

EXTRACTION OIL & GAS

SEC 19 T7N R65W

WAAG SOUTH

WAAG 25 - Slot WAAG 25

Wellbore #1

Plan: Plan #1 03Aug14 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 25 - Slot WAAG 25
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4883.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4883.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 25	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 25 - Slot WAAG 25			
Well Position	+N/-S	0.0 ft	Northing:	1,445,701.62 ft
	+E/-W	0.0 ft	Easting:	3,220,192.41 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft	Ground Level: 4,867.0 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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	267.56

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	
1,175.4	5.51	117.41	1,174.9	-6.1	11.7	2.00	2.00	0.00	117.41	
6,482.0	5.51	117.41	6,457.1	-240.5	463.9	0.00	0.00	0.00	0.00	
6,757.3	0.00	0.00	6,732.0	-246.6	475.6	2.00	-2.00	0.00	180.00	
6,787.3	0.00	0.00	6,762.0	-246.6	475.6	0.00	0.00	0.00	0.00	
7,687.3	90.00	270.62	7,335.0	-240.4	-97.3	10.00	10.00	0.00	270.62	
12,114.1	90.00	270.62	7,335.0	-192.7	-4,523.9	0.00	0.00	0.00	0.00	TD / PBHL WAAG SC

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 25 - Slot WAAG 25
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4883.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4883.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 25	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	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
100.0	0.00	0.00	100.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
200.0	0.00	0.00	200.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
300.0	0.00	0.00	300.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
400.0	0.00	0.00	400.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
500.0	0.00	0.00	500.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
600.0	0.00	0.00	600.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
700.0	0.00	0.00	700.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
800.0	0.00	0.00	800.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
850.0	0.00	0.00	850.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
9 5/8"									
900.0	0.00	0.00	900.0	0.0	0.0	1,445,701.62	3,220,192.41	40° 33' 14.940 N	104° 42' 27.288 W
Start Build 2.00									
1,000.0	2.00	117.41	1,000.0	-0.8	1.5	1,445,700.84	3,220,193.97	40° 33' 14.932 N	104° 42' 27.268 W
1,100.0	4.00	117.41	1,099.8	-3.2	6.2	1,445,698.47	3,220,198.63	40° 33' 14.908 N	104° 42' 27.208 W
1,175.4	5.51	117.41	1,174.9	-6.1	11.7	1,445,695.64	3,220,204.20	40° 33' 14.880 N	104° 42' 27.136 W
Hold 5.51° Inc, 117.41° Az									
1,200.0	5.51	117.41	1,199.5	-7.2	13.8	1,445,694.57	3,220,206.31	40° 33' 14.869 N	104° 42' 27.109 W
1,300.0	5.51	117.41	1,299.0	-11.6	22.4	1,445,690.23	3,220,214.87	40° 33' 14.825 N	104° 42' 26.998 W
1,400.0	5.51	117.41	1,398.5	-16.0	30.9	1,445,685.89	3,220,223.43	40° 33' 14.782 N	104° 42' 26.888 W
1,500.0	5.51	117.41	1,498.1	-20.4	39.4	1,445,681.55	3,220,231.99	40° 33' 14.738 N	104° 42' 26.778 W
1,600.0	5.51	117.41	1,597.6	-24.8	47.9	1,445,677.21	3,220,240.55	40° 33' 14.694 N	104° 42' 26.667 W
1,700.0	5.51	117.41	1,697.2	-29.3	56.4	1,445,672.87	3,220,249.11	40° 33' 14.651 N	104° 42' 26.557 W
1,800.0	5.51	117.41	1,796.7	-33.7	65.0	1,445,668.53	3,220,257.67	40° 33' 14.607 N	104° 42' 26.446 W
1,900.0	5.51	117.41	1,896.2	-38.1	73.5	1,445,664.18	3,220,266.23	40° 33' 14.563 N	104° 42' 26.336 W
2,000.0	5.51	117.41	1,995.8	-42.5	82.0	1,445,659.84	3,220,274.78	40° 33' 14.520 N	104° 42' 26.226 W
2,100.0	5.51	117.41	2,095.3	-46.9	90.5	1,445,655.50	3,220,283.34	40° 33' 14.476 N	104° 42' 26.115 W
2,200.0	5.51	117.41	2,194.8	-51.4	99.0	1,445,651.16	3,220,291.90	40° 33' 14.433 N	104° 42' 26.005 W
2,300.0	5.51	117.41	2,294.4	-55.8	107.6	1,445,646.82	3,220,300.46	40° 33' 14.389 N	104° 42' 25.895 W
2,400.0	5.51	117.41	2,393.9	-60.2	116.1	1,445,642.48	3,220,309.02	40° 33' 14.345 N	104° 42' 25.784 W
2,500.0	5.51	117.41	2,493.5	-64.6	124.6	1,445,638.14	3,220,317.58	40° 33' 14.302 N	104° 42' 25.674 W
2,600.0	5.51	117.41	2,593.0	-69.0	133.1	1,445,633.80	3,220,326.14	40° 33' 14.258 N	104° 42' 25.563 W
2,700.0	5.51	117.41	2,692.5	-73.4	141.6	1,445,629.45	3,220,334.70	40° 33' 14.214 N	104° 42' 25.453 W
2,800.0	5.51	117.41	2,792.1	-77.9	150.2	1,445,625.11	3,220,343.26	40° 33' 14.171 N	104° 42' 25.343 W
2,900.0	5.51	117.41	2,891.6	-82.3	158.7	1,445,620.77	3,220,351.82	40° 33' 14.127 N	104° 42' 25.232 W
3,000.0	5.51	117.41	2,991.2	-86.7	167.2	1,445,616.43	3,220,360.38	40° 33' 14.083 N	104° 42' 25.122 W
3,100.0	5.51	117.41	3,090.7	-91.1	175.7	1,445,612.09	3,220,368.93	40° 33' 14.040 N	104° 42' 25.012 W
3,200.0	5.51	117.41	3,190.2	-95.5	184.2	1,445,607.75	3,220,377.49	40° 33' 13.996 N	104° 42' 24.901 W
3,300.0	5.51	117.41	3,289.8	-99.9	192.8	1,445,603.41	3,220,386.05	40° 33' 13.952 N	104° 42' 24.791 W
3,400.0	5.51	117.41	3,389.3	-104.4	201.3	1,445,599.06	3,220,394.61	40° 33' 13.909 N	104° 42' 24.680 W
3,500.0	5.51	117.41	3,488.8	-108.8	209.8	1,445,594.72	3,220,403.17	40° 33' 13.865 N	104° 42' 24.570 W
3,600.0	5.51	117.41	3,588.4	-113.2	218.3	1,445,590.38	3,220,411.73	40° 33' 13.821 N	104° 42' 24.460 W
3,621.7	5.51	117.41	3,610.0	-114.2	220.2	1,445,589.44	3,220,413.59	40° 33' 13.812 N	104° 42' 24.436 W
PARKMAN									
3,700.0	5.51	117.41	3,687.9	-117.6	226.8	1,445,586.04	3,220,420.29	40° 33' 13.778 N	104° 42' 24.349 W
3,800.0	5.51	117.41	3,787.5	-122.0	235.4	1,445,581.70	3,220,428.85	40° 33' 13.734 N	104° 42' 24.239 W
3,900.0	5.51	117.41	3,887.0	-126.5	243.9	1,445,577.36	3,220,437.41	40° 33' 13.690 N	104° 42' 24.128 W
4,000.0	5.51	117.41	3,986.5	-130.9	252.4	1,445,573.02	3,220,445.97	40° 33' 13.647 N	104° 42' 24.018 W
4,100.0	5.51	117.41	4,086.1	-135.3	260.9	1,445,568.68	3,220,454.53	40° 33' 13.603 N	104° 42' 23.908 W
4,200.0	5.51	117.41	4,185.6	-139.7	269.4	1,445,564.33	3,220,463.08	40° 33' 13.559 N	104° 42' 23.797 W
4,300.0	5.51	117.41	4,285.2	-144.1	278.0	1,445,559.99	3,220,471.64	40° 33' 13.516 N	104° 42' 23.687 W
4,352.1	5.51	117.41	4,337.0	-146.4	282.4	1,445,557.73	3,220,476.10	40° 33' 13.493 N	104° 42' 23.629 W
SUSSEX									

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 25 - Slot WAAG 25
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4883.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4883.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 25	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	5.51	117.41	4,384.7	-148.5	286.5	1,445,555.65	3,220,480.20	40° 33' 13.472 N	104° 42' 23.577 W
4,500.0	5.51	117.41	4,484.2	-153.0	295.0	1,445,551.31	3,220,488.76	40° 33' 13.428 N	104° 42' 23.466 W
4,600.0	5.51	117.41	4,583.8	-157.4	303.5	1,445,546.97	3,220,497.32	40° 33' 13.385 N	104° 42' 23.356 W
4,700.0	5.51	117.41	4,683.3	-161.8	312.0	1,445,542.63	3,220,505.88	40° 33' 13.341 N	104° 42' 23.245 W
4,746.9	5.51	117.41	4,730.0	-163.9	316.0	1,445,540.59	3,220,509.90	40° 33' 13.321 N	104° 42' 23.194 W
SHANNON									
4,800.0	5.51	117.41	4,782.8	-166.2	320.6	1,445,538.29	3,220,514.44	40° 33' 13.298 N	104° 42' 23.135 W
4,900.0	5.51	117.41	4,882.4	-170.6	329.1	1,445,533.95	3,220,523.00	40° 33' 13.254 N	104° 42' 23.025 W
5,000.0	5.51	117.41	4,981.9	-175.0	337.6	1,445,529.60	3,220,531.56	40° 33' 13.210 N	104° 42' 22.914 W
5,100.0	5.51	117.41	5,081.5	-179.5	346.1	1,445,525.26	3,220,540.12	40° 33' 13.167 N	104° 42' 22.804 W
5,200.0	5.51	117.41	5,181.0	-183.9	354.6	1,445,520.92	3,220,548.68	40° 33' 13.123 N	104° 42' 22.694 W
5,300.0	5.51	117.41	5,280.5	-188.3	363.2	1,445,516.58	3,220,557.23	40° 33' 13.079 N	104° 42' 22.583 W
5,400.0	5.51	117.41	5,380.1	-192.7	371.7	1,445,512.24	3,220,565.79	40° 33' 13.036 N	104° 42' 22.473 W
5,500.0	5.51	117.41	5,479.6	-197.1	380.2	1,445,507.90	3,220,574.35	40° 33' 12.992 N	104° 42' 22.362 W
5,600.0	5.51	117.41	5,579.2	-201.6	388.7	1,445,503.56	3,220,582.91	40° 33' 12.948 N	104° 42' 22.252 W
5,700.0	5.51	117.41	5,678.7	-206.0	397.2	1,445,499.21	3,220,591.47	40° 33' 12.905 N	104° 42' 22.142 W
5,800.0	5.51	117.41	5,778.2	-210.4	405.8	1,445,494.87	3,220,600.03	40° 33' 12.861 N	104° 42' 22.031 W
5,900.0	5.51	117.41	5,877.8	-214.8	414.3	1,445,490.53	3,220,608.59	40° 33' 12.817 N	104° 42' 21.921 W
6,000.0	5.51	117.41	5,977.3	-219.2	422.8	1,445,486.19	3,220,617.15	40° 33' 12.774 N	104° 42' 21.811 W
6,100.0	5.51	117.41	6,076.8	-223.6	431.3	1,445,481.85	3,220,625.71	40° 33' 12.730 N	104° 42' 21.700 W
6,200.0	5.51	117.41	6,176.4	-228.1	439.8	1,445,477.51	3,220,634.27	40° 33' 12.686 N	104° 42' 21.590 W
6,300.0	5.51	117.41	6,275.9	-232.5	448.4	1,445,473.17	3,220,642.83	40° 33' 12.643 N	104° 42' 21.479 W
6,400.0	5.51	117.41	6,375.5	-236.9	456.9	1,445,468.83	3,220,651.38	40° 33' 12.599 N	104° 42' 21.369 W
6,482.0	5.51	117.41	6,457.1	-240.5	463.9	1,445,465.27	3,220,658.40	40° 33' 12.563 N	104° 42' 21.279 W
Start Drop -2.00									
6,500.0	5.15	117.41	6,475.0	-241.3	465.3	1,445,464.51	3,220,659.89	40° 33' 12.556 N	104° 42' 21.259 W
6,600.0	3.15	117.41	6,574.7	-244.6	471.8	1,445,461.24	3,220,666.34	40° 33' 12.523 N	104° 42' 21.176 W
6,700.0	1.15	117.41	6,674.7	-246.3	475.1	1,445,459.54	3,220,669.68	40° 33' 12.506 N	104° 42' 21.133 W
6,757.3	0.00	0.00	6,732.0	-246.6	475.6	1,445,459.28	3,220,670.19	40° 33' 12.503 N	104° 42' 21.126 W
Vertical									
6,787.3	0.00	0.00	6,762.0	-246.6	475.6	1,445,459.28	3,220,670.19	40° 33' 12.503 N	104° 42' 21.126 W
KOP 10°/100									
6,800.0	1.27	270.62	6,774.7	-246.6	475.5	1,445,459.28	3,220,670.05	40° 33' 12.503 N	104° 42' 21.128 W
6,900.0	11.27	270.62	6,873.9	-246.5	464.6	1,445,459.31	3,220,659.15	40° 33' 12.504 N	104° 42' 21.270 W
7,000.0	21.27	270.62	6,969.8	-246.2	436.6	1,445,459.36	3,220,631.18	40° 33' 12.507 N	104° 42' 21.632 W
7,041.6	25.43	270.62	7,008.0	-246.0	420.1	1,445,459.39	3,220,614.70	40° 33' 12.509 N	104° 42' 21.845 W
NIOBRARA									
7,100.0	31.27	270.62	7,059.4	-245.7	392.4	1,445,459.44	3,220,586.98	40° 33' 12.512 N	104° 42' 22.204 W
7,200.0	41.27	270.62	7,139.9	-245.1	333.3	1,445,459.55	3,220,527.91	40° 33' 12.518 N	104° 42' 22.970 W
7,210.9	42.35	270.62	7,148.0	-245.0	326.1	1,445,459.57	3,220,520.66	40° 33' 12.519 N	104° 42' 23.064 W
NIO B TARGET									
7,300.0	51.27	270.62	7,208.9	-244.3	261.2	1,445,459.69	3,220,455.74	40° 33' 12.526 N	104° 42' 23.905 W
7,400.0	61.27	270.62	7,264.4	-243.4	178.1	1,445,459.85	3,220,372.69	40° 33' 12.535 N	104° 42' 24.981 W
7,464.1	67.67	270.62	7,292.0	-242.8	120.3	1,445,459.95	3,220,314.91	40° 33' 12.541 N	104° 42' 25.729 W
FORT HAYS									
7,500.0	71.27	270.62	7,304.6	-242.4	86.7	1,445,460.02	3,220,281.26	40° 33' 12.545 N	104° 42' 26.165 W
7,580.4	79.30	270.62	7,325.0	-241.6	9.0	1,445,460.16	3,220,203.59	40° 33' 12.553 N	104° 42' 27.171 W
CODELL									
7,600.0	81.27	270.62	7,328.3	-241.3	-10.3	1,445,460.20	3,220,184.24	40° 33' 12.555 N	104° 42' 27.422 W
7,687.3	90.00	270.62	7,335.0	-240.4	-97.3	1,445,460.36	3,220,097.24	40° 33' 12.564 N	104° 42' 28.549 W
Landing Pt 90° Inc, 270.62° Az - 7"									
7,700.0	90.00	270.62	7,335.0	-240.3	-110.0	1,445,460.39	3,220,084.58	40° 33' 12.566 N	104° 42' 28.713 W
7,800.0	90.00	270.62	7,335.0	-239.2	-210.0	1,445,460.58	3,219,984.58	40° 33' 12.576 N	104° 42' 30.008 W

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 25 - Slot WAAG 25
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4883.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4883.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 25	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	-238.1	-310.0	1,445,460.77	3,219,884.58	40° 33' 12.587 N	104° 42' 31.304 W
8,000.0	90.00	270.62	7,335.0	-237.0	-410.0	1,445,460.95	3,219,784.58	40° 33' 12.598 N	104° 42' 32.599 W
8,100.0	90.00	270.62	7,335.0	-235.9	-510.0	1,445,461.14	3,219,684.58	40° 33' 12.608 N	104° 42' 33.895 W
8,200.0	90.00	270.62	7,335.0	-234.9	-610.0	1,445,461.33	3,219,584.58	40° 33' 12.619 N	104° 42' 35.190 W
8,300.0	90.00	270.62	7,335.0	-233.8	-709.9	1,445,461.52	3,219,484.58	40° 33' 12.630 N	104° 42' 36.486 W
8,400.0	90.00	270.62	7,335.0	-232.7	-809.9	1,445,461.71	3,219,384.58	40° 33' 12.640 N	104° 42' 37.781 W
8,500.0	90.00	270.62	7,335.0	-231.6	-909.9	1,445,461.90	3,219,284.58	40° 33' 12.651 N	104° 42' 39.076 W
8,600.0	90.00	270.62	7,335.0	-230.5	-1,009.9	1,445,462.08	3,219,184.58	40° 33' 12.662 N	104° 42' 40.372 W
8,700.0	90.00	270.62	7,334.9	-229.4	-1,109.9	1,445,462.27	3,219,084.58	40° 33' 12.672 N	104° 42' 41.667 W
8,800.0	90.00	270.62	7,334.9	-228.4	-1,209.9	1,445,462.46	3,218,984.58	40° 33' 12.683 N	104° 42' 42.963 W
8,900.0	90.00	270.62	7,334.9	-227.3	-1,309.9	1,445,462.65	3,218,884.58	40° 33' 12.694 N	104° 42' 44.258 W
9,000.0	90.00	270.62	7,334.9	-226.2	-1,409.9	1,445,462.84	3,218,784.58	40° 33' 12.704 N	104° 42' 45.554 W
9,100.0	90.00	270.62	7,334.9	-225.1	-1,509.9	1,445,463.03	3,218,684.58	40° 33' 12.715 N	104° 42' 46.849 W
9,200.0	90.00	270.62	7,334.9	-224.0	-1,609.9	1,445,463.22	3,218,584.58	40° 33' 12.726 N	104° 42' 48.145 W
9,300.0	90.00	270.62	7,334.9	-222.9	-1,709.9	1,445,463.40	3,218,484.58	40° 33' 12.736 N	104° 42' 49.440 W
9,400.0	90.00	270.62	7,334.9	-221.9	-1,809.9	1,445,463.59	3,218,384.58	40° 33' 12.747 N	104° 42' 50.735 W
9,500.0	90.00	270.62	7,334.9	-220.8	-1,909.9	1,445,463.78	3,218,284.58	40° 33' 12.757 N	104° 42' 52.031 W
9,600.0	90.00	270.62	7,334.9	-219.7	-2,009.9	1,445,463.97	3,218,184.58	40° 33' 12.768 N	104° 42' 53.326 W
9,700.0	90.00	270.62	7,334.9	-218.6	-2,109.9	1,445,464.16	3,218,084.58	40° 33' 12.779 N	104° 42' 54.622 W
9,800.0	90.00	270.62	7,334.9	-217.5	-2,209.9	1,445,464.35	3,217,984.58	40° 33' 12.789 N	104° 42' 55.917 W
9,900.0	90.00	270.62	7,334.9	-216.5	-2,309.9	1,445,464.53	3,217,884.58	40° 33' 12.800 N	104° 42' 57.213 W
10,000.0	90.00	270.62	7,334.9	-215.4	-2,409.8	1,445,464.72	3,217,784.58	40° 33' 12.811 N	104° 42' 58.508 W
10,100.0	90.00	270.62	7,334.9	-214.3	-2,509.8	1,445,464.91	3,217,684.58	40° 33' 12.821 N	104° 42' 59.804 W
10,200.0	90.00	270.62	7,334.9	-213.2	-2,609.8	1,445,465.10	3,217,584.58	40° 33' 12.832 N	104° 43' 1.099 W
10,300.0	90.00	270.62	7,334.9	-212.1	-2,709.8	1,445,465.29	3,217,484.59	40° 33' 12.842 N	104° 43' 2.395 W
10,400.0	90.00	270.62	7,334.9	-211.0	-2,809.8	1,445,465.48	3,217,384.59	40° 33' 12.853 N	104° 43' 3.690 W
10,500.0	90.00	270.62	7,334.9	-210.0	-2,909.8	1,445,465.67	3,217,284.59	40° 33' 12.863 N	104° 43' 4.985 W
10,600.0	90.00	270.62	7,334.9	-208.9	-3,009.8	1,445,465.85	3,217,184.59	40° 33' 12.874 N	104° 43' 6.281 W
10,700.0	90.00	270.62	7,334.9	-207.8	-3,109.8	1,445,466.04	3,217,084.59	40° 33' 12.885 N	104° 43' 7.576 W
10,800.0	90.00	270.62	7,334.9	-206.7	-3,209.8	1,445,466.23	3,216,984.59	40° 33' 12.895 N	104° 43' 8.872 W
10,900.0	90.00	270.62	7,334.9	-205.6	-3,309.8	1,445,466.42	3,216,884.59	40° 33' 12.906 N	104° 43' 10.167 W
11,000.0	90.00	270.62	7,334.9	-204.6	-3,409.8	1,445,466.61	3,216,784.59	40° 33' 12.916 N	104° 43' 11.463 W
11,100.0	90.00	270.62	7,334.9	-203.5	-3,509.8	1,445,466.80	3,216,684.59	40° 33' 12.927 N	104° 43' 12.758 W
11,200.0	90.00	270.62	7,334.8	-202.4	-3,609.8	1,445,466.99	3,216,584.59	40° 33' 12.937 N	104° 43' 14.054 W
11,300.0	90.00	270.62	7,334.8	-201.3	-3,709.8	1,445,467.17	3,216,484.59	40° 33' 12.948 N	104° 43' 15.349 W
11,400.0	90.00	270.62	7,334.8	-200.2	-3,809.8	1,445,467.36	3,216,384.59	40° 33' 12.958 N	104° 43' 16.645 W
11,500.0	90.00	270.62	7,334.8	-199.1	-3,909.8	1,445,467.55	3,216,284.59	40° 33' 12.969 N	104° 43' 17.940 W
11,600.0	90.00	270.62	7,334.8	-198.1	-4,009.8	1,445,467.74	3,216,184.59	40° 33' 12.980 N	104° 43' 19.235 W
11,700.0	90.00	270.62	7,334.8	-197.0	-4,109.7	1,445,467.93	3,216,084.59	40° 33' 12.990 N	104° 43' 20.531 W
11,800.0	90.00	270.62	7,334.8	-195.9	-4,209.7	1,445,468.12	3,215,984.59	40° 33' 13.001 N	104° 43' 21.826 W
11,900.0	90.00	270.62	7,334.8	-194.8	-4,309.7	1,445,468.30	3,215,884.59	40° 33' 13.011 N	104° 43' 23.122 W
12,000.0	90.00	270.62	7,334.8	-193.7	-4,409.7	1,445,468.49	3,215,784.59	40° 33' 13.022 N	104° 43' 24.417 W
12,100.0	90.00	270.62	7,334.8	-192.7	-4,509.7	1,445,468.68	3,215,684.59	40° 33' 13.032 N	104° 43' 25.713 W
12,114.1	90.00	270.62	7,335.0	-192.7	-4,523.9	1,445,468.54	3,215,670.44	40° 33' 13.032 N	104° 43' 25.896 W
TD at 12114.1 - TD / PBHL WAAG SOUTH 25									

New Tech

Planning Report - Geographic

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well WAAG 25 - Slot WAAG 25
Company:	EXTRACTION OIL & GAS	TVD Reference:	WELL @ 4883.0ft (Xtreme 7)
Project:	SEC 19 T7N R65W	MD Reference:	WELL @ 4883.0ft (Xtreme 7)
Site:	WAAG SOUTH	North Reference:	True
Well:	WAAG 25	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	-192.7	-4,523.9	1,445,468.54	3,215,670.44	40° 33' 13.032 N	104° 43' 25.896 W
LP WAAG SOUTH 25 - plan hits target - Point	0.00	0.00	7,335.0	-240.4	-97.3	1,445,460.32	3,220,097.30	40° 33' 12.564 N	104° 42' 28.548 W

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
850.0	850.0	9 5/8"	0	0
7,687.3	7,335.0	7"	0	0

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3621.70	3610.00	PARKMAN			
4352.10	4337.00	SUSSEX			
4746.90	4730.00	SHANNON			
7041.60	7008.00	NIOBRARA			
7210.90	7148.00	NIO B TARGET			
7464.10	7292.00	FORT HAYS			
7580.40	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
1,175.4	1,174.9	-6.1	11.7	Hold 5.51° Inc, 117.41° Az
6,482.0	6,457.1	-240.5	463.9	Start Drop -2.00
6,757.3	6,732.0	-246.6	475.6	Vertical
6,787.3	6,762.0	-246.6	475.6	KOP 10°/100
7,687.3	7,335.0	-240.4	-97.3	Landing Pt 90° Inc, 270.62° Az
12,114.1	7,335.0	-192.7	-4,523.9	TD at 12114.1