

EXTRACTION OIL & GAS

WELD COUNTY

Sec 32-T6N-R65W

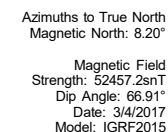
WAKE EAST 33E-20-10

ORIGINAL WELLBORE

Plan: PROPOSAL #1

Standard Planning Report

27 July, 2018



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 33E-20-10
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 33E-20-10	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 33E-20-10					
Well Position	+N/-S	-142.09 usft	Northing:	1,405,346.31 usft	Latitude:	40° 26' 35.592 N
	+E/-W	0.00 usft	Easting:	3,226,676.61 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	52,457.22108680

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	89.41

Plan Survey Tool Program	Date	7/27/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,216.00	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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,174.20	23.48	83.31	2,141.60	27.65	235.67	2.00	2.00	0.00	83.31	
6,886.93	23.48	83.31	6,463.98	246.44	2,100.88	0.00	0.00	0.00	0.00	
7,554.20	90.00	90.78	6,810.00	258.81	2,627.43	10.00	9.97	1.12	8.14	WAKE EAST 10 - LP
17,216.00	90.00	90.78	6,810.00	126.94	12,288.33	0.00	0.00	0.00	0.00	WAKE EAST 10 - PBI

Planning Report

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Project:	WELD COUNTY	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 33E-20-10	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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	2.00	83.31	1,099.98	0.20	1.73	1.74	2.00	2.00	0.00
1,200.00	4.00	83.31	1,199.84	0.81	6.93	6.94	2.00	2.00	0.00
1,300.00	6.00	83.31	1,299.45	1.83	15.59	15.60	2.00	2.00	0.00
1,400.00	8.00	83.31	1,398.70	3.25	27.69	27.72	2.00	2.00	0.00
1,500.00	10.00	83.31	1,497.47	5.07	43.23	43.28	2.00	2.00	0.00
1,600.00	12.00	83.31	1,595.62	7.29	62.18	62.25	2.00	2.00	0.00
1,700.00	14.00	83.31	1,693.06	9.91	84.52	84.61	2.00	2.00	0.00
1,800.00	16.00	83.31	1,789.64	12.93	110.22	110.35	2.00	2.00	0.00
1,900.00	18.00	83.31	1,885.27	16.34	139.26	139.42	2.00	2.00	0.00
2,000.00	20.00	83.31	1,979.82	20.13	171.59	171.79	2.00	2.00	0.00
2,100.00	22.00	83.31	2,073.17	24.30	207.18	207.42	2.00	2.00	0.00
2,174.20	23.48	83.31	2,141.60	27.65	235.67	235.95	2.00	2.00	0.00
Start 4712.72 hold at 2174.20 MD									
2,200.00	23.48	83.31	2,165.26	28.84	245.88	246.17	0.00	0.00	0.00
2,300.00	23.48	83.31	2,256.98	33.49	285.46	285.79	0.00	0.00	0.00
2,400.00	23.48	83.31	2,348.70	38.13	325.04	325.41	0.00	0.00	0.00
2,500.00	23.48	83.31	2,440.41	42.77	364.62	365.04	0.00	0.00	0.00
2,600.00	23.48	83.31	2,532.13	47.41	404.19	404.66	0.00	0.00	0.00
2,700.00	23.48	83.31	2,623.85	52.06	443.77	444.29	0.00	0.00	0.00
2,800.00	23.48	83.31	2,715.56	56.70	483.35	483.91	0.00	0.00	0.00
2,900.00	23.48	83.31	2,807.28	61.34	522.93	523.53	0.00	0.00	0.00
3,000.00	23.48	83.31	2,899.00	65.98	562.51	563.16	0.00	0.00	0.00
3,100.00	23.48	83.31	2,990.71	70.63	602.08	602.78	0.00	0.00	0.00
3,200.00	23.48	83.31	3,082.43	75.27	641.66	642.41	0.00	0.00	0.00
3,300.00	23.48	83.31	3,174.15	79.91	681.24	682.03	0.00	0.00	0.00
3,400.00	23.48	83.31	3,265.87	84.56	720.82	721.65	0.00	0.00	0.00
3,500.00	23.48	83.31	3,357.58	89.20	760.40	761.28	0.00	0.00	0.00
3,600.00	23.48	83.31	3,449.30	93.84	799.97	800.90	0.00	0.00	0.00
3,700.00	23.48	83.31	3,541.02	98.48	839.55	840.53	0.00	0.00	0.00
3,764.31	23.48	83.31	3,600.00	101.47	865.01	866.01	0.00	0.00	0.00
PARKMAN									
3,800.00	23.48	83.31	3,632.73	103.13	879.13	880.15	0.00	0.00	0.00
3,900.00	23.48	83.31	3,724.45	107.77	918.71	919.77	0.00	0.00	0.00
4,000.00	23.48	83.31	3,816.17	112.41	958.29	959.40	0.00	0.00	0.00
4,100.00	23.48	83.31	3,907.89	117.05	997.87	999.02	0.00	0.00	0.00
4,200.00	23.48	83.31	3,999.60	121.70	1,037.44	1,038.64	0.00	0.00	0.00
4,300.00	23.48	83.31	4,091.32	126.34	1,077.02	1,078.27	0.00	0.00	0.00
4,353.08	23.48	83.31	4,140.00	128.80	1,098.03	1,099.30	0.00	0.00	0.00
SUSSEX									
4,400.00	23.48	83.31	4,183.04	130.98	1,116.60	1,117.89	0.00	0.00	0.00
4,500.00	23.48	83.31	4,274.75	135.63	1,156.18	1,157.52	0.00	0.00	0.00

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Project:	WELD COUNTY	MD Reference:	KB 25' @ 4675.00usft
Site:	Sec 32-T6N-R65W	North Reference:	True
Well:	WAKE EAST 33E-20-10	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	23.48	83.31	4,366.47	140.27	1,195.76	1,197.14	0.00	0.00	0.00	
4,700.00	23.48	83.31	4,458.19	144.91	1,235.33	1,236.76	0.00	0.00	0.00	
4,800.00	23.48	83.31	4,549.91	149.55	1,274.91	1,276.39	0.00	0.00	0.00	
4,900.00	23.48	83.31	4,641.62	154.20	1,314.49	1,316.01	0.00	0.00	0.00	
4,941.84	23.48	83.31	4,680.00	156.14	1,331.05	1,332.59	0.00	0.00	0.00	
SHANNON										
5,000.00	23.48	83.31	4,733.34	158.84	1,354.07	1,355.64	0.00	0.00	0.00	
5,100.00	23.48	83.31	4,825.06	163.48	1,393.65	1,395.26	0.00	0.00	0.00	
5,200.00	23.48	83.31	4,916.77	168.12	1,433.22	1,434.88	0.00	0.00	0.00	
5,300.00	23.48	83.31	5,008.49	172.77	1,472.80	1,474.51	0.00	0.00	0.00	
5,400.00	23.48	83.31	5,100.21	177.41	1,512.38	1,514.13	0.00	0.00	0.00	
5,500.00	23.48	83.31	5,191.92	182.05	1,551.96	1,553.76	0.00	0.00	0.00	
5,600.00	23.48	83.31	5,283.64	186.69	1,591.54	1,593.38	0.00	0.00	0.00	
5,700.00	23.48	83.31	5,375.36	191.34	1,631.11	1,633.00	0.00	0.00	0.00	
5,800.00	23.48	83.31	5,467.08	195.98	1,670.69	1,672.63	0.00	0.00	0.00	
5,900.00	23.48	83.31	5,558.79	200.62	1,710.27	1,712.25	0.00	0.00	0.00	
6,000.00	23.48	83.31	5,650.51	205.27	1,749.85	1,751.88	0.00	0.00	0.00	
6,100.00	23.48	83.31	5,742.23	209.91	1,789.43	1,791.50	0.00	0.00	0.00	
6,200.00	23.48	83.31	5,833.94	214.55	1,829.00	1,831.12	0.00	0.00	0.00	
6,300.00	23.48	83.31	5,925.66	219.19	1,868.58	1,870.75	0.00	0.00	0.00	
6,400.00	23.48	83.31	6,017.38	223.84	1,908.16	1,910.37	0.00	0.00	0.00	
6,500.00	23.48	83.31	6,109.10	228.48	1,947.74	1,949.99	0.00	0.00	0.00	
6,600.00	23.48	83.31	6,200.81	233.12	1,987.32	1,989.62	0.00	0.00	0.00	
6,700.00	23.48	83.31	6,292.53	237.76	2,026.89	2,029.24	0.00	0.00	0.00	
6,800.00	23.48	83.31	6,384.25	242.41	2,066.47	2,068.87	0.00	0.00	0.00	
6,886.93	23.48	83.31	6,463.98	246.44	2,100.88	2,103.31	0.00	0.00	0.00	
Start DLS 10.00 TFO 8.14										
6,900.00	24.78	83.75	6,475.90	247.04	2,106.19	2,108.63	10.00	9.90	3.38	
6,950.00	29.74	85.11	6,520.34	249.24	2,128.97	2,131.44	10.00	9.92	2.71	
7,000.00	34.71	86.10	6,562.62	251.27	2,155.55	2,158.03	10.00	9.94	1.99	
7,050.00	39.69	86.88	6,602.44	253.11	2,185.72	2,188.21	10.00	9.96	1.55	
7,100.00	44.67	87.51	6,639.48	254.74	2,219.24	2,221.75	10.00	9.96	1.25	
7,150.00	49.66	88.03	6,673.46	256.17	2,255.87	2,258.39	10.00	9.97	1.05	
7,200.00	54.64	88.48	6,704.13	257.36	2,295.32	2,297.85	10.00	9.97	0.91	
7,250.00	59.63	88.88	6,731.25	258.32	2,337.29	2,339.83	10.00	9.98	0.80	
7,300.00	64.62	89.25	6,754.62	259.04	2,381.47	2,384.02	10.00	9.98	0.72	
7,350.00	69.61	89.58	6,774.05	259.51	2,427.52	2,430.07	10.00	9.98	0.67	
7,400.00	74.61	89.89	6,789.41	259.73	2,475.09	2,477.64	10.00	9.98	0.62	
7,446.91	79.29	90.17	6,800.00	259.70	2,520.77	2,523.32	10.00	9.98	0.59	
NIOBRARA										
7,450.00	79.60	90.19	6,800.57	259.69	2,523.81	2,526.36	10.00	9.98	0.58	
7,500.00	84.59	90.48	6,807.44	259.40	2,573.32	2,575.86	10.00	9.98	0.58	
7,554.20	90.00	90.78	6,810.00	258.81	2,627.43	2,629.97	10.00	9.98	0.57	
Start 9661.80 hold at 7554.20 MD										
7,600.00	90.00	90.78	6,810.00	258.18	2,673.23	2,675.75	0.00	0.00	0.00	
7,700.00	90.00	90.78	6,810.00	256.82	2,773.22	2,775.72	0.00	0.00	0.00	
7,800.00	90.00	90.78	6,810.00	255.45	2,873.21	2,875.70	0.00	0.00	0.00	
7,900.00	90.00	90.78	6,810.00	254.09	2,973.20	2,975.67	0.00	0.00	0.00	
8,000.00	90.00	90.78	6,810.00	252.72	3,073.19	3,075.64	0.00	0.00	0.00	
8,100.00	90.00	90.78	6,810.00	251.36	3,173.18	3,175.61	0.00	0.00	0.00	
8,200.00	90.00	90.78	6,810.00	250.00	3,273.17	3,275.58	0.00	0.00	0.00	
8,300.00	90.00	90.78	6,810.00	248.63	3,373.16	3,375.55	0.00	0.00	0.00	
8,400.00	90.00	90.78	6,810.00	247.27	3,473.15	3,475.52	0.00	0.00	0.00	

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Planned Survey										
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8,500.00	90.00	90.78	6,810.00	245.90	3,573.15	3,575.49	0.00	0.00	0.00	
8,600.00	90.00	90.78	6,810.00	244.54	3,673.14	3,675.47	0.00	0.00	0.00	
8,700.00	90.00	90.78	6,810.00	243.17	3,773.13	3,775.44	0.00	0.00	0.00	
8,800.00	90.00	90.78	6,810.00	241.81	3,873.12	3,875.41	0.00	0.00	0.00	
8,900.00	90.00	90.78	6,810.00	240.44	3,973.11	3,975.38	0.00	0.00	0.00	
9,000.00	90.00	90.78	6,810.00	239.08	4,073.10	4,075.35	0.00	0.00	0.00	
9,100.00	90.00	90.78	6,810.00	237.71	4,173.09	4,175.32	0.00	0.00	0.00	
9,200.00	90.00	90.78	6,810.00	236.35	4,273.08	4,275.29	0.00	0.00	0.00	
9,300.00	90.00	90.78	6,810.00	234.98	4,373.07	4,375.26	0.00	0.00	0.00	
9,400.00	90.00	90.78	6,810.00	233.62	4,473.06	4,475.24	0.00	0.00	0.00	
9,500.00	90.00	90.78	6,810.00	232.25	4,573.05	4,575.21	0.00	0.00	0.00	
9,600.00	90.00	90.78	6,810.00	230.89	4,673.04	4,675.18	0.00	0.00	0.00	
9,700.00	90.00	90.78	6,810.00	229.52	4,773.03	4,775.15	0.00	0.00	0.00	
9,800.00	90.00	90.78	6,810.00	228.16	4,873.02	4,875.12	0.00	0.00	0.00	
9,900.00	90.00	90.78	6,810.00	226.79	4,973.01	4,975.09	0.00	0.00	0.00	
10,000.00	90.00	90.78	6,810.00	225.43	5,073.01	5,075.06	0.00	0.00	0.00	
10,100.00	90.00	90.78	6,810.00	224.06	5,173.00	5,175.03	0.00	0.00	0.00	
10,200.00	90.00	90.78	6,810.00	222.70	5,272.99	5,275.01	0.00	0.00	0.00	
10,300.00	90.00	90.78	6,810.00	221.33	5,372.98	5,374.98	0.00	0.00	0.00	
10,400.00	90.00	90.78	6,810.00	219.97	5,472.97	5,474.95	0.00	0.00	0.00	
10,500.00	90.00	90.78	6,810.00	218.60	5,572.96	5,574.92	0.00	0.00	0.00	
10,600.00	90.00	90.78	6,810.00	217.24	5,672.95	5,674.89	0.00	0.00	0.00	
10,700.00	90.00	90.78	6,810.00	215.87	5,772.94	5,774.86	0.00	0.00	0.00	
10,800.00	90.00	90.78	6,810.00	214.51	5,872.93	5,874.83	0.00	0.00	0.00	
10,900.00	90.00	90.78	6,810.00	213.14	5,972.92	5,974.80	0.00	0.00	0.00	
11,000.00	90.00	90.78	6,810.00	211.78	6,072.91	6,074.78	0.00	0.00	0.00	
11,100.00	90.00	90.78	6,810.00	210.41	6,172.90	6,174.75	0.00	0.00	0.00	
11,200.00	90.00	90.78	6,810.00	209.05	6,272.89	6,274.72	0.00	0.00	0.00	
11,300.00	90.00	90.78	6,810.00	207.68	6,372.88	6,374.69	0.00	0.00	0.00	
11,400.00	90.00	90.78	6,810.00	206.32	6,472.88	6,474.66	0.00	0.00	0.00	
11,500.00	90.00	90.78	6,810.00	204.95	6,572.87	6,574.63	0.00	0.00	0.00	
11,600.00	90.00	90.78	6,810.00	203.59	6,672.86	6,674.60	0.00	0.00	0.00	
11,700.00	90.00	90.78	6,810.00	202.22	6,772.85	6,774.57	0.00	0.00	0.00	
11,800.00	90.00	90.78	6,810.00	200.86	6,872.84	6,874.55	0.00	0.00	0.00	
11,900.00	90.00	90.78	6,810.00	199.49	6,972.83	6,974.52	0.00	0.00	0.00	
12,000.00	90.00	90.78	6,810.00	198.13	7,072.82	7,074.49	0.00	0.00	0.00	
12,100.00	90.00	90.78	6,810.00	196.76	7,172.81	7,174.46	0.00	0.00	0.00	
12,200.00	90.00	90.78	6,810.00	195.40	7,272.80	7,274.43	0.00	0.00	0.00	
12,300.00	90.00	90.78	6,810.00	194.04	7,372.79	7,374.40	0.00	0.00	0.00	
12,400.00	90.00	90.78	6,810.00	192.67	7,472.78	7,474.37	0.00	0.00	0.00	
12,500.00	90.00	90.78	6,810.00	191.31	7,572.77	7,574.34	0.00	0.00	0.00	
12,600.00	90.00	90.78	6,810.00	189.94	7,672.76	7,674.32	0.00	0.00	0.00	
12,700.00	90.00	90.78	6,810.00	188.58	7,772.75	7,774.29	0.00	0.00	0.00	
12,800.00	90.00	90.78	6,810.00	187.21	7,872.74	7,874.26	0.00	0.00	0.00	
12,900.00	90.00	90.78	6,810.00	185.85	7,972.74	7,974.23	0.00	0.00	0.00	
13,000.00	90.00	90.78	6,810.00	184.48	8,072.73	8,074.20	0.00	0.00	0.00	
13,100.00	90.00	90.78	6,810.00	183.12	8,172.72	8,174.17	0.00	0.00	0.00	
13,200.00	90.00	90.78	6,810.00	181.75	8,272.71	8,274.14	0.00	0.00	0.00	
13,300.00	90.00	90.78	6,810.00	180.39	8,372.70	8,374.11	0.00	0.00	0.00	
13,400.00	90.00	90.78	6,810.00	179.02	8,472.69	8,474.09	0.00	0.00	0.00	
13,500.00	90.00	90.78	6,810.00	177.66	8,572.68	8,574.06	0.00	0.00	0.00	
13,600.00	90.00	90.78	6,810.00	176.29	8,672.67	8,674.03	0.00	0.00	0.00	
13,700.00	90.00	90.78	6,810.00	174.93	8,772.66	8,774.00	0.00	0.00	0.00	
13,800.00	90.00	90.78	6,810.00	173.56	8,872.65	8,873.97	0.00	0.00	0.00	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 33E-20-10
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 33E-20-10	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	90.78	6,810.00	172.20	8,972.64	8,973.94	0.00	0.00	0.00	
14,000.00	90.00	90.78	6,810.00	170.83	9,072.63	9,073.91	0.00	0.00	0.00	
14,100.00	90.00	90.78	6,810.00	169.47	9,172.62	9,173.88	0.00	0.00	0.00	
14,200.00	90.00	90.78	6,810.00	168.10	9,272.61	9,273.86	0.00	0.00	0.00	
14,300.00	90.00	90.78	6,810.00	166.74	9,372.61	9,373.83	0.00	0.00	0.00	
14,400.00	90.00	90.78	6,810.00	165.37	9,472.60	9,473.80	0.00	0.00	0.00	
14,500.00	90.00	90.78	6,810.00	164.01	9,572.59	9,573.77	0.00	0.00	0.00	
14,600.00	90.00	90.78	6,810.00	162.64	9,672.58	9,673.74	0.00	0.00	0.00	
14,700.00	90.00	90.78	6,810.00	161.28	9,772.57	9,773.71	0.00	0.00	0.00	
14,800.00	90.00	90.78	6,810.00	159.91	9,872.56	9,873.68	0.00	0.00	0.00	
14,900.00	90.00	90.78	6,810.00	158.55	9,972.55	9,973.65	0.00	0.00	0.00	
15,000.00	90.00	90.78	6,810.00	157.18	10,072.54	10,073.63	0.00	0.00	0.00	
15,100.00	90.00	90.78	6,810.00	155.82	10,172.53	10,173.60	0.00	0.00	0.00	
15,200.00	90.00	90.78	6,810.00	154.45	10,272.52	10,273.57	0.00	0.00	0.00	
15,300.00	90.00	90.78	6,810.00	153.09	10,372.51	10,373.54	0.00	0.00	0.00	
15,400.00	90.00	90.78	6,810.00	151.72	10,472.50	10,473.51	0.00	0.00	0.00	
15,500.00	90.00	90.78	6,810.00	150.36	10,572.49	10,573.48	0.00	0.00	0.00	
15,600.00	90.00	90.78	6,810.00	148.99	10,672.48	10,673.45	0.00	0.00	0.00	
15,700.00	90.00	90.78	6,810.00	147.63	10,772.47	10,773.43	0.00	0.00	0.00	
15,800.00	90.00	90.78	6,810.00	146.26	10,872.47	10,873.40	0.00	0.00	0.00	
15,900.00	90.00	90.78	6,810.00	144.90	10,972.46	10,973.37	0.00	0.00	0.00	
16,000.00	90.00	90.78	6,810.00	143.53	11,072.45	11,073.34	0.00	0.00	0.00	
16,100.00	90.00	90.78	6,810.00	142.17	11,172.44	11,173.31	0.00	0.00	0.00	
16,200.00	90.00	90.78	6,810.00	140.80	11,272.43	11,273.28	0.00	0.00	0.00	
16,300.00	90.00	90.78	6,810.00	139.44	11,372.42	11,373.25	0.00	0.00	0.00	
16,400.00	90.00	90.78	6,810.00	138.07	11,472.41	11,473.22	0.00	0.00	0.00	
16,500.00	90.00	90.78	6,810.00	136.71	11,572.40	11,573.20	0.00	0.00	0.00	
16,600.00	90.00	90.78	6,810.00	135.35	11,672.39	11,673.17	0.00	0.00	0.00	
16,700.00	90.00	90.78	6,810.00	133.98	11,772.38	11,773.14	0.00	0.00	0.00	
16,800.00	90.00	90.78	6,810.00	132.62	11,872.37	11,873.11	0.00	0.00	0.00	
16,900.00	90.00	90.78	6,810.00	131.25	11,972.36	11,973.08	0.00	0.00	0.00	
17,000.00	90.00	90.78	6,810.00	129.89	12,072.35	12,073.05	0.00	0.00	0.00	
17,100.00	90.00	90.78	6,810.00	128.52	12,172.34	12,173.02	0.00	0.00	0.00	
17,200.00	90.00	90.78	6,810.00	127.16	12,272.34	12,272.99	0.00	0.00	0.00	
17,216.00	90.00	90.78	6,810.00	126.94	12,288.33	12,288.99	0.00	0.00	0.00	
TD at 17216.00										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
WAKE EAST 10 - LP	0.00	0.00	6,810.00	258.81	2,627.43	1,405,629.24	3,229,301.56	40° 26' 38.148 N	104° 40' 34.104 W	
- plan hits target center										
- Point										
WAKE EAST 10 - PBHL	0.00	0.00	6,810.00	126.94	12,288.33	1,405,586.10	3,238,963.26	40° 26' 36.816 N	104° 38' 29.148 W	
- plan hits target center										
- Point										

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well WAKE EAST 33E-20-10
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 33E-20-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,764.31	3,600.00	PARKMAN			
4,353.08	4,140.00	SUSSEX			
4,941.84	4,680.00	SHANNON			
7,446.91	6,800.00	NIOBRARA			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.00	1,000.00	0.00	0.00	Start Build 2.00
2,174.20	2,141.60	27.65	235.67	Start 4712.72 hold at 2174.20 MD
6,886.93	6,463.98	246.44	2,100.88	Start DLS 10.00 TFO 8.14
7,554.20	6,810.00	258.81	2,627.43	Start 9661.80 hold at 7554.20 MD
17,216.00	6,810.00	126.94	12,288.33	TD at 17216.00