

EXTRACTION OIL & GAS

Weld County

Sec 35-T5N-R68W

JOHNSONS CORNER 2-N

ORIGINAL WELLBORE

Plan: PROPOSAL #1

Standard Planning Report

27 March, 2017



Project: Weld County
Site: Sec 35-T5N-R68W
Well: JOHNSONS CORNER 2-N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1



Azimuths to True North
Magnetic North: 8.62°

Magnetic Field
Strength: 52673.7snT
Dip Angle: 66.86°
Date: 8/14/2014
Model: IGRF2015

WELL DETAILS: JOHNSONS CORNER 2-N

+N/-S	+E/-W	Northing	Ground Level:	5008.0	Latitude	Longitude	Slot
0.0	0.0	1373616.66	Easting	3146750.68	40° 21' 28.019 N	104° 58' 24.283 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1050.0	0.00	0.00	1050.0	0.0	0.0	0.00	0.00	0.0	
3	2347.0	25.94	358.21	2303.1	288.5	-9.0	2.00	358.21	64.8	
4	5538.3	25.94	358.21	5173.0	1683.8	-52.6	0.00	0.00	378.1	
5	6835.3	0.00	0.00	6426.1	1972.2	-61.6	2.00	180.00	442.9	
6	6865.3	0.00	0.00	6456.1	1972.2	-61.6	0.00	0.00	442.9	
7	7765.2	90.00	270.34	7029.0	1975.6	-634.5	10.00	270.34	1005.6	KOP -
8	17406.0	90.00	270.33	7029.0	2031.3	-10275.1	0.00	-114.36	10473.9	LP - J BHL -

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1050.0	0.00	0.00	1050.0	0.0	0.0	0.0	0.0	Build 2"/100'
2347.0	25.94	358.21	2303.1	288.5	-9.0	64.8	288.6	Hold 25.94° Inc
5538.3	25.94	358.21	5173.0	1683.8	-52.6	378.1	1684.6	Drop 2"/100'
6835.3	0.00	0.00	6426.1	1972.2	-61.6	442.9	1973.2	Hold Vertical
6865.3	0.00	0.00	6456.1	1972.2	-61.6	442.9	1973.2	KOP, Build 10"/100'
7765.2	90.00	270.34	7029.0	1975.6	-634.5	1005.6	2546.1	LP @ 90° Inc
17406.0	90.00	270.33	7029.0	2031.3	-10275.1	10473.9	12186.8	TD at 17406.0' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BHL - JOHNSONS CORNER 2	7029.0	2031.3	-10275.1	1375586.87	3136463.73	40° 21' 48.071 N	105° 0' 37.026 W	Point
LP - JOHNSONS CORNER 2	7029.0	1975.6	-634.5	1375588.44	3146104.45	40° 21' 47.542 N	104° 58' 32.480 W	Point

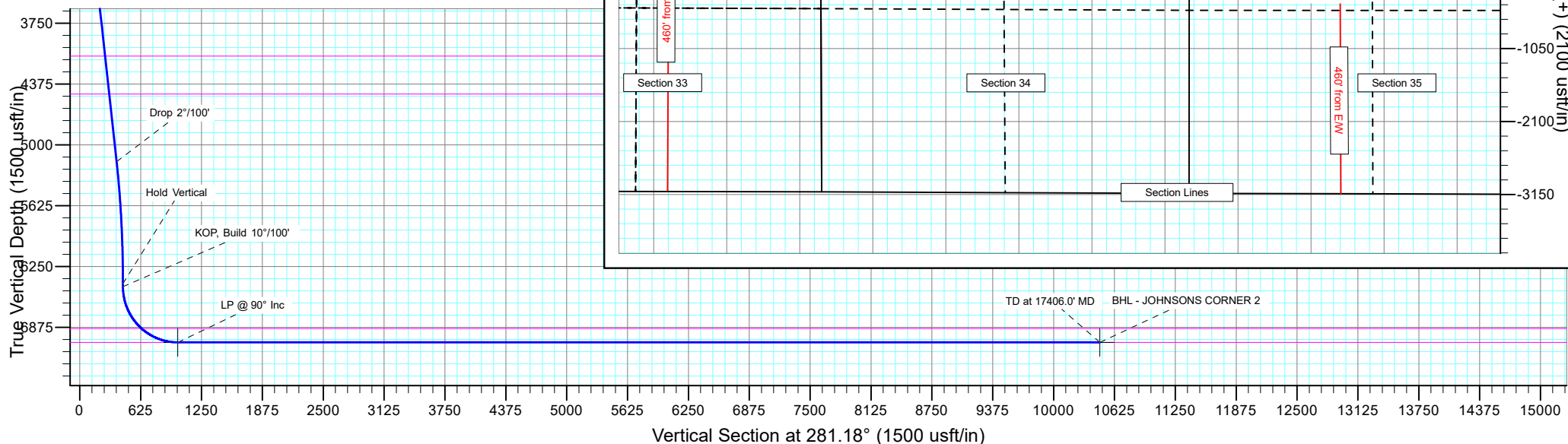
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3360.0	3522.3	PARKMAN
4087.0	4330.7	SUSSEX
4477.0	4764.4	SHANNON
6887.0	7353.0	NIOBRARA
7029.0	7765.2	NIO B TGT

PROJECT DETAILS: Weld County

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

SHL:
2136' FNL, 2452' FEL
Sec 35-T5N-R68W
LP:
160' FNL, 2166' FWL
Sec 35-T5N-R68W
BHL:
138' FNL, 2177' FEL
Sec 33-T5N-R68W



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JOHNSONS CORNER 2-N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Project:	Weld County	MD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Site:	Sec 35-T5N-R68W	North Reference:	True
Well:	JOHNSONS CORNER 2-N	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 35-T5N-R68W			
Site Position:		Northing:	1,373,645.09 usft	Latitude:	40° 21' 28.300 N
From:	Lat/Long	Easting:	3,146,750.79 usft	Longitude:	104° 58' 24.280 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence:	0.34 °

Well	JOHNSONS CORNER 2-N					
Well Position	+N/-S	-28.4 usft	Northing:	1,373,616.66 usft	Latitude:	40° 21' 28.019 N
	+E/-W	-0.3 usft	Easting:	3,146,750.68 usft	Longitude:	104° 58' 24.283 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,008.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/14/2014	8.62	66.86	52,673.74862259

Design	PROPOSAL #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	281.18

Plan Survey Tool Program			Date	3/27/2017	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,406.0	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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,347.0	25.94	358.21	2,303.1	288.5	-9.0	2.00	2.00	0.00	358.21	
5,538.3	25.94	358.21	5,173.0	1,683.8	-52.6	0.00	0.00	0.00	0.00	
6,835.3	0.00	0.00	6,426.1	1,972.2	-61.6	2.00	-2.00	0.00	180.00	
6,865.3	0.00	0.00	6,456.1	1,972.2	-61.6	0.00	0.00	0.00	0.00	KOP - JOHNSONS C
7,765.2	90.00	270.34	7,029.0	1,975.6	-634.5	10.00	10.00	-9.96	270.34	LP - JOHNSONS COI
17,406.0	90.00	270.33	7,029.0	2,031.3	-10,275.1	0.00	0.00	0.00	-114.36	BHL - JOHNSONS C

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JOHNSONS CORNER 2-N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Project:	Weld County	MD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Site:	Sec 35-T5N-R68W	North Reference:	True
Well:	JOHNSONS CORNER 2-N	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 2°/100'									
1,100.0	1.00	358.21	1,100.0	0.4	0.0	0.1	2.00	2.00	0.00
1,200.0	3.00	358.21	1,199.9	3.9	-0.1	0.9	2.00	2.00	0.00
1,300.0	5.00	358.21	1,299.7	10.9	-0.3	2.4	2.00	2.00	0.00
1,400.0	7.00	358.21	1,399.1	21.3	-0.7	4.8	2.00	2.00	0.00
1,500.0	9.00	358.21	1,498.2	35.3	-1.1	7.9	2.00	2.00	0.00
1,600.0	11.00	358.21	1,596.6	52.6	-1.6	11.8	2.00	2.00	0.00
1,700.0	13.00	358.21	1,694.4	73.4	-2.3	16.5	2.00	2.00	0.00
1,800.0	15.00	358.21	1,791.5	97.6	-3.0	21.9	2.00	2.00	0.00
1,900.0	17.00	358.21	1,887.6	125.1	-3.9	28.1	2.00	2.00	0.00
2,000.0	19.00	358.21	1,982.7	156.0	-4.9	35.0	2.00	2.00	0.00
2,100.0	21.00	358.21	2,076.6	190.2	-5.9	42.7	2.00	2.00	0.00
2,200.0	23.00	358.21	2,169.4	227.6	-7.1	51.1	2.00	2.00	0.00
2,300.0	25.00	358.21	2,260.7	268.3	-8.4	60.2	2.00	2.00	0.00
2,347.0	25.94	358.21	2,303.1	288.5	-9.0	64.8	2.00	2.00	0.00
Hold 25.94° Inc									
2,400.0	25.94	358.21	2,350.8	311.7	-9.7	70.0	0.00	0.00	0.00
2,500.0	25.94	358.21	2,440.7	355.4	-11.1	79.8	0.00	0.00	0.00
2,600.0	25.94	358.21	2,530.7	399.1	-12.5	89.6	0.00	0.00	0.00
2,700.0	25.94	358.21	2,620.6	442.8	-13.8	99.4	0.00	0.00	0.00
2,800.0	25.94	358.21	2,710.5	486.5	-15.2	109.3	0.00	0.00	0.00
2,900.0	25.94	358.21	2,800.4	530.3	-16.6	119.1	0.00	0.00	0.00
3,000.0	25.94	358.21	2,890.4	574.0	-17.9	128.9	0.00	0.00	0.00
3,100.0	25.94	358.21	2,980.3	617.7	-19.3	138.7	0.00	0.00	0.00
3,200.0	25.94	358.21	3,070.2	661.4	-20.7	148.5	0.00	0.00	0.00
3,300.0	25.94	358.21	3,160.1	705.1	-22.0	158.4	0.00	0.00	0.00
3,400.0	25.94	358.21	3,250.1	748.9	-23.4	168.2	0.00	0.00	0.00
3,500.0	25.94	358.21	3,340.0	792.6	-24.8	178.0	0.00	0.00	0.00
3,522.3	25.94	358.21	3,360.0	802.3	-25.1	180.2	0.00	0.00	0.00
PARKMAN									
3,600.0	25.94	358.21	3,429.9	836.3	-26.1	187.8	0.00	0.00	0.00
3,700.0	25.94	358.21	3,519.8	880.0	-27.5	197.6	0.00	0.00	0.00
3,800.0	25.94	358.21	3,609.8	923.7	-28.9	207.4	0.00	0.00	0.00
3,900.0	25.94	358.21	3,699.7	967.5	-30.2	217.3	0.00	0.00	0.00
4,000.0	25.94	358.21	3,789.6	1,011.2	-31.6	227.1	0.00	0.00	0.00
4,100.0	25.94	358.21	3,879.5	1,054.9	-32.9	236.9	0.00	0.00	0.00
4,200.0	25.94	358.21	3,969.5	1,098.6	-34.3	246.7	0.00	0.00	0.00
4,300.0	25.94	358.21	4,059.4	1,142.3	-35.7	256.5	0.00	0.00	0.00
4,330.7	25.94	358.21	4,087.0	1,155.8	-36.1	259.6	0.00	0.00	0.00
SUSSEX									
4,400.0	25.94	358.21	4,149.3	1,186.1	-37.0	266.4	0.00	0.00	0.00

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Project:	Weld County	MD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Site:	Sec 35-T5N-R68W	North Reference:	True
Well:	JOHNSONS CORNER 2-N	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)
4,500.0	25.94	358.21	4,239.2	1,229.8	-38.4	276.2	0.00	0.00	0.00
4,600.0	25.94	358.21	4,329.2	1,273.5	-39.8	286.0	0.00	0.00	0.00
4,700.0	25.94	358.21	4,419.1	1,317.2	-41.1	295.8	0.00	0.00	0.00
4,764.4	25.94	358.21	4,477.0	1,345.4	-42.0	302.1	0.00	0.00	0.00
SHANNON									
4,800.0	25.94	358.21	4,509.0	1,360.9	-42.5	305.6	0.00	0.00	0.00
4,900.0	25.94	358.21	4,598.9	1,404.7	-43.9	315.5	0.00	0.00	0.00
5,000.0	25.94	358.21	4,688.9	1,448.4	-45.2	325.3	0.00	0.00	0.00
5,100.0	25.94	358.21	4,778.8	1,492.1	-46.6	335.1	0.00	0.00	0.00
5,200.0	25.94	358.21	4,868.7	1,535.8	-48.0	344.9	0.00	0.00	0.00
5,300.0	25.94	358.21	4,958.7	1,579.6	-49.3	354.7	0.00	0.00	0.00
5,400.0	25.94	358.21	5,048.6	1,623.3	-50.7	364.5	0.00	0.00	0.00
5,500.0	25.94	358.21	5,138.5	1,667.0	-52.1	374.4	0.00	0.00	0.00
5,538.3	25.94	358.21	5,173.0	1,683.8	-52.6	378.1	0.00	0.00	0.00
Drop 2°/100'									
5,600.0	24.71	358.21	5,228.7	1,710.1	-53.4	384.0	2.00	-2.00	0.00
5,700.0	22.71	358.21	5,320.3	1,750.3	-54.7	393.1	2.00	-2.00	0.00
5,800.0	20.71	358.21	5,413.2	1,787.3	-55.8	401.4	2.00	-2.00	0.00
5,900.0	18.71	358.21	5,507.3	1,821.0	-56.9	408.9	2.00	-2.00	0.00
6,000.0	16.71	358.21	5,602.6	1,851.4	-57.8	415.8	2.00	-2.00	0.00
6,100.0	14.71	358.21	5,698.8	1,878.4	-58.7	421.8	2.00	-2.00	0.00
6,200.0	12.71	358.21	5,796.0	1,902.1	-59.4	427.2	2.00	-2.00	0.00
6,300.0	10.71	358.21	5,893.9	1,922.4	-60.0	431.7	2.00	-2.00	0.00
6,400.0	8.71	358.21	5,992.5	1,939.2	-60.6	435.5	2.00	-2.00	0.00
6,500.0	6.71	358.21	6,091.6	1,952.6	-61.0	438.5	2.00	-2.00	0.00
6,600.0	4.71	358.21	6,191.1	1,962.6	-61.3	440.7	2.00	-2.00	0.00
6,700.0	2.71	358.21	6,290.8	1,969.0	-61.5	442.2	2.00	-2.00	0.00
6,800.0	0.71	358.21	6,390.8	1,972.0	-61.6	442.9	2.00	-2.00	0.00
6,835.3	0.00	0.00	6,426.1	1,972.2	-61.6	442.9	2.00	-2.00	5.07
Hold Vertical									
6,865.3	0.00	0.00	6,456.1	1,972.2	-61.6	442.9	0.00	0.00	0.00
KOP, Build 10°/100'									
6,900.0	3.47	270.34	6,490.8	1,972.2	-62.6	443.9	10.00	10.00	0.00
6,950.0	8.47	270.34	6,540.5	1,972.3	-67.8	449.0	10.00	10.00	0.00
7,000.0	13.47	270.34	6,589.5	1,972.3	-77.4	458.4	10.00	10.00	0.00
7,050.0	18.47	270.34	6,637.6	1,972.4	-91.1	471.9	10.00	10.00	0.00
7,100.0	23.47	270.34	6,684.3	1,972.5	-109.0	489.5	10.00	10.00	0.00
7,150.0	28.47	270.34	6,729.2	1,972.6	-130.9	511.0	10.00	10.00	0.00
7,200.0	33.47	270.34	6,772.1	1,972.8	-156.6	536.2	10.00	10.00	0.00
7,250.0	38.47	270.34	6,812.5	1,973.0	-186.0	565.1	10.00	10.00	0.00
7,300.0	43.47	270.34	6,850.3	1,973.1	-218.7	597.3	10.00	10.00	0.00
7,350.0	48.47	270.34	6,885.0	1,973.4	-254.7	632.5	10.00	10.00	0.00
7,353.0	48.78	270.34	6,887.0	1,973.4	-256.9	634.8	10.00	10.00	0.00
NIOBRARA									
7,400.0	53.47	270.34	6,916.5	1,973.6	-293.5	670.7	10.00	10.00	0.00
7,450.0	58.47	270.34	6,944.4	1,973.8	-334.9	711.4	10.00	10.00	0.00
7,500.0	63.48	270.34	6,968.7	1,974.1	-378.6	754.3	10.00	10.00	0.00
7,550.0	68.48	270.34	6,989.0	1,974.4	-424.3	799.1	10.00	10.00	0.00
7,600.0	73.48	270.34	7,005.3	1,974.6	-471.5	845.5	10.00	10.00	0.00
7,650.0	78.48	270.34	7,017.5	1,974.9	-520.0	893.2	10.00	10.00	0.00
7,700.0	83.48	270.34	7,025.3	1,975.2	-569.4	941.7	10.00	10.00	0.00
7,750.0	88.48	270.34	7,028.8	1,975.5	-619.3	990.6	10.00	10.00	0.00
7,765.2	90.00	270.34	7,029.0	1,975.6	-634.5	1,005.6	10.00	10.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JOHNSONS CORNER 2-N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Project:	Weld County	MD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Site:	Sec 35-T5N-R68W	North Reference:	True
Well:	JOHNSONS CORNER 2-N	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)
LP @ 90° Inc - NIO B TGT									
7,800.0	90.00	270.34	7,029.0	1,975.8	-669.3	1,039.7	0.00	0.00	0.00
7,900.0	90.00	270.34	7,029.0	1,976.4	-769.3	1,137.9	0.00	0.00	0.00
8,000.0	90.00	270.34	7,029.0	1,977.0	-869.3	1,236.2	0.00	0.00	0.00
8,100.0	90.00	270.34	7,029.0	1,977.5	-969.3	1,334.4	0.00	0.00	0.00
8,200.0	90.00	270.34	7,029.0	1,978.1	-1,069.3	1,432.6	0.00	0.00	0.00
8,300.0	90.00	270.34	7,029.0	1,978.7	-1,169.3	1,530.8	0.00	0.00	0.00
8,400.0	90.00	270.34	7,029.0	1,979.3	-1,269.3	1,629.0	0.00	0.00	0.00
8,500.0	90.00	270.34	7,029.0	1,979.9	-1,369.3	1,727.2	0.00	0.00	0.00
8,600.0	90.00	270.34	7,029.0	1,980.5	-1,469.3	1,825.4	0.00	0.00	0.00
8,700.0	90.00	270.34	7,029.0	1,981.1	-1,569.2	1,923.7	0.00	0.00	0.00
8,800.0	90.00	270.34	7,029.0	1,981.6	-1,669.2	2,021.9	0.00	0.00	0.00
8,900.0	90.00	270.34	7,029.0	1,982.2	-1,769.2	2,120.1	0.00	0.00	0.00
9,000.0	90.00	270.33	7,029.0	1,982.8	-1,869.2	2,218.3	0.00	0.00	0.00
9,100.0	90.00	270.33	7,029.0	1,983.4	-1,969.2	2,316.5	0.00	0.00	0.00
9,200.0	90.00	270.33	7,028.9	1,984.0	-2,069.2	2,414.7	0.00	0.00	0.00
9,300.0	90.00	270.33	7,028.9	1,984.6	-2,169.2	2,512.9	0.00	0.00	0.00
9,400.0	90.00	270.33	7,028.9	1,985.2	-2,269.2	2,611.1	0.00	0.00	0.00
9,500.0	90.00	270.33	7,028.9	1,985.7	-2,369.2	2,709.4	0.00	0.00	0.00
9,600.0	90.00	270.33	7,028.9	1,986.3	-2,469.2	2,807.6	0.00	0.00	0.00
9,700.0	90.00	270.33	7,028.9	1,986.9	-2,569.2	2,905.8	0.00	0.00	0.00
9,800.0	90.00	270.33	7,028.9	1,987.5	-2,669.2	3,004.0	0.00	0.00	0.00
9,900.0	90.00	270.33	7,028.9	1,988.1	-2,769.2	3,102.2	0.00	0.00	0.00
10,000.0	90.00	270.33	7,028.9	1,988.7	-2,869.2	3,200.4	0.00	0.00	0.00
10,100.0	90.00	270.33	7,028.9	1,989.2	-2,969.2	3,298.6	0.00	0.00	0.00
10,200.0	90.00	270.33	7,028.9	1,989.8	-3,069.2	3,396.8	0.00	0.00	0.00
10,300.0	90.00	270.33	7,028.9	1,990.4	-3,169.2	3,495.1	0.00	0.00	0.00
10,400.0	90.00	270.33	7,028.9	1,991.0	-3,269.2	3,593.3	0.00	0.00	0.00
10,500.0	90.00	270.33	7,028.9	1,991.6	-3,369.2	3,691.5	0.00	0.00	0.00
10,600.0	90.00	270.33	7,028.9	1,992.1	-3,469.2	3,789.7	0.00	0.00	0.00
10,700.0	90.00	270.33	7,028.9	1,992.7	-3,569.2	3,887.9	0.00	0.00	0.00
10,800.0	90.00	270.33	7,028.9	1,993.3	-3,669.2	3,986.1	0.00	0.00	0.00
10,900.0	90.00	270.33	7,028.9	1,993.9	-3,769.2	4,084.3	0.00	0.00	0.00
11,000.0	90.00	270.33	7,028.9	1,994.5	-3,869.2	4,182.5	0.00	0.00	0.00
11,100.0	90.00	270.33	7,028.9	1,995.1	-3,969.2	4,280.8	0.00	0.00	0.00
11,200.0	90.00	270.33	7,028.9	1,995.6	-4,069.2	4,379.0	0.00	0.00	0.00
11,300.0	90.00	270.33	7,028.9	1,996.2	-4,169.2	4,477.2	0.00	0.00	0.00
11,400.0	90.00	270.33	7,028.9	1,996.8	-4,269.2	4,575.4	0.00	0.00	0.00
11,500.0	90.00	270.33	7,028.9	1,997.4	-4,369.2	4,673.6	0.00	0.00	0.00
11,600.0	90.00	270.33	7,028.9	1,998.0	-4,469.2	4,771.8	0.00	0.00	0.00
11,700.0	90.00	270.33	7,028.9	1,998.5	-4,569.2	4,870.0	0.00	0.00	0.00
11,800.0	90.00	270.33	7,028.9	1,999.1	-4,669.2	4,968.2	0.00	0.00	0.00
11,900.0	90.00	270.33	7,028.9	1,999.7	-4,769.2	5,066.5	0.00	0.00	0.00
12,000.0	90.00	270.33	7,028.9	2,000.3	-4,869.2	5,164.7	0.00	0.00	0.00
12,100.0	90.00	270.33	7,028.9	2,000.8	-4,969.2	5,262.9	0.00	0.00	0.00
12,200.0	90.00	270.33	7,028.9	2,001.4	-5,069.2	5,361.1	0.00	0.00	0.00
12,300.0	90.00	270.33	7,028.9	2,002.0	-5,169.2	5,459.3	0.00	0.00	0.00
12,400.0	90.00	270.33	7,028.9	2,002.6	-5,269.2	5,557.5	0.00	0.00	0.00
12,500.0	90.00	270.33	7,028.9	2,003.2	-5,369.2	5,655.7	0.00	0.00	0.00
12,600.0	90.00	270.33	7,028.9	2,003.7	-5,469.2	5,753.9	0.00	0.00	0.00
12,700.0	90.00	270.33	7,028.9	2,004.3	-5,569.2	5,852.2	0.00	0.00	0.00
12,800.0	90.00	270.33	7,028.9	2,004.9	-5,669.2	5,950.4	0.00	0.00	0.00
12,900.0	90.00	270.33	7,028.9	2,005.5	-5,769.2	6,048.6	0.00	0.00	0.00
13,000.0	90.00	270.33	7,028.9	2,006.0	-5,869.2	6,146.8	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JOHNSONS CORNER 2-N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Project:	Weld County	MD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Site:	Sec 35-T5N-R68W	North Reference:	True
Well:	JOHNSONS CORNER 2-N	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)
13,100.0	90.00	270.33	7,028.9	2,006.6	-5,969.2	6,245.0	0.00	0.00	0.00
13,200.0	90.00	270.33	7,028.9	2,007.2	-6,069.2	6,343.2	0.00	0.00	0.00
13,300.0	90.00	270.33	7,028.9	2,007.8	-6,169.2	6,441.4	0.00	0.00	0.00
13,400.0	90.00	270.33	7,028.9	2,008.4	-6,269.2	6,539.6	0.00	0.00	0.00
13,500.0	90.00	270.33	7,028.9	2,008.9	-6,369.2	6,637.8	0.00	0.00	0.00
13,600.0	90.00	270.33	7,028.9	2,009.5	-6,469.2	6,736.1	0.00	0.00	0.00
13,700.0	90.00	270.33	7,028.9	2,010.1	-6,569.2	6,834.3	0.00	0.00	0.00
13,800.0	90.00	270.33	7,028.9	2,010.7	-6,669.2	6,932.5	0.00	0.00	0.00
13,900.0	90.00	270.33	7,028.9	2,011.2	-6,769.2	7,030.7	0.00	0.00	0.00
14,000.0	90.00	270.33	7,028.9	2,011.8	-6,869.2	7,128.9	0.00	0.00	0.00
14,100.0	90.00	270.33	7,028.9	2,012.4	-6,969.2	7,227.1	0.00	0.00	0.00
14,200.0	90.00	270.33	7,028.9	2,013.0	-7,069.2	7,325.3	0.00	0.00	0.00
14,300.0	90.00	270.33	7,028.9	2,013.5	-7,169.2	7,423.5	0.00	0.00	0.00
14,400.0	90.00	270.33	7,028.9	2,014.1	-7,269.2	7,521.7	0.00	0.00	0.00
14,500.0	90.00	270.33	7,028.9	2,014.7	-7,369.2	7,620.0	0.00	0.00	0.00
14,600.0	90.00	270.33	7,028.9	2,015.2	-7,469.1	7,718.2	0.00	0.00	0.00
14,700.0	90.00	270.33	7,028.9	2,015.8	-7,569.1	7,816.4	0.00	0.00	0.00
14,800.0	90.00	270.33	7,028.9	2,016.4	-7,669.1	7,914.6	0.00	0.00	0.00
14,900.0	90.00	270.33	7,028.9	2,017.0	-7,769.1	8,012.8	0.00	0.00	0.00
15,000.0	90.00	270.33	7,028.9	2,017.5	-7,869.1	8,111.0	0.00	0.00	0.00
15,100.0	90.00	270.33	7,028.9	2,018.1	-7,969.1	8,209.2	0.00	0.00	0.00
15,200.0	90.00	270.33	7,028.9	2,018.7	-8,069.1	8,307.4	0.00	0.00	0.00
15,300.0	90.00	270.33	7,028.9	2,019.3	-8,169.1	8,405.6	0.00	0.00	0.00
15,400.0	90.00	270.33	7,028.9	2,019.8	-8,269.1	8,503.9	0.00	0.00	0.00
15,500.0	90.00	270.33	7,028.9	2,020.4	-8,369.1	8,602.1	0.00	0.00	0.00
15,600.0	90.00	270.33	7,028.9	2,021.0	-8,469.1	8,700.3	0.00	0.00	0.00
15,700.0	90.00	270.33	7,028.9	2,021.5	-8,569.1	8,798.5	0.00	0.00	0.00
15,800.0	90.00	270.33	7,028.9	2,022.1	-8,669.1	8,896.7	0.00	0.00	0.00
15,900.0	90.00	270.33	7,028.9	2,022.7	-8,769.1	8,994.9	0.00	0.00	0.00
16,000.0	90.00	270.33	7,028.9	2,023.3	-8,869.1	9,093.1	0.00	0.00	0.00
16,100.0	90.00	270.33	7,029.0	2,023.8	-8,969.1	9,191.3	0.00	0.00	0.00
16,200.0	90.00	270.33	7,029.0	2,024.4	-9,069.1	9,289.5	0.00	0.00	0.00
16,300.0	90.00	270.33	7,029.0	2,025.0	-9,169.1	9,387.8	0.00	0.00	0.00
16,400.0	90.00	270.33	7,029.0	2,025.5	-9,269.1	9,486.0	0.00	0.00	0.00
16,500.0	90.00	270.33	7,029.0	2,026.1	-9,369.1	9,584.2	0.00	0.00	0.00
16,600.0	90.00	270.33	7,029.0	2,026.7	-9,469.1	9,682.4	0.00	0.00	0.00
16,700.0	90.00	270.33	7,029.0	2,027.3	-9,569.1	9,780.6	0.00	0.00	0.00
16,800.0	90.00	270.33	7,029.0	2,027.8	-9,669.1	9,878.8	0.00	0.00	0.00
16,900.0	90.00	270.33	7,029.0	2,028.4	-9,769.1	9,977.0	0.00	0.00	0.00
17,000.0	90.00	270.33	7,029.0	2,029.0	-9,869.1	10,075.2	0.00	0.00	0.00
17,100.0	90.00	270.33	7,029.0	2,029.5	-9,969.1	10,173.4	0.00	0.00	0.00
17,200.0	90.00	270.33	7,029.0	2,030.1	-10,069.1	10,271.6	0.00	0.00	0.00
17,300.0	90.00	270.33	7,029.0	2,030.7	-10,169.1	10,369.9	0.00	0.00	0.00
17,406.0	90.00	270.33	7,029.0	2,031.3	-10,275.1	10,473.9	0.00	0.00	0.00
TD at 17406.0' MD									

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JOHNSONS CORNER 2-N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Project:	Weld County	MD Reference:	KB-EST @ 5032.0usft (Original Well Elev)
Site:	Sec 35-T5N-R68W	North Reference:	True
Well:	JOHNSONS CORNER 2-N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
LP - JOHNSONS CORN	0.00	0.00	7,029.0	1,975.6	-634.5	1,375,588.45	3,146,104.45	40° 21' 47.542 N	104° 58' 32.480 W
- plan hits target center									
- Point									
BHL - JOHNSONS COR	0.00	0.00	7,029.0	2,031.3	-10,275.1	1,375,586.87	3,136,463.73	40° 21' 48.071 N	105° 0' 37.026 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,522.3	3,360.0	PARKMAN		0.00		
4,330.7	4,087.0	SUSSEX		0.00		
4,764.4	4,477.0	SHANNON		0.00		
7,353.0	6,887.0	NIOBRARA		0.00		
7,765.2	7,029.0	NIO B TGT		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
1,050.0	1,050.0	0.0	0.0	Build 2°/100'	
2,347.0	2,303.1	288.5	-9.0	Hold 25.94° Inc	
5,538.3	5,173.0	1,683.8	-52.6	Drop 2°/100'	
6,835.3	6,426.1	1,972.2	-61.6	Hold Vertical	
6,865.3	6,456.1	1,972.2	-61.6	KOP, Build 10°/100'	
7,765.2	7,029.0	1,975.6	-634.5	LP @ 90° Inc	
17,406.0	7,029.0	2,031.3	-10,275.1	TD at 17406.0' MD	