

EXTRACTION OIL & GAS

SEC 19 T7N R65W

WAAG MIDDLE

WAAG 12 - Slot WAAG 12

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 12 - Slot WAAG 12
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 12	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 12 - Slot WAAG 12					
Well Position	+N/-S	0.0 ft	Northing:	1,448,275.07 ft	Latitude:	40° 33' 40.356 N
	+E/-W	0.0 ft	Easting:	3,220,338.91 ft	Longitude:	104° 42' 25.092 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	270.89

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	
1,072.0	3.44	88.76	1,071.9	0.1	5.2	2.00	2.00	0.00	88.76	
6,372.7	3.44	88.76	6,363.1	7.0	323.2	0.00	0.00	0.00	0.00	
6,544.8	0.00	0.00	6,535.0	7.1	328.4	2.00	-2.00	0.00	180.00	
6,574.8	0.00	0.00	6,565.0	7.1	328.4	0.00	0.00	0.00	0.00	
7,474.8	90.00	270.75	7,138.0	14.6	-244.5	10.00	10.00	0.00	270.75	
11,934.6	90.00	270.76	7,138.0	73.3	-4,704.0	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 12 - Slot WAAG 12
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 12	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	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
100.0	0.00	0.00	100.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
200.0	0.00	0.00	200.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
300.0	0.00	0.00	300.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
400.0	0.00	0.00	400.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
500.0	0.00	0.00	500.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
600.0	0.00	0.00	600.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
700.0	0.00	0.00	700.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
800.0	0.00	0.00	800.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
850.0	0.00	0.00	850.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
9 5/8"										
900.0	0.00	0.00	900.0	0.0	0.0	1,448,275.07	3,220,338.91	40° 33' 40.356 N	104° 42' 25.092 W	
Start Build 2.00										
1,000.0	2.00	88.76	1,000.0	0.0	1.7	1,448,275.13	3,220,340.65	40° 33' 40.356 N	104° 42' 25.069 W	
1,072.0	3.44	88.76	1,071.9	0.1	5.2	1,448,275.23	3,220,344.07	40° 33' 40.357 N	104° 42' 25.025 W	
Hold 3.44° Inc, 88.76° Az										
1,100.0	3.44	88.76	1,099.8	0.1	6.8	1,448,275.28	3,220,345.75	40° 33' 40.357 N	104° 42' 25.003 W	
1,200.0	3.44	88.76	1,199.7	0.3	12.8	1,448,275.46	3,220,351.75	40° 33' 40.359 N	104° 42' 24.926 W	
1,300.0	3.44	88.76	1,299.5	0.4	18.8	1,448,275.65	3,220,357.74	40° 33' 40.360 N	104° 42' 24.848 W	
1,400.0	3.44	88.76	1,399.3	0.5	24.8	1,448,275.83	3,220,363.74	40° 33' 40.361 N	104° 42' 24.770 W	
1,500.0	3.44	88.76	1,499.1	0.7	30.8	1,448,276.01	3,220,369.74	40° 33' 40.363 N	104° 42' 24.692 W	
1,600.0	3.44	88.76	1,598.9	0.8	36.8	1,448,276.20	3,220,375.74	40° 33' 40.364 N	104° 42' 24.615 W	
1,700.0	3.44	88.76	1,698.8	0.9	42.8	1,448,276.38	3,220,381.74	40° 33' 40.365 N	104° 42' 24.537 W	
1,800.0	3.44	88.76	1,798.6	1.1	48.8	1,448,276.56	3,220,387.74	40° 33' 40.366 N	104° 42' 24.459 W	
1,900.0	3.44	88.76	1,898.4	1.2	54.8	1,448,276.75	3,220,393.74	40° 33' 40.368 N	104° 42' 24.381 W	
2,000.0	3.44	88.76	1,998.2	1.3	60.8	1,448,276.93	3,220,399.74	40° 33' 40.369 N	104° 42' 24.304 W	
2,100.0	3.44	88.76	2,098.0	1.4	66.8	1,448,277.11	3,220,405.74	40° 33' 40.370 N	104° 42' 24.226 W	
2,200.0	3.44	88.76	2,197.9	1.6	72.8	1,448,277.30	3,220,411.74	40° 33' 40.372 N	104° 42' 24.148 W	
2,300.0	3.44	88.76	2,297.7	1.7	78.8	1,448,277.48	3,220,417.74	40° 33' 40.373 N	104° 42' 24.070 W	
2,400.0	3.44	88.76	2,397.5	1.8	84.8	1,448,277.66	3,220,423.74	40° 33' 40.374 N	104° 42' 23.993 W	
2,500.0	3.44	88.76	2,497.3	2.0	90.8	1,448,277.85	3,220,429.73	40° 33' 40.375 N	104° 42' 23.915 W	
2,600.0	3.44	88.76	2,597.1	2.1	96.9	1,448,278.03	3,220,435.73	40° 33' 40.377 N	104° 42' 23.837 W	
2,700.0	3.44	88.76	2,697.0	2.2	102.9	1,448,278.22	3,220,441.73	40° 33' 40.378 N	104° 42' 23.759 W	
2,800.0	3.44	88.76	2,796.8	2.4	108.9	1,448,278.40	3,220,447.73	40° 33' 40.379 N	104° 42' 23.682 W	
2,900.0	3.44	88.76	2,896.6	2.5	114.9	1,448,278.58	3,220,453.73	40° 33' 40.380 N	104° 42' 23.604 W	
3,000.0	3.44	88.76	2,996.4	2.6	120.9	1,448,278.77	3,220,459.73	40° 33' 40.382 N	104° 42' 23.526 W	
3,100.0	3.44	88.76	3,096.2	2.7	126.9	1,448,278.95	3,220,465.73	40° 33' 40.383 N	104° 42' 23.448 W	
3,200.0	3.44	88.76	3,196.1	2.9	132.9	1,448,279.13	3,220,471.73	40° 33' 40.384 N	104° 42' 23.371 W	
3,300.0	3.44	88.76	3,295.9	3.0	138.9	1,448,279.32	3,220,477.73	40° 33' 40.386 N	104° 42' 23.293 W	
3,400.0	3.44	88.76	3,395.7	3.1	144.9	1,448,279.50	3,220,483.73	40° 33' 40.387 N	104° 42' 23.215 W	
3,500.0	3.44	88.76	3,495.5	3.3	150.9	1,448,279.68	3,220,489.73	40° 33' 40.388 N	104° 42' 23.137 W	
3,600.0	3.44	88.76	3,595.3	3.4	156.9	1,448,279.87	3,220,495.73	40° 33' 40.389 N	104° 42' 23.060 W	
3,614.7	3.44	88.76	3,610.0	3.4	157.7	1,448,279.89	3,220,496.61	40° 33' 40.390 N	104° 42' 23.048 W	
PARKMAN										
3,700.0	3.44	88.76	3,695.2	3.5	162.9	1,448,280.05	3,220,501.73	40° 33' 40.391 N	104° 42' 22.982 W	
3,800.0	3.44	88.76	3,795.0	3.7	168.9	1,448,280.23	3,220,507.72	40° 33' 40.392 N	104° 42' 22.904 W	
3,900.0	3.44	88.76	3,894.8	3.8	174.9	1,448,280.42	3,220,513.72	40° 33' 40.393 N	104° 42' 22.826 W	
4,000.0	3.44	88.76	3,994.6	3.9	180.9	1,448,280.60	3,220,519.72	40° 33' 40.395 N	104° 42' 22.749 W	
4,100.0	3.44	88.76	4,094.4	4.0	186.9	1,448,280.78	3,220,525.72	40° 33' 40.396 N	104° 42' 22.671 W	
4,200.0	3.44	88.76	4,194.3	4.2	192.9	1,448,280.97	3,220,531.72	40° 33' 40.397 N	104° 42' 22.593 W	
4,300.0	3.44	88.76	4,294.1	4.3	198.9	1,448,281.15	3,220,537.72	40° 33' 40.398 N	104° 42' 22.515 W	
4,343.0	3.44	88.76	4,337.0	4.4	201.4	1,448,281.23	3,220,540.30	40° 33' 40.399 N	104° 42' 22.482 W	
SUSSEX										

New Tech
 Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 12 - Slot WAAG 12
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Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4901.0ft (Xtreme 7)
Site:	WAAG MIDDLE	North Reference:	True
Well:	WAAG 12	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	3.44	88.76	4,393.9	4.4	204.9	1,448,281.33	3,220,543.72	40° 33' 40.400 N	104° 42' 22.438 W	
4,500.0	3.44	88.76	4,493.7	4.6	210.9	1,448,281.52	3,220,549.72	40° 33' 40.401 N	104° 42' 22.360 W	
4,600.0	3.44	88.76	4,593.5	4.7	216.9	1,448,281.70	3,220,555.72	40° 33' 40.402 N	104° 42' 22.282 W	
4,700.0	3.44	88.76	4,693.4	4.8	222.9	1,448,281.88	3,220,561.72	40° 33' 40.404 N	104° 42' 22.204 W	
4,736.7	3.44	88.76	4,730.0	4.9	225.1	1,448,281.95	3,220,563.92	40° 33' 40.404 N	104° 42' 22.176 W	
SHANNON										
4,800.0	3.44	88.76	4,793.2	4.9	228.9	1,448,282.07	3,220,567.72	40° 33' 40.405 N	104° 42' 22.127 W	
4,900.0	3.44	88.76	4,893.0	5.1	234.9	1,448,282.25	3,220,573.72	40° 33' 40.406 N	104° 42' 22.049 W	
5,000.0	3.44	88.76	4,992.8	5.2	240.9	1,448,282.43	3,220,579.72	40° 33' 40.407 N	104° 42' 21.971 W	
5,100.0	3.44	88.76	5,092.6	5.3	246.9	1,448,282.62	3,220,585.71	40° 33' 40.409 N	104° 42' 21.893 W	
5,200.0	3.44	88.76	5,192.5	5.5	252.9	1,448,282.80	3,220,591.71	40° 33' 40.410 N	104° 42' 21.816 W	
5,300.0	3.44	88.76	5,292.3	5.6	258.9	1,448,282.98	3,220,597.71	40° 33' 40.411 N	104° 42' 21.738 W	
5,400.0	3.44	88.76	5,392.1	5.7	264.9	1,448,283.17	3,220,603.71	40° 33' 40.413 N	104° 42' 21.660 W	
5,500.0	3.44	88.76	5,491.9	5.9	270.9	1,448,283.35	3,220,609.71	40° 33' 40.414 N	104° 42' 21.582 W	
5,600.0	3.44	88.76	5,591.7	6.0	276.9	1,448,283.53	3,220,615.71	40° 33' 40.415 N	104° 42' 21.505 W	
5,700.0	3.44	88.76	5,691.6	6.1	282.9	1,448,283.72	3,220,621.71	40° 33' 40.416 N	104° 42' 21.427 W	
5,800.0	3.44	88.76	5,791.4	6.2	288.9	1,448,283.90	3,220,627.71	40° 33' 40.418 N	104° 42' 21.349 W	
5,900.0	3.44	88.76	5,891.2	6.4	294.9	1,448,284.08	3,220,633.71	40° 33' 40.419 N	104° 42' 21.271 W	
6,000.0	3.44	88.76	5,991.0	6.5	300.9	1,448,284.27	3,220,639.71	40° 33' 40.420 N	104° 42' 21.194 W	
6,100.0	3.44	88.76	6,090.8	6.6	306.9	1,448,284.45	3,220,645.71	40° 33' 40.422 N	104° 42' 21.116 W	
6,200.0	3.44	88.76	6,190.7	6.8	312.9	1,448,284.63	3,220,651.71	40° 33' 40.423 N	104° 42' 21.038 W	
6,300.0	3.44	88.76	6,290.5	6.9	318.9	1,448,284.82	3,220,657.71	40° 33' 40.424 N	104° 42' 20.960 W	
6,372.7	3.44	88.76	6,363.1	7.0	323.2	1,448,284.95	3,220,662.07	40° 33' 40.425 N	104° 42' 20.904 W	
Start Drop -2.00										
6,400.0	2.90	88.76	6,390.3	7.0	324.7	1,448,285.00	3,220,663.57	40° 33' 40.425 N	104° 42' 20.884 W	
6,500.0	0.90	88.76	6,490.2	7.1	328.1	1,448,285.10	3,220,666.88	40° 33' 40.426 N	104° 42' 20.842 W	
6,544.8	0.00	0.00	6,535.0	7.1	328.4	1,448,285.11	3,220,667.23	40° 33' 40.426 N	104° 42' 20.837 W	
Vertical										
6,574.8	0.00	0.00	6,565.0	7.1	328.4	1,448,285.11	3,220,667.23	40° 33' 40.426 N	104° 42' 20.837 W	
KOP 10°/100										
6,600.0	2.52	270.75	6,590.2	7.1	327.8	1,448,285.11	3,220,666.67	40° 33' 40.426 N	104° 42' 20.844 W	
6,700.0	12.52	270.75	6,689.2	7.3	314.8	1,448,285.16	3,220,653.60	40° 33' 40.428 N	104° 42' 21.014 W	
6,800.0	22.52	270.75	6,784.5	7.7	284.7	1,448,285.29	3,220,623.53	40° 33' 40.432 N	104° 42' 21.403 W	
6,900.0	32.52	270.75	6,873.0	8.3	238.6	1,448,285.48	3,220,577.37	40° 33' 40.438 N	104° 42' 22.001 W	
7,000.0	42.52	270.75	6,952.3	9.1	177.7	1,448,285.73	3,220,516.54	40° 33' 40.446 N	104° 42' 22.789 W	
7,081.2	50.64	270.75	7,008.0	9.8	118.8	1,448,285.98	3,220,457.64	40° 33' 40.453 N	104° 42' 23.552 W	
NIOBRARA										
7,100.0	52.52	270.75	7,019.7	10.0	104.1	1,448,286.04	3,220,442.88	40° 33' 40.455 N	104° 42' 23.744 W	
7,200.0	62.52	270.75	7,073.3	11.1	19.8	1,448,286.39	3,220,358.63	40° 33' 40.466 N	104° 42' 24.835 W	
7,300.0	72.52	270.75	7,111.5	12.3	-72.5	1,448,286.77	3,220,266.34	40° 33' 40.478 N	104° 42' 26.031 W	
7,400.0	82.52	270.75	7,133.1	13.6	-170.0	1,448,287.18	3,220,168.83	40° 33' 40.491 N	104° 42' 27.294 W	
7,474.8	90.00	270.75	7,138.0	14.6	-244.5	1,448,287.48	3,220,094.28	40° 33' 40.500 N	104° 42' 28.260 W	
Landing Pt 90° Inc, 270.75° Az - 7"										
7,500.0	90.00	270.75	7,138.0	14.9	-269.7	1,448,287.59	3,220,069.04	40° 33' 40.503 N	104° 42' 28.587 W	
7,600.0	90.00	270.75	7,138.0	16.2	-369.7	1,448,288.00	3,219,969.04	40° 33' 40.516 N	104° 42' 29.883 W	
7,700.0	90.00	270.75	7,138.0	17.5	-469.7	1,448,288.42	3,219,869.04	40° 33' 40.529 N	104° 42' 31.178 W	
7,800.0	90.00	270.75	7,138.0	18.9	-569.7	1,448,288.83	3,219,769.04	40° 33' 40.542 N	104° 42' 32.474 W	
7,900.0	90.00	270.75	7,138.0	20.2	-669.7	1,448,289.25	3,219,669.04	40° 33' 40.555 N	104° 42' 33.769 W	
8,000.0	90.00	270.75	7,138.0	21.5	-769.7	1,448,289.66	3,219,569.04	40° 33' 40.568 N	104° 42' 35.065 W	
8,100.0	90.00	270.75	7,138.0	22.8	-869.7	1,448,290.08	3,219,469.05	40° 33' 40.581 N	104° 42' 36.360 W	
8,200.0	90.00	270.75	7,137.9	24.1	-969.7	1,448,290.49	3,219,369.05	40° 33' 40.594 N	104° 42' 37.656 W	
8,300.0	90.00	270.75	7,137.9	25.4	-1,069.7	1,448,290.91	3,219,269.05	40° 33' 40.607 N	104° 42' 38.951 W	
8,400.0	90.00	270.75	7,137.9	26.7	-1,169.7	1,448,291.32	3,219,169.05	40° 33' 40.620 N	104° 42' 40.247 W	

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 12 - Slot WAAG 12
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 12	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	
8,500.0	90.00	270.75	7,137.9	28.0	-1,269.7	1,448,291.74	3,219,069.05	40° 33' 40.633 N	104° 42' 41.543 W	
8,600.0	90.00	270.75	7,137.9	29.3	-1,369.6	1,448,292.15	3,218,969.05	40° 33' 40.645 N	104° 42' 42.838 W	
8,700.0	90.00	270.75	7,137.9	30.6	-1,469.6	1,448,292.57	3,218,869.05	40° 33' 40.658 N	104° 42' 44.134 W	
8,800.0	90.00	270.75	7,137.9	31.9	-1,569.6	1,448,292.98	3,218,769.05	40° 33' 40.671 N	104° 42' 45.429 W	
8,900.0	90.00	270.75	7,137.9	33.3	-1,669.6	1,448,293.39	3,218,669.05	40° 33' 40.684 N	104° 42' 46.725 W	
9,000.0	90.00	270.75	7,137.9	34.6	-1,769.6	1,448,293.81	3,218,569.05	40° 33' 40.697 N	104° 42' 48.020 W	
9,100.0	90.00	270.75	7,137.9	35.9	-1,869.6	1,448,294.22	3,218,469.05	40° 33' 40.710 N	104° 42' 49.316 W	
9,200.0	90.00	270.75	7,137.9	37.2	-1,969.6	1,448,294.64	3,218,369.06	40° 33' 40.723 N	104° 42' 50.612 W	
9,300.0	90.00	270.75	7,137.9	38.5	-2,069.6	1,448,295.05	3,218,269.06	40° 33' 40.735 N	104° 42' 51.907 W	
9,400.0	90.00	270.75	7,137.9	39.8	-2,169.6	1,448,295.47	3,218,169.06	40° 33' 40.748 N	104° 42' 53.203 W	
9,500.0	90.00	270.75	7,137.9	41.1	-2,269.6	1,448,295.88	3,218,069.06	40° 33' 40.761 N	104° 42' 54.498 W	
9,600.0	90.00	270.75	7,137.9	42.4	-2,369.6	1,448,296.30	3,217,969.06	40° 33' 40.774 N	104° 42' 55.794 W	
9,700.0	90.00	270.75	7,137.9	43.7	-2,469.6	1,448,296.71	3,217,869.06	40° 33' 40.787 N	104° 42' 57.089 W	
9,800.0	90.00	270.75	7,137.9	45.0	-2,569.5	1,448,297.13	3,217,769.06	40° 33' 40.800 N	104° 42' 58.385 W	
9,900.0	90.00	270.75	7,137.9	46.3	-2,669.5	1,448,297.54	3,217,669.06	40° 33' 40.812 N	104° 42' 59.681 W	
10,000.0	90.00	270.75	7,137.8	47.7	-2,769.5	1,448,297.96	3,217,569.06	40° 33' 40.825 N	104° 43' 0.976 W	
10,100.0	90.01	270.75	7,137.8	49.0	-2,869.5	1,448,298.37	3,217,469.06	40° 33' 40.838 N	104° 43' 2.272 W	
10,200.0	90.01	270.75	7,137.8	50.3	-2,969.5	1,448,298.79	3,217,369.06	40° 33' 40.851 N	104° 43' 3.567 W	
10,300.0	90.01	270.75	7,137.8	51.6	-3,069.5	1,448,299.20	3,217,269.06	40° 33' 40.864 N	104° 43' 4.863 W	
10,400.0	90.01	270.75	7,137.8	52.9	-3,169.5	1,448,299.61	3,217,169.07	40° 33' 40.877 N	104° 43' 6.158 W	
10,500.0	90.01	270.75	7,137.8	54.2	-3,269.5	1,448,300.03	3,217,069.07	40° 33' 40.889 N	104° 43' 7.454 W	
10,600.0	90.01	270.75	7,137.8	55.5	-3,369.5	1,448,300.44	3,216,969.07	40° 33' 40.902 N	104° 43' 8.749 W	
10,700.0	90.01	270.75	7,137.8	56.8	-3,469.5	1,448,300.86	3,216,869.07	40° 33' 40.915 N	104° 43' 10.045 W	
10,800.0	90.01	270.75	7,137.8	58.1	-3,569.5	1,448,301.27	3,216,769.07	40° 33' 40.928 N	104° 43' 11.341 W	
10,900.0	90.01	270.75	7,137.8	59.4	-3,669.5	1,448,301.69	3,216,669.07	40° 33' 40.941 N	104° 43' 12.636 W	
11,000.0	90.01	270.75	7,137.7	60.7	-3,769.4	1,448,302.10	3,216,569.07	40° 33' 40.953 N	104° 43' 13.932 W	
11,100.0	90.01	270.75	7,137.7	62.1	-3,869.4	1,448,302.52	3,216,469.07	40° 33' 40.966 N	104° 43' 15.227 W	
11,200.0	90.01	270.75	7,137.7	63.4	-3,969.4	1,448,302.93	3,216,369.07	40° 33' 40.979 N	104° 43' 16.523 W	
11,300.0	90.01	270.75	7,137.7	64.7	-4,069.4	1,448,303.35	3,216,269.07	40° 33' 40.992 N	104° 43' 17.818 W	
11,400.0	90.01	270.75	7,137.7	66.0	-4,169.4	1,448,303.76	3,216,169.07	40° 33' 41.004 N	104° 43' 19.114 W	
11,500.0	90.01	270.75	7,137.7	67.3	-4,269.4	1,448,304.18	3,216,069.07	40° 33' 41.017 N	104° 43' 20.410 W	
11,600.0	90.01	270.75	7,137.7	68.6	-4,369.4	1,448,304.59	3,215,969.08	40° 33' 41.030 N	104° 43' 21.705 W	
11,700.0	90.01	270.75	7,137.7	69.9	-4,469.4	1,448,305.01	3,215,869.08	40° 33' 41.043 N	104° 43' 23.001 W	
11,800.0	90.01	270.75	7,137.6	71.2	-4,569.4	1,448,305.42	3,215,769.08	40° 33' 41.055 N	104° 43' 24.296 W	
11,900.0	90.01	270.75	7,137.6	72.5	-4,669.4	1,448,305.84	3,215,669.08	40° 33' 41.068 N	104° 43' 25.592 W	
11,934.6	90.00	270.76	7,138.0	73.3	-4,704.0	1,448,306.31	3,215,634.49	40° 33' 41.076 N	104° 43' 26.040 W	
TD at 11934.6 - TD / PBHL WAAG MIDDLE 12										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
LP WAAG MIDDLE 12 - hit/miss target - Shape	0.00	0.00	7,138.0	14.6	-244.5	1,448,287.46	3,220,094.28	40° 33' 40.500 N	104° 42' 28.260 W	
TD / PBHL WAAG MIDC - plan hits target - Point	0.00	0.00	7,138.0	73.3	-4,704.0	1,448,306.31	3,215,634.49	40° 33' 41.076 N	104° 43' 26.040 W	

New Tech
 Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 12 - Slot WAAG 12
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 12	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	
7,474.8	7,138.0	7"		0	0	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3614.70	3610.00	PARKMAN				
4343.00	4337.00	SUSSEX				
4736.70	4730.00	SHANNON				
7081.20	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		Comment	
		+N/-S (ft)	+E/-W (ft)		
900.0	900.0	0.0	0.0	Start Build 2.00	
1,072.0	1,071.9	0.1	5.2	Hold 3.44° Inc, 88.76° Az	
6,372.7	6,363.1	7.0	323.2	Start Drop -2.00	
6,544.8	6,535.0	7.1	328.4	Vertical	
6,574.8	6,565.0	7.1	328.4	KOP 10°/100	
7,474.8	7,138.0	14.6	-244.5	Landing Pt 90° Inc, 270.75° Az	
11,934.6	7,138.0	73.3	-4,704.0	TD at 11934.6	