

# **EXTRACTION OIL & GAS**

**Weld County**

**Sec 3-T4N-R68W**

**JESSER 3E-10-7N**

**ORIGINAL WELLBORE**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

**25 May, 2017**



WELL DETAILS: JESSER 3E-10-7N

+N/-S	+E/-W	Northing	Easting	5112.0	Latitude	Longitude	Slot
0.0	0.0	1367719.62	3140071.89	40° 20' 30.127 N	104° 59' 50.989 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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1743.5	10.87	317.18	1740.2	37.7	-34.9	2.00	317.18	-28.2	
4	6337.3	10.87	317.18	6251.6	673.2	-623.7	0.00	0.00	-503.4	
5	7311.2	90.00	90.21	6892.0	761.0	-55.2	10.00	132.51	71.8	
6	7911.2	90.00	90.21	6892.0	758.8	544.8	0.00	0.00	663.1	
7	8200.7	90.00	96.00	6892.0	743.2	833.8	2.00	90.00	945.5	
8	8600.7	90.00	96.00	6892.0	701.3	1231.6	0.00	0.00	1330.9	
9	8959.7	90.00	88.82	6892.0	686.3	1590.0	2.00	-90.00	1681.8	
10	11797.8	90.00	88.82	6892.0	744.7	4427.5	0.00	0.00	4489.7	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1200.0	0.00	0.00	1200.0	0.0	0.0	0.0	0.0	BUILD 2°/100'
1743.5	10.87	317.18	1740.2	37.7	-34.9	-28.2	51.4	HOLD 10.87° INC
6337.3	10.87	317.18	6251.6	673.2	-623.7	-503.4	917.7	KOP, BUILD 10°/100'
7311.2	90.00	90.21	6892.0	761.0	-55.2	71.8	1518.7	LP @ 90° INC
7911.2	90.00	90.21	6892.0	758.8	544.8	663.1	2118.7	HOLD
8200.7	90.00	96.00	6892.0	743.2	833.8	945.5	2408.3	NUDGE 2°/100'
8600.7	90.00	96.00	6892.0	701.3	1231.6	1330.9	2808.3	HOLD
8959.7	90.00	88.82	6892.0	686.3	1590.0	1681.8	3167.2	TURN 2°/100'
11797.8	90.00	88.82	6892.0	744.7	4427.5	4489.7	6005.4	TD at 11797.8' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
JESSER 3E-10-7N LP	6892.0	761.0	-55.2	1368480.31	3140012.39	40° 20' 37.648 N	104° 59' 51.702 W	Point
- plan hits target center								
JESSER 3E-10-7N PBHL	6892.0	744.7	4427.5	1368489.35	3144495.13	40° 20' 37.482 N	104° 58' 53.807 W	Point
JESSER								
- plan hits target center								

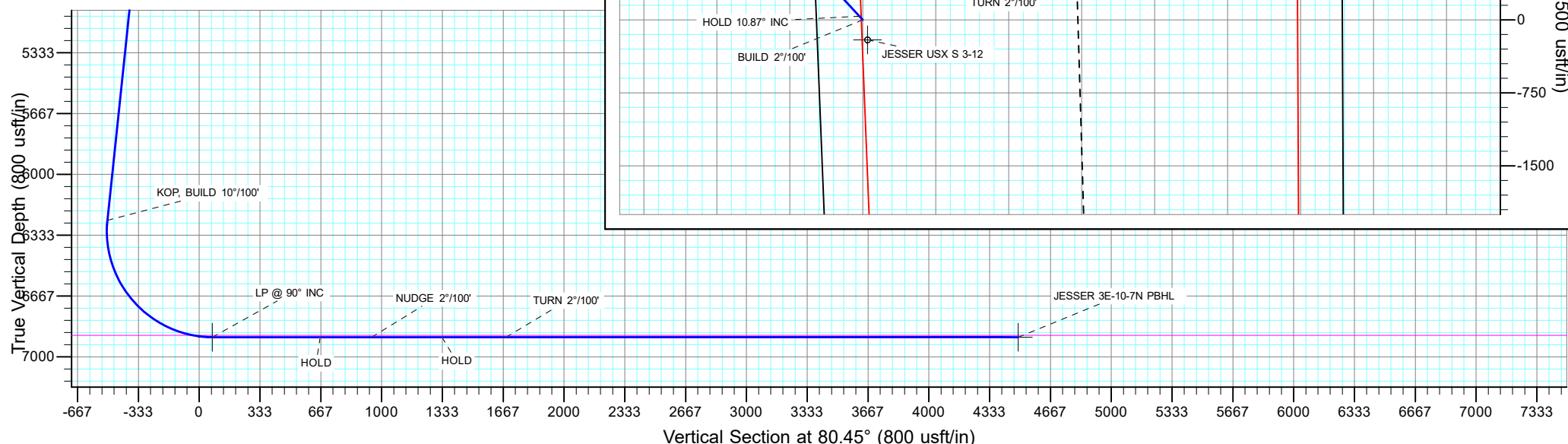
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3489.0	3524.2	PARKMAN
4026.0	4071.0	SUSSEX
4520.0	4574.0	SHANNON
6882.0	7203.5	NIORARA A

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:  
2314' FSL, 476' FWL  
Sec 3-T4N-R68W  
LP:  
1980' FNL, 460' FWL  
Sec 3-T4N-R68W  
BHL:  
1980' FNL, 460' FEL  
Sec 3-T4N-R68W



## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-7N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5137.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5137.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-7N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL 1		

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

Site		Sec 3-T4N-R68W			
Site Position:		Northing:	1,365,399.13 usft	Latitude:	40° 20' 7.217 N
From:	Lat/Long	Easting:	3,139,700.88 usft	Longitude:	104° 59' 55.950 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence:	0.32 °

Well	JESSER 3E-10-7N					
Well Position	+N/-S	2,318.4 usft	Northing:	1,367,719.62 usft	Latitude:	40° 20' 30.127 N
	+E/-W	384.1 usft	Easting:	3,140,071.89 usft	Longitude:	104° 59' 50.989 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,112.0 usft

<b>Wellbore</b>	ORIGINAL WELLBORE				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	5/1/2017	8.34	66.77	52,349.64203920

<b>Design</b>	PROPOSAL 1				
<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	80.45	

<b>Plan Survey Tool Program</b>	<b>Date</b>	5/25/2017			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.0	11,797.1	PROPOSAL 1 (ORIGINAL WELL	MWD OWSG	
			OWSG MWD - Standard		

## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-7N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5137.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5137.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-7N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL 1		

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,743.5	10.87	317.18	1,740.2	37.7	-34.9	2.00	2.00	0.00	317.18	
6,337.3	10.87	317.18	6,251.6	673.2	-623.7	0.00	0.00	0.00	0.00	
7,311.2	90.00	90.21	6,892.0	761.0	-55.2	10.00	8.12	13.66	132.51	JESSER 3E-10-7N LF
7,911.2	90.00	90.21	6,892.0	758.8	544.8	0.00	0.00	0.00	0.00	
8,200.7	90.00	96.00	6,892.0	743.2	833.8	2.00	0.00	2.00	90.00	
8,600.7	90.00	96.00	6,892.0	701.3	1,231.6	0.00	0.00	0.00	0.00	
8,959.7	90.00	88.82	6,892.0	686.3	1,590.0	2.00	0.00	-2.00	-90.00	JESSER 3E-10-7N PI
11,797.8	90.00	88.82	6,892.0	744.7	4,427.5	0.00	0.00	0.00	0.00	JESSER 3E-10-7N PI

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-7N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5137.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5137.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-7N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>BUILD 2°/100'</b>									
1,300.0	2.00	317.18	1,300.0	1.3	-1.2	-1.0	2.00	2.00	0.00
1,400.0	4.00	317.18	1,399.8	5.1	-4.7	-3.8	2.00	2.00	0.00
1,500.0	6.00	317.18	1,499.5	11.5	-10.7	-8.6	2.00	2.00	0.00
1,600.0	8.00	317.18	1,598.7	20.5	-18.9	-15.3	2.00	2.00	0.00
1,700.0	10.00	317.18	1,697.5	31.9	-29.6	-23.9	2.00	2.00	0.00
1,743.5	10.87	317.18	1,740.2	37.7	-34.9	-28.2	2.00	2.00	0.00
<b>HOLD 10.87° INC</b>									
1,800.0	10.87	317.18	1,795.7	45.5	-42.2	-34.0	0.00	0.00	0.00
1,900.0	10.87	317.18	1,893.9	59.4	-55.0	-44.4	0.00	0.00	0.00
2,000.0	10.87	317.18	1,992.1	73.2	-67.8	-54.7	0.00	0.00	0.00
2,100.0	10.87	317.18	2,090.3	87.0	-80.6	-65.1	0.00	0.00	0.00
2,200.0	10.87	317.18	2,188.6	100.9	-93.4	-75.4	0.00	0.00	0.00
2,300.0	10.87	317.18	2,286.8	114.7	-106.3	-85.8	0.00	0.00	0.00
2,400.0	10.87	317.18	2,385.0	128.5	-119.1	-96.1	0.00	0.00	0.00
2,500.0	10.87	317.18	2,483.2	142.4	-131.9	-106.5	0.00	0.00	0.00
2,600.0	10.87	317.18	2,581.4	156.2	-144.7	-116.8	0.00	0.00	0.00
2,700.0	10.87	317.18	2,679.6	170.0	-157.5	-127.1	0.00	0.00	0.00
2,800.0	10.87	317.18	2,777.8	183.9	-170.3	-137.5	0.00	0.00	0.00
2,900.0	10.87	317.18	2,876.0	197.7	-183.2	-147.8	0.00	0.00	0.00
3,000.0	10.87	317.18	2,974.2	211.5	-196.0	-158.2	0.00	0.00	0.00
3,100.0	10.87	317.18	3,072.4	225.4	-208.8	-168.5	0.00	0.00	0.00
3,200.0	10.87	317.18	3,170.6	239.2	-221.6	-178.9	0.00	0.00	0.00
3,300.0	10.87	317.18	3,268.8	253.0	-234.4	-189.2	0.00	0.00	0.00
3,400.0	10.87	317.18	3,367.0	266.9	-247.2	-199.6	0.00	0.00	0.00
3,500.0	10.87	317.18	3,465.2	280.7	-260.1	-209.9	0.00	0.00	0.00
3,524.2	10.87	317.18	3,489.0	284.0	-263.2	-212.4	0.00	0.00	0.00
<b>PARKMAN</b>									
3,600.0	10.87	317.18	3,563.4	294.5	-272.9	-220.2	0.00	0.00	0.00
3,700.0	10.87	317.18	3,661.6	308.4	-285.7	-230.6	0.00	0.00	0.00
3,800.0	10.87	317.18	3,759.8	322.2	-298.5	-240.9	0.00	0.00	0.00
3,900.0	10.87	317.18	3,858.1	336.0	-311.3	-251.3	0.00	0.00	0.00
4,000.0	10.87	317.18	3,956.3	349.9	-324.1	-261.6	0.00	0.00	0.00
4,071.0	10.87	317.18	4,026.0	359.7	-333.2	-269.0	0.00	0.00	0.00
<b>SUSSEX</b>									
4,100.0	10.87	317.18	4,054.5	363.7	-337.0	-272.0	0.00	0.00	0.00
4,200.0	10.87	317.18	4,152.7	377.5	-349.8	-282.3	0.00	0.00	0.00
4,300.0	10.87	317.18	4,250.9	391.4	-362.6	-292.7	0.00	0.00	0.00
4,400.0	10.87	317.18	4,349.1	405.2	-375.4	-303.0	0.00	0.00	0.00
4,500.0	10.87	317.18	4,447.3	419.0	-388.2	-313.4	0.00	0.00	0.00
4,574.0	10.87	317.18	4,520.0	429.3	-397.7	-321.0	0.00	0.00	0.00

# Planning Report

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<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5137.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5137.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-7N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
<b>SHANNON</b>									
4,600.0	10.87	317.18	4,545.5	432.9	-401.0	-323.7	0.00	0.00	0.00
4,700.0	10.87	317.18	4,643.7	446.7	-413.9	-334.0	0.00	0.00	0.00
4,800.0	10.87	317.18	4,741.9	460.5	-426.7	-344.4	0.00	0.00	0.00
4,900.0	10.87	317.18	4,840.1	474.4	-439.5	-354.7	0.00	0.00	0.00
5,000.0	10.87	317.18	4,938.3	488.2	-452.3	-365.1	0.00	0.00	0.00
5,100.0	10.87	317.18	5,036.5	502.0	-465.1	-375.4	0.00	0.00	0.00
5,200.0	10.87	317.18	5,134.7	515.9	-477.9	-385.8	0.00	0.00	0.00
5,300.0	10.87	317.18	5,232.9	529.7	-490.8	-396.1	0.00	0.00	0.00
5,400.0	10.87	317.18	5,331.1	543.5	-503.6	-406.5	0.00	0.00	0.00
5,500.0	10.87	317.18	5,429.3	557.4	-516.4	-416.8	0.00	0.00	0.00
5,600.0	10.87	317.18	5,527.5	571.2	-529.2	-427.1	0.00	0.00	0.00
5,700.0	10.87	317.18	5,625.8	585.0	-542.0	-437.5	0.00	0.00	0.00
5,800.0	10.87	317.18	5,724.0	598.9	-554.8	-447.8	0.00	0.00	0.00
5,900.0	10.87	317.18	5,822.2	612.7	-567.7	-458.2	0.00	0.00	0.00
6,000.0	10.87	317.18	5,920.4	626.5	-580.5	-468.5	0.00	0.00	0.00
6,100.0	10.87	317.18	6,018.6	640.4	-593.3	-478.9	0.00	0.00	0.00
6,200.0	10.87	317.18	6,116.8	654.2	-606.1	-489.2	0.00	0.00	0.00
6,300.0	10.87	317.18	6,215.0	668.0	-618.9	-499.6	0.00	0.00	0.00
6,337.3	10.87	317.18	6,251.6	673.2	-623.7	-503.4	0.00	0.00	0.00
<b>KOP, BUILD 10°/100'</b>									
6,350.0	10.05	322.56	6,264.1	674.9	-625.2	-504.6	10.00	-6.42	42.29
6,400.0	8.07	352.20	6,313.5	681.9	-628.3	-506.5	10.00	-3.97	59.27
6,450.0	8.88	26.21	6,363.0	688.8	-627.1	-504.2	10.00	1.62	68.02
6,500.0	11.92	48.54	6,412.2	695.7	-621.5	-497.5	10.00	6.09	44.67
6,550.0	15.98	60.85	6,460.7	702.5	-611.6	-486.6	10.00	8.10	24.60
6,600.0	20.44	68.09	6,508.2	709.1	-597.5	-471.6	10.00	8.94	14.48
6,650.0	25.11	72.78	6,554.3	715.5	-579.3	-452.6	10.00	9.32	9.38
6,700.0	29.87	76.06	6,598.6	721.7	-557.0	-429.6	10.00	9.53	6.57
6,750.0	34.70	78.51	6,640.9	727.5	-531.0	-403.0	10.00	9.65	4.90
6,800.0	39.56	80.43	6,680.7	733.0	-501.3	-372.8	10.00	9.73	3.83
6,850.0	44.45	81.98	6,717.9	738.1	-468.3	-339.4	10.00	9.78	3.11
6,900.0	49.36	83.29	6,752.0	742.7	-432.1	-302.9	10.00	9.82	2.61
6,950.0	54.28	84.42	6,782.9	746.9	-393.0	-263.7	10.00	9.84	2.25
7,000.0	59.21	85.41	6,810.3	750.6	-351.4	-222.0	10.00	9.86	1.99
7,050.0	64.15	86.31	6,834.1	753.8	-307.5	-178.2	10.00	9.87	1.80
7,100.0	69.09	87.14	6,853.9	756.4	-261.7	-132.6	10.00	9.88	1.65
7,150.0	74.04	87.91	6,869.7	758.5	-214.3	-85.5	10.00	9.89	1.55
7,200.0	78.99	88.64	6,881.3	759.9	-165.7	-37.4	10.00	9.90	1.47
7,203.5	79.33	88.69	6,882.0	760.0	-162.3	-34.0	10.00	9.90	1.44
<b>NIOBRARA A</b>									
7,250.0	83.94	89.36	6,888.8	760.8	-116.3	11.5	10.00	9.90	1.42
7,300.0	88.89	90.05	6,891.9	761.0	-66.4	60.7	10.00	9.90	1.40
7,311.2	90.00	90.21	6,892.0	761.0	-55.2	71.8	10.00	9.90	1.39
<b>LP @ 90° INC</b>									
7,400.0	90.00	90.21	6,892.0	760.7	33.6	159.3	0.00	0.00	0.00
7,500.0	90.00	90.21	6,892.0	760.3	133.6	257.9	0.00	0.00	0.00
7,600.0	90.00	90.21	6,892.0	760.0	233.6	356.4	0.00	0.00	0.00
7,700.0	90.00	90.21	6,892.0	759.6	333.6	455.0	0.00	0.00	0.00
7,800.0	90.00	90.21	6,892.0	759.2	433.6	553.5	0.00	0.00	0.00
7,900.0	90.00	90.21	6,892.0	758.9	533.6	652.1	0.00	0.00	0.00
7,911.2	90.00	90.21	6,892.0	758.8	544.8	663.1	0.00	0.00	0.00
<b>HOLD</b>									

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-7N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5137.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5137.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-7N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
8,000.0	90.00	91.99	6,892.0	757.1	633.6	750.4	2.00	0.00	2.00
8,100.0	90.00	93.99	6,892.0	751.9	733.4	848.0	2.00	0.00	2.00
8,200.7	90.00	96.00	6,892.0	743.2	833.8	945.5	2.00	0.00	2.00
NUDGE 2°/100'									
8,300.0	90.00	96.00	6,892.0	732.8	932.5	1,041.1	0.00	0.00	0.00
8,400.0	90.00	96.00	6,892.0	722.3	1,032.0	1,137.5	0.00	0.00	0.00
8,500.0	90.00	96.00	6,892.0	711.9	1,131.4	1,233.8	0.00	0.00	0.00
8,600.7	90.00	96.00	6,892.0	701.3	1,231.6	1,330.9	0.00	0.00	0.00
HOLD									
8,700.0	90.00	94.01	6,892.0	692.7	1,330.5	1,426.9	2.00	0.00	-2.00
8,800.0	90.00	92.01	6,892.0	687.4	1,430.3	1,524.5	2.00	0.00	-2.00
8,900.0	90.00	90.01	6,892.0	685.6	1,530.3	1,622.8	2.00	0.00	-2.00
8,959.7	90.00	88.82	6,892.0	686.3	1,590.0	1,681.8	2.00	0.00	-2.00
TURN 2°/100'									
9,000.0	90.00	88.82	6,892.0	687.1	1,630.3	1,721.7	0.00	0.00	0.00
9,100.0	90.00	88.82	6,892.0	689.1	1,730.3	1,820.6	0.00	0.00	0.00
9,200.0	90.00	88.82	6,892.0	691.2	1,830.3	1,919.5	0.00	0.00	0.00
9,300.0	90.00	88.82	6,892.0	693.3	1,930.2	2,018.5	0.00	0.00	0.00
9,400.0	90.00	88.82	6,892.0	695.3	2,030.2	2,117.4	0.00	0.00	0.00
9,500.0	90.00	88.82	6,892.0	697.4	2,130.2	2,216.4	0.00	0.00	0.00
9,600.0	90.00	88.82	6,892.0	699.4	2,230.2	2,315.3	0.00	0.00	0.00
9,700.0	90.00	88.82	6,892.0	701.5	2,330.2	2,414.2	0.00	0.00	0.00
9,800.0	90.00	88.82	6,892.0	703.5	2,430.1	2,513.2	0.00	0.00	0.00
9,900.0	90.00	88.82	6,892.0	705.6	2,530.1	2,612.1	0.00	0.00	0.00
10,000.0	90.00	88.82	6,892.0	707.7	2,630.1	2,711.0	0.00	0.00	0.00
10,100.0	90.00	88.82	6,892.0	709.7	2,730.1	2,810.0	0.00	0.00	0.00
10,200.0	90.00	88.82	6,892.0	711.8	2,830.0	2,908.9	0.00	0.00	0.00
10,300.0	90.00	88.82	6,892.0	713.8	2,930.0	3,007.8	0.00	0.00	0.00
10,400.0	90.00	88.82	6,892.0	715.9	3,030.0	3,106.8	0.00	0.00	0.00
10,500.0	90.00	88.82	6,892.0	717.9	3,130.0	3,205.7	0.00	0.00	0.00
10,600.0	90.00	88.82	6,892.0	720.0	3,230.0	3,304.6	0.00	0.00	0.00
10,700.0	90.00	88.82	6,892.0	722.1	3,329.9	3,403.6	0.00	0.00	0.00
10,800.0	90.00	88.82	6,892.0	724.1	3,429.9	3,502.5	0.00	0.00	0.00
10,900.0	90.00	88.82	6,892.0	726.2	3,529.9	3,601.4	0.00	0.00	0.00
11,000.0	90.00	88.82	6,892.0	728.2	3,629.9	3,700.4	0.00	0.00	0.00
11,100.0	90.00	88.82	6,892.0	730.3	3,729.9	3,799.3	0.00	0.00	0.00
11,200.0	90.00	88.82	6,892.0	732.4	3,829.8	3,898.3	0.00	0.00	0.00
11,300.0	90.00	88.82	6,892.0	734.4	3,929.8	3,997.2	0.00	0.00	0.00
11,400.0	90.00	88.82	6,892.0	736.5	4,029.8	4,096.1	0.00	0.00	0.00
11,500.0	90.00	88.82	6,892.0	738.5	4,129.8	4,195.1	0.00	0.00	0.00
11,600.0	90.00	88.82	6,892.0	740.6	4,229.7	4,294.0	0.00	0.00	0.00
11,700.0	90.00	88.82	6,892.0	742.6	4,329.7	4,392.9	0.00	0.00	0.00
11,797.8	90.00	88.82	6,892.0	744.7	4,427.5	4,489.7	0.00	0.00	0.00
TD at 11797.8' MD									

## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-7N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5137.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5137.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-7N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)		
JESSER 3E-10-7N LP	0.00	0.00	6,892.0	761.0	-55.2	1,368,480.31	3,140,012.39	40° 20' 37.648 N	104° 59' 51.702 W
- plan hits target center									
- Point									
JESSER 3E-10-7N PBH	0.00	0.00	6,892.0	744.7	4,427.5	1,368,489.35	3,144,495.13	40° 20' 37.482 N	104° 58' 53.807 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth					
(usft)	(usft)	Name	Lithology	Dip	Dip Direction	
				(°)	(°)	
3,524.2	3,489.0	PARKMAN				
4,071.0	4,026.0	SUSSEX				
4,574.0	4,520.0	SHANNON				
7,203.5	6,882.0	NIOBRARA A				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
		(usft)	(usft)		
1,200.0	1,200.0	0.0	0.0	BUILD 2°/100'	
1,743.5	1,740.2	37.7	-34.9	HOLD 10.87° INC	
6,337.3	6,251.6	673.2	-623.7	KOP, BUILD 10°/100'	
7,311.2	6,892.0	761.0	-55.2	LP @ 90° INC	
7,911.2	6,892.0	758.8	544.8	HOLD	
8,200.7	6,892.0	743.2	833.8	NUDGE 2°/100'	
8,600.7	6,892.0	701.3	1,231.6	HOLD	
8,959.7	6,892.0	686.3	1,590.0	TURN 2°/100'	
11,797.8	6,892.0	744.7	4,427.5	TD at 11797.8' MD	