

EXTRACTION OIL & GAS

**Weld County
Sec 32-T6N-R65W
WAKE EAST 7**

ORIGINAL WELLBORE

Plan: PROPOSAL #1

Standard Planning Report

15 November, 2017

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4675.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project	Weld County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 32-T6N-R65W			
Site Position:		Northing:	1,405,488.40 usft	Latitude:	40° 26' 36.996 N
From:	Lat/Long	Easting:	3,226,675.31 usft	Longitude:	104° 41' 8.088 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.53 °

Well	WAKE EAST 7					
Well Position	+N/-S	-94.73 usft	Northing:	1,405,393.67 usft	Latitude:	40° 26' 36.060 N
	+E/-W	0.00 usft	Easting:	3,226,676.18 usft	Longitude:	104° 41' 8.088 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,650.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/4/2017	8.20	66.91	52,457.28850074

Design	PROPOSAL #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	86.95

Plan Survey Tool Program			Date	11/15/2017	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,278.25	PROPOSAL #1 (ORIGINAL WEL	MWD OWSG	
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,894.70	23.89	65.86	1,860.38	100.40	224.06	2.00	2.00	0.00	65.86	
6,916.97	23.89	65.86	6,452.21	932.24	2,080.46	0.00	0.00	0.00	0.00	
7,603.63	90.00	91.95	6,810.00	983.76	2,616.22	10.00	9.63	3.80	28.17	WAKE EAST 7N - LP
17,278.25	90.00	91.95	6,810.00	655.17	12,285.26	0.00	0.00	0.00	0.00	WAKE EAST 7N - PB

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4675.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
BUILD 2°/100'									
800.00	2.00	65.86	799.98	0.71	1.59	1.63	2.00	2.00	0.00
900.00	4.00	65.86	899.84	2.85	6.37	6.51	2.00	2.00	0.00
1,000.00	6.00	65.86	999.45	6.42	14.32	14.64	2.00	2.00	0.00
1,100.00	8.00	65.86	1,098.70	11.40	25.44	26.01	2.00	2.00	0.00
1,200.00	10.00	65.86	1,197.47	17.80	39.72	40.61	2.00	2.00	0.00
1,300.00	12.00	65.86	1,295.62	25.60	57.13	58.41	2.00	2.00	0.00
1,400.00	14.00	65.86	1,393.06	34.80	77.66	79.40	2.00	2.00	0.00
1,500.00	16.00	65.86	1,489.64	45.38	101.27	103.55	2.00	2.00	0.00
1,600.00	18.00	65.86	1,585.27	57.34	127.95	130.83	2.00	2.00	0.00
1,700.00	20.00	65.86	1,679.82	70.65	157.66	161.20	2.00	2.00	0.00
1,800.00	22.00	65.86	1,773.17	85.30	190.37	194.64	2.00	2.00	0.00
1,894.71	23.89	65.86	1,860.38	100.40	224.06	229.09	2.00	2.00	0.00
HOLD 23.89° INC									
1,900.00	23.89	65.86	1,865.22	101.28	226.02	231.09	0.00	0.00	0.00
2,000.00	23.89	65.86	1,956.65	117.84	262.98	268.88	0.00	0.00	0.00
2,100.00	23.89	65.86	2,048.08	134.40	299.94	306.68	0.00	0.00	0.00
2,200.00	23.89	65.86	2,139.51	150.97	336.91	344.47	0.00	0.00	0.00
2,300.00	23.89	65.86	2,230.93	167.53	373.87	382.26	0.00	0.00	0.00
2,400.00	23.89	65.86	2,322.36	184.09	410.83	420.05	0.00	0.00	0.00
2,500.00	23.89	65.86	2,413.79	200.65	447.80	457.85	0.00	0.00	0.00
2,600.00	23.89	65.86	2,505.22	217.22	484.76	495.64	0.00	0.00	0.00
2,700.00	23.89	65.86	2,596.65	233.78	521.72	533.43	0.00	0.00	0.00
2,800.00	23.89	65.86	2,688.08	250.34	558.69	571.23	0.00	0.00	0.00
2,900.00	23.89	65.86	2,779.51	266.91	595.65	609.02	0.00	0.00	0.00
3,000.00	23.89	65.86	2,870.94	283.47	632.61	646.81	0.00	0.00	0.00
3,100.00	23.89	65.86	2,962.37	300.03	669.58	684.61	0.00	0.00	0.00
3,200.00	23.89	65.86	3,053.80	316.60	706.54	722.40	0.00	0.00	0.00
3,300.00	23.89	65.86	3,145.23	333.16	743.51	760.19	0.00	0.00	0.00
3,400.00	23.89	65.86	3,236.66	349.72	780.47	797.99	0.00	0.00	0.00
3,500.00	23.89	65.86	3,328.09	366.28	817.43	835.78	0.00	0.00	0.00
3,600.00	23.89	65.86	3,419.52	382.85	854.40	873.57	0.00	0.00	0.00
3,700.00	23.89	65.86	3,510.95	399.41	891.36	911.36	0.00	0.00	0.00
3,797.40	23.89	65.86	3,600.00	415.54	927.36	948.17	0.00	0.00	0.00
PARKMAN									
3,800.00	23.89	65.86	3,602.38	415.97	928.32	949.16	0.00	0.00	0.00
3,900.00	23.89	65.86	3,693.81	432.54	965.29	986.95	0.00	0.00	0.00
4,000.00	23.89	65.86	3,785.24	449.10	1,002.25	1,024.74	0.00	0.00	0.00
4,100.00	23.89	65.86	3,876.67	465.66	1,039.21	1,062.54	0.00	0.00	0.00
4,200.00	23.89	65.86	3,968.10	482.23	1,076.18	1,100.33	0.00	0.00	0.00
4,300.00	23.89	65.86	4,059.53	498.79	1,113.14	1,138.12	0.00	0.00	0.00
4,388.02	23.89	65.86	4,140.00	513.37	1,145.67	1,171.39	0.00	0.00	0.00
SUSSEX									
4,400.00	23.89	65.86	4,150.96	515.35	1,150.10	1,175.92	0.00	0.00	0.00
4,500.00	23.89	65.86	4,242.39	531.91	1,187.07	1,213.71	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4675.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	23.89	65.86	4,333.82	548.48	1,224.03	1,251.50	0.00	0.00	0.00
4,700.00	23.89	65.86	4,425.24	565.04	1,260.99	1,289.30	0.00	0.00	0.00
4,800.00	23.89	65.86	4,516.67	581.60	1,297.96	1,327.09	0.00	0.00	0.00
4,900.00	23.89	65.86	4,608.10	598.17	1,334.92	1,364.88	0.00	0.00	0.00
4,978.64	23.89	65.86	4,680.00	611.19	1,363.99	1,394.60	0.00	0.00	0.00
SHANNON									
5,000.00	23.89	65.86	4,699.53	614.73	1,371.88	1,402.67	0.00	0.00	0.00
5,100.00	23.89	65.86	4,790.96	631.29	1,408.85	1,440.47	0.00	0.00	0.00
5,200.00	23.89	65.86	4,882.39	647.86	1,445.81	1,478.26	0.00	0.00	0.00
5,300.00	23.89	65.86	4,973.82	664.42	1,482.78	1,516.05	0.00	0.00	0.00
5,400.00	23.89	65.86	5,065.25	680.98	1,519.74	1,553.85	0.00	0.00	0.00
5,500.00	23.89	65.86	5,156.68	697.55	1,556.70	1,591.64	0.00	0.00	0.00
5,600.00	23.89	65.86	5,248.11	714.11	1,593.67	1,629.43	0.00	0.00	0.00
5,700.00	23.89	65.86	5,339.54	730.67	1,630.63	1,667.23	0.00	0.00	0.00
5,800.00	23.89	65.86	5,430.97	747.23	1,667.59	1,705.02	0.00	0.00	0.00
5,900.00	23.89	65.86	5,522.40	763.80	1,704.56	1,742.81	0.00	0.00	0.00
6,000.00	23.89	65.86	5,613.83	780.36	1,741.52	1,780.61	0.00	0.00	0.00
6,100.00	23.89	65.86	5,705.26	796.92	1,778.48	1,818.40	0.00	0.00	0.00
6,200.00	23.89	65.86	5,796.69	813.49	1,815.45	1,856.19	0.00	0.00	0.00
6,300.00	23.89	65.86	5,888.12	830.05	1,852.41	1,893.98	0.00	0.00	0.00
6,400.00	23.89	65.86	5,979.55	846.61	1,889.37	1,931.78	0.00	0.00	0.00
6,500.00	23.89	65.86	6,070.98	863.18	1,926.34	1,969.57	0.00	0.00	0.00
6,600.00	23.89	65.86	6,162.41	879.74	1,963.30	2,007.36	0.00	0.00	0.00
6,700.00	23.89	65.86	6,253.84	896.30	2,000.26	2,045.16	0.00	0.00	0.00
6,800.00	23.89	65.86	6,345.27	912.86	2,037.23	2,082.95	0.00	0.00	0.00
6,900.00	23.89	65.86	6,436.70	929.43	2,074.19	2,120.74	0.00	0.00	0.00
6,916.96	23.89	65.86	6,452.20	932.24	2,080.46	2,127.15	0.00	0.00	0.00
KOP, BUILD 10°/100'									
6,950.00	26.85	69.32	6,482.05	937.61	2,093.55	2,140.51	10.00	8.94	10.45
7,000.00	31.44	73.37	6,525.71	945.33	2,116.62	2,163.96	10.00	9.19	8.11
7,050.00	36.14	76.48	6,567.26	952.52	2,143.47	2,191.16	10.00	9.39	6.21
7,100.00	40.90	78.95	6,606.37	959.11	2,173.89	2,221.88	10.00	9.52	4.95
7,150.00	45.70	80.99	6,642.75	965.05	2,207.65	2,255.91	10.00	9.60	4.08
7,200.00	50.53	82.72	6,676.13	970.30	2,244.48	2,292.97	10.00	9.66	3.46
7,250.00	55.38	84.22	6,706.24	974.83	2,284.12	2,332.79	10.00	9.71	3.01
7,300.00	60.25	85.56	6,732.86	978.58	2,326.26	2,375.07	10.00	9.74	2.67
7,350.00	65.14	86.77	6,755.79	981.55	2,370.57	2,419.48	10.00	9.77	2.42
7,400.00	70.03	87.89	6,774.85	983.69	2,416.73	2,465.69	10.00	9.78	2.24
7,450.00	74.93	88.94	6,789.90	985.01	2,464.38	2,513.34	10.00	9.80	2.10
7,495.42	79.38	89.85	6,800.00	985.47	2,508.65	2,557.57	10.00	9.81	2.01
NIOBRARA									
7,500.00	79.83	89.94	6,800.83	985.48	2,513.15	2,562.07	10.00	9.81	1.98
7,550.00	84.74	90.92	6,807.54	985.10	2,562.68	2,611.51	10.00	9.81	1.95
7,603.63	90.00	91.95	6,810.00	983.76	2,616.22	2,664.90	10.00	9.81	1.92
LP @ 90° INC, 91.95° AZM HOLD									
7,700.00	90.00	91.95	6,810.00	980.49	2,712.53	2,760.90	0.00	0.00	0.00
7,800.00	90.00	91.95	6,810.00	977.09	2,812.48	2,860.52	0.00	0.00	0.00
7,900.00	90.00	91.95	6,810.00	973.70	2,912.42	2,960.14	0.00	0.00	0.00
8,000.00	90.00	91.95	6,810.00	970.30	3,012.36	3,059.76	0.00	0.00	0.00
8,100.00	90.00	91.95	6,810.00	966.90	3,112.30	3,159.38	0.00	0.00	0.00
8,200.00	90.00	91.95	6,810.00	963.51	3,212.25	3,259.00	0.00	0.00	0.00
8,300.00	90.00	91.95	6,810.00	960.11	3,312.19	3,358.62	0.00	0.00	0.00
8,400.00	90.00	91.95	6,810.00	956.71	3,412.13	3,458.24	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4675.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,500.00	90.00	91.95	6,810.00	953.32	3,512.07	3,557.86	0.00	0.00	0.00	
8,600.00	90.00	91.95	6,810.00	949.92	3,612.01	3,657.48	0.00	0.00	0.00	
8,700.00	90.00	91.95	6,810.00	946.52	3,711.96	3,757.10	0.00	0.00	0.00	
8,800.00	90.00	91.95	6,810.00	943.13	3,811.90	3,856.72	0.00	0.00	0.00	
8,900.00	90.00	91.95	6,810.00	939.73	3,911.84	3,956.33	0.00	0.00	0.00	
9,000.00	90.00	91.95	6,810.00	936.34	4,011.78	4,055.95	0.00	0.00	0.00	
9,100.00	90.00	91.95	6,810.00	932.94	4,111.73	4,155.57	0.00	0.00	0.00	
9,200.00	90.00	91.95	6,810.00	929.54	4,211.67	4,255.19	0.00	0.00	0.00	
9,300.00	90.00	91.95	6,810.00	926.15	4,311.61	4,354.81	0.00	0.00	0.00	
9,400.00	90.00	91.95	6,810.00	922.75	4,411.55	4,454.43	0.00	0.00	0.00	
9,500.00	90.00	91.95	6,810.00	919.35	4,511.50	4,554.05	0.00	0.00	0.00	
9,600.00	90.00	91.95	6,810.00	915.96	4,611.44	4,653.67	0.00	0.00	0.00	
9,700.00	90.00	91.95	6,810.00	912.56	4,711.38	4,753.29	0.00	0.00	0.00	
9,800.00	90.00	91.95	6,810.00	909.16	4,811.32	4,852.91	0.00	0.00	0.00	
9,900.00	90.00	91.95	6,810.00	905.77	4,911.26	4,952.53	0.00	0.00	0.00	
10,000.00	90.00	91.95	6,810.00	902.37	5,011.21	5,052.15	0.00	0.00	0.00	
10,100.00	90.00	91.95	6,810.00	898.97	5,111.15	5,151.77	0.00	0.00	0.00	
10,200.00	90.00	91.95	6,810.00	895.58	5,211.09	5,251.39	0.00	0.00	0.00	
10,300.00	90.00	91.95	6,810.00	892.18	5,311.03	5,351.01	0.00	0.00	0.00	
10,400.00	90.00	91.95	6,810.00	888.78	5,410.98	5,450.63	0.00	0.00	0.00	
10,500.00	90.00	91.95	6,810.00	885.39	5,510.92	5,550.25	0.00	0.00	0.00	
10,600.00	90.00	91.95	6,810.00	881.99	5,610.86	5,649.87	0.00	0.00	0.00	
10,700.00	90.00	91.95	6,810.00	878.60	5,710.80	5,749.49	0.00	0.00	0.00	
10,800.00	90.00	91.95	6,810.00	875.20	5,810.74	5,849.11	0.00	0.00	0.00	
10,900.00	90.00	91.95	6,810.00	871.80	5,910.69	5,948.73	0.00	0.00	0.00	
11,000.00	90.00	91.95	6,810.00	868.41	6,010.63	6,048.35	0.00	0.00	0.00	
11,100.00	90.00	91.95	6,810.00	865.01	6,110.57	6,147.97	0.00	0.00	0.00	
11,200.00	90.00	91.95	6,810.00	861.61	6,210.51	6,247.59	0.00	0.00	0.00	
11,300.00	90.00	91.95	6,810.00	858.22	6,310.46	6,347.21	0.00	0.00	0.00	
11,400.00	90.00	91.95	6,810.00	854.82	6,410.40	6,446.83	0.00	0.00	0.00	
11,500.00	90.00	91.95	6,810.00	851.42	6,510.34	6,546.44	0.00	0.00	0.00	
11,600.00	90.00	91.95	6,810.00	848.03	6,610.28	6,646.06	0.00	0.00	0.00	
11,700.00	90.00	91.95	6,810.00	844.63	6,710.23	6,745.68	0.00	0.00	0.00	
11,800.00	90.00	91.95	6,810.00	841.23	6,810.17	6,845.30	0.00	0.00	0.00	
11,900.00	90.00	91.95	6,810.00	837.84	6,910.11	6,944.92	0.00	0.00	0.00	
12,000.00	90.00	91.95	6,810.00	834.44	7,010.05	7,044.54	0.00	0.00	0.00	
12,100.00	90.00	91.95	6,810.00	831.05	7,109.99	7,144.16	0.00	0.00	0.00	
12,200.00	90.00	91.95	6,810.00	827.65	7,209.94	7,243.78	0.00	0.00	0.00	
12,300.00	90.00	91.95	6,810.00	824.25	7,309.88	7,343.40	0.00	0.00	0.00	
12,400.00	90.00	91.95	6,810.00	820.86	7,409.82	7,443.02	0.00	0.00	0.00	
12,500.00	90.00	91.95	6,810.00	817.46	7,509.76	7,542.64	0.00	0.00	0.00	
12,600.00	90.00	91.95	6,810.00	814.06	7,609.71	7,642.26	0.00	0.00	0.00	
12,700.00	90.00	91.95	6,810.00	810.67	7,709.65	7,741.88	0.00	0.00	0.00	
12,800.00	90.00	91.95	6,810.00	807.27	7,809.59	7,841.50	0.00	0.00	0.00	
12,900.00	90.00	91.95	6,810.00	803.87	7,909.53	7,941.12	0.00	0.00	0.00	
13,000.00	90.00	91.95	6,810.00	800.48	8,009.48	8,040.74	0.00	0.00	0.00	
13,100.00	90.00	91.95	6,810.00	797.08	8,109.42	8,140.36	0.00	0.00	0.00	
13,200.00	90.00	91.95	6,810.00	793.68	8,209.36	8,239.98	0.00	0.00	0.00	
13,300.00	90.00	91.95	6,810.00	790.29	8,309.30	8,339.60	0.00	0.00	0.00	
13,400.00	90.00	91.95	6,810.00	786.89	8,409.24	8,439.22	0.00	0.00	0.00	
13,500.00	90.00	91.95	6,810.00	783.49	8,509.19	8,538.84	0.00	0.00	0.00	
13,600.00	90.00	91.95	6,810.00	780.10	8,609.13	8,638.46	0.00	0.00	0.00	
13,700.00	90.00	91.95	6,810.00	776.70	8,709.07	8,738.08	0.00	0.00	0.00	
13,800.00	90.00	91.95	6,810.00	773.31	8,809.01	8,837.70	0.00	0.00	0.00	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4675.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,900.00	90.00	91.95	6,810.00	769.91	8,908.96	8,937.32	0.00	0.00	0.00	
14,000.00	90.00	91.95	6,810.00	766.51	9,008.90	9,036.93	0.00	0.00	0.00	
14,100.00	90.00	91.95	6,810.00	763.12	9,108.84	9,136.55	0.00	0.00	0.00	
14,200.00	90.00	91.95	6,810.00	759.72	9,208.78	9,236.17	0.00	0.00	0.00	
14,300.00	90.00	91.95	6,810.00	756.32	9,308.73	9,335.79	0.00	0.00	0.00	
14,400.00	90.00	91.95	6,810.00	752.93	9,408.67	9,435.41	0.00	0.00	0.00	
14,500.00	90.00	91.95	6,810.00	749.53	9,508.61	9,535.03	0.00	0.00	0.00	
14,600.00	90.00	91.95	6,810.00	746.13	9,608.55	9,634.65	0.00	0.00	0.00	
14,700.00	90.00	91.95	6,810.00	742.74	9,708.49	9,734.27	0.00	0.00	0.00	
14,800.00	90.00	91.95	6,810.00	739.34	9,808.44	9,833.89	0.00	0.00	0.00	
14,900.00	90.00	91.95	6,810.00	735.94	9,908.38	9,933.51	0.00	0.00	0.00	
15,000.00	90.00	91.95	6,810.00	732.55	10,008.32	10,033.13	0.00	0.00	0.00	
15,100.00	90.00	91.95	6,810.00	729.15	10,108.26	10,132.75	0.00	0.00	0.00	
15,200.00	90.00	91.95	6,810.00	725.75	10,208.21	10,232.37	0.00	0.00	0.00	
15,300.00	90.00	91.95	6,810.00	722.36	10,308.15	10,331.99	0.00	0.00	0.00	
15,400.00	90.00	91.95	6,810.00	718.96	10,408.09	10,431.61	0.00	0.00	0.00	
15,500.00	90.00	91.95	6,810.00	715.57	10,508.03	10,531.23	0.00	0.00	0.00	
15,600.00	90.00	91.95	6,810.00	712.17	10,607.98	10,630.85	0.00	0.00	0.00	
15,700.00	90.00	91.95	6,810.00	708.77	10,707.92	10,730.47	0.00	0.00	0.00	
15,800.00	90.00	91.95	6,810.00	705.38	10,807.86	10,830.09	0.00	0.00	0.00	
15,900.00	90.00	91.95	6,810.00	701.98	10,907.80	10,929.71	0.00	0.00	0.00	
16,000.00	90.00	91.95	6,810.00	698.58	11,007.74	11,029.33	0.00	0.00	0.00	
16,100.00	90.00	91.95	6,810.00	695.19	11,107.69	11,128.95	0.00	0.00	0.00	
16,200.00	90.00	91.95	6,810.00	691.79	11,207.63	11,228.57	0.00	0.00	0.00	
16,300.00	90.00	91.95	6,810.00	688.39	11,307.57	11,328.19	0.00	0.00	0.00	
16,400.00	90.00	91.95	6,810.00	685.00	11,407.51	11,427.81	0.00	0.00	0.00	
16,500.00	90.00	91.95	6,810.00	681.60	11,507.46	11,527.43	0.00	0.00	0.00	
16,600.00	90.00	91.95	6,810.00	678.20	11,607.40	11,627.04	0.00	0.00	0.00	
16,700.00	90.00	91.95	6,810.00	674.81	11,707.34	11,726.66	0.00	0.00	0.00	
16,800.00	90.00	91.95	6,810.00	671.41	11,807.28	11,826.28	0.00	0.00	0.00	
16,900.00	90.00	91.95	6,810.00	668.02	11,907.23	11,925.90	0.00	0.00	0.00	
17,000.00	90.00	91.95	6,810.00	664.62	12,007.17	12,025.52	0.00	0.00	0.00	
17,100.00	90.00	91.95	6,810.00	661.22	12,107.11	12,125.14	0.00	0.00	0.00	
17,200.00	90.00	91.95	6,810.00	657.83	12,207.05	12,224.76	0.00	0.00	0.00	
17,278.25	90.00	91.95	6,810.00	655.17	12,285.26	12,302.72	0.00	0.00	0.00	
TD at 17278.25' MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
WAKE EAST 7N - LP - hit/miss target center - Shape - Point	0.00	0.00	6,810.00	983.76	2,616.22	1,406,401.42	3,229,283.25	40° 26' 45.780 N	104° 40' 34.248 W	
WAKE EAST 7N - PBHL - plan hits target center - Point	0.00	0.00	6,810.00	655.17	12,285.26	1,406,161.64	3,238,954.90	40° 26' 42.504 N	104° 38' 29.184 W	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4675.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,797.40	3,600.00	PARKMAN			
4,388.02	4,140.00	SUSSEX			
4,978.64	4,680.00	SHANNON			
7,495.42	6,800.00	NIOBRARA			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
700.00	700.00	0.00	0.00	BUILD 2°/100'
1,894.71	1,860.38	100.40	224.06	HOLD 23.89° INC
6,916.96	6,452.20	932.24	2,080.46	KOP, BUILD 10°/100'
7,603.63	6,810.00	983.76	2,616.22	LP @ 90° INC, 91.95° AZM HOLD
17,278.25	6,810.00	655.17	12,285.26	TD at 17278.25' MD