

AXIS EXPLORATION

ARAPAHOE COUNTY

Sec 4-T4S-R65W

JAMASO 4-65 5-6-10

ORIGINAL WELLBORE

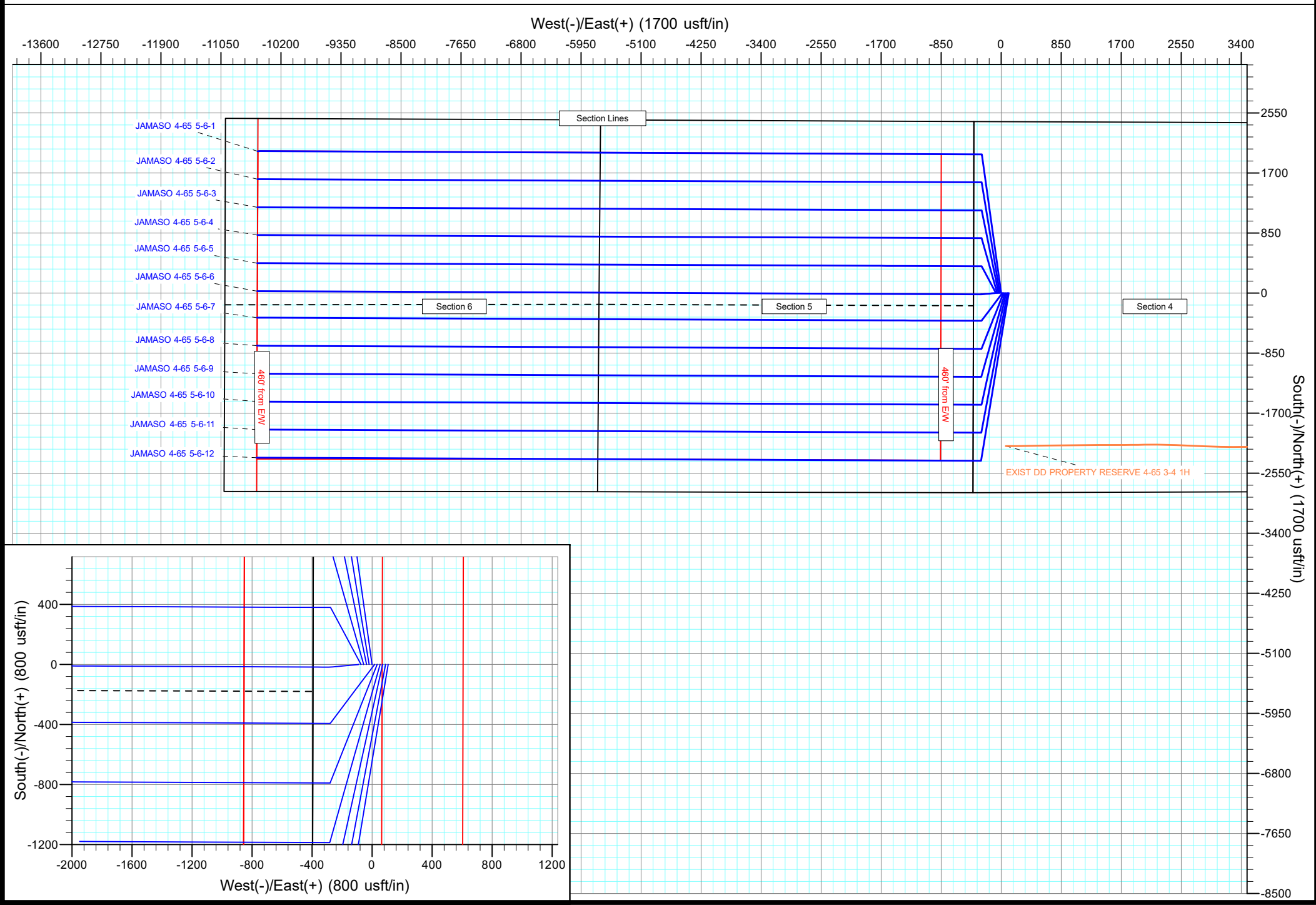
PROPOSAL 1

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 5-6-10
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 5-6-10	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	18,153.00	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	7,893.96	16,985.00	782.48	560.71	3.528	CC
EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbo	7,900.00	16,985.00	782.52	560.67	3.527	ES, SF
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	200.00	200.00	70.31	69.33	71.325	CC
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	300.00	299.62	70.57	68.87	41.484	ES
JAMASO 4-65 5-6-1 - ORIGINAL WELLBORE - PROPO	18,153.00	18,239.20	3,544.34	2,986.83	6.357	SF
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	444.40	444.46	19.35	16.63	7.127	CC
JAMASO 4-65 5-6-11 - ORIGINAL WELLBORE - PROPO	18,153.00	18,211.12	399.83	-155.86	0.720	Level 1, ES, SF
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	284.60	284.73	36.07	34.49	22.810	CC
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	300.00	300.09	36.09	34.40	21.332	ES
JAMASO 4-65 5-6-12 - ORIGINAL WELLBORE - PROPO	18,153.00	18,210.73	814.49	266.77	1.487	Level 3, SF
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	400.00	400.00	90.00	87.58	37.195	CC
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	500.00	499.46	90.30	87.16	28.811	ES
JAMASO 4-65 5-6-2 - ORIGINAL WELLBORE - PROPO	18,153.00	18,085.77	3,147.64	2,590.72	5.652	SF
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	699.91	698.75	106.05	101.53	23.444	CC
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	700.00	698.84	106.05	101.53	23.441	ES
JAMASO 4-65 5-6-3 - ORIGINAL WELLBORE - PROPO	18,153.00	17,883.20	2,756.18	2,200.39	4.959	SF
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	843.79	842.18	123.89	118.34	22.330	CC, ES
JAMASO 4-65 5-6-4 - ORIGINAL WELLBORE - PROPO	18,153.00	17,996.24	2,356.82	1,800.37	4.235	SF
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	921.75	920.22	140.05	133.93	22.884	CC
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	1,000.00	997.47	140.61	133.91	20.979	ES
JAMASO 4-65 5-6-5 - ORIGINAL WELLBORE - PROPO	18,153.00	17,918.14	1,960.33	1,404.18	3.525	SF
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	945.91	944.11	156.53	150.23	24.846	CC
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	1,000.00	1,002.53	156.78	150.06	23.328	ES
JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPO	18,153.00	17,765.20	1,573.16	1,020.95	2.849	SF
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	757.23	756.88	52.18	47.24	10.577	CC
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	800.00	800.55	52.34	47.10	9.991	ES
JAMASO 4-65 5-6-7 - ORIGINAL WELLBORE - PROPO	18,153.00	17,964.88	1,187.51	630.41	2.132	SF
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	712.79	712.59	35.70	31.08	7.728	CC, ES
JAMASO 4-65 5-6-8 - ORIGINAL WELLBORE - PROPO	18,153.00	17,958.11	791.85	235.79	1.424	Level 3, SF
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	644.54	644.48	16.48	12.33	3.975	CC
JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPO	18,153.00	17,888.65	433.05	-75.99	0.851	Level 1, ES, SF

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	8,060.15	0.00	204.23	177.48	-2,164.62	95.40	8,244.95					
100.00	100.00	100.00	8,060.16	0.13	201.56	177.51	-2,164.63	94.32	8,148.50	8,069.50	79.01	103.137		
200.00	200.00	200.00	8,060.18	0.49	198.88	177.53	-2,164.63	93.23	8,052.15	7,973.75	78.39	102.715		
300.00	300.00	16,956.08	8,060.70	0.85	248.97	179.36	-2,164.64	24.01	7,955.88	7,855.26	100.62	79.065		
400.00	400.00	16,956.52	8,060.71	1.21	248.99	179.38	-2,164.63	23.58	7,859.70	7,758.51	101.19	77.673		
500.00	500.00	16,956.96	8,060.71	1.57	249.00	179.39	-2,164.63	23.14	7,763.62	7,661.84	101.78	76.278		
600.00	599.98	16,957.76	8,060.71	1.91	249.02	-14.83	-2,164.63	22.33	7,667.17	7,564.80	102.37	74.893		
700.00	699.84	16,959.31	8,060.72	2.25	249.06	-17.05	-2,164.62	20.79	7,569.97	7,467.03	102.94	73.538		
800.00	799.45	16,961.59	8,060.73	2.59	249.12	-20.00	-2,164.61	18.51	7,472.10	7,368.64	103.46	72.223		
900.00	898.70	16,964.60	8,060.74	2.96	249.20	-24.09	-2,164.60	15.49	7,373.65	7,269.72	103.93	70.950		
1,000.00	997.47	16,968.34	8,060.76	3.35	249.30	-30.06	-2,164.58	11.75	7,274.72	7,170.38	104.34	69.720		
1,100.00	1,095.62	16,972.81	8,060.78	3.77	249.42	-39.39	-2,164.56	7.28	7,175.42	7,070.72	104.70	68.534		
1,200.00	1,193.06	16,978.00	8,060.80	4.22	249.56	-54.78	-2,164.54	2.09	7,075.85	6,970.85	104.99	67.393		
1,244.60	1,236.24	16,980.55	8,060.81	4.43	249.63	-64.52	-2,164.53	-0.45	7,031.38	6,926.28	105.10	66.899		
1,300.00	1,289.78	16,983.80	8,060.83	4.71	249.72	-64.30	-2,164.52	-3.70	6,976.13	6,870.90	105.23	66.293		
1,400.00	1,386.43	16,989.66	8,060.85	5.21	249.87	-63.90	-2,164.49	-9.57	6,876.40	6,770.94	105.47	65.199		
1,500.00	1,483.07	16,985.00	8,060.83	5.73	249.75	-64.22	-2,164.51	-4.90	6,776.69	6,671.09	105.60	64.174		
1,600.00	1,579.71	16,985.00	8,060.83	6.25	249.75	-64.22	-2,164.51	-4.90	6,676.98	6,571.20	105.79	63.118		
1,700.00	1,676.35	16,985.00	8,060.83	6.78	249.75	-64.22	-2,164.51	-4.90	6,577.28	6,471.30	105.98	62.061		
1,800.00	1,772.99	16,985.00	8,060.83	7.32	249.75	-64.22	-2,164.51	-4.90	6,477.59	6,371.41	106.18	61.004		
1,900.00	1,869.63	16,985.00	8,060.83	7.86	249.75	-64.22	-2,164.51	-4.90	6,377.91	6,271.52	106.39	59.947		
2,000.00	1,966.27	16,985.00	8,060.83	8.41	249.75	-64.22	-2,164.51	-4.90	6,278.24	6,171.63	106.61	58.889		
2,100.00	2,062.91	16,985.00	8,060.83	8.96	249.75	-64.22	-2,164.51	-4.90	6,178.59	6,071.75	106.84	57.832		
2,200.00	2,159.55	16,985.00	8,060.83	9.51	249.75	-64.22	-2,164.51	-4.90	6,078.94	5,971.87	107.07	56.775		
2,300.00	2,256.20	16,985.00	8,060.83	10.06	249.75	-64.22	-2,164.51	-4.90	5,979.30	5,871.99	107.31	55.719		
2,400.00	2,352.84	16,985.00	8,060.83	10.61	249.75	-64.22	-2,164.51	-4.90	5,879.68	5,772.12	107.56	54.663		
2,500.00	2,449.48	16,985.00	8,060.83	11.17	249.75	-64.22	-2,164.51	-4.90	5,780.07	5,672.25	107.82	53.609		
2,600.00	2,546.12	16,985.00	8,060.83	11.72	249.75	-64.22	-2,164.51	-4.90	5,680.47	5,572.38	108.09	52.555		
2,700.00	2,642.76	16,985.00	8,060.83	12.28	249.75	-64.22	-2,164.51	-4.90	5,580.89	5,472.52	108.36	51.502		
2,800.00	2,739.40	16,985.00	8,060.83	12.84	249.75	-64.22	-2,164.51	-4.90	5,481.32	5,372.67	108.65	50.450		
2,900.00	2,836.04	16,985.00	8,060.83	13.40	249.75	-64.22	-2,164.51	-4.90	5,381.77	5,272.83	108.94	49.400		
3,000.00	2,932.68	16,985.00	8,060.83	13.96	249.75	-64.22	-2,164.51	-4.90	5,282.24	5,172.99	109.25	48.351		
3,100.00	3,029.33	16,985.00	8,060.83	14.52	249.75	-64.22	-2,164.51	-4.90	5,182.72	5,073.15	109.56	47.303		
3,200.00	3,125.97	16,985.00	8,060.83	15.08	249.75	-64.22	-2,164.51	-4.90	5,083.22	4,973.33	109.89	46.257		
3,300.00	3,222.61	16,985.00	8,060.83	15.64	249.75	-64.22	-2,164.51	-4.90	4,983.74	4,873.52	110.23	45.213		
3,400.00	3,319.25	16,985.00	8,060.83	16.21	249.75	-64.22	-2,164.51	-4.90	4,884.29	4,773.71	110.58	44.171		
3,500.00	3,415.89	16,985.00	8,060.83	16.77	249.75	-64.22	-2,164.51	-4.90	4,784.86	4,673.92	110.94	43.130		
3,600.00	3,512.53	16,985.00	8,060.83	17.33	249.75	-64.22	-2,164.51	-4.90	4,685.45	4,574.13	111.32	42.092		
3,700.00	3,609.17	16,985.00	8,060.83	17.89	249.75	-64.22	-2,164.51	-4.90	4,586.06	4,474.36	111.70	41.056		
3,800.00	3,705.81	16,985.00	8,060.83	18.46	249.75	-64.22	-2,164.51	-4.90	4,486.71	4,374.60	112.11	40.022		
3,900.00	3,802.46	16,985.00	8,060.83	19.02	249.75	-64.22	-2,164.51	-4.90	4,387.38	4,274.85	112.53	38.990		
4,000.00	3,899.10	16,985.00	8,060.83	19.59	249.75	-64.22	-2,164.51	-4.90	4,288.08	4,175.12	112.96	37.961		
4,100.00	3,995.74	16,985.00	8,060.83	20.15	249.75	-64.22	-2,164.51	-4.90	4,188.82	4,075.41	113.41	36.934		
4,200.00	4,092.38	16,985.00	8,060.83	20.71	249.75	-64.22	-2,164.51	-4.90	4,089.60	3,975.71	113.88	35.910		
4,300.00	4,189.02	16,985.00	8,060.83	21.28	249.75	-64.22	-2,164.51	-4.90	3,990.41	3,876.04	114.37	34.889		
4,400.00	4,285.66	16,985.00	8,060.83	21.84	249.75	-64.22	-2,164.51	-4.90	3,891.26	3,776.38	114.89	33.871		
4,500.00	4,382.30	16,985.00	8,060.83	22.41	249.75	-64.22	-2,164.51	-4.90	3,792.16	3,676.74	115.42	32.856		
4,600.00	4,478.94	16,985.00	8,060.83	22.97	249.75	-64.22	-2,164.51	-4.90	3,693.11	3,577.13	115.98	31.844		
4,700.00	4,575.59	16,985.00	8,060.83	23.54	249.75	-64.22	-2,164.51	-4.90	3,594.11	3,477.55	116.56	30.835		
4,800.00	4,672.23	16,985.00	8,060.83	24.10	249.75	-64.22	-2,164.51	-4.90	3,495.17	3,378.00	117.17	29.829		
4,900.00	4,768.87	16,985.00	8,060.83	24.67	249.75	-64.22	-2,164.51	-4.90	3,396.29	3,278.47	117.81	28.828		
5,000.00	4,865.51	16,985.00	8,060.83	25.24	249.75	-64.22	-2,164.51	-4.90	3,297.47	3,178.99	118.49	27.830		

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 5-6-10
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 5-6-10	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	4,962.15	16,985.00	8,060.83	25.80	249.75	-64.22	-2,164.51	-4.90	3,198.73	3,079.54	119.20	26.836		
5,200.00	5,058.79	16,985.00	8,060.83	26.37	249.75	-64.22	-2,164.51	-4.90	3,100.08	2,980.13	119.95	25.846		
5,300.00	5,155.43	16,985.00	8,060.83	26.93	249.75	-64.22	-2,164.51	-4.90	3,001.51	2,880.77	120.74	24.860		
5,400.00	5,252.07	16,985.00	8,060.83	27.50	249.75	-64.22	-2,164.51	-4.90	2,903.03	2,781.46	121.57	23.879		
5,500.00	5,348.72	16,985.00	8,060.83	28.07	249.75	-64.22	-2,164.51	-4.90	2,804.67	2,682.21	122.46	22.902		
5,600.00	5,445.36	16,985.00	8,060.83	28.63	249.75	-64.22	-2,164.51	-4.90	2,706.42	2,583.02	123.41	21.931		
5,700.00	5,542.00	16,985.00	8,060.83	29.20	249.75	-64.22	-2,164.51	-4.90	2,608.31	2,483.90	124.41	20.965		
5,800.00	5,638.64	16,985.00	8,060.83	29.76	249.75	-64.22	-2,164.51	-4.90	2,510.35	2,384.86	125.49	20.004		
5,900.00	5,735.28	16,985.00	8,060.83	30.33	249.75	-64.22	-2,164.51	-4.90	2,412.56	2,285.91	126.65	19.050		
6,000.00	5,831.92	16,985.00	8,060.83	30.90	249.75	-64.22	-2,164.51	-4.90	2,314.95	2,187.07	127.89	18.102		
6,100.00	5,928.56	16,985.00	8,060.83	31.46	249.75	-64.22	-2,164.51	-4.90	2,217.56	2,088.33	129.22	17.161		
6,200.00	6,025.20	16,985.00	8,060.83	32.03	249.75	-64.22	-2,164.51	-4.90	2,120.41	1,989.74	130.67	16.227		
6,300.00	6,121.85	16,985.00	8,060.83	32.60	249.75	-64.22	-2,164.51	-4.90	2,023.54	1,891.29	132.24	15.302		
6,400.00	6,218.49	16,985.00	8,060.83	33.16	249.75	-64.22	-2,164.51	-4.90	1,926.98	1,793.03	133.96	14.385		
6,500.00	6,315.13	16,985.00	8,060.83	33.73	249.75	-64.22	-2,164.51	-4.90	1,830.80	1,694.97	135.83	13.479		
6,600.00	6,411.77	16,985.00	8,060.83	34.30	249.75	-64.22	-2,164.51	-4.90	1,735.05	1,597.16	137.89	12.583		
6,700.00	6,508.41	16,985.00	8,060.83	34.86	249.75	-64.22	-2,164.51	-4.90	1,639.80	1,499.64	140.16	11.699		
6,791.42	6,596.76	16,985.00	8,060.83	35.38	249.75	-64.22	-2,164.51	-4.90	1,553.26	1,410.80	142.46	10.903		
6,800.00	6,605.05	16,985.00	8,060.83	35.43	249.75	-63.78	-2,164.51	-4.90	1,545.16	1,402.48	142.68	10.829		
6,900.00	6,702.20	16,985.00	8,060.83	35.97	249.75	-59.11	-2,164.51	-4.90	1,451.58	1,305.84	145.74	9.960		
7,000.00	6,800.11	16,985.00	8,060.83	36.47	249.75	-55.18	-2,164.51	-4.90	1,359.62	1,210.01	149.61	9.088		
7,100.00	6,898.67	16,985.00	8,060.83	36.93	249.75	-51.88	-2,164.51	-4.90	1,269.77	1,115.32	154.45	8.221		
7,200.00	6,997.75	16,985.00	8,060.83	37.34	249.75	-49.13	-2,164.51	-4.90	1,182.61	1,022.20	160.41	7.372		
7,300.00	7,097.25	16,985.00	8,060.83	37.71	249.75	-46.85	-2,164.51	-4.90	1,098.92	931.24	167.68	6.554		
7,400.00	7,197.04	16,985.00	8,060.83	38.04	249.75	-44.98	-2,164.51	-4.90	1,019.66	843.25	176.41	5.780		
7,500.00	7,296.99	16,985.00	8,060.83	38.32	249.75	-43.46	-2,164.51	-4.90	946.06	759.39	186.67	5.068		
7,536.02	7,333.00	16,985.00	8,060.83	38.41	249.75	149.49	-2,164.51	-4.90	921.22	730.48	190.73	4.830		
7,566.02	7,363.00	16,985.00	8,060.83	38.47	249.75	149.49	-2,164.51	-4.90	901.21	706.97	194.23	4.640		
7,600.00	7,396.96	16,985.00	8,060.83	38.55	249.75	-123.13	-2,164.51	-4.90	879.63	681.41	198.23	4.438		
7,650.00	7,446.68	16,985.00	8,060.83	38.68	249.75	-126.01	-2,164.51	-4.90	851.03	647.06	203.97	4.172		
7,700.00	7,495.77	16,985.00	8,060.83	38.82	249.75	-128.23	-2,164.51	-4.90	826.71	617.38	209.34	3.949		
7,750.00	7,543.84	16,985.00	8,060.83	38.97	249.75	-129.88	-2,164.51	-4.90	807.25	593.19	214.06	3.771		
7,800.00	7,590.54	16,985.00	8,060.83	39.12	249.75	-131.00	-2,164.51	-4.90	793.16	575.29	217.87	3.641		
7,850.00	7,635.50	16,985.00	8,060.83	39.27	249.75	-131.63	-2,164.51	-4.90	784.83	564.31	220.52	3.559		
7,893.96	7,673.33	16,985.00	8,060.83	39.42	249.75	-131.81	-2,164.51	-4.90	782.48	560.71	221.77	3.528 CC		
7,900.00	7,678.39	16,985.00	8,060.83	39.44	249.75	-131.80	-2,164.51	-4.90	782.52	560.67	221.85	3.527 ES, SF		
7,950.00	7,718.88	16,985.00	8,060.83	39.60	249.75	-131.52	-2,164.51	-4.90	786.30	564.51	221.79	3.545		
8,000.00	7,756.67	16,985.00	8,060.83	39.78	249.75	-130.77	-2,164.51	-4.90	796.05	575.67	220.38	3.612		
8,050.00	7,791.45	16,985.00	8,060.83	39.96	249.75	-129.53	-2,164.51	-4.90	811.48	593.72	217.76	3.727		
8,100.00	7,822.98	16,985.00	8,060.83	40.15	249.75	-127.75	-2,164.51	-4.90	832.17	618.03	214.14	3.886		
8,150.00	7,851.01	16,985.00	8,060.83	40.35	249.75	-125.38	-2,164.51	-4.90	857.58	647.81	209.76	4.088		
8,200.00	7,875.32	16,985.00	8,060.83	40.57	249.75	-122.33	-2,164.51	-4.90	887.12	682.23	204.89	4.330		
8,250.00	7,895.74	16,985.00	8,060.83	40.81	249.75	-118.53	-2,164.51	-4.90	920.19	720.46	199.73	4.607		
8,300.00	7,912.10	16,985.00	8,060.83	41.06	249.75	-113.87	-2,164.51	-4.90	956.17	761.70	194.48	4.917		
8,350.00	7,924.28	16,985.00	8,060.83	41.34	249.75	-108.30	-2,164.51	-4.90	994.51	805.24	189.27	5.255		
8,400.00	7,932.19	16,985.00	8,060.83	41.65	249.75	-101.79	-2,164.51	-4.90	1,034.64	850.44	184.21	5.617		
8,450.00	7,935.77	16,985.00	8,060.83	41.99	249.75	-94.45	-2,164.51	-4.90	1,076.10	896.73	179.37	5.999		
8,466.09	7,936.00	16,985.00	8,060.83	42.10	249.75	-91.95	-2,164.51	-4.90	1,089.65	911.79	177.87	6.126		
8,500.00	7,936.00	16,985.00	8,060.83	42.35	249.75	-91.95	-2,164.51	-4.90	1,118.43	943.64	174.79	6.399		
8,600.00	7,936.00	16,985.00	8,060.83	43.20	249.75	-91.95	-2,164.51	-4.90	1,204.87	1,038.42	166.45	7.239		
8,700.00	7,936.00	16,985.00	8,060.83	44.20	249.75	-91.95	-2,164.51	-4.90	1,293.27	1,134.19	159.08	8.130		
8,800.00	7,935.99	16,985.00	8,060.83	45.35	249.75	-91.95	-2,164.51	-4.90	1,383.24	1,230.68	152.56	9.067		

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 5-6-10
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 5-6-10	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	7,935.99	16,985.00	8,060.83	46.65	249.75	-91.95	-2,164.51	-4.90	1,474.51	1,327.74	146.77	10.046		
9,000.00	7,935.99	16,985.00	8,060.83	48.10	249.75	-91.95	-2,164.51	-4.90	1,566.84	1,425.22	141.62	11.064		
9,100.00	7,935.99	16,985.00	8,060.83	49.67	249.75	-91.95	-2,164.51	-4.90	1,660.07	1,523.04	137.02	12.115		
9,200.00	7,935.99	16,985.00	8,060.83	51.37	249.75	-91.95	-2,164.51	-4.90	1,754.04	1,621.13	132.91	13.198		
9,300.00	7,935.99	16,985.00	8,060.83	53.16	249.75	-91.95	-2,164.51	-4.90	1,848.64	1,719.43	129.20	14.308		
9,400.00	7,935.98	16,985.00	8,060.83	55.05	249.75	-91.95	-2,164.51	-4.90	1,943.78	1,817.91	125.87	15.443		
9,500.00	7,935.98	16,985.00	8,060.83	57.02	249.75	-91.95	-2,164.51	-4.90	2,039.39	1,916.54	122.85	16.601		
9,600.00	7,935.98	16,985.00	8,060.83	59.06	249.75	-91.95	-2,164.51	-4.90	2,135.40	2,015.29	120.11	17.779		
9,700.00	7,935.98	16,985.00	8,060.83	61.16	249.75	-91.95	-2,164.51	-4.90	2,231.76	2,114.14	117.62	18.975		
9,800.00	7,935.98	16,985.00	8,060.83	63.31	249.75	-91.95	-2,164.51	-4.90	2,328.43	2,213.08	115.34	20.187		
9,900.00	7,935.97	16,985.00	8,060.83	65.50	249.75	-91.95	-2,164.51	-4.90	2,425.36	2,312.10	113.26	21.413		
10,000.00	7,935.97	16,985.00	8,060.83	67.74	249.75	-91.95	-2,164.51	-4.90	2,522.54	2,411.18	111.36	22.653		
10,100.00	7,935.97	16,985.00	8,060.83	70.02	249.75	-91.95	-2,164.51	-4.90	2,619.93	2,510.32	109.61	23.903		
10,200.00	7,935.97	16,985.00	8,060.83	72.32	249.75	-91.95	-2,164.51	-4.90	2,717.51	2,609.51	107.99	25.164		
10,300.00	7,935.97	16,985.00	8,060.83	74.66	249.75	-91.95	-2,164.51	-4.90	2,815.26	2,708.75	106.51	26.433		
10,400.00	7,935.97	16,985.00	8,060.83	77.02	249.75	-91.95	-2,164.51	-4.90	2,913.16	2,808.03	105.13	27.710		
10,500.00	7,935.96	16,985.00	8,060.83	79.41	249.75	-91.95	-2,164.51	-4.90	3,011.20	2,907.34	103.86	28.993		
10,600.00	7,935.96	16,985.00	8,060.83	81.81	249.75	-91.95	-2,164.51	-4.90	3,109.36	3,006.68	102.68	30.283		
10,700.00	7,935.96	16,985.00	8,060.83	84.24	249.75	-91.95	-2,164.51	-4.90	3,207.64	3,106.06	101.58	31.577		
10,800.00	7,935.96	16,985.00	8,060.83	86.68	249.75	-91.95	-2,164.51	-4.90	3,306.02	3,205.46	100.56	32.876		
10,900.00	7,935.96	16,985.00	8,060.83	89.14	249.75	-91.95	-2,164.51	-4.90	3,404.50	3,304.89	99.61	34.178		
11,000.00	7,935.95	16,985.00	8,060.83	91.61	249.75	-91.95	-2,164.51	-4.90	3,503.06	3,404.33	98.73	35.483		
11,100.00	7,935.95	16,985.00	8,060.83	94.10	249.75	-91.95	-2,164.51	-4.90	3,601.70	3,503.80	97.90	36.790		
11,200.00	7,935.95	16,985.00	8,060.83	96.59	249.75	-91.95	-2,164.51	-4.90	3,700.41	3,603.29	97.12	38.100		
11,300.00	7,935.95	16,985.00	8,060.83	99.10	249.75	-91.95	-2,164.51	-4.90	3,799.19	3,702.79	96.40	39.410		
11,400.00	7,935.95	16,985.00	8,060.83	101.62	249.75	-91.95	-2,164.51	-4.90	3,898.04	3,802.32	95.72	40.722		
11,500.00	7,935.95	16,985.00	8,060.83	104.15	249.75	-91.95	-2,164.51	-4.90	3,996.94	3,901.85	95.09	42.035		
11,600.00	7,935.94	16,985.00	8,060.83	106.68	249.75	-91.95	-2,164.51	-4.90	4,095.89	4,001.40	94.49	43.347		
11,700.00	7,935.94	16,985.00	8,060.83	109.23	249.75	-91.95	-2,164.51	-4.90	4,194.90	4,100.97	93.93	44.660		
11,800.00	7,935.94	16,985.00	8,060.83	111.78	249.75	-91.95	-2,164.51	-4.90	4,293.95	4,200.55	93.40	45.973		
11,900.00	7,935.94	16,985.00	8,060.83	114.33	249.75	-91.95	-2,164.51	-4.90	4,393.03	4,300.13	92.91	47.285		
12,000.00	7,935.94	16,985.00	8,060.83	116.90	249.75	-91.95	-2,164.51	-4.90	4,492.17	4,399.73	92.44	48.596		
12,100.00	7,935.93	16,985.00	8,060.83	119.47	249.75	-91.95	-2,164.51	-4.90	4,591.35	4,499.35	92.00	49.906		
12,200.00	7,935.93	16,985.00	8,060.83	122.04	249.75	-91.95	-2,164.51	-4.90	4,690.55	4,598.97	91.58	51.215		
12,300.00	7,935.93	16,985.00	8,060.83	124.63	249.75	-91.95	-2,164.51	-4.90	4,789.79	4,698.60	91.19	52.523		
12,400.00	7,935.93	16,985.00	8,060.83	127.21	249.75	-91.95	-2,164.51	-4.90	4,889.06	4,798.24	90.82	53.830		
12,500.00	7,935.93	16,985.00	8,060.83	129.80	249.75	-91.95	-2,164.51	-4.90	4,988.36	4,897.88	90.48	55.134		
12,600.00	7,935.93	16,985.00	8,060.83	132.40	249.75	-91.95	-2,164.51	-4.90	5,087.69	4,997.54	90.15	56.438		
12,700.00	7,935.92	16,985.00	8,060.83	135.00	249.75	-91.95	-2,164.51	-4.90	5,187.04	5,097.20	89.84	57.739		
12,800.00	7,935.92	16,985.00	8,060.83	137.60	249.75	-91.95	-2,164.51	-4.90	5,286.42	5,196.87	89.54	59.038		
12,900.00	7,935.92	16,985.00	8,060.83	140.20	249.75	-91.95	-2,164.51	-4.90	5,385.82	5,296.55	89.26	60.336		
13,000.00	7,935.92	16,985.00	8,060.83	142.81	249.75	-91.95	-2,164.51	-4.90	5,485.24	5,396.24	89.00	61.631		
13,100.00	7,935.92	16,985.00	8,060.83	145.43	249.75	-91.95	-2,164.51	-4.90	5,584.68	5,495.93	88.75	62.924		
13,200.00	7,935.91	16,985.00	8,060.83	148.04	249.75	-91.95	-2,164.51	-4.90	5,684.14	5,595.63	88.52	64.215		
13,300.00	7,935.91	16,985.00	8,060.83	150.66	249.75	-91.95	-2,164.51	-4.90	5,783.62	5,695.33	88.29	65.504		
13,400.00	7,935.91	16,985.00	8,060.83	153.28	249.75	-91.95	-2,164.51	-4.90	5,883.12	5,795.04	88.08	66.791		
13,500.00	7,935.91	16,985.00	8,060.83	155.90	249.75	-91.95	-2,164.51	-4.90	5,982.64	5,894.75	87.88	68.075		
13,600.00	7,935.91	16,985.00	8,060.83	158.53	249.75	-91.95	-2,164.51	-4.90	6,082.17	5,994.47	87.69	69.356		
13,700.00	7,935.91	16,985.00	8,060.83	161.16	249.75	-91.95	-2,164.51	-4.90	6,181.71	6,094.20	87.52	70.635		
13,800.00	7,935.90	16,985.00	8,060.83	163.79	249.75	-91.95	-2,164.51	-4.90	6,281.27	6,193.93	87.35	71.912		
13,900.00	7,935.90	16,985.00	8,060.83	166.42	249.75	-91.95	-2,164.51	-4.90	6,380.85	6,293.66	87.19	73.186		
14,000.00	7,935.90	16,985.00	8,060.83	169.05	249.75	-91.95	-2,164.51	-4.90	6,480.44	6,393.40	87.04	74.458		

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 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T4S-R65W - EXIST DD PROPERTY RESERVE 4-65 3-4 1H - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 83-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,935.90	16,985.00	8,060.83	171.69	249.75	-91.95	-2,164.51	-4.90	6,580.04	6,493.14	86.89	75.727	
14,200.00	7,935.90	16,985.00	8,060.83	174.33	249.75	-91.95	-2,164.51	-4.90	6,679.65	6,592.89	86.76	76.993	
14,300.00	7,935.89	16,985.00	8,060.83	176.97	249.75	-91.95	-2,164.51	-4.90	6,779.27	6,692.64	86.63	78.257	
14,400.00	7,935.89	16,985.00	8,060.83	179.61	249.75	-91.95	-2,164.51	-4.90	6,878.90	6,792.40	86.51	79.518	
14,500.00	7,935.89	16,985.00	8,060.83	182.25	249.75	-91.95	-2,164.51	-4.90	6,978.55	6,892.16	86.39	80.776	
14,600.00	7,935.89	16,985.00	8,060.83	184.90	249.75	-91.95	-2,164.51	-4.90	7,078.20	6,991.92	86.29	82.032	
14,700.00	7,935.89	16,985.00	8,060.83	187.54	249.75	-91.95	-2,164.51	-4.90	7,177.87	7,091.68	86.18	83.285	
14,800.00	7,935.89	16,985.00	8,060.83	190.19	249.75	-91.95	-2,164.51	-4.90	7,277.54	7,191.45	86.09	84.536	
14,900.00	7,935.88	16,985.00	8,060.83	192.84	249.75	-91.95	-2,164.51	-4.90	7,377.22	7,291.23	86.00	85.783	
15,000.00	7,935.88	16,985.00	8,060.83	195.49	249.75	-91.95	-2,164.51	-4.90	7,476.92	7,391.00	85.91	87.029	
15,100.00	7,935.88	16,985.00	8,060.83	198.14	249.75	-91.95	-2,164.51	-4.90	7,576.61	7,490.78	85.83	88.271	
15,200.00	7,935.88	16,985.00	8,060.83	200.79	249.75	-91.95	-2,164.51	-4.90	7,676.32	7,590.56	85.76	89.510	
15,300.00	7,935.88	16,985.00	8,060.83	203.44	249.75	-91.95	-2,164.51	-4.90	7,776.04	7,690.35	85.69	90.747	
15,400.00	7,935.87	16,985.00	8,060.83	206.10	249.75	-91.95	-2,164.51	-4.90	7,875.76	7,790.13	85.62	91.981	
15,500.00	7,935.87	16,985.00	8,060.83	208.75	249.75	-91.95	-2,164.51	-4.90	7,975.49	7,889.92	85.56	93.213	
15,600.00	7,935.87	16,985.00	8,060.83	211.41	249.75	-91.95	-2,164.51	-4.90	8,075.22	7,989.72	85.51	94.441	
15,700.00	7,935.87	16,985.00	8,060.83	214.07	249.75	-91.95	-2,164.51	-4.90	8,174.96	8,089.51	85.45	95.667	
15,800.00	7,935.87	16,985.00	8,060.83	216.72	249.75	-91.95	-2,164.51	-4.90	8,274.71	8,189.31	85.40	96.890	
15,900.00	7,935.87	16,985.00	8,060.83	219.38	249.75	-91.95	-2,164.51	-4.90	8,374.46	8,289.11	85.36	98.110	
16,000.00	7,935.86	16,985.00	8,060.83	222.04	249.75	-91.95	-2,164.51	-4.90	8,474.22	8,388.91	85.32	99.328	
16,100.00	7,935.86	16,985.00	8,060.83	224.70	249.75	-91.95	-2,164.51	-4.90	8,573.99	8,488.71	85.28	100.543	
16,200.00	7,935.86	16,985.00	8,060.83	227.37	249.75	-91.95	-2,164.51	-4.90	8,673.76	8,588.52	85.24	101.755	
16,300.00	7,935.86	16,985.00	8,060.83	230.03	249.75	-91.95	-2,164.51	-4.90	8,773.54	8,688.33	85.21	102.964	
16,400.00	7,935.86	16,985.00	8,060.83	232.69	249.75	-91.95	-2,164.51	-4.90	8,873.32	8,788.14	85.18	104.170	
16,500.00	7,935.85	16,985.00	8,060.83	235.35	249.75	-91.95	-2,164.51	-4.90	8,973.10	8,887.95	85.15	105.374	
16,600.00	7,935.85	16,985.00	8,060.83	238.02	249.75	-91.95	-2,164.51	-4.90	9,072.89	8,987.76	85.13	106.575	
16,700.00	7,935.85	16,985.00	8,060.83	240.68	249.75	-91.95	-2,164.51	-4.90	9,172.69	9,087.58	85.11	107.773	
16,800.00	7,935.85	16,985.00	8,060.83	243.35	249.75	-91.95	-2,164.51	-4.90	9,272.49	9,187.39	85.09	108.968	
16,900.00	7,935.85	16,985.00	8,060.83	246.01	249.75	-91.95	-2,164.51	-4.90	9,372.29	9,287.21	85.08	110.160	
17,000.00	7,935.85	16,985.00	8,060.83	248.68	249.75	-91.95	-2,164.51	-4.90	9,472.10	9,387.03	85.07	111.350	
17,100.00	7,935.84	16,985.00	8,060.83	251.35	249.75	-91.95	-2,164.51	-4.90	9,571.91	9,486.86	85.06	112.537	
17,200.00	7,935.84	16,985.00	8,060.83	254.02	249.75	-91.95	-2,164.51	-4.90	9,671.73	9,586.68	85.05	113.721	
17,300.00	7,935.84	16,985.00	8,060.83	256.69	249.75	-91.95	-2,164.51	-4.90	9,771.55	9,686.51	85.04	114.902	
17,400.00	7,935.84	16,985.00	8,060.83	259.35	249.75	-91.95	-2,164.51	-4.90	9,871.37	9,786.33	85.04	116.081	
17,500.00	7,935.84	16,985.00	8,060.83	262.02	249.75	-91.95	-2,164.51	-4.90	9,971.20	9,886.16	85.04	117.256	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-70.31	70.31					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-70.31	70.31	70.04	0.27	261.526		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-70.31	70.31	69.33	0.99	71.325 CC		
300.00	300.00	299.62	299.60	0.85	0.85	-88.61	1.72	-70.55	70.57	68.87	1.70	41.484 ES		
400.00	400.00	399.00	398.84	1.21	1.22	-84.51	6.84	-71.26	71.60	68.18	2.42	29.599		
500.00	500.00	497.91	497.37	1.57	1.58	-78.05	15.33	-72.45	74.10	70.95	3.14	23.571		
600.00	599.98	595.86	594.61	1.91	1.96	98.69	27.05	-74.08	79.29	75.43	3.86	20.558		
700.00	699.84	692.12	689.71	2.25	2.35	110.11	41.76	-76.13	89.61	85.05	4.56	19.649		
800.00	799.45	786.07	781.99	2.59	2.76	121.28	59.17	-78.55	107.25	101.99	5.26	20.394		
900.00	898.70	877.17	870.88	2.96	3.18	130.60	78.90	-81.30	133.05	127.11	5.94	22.399		
1,000.00	997.47	964.94	955.88	3.35	3.62	137.71	100.55	-84.31	166.74	160.14	6.60	25.258		
1,100.00	1,095.62	1,048.99	1,036.61	3.77	4.06	142.95	123.69	-87.53	207.64	200.41	7.23	28.720		
1,200.00	1,193.06	1,133.21	1,116.94	4.22	4.53	146.95	148.77	-91.02	254.61	246.73	7.89	32.288		
1,244.60	1,236.24	1,171.21	1,153.16	4.43	4.74	148.43	160.16	-92.61	276.83	268.64	8.19	33.802		
1,300.00	1,289.78	1,218.20	1,197.94	4.71	5.01	150.29	174.25	-94.57	304.99	296.43	8.56	35.637		
1,400.00	1,386.43	1,303.02	1,278.78	5.21	5.50	152.93	199.68	-98.11	356.30	347.08	9.22	38.641		
1,500.00	1,483.07	1,387.83	1,359.61	5.73	6.00	154.91	225.11	-101.65	408.03	398.14	9.89	41.259		
1,600.00	1,579.71	1,472.65	1,440.45	6.25	6.50	156.45	250.54	-105.19	460.05	449.49	10.56	43.549		
1,700.00	1,676.35	1,557.46	1,521.29	6.78	7.00	157.69	275.97	-108.73	512.26	501.02	11.24	45.563		
1,800.00	1,772.99	1,642.28	1,602.12	7.32	7.51	158.69	301.40	-112.27	564.62	552.69	11.93	47.342		
1,900.00	1,869.63	1,727.09	1,682.96	7.86	8.02	159.53	326.83	-115.81	617.08	604.47	12.61	48.925		
2,000.00	1,966.27	1,811.91	1,763.79	8.41	8.52	160.23	352.26	-119.35	669.62	656.32	13.30	50.338		
2,100.00	2,062.91	1,903.28	1,844.63	8.96	9.07	160.84	377.69	-122.89	722.23	708.21	14.02	51.508		
2,200.00	2,159.55	1,981.54	1,925.47	9.51	9.54	161.36	403.12	-126.43	774.89	760.20	14.69	52.753		
2,300.00	2,256.20	2,066.35	2,006.30	10.06	10.06	161.81	428.55	-129.97	827.58	812.20	15.39	53.791		
2,400.00	2,352.84	2,151.17	2,087.14	10.61	10.57	162.22	453.98	-133.51	880.31	864.23	16.08	54.735		
2,500.00	2,449.48	2,235.98	2,167.97	11.17	11.08	162.57	479.41	-137.05	933.07	916.29	16.78	55.597		
2,600.00	2,546.12	2,320.80	2,248.81	11.72	11.60	162.89	504.84	-140.59	985.85	968.37	17.48	56.387		
2,700.00	2,642.76	2,405.62	2,329.65	12.28	12.11	163.18	530.27	-144.13	1,038.65	1,020.47	18.19	57.113		
2,800.00	2,739.40	2,490.43	2,410.48	12.84	12.63	163.43	555.70	-147.67	1,091.47	1,072.58	18.89	57.783		
2,900.00	2,836.04	2,575.25	2,491.32	13.40	13.14	163.67	581.13	-151.21	1,144.30	1,124.71	19.59	58.403		
3,000.00	2,932.68	2,660.06	2,572.15	13.96	13.66	163.88	606.56	-154.75	1,197.15	1,176.85	20.30	58.977		
3,100.00	3,029.33	2,744.88	2,652.99	14.52	14.17	164.08	631.99	-158.29	1,250.00	1,229.00	21.00	59.511		
3,200.00	3,125.97	2,829.69	2,733.83	15.08	14.69	164.26	657.41	-161.83	1,302.87	1,281.16	21.71	60.008		
3,300.00	3,222.61	2,914.51	2,814.66	15.64	15.21	164.42	682.84	-165.37	1,355.74	1,333.32	22.42	60.472		
3,400.00	3,319.25	3,000.68	2,895.50	16.21	15.73	164.58	708.27	-168.91	1,408.62	1,385.49	23.13	60.892		
3,500.00	3,415.89	3,084.14	2,976.33	16.77	16.24	164.72	733.70	-172.45	1,461.51	1,437.68	23.84	61.314		
3,600.00	3,512.53	3,168.95	3,057.17	17.33	16.76	164.85	759.13	-175.99	1,514.41	1,489.86	24.55	61.696		
3,700.00	3,609.17	3,253.77	3,138.01	17.89	17.28	164.98	784.56	-179.53	1,567.31	1,542.05	25.26	62.056		
3,800.00	3,705.81	3,338.58	3,218.84	18.46	17.79	165.09	809.99	-183.07	1,620.21	1,594.24	25.97	62.395		
3,900.00	3,802.46	3,423.40	3,299.68	19.02	18.31	165.20	835.42	-186.61	1,673.12	1,646.44	26.68	62.714		
4,000.00	3,899.10	3,508.21	3,380.51	19.59	18.83	165.30	860.85	-190.15	1,726.03	1,698.64	27.39	63.016		
4,100.00	3,995.74	3,606.97	3,461.35	20.15	19.43	165.40	886.28	-193.69	1,778.95	1,750.79	28.16	63.170		
4,200.00	4,092.38	3,677.85	3,542.18	20.71	19.87	165.49	911.71	-197.23	1,831.87	1,803.06	28.82	63.572		
4,300.00	4,189.02	3,762.66	3,623.02	21.28	20.38	165.57	937.14	-200.77	1,884.80	1,855.27	29.53	63.829		
4,400.00	4,285.66	3,847.48	3,703.86	21.84	20.90	165.65	962.57	-204.31	1,937.72	1,907.48	30.24	64.073		
4,500.00	4,382.30	3,932.29	3,784.69	22.41	21.42	165.73	988.00	-207.85	1,990.65	1,959.69	30.96	64.304		
4,600.00	4,478.94	4,017.11	3,865.53	22.97	21.94	165.80	1,013.43	-211.39	2,043.58	2,011.91	31.67	64.525		
4,700.00	4,575.59	4,101.92	3,946.36	23.54	22.46	165.87	1,038.86	-214.93	2,096.52	2,064.13	32.39	64.734		
4,800.00	4,672.23	4,186.74	4,027.20	24.10	22.98	165.93	1,064.29	-218.47	2,149.45	2,116.35	33.10	64.934		
4,900.00	4,768.87	4,271.55	4,108.04	24.67	23.50	165.99	1,089.72	-222.01	2,202.39	2,168.57	33.82	65.125		
5,000.00	4,865.51	4,356.37	4,188.87	25.24	24.01	166.05	1,115.15	-225.55	2,255.33	2,220.79	34.53	65.307		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	4,962.15	4,441.18	4,269.71	25.80	24.53	166.11	1,140.58	-229.09	2,308.27	2,273.02	35.25	65.481		
5,200.00	5,058.79	4,526.00	4,350.54	26.37	25.05	166.16	1,166.01	-232.63	2,361.21	2,325.24	35.97	65.648		
5,300.00	5,155.43	4,610.81	4,431.38	26.93	25.57	166.22	1,191.43	-236.17	2,414.15	2,377.47	36.69	65.807		
5,400.00	5,252.07	4,704.37	4,512.22	27.50	26.14	166.26	1,216.86	-239.71	2,467.10	2,429.66	37.44	65.894		
5,500.00	5,348.72	4,780.45	4,593.05	28.07	26.61	166.31	1,242.29	-243.25	2,520.05	2,481.92	38.12	66.105		
5,600.00	5,445.36	4,865.26	4,673.89	28.63	27.13	166.36	1,267.72	-246.79	2,572.99	2,534.15	38.84	66.245		
5,700.00	5,542.00	4,950.08	4,754.72	29.20	27.65	166.40	1,293.15	-250.33	2,625.94	2,586.38	39.56	66.380		
5,800.00	5,638.64	5,034.89	4,835.56	29.76	28.17	166.44	1,318.58	-253.87	2,678.89	2,638.61	40.28	66.509		
5,900.00	5,735.28	5,119.71	4,916.40	30.33	28.69	166.48	1,344.01	-257.41	2,731.84	2,690.84	41.00	66.632		
6,000.00	5,831.92	5,204.52	4,997.23	30.90	29.21	166.52	1,369.44	-260.95	2,784.79	2,743.08	41.72	66.751		
6,100.00	5,928.56	5,289.34	5,078.07	31.46	29.72	166.56	1,394.87	-264.49	2,837.75	2,795.31	42.44	66.865		
6,200.00	6,025.20	5,374.15	5,158.90	32.03	30.24	166.59	1,420.30	-268.03	2,890.70	2,847.54	43.16	66.975		
6,300.00	6,121.85	5,458.97	5,239.74	32.60	30.76	166.63	1,445.73	-271.57	2,943.65	2,899.77	43.88	67.081		
6,400.00	6,218.49	5,543.78	5,320.58	33.16	31.28	166.66	1,471.16	-275.11	2,996.61	2,952.01	44.60	67.182		
6,500.00	6,315.13	5,628.60	5,401.41	33.73	31.80	166.69	1,496.59	-278.65	3,049.57	3,004.24	45.33	67.280		
6,600.00	6,411.77	5,713.41	5,482.25	34.30	32.32	166.72	1,522.02	-282.19	3,102.52	3,056.47	46.05	67.374		
6,700.00	6,508.41	5,801.77	5,563.08	34.86	32.86	166.75	1,547.45	-285.73	3,155.48	3,108.69	46.79	67.443		
6,791.42	6,596.76	5,875.77	5,636.98	35.38	33.32	166.78	1,570.70	-288.97	3,203.89	3,156.46	47.43	67.545		
6,800.00	6,605.05	5,883.05	5,643.93	35.43	33.36	166.81	1,572.88	-289.27	3,208.43	3,160.93	47.50	67.552		
6,900.00	6,702.20	5,968.91	5,725.75	35.97	33.89	167.10	1,598.62	-292.86	3,259.68	3,211.46	48.22	67.601		
7,000.00	6,800.11	6,056.46	5,809.20	36.47	34.42	167.34	1,624.87	-296.51	3,307.99	3,259.04	48.94	67.586		
7,100.00	6,898.67	6,145.60	5,894.16	36.93	34.97	167.55	1,651.60	-300.23	3,353.28	3,303.61	49.67	67.510		
7,200.00	6,997.75	6,236.23	5,980.54	37.34	35.52	167.72	1,678.77	-304.01	3,395.51	3,345.12	50.40	67.375		
7,300.00	7,097.25	6,328.23	6,068.22	37.71	36.09	167.86	1,706.36	-307.85	3,434.63	3,383.51	51.12	67.186		
7,400.00	7,197.04	6,421.49	6,157.11	38.04	36.66	167.97	1,734.32	-311.75	3,470.59	3,418.75	51.84	66.945		
7,500.00	7,296.99	6,515.90	6,247.09	38.32	37.24	168.06	1,762.62	-315.69	3,503.34	3,450.78	52.56	66.656		
7,536.02	7,333.00	6,550.16	6,279.74	38.41	37.45	0.55	1,772.89	-317.12	3,514.35	3,461.54	52.81	66.547		
7,566.02	7,363.00	6,578.76	6,306.99	38.47	37.62	0.53	1,781.47	-318.31	3,523.34	3,470.32	53.02	66.458		
7,600.00	7,396.96	6,611.17	6,337.88	38.55	37.82	89.21	1,791.19	-319.66	3,533.52	3,480.27	53.26	66.351		
7,650.00	7,446.68	7,738.98	7,445.28	38.68	42.54	89.85	1,964.58	-349.74	3,544.31	3,485.08	59.22	59.849		
7,700.00	7,495.77	7,788.14	7,493.58	38.82	42.65	89.85	1,964.62	-358.87	3,544.31	3,484.74	59.56	59.505		
7,750.00	7,543.84	7,837.33	7,540.93	38.97	42.78	89.85	1,964.68	-372.12	3,544.31	3,484.38	59.93	59.144		
7,800.00	7,590.54	7,886.54	7,586.99	39.12	42.91	89.86	1,964.75	-389.39	3,544.31	3,483.99	60.31	58.764		
7,850.00	7,635.50	7,935.77	7,631.43	39.27	43.04	89.86	1,964.84	-410.56	3,544.31	3,483.58	60.73	58.365		
7,900.00	7,678.39	7,985.04	7,673.91	39.44	43.18	89.87	1,964.95	-435.48	3,544.31	3,483.14	61.17	57.943		
7,950.00	7,718.88	8,034.35	7,714.13	39.60	43.32	89.88	1,965.08	-463.98	3,544.31	3,482.66	61.65	57.492		
8,000.00	7,756.67	8,083.70	7,751.78	39.78	43.48	89.89	1,965.22	-495.87	3,544.31	3,482.13	62.17	57.007		
8,050.00	7,791.45	8,133.10	7,786.58	39.96	43.63	89.90	1,965.38	-530.91	3,544.31	3,481.56	62.75	56.483		
8,100.00	7,822.98	8,182.56	7,818.27	40.15	43.80	89.91	1,965.54	-568.86	3,544.31	3,480.92	63.39	55.913		
8,150.00	7,851.01	8,232.07	7,846.60	40.35	43.98	89.92	1,965.72	-609.45	3,544.31	3,480.21	64.10	55.293		
8,200.00	7,875.32	8,281.65	7,871.35	40.57	44.18	89.93	1,965.91	-652.38	3,544.31	3,479.42	64.89	54.620		
8,250.00	7,895.74	8,331.28	7,892.32	40.81	44.39	89.94	1,966.11	-697.36	3,544.31	3,478.55	65.76	53.896		
8,300.00	7,912.10	8,380.99	7,909.34	41.06	44.62	89.95	1,966.31	-744.04	3,544.31	3,477.59	66.72	53.122		
8,350.00	7,924.28	8,430.77	7,922.27	41.34	44.87	89.97	1,966.53	-792.09	3,544.32	3,476.55	67.76	52.305		
8,400.00	7,932.19	8,480.62	7,930.99	41.65	45.15	89.98	1,966.74	-841.16	3,544.32	3,475.44	68.88	51.455		
8,450.00	7,935.77	8,530.54	7,935.41	41.99	45.45	89.99	1,966.96	-890.87	3,544.32	3,474.25	70.07	50.582		
8,466.09	7,936.00	8,546.63	7,935.92	42.10	45.56	90.00	1,967.03	-906.95	3,544.32	3,473.86	70.46	50.300		
8,500.00	7,936.00	8,580.53	7,936.00	42.35	45.79	90.00	1,967.18	-940.85	3,544.32	3,473.00	71.32	49.694		
8,600.00	7,936.00	8,680.53	7,936.00	43.20	46.54	90.00	1,967.62	-1,040.85	3,544.33	3,470.27	74.06	47.855		
8,700.00	7,936.00	8,780.53	7,936.00	44.20	47.43	90.00	1,968.06	-1,140.85	3,544.33	3,467.26	77.08	45.985		
8,800.00	7,935.99	8,880.53	7,936.00	45.35	48.45	90.00	1,968.50	-1,240.85	3,544.34	3,464.00	80.34	44.118		
8,900.00	7,935.99	8,980.53	7,935.99	46.65	49.60	90.00	1,968.94	-1,340.85	3,544.34	3,460.53	83.82	42.287		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-6S 5-6-1 - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,000.00	7,935.99	9,080.53	7,935.99	48.10	50.89	90.00	1,969.38	-1,440.85	3,544.35	3,456.86	87.49	40.512				
9,100.00	7,935.99	9,180.53	7,935.99	49.67	52.31	90.00	1,969.82	-1,540.84	3,544.36	3,453.02	91.33	38.807				
9,200.00	7,935.99	9,280.53	7,935.99	51.37	53.85	90.00	1,970.26	-1,640.84	3,544.36	3,449.04	95.32	37.182				
9,300.00	7,935.99	9,380.53	7,935.99	53.16	55.49	90.00	1,970.70	-1,740.84	3,544.37	3,444.92	99.45	35.641				
9,400.00	7,935.98	9,480.53	7,935.99	55.05	57.24	90.00	1,971.14	-1,840.84	3,544.37	3,440.69	103.69	34.184				
9,500.00	7,935.98	9,580.53	7,935.99	57.02	59.07	90.00	1,971.59	-1,940.84	3,544.38	3,436.35	108.03	32.810				
9,600.00	7,935.98	9,680.53	7,935.98	59.06	60.98	90.00	1,972.03	-2,040.84	3,544.38	3,431.93	112.46	31.518				
9,700.00	7,935.98	9,780.53	7,935.98	61.16	62.96	90.00	1,972.47	-2,140.84	3,544.39	3,427.42	116.97	30.302				
9,800.00	7,935.98	9,880.53	7,935.98	63.31	65.00	90.00	1,972.91	-2,240.84	3,544.39	3,422.84	121.55	29.160				
9,900.00	7,935.97	9,980.53	7,935.98	65.50	67.09	90.00	1,973.35	-2,340.84	3,544.40	3,418.20	126.19	28.087				
10,000.00	7,935.97	10,080.53	7,935.98	67.74	69.23	90.00	1,973.79	-2,440.84	3,544.40	3,413.51	130.90	27.078				
10,100.00	7,935.97	10,180.53	7,935.98	70.02	71.42	90.00	1,974.23	-2,540.84	3,544.41	3,408.76	135.65	26.130				
10,200.00	7,935.97	10,280.53	7,935.98	72.32	73.65	90.00	1,974.67	-2,640.83	3,544.41	3,403.97	140.45	25.237				
10,300.00	7,935.97	10,380.53	7,935.97	74.66	75.91	90.00	1,975.11	-2,740.83	3,544.42	3,399.13	145.28	24.397				
10,400.00	7,935.97	10,480.53	7,935.97	77.02	78.20	90.00	1,975.55	-2,840.83	3,544.42	3,394.26	150.16	23.604				
10,500.00	7,935.96	10,580.53	7,935.97	79.41	80.51	90.00	1,975.99	-2,940.83	3,544.43	3,389.36	155.07	22.857				
10,600.00	7,935.96	10,680.53	7,935.97	81.81	82.86	90.00	1,976.43	-3,040.83	3,544.43	3,384.43	160.01	22.151				
10,700.00	7,935.96	10,780.53	7,935.97	84.24	85.22	90.00	1,976.87	-3,140.83	3,544.44	3,379.46	164.98	21.485				
10,800.00	7,935.96	10,880.53	7,935.97	86.68	87.61	90.00	1,977.31	-3,240.83	3,544.44	3,374.48	169.97	20.853				
10,900.00	7,935.96	10,980.53	7,935.97	89.14	90.02	90.00	1,977.75	-3,340.83	3,544.45	3,369.46	174.99	20.256				
11,000.00	7,935.95	11,080.53	7,935.96	91.61	92.44	90.00	1,978.19	-3,440.83	3,544.46	3,364.43	180.02	19.689				
11,100.00	7,935.95	11,180.53	7,935.96	94.10	94.88	90.00	1,978.63	-3,540.83	3,544.46	3,359.38	185.08	19.151				
11,200.00	7,935.95	11,280.53	7,935.96	96.59	97.33	90.00	1,979.07	-3,640.82	3,544.47	3,354.31	190.15	18.640				
11,300.00	7,935.95	11,380.53	7,935.96	99.10	99.80	90.00	1,979.51	-3,740.82	3,544.47	3,349.23	195.24	18.154				
11,400.00	7,935.95	11,480.53	7,935.96	101.62	102.27	90.00	1,979.95	-3,840.82	3,544.48	3,344.12	200.35	17.691				
11,500.00	7,935.95	11,580.53	7,935.96	104.15	104.76	90.00	1,980.39	-3,940.82	3,544.48	3,339.01	205.47	17.250				
11,600.00	7,935.94	11,680.53	7,935.96	106.68	107.26	90.00	1,980.83	-4,040.82	3,544.49	3,333.88	210.61	16.830				
11,700.00	7,935.94	11,780.53	7,935.95	109.23	109.77	90.00	1,981.28	-4,140.82	3,544.49	3,328.74	215.75	16.429				
11,800.00	7,935.94	11,880.53	7,935.95	111.78	112.29	90.00	1,981.72	-4,240.82	3,544.50	3,323.59	220.91	16.045				
11,900.00	7,935.94	11,980.53	7,935.95	114.33	114.82	90.00	1,982.16	-4,340.82	3,544.50	3,318.43	226.08	15.678				
12,000.00	7,935.94	12,080.53	7,935.95	116.90	117.35	90.00	1,982.60	-4,440.82	3,544.51	3,313.25	231.25	15.327				
12,100.00	7,935.93	12,180.53	7,935.95	119.47	119.89	90.00	1,983.04	-4,540.82	3,544.51	3,308.07	236.44	14.991				
12,200.00	7,935.93	12,280.53	7,935.95	122.04	122.44	90.00	1,983.48	-4,640.81	3,544.52	3,302.88	241.64	14.669				
12,300.00	7,935.93	12,380.53	7,935.95	124.63	124.99	90.00	1,983.92	-4,740.81	3,544.52	3,297.69	246.84	14.360				
12,400.00	7,935.93	12,480.53	7,935.94	127.21	127.55	90.00	1,984.36	-4,840.81	3,544.53	3,292.48	252.05	14.063				
12,500.00	7,935.93	12,580.53	7,935.94	129.80	130.12	90.00	1,984.80	-4,940.81	3,544.53	3,287.27	257.27	13.778				
12,600.00	7,935.93	12,680.53	7,935.94	132.40	132.69	90.00	1,985.24	-5,040.81	3,544.54	3,282.05	262.49	13.503				
12,700.00	7,935.92	12,780.53	7,935.94	135.00	135.26	90.00	1,985.68	-5,140.81	3,544.54	3,276.82	267.72	13.240				
12,800.00	7,935.92	12,880.53	7,935.94	137.60	137.84	90.00	1,986.12	-5,240.81	3,544.55	3,271.59	272.96	12.986				
12,900.00	7,935.92	12,980.53	7,935.94	140.20	140.43	90.00	1,986.56	-5,340.81	3,544.56	3,266.35	278.20	12.741				
13,000.00	7,935.92	13,080.53	7,935.94	142.81	143.02	90.00	1,987.00	-5,440.81	3,544.56	3,261.11	283.45	12.505				
13,100.00	7,935.92	13,180.53	7,935.93	145.43	145.61	90.00	1,987.44	-5,540.81	3,544.57	3,255.86	288.70	12.278				
13,200.00	7,935.91	13,280.53	7,935.93	148.04	148.21	90.00	1,987.88	-5,640.81	3,544.57	3,250.61	293.96	12.058				
13,300.00	7,935.91	13,380.53	7,935.93	150.66	150.80	90.00	1,988.32	-5,740.80	3,544.58	3,245.36	299.22	11.846				
13,400.00	7,935.91	13,480.53	7,935.93	153.28	153.41	90.00	1,988.76	-5,840.80	3,544.58	3,240.09	304.49	11.641				
13,500.00	7,935.91	13,580.53	7,935.93	155.90	156.01	90.00	1,989.20	-5,940.80	3,544.59	3,234.83	309.76	11.443				
13,600.00	7,935.91	13,680.53	7,935.93	158.53	158.62	90.00	1,989.64	-6,040.80	3,544.59	3,229.56	315.03	11.252				
13,700.00	7,935.91	13,780.53	7,935.93	161.16	161.23	90.00	1,990.08	-6,140.80	3,544.60	3,224.29	320.31	11.066				
13,800.00	7,935.90	13,880.53	7,935.92	163.79	163.85	90.00	1,990.52	-6,240.80	3,544.60	3,219.01	325.59	10.887				
13,900.00	7,935.90	13,980.53	7,935.92	166.42	166.46	90.00	1,990.97	-6,340.80	3,544.61	3,213.73	330.87	10.713				
14,000.00	7,935.90	14,080.53	7,935.92	169.05	169.08	90.00	1,991.41	-6,440.80	3,544.61	3,208.45	336.16	10.544				
14,100.00	7,935.90	14,180.53	7,935.92	171.69	171.70	90.00	1,991.85	-6,540.80	3,544.62	3,203.17	341.45	10.381				

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 5-6-10
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 5-6-10	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		
14,200.00	7,935.90	14,280.53	7,935.92	174.33	174.32	90.00	1,992.29	-6,640.80	3,544.62	3,197.88	346.74	10.223		
14,300.00	7,935.89	14,380.53	7,935.92	176.97	176.95	90.00	1,992.73	-6,740.79	3,544.63	3,192.59	352.04	10.069		
14,400.00	7,935.89	14,480.53	7,935.92	179.61	179.58	90.00	1,993.17	-6,840.79	3,544.63	3,187.30	357.34	9.920		
14,500.00	7,935.89	14,580.53	7,935.91	182.25	182.21	90.00	1,993.61	-6,940.79	3,544.64	3,182.00	362.64	9.775		
14,600.00	7,935.89	14,680.53	7,935.91	184.90	184.84	90.00	1,994.05	-7,040.79	3,544.64	3,176.70	367.94	9.634		
14,700.00	7,935.89	14,780.53	7,935.91	187.54	187.47	90.00	1,994.49	-7,140.79	3,544.65	3,171.40	373.25	9.497		
14,800.00	7,935.89	14,880.53	7,935.91	190.19	190.10	90.00	1,994.93	-7,240.79	3,544.65	3,166.10	378.56	9.364		
14,900.00	7,935.88	14,980.53	7,935.91	192.84	192.74	90.00	1,995.37	-7,340.79	3,544.66	3,160.79	383.87	9.234		
15,000.00	7,935.88	15,080.53	7,935.91	195.49	195.38	90.00	1,995.81	-7,440.79	3,544.67	3,155.49	389.18	9.108		
15,100.00	7,935.88	15,180.53	7,935.91	198.14	198.01	90.00	1,996.25	-7,540.79	3,544.67	3,150.18	394.49	8.985		
15,200.00	7,935.88	15,280.53	7,935.90	200.79	200.66	90.00	1,996.69	-7,640.79	3,544.68	3,144.87	399.81	8.866		
15,300.00	7,935.88	15,380.53	7,935.90	203.44	203.30	90.00	1,997.13	-7,740.78	3,544.68	3,139.56	405.13	8.750		
15,400.00	7,935.87	15,480.53	7,935.90	206.10	205.94	90.00	1,997.57	-7,840.78	3,544.69	3,134.24	410.44	8.636		
15,500.00	7,935.87	15,580.53	7,935.90	208.75	208.58	90.00	1,998.01	-7,940.78	3,544.69	3,128.93	415.77	8.526		
15,600.00	7,935.87	15,680.53	7,935.90	211.41	211.23	90.00	1,998.45	-8,040.78	3,544.70	3,123.61	421.09	8.418		
15,700.00	7,935.87	15,780.53	7,935.90	214.07	213.87	90.00	1,998.89	-8,140.78	3,544.70	3,118.29	426.41	8.313		
15,800.00	7,935.87	15,880.53	7,935.90	216.72	216.52	90.00	1,999.33	-8,240.78	3,544.71	3,112.97	431.74	8.210		
15,900.00	7,935.87	15,980.53	7,935.89	219.38	219.17	90.00	1,999.77	-8,340.78	3,544.71	3,107.65	437.06	8.110		
16,000.00	7,935.86	16,080.53	7,935.89	222.04	221.82	90.00	2,000.21	-8,440.78	3,544.72	3,102.33	442.39	8.013		
16,100.00	7,935.86	16,180.53	7,935.89	224.70	224.47	90.00	2,000.66	-8,540.78	3,544.72	3,097.00	447.72	7.917		
16,200.00	7,935.86	16,280.53	7,935.89	227.37	227.12	90.00	2,001.10	-8,640.78	3,544.73	3,091.68	453.05	7.824		
16,300.00	7,935.86	16,380.53	7,935.89	230.03	229.77	90.00	2,001.54	-8,740.78	3,544.73	3,086.35	458.38	7.733		
16,400.00	7,935.86	16,480.53	7,935.89	232.69	232.43	90.00	2,001.98	-8,840.77	3,544.74	3,081.02	463.72	7.644		
16,500.00	7,935.85	16,580.53	7,935.89	235.35	235.08	90.00	2,002.42	-8,940.77	3,544.74	3,075.69	469.05	7.557		
16,600.00	7,935.85	16,680.53	7,935.88	238.02	237.74	90.00	2,002.86	-9,040.77	3,544.75	3,070.36	474.39	7.472		
16,700.00	7,935.85	16,780.53	7,935.88	240.68	240.39	90.00	2,003.30	-9,140.77	3,544.75	3,065.03	479.72	7.389		
16,800.00	7,935.85	16,880.53	7,935.88	243.35	243.05	90.00	2,003.74	-9,240.77	3,544.76	3,059.70	485.06	7.308		
16,900.00	7,935.85	16,980.53	7,935.88	246.01	245.70	90.00	2,004.18	-9,340.77	3,544.77	3,054.37	490.40	7.228		
17,000.00	7,935.85	17,080.53	7,935.88	248.68	248.36	90.00	2,004.62	-9,440.77	3,544.77	3,049.03	495.74	7.150		
17,100.00	7,935.84	17,180.53	7,935.88	251.35	251.02	90.00	2,005.06	-9,540.77	3,544.78	3,043.70	501.08	7.074		
17,200.00	7,935.84	17,280.53	7,935.88	254.02	253.68	90.00	2,005.50	-9,640.77	3,544.78	3,038.36	506.42	7.000		
17,300.00	7,935.84	17,380.53	7,935.87	256.69	256.34	90.00	2,005.94	-9,740.77	3,544.79	3,033.02	511.76	6.927		
17,400.00	7,935.84	17,480.53	7,935.87	259.35	259.00	90.00	2,006.38	-9,840.76	3,544.79	3,027.69	517.11	6.855		
17,500.00	7,935.84	17,580.53	7,935.87	262.02	261.66	90.00	2,006.82	-9,940.76	3,544.80	3,022.35	522.45	6.785		
17,600.00	7,935.83	17,680.53	7,935.87	264.69	264.32	90.00	2,007.26	-10,040.76	3,544.80	3,017.01	527.79	6.716		
17,700.00	7,935.83	17,780.53	7,935.87	267.36	266.98	90.00	2,007.70	-10,140.76	3,544.81	3,011.67	533.14	6.649		
17,800.00	7,935.83	17,880.53	7,935.87	270.03	269.65	90.00	2,008.14	-10,240.76	3,544.81	3,006.33	538.49	6.583		
17,900.00	7,935.83	17,980.53	7,935.87	272.71	272.31	90.00	2,008.58	-10,340.76	3,544.82	3,000.98	543.83	6.518		
18,000.00	7,935.83	18,080.53	7,935.86	275.38	274.97	90.00	2,009.02	-10,440.76	3,544.82	2,995.64	549.18	6.455		
18,100.00	7,935.83	18,180.53	7,935.86	278.05	277.64	90.00	2,009.46	-10,540.76	3,544.83	2,990.30	554.53	6.393		
18,153.00	7,936.00	18,239.20	7,936.00	279.47	279.20	90.00	2,009.38	-10,599.42	3,544.34	2,986.83	557.51	6.357 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	400.09	400.07	1.21	1.20	95.07	-1.72	19.36	19.44	17.04	2.40	8.087		
444.40	444.40	444.46	444.40	1.37	1.35	100.66	-3.58	19.01	19.35	16.63	2.71	7.127 CC		
500.00	500.00	499.93	499.77	1.57	1.54	110.43	-6.85	18.40	19.63	16.53	3.10	6.327		
600.00	599.98	599.45	598.90	1.91	1.89	-63.90	-15.37	16.80	21.97	18.17	3.80	5.782		
700.00	699.84	698.73	697.44	2.25	2.27	-50.48	-27.23	14.56	26.09	21.60	4.49	5.809		
800.00	799.45	797.77	795.27	2.59	2.67	-41.25	-42.39	11.71	31.28	26.09	5.19	6.025		
900.00	898.70	896.58	892.28	2.96	3.11	-34.93	-60.83	8.24	37.07	31.17	5.90	6.285		
1,000.00	997.47	995.16	988.36	3.35	3.57	-30.51	-82.48	4.16	43.20	36.59	6.61	6.535		
1,100.00	1,095.62	1,093.51	1,083.40	3.77	4.07	-27.33	-107.31	-0.51	49.52	42.19	7.33	6.755		
1,200.00	1,193.06	1,191.64	1,177.31	4.22	4.61	-24.99	-135.27	-5.77	55.94	47.88	8.06	6.941		
1,244.60	1,236.24	1,235.65	1,219.12	4.43	4.87	-24.17	-148.78	-8.31	58.78	50.38	8.40	7.001		
1,300.00	1,289.78	1,309.05	1,271.60	4.71	5.30	-23.37	-165.90	-11.54	62.06	53.15	8.91	6.962		
1,400.00	1,386.43	1,390.76	1,366.33	5.21	5.79	-22.13	-196.80	-17.35	68.02	58.38	9.64	7.057		
1,500.00	1,483.07	1,509.43	1,461.06	5.73	6.51	-21.08	-227.70	-23.17	74.00	63.48	10.53	7.030		
1,600.00	1,579.71	1,609.61	1,555.79	6.25	7.13	-20.19	-258.61	-28.99	80.01	68.67	11.34	7.056		
1,700.00	1,676.35	1,709.80	1,650.52	6.78	7.75	-19.43	-289.51	-34.80	86.03	73.88	12.16	7.078		
1,800.00	1,772.99	1,809.99	1,745.25	7.32	8.38	-18.77	-320.41	-40.62	92.07	79.09	12.97	7.096		
1,900.00	1,869.63	1,889.82	1,839.98	7.86	8.88	-18.18	-351.31	-46.43	98.11	84.41	13.71	7.159		
2,000.00	1,966.27	1,989.64	1,934.71	8.41	9.51	-17.67	-382.22	-52.25	104.17	89.64	14.52	7.172		
2,100.00	2,062.91	2,089.45	2,029.44	8.96	10.14	-17.21	-413.12	-58.07	110.23	94.88	15.35	7.183		
2,200.00	2,159.55	2,189.26	2,124.17	9.51	10.78	-16.80	-444.02	-63.88	116.30	100.13	16.17	7.193		
2,300.00	2,256.20	2,289.07	2,218.90	10.06	11.41	-16.43	-474.92	-69.70	122.37	105.38	16.99	7.202		
2,400.00	2,352.84	2,388.89	2,313.63	10.61	12.05	-16.10	-505.83	-75.52	128.45	110.63	17.81	7.210		
2,500.00	2,449.48	2,488.70	2,408.36	11.17	12.69	-15.79	-536.73	-81.33	134.53	115.89	18.64	7.217		
2,600.00	2,546.12	2,588.51	2,503.09	11.72	13.32	-15.51	-567.63	-87.15	140.62	121.15	19.47	7.224		
2,700.00	2,642.76	2,688.32	2,597.82	12.28	13.96	-15.26	-598.54	-92.96	146.70	126.41	20.29	7.230		
2,800.00	2,739.40	2,788.14	2,692.55	12.84	14.60	-15.03	-629.44	-98.78	152.80	131.68	21.12	7.236		
2,900.00	2,836.04	2,887.95	2,787.28	13.40	15.24	-14.81	-660.34	-104.60	158.89	136.95	21.94	7.241		
3,000.00	2,932.68	2,987.76	2,882.01	13.96	15.88	-14.61	-691.24	-110.41	164.99	142.21	22.77	7.245		
3,100.00	3,029.33	3,087.57	2,976.74	14.52	16.52	-14.42	-722.15	-116.23	171.08	147.48	23.60	7.249		
3,200.00	3,125.97	3,187.39	3,071.47	15.08	17.16	-14.25	-753.05	-122.05	177.18	152.75	24.43	7.253		
3,300.00	3,222.61	3,287.20	3,166.20	15.64	17.80	-14.09	-783.95	-127.86	183.28	158.03	25.26	7.257		
3,400.00	3,319.25	3,387.01	3,260.93	16.21	18.45	-13.93	-814.85	-133.68	189.38	163.30	26.08	7.260		
3,500.00	3,415.89	3,486.82	3,355.66	16.77	19.09	-13.79	-845.76	-139.49	195.49	168.58	26.91	7.264		
3,600.00	3,512.53	3,586.64	3,450.39	17.33	19.73	-13.66	-876.66	-145.31	201.59	173.85	27.74	7.267		
3,700.00	3,609.17	3,686.45	3,545.12	17.89	20.37	-13.53	-907.56	-151.13	207.70	179.13	28.57	7.269		
3,800.00	3,705.81	3,786.26	3,639.85	18.46	21.02	-13.42	-938.46	-156.94	213.80	184.40	29.40	7.272		
3,900.00	3,802.46	3,886.07	3,734.58	19.02	21.66	-13.30	-969.37	-162.76	219.91	189.68	30.23	7.274		
4,000.00	3,899.10	3,985.89	3,829.31	19.59	22.30	-13.20	-1,000.27	-168.58	226.02	194.96	31.06	7.277		
4,100.00	3,995.74	4,085.70	3,924.04	20.15	22.95	-13.10	-1,031.17	-174.39	232.13	200.24	31.89	7.279		
4,200.00	4,092.38	4,185.51	4,018.77	20.71	23.59	-13.00	-1,062.07	-180.21	238.24	205.52	32.72	7.281		
4,300.00	4,189.02	4,285.32	4,113.50	21.28	24.23	-12.91	-1,092.98	-186.02	244.35	210.80	33.55	7.283		
4,400.00	4,285.66	4,385.14	4,208.23	21.84	24.88	-12.83	-1,123.88	-191.84	250.46	216.08	34.38	7.285		
4,500.00	4,382.30	4,484.95	4,302.96	22.41	25.52	-12.74	-1,154.78	-197.66	256.57	221.36	35.21	7.286		
4,600.00	4,478.94	4,584.76	4,397.69	22.97	26.17	-12.67	-1,185.69	-203.47	262.68	226.64	36.04	7.288		
4,700.00	4,575.59	4,684.57	4,492.42	23.54	26.81	-12.59	-1,216.59	-209.29	268.79	231.92	36.87	7.289		
4,800.00	4,672.23	4,784.39	4,587.15	24.10	27.45	-12.52	-1,247.49	-215.11	274.91	237.20	37.71	7.291		
4,900.00	4,768.87	4,884.20	4,681.88	24.67	28.10	-12.45	-1,278.39	-220.92	281.02	242.48	38.54	7.292		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	4,865.51	4,984.01	4,776.60	25.24	28.74	-12.39	-1,309.30	-226.74	287.13	247.77	39.37	7.294		
5,100.00	4,962.15	5,083.82	4,871.33	25.80	29.39	-12.32	-1,340.20	-232.55	293.25	253.05	40.20	7.295		
5,200.00	5,058.79	5,183.63	4,966.06	26.37	30.03	-12.27	-1,371.10	-238.37	299.36	258.33	41.03	7.296		
5,300.00	5,155.43	5,283.45	5,060.79	26.93	30.68	-12.21	-1,402.00	-244.19	305.48	263.61	41.86	7.297		
5,400.00	5,252.07	5,383.26	5,155.52	27.50	31.32	-12.15	-1,432.91	-250.00	311.59	268.90	42.69	7.298		
5,500.00	5,348.72	5,483.07	5,250.25	28.07	31.97	-12.10	-1,463.81	-255.82	317.71	274.18	43.52	7.299		
5,600.00	5,445.36	5,582.88	5,344.98	28.63	32.61	-12.05	-1,494.71	-261.64	323.82	279.46	44.36	7.300		
5,700.00	5,542.00	5,682.70	5,439.71	29.20	33.25	-12.00	-1,525.61	-267.45	329.94	284.75	45.19	7.301		
5,800.00	5,638.64	5,782.51	5,534.44	29.76	33.90	-11.95	-1,556.52	-273.27	336.05	290.03	46.02	7.302		
5,900.00	5,735.28	5,882.32	5,629.17	30.33	34.54	-11.91	-1,587.42	-279.09	342.17	295.32	46.85	7.303		
6,000.00	5,831.92	5,982.13	5,723.90	30.90	35.19	-11.86	-1,618.32	-284.90	348.28	300.60	47.68	7.304		
6,100.00	5,928.56	6,081.95	5,818.63	31.46	35.83	-11.82	-1,649.22	-290.72	354.40	305.89	48.52	7.305		
6,200.00	6,025.20	6,181.76	5,913.36	32.03	36.48	-11.78	-1,680.13	-296.53	360.52	311.17	49.35	7.306		
6,300.00	6,121.85	6,281.57	6,008.09	32.60	37.12	-11.74	-1,711.03	-302.35	366.63	316.46	50.18	7.307		
6,400.00	6,218.49	6,381.38	6,102.82	33.16	37.77	-11.70	-1,741.93	-308.17	372.75	321.74	51.01	7.307		
6,500.00	6,315.13	6,481.20	6,197.55	33.73	38.41	-11.66	-1,772.83	-313.98	378.87	327.03	51.84	7.308		
6,600.00	6,411.77	6,581.01	6,292.28	34.30	39.06	-11.63	-1,803.74	-319.80	384.99	332.31	52.68	7.309		
6,700.00	6,508.41	6,681.40	6,387.56	34.86	39.71	-11.59	-1,834.82	-325.65	391.10	337.59	53.51	7.308		
6,791.42	6,596.76	6,787.02	6,488.44	35.38	40.36	-11.61	-1,865.55	-331.43	394.90	340.51	54.39	7.260		
6,800.00	6,605.05	6,796.95	6,497.98	35.43	40.42	-11.61	-1,868.24	-331.94	395.10	340.62	54.47	7.253		
6,900.00	6,702.20	6,912.70	6,608.88	35.97	41.07	-11.69	-1,897.32	-337.41	397.11	341.76	55.35	7.175		
7,000.00	6,800.11	7,028.53	6,722.96	36.47	41.66	-11.76	-1,921.94	-342.05	398.56	342.44	56.12	7.102		
7,100.00	6,898.67	7,144.42	6,837.02	36.93	42.19	-11.83	-1,942.06	-345.83	399.44	342.66	56.79	7.034		
7,200.00	6,997.75	7,260.34	6,951.85	37.34	42.66	-11.90	-1,957.63	-348.76	399.76	342.41	57.35	6.970		
7,300.00	7,097.25	7,376.26	7,067.22	37.71	43.06	-11.96	-1,968.63	-350.83	399.51	341.70	57.81	6.911		
7,400.00	7,197.04	7,492.15	7,182.92	38.04	43.41	-12.01	-1,975.03	-352.04	398.69	340.53	58.16	6.855		
7,500.00	7,296.99	7,606.25	7,296.99	38.32	43.66	-12.06	-1,976.85	-352.38	397.33	338.90	58.43	6.800		
7,535.73	7,332.72	7,641.94	7,332.68	38.41	43.73	-179.56	-1,976.85	-352.62	397.11	338.48	58.64	6.772		
7,536.02	7,333.00	7,642.22	7,332.96	38.41	43.73	-179.56	-1,976.85	-352.63	397.11	338.47	58.64	6.772		
7,566.02	7,363.00	7,672.07	7,362.76	38.47	43.80	-179.32	-1,976.84	-354.29	397.12	338.34	58.78	6.757		
7,600.00	7,396.96	7,705.68	7,396.16	38.55	43.87	-89.17	-1,976.83	-358.02	397.15	338.22	58.93	6.739		
7,650.00	7,446.68	7,754.86	7,444.49	38.68	43.99	-88.59	-1,976.79	-366.97	397.23	338.03	59.20	6.710		
7,700.00	7,495.77	7,803.70	7,491.57	38.82	44.12	-88.03	-1,976.73	-379.94	397.34	337.83	59.52	6.676		
7,750.00	7,543.84	7,852.23	7,537.08	38.97	44.25	-87.48	-1,976.65	-396.75	397.49	337.62	59.87	6.639		
7,800.00	7,590.54	7,900.47	7,580.75	39.12	44.38	-86.95	-1,976.56	-417.21	397.67	337.40	60.27	6.599		
7,850.00	7,635.50	7,948.42	7,622.30	39.27	44.52	-86.45	-1,976.46	-441.12	397.87	337.17	60.70	6.555		
7,900.00	7,678.39	7,996.12	7,661.50	39.44	44.66	-85.97	-1,976.34	-468.26	398.09	336.92	61.17	6.508		
7,950.00	7,718.88	8,043.57	7,698.13	39.60	44.81	-85.52	-1,976.20	-498.41	398.32	336.62	61.69	6.456		
8,000.00	7,756.67	8,090.81	7,731.99	39.78	44.96	-85.11	-1,976.06	-531.32	398.55	336.28	62.27	6.401		
8,050.00	7,791.45	8,137.84	7,762.90	39.96	45.12	-84.74	-1,975.90	-566.76	398.78	335.87	62.91	6.339		
8,100.00	7,822.98	8,184.69	7,790.70	40.15	45.28	-84.40	-1,975.73	-604.45	399.00	335.38	63.62	6.272		
8,150.00	7,851.01	8,231.38	7,815.24	40.35	45.45	-84.10	-1,975.56	-644.16	399.20	334.78	64.42	6.197		
8,200.00	7,875.32	8,277.94	7,836.42	40.57	45.63	-83.84	-1,975.37	-685.61	399.39	334.08	65.31	6.115		
8,250.00	7,895.74	8,324.39	7,854.13	40.81	45.82	-83.63	-1,975.18	-728.53	399.54	333.25	66.30	6.027		
8,300.00	7,912.10	8,370.74	7,868.27	41.06	46.03	-83.47	-1,974.99	-772.66	399.67	332.28	67.39	5.931		
8,350.00	7,924.28	8,417.02	7,878.80	41.34	46.25	-83.35	-1,974.79	-817.72	399.76	331.19	68.57	5.830		
8,400.00	7,932.19	8,463.26	7,885.64	41.65	46.50	-83.27	-1,974.58	-863.43	399.82	329.97	69.85	5.724		
8,450.00	7,935.77	8,509.47	7,888.78	41.99	46.76	-83.25	-1,974.38	-909.53	399.84	328.63	71.21	5.615		
8,466.09	7,936.00	8,526.40	7,889.00	42.10	46.86	-83.25	-1,974.31	-924.32	399.83	328.15	71.69	5.578		
8,500.00	7,936.00	8,558.17	7,889.00	42.35	47.05	-83.25	-1,974.16	-958.22	399.83	327.29	72.54	5.512		
8,600.00	7,936.00	8,658.17	7,889.00	43.20	47.74	-83.25	-1,973.72	-1,058.22	399.82	324.51	75.31	5.309		
8,700.00	7,936.00	8,758.17	7,889.00	44.20	48.55	-83.25	-1,973.28	-1,158.22	399.81	321.47	78.35	5.103		

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 5-6-10
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 5-6-10	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	7,935.99	8,858.17	7,889.00	45.35	49.49	-83.25	-1,972.83	-1,258.22	399.81	318.19	81.62	4.898		
8,900.00	7,935.99	8,958.17	7,889.00	46.65	50.56	-83.25	-1,972.39	-1,358.22	399.80	314.69	85.10	4.698		
9,000.00	7,935.99	9,058.17	7,888.99	48.10	51.77	-83.25	-1,971.95	-1,458.21	399.79	311.02	88.77	4.503		
9,100.00	7,935.99	9,158.17	7,888.99	49.67	53.11	-83.25	-1,971.50	-1,558.21	399.78	307.17	92.61	4.317		
9,200.00	7,935.99	9,258.17	7,888.99	51.37	54.58	-83.25	-1,971.06	-1,658.21	399.78	303.19	96.59	4.139		
9,300.00	7,935.99	9,358.17	7,888.99	53.16	56.17	-83.25	-1,970.62	-1,758.21	399.77	299.08	100.69	3.970		
9,400.00	7,935.98	9,458.17	7,888.99	55.05	57.86	-83.25	-1,970.18	-1,858.21	399.76	294.85	104.91	3.811		
9,500.00	7,935.98	9,558.17	7,888.99	57.02	59.65	-83.25	-1,969.73	-1,958.21	399.75	290.53	109.23	3.660		
9,600.00	7,935.98	9,658.17	7,888.99	59.06	61.53	-83.25	-1,969.29	-2,058.21	399.75	286.11	113.63	3.518		
9,700.00	7,935.98	9,758.17	7,888.99	61.16	63.48	-83.25	-1,968.85	-2,158.20	399.74	281.62	118.12	3.384		
9,800.00	7,935.98	9,858.17	7,888.99	63.31	65.50	-83.25	-1,968.41	-2,258.20	399.73	277.06	122.67	3.259		
9,900.00	7,935.97	9,958.17	7,888.99	65.50	67.58	-83.25	-1,967.97	-2,358.20	399.73	272.44	127.28	3.140		
10,000.00	7,935.97	10,058.17	7,888.98	67.74	69.72	-83.25	-1,967.53	-2,458.20	399.72	267.77	131.95	3.029		
10,100.00	7,935.97	10,158.17	7,888.98	70.02	71.90	-83.25	-1,967.08	-2,558.20	399.71	263.04	136.68	2.925		
10,200.00	7,935.97	10,258.16	7,888.98	72.32	74.12	-83.25	-1,966.64	-2,658.20	399.71	258.27	141.44	2.826		
10,300.00	7,935.97	10,358.16	7,888.98	74.66	76.37	-83.25	-1,966.20	-2,758.20	399.70	253.46	146.25	2.733		
10,400.00	7,935.97	10,458.16	7,888.98	77.02	78.66	-83.25	-1,965.76	-2,858.19	399.70	248.61	151.09	2.645		
10,500.00	7,935.96	10,558.16	7,888.98	79.41	80.98	-83.25	-1,965.32	-2,958.19	399.69	243.72	155.97	2.563		
10,600.00	7,935.96	10,658.16	7,888.98	81.81	83.33	-83.25	-1,964.88	-3,058.19	399.69	238.81	160.87	2.484		
10,700.00	7,935.96	10,758.16	7,888.98	84.24	85.69	-83.25	-1,964.44	-3,158.19	399.68	233.87	165.81	2.411		
10,800.00	7,935.96	10,858.16	7,888.98	86.68	88.09	-83.25	-1,964.00	-3,258.19	399.67	228.91	170.76	2.340		
10,900.00	7,935.96	10,958.16	7,888.98	89.14	90.49	-83.25	-1,963.56	-3,358.19	399.67	223.92	175.75	2.274		
11,000.00	7,935.95	11,058.16	7,888.98	91.61	92.92	-83.25	-1,963.12	-3,458.18	399.66	218.91	180.75	2.211		
11,100.00	7,935.95	11,158.16	7,888.98	94.10	95.37	-83.25	-1,962.68	-3,558.18	399.66	213.89	185.77	2.151		
11,200.00	7,935.95	11,258.16	7,888.98	96.59	97.82	-83.25	-1,962.24	-3,658.18	399.65	208.84	190.81	2.094		
11,300.00	7,935.95	11,358.16	7,888.98	99.10	100.30	-83.25	-1,961.80	-3,758.18	399.65	203.78	195.87	2.040		
11,400.00	7,935.95	11,458.16	7,888.98	101.62	102.78	-83.25	-1,961.36	-3,858.18	399.65	198.70	200.94	1.989		
11,500.00	7,935.95	11,558.16	7,888.97	104.15	105.27	-83.25	-1,960.92	-3,958.18	399.64	193.61	206.03	1.940		
11,600.00	7,935.94	11,658.16	7,888.97	106.68	107.78	-83.25	-1,960.48	-4,058.18	399.64	188.51	211.13	1.893		
11,700.00	7,935.94	11,758.16	7,888.97	109.23	110.30	-83.25	-1,960.04	-4,158.17	399.63	183.40	216.24	1.848		
11,800.00	7,935.94	11,858.16	7,888.97	111.78	112.82	-83.25	-1,959.60	-4,258.17	399.63	178.27	221.36	1.805		
11,900.00	7,935.94	11,958.16	7,888.97	114.33	115.35	-83.25	-1,959.16	-4,358.17	399.63	173.13	226.49	1.764		
12,000.00	7,935.94	12,058.15	7,888.97	116.90	117.89	-83.25	-1,958.73	-4,458.17	399.62	167.99	231.64	1.725		
12,100.00	7,935.93	12,158.15	7,888.97	119.47	120.44	-83.25	-1,958.29	-4,558.17	399.62	162.83	236.79	1.688		
12,200.00	7,935.93	12,258.15	7,888.97	122.04	122.99	-83.25	-1,957.85	-4,658.17	399.62	157.66	241.95	1.652		
12,300.00	7,935.93	12,358.15	7,888.97	124.63	125.55	-83.25	-1,957.41	-4,758.16	399.61	152.49	247.12	1.617		
12,400.00	7,935.93	12,458.15	7,888.97	127.21	128.12	-83.25	-1,956.97	-4,858.16	399.61	147.31	252.30	1.584		
12,500.00	7,935.93	12,558.15	7,888.97	129.80	130.69	-83.25	-1,956.53	-4,958.16	399.61	142.13	257.48	1.552		
12,600.00	7,935.93	12,658.15	7,888.97	132.40	133.27	-83.25	-1,956.10	-5,058.16	399.60	136.93	262.67	1.521		
12,700.00	7,935.92	12,758.15	7,888.97	135.00	135.85	-83.25	-1,955.66	-5,158.16	399.60	131.73	267.87	1.492 Level 3		
12,800.00	7,935.92	12,858.15	7,888.97	137.60	138.44	-83.25	-1,955.22	-5,258.16	399.60	126.53	273.07	1.463 Level 3		
12,900.00	7,935.92	12,958.15	7,888.97	140.20	141.03	-83.25	-1,954.78	-5,358.16	399.60	121.32	278.28	1.436 Level 3		
13,000.00	7,935.92	13,058.15	7,888.97	142.81	143.62	-83.25	-1,954.35	-5,458.15	399.59	116.10	283.49	1.410 Level 3		
13,100.00	7,935.92	13,158.15	7,888.97	145.43	146.22	-83.25	-1,953.91	-5,558.15	399.59	110.88	288.71	1.384 Level 3		
13,200.00	7,935.91	13,258.15	7,888.97	148.04	148.82	-83.25	-1,953.47	-5,658.15	399.59	105.65	293.94	1.359 Level 3		
13,300.00	7,935.91	13,358.15	7,888.97	150.66	151.43	-83.25	-1,953.04	-5,758.15	399.59	100.42	299.16	1.336 Level 3		
13,400.00	7,935.91	13,458.15	7,888.97	153.28	154.04	-83.25	-1,952.60	-5,858.15	399.59	95.19	304.40	1.313 Level 3		
13,500.00	7,935.91	13,558.15	7,888.97	155.90	156.65	-83.25	-1,952.16	-5,958.15	399.58	89.95	309.63	1.291 Level 3		
13,600.00	7,935.91	13,658.15	7,888.97	158.53	159.26	-83.25	-1,951.73	-6,058.15	399.58	84.71	314.87	1.269 Level 3		
13,700.00	7,935.91	13,758.15	7,888.97	161.16	161.88	-83.25	-1,951.29	-6,158.14	399.58	79.46	320.12	1.248 Level 2		
13,800.00	7,935.90	13,858.15	7,888.97	163.79	164.50	-83.25	-1,950.85	-6,258.14	399.58	74.22	325.36	1.228 Level 2		
13,900.00	7,935.90	13,958.14	7,888.97	166.42	167.12	-83.26	-1,950.42	-6,358.14	399.58	68.96	330.61	1.209 Level 2		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	7,935.90	14,058.14	7,888.97	169.05	169.74	-83.26	-1,949.98	-6,458.14	399.58	63.71	335.87	1.190	Level 2	
14,100.00	7,935.90	14,158.14	7,888.97	171.69	172.37	-83.26	-1,949.55	-6,558.14	399.58	58.45	341.13	1.171	Level 2	
14,200.00	7,935.90	14,258.14	7,888.97	174.33	175.00	-83.26	-1,949.11	-6,658.14	399.58	53.19	346.39	1.154	Level 2	
14,300.00	7,935.89	14,358.14	7,888.97	176.97	177.63	-83.26	-1,948.68	-6,758.13	399.58	47.93	351.65	1.136	Level 2	
14,400.00	7,935.89	14,458.14	7,888.97	179.61	180.26	-83.26	-1,948.24	-6,858.13	399.58	42.66	356.91	1.120	Level 2	
14,500.00	7,935.89	14,558.14	7,888.97	182.25	182.90	-83.26	-1,947.80	-6,958.13	399.58	37.39	362.18	1.103	Level 2	
14,600.00	7,935.89	14,658.14	7,888.97	184.90	185.53	-83.26	-1,947.37	-7,058.13	399.58	32.12	367.45	1.087	Level 2	
14,632.05	7,935.89	14,709.81	7,888.97	185.74	186.89	-83.26	-1,947.23	-7,090.18	399.58	29.92	369.66	1.081	Level 2	
14,700.00	7,935.89	14,758.14	7,888.97	187.54	188.17	-83.26	-1,946.93	-7,158.13	399.58	26.85	372.72	1.072	Level 2	
14,800.00	7,935.89	14,858.14	7,888.97	190.19	190.81	-83.26	-1,946.50	-7,258.13	399.58	21.58	378.00	1.057	Level 2	
14,900.00	7,935.88	14,958.14	7,888.97	192.84	193.45	-83.26	-1,946.07	-7,358.13	399.58	16.30	383.28	1.043	Level 2	
15,000.00	7,935.88	15,058.14	7,888.97	195.49	196.09	-83.26	-1,945.63	-7,458.12	399.58	11.02	388.56	1.028	Level 2	
15,100.00	7,935.88	15,158.14	7,888.97	198.14	198.74	-83.26	-1,945.20	-7,558.12	399.58	5.74	393.84	1.015	Level 2	
15,200.00	7,935.88	15,258.14	7,888.98	200.79	201.38	-83.26	-1,944.76	-7,658.12	399.58	0.46	399.12	1.001	Level 2	
15,300.00	7,935.88	15,358.14	7,888.98	203.44	204.03	-83.26	-1,944.33	-7,758.12	399.58	-4.82	404.40	0.988	Level 1	
15,400.00	7,935.87	15,458.14	7,888.98	206.10	206.67	-83.26	-1,943.89	-7,858.12	399.58	-10.11	409.69	0.975	Level 1	
15,500.00	7,935.87	15,558.14	7,888.98	208.75	209.32	-83.26	-1,943.46	-7,958.12	399.58	-15.40	414.98	0.963	Level 1	
15,600.00	7,935.87	15,658.14	7,888.98	211.41	211.97	-83.26	-1,943.03	-8,058.12	399.58	-20.69	420.27	0.951	Level 1	
15,700.00	7,935.87	15,758.13	7,888.98	214.07	214.62	-83.26	-1,942.59	-8,158.11	399.58	-25.98	425.56	0.939	Level 1	
15,800.00	7,935.87	15,858.13	7,888.98	216.72	217.28	-83.26	-1,942.16	-8,258.11	399.59	-31.27	430.85	0.927	Level 1	
15,900.00	7,935.87	15,958.13	7,888.98	219.38	219.93	-83.26	-1,941.73	-8,358.11	399.59	-36.56	436.15	0.916	Level 1	
16,000.00	7,935.86	16,058.13	7,888.98	222.04	222.58	-83.26	-1,941.29	-8,458.11	399.59	-41.85	441.44	0.905	Level 1	
16,100.00	7,935.86	16,158.13	7,888.98	224.70	225.24	-83.26	-1,940.86	-8,558.11	399.59	-47.15	446.74	0.894	Level 1	
16,200.00	7,935.86	16,258.13	7,888.98	227.37	227.90	-83.26	-1,940.43	-8,658.11	399.59	-52.44	452.04	0.884	Level 1	
16,300.00	7,935.86	16,358.13	7,888.98	230.03	230.55	-83.26	-1,940.00	-8,758.11	399.60	-57.74	457.34	0.874	Level 1	
16,400.00	7,935.86	16,458.13	7,888.98	232.69	233.21	-83.26	-1,939.56	-8,858.10	399.60	-63.04	462.64	0.864	Level 1	
16,500.00	7,935.85	16,558.13	7,888.98	235.35	235.87	-83.26	-1,939.13	-8,958.10	399.60	-68.34	467.94	0.854	Level 1	
16,600.00	7,935.85	16,658.13	7,888.98	238.02	238.53	-83.26	-1,938.70	-9,058.10	399.60	-73.64	473.24	0.844	Level 1	
16,700.00	7,935.85	16,758.13	7,888.99	240.68	241.19	-83.26	-1,938.27	-9,158.10	399.61	-78.94	478.55	0.835	Level 1	
16,800.00	7,935.85	16,858.13	7,888.99	243.35	243.85	-83.27	-1,937.83	-9,258.10	399.61	-84.24	483.85	0.826	Level 1	
16,900.00	7,935.85	16,958.13	7,888.99	246.01	246.51	-83.27	-1,937.40	-9,358.10	399.61	-89.55	489.16	0.817	Level 1	
17,000.00	7,935.85	17,058.13	7,888.99	248.68	249.17	-83.27	-1,936.97	-9,458.09	399.61	-94.85	494.46	0.808	Level 1	
17,100.00	7,935.84	17,158.13	7,888.99	251.35	251.84	-83.27	-1,936.54	-9,558.09	399.62	-100.15	499.77	0.800	Level 1	
17,200.00	7,935.84	17,258.13	7,888.99	254.02	254.50	-83.27	-1,936.11	-9,658.09	399.62	-105.46	505.08	0.791	Level 1	
17,300.00	7,935.84	17,358.13	7,888.99	256.69	257.16	-83.27	-1,935.68	-9,758.09	399.63	-110.77	510.39	0.783	Level 1	
17,400.00	7,935.84	17,458.13	7,888.99	259.35	259.83	-83.27	-1,935.25	-9,858.09	399.63	-116.07	515.70	0.775	Level 1	
17,500.00	7,935.84	17,558.12	7,888.99	262.02	262.49	-83.27	-1,934.81	-9,958.09	399.63	-121.38	521.01	0.767	Level 1	
17,600.00	7,935.83	17,658.12	7,888.99	264.69	265.16	-83.27	-1,934.38	-10,058.09	399.64	-126.69	526.33	0.759	Level 1	
17,700.00	7,935.83	17,758.12	7,888.99	267.36	267.83	-83.27	-1,933.95	-10,158.08	399.64	-132.00	531.64	0.752	Level 1	
17,800.00	7,935.83	17,858.12	7,889.00	270.03	270.49	-83.27	-1,933.52	-10,258.08	399.65	-137.31	536.95	0.744	Level 1	
17,900.00	7,935.83	17,958.12	7,889.00	272.71	273.16	-83.27	-1,933.09	-10,358.08	399.65	-142.62	542.27	0.737	Level 1	
18,000.00	7,935.83	18,058.12	7,889.00	275.38	275.83	-83.27	-1,932.66	-10,458.08	399.65	-147.93	547.58	0.730	Level 1	
18,100.00	7,935.83	18,158.12	7,889.00	278.05	278.50	-83.27	-1,932.23	-10,558.08	399.66	-153.24	552.90	0.723	Level 1	
18,153.00	7,936.00	18,211.12	7,889.00	279.47	279.91	-83.25	-1,932.00	-10,611.07	399.83	-155.86	555.70	0.720	Level 1, ES, SF	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	200.17	200.15	0.49	0.48	92.73	-1.73	36.28	36.32	35.34	0.98	37.237		
284.60	284.60	284.73	284.60	0.80	0.79	99.37	-5.87	35.59	36.07	34.49	1.58	22.810 CC		
300.00	300.00	300.09	299.93	0.85	0.85	101.01	-6.89	35.42	36.09	34.40	1.69	21.332 ES		
400.00	400.00	399.53	398.98	1.21	1.22	114.41	-15.44	34.01	37.37	34.94	2.43	15.401		
500.00	500.00	498.25	496.97	1.57	1.61	130.38	-27.27	32.06	42.20	39.03	3.17	13.315		
600.00	599.98	596.30	593.82	1.91	2.03	-48.73	-42.31	29.58	50.83	46.95	3.89	13.082		
700.00	699.84	693.90	689.65	2.25	2.48	-39.72	-60.52	26.57	61.46	56.87	4.58	13.413		
800.00	799.45	791.05	784.37	2.59	2.96	-33.60	-81.84	23.06	73.15	67.87	5.28	13.852		
900.00	898.70	887.76	877.87	2.96	3.47	-29.34	-106.19	19.04	85.43	79.44	5.99	14.271		
1,000.00	997.47	984.04	970.08	3.35	4.03	-26.27	-133.52	14.53	98.02	91.32	6.70	14.641		
1,100.00	1,095.62	1,079.91	1,060.91	3.77	4.62	-24.00	-163.75	9.54	110.76	103.35	7.42	14.934		
1,200.00	1,193.06	1,175.36	1,150.28	4.22	5.24	-22.30	-196.81	4.08	123.56	115.41	8.15	15.165		
1,244.60	1,236.24	1,218.41	1,190.23	4.43	5.54	-21.68	-212.64	1.47	129.23	120.74	8.48	15.232		
1,300.00	1,289.78	1,273.38	1,241.17	4.71	5.92	-21.05	-233.02	-1.89	136.06	127.13	8.93	15.229		
1,400.00	1,386.43	1,372.58	1,333.10	5.21	6.62	-20.06	-269.79	-7.96	148.42	138.67	9.75	15.217		
1,500.00	1,483.07	1,471.78	1,425.04	5.73	7.32	-19.22	-306.56	-14.03	160.83	150.25	10.58	15.202		
1,600.00	1,579.71	1,570.98	1,516.97	6.25	8.03	-18.50	-343.34	-20.10	173.26	161.85	11.41	15.188		
1,700.00	1,676.35	1,670.19	1,608.91	6.78	8.74	-17.88	-380.11	-26.17	185.71	173.47	12.24	15.173		
1,800.00	1,772.99	1,769.39	1,700.84	7.32	9.45	-17.33	-416.88	-32.24	198.19	185.11	13.07	15.159		
1,900.00	1,869.63	1,868.59	1,792.78	7.86	10.17	-16.85	-453.66	-38.31	210.67	196.76	13.91	15.145		
2,000.00	1,966.27	1,967.79	1,884.72	8.41	10.89	-16.43	-490.43	-44.38	223.18	208.43	14.75	15.132		
2,100.00	2,062.91	2,067.00	1,976.65	8.96	11.61	-16.05	-527.20	-50.45	235.69	220.10	15.59	15.120		
2,200.00	2,159.55	2,166.20	2,068.59	9.51	12.33	-15.71	-563.97	-56.52	248.21	231.78	16.43	15.108		
2,300.00	2,256.20	2,265.40	2,160.52	10.06	13.05	-15.40	-600.75	-62.58	260.74	243.47	17.27	15.098		
2,400.00	2,352.84	2,364.60	2,252.46	10.61	13.77	-15.12	-637.52	-68.65	273.28	255.16	18.11	15.088		
2,500.00	2,449.48	2,463.81	2,344.39	11.17	14.50	-14.86	-674.29	-74.72	285.82	266.86	18.96	15.078		
2,600.00	2,546.12	2,563.01	2,436.33	11.72	15.22	-14.62	-711.07	-80.79	298.37	278.57	19.80	15.069		
2,700.00	2,642.76	2,662.21	2,528.26	12.28	15.95	-14.41	-747.84	-86.86	310.92	290.27	20.64	15.061		
2,800.00	2,739.40	2,761.41	2,620.20	12.84	16.67	-14.21	-784.61	-92.93	323.47	301.98	21.49	15.053		
2,900.00	2,836.04	2,860.62	2,712.13	13.40	17.40	-14.03	-821.39	-99.00	336.03	313.70	22.34	15.045		
3,000.00	2,932.68	2,959.82	2,804.07	13.96	18.12	-13.85	-858.16	-105.07	348.59	325.41	23.18	15.038		
3,100.00	3,029.33	3,059.02	2,896.00	14.52	18.85	-13.70	-894.93	-111.14	361.16	337.13	24.03	15.031		
3,200.00	3,125.97	3,158.22	2,987.94	15.08	19.57	-13.55	-931.71	-117.20	373.73	348.85	24.87	15.025		
3,300.00	3,222.61	3,257.43	3,079.87	15.64	20.30	-13.41	-968.48	-123.27	386.30	360.58	25.72	15.019		
3,400.00	3,319.25	3,356.63	3,171.81	16.21	21.03	-13.28	-1,005.25	-129.34	398.87	372.30	26.57	15.013		
3,500.00	3,415.89	3,455.83	3,263.74	16.77	21.75	-13.16	-1,042.03	-135.41	411.45	384.03	27.42	15.007		
3,600.00	3,512.53	3,555.04	3,355.68	17.33	22.48	-13.04	-1,078.80	-141.48	424.02	395.76	28.26	15.002		
3,700.00	3,609.17	3,654.24	3,447.61	17.89	23.21	-12.93	-1,115.57	-147.55	436.60	407.49	29.11	14.997		
3,800.00	3,705.81	3,753.44	3,539.55	18.46	23.94	-12.83	-1,152.34	-153.62	449.18	419.22	29.96	14.992		
3,900.00	3,802.46	3,852.64	3,631.48	19.02	24.66	-12.74	-1,189.12	-159.69	461.76	430.95	30.81	14.988		
4,000.00	3,899.10	3,951.85	3,723.42	19.59	25.39	-12.64	-1,225.89	-165.76	474.34	442.68	31.66	14.983		
4,100.00	3,995.74	4,051.05	3,815.35	20.15	26.12	-12.56	-1,262.66	-171.83	486.92	454.42	32.51	14.979		
4,200.00	4,092.38	4,150.25	3,907.29	20.71	26.85	-12.47	-1,299.44	-177.89	499.51	466.15	33.36	14.975		
4,300.00	4,189.02	4,249.45	3,999.22	21.28	27.57	-12.40	-1,336.21	-183.96	512.09	477.89	34.21	14.971		
4,400.00	4,285.66	4,348.66	4,091.16	21.84	28.30	-12.32	-1,372.98	-190.03	524.68	489.62	35.05	14.967		
4,500.00	4,382.30	4,447.86	4,183.09	22.41	29.03	-12.25	-1,409.76	-196.10	537.26	501.36	35.90	14.964		
4,600.00	4,478.94	4,547.06	4,275.03	22.97	29.76	-12.18	-1,446.53	-202.17	549.85	513.10	36.75	14.960		
4,700.00	4,575.59	4,646.26	4,366.96	23.54	30.49	-12.12	-1,483.30	-208.24	562.44	524.84	37.60	14.957		
4,800.00	4,672.23	4,745.47	4,458.90	24.10	31.21	-12.06	-1,520.08	-214.31	575.03	536.57	38.45	14.954		
4,900.00	4,768.87	4,844.67	4,550.83	24.67	31.94	-12.00	-1,556.85	-220.38	587.62	548.31	39.30	14.951		

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 5-6-10
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 5-6-10	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	4,865.51	4,943.87	4,642.77	25.24	32.67	-11.94	-1,593.62	-226.45	600.21	560.05	40.15	14.948		
5,100.00	4,962.15	5,043.07	4,734.70	25.80	33.40	-11.89	-1,630.40	-232.52	612.80	571.79	41.00	14.945		
5,200.00	5,058.79	5,142.28	4,826.64	26.37	34.13	-11.83	-1,667.17	-238.58	625.39	583.53	41.85	14.942		
5,300.00	5,155.43	5,241.48	4,918.57	26.93	34.86	-11.78	-1,703.94	-244.65	637.98	595.28	42.70	14.940		
5,400.00	5,252.07	5,340.68	5,010.51	27.50	35.59	-11.74	-1,740.71	-250.72	650.57	607.02	43.55	14.937		
5,500.00	5,348.72	5,439.88	5,102.44	28.07	36.31	-11.69	-1,777.49	-256.79	663.16	618.76	44.40	14.935		
5,600.00	5,445.36	5,539.09	5,194.38	28.63	37.04	-11.64	-1,814.26	-262.86	675.76	630.50	45.26	14.932		
5,700.00	5,542.00	5,638.29	5,286.31	29.20	37.77	-11.60	-1,851.03	-268.93	688.35	642.24	46.11	14.930		
5,800.00	5,638.64	5,737.49	5,378.25	29.76	38.50	-11.56	-1,887.81	-275.00	700.94	653.99	46.96	14.927		
5,900.00	5,735.28	5,836.69	5,470.18	30.33	39.23	-11.52	-1,924.58	-281.07	713.54	665.73	47.81	14.925		
6,000.00	5,831.92	5,935.90	5,562.12	30.90	39.96	-11.48	-1,961.35	-287.14	726.13	677.47	48.66	14.923		
6,100.00	5,928.56	6,035.10	5,654.05	31.46	40.69	-11.44	-1,998.13	-293.21	738.73	689.22	49.51	14.921		
6,200.00	6,025.20	6,134.30	5,745.99	32.03	41.41	-11.41	-2,034.90	-299.27	751.32	700.96	50.36	14.919		
6,300.00	6,121.85	6,233.51	5,837.92	32.60	42.14	-11.37	-2,071.67	-305.34	763.92	712.70	51.21	14.917		
6,400.00	6,218.49	6,332.71	5,929.86	33.16	42.87	-11.34	-2,108.45	-311.41	776.51	724.45	52.06	14.915		
6,500.00	6,315.13	6,431.91	6,021.79	33.73	43.60	-11.31	-2,145.22	-317.48	789.11	736.19	52.91	14.913		
6,600.00	6,411.77	6,546.82	6,128.49	34.30	44.43	-11.28	-2,187.30	-324.43	801.30	747.40	53.90	14.866		
6,700.00	6,508.41	6,684.90	6,258.60	34.86	45.37	-11.30	-2,232.89	-331.95	809.58	754.57	55.01	14.717		
6,791.42	6,596.76	6,811.82	6,380.03	35.38	46.15	-11.37	-2,269.29	-337.96	812.97	757.05	55.92	14.539		
6,800.00	6,605.05	6,823.75	6,391.52	35.43	46.21	-11.38	-2,302.44	-338.48	813.09	757.10	56.00	14.521		
6,900.00	6,702.20	6,962.80	6,526.43	35.97	46.96	-11.50	-2,305.64	-343.96	813.80	756.96	56.84	14.316		
7,000.00	6,800.11	7,101.84	6,662.80	36.47	47.62	-11.62	-2,332.33	-348.36	813.14	755.59	57.55	14.130		
7,100.00	6,898.67	7,240.76	6,800.19	36.93	48.17	-11.73	-2,352.46	-351.68	811.09	753.00	58.09	13.963		
7,200.00	6,997.75	7,379.42	6,938.17	37.34	48.64	-11.84	-2,365.97	-353.91	807.68	749.20	58.49	13.810		
7,300.00	7,097.25	7,517.73	7,076.28	37.71	49.01	-11.95	-2,372.86	-355.05	802.91	744.18	58.73	13.671		
7,400.00	7,197.04	7,638.41	7,196.95	38.04	49.22	-12.02	-2,373.85	-355.41	797.28	738.22	59.06	13.499		
7,500.00	7,296.99	7,736.50	7,294.31	38.32	49.42	-11.26	-2,373.80	-366.33	794.46	734.89	59.57	13.337		
7,520.80	7,317.78	7,756.28	7,313.64	38.37	49.46	-10.96	-2,373.78	-370.54	794.36	734.70	59.66	13.314		
7,536.02	7,333.00	7,770.56	7,327.49	38.41	49.49	-178.24	-2,373.77	-373.99	794.41	734.68	59.73	13.300		
7,566.02	7,363.00	7,798.14	7,353.99	38.47	49.56	-177.69	-2,373.74	-381.63	794.68	734.82	59.86	13.275		
7,600.00	7,396.96	7,828.71	7,382.90	38.55	49.63	-87.24	-2,373.69	-391.59	795.13	735.09	60.04	13.243		
7,650.00	7,446.68	7,872.91	7,423.65	38.68	49.74	-86.23	-2,373.62	-408.66	795.99	735.63	60.37	13.186		
7,700.00	7,495.77	7,916.26	7,462.23	38.82	49.85	-85.25	-2,373.53	-428.41	797.07	736.33	60.74	13.122		
7,750.00	7,543.84	7,958.84	7,498.56	38.97	49.96	-84.31	-2,373.44	-450.60	798.34	737.18	61.16	13.053		
7,800.00	7,590.54	8,000.74	7,532.61	39.12	50.07	-83.41	-2,373.33	-475.00	799.74	738.13	61.61	12.980		
7,850.00	7,635.50	8,042.02	7,564.32	39.27	50.18	-82.56	-2,373.22	-501.41	801.25	739.16	62.10	12.903		
7,900.00	7,678.39	8,082.75	7,593.67	39.44	50.30	-81.75	-2,373.09	-529.64	802.83	740.22	62.61	12.822		
7,950.00	7,718.88	8,122.99	7,620.62	39.60	50.42	-81.00	-2,372.96	-559.51	804.43	741.26	63.16	12.736		
8,000.00	7,756.67	8,162.81	7,645.16	39.78	50.54	-80.31	-2,372.83	-590.85	806.01	742.26	63.76	12.642		
8,050.00	7,791.45	8,202.25	7,667.27	39.96	50.66	-79.68	-2,372.68	-623.51	807.54	743.14	64.40	12.540		
8,100.00	7,822.98	8,241.36	7,686.92	40.15	50.79	-79.11	-2,372.54	-657.31	808.99	743.88	65.11	12.424		
8,150.00	7,851.01	8,280.19	7,704.11	40.35	50.93	-78.61	-2,372.39	-692.13	810.32	744.41	65.91	12.295		
8,200.00	7,875.32	8,318.79	7,718.81	40.57	51.07	-78.19	-2,372.23	-727.80	811.50	744.72	66.79	12.151		
8,250.00	7,895.74	8,357.19	7,731.03	40.81	51.22	-77.83	-2,372.07	-764.20	812.51	744.75	67.76	11.991		
8,300.00	7,912.10	8,395.43	7,740.74	41.06	51.37	-77.55	-2,371.91	-801.19	813.33	744.50	68.83	11.816		
8,350.00	7,924.28	8,433.56	7,747.95	41.34	51.54	-77.34	-2,371.75	-838.62	813.94	743.93	70.01	11.626		
8,400.00	7,932.19	8,471.61	7,752.65	41.65	51.71	-77.21	-2,371.59	-876.37	814.33	743.04	71.29	11.424		
8,450.00	7,935.77	8,509.62	7,754.83	41.99	51.90	-77.16	-2,371.42	-914.31	814.49	741.85	72.64	11.213		
8,466.09	7,936.00	8,525.73	7,755.00	42.10	51.98	-77.16	-2,371.37	-926.00	814.49	741.33	73.15	11.134		
8,500.00	7,936.00	8,555.23	7,755.00	42.35	52.13	-77.16	-2,371.22	-959.91	814.49	740.53	73.96	11.012		
8,600.00	7,936.00	8,655.23	7,755.00	43.20	52.71	-77.16	-2,370.79	-1,059.91	814.49	737.81	76.68	10.622		
8,700.00	7,936.00	8,755.23	7,755.00	44.20	53.38	-77.16	-2,370.35	-1,159.91	814.49	734.85	79.64	10.227		

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 5-6-10
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 5-6-10	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	7,935.99	8,855.23	7,755.00	45.35	54.16	-77.16	-2,369.92	-1,259.91	814.49	731.66	82.83	9.833		
8,900.00	7,935.99	8,955.23	7,755.00	46.65	55.04	-77.16	-2,369.49	-1,359.91	814.49	728.27	86.22	9.446		
9,000.00	7,935.99	9,055.23	7,755.00	48.10	56.04	-77.16	-2,369.05	-1,459.91	814.49	724.69	89.80	9.070		
9,100.00	7,935.99	9,155.23	7,755.00	49.67	57.16	-77.16	-2,368.62	-1,559.91	814.49	720.96	93.53	8.708		
9,200.00	7,935.99	9,255.23	7,755.00	51.37	58.40	-77.16	-2,368.18	-1,659.91	814.49	717.08	97.41	8.362		
9,300.00	7,935.99	9,355.23	7,755.00	53.16	59.76	-77.16	-2,367.75	-1,759.90	814.49	713.08	101.41	8.032		
9,400.00	7,935.98	9,455.23	7,755.00	55.05	61.23	-77.16	-2,367.31	-1,859.90	814.49	708.97	105.52	7.719		
9,500.00	7,935.98	9,555.23	7,755.00	57.02	62.82	-77.16	-2,366.88	-1,959.90	814.49	704.76	109.73	7.423		
9,600.00	7,935.98	9,655.23	7,755.00	59.06	64.50	-77.16	-2,366.44	-2,059.90	814.49	700.47	114.02	7.143		
9,700.00	7,935.98	9,755.23	7,755.00	61.16	66.27	-77.16	-2,366.01	-2,159.90	814.49	696.09	118.40	6.879		
9,800.00	7,935.98	9,855.23	7,755.00	63.31	68.13	-77.16	-2,365.58	-2,259.90	814.49	691.65	122.84	6.630		
9,900.00	7,935.97	9,955.23	7,755.00	65.50	70.05	-77.16	-2,365.14	-2,359.90	814.49	687.14	127.35	6.396		
10,000.00	7,935.97	10,055.23	7,755.00	67.74	72.05	-77.16	-2,364.71	-2,459.90	814.49	682.58	131.91	6.175		
10,100.00	7,935.97	10,155.23	7,755.00	70.02	74.10	-77.16	-2,364.27	-2,559.90	814.49	677.97	136.52	5.966		
10,200.00	7,935.97	10,255.23	7,755.00	72.32	76.21	-77.16	-2,363.84	-2,659.90	814.49	673.31	141.18	5.769		
10,300.00	7,935.97	10,355.23	7,755.00	74.66	78.36	-77.16	-2,363.40	-2,759.89	814.49	668.61	145.88	5.583		
10,400.00	7,935.97	10,455.23	7,755.00	77.02	80.56	-77.16	-2,362.97	-2,859.89	814.49	663.88	150.62	5.408		
10,500.00	7,935.96	10,555.23	7,755.00	79.41	82.79	-77.16	-2,362.53	-2,959.89	814.49	659.11	155.38	5.242		
10,600.00	7,935.96	10,655.23	7,755.00	81.81	85.06	-77.16	-2,362.10	-3,059.89	814.50	654.31	160.19	5.085		
10,700.00	7,935.96	10,755.23	7,755.00	84.24	87.35	-77.16	-2,361.66	-3,159.89	814.50	649.48	165.01	4.936		
10,800.00	7,935.96	10,855.23	7,755.00	86.68	89.68	-77.16	-2,361.23	-3,259.89	814.50	644.63	169.87	4.795		
10,900.00	7,935.96	10,955.23	7,755.00	89.14	92.03	-77.16	-2,360.80	-3,359.89	814.50	639.75	174.75	4.661		
11,000.00	7,935.95	11,055.23	7,755.00	91.61	94.40	-77.16	-2,360.36	-3,459.89	814.50	634.85	179.65	4.534		
11,100.00	7,935.95	11,155.23	7,755.00	94.10	96.79	-77.16	-2,359.93	-3,559.89	814.50	629.93	184.56	4.413		
11,200.00	7,935.95	11,255.23	7,754.99	96.59	99.20	-77.16	-2,359.49	-3,659.89	814.50	625.00	189.50	4.298		
11,300.00	7,935.95	11,355.23	7,754.99	99.10	101.62	-77.16	-2,359.06	-3,759.89	814.50	620.04	194.46	4.189		
11,400.00	7,935.95	11,455.23	7,754.99	101.62	104.06	-77.16	-2,358.62	-3,859.88	814.50	615.07	199.43	4.084		
11,500.00	7,935.95	11,555.23	7,754.99	104.15	106.52	-77.16	-2,358.19	-3,959.88	814.50	610.09	204.41	3.985		
11,600.00	7,935.94	11,655.23	7,754.99	106.68	108.99	-77.16	-2,357.75	-4,059.88	814.50	605.09	209.41	3.889		
11,700.00	7,935.94	11,755.23	7,754.99	109.23	111.47	-77.16	-2,357.32	-4,159.88	814.50	600.08	214.42	3.799		
11,800.00	7,935.94	11,855.23	7,754.99	111.78	113.96	-77.16	-2,356.89	-4,259.88	814.50	595.06	219.44	3.712		
11,900.00	7,935.94	11,955.23	7,754.99	114.33	116.46	-77.16	-2,356.45	-4,359.88	814.50	590.02	224.48	3.628		
12,000.00	7,935.94	12,055.23	7,754.99	116.90	118.97	-77.16	-2,356.02	-4,459.88	814.50	584.98	229.52	3.549		
12,100.00	7,935.93	12,155.23	7,754.99	119.47	121.49	-77.16	-2,355.58	-4,559.88	814.50	579.93	234.57	3.472		
12,200.00	7,935.93	12,255.23	7,754.99	122.04	124.02	-77.16	-2,355.15	-4,659.88	814.50	574.86	239.64	3.399		
12,300.00	7,935.93	12,355.23	7,754.99	124.63	126.56	-77.16	-2,354.71	-4,759.88	814.50	569.79	244.71	3.328		
12,400.00	7,935.93	12,455.23	7,754.99	127.21	129.10	-77.17	-2,354.28	-4,859.88	814.50	564.72	249.79	3.261		
12,500.00	7,935.93	12,555.23	7,754.99	129.80	131.65	-77.17	-2,353.84	-4,959.87	814.50	559.63	254.87	3.196		
12,600.00	7,935.93	12,655.23	7,754.99	132.40	134.21	-77.17	-2,353.41	-5,059.87	814.50	554.54	259.96	3.133		
12,700.00	7,935.92	12,755.23	7,754.99	135.00	136.77	-77.17	-2,352.98	-5,159.87	814.50	549.44	265.06	3.073		
12,800.00	7,935.92	12,855.23	7,754.99	137.60	139.33	-77.17	-2,352.54	-5,259.87	814.50	544.33	270.17	3.015		
12,900.00	7,935.92	12,955.23	7,754.99	140.20	141.91	-77.17	-2,352.11	-5,359.87	814.50	539.22	275.28	2.959		
13,000.00	7,935.92	13,055.23	7,754.99	142.81	144.48	-77.17	-2,351.67	-5,459.87	814.50	534.11	280.40	2.905		
13,100.00	7,935.92	13,155.23	7,754.99	145.43	147.06	-77.17	-2,351.24	-5,559.87	814.50	528.98	285.52	2.853		
13,200.00	7,935.91	13,255.23	7,754.99	148.04	149.65	-77.17	-2,350.80	-5,659.87	814.50	523.86	290.65	2.802		
13,300.00	7,935.91	13,355.23	7,754.99	150.66	152.24	-77.17	-2,350.37	-5,759.87	814.50	518.73	295.78	2.754		
13,400.00	7,935.91	13,455.23	7,754.99	153.28	154.83	-77.17	-2,349.93	-5,859.87	814.51	513.59	300.92	2.707		
13,500.00	7,935.91	13,555.23	7,754.99	155.90	157.43	-77.17	-2,349.50	-5,959.86	814.51	508.45	306.06	2.661		
13,600.00	7,935.91	13,655.23	7,754.99	158.53	160.03	-77.17	-2,349.07	-6,059.86	814.51	503.30	311.20	2.617		
13,700.00	7,935.91	13,755.23	7,754.99	161.16	162.63	-77.17	-2,348.63	-6,159.86	814.51	498.16	316.35	2.575		
13,800.00	7,935.90	13,855.23	7,754.99	163.79	165.24	-77.17	-2,348.20	-6,259.86	814.51	493.00	321.50	2.533		
13,900.00	7,935.90	13,955.23	7,754.99	166.42	167.85	-77.17	-2,347.76	-6,359.86	814.51	487.85	326.66	2.493		

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 5-6-10
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 5-6-10	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	7,935.90	14,055.23	7,754.99	169.05	170.46	-77.17	-2,347.33	-6,459.86	814.51	482.69	331.82	2.455		
14,100.00	7,935.90	14,155.23	7,754.99	171.69	173.08	-77.17	-2,346.89	-6,559.86	814.51	477.53	336.98	2.417		
14,200.00	7,935.90	14,255.23	7,754.99	174.33	175.70	-77.17	-2,346.46	-6,659.86	814.51	472.36	342.14	2.381		
14,300.00	7,935.89	14,355.23	7,754.99	176.97	178.32	-77.17	-2,346.02	-6,759.86	814.51	467.20	347.31	2.345		
14,400.00	7,935.89	14,455.23	7,754.99	179.61	180.94	-77.17	-2,345.59	-6,859.86	814.51	462.03	352.48	2.311		
14,500.00	7,935.89	14,555.23	7,754.99	182.25	183.56	-77.17	-2,345.15	-6,959.86	814.51	456.85	357.66	2.277		
14,600.00	7,935.89	14,655.23	7,754.99	184.90	186.19	-77.17	-2,344.72	-7,059.85	814.51	451.68	362.83	2.245		
14,700.00	7,935.89	14,755.23	7,754.99	187.54	188.82	-77.17	-2,344.29	-7,159.85	814.51	446.50	368.01	2.213		
14,800.00	7,935.89	14,855.23	7,754.99	190.19	191.45	-77.17	-2,343.85	-7,259.85	814.51	441.32	373.19	2.183		
14,900.00	7,935.88	14,955.23	7,754.99	192.84	194.08	-77.17	-2,343.42	-7,359.85	814.51	436.14	378.37	2.153		
15,000.00	7,935.88	15,055.23	7,754.99	195.49	196.71	-77.17	-2,342.98	-7,459.85	814.51	430.95	383.56	2.124		
15,100.00	7,935.88	15,155.23	7,754.99	198.14	199.35	-77.17	-2,342.55	-7,559.85	814.51	425.76	388.75	2.095		
15,200.00	7,935.88	15,255.23	7,754.99	200.79	201.99	-77.17	-2,342.11	-7,659.85	814.51	420.58	393.94	2.068		
15,300.00	7,935.88	15,355.23	7,754.99	203.44	204.63	-77.17	-2,341.68	-7,759.85	814.51	415.39	399.13	2.041		
15,400.00	7,935.87	15,455.23	7,754.99	206.10	207.27	-77.17	-2,341.24	-7,859.85	814.51	410.19	404.32	2.015		
15,500.00	7,935.87	15,555.23	7,754.99	208.75	209.91	-77.17	-2,340.81	-7,959.85	814.51	405.00	409.51	1.989		
15,600.00	7,935.87	15,655.23	7,754.99	211.41	212.55	-77.17	-2,340.38	-8,059.85	814.51	399.80	414.71	1.964		
15,700.00	7,935.87	15,755.23	7,754.99	214.07	215.20	-77.17	-2,339.94	-8,159.84	814.51	394.61	419.91	1.940		
15,800.00	7,935.87	15,855.23	7,754.99	216.72	217.84	-77.17	-2,339.51	-8,259.84	814.51	389.41	425.11	1.916		
15,900.00	7,935.87	15,955.23	7,754.99	219.38	220.49	-77.17	-2,339.07	-8,359.84	814.51	384.21	430.31	1.893		
16,000.00	7,935.86	16,055.23	7,754.99	222.04	223.14	-77.17	-2,338.64	-8,459.84	814.51	379.00	435.51	1.870		
16,100.00	7,935.86	16,155.23	7,754.99	224.70	225.79	-77.17	-2,338.20	-8,559.84	814.51	373.80	440.71	1.848		
16,200.00	7,935.86	16,255.23	7,754.99	227.37	228.44	-77.17	-2,337.77	-8,659.84	814.51	368.60	445.92	1.827		
16,300.00	7,935.86	16,355.23	7,754.99	230.03	231.09	-77.17	-2,337.33	-8,759.84	814.52	363.39	451.13	1.806		
16,400.00	7,935.86	16,455.23	7,754.98	232.69	233.74	-77.17	-2,336.90	-8,859.84	814.52	358.18	456.33	1.785		
16,500.00	7,935.85	16,555.23	7,754.98	235.35	236.39	-77.17	-2,336.47	-8,959.84	814.52	352.97	461.54	1.765		
16,600.00	7,935.85	16,655.23	7,754.98	238.02	239.05	-77.17	-2,336.03	-9,059.84	814.52	347.76	466.75	1.745		
16,700.00	7,935.85	16,755.23	7,754.98	240.68	241.70	-77.17	-2,335.60	-9,159.83	814.52	342.55	471.96	1.726		
16,800.00	7,935.85	16,855.23	7,754.98	243.35	244.36	-77.17	-2,335.16	-9,259.83	814.52	337.34	477.18	1.707		
16,900.00	7,935.85	16,955.23	7,754.98	246.01	247.01	-77.17	-2,334.73	-9,359.83	814.52	332.13	482.39	1.689		
17,000.00	7,935.85	17,055.23	7,754.98	248.68	249.67	-77.17	-2,334.29	-9,459.83	814.52	326.91	487.60	1.670		
17,100.00	7,935.84	17,155.23	7,754.98	251.35	252.33	-77.17	-2,333.86	-9,559.83	814.52	321.70	492.82	1.653		
17,200.00	7,935.84	17,255.23	7,754.98	254.02	254.99	-77.17	-2,333.42	-9,659.83	814.52	316.48	498.04	1.635		
17,300.00	7,935.84	17,355.23	7,754.98	256.69	257.65	-77.17	-2,332.99	-9,759.83	814.52	311.27	503.25	1.619		
17,400.00	7,935.84	17,455.23	7,754.98	259.35	260.31	-77.17	-2,332.56	-9,859.83	814.52	306.05	508.47	1.602		
17,500.00	7,935.84	17,555.23	7,754.98	262.02	262.97	-77.17	-2,332.12	-9,959.83	814.52	300.83	513.69	1.586		
17,600.00	7,935.83	17,655.23	7,754.98	264.69	265.63	-77.17	-2,331.69	-10,059.83	814.52	295.61	518.91	1.570		
17,700.00	7,935.83	17,755.23	7,754.98	267.36	268.29	-77.17	-2,331.25	-10,159.83	814.52	290.39	524.13	1.554		
17,800.00	7,935.83	17,855.23	7,754.98	270.03	270.96	-77.17	-2,330.82	-10,259.82	814.52	285.17	529.35	1.539		
17,900.00	7,935.83	17,955.23	7,754.98	272.71	273.62	-77.17	-2,330.38	-10,359.82	814.52	279.95	534.58	1.524		
18,000.00	7,935.83	18,055.23	7,754.98	275.38	276.29	-77.17	-2,329.95	-10,459.82	814.52	274.72	539.80	1.509		
18,100.00	7,935.83	18,155.23	7,754.98	278.05	278.95	-77.17	-2,329.51	-10,559.82	814.52	269.50	545.02	1.494 Level 3		
18,153.00	7,936.00	18,210.73	7,755.00	279.47	280.43	-77.16	-2,329.05	-10,615.33	814.49	266.77	547.72	1.487 Level 3, SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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 CC		
500.00	500.00	499.46	499.44	1.57	1.57	-88.92	1.70	-90.28	90.30	87.16	3.13	28.811 ES		
600.00	599.98	598.54	598.38	1.91	1.93	82.84	6.79	-91.11	91.14	87.31	3.83	23.790		
700.00	699.84	696.59	696.06	2.25	2.28	90.93	15.14	-92.48	93.66	89.13	4.52	20.708		
800.00	799.45	792.95	791.72	2.59	2.65	101.73	26.55	-94.35	100.43	95.20	5.23	19.212		
900.00	898.70	887.01	884.67	2.96	3.02	113.27	40.75	-96.67	114.17	108.23	5.94	19.235		
1,000.00	997.47	978.24	974.32	3.35	3.40	123.66	57.39	-99.40	136.43	129.80	6.63	20.580		
1,100.00	1,095.62	1,066.14	1,060.15	3.77	3.79	132.00	76.09	-102.46	167.31	160.02	7.30	22.928		
1,200.00	1,193.06	1,152.21	1,143.64	4.22	4.19	138.43	96.76	-105.84	206.00	198.05	7.95	25.910		
1,244.60	1,236.24	1,208.55	1,181.63	4.43	4.46	140.83	106.43	-107.42	225.03	216.71	8.32	27.033		
1,300.00	1,289.78	1,240.00	1,228.64	4.71	4.62	143.66	118.39	-109.38	249.48	240.85	8.63	28.906		
1,400.00	1,386.43	1,327.62	1,313.48	5.21	5.06	147.60	139.99	-112.92	294.59	285.29	9.30	31.669		
1,500.00	1,483.07	1,415.24	1,398.33	5.73	5.50	150.51	161.58	-116.45	340.55	330.57	9.98	34.132		
1,600.00	1,579.71	1,502.85	1,483.17	6.25	5.94	152.74	183.17	-119.99	387.06	376.40	10.66	36.318		
1,700.00	1,676.35	1,609.53	1,568.01	6.78	6.50	154.51	204.77	-123.52	433.93	422.51	11.42	38.010		
1,800.00	1,772.99	1,678.09	1,652.85	7.32	6.85	155.93	226.36	-127.06	481.06	469.03	12.03	39.989		
1,900.00	1,869.63	1,765.71	1,737.70	7.86	7.31	157.09	247.95	-130.59	528.39	515.67	12.72	41.536		
2,000.00	1,966.27	1,853.33	1,822.54	8.41	7.77	158.07	269.55	-134.13	575.86	562.45	13.42	42.924		
2,100.00	2,062.91	1,940.95	1,907.38	8.96	8.23	158.90	291.14	-137.66	623.44	609.33	14.11	44.176		
2,200.00	2,159.55	2,028.57	1,992.23	9.51	8.70	159.62	312.73	-141.20	671.11	656.30	14.81	45.309		
2,300.00	2,256.20	2,116.19	2,077.07	10.06	9.16	160.24	334.33	-144.73	718.85	703.34	15.51	46.339		
2,400.00	2,352.84	2,203.81	2,161.91	10.61	9.63	160.78	355.92	-148.27	766.65	750.44	16.22	47.278		
2,500.00	2,449.48	2,308.57	2,246.76	11.17	10.18	161.26	377.51	-151.80	814.50	797.51	16.99	47.944		
2,600.00	2,546.12	2,379.05	2,331.60	11.72	10.56	161.68	399.11	-155.34	862.38	844.75	17.63	48.926		
2,700.00	2,642.76	2,466.67	2,416.44	12.28	11.03	162.07	420.70	-158.87	910.30	891.96	18.33	49.653		
2,800.00	2,739.40	2,554.29	2,501.29	12.84	11.50	162.41	442.29	-162.41	958.24	939.20	19.04	50.324		
2,900.00	2,836.04	2,641.90	2,586.13	13.40	11.97	162.72	463.89	-165.94	1,006.21	986.46	19.75	50.945		
3,000.00	2,932.68	2,729.52	2,670.97	13.96	12.44	163.00	485.48	-169.48	1,054.20	1,033.74	20.46	51.522		
3,100.00	3,029.33	2,817.14	2,755.81	14.52	12.91	163.26	507.08	-173.01	1,102.21	1,081.03	21.17	52.059		
3,200.00	3,125.97	2,904.76	2,840.66	15.08	13.38	163.50	528.67	-176.55	1,150.23	1,128.34	21.88	52.560		
3,300.00	3,222.61	3,007.62	2,925.50	15.64	13.93	163.71	550.26	-180.08	1,198.27	1,175.61	22.66	52.886		
3,400.00	3,319.25	3,080.00	3,010.34	16.21	14.32	163.91	571.86	-183.62	1,246.32	1,223.01	23.31	53.467		
3,500.00	3,415.89	3,167.62	3,095.19	16.77	14.79	164.10	593.45	-187.15	1,294.38	1,270.35	24.02	53.879		
3,600.00	3,512.53	3,255.24	3,180.03	17.33	15.27	164.27	615.04	-190.69	1,342.45	1,317.71	24.74	54.265		
3,700.00	3,609.17	3,342.86	3,264.87	17.89	15.74	164.43	636.64	-194.22	1,390.52	1,365.07	25.45	54.630		
3,800.00	3,705.81	3,430.48	3,349.72	18.46	16.21	164.58	658.23	-197.76	1,438.61	1,412.44	26.17	54.973		
3,900.00	3,802.46	3,518.10	3,434.56	19.02	16.68	164.72	679.82	-201.29	1,486.70	1,459.82	26.89	55.297		
4,000.00	3,899.10	3,605.72	3,519.40	19.59	17.16	164.86	701.42	-204.83	1,534.80	1,507.20	27.60	55.604		
4,100.00	3,995.74	3,706.67	3,604.25	20.15	17.70	164.98	723.01	-208.36	1,582.91	1,554.54	28.37	55.789		
4,200.00	4,092.38	3,780.95	3,689.09	20.71	18.10	165.10	744.60	-211.90	1,631.02	1,601.98	29.04	56.170		
4,300.00	4,189.02	3,868.57	3,773.93	21.28	18.58	165.21	766.20	-215.43	1,679.14	1,649.38	29.76	56.432		
4,400.00	4,285.66	3,956.19	3,858.78	21.84	19.05	165.31	787.79	-218.97	1,727.26	1,696.79	30.47	56.680		
4,500.00	4,382.30	4,043.81	3,943.62	22.41	19.53	165.41	809.38	-222.50	1,775.38	1,744.19	31.19	56.917		
4,600.00	4,478.94	4,131.43	4,028.46	22.97	20.00	165.50	830.98	-226.04	1,823.51	1,791.60	31.91	57.142		
4,700.00	4,575.59	4,219.05	4,113.30	23.54	20.47	165.59	852.57	-229.57	1,871.64	1,839.01	32.63	57.357		
4,800.00	4,672.23	4,306.67	4,198.15	24.10	20.95	165.67	874.16	-233.11	1,919.78	1,886.43	33.35	57.561		
4,900.00	4,768.87	4,394.29	4,282.99	24.67	21.42	165.75	895.76	-236.64	1,967.92	1,933.85	34.07	57.757		
5,000.00	4,865.51	4,481.91	4,367.83	25.24	21.90	165.83	917.35	-240.18	2,016.06	1,981.27	34.79	57.944		

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 5-6-10
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 5-6-10	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	4,962.15	4,569.53	4,452.68	25.80	22.37	165.90	938.95	-243.71	2,064.20	2,028.69	35.51	58.123		
5,200.00	5,058.79	4,657.15	4,537.52	26.37	22.85	165.97	960.54	-247.25	2,112.35	2,076.11	36.24	58.294		
5,300.00	5,155.43	4,744.77	4,622.36	26.93	23.32	166.03	982.13	-250.78	2,160.50	2,123.54	36.96	58.458		
5,400.00	5,252.07	4,832.38	4,707.21	27.50	23.79	166.10	1,003.73	-254.32	2,208.65	2,170.97	37.68	58.616		
5,500.00	5,348.72	4,920.00	4,792.05	28.07	24.27	166.16	1,025.32	-257.86	2,256.80	2,218.40	38.40	58.767		
5,600.00	5,445.36	5,007.62	4,876.89	28.63	24.74	166.21	1,046.91	-261.39	2,304.95	2,265.83	39.13	58.911		
5,700.00	5,542.00	5,104.76	4,961.74	29.20	25.27	166.27	1,068.51	-264.93	2,353.11	2,313.22	39.89	58.994		
5,800.00	5,638.64	5,182.86	5,046.58	29.76	25.69	166.32	1,090.10	-268.46	2,401.27	2,360.69	40.57	59.184		
5,900.00	5,735.28	5,270.48	5,131.42	30.33	26.17	166.37	1,111.69	-272.00	2,449.42	2,408.13	41.30	59.313		
6,000.00	5,831.92	5,358.10	5,216.26	30.90	26.64	166.42	1,133.29	-275.53	2,497.59	2,455.56	42.02	59.437		
6,100.00	5,928.56	5,445.72	5,301.11	31.46	27.12	166.47	1,154.88	-279.07	2,545.75	2,503.00	42.75	59.556		
6,200.00	6,025.20	5,533.34	5,385.95	32.03	27.59	166.51	1,176.47	-282.60	2,593.91	2,550.44	43.47	59.670		
6,300.00	6,121.85	5,620.96	5,470.79	32.60	28.07	166.56	1,198.07	-286.14	2,642.07	2,597.88	44.20	59.781		
6,400.00	6,218.49	5,708.58	5,555.64	33.16	28.54	166.60	1,219.66	-289.67	2,690.24	2,645.32	44.92	59.887		
6,500.00	6,315.13	5,803.80	5,640.48	33.73	29.06	166.64	1,241.25	-293.21	2,738.41	2,692.73	45.68	59.950		
6,600.00	6,411.77	5,883.82	5,725.32	34.30	29.49	166.68	1,262.85	-296.74	2,786.57	2,740.20	46.37	60.089		
6,700.00	6,508.41	5,971.43	5,810.17	34.86	29.97	166.72	1,284.44	-300.28	2,834.74	2,787.64	47.10	60.185		
6,791.42	6,596.76	6,051.54	5,887.73	35.38	30.40	166.75	1,304.18	-303.51	2,878.78	2,831.01	47.77	60.269		
6,800.00	6,605.05	6,059.06	5,895.02	35.43	30.44	166.78	1,306.04	-303.81	2,882.90	2,835.07	47.83	60.277		
6,900.00	6,702.20	6,147.62	5,980.77	35.97	30.93	167.04	1,327.86	-307.38	2,929.31	2,880.76	48.55	60.331		
7,000.00	6,800.11	6,237.72	6,068.02	36.47	31.41	167.26	1,350.07	-311.02	2,972.69	2,923.41	49.28	60.322		
7,100.00	6,898.67	6,329.24	6,156.64	36.93	31.91	167.45	1,372.62	-314.71	3,012.97	2,962.96	50.01	60.251		
7,200.00	6,997.75	6,422.08	6,246.53	37.34	32.41	167.59	1,395.50	-318.46	3,050.11	2,999.38	50.73	60.124		
7,300.00	7,097.25	6,516.11	6,337.58	37.71	32.92	167.71	1,418.67	-322.25	3,084.07	3,032.62	51.45	59.942		
7,400.00	7,197.04	6,611.23	6,429.69	38.04	33.44	167.80	1,442.12	-326.09	3,114.80	3,062.63	52.17	59.708		
7,500.00	7,296.99	6,707.31	6,522.73	38.32	33.96	167.85	1,465.80	-329.97	3,142.27	3,089.39	52.88	59.427		
7,536.02	7,333.00	7,526.49	7,332.68	38.41	37.19	0.05	1,567.55	-346.87	3,147.30	3,089.93	57.38	54.852		
7,566.02	7,363.00	7,555.85	7,361.99	38.47	37.26	0.02	1,567.56	-348.47	3,147.31	3,089.75	57.56	54.679		
7,600.00	7,396.96	7,588.92	7,394.87	38.55	37.35	89.72	1,567.57	-352.08	3,147.32	3,089.55	57.77	54.477		
7,650.00	7,446.68	7,637.32	7,442.47	38.68	37.48	89.65	1,567.61	-360.75	3,147.34	3,089.23	58.11	54.162		
7,700.00	7,495.77	7,685.42	7,488.88	38.82	37.61	89.58	1,567.67	-373.33	3,147.37	3,088.90	58.47	53.832		
7,750.00	7,543.84	7,733.24	7,533.82	38.97	37.75	89.52	1,567.74	-389.64	3,147.39	3,088.55	58.84	53.489		
7,800.00	7,590.54	7,780.80	7,577.01	39.12	37.90	89.46	1,567.82	-409.52	3,147.42	3,088.18	59.24	53.131		
7,850.00	7,635.50	7,828.12	7,618.20	39.27	38.04	89.40	1,567.92	-432.79	3,147.45	3,087.79	59.66	52.756		
7,900.00	7,678.39	7,875.23	7,657.15	39.44	38.19	89.35	1,568.04	-459.25	3,147.48	3,087.37	60.11	52.360		
7,950.00	7,718.88	7,922.13	7,693.65	39.60	38.35	89.30	1,568.16	-488.68	3,147.51	3,086.91	60.60	51.940		
8,000.00	7,756.67	7,968.85	7,727.50	39.78	38.52	89.26	1,568.30	-520.88	3,147.54	3,086.41	61.13	51.491		
8,050.00	7,791.45	8,015.43	7,758.51	39.96	38.69	89.22	1,568.45	-555.60	3,147.57	3,085.86	61.71	51.006		
8,100.00	7,822.98	8,061.87	7,786.53	40.15	38.87	89.19	1,568.61	-592.62	3,147.59	3,085.24	62.35	50.483		
8,150.00	7,851.01	8,108.20	7,811.41	40.35	39.07	89.17	1,568.78	-631.70	3,147.61	3,084.55	63.06	49.916		
8,200.00	7,875.32	8,154.44	7,833.01	40.57	39.28	89.15	1,568.96	-672.57	3,147.62	3,083.78	63.84	49.305		
8,250.00	7,895.74	8,200.63	7,851.22	40.81	39.51	89.13	1,569.14	-715.00	3,147.63	3,082.93	64.70	48.650		
8,300.00	7,912.10	8,246.77	7,865.94	41.06	39.76	89.12	1,569.33	-758.71	3,147.64	3,082.00	65.64	47.952		
8,350.00	7,924.28	8,292.89	7,877.10	41.34	40.04	89.12	1,569.52	-803.45	3,147.64	3,080.97	66.66	47.219		
8,400.00	7,932.19	8,339.02	7,884.63	41.65	40.34	89.13	1,569.72	-848.95	3,147.63	3,079.88	67.75	46.457		
8,450.00	7,935.77	8,385.17	7,888.47	41.99	40.68	89.14	1,569.92	-894.93	3,147.62	3,078.71	68.91	45.678		
8,466.09	7,936.00	8,400.04	7,888.92	42.10	40.79	89.14	1,569.98	-909.79	3,147.61	3,078.32	69.29	45.427		
8,500.00	7,936.00	8,433.14	7,889.00	42.35	41.06	89.14	1,570.12	-942.89	3,147.61	3,077.46	70.16	44.866		
8,600.00	7,936.00	8,533.13	7,889.00	43.20	41.96	89.14	1,570.55	-1,042.88	3,147.61	3,074.69	72.92	43.167		
8,700.00	7,936.00	8,633.13	7,889.00	44.20	43.02	89.14	1,570.99	-1,142.88	3,147.60	3,071.65	75.95	41.441		
8,800.00	7,935.99	8,733.13	7,889.00	45.35	44.23	89.14	1,571.42	-1,242.87	3,147.60	3,068.36	79.24	39.722		
8,900.00	7,935.99	8,833.12	7,888.99	46.65	45.60	89.14	1,571.85	-1,342.87	3,147.60	3,064.85	82.75	38.038		

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 5-6-10
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 5-6-10	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 5-6-2 - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error:		0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
9,000.00	7,935.99	8,933.12	7,888.99	48.10	47.10	89.14	1,572.28	-1,442.86	3,147.59	3,061.14	86.45	36.410					
9,100.00	7,935.99	9,033.11	7,888.99	49.67	48.72	89.14	1,572.71	-1,542.86	3,147.59	3,057.27	90.32	34.850					
9,200.00	7,935.99	9,133.11	7,888.99	51.37	50.45	89.14	1,573.14	-1,642.85	3,147.59	3,053.25	94.34	33.365					
9,300.00	7,935.99	9,233.11	7,888.99	53.16	52.28	89.14	1,573.58	-1,742.85	3,147.58	3,049.10	98.49	31.960					
9,400.00	7,935.98	9,333.10	7,888.99	55.05	54.19	89.14	1,574.01	-1,842.84	3,147.58	3,044.83	102.75	30.634					
9,500.00	7,935.98	9,433.10	7,888.99	57.02	56.18	89.14	1,574.44	-1,942.84	3,147.58	3,040.47	107.11	29.386					
9,600.00	7,935.98	9,533.10	7,888.99	59.06	58.23	89.14	1,574.87	-2,042.84	3,147.58	3,036.01	111.57	28.213					
9,700.00	7,935.98	9,633.09	7,888.99	61.16	60.34	89.14	1,575.31	-2,142.83	3,147.57	3,031.48	116.10	27.111					
9,800.00	7,935.98	9,733.09	7,888.99	63.31	62.50	89.14	1,575.74	-2,242.83	3,147.57	3,026.87	120.70	26.078					
9,900.00	7,935.97	9,833.08	7,888.98	65.50	64.70	89.14	1,576.17	-2,342.82	3,147.57	3,022.20	125.36	25.108					
10,000.00	7,935.97	9,933.08	7,888.98	67.74	66.94	89.14	1,576.61	-2,442.82	3,147.57	3,017.48	130.08	24.197					
10,100.00	7,935.97	10,033.08	7,888.98	70.02	69.22	89.14	1,577.04	-2,542.81	3,147.56	3,012.71	134.85	23.341					
10,200.00	7,935.97	10,133.07	7,888.98	72.32	71.53	89.14	1,577.47	-2,642.81	3,147.56	3,007.90	139.67	22.536					
10,300.00	7,935.97	10,233.07	7,888.98	74.66	73.86	89.14	1,577.90	-2,742.80	3,147.56	3,003.04	144.52	21.779					
10,400.00	7,935.97	10,333.07	7,888.98	77.02	76.22	89.14	1,578.34	-2,842.80	3,147.56	2,998.15	149.41	21.067					
10,500.00	7,935.96	10,433.06	7,888.98	79.41	78.61	89.14	1,578.77	-2,942.79	3,147.56	2,993.22	154.33	20.395					
10,600.00	7,935.96	10,533.06	7,888.98	81.81	81.01	89.14	1,579.21	-3,042.79	3,147.56	2,988.27	159.29	19.760					
10,700.00	7,935.96	10,633.05	7,888.98	84.24	83.43	89.14	1,579.64	-3,142.78	3,147.55	2,983.29	164.27	19.161					
10,800.00	7,935.96	10,733.05	7,888.98	86.68	85.87	89.14	1,580.07	-3,242.78	3,147.55	2,978.28	169.27	18.595					
10,900.00	7,935.96	10,833.05	7,888.98	89.14	88.33	89.14	1,580.51	-3,342.77	3,147.55	2,973.25	174.30	18.059					
11,000.00	7,935.95	10,933.04	7,888.98	91.61	90.80	89.14	1,580.94	-3,442.77	3,147.55	2,968.21	179.35	17.550					
11,100.00	7,935.95	11,033.04	7,888.97	94.10	93.28	89.14	1,581.38	-3,542.77	3,147.55	2,963.14	184.41	17.068					
11,200.00	7,935.95	11,133.04	7,888.97	96.59	95.77	89.14	1,581.81	-3,642.76	3,147.55	2,958.05	189.50	16.610					
11,300.00	7,935.95	11,233.03	7,888.97	99.10	98.28	89.14	1,582.25	-3,742.76	3,147.55	2,952.95	194.60	16.175					
11,400.00	7,935.95	11,333.03	7,888.97	101.62	100.79	89.14	1,582.68	-3,842.75	3,147.55	2,947.84	199.71	15.761					
11,500.00	7,935.95	11,433.02	7,888.97	104.15	103.31	89.14	1,583.11	-3,942.75	3,147.55	2,942.71	204.84	15.366					
11,600.00	7,935.94	11,533.02	7,888.97	106.68	105.84	89.14	1,583.55	-4,042.74	3,147.55	2,937.57	209.98	14.990					
11,700.00	7,935.94	11,633.02	7,888.97	109.23	108.38	89.14	1,583.98	-4,142.74	3,147.55	2,932.41	215.13	14.631					
11,757.02	7,935.94	11,709.97	7,888.97	110.68	110.34	89.14	1,584.23	-4,199.75	3,147.55	2,928.96	218.59	14.399					
11,800.00	7,935.94	11,733.01	7,888.97	111.78	110.93	89.14	1,584.42	-4,242.73	3,147.55	2,927.25	220.30	14.288					
11,900.00	7,935.94	11,833.01	7,888.97	114.33	113.48	89.15	1,584.85	-4,342.73	3,147.55	2,922.07	225.47	13.960					
12,000.00	7,935.94	11,933.01	7,888.97	116.90	116.05	89.15	1,585.29	-4,442.72	3,147.55	2,916.89	230.66	13.646					
12,100.00	7,935.93	12,033.00	7,888.97	119.47	118.61	89.15	1,585.73	-4,542.72	3,147.55	2,911.70	235.85	13.346					
12,200.00	7,935.93	12,133.00	7,888.97	122.04	121.18	89.15	1,586.16	-4,642.71	3,147.55	2,906.50	241.05	13.058					
12,300.00	7,935.93	12,233.00	7,888.97	124.63	123.76	89.15	1,586.60	-4,742.71	3,147.55	2,901.29	246.26	12.781					
12,400.00	7,935.93	12,332.99	7,888.97	127.21	126.34	89.15	1,587.03	-4,842.70	3,147.55	2,896.07	251.48	12.516					
12,500.00	7,935.93	12,432.99	7,888.97	129.80	128.93	89.15	1,587.47	-4,942.70	3,147.55	2,890.85	256.70	12.262					
12,600.00	7,935.93	12,532.98	7,888.97	132.40	131.52	89.15	1,587.91	-5,042.70	3,147.55	2,885.62	261.93	12.017					
12,700.00	7,935.92	12,632.98	7,888.97	135.00	134.11	89.15	1,588.34	-5,142.69	3,147.55	2,880.39	267.16	11.781					
12,800.00	7,935.92	12,732.98	7,888.97	137.60	136.71	89.15	1,588.78	-5,242.69	3,147.55	2,875.15	272.40	11.555					
12,900.00	7,935.92	12,832.97	7,888.97	140.20	139.31	89.15	1,589.21	-5,342.68	3,147.55	2,869.90	277.65	11.336					
13,000.00	7,935.92	12,932.97	7,888.97	142.81	141.92	89.15	1,589.65	-5,442.68	3,147.56	2,864.65	282.90	11.126					
13,100.00	7,935.92	13,032.97	7,888.97	145.43	144.53	89.15	1,590.09	-5,542.67	3,147.56	2,859.40	288.16	10.923					
13,200.00	7,935.91	13,132.96	7,888.97	148.04	147.14	89.15	1,590.52	-5,642.67	3,147.56	2,854.14	293.42	10.727					
13,300.00	7,935.91	13,232.96	7,888.97	150.66	149.75	89.15	1,590.96	-5,742.66	3,147.56	2,848.87	298.69	10.538					
13,400.00	7,935.91	13,332.95	7,888.97	153.28	152.37	89.15	1,591.40	-5,842.66	3,147.56	2,843.61	303.96	10.355					
13,500.00	7,935.91	13,432.95	7,888.97	155.90	154.99	89.15	1,591.84	-5,942.65	3,147.56	2,838.33	309.23	10.179					
13,600.00	7,935.91	13,532.95	7,888.97	158.53	157.61	89.15	1,592.27	-6,042.65	3,147.57	2,833.06	314.51	10.008					
13,700.00	7,935.91	13,632.94	7,888.97	161.16	160.23	89.15	1,592.71	-6,142.64	3,147.57	2,827.78	319.79	9.843					
13,800.00	7,935.90	13,732.94	7,888.97	163.79	162.86	89.15	1,593.15	-6,242.64	3,147.57	2,822.50	325.07	9.683					
13,900.00	7,935.90	13,832.94	7,888.97	166.42	165.49	89.15	1,593.59	-6,342.63	3,147.57	2,817.21	330.36	9.528					
14,000.00	7,935.90	13,932.93	7,888.97	169.05	168.12	89.15	1,594.02	-6,442.63	3,147.58	2,811.93	335.65	9.378					

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 5-6-10
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 5-6-10	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	7,935.90	14,032.93	7,888.97	171.69	170.75	89.15	1,594.46	-6,542.62	3,147.58	2,806.64	340.94	9.232		
14,200.00	7,935.90	14,132.92	7,888.97	174.33	173.38	89.15	1,594.90	-6,642.62	3,147.58	2,801.34	346.24	9.091		
14,300.00	7,935.89	14,232.92	7,888.97	176.97	176.02	89.15	1,595.34	-6,742.62	3,147.58	2,796.05	351.54	8.954		
14,400.00	7,935.89	14,332.92	7,888.97	179.61	178.66	89.15	1,595.78	-6,842.61	3,147.59	2,790.75	356.84	8.821		
14,500.00	7,935.89	14,432.91	7,888.97	182.25	181.29	89.15	1,596.21	-6,942.61	3,147.59	2,785.45	362.14	8.692		
14,600.00	7,935.89	14,532.91	7,888.97	184.90	183.94	89.15	1,596.65	-7,042.60	3,147.59	2,780.15	367.45	8.566		
14,700.00	7,935.89	14,632.91	7,888.97	187.54	186.58	89.15	1,597.09	-7,142.60	3,147.60	2,774.84	372.75	8.444		
14,800.00	7,935.89	14,732.90	7,888.97	190.19	189.22	89.15	1,597.53	-7,242.59	3,147.60	2,769.54	378.07	8.326		
14,900.00	7,935.88	14,832.90	7,888.97	192.84	191.86	89.15	1,597.97	-7,342.59	3,147.60	2,764.23	383.38	8.210		
15,000.00	7,935.88	14,932.89	7,888.97	195.49	194.51	89.15	1,598.41	-7,442.58	3,147.61	2,758.92	388.69	8.098		
15,100.00	7,935.88	15,032.89	7,888.97	198.14	197.16	89.15	1,598.85	-7,542.58	3,147.61	2,753.60	394.01	7.989		
15,200.00	7,935.88	15,132.89	7,888.97	200.79	199.81	89.15	1,599.29	-7,642.57	3,147.62	2,748.29	399.32	7.882		
15,300.00	7,935.88	15,232.88	7,888.97	203.44	202.45	89.15	1,599.73	-7,742.57	3,147.62	2,742.98	404.64	7.779		
15,400.00	7,935.87	15,332.88	7,888.97	206.10	205.10	89.15	1,600.16	-7,842.56	3,147.62	2,737.66	409.97	7.678		
15,500.00	7,935.87	15,432.88	7,888.97	208.75	207.76	89.15	1,600.60	-7,942.56	3,147.63	2,732.34	415.29	7.579		
15,600.00	7,935.87	15,532.87	7,888.98	211.41	210.41	89.15	1,601.04	-8,042.55	3,147.63	2,727.02	420.61	7.483		
15,700.00	7,935.87	15,632.87	7,888.98	214.07	213.06	89.15	1,601.48	-8,142.55	3,147.64	2,721.70	425.94	7.390		
15,800.00	7,935.87	15,732.86	7,888.98	216.72	215.72	89.15	1,601.92	-8,242.54	3,147.64	2,716.38	431.26	7.299		
15,900.00	7,935.87	15,832.86	7,888.98	219.38	218.37	89.15	1,602.36	-8,342.54	3,147.65	2,711.05	436.59	7.210		
16,000.00	7,935.86	15,932.86	7,888.98	222.04	221.03	89.15	1,602.80	-8,442.54	3,147.65	2,705.73	441.92	7.123		
16,100.00	7,935.86	16,032.85	7,888.98	224.70	223.68	89.15	1,603.24	-8,542.53	3,147.66	2,700.40	447.25	7.038		
16,200.00	7,935.86	16,132.85	7,888.98	227.37	226.34	89.15	1,603.68	-8,642.53	3,147.66	2,695.08	452.59	6.955		
16,300.00	7,935.86	16,232.85	7,888.98	230.03	229.00	89.15	1,604.12	-8,742.52	3,147.67	2,689.75	457.92	6.874		
16,400.00	7,935.86	16,332.84	7,888.98	232.69	231.66	89.15	1,604.57	-8,842.52	3,147.67	2,684.42	463.25	6.795		
16,500.00	7,935.85	16,432.84	7,888.98	235.35	234.32	89.15	1,605.01	-8,942.51	3,147.68	2,679.09	468.59	6.717		
16,600.00	7,935.85	16,532.83	7,888.98	238.02	236.98	89.15	1,605.45	-9,042.51	3,147.68	2,673.76	473.93	6.642		
16,700.00	7,935.85	16,632.83	7,888.98	240.68	239.64	89.15	1,605.89	-9,142.50	3,147.69	2,668.43	479.26	6.568		
16,800.00	7,935.85	16,732.83	7,888.98	243.35	242.30	89.15	1,606.33	-9,242.50	3,147.70	2,663.09	484.60	6.495		
16,900.00	7,935.85	16,832.82	7,888.99	246.01	244.96	89.15	1,606.77	-9,342.49	3,147.70	2,657.76	489.94	6.425		
17,000.00	7,935.85	16,932.82	7,888.99	248.68	247.63	89.15	1,607.21	-9,442.49	3,147.71	2,652.43	495.28	6.355		
17,100.00	7,935.84	17,032.82	7,888.99	251.35	250.29	89.15	1,607.65	-9,542.48	3,147.71	2,647.09	500.62	6.288		
17,200.00	7,935.84	17,132.81	7,888.99	254.02	252.95	89.15	1,608.09	-9,642.48	3,147.72	2,641.75	505.97	6.221		
17,300.00	7,935.84	17,232.81	7,888.99	256.69	255.62	89.15	1,608.54	-9,742.47	3,147.73	2,636.42	511.31	6.156		
17,400.00	7,935.84	17,332.80	7,888.99	259.35	258.28	89.15	1,608.98	-9,842.47	3,147.73	2,631.08	516.65	6.093		
17,500.00	7,935.84	17,432.80	7,888.99	262.02	260.95	89.15	1,609.42	-9,942.46	3,147.74	2,625.74	522.00	6.030		
17,600.00	7,935.83	17,532.80	7,888.99	264.69	263.61	89.15	1,609.86	-10,042.46	3,147.75	2,620.40	527.34	5.969		
17,700.00	7,935.83	17,632.79	7,888.99	267.36	266.28	89.15	1,610.30	-10,142.46	3,147.75	2,615.06	532.69	5.909		
17,800.00	7,935.83	17,732.79	7,889.00	270.03	268.95	89.15	1,610.75	-10,242.45	3,147.76	2,609.72	538.04	5.850		
17,900.00	7,935.83	17,832.79	7,889.00	272.71	271.62	89.15	1,611.19	-10,342.45	3,147.77	2,604.38	543.38	5.793		
18,000.00	7,935.83	17,932.78	7,889.00	275.38	274.28	89.15	1,611.63	-10,442.44	3,147.78	2,599.04	548.73	5.736		
18,100.00	7,935.83	18,032.78	7,889.00	278.05	276.95	89.15	1,612.07	-10,542.44	3,147.78	2,593.70	554.08	5.681		
18,152.76	7,935.82	18,085.54	7,889.00	279.46	278.36	89.15	1,612.31	-10,595.19	3,147.79	2,590.88	556.90	5.652		
18,153.00	7,936.00	18,085.77	7,889.00	279.47	278.37	89.14	1,612.31	-10,595.43	3,147.64	2,590.72	556.92	5.652 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	599.98	599.98	599.98	1.91	1.93	78.45	0.00	-106.87	106.51	102.67	3.84	27.763		
699.91	699.75	698.75	698.73	2.25	2.28	82.09	1.67	-107.22	106.05	101.53	4.52	23.444 CC		
700.00	699.84	698.84	698.82	2.25	2.28	82.09	1.67	-107.22	106.05	101.53	4.52	23.441 ES		
800.00	799.45	796.68	796.53	2.59	2.63	89.18	6.61	-108.23	107.15	101.93	5.22	20.514		
900.00	898.70	892.87	892.36	2.96	2.98	98.95	14.65	-109.88	112.16	106.22	5.94	18.896		
1,000.00	997.47	986.79	985.61	3.35	3.33	109.85	25.54	-112.11	123.76	117.11	6.65	18.600		
1,100.00	1,095.62	1,077.90	1,075.69	3.77	3.68	120.15	38.96	-114.86	143.81	136.45	7.36	19.540		
1,200.00	1,193.06	1,165.82	1,162.15	4.22	4.04	128.77	54.56	-118.05	172.73	164.69	8.04	21.493		
1,244.60	1,236.24	1,206.18	1,201.73	4.43	4.20	132.15	62.30	-119.64	188.09	179.73	8.35	22.519		
1,300.00	1,289.78	1,256.14	1,250.72	4.71	4.42	136.03	71.88	-121.60	208.28	199.55	8.73	23.845		
1,400.00	1,386.43	1,346.32	1,339.16	5.21	4.80	141.44	89.17	-125.14	246.44	237.02	9.42	26.162		
1,500.00	1,483.07	1,436.50	1,427.59	5.73	5.20	145.44	106.47	-128.68	286.05	275.94	10.11	28.304		
1,600.00	1,579.71	1,526.68	1,516.03	6.25	5.60	148.48	123.76	-132.23	326.57	315.77	10.79	30.253		
1,700.00	1,676.35	1,616.86	1,604.46	6.78	6.00	150.85	141.05	-135.77	367.70	356.22	11.49	32.014		
1,800.00	1,772.99	1,707.03	1,692.89	7.32	6.41	152.76	158.34	-139.31	409.27	397.09	12.18	33.601		
1,900.00	1,869.63	1,802.79	1,781.33	7.86	6.85	154.32	175.64	-142.85	451.15	438.25	12.90	34.977		
2,000.00	1,966.27	1,887.39	1,869.76	8.41	7.24	155.62	192.93	-146.40	493.25	479.68	13.58	36.330		
2,100.00	2,062.91	1,977.57	1,958.19	8.96	7.65	156.71	210.22	-149.94	535.54	521.26	14.28	37.505		
2,200.00	2,159.55	2,067.75	2,046.63	9.51	8.07	157.64	227.51	-153.48	577.96	562.98	14.98	38.573		
2,300.00	2,256.20	2,157.92	2,135.06	10.06	8.49	158.45	244.80	-157.02	620.50	604.81	15.69	39.548		
2,400.00	2,352.84	2,248.10	2,223.50	10.61	8.91	159.16	262.10	-160.56	663.12	646.72	16.40	40.440		
2,500.00	2,449.48	2,338.28	2,311.93	11.17	9.33	159.78	279.39	-164.11	705.81	688.71	17.11	41.259		
2,600.00	2,546.12	2,428.46	2,400.36	11.72	9.75	160.33	296.68	-167.65	748.57	730.75	17.82	42.013		
2,700.00	2,642.76	2,518.64	2,488.80	12.28	10.18	160.82	313.97	-171.19	791.37	772.84	18.53	42.709		
2,800.00	2,739.40	2,608.82	2,577.23	12.84	10.60	161.26	331.27	-174.73	834.22	814.98	19.24	43.353		
2,900.00	2,836.04	2,701.01	2,665.67	13.40	11.04	161.65	348.56	-178.28	877.10	857.14	19.96	43.934		
3,000.00	2,932.68	2,789.17	2,754.10	13.96	11.45	162.01	365.85	-181.82	920.02	899.35	20.67	44.507		
3,100.00	3,029.33	2,879.35	2,842.53	14.52	11.88	162.34	383.14	-185.36	962.96	941.58	21.39	45.025		
3,200.00	3,125.97	2,969.53	2,930.97	15.08	12.30	162.64	400.44	-188.90	1,005.93	983.83	22.10	45.509		
3,300.00	3,222.61	3,059.71	3,019.40	15.64	12.73	162.92	417.73	-192.45	1,048.92	1,026.10	22.82	45.962		
3,400.00	3,319.25	3,149.89	3,107.83	16.21	13.16	163.17	435.02	-195.99	1,091.92	1,068.38	23.54	46.388		
3,500.00	3,415.89	3,240.06	3,196.27	16.77	13.58	163.41	452.31	-199.53	1,134.94	1,110.69	24.26	46.787		
3,600.00	3,512.53	3,330.24	3,284.70	17.33	14.01	163.63	469.60	-203.07	1,177.98	1,153.00	24.98	47.163		
3,700.00	3,609.17	3,420.42	3,373.14	17.89	14.44	163.83	486.90	-206.61	1,221.03	1,195.33	25.70	47.517		
3,800.00	3,705.81	3,510.60	3,461.57	18.46	14.87	164.02	504.19	-210.16	1,264.09	1,237.67	26.42	47.852		
3,900.00	3,802.46	3,600.78	3,550.00	19.02	15.30	164.19	521.48	-213.70	1,307.16	1,280.02	27.14	48.168		
4,000.00	3,899.10	3,709.05	3,638.44	19.59	15.81	164.36	538.77	-217.24	1,350.24	1,322.31	27.93	48.346		
4,100.00	3,995.74	3,781.13	3,726.87	20.15	16.15	164.51	556.07	-220.78	1,393.33	1,364.75	28.58	48.751		
4,200.00	4,092.38	3,871.31	3,815.30	20.71	16.58	164.66	573.36	-224.33	1,436.43	1,407.12	29.30	49.021		
4,300.00	4,189.02	3,961.49	3,903.74	21.28	17.01	164.80	590.65	-227.87	1,479.53	1,449.51	30.02	49.277		
4,400.00	4,285.66	4,051.67	3,992.17	21.84	17.44	164.93	607.94	-231.41	1,522.64	1,491.89	30.75	49.520		
4,500.00	4,382.30	4,141.85	4,080.61	22.41	17.87	165.05	625.23	-234.95	1,565.76	1,534.29	31.47	49.752		
4,600.00	4,478.94	4,232.02	4,169.04	22.97	18.30	165.16	642.53	-238.50	1,608.88	1,576.69	32.19	49.974		
4,700.00	4,575.59	4,322.20	4,257.47	23.54	18.73	165.27	659.82	-242.04	1,652.01	1,619.09	32.92	50.185		
4,800.00	4,672.23	4,412.38	4,345.91	24.10	19.16	165.38	677.11	-245.58	1,695.14	1,661.50	33.64	50.386		
4,900.00	4,768.87	4,502.56	4,434.34	24.67	19.59	165.48	694.40	-249.12	1,738.28	1,703.91	34.37	50.579		

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 5-6-10
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 5-6-10	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	4,865.51	4,607.26	4,522.78	25.24	20.09	165.57	711.70	-252.66	1,781.42	1,746.27	35.15	50.682		
5,100.00	4,962.15	4,682.91	4,611.21	25.80	20.45	165.66	728.99	-256.21	1,824.56	1,788.74	35.82	50.940		
5,200.00	5,058.79	4,773.09	4,699.64	26.37	20.88	165.75	746.28	-259.75	1,867.71	1,831.16	36.54	51.110		
5,300.00	5,155.43	4,863.27	4,788.08	26.93	21.31	165.83	763.57	-263.29	1,910.86	1,873.59	37.27	51.272		
5,400.00	5,252.07	4,953.45	4,876.51	27.50	21.74	165.91	780.86	-266.83	1,954.01	1,916.02	38.00	51.428		
5,500.00	5,348.72	5,043.63	4,964.94	28.07	22.17	165.98	798.16	-270.38	1,997.17	1,958.45	38.72	51.577		
5,600.00	5,445.36	5,133.81	5,053.38	28.63	22.60	166.05	815.45	-273.92	2,040.33	2,000.88	39.45	51.721		
5,700.00	5,542.00	5,223.98	5,141.81	29.20	23.03	166.12	832.74	-277.46	2,083.49	2,043.31	40.18	51.859		
5,800.00	5,638.64	5,314.16	5,230.25	29.76	23.46	166.19	850.03	-281.00	2,126.65	2,085.75	40.90	51.992		
5,900.00	5,735.28	5,404.34	5,318.68	30.33	23.89	166.25	867.33	-284.54	2,169.82	2,128.19	41.63	52.120		
6,000.00	5,831.92	5,505.48	5,407.11	30.90	24.37	166.31	884.62	-288.09	2,212.99	2,170.59	42.40	52.191		
6,100.00	5,928.56	5,584.70	5,495.55	31.46	24.75	166.37	901.91	-291.63	2,256.16	2,213.07	43.09	52.363		
6,200.00	6,025.20	5,674.88	5,583.98	32.03	25.18	166.43	919.20	-295.17	2,299.33	2,255.51	43.82	52.477		
6,300.00	6,121.85	5,765.05	5,672.42	32.60	25.62	166.48	936.49	-298.71	2,342.50	2,297.96	44.54	52.588		
6,400.00	6,218.49	5,855.23	5,760.85	33.16	26.05	166.53	953.79	-302.26	2,385.68	2,340.41	45.27	52.695		
6,500.00	6,315.13	5,945.41	5,849.28	33.73	26.48	166.58	971.08	-305.80	2,428.86	2,382.85	46.00	52.798		
6,600.00	6,411.77	6,035.59	5,937.72	34.30	26.91	166.63	988.37	-309.34	2,472.03	2,425.30	46.73	52.897		
6,700.00	6,508.41	6,125.77	6,026.15	34.86	27.34	166.68	1,005.66	-312.88	2,515.21	2,467.75	47.46	52.994		
6,791.42	6,596.76	6,208.21	6,107.00	35.38	27.73	166.72	1,021.47	-316.12	2,554.69	2,506.56	48.13	53.079		
6,800.00	6,605.05	6,215.95	6,114.59	35.43	27.77	166.74	1,022.96	-316.43	2,558.38	2,510.19	48.19	53.087		
6,900.00	6,702.20	6,306.97	6,203.85	35.97	28.21	166.98	1,040.41	-320.00	2,599.76	2,550.84	48.92	53.141		
7,000.00	6,800.11	6,400.64	6,294.45	36.47	28.65	167.18	1,058.13	-323.63	2,638.02	2,588.36	49.65	53.128		
7,100.00	6,898.67	6,507.01	6,386.27	36.93	29.16	167.34	1,076.08	-327.31	2,673.11	2,622.68	50.43	53.007		
7,200.00	6,997.75	6,587.76	6,479.21	37.34	29.55	167.46	1,094.25	-331.03	2,704.99	2,653.89	51.10	52.939		
7,300.00	7,097.25	6,683.56	6,573.15	37.71	30.01	167.55	1,112.62	-334.79	2,733.63	2,681.81	51.81	52.759		
7,400.00	7,197.04	7,311.18	7,196.78	38.04	32.35	167.55	1,170.45	-346.83	2,747.05	2,691.53	55.52	49.476		
7,500.00	7,296.99	7,408.13	7,293.02	38.32	32.63	167.36	1,170.50	-357.50	2,750.04	2,693.85	56.19	48.942		
7,536.02	7,333.00	7,441.82	7,325.86	38.41	32.74	-0.32	1,170.53	-364.99	2,750.33	2,693.91	56.43	48.740		
7,566.02	7,363.00	7,469.13	7,352.11	38.47	32.82	-0.48	1,170.56	-372.47	2,750.43	2,693.81	56.62	48.573		
7,600.00	7,396.96	7,499.41	7,380.78	38.55	32.92	89.07	1,170.61	-382.22	2,750.58	2,693.73	56.85	48.382		
7,650.00	7,446.68	7,543.21	7,421.24	38.68	33.07	88.78	1,170.68	-398.97	2,750.86	2,693.66	57.20	48.088		
7,700.00	7,495.77	7,586.20	7,459.60	38.82	33.21	88.50	1,170.77	-418.37	2,751.20	2,693.63	57.57	47.787		
7,750.00	7,543.84	7,628.46	7,495.78	38.97	33.36	88.24	1,170.86	-440.19	2,751.59	2,693.63	57.96	47.478		
7,800.00	7,590.54	7,670.06	7,529.73	39.12	33.51	87.98	1,170.97	-464.21	2,752.01	2,693.66	58.36	47.159		
7,850.00	7,635.50	7,711.08	7,561.41	39.27	33.67	87.73	1,171.08	-490.25	2,752.47	2,693.69	58.78	46.829		
7,900.00	7,678.39	7,751.58	7,590.79	39.44	33.83	87.50	1,171.20	-518.12	2,752.93	2,693.71	59.22	46.484		
7,950.00	7,718.88	7,791.62	7,617.83	39.60	33.99	87.29	1,171.33	-547.64	2,753.40	2,693.70	59.70	46.117		
8,000.00	7,756.67	7,831.25	7,642.49	39.78	34.17	87.09	1,171.47	-578.65	2,753.86	2,693.64	60.22	45.727		
8,050.00	7,791.45	7,870.53	7,664.77	39.96	34.35	86.91	1,171.61	-610.99	2,754.30	2,693.52	60.79	45.310		
8,100.00	7,822.98	7,909.50	7,684.63	40.15	34.55	86.75	1,171.76	-644.51	2,754.72	2,693.31	61.40	44.864		
8,150.00	7,851.01	7,948.21	7,702.05	40.35	34.76	86.61	1,171.91	-679.07	2,755.09	2,693.02	62.07	44.385		
8,200.00	7,875.32	7,986.70	7,717.03	40.57	34.99	86.49	1,172.07	-714.52	2,755.42	2,692.61	62.81	43.867		
8,250.00	7,895.74	8,025.02	7,729.54	40.81	35.24	86.39	1,172.23	-750.73	2,755.70	2,692.08	63.62	43.317		
8,300.00	7,912.10	8,063.20	7,739.57	41.06	35.52	86.32	1,172.39	-787.56	2,755.91	2,691.43	64.49	42.736		
8,350.00	7,924.28	8,100.00	7,746.90	41.34	35.80	86.27	1,172.55	-823.62	2,756.07	2,690.66	65.40	42.139		
8,400.00	7,932.19	8,139.29	7,752.15	41.65	36.13	86.24	1,172.72	-862.55	2,756.16	2,689.73	66.42	41.494		
8,450.00	7,935.77	8,177.28	7,754.68	41.99	36.48	86.23	1,172.89	-900.44	2,756.17	2,688.70	67.48	40.845		
8,466.09	7,936.00	8,189.51	7,754.96	42.10	36.59	86.23	1,172.94	-912.67	2,756.17	2,688.34	67.83	40.635		
8,474.92	7,936.00	8,196.83	7,755.00	42.16	36.67	86.23	1,172.97	-919.29	2,756.16	2,688.13	68.03	40.514		
8,500.00	7,936.00	8,221.21	7,755.00	42.35	36.91	86.23	1,173.08	-944.37	2,756.16	2,687.48	68.68	40.130		
8,600.00	7,936.00	8,321.21	7,755.00	43.20	38.02	86.23	1,173.52	-1,044.37	2,756.17	2,684.70	71.47	38.566		
8,700.00	7,936.00	8,421.21	7,755.00	44.20	39.30	86.23	1,173.96	-1,144.37	2,756.17	2,681.64	74.53	36.979		

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

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 4-T4S-R65W - JAMASO 4-6S 5-6-3 - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG														Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
8,800.00	7,935.99	8,521.21	7,755.00	45.35	40.74	86.23	1,174.40	-1,244.37	2,756.18	2,678.32	77.85	35.402				
8,900.00	7,935.99	8,621.21	7,755.00	46.65	42.31	86.23	1,174.84	-1,344.37	2,756.18	2,674.79	81.39	33.863				
9,000.00	7,935.99	8,721.21	7,754.99	48.10	44.01	86.23	1,175.28	-1,444.37	2,756.18	2,671.06	85.12	32.379				
9,100.00	7,935.99	8,821.21	7,754.99	49.67	45.82	86.23	1,175.72	-1,544.37	2,756.19	2,667.17	89.02	30.961				
9,200.00	7,935.99	8,921.21	7,754.99	51.37	47.72	86.23	1,176.16	-1,644.37	2,756.19	2,663.13	93.07	29.615				
9,300.00	7,935.99	9,021.21	7,754.99	53.16	49.70	86.23	1,176.59	-1,744.36	2,756.20	2,658.96	97.24	28.344				
9,400.00	7,935.98	9,121.21	7,754.99	55.05	51.75	86.23	1,177.03	-1,844.36	2,756.20	2,654.67	101.53	27.147				
9,500.00	7,935.98	9,221.21	7,754.99	57.02	53.86	86.23	1,177.47	-1,944.36	2,756.21	2,650.29	105.92	26.022				
9,600.00	7,935.98	9,321.21	7,754.99	59.06	56.02	86.23	1,177.91	-2,044.36	2,756.21	2,645.82	110.39	24.968				
9,700.00	7,935.98	9,421.21	7,754.99	61.16	58.23	86.23	1,178.35	-2,144.36	2,756.21	2,641.27	114.94	23.979				
9,800.00	7,935.98	9,521.21	7,754.98	63.31	60.48	86.23	1,178.79	-2,244.36	2,756.22	2,636.66	119.56	23.053				
9,900.00	7,935.97	9,621.21	7,754.98	65.50	62.76	86.23	1,179.23	-2,344.36	2,756.22	2,631.98	124.24	22.185				
10,000.00	7,935.97	9,721.21	7,754.98	67.74	65.08	86.23	1,179.67	-2,444.36	2,756.23	2,627.25	128.97	21.370				
10,100.00	7,935.97	9,821.21	7,754.98	70.02	67.43	86.23	1,180.11	-2,544.36	2,756.23	2,622.47	133.76	20.606				
10,200.00	7,935.97	9,921.21	7,754.98	72.32	69.80	86.23	1,180.55	-2,644.36	2,756.24	2,617.65	138.58	19.889				
10,300.00	7,935.97	10,021.21	7,754.98	74.66	72.20	86.23	1,180.99	-2,744.35	2,756.24	2,612.79	143.45	19.214				
10,400.00	7,935.97	10,121.21	7,754.98	77.02	74.62	86.23	1,181.43	-2,844.35	2,756.24	2,607.90	148.35	18.580				
10,500.00	7,935.96	10,221.21	7,754.98	79.41	77.05	86.24	1,181.87	-2,944.35	2,756.25	2,602.97	153.28	17.982				
10,600.00	7,935.96	10,321.21	7,754.97	81.81	79.50	86.24	1,182.31	-3,044.35	2,756.25	2,598.01	158.24	17.418				
10,700.00	7,935.96	10,421.21	7,754.97	84.24	81.97	86.24	1,182.75	-3,144.35	2,756.26	2,593.03	163.22	16.886				
10,800.00	7,935.96	10,521.21	7,754.97	86.68	84.45	86.24	1,183.19	-3,244.35	2,756.26	2,588.03	168.23	16.383				
10,900.00	7,935.96	10,621.21	7,754.97	89.14	86.95	86.24	1,183.63	-3,344.35	2,756.27	2,583.00	173.27	15.908				
11,000.00	7,935.95	10,721.21	7,754.97	91.61	89.45	86.24	1,184.07	-3,444.35	2,756.27	2,577.95	178.32	15.457				
11,100.00	7,935.95	10,821.21	7,754.97	94.10	91.97	86.24	1,184.51	-3,544.35	2,756.27	2,572.89	183.39	15.030				
11,200.00	7,935.95	10,921.21	7,754.97	96.59	94.50	86.24	1,184.95	-3,644.35	2,756.28	2,567.80	188.48	14.624				
11,300.00	7,935.95	11,021.21	7,754.97	99.10	97.03	86.24	1,185.39	-3,744.35	2,756.28	2,562.71	193.58	14.239				
11,400.00	7,935.95	11,121.21	7,754.97	101.62	99.58	86.24	1,185.82	-3,844.34	2,756.29	2,557.59	198.69	13.872				
11,500.00	7,935.95	11,221.21	7,754.96	104.15	102.13	86.24	1,186.26	-3,944.34	2,756.29	2,552.47	203.82	13.523				
11,600.00	7,935.94	11,321.21	7,754.96	106.68	104.69	86.24	1,186.70	-4,044.34	2,756.30	2,547.33	208.97	13.190				
11,700.00	7,935.94	11,421.21	7,754.96	109.23	107.25	86.24	1,187.14	-4,144.34	2,756.30	2,542.18	214.12	12.873				
11,800.00	7,935.94	11,521.21	7,754.96	111.78	109.82	86.24	1,187.58	-4,244.34	2,756.30	2,537.02	219.28	12.570				
11,900.00	7,935.94	11,621.21	7,754.96	114.33	112.40	86.24	1,188.02	-4,344.34	2,756.31	2,531.85	224.46	12.280				
12,000.00	7,935.94	11,721.21	7,754.96	116.90	114.98	86.24	1,188.46	-4,444.34	2,756.31	2,526.67	229.64	12.003				
12,100.00	7,935.93	11,821.21	7,754.96	119.47	117.57	86.24	1,188.90	-4,544.34	2,756.32	2,521.49	234.83	11.737				
12,200.00	7,935.93	11,921.21	7,754.96	122.04	120.16	86.24	1,189.34	-4,644.34	2,756.32	2,516.29	240.03	11.483				
12,300.00	7,935.93	12,021.21	7,754.95	124.63	122.75	86.24	1,189.78	-4,744.34	2,756.33	2,511.09	245.24	11.239				
12,400.00	7,935.93	12,121.21	7,754.95	127.21	125.35	86.24	1,190.22	-4,844.33	2,756.33	2,505.88	250.45	11.005				
12,500.00	7,935.93	12,221.21	7,754.95	129.80	127.96	86.24	1,190.66	-4,944.33	2,756.33	2,500.66	255.67	10.781				
12,600.00	7,935.93	12,321.21	7,754.95	132.40	130.56	86.24	1,191.10	-5,044.33	2,756.34	2,495.44	260.90	10.565				
12,700.00	7,935.92	12,421.21	7,754.95	135.00	133.17	86.24	1,191.54	-5,144.33	2,756.34	2,490.21	266.13	10.357				
12,800.00	7,935.92	12,521.21	7,754.95	137.60	135.79	86.24	1,191.98	-5,244.33	2,756.35	2,484.98	271.37	10.157				
12,900.00	7,935.92	12,621.21	7,754.95	140.20	138.40	86.24	1,192.42	-5,344.33	2,756.35	2,479.74	276.61	9.965				
13,000.00	7,935.92	12,721.21	7,754.95	142.81	141.02	86.24	1,192.86	-5,444.33	2,756.36	2,474.49	281.86	9.779				
13,100.00	7,935.92	12,821.21	7,754.95	145.43	143.64	86.24	1,193.30	-5,544.33	2,756.36	2,469.25	287.11	9.600				
13,200.00	7,935.91	12,921.21	7,754.94	148.04	146.27	86.24	1,193.74	-5,644.33	2,756.36	2,463.99	292.37	9.428				
13,300.00	7,935.91	13,021.21	7,754.94	150.66	148.90	86.24	1,194.18	-5,744.33	2,756.37	2,458.74	297.63	9.261				
13,400.00	7,935.91	13,121.21	7,754.94	153.28	151.52	86.24	1,194.61	-5,844.32	2,756.37	2,453.48	302.90	9.100				
13,500.00	7,935.91	13,221.21	7,754.94	155.90	154.16	86.24	1,195.05	-5,944.32	2,756.38	2,448.21	308.17	8.944				
13,600.00	7,935.91	13,321.21	7,754.94	158.53	156.79	86.24	1,195.49	-6,044.32	2,756.38	2,442.94	313.44	8.794				
13,700.00	7,935.91	13,421.21	7,754.94	161.16	159.42	86.24	1,195.93	-6,144.32	2,756.39	2,437.67	318.71	8.648				
13,800.00	7,935.90	13,521.21	7,754.94	163.79	162.06	86.24	1,196.37	-6,244.32	2,756.39	2,432.40	323.99	8.508				
13,900.00	7,935.90	13,621.21	7,754.94	166.42	164.70	86.24	1,196.81	-6,344.32	2,756.39	2,427.12	329.28	8.371				

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 5-6-10
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 5-6-10	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	7,935.90	13,721.21	7,754.93	169.05	167.34	86.24	1,197.25	-6,444.32	2,756.40	2,421.84	334.56	8.239		
14,100.00	7,935.90	13,821.21	7,754.93	171.69	169.98	86.24	1,197.69	-6,544.32	2,756.40	2,416.55	339.85	8.111		
14,200.00	7,935.90	13,921.21	7,754.93	174.33	172.62	86.24	1,198.13	-6,644.32	2,756.41	2,411.27	345.14	7.986		
14,300.00	7,935.89	14,021.21	7,754.93	176.97	175.27	86.24	1,198.57	-6,744.32	2,756.41	2,405.98	350.43	7.866		
14,400.00	7,935.89	14,121.21	7,754.93	179.61	177.91	86.24	1,199.01	-6,844.32	2,756.42	2,400.69	355.73	7.749		
14,500.00	7,935.89	14,221.21	7,754.93	182.25	180.56	86.24	1,199.45	-6,944.31	2,756.42	2,395.40	361.02	7.635		
14,600.00	7,935.89	14,321.21	7,754.93	184.90	183.21	86.24	1,199.89	-7,044.31	2,756.42	2,390.10	366.32	7.525		
14,700.00	7,935.89	14,421.21	7,754.93	187.54	185.86	86.24	1,200.33	-7,144.31	2,756.43	2,384.80	371.63	7.417		
14,800.00	7,935.89	14,521.21	7,754.92	190.19	188.51	86.24	1,200.77	-7,244.31	2,756.43	2,379.50	376.93	7.313		
14,900.00	7,935.88	14,621.21	7,754.92	192.84	191.16	86.24	1,201.21	-7,344.31	2,756.44	2,374.20	382.24	7.211		
15,000.00	7,935.88	14,721.21	7,754.92	195.49	193.82	86.24	1,201.65	-7,444.31	2,756.44	2,368.90	387.54	7.113		
15,100.00	7,935.88	14,821.21	7,754.92	198.14	196.47	86.24	1,202.09	-7,544.31	2,756.45	2,363.59	392.85	7.016		
15,200.00	7,935.88	14,921.21	7,754.92	200.79	199.12	86.24	1,202.53	-7,644.31	2,756.45	2,358.29	398.16	6.923		
15,300.00	7,935.88	15,021.21	7,754.92	203.44	201.78	86.24	1,202.97	-7,744.31	2,756.45	2,352.98	403.48	6.832		
15,400.00	7,935.87	15,121.21	7,754.92	206.10	204.44	86.24	1,203.41	-7,844.31	2,756.46	2,347.67	408.79	6.743		
15,500.00	7,935.87	15,221.21	7,754.92	208.75	207.10	86.24	1,203.84	-7,944.30	2,756.46	2,342.35	414.11	6.656		
15,600.00	7,935.87	15,321.21	7,754.92	211.41	209.75	86.24	1,204.28	-8,044.30	2,756.47	2,337.04	419.42	6.572		
15,700.00	7,935.87	15,421.21	7,754.91	214.07	212.41	86.24	1,204.72	-8,144.30	2,756.47	2,331.73	424.74	6.490		
15,800.00	7,935.87	15,521.21	7,754.91	216.72	215.07	86.24	1,205.16	-8,244.30	2,756.48	2,326.41	430.06	6.409		
15,900.00	7,935.87	15,621.21	7,754.91	219.38	217.73	86.24	1,205.60	-8,344.30	2,756.48	2,321.09	435.39	6.331		
16,000.00	7,935.86	15,721.21	7,754.91	222.04	220.40	86.24	1,206.04	-8,444.30	2,756.48	2,315.78	440.71	6.255		
16,100.00	7,935.86	15,821.21	7,754.91	224.70	223.06	86.24	1,206.48	-8,544.30	2,756.49	2,310.46	446.03	6.180		
16,200.00	7,935.86	15,921.21	7,754.91	227.37	225.72	86.24	1,206.92	-8,644.30	2,756.49	2,305.14	451.36	6.107		
16,300.00	7,935.86	16,021.21	7,754.91	230.03	228.38	86.24	1,207.36	-8,744.30	2,756.50	2,299.81	456.68	6.036		
16,400.00	7,935.86	16,121.21	7,754.91	232.69	231.05	86.24	1,207.80	-8,844.30	2,756.50	2,294.49	462.01	5.966		
16,500.00	7,935.85	16,221.21	7,754.90	235.35	233.71	86.24	1,208.24	-8,944.29	2,756.51	2,289.17	467.34	5.898		
16,600.00	7,935.85	16,321.21	7,754.90	238.02	236.38	86.24	1,208.68	-9,044.29	2,756.51	2,283.84	472.67	5.832		
16,700.00	7,935.85	16,421.21	7,754.90	240.68	239.04	86.24	1,209.12	-9,144.29	2,756.51	2,278.52	478.00	5.767		
16,800.00	7,935.85	16,521.21	7,754.90	243.35	241.71	86.24	1,209.56	-9,244.29	2,756.52	2,273.19	483.33	5.703		
16,900.00	7,935.85	16,621.21	7,754.90	246.01	244.38	86.24	1,210.00	-9,344.29	2,756.52	2,267.86	488.66	5.641		
17,000.00	7,935.85	16,721.21	7,754.90	248.68	247.04	86.24	1,210.44	-9,444.29	2,756.53	2,262.53	493.99	5.580		
17,100.00	7,935.84	16,821.21	7,754.90	251.35	249.71	86.24	1,210.88	-9,544.29	2,756.53	2,257.20	499.33	5.520		
17,200.00	7,935.84	16,921.21	7,754.90	254.02	252.38	86.24	1,211.32	-9,644.29	2,756.53	2,251.87	504.66	5.462		
17,300.00	7,935.84	17,021.21	7,754.90	256.69	255.05	86.24	1,211.76	-9,744.29	2,756.54	2,246.54	510.00	5.405		
17,400.00	7,935.84	17,121.21	7,754.89	259.35	257.72	86.24	1,212.20	-9,844.29	2,756.54	2,241.21	515.34	5.349		
17,500.00	7,935.84	17,221.21	7,754.89	262.02	260.39	86.24	1,212.64	-9,944.29	2,756.55	2,235.88	520.67	5.294		
17,600.00	7,935.83	17,321.21	7,754.89	264.69	263.06	86.24	1,213.07	-10,044.28	2,756.55	2,230.54	526.01	5.240		
17,700.00	7,935.83	17,421.21	7,754.89	267.36	265.73	86.24	1,213.51	-10,144.28	2,756.56	2,225.21	531.35	5.188		
17,800.00	7,935.83	17,521.21	7,754.89	270.03	268.40	86.24	1,213.95	-10,244.28	2,756.56	2,219.87	536.69	5.136		
17,900.00	7,935.83	17,621.21	7,754.89	272.71	271.07	86.24	1,214.39	-10,344.28	2,756.56	2,214.54	542.03	5.086		
18,000.00	7,935.83	17,721.21	7,754.89	275.38	273.74	86.24	1,214.83	-10,444.28	2,756.57	2,209.20	547.37	5.036		
18,100.00	7,935.83	17,830.21	7,754.93	278.05	276.65	86.24	1,215.22	-10,553.28	2,756.49	2,203.53	552.96	4.985		
18,153.00	7,936.00	17,883.20	7,755.01	279.47	278.07	86.23	1,215.28	-10,606.27	2,756.18	2,200.39	555.79	4.959 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-126.56	126.56					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-126.56	126.56	126.29	0.27	470.746		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-126.56	126.56	125.58	0.99	128.385		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-126.56	126.56	124.86	1.70	74.328		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-126.56	126.56	124.14	2.42	52.305		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-126.56	126.56	123.43	3.14	40.350		
600.00	599.98	600.02	599.98	1.91	1.93	78.30	0.00	-126.56	126.20	122.36	3.84	32.893		
700.00	699.84	700.16	699.84	2.25	2.29	80.66	0.00	-126.56	125.24	120.71	4.53	27.647		
800.00	799.45	799.45	799.45	2.59	2.64	84.64	0.00	-126.56	124.12	118.89	5.23	23.711		
843.79	842.96	842.18	842.18	2.75	2.79	86.99	0.30	-126.65	123.89	118.34	5.55	22.330 CC, ES		
900.00	898.70	896.67	896.65	2.96	2.99	90.77	1.57	-127.01	124.38	118.43	5.95	20.906		
1,000.00	997.47	992.28	992.14	3.35	3.33	99.24	6.21	-128.32	128.61	121.94	6.68	19.258		
1,100.00	1,095.62	1,085.70	1,085.23	3.77	3.67	108.89	13.70	-130.44	139.20	131.78	7.41	18.776		
1,200.00	1,193.06	1,176.55	1,175.47	4.22	4.00	118.32	23.77	-133.30	157.90	149.77	8.13	19.411		
1,244.60	1,236.24	1,218.09	1,216.66	4.43	4.16	122.30	28.97	-134.77	168.77	160.31	8.46	19.939		
1,300.00	1,289.78	1,269.55	1,267.68	4.71	4.35	126.92	35.41	-136.59	183.63	174.76	8.87	20.709		
1,400.00	1,386.43	1,362.43	1,359.77	5.21	4.71	133.63	47.03	-139.88	212.85	203.27	9.58	22.217		
1,500.00	1,483.07	1,455.31	1,451.86	5.73	5.07	138.75	58.65	-143.17	244.20	233.91	10.29	23.736		
1,600.00	1,579.71	1,548.19	1,543.95	6.25	5.43	142.72	70.27	-146.46	276.97	265.98	10.99	25.195		
1,700.00	1,676.35	1,641.07	1,636.04	6.78	5.80	145.86	81.88	-149.76	310.70	299.01	11.70	26.562		
1,800.00	1,772.99	1,733.95	1,728.13	7.32	6.16	148.39	93.50	-153.05	345.12	332.72	12.40	27.828		
1,900.00	1,869.63	1,826.83	1,820.22	7.86	6.53	150.47	105.12	-156.34	380.04	366.93	13.11	28.992		
2,000.00	1,966.27	1,919.70	1,912.31	8.41	6.91	152.21	116.74	-159.63	415.32	401.51	13.82	30.060		
2,100.00	2,062.91	2,012.58	2,004.40	8.96	7.28	153.67	128.36	-162.92	450.90	436.37	14.53	31.040		
2,200.00	2,159.55	2,105.46	2,096.49	9.51	7.65	154.92	139.98	-166.21	486.69	471.45	15.24	31.941		
2,300.00	2,256.20	2,201.66	2,188.58	10.06	8.04	156.01	151.60	-169.50	522.66	506.70	15.96	32.743		
2,400.00	2,352.84	2,308.78	2,280.67	10.61	8.48	156.95	163.21	-172.79	558.78	542.05	16.73	33.402		
2,500.00	2,449.48	2,384.10	2,372.76	11.17	8.78	157.78	174.83	-176.08	595.01	577.63	17.38	34.236		
2,600.00	2,546.12	2,476.98	2,464.85	11.72	9.16	158.51	186.45	-179.37	631.33	613.24	18.10	34.887		
2,700.00	2,642.76	2,569.85	2,556.94	12.28	9.54	159.17	198.07	-182.66	667.74	648.93	18.81	35.492		
2,800.00	2,739.40	2,662.73	2,649.04	12.84	9.92	159.75	209.69	-185.96	704.22	684.68	19.53	36.053		
2,900.00	2,836.04	2,755.61	2,741.13	13.40	10.30	160.28	221.31	-189.25	740.75	720.50	20.25	36.576		
3,000.00	2,932.68	2,848.49	2,833.22	13.96	10.68	160.76	232.93	-192.54	777.33	756.36	20.97	37.064		
3,100.00	3,029.33	2,941.37	2,925.31	14.52	11.06	161.20	244.55	-195.83	813.96	792.27	21.69	37.521		
3,200.00	3,125.97	3,034.25	3,017.40	15.08	11.44	161.60	256.16	-199.12	850.63	828.21	22.42	37.948		
3,300.00	3,222.61	3,127.13	3,109.49	15.64	11.82	161.97	267.78	-202.41	887.32	864.18	23.14	38.349		
3,400.00	3,319.25	3,220.01	3,201.58	16.21	12.20	162.31	279.40	-205.70	924.05	900.19	23.86	38.726		
3,500.00	3,415.89	3,312.88	3,293.67	16.77	12.58	162.62	291.02	-208.99	960.80	936.22	24.58	39.081		
3,600.00	3,512.53	3,405.76	3,385.76	17.33	12.96	162.91	302.64	-212.28	997.58	972.27	25.31	39.416		
3,700.00	3,609.17	3,501.36	3,477.85	17.89	13.35	163.18	314.26	-215.57	1,034.37	1,008.33	26.04	39.717		
3,800.00	3,705.81	3,608.48	3,569.94	18.46	13.79	163.43	325.88	-218.86	1,071.19	1,044.37	26.82	39.938		
3,900.00	3,802.46	3,684.40	3,662.03	19.02	14.11	163.66	337.50	-222.16	1,108.02	1,080.53	27.48	40.315		
4,000.00	3,899.10	3,777.28	3,754.12	19.59	14.49	163.88	349.11	-225.45	1,144.86	1,116.65	28.21	40.584		
4,100.00	3,995.74	3,870.16	3,846.21	20.15	14.87	164.08	360.73	-228.74	1,181.72	1,152.79	28.94	40.839		
4,200.00	4,092.38	3,963.03	3,938.30	20.71	15.25	164.27	372.35	-232.03	1,218.59	1,188.93	29.66	41.081		
4,300.00	4,189.02	4,055.91	4,030.39	21.28	15.64	164.46	383.97	-235.32	1,255.48	1,225.09	30.39	41.312		
4,400.00	4,285.66	4,148.79	4,122.48	21.84	16.02	164.63	395.59	-238.61	1,292.37	1,261.25	31.12	41.532		
4,500.00	4,382.30	4,241.67	4,214.57	22.41	16.40	164.79	407.21	-241.90	1,329.27	1,297.43	31.85	41.742		
4,600.00	4,478.94	4,334.55	4,306.66	22.97	16.79	164.94	418.83	-245.19	1,366.18	1,333.61	32.57	41.942		
4,700.00	4,575.59	4,427.43	4,398.75	23.54	17.17	165.09	430.44	-248.48	1,403.10	1,369.80	33.30	42.133		
4,800.00	4,672.23	4,520.31	4,490.84	24.10	17.55	165.22	442.06	-251.77	1,440.03	1,406.00	34.03	42.316		
4,900.00	4,768.87	4,613.18	4,582.93	24.67	17.94	165.35	453.68	-255.07	1,476.96	1,442.20	34.76	42.492		

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 5-6-10
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 5-6-10	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	4,865.51	4,706.06	4,675.02	25.24	18.32	165.48	465.30	-258.36	1,513.90	1,478.41	35.49	42.659		
5,100.00	4,962.15	4,801.06	4,767.11	25.80	18.71	165.60	476.92	-261.65	1,550.84	1,514.62	36.23	42.811		
5,200.00	5,058.79	4,891.82	4,859.20	26.37	19.09	165.71	488.54	-264.94	1,587.79	1,550.85	36.95	42.975		
5,300.00	5,155.43	4,984.70	4,951.29	26.93	19.47	165.82	500.16	-268.23	1,624.75	1,587.07	37.68	43.123		
5,400.00	5,252.07	5,077.58	5,043.38	27.50	19.85	165.92	511.78	-271.52	1,661.71	1,623.30	38.41	43.265		
5,500.00	5,348.72	5,170.46	5,135.47	28.07	20.24	166.02	523.39	-274.81	1,698.67	1,659.54	39.14	43.402		
5,600.00	5,445.36	5,263.34	5,227.56	28.63	20.62	166.11	535.01	-278.10	1,735.64	1,695.77	39.87	43.534		
5,700.00	5,542.00	5,356.21	5,319.65	29.20	21.00	166.20	546.63	-281.39	1,772.61	1,732.02	40.60	43.661		
5,800.00	5,638.64	5,449.09	5,411.74	29.76	21.39	166.29	558.25	-284.68	1,809.59	1,768.26	41.33	43.783		
5,900.00	5,735.28	5,541.97	5,503.83	30.33	21.77	166.37	569.87	-287.97	1,846.57	1,804.51	42.06	43.901		
6,000.00	5,831.92	5,634.85	5,595.92	30.90	22.16	166.45	581.49	-291.27	1,883.55	1,840.76	42.79	44.015		
6,100.00	5,928.56	5,727.73	5,688.01	31.46	22.54	166.53	593.11	-294.56	1,920.54	1,877.01	43.53	44.124		
6,200.00	6,025.20	5,820.61	5,780.10	32.03	22.92	166.60	604.73	-297.85	1,957.53	1,913.27	44.26	44.230		
6,300.00	6,121.85	5,913.49	5,872.20	32.60	23.31	166.67	616.34	-301.14	1,994.52	1,949.53	44.99	44.333		
6,400.00	6,218.49	6,006.36	5,964.29	33.16	23.69	166.74	627.96	-304.43	2,031.51	1,985.79	45.72	44.431		
6,500.00	6,315.13	6,100.76	6,056.38	33.73	24.08	166.81	639.58	-307.72	2,068.51	2,022.05	46.46	44.522		
6,600.00	6,411.77	6,207.88	6,148.47	34.30	24.53	166.87	651.20	-311.01	2,105.51	2,058.26	47.25	44.564		
6,700.00	6,508.41	6,285.00	6,240.56	34.86	24.84	166.93	662.82	-314.30	2,142.51	2,094.59	47.92	44.709		
6,791.42	6,596.76	6,369.91	6,324.75	35.38	25.20	166.99	673.44	-317.31	2,176.34	2,127.75	48.59	44.788		
6,800.00	6,605.05	6,377.88	6,332.65	35.43	25.23	167.01	674.44	-317.59	2,179.50	2,130.85	48.65	44.795		
6,900.00	6,702.20	6,471.49	6,425.46	35.97	25.62	167.22	686.15	-320.91	2,214.64	2,165.26	49.39	44.843		
7,000.00	6,800.11	6,566.24	6,519.41	36.47	26.01	167.39	698.00	-324.27	2,246.58	2,196.47	50.11	44.829		
7,100.00	6,898.67	6,662.03	6,614.38	36.93	26.40	167.52	709.98	-327.66	2,275.28	2,224.44	50.84	44.754		
7,200.00	6,997.75	6,758.74	6,710.27	37.34	26.80	167.62	722.08	-331.09	2,300.69	2,249.13	51.56	44.622		
7,300.00	7,097.25	6,856.25	6,806.96	37.71	27.21	167.68	734.28	-334.54	2,322.79	2,270.52	52.27	44.435		
7,400.00	7,197.04	6,954.44	6,904.32	38.04	27.61	167.70	746.56	-338.02	2,341.55	2,288.57	52.98	44.197		
7,500.00	7,296.99	7,121.39	7,160.83	38.32	28.63	167.62	772.07	-345.25	2,355.54	2,300.81	54.73	43.041		
7,536.02	7,333.00	7,384.67	7,333.00	38.41	29.21	0.07	777.05	-346.66	2,356.80	2,301.12	55.68	42.325		
7,566.02	7,363.00	7,414.67	7,363.00	38.47	29.31	0.07	777.05	-346.66	2,356.80	2,300.93	55.87	42.182		
7,600.00	7,396.96	7,448.22	7,396.53	38.55	29.41	89.82	777.06	-347.64	2,356.80	2,300.71	56.09	42.017		
7,650.00	7,446.68	7,497.58	7,445.62	38.68	29.57	89.82	777.08	-352.65	2,356.80	2,300.37	56.43	41.764		
7,700.00	7,495.77	7,546.95	7,494.11	38.82	29.74	89.83	777.12	-361.86	2,356.80	2,300.01	56.79	41.500		
7,750.00	7,543.84	7,596.33	7,541.64	38.97	29.92	89.83	777.18	-375.22	2,356.80	2,299.63	57.17	41.224		
7,800.00	7,590.54	7,645.74	7,587.86	39.12	30.10	89.84	777.25	-392.62	2,356.80	2,299.23	57.57	40.938		
7,850.00	7,635.50	7,695.16	7,632.42	39.27	30.28	89.84	777.35	-413.95	2,356.80	2,298.81	57.99	40.638		
7,900.00	7,678.39	7,744.61	7,675.01	39.44	30.47	89.85	777.46	-439.05	2,356.80	2,298.36	58.45	40.324		
7,950.00	7,718.88	7,794.08	7,715.29	39.60	30.67	89.86	777.58	-467.75	2,356.80	2,297.87	58.94	39.990		
8,000.00	7,756.67	7,843.60	7,752.98	39.78	30.88	89.87	777.72	-499.84	2,356.80	2,297.34	59.47	39.632		
8,050.00	7,791.45	7,893.14	7,787.78	39.96	31.11	89.88	777.88	-535.09	2,356.80	2,296.75	60.05	39.247		
8,074.42	7,807.27	7,917.36	7,803.65	40.05	31.23	89.89	777.96	-553.38	2,356.80	2,296.44	60.36	39.043		
8,100.00	7,822.98	7,942.73	7,819.43	40.15	31.36	89.89	778.04	-573.24	2,356.80	2,296.10	60.70	38.829		
8,150.00	7,851.01	7,992.37	7,847.69	40.35	31.63	89.91	778.22	-614.03	2,356.80	2,295.39	61.42	38.374		
8,200.00	7,875.32	8,042.05	7,872.33	40.57	31.94	89.92	778.41	-657.15	2,356.80	2,294.59	62.21	37.882		
8,250.00	7,895.74	8,091.78	7,893.17	40.81	32.29	89.93	778.61	-702.29	2,356.80	2,293.70	63.10	37.352		
8,300.00	7,912.10	8,141.56	7,910.03	41.06	32.68	89.95	778.81	-749.11	2,356.80	2,292.73	64.07	36.786		
8,350.00	7,924.28	8,191.40	7,922.78	41.34	33.12	89.96	779.02	-797.27	2,356.80	2,291.68	65.13	36.189		
8,400.00	7,932.19	8,241.28	7,931.30	41.65	33.61	89.98	779.24	-846.41	2,356.80	2,290.54	66.26	35.568		
8,450.00	7,935.77	8,291.23	7,935.52	41.99	34.14	89.99	779.46	-896.16	2,356.81	2,289.34	67.47	34.931		
8,466.09	7,936.00	8,307.32	7,935.95	42.10	34.32	90.00	779.53	-912.24	2,356.81	2,288.94	67.87	34.726		
8,500.00	7,936.00	8,341.22	7,936.00	42.35	34.72	90.00	779.68	-946.14	2,356.81	2,288.06	68.75	34.280		
8,600.00	7,936.00	8,441.22	7,936.00	43.20	36.00	90.00	780.11	-1,046.14	2,356.81	2,285.27	71.54	32.946		
8,700.00	7,936.00	8,541.22	7,936.00	44.20	37.44	90.00	780.55	-1,146.14	2,356.81	2,282.21	74.60	31.593		

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 5-6-10
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 5-6-10	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 5-6-4 - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth	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	7,935.99	8,641.22	7,936.00	45.35	39.02	90.00	780.99	-1,246.14	2,356.81	2,278.90	77.91	30.249				
8,900.00	7,935.99	8,741.22	7,936.00	46.65	40.71	90.00	781.43	-1,346.14	2,356.82	2,275.37	81.45	28.935				
9,000.00	7,935.99	8,841.22	7,936.00	48.10	42.52	90.00	781.86	-1,446.14	2,356.82	2,271.64	85.18	27.668				
9,100.00	7,935.99	8,941.22	7,936.00	49.67	44.42	90.00	782.30	-1,546.14	2,356.82	2,267.74	89.08	26.457				
9,200.00	7,935.99	9,041.22	7,936.00	51.37	46.40	90.00	782.74	-1,646.14	2,356.83	2,263.70	93.13	25.307				
9,300.00	7,935.99	9,141.22	7,936.00	53.16	48.45	90.00	783.18	-1,746.14	2,356.83	2,259.52	97.31	24.221				
9,400.00	7,935.98	9,241.22	7,936.00	55.05	50.56	90.00	783.62	-1,846.14	2,356.83	2,255.23	101.60	23.198				
9,500.00	7,935.98	9,341.22	7,936.00	57.02	52.72	90.00	784.05	-1,946.13	2,356.83	2,250.85	105.99	22.237				
9,600.00	7,935.98	9,441.22	7,935.99	59.06	54.93	90.00	784.49	-2,046.13	2,356.84	2,246.37	110.47	21.335				
9,700.00	7,935.98	9,541.22	7,935.99	61.16	57.19	90.00	784.93	-2,146.13	2,356.84	2,241.82	115.02	20.490				
9,800.00	7,935.98	9,641.22	7,935.99	63.31	59.48	90.00	785.37	-2,246.13	2,356.84	2,237.19	119.65	19.698				
9,900.00	7,935.97	9,741.22	7,935.99	65.50	61.80	90.00	785.80	-2,346.13	2,356.84	2,232.51	124.33	18.956				
10,000.00	7,935.97	9,841.22	7,935.99	67.74	64.15	90.00	786.24	-2,446.13	2,356.85	2,227.77	129.07	18.260				
10,100.00	7,935.97	9,941.22	7,935.99	70.02	66.53	90.00	786.68	-2,546.13	2,356.85	2,222.99	133.86	17.606				
10,200.00	7,935.97	10,041.22	7,935.99	72.32	68.93	90.00	787.12	-2,646.13	2,356.85	2,218.16	138.70	16.993				
10,300.00	7,935.97	10,141.22	7,935.99	74.66	71.36	90.00	787.56	-2,746.13	2,356.85	2,213.29	143.57	16.416				
10,400.00	7,935.97	10,241.22	7,935.99	77.02	73.80	90.00	787.99	-2,846.13	2,356.86	2,208.38	148.47	15.874				
10,500.00	7,935.96	10,341.22	7,935.99	79.41	76.25	90.00	788.43	-2,946.13	2,356.86	2,203.44	153.41	15.363				
10,600.00	7,935.96	10,441.22	7,935.99	81.81	78.73	90.00	788.87	-3,046.12	2,356.86	2,198.48	158.38	14.881				
10,700.00	7,935.96	10,541.22	7,935.99	84.24	81.21	90.00	789.31	-3,146.12	2,356.86	2,193.49	163.38	14.426				
10,800.00	7,935.96	10,641.22	7,935.99	86.68	83.71	90.00	789.74	-3,246.12	2,356.87	2,188.47	168.39	13.996				
10,900.00	7,935.96	10,741.22	7,935.99	89.14	86.22	90.00	790.18	-3,346.12	2,356.87	2,183.43	173.43	13.589				
11,000.00	7,935.95	10,841.22	7,935.99	91.61	88.75	90.00	790.62	-3,446.12	2,356.87	2,178.38	178.49	13.204				
11,100.00	7,935.95	10,941.22	7,935.99	94.10	91.28	90.00	791.06	-3,546.12	2,356.87	2,173.30	183.57	12.839				
11,200.00	7,935.95	11,041.22	7,935.99	96.59	93.82	90.00	791.50	-3,646.12	2,356.88	2,168.21	188.67	12.492				
11,300.00	7,935.95	11,141.22	7,935.99	99.10	96.37	90.00	791.93	-3,746.12	2,356.88	2,163.10	193.78	12.163				
11,400.00	7,935.95	11,241.22	7,935.99	101.62	98.92	90.00	792.37	-3,846.12	2,356.88	2,157.98	198.90	11.849				
11,500.00	7,935.95	11,341.22	7,935.99	104.15	101.49	90.00	792.81	-3,946.12	2,356.88	2,152.84	204.04	11.551				
11,600.00	7,935.94	11,441.22	7,935.98	106.68	104.06	90.00	793.25	-4,046.11	2,356.89	2,147.69	209.19	11.267				
11,700.00	7,935.94	11,541.22	7,935.98	109.23	106.63	90.00	793.68	-4,146.11	2,356.89	2,142.53	214.36	10.995				
11,800.00	7,935.94	11,641.22	7,935.98	111.78	109.21	90.00	794.12	-4,246.11	2,356.89	2,137.36	219.53	10.736				
11,900.00	7,935.94	11,741.22	7,935.98	114.33	111.80	90.00	794.56	-4,346.11	2,356.89	2,132.18	224.71	10.489				
12,000.00	7,935.94	11,841.22	7,935.98	116.90	114.39	90.00	795.00	-4,446.11	2,356.90	2,126.99	229.90	10.252				
12,100.00	7,935.93	11,941.22	7,935.98	119.47	116.98	90.00	795.44	-4,546.11	2,356.90	2,121.80	235.10	10.025				
12,200.00	7,935.93	12,041.22	7,935.98	122.04	119.58	90.00	795.87	-4,646.11	2,356.90	2,116.59	240.31	9.808				
12,300.00	7,935.93	12,141.22	7,935.98	124.63	122.19	90.00	796.31	-4,746.11	2,356.90	2,111.38	245.53	9.599				
12,400.00	7,935.93	12,241.22	7,935.98	127.21	124.79	90.00	796.75	-4,846.11	2,356.91	2,106.16	250.75	9.399				
12,500.00	7,935.93	12,341.22	7,935.98	129.80	127.40	90.00	797.19	-4,946.11	2,356.91	2,100.93	255.98	9.207				
12,600.00	7,935.93	12,441.22	7,935.98	132.40	130.02	90.00	797.62	-5,046.11	2,356.91	2,095.69	261.22	9.023				
12,700.00	7,935.92	12,541.22	7,935.98	135.00	132.64	90.00	798.06	-5,146.10	2,356.92	2,090.46	266.46	8.845				
12,800.00	7,935.92	12,641.22	7,935.98	137.60	135.26	90.00	798.50	-5,246.10	2,356.92	2,085.21	271.71	8.674				
12,900.00	7,935.92	12,741.22	7,935.98	140.20	137.88	90.00	798.94	-5,346.10	2,356.92	2,079.96	276.96	8.510				
13,000.00	7,935.92	12,841.22	7,935.98	142.81	140.50	90.00	799.38	-5,446.10	2,356.92	2,074.71	282.22	8.351				
13,100.00	7,935.92	12,941.22	7,935.98	145.43	143.13	90.00	799.81	-5,546.10	2,356.93	2,069.45	287.48	8.199				
13,200.00	7,935.91	13,041.22	7,935.98	148.04	145.76	90.00	800.25	-5,646.10	2,356.93	2,064.18	292.75	8.051				
13,300.00	7,935.91	13,141.22	7,935.98	150.66	148.39	90.00	800.69	-5,746.10	2,356.93	2,058.91	298.02	7.909				
13,400.00	7,935.91	13,241.22	7,935.98	153.28	151.03	90.00	801.13	-5,846.10	2,356.93	2,053.64	303.29	7.771				
13,500.00	7,935.91	13,341.22	7,935.98	155.90	153.66	90.00	801.56	-5,946.10	2,356.94	2,048.37	308.57	7.638				
13,600.00	7,935.91	13,441.22	7,935.98	158.53	156.30	90.00	802.00	-6,046.10	2,356.94	2,043.09	313.85	7.510				
13,700.00	7,935.91	13,541.22	7,935.97	161.16	158.94	90.00	802.44	-6,146.09	2,356.94	2,037.80	319.14	7.385				
13,800.00	7,935.90	13,641.22	7,935.97	163.79	161.58	90.00	802.88	-6,246.09	2,356.94	2,032.52	324.43	7.265				
13,900.00	7,935.90	13,741.22	7,935.97	166.42	164.22	90.00	803.32	-6,346.09	2,356.95	2,027.23	329.72	7.148				

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 5-6-10
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 5-6-10	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	7,935.90	13,841.22	7,935.97	169.05	166.87	90.00	803.75	-6,446.09	2,356.95	2,021.94	335.01	7.035		
14,100.00	7,935.90	13,941.22	7,935.97	171.69	169.51	90.00	804.19	-6,546.09	2,356.95	2,016.64	340.31	6.926		
14,200.00	7,935.90	14,041.22	7,935.97	174.33	172.16	90.00	804.63	-6,646.09	2,356.95	2,011.35	345.61	6.820		
14,300.00	7,935.89	14,141.22	7,935.97	176.97	174.81	90.00	805.07	-6,746.09	2,356.96	2,006.05	350.91	6.717		
14,400.00	7,935.89	14,241.22	7,935.97	179.61	177.46	90.00	805.50	-6,846.09	2,356.96	2,000.74	356.22	6.617		
14,500.00	7,935.89	14,341.22	7,935.97	182.25	180.11	90.00	805.94	-6,946.09	2,356.96	1,995.44	361.52	6.520		
14,600.00	7,935.89	14,441.22	7,935.97	184.90	182.76	90.00	806.38	-7,046.09	2,356.96	1,990.13	366.83	6.425		
14,700.00	7,935.89	14,541.22	7,935.97	187.54	185.41	90.00	806.82	-7,146.09	2,356.97	1,984.82	372.14	6.333		
14,800.00	7,935.89	14,641.22	7,935.97	190.19	188.07	90.00	807.26	-7,246.08	2,356.97	1,979.51	377.46	6.244		
14,900.00	7,935.88	14,741.22	7,935.97	192.84	190.72	90.00	807.69	-7,346.08	2,356.97	1,974.20	382.77	6.158		
15,000.00	7,935.88	14,841.22	7,935.97	195.49	193.38	90.00	808.13	-7,446.08	2,356.97	1,968.88	388.09	6.073		
15,100.00	7,935.88	14,941.22	7,935.97	198.14	196.04	90.00	808.57	-7,546.08	2,356.98	1,963.57	393.41	5.991		
15,200.00	7,935.88	15,041.22	7,935.97	200.79	198.69	90.00	809.01	-7,646.08	2,356.98	1,958.25	398.73	5.911		
15,300.00	7,935.88	15,141.22	7,935.97	203.44	201.35	90.00	809.44	-7,746.08	2,356.98	1,952.93	404.05	5.833		
15,400.00	7,935.87	15,241.22	7,935.97	206.10	204.01	90.00	809.88	-7,846.08	2,356.98	1,947.61	409.38	5.757		
15,500.00	7,935.87	15,341.22	7,935.97	208.75	206.67	90.00	810.32	-7,946.08	2,356.99	1,942.29	414.70	5.684		
15,600.00	7,935.87	15,441.22	7,935.97	211.41	209.33	90.00	810.76	-8,046.08	2,356.99	1,936.96	420.03	5.611		
15,700.00	7,935.87	15,541.22	7,935.97	214.07	211.99	90.00	811.20	-8,146.08	2,356.99	1,931.63	425.36	5.541		
15,800.00	7,935.87	15,641.22	7,935.96	216.72	214.66	90.00	811.63	-8,246.07	2,357.00	1,926.31	430.69	5.473		
15,900.00	7,935.87	15,741.22	7,935.96	219.38	217.32	90.00	812.07	-8,346.07	2,357.00	1,920.98	436.02	5.406		
16,000.00	7,935.86	15,841.22	7,935.96	222.04	219.98	90.00	812.51	-8,446.07	2,357.00	1,915.65	441.35	5.340		
16,100.00	7,935.86	15,941.22	7,935.96	224.70	222.65	90.00	812.95	-8,546.07	2,357.00	1,910.32	446.68	5.277		
16,200.00	7,935.86	16,041.22	7,935.96	227.37	225.31	90.00	813.38	-8,646.07	2,357.01	1,904.99	452.02	5.214		
16,300.00	7,935.86	16,141.22	7,935.96	230.03	227.98	90.00	813.82	-8,746.07	2,357.01	1,899.65	457.36	5.154		
16,400.00	7,935.86	16,241.22	7,935.96	232.69	230.64	90.00	814.26	-8,846.07	2,357.01	1,894.32	462.69	5.094		
16,500.00	7,935.85	16,341.22	7,935.96	235.35	233.31	90.00	814.70	-8,946.07	2,357.01	1,888.98	468.03	5.036		
16,600.00	7,935.85	16,441.22	7,935.96	238.02	235.98	90.00	815.14	-9,046.07	2,357.02	1,883.65	473.37	4.979		
16,700.00	7,935.85	16,541.22	7,935.96	240.68	238.65	90.00	815.57	-9,146.07	2,357.02	1,878.31	478.71	4.924		
16,800.00	7,935.85	16,641.22	7,935.96	243.35	241.31	90.00	816.01	-9,246.07	2,357.02	1,872.97	484.05	4.869		
16,900.00	7,935.85	16,741.22	7,935.96	246.01	243.98	90.00	816.45	-9,346.06	2,357.02	1,867.63	489.39	4.816		
17,000.00	7,935.85	16,841.22	7,935.96	248.68	246.65	90.00	816.89	-9,446.06	2,357.03	1,862.29	494.73	4.764		
17,100.00	7,935.84	16,941.22	7,935.96	251.35	249.32	90.00	817.32	-9,546.06	2,357.03	1,856.95	500.08	4.713		
17,200.00	7,935.84	17,041.22	7,935.96	254.02	251.99	90.00	817.76	-9,646.06	2,357.03	1,851.61	505.42	4.663		
17,300.00	7,935.84	17,141.22	7,935.96	256.69	254.66	90.00	818.20	-9,746.06	2,357.03	1,846.27	510.77	4.615		
17,400.00	7,935.84	17,241.22	7,935.96	259.35	257.33	90.00	818.64	-9,846.06	2,357.04	1,840.92	516.11	4.567		
17,500.00	7,935.84	17,341.22	7,935.96	262.02	260.00	90.00	819.08	-9,946.06	2,357.04	1,835.58	521.46	4.520		
17,600.00	7,935.83	17,441.22	7,935.96	264.69	262.68	90.00	819.51	-10,046.06	2,357.04	1,830.23	526.81	4.474		
17,700.00	7,935.83	17,541.22	7,935.96	267.36	265.35	90.00	819.95	-10,146.06	2,357.04	1,824.89	532.16	4.429		
17,800.00	7,935.83	17,641.22	7,935.95	270.03	268.02	90.00	820.39	-10,246.06	2,357.05	1,819.54	537.51	4.385		
17,900.00	7,935.83	17,741.22	7,935.95	272.71	270.69	90.00	820.83	-10,346.05	2,357.05	1,814.19	542.86	4.342		
18,000.00	7,935.83	17,841.22	7,935.95	275.38	273.37	90.00	821.26	-10,446.05	2,357.05	1,808.85	548.21	4.300		
18,100.00	7,935.83	17,943.24	7,935.97	278.05	276.09	90.00	821.67	-10,548.07	2,357.02	1,803.40	553.62	4.257		
18,153.00	7,936.00	17,996.24	7,936.00	279.47	277.51	90.00	821.86	-10,601.07	2,356.82	1,800.37	556.45	4.235 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-143.44	143.44					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-143.44	143.44	143.17	0.27	533.513		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-143.44	143.44	142.45	0.99	145.504		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-143.44	143.44	141.73	1.70	84.239		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-143.44	143.44	141.02	2.42	59.279		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-143.44	143.44	140.30	3.14	45.730		
600.00	599.98	600.02	599.98	1.91	1.93	78.21	0.00	-143.44	143.07	139.23	3.84	37.292		
700.00	699.84	700.16	699.84	2.25	2.29	80.30	0.00	-143.44	142.09	137.56	4.53	31.368		
800.00	799.45	800.55	799.45	2.59	2.65	83.80	0.00	-143.44	140.88	135.64	5.24	26.893		
900.00	898.70	901.30	898.70	2.96	3.01	88.74	0.00	-143.44	140.08	134.12	5.97	23.476		
921.75	920.22	920.22	920.22	3.05	3.07	90.00	0.00	-143.44	140.05	133.93	6.12	22.884	CC	
1,000.00	997.47	997.47	997.47	3.35	3.35	95.04	0.00	-143.44	140.61	133.91	6.70	20.979	ES	
1,100.00	1,095.62	1,091.90	1,091.88	3.77	3.69	102.49	1.30	-144.13	144.81	137.35	7.45	19.431		
1,200.00	1,193.06	1,184.28	1,184.15	4.22	4.02	110.82	5.23	-146.23	155.64	147.43	8.20	18.971		
1,244.60	1,236.24	1,225.88	1,225.65	4.43	4.17	114.61	7.77	-147.59	162.90	154.36	8.54	19.070		
1,300.00	1,289.78	1,278.52	1,278.16	4.71	4.36	119.25	11.05	-149.34	173.25	164.29	8.96	19.328		
1,400.00	1,386.43	1,373.54	1,372.95	5.21	4.70	126.35	16.97	-152.51	194.44	184.73	9.71	20.020		
1,500.00	1,483.07	1,468.57	1,467.73	5.73	5.05	132.05	22.89	-155.68	218.04	207.59	10.45	20.870		
1,600.00	1,579.71	1,563.59	1,562.52	6.25	5.39	136.65	28.81	-158.84	243.34	232.16	11.17	21.776		
1,700.00	1,676.35	1,658.61	1,657.30	6.78	5.74	140.38	34.73	-162.01	269.87	257.97	11.90	22.684		
1,800.00	1,772.99	1,753.63	1,752.08	7.32	6.09	143.45	40.65	-165.18	297.30	284.68	12.62	23.565		
1,900.00	1,869.63	1,848.65	1,846.87	7.86	6.44	146.01	46.57	-168.34	325.40	312.07	13.34	24.402		
2,000.00	1,966.27	1,943.67	1,941.65	8.41	6.79	148.17	52.49	-171.51	354.02	339.97	14.05	25.190		
2,100.00	2,062.91	2,038.69	2,036.43	8.96	7.14	150.00	58.41	-174.68	383.03	368.26	14.77	25.928		
2,200.00	2,159.55	2,133.71	2,131.22	9.51	7.49	151.58	64.33	-177.84	412.36	396.87	15.49	26.616		
2,300.00	2,256.20	2,228.73	2,226.00	10.06	7.84	152.95	70.25	-181.01	441.94	425.72	16.21	27.257		
2,400.00	2,352.84	2,323.76	2,320.78	10.61	8.20	154.15	76.17	-184.18	471.72	454.78	16.94	27.854		
2,500.00	2,449.48	2,418.78	2,415.57	11.17	8.55	155.21	82.10	-187.34	501.67	484.01	17.66	28.410		
2,600.00	2,546.12	2,513.80	2,510.35	11.72	8.90	156.15	88.02	-190.51	531.76	513.37	18.38	28.929		
2,700.00	2,642.76	2,608.82	2,605.14	12.28	9.26	156.99	93.94	-193.68	561.96	542.86	19.11	29.413		
2,800.00	2,739.40	2,703.84	2,699.92	12.84	9.61	157.74	99.86	-196.84	592.26	572.43	19.83	29.866		
2,900.00	2,836.04	2,801.14	2,794.70	13.40	9.97	158.42	105.78	-200.01	622.65	602.09	20.56	30.278		
3,000.00	2,932.68	2,906.12	2,899.49	13.96	10.36	159.04	111.70	-203.18	653.11	631.79	21.33	30.623		
3,100.00	3,029.33	2,988.90	2,984.27	14.52	10.67	159.60	117.62	-206.34	683.64	661.63	22.01	31.060		
3,200.00	3,125.97	3,083.93	3,079.05	15.08	11.02	160.12	123.54	-209.51	714.22	691.48	22.74	31.411		
3,300.00	3,222.61	3,178.95	3,173.84	15.64	11.38	160.59	129.46	-212.68	744.85	721.38	23.47	31.741		
3,400.00	3,319.25	3,273.97	3,268.62	16.21	11.73	161.03	135.38	-215.84	775.52	751.32	24.20	32.052		
3,500.00	3,415.89	3,368.99	3,363.40	16.77	12.09	161.43	141.30	-219.01	806.22	781.30	24.92	32.346		
3,600.00	3,512.53	3,464.01	3,458.19	17.33	12.44	161.80	147.22	-222.18	836.97	811.31	25.65	32.624		
3,700.00	3,609.17	3,559.03	3,552.97	17.89	12.80	162.15	153.14	-225.34	867.74	841.35	26.39	32.887		
3,800.00	3,705.81	3,654.05	3,647.76	18.46	13.15	162.47	159.06	-228.51	898.53	871.42	27.12	33.137		
3,900.00	3,802.46	3,749.07	3,742.54	19.02	13.51	162.77	164.99	-231.68	929.36	901.51	27.85	33.373		
4,000.00	3,899.10	3,844.09	3,837.32	19.59	13.86	163.05	170.91	-234.84	960.20	931.62	28.58	33.598		
4,100.00	3,995.74	3,939.12	3,932.11	20.15	14.22	163.32	176.83	-238.01	991.06	961.75	29.31	33.812		
4,200.00	4,092.38	4,034.14	4,026.89	20.71	14.57	163.57	182.75	-241.18	1,021.95	991.90	30.04	34.016		
4,300.00	4,189.02	4,129.16	4,121.67	21.28	14.93	163.80	188.67	-244.34	1,052.84	1,022.07	30.78	34.211		
4,400.00	4,285.66	4,224.18	4,216.46	21.84	15.28	164.02	194.59	-247.51	1,083.76	1,052.25	31.51	34.396		
4,500.00	4,382.30	4,319.20	4,311.24	22.41	15.64	164.23	200.51	-250.68	1,114.68	1,082.44	32.24	34.573		
4,600.00	4,478.94	4,414.22	4,406.02	22.97	15.99	164.43	206.43	-253.84	1,145.62	1,112.65	32.97	34.743		
4,700.00	4,575.59	4,509.24	4,500.81	23.54	16.35	164.61	212.35	-257.01	1,176.57	1,142.87	33.71	34.905		
4,800.00	4,672.23	4,604.26	4,595.59	24.10	16.70	164.79	218.27	-260.18	1,207.54	1,173.09	34.44	35.060		
4,900.00	4,768.87	4,700.72	4,690.38	24.67	17.07	164.96	224.19	-263.34	1,238.51	1,203.33	35.18	35.203		

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 5-6-10
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 5-6-10	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	4,865.51	4,794.31	4,785.16	25.24	17.42	165.12	230.11	-266.51	1,269.49	1,233.58	35.91	35.351		
5,100.00	4,962.15	4,889.33	4,879.94	25.80	17.77	165.27	236.03	-269.68	1,300.48	1,263.83	36.65	35.488		
5,200.00	5,058.79	4,984.35	4,974.73	26.37	18.13	165.42	241.96	-272.84	1,331.48	1,294.10	37.38	35.620		
5,300.00	5,155.43	5,079.37	5,069.51	26.93	18.48	165.56	247.88	-276.01	1,362.48	1,324.37	38.12	35.746		
5,400.00	5,252.07	5,174.39	5,164.29	27.50	18.84	165.69	253.80	-279.18	1,393.50	1,354.64	38.85	35.868		
5,500.00	5,348.72	5,269.41	5,259.08	28.07	19.19	165.82	259.72	-282.34	1,424.51	1,384.93	39.59	35.985		
5,600.00	5,445.36	5,364.43	5,353.86	28.63	19.55	165.94	265.64	-285.51	1,455.54	1,415.22	40.32	36.098		
5,700.00	5,542.00	5,459.45	5,448.64	29.20	19.91	166.06	271.56	-288.68	1,486.57	1,445.51	41.06	36.207		
5,800.00	5,638.64	5,554.48	5,543.43	29.76	20.26	166.17	277.48	-291.84	1,517.60	1,475.81	41.79	36.312		
5,900.00	5,735.28	5,649.50	5,638.21	30.33	20.62	166.28	283.40	-295.01	1,548.65	1,506.12	42.53	36.413		
6,000.00	5,831.92	5,744.52	5,733.00	30.90	20.97	166.38	289.32	-298.18	1,579.69	1,536.42	43.27	36.511		
6,100.00	5,928.56	5,839.54	5,827.78	31.46	21.33	166.48	295.24	-301.34	1,610.74	1,566.74	44.00	36.605		
6,200.00	6,025.20	5,934.56	5,922.56	32.03	21.68	166.57	301.16	-304.51	1,641.79	1,597.05	44.74	36.696		
6,300.00	6,121.85	6,029.58	6,017.35	32.60	22.04	166.66	307.08	-307.68	1,672.85	1,627.38	45.48	36.785		
6,400.00	6,218.49	6,124.60	6,112.13	33.16	22.40	166.75	313.00	-310.84	1,703.91	1,657.70	46.21	36.870		
6,500.00	6,315.13	6,219.62	6,206.91	33.73	22.75	166.84	318.93	-314.01	1,734.98	1,688.03	46.95	36.953		
6,600.00	6,411.77	6,314.64	6,301.70	34.30	23.11	166.92	324.85	-317.18	1,766.05	1,718.36	47.69	37.033		
6,700.00	6,508.41	6,409.67	6,396.48	34.86	23.46	167.00	330.77	-320.34	1,797.12	1,748.69	48.43	37.110		
6,791.42	6,596.76	6,496.53	6,483.13	35.38	23.79	167.07	336.18	-323.24	1,825.53	1,776.43	49.10	37.179		
6,800.00	6,605.05	6,504.69	6,491.27	35.43	23.82	167.09	336.69	-323.51	1,828.18	1,779.02	49.16	37.185		
6,900.00	6,702.20	6,600.32	6,586.66	35.97	24.18	167.28	342.65	-326.70	1,857.36	1,807.46	49.90	37.222		
7,000.00	6,800.11	6,703.11	6,682.99	36.47	24.56	167.44	348.66	-329.91	1,883.26	1,832.61	50.65	37.179		
7,100.00	6,898.67	6,794.30	6,780.15	36.93	24.91	167.55	354.73	-333.16	1,905.86	1,854.50	51.36	37.109		
7,200.00	6,997.75	6,892.42	6,878.03	37.34	25.27	167.62	360.85	-336.43	1,925.13	1,873.05	52.08	36.966		
7,300.00	7,097.25	7,008.87	6,976.50	37.71	25.71	167.65	367.00	-339.72	1,941.04	1,888.18	52.86	36.723		
7,400.00	7,197.04	7,090.32	7,075.43	38.04	26.01	167.64	373.18	-343.03	1,953.57	1,900.08	53.50	36.518		
7,500.00	7,296.99	7,500.00	7,266.53	38.32	27.47	167.61	379.70	-346.51	1,959.47	1,903.91	55.56	35.268		
7,536.02	7,333.00	7,347.90	7,332.83	38.41	26.93	0.08	380.00	-346.92	1,959.75	1,904.56	55.19	35.506		
7,566.02	7,363.00	7,377.51	7,362.38	38.47	27.04	0.03	380.01	-348.56	1,959.76	1,904.37	55.39	35.382		
7,600.00	7,396.96	7,410.86	7,395.53	38.55	27.16	89.70	380.03	-352.22	1,959.77	1,904.15	55.62	35.236		
7,650.00	7,446.68	7,459.66	7,443.51	38.68	27.34	89.59	380.06	-361.04	1,959.80	1,903.82	55.97	35.012		
7,700.00	7,495.77	7,508.14	7,490.26	38.82	27.52	89.47	380.12	-373.82	1,959.83	1,903.48	56.35	34.782		
7,750.00	7,543.84	7,556.33	7,535.50	38.97	27.72	89.37	380.19	-390.38	1,959.87	1,903.13	56.74	34.544		
7,800.00	7,590.54	7,604.24	7,578.93	39.12	27.92	89.26	380.28	-410.56	1,959.91	1,902.77	57.14	34.299		
7,850.00	7,635.50	7,651.88	7,620.31	39.27	28.12	89.17	380.38	-434.16	1,959.96	1,902.39	57.57	34.045		
7,900.00	7,678.39	7,699.29	7,659.39	39.44	28.34	89.08	380.50	-460.97	1,960.00	1,901.98	58.02	33.780		
7,950.00	7,718.88	7,746.48	7,695.96	39.60	28.57	88.99	380.63	-490.77	1,960.05	1,901.54	58.51	33.499		
8,000.00	7,756.67	7,793.47	7,729.82	39.78	28.82	88.92	380.77	-523.33	1,960.10	1,901.06	59.04	33.200		
8,050.00	7,791.45	7,840.28	7,760.78	39.96	29.10	88.85	380.93	-558.42	1,960.15	1,900.53	59.62	32.878		
8,100.00	7,822.98	7,886.93	7,788.69	40.15	29.40	88.79	381.09	-595.79	1,960.19	1,899.94	60.26	32.532		
8,150.00	7,851.01	7,933.45	7,813.40	40.35	29.74	88.73	381.26	-635.20	1,960.23	1,899.27	60.96	32.157		
8,200.00	7,875.32	7,979.86	7,834.78	40.57	30.11	88.69	381.44	-676.37	1,960.26	1,898.53	61.74	31.752		
8,250.00	7,895.74	8,026.18	7,852.73	40.81	30.52	88.66	381.63	-719.05	1,960.29	1,897.70	62.59	31.319		
8,300.00	7,912.10	8,072.43	7,867.16	41.06	30.97	88.63	381.82	-762.98	1,960.31	1,896.79	63.53	30.859		
8,350.00	7,924.28	8,118.64	7,877.99	41.34	31.45	88.62	382.02	-807.89	1,960.32	1,895.79	64.54	30.375		
8,400.00	7,932.19	8,164.83	7,885.17	41.65	31.97	88.62	382.22	-853.51	1,960.33	1,894.70	65.62	29.872		
8,450.00	7,935.77	8,211.02	7,888.65	41.99	32.52	88.62	382.42	-899.55	1,960.32	1,893.55	66.77	29.358		
8,464.90	7,936.00	8,238.02	7,889.00	42.09	32.86	88.63	382.48	-912.79	1,960.32	1,893.03	67.29	29.130		
8,466.09	7,936.00	8,236.83	7,889.00	42.10	32.84	88.63	382.48	-913.98	1,960.32	1,893.03	67.29	29.131		
8,500.00	7,936.00	8,259.36	7,889.00	42.35	33.13	88.63	382.63	-947.89	1,960.32	1,892.29	68.03	28.816		
8,600.00	7,936.00	8,359.36	7,889.00	43.20	34.51	88.63	383.07	-1,047.89	1,960.32	1,889.50	70.83	27.678		
8,700.00	7,936.00	8,459.36	7,889.00	44.20	36.03	88.63	383.51	-1,147.89	1,960.33	1,886.43	73.90	26.527		

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 5-6-10
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 5-6-10	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	7,935.99	8,559.36	7,889.00	45.35	37.69	88.63	383.94	-1,247.89	1,960.33	1,883.10	77.23	25.384		
8,900.00	7,935.99	8,659.36	7,889.00	46.65	39.45	88.63	384.38	-1,347.89	1,960.33	1,879.55	80.78	24.269		
9,000.00	7,935.99	8,759.36	7,889.00	48.10	41.32	88.63	384.82	-1,447.89	1,960.33	1,875.81	84.52	23.194		
9,100.00	7,935.99	8,859.36	7,889.00	49.67	43.27	88.63	385.25	-1,547.89	1,960.33	1,871.90	88.43	22.168		
9,200.00	7,935.99	8,959.36	7,889.00	51.37	45.30	88.63	385.69	-1,647.89	1,960.34	1,867.84	92.49	21.194		
9,300.00	7,935.99	9,059.36	7,889.00	53.16	47.40	88.63	386.13	-1,747.88	1,960.34	1,863.66	96.68	20.276		
9,400.00	7,935.98	9,159.36	7,889.00	55.05	49.55	88.63	386.57	-1,847.88	1,960.34	1,859.35	100.99	19.412		
9,500.00	7,935.98	9,259.36	7,889.00	57.02	51.76	88.63	387.00	-1,947.88	1,960.34	1,854.95	105.39	18.601		
9,600.00	7,935.98	9,359.36	7,889.00	59.06	54.00	88.63	387.44	-2,047.88	1,960.34	1,850.47	109.88	17.841		
9,700.00	7,935.98	9,459.36	7,889.00	61.16	56.29	88.63	387.88	-2,147.88	1,960.35	1,845.90	114.44	17.129		
9,800.00	7,935.98	9,559.36	7,889.00	63.31	58.61	88.63	388.32	-2,247.88	1,960.35	1,841.27	119.08	16.463		
9,900.00	7,935.97	9,659.36	7,889.00	65.50	60.96	88.63	388.75	-2,347.88	1,960.35	1,836.58	123.77	15.838		
10,000.00	7,935.97	9,759.36	7,889.00	67.74	63.34	88.63	389.19	-2,447.88	1,960.35	1,831.83	128.52	15.253		
10,100.00	7,935.97	9,859.36	7,889.00	70.02	65.75	88.63	389.63	-2,547.88	1,960.35	1,827.03	133.32	14.704		
10,200.00	7,935.97	9,959.36	7,889.00	72.32	68.17	88.63	390.07	-2,647.88	1,960.36	1,822.20	138.16	14.189		
10,300.00	7,935.97	10,059.36	7,889.00	74.66	70.61	88.63	390.50	-2,747.87	1,960.36	1,817.32	143.04	13.705		
10,400.00	7,935.97	10,159.36	7,889.00	77.02	73.07	88.63	390.94	-2,847.87	1,960.36	1,812.41	147.95	13.250		
10,500.00	7,935.96	10,259.36	7,889.00	79.41	75.55	88.63	391.38	-2,947.87	1,960.36	1,807.46	152.90	12.821		
10,600.00	7,935.96	10,359.36	7,889.00	81.81	78.04	88.63	391.81	-3,047.87	1,960.37	1,802.49	157.87	12.417		
10,700.00	7,935.96	10,459.36	7,889.00	84.24	80.54	88.63	392.25	-3,147.87	1,960.37	1,797.49	162.87	12.036		
10,800.00	7,935.96	10,559.36	7,889.00	86.68	83.06	88.63	392.69	-3,247.87	1,960.37	1,792.47	167.90	11.676		
10,900.00	7,935.96	10,659.36	7,889.00	89.14	85.59	88.63	393.13	-3,347.87	1,960.37	1,787.43	172.94	11.336		
11,000.00	7,935.95	10,759.36	7,889.00	91.61	88.12	88.63	393.56	-3,447.87	1,960.37	1,782.37	178.01	11.013		
11,100.00	7,935.95	10,859.36	7,889.00	94.10	90.67	88.63	394.00	-3,547.87	1,960.38	1,777.29	183.09	10.707		
11,200.00	7,935.95	10,959.36	7,889.00	96.59	93.22	88.63	394.44	-3,647.87	1,960.38	1,772.19	188.19	10.417		
11,300.00	7,935.95	11,059.36	7,889.00	99.10	95.78	88.63	394.88	-3,747.86	1,960.38	1,767.08	193.30	10.141		
11,400.00	7,935.95	11,159.36	7,889.00	101.62	98.35	88.63	395.31	-3,847.86	1,960.38	1,761.95	198.43	9.879		
11,500.00	7,935.95	11,259.36	7,889.00	104.15	100.92	88.63	395.75	-3,947.86	1,960.38	1,756.81	203.57	9.630		
11,600.00	7,935.94	11,359.36	7,889.00	106.68	103.50	88.63	396.19	-4,047.86	1,960.39	1,751.66	208.73	9.392		
11,700.00	7,935.94	11,459.36	7,889.00	109.23	106.08	88.63	396.62	-4,147.86	1,960.39	1,746.49	213.89	9.165		
11,800.00	7,935.94	11,559.36	7,889.00	111.78	108.67	88.63	397.06	-4,247.86	1,960.39	1,741.32	219.07	8.949		
11,900.00	7,935.94	11,659.36	7,889.00	114.33	111.27	88.63	397.50	-4,347.86	1,960.39	1,736.14	224.25	8.742		
12,000.00	7,935.94	11,759.36	7,889.00	116.90	113.87	88.63	397.94	-4,447.86	1,960.39	1,730.95	229.45	8.544		
12,100.00	7,935.93	11,859.36	7,889.00	119.47	116.47	88.63	398.37	-4,547.86	1,960.40	1,725.74	234.65	8.355		
12,200.00	7,935.93	11,959.36	7,889.00	122.04	119.08	88.63	398.81	-4,647.86	1,960.40	1,720.54	239.86	8.173		
12,300.00	7,935.93	12,059.36	7,889.00	124.63	121.69	88.63	399.25	-4,747.86	1,960.40	1,715.32	245.08	7.999		
12,400.00	7,935.93	12,159.36	7,889.00	127.21	124.30	88.63	399.69	-4,847.85	1,960.40	1,710.10	250.31	7.832		
12,500.00	7,935.93	12,259.36	7,889.00	129.80	126.92	88.63	400.12	-4,947.85	1,960.40	1,704.87	255.54	7.672		
12,600.00	7,935.93	12,359.36	7,888.99	132.40	129.54	88.63	400.56	-5,047.85	1,960.41	1,699.63	260.77	7.518		
12,700.00	7,935.92	12,459.36	7,888.99	135.00	132.16	88.63	401.00	-5,147.85	1,960.41	1,694.39	266.02	7.369		
12,800.00	7,935.92	12,559.36	7,888.99	137.60	134.79	88.63	401.44	-5,247.85	1,960.41	1,689.14	271.27	7.227		
12,900.00	7,935.92	12,659.36	7,888.99	140.20	137.42	88.63	401.87	-5,347.85	1,960.41	1,683.89	276.52	7.090		
13,000.00	7,935.92	12,759.36	7,888.99	142.81	140.05	88.63	402.31	-5,447.85	1,960.41	1,678.63	281.78	6.957		
13,100.00	7,935.92	12,859.36	7,888.99	145.43	142.68	88.63	402.75	-5,547.85	1,960.42	1,673.37	287.04	6.830		
13,200.00	7,935.91	12,959.36	7,888.99	148.04	145.31	88.63	403.18	-5,647.85	1,960.42	1,668.11	292.31	6.707		
13,300.00	7,935.91	13,059.36	7,888.99	150.66	147.95	88.63	403.62	-5,747.85	1,960.42	1,662.84	297.58	6.588		
13,400.00	7,935.91	13,159.36	7,888.99	153.28	150.59	88.63	404.06	-5,847.84	1,960.42	1,657.56	302.86	6.473		
13,500.00	7,935.91	13,259.36	7,888.99	155.90	153.23	88.63	404.50	-5,947.84	1,960.43	1,652.29	308.14	6.362		
13,600.00	7,935.91	13,359.36	7,888.99	158.53	155.87	88.63	404.93	-6,047.84	1,960.43	1,647.01	313.42	6.255		
13,700.00	7,935.91	13,459.36	7,888.99	161.16	158.51	88.63	405.37	-6,147.84	1,960.43	1,641.72	318.71	6.151		
13,800.00	7,935.90	13,559.36	7,888.99	163.79	161.16	88.63	405.81	-6,247.84	1,960.43	1,636.44	324.00	6.051		
13,900.00	7,935.90	13,659.36	7,888.99	166.42	163.81	88.63	406.25	-6,347.84	1,960.43	1,631.14	329.29	5.954		

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 5-6-10
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 5-6-10	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	7,935.90	13,759.36	7,888.99	169.05	166.45	88.63	406.68	-6,447.84	1,960.44	1,625.85	334.58	5.859		
14,100.00	7,935.90	13,859.36	7,888.99	171.69	169.10	88.63	407.12	-6,547.84	1,960.44	1,620.56	339.88	5.768		
14,200.00	7,935.90	13,959.36	7,888.99	174.33	171.75	88.63	407.56	-6,647.84	1,960.44	1,615.26	345.18	5.679		
14,300.00	7,935.89	14,059.36	7,888.99	176.97	174.41	88.63	407.99	-6,747.84	1,960.44	1,609.96	350.49	5.594		
14,400.00	7,935.89	14,159.36	7,888.99	179.61	177.06	88.63	408.43	-6,847.84	1,960.44	1,604.65	355.79	5.510		
14,500.00	7,935.89	14,259.36	7,888.99	182.25	179.71	88.63	408.87	-6,947.83	1,960.45	1,599.35	361.10	5.429		
14,600.00	7,935.89	14,359.36	7,888.99	184.90	182.37	88.63	409.31	-7,047.83	1,960.45	1,594.04	366.41	5.350		
14,700.00	7,935.89	14,459.36	7,888.99	187.54	185.02	88.63	409.74	-7,147.83	1,960.45	1,588.73	371.72	5.274		
14,800.00	7,935.89	14,559.36	7,888.99	190.19	187.68	88.63	410.18	-7,247.83	1,960.45	1,583.42	377.03	5.200		
14,900.00	7,935.88	14,659.36	7,888.99	192.84	190.34	88.63	410.62	-7,347.83	1,960.45	1,578.11	382.35	5.127		
15,000.00	7,935.88	14,759.36	7,888.99	195.49	193.00	88.63	411.06	-7,447.83	1,960.46	1,572.79	387.67	5.057		
15,100.00	7,935.88	14,859.36	7,888.99	198.14	195.66	88.63	411.49	-7,547.83	1,960.46	1,567.47	392.99	4.989		
15,200.00	7,935.88	14,959.36	7,888.99	200.79	198.32	88.63	411.93	-7,647.83	1,960.46	1,562.15	398.31	4.922		
15,300.00	7,935.88	15,059.36	7,888.99	203.44	200.98	88.63	412.37	-7,747.83	1,960.46	1,556.83	403.63	4.857		
15,400.00	7,935.87	15,159.36	7,888.99	206.10	203.64	88.63	412.81	-7,847.83	1,960.46	1,551.51	408.95	4.794		
15,500.00	7,935.87	15,259.36	7,888.99	208.75	206.30	88.63	413.24	-7,947.82	1,960.47	1,546.19	414.28	4.732		
15,600.00	7,935.87	15,359.36	7,888.99	211.41	208.97	88.63	413.68	-8,047.82	1,960.47	1,540.86	419.61	4.672		
15,700.00	7,935.87	15,459.36	7,888.99	214.07	211.63	88.63	414.12	-8,147.82	1,960.47	1,535.54	424.93	4.614		
15,800.00	7,935.87	15,559.36	7,888.99	216.72	214.30	88.63	414.55	-8,247.82	1,960.47	1,530.21	430.26	4.556		
15,900.00	7,935.87	15,659.36	7,888.99	219.38	216.96	88.63	414.99	-8,347.82	1,960.47	1,524.88	435.60	4.501		
16,000.00	7,935.86	15,759.36	7,888.99	222.04	219.63	88.63	415.43	-8,447.82	1,960.48	1,519.55	440.93	4.446		
16,100.00	7,935.86	15,859.36	7,888.99	224.70	222.29	88.63	415.87	-8,547.82	1,960.48	1,514.22	446.26	4.393		
16,200.00	7,935.86	15,959.36	7,888.99	227.37	224.96	88.63	416.30	-8,647.82	1,960.48	1,508.89	451.60	4.341		
16,300.00	7,935.86	16,059.36	7,888.99	230.03	227.63	88.63	416.74	-8,747.82	1,960.48	1,503.55	456.93	4.291		
16,400.00	7,935.86	16,159.36	7,888.99	232.69	230.30	88.63	417.18	-8,847.82	1,960.49	1,498.22	462.27	4.241		
16,500.00	7,935.85	16,259.36	7,888.99	235.35	232.97	88.63	417.62	-8,947.82	1,960.49	1,492.88	467.61	4.193		
16,600.00	7,935.85	16,359.36	7,888.99	238.02	235.64	88.63	418.05	-9,047.81	1,960.49	1,487.54	472.94	4.145		
16,700.00	7,935.85	16,459.36	7,888.99	240.68	238.31	88.63	418.49	-9,147.81	1,960.49	1,482.21	478.28	4.099		
16,800.00	7,935.85	16,559.36	7,888.99	243.35	240.98	88.63	418.93	-9,247.81	1,960.49	1,476.87	483.63	4.054		
16,900.00	7,935.85	16,659.36	7,888.99	246.01	243.65	88.63	419.36	-9,347.81	1,960.50	1,471.53	488.97	4.009		
17,000.00	7,935.85	16,759.36	7,888.99	248.68	246.32	88.63	419.80	-9,447.81	1,960.50	1,466.19	494.31	3.966		
17,100.00	7,935.84	16,859.36	7,888.99	251.35	248.99	88.63	420.24	-9,547.81	1,960.50	1,460.85	499.65	3.924		
17,200.00	7,935.84	16,959.36	7,888.99	254.02	251.66	88.63	420.68	-9,647.81	1,960.50	1,455.50	505.00	3.882		
17,300.00	7,935.84	17,059.36	7,888.99	256.69	254.33	88.63	421.11	-9,747.81	1,960.50	1,450.16	510.34	3.842		
17,400.00	7,935.84	17,159.36	7,888.99	259.35	257.00	88.63	421.55	-9,847.81	1,960.51	1,444.82	515.69	3.802		
17,500.00	7,935.84	17,259.36	7,888.99	262.02	259.68	88.63	421.99	-9,947.81	1,960.51	1,439.47	521.03	3.763		
17,600.00	7,935.83	17,359.36	7,888.99	264.69	262.35	88.63	422.43	-10,047.80	1,960.51	1,434.13	526.38	3.725		
17,700.00	7,935.83	17,459.36	7,888.99	267.36	265.02	88.63	422.86	-10,147.80	1,960.51	1,428.78	531.73	3.687		
17,800.00	7,935.83	17,559.36	7,888.99	270.03	267.70	88.63	423.30	-10,247.80	1,960.51	1,423.44	537.08	3.650		
17,900.00	7,935.83	17,659.36	7,888.99	272.71	270.37	88.63	423.74	-10,347.80	1,960.52	1,418.09	542.43	3.614		
18,000.00	7,935.83	17,759.36	7,888.99	275.38	273.05	88.63	424.18	-10,447.80	1,960.52	1,412.74	547.78	3.579		
18,100.00	7,935.83	17,859.36	7,888.99	278.05	275.72	88.63	424.61	-10,547.80	1,960.52	1,407.39	553.13	3.544		
18,153.00	7,936.00	17,918.14	7,889.00	279.47	277.29	88.63	424.82	-10,606.58	1,960.33	1,404.18	556.15	3.525 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-160.31	160.31					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-160.31	160.31	160.04	0.27	596.279		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-160.31	160.31	159.33	0.99	162.622		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-160.31	160.31	158.61	1.70	94.149		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-160.31	160.31	157.89	2.42	66.253		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-160.31	160.31	157.18	3.14	51.110		
600.00	599.98	600.02	599.98	1.91	1.93	78.14	0.00	-160.31	159.94	156.11	3.84	41.690		
700.00	699.84	700.16	699.84	2.25	2.29	80.00	0.00	-160.31	158.95	154.42	4.53	35.089		
800.00	799.45	800.55	799.45	2.59	2.65	83.14	0.00	-160.31	157.67	152.43	5.24	30.097		
900.00	898.70	901.30	898.70	2.96	3.01	87.55	0.00	-160.31	156.67	150.70	5.97	26.256		
945.91	944.11	944.11	944.11	3.14	3.16	90.00	0.00	-160.31	156.53	150.23	6.30	24.846 CC		
1,000.00	997.47	1,002.53	997.47	3.35	3.37	93.20	0.00	-160.31	156.78	150.06	6.72	23.328 ES		
1,100.00	1,095.62	1,104.38	1,095.62	3.77	3.73	99.91	0.00	-160.31	159.01	151.50	7.50	21.196		
1,200.00	1,193.06	1,193.06	1,193.06	4.22	4.05	107.37	0.00	-160.31	164.46	156.20	8.26	19.919		
1,244.60	1,236.24	1,234.66	1,234.66	4.43	4.20	110.65	-0.02	-160.52	168.38	159.78	8.60	19.576		
1,300.00	1,289.78	1,285.97	1,285.96	4.71	4.38	114.51	-0.12	-161.60	174.91	165.88	9.03	19.380		
1,400.00	1,386.43	1,382.51	1,382.44	5.21	4.71	120.80	-0.40	-164.70	189.44	179.65	9.79	19.347		
1,500.00	1,483.07	1,479.35	1,479.23	5.73	5.04	126.19	-0.68	-167.83	205.98	195.43	10.55	19.528		
1,600.00	1,579.71	1,576.19	1,576.03	6.25	5.38	130.76	-0.96	-170.95	224.08	212.79	11.30	19.838		
1,700.00	1,676.35	1,673.03	1,672.82	6.78	5.72	134.66	-1.24	-174.08	243.39	231.36	12.04	20.222		
1,800.00	1,772.99	1,769.88	1,769.61	7.32	6.06	137.98	-1.52	-177.21	263.65	250.88	12.77	20.644		
1,900.00	1,869.63	1,866.72	1,866.40	7.86	6.40	140.82	-1.80	-180.33	284.65	271.14	13.50	21.081		
2,000.00	1,966.27	1,963.56	1,963.19	8.41	6.74	143.28	-2.09	-183.46	306.23	292.00	14.23	21.517		
2,100.00	2,062.91	2,060.40	2,059.98	8.96	7.08	145.42	-2.37	-186.58	328.30	313.34	14.96	21.944		
2,200.00	2,159.55	2,157.25	2,156.78	9.51	7.43	147.28	-2.65	-189.71	350.74	335.05	15.69	22.356		
2,300.00	2,256.20	2,254.09	2,253.57	10.06	7.77	148.93	-2.93	-192.83	373.50	357.09	16.42	22.751		
2,400.00	2,352.84	2,350.93	2,350.36	10.61	8.12	150.38	-3.21	-195.96	396.53	379.38	17.15	23.127		
2,500.00	2,449.48	2,447.77	2,447.15	11.17	8.46	151.68	-3.49	-199.08	419.77	401.89	17.87	23.485		
2,600.00	2,546.12	2,544.62	2,543.94	11.72	8.81	152.84	-3.77	-202.21	443.19	424.59	18.60	23.823		
2,700.00	2,642.76	2,641.46	2,640.74	12.28	9.16	153.89	-4.06	-205.33	466.77	447.44	19.33	24.143		
2,800.00	2,739.40	2,738.30	2,737.53	12.84	9.50	154.83	-4.34	-208.46	490.49	470.42	20.06	24.446		
2,900.00	2,836.04	2,835.15	2,834.32	13.40	9.85	155.69	-4.62	-211.58	514.31	493.52	20.80	24.732		
3,000.00	2,932.68	2,931.99	2,931.11	13.96	10.20	156.47	-4.90	-214.71	538.24	516.72	21.53	25.002		
3,100.00	3,029.33	3,028.83	3,027.90	14.52	10.55	157.19	-5.18	-217.84	562.26	540.00	22.26	25.258		
3,200.00	3,125.97	3,125.67	3,124.69	15.08	10.89	157.85	-5.46	-220.96	586.35	563.36	22.99	25.501		
3,300.00	3,222.61	3,222.52	3,221.49	15.64	11.24	158.45	-5.75	-224.09	610.51	586.78	23.73	25.730		
3,400.00	3,319.25	3,319.36	3,318.28	16.21	11.59	159.01	-6.03	-227.21	634.73	610.27	24.46	25.948		
3,500.00	3,415.89	3,416.20	3,415.07	16.77	11.94	159.53	-6.31	-230.34	659.00	633.80	25.20	26.154		
3,600.00	3,512.53	3,513.04	3,511.86	17.33	12.29	160.01	-6.59	-233.46	683.32	657.39	25.93	26.350		
3,700.00	3,609.17	3,609.89	3,608.65	17.89	12.64	160.46	-6.87	-236.59	707.68	681.01	26.67	26.536		
3,800.00	3,705.81	3,706.73	3,705.45	18.46	12.99	160.88	-7.15	-239.71	732.08	704.68	27.40	26.714		
3,900.00	3,802.46	3,803.57	3,802.24	19.02	13.33	161.27	-7.44	-242.84	756.52	728.37	28.14	26.882		
4,000.00	3,899.10	3,900.41	3,899.03	19.59	13.68	161.64	-7.72	-245.96	780.98	752.10	28.88	27.043		
4,100.00	3,995.74	4,002.74	3,995.82	20.15	14.05	161.99	-8.00	-249.09	805.48	775.84	29.64	27.179		
4,200.00	4,092.38	4,105.90	4,092.61	20.71	14.43	162.31	-8.28	-252.21	830.00	799.60	30.40	27.305		
4,300.00	4,189.02	4,209.06	4,189.40	21.28	14.80	162.62	-8.56	-255.34	854.54	823.38	31.16	27.426		
4,400.00	4,285.66	4,287.78	4,286.20	21.84	15.08	162.91	-8.84	-258.47	879.11	847.27	31.83	27.617		
4,500.00	4,382.30	4,384.63	4,382.99	22.41	15.43	163.18	-9.13	-261.59	903.69	871.12	32.57	27.745		
4,600.00	4,478.94	4,481.47	4,479.78	22.97	15.78	163.44	-9.41	-264.72	928.30	894.99	33.31	27.868		
4,700.00	4,575.59	4,578.31	4,576.57	23.54	16.13	163.69	-9.69	-267.84	952.92	918.87	34.05	27.986		
4,800.00	4,672.23	4,675.16	4,673.36	24.10	16.48	163.92	-9.97	-270.97	977.55	942.76	34.79	28.099		
4,900.00	4,768.87	4,772.00	4,770.15	24.67	16.83	164.14	-10.25	-274.09	1,002.20	966.67	35.53	28.207		

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 5-6-10
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 5-6-10	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	4,865.51	4,868.84	4,866.95	25.24	17.18	164.35	-10.53	-277.22	1,026.87	990.60	36.27	28.311		
5,100.00	4,962.15	4,965.68	4,963.74	25.80	17.53	164.55	-10.82	-280.34	1,051.55	1,014.53	37.01	28.411		
5,200.00	5,058.79	5,062.53	5,060.53	26.37	17.88	164.75	-11.10	-283.47	1,076.24	1,038.48	37.75	28.508		
5,300.00	5,155.43	5,159.37	5,157.32	26.93	18.23	164.93	-11.38	-286.59	1,100.93	1,062.44	38.49	28.600		
5,400.00	5,252.07	5,256.21	5,254.11	27.50	18.58	165.11	-11.66	-289.72	1,125.64	1,086.41	39.24	28.690		
5,500.00	5,348.72	5,353.05	5,350.91	28.07	18.93	165.27	-11.94	-292.84	1,150.36	1,110.39	39.98	28.776		
5,600.00	5,445.36	5,449.90	5,447.70	28.63	19.28	165.43	-12.22	-295.97	1,175.09	1,134.37	40.72	28.859		
5,700.00	5,542.00	5,546.74	5,544.49	29.20	19.63	165.59	-12.51	-299.10	1,199.83	1,158.37	41.46	28.939		
5,800.00	5,638.64	5,643.58	5,641.28	29.76	19.98	165.74	-12.79	-302.22	1,224.57	1,182.37	42.20	29.016		
5,900.00	5,735.28	5,740.42	5,738.07	30.33	20.33	165.88	-13.07	-305.35	1,249.32	1,206.38	42.95	29.091		
6,000.00	5,831.92	5,837.27	5,834.86	30.90	20.69	166.02	-13.35	-308.47	1,274.08	1,230.40	43.69	29.163		
6,100.00	5,928.56	5,934.11	5,931.66	31.46	21.04	166.15	-13.63	-311.60	1,298.85	1,254.42	44.43	29.233		
6,200.00	6,025.20	6,030.95	6,028.45	32.03	21.39	166.27	-13.91	-314.72	1,323.62	1,278.45	45.17	29.301		
6,300.00	6,121.85	6,127.79	6,125.24	32.60	21.74	166.40	-14.20	-317.85	1,348.40	1,302.48	45.92	29.366		
6,400.00	6,218.49	6,224.64	6,222.03	33.16	22.09	166.51	-14.48	-320.97	1,373.18	1,326.52	46.66	29.429		
6,500.00	6,315.13	6,321.48	6,318.82	33.73	22.44	166.63	-14.76	-324.10	1,397.97	1,350.56	47.40	29.491		
6,600.00	6,411.77	6,418.32	6,415.62	34.30	22.79	166.74	-15.04	-327.22	1,422.76	1,374.61	48.15	29.550		
6,700.00	6,508.41	6,515.17	6,512.41	34.86	23.14	166.84	-15.32	-330.35	1,447.56	1,398.67	48.89	29.608		
6,791.42	6,596.76	6,603.70	6,600.89	35.38	23.46	166.93	-15.58	-333.21	1,470.23	1,420.66	49.57	29.659		
6,800.00	6,605.05	6,612.01	6,609.20	35.43	23.49	166.95	-15.60	-333.47	1,472.35	1,422.71	49.64	29.664		
6,900.00	6,702.20	6,709.33	6,706.47	35.97	23.84	167.14	-15.89	-336.62	1,495.22	1,444.84	50.38	29.681		
7,000.00	6,800.11	6,807.39	6,804.48	36.47	24.20	167.28	-16.17	-339.78	1,514.77	1,463.65	51.11	29.636		
7,100.00	6,898.67	6,906.07	6,903.10	36.93	24.56	167.37	-16.46	-342.96	1,530.96	1,479.12	51.84	29.531		
7,200.00	6,997.75	7,005.23	7,002.22	37.34	24.92	167.41	-16.75	-346.16	1,543.79	1,491.22	52.57	29.368		
7,300.00	7,097.25	7,102.82	7,099.76	37.71	25.27	167.43	-17.01	-349.03	1,553.26	1,499.99	53.27	29.160		
7,400.00	7,197.04	7,199.90	7,196.84	38.04	25.61	167.48	-17.05	-349.69	1,559.55	1,505.62	53.93	28.917		
7,500.00	7,296.99	7,297.24	7,293.46	38.32	25.97	167.12	-17.00	-360.45	1,562.57	1,507.92	54.65	28.593		
7,536.02	7,333.00	7,331.05	7,326.42	38.41	26.11	-0.68	-16.97	-368.00	1,562.91	1,508.00	54.91	28.464		
7,566.02	7,363.00	7,358.45	7,352.76	38.47	26.22	-0.95	-16.93	-375.54	1,563.07	1,507.95	55.12	28.358		
7,600.00	7,396.96	7,388.83	7,381.50	38.55	26.35	88.44	-16.89	-385.35	1,563.32	1,507.96	55.36	28.238		
7,650.00	7,446.68	7,432.77	7,422.07	38.68	26.54	87.93	-16.82	-402.22	1,563.79	1,508.06	55.73	28.061		
7,700.00	7,495.77	7,475.89	7,460.50	38.82	26.73	87.44	-16.73	-421.73	1,564.37	1,508.27	56.10	27.885		
7,750.00	7,543.84	7,518.26	7,496.73	38.97	26.94	86.97	-16.64	-443.68	1,565.04	1,508.56	56.48	27.711		
7,800.00	7,590.54	7,559.96	7,530.72	39.12	27.14	86.51	-16.53	-467.83	1,565.78	1,508.91	56.86	27.536		
7,850.00	7,635.50	7,601.07	7,562.41	39.27	27.36	86.08	-16.42	-494.00	1,566.56	1,509.30	57.26	27.359		
7,900.00	7,678.39	7,641.65	7,591.78	39.44	27.60	85.67	-16.29	-521.99	1,567.37	1,509.70	57.68	27.175		
7,950.00	7,718.88	7,681.76	7,618.79	39.60	27.85	85.29	-16.17	-551.63	1,568.20	1,510.08	58.12	26.984		
8,000.00	7,756.67	7,721.45	7,643.41	39.78	28.12	84.94	-16.03	-582.75	1,569.01	1,510.42	58.58	26.782		
8,050.00	7,791.45	7,760.79	7,665.63	39.96	28.40	84.62	-15.89	-615.20	1,569.78	1,510.70	59.09	26.567		
8,100.00	7,822.98	7,800.00	7,685.51	40.15	28.71	84.33	-15.74	-648.99	1,570.52	1,510.88	59.64	26.334		
8,150.00	7,851.01	7,838.56	7,702.76	40.35	29.04	84.08	-15.59	-683.47	1,571.18	1,510.94	60.24	26.082		
8,200.00	7,875.32	7,877.09	7,717.65	40.57	29.40	83.87	-15.43	-719.00	1,571.77	1,510.87	60.90	25.808		
8,250.00	7,895.74	7,915.44	7,730.06	40.81	29.78	83.70	-15.28	-755.28	1,572.26	1,510.64	61.63	25.513		
8,300.00	7,912.10	7,953.64	7,739.98	41.06	30.18	83.56	-15.11	-792.16	1,572.66	1,510.24	62.41	25.197		
8,350.00	7,924.28	7,991.73	7,747.41	41.34	30.61	83.46	-14.95	-829.52	1,572.94	1,509.67	63.27	24.859		
8,400.00	7,932.19	8,029.76	7,752.33	41.65	31.06	83.40	-14.79	-867.22	1,573.11	1,508.91	64.20	24.504		
8,450.00	7,935.77	8,067.76	7,754.74	41.99	31.53	83.39	-14.62	-905.13	1,573.16	1,507.98	65.18	24.136		
8,466.09	7,936.00	8,079.99	7,754.98	42.10	31.68	83.39	-14.57	-917.35	1,573.15	1,507.64	65.50	24.016		
8,471.38	7,936.00	8,086.61	7,755.00	42.14	31.77	83.39	-14.55	-921.02	1,573.14	1,507.50	65.64	23.965		
8,500.00	7,936.00	8,112.27	7,755.00	42.35	32.11	83.39	-14.43	-949.63	1,573.14	1,506.79	66.35	23.709		
8,600.00	7,936.00	8,212.27	7,755.00	43.20	33.51	83.39	-13.99	-1,049.63	1,573.15	1,504.01	69.14	22.754		
8,700.00	7,936.00	8,312.27	7,755.00	44.20	35.07	83.39	-13.55	-1,149.63	1,573.15	1,500.94	72.21	21.785		

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 5-6-10
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 5-6-10	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	7,935.99	8,412.27	7,755.00	45.35	36.76	83.39	-13.12	-1,249.63	1,573.15	1,497.61	75.54	20.825				
8,900.00	7,935.99	8,512.27	7,755.00	46.65	38.56	83.39	-12.68	-1,349.63	1,573.15	1,494.06	79.09	19.890				
9,000.00	7,935.99	8,612.27	7,755.00	48.10	40.46	83.39	-12.24	-1,449.63	1,573.15	1,490.31	82.84	18.990				
9,100.00	7,935.99	8,712.27	7,755.00	49.67	42.44	83.39	-11.81	-1,549.63	1,573.15	1,486.40	86.75	18.133				
9,200.00	7,935.99	8,812.27	7,755.00	51.37	44.50	83.39	-11.37	-1,649.63	1,573.15	1,482.34	90.82	17.322				
9,300.00	7,935.99	8,912.27	7,755.00	53.16	46.63	83.39	-10.93	-1,749.63	1,573.16	1,478.15	95.01	16.559				
9,400.00	7,935.98	9,012.27	7,755.00	55.05	48.81	83.39	-10.49	-1,849.63	1,573.16	1,473.85	99.31	15.841				
9,500.00	7,935.98	9,112.27	7,755.00	57.02	51.04	83.39	-10.06	-1,949.63	1,573.16	1,469.45	103.71	15.170				
9,600.00	7,935.98	9,212.27	7,755.00	59.06	53.31	83.39	-9.62	-2,049.62	1,573.16	1,464.97	108.19	14.541				
9,700.00	7,935.98	9,312.27	7,755.00	61.16	55.62	83.39	-9.18	-2,149.62	1,573.16	1,460.41	112.75	13.953				
9,800.00	7,935.98	9,412.27	7,755.00	63.31	57.96	83.39	-8.75	-2,249.62	1,573.16	1,455.79	117.38	13.403				
9,900.00	7,935.97	9,512.27	7,755.00	65.50	60.33	83.39	-8.31	-2,349.62	1,573.16	1,451.10	122.06	12.888				
10,000.00	7,935.97	9,612.27	7,755.00	67.74	62.72	83.39	-7.87	-2,449.62	1,573.17	1,446.36	126.80	12.406				
10,100.00	7,935.97	9,712.27	7,755.00	70.02	65.14	83.39	-7.44	-2,549.62	1,573.17	1,441.58	131.59	11.955				
10,200.00	7,935.97	9,812.27	7,755.00	72.32	67.58	83.39	-7.00	-2,649.62	1,573.17	1,436.75	136.42	11.532				
10,300.00	7,935.97	9,912.27	7,755.00	74.66	70.04	83.39	-6.56	-2,749.62	1,573.17	1,431.89	141.28	11.135				
10,400.00	7,935.97	10,012.27	7,755.00	77.02	72.52	83.39	-6.13	-2,849.62	1,573.17	1,426.99	146.18	10.762				
10,500.00	7,935.96	10,112.27	7,755.00	79.41	75.01	83.39	-5.69	-2,949.62	1,573.17	1,422.06	151.11	10.411				
10,600.00	7,935.96	10,212.27	7,755.00	81.81	77.51	83.39	-5.25	-3,049.61	1,573.17	1,417.10	156.07	10.080				
10,700.00	7,935.96	10,312.27	7,755.00	84.24	80.02	83.39	-4.82	-3,149.61	1,573.18	1,412.12	161.05	9.768				
10,800.00	7,935.96	10,412.27	7,755.00	86.68	82.55	83.39	-4.38	-3,249.61	1,573.18	1,407.12	166.06	9.474				
10,900.00	7,935.96	10,512.27	7,755.00	89.14	85.08	83.39	-3.94	-3,349.61	1,573.18	1,402.09	171.09	9.195				
11,000.00	7,935.95	10,612.27	7,755.00	91.61	87.63	83.39	-3.50	-3,449.61	1,573.18	1,397.05	176.13	8.932				
11,100.00	7,935.95	10,712.27	7,755.00	94.10	90.18	83.39	-3.07	-3,549.61	1,573.18	1,391.98	181.20	8.682				
11,200.00	7,935.95	10,812.27	7,755.00	96.59	92.74	83.40	-2.63	-3,649.61	1,573.18	1,386.91	186.28	8.445				
11,300.00	7,935.95	10,912.27	7,755.00	99.10	95.31	83.40	-2.19	-3,749.61	1,573.19	1,381.81	191.37	8.221				
11,400.00	7,935.95	11,012.27	7,755.00	101.62	97.89	83.40	-1.76	-3,849.61	1,573.19	1,376.71	196.48	8.007				
11,500.00	7,935.95	11,112.27	7,755.00	104.15	100.47	83.40	-1.32	-3,949.61	1,573.19	1,371.59	201.60	7.803				
11,600.00	7,935.94	11,212.27	7,755.00	106.68	103.05	83.40	-0.88	-4,049.61	1,573.19	1,366.46	206.73	7.610				
11,700.00	7,935.94	11,312.27	7,755.00	109.23	105.65	83.40	-0.45	-4,149.60	1,573.19	1,361.31	211.88	7.425				
11,800.00	7,935.94	11,412.27	7,755.00	111.78	108.24	83.40	-0.01	-4,249.60	1,573.19	1,356.16	217.03	7.249				
11,900.00	7,935.94	11,512.27	7,755.00	114.33	110.84	83.40	0.43	-4,349.60	1,573.19	1,351.00	222.19	7.080				
12,000.00	7,935.94	11,612.27	7,755.00	116.90	113.45	83.40	0.86	-4,449.60	1,573.20	1,345.83	227.37	6.919				
12,100.00	7,935.93	11,712.27	7,755.00	119.47	116.06	83.40	1.30	-4,549.60	1,573.20	1,340.65	232.54	6.765				
12,200.00	7,935.93	11,812.27	7,755.00	122.04	118.67	83.40	1.74	-4,649.60	1,573.20	1,335.47	237.73	6.618				
12,300.00	7,935.93	11,912.27	7,755.00	124.63	121.29	83.40	2.17	-4,749.60	1,573.20	1,330.27	242.93	6.476				
12,400.00	7,935.93	12,012.27	7,755.00	127.21	123.90	83.40	2.61	-4,849.60	1,573.20	1,325.07	248.13	6.340				
12,500.00	7,935.93	12,112.27	7,755.00	129.80	126.53	83.40	3.05	-4,949.60	1,573.20	1,319.87	253.34	6.210				
12,600.00	7,935.93	12,212.27	7,755.00	132.40	129.15	83.40	3.48	-5,049.60	1,573.20	1,314.66	258.55	6.085				
12,700.00	7,935.92	12,312.27	7,755.00	135.00	131.78	83.40	3.92	-5,149.59	1,573.21	1,309.44	263.77	5.964				
12,800.00	7,935.92	12,412.27	7,755.00	137.60	134.41	83.40	4.36	-5,249.59	1,573.21	1,304.22	268.99	5.849				
12,900.00	7,935.92	12,512.27	7,755.00	140.20	137.04	83.40	4.80	-5,349.59	1,573.21	1,298.99	274.22	5.737				
13,000.00	7,935.92	12,612.27	7,755.00	142.81	139.67	83.40	5.23	-5,449.59	1,573.21	1,293.76	279.45	5.630				
13,100.00	7,935.92	12,712.27	7,755.00	145.43	142.31	83.40	5.67	-5,549.59	1,573.21	1,288.52	284.69	5.526				
13,200.00	7,935.91	12,812.27	7,755.00	148.04	144.95	83.40	6.11	-5,649.59	1,573.21	1,283.28	289.93	5.426				
13,300.00	7,935.91	12,912.27	7,755.00	150.66	147.59	83.40	6.54	-5,749.59	1,573.21	1,278.03	295.18	5.330				
13,400.00	7,935.91	13,012.27	7,754.99	153.28	150.23	83.40	6.98	-5,849.59	1,573.22	1,272.79	300.43	5.237				
13,500.00	7,935.91	13,112.27	7,754.99	155.90	152.88	83.40	7.42	-5,949.59	1,573.22	1,267.53	305.68	5.147				
13,600.00	7,935.91	13,212.27	7,754.99	158.53	155.52	83.40	7.85	-6,049.59	1,573.22	1,262.28	310.94	5.060				
13,700.00	7,935.91	13,312.27	7,754.99	161.16	158.17	83.40	8.29	-6,149.59	1,573.22	1,257.02	316.20	4.975				
13,800.00	7,935.90	13,412.27	7,754.99	163.79	160.82	83.40	8.73	-6,249.58	1,573.22	1,251.76	321.46	4.894				
13,900.00	7,935.90	13,512.27	7,754.99	166.42	163.47	83.40	9.16	-6,349.58	1,573.22	1,246.49	326.73	4.815				

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 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T4S-R65W - JAMASO 4-65 5-6-6 - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,935.90	13,612.27	7,754.99	169.05	166.12	83.40	9.60	-6,449.58	1,573.22	1,241.23	332.00	4.739		
14,100.00	7,935.90	13,712.27	7,754.99	171.69	168.77	83.40	10.04	-6,549.58	1,573.23	1,235.96	337.27	4.665		
14,200.00	7,935.90	13,812.27	7,754.99	174.33	171.42	83.40	10.47	-6,649.58	1,573.23	1,230.69	342.54	4.593		
14,300.00	7,935.89	13,912.27	7,754.99	176.97	174.08	83.40	10.91	-6,749.58	1,573.23	1,225.41	347.82	4.523		
14,400.00	7,935.89	14,012.27	7,754.99	179.61	176.73	83.40	11.35	-6,849.58	1,573.23	1,220.13	353.10	4.456		
14,500.00	7,935.89	14,112.27	7,754.99	182.25	179.39	83.40	11.79	-6,949.58	1,573.23	1,214.85	358.38	4.390		
14,600.00	7,935.89	14,212.27	7,754.99	184.90	182.04	83.40	12.22	-7,049.58	1,573.23	1,209.57	363.66	4.326		
14,700.00	7,935.89	14,312.27	7,754.99	187.54	184.70	83.40	12.66	-7,149.58	1,573.23	1,204.29	368.94	4.264		
14,800.00	7,935.89	14,412.27	7,754.99	190.19	187.36	83.40	13.10	-7,249.57	1,573.24	1,199.01	374.23	4.204		
14,900.00	7,935.88	14,512.27	7,754.99	192.84	190.02	83.40	13.53	-7,349.57	1,573.24	1,193.72	379.52	4.145		
15,000.00	7,935.88	14,612.27	7,754.99	195.49	192.68	83.40	13.97	-7,449.57	1,573.24	1,188.43	384.81	4.088		
15,100.00	7,935.88	14,712.27	7,754.99	198.14	195.35	83.40	14.41	-7,549.57	1,573.24	1,183.14	390.10	4.033		
15,200.00	7,935.88	14,812.27	7,754.99	200.79	198.01	83.40	14.84	-7,649.57	1,573.24	1,177.85	395.39	3.979		
15,300.00	7,935.88	14,912.27	7,754.99	203.44	200.67	83.40	15.28	-7,749.57	1,573.24	1,172.55	400.69	3.926		
15,400.00	7,935.87	15,012.27	7,754.99	206.10	203.33	83.40	15.72	-7,849.57	1,573.24	1,167.26	405.99	3.875		
15,500.00	7,935.87	15,112.27	7,754.99	208.75	206.00	83.40	16.15	-7,949.57	1,573.25	1,161.96	411.28	3.825		
15,600.00	7,935.87	15,212.27	7,754.99	211.41	208.66	83.40	16.59	-8,049.57	1,573.25	1,156.67	416.58	3.777		
15,700.00	7,935.87	15,312.27	7,754.99	214.07	211.33	83.40	17.03	-8,149.57	1,573.25	1,151.37	421.88	3.729		
15,800.00	7,935.87	15,412.27	7,754.99	216.72	214.00	83.40	17.46	-8,249.57	1,573.25	1,146.07	427.18	3.683		
15,900.00	7,935.87	15,512.27	7,754.99	219.38	216.66	83.40	17.90	-8,349.56	1,573.25	1,140.76	432.49	3.638		
16,000.00	7,935.86	15,612.27	7,754.99	222.04	219.33	83.40	18.34	-8,449.56	1,573.25	1,135.46	437.79	3.594		
16,100.00	7,935.86	15,712.27	7,754.99	224.70	222.00	83.40	18.78	-8,549.56	1,573.25	1,130.16	443.10	3.551		
16,200.00	7,935.86	15,812.27	7,754.99	227.37	224.67	83.40	19.21	-8,649.56	1,573.26	1,124.85	448.40	3.509		
16,300.00	7,935.86	15,912.27	7,754.99	230.03	227.34	83.40	19.65	-8,749.56	1,573.26	1,119.55	453.71	3.468		
16,400.00	7,935.86	16,012.27	7,754.99	232.69	230.01	83.40	20.09	-8,849.56	1,573.26	1,114.24	459.02	3.427		
16,500.00	7,935.85	16,112.27	7,754.99	235.35	232.68	83.40	20.52	-8,949.56	1,573.26	1,108.93	464.33	3.388		
16,600.00	7,935.85	16,212.27	7,754.99	238.02	235.35	83.40	20.96	-9,049.56	1,573.26	1,103.62	469.64	3.350		
16,700.00	7,935.85	16,312.27	7,754.99	240.68	238.02	83.40	21.40	-9,149.56	1,573.26	1,098.31	474.95	3.312		
16,800.00	7,935.85	16,412.27	7,754.99	243.35	240.69	83.40	21.83	-9,249.56	1,573.27	1,093.00	480.26	3.276		
16,900.00	7,935.85	16,512.27	7,754.99	246.01	243.36	83.40	22.27	-9,349.55	1,573.27	1,087.69	485.58	3.240		
17,000.00	7,935.85	16,612.27	7,754.99	248.68	246.03	83.40	22.71	-9,449.55	1,573.27	1,082.38	490.89	3.205		
17,100.00	7,935.84	16,712.27	7,754.99	251.35	248.71	83.40	23.14	-9,549.55	1,573.27	1,077.06	496.21	3.171		
17,200.00	7,935.84	16,812.27	7,754.99	254.02	251.38	83.40	23.58	-9,649.55	1,573.27	1,071.75	501.52	3.137		
17,300.00	7,935.84	16,912.27	7,754.99	256.69	254.05	83.40	24.02	-9,749.55	1,573.27	1,066.43	506.84	3.104		
17,400.00	7,935.84	17,012.27	7,754.99	259.35	256.73	83.40	24.45	-9,849.55	1,573.27	1,061.12	512.15	3.072		
17,500.00	7,935.84	17,112.27	7,754.99	262.02	259.40	83.40	24.89	-9,949.55	1,573.28	1,055.80	517.47	3.040		
17,600.00	7,935.83	17,212.27	7,754.99	264.69	262.07	83.40	25.33	-10,049.55	1,573.28	1,050.49	522.79	3.009		
17,700.00	7,935.83	17,312.27	7,754.99	267.36	264.75	83.40	25.76	-10,149.55	1,573.28	1,045.17	528.11	2.979		
17,800.00	7,935.83	17,412.27	7,754.99	270.03	267.42	83.40	26.20	-10,249.55	1,573.28	1,039.85	533.43	2.949		
17,900.00	7,935.83	17,512.27	7,754.99	272.71	270.10	83.40	26.64	-10,349.55	1,573.28	1,034.53	538.75	2.920		
18,000.00	7,935.83	17,612.27	7,754.99	275.38	272.77	83.40	27.08	-10,449.54	1,573.28	1,029.21	544.07	2.892		
18,100.00	7,935.83	17,712.20	7,754.99	278.05	275.45	83.40	27.51	-10,549.48	1,573.28	1,023.89	549.39	2.864		
18,152.79	7,935.82	17,764.99	7,755.00	279.46	276.86	83.40	27.75	-10,602.26	1,573.29	1,021.09	552.20	2.849		
18,153.00	7,936.00	17,765.20	7,755.00	279.47	276.87	83.39	27.75	-10,602.47	1,573.16	1,020.95	552.20	2.849 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	599.98	600.02	599.98	1.91	1.93	79.37	0.00	-53.44	53.09	49.25	3.84	13.837		
700.00	699.84	700.16	699.84	2.25	2.29	85.02	0.00	-53.44	52.38	47.85	4.53	11.562		
757.23	756.88	756.88	756.88	2.44	2.49	90.00	0.00	-53.44	52.18	47.24	4.93	10.577 CC		
800.00	799.45	800.55	799.45	2.59	2.65	94.53	0.00	-53.44	52.34	47.10	5.24	9.991 ES		
900.00	898.70	901.30	898.70	2.96	3.01	107.23	0.00	-53.44	54.67	48.71	5.97	9.164		
1,000.00	997.47	1,002.53	997.47	3.35	3.37	121.12	0.00	-53.44	61.20	54.49	6.71	9.124		
1,100.00	1,095.62	1,095.62	1,095.62	3.77	3.70	133.75	0.00	-53.44	73.00	65.58	7.42	9.839		
1,200.00	1,193.06	1,194.51	1,194.50	4.22	4.04	143.10	-1.24	-54.38	89.42	81.29	8.14	10.992		
1,244.60	1,236.24	1,238.81	1,238.76	4.43	4.19	146.03	-2.68	-55.46	97.67	89.21	8.45	11.554		
1,300.00	1,289.78	1,294.12	1,293.97	4.71	4.37	148.86	-5.24	-57.40	108.03	99.19	8.84	12.214		
1,400.00	1,386.43	1,406.79	1,392.75	5.21	4.76	152.01	-11.48	-62.10	125.95	116.34	9.61	13.111		
1,500.00	1,483.07	1,508.56	1,490.65	5.73	5.11	154.26	-17.88	-66.94	143.96	133.62	10.34	13.922		
1,600.00	1,579.71	1,589.67	1,588.55	6.25	5.39	156.00	-24.28	-71.77	162.13	151.13	11.01	14.729		
1,700.00	1,676.35	1,687.89	1,686.45	6.78	5.74	157.40	-30.68	-76.60	180.43	168.69	11.74	15.370		
1,800.00	1,772.99	1,786.12	1,784.35	7.32	6.09	158.54	-37.08	-81.43	198.81	186.33	12.47	15.937		
1,900.00	1,869.63	1,884.35	1,882.25	7.86	6.45	159.48	-43.49	-86.26	217.25	204.04	13.21	16.442		
2,000.00	1,966.27	1,982.57	1,980.15	8.41	6.81	160.28	-49.89	-91.10	235.74	221.78	13.95	16.893		
2,100.00	2,062.91	2,080.80	2,078.05	8.96	7.17	160.96	-56.29	-95.93	254.27	239.57	14.70	17.299		
2,200.00	2,159.55	2,179.03	2,175.95	9.51	7.53	161.55	-62.69	-100.76	272.82	257.38	15.44	17.665		
2,300.00	2,256.20	2,277.25	2,273.85	10.06	7.89	162.06	-69.09	-105.59	291.41	275.21	16.19	17.997		
2,400.00	2,352.84	2,375.48	2,371.74	10.61	8.26	162.52	-75.49	-110.42	310.01	293.07	16.94	18.299		
2,500.00	2,449.48	2,473.71	2,469.64	11.17	8.62	162.92	-81.89	-115.26	328.63	310.93	17.69	18.575		
2,600.00	2,546.12	2,571.94	2,567.54	11.72	8.99	163.28	-88.30	-120.09	347.26	328.81	18.44	18.828		
2,700.00	2,642.76	2,670.16	2,665.44	12.28	9.36	163.60	-94.70	-124.92	365.90	346.71	19.20	19.061		
2,800.00	2,739.40	2,768.39	2,763.34	12.84	9.73	163.89	-101.10	-129.75	384.56	364.61	19.95	19.276		
2,900.00	2,836.04	2,866.62	2,861.24	13.40	10.10	164.15	-107.50	-134.58	403.22	382.51	20.70	19.475		
3,000.00	2,932.68	2,964.84	2,959.14	13.96	10.47	164.39	-113.90	-139.41	421.89	400.43	21.46	19.659		
3,100.00	3,029.33	3,063.07	3,057.04	14.52	10.84	164.61	-120.30	-144.25	440.57	418.35	22.22	19.831		
3,200.00	3,125.97	3,161.30	3,154.94	15.08	11.21	164.81	-126.71	-149.08	459.25	436.27	22.97	19.991		
3,300.00	3,222.61	3,259.52	3,252.84	15.64	11.59	165.00	-133.11	-153.91	477.94	454.20	23.73	20.140		
3,400.00	3,319.25	3,357.75	3,350.73	16.21	11.96	165.17	-139.51	-158.74	496.63	472.14	24.49	20.280		
3,500.00	3,415.89	3,455.98	3,448.63	16.77	12.33	165.33	-145.91	-163.57	515.32	490.08	25.25	20.411		
3,600.00	3,512.53	3,554.21	3,546.53	17.33	12.71	165.48	-152.31	-168.41	534.02	508.02	26.01	20.535		
3,700.00	3,609.17	3,652.43	3,644.43	17.89	13.08	165.62	-158.71	-173.24	552.73	525.96	26.76	20.651		
3,800.00	3,705.81	3,750.66	3,742.33	18.46	13.45	165.75	-165.11	-178.07	571.43	543.91	27.52	20.761		
3,900.00	3,802.46	3,848.89	3,840.23	19.02	13.83	165.87	-171.52	-182.90	590.14	561.86	28.28	20.864		
4,000.00	3,899.10	3,947.11	3,938.13	19.59	14.20	165.98	-177.92	-187.73	608.85	579.81	29.04	20.962		
4,100.00	3,995.74	4,045.34	4,036.03	20.15	14.58	166.09	-184.32	-192.57	627.56	597.76	29.81	21.055		
4,200.00	4,092.38	4,143.57	4,133.93	20.71	14.95	166.19	-190.72	-197.40	646.28	615.71	30.57	21.143		
4,300.00	4,189.02	4,241.79	4,231.82	21.28	15.33	166.29	-197.12	-202.23	665.00	633.67	31.33	21.227		
4,400.00	4,285.66	4,340.02	4,329.72	21.84	15.70	166.38	-203.52	-207.06	683.71	651.63	32.09	21.307		
4,500.00	4,382.30	4,438.25	4,427.62	22.41	16.08	166.46	-209.93	-211.89	702.43	669.58	32.85	21.383		
4,600.00	4,478.94	4,536.48	4,525.52	22.97	16.46	166.54	-216.33	-216.72	721.16	687.54	33.61	21.455		
4,700.00	4,575.59	4,634.70	4,623.42	23.54	16.83	166.62	-222.73	-221.56	739.88	705.50	34.37	21.524		
4,800.00	4,672.23	4,732.93	4,721.32	24.10	17.21	166.69	-229.13	-226.39	758.60	723.47	35.14	21.590		
4,900.00	4,768.87	4,831.16	4,819.22	24.67	17.59	166.76	-235.53	-231.22	777.33	741.43	35.90	21.653		

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 5-6-10
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 5-6-10	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	4,865.51	4,929.38	4,917.12	25.24	17.96	166.83	-241.93	-236.05	796.05	759.39	36.66	21.713		
5,100.00	4,962.15	5,027.61	5,015.02	25.80	18.34	166.89	-248.33	-240.88	814.78	777.36	37.42	21.771		
5,200.00	5,058.79	5,125.84	5,112.92	26.37	18.72	166.95	-254.74	-245.72	833.51	795.32	38.19	21.827		
5,300.00	5,155.43	5,224.06	5,210.81	26.93	19.09	167.01	-261.14	-250.55	852.24	813.29	38.95	21.880		
5,400.00	5,252.07	5,322.29	5,308.71	27.50	19.47	167.06	-267.54	-255.38	870.97	831.25	39.71	21.931		
5,500.00	5,348.72	5,420.52	5,406.61	28.07	19.85	167.12	-273.94	-260.21	889.70	849.22	40.48	21.980		
5,600.00	5,445.36	5,518.74	5,504.51	28.63	20.23	167.17	-280.34	-265.04	908.43	867.19	41.24	22.027		
5,700.00	5,542.00	5,616.97	5,602.41	29.20	20.60	167.21	-286.74	-269.88	927.16	885.16	42.00	22.073		
5,800.00	5,638.64	5,715.20	5,700.31	29.76	20.98	167.26	-293.15	-274.71	945.89	903.13	42.77	22.117		
5,900.00	5,735.28	5,813.43	5,798.21	30.33	21.36	167.31	-299.55	-279.54	964.63	921.09	43.53	22.159		
6,000.00	5,831.92	5,911.65	5,896.11	30.90	21.74	167.35	-305.95	-284.37	983.36	939.06	44.30	22.199		
6,100.00	5,928.56	6,009.88	5,994.01	31.46	22.11	167.39	-312.35	-289.20	1,002.09	957.03	45.06	22.239		
6,200.00	6,025.20	6,108.11	6,091.91	32.03	22.49	167.43	-318.75	-294.04	1,020.83	975.00	45.83	22.277		
6,300.00	6,121.85	6,206.33	6,189.80	32.60	22.87	167.47	-325.15	-298.87	1,039.56	992.97	46.59	22.313		
6,400.00	6,218.49	6,304.56	6,287.70	33.16	23.25	167.51	-331.55	-303.70	1,058.30	1,010.95	47.35	22.349		
6,500.00	6,315.13	6,402.79	6,385.60	33.73	23.62	167.54	-337.96	-308.53	1,077.04	1,028.92	48.12	22.383		
6,600.00	6,411.77	6,501.01	6,483.50	34.30	24.00	167.58	-344.36	-313.36	1,095.77	1,046.89	48.88	22.416		
6,700.00	6,508.41	6,599.24	6,581.40	34.86	24.38	167.61	-350.76	-318.19	1,114.51	1,064.86	49.65	22.448		
6,791.42	6,596.76	6,689.04	6,670.90	35.38	24.73	167.64	-356.61	-322.61	1,131.64	1,081.29	50.35	22.477		
6,800.00	6,605.05	6,702.53	6,679.30	35.43	24.78	167.65	-357.16	-323.03	1,133.23	1,082.80	50.43	22.471		
6,900.00	6,702.20	6,803.95	6,777.55	35.97	25.17	167.73	-363.59	-327.88	1,150.00	1,098.80	51.20	22.459		
7,000.00	6,800.11	6,895.14	6,876.31	36.47	25.52	167.76	-370.04	-332.75	1,163.40	1,111.47	51.93	22.402		
7,100.00	6,898.67	6,994.62	6,975.46	36.93	25.90	167.74	-376.53	-337.64	1,173.41	1,120.73	52.68	22.273		
7,200.00	6,997.75	7,094.38	7,074.89	37.34	26.29	167.67	-383.03	-342.55	1,180.03	1,126.60	53.43	22.087		
7,300.00	7,097.25	7,175.51	7,155.79	37.71	26.59	167.59	-387.87	-346.20	1,183.85	1,129.82	54.03	21.912		
7,400.00	7,197.04	7,250.64	7,230.82	38.04	26.87	167.55	-390.79	-348.41	1,186.29	1,131.74	54.55	21.747		
7,500.00	7,296.99	7,325.77	7,305.94	38.32	27.13	167.53	-392.14	-349.43	1,187.42	1,132.39	55.03	21.579		
7,536.02	7,333.00	7,352.84	7,333.00	38.41	27.22	0.00	-392.25	-349.51	1,187.51	1,132.32	55.18	21.519		
7,566.02	7,363.00	7,382.84	7,363.00	38.47	27.32	0.00	-392.25	-349.51	1,187.51	1,132.14	55.37	21.448		
7,600.00	7,396.96	7,416.52	7,396.66	38.55	27.43	89.75	-392.24	-350.50	1,187.51	1,131.92	55.59	21.363		
7,650.00	7,446.68	7,466.08	7,445.95	38.68	27.61	89.76	-392.22	-355.54	1,187.50	1,131.57	55.94	21.230		
7,700.00	7,495.77	7,515.64	7,494.62	38.82	27.81	89.76	-392.18	-364.83	1,187.50	1,131.20	56.30	21.091		
7,750.00	7,543.84	7,565.21	7,542.31	38.97	28.01	89.77	-392.12	-378.29	1,187.50	1,130.81	56.69	20.946		
7,800.00	7,590.54	7,614.79	7,588.67	39.12	28.22	89.77	-392.04	-395.82	1,187.50	1,130.40	57.10	20.795		
7,850.00	7,635.50	7,664.39	7,633.36	39.27	28.44	89.78	-391.95	-417.30	1,187.50	1,129.96	57.54	20.637		
7,900.00	7,678.39	7,714.01	7,676.04	39.44	28.67	89.79	-391.84	-442.58	1,187.50	1,129.50	58.01	20.472		
7,950.00	7,718.88	7,763.65	7,716.39	39.60	28.91	89.81	-391.71	-471.46	1,187.50	1,128.99	58.51	20.296		
8,000.00	7,756.67	7,813.31	7,754.11	39.78	29.17	89.82	-391.57	-503.74	1,187.50	1,128.44	59.06	20.107		
8,050.00	7,791.45	7,863.00	7,788.90	39.96	29.46	89.84	-391.42	-539.19	1,187.50	1,127.84	59.66	19.904		
8,100.00	7,822.98	7,912.71	7,820.52	40.15	29.77	89.85	-391.25	-577.53	1,187.50	1,127.17	60.33	19.684		
8,150.00	7,851.01	7,962.46	7,848.71	40.35	30.12	89.87	-391.07	-618.50	1,187.50	1,126.43	61.07	19.445		
8,200.00	7,875.32	8,012.24	7,873.25	40.57	30.51	89.89	-390.88	-661.79	1,187.50	1,125.61	61.89	19.187		
8,206.38	7,878.15	8,018.59	7,876.11	40.60	30.56	89.89	-390.86	-667.47	1,187.50	1,125.50	62.01	19.151		
8,250.00	7,895.74	8,062.05	7,893.96	40.81	30.94	89.91	-390.68	-707.08	1,187.50	1,124.70	62.80	18.909		
8,300.00	7,912.10	8,111.90	7,910.67	41.06	31.41	89.93	-390.48	-754.03	1,187.50	1,123.70	63.80	18.612		
8,350.00	7,924.28	8,161.79	7,923.25	41.34	31.94	89.95	-390.27	-802.29	1,187.50	1,122.61	64.89	18.300		
8,400.00	7,932.19	8,211.71	7,931.58	41.65	32.51	89.97	-390.05	-851.50	1,187.50	1,121.44	66.06	17.976		
8,450.00	7,935.77	8,261.68	7,935.61	41.99	33.11	89.99	-389.83	-901.28	1,187.50	1,120.20	67.30	17.645		
8,466.09	7,936.00	8,277.77	7,935.98	42.10	33.31	89.99	-389.76	-917.37	1,187.50	1,119.79	67.71	17.538		
8,500.00	7,936.00	8,311.67	7,936.00	42.35	33.76	90.00	-389.62	-951.27	1,187.50	1,118.89	68.61	17.308		
8,600.00	7,936.00	8,411.67	7,936.00	43.20	35.16	90.00	-389.18	-1,051.27	1,187.51	1,116.05	71.45	16.619		
8,700.00	7,936.00	8,511.67	7,936.00	44.20	36.71	90.00	-388.74	-1,151.27	1,187.51	1,112.93	74.58	15.923		

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 5-6-10
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 5-6-10	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 5-6-7 - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error:		0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis		Distance								Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
8,800.00	7,935.99	8,611.67	7,936.00	45.35	38.39	90.00	-388.31	-1,251.27	1,187.51	1,109.56	77.95	15.234						
8,900.00	7,935.99	8,711.67	7,935.99	46.65	40.18	90.00	-387.87	-1,351.27	1,187.51	1,105.97	81.54	14.564						
9,000.00	7,935.99	8,811.67	7,935.99	48.10	42.07	90.00	-387.43	-1,451.27	1,187.51	1,102.20	85.31	13.919						
9,100.00	7,935.99	8,911.67	7,935.99	49.67	44.05	90.00	-386.99	-1,551.27	1,187.51	1,098.26	89.25	13.305						
9,200.00	7,935.99	9,011.67	7,935.99	51.37	46.09	90.00	-386.56	-1,651.27	1,187.52	1,094.18	93.34	12.722						
9,300.00	7,935.99	9,111.67	7,935.99	53.16	48.21	90.00	-386.12	-1,751.27	1,187.52	1,089.97	97.55	12.173						
9,400.00	7,935.98	9,211.67	7,935.99	55.05	50.37	90.00	-385.68	-1,851.27	1,187.52	1,085.65	101.87	11.657						
9,500.00	7,935.98	9,311.67	7,935.99	57.02	52.59	90.00	-385.25	-1,951.26	1,187.52	1,081.23	106.29	11.172						
9,600.00	7,935.98	9,411.67	7,935.98	59.06	54.85	90.00	-384.81	-2,051.26	1,187.52	1,076.73	110.80	10.718						
9,700.00	7,935.98	9,511.67	7,935.98	61.16	57.14	90.00	-384.37	-2,151.26	1,187.52	1,072.15	115.38	10.293						
9,800.00	7,935.98	9,611.67	7,935.98	63.31	59.47	90.00	-383.94	-2,251.26	1,187.53	1,067.50	120.02	9.894						
9,900.00	7,935.97	9,711.67	7,935.98	65.50	61.83	90.00	-383.50	-2,351.26	1,187.53	1,062.80	124.73	9.521						
10,000.00	7,935.97	9,811.67	7,935.98	67.74	64.22	90.00	-383.06	-2,451.26	1,187.53	1,058.04	129.49	9.171						
10,100.00	7,935.97	9,911.67	7,935.98	70.02	66.63	90.00	-382.63	-2,551.26	1,187.53	1,053.24	134.29	8.843						
10,200.00	7,935.97	10,011.67	7,935.97	72.32	69.06	90.00	-382.19	-2,651.26	1,187.53	1,048.40	139.14	8.535						
10,300.00	7,935.97	10,111.67	7,935.97	74.66	71.50	90.00	-381.75	-2,751.26	1,187.54	1,043.51	144.02	8.245						
10,400.00	7,935.97	10,211.67	7,935.97	77.02	73.97	90.00	-381.31	-2,851.26	1,187.54	1,038.59	148.94	7.973						
10,500.00	7,935.96	10,311.67	7,935.97	79.41	76.45	90.00	-380.88	-2,951.25	1,187.54	1,033.64	153.89	7.717						
10,600.00	7,935.96	10,411.67	7,935.97	81.81	78.94	90.00	-380.44	-3,051.25	1,187.54	1,028.67	158.87	7.475						
10,700.00	7,935.96	10,511.67	7,935.97	84.24	81.45	90.00	-380.00	-3,151.25	1,187.54	1,023.66	163.88	7.247						
10,800.00	7,935.96	10,611.67	7,935.97	86.68	83.97	90.00	-379.57	-3,251.25	1,187.54	1,018.64	168.91	7.031						
10,900.00	7,935.96	10,711.67	7,935.96	89.14	86.50	90.00	-379.13	-3,351.25	1,187.55	1,013.59	173.95	6.827						
11,000.00	7,935.95	10,811.67	7,935.96	91.61	89.03	90.00	-378.69	-3,451.25	1,187.55	1,008.52	179.02	6.633						
11,100.00	7,935.95	10,911.67	7,935.96	94.10	91.58	90.00	-378.26	-3,551.25	1,187.55	1,003.44	184.11	6.450						
11,200.00	7,935.95	11,011.67	7,935.96	96.59	94.14	90.00	-377.82	-3,651.25	1,187.55	998.34	189.21	6.276						
11,300.00	7,935.95	11,111.67	7,935.96	99.10	96.70	90.00	-377.38	-3,751.25	1,187.55	993.22	194.33	6.111						
11,400.00	7,935.95	11,211.67	7,935.96	101.62	99.27	90.00	-376.95	-3,851.25	1,187.55	988.09	199.46	5.954						
11,500.00	7,935.95	11,311.67	7,935.96	104.15	101.84	90.00	-376.51	-3,951.25	1,187.56	982.95	204.61	5.804						
11,600.00	7,935.94	11,411.67	7,935.95	106.68	104.42	90.00	-376.07	-4,051.24	1,187.56	977.79	209.76	5.661						
11,700.00	7,935.94	11,511.67	7,935.95	109.23	107.01	90.00	-375.63	-4,151.24	1,187.56	972.63	214.93	5.525						
11,800.00	7,935.94	11,611.67	7,935.95	111.78	109.60	90.00	-375.20	-4,251.24	1,187.56	967.45	220.11	5.395						
11,900.00	7,935.94	11,711.67	7,935.95	114.33	112.19	90.00	-374.76	-4,351.24	1,187.56	962.27	225.30	5.271						
12,000.00	7,935.94	11,811.67	7,935.95	116.90	114.79	90.00	-374.32	-4,451.24	1,187.56	957.07	230.49	5.152						
12,100.00	7,935.93	11,911.67	7,935.95	119.47	117.40	90.00	-373.89	-4,551.24	1,187.57	951.87	235.70	5.038						
12,200.00	7,935.93	12,011.67	7,935.95	122.04	120.01	90.00	-373.45	-4,651.24	1,187.57	946.66	240.91	4.929						
12,300.00	7,935.93	12,111.67	7,935.94	124.63	122.62	90.00	-373.01	-4,751.24	1,187.57	941.44	246.13	4.825						
12,400.00	7,935.93	12,211.67	7,935.94	127.21	125.23	90.00	-372.58	-4,851.24	1,187.57	936.21	251.36	4.725						
12,500.00	7,935.93	12,311.67	7,935.94	129.80	127.85	90.00	-372.14	-4,951.24	1,187.57	930.98	256.59	4.628						
12,600.00	7,935.93	12,411.67	7,935.94	132.40	130.47	90.00	-371.70	-5,051.23	1,187.57	925.74	261.83	4.536						
12,700.00	7,935.92	12,511.67	7,935.94	135.00	133.10	90.00	-371.27	-5,151.23	1,187.58	920.50	267.08	4.447						
12,800.00	7,935.92	12,611.67	7,935.94	137.60	135.72	90.00	-370.83	-5,251.23	1,187.58	915.25	272.33	4.361						
12,900.00	7,935.92	12,711.67	7,935.94	140.20	138.35	90.00	-370.39	-5,351.23	1,187.58	910.00	277.58	4.278						
13,000.00	7,935.92	12,811.67	7,935.93	142.81	140.98	90.00	-369.95	-5,451.23	1,187.58	904.74	282.84	4.199						
13,100.00	7,935.92	12,911.67	7,935.93	145.43	143.61	90.00	-369.52	-5,551.23	1,187.58	899.47	288.11	4.122						
13,200.00	7,935.91	13,011.67	7,935.93	148.04	146.25	90.00	-369.08	-5,651.23	1,187.58	894.21	293.38	4.048						
13,300.00	7,935.91	13,111.67	7,935.93	150.66	148.89	90.00	-368.64	-5,751.23	1,187.59	888.94	298.65	3.976						
13,400.00	7,935.91	13,211.67	7,935.93	153.28	151.53	90.00	-368.21	-5,851.23	1,187.59	883.66	303.93	3.907						
13,500.00	7,935.91	13,311.67	7,935.93	155.90	154.17	90.00	-367.77	-5,951.23	1,187.59	878.38	309.21	3.841						
13,600.00	7,935.91	13,411.67	7,935.93	158.53	156.81	90.00	-367.33	-6,051.23	1,187.59	873.10	314.49	3.776						
13,700.00	7,935.91	13,511.67	7,935.92	161.16	159.45	90.00	-366.90	-6,151.22	1,187.59	867.81	319.78	3.714						
13,800.00	7,935.90	13,611.67	7,935.92	163.79	162.10	90.00	-366.46	-6,251.22	1,187.59	862.52	325.07	3.653						
13,900.00	7,935.90	13,711.67	7,935.92	166.42	164.75	90.00	-366.02	-6,351.22	1,187.60	857.23	330.37	3.595						

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 5-6-10
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 5-6-10	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	7,935.90	13,811.67	7,935.92	169.05	167.39	90.00	-365.59	-6,451.22	1,187.60	851.94	335.66	3.538		
14,100.00	7,935.90	13,911.67	7,935.92	171.69	170.04	90.00	-365.15	-6,551.22	1,187.60	846.64	340.96	3.483		
14,200.00	7,935.90	14,011.67	7,935.92	174.33	172.69	90.00	-364.71	-6,651.22	1,187.60	841.34	346.26	3.430		
14,300.00	7,935.89	14,111.67	7,935.92	176.97	175.35	90.00	-364.27	-6,751.22	1,187.60	836.04	351.57	3.378		
14,400.00	7,935.89	14,211.67	7,935.91	179.61	178.00	90.00	-363.84	-6,851.22	1,187.61	830.73	356.87	3.328		
14,500.00	7,935.89	14,311.67	7,935.91	182.25	180.65	90.00	-363.40	-6,951.22	1,187.61	825.42	362.18	3.279		
14,600.00	7,935.89	14,411.67	7,935.91	184.90	183.31	90.00	-362.96	-7,051.22	1,187.61	820.11	367.49	3.232		
14,700.00	7,935.89	14,511.67	7,935.91	187.54	185.97	90.00	-362.53	-7,151.21	1,187.61	814.80	372.81	3.186		
14,800.00	7,935.89	14,611.67	7,935.91	190.19	188.62	90.00	-362.09	-7,251.21	1,187.61	809.49	378.12	3.141		
14,900.00	7,935.88	14,711.67	7,935.91	192.84	191.28	90.00	-361.65	-7,351.21	1,187.61	804.17	383.44	3.097		
15,000.00	7,935.88	14,811.67	7,935.90	195.49	193.94	90.00	-361.22	-7,451.21	1,187.62	798.86	388.76	3.055		
15,100.00	7,935.88	14,911.67	7,935.90	198.14	196.60	90.00	-360.78	-7,551.21	1,187.62	793.54	394.08	3.014		
15,200.00	7,935.88	15,011.67	7,935.90	200.79	199.26	90.00	-360.34	-7,651.21	1,187.62	788.22	399.40	2.974		
15,300.00	7,935.88	15,111.67	7,935.90	203.44	201.92	90.00	-359.91	-7,751.21	1,187.62	782.90	404.72	2.934		
15,400.00	7,935.87	15,211.67	7,935.90	206.10	204.58	90.00	-359.47	-7,851.21	1,187.62	777.57	410.05	2.896		
15,500.00	7,935.87	15,311.67	7,935.90	208.75	207.25	90.00	-359.03	-7,951.21	1,187.62	772.25	415.38	2.859		
15,600.00	7,935.87	15,411.67	7,935.90	211.41	209.91	90.00	-358.60	-8,051.21	1,187.63	766.92	420.71	2.823		
15,700.00	7,935.87	15,511.67	7,935.89	214.07	212.57	90.00	-358.16	-8,151.21	1,187.63	761.59	426.03	2.788		
15,800.00	7,935.87	15,611.67	7,935.89	216.72	215.24	90.00	-357.72	-8,251.20	1,187.63	756.26	431.37	2.753		
15,900.00	7,935.87	15,711.67	7,935.89	219.38	217.91	90.00	-357.28	-8,351.20	1,187.63	750.93	436.70	2.720		
16,000.00	7,935.86	15,811.67	7,935.89	222.04	220.57	90.00	-356.85	-8,451.20	1,187.63	745.60	442.03	2.687		
16,100.00	7,935.86	15,911.67	7,935.89	224.70	223.24	90.00	-356.41	-8,551.20	1,187.63	740.27	447.37	2.655		
16,200.00	7,935.86	16,011.67	7,935.89	227.37	225.90	90.00	-355.97	-8,651.20	1,187.64	734.93	452.70	2.623		
16,300.00	7,935.86	16,111.67	7,935.89	230.03	228.57	90.00	-355.54	-8,751.20	1,187.64	729.60	458.04	2.593		
16,400.00	7,935.86	16,211.67	7,935.88	232.69	231.24	90.00	-355.10	-8,851.20	1,187.64	724.26	463.38	2.563		
16,500.00	7,935.85	16,311.67	7,935.88	235.35	233.91	90.00	-354.66	-8,951.20	1,187.64	718.93	468.72	2.534		
16,600.00	7,935.85	16,411.67	7,935.88	238.02	236.58	90.00	-354.23	-9,051.20	1,187.64	713.59	474.06	2.505		
16,700.00	7,935.85	16,511.67	7,935.88	240.68	239.25	90.00	-353.79	-9,151.20	1,187.64	708.25	479.40	2.477		
16,800.00	7,935.85	16,611.67	7,935.88	243.35	241.92	90.00	-353.35	-9,251.19	1,187.65	702.91	484.74	2.450		
16,900.00	7,935.85	16,711.67	7,935.88	246.01	244.59	90.00	-352.92	-9,351.19	1,187.65	697.57	490.08	2.423		
17,000.00	7,935.85	16,811.67	7,935.88	248.68	247.26	90.00	-352.48	-9,451.19	1,187.65	692.22	495.43	2.397		
17,100.00	7,935.84	16,911.67	7,935.87	251.35	249.93	90.00	-352.04	-9,551.19	1,187.65	686.88	500.77	2.372		
17,200.00	7,935.84	17,011.67	7,935.87	254.02	252.60	90.00	-351.60	-9,651.19	1,187.65	681.54	506.12	2.347		
17,300.00	7,935.84	17,111.67	7,935.87	256.69	255.28	90.00	-351.17	-9,751.19	1,187.65	676.19	511.46	2.322		
17,400.00	7,935.84	17,211.67	7,935.87	259.35	257.95	90.00	-350.73	-9,851.19	1,187.66	670.85	516.81	2.298		
17,500.00	7,935.84	17,311.67	7,935.87	262.02	260.62	90.00	-350.29	-9,951.19	1,187.66	665.50	522.16	2.275		
17,600.00	7,935.83	17,411.67	7,935.87	264.69	263.29	90.00	-349.86	-10,051.19	1,187.66	660.16	527.50	2.251		
17,700.00	7,935.83	17,511.67	7,935.87	267.36	265.97	90.00	-349.42	-10,151.19	1,187.66	654.81	532.85	2.229		
17,800.00	7,935.83	17,611.67	7,935.86	270.03	268.64	90.00	-348.98	-10,251.19	1,187.66	649.46	538.20	2.207		
17,900.00	7,935.83	17,711.67	7,935.86	272.71	271.32	90.00	-348.55	-10,351.18	1,187.67	644.11	543.55	2.185		
18,000.00	7,935.83	17,811.67	7,935.86	275.38	273.99	90.00	-348.11	-10,451.18	1,187.67	638.76	548.90	2.164		
18,100.00	7,935.83	17,911.89	7,935.88	278.05	276.67	90.00	-347.67	-10,551.39	1,187.67	633.40	554.26	2.143		
18,153.00	7,936.00	17,964.88	7,935.99	279.47	278.09	90.00	-347.45	-10,604.39	1,187.51	630.41	557.10	2.132 SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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	-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	599.98	600.02	599.98	1.91	1.93	80.23	0.00	-36.56	36.23	32.39	3.84	9.442		
700.00	699.84	700.16	699.84	2.25	2.29	88.53	0.00	-36.56	35.71	31.18	4.53	7.883		
712.79	712.59	712.59	712.59	2.29	2.33	90.00	0.00	-36.56	35.70	31.08	4.62	7.728 CC, ES		
800.00	799.45	800.55	799.45	2.59	2.65	102.25	0.00	-36.56	36.54	31.30	5.24	6.975		
900.00	898.70	898.70	898.70	2.96	3.00	119.00	0.00	-36.56	40.91	34.96	5.95	6.871		
1,000.00	997.47	998.44	998.42	3.35	3.34	133.05	-1.57	-37.19	49.47	42.81	6.66	7.425		
1,100.00	1,095.62	1,098.66	1,098.50	3.77	3.67	142.21	-6.40	-39.10	60.47	53.11	7.36	8.214		
1,200.00	1,193.06	1,199.36	1,198.81	4.22	4.01	148.09	-14.53	-42.32	72.85	64.78	8.07	9.027		
1,244.60	1,236.24	1,244.42	1,243.59	4.43	4.17	149.99	-19.22	-44.18	78.65	70.26	8.39	9.372		
1,300.00	1,289.78	1,300.61	1,299.30	4.71	4.37	151.80	-26.00	-46.87	85.56	76.77	8.79	9.734		
1,400.00	1,386.43	1,399.93	1,397.64	5.21	4.73	153.99	-38.97	-52.02	97.30	87.78	9.53	10.215		
1,500.00	1,483.07	1,499.18	1,495.91	5.73	5.11	155.71	-51.94	-57.16	109.15	98.89	10.27	10.631		
1,600.00	1,579.71	1,601.57	1,594.17	6.25	5.50	157.09	-64.90	-62.30	121.08	110.06	11.03	10.980		
1,700.00	1,676.35	1,702.32	1,692.43	6.78	5.90	158.22	-77.87	-67.44	133.07	121.28	11.79	11.291		
1,800.00	1,772.99	1,803.08	1,790.69	7.32	6.30	159.16	-90.83	-72.58	145.10	132.55	12.55	11.564		
1,900.00	1,869.63	1,903.83	1,888.96	7.86	6.70	159.96	-103.80	-77.72	157.16	143.85	13.31	11.806		
2,000.00	1,966.27	1,995.42	1,987.22	8.41	7.07	160.65	-116.76	-82.86	169.25	155.20	14.05	12.050		
2,100.00	2,062.91	2,105.33	2,085.48	8.96	7.52	161.24	-129.73	-88.00	181.36	166.51	14.85	12.214		
2,200.00	2,159.55	2,206.08	2,183.75	9.51	7.94	161.76	-142.70	-93.15	193.48	177.86	15.62	12.387		
2,300.00	2,256.20	2,306.84	2,282.01	10.06	8.36	162.22	-155.66	-98.29	205.62	189.23	16.39	12.544		
2,400.00	2,352.84	2,407.59	2,380.27	10.61	8.77	162.62	-168.63	-103.43	217.77	200.61	17.17	12.686		
2,500.00	2,449.48	2,508.34	2,478.53	11.17	9.19	162.99	-181.59	-108.57	229.93	211.99	17.94	12.816		
2,600.00	2,546.12	2,609.09	2,576.80	11.72	9.62	163.31	-194.56	-113.71	242.10	223.38	18.72	12.935		
2,700.00	2,642.76	2,709.85	2,675.06	12.28	10.04	163.61	-207.53	-118.85	254.28	234.78	19.49	13.044		
2,800.00	2,739.40	2,789.40	2,773.32	12.84	10.38	163.88	-220.49	-123.99	266.46	246.26	20.19	13.196		
2,900.00	2,836.04	2,888.65	2,871.59	13.40	10.79	164.13	-233.46	-129.14	278.64	257.68	20.97	13.291		
3,000.00	2,932.68	2,987.90	2,968.85	13.96	11.21	164.35	-246.42	-134.28	290.83	269.10	21.74	13.379		
3,100.00	3,029.33	3,087.15	3,068.11	14.52	11.63	164.56	-259.39	-139.42	303.03	280.52	22.51	13.460		
3,200.00	3,125.97	3,186.39	3,166.37	15.08	12.06	164.75	-272.36	-144.56	315.23	291.94	23.29	13.536		
3,300.00	3,222.61	3,285.64	3,264.64	15.64	12.48	164.92	-285.32	-149.70	327.43	303.37	24.06	13.608		
3,400.00	3,319.25	3,384.89	3,362.90	16.21	12.90	165.09	-298.29	-154.84	339.64	314.80	24.84	13.674		
3,500.00	3,415.89	3,484.14	3,461.16	16.77	13.32	165.24	-311.25	-159.98	351.84	326.23	25.61	13.736		
3,600.00	3,512.53	3,583.39	3,559.43	17.33	13.75	165.38	-324.22	-165.12	364.05	337.66	26.39	13.795		
3,700.00	3,609.17	3,682.63	3,657.69	17.89	14.17	165.52	-337.19	-170.27	376.27	349.10	27.17	13.850		
3,800.00	3,705.81	3,781.88	3,755.95	18.46	14.59	165.64	-350.15	-175.41	388.48	360.54	27.94	13.902		
3,900.00	3,802.46	3,881.13	3,854.21	19.02	15.02	165.76	-363.12	-180.55	400.70	371.97	28.72	13.951		
4,000.00	3,899.10	3,980.38	3,952.48	19.59	15.44	165.87	-376.08	-185.69	412.91	383.41	29.50	13.998		
4,100.00	3,995.74	4,079.63	4,050.74	20.15	15.87	165.97	-389.05	-190.83	425.13	394.85	30.28	14.042		
4,200.00	4,092.38	4,178.87	4,149.00	20.71	16.29	166.07	-402.01	-195.97	437.35	406.30	31.05	14.083		
4,300.00	4,189.02	4,278.12	4,247.27	21.28	16.72	166.16	-414.98	-201.11	449.57	417.74	31.83	14.123		
4,400.00	4,285.66	4,377.37	4,345.53	21.84	17.15	166.25	-427.95	-206.26	461.79	429.18	32.61	14.161		
4,500.00	4,382.30	4,476.62	4,443.79	22.41	17.57	166.33	-440.91	-211.40	474.02	440.63	33.39	14.197		
4,600.00	4,478.94	4,575.86	4,542.05	22.97	18.00	166.41	-453.88	-216.54	486.24	452.07	34.17	14.231		
4,700.00	4,575.59	4,675.11	4,640.32	23.54	18.43	166.49	-466.84	-221.68	498.47	463.52	34.95	14.263		
4,800.00	4,672.23	4,774.36	4,738.58	24.10	18.85	166.56	-479.81	-226.82	510.69	474.96	35.73	14.295		
4,900.00	4,768.87	4,873.61	4,836.84	24.67	19.28	166.63	-492.78	-231.96	522.92	486.41	36.51	14.324		

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 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,865.51	4,972.86	4,935.11	25.24	19.71	166.69	-505.74	-237.10	535.14	497.86	37.29	14.353		
5,100.00	4,962.15	5,072.10	5,033.37	25.80	20.13	166.76	-518.71	-242.25	547.37	509.31	38.06	14.380		
5,200.00	5,058.79	5,171.35	5,131.63	26.37	20.56	166.82	-531.67	-247.39	559.60	520.76	38.84	14.406		
5,300.00	5,155.43	5,270.60	5,229.89	26.93	20.99	166.87	-544.64	-252.53	571.83	532.21	39.62	14.431		
5,400.00	5,252.07	5,369.85	5,328.16	27.50	21.42	166.93	-557.61	-257.67	584.06	543.66	40.40	14.456		
5,500.00	5,348.72	5,469.10	5,426.42	28.07	21.84	166.98	-570.57	-262.81	596.29	555.11	41.18	14.479		
5,600.00	5,445.36	5,568.34	5,524.68	28.63	22.27	167.03	-583.54	-267.95	608.52	566.56	41.96	14.501		
5,700.00	5,542.00	5,667.59	5,622.95	29.20	22.70	167.08	-596.50	-273.09	620.75	578.01	42.74	14.523		
5,800.00	5,638.64	5,766.84	5,721.21	29.76	23.13	167.12	-609.47	-278.23	632.98	589.46	43.52	14.543		
5,900.00	5,735.28	5,866.09	5,819.47	30.33	23.56	167.17	-622.43	-283.38	645.21	600.91	44.30	14.563		
6,000.00	5,831.92	5,965.33	5,917.74	30.90	23.98	167.21	-635.40	-288.52	657.45	612.36	45.08	14.582		
6,100.00	5,928.56	6,064.58	6,016.00	31.46	24.41	167.25	-648.37	-293.66	669.68	623.81	45.87	14.601		
6,200.00	6,025.20	6,163.83	6,114.26	32.03	24.84	167.29	-661.33	-298.80	681.91	635.27	46.65	14.619		
6,300.00	6,121.85	6,263.08	6,212.52	32.60	25.27	167.33	-674.30	-303.94	694.14	646.72	47.43	14.636		
6,400.00	6,218.49	6,362.33	6,310.79	33.16	25.70	167.37	-687.26	-309.08	706.38	658.17	48.21	14.653		
6,500.00	6,315.13	6,461.57	6,409.05	33.73	26.13	167.40	-700.23	-314.22	718.61	669.62	48.99	14.669		
6,600.00	6,411.77	6,560.82	6,507.31	34.30	26.55	167.44	-713.20	-319.37	730.85	681.08	49.77	14.685		
6,700.00	6,508.41	6,660.07	6,605.58	34.86	26.98	167.47	-726.16	-324.51	743.08	692.53	50.55	14.700		
6,791.42	6,596.76	6,750.80	6,695.41	35.38	27.37	167.50	-738.02	-329.21	754.26	703.00	51.26	14.713		
6,800.00	6,605.05	6,759.32	6,703.84	35.43	27.41	167.51	-739.13	-329.65	755.30	703.97	51.33	14.714		
6,900.00	6,702.20	6,858.79	6,802.32	35.97	27.84	167.55	-752.12	-334.80	765.55	713.44	52.11	14.691		
7,000.00	6,800.11	6,954.96	6,897.54	36.47	28.25	167.53	-764.65	-339.77	772.45	719.59	52.86	14.612		
7,100.00	6,898.67	7,034.74	6,976.73	36.93	28.58	167.50	-773.69	-343.35	777.66	724.18	53.48	14.541		
7,200.00	6,997.75	7,114.47	7,056.10	37.34	28.90	167.49	-780.66	-346.12	782.05	728.00	54.05	14.470		
7,300.00	7,097.25	7,194.14	7,135.59	37.71	29.19	167.49	-785.58	-348.07	785.62	731.06	54.57	14.398		
7,400.00	7,197.04	7,273.77	7,215.16	38.04	29.47	167.50	-788.44	-349.20	788.37	733.34	55.03	14.326		
7,500.00	7,296.99	7,355.60	7,296.99	38.32	29.72	167.52	-789.25	-349.52	790.28	734.81	55.47	14.247		
7,536.02	7,333.00	7,391.51	7,332.89	38.41	29.83	-0.02	-789.25	-349.77	790.50	734.81	55.70	14.193		
7,566.02	7,363.00	7,421.24	7,362.57	38.47	29.92	-0.14	-789.24	-351.42	790.51	734.61	55.90	14.142		
7,600.00	7,396.96	7,454.72	7,395.85	38.55	30.03	89.42	-789.23	-355.11	790.53	734.39	56.14	14.081		
7,650.00	7,446.68	7,503.71	7,444.00	38.68	30.20	89.13	-789.19	-364.00	790.58	734.07	56.51	13.989		
7,700.00	7,495.77	7,552.37	7,490.92	38.82	30.38	88.85	-789.13	-376.87	790.65	733.75	56.90	13.895		
7,750.00	7,543.84	7,600.73	7,536.29	38.97	30.57	88.58	-789.06	-393.56	790.73	733.44	57.30	13.801		
7,800.00	7,590.54	7,648.81	7,579.85	39.12	30.76	88.32	-788.97	-413.88	790.83	733.12	57.71	13.704		
7,850.00	7,635.50	7,696.61	7,621.31	39.27	30.95	88.07	-788.87	-437.64	790.94	732.80	58.14	13.605		
7,900.00	7,678.39	7,744.16	7,660.46	39.44	31.16	87.84	-788.76	-464.61	791.05	732.46	58.59	13.502		
7,950.00	7,718.88	7,791.48	7,697.06	39.60	31.37	87.62	-788.63	-494.59	791.17	732.10	59.07	13.394		
8,000.00	7,756.67	7,838.60	7,730.91	39.78	31.59	87.42	-788.49	-527.33	791.28	731.70	59.58	13.281		
8,050.00	7,791.45	7,885.52	7,761.85	39.96	31.82	87.24	-788.34	-562.59	791.40	731.25	60.14	13.159		
8,100.00	7,822.98	7,932.27	7,789.70	40.15	32.08	87.08	-788.18	-600.13	791.50	730.75	60.75	13.028		
8,150.00	7,851.01	7,978.88	7,814.33	40.35	32.36	86.95	-788.01	-639.68	791.60	730.17	61.43	12.887		
8,200.00	7,875.32	8,025.37	7,835.61	40.57	32.66	86.83	-787.83	-681.00	791.68	729.51	62.17	12.734		
8,250.00	7,895.74	8,071.75	7,853.44	40.81	33.00	86.73	-787.65	-723.80	791.75	728.76	62.99	12.569		
8,300.00	7,912.10	8,118.05	7,867.73	41.06	33.37	86.66	-787.46	-767.83	791.81	727.92	63.89	12.394		
8,350.00	7,924.28	8,164.30	7,878.40	41.34	33.78	86.62	-787.26	-812.82	791.84	726.98	64.86	12.209		
8,400.00	7,932.19	8,210.51	7,885.41	41.65	34.24	86.59	-787.07	-858.48	791.86	725.95	65.91	12.015		
8,450.00	7,935.77	8,256.72	7,888.72	41.99	34.73	86.59	-786.87	-904.55	791.86	724.84	67.02	11.815		
8,466.09	7,936.00	8,271.59	7,888.99	42.10	34.89	86.60	-786.81	-919.42	791.85	724.46	67.39	11.750		
8,500.00	7,936.00	8,305.24	7,889.00	42.35	35.28	86.60	-786.66	-953.07	791.85	723.57	68.28	11.598		
8,600.00	7,936.00	8,405.24	7,889.00	43.20	36.55	86.60	-786.23	-1,053.07	791.84	720.74	71.10	11.136		
8,700.00	7,936.00	8,505.24	7,889.00	44.20	37.99	86.60	-785.81	-1,153.07	791.84	717.61	74.22	10.669		
8,800.00	7,935.99	8,605.24	7,889.00	45.35	39.58	86.60	-785.38	-1,253.07	791.83	714.24	77.59	10.206		

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 5-6-10
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 5-6-10	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
8,900.00	7,935.99	8,705.23	7,888.99	46.65	41.29	86.60	-784.95	-1,353.07	791.82	710.66	81.17	9.755		
9,000.00	7,935.99	8,805.23	7,888.99	48.10	43.11	86.60	-784.52	-1,453.06	791.82	706.88	84.94	9.322		
9,100.00	7,935.99	8,905.23	7,888.99	49.67	45.02	86.60	-784.09	-1,553.06	791.81	702.94	88.87	8.909		
9,200.00	7,935.99	9,005.23	7,888.99	51.37	47.01	86.60	-783.66	-1,653.06	791.81	698.85	92.95	8.518		
9,300.00	7,935.99	9,105.23	7,888.99	53.16	49.08	86.60	-783.23	-1,753.06	791.80	694.64	97.16	8.149		
9,400.00	7,935.98	9,205.23	7,888.99	55.05	51.20	86.60	-782.80	-1,853.05	791.80	690.32	101.48	7.803		
9,500.00	7,935.98	9,305.23	7,888.99	57.02	53.38	86.60	-782.37	-1,953.05	791.79	685.90	105.89	7.477		
9,600.00	7,935.98	9,405.22	7,888.99	59.06	55.60	86.60	-781.94	-2,053.05	791.79	681.40	110.39	7.173		
9,700.00	7,935.98	9,505.22	7,888.99	61.16	57.87	86.60	-781.51	-2,153.05	791.78	676.82	114.96	6.887		
9,800.00	7,935.98	9,605.22	7,888.99	63.31	60.17	86.60	-781.08	-2,253.04	791.78	672.17	119.60	6.620		
9,900.00	7,935.97	9,705.22	7,888.98	65.50	62.50	86.60	-780.65	-2,353.04	791.77	667.47	124.30	6.370		
10,000.00	7,935.97	9,805.22	7,888.98	67.74	64.87	86.60	-780.22	-2,453.04	791.77	662.71	129.06	6.135		
10,100.00	7,935.97	9,905.22	7,888.98	70.02	67.25	86.60	-779.78	-2,553.04	791.76	657.91	133.86	5.915		
10,200.00	7,935.97	10,005.22	7,888.98	72.32	69.66	86.60	-779.35	-2,653.04	791.76	653.06	138.70	5.709		
10,300.00	7,935.97	10,105.22	7,888.98	74.66	72.09	86.60	-778.92	-2,753.03	791.76	648.18	143.58	5.515		
10,400.00	7,935.97	10,205.21	7,888.98	77.02	74.54	86.60	-778.49	-2,853.03	791.75	643.26	148.49	5.332		
10,500.00	7,935.96	10,305.21	7,888.98	79.41	77.00	86.60	-778.06	-2,953.03	791.75	638.31	153.44	5.160		
10,600.00	7,935.96	10,405.21	7,888.98	81.81	79.48	86.60	-777.63	-3,053.03	791.75	633.34	158.41	4.998		
10,700.00	7,935.96	10,505.21	7,888.98	84.24	81.97	86.60	-777.19	-3,153.02	791.74	628.34	163.41	4.845		
10,800.00	7,935.96	10,605.21	7,888.98	86.68	84.48	86.60	-776.76	-3,253.02	791.74	623.31	168.43	4.701		
10,900.00	7,935.96	10,705.21	7,888.98	89.14	87.00	86.60	-776.33	-3,353.02	791.74	618.27	173.47	4.564		
11,000.00	7,935.95	10,805.21	7,888.98	91.61	89.52	86.60	-775.90	-3,453.02	791.74	613.20	178.53	4.435		
11,100.00	7,935.95	10,905.21	7,888.98	94.10	92.06	86.60	-775.46	-3,553.02	791.73	608.12	183.61	4.312		
11,200.00	7,935.95	11,005.20	7,888.97	96.59	94.60	86.60	-775.03	-3,653.01	791.73	603.02	188.71	4.196		
11,300.00	7,935.95	11,105.20	7,888.97	99.10	97.15	86.60	-774.60	-3,753.01	791.73	597.91	193.82	4.085		
11,400.00	7,935.95	11,205.20	7,888.97	101.62	99.71	86.60	-774.16	-3,853.01	791.73	592.78	198.94	3.980		
11,500.00	7,935.95	11,305.20	7,888.97	104.15	102.28	86.60	-773.73	-3,953.01	791.73	587.64	204.08	3.879		
11,600.00	7,935.94	11,405.20	7,888.97	106.68	104.85	86.60	-773.30	-4,053.00	791.72	582.49	209.23	3.784		
11,700.00	7,935.94	11,505.20	7,888.97	109.23	107.43	86.60	-772.86	-4,153.00	791.72	577.33	214.39	3.693		
11,800.00	7,935.94	11,605.20	7,888.97	111.78	110.01	86.60	-772.43	-4,253.00	791.72	572.16	219.56	3.606		
11,900.00	7,935.94	11,705.19	7,888.97	114.33	112.60	86.60	-771.99	-4,353.00	791.72	566.98	224.75	3.523		
12,000.00	7,935.94	11,805.19	7,888.97	116.90	115.20	86.60	-771.56	-4,453.00	791.72	561.79	229.93	3.443		
12,100.00	7,935.93	11,905.19	7,888.97	119.47	117.79	86.60	-771.12	-4,552.99	791.72	556.59	235.13	3.367		
12,200.00	7,935.93	12,005.19	7,888.97	122.04	120.40	86.60	-770.69	-4,652.99	791.72	551.38	240.34	3.294		
12,300.00	7,935.93	12,105.19	7,888.97	124.63	123.00	86.60	-770.25	-4,752.99	791.72	546.17	245.55	3.224		
12,400.00	7,935.93	12,205.19	7,888.97	127.21	125.61	86.60	-769.82	-4,852.99	791.72	540.95	250.77	3.157		
12,404.78	7,935.93	12,209.97	7,888.97	127.34	125.74	86.60	-769.80	-4,857.77	791.72	540.70	251.02	3.154		
12,500.00	7,935.93	12,305.19	7,888.97	129.80	128.22	86.60	-769.38	-4,952.98	791.72	535.72	256.00	3.093		
12,600.00	7,935.93	12,405.19	7,888.97	132.40	130.84	86.60	-768.95	-5,052.98	791.72	530.49	261.23	3.031		
12,700.00	7,935.92	12,505.18	7,888.97	135.00	133.46	86.60	-768.51	-5,152.98	791.72	525.25	266.47	2.971		
12,800.00	7,935.92	12,605.18	7,888.97	137.60	136.08	86.60	-768.08	-5,252.98	791.72	520.01	271.71	2.914		
12,900.00	7,935.92	12,705.18	7,888.97	140.20	138.70	86.60	-767.64	-5,352.97	791.72	514.76	276.96	2.859		
13,000.00	7,935.92	12,805.18	7,888.97	142.81	141.33	86.60	-767.20	-5,452.97	791.72	509.51	282.21	2.805		
13,100.00	7,935.92	12,905.18	7,888.97	145.43	143.96	86.60	-766.77	-5,552.97	791.72	504.25	287.47	2.754		
13,200.00	7,935.91	13,005.18	7,888.97	148.04	146.59	86.60	-766.33	-5,652.97	791.72	498.99	292.73	2.705		
13,300.00	7,935.91	13,105.18	7,888.97	150.66	149.22	86.60	-765.90	-5,752.97	791.72	493.73	298.00	2.657		
13,400.00	7,935.91	13,205.17	7,888.97	153.28	151.86	86.60	-765.46	-5,852.96	791.73	488.46	303.27	2.611		
13,500.00	7,935.91	13,305.17	7,888.97	155.90	154.50	86.60	-765.02	-5,952.96	791.73	483.19	308.54	2.566		
13,600.00	7,935.91	13,405.17	7,888.97	158.53	157.14	86.60	-764.58	-6,052.96	791.73	477.91	313.82	2.523		
13,700.00	7,935.91	13,505.17	7,888.97	161.16	159.78	86.60	-764.15	-6,152.96	791.73	472.63	319.10	2.481		
13,800.00	7,935.90	13,605.17	7,888.97	163.79	162.42	86.60	-763.71	-6,252.95	791.73	467.35	324.38	2.441		
13,900.00	7,935.90	13,705.17	7,888.97	166.42	165.06	86.60	-763.27	-6,352.95	791.74	462.07	329.67	2.402		

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 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,935.90	13,805.17	7,888.97	169.05	167.71	86.60	-762.83	-6,452.95	791.74	456.78	334.96	2.364		
14,100.00	7,935.90	13,905.17	7,888.97	171.69	170.35	86.60	-762.40	-6,552.95	791.74	451.49	340.25	2.327		
14,200.00	7,935.90	14,005.16	7,888.97	174.33	173.00	86.60	-761.96	-6,652.94	791.74	446.20	345.54	2.291		
14,300.00	7,935.89	14,105.16	7,888.97	176.97	175.65	86.60	-761.52	-6,752.94	791.75	440.91	350.84	2.257		
14,400.00	7,935.89	14,205.16	7,888.97	179.61	178.30	86.60	-761.08	-6,852.94	791.75	435.61	356.14	2.223		
14,500.00	7,935.89	14,305.16	7,888.97	182.25	180.95	86.60	-760.64	-6,952.94	791.75	430.31	361.44	2.191		
14,600.00	7,935.89	14,405.16	7,888.97	184.90	183.61	86.60	-760.20	-7,052.94	791.76	425.01	366.74	2.159		
14,700.00	7,935.89	14,505.16	7,888.97	187.54	186.26	86.60	-759.76	-7,152.93	791.76	419.71	372.05	2.128		
14,800.00	7,935.89	14,605.16	7,888.97	190.19	188.91	86.60	-759.32	-7,252.93	791.77	414.41	377.36	2.098		
14,900.00	7,935.88	14,705.15	7,888.97	192.84	191.57	86.60	-758.89	-7,352.93	791.77	409.10	382.67	2.069		
15,000.00	7,935.88	14,805.15	7,888.97	195.49	194.23	86.60	-758.45	-7,452.93	791.77	403.80	387.98	2.041		
15,100.00	7,935.88	14,905.15	7,888.97	198.14	196.89	86.60	-758.01	-7,552.92	791.78	398.49	393.29	2.013		
15,200.00	7,935.88	15,005.15	7,888.97	200.79	199.54	86.60	-757.57	-7,652.92	791.78	393.18	398.61	1.986		
15,300.00	7,935.88	15,105.15	7,888.97	203.44	202.20	86.60	-757.13	-7,752.92	791.79	387.87	403.92	1.960		
15,400.00	7,935.87	15,205.15	7,888.97	206.10	204.86	86.60	-756.69	-7,852.92	791.79	382.55	409.24	1.935		
15,500.00	7,935.87	15,305.15	7,888.98	208.75	207.52	86.60	-756.25	-7,952.92	791.80	377.24	414.56	1.910		
15,600.00	7,935.87	15,405.15	7,888.98	211.41	210.19	86.60	-755.80	-8,052.91	791.80	371.92	419.88	1.886		
15,700.00	7,935.87	15,505.14	7,888.98	214.07	212.85	86.60	-755.36	-8,152.91	791.81	366.61	425.20	1.862		
15,800.00	7,935.87	15,605.14	7,888.98	216.72	215.51	86.61	-754.92	-8,252.91	791.81	361.29	430.52	1.839		
15,900.00	7,935.87	15,705.14	7,888.98	219.38	218.17	86.61	-754.48	-8,352.91	791.82	355.97	435.85	1.817		
16,000.00	7,935.86	15,805.14	7,888.98	222.04	220.84	86.61	-754.04	-8,452.90	791.82	350.65	441.17	1.795		
16,100.00	7,935.86	15,905.14	7,888.98	224.70	223.50	86.61	-753.60	-8,552.90	791.83	345.33	446.50	1.773		
16,200.00	7,935.86	16,005.14	7,888.98	227.37	226.17	86.61	-753.16	-8,652.90	791.84	340.01	451.83	1.753		
16,300.00	7,935.86	16,105.14	7,888.98	230.03	228.84	86.61	-752.72	-8,752.90	791.84	334.68	457.16	1.732		
16,400.00	7,935.86	16,205.13	7,888.98	232.69	231.50	86.61	-752.27	-8,852.89	791.85	329.36	462.49	1.712		
16,500.00	7,935.85	16,305.13	7,888.98	235.35	234.17	86.61	-751.83	-8,952.89	791.86	324.04	467.82	1.693		
16,600.00	7,935.85	16,405.13	7,888.98	238.02	236.84	86.61	-751.39	-9,052.89	791.86	318.71	473.15	1.674		
16,700.00	7,935.85	16,505.13	7,888.98	240.68	239.51	86.61	-750.95	-9,152.89	791.87	313.38	478.49	1.655		
16,800.00	7,935.85	16,605.13	7,888.98	243.35	242.17	86.61	-750.50	-9,252.89	791.88	308.06	483.82	1.637		
16,900.00	7,935.85	16,705.13	7,888.99	246.01	244.84	86.61	-750.06	-9,352.88	791.89	302.73	489.16	1.619		
17,000.00	7,935.85	16,805.13	7,888.99	248.68	247.51	86.61	-749.62	-9,452.88	791.89	297.40	494.49	1.601		
17,100.00	7,935.84	16,905.13	7,888.99	251.35	250.18	86.61	-749.18	-9,552.88	791.90	292.07	499.83	1.584		
17,200.00	7,935.84	17,005.12	7,888.99	254.02	252.85	86.61	-748.73	-9,652.88	791.91	286.74	505.17	1.568		
17,300.00	7,935.84	17,105.12	7,888.99	256.69	255.52	86.61	-748.29	-9,752.87	791.92	281.41	510.51	1.551		
17,400.00	7,935.84	17,205.12	7,888.99	259.35	258.20	86.61	-747.85	-9,852.87	791.93	276.08	515.84	1.535		
17,500.00	7,935.84	17,305.12	7,888.99	262.02	260.87	86.61	-747.40	-9,952.87	791.93	270.75	521.18	1.519		
17,600.00	7,935.83	17,405.12	7,888.99	264.69	263.54	86.61	-746.96	-10,052.87	791.94	265.42	526.53	1.504		
17,700.00	7,935.83	17,505.12	7,888.99	267.36	266.21	86.61	-746.51	-10,152.86	791.95	260.08	531.87	1.489 Level 3		
17,800.00	7,935.83	17,605.12	7,889.00	270.03	268.88	86.61	-746.07	-10,252.86	791.96	254.75	537.21	1.474 Level 3		
17,900.00	7,935.83	17,705.11	7,889.00	272.71	271.56	86.61	-745.62	-10,352.86	791.97	249.42	542.55	1.460 Level 3		
18,000.00	7,935.83	17,805.11	7,889.00	275.38	274.23	86.61	-745.18	-10,452.86	791.98	244.08	547.89	1.445 Level 3		
18,100.00	7,935.83	17,905.11	7,889.00	278.05	276.90	86.61	-744.74	-10,552.86	791.99	238.75	553.24	1.432 Level 3		
18,152.68	7,935.82	17,957.79	7,889.00	279.46	278.31	86.61	-744.50	-10,605.53	791.99	235.94	556.05	1.424 Level 3		
18,153.00	7,936.00	17,958.11	7,889.00	279.47	278.32	86.60	-744.50	-10,605.85	791.85	235.79	556.06	1.424 Level 3, SF		

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-16.87	16.87					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-16.87	16.87	16.61	0.27	62.766		
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-16.87	16.87	15.89	0.99	17.118		
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-16.87	16.87	15.17	1.70	9.910		
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-16.87	16.87	14.46	2.42	6.974		
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-16.87	16.87	13.74	3.14	5.380		
600.00	599.98	600.02	599.98	1.91	1.93	83.42	0.00	-16.87	16.59	12.75	3.84	4.323		
644.54	644.48	644.48	644.48	2.06	2.09	90.00	0.00	-16.87	16.48	12.33	4.14	3.975 CC		
700.00	699.84	699.84	699.84	2.25	2.28	101.41	0.00	-16.87	16.81	12.28	4.53	3.712		
800.00	799.45	799.80	799.78	2.59	2.63	121.83	-1.67	-17.35	19.53	14.31	5.22	3.742		
900.00	898.70	900.00	899.84	2.96	2.96	135.63	-6.72	-18.77	24.17	18.27	5.90	4.095		
1,000.00	997.47	1,000.45	999.90	3.35	3.30	144.33	-15.15	-21.16	29.87	23.27	6.60	4.527		
1,100.00	1,095.62	1,101.14	1,099.83	3.77	3.66	149.86	-26.98	-24.50	36.11	28.81	7.30	4.946		
1,200.00	1,193.06	1,202.08	1,199.51	4.22	4.05	153.47	-42.23	-28.82	42.66	34.65	8.01	5.323		
1,244.60	1,236.24	1,247.17	1,243.85	4.43	4.23	154.66	-50.13	-31.05	45.64	37.31	8.34	5.475		
1,300.00	1,289.78	1,303.16	1,298.72	4.71	4.45	155.66	-60.86	-34.09	48.91	40.17	8.74	5.596		
1,400.00	1,386.43	1,403.02	1,396.43	5.21	4.88	156.81	-80.66	-39.68	54.21	44.71	9.50	5.706		
1,500.00	1,483.07	1,502.87	1,494.14	5.73	5.32	157.75	-100.46	-45.28	59.54	49.27	10.27	5.797		
1,600.00	1,579.71	1,602.72	1,591.85	6.25	5.77	158.54	-120.25	-50.88	64.87	53.83	11.04	5.874		
1,700.00	1,676.35	1,702.58	1,689.56	6.78	6.23	159.21	-140.05	-56.48	70.22	58.39	11.82	5.939		
1,800.00	1,772.99	1,802.43	1,787.28	7.32	6.69	159.78	-159.85	-62.08	75.57	62.96	12.61	5.994		
1,900.00	1,869.63	1,902.29	1,884.99	7.86	7.16	160.28	-179.65	-67.68	80.93	67.54	13.39	6.043		
2,000.00	1,966.27	2,002.14	1,982.70	8.41	7.64	160.72	-199.44	-73.27	86.29	72.11	14.18	6.085		
2,100.00	2,062.91	2,101.99	2,080.41	8.96	8.11	161.10	-219.24	-78.87	91.66	76.69	14.97	6.122		
2,200.00	2,159.55	2,201.85	2,178.12	9.51	8.60	161.45	-239.04	-84.47	97.04	81.27	15.77	6.155		
2,300.00	2,256.20	2,301.70	2,275.83	10.06	9.08	161.75	-258.84	-90.07	102.41	85.85	16.56	6.185		
2,400.00	2,352.84	2,401.56	2,373.55	10.61	9.56	162.03	-278.63	-95.67	107.79	90.44	17.35	6.211		
2,500.00	2,449.48	2,501.41	2,471.26	11.17	10.05	162.28	-298.43	-101.27	113.17	95.02	18.15	6.235		
2,600.00	2,546.12	2,601.26	2,568.97	11.72	10.54	162.50	-318.23	-106.86	118.56	99.61	18.95	6.257		
2,700.00	2,642.76	2,701.12	2,666.68	12.28	11.03	162.71	-338.02	-112.46	123.94	104.20	19.75	6.277		
2,800.00	2,739.40	2,800.97	2,764.39	12.84	11.52	162.90	-357.82	-118.06	129.33	108.78	20.55	6.295		
2,900.00	2,836.04	2,900.83	2,862.10	13.40	12.01	163.08	-377.62	-123.66	134.72	113.37	21.34	6.312		
3,000.00	2,932.68	3,000.68	2,958.81	13.96	12.51	163.24	-397.42	-129.26	140.11	117.96	22.14	6.327		
3,100.00	3,029.33	3,100.53	3,057.53	14.52	13.00	163.39	-417.21	-134.86	145.50	122.55	22.95	6.341		
3,200.00	3,125.97	3,200.39	3,155.24	15.08	13.49	163.53	-437.01	-140.45	150.89	127.14	23.75	6.354		
3,300.00	3,222.61	3,300.24	3,252.95	15.64	13.99	163.66	-456.81	-146.05	156.28	131.73	24.55	6.366		
3,400.00	3,319.25	3,400.10	3,350.66	16.21	14.48	163.78	-476.61	-151.65	161.67	136.32	25.35	6.378		
3,500.00	3,415.89	3,500.05	3,448.37	16.77	14.98	163.89	-496.40	-157.25	167.06	140.91	26.15	6.388		
3,600.00	3,512.53	3,600.20	3,546.08	17.33	15.48	164.00	-516.20	-162.85	172.46	145.50	26.96	6.398		
3,700.00	3,609.17	3,700.34	3,643.79	17.89	15.98	164.09	-536.00	-168.45	177.85	150.09	27.76	6.407		
3,800.00	3,705.81	3,800.49	3,741.51	18.46	16.48	164.19	-555.79	-174.04	183.25	154.68	28.56	6.415		
3,900.00	3,802.46	3,900.64	3,839.22	19.02	16.98	164.28	-575.59	-179.64	188.64	159.27	29.37	6.423		
4,000.00	3,899.10	4,000.78	3,936.93	19.59	17.48	164.36	-595.39	-185.24	194.04	163.86	30.17	6.431		
4,100.00	3,995.74	4,100.93	4,034.64	20.15	17.98	164.44	-615.19	-190.84	199.43	168.45	30.98	6.438		
4,200.00	4,092.38	4,201.07	4,132.35	20.71	18.48	164.51	-634.98	-196.44	204.83	173.05	31.78	6.445		
4,300.00	4,189.02	4,301.22	4,230.06	21.28	18.98	164.58	-654.78	-202.04	210.23	177.64	32.59	6.451		
4,400.00	4,285.66	4,401.37	4,327.78	21.84	19.48	164.65	-674.58	-207.63	215.62	182.23	33.39	6.457		
4,500.00	4,382.30	4,501.51	4,425.49	22.41	19.98	164.71	-694.38	-213.23	221.02	186.82	34.20	6.463		
4,600.00	4,478.94	4,601.66	4,523.20	22.97	20.48	164.78	-714.17	-218.83	226.42	191.41	35.01	6.468		
4,700.00	4,575.59	4,701.80	4,620.91	23.54	20.98	164.83	-733.97	-224.43	231.82	196.00	35.81	6.473		
4,800.00	4,672.23	4,801.95	4,718.62	24.10	21.48	164.89	-753.77	-230.03	237.21	200.60	36.62	6.478		
4,900.00	4,768.87	4,902.10	4,816.33	24.67	21.98	164.94	-773.56	-235.63	242.61	205.19	37.42	6.483		

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 5-6-10
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 5-6-10	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	4,865.51	5,002.24	4,914.04	25.24	22.49	164.99	-793.36	-241.23	248.01	209.78	38.23	6.487		
5,100.00	4,962.15	5,102.39	5,011.76	25.80	22.99	165.04	-813.16	-246.82	253.41	214.37	39.04	6.492		
5,200.00	5,058.79	5,197.47	5,109.47	26.37	23.46	165.09	-832.96	-252.42	258.81	218.99	39.82	6.499		
5,300.00	5,155.43	5,302.68	5,207.18	26.93	23.99	165.13	-852.75	-258.02	264.21	223.56	40.65	6.500		
5,400.00	5,252.07	5,397.17	5,304.89	27.50	24.47	165.17	-872.55	-263.62	269.61	228.17	41.43	6.507		
5,500.00	5,348.72	5,502.97	5,402.60	28.07	25.00	165.22	-892.35	-269.22	275.00	232.74	42.26	6.507		
5,600.00	5,445.36	5,603.12	5,500.31	28.63	25.50	165.26	-912.15	-274.82	280.40	237.34	43.07	6.511		
5,700.00	5,542.00	5,696.74	5,598.02	29.20	25.97	165.29	-931.94	-280.41	285.80	241.95	43.85	6.518		
5,800.00	5,638.64	5,796.59	5,695.74	29.76	26.47	165.33	-951.74	-286.01	291.20	246.55	44.66	6.521		
5,900.00	5,735.28	5,903.56	5,793.45	30.33	27.01	165.37	-971.54	-291.61	296.60	251.11	45.49	6.520		
6,000.00	5,831.92	6,003.70	5,891.16	30.90	27.51	165.40	-991.34	-297.21	302.00	255.71	46.30	6.523		
6,100.00	5,928.56	6,103.85	5,988.87	31.46	28.01	165.43	-1,011.13	-302.81	307.40	260.30	47.10	6.526		
6,200.00	6,025.20	6,203.99	6,086.58	32.03	28.52	165.46	-1,030.93	-308.41	312.80	264.89	47.91	6.529		
6,300.00	6,121.85	6,304.14	6,184.29	32.60	29.02	165.49	-1,050.73	-314.00	318.20	269.48	48.72	6.532		
6,400.00	6,218.49	6,404.29	6,282.01	33.16	29.52	165.52	-1,070.52	-319.60	323.60	274.08	49.52	6.534		
6,500.00	6,315.13	6,504.43	6,379.72	33.73	30.03	165.55	-1,090.32	-325.20	329.00	278.67	50.33	6.537		
6,600.00	6,411.77	6,604.58	6,477.43	34.30	30.53	165.58	-1,110.12	-330.80	334.40	283.26	51.14	6.539		
6,700.00	6,508.41	6,693.89	6,573.78	34.86	30.98	165.61	-1,129.62	-336.31	339.83	287.93	51.90	6.548		
6,791.42	6,596.76	6,775.73	6,654.17	35.38	31.37	165.71	-1,144.41	-340.49	346.39	293.83	52.56	6.591		
6,800.00	6,605.05	6,783.39	6,661.71	35.43	31.41	165.72	-1,145.68	-340.85	347.12	294.50	52.62	6.597		
6,900.00	6,702.20	6,872.60	6,749.83	35.97	31.80	165.93	-1,159.05	-344.64	355.40	302.14	53.27	6.672		
7,000.00	6,800.11	6,961.61	6,838.15	36.47	32.17	166.15	-1,169.76	-347.66	363.28	309.43	53.85	6.746		
7,100.00	6,898.67	7,050.44	6,926.58	36.93	32.51	166.36	-1,177.80	-349.94	370.74	316.36	54.38	6.818		
7,200.00	6,997.75	7,139.10	7,015.05	37.34	32.81	166.57	-1,183.20	-351.46	377.78	322.94	54.84	6.889		
7,300.00	7,097.25	7,227.59	7,103.49	37.71	33.09	166.78	-1,185.95	-352.24	384.39	329.15	55.24	6.959		
7,400.00	7,197.04	7,321.00	7,196.89	38.04	33.33	166.97	-1,186.35	-352.55	390.27	334.56	55.70	7.006		
7,500.00	7,296.99	7,418.70	7,293.88	38.32	33.62	165.50	-1,186.30	-363.38	393.48	336.94	56.55	6.958		
7,536.02	7,333.00	7,452.64	7,326.94	38.41	33.72	-3.12	-1,186.27	-370.99	394.11	337.20	56.91	6.925		
7,566.02	7,363.00	7,480.13	7,353.36	38.47	33.81	-4.22	-1,186.24	-378.58	394.70	337.47	57.23	6.896		
7,600.00	7,396.96	7,510.60	7,382.19	38.55	33.92	84.13	-1,186.19	-388.46	395.65	338.06	57.59	6.870		
7,650.00	7,446.68	7,554.67	7,422.85	38.68	34.07	82.13	-1,186.12	-405.43	397.45	339.36	58.09	6.842		
7,700.00	7,495.77	7,597.90	7,461.35	38.82	34.22	80.20	-1,186.03	-425.06	399.67	341.16	58.51	6.831		
7,750.00	7,543.84	7,640.37	7,497.63	38.97	34.38	78.36	-1,185.94	-447.12	402.23	343.37	58.86	6.834		
7,800.00	7,590.54	7,682.17	7,531.65	39.12	34.54	76.62	-1,185.83	-471.40	405.05	345.94	59.11	6.852		
7,850.00	7,635.50	7,723.36	7,563.35	39.27	34.70	74.99	-1,185.71	-497.69	408.05	348.78	59.27	6.885		
7,900.00	7,678.39	7,764.02	7,592.71	39.44	34.87	73.47	-1,185.59	-525.80	411.15	351.82	59.33	6.930		
7,950.00	7,718.88	7,804.20	7,619.69	39.60	35.04	72.07	-1,185.46	-555.55	414.26	354.96	59.30	6.986		
8,000.00	7,756.67	7,843.95	7,644.28	39.78	35.22	70.80	-1,185.33	-586.78	417.33	358.12	59.21	7.048		
8,050.00	7,791.45	7,883.34	7,666.44	39.96	35.41	69.65	-1,185.18	-619.33	420.26	361.19	59.07	7.115		
8,100.00	7,822.98	7,922.40	7,686.16	40.15	35.61	68.63	-1,185.04	-653.05	423.01	364.11	58.90	7.182		
8,150.00	7,851.01	7,961.20	7,703.43	40.35	35.82	67.75	-1,184.88	-687.78	425.51	366.79	58.72	7.246		
8,200.00	7,875.32	8,000.00	7,718.31	40.57	36.05	67.00	-1,184.73	-723.61	427.71	369.13	58.59	7.301		
8,250.00	7,895.74	8,038.13	7,730.54	40.81	36.30	66.39	-1,184.57	-759.71	429.58	371.10	58.47	7.346		
8,300.00	7,912.10	8,076.36	7,740.36	41.06	36.56	65.91	-1,184.41	-796.65	431.07	372.61	58.46	7.374		
8,350.00	7,924.28	8,114.47	7,747.68	41.34	36.85	65.57	-1,184.25	-834.04	432.16	373.62	58.54	7.382		
8,400.00	7,932.19	8,152.51	7,752.49	41.65	37.15	65.36	-1,184.08	-871.77	432.82	374.08	58.74	7.368		
8,450.00	7,935.77	8,190.51	7,754.79	41.99	37.48	65.29	-1,183.91	-909.69	433.06	373.98	59.08	7.330		
8,466.09	7,936.00	8,202.74	7,754.99	42.10	37.60	65.29	-1,183.86	-921.92	433.04	373.82	59.22	7.312		
8,466.99	7,936.00	8,209.79	7,755.00	42.11	37.66	65.29	-1,183.86	-921.74	433.04	373.77	59.27	7.307		
8,500.00	7,936.00	8,235.56	7,755.00	42.35	37.91	65.29	-1,183.72	-954.74	433.04	373.06	59.97	7.221		
8,600.00	7,936.00	8,335.56	7,755.00	43.20	38.98	65.29	-1,183.28	-1,054.74	433.04	370.50	62.54	6.924		
8,700.00	7,936.00	8,435.56	7,755.00	44.20	40.22	65.29	-1,182.84	-1,154.74	433.04	367.66	65.37	6.624		

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 5-6-10
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 5-6-10	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	7,935.99	8,535.56	7,755.00	45.35	41.62	65.29	-1,182.41	-1,254.74	433.04	364.59	68.45	6.326		
8,900.00	7,935.99	8,635.56	7,755.00	46.65	43.17	65.29	-1,181.97	-1,354.74	433.04	361.31	71.73	6.037		
9,000.00	7,935.99	8,735.56	7,755.00	48.10	44.84	65.29	-1,181.53	-1,454.74	433.04	357.84	75.20	5.758		
9,100.00	7,935.99	8,835.56	7,755.00	49.67	46.63	65.29	-1,181.10	-1,554.74	433.04	354.22	78.82	5.494		
9,200.00	7,935.99	8,935.56	7,755.00	51.37	48.52	65.29	-1,180.66	-1,654.74	433.04	350.46	82.59	5.244		
9,300.00	7,935.99	9,035.56	7,755.00	53.16	50.49	65.30	-1,180.22	-1,754.73	433.04	346.58	86.47	5.008		
9,400.00	7,935.98	9,135.56	7,755.00	55.05	52.54	65.30	-1,179.79	-1,854.73	433.04	342.60	90.45	4.788		
9,500.00	7,935.98	9,235.56	7,755.00	57.02	54.64	65.30	-1,179.35	-1,954.73	433.05	338.52	94.52	4.581		
9,600.00	7,935.98	9,335.56	7,754.99	59.06	56.81	65.30	-1,178.91	-2,054.73	433.05	334.37	98.68	4.389		
9,700.00	7,935.98	9,435.56	7,754.99	61.16	59.02	65.30	-1,178.48	-2,154.73	433.05	330.15	102.90	4.208		
9,800.00	7,935.98	9,535.56	7,754.99	63.31	61.27	65.30	-1,178.04	-2,254.73	433.05	325.86	107.18	4.040		
9,900.00	7,935.97	9,635.56	7,754.99	65.50	63.56	65.30	-1,177.60	-2,354.73	433.05	321.53	111.52	3.883		
10,000.00	7,935.97	9,735.56	7,754.99	67.74	65.88	65.30	-1,177.16	-2,454.73	433.05	317.14	115.91	3.736		
10,100.00	7,935.97	9,835.56	7,754.99	70.02	68.23	65.30	-1,176.73	-2,554.73	433.05	312.71	120.34	3.599		
10,200.00	7,935.97	9,935.56	7,754.99	72.32	70.61	65.30	-1,176.29	-2,654.73	433.05	308.24	124.81	3.470		
10,300.00	7,935.97	10,035.56	7,754.99	74.66	73.01	65.30	-1,175.85	-2,754.73	433.05	303.74	129.31	3.349		
10,400.00	7,935.97	10,135.56	7,754.99	77.02	75.43	65.30	-1,175.42	-2,854.72	433.05	299.21	133.85	3.235		
10,500.00	7,935.96	10,235.56	7,754.99	79.41	77.87	65.30	-1,174.98	-2,954.72	433.06	294.64	138.41	3.129		
10,600.00	7,935.96	10,335.56	7,754.99	81.81	80.33	65.30	-1,174.54	-3,054.72	433.06	290.06	143.00	3.028		
10,700.00	7,935.96	10,435.56	7,754.99	84.24	82.80	65.30	-1,174.11	-3,154.72	433.06	285.45	147.61	2.934		
10,800.00	7,935.96	10,535.56	7,754.99	86.68	85.28	65.30	-1,173.67	-3,254.72	433.06	280.82	152.24	2.845		
10,900.00	7,935.96	10,635.56	7,754.99	89.14	87.78	65.30	-1,173.23	-3,354.72	433.06	276.17	156.89	2.760		
11,000.00	7,935.95	10,735.56	7,754.99	91.61	90.29	65.30	-1,172.80	-3,454.72	433.06	271.50	161.56	2.681		
11,100.00	7,935.95	10,835.56	7,754.99	94.10	92.81	65.30	-1,172.36	-3,554.72	433.06	266.82	166.24	2.605		
11,200.00	7,935.95	10,935.56	7,754.99	96.59	95.35	65.30	-1,171.92	-3,654.72	433.06	262.12	170.94	2.533		
11,300.00	7,935.95	11,035.56	7,754.99	99.10	97.89	65.30	-1,171.48	-3,754.72	433.06	257.41	175.65	2.465		
11,400.00	7,935.95	11,135.56	7,754.99	101.62	100.43	65.30	-1,171.05	-3,854.71	433.06	252.69	180.38	2.401		
11,500.00	7,935.95	11,235.56	7,754.99	104.15	102.99	65.30	-1,170.61	-3,954.71	433.07	247.95	185.11	2.339		
11,600.00	7,935.94	11,335.56	7,754.99	106.68	105.55	65.30	-1,170.17	-4,054.71	433.07	243.21	189.86	2.281		
11,700.00	7,935.94	11,435.56	7,754.98	109.23	108.12	65.30	-1,169.74	-4,154.71	433.07	238.45	194.61	2.225		
11,800.00	7,935.94	11,535.56	7,754.98	111.78	110.70	65.30	-1,169.30	-4,254.71	433.07	233.69	199.38	2.172		
11,900.00	7,935.94	11,635.56	7,754.98	114.33	113.28	65.30	-1,168.86	-4,354.71	433.07	228.92	204.15	2.121		
12,000.00	7,935.94	11,735.56	7,754.98	116.90	115.86	65.30	-1,168.43	-4,454.71	433.07	224.14	208.93	2.073		
12,100.00	7,935.93	11,835.56	7,754.98	119.47	118.46	65.30	-1,167.99	-4,554.71	433.07	219.35	213.72	2.026		
12,200.00	7,935.93	11,935.56	7,754.98	122.04	121.05	65.30	-1,167.55	-4,654.71	433.07	214.55	218.52	1.982		
12,300.00	7,935.93	12,035.56	7,754.98	124.63	123.65	65.30	-1,167.12	-4,754.71	433.07	209.75	223.32	1.939		
12,400.00	7,935.93	12,135.56	7,754.98	127.21	126.25	65.30	-1,166.68	-4,854.71	433.07	204.95	228.13	1.898		
12,500.00	7,935.93	12,235.56	7,754.98	129.80	128.86	65.30	-1,166.24	-4,954.70	433.08	200.13	232.94	1.859		
12,600.00	7,935.93	12,335.56	7,754.98	132.40	131.47	65.30	-1,165.81	-5,054.70	433.08	195.32	237.76	1.821		
12,700.00	7,935.92	12,435.56	7,754.98	135.00	134.09	65.30	-1,165.37	-5,154.70	433.08	190.49	242.58	1.785		
12,800.00	7,935.92	12,535.56	7,754.98	137.60	136.71	65.30	-1,164.93	-5,254.70	433.08	185.67	247.41	1.750		
12,900.00	7,935.92	12,635.56	7,754.98	140.20	139.33	65.30	-1,164.49	-5,354.70	433.08	180.83	252.25	1.717		
13,000.00	7,935.92	12,735.56	7,754.98	142.81	141.95	65.30	-1,164.06	-5,454.70	433.08	176.00	257.08	1.685		
13,100.00	7,935.92	12,835.56	7,754.98	145.43	144.58	65.30	-1,163.62	-5,554.70	433.08	171.16	261.92	1.653		
13,200.00	7,935.91	12,935.56	7,754.98	148.04	147.20	65.30	-1,163.18	-5,654.70	433.08	166.31	266.77	1.623		
13,300.00	7,935.91	13,035.56	7,754.98	150.66	149.83	65.31	-1,162.75	-5,754.70	433.08	161.47	271.62	1.594		
13,400.00	7,935.91	13,135.56	7,754.98	153.28	152.47	65.31	-1,162.31	-5,854.70	433.08	156.61	276.47	1.566		
13,500.00	7,935.91	13,235.56	7,754.98	155.90	155.10	65.31	-1,161.87	-5,954.69	433.09	151.76	281.32	1.539		
13,600.00	7,935.91	13,335.56	7,754.98	158.53	157.74	65.31	-1,161.44	-6,054.69	433.09	146.90	286.18	1.513		
13,700.00	7,935.91	13,435.56	7,754.97	161.16	160.38	65.31	-1,161.00	-6,154.69	433.09	142.04	291.04	1.488 Level 3		
13,800.00	7,935.90	13,535.56	7,754.97	163.79	163.02	65.31	-1,160.56	-6,254.69	433.09	137.18	295.91	1.464 Level 3		
13,900.00	7,935.90	13,635.56	7,754.97	166.42	165.66	65.31	-1,160.13	-6,354.69	433.09	132.32	300.77	1.440 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 5-6-10
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 5-6-10	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

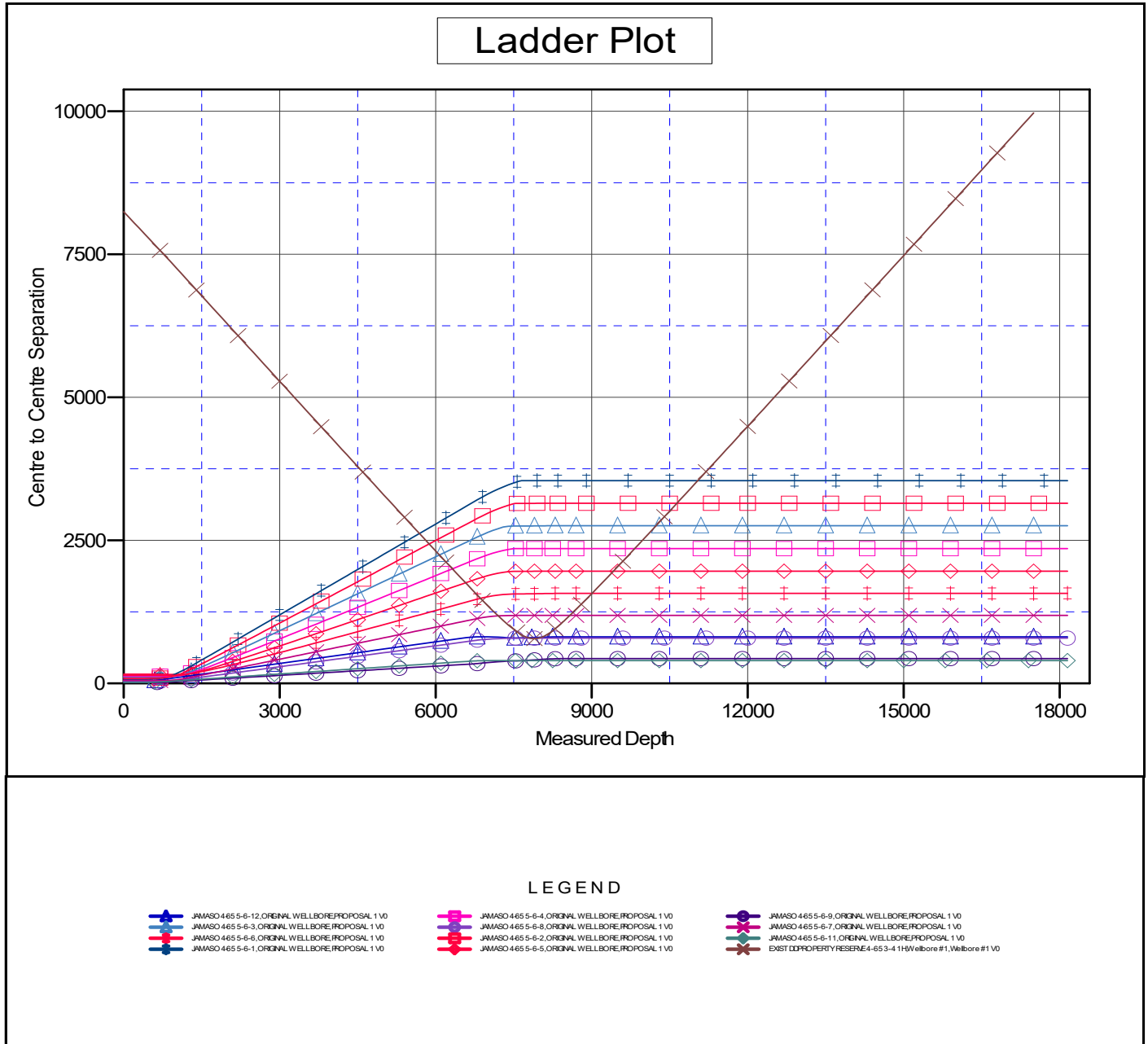
Offset Design Sec 4-T4S-R65W - JAMASO 4-65 5-6-9 - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,935.90	13,735.56	7,754.97	169.05	168.31	65.31	-1,159.69	-6,454.69	433.09	127.45	305.64	1.417	Level 3	
14,100.00	7,935.90	13,835.56	7,754.97	171.69	170.95	65.31	-1,159.25	-6,554.69	433.09	122.58	310.51	1.395	Level 3	
14,200.00	7,935.90	13,935.56	7,754.97	174.33	173.60	65.31	-1,158.81	-6,654.69	433.09	117.71	315.39	1.373	Level 3	
14,300.00	7,935.89	14,035.56	7,754.97	176.97	176.25	65.31	-1,158.38	-6,754.69	433.09	112.83	320.26	1.352	Level 3	
14,400.00	7,935.89	14,135.56	7,754.97	179.61	178.90	65.31	-1,157.94	-6,854.69	433.09	107.95	325.14	1.332	Level 3	
14,500.00	7,935.89	14,235.56	7,754.97	182.25	181.55	65.31	-1,157.50	-6,954.69	433.09	103.08	330.02	1.312	Level 3	
14,600.00	7,935.89	14,335.56	7,754.97	184.90	184.20	65.31	-1,157.07	-7,054.68	433.10	98.20	334.90	1.293	Level 3	
14,700.00	7,935.89	14,435.56	7,754.97	187.54	186.85	65.31	-1,156.63	-7,154.68	433.10	93.31	339.78	1.275	Level 3	
14,800.00	7,935.89	14,535.56	7,754.97	190.19	189.51	65.31	-1,156.19	-7,254.68	433.10	88.43	344.67	1.257	Level 3	
14,900.00	7,935.88	14,635.56	7,754.97	192.84	192.16	65.31	-1,155.76	-7,354.68	433.10	83.54	349.55	1.239	Level 2	
15,000.00	7,935.88	14,735.56	7,754.97	195.49	194.82	65.31	-1,155.32	-7,454.68	433.10	78.66	354.44	1.222	Level 2	
15,100.00	7,935.88	14,835.56	7,754.97	198.14	197.48	65.31	-1,154.88	-7,554.68	433.10	73.77	359.33	1.205	Level 2	
15,200.00	7,935.88	14,935.56	7,754.97	200.79	200.14	65.31	-1,154.45	-7,654.68	433.10	68.88	364.22	1.189	Level 2	
15,300.00	7,935.88	15,035.56	7,754.97	203.44	202.80	65.31	-1,154.01	-7,754.68	433.10	63.99	369.12	1.173	Level 2	
15,400.00	7,935.87	15,135.56	7,754.97	206.10	205.46	65.31	-1,153.57	-7,854.68	433.10	59.09	374.01	1.158	Level 2	
15,500.00	7,935.87	15,235.56	7,754.97	208.75	208.12	65.31	-1,153.14	-7,954.68	433.10	54.20	378.90	1.143	Level 2	
15,600.00	7,935.87	15,335.56	7,754.97	211.41	210.78	65.31	-1,152.70	-8,054.67	433.11	49.30	383.80	1.128	Level 2	
15,700.00	7,935.87	15,435.56	7,754.97	214.07	213.45	65.31	-1,152.26	-8,154.67	433.11	44.41	388.70	1.114	Level 2	
15,800.00	7,935.87	15,535.56	7,754.96	216.72	216.11	65.31	-1,151.82	-8,254.67	433.11	39.51	393.60	1.100	Level 2	
15,900.00	7,935.87	15,635.56	7,754.96	219.38	218.77	65.31	-1,151.39	-8,354.67	433.11	34.61	398.50	1.087	Level 2	
16,000.00	7,935.86	15,735.56	7,754.96	222.04	221.44	65.31	-1,150.95	-8,454.67	433.11	29.71	403.40	1.074	Level 2	
16,100.00	7,935.86	15,835.56	7,754.96	224.70	224.11	65.31	-1,150.51	-8,554.67	433.11	24.81	408.30	1.061	Level 2	
16,200.00	7,935.86	15,935.56	7,754.96	227.37	226.77	65.31	-1,150.08	-8,654.67	433.11	19.91	413.20	1.048	Level 2	
16,300.00	7,935.86	16,035.56	7,754.96	230.03	229.44	65.31	-1,149.64	-8,754.67	433.11	15.01	418.11	1.036	Level 2	
16,400.00	7,935.86	16,135.56	7,754.96	232.69	232.11	65.31	-1,149.20	-8,854.67	433.11	10.10	423.01	1.024	Level 2	
16,500.00	7,935.85	16,235.56	7,754.96	235.35	234.78	65.31	-1,148.77	-8,954.67	433.11	5.20	427.92	1.012	Level 2	
16,600.00	7,935.85	16,335.56	7,754.96	238.02	237.44	65.31	-1,148.33	-9,054.67	433.12	0.29	432.82	1.001	Level 2	
16,700.00	7,935.85	16,435.56	7,754.96	240.68	240.11	65.31	-1,147.89	-9,154.66	433.12	-4.62	437.73	0.989	Level 1	
16,800.00	7,935.85	16,535.56	7,754.96	243.35	242.78	65.31	-1,147.46	-9,254.66	433.12	-9.52	442.64	0.978	Level 1	
16,900.00	7,935.85	16,635.56	7,754.96	246.01	245.45	65.31	-1,147.02	-9,354.66	433.12	-14.43	447.55	0.968	Level 1	
17,000.00	7,935.85	16,735.56	7,754.96	248.68	248.13	65.31	-1,146.58	-9,454.66	433.12	-19.34	452.46	0.957	Level 1	
17,100.00	7,935.84	16,835.56	7,754.96	251.35	250.80	65.31	-1,146.15	-9,554.66	433.12	-24.25	457.37	0.947	Level 1	
17,200.00	7,935.84	16,935.56	7,754.96	254.02	253.47	65.32	-1,145.71	-9,654.66	433.12	-29.16	462.28	0.937	Level 1	
17,300.00	7,935.84	17,035.56	7,754.96	256.69	256.14	65.32	-1,145.27	-9,754.66	433.12	-34.07	467.19	0.927	Level 1	
17,400.00	7,935.84	17,135.56	7,754.96	259.35	258.81	65.32	-1,144.83	-9,854.66	433.12	-38.98	472.11	0.917	Level 1	
17,500.00	7,935.84	17,235.56	7,754.96	262.02	261.49	65.32	-1,144.40	-9,954.66	433.12	-43.89	477.02	0.908	Level 1	
17,600.00	7,935.83	17,335.56	7,754.96	264.69	264.16	65.32	-1,143.96	-10,054.66	433.13	-48.81	481.93	0.899	Level 1	
17,700.00	7,935.83	17,435.56	7,754.96	267.36	266.84	65.32	-1,143.52	-10,154.65	433.13	-53.72	486.85	0.890	Level 1	
17,800.00	7,935.83	17,535.56	7,754.96	270.03	269.51	65.32	-1,143.09	-10,254.65	433.13	-58.64	491.76	0.881	Level 1	
17,900.00	7,935.83	17,635.56	7,754.95	272.71	272.18	65.32	-1,142.65	-10,354.65	433.13	-63.55	496.68	0.872	Level 1	
18,000.00	7,935.83	17,735.56	7,754.95	275.38	274.86	65.32	-1,142.21	-10,454.65	433.13	-68.47	501.59	0.864	Level 1	
18,100.00	7,935.83	17,835.65	7,754.97	278.05	277.54	65.32	-1,141.78	-10,554.74	433.12	-73.41	506.53	0.855	Level 1	
18,153.00	7,936.00	17,888.65	7,755.00	279.47	278.96	65.29	-1,141.54	-10,607.74	433.05	-75.99	509.04	0.851	Level 1, ES, SF	

Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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 5-6-10
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

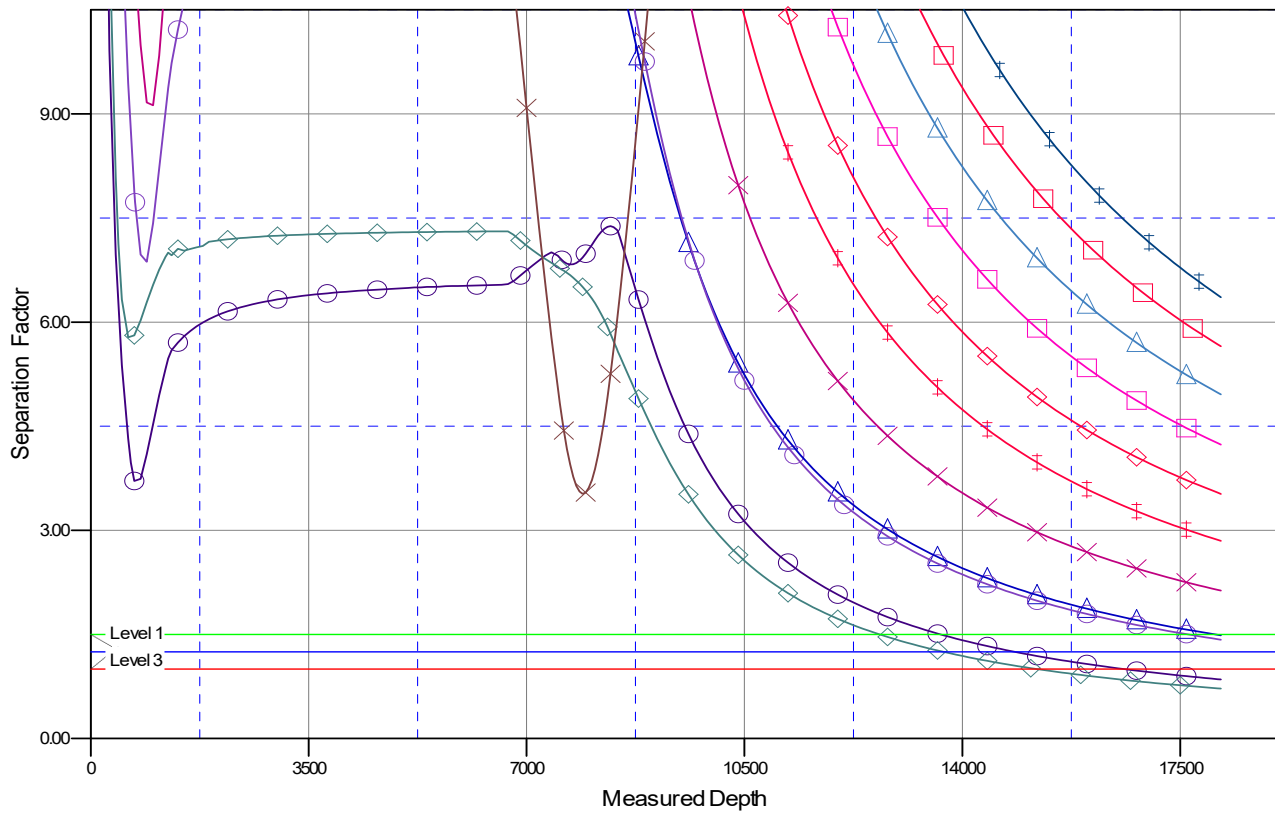
Anticollision Report

Company:	AXIS EXPLORATION	Local Co-ordinate Reference:	Well JAMASO 4-65 5-6-10
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 5-6-10	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 5-6-10
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.53°

Separation Factor Plot



LEGEND

JAMASO 465 5-6-12, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 465 5-6-4, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 465 5-6-9, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 465 5-6-3, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 465 5-6-8, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 465 5-6-7, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 465 5-6-6, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 465 5-6-2, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 465 5-6-11, ORIGINAL WELLBORE, PROPOSAL 1 V0
JAMASO 465 5-6-1, ORIGINAL WELLBORE, PROPOSAL 1 V0	JAMASO 465 5-6-5, ORIGINAL WELLBORE, PROPOSAL 1 V0	EXIST CO PROPERTY RESERVE 4-65 3-4 11 Wellbore #1, Wellbore #1 V0