



Company: Extraction Oil & Gas  
Field: Weld Co., Co  
Location: Sec.14-T07N-R65W  
Well: Burroughs North #03  
Borehole: Original Hole  
Rig: Xtreme 7  
Plan: Rev 1

**PATHFINDER**  
A Schlumberger Company

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	Begin Nudge
3	1146.11	6.92	59.06	1145.27	10.74	17.91	2.00	59.06	-16.90	Hold Tangent
4	5927.81	6.92	59.06	5892.11	307.00	512.23	0.00	0.00	-483.30	Begin Drop
5	6273.92	0.00	0.00	6237.38	317.74	530.14	2.00	180.00	-500.20	Vertical Point
6	6373.92	0.00	0.00	6337.38	317.74	530.14	0.00	0.00	-500.20	KOP, Build 9°/100' DLS
7	7373.92	90.00	270.00	6974.00	317.74	-106.48	9.00	270.00	133.96	LP, Begin Turn
8	7519.16	90.00	271.45	6974.00	319.58	-251.71	1.00	90.00	278.79	EOT, Hold to TD
9	12258.25	90.00	271.45	6974.00	439.69	-4989.27	0.00	0.00	5008.61	PBHL/TD

#### WELL DETAILS: Burroughs North #03

+N/-S	+E/-W	GL 4947.00	KB @ 4963.00usft (Xtreme 7 - 16')	Longitude
0.00	0.00	Northing 1454717.69	Easting 3244017.80	40° 34' 41.812 N 104° 37' 17.479 W

#### WELLBORE TARGET DETAILS

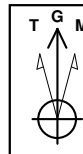
Name	TVD	+N/-S	+E/-W	Shape
KOP BN 3	6237.38	317.74	530.14	Point
LP BN 3	6974.00	317.74	-106.48	Point
PBHL Burroughs North 3	6974.00	439.69	-4989.27	Point

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3640.00	3659.16	Parkman
4455.00	4480.14	Sussex
5860.00	5895.46	Shannon
6974.00	7373.92	Niobrara

#### CASING DETAILS

TVD	MD	Name	Size
6974.00	7373.92	7" Csg	7



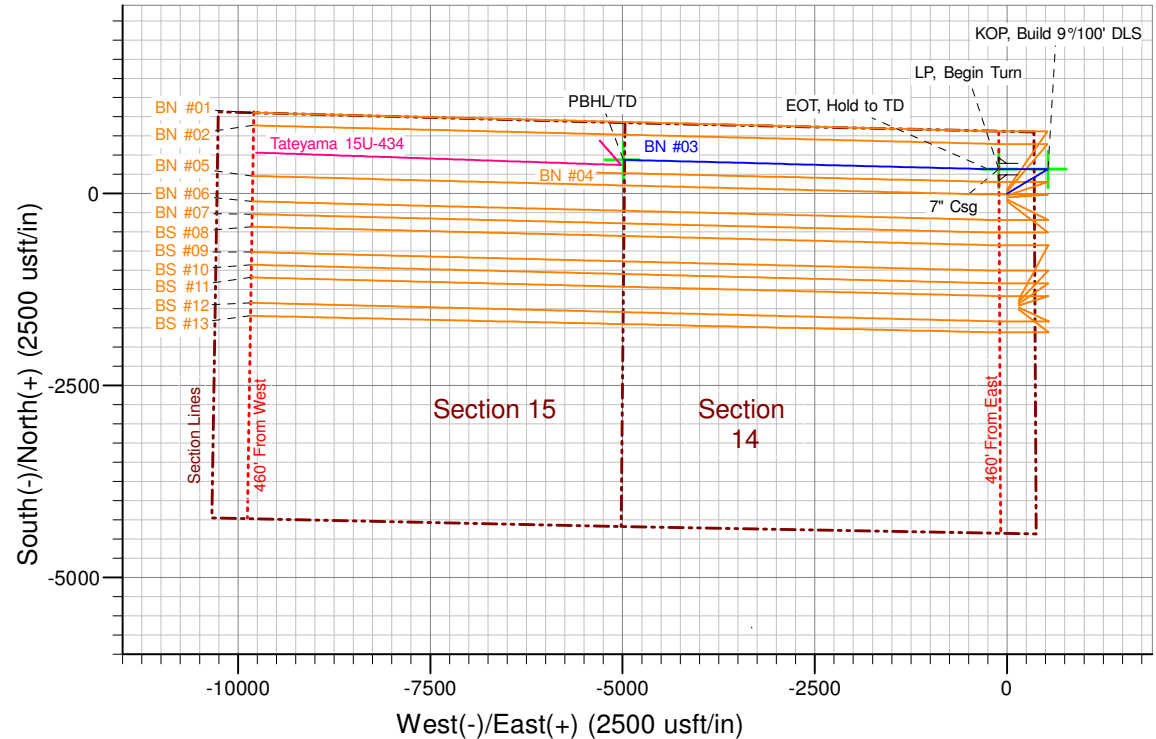
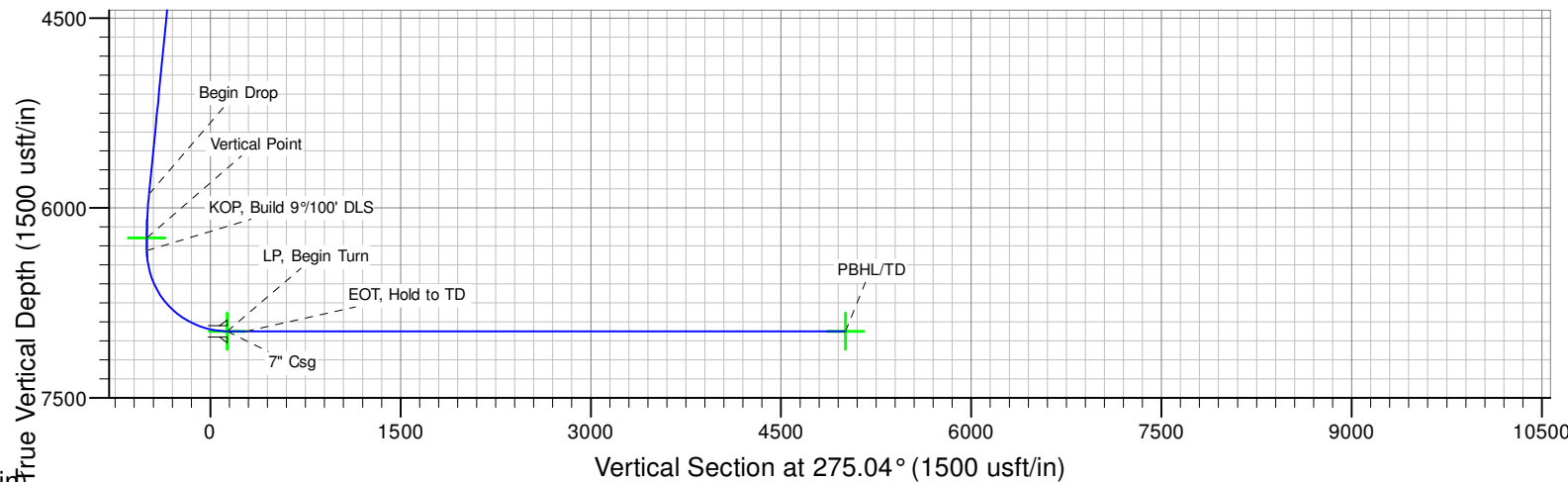
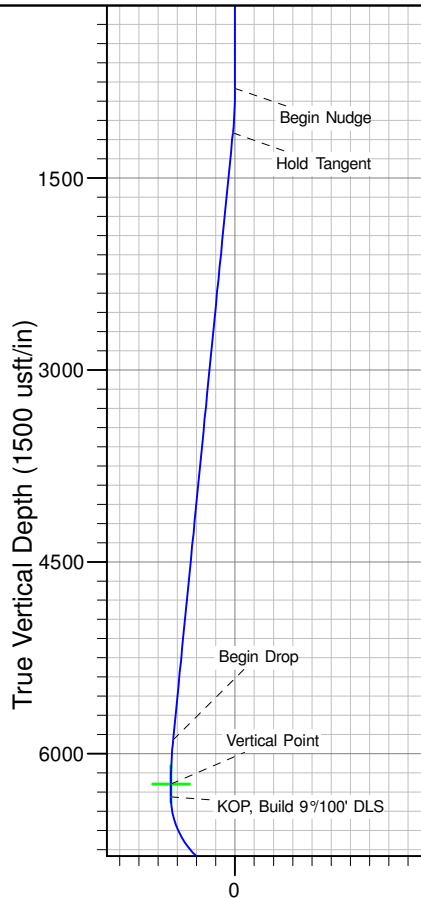
Azimuths to Grid North  
True North: -0.57°  
Magnetic North: 7.82°  
  
Magnetic Field  
Strength: 52913.4nT  
Dip Angle: 67.11°  
Date: 7/15/2014  
Model: IGRF2010

SHL: 810° FNL & 355° FEL  
(Sec.14-T07N-R65W)  
PBHL: 495° FNL & 20° FEL  
(Sec.15-T07N-R65W)

Notice:  
Section Lines and Hardlines  
are estimates only and are  
subject to customer approval

Burroughs North #03 Rev 1

Created By: J Rieke Date: 11:06, September 23 2014





# **Extraction Oil & Gas**

**Weld Co., Co  
Sec.14-T07N-R65W  
Burroughs North #03**

**Original Hole**

**Plan: Rev 1**

## **Standard Planning Report**

**23 September, 2014**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Burroughs North #03
<b>Company:</b>	Extraction Oil & Gas	<b>TVD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16")
<b>Project:</b>	Weld Co., Co	<b>MD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16")
<b>Site:</b>	Sec.14-T07N-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	Burroughs North #03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	Rev 1		

<b>Project</b>	Weld Co., Co		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

<b>Site</b>	Sec.14-T07N-R65W			
<b>Site Position:</b>		<b>Northing:</b>	1,454,767.97 usft	<b>Latitude:</b> 40° 34' 42.308 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,244,017.31 usft	<b>Longitude:</b> 104° 37' 17.479 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.57 °

<b>Well</b>	Burroughs North #03			
<b>Well Position</b>	<b>+N/-S</b>	-50.28 usft	<b>Northing:</b>	1,454,717.69 usft
	<b>+E/-W</b>	0.50 usft	<b>Easting:</b>	3,244,017.80 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	4,963.00 usft
			<b>Ground Level:</b>	4,947.00 usft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/15/2014	8.39	67.11	52,913

<b>Design</b>	Rev 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	275.04

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,146.11	6.92	59.06	1,145.27	10.74	17.91	2.00	2.00	0.00	59.06	
5,927.81	6.92	59.06	5,892.11	307.00	512.23	0.00	0.00	0.00	0.00	
6,273.92	0.00	0.00	6,237.38	317.74	530.14	2.00	-2.00	0.00	180.00	KOP BN 3
6,373.92	0.00	0.00	6,337.38	317.74	530.14	0.00	0.00	0.00	0.00	
7,373.92	90.00	270.00	6,974.00	317.74	-106.48	9.00	9.00	0.00	270.00	LP BN 3
7,519.16	90.00	271.45	6,974.00	319.58	-251.71	1.00	0.00	1.00	90.00	
12,258.25	90.00	271.45	6,974.00	439.69	-4,989.27	0.00	0.00	0.00	0.00	PBHL Burroughs Nort



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<b>Company:</b>	Extraction Oil & Gas	<b>TVD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16')
<b>Project:</b>	Weld Co., Co	<b>MD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16')
<b>Site:</b>	Sec.14-T07N-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	Burroughs North #03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	Rev 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge									
900.00	2.00	59.06	899.98	0.90	1.50	-1.41	2.00	2.00	0.00
1,000.00	4.00	59.06	999.84	3.59	5.99	-5.65	2.00	2.00	0.00
1,100.00	6.00	59.06	1,099.45	8.07	13.46	-12.70	2.00	2.00	0.00
1,146.11	6.92	59.06	1,145.27	10.74	17.91	-16.90	2.00	2.00	0.00
Hold Tangent									
1,200.00	6.92	59.06	1,198.77	14.07	23.48	-22.16	0.00	0.00	0.00
1,300.00	6.92	59.06	1,298.04	20.27	33.82	-31.91	0.00	0.00	0.00
1,400.00	6.92	59.06	1,397.31	26.47	44.16	-41.66	0.00	0.00	0.00
1,500.00	6.92	59.06	1,496.58	32.66	54.50	-51.42	0.00	0.00	0.00
1,600.00	6.92	59.06	1,595.85	38.86	64.83	-61.17	0.00	0.00	0.00
1,700.00	6.92	59.06	1,695.12	45.05	75.17	-70.93	0.00	0.00	0.00
1,800.00	6.92	59.06	1,794.39	51.25	85.51	-80.68	0.00	0.00	0.00
1,900.00	6.92	59.06	1,893.66	57.45	95.85	-90.43	0.00	0.00	0.00
2,000.00	6.92	59.06	1,992.93	63.64	106.18	-100.19	0.00	0.00	0.00
2,100.00	6.92	59.06	2,092.21	69.84	116.52	-109.94	0.00	0.00	0.00
2,200.00	6.92	59.06	2,191.48	76.03	126.86	-119.69	0.00	0.00	0.00
2,300.00	6.92	59.06	2,290.75	82.23	137.20	-129.45	0.00	0.00	0.00
2,400.00	6.92	59.06	2,390.02	88.43	147.53	-139.20	0.00	0.00	0.00
2,500.00	6.92	59.06	2,489.29	94.62	157.87	-148.96	0.00	0.00	0.00
2,600.00	6.92	59.06	2,588.56	100.82	168.21	-158.71	0.00	0.00	0.00
2,700.00	6.92	59.06	2,687.83	107.01	178.55	-168.46	0.00	0.00	0.00
2,800.00	6.92	59.06	2,787.10	113.21	188.89	-178.22	0.00	0.00	0.00
2,900.00	6.92	59.06	2,886.37	119.40	199.22	-187.97	0.00	0.00	0.00
3,000.00	6.92	59.06	2,985.64	125.60	209.56	-197.73	0.00	0.00	0.00
3,100.00	6.92	59.06	3,084.92	131.80	219.90	-207.48	0.00	0.00	0.00
3,200.00	6.92	59.06	3,184.19	137.99	230.24	-217.23	0.00	0.00	0.00
3,300.00	6.92	59.06	3,283.46	144.19	240.57	-226.99	0.00	0.00	0.00
3,400.00	6.92	59.06	3,382.73	150.38	250.91	-236.74	0.00	0.00	0.00
3,500.00	6.92	59.06	3,482.00	156.58	261.25	-246.49	0.00	0.00	0.00
3,600.00	6.92	59.06	3,581.27	162.78	271.59	-256.25	0.00	0.00	0.00
3,659.16	6.92	59.06	3,640.00	166.44	277.70	-262.02	0.00	0.00	0.00
Parkman									
3,700.00	6.92	59.06	3,680.54	168.97	281.92	-266.00	0.00	0.00	0.00
3,800.00	6.92	59.06	3,779.81	175.17	292.26	-275.76	0.00	0.00	0.00
3,900.00	6.92	59.06	3,879.08	181.36	302.60	-285.51	0.00	0.00	0.00
4,000.00	6.92	59.06	3,978.36	187.56	312.94	-295.26	0.00	0.00	0.00
4,100.00	6.92	59.06	4,077.63	193.76	323.28	-305.02	0.00	0.00	0.00
4,200.00	6.92	59.06	4,176.90	199.95	333.61	-314.77	0.00	0.00	0.00
4,300.00	6.92	59.06	4,276.17	206.15	343.95	-324.53	0.00	0.00	0.00
4,400.00	6.92	59.06	4,375.44	212.34	354.29	-334.28	0.00	0.00	0.00
4,480.14	6.92	59.06	4,455.00	217.31	362.57	-342.10	0.00	0.00	0.00
Sussex									
4,500.00	6.92	59.06	4,474.71	218.54	364.63	-344.03	0.00	0.00	0.00
4,600.00	6.92	59.06	4,573.98	224.73	374.96	-353.79	0.00	0.00	0.00

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<b>Site:</b>	Sec.14-T07N-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	Burroughs North #03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	Rev 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.00	6.92	59.06	4,673.25	230.93	385.30	-363.54	0.00	0.00	0.00
4,800.00	6.92	59.06	4,772.52	237.13	395.64	-373.29	0.00	0.00	0.00
4,900.00	6.92	59.06	4,871.80	243.32	405.98	-383.05	0.00	0.00	0.00
5,000.00	6.92	59.06	4,971.07	249.52	416.31	-392.80	0.00	0.00	0.00
5,100.00	6.92	59.06	5,070.34	255.71	426.65	-402.56	0.00	0.00	0.00
5,200.00	6.92	59.06	5,169.61	261.91	436.99	-412.31	0.00	0.00	0.00
5,300.00	6.92	59.06	5,268.88	268.11	447.33	-422.06	0.00	0.00	0.00
5,400.00	6.92	59.06	5,368.15	274.30	457.67	-431.82	0.00	0.00	0.00
5,500.00	6.92	59.06	5,467.42	280.50	468.00	-441.57	0.00	0.00	0.00
5,600.00	6.92	59.06	5,566.69	286.69	478.34	-451.33	0.00	0.00	0.00
5,700.00	6.92	59.06	5,665.96	292.89	488.68	-461.08	0.00	0.00	0.00
5,800.00	6.92	59.06	5,765.23	299.09	499.02	-470.83	0.00	0.00	0.00
5,895.46	6.92	59.06	5,860.00	305.00	508.88	-480.14	0.00	0.00	0.00
<b>Shannon</b>									
5,900.00	6.92	59.06	5,864.51	305.28	509.35	-480.59	0.00	0.00	0.00
5,927.81	6.92	59.06	5,892.11	307.00	512.23	-483.30	0.00	0.00	0.00
<b>Begin Drop</b>									
6,000.00	5.48	59.06	5,963.88	311.01	518.92	-489.61	2.00	-2.00	0.00
6,100.00	3.48	59.06	6,063.57	315.03	525.61	-495.93	2.00	-2.00	0.00
6,200.00	1.48	59.06	6,163.47	317.25	529.32	-499.43	2.00	-2.00	0.00
6,273.92	0.00	0.00	6,237.38	317.74	530.14	-500.20	2.00	-2.00	0.00
<b>Vertical Point</b>									
6,300.00	0.00	0.00	6,263.46	317.74	530.14	-500.20	0.00	0.00	0.00
6,373.92	0.00	0.00	6,337.38	317.74	530.14	-500.20	0.00	0.00	0.00
<b>KOP, Build 9°/100' DLS</b>									
6,400.00	2.35	270.00	6,363.45	317.74	529.61	-499.67	9.00	9.00	0.00
6,500.00	11.35	270.00	6,462.64	317.74	517.70	-487.80	9.00	9.00	0.00
6,600.00	20.35	270.00	6,558.74	317.74	490.42	-460.63	9.00	9.00	0.00
6,700.00	29.35	270.00	6,649.39	317.74	448.44	-418.81	9.00	9.00	0.00
6,800.00	38.35	270.00	6,732.36	317.74	392.80	-363.39	9.00	9.00	0.00
6,900.00	47.35	270.00	6,805.60	317.74	324.86	-295.72	9.00	9.00	0.00
7,000.00	56.35	270.00	6,867.31	317.74	246.31	-217.46	9.00	9.00	0.00
7,100.00	65.35	270.00	6,915.97	317.74	159.06	-130.56	9.00	9.00	0.00
7,200.00	74.35	270.00	6,950.39	317.74	65.28	-37.14	9.00	9.00	0.00
7,300.00	83.35	270.00	6,969.71	317.74	-32.73	60.49	9.00	9.00	0.00
7,373.92	90.00	270.00	6,974.00	317.74	-106.48	133.96	9.00	9.00	0.00
<b>LP, Begin Turn - Niobrara - 7" Csg</b>									
7,400.00	90.00	270.26	6,974.00	317.80	-132.56	159.95	1.00	0.00	1.00
7,500.00	90.00	271.26	6,974.00	319.13	-232.55	259.67	1.00	0.00	1.00
7,519.16	90.00	271.45	6,974.00	319.58	-251.71	278.79	1.00	0.00	1.00
<b>EOT, Hold to TD</b>									
7,600.00	90.00	271.45	6,974.00	321.63	-332.52	359.47	0.00	0.00	0.00
7,700.00	90.00	271.45	6,974.00	324.16	-432.49	459.28	0.00	0.00	0.00
7,800.00	90.00	271.45	6,974.00	326.70	-532.46	559.08	0.00	0.00	0.00
7,900.00	90.00	271.45	6,974.00	329.23	-632.42	658.88	0.00	0.00	0.00
8,000.00	90.00	271.45	6,974.00	331.77	-732.39	758.69	0.00	0.00	0.00
8,100.00	90.00	271.45	6,974.00	334.30	-832.36	858.49	0.00	0.00	0.00
8,200.00	90.00	271.45	6,974.00	336.84	-932.33	958.30	0.00	0.00	0.00
8,300.00	90.00	271.45	6,974.00	339.37	-1,032.29	1,058.10	0.00	0.00	0.00
8,400.00	90.00	271.45	6,974.00	341.90	-1,132.26	1,157.91	0.00	0.00	0.00
8,500.00	90.00	271.45	6,974.00	344.44	-1,232.23	1,257.71	0.00	0.00	0.00
8,600.00	90.00	271.45	6,974.00	346.97	-1,332.20	1,357.52	0.00	0.00	0.00
8,700.00	90.00	271.45	6,974.00	349.51	-1,432.17	1,457.32	0.00	0.00	0.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Burroughs North #03
<b>Company:</b>	Extraction Oil & Gas	<b>TVD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16')
<b>Project:</b>	Weld Co., Co	<b>MD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16')
<b>Site:</b>	Sec.14-T07N-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	Burroughs North #03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	Rev 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,800.00	90.00	271.45	6,974.00	352.04	-1,532.13	1,557.12	0.00	0.00	0.00	
8,900.00	90.00	271.45	6,974.00	354.58	-1,632.10	1,656.93	0.00	0.00	0.00	
9,000.00	90.00	271.45	6,974.00	357.11	-1,732.07	1,756.73	0.00	0.00	0.00	
9,100.00	90.00	271.45	6,974.00	359.65	-1,832.04	1,856.54	0.00	0.00	0.00	
9,200.00	90.00	271.45	6,974.00	362.18	-1,932.01	1,956.34	0.00	0.00	0.00	
9,300.00	90.00	271.45	6,974.00	364.72	-2,031.97	2,056.15	0.00	0.00	0.00	
9,400.00	90.00	271.45	6,974.00	367.25	-2,131.94	2,155.95	0.00	0.00	0.00	
9,500.00	90.00	271.45	6,974.00	369.78	-2,231.91	2,255.75	0.00	0.00	0.00	
9,600.00	90.00	271.45	6,974.00	372.32	-2,331.88	2,355.56	0.00	0.00	0.00	
9,700.00	90.00	271.45	6,974.00	374.85	-2,431.85	2,455.36	0.00	0.00	0.00	
9,800.00	90.00	271.45	6,974.00	377.39	-2,531.81	2,555.17	0.00	0.00	0.00	
9,900.00	90.00	271.45	6,974.00	379.92	-2,631.78	2,654.97	0.00	0.00	0.00	
10,000.00	90.00	271.45	6,974.00	382.46	-2,731.75	2,754.78	0.00	0.00	0.00	
10,100.00	90.00	271.45	6,974.00	384.99	-2,831.72	2,854.58	0.00	0.00	0.00	
10,200.00	90.00	271.45	6,974.00	387.53	-2,931.68	2,954.39	0.00	0.00	0.00	
10,300.00	90.00	271.45	6,974.00	390.06	-3,031.65	3,054.19	0.00	0.00	0.00	
10,400.00	90.00	271.45	6,974.00	392.60	-3,131.62	3,153.99	0.00	0.00	0.00	
10,500.00	90.00	271.45	6,974.00	395.13	-3,231.59	3,253.80	0.00	0.00	0.00	
10,600.00	90.00	271.45	6,974.00	397.66	-3,331.56	3,353.60	0.00	0.00	0.00	
10,700.00	90.00	271.45	6,974.00	400.20	-3,431.52	3,453.41	0.00	0.00	0.00	
10,800.00	90.00	271.45	6,974.00	402.73	-3,531.49	3,553.21	0.00	0.00	0.00	
10,900.00	90.00	271.45	6,974.00	405.27	-3,631.46	3,653.02	0.00	0.00	0.00	
11,000.00	90.00	271.45	6,974.00	407.80	-3,731.43	3,752.82	0.00	0.00	0.00	
11,100.00	90.00	271.45	6,974.00	410.34	-3,831.40	3,852.63	0.00	0.00	0.00	
11,200.00	90.00	271.45	6,974.00	412.87	-3,931.36	3,952.43	0.00	0.00	0.00	
11,300.00	90.00	271.45	6,974.00	415.41	-4,031.33	4,052.23	0.00	0.00	0.00	
11,400.00	90.00	271.45	6,974.00	417.94	-4,131.30	4,152.04	0.00	0.00	0.00	
11,500.00	90.00	271.45	6,974.00	420.48	-4,231.27	4,251.84	0.00	0.00	0.00	
11,600.00	90.00	271.45	6,974.00	423.01	-4,331.23	4,351.65	0.00	0.00	0.00	
11,700.00	90.00	271.45	6,974.00	425.54	-4,431.20	4,451.45	0.00	0.00	0.00	
11,800.00	90.00	271.45	6,974.00	428.08	-4,531.17	4,551.26	0.00	0.00	0.00	
11,900.00	90.00	271.45	6,974.00	430.61	-4,631.14	4,651.06	0.00	0.00	0.00	
12,000.00	90.00	271.45	6,974.00	433.15	-4,731.11	4,750.87	0.00	0.00	0.00	
12,100.00	90.00	271.45	6,974.00	435.68	-4,831.07	4,850.67	0.00	0.00	0.00	
12,200.00	90.00	271.45	6,974.00	438.22	-4,931.04	4,950.47	0.00	0.00	0.00	
12,258.25	90.00	271.45	6,974.00	439.69	-4,989.27	5,008.61	0.00	0.00	0.00	
PBHL/TD										



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Burroughs North #03
<b>Company:</b>	Extraction Oil & Gas	<b>TVD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16')
<b>Project:</b>	Weld Co., Co	<b>MD Reference:</b>	KB @ 4963.00usft (Xtreme 7 - 16')
<b>Site:</b>	Sec.14-T07N-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	Burroughs North #03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	Rev 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP BN 3	0.00	0.00	6,237.38	317.74	530.14	1,455,035.43	3,244,547.94	40° 34' 44.899 N	104° 37' 10.568 W
- plan hits target center									
- Point									
LP BN 3	0.00	0.00	6,974.00	317.74	-106.48	1,455,035.43	3,243,911.32	40° 34' 44.962 N	104° 37' 18.818 W
- plan hits target center									
- Point									
PBHL Burroughs North #03	0.00	0.00	6,974.00	439.69	-4,989.27	1,455,157.39	3,239,028.53	40° 34' 46.640 N	104° 38' 22.082 W
- plan hits target center									
- Point									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
7,373.92	6,974.00	7" Csg	7	7-1/2

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,659.16	3,640.00	Parkman		0.00	
4,480.14	4,455.00	Sussex		0.00	
5,895.46	5,860.00	Shannon		0.00	
7,373.92	6,974.00	Niobrara		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.00	800.00	0.00	0.00	Begin Nudge
1,146.11	1,145.27	10.74	17.91	Hold Tangent
5,927.81	5,892.11	307.00	512.23	Begin Drop
6,273.92	6,237.38	317.74	530.14	Vertical Point
6,373.92	6,337.38	317.74	530.14	KOP, Build 9°/100' DLS
7,373.92	6,974.00	317.74	-106.48	LP, Begin Turn
7,519.16	6,974.00	319.58	-251.71	EOT, Hold to TD
12,258.25	6,974.00	439.69	-4,989.27	PBHL/TD