

# **EXTRACTION OIL & GAS**

**SEC 19 T7N R65W**

**WAAG MIDDLE**

**WAAG 6 - Slot WAAG 6**

**Wellbore #1**

**Plan: Plan #1 07Aug14 mab**

## **Standard Planning Report - Geographic**

**11 August, 2014**

# New Tech

## Planning Report - Geographic

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WAAG 6 - Slot WAAG 6
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Project:</b>	SEC 19 T7N R65W	<b>MD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Site:</b>	WAAG MIDDLE	<b>North Reference:</b>	True
<b>Well:</b>	WAAG 6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 07Aug14 mab		

<b>Project</b>	SEC 19 T7N R65W, Weld County, 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		

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 6 - Slot WAAG 6					
Well Position	+N/-S	0.0 ft	Northing:	1,448,446.32 ft	Latitude:	40° 33' 42.048 N
	+E/-W	0.0 ft	Easting:	3,220,340.15 ft	Longitude:	104° 42' 25.056 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,885.0 ft

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

<b>Design</b>	Plan #1 07Aug14 mab			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	284.53

<b>Plan Sections</b>										
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	
1,583.0	13.66	16.26	1,576.6	77.8	22.7	2.00	2.00	0.00	16.26	
5,989.5	13.66	16.26	5,858.4	1,076.9	314.0	0.00	0.00	0.00	0.00	
6,672.6	0.00	0.00	6,535.0	1,154.7	336.7	2.00	-2.00	0.00	180.00	
6,702.6	0.00	0.00	6,565.0	1,154.7	336.7	0.00	0.00	0.00	0.00	
7,602.6	90.00	270.75	7,138.0	1,162.2	-236.2	10.00	10.00	0.00	270.75	
12,078.8	90.00	270.75	7,138.0	1,220.9	-4,712.0	0.00	0.00	0.00	0.00	TD / PBHL WAAG MI

# New Tech

## Planning Report - Geographic

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WAAG 6 - Slot WAAG 6
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Project:</b>	SEC 19 T7N R65W	<b>MD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Site:</b>	WAAG MIDDLE	<b>North Reference:</b>	True
<b>Well:</b>	WAAG 6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
100.0	0.00	0.00	100.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
200.0	0.00	0.00	200.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
300.0	0.00	0.00	300.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
400.0	0.00	0.00	400.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
500.0	0.00	0.00	500.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
600.0	0.00	0.00	600.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
700.0	0.00	0.00	700.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
800.0	0.00	0.00	800.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
850.0	0.00	0.00	850.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
<b>9 5/8"</b>									
900.0	0.00	0.00	900.0	0.0	0.0	1,448,446.32	3,220,340.15	40° 33' 42.048 N	104° 42' 25.056 W
<b>Start Build 2.00</b>									
1,000.0	2.00	16.26	1,000.0	1.7	0.5	1,448,448.00	3,220,340.63	40° 33' 42.065 N	104° 42' 25.050 W
1,100.0	4.00	16.26	1,099.8	6.7	2.0	1,448,453.03	3,220,342.05	40° 33' 42.114 N	104° 42' 25.031 W
1,200.0	6.00	16.26	1,199.5	15.1	4.4	1,448,461.42	3,220,344.41	40° 33' 42.197 N	104° 42' 24.999 W
1,300.0	8.00	16.26	1,298.7	26.8	7.8	1,448,473.15	3,220,347.72	40° 33' 42.312 N	104° 42' 24.955 W
1,400.0	10.00	16.26	1,397.5	41.8	12.2	1,448,488.21	3,220,351.96	40° 33' 42.461 N	104° 42' 24.898 W
1,500.0	12.00	16.26	1,495.6	60.1	17.5	1,448,506.57	3,220,357.14	40° 33' 42.642 N	104° 42' 24.829 W
1,583.0	13.66	16.26	1,576.6	77.8	22.7	1,448,524.32	3,220,362.14	40° 33' 42.817 N	104° 42' 24.762 W
<b>Hold 13.66° Inc, 16.26° Az</b>									
1,600.0	13.66	16.26	1,593.1	81.6	23.8	1,448,528.17	3,220,363.23	40° 33' 42.855 N	104° 42' 24.748 W
1,700.0	13.66	16.26	1,690.2	104.3	30.4	1,448,550.90	3,220,369.64	40° 33' 43.079 N	104° 42' 24.662 W
1,800.0	13.66	16.26	1,787.4	127.0	37.0	1,448,573.64	3,220,376.05	40° 33' 43.303 N	104° 42' 24.576 W
1,900.0	13.66	16.26	1,884.6	149.7	43.6	1,448,596.37	3,220,382.46	40° 33' 43.527 N	104° 42' 24.491 W
2,000.0	13.66	16.26	1,981.8	172.3	50.3	1,448,619.10	3,220,388.86	40° 33' 43.751 N	104° 42' 24.405 W
2,100.0	13.66	16.26	2,078.9	195.0	56.9	1,448,641.83	3,220,395.27	40° 33' 43.975 N	104° 42' 24.319 W
2,200.0	13.66	16.26	2,176.1	217.7	63.5	1,448,664.56	3,220,401.68	40° 33' 44.199 N	104° 42' 24.234 W
2,300.0	13.66	16.26	2,273.3	240.4	70.1	1,448,687.29	3,220,408.09	40° 33' 44.423 N	104° 42' 24.148 W
2,400.0	13.66	16.26	2,370.4	263.0	76.7	1,448,710.03	3,220,414.50	40° 33' 44.647 N	104° 42' 24.062 W
2,500.0	13.66	16.26	2,467.6	285.7	83.3	1,448,732.76	3,220,420.90	40° 33' 44.871 N	104° 42' 23.977 W
2,600.0	13.66	16.26	2,564.8	308.4	89.9	1,448,755.49	3,220,427.31	40° 33' 45.095 N	104° 42' 23.891 W
2,700.0	13.66	16.26	2,661.9	331.1	96.5	1,448,778.22	3,220,433.72	40° 33' 45.319 N	104° 42' 23.805 W
2,800.0	13.66	16.26	2,759.1	353.7	103.1	1,448,800.95	3,220,440.13	40° 33' 45.543 N	104° 42' 23.720 W
2,900.0	13.66	16.26	2,856.3	376.4	109.8	1,448,823.68	3,220,446.54	40° 33' 45.767 N	104° 42' 23.634 W
3,000.0	13.66	16.26	2,953.5	399.1	116.4	1,448,846.41	3,220,452.95	40° 33' 45.991 N	104° 42' 23.548 W
3,100.0	13.66	16.26	3,050.6	421.7	123.0	1,448,869.15	3,220,459.35	40° 33' 46.216 N	104° 42' 23.463 W
3,200.0	13.66	16.26	3,147.8	444.4	129.6	1,448,891.88	3,220,465.76	40° 33' 46.440 N	104° 42' 23.377 W
3,300.0	13.66	16.26	3,245.0	467.1	136.2	1,448,914.61	3,220,472.17	40° 33' 46.664 N	104° 42' 23.291 W
3,400.0	13.66	16.26	3,342.1	489.8	142.8	1,448,937.34	3,220,478.58	40° 33' 46.888 N	104° 42' 23.206 W
3,500.0	13.66	16.26	3,439.3	512.4	149.4	1,448,960.07	3,220,484.99	40° 33' 47.112 N	104° 42' 23.120 W
3,600.0	13.66	16.26	3,536.5	535.1	156.0	1,448,982.80	3,220,491.40	40° 33' 47.336 N	104° 42' 23.034 W
3,675.7	13.66	16.26	3,610.0	552.3	161.0	1,449,000.00	3,220,496.24	40° 33' 47.505 N	104° 42' 22.969 W
<b>PARKMAN</b>									
3,700.0	13.66	16.26	3,633.7	557.8	162.6	1,449,005.54	3,220,497.80	40° 33' 47.560 N	104° 42' 22.949 W
3,800.0	13.66	16.26	3,730.8	580.5	169.3	1,449,028.27	3,220,504.21	40° 33' 47.784 N	104° 42' 22.863 W
3,900.0	13.66	16.26	3,828.0	603.1	175.9	1,449,051.00	3,220,510.62	40° 33' 48.008 N	104° 42' 22.777 W
4,000.0	13.66	16.26	3,925.2	625.8	182.5	1,449,073.73	3,220,517.03	40° 33' 48.232 N	104° 42' 22.692 W
4,100.0	13.66	16.26	4,022.3	648.5	189.1	1,449,096.46	3,220,523.44	40° 33' 48.456 N	104° 42' 22.606 W
4,200.0	13.66	16.26	4,119.5	671.2	195.7	1,449,119.19	3,220,529.85	40° 33' 48.680 N	104° 42' 22.520 W
4,300.0	13.66	16.26	4,216.7	693.8	202.3	1,449,141.92	3,220,536.25	40° 33' 48.904 N	104° 42' 22.435 W
4,400.0	13.66	16.26	4,313.9	716.5	208.9	1,449,164.66	3,220,542.66	40° 33' 49.128 N	104° 42' 22.349 W

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## Planning Report - Geographic

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WAAG 6 - Slot WAAG 6
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Project:</b>	SEC 19 T7N R65W	<b>MD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Site:</b>	WAAG MIDDLE	<b>North Reference:</b>	True
<b>Well:</b>	WAAG 6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
4,423.8	13.66	16.26	4,337.0	721.9	210.5	1,449,170.07	3,220,544.19	40° 33' 49.182 N	104° 42' 22.329 W
<b>SUSSEX</b>									
4,500.0	13.66	16.26	4,411.0	739.2	215.5	1,449,187.39	3,220,549.07	40° 33' 49.352 N	104° 42' 22.263 W
4,600.0	13.66	16.26	4,508.2	761.8	222.1	1,449,210.12	3,220,555.48	40° 33' 49.576 N	104° 42' 22.178 W
4,700.0	13.66	16.26	4,605.4	784.5	228.8	1,449,232.85	3,220,561.89	40° 33' 49.800 N	104° 42' 22.092 W
4,800.0	13.66	16.26	4,702.5	807.2	235.4	1,449,255.58	3,220,568.30	40° 33' 50.024 N	104° 42' 22.006 W
4,828.3	13.66	16.26	4,730.0	813.6	237.2	1,449,262.01	3,220,570.11	40° 33' 50.088 N	104° 42' 21.982 W
<b>SHANNON</b>									
4,900.0	13.66	16.26	4,799.7	829.9	242.0	1,449,278.31	3,220,574.70	40° 33' 50.248 N	104° 42' 21.921 W
5,000.0	13.66	16.26	4,896.9	852.5	248.6	1,449,301.05	3,220,581.11	40° 33' 50.472 N	104° 42' 21.835 W
5,100.0	13.66	16.26	4,994.1	875.2	255.2	1,449,323.78	3,220,587.52	40° 33' 50.697 N	104° 42' 21.749 W
5,200.0	13.66	16.26	5,091.2	897.9	261.8	1,449,346.51	3,220,593.93	40° 33' 50.921 N	104° 42' 21.664 W
5,300.0	13.66	16.26	5,188.4	920.6	268.4	1,449,369.24	3,220,600.34	40° 33' 51.145 N	104° 42' 21.578 W
5,400.0	13.66	16.26	5,285.6	943.2	275.0	1,449,391.97	3,220,606.75	40° 33' 51.369 N	104° 42' 21.492 W
5,500.0	13.66	16.26	5,382.7	965.9	281.6	1,449,414.70	3,220,613.15	40° 33' 51.593 N	104° 42' 21.407 W
5,600.0	13.66	16.26	5,479.9	988.6	288.3	1,449,437.43	3,220,619.56	40° 33' 51.817 N	104° 42' 21.321 W
5,700.0	13.66	16.26	5,577.1	1,011.3	294.9	1,449,460.17	3,220,625.97	40° 33' 52.041 N	104° 42' 21.235 W
5,800.0	13.66	16.26	5,674.3	1,033.9	301.5	1,449,482.90	3,220,632.38	40° 33' 52.265 N	104° 42' 21.150 W
5,900.0	13.66	16.26	5,771.4	1,056.6	308.1	1,449,505.63	3,220,638.79	40° 33' 52.489 N	104° 42' 21.064 W
5,989.5	13.66	16.26	5,858.4	1,076.9	314.0	1,449,525.98	3,220,644.52	40° 33' 52.689 N	104° 42' 20.987 W
<b>Start Drop -2.00</b>									
6,000.0	13.45	16.26	5,868.6	1,079.3	314.7	1,449,528.34	3,220,645.19	40° 33' 52.713 N	104° 42' 20.978 W
6,100.0	11.45	16.26	5,966.2	1,100.0	320.7	1,449,549.09	3,220,651.04	40° 33' 52.917 N	104° 42' 20.900 W
6,200.0	9.45	16.26	6,064.6	1,117.4	325.8	1,449,566.55	3,220,655.96	40° 33' 53.089 N	104° 42' 20.834 W
6,300.0	7.45	16.26	6,163.5	1,131.5	329.9	1,449,580.70	3,220,659.95	40° 33' 53.229 N	104° 42' 20.781 W
6,400.0	5.45	16.26	6,262.8	1,142.3	333.1	1,449,591.51	3,220,663.00	40° 33' 53.335 N	104° 42' 20.740 W
6,500.0	3.45	16.26	6,362.5	1,149.7	335.2	1,449,598.98	3,220,665.10	40° 33' 53.409 N	104° 42' 20.712 W
6,600.0	1.45	16.26	6,462.4	1,153.8	336.4	1,449,603.10	3,220,666.26	40° 33' 53.450 N	104° 42' 20.697 W
6,672.6	0.00	0.00	6,535.0	1,154.7	336.7	1,449,603.98	3,220,666.51	40° 33' 53.458 N	104° 42' 20.693 W
<b>Vertical</b>									
6,700.0	0.00	0.00	6,562.4	1,154.7	336.7	1,449,603.98	3,220,666.51	40° 33' 53.458 N	104° 42' 20.693 W
6,702.6	0.00	0.00	6,565.0	1,154.7	336.7	1,449,603.98	3,220,666.51	40° 33' 53.458 N	104° 42' 20.693 W
<b>KOP 10°/100</b>									
6,800.0	9.74	270.75	6,662.0	1,154.8	328.4	1,449,604.02	3,220,658.25	40° 33' 53.459 N	104° 42' 20.800 W
6,900.0	19.74	270.75	6,758.6	1,155.1	303.0	1,449,604.12	3,220,632.83	40° 33' 53.463 N	104° 42' 21.130 W
7,000.0	29.74	270.75	6,849.3	1,155.7	261.2	1,449,604.29	3,220,591.03	40° 33' 53.468 N	104° 42' 21.671 W
7,100.0	39.74	270.75	6,931.3	1,156.4	204.3	1,449,604.53	3,220,534.11	40° 33' 53.475 N	104° 42' 22.409 W
7,200.0	49.74	270.75	7,002.3	1,157.4	134.0	1,449,604.82	3,220,463.81	40° 33' 53.485 N	104° 42' 23.320 W
7,209.0	50.64	270.75	7,008.0	1,157.4	127.1	1,449,604.85	3,220,456.92	40° 33' 53.485 N	104° 42' 23.409 W
<b>NIOBRARA</b>									
7,300.0	59.74	270.75	7,059.9	1,158.4	52.5	1,449,605.16	3,220,382.25	40° 33' 53.495 N	104° 42' 24.376 W
7,400.0	69.74	270.75	7,102.5	1,159.6	-37.9	1,449,605.53	3,220,291.93	40° 33' 53.507 N	104° 42' 25.547 W
7,500.0	79.74	270.75	7,128.8	1,160.9	-134.2	1,449,605.93	3,220,195.58	40° 33' 53.519 N	104° 42' 26.795 W
7,600.0	89.74	270.75	7,138.0	1,162.2	-233.6	1,449,606.35	3,220,096.12	40° 33' 53.532 N	104° 42' 28.083 W
7,602.6	90.00	270.75	7,138.0	1,162.2	-236.2	1,449,606.36	3,220,093.56	40° 33' 53.532 N	104° 42' 28.117 W
<b>Landing Pt 90° Inc, 270.75° Az - 7"</b>									
7,700.0	90.00	270.75	7,138.0	1,163.5	-333.6	1,449,606.76	3,219,996.13	40° 33' 53.545 N	104° 42' 29.379 W
7,800.0	90.00	270.75	7,138.0	1,164.8	-433.6	1,449,607.18	3,219,896.13	40° 33' 53.558 N	104° 42' 30.675 W
7,900.0	90.00	270.75	7,138.0	1,166.1	-533.6	1,449,607.59	3,219,796.13	40° 33' 53.571 N	104° 42' 31.970 W
8,000.0	90.00	270.75	7,138.0	1,167.4	-633.6	1,449,608.00	3,219,696.13	40° 33' 53.584 N	104° 42' 33.266 W
8,100.0	90.00	270.75	7,138.0	1,168.7	-733.6	1,449,608.42	3,219,596.13	40° 33' 53.597 N	104° 42' 34.562 W
8,200.0	90.00	270.75	7,138.0	1,170.0	-833.6	1,449,608.83	3,219,496.13	40° 33' 53.610 N	104° 42' 35.857 W
8,300.0	90.00	270.75	7,138.0	1,171.3	-933.6	1,449,609.25	3,219,396.13	40° 33' 53.622 N	104° 42' 37.153 W

# New Tech

## Planning Report - Geographic

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WAAG 6 - Slot WAAG 6
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Project:</b>	SEC 19 T7N R65W	<b>MD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Site:</b>	WAAG MIDDLE	<b>North Reference:</b>	True
<b>Well:</b>	WAAG 6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
8,400.0	90.00	270.75	7,138.0	1,172.6	-1,033.6	1,449,609.66	3,219,296.13	40° 33' 53.635 N	104° 42' 38.448 W
8,500.0	90.00	270.75	7,138.0	1,173.9	-1,133.6	1,449,610.08	3,219,196.13	40° 33' 53.648 N	104° 42' 39.744 W
8,600.0	90.00	270.75	7,138.0	1,175.3	-1,233.6	1,449,610.49	3,219,096.13	40° 33' 53.661 N	104° 42' 41.040 W
8,700.0	90.00	270.75	7,138.0	1,176.6	-1,333.6	1,449,610.91	3,218,996.13	40° 33' 53.674 N	104° 42' 42.335 W
8,800.0	90.00	270.75	7,137.9	1,177.9	-1,433.5	1,449,611.32	3,218,896.13	40° 33' 53.687 N	104° 42' 43.631 W
8,900.0	90.00	270.75	7,137.9	1,179.2	-1,533.5	1,449,611.74	3,218,796.14	40° 33' 53.700 N	104° 42' 44.927 W
9,000.0	90.00	270.75	7,137.9	1,180.5	-1,633.5	1,449,612.15	3,218,696.14	40° 33' 53.713 N	104° 42' 46.222 W
9,100.0	90.00	270.75	7,137.9	1,181.8	-1,733.5	1,449,612.57	3,218,596.14	40° 33' 53.726 N	104° 42' 47.518 W
9,200.0	90.00	270.75	7,137.9	1,183.1	-1,833.5	1,449,612.98	3,218,496.14	40° 33' 53.738 N	104° 42' 48.814 W
9,300.0	90.00	270.75	7,137.9	1,184.4	-1,933.5	1,449,613.40	3,218,396.14	40° 33' 53.751 N	104° 42' 50.109 W
9,400.0	90.00	270.75	7,137.9	1,185.7	-2,033.5	1,449,613.81	3,218,296.14	40° 33' 53.764 N	104° 42' 51.405 W
9,500.0	90.00	270.75	7,137.9	1,187.0	-2,133.5	1,449,614.23	3,218,196.14	40° 33' 53.777 N	104° 42' 52.700 W
9,600.0	90.00	270.75	7,137.9	1,188.3	-2,233.5	1,449,614.64	3,218,096.14	40° 33' 53.790 N	104° 42' 53.996 W
9,700.0	90.00	270.75	7,137.9	1,189.7	-2,333.5	1,449,615.05	3,217,996.14	40° 33' 53.803 N	104° 42' 55.292 W
9,800.0	90.00	270.75	7,137.9	1,191.0	-2,433.5	1,449,615.47	3,217,896.14	40° 33' 53.815 N	104° 42' 56.587 W
9,900.0	90.00	270.75	7,137.9	1,192.3	-2,533.4	1,449,615.88	3,217,796.14	40° 33' 53.828 N	104° 42' 57.883 W
10,000.0	90.00	270.75	7,137.9	1,193.6	-2,633.4	1,449,616.30	3,217,696.15	40° 33' 53.841 N	104° 42' 59.179 W
10,100.0	90.00	270.75	7,137.9	1,194.9	-2,733.4	1,449,616.71	3,217,596.15	40° 33' 53.854 N	104° 43' 0.474 W
10,200.0	90.00	270.75	7,137.9	1,196.2	-2,833.4	1,449,617.13	3,217,496.15	40° 33' 53.867 N	104° 43' 1.770 W
10,300.0	90.00	270.75	7,137.9	1,197.5	-2,933.4	1,449,617.54	3,217,396.15	40° 33' 53.880 N	104° 43' 3.066 W
10,400.0	90.00	270.75	7,137.9	1,198.8	-3,033.4	1,449,617.96	3,217,296.15	40° 33' 53.892 N	104° 43' 4.361 W
10,500.0	90.00	270.75	7,137.9	1,200.1	-3,133.4	1,449,618.37	3,217,196.15	40° 33' 53.905 N	104° 43' 5.657 W
10,600.0	90.00	270.75	7,137.9	1,201.4	-3,233.4	1,449,618.79	3,217,096.15	40° 33' 53.918 N	104° 43' 6.952 W
10,700.0	90.00	270.75	7,137.9	1,202.7	-3,333.4	1,449,619.20	3,216,996.15	40° 33' 53.931 N	104° 43' 8.248 W
10,800.0	90.00	270.75	7,137.9	1,204.1	-3,433.4	1,449,619.62	3,216,896.15	40° 33' 53.944 N	104° 43' 9.544 W
10,900.0	90.00	270.75	7,137.9	1,205.4	-3,533.4	1,449,620.03	3,216,796.15	40° 33' 53.956 N	104° 43' 10.839 W
11,000.0	90.00	270.75	7,137.9	1,206.7	-3,633.4	1,449,620.45	3,216,696.15	40° 33' 53.969 N	104° 43' 12.135 W
11,100.0	90.00	270.75	7,137.9	1,208.0	-3,733.3	1,449,620.86	3,216,596.15	40° 33' 53.982 N	104° 43' 13.431 W
11,200.0	90.00	270.75	7,137.9	1,209.3	-3,833.3	1,449,621.27	3,216,496.16	40° 33' 53.995 N	104° 43' 14.726 W
11,300.0	90.00	270.75	7,137.9	1,210.6	-3,933.3	1,449,621.69	3,216,396.16	40° 33' 54.008 N	104° 43' 16.022 W
11,400.0	90.00	270.75	7,137.9	1,211.9	-4,033.3	1,449,622.10	3,216,296.16	40° 33' 54.020 N	104° 43' 17.318 W
11,500.0	90.00	270.75	7,137.9	1,213.2	-4,133.3	1,449,622.52	3,216,196.16	40° 33' 54.033 N	104° 43' 18.613 W
11,600.0	90.00	270.75	7,137.9	1,214.5	-4,233.3	1,449,622.93	3,216,096.16	40° 33' 54.046 N	104° 43' 19.909 W
11,700.0	90.00	270.75	7,137.9	1,215.8	-4,333.3	1,449,623.35	3,215,996.16	40° 33' 54.059 N	104° 43' 21.204 W
11,800.0	90.00	270.75	7,137.9	1,217.1	-4,433.3	1,449,623.76	3,215,896.16	40° 33' 54.071 N	104° 43' 22.500 W
11,900.0	90.00	270.75	7,137.9	1,218.5	-4,533.3	1,449,624.18	3,215,796.16	40° 33' 54.084 N	104° 43' 23.796 W
12,000.0	90.00	270.75	7,137.9	1,219.8	-4,633.3	1,449,624.59	3,215,696.16	40° 33' 54.097 N	104° 43' 25.091 W
12,078.8	90.00	270.75	7,138.0	1,220.9	-4,712.0	1,449,625.02	3,215,617.39	40° 33' 54.108 N	104° 43' 26.112 W

TD at 12078.8 - TD / PBHL WAAG MIDDLE 6

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TD / PBHL WAAG MIDDLE - plan hits target - Point	0.00	0.00	7,138.0	1,220.9	-4,712.0	1,449,625.02	3,215,617.39	40° 33' 54.108 N	104° 43' 26.112 W
LP WAAG MIDDLE 6 - plan hits target - Point	0.00	0.00	7,138.0	1,162.2	-236.2	1,449,606.31	3,220,093.61	40° 33' 53.532 N	104° 42' 28.116 W

# New Tech

## Planning Report - Geographic

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WAAG 6 - Slot WAAG 6
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Project:</b>	SEC 19 T7N R65W	<b>MD Reference:</b>	WELL @ 4901.0ft (Xtreme 7)
<b>Site:</b>	WAAG MIDDLE	<b>North Reference:</b>	True
<b>Well:</b>	WAAG 6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	
7,602.6	7,138.0	7"	0	0	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3675.70	3610.00	PARKMAN			
4423.80	4337.00	SUSSEX			
4828.30	4730.00	SHANNON			
7209.00	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	
1,583.0	1,576.6	77.8	22.7	Hold 13.66° Inc, 16.26° Az	
5,989.5	5,858.4	1,076.9	314.0	Start Drop -2.00	
6,672.6	6,535.0	1,154.7	336.7	Vertical	
6,702.6	6,565.0	1,154.7	336.7	KOP 10°/100	
7,602.6	7,138.0	1,162.2	-236.2	Landing Pt 90° Inc, 270.75° Az	
12,078.8	7,138.0	1,220.9	-4,712.0	TD at 12078.8	