

EXTRACTION OIL & GAS

SEC 19 T7N R65W

WAAG MIDDLE

WAAG 11 - Slot WAAG 11

Wellbore #1

Plan: Plan #1 07Aug14 mab

Standard Planning Report - Geographic

11 August, 2014

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 11 - Slot WAAG 11
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4901.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4901.0ft (Xtreme 7)
Site:	WAAG MIDDLE	North Reference:	True
Well:	WAAG 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 07Aug14 mab		

Project	SEC 19 T7N R65W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		WAAG MIDDLE			
Site Position:		Northing:	1,448,275.07 ft	Latitude:	40° 33' 40.356 N
From:	Lat/Long	Easting:	3,220,338.91 ft	Longitude:	104° 42' 25.092 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.51 °

Well	WAAG 11 - Slot WAAG 11					
Well Position	+N/-S	0.0 ft	Northing:	1,448,304.24 ft	Latitude:	40° 33' 40.644 N
	+E/-W	0.0 ft	Easting:	3,220,341.42 ft	Longitude:	104° 42' 25.056 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,885.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	8/7/2014	8.42	67.08	52,890

Design	Plan #1 07Aug14 mab				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	274.56	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,137.4	4.75	47.09	1,137.2	6.7	7.2	2.00	2.00	0.00	47.09	
6,315.9	4.75	47.09	6,297.8	298.6	321.2	0.00	0.00	0.00	0.00	
6,553.3	0.00	0.00	6,535.0	305.3	328.4	2.00	-2.00	0.00	180.00	
6,583.3	0.00	0.00	6,565.0	305.3	328.4	0.00	0.00	0.00	0.00	
7,483.3	90.00	270.80	7,138.0	313.3	-244.5	10.00	10.00	0.00	270.80	
11,948.7	90.00	270.80	7,138.0	375.7	-4,709.4	0.00	0.00	0.00	0.00	TD / PBHL WAAG MI

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 11 - Slot WAAG 11
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4901.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4901.0ft (Xtreme 7)
Site:	WAAG MIDDLE	North Reference:	True
Well:	WAAG 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 07Aug14 mab		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
100.0	0.00	0.00	100.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
200.0	0.00	0.00	200.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
300.0	0.00	0.00	300.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
400.0	0.00	0.00	400.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
500.0	0.00	0.00	500.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
600.0	0.00	0.00	600.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
700.0	0.00	0.00	700.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
800.0	0.00	0.00	800.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
850.0	0.00	0.00	850.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
9 5/8"									
900.0	0.00	0.00	900.0	0.0	0.0	1,448,304.24	3,220,341.42	40° 33' 40.644 N	104° 42' 25.056 W
Start Build 2.00									
1,000.0	2.00	47.09	1,000.0	1.2	1.3	1,448,305.44	3,220,342.69	40° 33' 40.656 N	104° 42' 25.039 W
1,100.0	4.00	47.09	1,099.8	4.8	5.1	1,448,309.04	3,220,346.49	40° 33' 40.691 N	104° 42' 24.990 W
1,137.4	4.75	47.09	1,137.2	6.7	7.2	1,448,311.00	3,220,348.57	40° 33' 40.710 N	104° 42' 24.963 W
Hold 4.75° Inc, 47.09° Az									
1,200.0	4.75	47.09	1,199.5	10.2	11.0	1,448,314.56	3,220,352.33	40° 33' 40.745 N	104° 42' 24.914 W
1,300.0	4.75	47.09	1,299.2	15.9	17.1	1,448,320.25	3,220,358.34	40° 33' 40.801 N	104° 42' 24.835 W
1,400.0	4.75	47.09	1,398.8	21.5	23.1	1,448,325.94	3,220,364.35	40° 33' 40.856 N	104° 42' 24.756 W
1,500.0	4.75	47.09	1,498.5	27.1	29.2	1,448,331.63	3,220,370.37	40° 33' 40.912 N	104° 42' 24.678 W
1,600.0	4.75	47.09	1,598.1	32.8	35.2	1,448,337.32	3,220,376.38	40° 33' 40.968 N	104° 42' 24.599 W
1,700.0	4.75	47.09	1,697.8	38.4	41.3	1,448,343.02	3,220,382.39	40° 33' 41.023 N	104° 42' 24.521 W
1,800.0	4.75	47.09	1,797.5	44.0	47.4	1,448,348.71	3,220,388.41	40° 33' 41.079 N	104° 42' 24.442 W
1,900.0	4.75	47.09	1,897.1	49.7	53.4	1,448,354.40	3,220,394.42	40° 33' 41.135 N	104° 42' 24.364 W
2,000.0	4.75	47.09	1,996.8	55.3	59.5	1,448,360.09	3,220,400.43	40° 33' 41.191 N	104° 42' 24.285 W
2,100.0	4.75	47.09	2,096.4	61.0	65.6	1,448,365.78	3,220,406.44	40° 33' 41.246 N	104° 42' 24.206 W
2,200.0	4.75	47.09	2,196.1	66.6	71.6	1,448,371.47	3,220,412.46	40° 33' 41.302 N	104° 42' 24.128 W
2,300.0	4.75	47.09	2,295.7	72.2	77.7	1,448,377.16	3,220,418.47	40° 33' 41.358 N	104° 42' 24.049 W
2,400.0	4.75	47.09	2,395.4	77.9	83.8	1,448,382.85	3,220,424.48	40° 33' 41.413 N	104° 42' 23.971 W
2,500.0	4.75	47.09	2,495.1	83.5	89.8	1,448,388.54	3,220,430.50	40° 33' 41.469 N	104° 42' 23.892 W
2,600.0	4.75	47.09	2,594.7	89.1	95.9	1,448,394.23	3,220,436.51	40° 33' 41.525 N	104° 42' 23.814 W
2,700.0	4.75	47.09	2,694.4	94.8	101.9	1,448,399.93	3,220,442.52	40° 33' 41.581 N	104° 42' 23.735 W
2,800.0	4.75	47.09	2,794.0	100.4	108.0	1,448,405.62	3,220,448.53	40° 33' 41.636 N	104° 42' 23.657 W
2,900.0	4.75	47.09	2,893.7	106.1	114.1	1,448,411.31	3,220,454.55	40° 33' 41.692 N	104° 42' 23.578 W
3,000.0	4.75	47.09	2,993.3	111.7	120.1	1,448,417.00	3,220,460.56	40° 33' 41.748 N	104° 42' 23.499 W
3,100.0	4.75	47.09	3,093.0	117.3	126.2	1,448,422.69	3,220,466.57	40° 33' 41.803 N	104° 42' 23.421 W
3,200.0	4.75	47.09	3,192.6	123.0	132.3	1,448,428.38	3,220,472.59	40° 33' 41.859 N	104° 42' 23.342 W
3,300.0	4.75	47.09	3,292.3	128.6	138.3	1,448,434.07	3,220,478.60	40° 33' 41.915 N	104° 42' 23.264 W
3,400.0	4.75	47.09	3,392.0	134.2	144.4	1,448,439.76	3,220,484.61	40° 33' 41.970 N	104° 42' 23.185 W
3,500.0	4.75	47.09	3,491.6	139.9	150.5	1,448,445.45	3,220,490.62	40° 33' 42.026 N	104° 42' 23.107 W
3,600.0	4.75	47.09	3,591.3	145.5	156.5	1,448,451.14	3,220,496.64	40° 33' 42.082 N	104° 42' 23.028 W
3,618.8	4.75	47.09	3,610.0	146.6	157.7	1,448,452.21	3,220,497.77	40° 33' 42.092 N	104° 42' 23.013 W
PARKMAN									
3,700.0	4.75	47.09	3,690.9	151.1	162.6	1,448,456.84	3,220,502.65	40° 33' 42.138 N	104° 42' 22.949 W
3,800.0	4.75	47.09	3,790.6	156.8	168.6	1,448,462.53	3,220,508.66	40° 33' 42.193 N	104° 42' 22.871 W
3,900.0	4.75	47.09	3,890.2	162.4	174.7	1,448,468.22	3,220,514.68	40° 33' 42.249 N	104° 42' 22.792 W
4,000.0	4.75	47.09	3,989.9	168.1	180.8	1,448,473.91	3,220,520.69	40° 33' 42.305 N	104° 42' 22.714 W
4,100.0	4.75	47.09	4,089.6	173.7	186.8	1,448,479.60	3,220,526.70	40° 33' 42.360 N	104° 42' 22.635 W
4,200.0	4.75	47.09	4,189.2	179.3	192.9	1,448,485.29	3,220,532.71	40° 33' 42.416 N	104° 42' 22.557 W
4,300.0	4.75	47.09	4,288.9	185.0	199.0	1,448,490.98	3,220,538.73	40° 33' 42.472 N	104° 42' 22.478 W
4,348.3	4.75	47.09	4,337.0	187.7	201.9	1,448,493.73	3,220,541.63	40° 33' 42.499 N	104° 42' 22.440 W
SUSSEX									

New Tech

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Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4901.0ft (Xtreme 7)
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Well:	WAAG 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 07Aug14 mab		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,400.0	4.75	47.09	4,388.5	190.6	205.0	1,448,496.67	3,220,544.74	40° 33' 42.527 N	104° 42' 22.399 W
4,500.0	4.75	47.09	4,488.2	196.2	211.1	1,448,502.36	3,220,550.75	40° 33' 42.583 N	104° 42' 22.321 W
4,600.0	4.75	47.09	4,587.8	201.9	217.2	1,448,508.05	3,220,556.77	40° 33' 42.639 N	104° 42' 22.242 W
4,700.0	4.75	47.09	4,687.5	207.5	223.2	1,448,513.75	3,220,562.78	40° 33' 42.695 N	104° 42' 22.164 W
4,742.6	4.75	47.09	4,730.0	209.9	225.8	1,448,516.17	3,220,565.34	40° 33' 42.718 N	104° 42' 22.130 W
SHANNON									
4,800.0	4.75	47.09	4,787.2	213.2	229.3	1,448,519.44	3,220,568.79	40° 33' 42.750 N	104° 42' 22.085 W
4,900.0	4.75	47.09	4,886.8	218.8	235.3	1,448,525.13	3,220,574.80	40° 33' 42.806 N	104° 42' 22.007 W
5,000.0	4.75	47.09	4,986.5	224.4	241.4	1,448,530.82	3,220,580.82	40° 33' 42.862 N	104° 42' 21.928 W
5,100.0	4.75	47.09	5,086.1	230.1	247.5	1,448,536.51	3,220,586.83	40° 33' 42.917 N	104° 42' 21.850 W
5,200.0	4.75	47.09	5,185.8	235.7	253.5	1,448,542.20	3,220,592.84	40° 33' 42.973 N	104° 42' 21.771 W
5,300.0	4.75	47.09	5,285.4	241.3	259.6	1,448,547.89	3,220,598.86	40° 33' 43.029 N	104° 42' 21.692 W
5,400.0	4.75	47.09	5,385.1	247.0	265.7	1,448,553.58	3,220,604.87	40° 33' 43.084 N	104° 42' 21.614 W
5,500.0	4.75	47.09	5,484.8	252.6	271.7	1,448,559.27	3,220,610.88	40° 33' 43.140 N	104° 42' 21.535 W
5,600.0	4.75	47.09	5,584.4	258.2	277.8	1,448,564.96	3,220,616.89	40° 33' 43.196 N	104° 42' 21.457 W
5,700.0	4.75	47.09	5,684.1	263.9	283.9	1,448,570.66	3,220,622.91	40° 33' 43.252 N	104° 42' 21.378 W
5,800.0	4.75	47.09	5,783.7	269.5	289.9	1,448,576.35	3,220,628.92	40° 33' 43.307 N	104° 42' 21.300 W
5,900.0	4.75	47.09	5,883.4	275.2	296.0	1,448,582.04	3,220,634.93	40° 33' 43.363 N	104° 42' 21.221 W
6,000.0	4.75	47.09	5,983.0	280.8	302.0	1,448,587.73	3,220,640.95	40° 33' 43.419 N	104° 42' 21.142 W
6,100.0	4.75	47.09	6,082.7	286.4	308.1	1,448,593.42	3,220,646.96	40° 33' 43.474 N	104° 42' 21.064 W
6,200.0	4.75	47.09	6,182.3	292.1	314.2	1,448,599.11	3,220,652.97	40° 33' 43.530 N	104° 42' 20.985 W
6,300.0	4.75	47.09	6,282.0	297.7	320.2	1,448,604.80	3,220,658.98	40° 33' 43.586 N	104° 42' 20.907 W
6,315.9	4.75	47.09	6,297.8	298.6	321.2	1,448,605.70	3,220,659.94	40° 33' 43.595 N	104° 42' 20.894 W
Start Drop -2.00									
6,400.0	3.07	47.09	6,381.8	302.5	325.4	1,448,609.65	3,220,664.10	40° 33' 43.633 N	104° 42' 20.840 W
6,500.0	1.07	47.09	6,481.7	305.0	328.0	1,448,612.12	3,220,666.72	40° 33' 43.657 N	104° 42' 20.806 W
6,553.3	0.00	0.00	6,535.0	305.3	328.4	1,448,612.47	3,220,667.08	40° 33' 43.661 N	104° 42' 20.801 W
Vertical									
6,583.3	0.00	0.00	6,565.0	305.3	328.4	1,448,612.47	3,220,667.08	40° 33' 43.661 N	104° 42' 20.801 W
KOP 10°/100									
6,600.0	1.67	270.80	6,581.7	305.3	328.2	1,448,612.47	3,220,666.84	40° 33' 43.661 N	104° 42' 20.804 W
6,700.0	11.67	270.80	6,680.9	305.5	316.6	1,448,612.52	3,220,655.24	40° 33' 43.662 N	104° 42' 20.954 W
6,800.0	21.67	270.80	6,776.6	305.9	287.9	1,448,612.67	3,220,626.60	40° 33' 43.666 N	104° 42' 21.325 W
6,900.0	31.67	270.80	6,865.8	306.5	243.1	1,448,612.89	3,220,581.77	40° 33' 43.673 N	104° 42' 21.906 W
7,000.0	41.67	270.80	6,945.9	307.3	183.5	1,448,613.19	3,220,522.13	40° 33' 43.681 N	104° 42' 22.679 W
7,089.7	50.64	270.80	7,008.0	308.2	118.8	1,448,613.52	3,220,457.49	40° 33' 43.690 N	104° 42' 23.516 W
NIOBRARA									
7,100.0	51.67	270.80	7,014.4	308.3	110.8	1,448,613.56	3,220,449.48	40° 33' 43.691 N	104° 42' 23.620 W
7,200.0	61.67	270.80	7,069.3	309.5	27.4	1,448,613.98	3,220,366.04	40° 33' 43.702 N	104° 42' 24.701 W
7,300.0	71.67	270.80	7,108.9	310.8	-64.3	1,448,614.44	3,220,274.34	40° 33' 43.715 N	104° 42' 25.889 W
7,400.0	81.67	270.80	7,131.9	312.1	-161.5	1,448,614.92	3,220,177.16	40° 33' 43.728 N	104° 42' 27.148 W
7,483.3	90.00	270.80	7,138.0	313.3	-244.5	1,448,615.34	3,220,094.13	40° 33' 43.740 N	104° 42' 28.224 W
Landing Pt 90° Inc, 270.80° Az - 7"									
7,500.0	90.00	270.80	7,138.0	313.5	-261.2	1,448,615.42	3,220,077.45	40° 33' 43.742 N	104° 42' 28.440 W
7,600.0	90.00	270.80	7,138.0	314.9	-361.2	1,448,615.93	3,219,977.45	40° 33' 43.756 N	104° 42' 29.736 W
7,700.0	90.00	270.80	7,138.0	316.3	-461.2	1,448,616.43	3,219,877.45	40° 33' 43.770 N	104° 42' 31.031 W
7,800.0	90.00	270.80	7,138.0	317.7	-561.2	1,448,616.93	3,219,777.46	40° 33' 43.784 N	104° 42' 32.327 W
7,900.0	90.00	270.80	7,138.0	319.1	-661.1	1,448,617.43	3,219,677.46	40° 33' 43.797 N	104° 42' 33.622 W
8,000.0	90.00	270.80	7,138.0	320.5	-761.1	1,448,617.93	3,219,577.46	40° 33' 43.811 N	104° 42' 34.918 W
8,100.0	90.00	270.80	7,138.0	321.9	-861.1	1,448,618.44	3,219,477.46	40° 33' 43.825 N	104° 42' 36.213 W
8,200.0	90.00	270.80	7,138.0	323.3	-961.1	1,448,618.94	3,219,377.46	40° 33' 43.839 N	104° 42' 37.509 W
8,300.0	90.00	270.80	7,138.0	324.7	-1,061.1	1,448,619.44	3,219,277.46	40° 33' 43.852 N	104° 42' 38.805 W
8,400.0	90.00	270.80	7,138.0	326.1	-1,161.1	1,448,619.94	3,219,177.46	40° 33' 43.866 N	104° 42' 40.100 W

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 11 - Slot WAAG 11
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4901.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4901.0ft (Xtreme 7)
Site:	WAAG MIDDLE	North Reference:	True
Well:	WAAG 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 07Aug14 mab		

Planned Survey										
Measured			Vertical			Map	Map			
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
8,500.0	90.00	270.80	7,138.0	327.5	-1,261.1	1,448,620.44	3,219,077.46		40° 33' 43.880 N	104° 42' 41.396 W
8,600.0	90.00	270.80	7,138.0	328.9	-1,361.1	1,448,620.95	3,218,977.47		40° 33' 43.894 N	104° 42' 42.691 W
8,700.0	90.00	270.80	7,138.0	330.3	-1,461.1	1,448,621.45	3,218,877.47		40° 33' 43.907 N	104° 42' 43.987 W
8,800.0	90.00	270.80	7,138.0	331.7	-1,561.1	1,448,621.95	3,218,777.47		40° 33' 43.921 N	104° 42' 45.282 W
8,900.0	90.00	270.80	7,138.0	333.1	-1,661.0	1,448,622.45	3,218,677.47		40° 33' 43.935 N	104° 42' 46.578 W
9,000.0	90.00	270.80	7,138.0	334.5	-1,761.0	1,448,622.95	3,218,577.47		40° 33' 43.949 N	104° 42' 47.874 W
9,100.0	90.00	270.80	7,138.0	335.9	-1,861.0	1,448,623.46	3,218,477.47		40° 33' 43.962 N	104° 42' 49.169 W
9,200.0	90.00	270.80	7,138.0	337.3	-1,961.0	1,448,623.96	3,218,377.47		40° 33' 43.976 N	104° 42' 50.465 W
9,300.0	90.00	270.80	7,138.0	338.7	-2,061.0	1,448,624.46	3,218,277.47		40° 33' 43.990 N	104° 42' 51.760 W
9,400.0	90.00	270.80	7,138.0	340.1	-2,161.0	1,448,624.96	3,218,177.48		40° 33' 44.003 N	104° 42' 53.056 W
9,500.0	90.00	270.80	7,138.0	341.5	-2,261.0	1,448,625.46	3,218,077.48		40° 33' 44.017 N	104° 42' 54.351 W
9,600.0	90.00	270.80	7,138.0	342.9	-2,361.0	1,448,625.97	3,217,977.48		40° 33' 44.031 N	104° 42' 55.647 W
9,700.0	90.00	270.80	7,138.0	344.2	-2,461.0	1,448,626.47	3,217,877.48		40° 33' 44.045 N	104° 42' 56.943 W
9,800.0	90.00	270.80	7,138.0	345.6	-2,561.0	1,448,626.97	3,217,777.48		40° 33' 44.058 N	104° 42' 58.238 W
9,900.0	90.00	270.80	7,138.0	347.0	-2,660.9	1,448,627.47	3,217,677.48		40° 33' 44.072 N	104° 42' 59.534 W
10,000.0	90.00	270.80	7,138.0	348.4	-2,760.9	1,448,627.97	3,217,577.48		40° 33' 44.086 N	104° 43' 0.829 W
10,100.0	90.00	270.80	7,138.0	349.8	-2,860.9	1,448,628.48	3,217,477.48		40° 33' 44.099 N	104° 43' 2.125 W
10,200.0	90.00	270.80	7,138.0	351.2	-2,960.9	1,448,628.98	3,217,377.49		40° 33' 44.113 N	104° 43' 3.420 W
10,300.0	90.00	270.80	7,138.0	352.6	-3,060.9	1,448,629.48	3,217,277.49		40° 33' 44.127 N	104° 43' 4.716 W
10,400.0	90.00	270.80	7,138.0	354.0	-3,160.9	1,448,629.98	3,217,177.49		40° 33' 44.140 N	104° 43' 6.011 W
10,500.0	90.00	270.80	7,138.0	355.4	-3,260.9	1,448,630.48	3,217,077.49		40° 33' 44.154 N	104° 43' 7.307 W
10,600.0	90.00	270.80	7,138.0	356.8	-3,360.9	1,448,630.98	3,216,977.49		40° 33' 44.168 N	104° 43' 8.603 W
10,700.0	90.00	270.80	7,138.0	358.2	-3,460.9	1,448,631.49	3,216,877.49		40° 33' 44.181 N	104° 43' 9.898 W
10,800.0	90.00	270.80	7,138.0	359.6	-3,560.9	1,448,631.99	3,216,777.49		40° 33' 44.195 N	104° 43' 11.194 W
10,900.0	90.00	270.80	7,138.0	361.0	-3,660.8	1,448,632.49	3,216,677.49		40° 33' 44.209 N	104° 43' 12.489 W
11,000.0	90.00	270.80	7,138.0	362.4	-3,760.8	1,448,632.99	3,216,577.50		40° 33' 44.222 N	104° 43' 13.785 W
11,100.0	90.00	270.80	7,138.0	363.8	-3,860.8	1,448,633.49	3,216,477.50		40° 33' 44.236 N	104° 43' 15.080 W
11,200.0	90.00	270.80	7,138.0	365.2	-3,960.8	1,448,634.00	3,216,377.50		40° 33' 44.250 N	104° 43' 16.376 W
11,300.0	90.00	270.80	7,138.0	366.6	-4,060.8	1,448,634.50	3,216,277.50		40° 33' 44.263 N	104° 43' 17.672 W
11,400.0	90.00	270.80	7,138.0	368.0	-4,160.8	1,448,635.00	3,216,177.50		40° 33' 44.277 N	104° 43' 18.967 W
11,500.0	90.00	270.80	7,138.0	369.4	-4,260.8	1,448,635.50	3,216,077.50		40° 33' 44.290 N	104° 43' 20.263 W
11,600.0	90.00	270.80	7,138.0	370.8	-4,360.8	1,448,636.00	3,215,977.50		40° 33' 44.304 N	104° 43' 21.558 W
11,700.0	90.00	270.80	7,138.0	372.2	-4,460.8	1,448,636.51	3,215,877.50		40° 33' 44.318 N	104° 43' 22.854 W
11,800.0	90.00	270.80	7,138.0	373.6	-4,560.8	1,448,637.01	3,215,777.51		40° 33' 44.331 N	104° 43' 24.149 W
11,900.0	90.00	270.80	7,138.0	375.0	-4,660.8	1,448,637.51	3,215,677.51		40° 33' 44.345 N	104° 43' 25.445 W
11,948.7	90.00	270.80	7,138.0	375.7	-4,709.4	1,448,637.80	3,215,628.81		40° 33' 44.352 N	104° 43' 26.076 W
TD at 11948.7 - TD / PBHL WAAG MIDDLE 11										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
TD / PBHL WAAG MIDDLE	0.00	0.00	7,138.0	375.7	-4,709.4	1,448,637.80	3,215,628.81	40° 33' 44.352 N	104° 43' 26.076 W	
- plan hits target										
- Point										
LP WAAG MIDDLE 11	0.00	0.00	7,138.0	313.3	-244.5	1,448,615.35	3,220,094.13	40° 33' 43.740 N	104° 42' 28.224 W	
- plan hits target										
- Point										

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 11 - Slot WAAG 11
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4901.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4901.0ft (Xtreme 7)
Site:	WAAG MIDDLE	North Reference:	True
Well:	WAAG 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 07Aug14 mab		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
850.0	850.0	9 5/8"	0	0	
7,483.3	7,138.0	7"	0	0	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3618.80	3610.00	PARKMAN			
4348.30	4337.00	SUSSEX			
4742.60	4730.00	SHANNON			
7089.70	7008.00	NIOBRARA			
	7148.00	NIO B TARGET			
	7292.00	FORT HAYS			
	7325.00	CODELL			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
900.0	900.0	0.0	0.0	Start Build 2.00	
1,137.4	1,137.2	6.7	7.2	Hold 4.75° Inc, 47.09° Az	
6,315.9	6,297.8	298.6	321.2	Start Drop -2.00	
6,553.3	6,535.0	305.3	328.4	Vertical	
6,583.3	6,565.0	305.3	328.4	KOP 10°/100	
7,483.3	7,138.0	313.3	-244.5	Landing Pt 90° Inc, 270.80° Az	
11,948.7	7,138.0	375.7	-4,709.4	TD at 11948.7	