

EXTRACTION OIL & GAS

SEC 19 T7N R65W

WAAG SOUTH

WAAG 19 - Slot WAAG 19

Wellbore #1

Plan: Plan #1 03Aug14 mab

Standard Planning Report - Geographic

14 August, 2014

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 19 - Slot WAAG 19
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4884.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4884.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 19	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 03Aug14 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 SOUTH			
Site Position:		Northing:	1,445,760.46 ft	Latitude:	40° 33' 15.516 N
From:	Lat/Long	Easting:	3,220,253.02 ft	Longitude:	104° 42' 26.496 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.51 °

Well	WAAG 19 - Slot WAAG 19					
Well Position	+N/-S	0.0 ft	Northing:	1,445,819.26 ft	Latitude:	40° 33' 16.092 N
	+E/-W	0.0 ft	Easting:	3,220,310.85 ft	Longitude:	104° 42' 25.740 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,868.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	8/3/2014	8.42	67.08	52,887

Design	Plan #1 03Aug14 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	282.25

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	
1,448.5	10.97	21.03	1,445.1	48.9	18.8	2.00	2.00	0.00	21.03	
6,278.5	10.97	21.03	6,186.9	906.7	348.5	0.00	0.00	0.00	0.00	
6,826.9	0.00	0.00	6,732.0	955.6	367.3	2.00	-2.00	0.00	180.00	
6,856.9	0.00	0.00	6,762.0	955.6	367.3	0.00	0.00	0.00	0.00	
7,756.9	90.00	270.62	7,335.0	961.8	-205.6	10.00	10.00	0.00	270.62	
12,200.2	90.00	270.61	7,335.0	1,009.6	-4,648.7	0.00	0.00	0.00	0.00	TD / PBHL WAAG SC

New Tech

Planning Report - Geographic

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Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4884.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4884.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 19	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 03Aug14 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	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
100.0	0.00	0.00	100.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
200.0	0.00	0.00	200.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
300.0	0.00	0.00	300.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
400.0	0.00	0.00	400.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
500.0	0.00	0.00	500.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
600.0	0.00	0.00	600.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
700.0	0.00	0.00	700.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
800.0	0.00	0.00	800.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
850.0	0.00	0.00	850.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
9 5/8"									
900.0	0.00	0.00	900.0	0.0	0.0	1,445,819.26	3,220,310.85	40° 33' 16.092 N	104° 42' 25.740 W
Start Build 2.00									
1,000.0	2.00	21.03	1,000.0	1.6	0.6	1,445,820.90	3,220,311.46	40° 33' 16.108 N	104° 42' 25.732 W
1,100.0	4.00	21.03	1,099.8	6.5	2.5	1,445,825.80	3,220,313.30	40° 33' 16.156 N	104° 42' 25.708 W
1,200.0	6.00	21.03	1,199.5	14.6	5.6	1,445,833.96	3,220,316.35	40° 33' 16.237 N	104° 42' 25.667 W
1,300.0	8.00	21.03	1,298.7	26.0	10.0	1,445,845.38	3,220,320.62	40° 33' 16.349 N	104° 42' 25.610 W
1,400.0	10.00	21.03	1,397.5	40.6	15.6	1,445,860.03	3,220,326.10	40° 33' 16.493 N	104° 42' 25.538 W
1,448.5	10.97	21.03	1,445.1	48.9	18.8	1,445,868.29	3,220,329.19	40° 33' 16.575 N	104° 42' 25.497 W
Hold 10.97° Inc, 21.03° Az									
1,500.0	10.97	21.03	1,495.7	58.0	22.3	1,445,877.47	3,220,332.63	40° 33' 16.665 N	104° 42' 25.451 W
1,600.0	10.97	21.03	1,593.9	75.8	29.1	1,445,895.29	3,220,339.30	40° 33' 16.841 N	104° 42' 25.363 W
1,700.0	10.97	21.03	1,692.1	93.5	36.0	1,445,913.11	3,220,345.96	40° 33' 17.016 N	104° 42' 25.274 W
1,800.0	10.97	21.03	1,790.2	111.3	42.8	1,445,930.94	3,220,352.63	40° 33' 17.192 N	104° 42' 25.186 W
1,900.0	10.97	21.03	1,888.4	129.1	49.6	1,445,948.76	3,220,359.30	40° 33' 17.367 N	104° 42' 25.097 W
2,000.0	10.97	21.03	1,986.6	146.8	56.4	1,445,966.58	3,220,365.97	40° 33' 17.543 N	104° 42' 25.009 W
2,100.0	10.97	21.03	2,084.8	164.6	63.3	1,445,984.40	3,220,372.64	40° 33' 17.718 N	104° 42' 24.920 W
2,200.0	10.97	21.03	2,182.9	182.3	70.1	1,446,002.22	3,220,379.30	40° 33' 17.894 N	104° 42' 24.832 W
2,300.0	10.97	21.03	2,281.1	200.1	76.9	1,446,020.05	3,220,385.97	40° 33' 18.069 N	104° 42' 24.744 W
2,400.0	10.97	21.03	2,379.3	217.9	83.7	1,446,037.87	3,220,392.64	40° 33' 18.245 N	104° 42' 24.655 W
2,500.0	10.97	21.03	2,477.4	235.6	90.6	1,446,055.69	3,220,399.31	40° 33' 18.420 N	104° 42' 24.567 W
2,600.0	10.97	21.03	2,575.6	253.4	97.4	1,446,073.51	3,220,405.97	40° 33' 18.596 N	104° 42' 24.478 W
2,700.0	10.97	21.03	2,673.8	271.1	104.2	1,446,091.33	3,220,412.64	40° 33' 18.771 N	104° 42' 24.390 W
2,800.0	10.97	21.03	2,772.0	288.9	111.0	1,446,109.16	3,220,419.31	40° 33' 18.947 N	104° 42' 24.301 W
2,900.0	10.97	21.03	2,870.1	306.7	117.9	1,446,126.98	3,220,425.98	40° 33' 19.122 N	104° 42' 24.213 W
3,000.0	10.97	21.03	2,968.3	324.4	124.7	1,446,144.80	3,220,432.65	40° 33' 19.298 N	104° 42' 24.124 W
3,100.0	10.97	21.03	3,066.5	342.2	131.5	1,446,162.62	3,220,439.31	40° 33' 19.473 N	104° 42' 24.036 W
3,200.0	10.97	21.03	3,164.7	360.0	138.4	1,446,180.44	3,220,445.98	40° 33' 19.649 N	104° 42' 23.948 W
3,300.0	10.97	21.03	3,262.8	377.7	145.2	1,446,198.27	3,220,452.65	40° 33' 19.824 N	104° 42' 23.859 W
3,400.0	10.97	21.03	3,361.0	395.5	152.0	1,446,216.09	3,220,459.32	40° 33' 20.000 N	104° 42' 23.771 W
3,500.0	10.97	21.03	3,459.2	413.2	158.8	1,446,233.91	3,220,465.99	40° 33' 20.175 N	104° 42' 23.682 W
3,600.0	10.97	21.03	3,557.3	431.0	165.7	1,446,251.73	3,220,472.65	40° 33' 20.351 N	104° 42' 23.594 W
3,653.6	10.97	21.03	3,610.0	440.5	169.3	1,446,261.29	3,220,476.23	40° 33' 20.445 N	104° 42' 23.546 W
PARKMAN									
3,700.0	10.97	21.03	3,655.5	448.8	172.5	1,446,269.55	3,220,479.32	40° 33' 20.526 N	104° 42' 23.505 W
3,800.0	10.97	21.03	3,753.7	466.5	179.3	1,446,287.38	3,220,485.99	40° 33' 20.702 N	104° 42' 23.417 W
3,900.0	10.97	21.03	3,851.9	484.3	186.1	1,446,305.20	3,220,492.66	40° 33' 20.877 N	104° 42' 23.328 W
4,000.0	10.97	21.03	3,950.0	502.1	193.0	1,446,323.02	3,220,499.32	40° 33' 21.053 N	104° 42' 23.240 W
4,100.0	10.97	21.03	4,048.2	519.8	199.8	1,446,340.84	3,220,505.99	40° 33' 21.229 N	104° 42' 23.151 W
4,200.0	10.97	21.03	4,146.4	537.6	206.6	1,446,358.66	3,220,512.66	40° 33' 21.404 N	104° 42' 23.063 W
4,300.0	10.97	21.03	4,244.6	555.3	213.5	1,446,376.48	3,220,519.33	40° 33' 21.580 N	104° 42' 22.975 W
4,394.2	10.97	21.03	4,337.0	572.1	219.9	1,446,393.27	3,220,525.61	40° 33' 21.745 N	104° 42' 22.891 W
SUSSEX									

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Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4884.0ft (Xtreme 7)
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Well:	WAAG 19	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 03Aug14 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	10.97	21.03	4,342.7	573.1	220.3	1,446,394.31	3,220,526.00	40° 33' 21.755 N	104° 42' 22.886 W
4,500.0	10.97	21.03	4,440.9	590.9	227.1	1,446,412.13	3,220,532.66	40° 33' 21.931 N	104° 42' 22.798 W
4,600.0	10.97	21.03	4,539.1	608.6	233.9	1,446,429.95	3,220,539.33	40° 33' 22.106 N	104° 42' 22.709 W
4,700.0	10.97	21.03	4,637.2	626.4	240.8	1,446,447.77	3,220,546.00	40° 33' 22.282 N	104° 42' 22.621 W
4,794.5	10.97	21.03	4,730.0	643.2	247.2	1,446,464.61	3,220,552.30	40° 33' 22.447 N	104° 42' 22.537 W
SHANNON									
4,800.0	10.97	21.03	4,735.4	644.1	247.6	1,446,465.59	3,220,552.67	40° 33' 22.457 N	104° 42' 22.532 W
4,900.0	10.97	21.03	4,833.6	661.9	254.4	1,446,483.42	3,220,559.34	40° 33' 22.633 N	104° 42' 22.444 W
5,000.0	10.97	21.03	4,931.8	679.7	261.2	1,446,501.24	3,220,566.00	40° 33' 22.808 N	104° 42' 22.355 W
5,100.0	10.97	21.03	5,029.9	697.4	268.1	1,446,519.06	3,220,572.67	40° 33' 22.984 N	104° 42' 22.267 W
5,200.0	10.97	21.03	5,128.1	715.2	274.9	1,446,536.88	3,220,579.34	40° 33' 23.159 N	104° 42' 22.179 W
5,300.0	10.97	21.03	5,226.3	733.0	281.7	1,446,554.70	3,220,586.01	40° 33' 23.335 N	104° 42' 22.090 W
5,400.0	10.97	21.03	5,324.5	750.7	288.5	1,446,572.53	3,220,592.67	40° 33' 23.510 N	104° 42' 22.002 W
5,500.0	10.97	21.03	5,422.6	768.5	295.4	1,446,590.35	3,220,599.34	40° 33' 23.686 N	104° 42' 21.913 W
5,600.0	10.97	21.03	5,520.8	786.2	302.2	1,446,608.17	3,220,606.01	40° 33' 23.861 N	104° 42' 21.825 W
5,700.0	10.97	21.03	5,619.0	804.0	309.0	1,446,625.99	3,220,612.68	40° 33' 24.037 N	104° 42' 21.736 W
5,800.0	10.97	21.03	5,717.1	821.8	315.9	1,446,643.81	3,220,619.35	40° 33' 24.212 N	104° 42' 21.648 W
5,900.0	10.97	21.03	5,815.3	839.5	322.7	1,446,661.64	3,220,626.01	40° 33' 24.388 N	104° 42' 21.559 W
6,000.0	10.97	21.03	5,913.5	857.3	329.5	1,446,679.46	3,220,632.68	40° 33' 24.563 N	104° 42' 21.471 W
6,100.0	10.97	21.03	6,011.7	875.0	336.3	1,446,697.28	3,220,639.35	40° 33' 24.739 N	104° 42' 21.382 W
6,200.0	10.97	21.03	6,109.8	892.8	343.2	1,446,715.10	3,220,646.02	40° 33' 24.914 N	104° 42' 21.294 W
6,278.5	10.97	21.03	6,186.9	906.7	348.5	1,446,729.09	3,220,651.25	40° 33' 25.052 N	104° 42' 21.225 W
Start Drop -2.00									
6,300.0	10.54	21.03	6,208.0	910.5	350.0	1,446,732.85	3,220,652.66	40° 33' 25.089 N	104° 42' 21.206 W
6,400.0	8.54	21.03	6,306.6	926.0	355.9	1,446,748.37	3,220,658.46	40° 33' 25.242 N	104° 42' 21.129 W
6,500.0	6.54	21.03	6,405.8	938.2	360.6	1,446,760.66	3,220,663.06	40° 33' 25.363 N	104° 42' 21.068 W
6,600.0	4.54	21.03	6,505.3	947.2	364.1	1,446,769.70	3,220,666.44	40° 33' 25.452 N	104° 42' 21.023 W
6,700.0	2.54	21.03	6,605.1	953.0	366.3	1,446,775.48	3,220,668.61	40° 33' 25.509 N	104° 42' 20.994 W
6,800.0	0.54	21.03	6,705.1	955.5	367.3	1,446,777.99	3,220,669.55	40° 33' 25.534 N	104° 42' 20.982 W
6,826.9	0.00	0.00	6,732.0	955.6	367.3	1,446,778.11	3,220,669.59	40° 33' 25.535 N	104° 42' 20.981 W
Vertical									
6,856.9	0.00	0.00	6,762.0	955.6	367.3	1,446,778.11	3,220,669.59	40° 33' 25.535 N	104° 42' 20.981 W
KOP 10°/100									
6,900.0	4.31	270.62	6,805.0	955.6	365.7	1,446,778.11	3,220,667.97	40° 33' 25.535 N	104° 42' 21.002 W
7,000.0	14.31	270.62	6,903.6	955.8	349.5	1,446,778.14	3,220,651.82	40° 33' 25.537 N	104° 42' 21.211 W
7,100.0	24.31	270.62	6,997.8	956.1	316.5	1,446,778.20	3,220,618.80	40° 33' 25.540 N	104° 42' 21.639 W
7,111.2	25.43	270.62	7,008.0	956.2	311.8	1,446,778.21	3,220,614.09	40° 33' 25.541 N	104° 42' 21.700 W
NIOBRARA									
7,200.0	34.31	270.62	7,084.9	956.7	267.6	1,446,778.30	3,220,569.92	40° 33' 25.545 N	104° 42' 22.273 W
7,280.5	42.35	270.62	7,148.0	957.2	217.8	1,446,778.39	3,220,520.05	40° 33' 25.551 N	104° 42' 22.919 W
NIO B TARGET									
7,300.0	44.31	270.62	7,162.2	957.4	204.4	1,446,778.42	3,220,506.65	40° 33' 25.552 N	104° 42' 23.092 W
7,400.0	54.31	270.62	7,227.3	958.2	128.6	1,446,778.56	3,220,430.93	40° 33' 25.560 N	104° 42' 24.073 W
7,500.0	64.31	270.62	7,278.3	959.1	42.8	1,446,778.72	3,220,345.05	40° 33' 25.570 N	104° 42' 25.186 W
7,533.7	67.67	270.62	7,292.0	959.4	12.0	1,446,778.78	3,220,314.31	40° 33' 25.573 N	104° 42' 25.584 W
FORT HAYS									
7,600.0	74.31	270.62	7,313.6	960.1	-50.7	1,446,778.90	3,220,251.62	40° 33' 25.580 N	104° 42' 26.396 W
7,650.0	79.30	270.62	7,325.0	960.6	-99.3	1,446,778.99	3,220,202.99	40° 33' 25.585 N	104° 42' 27.026 W
CODELL									
7,700.0	84.31	270.62	7,332.1	961.2	-148.8	1,446,779.08	3,220,153.48	40° 33' 25.590 N	104° 42' 27.668 W
7,756.9	90.00	270.62	7,335.0	961.8	-205.6	1,446,779.19	3,220,096.63	40° 33' 25.596 N	104° 42' 28.404 W
Landing Pt 90° Inc, 270.62 Az - 7"									
7,800.0	90.00	270.62	7,335.0	962.3	-248.7	1,446,779.27	3,220,053.57	40° 33' 25.601 N	104° 42' 28.962 W

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Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4884.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 19	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 03Aug14 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
7,900.0	90.00	270.62	7,335.0	963.3	-348.7	1,446,779.46	3,219,953.57	40° 33' 25.611 N	104° 42' 30.257 W
8,000.0	90.00	270.62	7,335.0	964.4	-448.7	1,446,779.64	3,219,853.57	40° 33' 25.622 N	104° 42' 31.553 W
8,100.0	90.00	270.62	7,335.0	965.5	-548.7	1,446,779.83	3,219,753.57	40° 33' 25.633 N	104° 42' 32.848 W
8,200.0	90.00	270.62	7,335.0	966.6	-648.7	1,446,780.02	3,219,653.57	40° 33' 25.643 N	104° 42' 34.144 W
8,300.0	90.00	270.62	7,335.0	967.7	-748.7	1,446,780.21	3,219,553.57	40° 33' 25.654 N	104° 42' 35.440 W
8,400.0	90.00	270.62	7,335.0	968.8	-848.6	1,446,780.40	3,219,453.57	40° 33' 25.665 N	104° 42' 36.735 W
8,500.0	90.00	270.62	7,334.9	969.8	-948.6	1,446,780.58	3,219,353.57	40° 33' 25.675 N	104° 42' 38.031 W
8,600.0	90.00	270.62	7,334.9	970.9	-1,048.6	1,446,780.77	3,219,253.57	40° 33' 25.686 N	104° 42' 39.326 W
8,700.0	90.00	270.62	7,334.9	972.0	-1,148.6	1,446,780.96	3,219,153.57	40° 33' 25.697 N	104° 42' 40.622 W
8,800.0	90.00	270.62	7,334.9	973.1	-1,248.6	1,446,781.15	3,219,053.57	40° 33' 25.707 N	104° 42' 41.917 W
8,900.0	90.00	270.62	7,334.9	974.2	-1,348.6	1,446,781.34	3,218,953.57	40° 33' 25.718 N	104° 42' 43.213 W
9,000.0	90.00	270.62	7,334.9	975.3	-1,448.6	1,446,781.52	3,218,853.57	40° 33' 25.729 N	104° 42' 44.508 W
9,100.0	90.00	270.62	7,334.9	976.3	-1,548.6	1,446,781.71	3,218,753.57	40° 33' 25.739 N	104° 42' 45.804 W
9,200.0	90.00	270.62	7,334.9	977.4	-1,648.6	1,446,781.90	3,218,653.57	40° 33' 25.750 N	104° 42' 47.099 W
9,300.0	90.00	270.62	7,334.9	978.5	-1,748.6	1,446,782.09	3,218,553.58	40° 33' 25.760 N	104° 42' 48.395 W
9,400.0	90.00	270.62	7,334.9	979.6	-1,848.6	1,446,782.28	3,218,453.58	40° 33' 25.771 N	104° 42' 49.690 W
9,500.0	90.00	270.62	7,334.9	980.7	-1,948.6	1,446,782.46	3,218,353.58	40° 33' 25.782 N	104° 42' 50.986 W
9,600.0	90.00	270.62	7,334.9	981.7	-2,048.6	1,446,782.65	3,218,253.58	40° 33' 25.792 N	104° 42' 52.281 W
9,700.0	90.00	270.62	7,334.9	982.8	-2,148.6	1,446,782.84	3,218,153.58	40° 33' 25.803 N	104° 42' 53.577 W
9,800.0	90.00	270.62	7,334.9	983.9	-2,248.6	1,446,783.03	3,218,053.58	40° 33' 25.814 N	104° 42' 54.872 W
9,900.0	90.00	270.62	7,334.9	985.0	-2,348.6	1,446,783.22	3,217,953.58	40° 33' 25.824 N	104° 42' 56.168 W
10,000.0	90.00	270.62	7,334.9	986.1	-2,448.6	1,446,783.40	3,217,853.58	40° 33' 25.835 N	104° 42' 57.463 W
10,100.0	90.00	270.62	7,334.9	987.2	-2,548.5	1,446,783.59	3,217,753.58	40° 33' 25.845 N	104° 42' 58.759 W
10,200.0	90.00	270.62	7,334.9	988.2	-2,648.5	1,446,783.78	3,217,653.58	40° 33' 25.856 N	104° 43' 0.054 W
10,300.0	90.00	270.62	7,334.9	989.3	-2,748.5	1,446,783.97	3,217,553.58	40° 33' 25.867 N	104° 43' 1.350 W
10,400.0	90.00	270.62	7,334.9	990.4	-2,848.5	1,446,784.16	3,217,453.58	40° 33' 25.877 N	104° 43' 2.645 W
10,500.0	90.00	270.62	7,334.8	991.5	-2,948.5	1,446,784.34	3,217,353.58	40° 33' 25.888 N	104° 43' 3.941 W
10,600.0	90.00	270.62	7,334.8	992.6	-3,048.5	1,446,784.53	3,217,253.58	40° 33' 25.898 N	104° 43' 5.236 W
10,700.0	90.01	270.62	7,334.8	993.6	-3,148.5	1,446,784.72	3,217,153.58	40° 33' 25.909 N	104° 43' 6.532 W
10,800.0	90.01	270.62	7,334.8	994.7	-3,248.5	1,446,784.91	3,217,053.58	40° 33' 25.919 N	104° 43' 7.828 W
10,900.0	90.01	270.62	7,334.8	995.8	-3,348.5	1,446,785.10	3,216,953.58	40° 33' 25.930 N	104° 43' 9.123 W
11,000.0	90.01	270.62	7,334.8	996.9	-3,448.5	1,446,785.28	3,216,853.58	40° 33' 25.941 N	104° 43' 10.419 W
11,100.0	90.01	270.62	7,334.8	998.0	-3,548.5	1,446,785.47	3,216,753.58	40° 33' 25.951 N	104° 43' 11.714 W
11,200.0	90.01	270.62	7,334.8	999.1	-3,648.5	1,446,785.66	3,216,653.58	40° 33' 25.962 N	104° 43' 13.010 W
11,300.0	90.01	270.62	7,334.8	1,000.1	-3,748.5	1,446,785.85	3,216,553.58	40° 33' 25.972 N	104° 43' 14.305 W
11,400.0	90.01	270.62	7,334.8	1,001.2	-3,848.5	1,446,786.04	3,216,453.58	40° 33' 25.983 N	104° 43' 15.601 W
11,500.0	90.01	270.62	7,334.7	1,002.3	-3,948.5	1,446,786.22	3,216,353.58	40° 33' 25.993 N	104° 43' 16.896 W
11,600.0	90.01	270.62	7,334.7	1,003.4	-4,048.5	1,446,786.41	3,216,253.58	40° 33' 26.004 N	104° 43' 18.192 W
11,700.0	90.01	270.62	7,334.7	1,004.5	-4,148.5	1,446,786.60	3,216,153.58	40° 33' 26.014 N	104° 43' 19.487 W
11,800.0	90.01	270.62	7,334.7	1,005.5	-4,248.5	1,446,786.79	3,216,053.58	40° 33' 26.025 N	104° 43' 20.783 W
11,900.0	90.01	270.62	7,334.7	1,006.6	-4,348.4	1,446,786.98	3,215,953.58	40° 33' 26.035 N	104° 43' 22.078 W
12,000.0	90.01	270.62	7,334.7	1,007.7	-4,448.4	1,446,787.16	3,215,853.58	40° 33' 26.046 N	104° 43' 23.374 W
12,100.0	90.01	270.62	7,334.7	1,008.8	-4,548.4	1,446,787.35	3,215,753.58	40° 33' 26.056 N	104° 43' 24.669 W
12,200.0	90.00	270.61	7,334.7	1,009.9	-4,648.4	1,446,787.53	3,215,653.58	40° 33' 26.067 N	104° 43' 25.965 W
12,200.2	90.00	270.61	7,334.7	1,009.9	-4,648.7	1,446,787.53	3,215,653.34	40° 33' 26.067 N	104° 43' 25.968 W
TD at 12200.2 - TD / PBHL WAAG SOUTH 19									

New Tech
Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 19 - Slot WAAG 19
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4884.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4884.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 19	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 03Aug14 mab		

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 SOU - plan hits target - Point	0.00	0.00	7,335.0	1,009.6	-4,648.7	1,446,787.24	3,215,653.34	40° 33' 26.064 N	104° 43' 25.968 W
LP WAAG SOUTH 19 - plan hits target - Point	0.00	0.00	7,335.0	961.8	-205.6	1,446,779.17	3,220,096.64	40° 33' 25.596 N	104° 42' 28.404 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
850.0	850.0	9 5/8"	0	0	
7,756.9	7,335.0	7"	0	0	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3653.60	3610.00	PARKMAN			
4394.20	4337.00	SUSSEX			
4794.50	4730.00	SHANNON			
7111.20	7008.00	NIOBRARA			
7280.50	7148.00	NIO B TARGET			
7533.70	7292.00	FORT HAYS			
7650.00	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	
1,448.5	1,445.1	48.9	18.8	Hold 10.97° Inc, 21.03° Az	
6,278.5	6,186.9	906.7	348.5	Start Drop -2.00	
6,826.9	6,732.0	955.6	367.3	Vertical	
6,856.9	6,762.0	955.6	367.3	KOP 10°/100	
7,756.9	7,335.0	961.8	-205.6	Landing Pt 90° Inc, 270.62 Az	
12,200.2	7,334.7	1,009.9	-4,648.7	TD at 12200.2	