



Extraction Oil & Gas

Weld Co., Co

Sec.14-T07N-R65W

Burroughs North #03

Original Hole

Rev 0

Anticollision Risk Report

16 July, 2014



Schlumberger

Anticollision Risk Report

PATHFINDER
A Schlumberger Company

Company:	Extraction Oil & Gas	Local Co-ordinate Reference:	Well Burroughs North #03
Project:	Weld Co., Co	TVD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Reference Site:	Sec.14-T07N-R65W	MD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Site Error:	0.00	North Reference:	Grid
Reference Well:	Burroughs North #03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Rev 0	Offset TVD Reference:	Offset Datum

Reference	Rev 0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations Interval 1.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 25,000.00usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Risk Settings	
Vertical Depth for Analysis:	usft (Below TVD Reference Datum)
Level of Acceptable Risk (1 in):	
Minimum Separation:	0 usft

Survey Tool Program	Date	7/16/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,591.44	Rev 0 (Original Hole)	Pathfinder	Pathfinder MWD

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (usft)	Between Ellipses (usft)		
Sec.14-T07N-R65W						
Burroughs North #01 - Original Hole - Rev 0	600.00	600.00	50.28	48.24	24.664 CC, ES	
Burroughs North #01 - Original Hole - Rev 0	12,591.91	12,924.16	589.47	511.47	7.557 SF	
Burroughs North #02 - Original Hole - Rev 0	700.00	700.00	25.14	22.75	10.528 CC, ES	
Burroughs North #02 - Original Hole - Rev 0	12,591.91	12,607.52	336.97	250.14	3.881 SF	
Burroughs North #04 - Original Hole - Rev 0	800.00	800.00	24.41	21.67	8.919 CC, ES	
Burroughs North #04 - Original Hole - Rev 0	12,591.91	12,897.69	350.69	290.10	5.788 SF	
Burroughs North #05 - Original Hole - Rev 0	800.00	800.00	49.91	47.17	18.238 CC, ES	
Burroughs North #05 - Original Hole - Rev 0	12,591.91	12,593.34	322.74	235.90	3.716 SF	
Burroughs North #06 - Original Hole - Rev 0	800.00	800.00	75.05	72.31	27.423 CC, ES	
Burroughs North #06 - Original Hole - Rev 0	12,591.91	12,609.75	652.60	565.70	7.510 SF	
Burroughs North #07 - Original Hole - Rev 0	800.00	800.00	100.19	97.45	36.609 CC, ES	
Burroughs North #07 - Original Hole - Rev 0	12,591.91	12,929.98	873.89	790.46	10.474 SF	
Burroughs South #08 - Original Hole - Rev 0	12,591.91	12,645.83	982.48	894.80	11.205 CC, ES, SF	
Burroughs South #09 - Original Hole - Rev 0	12,591.91	12,624.37	1,312.34	1,224.68	14.971 CC, ES, SF	
Burroughs South #10 - Original Hole - Rev 0	1,075.91	1,131.24	1,439.93	1,436.13	378.856 CC	
Burroughs South #10 - Original Hole - Rev 0	12,591.91	12,929.04	1,510.26	1,423.46	17.398 ES, SF	
Burroughs South #11 - Original Hole - Rev 0	800.00	797.00	1,465.95	1,463.22	536.696 CC, ES	
Burroughs South #11 - Original Hole - Rev 0	12,591.91	12,621.23	1,642.72	1,555.04	18.735 SF	
Burroughs South #12 - Original Hole - Rev 0	800.00	797.00	1,490.98	1,488.25	545.858 CC, ES	
Burroughs South #12 - Original Hole - Rev 0	12,591.91	12,632.46	1,972.77	1,885.05	22.490 SF	
Burroughs South #13 - Original Hole - Rev 0	700.00	697.00	1,516.37	1,513.99	636.497 CC, ES	
Burroughs South #13 - Original Hole - Rev 0	12,591.91	12,943.36	2,153.65	2,066.29	24.655 SF	
Sec.15-T07N-R65W						
Tateyama 15U-434 - Original Hole - Original Hole	12,416.33	6,931.93	58.07	-20.82	0.736 Level 1 , CC, ES, SF	



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Company:	Extraction Oil & Gas	Local Co-ordinate Reference:	Well Burroughs North #03
Project:	Weld Co., Co	TVD Reference:	KB @ 4963.00usft (Xtreme 7 - 16")
Reference Site:	Sec.14-T07N-R65W	MD Reference:	KB @ 4963.00usft (Xtreme 7 - 16")
Site Error:	0.00	North Reference:	Grid
Reference Well:	Burroughs North #03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Rev 0	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 40-Pathfinder													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 (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision		
0.00	0.00	0.00	0.00	0.00	0.00	-82.57	5,340.95							
100.00	100.00	9.00	9.00	0.15	0.01	-82.57	5,340.17	5,340.02	0.16	10,000.000	0			
200.00	200.00	109.00	109.00	0.32	0.16	-82.57	5,340.17	5,339.69	0.49	10,000.000	0			
300.00	300.00	209.00	209.00	0.50	0.34	-82.57	5,340.17	5,339.34	0.83	6,401.032	0			
400.00	400.00	309.00	309.00	0.67	0.51	-82.57	5,340.17	5,338.99	1.18	4,512.822	0			
500.00	500.00	409.00	409.00	0.84	0.69	-82.57	5,340.17	5,338.64	1.53	3,484.845	0			
600.00	600.00	509.00	509.00	1.02	0.86	-82.57	5,340.17	5,338.29	1.88	2,838.306	0			
700.00	700.00	609.00	609.00	1.19	1.04	-82.57	5,340.17	5,337.94	2.23	2,394.127	0			
800.00	800.00	709.00	709.00	1.37	1.21	-82.57	5,340.17	5,337.59	2.58	2,070.158	0			
900.00	899.98	808.98	808.98	1.54	1.39	-141.62	5,341.54	5,338.61	2.93	1,824.314	0			
1,000.00	999.84	908.84	908.84	1.72	1.56	-141.61	5,345.65	5,342.37	3.27	1,632.317	0			
1,100.00	1,099.45	1,431.37	1,430.09	1.90	2.48	-142.08	5,347.04	5,342.67	4.36	1,225.902	0			
1,146.11	1,145.27	1,477.03	1,475.50	1.98	2.56	-142.14	5,347.50	5,342.98	4.52	1,182.782	0			
1,200.00	1,198.77	1,530.35	1,528.52	2.07	2.65	-142.23	5,348.39	5,343.68	4.71	1,135.312	0			
1,300.00	1,298.04	1,629.30	1,626.92	2.25	2.83	-142.38	5,350.08	5,345.02	5.06	1,056.525	0			
1,400.00	1,397.31	1,728.24	1,725.32	2.43	3.01	-142.53	5,351.81	5,346.40	5.42	987.885	0			
1,500.00	1,496.58	1,827.19	1,823.72	2.62	3.19	-142.68	5,353.58	5,347.81	5.77	927.573	0			
1,600.00	1,595.85	1,926.14	1,922.11	2.80	3.36	-142.84	5,355.39	5,349.26	6.13	874.176	0			
1,700.00	1,695.12	2,025.08	2,020.51	2.98	3.54	-142.99	5,357.23	5,350.75	6.48	826.581	0			
1,800.00	1,794.39	2,124.03	2,118.91	3.16	3.72	-143.14	5,359.11	5,352.28	6.84	783.899	0			
1,900.00	1,893.66	2,222.98	2,217.31	3.35	3.90	-143.29	5,361.03	5,353.84	7.19	745.411	0			
2,000.00	1,992.93	2,321.93	2,315.71	3.53	4.08	-143.44	5,362.99	5,355.44	7.55	710.534	0			
2,100.00	2,092.21	2,420.87	2,414.10	3.71	4.26	-143.59	5,364.99	5,357.09	7.90	678.785	0			
2,200.00	2,191.48	2,519.82	2,512.50	3.90	4.44	-143.75	5,367.03	5,358.77	8.26	649.765	0			
2,300.00	2,290.75	2,618.77	2,610.90	4.08	4.62	-143.90	5,369.10	5,360.48	8.62	623.137	0			
2,400.00	2,390.02	2,717.72	2,709.30	4.26	4.80	-144.05	5,371.21	5,362.24	8.97	598.621	0			
2,500.00	2,489.29	2,816.66	2,807.70	4.45	4.98	-144.20	5,373.36	5,364.03	9.33	575.974	0			
2,600.00	2,588.56	2,915.61	2,906.09	4.63	5.16	-144.35	5,375.55	5,365.86	9.69	554.994	0			
2,700.00	2,687.83	3,014.56	3,004.49	4.82	5.34	-144.50	5,377.78	5,367.73	10.04	535.503	0			
2,800.00	2,787.10	3,113.50	3,102.89	5.00	5.52	-144.65	5,380.04	5,369.64	10.40	517.349	0			
2,900.00	2,886.37	3,212.45	3,201.29	5.19	5.70	-144.80	5,382.34	5,371.59	10.76	500.399	0			
3,000.00	2,985.64	3,311.40	3,299.69	5.37	5.88	-144.95	5,384.68	5,373.57	11.11	484.539	0			
3,100.00	3,084.92	3,410.35	3,398.08	5.56	6.06	-145.10	5,387.06	5,375.59	11.47	469.668	0			
3,200.00	3,184.19	3,509.29	3,496.48	5.74	6.24	-145.25	5,389.48	5,377.65	11.83	455.695	0			
3,300.00	3,283.46	3,608.24	3,594.88	5.93	6.42	-145.40	5,391.93	5,379.75	12.18	442.543	0			
3,400.00	3,382.73	3,707.19	3,693.28	6.11	6.60	-145.55	5,394.42	5,381.88	12.54	430.141	0			
3,500.00	3,482.00	3,806.14	3,791.67	6.30	6.78	-145.70	5,396.95	5,384.06	12.90	418.428	0			
3,600.00	3,581.27	3,905.08	3,890.07	6.48	6.96	-145.85	5,399.52	5,386.27	13.26	407.348	0			
3,700.00	3,680.54	4,004.03	3,988.47	6.67	7.14	-146.00	5,402.13	5,388.51	13.61	396.851	0			
3,800.00	3,779.81	4,102.98	4,086.87	6.85	7.32	-146.15	5,404.77	5,390.80	13.97	386.893	0			
3,900.00	3,879.08	4,201.92	4,185.27	7.04	7.50	-146.30	5,407.45	5,393.12	14.33	377.433	0			
4,000.00	3,978.36	4,300.87	4,283.66	7.22	7.68	-146.45	5,410.16	5,395.48	14.68	368.436	0			
4,100.00	4,077.63	4,399.82	4,382.06	7.41	7.86	-146.60	5,412.92	5,397.88	15.04	359.869	0			
4,200.00	4,176.90	4,498.77	4,480.46	7.59	8.04	-146.75	5,415.71	5,400.31	15.40	351.701	0			
4,300.00	4,276.17	4,597.71	4,578.86	7.78	8.22	-146.90	5,418.54	5,402.78	15.76	343.905	0			
4,400.00	4,375.44	4,696.66	4,677.26	7.96	8.40	-147.05	5,421.40	5,405.29	16.11	336.457	0			
4,500.00	4,474.71	4,795.61	4,775.65	8.15	8.59	-147.19	5,424.31	5,407.83	16.47	329.334	0			
4,600.00	4,573.98	4,894.55	4,874.05	8.33	8.77	-147.34	5,427.25	5,410.42	16.83	322.516	0			
4,700.00	4,673.25	4,993.50	4,972.45	8.52	8.95	-147.49	5,430.22	5,413.04	17.19	315.984	0			
4,800.00	4,772.52	5,092.44	5,070.26	8.70	9.13	-147.63	5,433.11	5,415.04	17.55	309.440	0			
4,900.00	4,871.80	5,191.39	5,168.35	8.89	9.31	-147.78	5,436.02	5,417.08	17.91	302.884	0			
5,000.00	4,971.07	5,290.34	5,265.57	9.07	9.49	-147.92	5,438.95	5,419.17	18.27	296.317	0			
5,100.00	5,070.34	5,389.29	5,362.59	9.26	9.68	-148.07	5,441.90	5,421.30	18.63	289.740	0			
5,200.00	5,169.61	5,488.24	5,459.38	9.44	9.86	-148.21	5,444.85	5,423.47	18.99	283.153	0			

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



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Company:	Extraction Oil & Gas	Local Co-ordinate Reference:	Well Burroughs North #03
Project:	Weld Co., Co	TVD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Reference Site:	Sec.14-T07N-R65W	MD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Site Error:	0.00	North Reference:	Grid
Reference Well:	Burroughs North #03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Rev 0	Offset TVD Reference:	Offset Datum

Offset Design													Sec.15-T07N-R65W - Tateyama 15U-434 - Original Hole - Original Hole		Offset Site Error: 0.00 usft	
Survey Program: 40-Pathfinder														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 (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risk Separation Factor	Probability of Collision				
5,300.00	5,268.88	5,268.46	5,246.71	9.63	9.43	-147.82	5,465.41	5,446.67	18.75	291.547	0					
5,400.00	5,368.15	5,320.00	5,298.24	9.81	9.52	-147.86	5,474.90	5,455.89	19.01	287.940	0					
5,500.00	5,467.42	5,398.18	5,376.42	10.00	9.65	-147.91	5,485.09	5,465.76	19.33	283.802	0					
5,600.00	5,566.69	5,497.45	5,475.69	10.19	9.82	-147.98	5,495.33	5,475.65	19.68	279.284	0					
5,700.00	5,665.96	5,596.72	5,574.96	10.37	9.99	-148.04	5,505.57	5,485.54	20.03	274.924	0					
5,800.00	5,765.23	5,695.99	5,674.23	10.56	10.16	-148.11	5,515.82	5,495.44	20.38	270.712	0					
5,900.00	5,864.51	5,795.26	5,773.51	10.74	10.33	-148.17	5,526.08	5,505.35	20.72	266.642	0					
5,927.81	5,892.11	5,822.87	5,801.11	10.79	10.38	-148.19	5,528.93	5,508.11	20.82	265.535	0					
6,000.00	5,963.88	5,894.64	5,872.88	10.92	10.50	-148.31	5,535.57	5,514.49	21.08	262.590	0					
6,100.00	6,063.57	5,994.33	5,972.57	11.10	10.67	-148.42	5,542.22	5,520.80	21.43	258.656	0					
6,200.00	6,163.47	6,094.23	6,072.47	11.27	10.84	-148.48	5,545.91	5,524.15	21.76	254.877	0					
6,273.92	6,237.38	6,168.14	6,146.38	11.40	10.97	-89.43	5,546.72	5,524.57	22.15	250.393	0					
6,300.00	6,263.46	6,194.22	6,172.46	11.44	11.01	-89.43	5,546.72	5,524.48	22.24	249.390	0					
6,373.92	6,337.38	6,268.14	6,246.38	11.56	11.14	-89.43	5,546.72	5,524.23	22.49	246.591	0					
6,400.00	6,363.45	6,294.21	6,272.45	11.60	11.18	0.57	5,546.19	5,523.81	22.38	247.856	0					
6,450.00	6,413.28	6,344.04	6,322.28	11.68	11.27	0.58	5,542.18	5,519.81	22.38	247.683	0					
6,500.00	6,462.64	6,393.40	6,371.64	11.75	11.35	0.58	5,534.28	5,512.00	22.28	248.375	0					
6,550.00	6,511.23	6,441.98	6,420.23	11.82	11.43	0.60	5,522.53	5,500.43	22.10	249.932	0					
6,600.00	6,558.74	6,475.00	6,453.24	11.88	11.49	0.61	5,507.02	5,485.22	21.80	252.638	0					
6,650.00	6,604.89	6,480.00	6,458.24	11.95	11.50	0.63	5,488.09	5,466.72	21.37	256.758	0					
6,700.00	6,649.39	6,480.00	6,458.24	12.00	11.50	0.66	5,465.96	5,445.09	20.87	261.874	0					
6,750.00	6,691.97	6,480.00	6,458.24	12.06	11.50	0.69	5,440.73	5,420.42	20.31	267.893	0					
6,800.00	6,732.36	6,498.22	6,476.46	12.12	11.53	0.73	5,412.25	5,392.53	19.72	274.405	0					
6,850.00	6,770.31	6,520.00	6,498.22	12.18	11.57	0.78	5,381.24	5,362.13	19.10	281.677	0					
6,900.00	6,805.60	6,520.00	6,498.22	12.24	11.57	0.84	5,347.16	5,328.73	18.43	290.128	0					
6,950.00	6,838.00	6,520.00	6,498.22	12.30	11.57	0.91	5,310.55	5,292.80	17.75	299.156	0					
7,000.00	6,867.31	6,520.00	6,498.22	12.36	11.57	1.01	5,271.57	5,254.49	17.09	308.497	0					
7,050.00	6,893.36	6,520.00	6,498.22	12.43	11.57	1.13	5,230.42	5,213.96	16.46	317.755	0					
7,100.00	6,915.97	6,520.00	6,498.22	12.50	11.57	1.29	5,187.30	5,171.40	15.89	326.390	0					
7,150.00	6,935.02	6,520.00	6,498.22	12.58	11.57	1.51	5,142.42	5,127.01	15.41	333.712	0					
7,200.00	6,950.39	6,520.00	6,498.22	12.67	11.57	1.84	5,096.03	5,081.00	15.04	338.933	0					
7,250.00	6,961.98	6,520.00	6,498.22	12.77	11.57	2.36	5,048.38	5,033.58	14.79	341.245	0					
7,300.00	6,969.71	6,520.00	6,498.22	12.89	11.57	3.31	4,999.71	4,985.00	14.71	339.880	0					
7,350.00	6,973.55	6,520.00	6,498.22	13.02	11.57	5.55	4,950.32	4,935.48	14.84	333.607	0					
7,373.92	6,974.00	6,520.00	6,498.22	13.09	11.57	8.18	4,926.52	4,911.46	15.06	327.130	0					
7,400.00	6,974.00	6,520.00	6,498.22	13.16	11.57	4.90	4,900.52	4,885.54	14.98	327.229	0					
7,509.63	6,974.00	6,520.00	6,498.22	13.49	11.57	-8.78	4,791.23	4,775.26	15.98	299.869	0					
7,600.00	6,974.00	6,520.00	6,498.22	13.78	11.57	-8.78	4,701.17	4,684.84	16.33	287.939	0					
7,700.00	6,974.00	6,520.00	6,498.22	14.14	11.57	-8.78	4,601.52	4,584.81	16.71	275.309	0					
7,800.00	6,974.00	6,537.38	6,515.55	14.51	11.59	-9.18	4,501.66	4,484.48	17.18	262.086	0					
7,900.00	6,974.00	6,538.59	6,516.75	14.91	11.60	-9.21	4,402.00	4,384.43	17.57	250.495	0					
8,000.00	6,974.00	6,539.84	6,518.00	15.34	11.60	-9.24	4,302.37	4,284.40	17.97	239.399	0					
8,100.00	6,974.00	6,541.15	6,519.31	15.78	11.60	-9.28	4,202.74	4,184.37	18.37	228.769	0					
8,200.00	6,974.00	6,542.50	6,520.66	16.24	11.60	-9.31	4,103.14	4,084.37	18.77	218.576	0					
8,300.00	6,974.00	6,560.00	6,538.07	16.72	11.63	-9.77	4,003.75	3,984.48	19.27	207.777	0					
8,400.00	6,974.00	6,560.00	6,538.07	17.21	11.63	-9.77	3,904.14	3,884.47	19.67	198.500	0					
8,500.00	6,974.00	6,560.00	6,538.07	17.72	11.63	-9.77	3,804.55	3,784.49	20.07	189.589	0					
8,600.00	6,974.00	6,560.00	6,538.07	18.24	11.63	-9.77	3,704.99	3,684.52	20.47	181.023	0					
8,700.00	6,974.00	6,560.00	6,538.07	18.77	11.63	-9.77	3,605.45	3,584.58	20.87	172.784	0					
8,800.00	6,974.00	6,560.00	6,538.07	19.31	11.63	-9.77	3,505.94	3,484.67	21.27	164.853	0					
8,900.00	6,974.00	6,560.00	6,538.07	19.86	11.63	-9.77	3,406.45	3,384.78	21.67	157.214	0					
9,000.00	6,974.00	6,560.00	6,538.07	20.43	11.63	-9.77	3,307.00	3,284.93	22.07	149.852	0					
9,100.00	6,974.00	6,560.00	6,538.07	21.00	11.63	-9.77	3,207.57	3,185.10	22.47	142.753	0					
9,200.00	6,974.00	6,560.00	6,538.07	21.57	11.63	-9.77	3,108.19	3,085.32	22.87	135.903	0					

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



Schlumberger
Anticollision Risk Report

PATHFINDER
A Schlumberger Company

Company:	Extraction Oil & Gas	Local Co-ordinate Reference:	Well Burroughs North #03
Project:	Weld Co., Co	TVD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Reference Site:	Sec.14-T07N-R65W	MD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Site Error:	0.00	North Reference:	Grid
Reference Well:	Burroughs North #03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Rev 0	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 40-Pathfinder													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 (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision		
9,300.00	6,974.00	6,560.00	6,538.07	22.16	11.63	-9.77	3,008.85	2,985.58	23.27	129.289	0			
9,400.00	6,974.00	6,560.00	6,538.07	22.75	11.63	-9.77	2,909.55	2,885.88	23.67	122.901	0			
9,500.00	6,974.00	6,560.00	6,538.07	23.35	11.63	-9.77	2,810.30	2,786.23	24.08	116.727	0			
9,600.00	6,974.00	6,560.00	6,538.07	23.96	11.63	-9.77	2,711.11	2,686.63	24.48	110.757	0			
9,700.00	6,974.00	6,560.00	6,538.07	24.56	11.63	-9.77	2,611.98	2,587.10	24.88	104.981	0			
9,800.00	6,974.00	6,575.48	6,553.43	25.18	11.66	-10.21	2,512.71	2,487.27	25.45	98.750	0			
9,900.00	6,974.00	6,578.64	6,556.56	25.80	11.66	-10.31	2,413.63	2,387.74	25.89	93.234	0			
10,000.00	6,974.00	6,582.00	6,559.89	26.42	11.67	-10.41	2,314.61	2,288.28	26.34	87.888	0			
10,100.00	6,974.00	6,600.00	6,577.68	27.05	11.70	-11.00	2,215.84	2,188.86	26.98	82.130	0			
10,200.00	6,974.00	6,600.00	6,577.68	27.68	11.70	-11.00	2,116.88	2,089.48	27.40	77.272	0			
10,300.00	6,974.00	6,600.00	6,577.68	28.31	11.70	-11.00	2,018.02	1,990.21	27.81	72.562	0			
10,400.00	6,974.00	6,600.00	6,577.68	28.95	11.70	-11.00	1,919.27	1,891.05	28.23	67.995	0			
10,500.00	6,974.00	6,600.00	6,577.68	29.59	11.70	-11.00	1,820.67	1,792.02	28.64	63.565	0			
10,600.00	6,974.00	6,600.00	6,577.68	30.23	11.70	-11.00	1,722.22	1,693.16	29.06	59.266	0			
10,700.00	6,974.00	6,600.00	6,577.68	30.88	11.70	-11.00	1,623.97	1,594.49	29.48	55.096	0			
10,800.00	6,974.00	6,619.33	6,596.71	31.53	11.73	-11.70	1,525.57	1,495.34	30.23	50.471	0			
10,900.00	6,974.00	6,625.88	6,603.14	32.18	11.74	-11.96	1,427.51	1,396.73	30.78	46.382	0			
11,000.00	6,974.00	6,640.00	6,616.96	32.83	11.76	-12.56	1,329.69	1,298.18	31.50	42.208	0			
11,100.00	6,974.00	6,640.00	6,616.96	33.49	11.76	-12.56	1,231.98	1,200.04	31.94	38.576	0			
11,200.00	6,974.00	6,640.00	6,616.96	34.14	11.76	-12.56	1,134.67	1,102.30	32.37	35.053	0			
11,300.00	6,974.00	6,659.23	6,635.69	34.80	11.79	-13.46	1,037.46	1,004.17	33.30	31.159	0			
11,400.00	6,974.00	6,680.00	6,655.79	35.46	11.82	-14.59	940.81	906.44	34.37	27.372	0			
11,500.00	6,974.00	6,680.00	6,655.79	36.12	11.82	-14.59	844.35	809.52	34.83	24.243	0			
11,600.00	6,974.00	6,695.52	6,670.71	36.79	11.85	-15.56	748.49	712.63	35.86	20.874	0			
11,700.00	6,974.00	6,720.00	6,694.06	37.45	11.88	-17.35	653.37	615.94	37.43	17.458	0			
11,800.00	6,974.00	6,728.51	6,702.12	38.12	11.90	-18.07	558.78	520.41	38.37	14.563	0			
11,900.00	6,974.00	6,748.84	6,721.25	38.79	11.93	-20.02	465.29	425.14	40.15	11.588	0			
12,000.00	6,974.00	6,772.53	6,743.30	39.45	11.96	-22.84	373.10	330.50	42.60	8.758	0			
12,100.00	6,974.00	6,800.00	6,768.52	40.12	12.00	-27.16	282.78	236.54	46.23	6.116	0			
12,200.00	6,974.00	6,833.70	6,798.90	40.80	12.05	-34.86	195.42	142.95	52.47	3.724	0			
12,300.00	6,974.00	6,873.82	6,834.19	41.47	12.12	-50.10	114.44	50.70	63.74	1.796	0			
12,400.00	6,974.00	6,922.89	6,875.91	42.14	12.19	-83.04	59.63	-18.27	77.90	0.765	0		Level 1	
12,416.33	6,974.00	6,931.93	6,883.41	42.25	12.20	-90.40	58.07	-20.82	78.89	0.736	0		Level 1 , CC, ES, SF	
12,500.00	6,974.00	6,983.70	6,925.17	42.81	12.28	-126.14	89.07	21.15	67.92	1.311	0		Level 3	
12,591.45	6,974.00	7,052.69	6,977.43	43.43	12.39	-148.76	148.69	96.07	52.61	2.826	0			
12,591.91	6,974.00	7,053.08	6,977.71	43.44	12.39	-148.84	149.00	96.44	52.56	2.835	0			

Company:	Extraction Oil & Gas	Local Co-ordinate Reference:	Well Burroughs North #03
Project:	Weld Co., Co	TVD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Reference Site:	Sec.14-T07N-R65W	MD Reference:	KB @ 4963.00usft (Xtreme 7 - 16')
Site Error:	0.00	North Reference:	Grid
Reference Well:	Burroughs North #03	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	EDM 5000.1 Single User Db
Reference Design:	Rev 0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 4963.00usft (Xtreme 7 - 16')

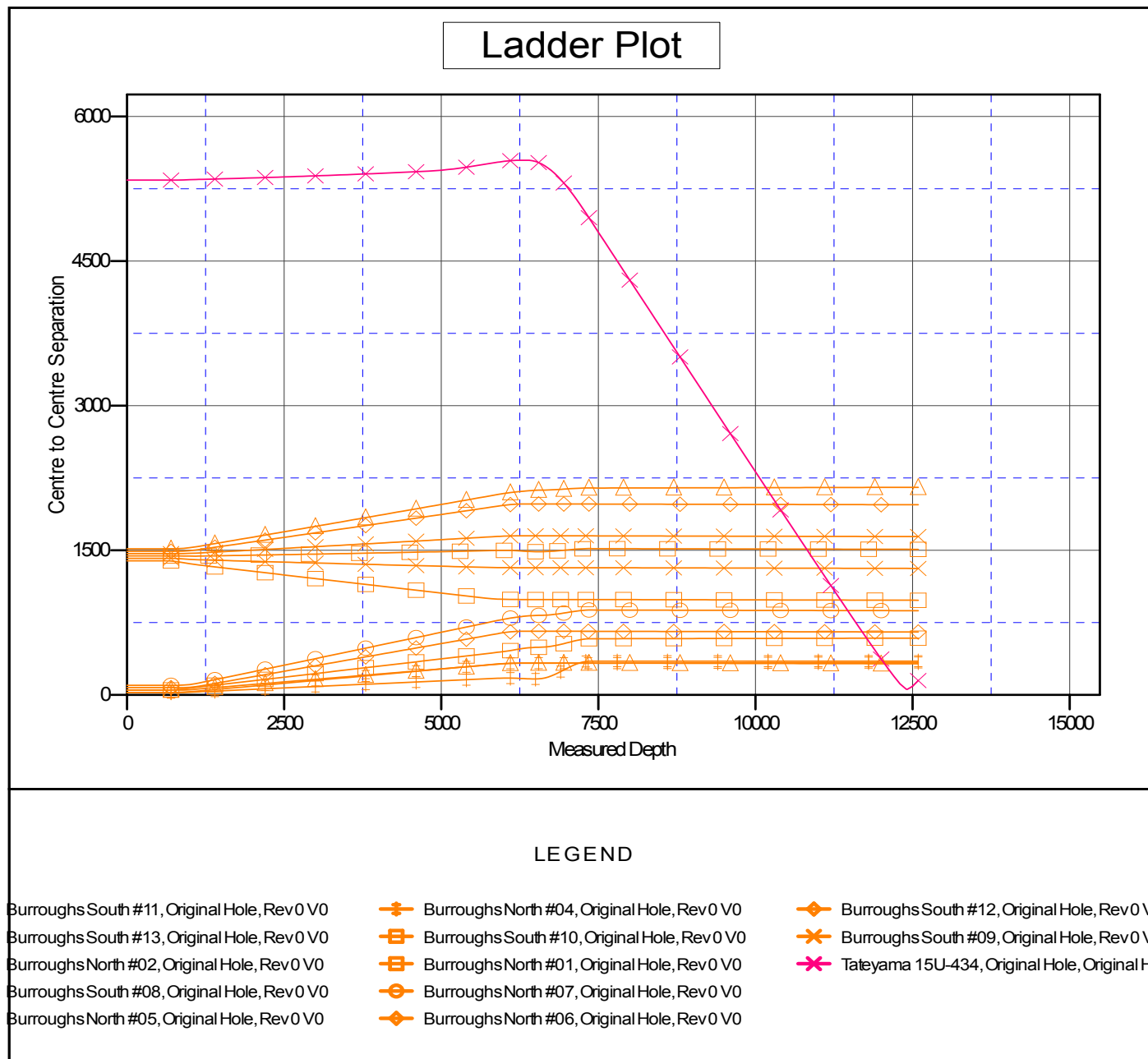
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W °

Coordinates are relative to: Burroughs North #03

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.57°



Coordinates are relative to: Burroughs North #03
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.57°

