17,009.61	7,935.87	251.81	252.55	-96.61	-351.74	-9,523.03	1,573.38	1,072.03	501.35	3.138		
17,000.00	7,754.90	17,109.61	7,935.87	254.48	255.22	-96.60	-351.30	-9,623.03	1,573.38	1,066.72	506.67	3.105		
17,100.00	7,754.89	17,209.61	7,935.87	257.15	257.89	-96.60	-350.87	-9,723.03	1,573.38	1,061.41	511.98	3.073		
17,200.00	7,754.89	17,309.61	7,935.87	259.82	260.57	-96.60	-350.43	-9,823.03	1,573.39	1,056.09	517.29	3.042		
17,300.00	7,754.89	17,409.61	7,935.87	262.49	263.24	-96.60	-349.99	-9,923.03	1,573.39	1,050.78	522.61	3.011		
17,400.00	7,754.89	17,509.61	7,935.87	265.16	265.91	-96.60	-349.56	-10,023.03	1,573.39	1,045.47	527.92	2.980		
17,500.00	7,754.89	17,609.61	7,935.86	267.83	268.59	-96.60	-349.12	-10,123.03	1,573.39	1,040.16	533.24	2.951		
17,600.00	7,754.89	17,709.61	7,935.86	270.50	271.26	-96.60	-348.68	-10,223.03	1,573.40	1,034.84	538.56	2.922		
17,700.00	7,754.89	17,809.61	7,935.86	273.17	273.93	-96.60	-348.25	-10,323.02	1,573.40	1,029.53	543.87	2.893		
17,800.00	7,754.89	17,909.61	7,935.86	275.85	276.10	-96.60	-347.81	-10,423.02	1,573.40	1,024.22	548.68	2.868		
17,877.67	7,754.88	17,967.41	7,936.00	277.92	278.16	-96.61	-347.49	-10,500.04	1,573.43	1,020.65	552.78	2.846		
17,879.50	7,755.00	17,969.25	7,936.00	277.97	278.20	-96.61	-347.48	-10,501.88	1,573.17	1,020.28	552.89	2.845 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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 5-6-8 - ORIGINAL WELLBORE - PROPOSAL 1													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	70.31	70.31					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	70.31	70.31	70.04	0.27	261.526		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	70.31	70.31	69.33	0.99	71.325		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	70.31	70.31	68.61	1.70	41.294		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	70.31	70.31	67.89	2.42	29.058		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	70.31	70.31	67.18	3.14	22.417		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	70.31	70.31	66.46	3.85	18.246 CC		
700.00	699.98	700.02	699.98	2.29	2.29	102.96	0.00	70.31	70.68	66.11	4.57	15.467 ES		
800.00	799.84	800.16	799.84	2.65	2.64	106.98	0.00	70.31	72.04	66.75	5.29	13.625		
900.00	899.45	899.45	899.45	3.01	3.00	113.28	0.00	70.31	75.05	69.05	6.01	12.497		
1,000.00	998.70	998.75	998.73	3.38	3.34	122.32	-1.58	69.68	80.63	73.92	6.71	12.010		
1,100.00	1,097.47	1,096.44	1,096.28	3.77	3.66	133.61	-6.26	67.83	90.85	83.44	7.41	12.260		
1,164.39	1,160.75	1,158.20	1,157.85	4.03	3.87	140.98	-10.81	66.03	100.98	93.12	7.86	12.848		
1,200.00	1,195.67	1,191.96	1,191.46	4.18	3.99	144.89	-13.82	64.83	107.78	99.67	8.10	13.298		
1,300.00	1,293.73	1,285.61	1,284.45	4.60	4.31	154.30	-24.09	60.76	130.16	121.39	8.78	14.830		
1,400.00	1,391.80	1,379.96	1,377.87	5.04	4.66	161.61	-36.36	55.89	156.40	146.95	9.45	16.547		
1,500.00	1,489.86	1,474.75	1,471.72	5.48	5.01	166.86	-48.74	50.98	184.43	174.30	10.13	18.198		
1,600.00	1,587.93	1,569.54	1,565.57	5.93	5.38	170.73	-61.13	46.07	213.54	202.72	10.82	19.730		
1,700.00	1,686.00	1,664.33	1,659.42	6.38	5.75	173.67	-73.51	41.16	243.34	231.83	11.52	21.129		
1,800.00	1,784.06	1,759.12	1,753.27	6.84	6.12	175.98	-85.89	36.25	273.60	261.39	12.22	22.399		
1,900.00	1,882.13	1,853.91	1,847.12	7.30	6.50	177.83	-98.28	31.34	304.19	291.28	12.92	23.550		
2,000.00	1,980.19	1,948.70	1,940.97	7.76	6.88	179.34	-110.66	26.43	335.02	321.39	13.62	24.594		
2,100.00	2,078.26	2,043.49	2,034.82	8.22	7.27	-179.41	-123.05	21.52	366.02	351.69	14.33	25.543		
2,200.00	2,176.32	2,138.28	2,128.67	8.69	7.66	-178.34	-135.43	16.61	397.15	382.11	15.04	26.407		
2,300.00	2,274.39	2,233.07	2,222.52	9.15	8.05	-177.44	-147.81	11.70	428.39	412.64	15.75	27.196		
2,400.00	2,372.45	2,327.87	2,316.37	9.62	8.44	-176.65	-160.20	6.79	459.72	443.25	16.47	27.919		
2,500.00	2,470.52	2,422.66	2,410.22	10.09	8.84	-175.97	-172.58	1.88	491.11	473.93	17.18	28.583		
2,600.00	2,568.59	2,517.45	2,504.07	10.56	9.23	-175.36	-184.96	-3.03	522.56	504.66	17.90	29.194		
2,700.00	2,666.65	2,612.24	2,597.92	11.03	9.63	-174.83	-197.35	-7.94	554.06	535.44	18.62	29.759		
2,800.00	2,764.72	2,707.03	2,691.77	11.50	10.03	-174.35	-209.73	-12.85	585.59	566.25	19.34	30.283		
2,900.00	2,862.78	2,801.82	2,785.62	11.97	10.43	-173.92	-222.11	-17.76	617.16	597.10	20.06	30.768		
3,000.00	2,960.85	2,896.61	2,879.47	12.45	10.83	-173.54	-234.50	-22.67	648.76	627.98	20.78	31.221		
3,100.00	3,058.91	2,991.40	2,973.32	12.92	11.23	-173.19	-246.88	-27.58	680.37	658.87	21.50	31.642		
3,200.00	3,156.98	3,086.19	3,067.17	13.39	11.63	-172.87	-259.27	-32.49	712.02	689.79	22.23	32.036		
3,300.00	3,255.05	3,180.98	3,161.02	13.87	12.03	-172.57	-271.65	-37.40	743.67	720.73	22.95	32.405		
3,400.00	3,353.11	3,275.77	3,254.87	14.34	12.44	-172.31	-284.03	-42.31	775.35	751.68	23.67	32.752		
3,500.00	3,451.18	3,370.56	3,348.72	14.82	12.84	-172.06	-296.42	-47.22	807.04	782.64	24.40	33.077		
3,600.00	3,549.24	3,465.35	3,442.57	15.29	13.24	-171.83	-308.80	-52.13	838.74	813.62	25.12	33.384		
3,700.00	3,647.31	3,560.14	3,536.42	15.77	13.65	-171.62	-321.18	-57.05	870.45	844.60	25.85	33.673		
3,800.00	3,745.37	3,654.94	3,630.27	16.24	14.05	-171.42	-333.57	-61.96	902.18	875.60	26.58	33.946		
3,900.00	3,843.44	3,749.73	3,724.12	16.72	14.46	-171.24	-345.95	-66.87	933.91	906.60	27.30	34.204		
4,000.00	3,941.50	3,844.52	3,817.97	17.19	14.86	-171.06	-358.33	-71.78	965.65	937.62	28.03	34.449		
4,100.00	4,039.57	3,939.31	3,911.82	17.67	15.27	-170.90	-370.72	-76.69	997.39	968.64	28.76	34.681		
4,200.00	4,137.64	4,034.10	4,005.67	18.15	15.67	-170.75	-383.10	-81.60	1,029.15	999.66	29.49	34.901		
4,300.00	4,235.70	4,128.89	4,099.52	18.62	16.08	-170.61	-395.49	-86.51	1,060.91	1,030.69	30.22	35.111		
4,400.00	4,333.77	4,223.68	4,193.37	19.10	16.49	-170.48	-407.87	-91.42	1,092.67	1,061.73	30.94	35.311		
4,500.00	4,431.83	4,318.47	4,287.21	19.58	16.89	-170.35	-420.25	-96.33	1,124.44	1,092.77	31.67	35.501		
4,600.00	4,529.90	4,413.26	4,381.06	20.05	17.30	-170.23	-432.64	-101.24	1,156.22	1,123.82	32.40	35.682		
4,700.00	4,627.96	4,508.05	4,474.91	20.53	17.71	-170.12	-445.02	-106.15	1,188.00	1,154.87	33.13	35.855		
4,800.00	4,726.03	4,602.84	4,568.76	21.01	18.12	-170.01	-457.40	-111.06	1,219.78	1,185.92	33.86	36.021		
4,900.00	4,824.10	4,697.63	4,662.61	21.48	18.52	-169.91	-469.79	-115.97	1,251.57	1,216.98	34.59	36.180		
5,000.00	4,922.16	4,807.58	4,756.46	21.96	19.00	-169.81	-482.17	-120.88	1,283.36	1,247.98	35.38	36.272		

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 5-6-3
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 5-6-3	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 5-6-8 - ORIGINAL WELLBORE - PROPOSAL 1													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		
5,100.00	5,020.23	4,887.21	4,850.31	22.44	19.34	-169.72	-494.55	-125.79	1,315.15	1,279.10	36.05	36.477		
5,200.00	5,118.29	4,982.01	4,944.16	22.92	19.75	-169.63	-506.94	-130.70	1,346.95	1,310.16	36.79	36.616		
5,300.00	5,216.36	5,076.80	5,038.01	23.39	20.15	-169.55	-519.32	-135.61	1,378.75	1,341.23	37.52	36.750		
5,400.00	5,314.42	5,171.59	5,131.86	23.87	20.56	-169.47	-531.70	-140.52	1,410.55	1,372.30	38.25	36.879		
5,500.00	5,412.49	5,266.38	5,225.71	24.35	20.97	-169.39	-544.09	-145.43	1,442.35	1,403.37	38.98	37.002		
5,600.00	5,510.55	5,361.17	5,319.56	24.83	21.38	-169.32	-556.47	-150.34	1,474.16	1,434.45	39.71	37.121		
5,700.00	5,608.62	5,455.96	5,413.41	25.30	21.79	-169.25	-568.86	-155.25	1,505.97	1,465.52	40.44	37.236		
5,800.00	5,706.69	5,550.75	5,507.26	25.78	22.20	-169.19	-581.24	-160.16	1,537.78	1,496.60	41.18	37.346		
5,900.00	5,804.75	5,645.54	5,601.11	26.26	22.60	-169.12	-593.62	-165.07	1,569.59	1,527.68	41.91	37.453		
6,000.00	5,902.82	5,740.33	5,694.96	26.74	23.01	-169.06	-606.01	-169.98	1,601.40	1,558.76	42.64	37.555		
6,100.00	6,000.88	5,835.12	5,788.81	27.22	23.42	-169.00	-618.39	-174.89	1,633.22	1,589.84	43.37	37.654		
6,200.00	6,098.95	5,929.91	5,882.66	27.69	23.83	-168.94	-630.77	-179.81	1,665.03	1,620.93	44.11	37.749		
6,300.00	6,197.01	6,024.70	5,976.51	28.17	24.24	-168.89	-643.16	-184.72	1,696.85	1,652.01	44.84	37.842		
6,400.00	6,295.08	6,119.49	6,070.36	28.65	24.65	-168.84	-655.54	-189.63	1,728.67	1,683.10	45.57	37.931		
6,500.00	6,393.15	6,214.28	6,164.21	29.13	25.06	-168.78	-667.92	-194.54	1,760.49	1,714.19	46.31	38.017		
6,600.00	6,491.21	6,309.08	6,258.06	29.61	25.47	-168.74	-680.31	-199.45	1,792.32	1,745.27	47.04	38.100		
6,699.99	6,589.26	6,403.85	6,351.90	30.08	25.88	-168.69	-692.69	-204.36	1,824.13	1,776.36	47.78	38.181		
6,702.02	6,591.25	6,405.78	6,353.80	30.09	25.88	-168.69	-692.94	-204.46	1,824.78	1,776.99	47.79	38.183		
6,800.00	6,687.65	6,499.16	6,446.26	30.55	26.29	-168.75	-705.14	-209.29	1,854.40	1,805.89	48.51	38.228		
6,900.00	6,786.59	6,604.59	6,541.56	30.97	26.74	-168.79	-717.72	-214.28	1,881.38	1,832.11	49.27	38.183		
7,000.00	6,885.98	6,707.49	6,637.70	31.36	27.19	-168.78	-730.40	-219.31	1,905.06	1,855.04	50.02	38.086		
7,100.00	6,985.69	6,809.65	6,734.56	31.72	27.63	-168.75	-743.18	-224.38	1,925.40	1,874.64	50.76	37.933		
7,200.00	7,085.60	6,888.79	6,832.03	32.03	27.97	-168.69	-756.04	-229.48	1,942.39	1,890.99	51.40	37.790		
7,266.41	7,152.00	6,978.22	6,920.61	32.23	28.35	-179.83	-767.50	-234.02	1,951.72	1,899.68	52.04	37.504		
7,296.41	7,182.00	7,059.64	7,001.49	32.31	28.68	-179.93	-776.09	-237.43	1,954.89	1,902.29	52.60	37.166		
7,300.00	7,185.59	7,069.42	7,011.23	32.32	28.72	-90.28	-776.97	-237.78	1,955.21	1,902.55	52.66	37.127		
7,350.00	7,235.52	7,206.05	7,147.49	32.46	29.24	-90.03	-786.14	-241.41	1,958.58	1,905.07	53.51	36.602		
7,400.00	7,285.03	7,341.96	7,283.34	32.61	29.68	-90.42	-789.25	-242.65	1,959.75	1,905.50	54.26	36.121		
7,450.00	7,333.76	7,393.21	7,334.59	32.76	29.83	-90.74	-789.25	-242.95	1,959.87	1,905.26	54.61	35.890		
7,500.00	7,381.34	7,444.68	7,385.89	32.92	30.00	-91.07	-789.23	-246.92	1,960.05	1,905.07	54.99	35.646		
7,550.00	7,427.40	7,497.31	7,437.75	33.09	30.18	-91.39	-789.19	-255.73	1,960.31	1,904.91	55.40	35.388		
7,600.00	7,471.59	7,551.15	7,489.76	33.26	30.38	-91.71	-789.14	-269.63	1,960.62	1,904.79	55.83	35.115		
7,650.00	7,513.58	7,606.26	7,541.39	33.44	30.59	-92.02	-789.05	-288.83	1,960.98	1,904.67	56.31	34.826		
7,700.00	7,553.04	7,662.66	7,592.07	33.62	30.81	-92.32	-788.95	-313.53	1,961.38	1,904.56	56.82	34.517		
7,750.00	7,589.68	7,720.37	7,641.15	33.82	31.05	-92.61	-788.82	-343.83	1,961.81	1,904.42	57.39	34.185		
7,800.00	7,623.22	7,779.36	7,687.92	34.03	31.31	-92.87	-788.66	-379.75	1,962.25	1,904.24	58.01	33.823		
7,850.00	7,653.40	7,839.61	7,731.61	34.25	31.59	-93.12	-788.49	-421.19	1,962.69	1,903.97	58.72	33.427		
7,900.00	7,680.00	7,901.04	7,771.44	34.50	31.91	-93.33	-788.29	-467.93	1,963.10	1,903.60	59.50	32.991		
7,950.00	7,702.80	7,963.56	7,806.59	34.77	32.26	-93.52	-788.07	-519.58	1,963.48	1,903.07	60.41	32.505		
8,000.00	7,721.65	8,027.02	7,836.30	35.08	32.67	-93.67	-787.83	-575.62	1,963.80	1,902.38	61.42	31.972		
8,050.00	7,736.38	8,091.25	7,859.89	35.42	33.15	-93.79	-787.57	-635.33	1,964.06	1,901.50	62.56	31.395		
8,100.00	7,746.90	8,156.06	7,876.76	35.80	33.71	-93.87	-787.30	-697.86	1,964.24	1,900.41	63.82	30.777		
8,150.00	7,753.12	8,221.21	7,886.51	36.23	34.35	-93.91	-787.03	-762.25	1,964.33	1,899.13	65.20	30.128		
8,196.48	7,755.00	8,280.21	7,889.00	36.66	34.99	-93.91	-786.77	-821.16	1,964.33	1,897.80	66.54	29.523		
8,200.00	7,755.00	8,283.73	7,889.00	36.70	35.03	-93.91	-786.76	-824.68	1,964.33	1,897.71	66.63	29.482		
8,300.00	7,755.00	8,383.73	7,889.00	37.76	36.27	-93.91	-786.33	-924.68	1,964.35	1,894.95	69.40	28.306		
8,400.00	7,755.00	8,483.73	7,889.00	39.01	37.68	-93.91	-785.90	-1,024.69	1,964.36	1,891.90	72.45	27.113		
8,500.00	7,755.00	8,583.74	7,889.00	40.41	39.23	-93.91	-785.47	-1,124.69	1,964.37	1,888.60	75.76	25.928		
8,600.00	7,755.00	8,683.74	7,889.00	41.96	40.92	-93.91	-785.05	-1,224.69	1,964.38	1,885.08	79.30	24.772		
8,700.00	7,754.99	8,783.74	7,888.99	43.64	42.71	-93.91	-784.62	-1,324.69	1,964.39	1,881.35	83.03	23.658		
8,800.00	7,754.99	8,883.75	7,888.99	45.42	44.61	-93.91	-784.19	-1,424.70	1,964.40	1,877.46	86.94	22.595		
8,900.00	7,754.99	8,983.75	7,888.99	47.30	46.58	-93.91	-783.76	-1,524.70	1,964.41	1,873.41	90.99	21.588		

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 5-6-3
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 5-6-3	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 5-6-8 - ORIGINAL WELLBORE - PROPOSAL 1													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		
9,000.00	7,754.99	9,083.75	7,888.99	49.27	48.63	-93.91	-783.33	-1,624.70	1,964.42	1,869.24	95.18	20.639		
9,100.00	7,754.99	9,183.76	7,888.99	51.30	50.75	-93.91	-782.90	-1,724.70	1,964.43	1,864.95	99.48	19.748		
9,200.00	7,754.99	9,283.76	7,888.99	53.40	52.91	-93.91	-782.47	-1,824.71	1,964.44	1,860.56	103.87	18.912		
9,300.00	7,754.99	9,383.76	7,888.99	55.55	55.13	-93.91	-782.04	-1,924.71	1,964.44	1,856.08	108.36	18.129		
9,400.00	7,754.99	9,483.77	7,888.99	57.75	57.38	-93.91	-781.61	-2,024.71	1,964.45	1,851.53	112.92	17.396		
9,500.00	7,754.98	9,583.77	7,888.99	59.99	59.68	-93.91	-781.18	-2,124.71	1,964.46	1,846.91	117.55	16.711		
9,600.00	7,754.98	9,683.77	7,888.98	62.27	62.00	-93.91	-780.75	-2,224.72	1,964.47	1,842.22	122.25	16.070		
9,700.00	7,754.98	9,783.78	7,888.98	64.59	64.36	-93.91	-780.32	-2,324.72	1,964.48	1,837.49	126.99	15.469		
9,800.00	7,754.98	9,883.78	7,888.98	66.93	66.74	-93.91	-779.89	-2,424.72	1,964.49	1,832.70	131.78	14.907		
9,900.00	7,754.98	9,983.78	7,888.98	69.30	69.15	-93.91	-779.46	-2,524.72	1,964.50	1,827.88	136.62	14.379		
10,000.00	7,754.98	10,083.78	7,888.98	71.69	71.57	-93.91	-779.02	-2,624.73	1,964.50	1,823.01	141.49	13.884		
10,100.00	7,754.98	10,183.79	7,888.98	74.10	74.01	-93.91	-778.59	-2,724.73	1,964.51	1,818.11	146.40	13.418		
10,200.00	7,754.98	10,283.79	7,888.98	76.53	76.48	-93.91	-778.16	-2,824.73	1,964.52	1,813.18	151.34	12.981		
10,300.00	7,754.98	10,383.79	7,888.98	78.98	78.95	-93.91	-777.73	-2,924.73	1,964.53	1,808.21	156.31	12.568		
10,400.00	7,754.97	10,483.80	7,888.98	81.45	81.44	-93.91	-777.30	-3,024.73	1,964.53	1,803.23	161.31	12.179		
10,500.00	7,754.97	10,583.80	7,888.98	83.93	83.94	-93.91	-776.87	-3,124.74	1,964.54	1,798.22	166.32	11.812		
10,600.00	7,754.97	10,683.80	7,888.98	86.42	86.46	-93.91	-776.43	-3,224.74	1,964.55	1,793.19	171.36	11.464		
10,700.00	7,754.97	10,783.81	7,888.98	88.92	88.98	-93.91	-776.00	-3,324.74	1,964.56	1,788.13	176.42	11.136		
10,800.00	7,754.97	10,883.81	7,888.98	91.44	91.52	-93.91	-775.57	-3,424.74	1,964.56	1,783.07	181.50	10.824		
10,900.00	7,754.97	10,983.81	7,888.97	93.96	94.06	-93.91	-775.14	-3,524.75	1,964.57	1,777.98	186.59	10.529		
11,000.00	7,754.97	11,083.82	7,888.97	96.49	96.61	-93.91	-774.70	-3,624.75	1,964.57	1,772.88	191.70	10.248		
11,100.00	7,754.97	11,183.82	7,888.97	99.04	99.17	-93.91	-774.27	-3,724.75	1,964.58	1,767.76	196.82	9.982		
11,200.00	7,754.96	11,283.82	7,888.97	101.59	101.73	-93.91	-773.84	-3,824.75	1,964.59	1,762.63	201.95	9.728		
11,300.00	7,754.96	11,383.83	7,888.97	104.14	104.30	-93.91	-773.40	-3,924.76	1,964.59	1,757.49	207.10	9.486		
11,400.00	7,754.96	11,483.83	7,888.97	106.71	106.88	-93.91	-772.97	-4,024.76	1,964.60	1,752.34	212.26	9.256		
11,500.00	7,754.96	11,583.83	7,888.97	109.28	109.46	-93.91	-772.54	-4,124.76	1,964.60	1,747.18	217.42	9.036		
11,600.00	7,754.96	11,683.84	7,888.97	111.85	112.05	-93.91	-772.10	-4,224.76	1,964.61	1,742.01	222.60	8.826		
11,700.00	7,754.96	11,783.84	7,888.97	114.43	114.64	-93.91	-771.67	-4,324.77	1,964.61	1,736.83	227.79	8.625		
11,800.00	7,754.96	11,883.84	7,888.97	117.02	117.24	-93.91	-771.24	-4,424.77	1,964.62	1,731.64	232.98	8.433		
11,900.00	7,754.96	11,983.85	7,888.97	119.61	119.84	-93.91	-770.80	-4,524.77	1,964.62	1,726.44	238.18	8.248		
12,000.00	7,754.95	12,083.85	7,888.97	122.20	122.45	-93.91	-770.37	-4,624.77	1,964.63	1,721.24	243.39	8.072		
12,100.00	7,754.95	12,183.85	7,888.97	124.80	125.05	-93.91	-769.93	-4,724.77	1,964.63	1,716.02	248.61	7.903		
12,200.00	7,754.95	12,283.86	7,888.97	127.40	127.67	-93.91	-769.50	-4,824.78	1,964.64	1,710.81	253.83	7.740		
12,300.00	7,754.95	12,383.86	7,888.97	130.01	130.28	-93.91	-769.06	-4,924.78	1,964.64	1,705.58	259.06	7.584		
12,400.00	7,754.95	12,483.86	7,888.97	132.62	132.90	-93.91	-768.63	-5,024.78	1,964.65	1,700.35	264.29	7.434		
12,500.00	7,754.95	12,583.87	7,888.97	135.23	135.52	-93.91	-768.19	-5,124.78	1,964.65	1,695.12	269.53	7.289		
12,600.00	7,754.95	12,683.87	7,888.97	137.85	138.14	-93.91	-767.76	-5,224.79	1,964.65	1,689.88	274.78	7.150		
12,700.00	7,754.95	12,783.87	7,888.97	140.47	140.77	-93.91	-767.32	-5,324.79	1,964.66	1,684.63	280.03	7.016		
12,800.00	7,754.95	12,883.88	7,888.97	143.09	143.40	-93.91	-766.88	-5,424.79	1,964.66	1,679.38	285.28	6.887		
12,900.00	7,754.94	12,983.88	7,888.97	145.71	146.03	-93.91	-766.45	-5,524.79	1,964.66	1,674.13	290.54	6.762		
13,000.00	7,754.94	13,083.88	7,888.97	148.34	148.66	-93.91	-766.01	-5,624.80	1,964.67	1,668.87	295.80	6.642		
13,100.00	7,754.94	13,183.89	7,888.97	150.97	151.30	-93.91	-765.58	-5,724.80	1,964.67	1,663.60	301.06	6.526		
13,200.00	7,754.94	13,283.89	7,888.97	153.60	153.93	-93.91	-765.14	-5,824.80	1,964.67	1,658.34	306.33	6.414		
13,300.00	7,754.94	13,383.89	7,888.97	156.23	156.57	-93.91	-764.70	-5,924.80	1,964.67	1,653.07	311.61	6.305		
13,400.00	7,754.94	13,483.90	7,888.97	158.86	159.21	-93.91	-764.27	-6,024.81	1,964.68	1,647.79	316.88	6.200		
13,500.00	7,754.94	13,583.90	7,888.97	161.50	161.86	-93.91	-763.83	-6,124.81	1,964.68	1,642.52	322.16	6.098		
13,600.00	7,754.94	13,683.90	7,888.97	164.14	164.50	-93.91	-763.39	-6,224.81	1,964.68	1,637.24	327.44	6.000		
13,700.00	7,754.93	13,783.91	7,888.97	166.78	167.14	-93.91	-762.95	-6,324.81	1,964.68	1,631.96	332.73	5.905		
13,800.00	7,754.93	13,883.91	7,888.97	169.42	169.79	-93.91	-762.52	-6,424.81	1,964.68	1,626.67	338.01	5.812		
13,900.00	7,754.93	13,983.91	7,888.97	172.06	172.44	-93.91	-762.08	-6,524.82	1,964.68	1,621.38	343.30	5.723		
14,000.00	7,754.93	14,083.92	7,888.97	174.71	175.09	-93.91	-761.64	-6,624.82	1,964.69	1,616.09	348.60	5.636		
14,100.00	7,754.93	14,183.92	7,888.97	177.35	177.74	-93.91	-761.20	-6,724.82	1,964.69	1,610.80	353.89	5.552		

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 5-6-3
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 5-6-3	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		
14,200.00	7,754.93	14,283.92	7,888.97	180.00	180.39	-93.91	-760.76	-6,824.82	1,964.69	1,605.50	359.19	5.470		
14,300.00	7,754.93	14,383.93	7,888.97	182.65	183.04	-93.91	-760.33	-6,924.83	1,964.69	1,600.20	364.49	5.390		
14,400.00	7,754.93	14,483.93	7,888.97	185.30	185.70	-93.91	-759.89	-7,024.83	1,964.69	1,594.90	369.79	5.313		
14,500.00	7,754.93	14,583.93	7,888.97	187.95	188.35	-93.91	-759.45	-7,124.83	1,964.69	1,589.60	375.09	5.238		
14,600.00	7,754.92	14,683.94	7,888.97	190.60	191.01	-93.91	-759.01	-7,224.83	1,964.69	1,584.30	380.39	5.165		
14,700.00	7,754.92	14,783.94	7,888.97	193.25	193.66	-93.91	-758.57	-7,324.84	1,964.69	1,578.99	385.70	5.094		
14,800.00	7,754.92	14,883.94	7,888.97	195.91	196.32	-93.91	-758.13	-7,424.84	1,964.69	1,573.68	391.01	5.025		
14,900.00	7,754.92	14,983.95	7,888.97	198.56	198.98	-93.91	-757.69	-7,524.84	1,964.69	1,568.37	396.32	4.957		
15,000.00	7,754.92	15,083.95	7,888.97	201.22	201.64	-93.91	-757.25	-7,624.84	1,964.69	1,563.06	401.63	4.892		
15,100.00	7,754.92	15,183.95	7,888.97	203.87	204.30	-93.91	-756.81	-7,724.85	1,964.69	1,557.75	406.94	4.828		
15,200.00	7,754.92	15,283.96	7,888.97	206.53	206.96	-93.91	-756.37	-7,824.85	1,964.69	1,552.43	412.26	4.766		
15,300.00	7,754.92	15,383.96	7,888.98	209.19	209.62	-93.91	-755.93	-7,924.85	1,964.69	1,547.12	417.57	4.705		
15,400.00	7,754.91	15,483.96	7,888.98	211.85	212.28	-93.91	-755.49	-8,024.85	1,964.69	1,541.80	422.89	4.646		
15,500.00	7,754.91	15,583.97	7,888.98	214.51	214.95	-93.91	-755.05	-8,124.85	1,964.69	1,536.48	428.21	4.588		
15,600.00	7,754.91	15,683.97	7,888.98	217.17	217.61	-93.91	-754.61	-8,224.86	1,964.68	1,531.16	433.53	4.532		
15,700.00	7,754.91	15,783.97	7,888.98	219.83	220.28	-93.91	-754.17	-8,324.86	1,964.68	1,525.84	438.85	4.477		
15,800.00	7,754.91	15,883.98	7,888.98	222.49	222.94	-93.91	-753.73	-8,424.86	1,964.68	1,520.51	444.17	4.423		
15,900.00	7,754.91	15,983.98	7,888.98	225.16	225.61	-93.91	-753.29	-8,524.86	1,964.68	1,515.19	449.49	4.371		
16,000.00	7,754.91	16,083.98	7,888.98	227.82	228.27	-93.91	-752.85	-8,624.87	1,964.68	1,509.86	454.82	4.320		
16,100.00	7,754.91	16,183.99	7,888.98	230.48	230.94	-93.91	-752.41	-8,724.87	1,964.67	1,504.53	460.14	4.270		
16,200.00	7,754.90	16,283.99	7,888.98	233.15	233.61	-93.91	-751.96	-8,824.87	1,964.67	1,499.20	465.47	4.221		
16,300.00	7,754.90	16,383.99	7,888.98	235.81	236.27	-93.91	-751.52	-8,924.87	1,964.67	1,493.87	470.79	4.173		
16,400.00	7,754.90	16,484.00	7,888.98	238.48	238.94	-93.91	-751.08	-9,024.88	1,964.67	1,488.54	476.12	4.126		
16,500.00	7,754.90	16,584.00	7,888.98	241.14	241.61	-93.91	-750.64	-9,124.88	1,964.66	1,483.21	481.45	4.081		
16,600.00	7,754.90	16,684.00	7,888.99	243.81	244.28	-93.91	-750.20	-9,224.88	1,964.66	1,477.88	486.78	4.036		
16,700.00	7,754.90	16,784.01	7,888.99	246.48	246.95	-93.91	-749.75	-9,324.88	1,964.66	1,472.55	492.11	3.992		
16,800.00	7,754.90	16,884.01	7,888.99	249.15	249.62	-93.91	-749.31	-9,424.88	1,964.65	1,467.21	497.44	3.950		
16,900.00	7,754.90	16,984.01	7,888.99	251.81	252.29	-93.91	-748.87	-9,524.89	1,964.65	1,461.87	502.78	3.908		
17,000.00	7,754.90	17,084.02	7,888.99	254.48	254.96	-93.91	-748.42	-9,624.89	1,964.65	1,456.54	508.11	3.867		
17,100.00	7,754.89	17,184.02	7,888.99	257.15	257.63	-93.91	-747.98	-9,724.89	1,964.64	1,451.20	513.44	3.826		
17,200.00	7,754.89	17,284.02	7,888.99	259.82	260.30	-93.91	-747.54	-9,824.89	1,964.64	1,445.86	518.78	3.787		
17,300.00	7,754.89	17,384.03	7,888.99	262.49	262.98	-93.91	-747.09	-9,924.90	1,964.63	1,440.52	524.11	3.749		
17,400.00	7,754.89	17,484.03	7,888.99	265.16	265.65	-93.91	-746.65	-10,024.90	1,964.63	1,435.18	529.45	3.711		
17,500.00	7,754.89	17,584.03	7,889.00	267.83	268.32	-93.91	-746.21	-10,124.90	1,964.63	1,429.84	534.78	3.674		
17,600.00	7,754.89	17,684.04	7,889.00	270.50	270.99	-93.91	-745.76	-10,224.90	1,964.62	1,424.50	540.12	3.637		
17,700.00	7,754.89	17,784.04	7,889.00	273.17	273.67	-93.91	-745.32	-10,324.91	1,964.62	1,419.16	545.46	3.602		
17,800.00	7,754.89	17,884.04	7,889.00	275.85	276.34	-93.91	-744.87	-10,424.91	1,964.61	1,413.81	550.80	3.567		
17,879.50	7,755.00	17,963.55	7,889.00	277.97	278.47	-93.91	-744.52	-10,504.41	1,964.35	1,409.30	555.04	3.539 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	90.00	90.00					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	90.00	90.00	89.73	0.27	334.753		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	90.00	90.00	89.01	0.99	91.296		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	90.00	90.00	88.30	1.70	52.856		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	90.00	90.00	87.58	2.42	37.195		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	90.00	90.00	86.86	3.14	28.693		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	90.00	90.00	86.15	3.85	23.355 CC		
700.00	699.98	699.98	699.98	2.29	2.29	102.65	0.00	90.00	90.37	85.80	4.57	19.775 ES		
800.00	799.84	800.44	800.42	2.65	2.63	106.92	-1.69	89.52	91.32	86.05	5.27	17.328		
900.00	899.45	899.86	899.70	3.01	2.96	115.07	-6.71	88.10	93.89	87.92	5.96	15.747		
1,000.00	998.70	997.60	997.06	3.38	3.29	125.98	-14.86	85.80	100.67	94.00	6.67	15.100		
1,100.00	1,097.47	1,093.03	1,091.79	3.77	3.63	137.67	-25.90	82.68	114.39	107.02	7.38	15.508		
1,164.39	1,160.75	1,152.99	1,151.11	4.03	3.86	144.69	-34.39	80.27	127.71	119.88	7.83	16.312		
1,200.00	1,195.67	1,185.67	1,183.35	4.18	3.98	148.31	-39.52	78.82	136.47	128.39	8.07	16.904		
1,300.00	1,293.73	1,276.00	1,272.13	4.60	4.34	156.84	-55.53	74.30	164.77	156.04	8.73	18.864		
1,400.00	1,391.80	1,367.68	1,361.85	5.04	4.73	163.43	-73.65	69.17	197.20	187.79	9.40	20.970		
1,500.00	1,489.86	1,460.06	1,452.25	5.48	5.13	168.23	-91.97	63.99	231.45	221.37	10.08	22.954		
1,600.00	1,587.93	1,552.44	1,542.65	5.93	5.54	171.81	-110.28	58.81	266.80	256.03	10.77	24.777		
1,700.00	1,686.00	1,644.82	1,633.05	6.38	5.96	174.56	-128.60	53.63	302.87	291.41	11.46	26.435		
1,800.00	1,784.06	1,737.20	1,723.44	6.84	6.39	176.73	-146.92	48.45	339.42	327.27	12.15	27.934		
1,900.00	1,882.13	1,829.58	1,813.84	7.30	6.82	178.49	-165.23	43.28	376.32	363.47	12.85	29.290		
2,000.00	1,980.19	1,921.96	1,904.24	7.76	7.26	179.93	-183.55	38.10	413.47	399.92	13.55	30.518		
2,100.00	2,078.26	2,014.34	1,994.64	8.22	7.70	-178.87	-201.86	32.92	450.81	436.56	14.25	31.632		
2,200.00	2,176.32	2,106.72	2,085.04	8.69	8.14	-177.85	-220.18	27.74	488.30	473.34	14.96	32.645		
2,300.00	2,274.39	2,199.10	2,175.43	9.15	8.58	-176.97	-238.49	22.56	525.90	510.24	15.67	33.570		
2,400.00	2,372.45	2,308.52	2,265.83	9.62	9.11	-176.21	-256.81	17.38	563.60	547.15	16.44	34.275		
2,500.00	2,470.52	2,383.86	2,356.23	10.09	9.48	-175.54	-275.12	12.20	601.37	584.28	17.09	35.193		
2,600.00	2,568.59	2,476.24	2,446.63	10.56	9.93	-174.96	-293.44	7.02	639.20	621.40	17.80	35.908		
2,700.00	2,666.65	2,568.62	2,537.03	11.03	10.38	-174.43	-311.76	1.84	677.08	658.57	18.52	36.568		
2,800.00	2,764.72	2,661.00	2,627.42	11.50	10.83	-173.97	-330.07	-3.34	715.01	695.78	19.23	37.179		
2,900.00	2,862.78	2,753.38	2,717.82	11.97	11.29	-173.55	-348.39	-8.52	752.97	733.02	19.95	37.746		
3,000.00	2,960.85	2,845.76	2,808.22	12.45	11.74	-173.17	-366.70	-13.70	790.97	770.30	20.67	38.273		
3,100.00	3,058.91	2,938.14	2,898.62	12.92	12.20	-172.83	-385.02	-18.88	828.99	807.60	21.39	38.765		
3,200.00	3,156.98	3,030.52	2,989.01	13.39	12.65	-172.51	-403.33	-24.05	867.03	844.93	22.10	39.224		
3,300.00	3,255.05	3,122.90	3,079.41	13.87	13.11	-172.22	-421.65	-29.23	905.10	882.27	22.83	39.654		
3,400.00	3,353.11	3,215.28	3,169.81	14.34	13.57	-171.96	-439.96	-34.41	943.18	919.63	23.55	40.057		
3,500.00	3,451.18	3,307.66	3,260.21	14.82	14.03	-171.71	-458.28	-39.59	981.28	957.01	24.27	40.436		
3,600.00	3,549.24	3,400.04	3,350.61	15.29	14.48	-171.49	-476.59	-44.77	1,019.39	994.40	24.99	40.792		
3,700.00	3,647.31	3,507.58	3,441.00	15.77	15.02	-171.28	-494.91	-49.95	1,057.52	1,031.74	25.77	41.032		
3,800.00	3,745.37	3,584.80	3,531.40	16.24	15.40	-171.08	-513.23	-55.13	1,095.65	1,069.22	26.44	41.445		
3,900.00	3,843.44	3,677.18	3,621.80	16.72	15.86	-170.90	-531.54	-60.31	1,133.80	1,106.64	27.16	41.745		
4,000.00	3,941.50	3,769.56	3,712.20	17.19	16.32	-170.73	-549.86	-65.49	1,171.96	1,144.07	27.88	42.029		
4,100.00	4,039.57	3,861.94	3,802.60	17.67	16.78	-170.57	-568.17	-70.67	1,210.12	1,181.51	28.61	42.299		
4,200.00	4,137.64	3,954.32	3,892.99	18.15	17.24	-170.42	-586.49	-75.85	1,248.29	1,218.96	29.33	42.554		
4,300.00	4,235.70	4,046.70	3,983.39	18.62	17.71	-170.28	-604.80	-81.03	1,286.47	1,256.41	30.06	42.797		
4,400.00	4,333.77	4,139.08	4,073.79	19.10	18.17	-170.15	-623.12	-86.21	1,324.66	1,293.87	30.79	43.028		
4,500.00	4,431.83	4,231.46	4,164.19	19.58	18.63	-170.02	-641.43	-91.38	1,362.85	1,331.34	31.51	43.249		
4,600.00	4,529.90	4,323.84	4,254.58	20.05	19.09	-169.90	-659.75	-96.56	1,401.05	1,368.81	32.24	43.459		
4,700.00	4,627.96	4,416.22	4,344.98	20.53	19.55	-169.79	-678.07	-101.74	1,439.25	1,406.28	32.97	43.659		
4,800.00	4,726.03	4,508.60	4,435.38	21.01	20.01	-169.68	-696.38	-106.92	1,477.45	1,443.76	33.69	43.851		
4,900.00	4,824.10	4,600.98	4,525.78	21.48	20.48	-169.58	-714.70	-112.10	1,515.66	1,481.24	34.42	44.034		
5,000.00	4,922.16	4,706.64	4,616.18	21.96	21.01	-169.49	-733.01	-117.28	1,553.88	1,518.68	35.20	44.143		

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 5-6-3
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 5-6-3	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,020.23	4,785.74	4,706.57	22.44	21.40	-169.40	-751.33	-122.46	1,592.09	1,556.22	35.88	44.377		
5,200.00	5,118.29	4,878.12	4,796.97	22.92	21.86	-169.31	-769.64	-127.64	1,630.31	1,593.71	36.61	44.538		
5,300.00	5,216.36	4,970.50	4,887.37	23.39	22.33	-169.23	-787.96	-132.82	1,668.54	1,631.20	37.33	44.692		
5,400.00	5,314.42	5,062.88	4,977.77	23.87	22.79	-169.15	-806.27	-138.00	1,706.76	1,668.70	38.06	44.840		
5,500.00	5,412.49	5,155.26	5,068.17	24.35	23.25	-169.07	-824.59	-143.18	1,744.99	1,706.20	38.79	44.983		
5,600.00	5,510.55	5,247.64	5,158.56	24.83	23.72	-169.00	-842.91	-148.36	1,783.23	1,743.70	39.52	45.120		
5,700.00	5,608.62	5,340.02	5,248.96	25.30	24.18	-168.93	-861.22	-153.54	1,821.46	1,781.21	40.25	45.252		
5,800.00	5,706.69	5,432.40	5,339.36	25.78	24.64	-168.86	-879.54	-158.72	1,859.70	1,818.71	40.98	45.378		
5,900.00	5,804.75	5,524.78	5,429.76	26.26	25.11	-168.80	-897.85	-163.89	1,897.93	1,856.22	41.71	45.500		
6,000.00	5,902.82	5,617.16	5,520.16	26.74	25.57	-168.73	-916.17	-169.07	1,936.17	1,893.73	42.44	45.618		
6,100.00	6,000.88	5,709.54	5,610.55	27.22	26.03	-168.68	-934.48	-174.25	1,974.42	1,931.24	43.17	45.732		
6,200.00	6,098.95	5,801.92	5,700.95	27.69	26.50	-168.62	-952.80	-179.43	2,012.66	1,968.75	43.91	45.841		
6,300.00	6,197.01	5,905.70	5,791.35	28.17	27.02	-168.56	-971.11	-184.61	2,050.90	2,006.22	44.68	45.900		
6,400.00	6,295.08	5,986.68	5,881.75	28.65	27.42	-168.51	-989.43	-189.79	2,089.15	2,043.78	45.37	46.049		
6,500.00	6,393.15	6,079.06	5,972.14	29.13	27.89	-168.46	-1,007.74	-194.97	2,127.40	2,081.30	46.10	46.147		
6,600.00	6,491.21	6,171.44	6,062.54	29.61	28.35	-168.41	-1,026.06	-200.15	2,165.65	2,118.82	46.83	46.243		
6,699.99	6,589.26	6,263.81	6,152.93	30.08	28.82	-168.36	-1,044.37	-205.33	2,203.90	2,156.33	47.56	46.335		
6,702.02	6,591.25	6,265.68	6,154.76	30.09	28.83	-168.36	-1,044.74	-205.43	2,204.67	2,157.09	47.58	46.337		
6,800.00	6,687.65	6,356.80	6,243.93	30.55	29.28	-168.46	-1,062.81	-210.54	2,240.63	2,192.33	48.30	46.394		
6,900.00	6,786.59	6,450.97	6,336.08	30.97	29.76	-168.53	-1,081.48	-215.82	2,274.16	2,225.14	49.03	46.387		
7,000.00	6,885.98	6,546.21	6,429.27	31.36	30.24	-168.57	-1,100.36	-221.16	2,304.45	2,254.70	49.75	46.318		
7,100.00	6,985.69	6,642.40	6,523.39	31.72	30.72	-168.58	-1,119.43	-226.55	2,331.47	2,281.00	50.48	46.189		
7,200.00	7,085.60	6,738.27	6,618.82	32.03	31.16	-168.37	-1,139.40	-232.68	2,352.50	2,299.88	51.23	44.701		
7,266.41	7,152.00	7,276.10	7,152.00	32.23	33.22	-179.86	-1,186.35	-245.48	2,356.81	2,302.62	54.19	43.494		
7,296.41	7,182.00	7,306.10	7,182.00	32.31	33.29	-179.86	-1,186.35	-245.48	2,356.81	2,302.43	54.38	43.343		
7,300.00	7,185.59	7,309.72	7,185.62	32.32	33.30	-90.11	-1,186.35	-245.49	2,356.81	2,302.41	54.40	43.324		
7,350.00	7,235.52	7,360.13	7,235.94	32.46	33.44	-90.11	-1,186.34	-248.02	2,356.81	2,302.08	54.73	43.063		
7,400.00	7,285.03	7,410.52	7,285.85	32.61	33.59	-90.11	-1,186.31	-254.96	2,356.81	2,301.72	55.08	42.786		
7,450.00	7,333.76	7,460.92	7,334.94	32.76	33.75	-90.11	-1,186.26	-266.26	2,356.81	2,301.35	55.46	42.495		
7,500.00	7,381.34	7,511.30	7,382.84	32.92	33.92	-90.11	-1,186.19	-281.83	2,356.81	2,300.95	55.86	42.192		
7,550.00	7,427.40	7,561.67	7,429.18	33.09	34.09	-90.10	-1,186.11	-301.53	2,356.81	2,300.53	56.28	41.875		
7,600.00	7,471.59	7,612.03	7,473.60	33.26	34.28	-90.10	-1,186.00	-325.22	2,356.81	2,300.08	56.73	41.542		
7,650.00	7,513.58	7,662.36	7,515.75	33.44	34.46	-90.09	-1,185.88	-352.71	2,356.81	2,299.59	57.22	41.190		
7,700.00	7,553.04	7,712.68	7,555.31	33.62	34.66	-90.09	-1,185.75	-383.77	2,356.81	2,299.07	57.74	40.815		
7,750.00	7,589.68	7,762.97	7,591.98	33.82	34.87	-90.08	-1,185.60	-418.17	2,356.81	2,298.49	58.32	40.411		
7,800.00	7,623.22	7,813.24	7,625.47	34.03	35.08	-90.07	-1,185.43	-455.63	2,356.81	2,297.85	58.96	39.974		
7,850.00	7,653.40	7,863.48	7,655.54	34.25	35.32	-90.06	-1,185.26	-495.85	2,356.81	2,297.14	59.67	39.500		
7,900.00	7,680.00	7,913.69	7,681.96	34.50	35.57	-90.06	-1,185.07	-538.53	2,356.81	2,296.36	60.45	38.986		
7,950.00	7,702.80	7,963.87	7,704.53	34.77	35.84	-90.05	-1,184.88	-583.33	2,356.81	2,295.49	61.32	38.432		
8,000.00	7,721.65	8,014.02	7,723.08	35.08	36.14	-90.04	-1,184.67	-629.91	2,356.81	2,294.53	62.28	37.840		
8,050.00	7,736.38	8,064.13	7,737.49	35.42	36.47	-90.03	-1,184.46	-677.89	2,356.82	2,293.48	63.33	37.214		
8,100.00	7,746.90	8,114.22	7,747.64	35.80	36.84	-90.02	-1,184.25	-726.91	2,356.82	2,292.35	64.46	36.561		
8,150.00	7,753.12	8,164.26	7,753.47	36.23	37.25	-90.01	-1,184.03	-776.60	2,356.82	2,291.15	65.67	35.889		
8,196.48	7,755.00	8,210.75	7,755.00	36.66	37.67	-90.00	-1,183.83	-823.06	2,356.82	2,289.97	66.85	35.256		
8,200.00	7,755.00	8,214.27	7,755.00	36.70	37.70	-90.00	-1,183.81	-826.58	2,356.82	2,289.88	66.94	35.207		
8,300.00	7,755.00	8,314.27	7,755.00	37.76	38.73	-90.00	-1,183.38	-926.58	2,356.82	2,287.11	69.71	33.808		
8,400.00	7,755.00	8,414.27	7,755.00	39.01	39.94	-90.00	-1,182.94	-1,026.58	2,356.82	2,284.05	72.77	32.386		
8,500.00	7,755.00	8,514.27	7,755.00	40.41	41.30	-90.00	-1,182.51	-1,126.58	2,356.83	2,280.74	76.09	30.974		
8,600.00	7,755.00	8,614.27	7,755.00	41.96	42.82	-90.00	-1,182.07	-1,226.57	2,356.83	2,277.19	79.64	29.595		
8,700.00	7,754.99	8,714.27	7,755.00	43.64	44.47	-90.00	-1,181.63	-1,326.57	2,356.83	2,273.45	83.38	28.267		
8,800.00	7,754.99	8,814.27	7,755.00	45.42	46.24	-90.00	-1,181.20	-1,426.57	2,356.83	2,269.54	87.29	27.000		
8,900.00	7,754.99	8,914.27	7,755.00	47.30	48.11	-90.00	-1,180.76	-1,526.57	2,356.84	2,265.48	91.35	25.799		

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 5-6-3
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 5-6-3	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		
9,000.00	7,754.99	9,014.27	7,755.00	49.27	50.06	-90.00	-1,180.32	-1,626.57	2,356.84	2,261.29	95.55	24.667		
9,100.00	7,754.99	9,114.27	7,755.00	51.30	52.09	-90.00	-1,179.89	-1,726.57	2,356.84	2,256.99	99.86	23.603		
9,200.00	7,754.99	9,214.27	7,755.00	53.40	54.19	-90.00	-1,179.45	-1,826.57	2,356.84	2,252.58	104.26	22.605		
9,300.00	7,754.99	9,314.27	7,754.99	55.55	56.34	-90.00	-1,179.01	-1,926.57	2,356.85	2,248.09	108.76	21.670		
9,400.00	7,754.99	9,414.27	7,754.99	57.75	58.54	-90.00	-1,178.58	-2,026.57	2,356.85	2,243.52	113.33	20.796		
9,500.00	7,754.98	9,514.27	7,754.99	59.99	60.78	-90.00	-1,178.14	-2,126.57	2,356.85	2,238.88	117.97	19.978		
9,600.00	7,754.98	9,614.27	7,754.99	62.27	63.07	-90.00	-1,177.70	-2,226.57	2,356.86	2,234.18	122.68	19.212		
9,700.00	7,754.98	9,714.27	7,754.99	64.59	65.38	-90.00	-1,177.27	-2,326.56	2,356.86	2,229.43	127.43	18.495		
9,800.00	7,754.98	9,814.27	7,754.99	66.93	67.73	-90.00	-1,176.83	-2,426.56	2,356.86	2,224.62	132.24	17.823		
9,900.00	7,754.98	9,914.27	7,754.99	69.30	70.10	-90.00	-1,176.39	-2,526.56	2,356.86	2,219.78	137.08	17.193		
10,000.00	7,754.98	10,014.27	7,754.99	71.69	72.49	-90.00	-1,175.96	-2,626.56	2,356.87	2,214.90	141.97	16.601		
10,100.00	7,754.98	10,114.27	7,754.99	74.10	74.91	-90.00	-1,175.52	-2,726.56	2,356.87	2,209.98	146.89	16.045		
10,200.00	7,754.98	10,214.27	7,754.99	76.53	77.35	-90.00	-1,175.09	-2,826.56	2,356.87	2,205.03	151.84	15.522		
10,300.00	7,754.98	10,314.27	7,754.99	78.98	79.80	-90.00	-1,174.65	-2,926.56	2,356.87	2,200.05	156.82	15.029		
10,400.00	7,754.97	10,414.27	7,754.99	81.45	82.27	-90.00	-1,174.21	-3,026.56	2,356.88	2,195.05	161.83	14.564		
10,500.00	7,754.97	10,514.27	7,754.99	83.93	84.75	-90.00	-1,173.78	-3,126.56	2,356.88	2,190.02	166.86	14.125		
10,600.00	7,754.97	10,614.27	7,754.99	86.42	87.25	-90.00	-1,173.34	-3,226.56	2,356.88	2,184.97	171.91	13.710		
10,700.00	7,754.97	10,714.27	7,754.99	88.92	89.76	-90.00	-1,172.90	-3,326.55	2,356.88	2,179.90	176.98	13.317		
10,800.00	7,754.97	10,814.27	7,754.99	91.44	92.28	-90.00	-1,172.47	-3,426.55	2,356.89	2,174.82	182.07	12.945		
10,900.00	7,754.97	10,914.27	7,754.99	93.96	94.81	-90.00	-1,172.03	-3,526.55	2,356.89	2,169.72	187.17	12.592		
11,000.00	7,754.97	11,014.27	7,754.99	96.49	97.34	-90.00	-1,171.59	-3,626.55	2,356.89	2,164.60	192.29	12.257		
11,100.00	7,754.97	11,114.27	7,754.99	99.04	99.89	-90.00	-1,171.16	-3,726.55	2,356.89	2,159.47	197.43	11.938		
11,200.00	7,754.96	11,214.27	7,754.99	101.59	102.44	-90.00	-1,170.72	-3,826.55	2,356.90	2,154.32	202.57	11.635		
11,300.00	7,754.96	11,314.27	7,754.99	104.14	105.01	-90.00	-1,170.28	-3,926.55	2,356.90	2,149.17	207.73	11.346		
11,400.00	7,754.96	11,414.27	7,754.98	106.71	107.57	-90.00	-1,169.85	-4,026.55	2,356.90	2,144.00	212.90	11.070		
11,500.00	7,754.96	11,514.27	7,754.98	109.28	110.15	-90.00	-1,169.41	-4,126.55	2,356.91	2,138.82	218.08	10.807		
11,600.00	7,754.96	11,614.27	7,754.98	111.85	112.73	-90.00	-1,168.97	-4,226.55	2,356.91	2,133.63	223.27	10.556		
11,700.00	7,754.96	11,714.27	7,754.98	114.43	115.31	-90.00	-1,168.54	-4,326.55	2,356.91	2,128.44	228.47	10.316		
11,800.00	7,754.96	11,814.27	7,754.98	117.02	117.90	-90.00	-1,168.10	-4,426.54	2,356.91	2,123.23	233.68	10.086		
11,900.00	7,754.96	11,914.27	7,754.98	119.61	120.50	-90.00	-1,167.67	-4,526.54	2,356.92	2,118.02	238.90	9.866		
12,000.00	7,754.95	12,014.27	7,754.98	122.20	123.10	-90.00	-1,167.23	-4,626.54	2,356.92	2,112.80	244.12	9.655		
12,100.00	7,754.95	12,114.27	7,754.98	124.80	125.70	-90.00	-1,166.79	-4,726.54	2,356.92	2,107.57	249.35	9.452		
12,200.00	7,754.95	12,214.27	7,754.98	127.40	128.31	-90.00	-1,166.36	-4,826.54	2,356.92	2,102.34	254.58	9.258		
12,300.00	7,754.95	12,314.27	7,754.98	130.01	130.92	-90.00	-1,165.92	-4,926.54	2,356.93	2,097.10	259.82	9.071		
12,400.00	7,754.95	12,414.27	7,754.98	132.62	133.53	-90.00	-1,165.48	-5,026.54	2,356.93	2,091.86	265.07	8.892		
12,500.00	7,754.95	12,514.27	7,754.98	135.23	136.15	-90.00	-1,165.05	-5,126.54	2,356.93	2,086.61	270.32	8.719		
12,600.00	7,754.95	12,614.27	7,754.98	137.85	138.77	-90.00	-1,164.61	-5,226.54	2,356.93	2,081.35	275.58	8.553		
12,700.00	7,754.95	12,714.27	7,754.98	140.47	141.39	-90.00	-1,164.17	-5,326.54	2,356.94	2,076.09	280.84	8.392		
12,800.00	7,754.95	12,814.27	7,754.98	143.09	144.02	-90.00	-1,163.74	-5,426.53	2,356.94	2,070.83	286.11	8.238		
12,900.00	7,754.94	12,914.27	7,754.98	145.71	146.64	-90.00	-1,163.30	-5,526.53	2,356.94	2,065.56	291.38	8.089		
13,000.00	7,754.94	13,014.27	7,754.98	148.34	149.27	-90.00	-1,162.86	-5,626.53	2,356.94	2,060.29	296.66	7.945		
13,100.00	7,754.94	13,114.27	7,754.98	150.97	151.91	-90.00	-1,162.43	-5,726.53	2,356.95	2,055.01	301.94	7.806		
13,200.00	7,754.94	13,214.27	7,754.98	153.60	154.54	-90.00	-1,161.99	-5,826.53	2,356.95	2,049.73	307.22	7.672		
13,300.00	7,754.94	13,314.27	7,754.98	156.23	157.18	-90.00	-1,161.55	-5,926.53	2,356.95	2,044.45	312.51	7.542		
13,400.00	7,754.94	13,414.27	7,754.98	158.86	159.82	-90.00	-1,161.12	-6,026.53	2,356.96	2,039.16	317.79	7.417		
13,500.00	7,754.94	13,514.27	7,754.97	161.50	162.46	-90.00	-1,160.68	-6,126.53	2,356.96	2,033.87	323.09	7.295		
13,600.00	7,754.94	13,614.27	7,754.97	164.14	165.10	-90.00	-1,160.25	-6,226.53	2,356.96	2,028.58	328.38	7.177		
13,700.00	7,754.93	13,714.27	7,754.97	166.78	167.74	-90.00	-1,159.81	-6,326.53	2,356.96	2,023.28	333.68	7.064		
13,800.00	7,754.93	13,814.27	7,754.97	169.42	170.39	-90.00	-1,159.37	-6,426.53	2,356.97	2,017.98	338.98	6.953		
13,900.00	7,754.93	13,914.27	7,754.97	172.06	173.03	-90.00	-1,158.94	-6,526.52	2,356.97	2,012.68	344.28	6.846		
14,000.00	7,754.93	14,014.27	7,754.97	174.71	175.68	-90.00	-1,158.50	-6,626.52	2,356.97	2,007.38	349.59	6.742		
14,100.00	7,754.93	14,114.27	7,754.97	177.35	178.33	-90.00	-1,158.06	-6,726.52	2,356.97	2,002.08	354.90	6.641		

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 5-6-3
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 5-6-3	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		
14,200.00	7,754.93	14,214.27	7,754.97	180.00	180.98	-90.00	-1,157.63	-6,826.52	2,356.98	1,996.77	360.21	6.543		
14,300.00	7,754.93	14,314.27	7,754.97	182.65	183.64	-90.00	-1,157.19	-6,926.52	2,356.98	1,991.46	365.52	6.448		
14,400.00	7,754.93	14,414.27	7,754.97	185.30	186.29	-90.00	-1,156.75	-7,026.52	2,356.98	1,986.15	370.84	6.356		
14,500.00	7,754.93	14,514.27	7,754.97	187.95	188.94	-90.00	-1,156.32	-7,126.52	2,356.98	1,980.83	376.15	6.266		
14,600.00	7,754.92	14,614.27	7,754.97	190.60	191.60	-90.00	-1,155.88	-7,226.52	2,356.99	1,975.52	381.47	6.179		
14,700.00	7,754.92	14,714.27	7,754.97	193.25	194.26	-90.00	-1,155.44	-7,326.52	2,356.99	1,970.20	386.79	6.094		
14,800.00	7,754.92	14,814.27	7,754.97	195.91	196.91	-90.00	-1,155.01	-7,426.52	2,356.99	1,964.88	392.11	6.011		
14,900.00	7,754.92	14,914.27	7,754.97	198.56	199.57	-90.00	-1,154.57	-7,526.51	2,356.99	1,959.56	397.44	5.931		
15,000.00	7,754.92	15,014.27	7,754.97	201.22	202.23	-90.00	-1,154.14	-7,626.51	2,357.00	1,954.24	402.76	5.852		
15,100.00	7,754.92	15,114.27	7,754.97	203.87	204.89	-90.00	-1,153.70	-7,726.51	2,357.00	1,948.91	408.09	5.776		
15,200.00	7,754.92	15,214.27	7,754.97	206.53	207.55	-90.00	-1,153.26	-7,826.51	2,357.00	1,943.59	413.42	5.701		
15,300.00	7,754.92	15,314.27	7,754.97	209.19	210.22	-90.00	-1,152.83	-7,926.51	2,357.01	1,938.26	418.74	5.629		
15,400.00	7,754.91	15,414.27	7,754.97	211.85	212.88	-90.00	-1,152.39	-8,026.51	2,357.01	1,932.93	424.08	5.558		
15,500.00	7,754.91	15,514.27	7,754.96	214.51	215.54	-90.00	-1,151.95	-8,126.51	2,357.01	1,927.60	429.41	5.489		
15,600.00	7,754.91	15,614.27	7,754.96	217.17	218.21	-90.00	-1,151.52	-8,226.51	2,357.01	1,922.27	434.74	5.422		
15,700.00	7,754.91	15,714.27	7,754.96	219.83	220.87	-90.00	-1,151.08	-8,326.51	2,357.02	1,916.94	440.08	5.356		
15,800.00	7,754.91	15,814.27	7,754.96	222.49	223.54	-90.00	-1,150.64	-8,426.51	2,357.02	1,911.61	445.41	5.292		
15,900.00	7,754.91	15,914.27	7,754.96	225.16	226.20	-90.00	-1,150.21	-8,526.51	2,357.02	1,906.27	450.75	5.229		
16,000.00	7,754.91	16,014.27	7,754.96	227.82	228.87	-90.00	-1,149.77	-8,626.50	2,357.02	1,900.94	456.09	5.168		
16,100.00	7,754.91	16,114.27	7,754.96	230.48	231.54	-90.00	-1,149.33	-8,726.50	2,357.03	1,895.60	461.43	5.108		
16,200.00	7,754.90	16,214.27	7,754.96	233.15	234.21	-90.00	-1,148.90	-8,826.50	2,357.03	1,890.26	466.77	5.050		
16,300.00	7,754.90	16,314.27	7,754.96	235.81	236.88	-90.00	-1,148.46	-8,926.50	2,357.03	1,884.93	472.11	4.993		
16,400.00	7,754.90	16,414.27	7,754.96	238.48	239.55	-90.00	-1,148.02	-9,026.50	2,357.03	1,879.59	477.45	4.937		
16,500.00	7,754.90	16,514.27	7,754.96	241.14	242.22	-90.00	-1,147.59	-9,126.50	2,357.04	1,874.25	482.79	4.882		
16,600.00	7,754.90	16,614.27	7,754.96	243.81	244.89	-90.00	-1,147.15	-9,226.50	2,357.04	1,868.90	488.13	4.829		
16,700.00	7,754.90	16,714.27	7,754.96	246.48	247.56	-90.00	-1,146.72	-9,326.50	2,357.04	1,863.56	493.48	4.776		
16,800.00	7,754.90	16,814.27	7,754.96	249.15	250.23	-90.00	-1,146.28	-9,426.50	2,357.04	1,858.22	498.82	4.725		
16,900.00	7,754.90	16,914.27	7,754.96	251.81	252.90	-90.00	-1,145.84	-9,526.50	2,357.05	1,852.88	504.17	4.675		
17,000.00	7,754.90	17,014.27	7,754.96	254.48	255.57	-90.00	-1,145.41	-9,626.49	2,357.05	1,847.53	509.52	4.626		
17,100.00	7,754.89	17,114.27	7,754.96	257.15	258.25	-90.00	-1,144.97	-9,726.49	2,357.05	1,842.19	514.87	4.578		
17,200.00	7,754.89	17,214.27	7,754.96	259.82	260.92	-90.00	-1,144.53	-9,826.49	2,357.05	1,836.84	520.21	4.531		
17,300.00	7,754.89	17,314.27	7,754.96	262.49	263.59	-90.00	-1,144.10	-9,926.49	2,357.06	1,831.49	525.56	4.485		
17,400.00	7,754.89	17,414.27	7,754.96	265.16	266.27	-90.00	-1,143.66	-10,026.49	2,357.06	1,826.15	530.91	4.440		
17,500.00	7,754.89	17,514.27	7,754.96	267.83	268.94	-90.00	-1,143.22	-10,126.49	2,357.06	1,820.80	536.26	4.395		
17,600.00	7,754.89	17,614.27	7,754.95	270.50	271.62	-90.00	-1,142.79	-10,226.49	2,357.07	1,815.45	541.61	4.352		
17,700.00	7,754.89	17,714.27	7,754.95	273.17	274.29	-90.00	-1,142.35	-10,326.49	2,357.07	1,810.10	546.97	4.309		
17,800.00	7,754.89	17,814.28	7,754.96	275.85	276.97	-90.00	-1,141.91	-10,426.49	2,357.07	1,804.75	552.32	4.268		
17,879.40	7,754.88	17,893.68	7,755.00	277.97	279.09	-90.00	-1,141.57	-10,505.89	2,357.07	1,800.50	556.57	4.235		
17,879.50	7,755.00	17,893.78	7,755.00	277.97	279.09	-90.00	-1,141.57	-10,505.99	2,356.82	1,800.25	556.57	4.235 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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

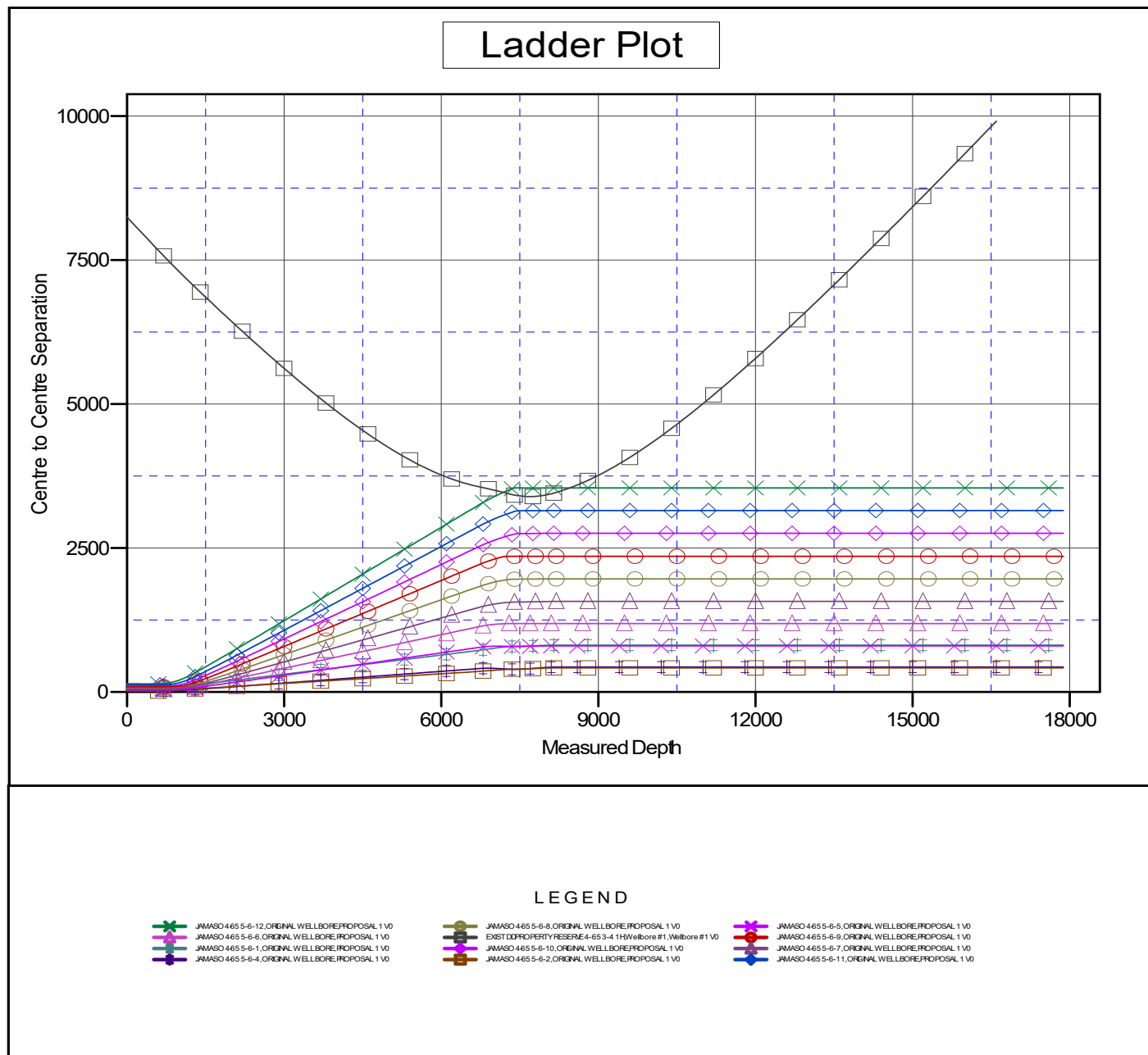
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: JAMASO 4-65 5-6-3

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.53°



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

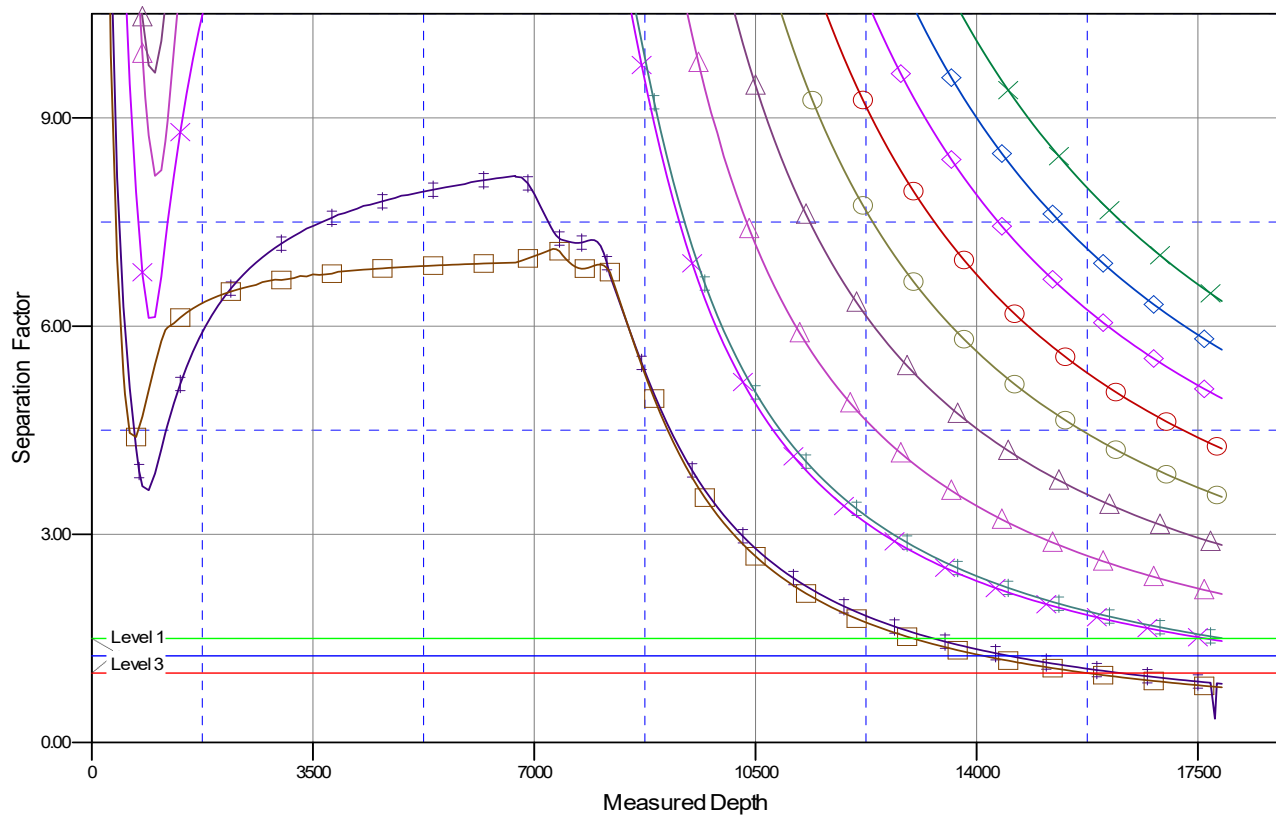
Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-3
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 5-6-3	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 5-6-3
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.53°

Separation Factor Plot



LEGEND

JAMASO 4-65 5-6-12, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-8, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-5, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 4-65 5-6-6, ORIGINAL WELLBORE, PROPOSAL 1 V0	EXISTING PROPERTY RESERVE 4-65 3-4 1H Wellbore #1, Wellbore #1 V0	JAMASO 4-65 5-6-9, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 4-65 5-6-1, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-10, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-7, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 4-65 5-6-4, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-2, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 4-65 5-6-11, ORIGINAL WELLBORE, PROPOSAL 1 V0