

# **EXTRACTION OIL & GAS**

**Weld County**

**Sec 3-T4N-R68W**

**JESSER 3E-10-11N**

**ORIGINAL WELLBORE**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

**25 May, 2017**



WELL DETAILS: JESSER 3E-10-11N

+N/-S	+E/-W	Northing	Easting	5111.0	Latitude	Longitude	Slot
0.0	0.0	1367721.17	3140151.88	40° 20' 30.138 N	104° 59' 49.956 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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	550.2	7.00	244.64	549.3	-9.2	-19.3	2.00	244.64	-18.7	
4	6300.2	7.00	244.64	6256.4	-309.5	-652.8	0.00	0.00	-631.5	JESSE
5	7263.8	90.00	89.34	6892.0	-335.5	-83.1	10.00	-155.14	-61.3	
6	8263.8	90.00	89.34	6892.0	-323.9	916.9	0.00	0.00	935.9	
7	8480.6	90.00	85.00	6892.0	-313.2	1133.4	2.00	-90.00	1151.2	
8	8580.6	90.00	85.00	6892.0	-304.5	1233.0	0.00	0.00	1250.1	
9	8820.9	90.00	89.81	6892.0	-293.6	1473.0	2.00	90.00	1488.9	
10	11737.8	90.00	89.81	6892.0	-283.8	4389.8	0.00	0.00	4399.0	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0	BUILD 2°/100'
550.2	7.00	244.64	549.3	-9.2	-19.3	-18.7	21.4	HOLD 7° INC
6300.2	7.00	244.64	6256.4	-309.5	-652.8	-631.5	722.5	KOP, BUILD 10°/100'
7263.8	90.00	89.34	6892.0	-335.5	-83.1	-61.3	1304.1	LP @ 90° INC
8263.8	90.00	89.34	6892.0	-323.9	916.9	935.9	2304.1	HOLD
8480.6	90.00	85.00	6892.0	-313.2	1133.4	1151.2	2520.9	NUDGE 2°/100'
8580.6	90.00	85.00	6892.0	-304.5	1233.0	1250.1	2620.9	HOLD
8820.9	90.00	89.81	6892.0	-293.6	1473.0	1488.9	2861.2	89.81° AZM HOLD
11737.8	90.00	89.81	6892.0	-283.8	4389.8	4399.0	5778.0	TD at 11737.8' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
JESSER 3E-10-11N LP	6892.0	-335.5	-83.1	1367385.19	3140070.72	40° 20' 26.822 N	104° 59' 51.029 W	Point
- plan hits target center								
JESSER 3E-10-11N PBHL	6892.0	-283.8	4389.8	1367462.31	3144543.22	40° 20' 27.330 N	104° 58' 53.263 W	Point
JESSER								
- plan hits target center								

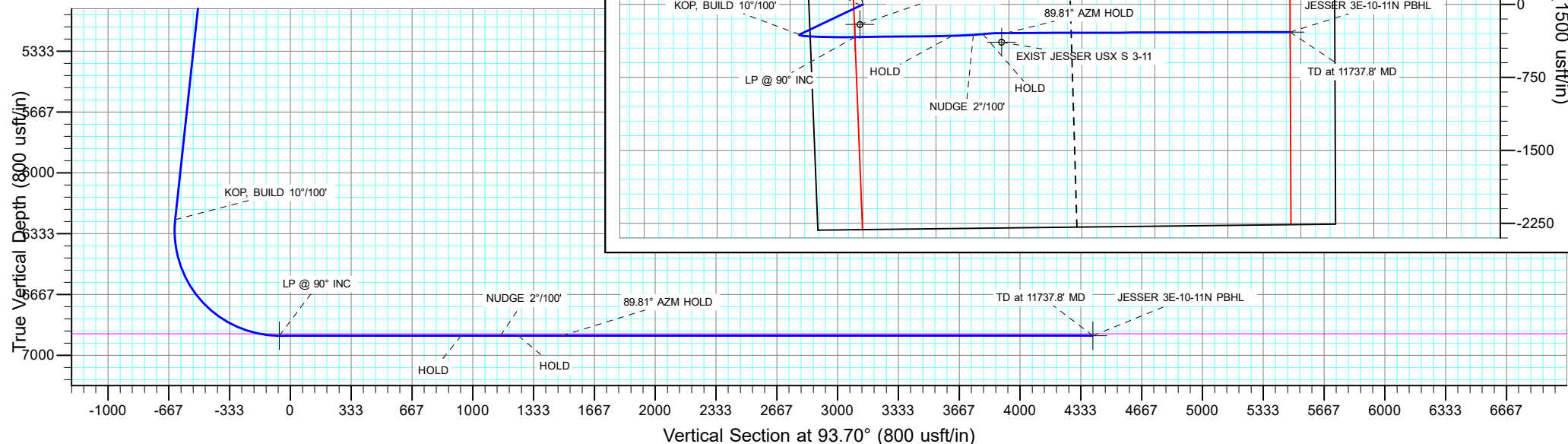
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3489.0	3512.0	PARKMAN
4026.0	4053.0	SUSSEX
4520.0	4550.7	SHANNON
6882.0	7156.5	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, 556' FWL  
Sec 3-T4N-R68W  
LP:  
1980' FSL, 460' FWL  
Sec 3-T4N-R68W  
BHL:  
1980' FSL, 460' FEL  
Sec 3-T4N-R68W



## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-11N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5136.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5136.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-11N	<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-10-11N					
Well Position	+N/-S	2,319.4 usft	Northing:	1,367,721.17 usft	Latitude:	40° 20' 30.138 N
	+E/-W	464.1 usft	Easting:	3,140,151.88 usft	Longitude:	104° 59' 49.956 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,111.0 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	52,349.68234061

<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	93.70	

<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	11,737.8	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-10-11N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5136.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5136.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-11N	<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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
550.2	7.00	244.64	549.3	-9.2	-19.3	2.00	2.00	0.00	244.64	
6,300.2	7.00	244.64	6,256.4	-309.5	-652.8	0.00	0.00	0.00	0.00	
7,263.8	90.00	89.34	6,892.0	-335.5	-83.1	10.00	8.61	-16.12	-155.14	JESSER 3E-10-11N L
8,263.8	90.00	89.34	6,892.0	-323.9	916.9	0.00	0.00	0.00	0.00	
8,480.6	90.00	85.00	6,892.0	-313.2	1,133.4	2.00	0.00	-2.00	-90.00	
8,580.6	90.00	85.00	6,892.0	-304.5	1,233.0	0.00	0.00	0.00	0.00	
8,820.9	90.00	89.81	6,892.0	-293.6	1,473.0	2.00	0.00	2.00	90.00	JESSER 3E-10-11N F
11,737.8	90.00	89.81	6,892.0	-283.8	4,389.8	0.00	0.00	0.00	0.00	JESSER 3E-10-11N F

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-11N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5136.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5136.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-11N	<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
BUILD 2°/100'									
300.0	2.00	244.64	300.0	-0.7	-1.6	-1.5	2.00	2.00	0.00
400.0	4.00	244.64	399.8	-3.0	-6.3	-6.1	2.00	2.00	0.00
500.0	6.00	244.64	499.5	-6.7	-14.2	-13.7	2.00	2.00	0.00
550.2	7.00	244.64	549.3	-9.2	-19.3	-18.7	2.00	2.00	0.00
HOLD 7° INC									
600.0	7.00	244.64	598.8	-11.8	-24.8	-24.0	0.00	0.00	0.00
700.0	7.00	244.64	698.0	-17.0	-35.8	-34.7	0.00	0.00	0.00
800.0	7.00	244.64	797.3	-22.2	-46.8	-45.3	0.00	0.00	0.00
900.0	7.00	244.64	896.5	-27.4	-57.9	-56.0	0.00	0.00	0.00
1,000.0	7.00	244.64	995.8	-32.6	-68.9	-66.6	0.00	0.00	0.00
1,100.0	7.00	244.64	1,095.0	-37.9	-79.9	-77.3	0.00	0.00	0.00
1,200.0	7.00	244.64	1,194.3	-43.1	-90.9	-87.9	0.00	0.00	0.00
1,300.0	7.00	244.64	1,293.5	-48.3	-101.9	-98.6	0.00	0.00	0.00
1,400.0	7.00	244.64	1,392.8	-53.5	-112.9	-109.3	0.00	0.00	0.00
1,500.0	7.00	244.64	1,492.0	-58.8	-124.0	-119.9	0.00	0.00	0.00
1,600.0	7.00	244.64	1,591.3	-64.0	-135.0	-130.6	0.00	0.00	0.00
1,700.0	7.00	244.64	1,690.5	-69.2	-146.0	-141.2	0.00	0.00	0.00
1,800.0	7.00	244.64	1,789.8	-74.4	-157.0	-151.9	0.00	0.00	0.00
1,900.0	7.00	244.64	1,889.1	-79.7	-168.0	-162.5	0.00	0.00	0.00
2,000.0	7.00	244.64	1,988.3	-84.9	-179.1	-173.2	0.00	0.00	0.00
2,100.0	7.00	244.64	2,087.6	-90.1	-190.1	-183.9	0.00	0.00	0.00
2,200.0	7.00	244.64	2,186.8	-95.3	-201.1	-194.5	0.00	0.00	0.00
2,300.0	7.00	244.64	2,286.1	-100.5	-212.1	-205.2	0.00	0.00	0.00
2,400.0	7.00	244.64	2,385.3	-105.8	-223.1	-215.8	0.00	0.00	0.00
2,500.0	7.00	244.64	2,484.6	-111.0	-234.1	-226.5	0.00	0.00	0.00
2,600.0	7.00	244.64	2,583.8	-116.2	-245.2	-237.2	0.00	0.00	0.00
2,700.0	7.00	244.64	2,683.1	-121.4	-256.2	-247.8	0.00	0.00	0.00
2,800.0	7.00	244.64	2,782.3	-126.7	-267.2	-258.5	0.00	0.00	0.00
2,900.0	7.00	244.64	2,881.6	-131.9	-278.2	-269.1	0.00	0.00	0.00
3,000.0	7.00	244.64	2,980.8	-137.1	-289.2	-279.8	0.00	0.00	0.00
3,100.0	7.00	244.64	3,080.1	-142.3	-300.2	-290.4	0.00	0.00	0.00
3,200.0	7.00	244.64	3,179.4	-147.6	-311.3	-301.1	0.00	0.00	0.00
3,300.0	7.00	244.64	3,278.6	-152.8	-322.3	-311.8	0.00	0.00	0.00
3,400.0	7.00	244.64	3,377.9	-158.0	-333.3	-322.4	0.00	0.00	0.00
3,500.0	7.00	244.64	3,477.1	-163.2	-344.3	-333.1	0.00	0.00	0.00
3,512.0	7.00	244.64	3,489.0	-163.8	-345.6	-334.4	0.00	0.00	0.00
PARKMAN									
3,600.0	7.00	244.64	3,576.4	-168.4	-355.3	-343.7	0.00	0.00	0.00
3,700.0	7.00	244.64	3,675.6	-173.7	-366.4	-354.4	0.00	0.00	0.00
3,800.0	7.00	244.64	3,774.9	-178.9	-377.4	-365.0	0.00	0.00	0.00
3,900.0	7.00	244.64	3,874.1	-184.1	-388.4	-375.7	0.00	0.00	0.00
4,000.0	7.00	244.64	3,973.4	-189.3	-399.4	-386.4	0.00	0.00	0.00
4,053.0	7.00	244.64	4,026.0	-192.1	-405.2	-392.0	0.00	0.00	0.00
SUSSEX									
4,100.0	7.00	244.64	4,072.6	-194.6	-410.4	-397.0	0.00	0.00	0.00
4,200.0	7.00	244.64	4,171.9	-199.8	-421.4	-407.7	0.00	0.00	0.00
4,300.0	7.00	244.64	4,271.1	-205.0	-432.5	-418.3	0.00	0.00	0.00
4,400.0	7.00	244.64	4,370.4	-210.2	-443.5	-429.0	0.00	0.00	0.00
4,500.0	7.00	244.64	4,469.7	-215.5	-454.5	-439.7	0.00	0.00	0.00
4,550.7	7.00	244.64	4,520.0	-218.1	-460.1	-445.1	0.00	0.00	0.00

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-11N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5136.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5136.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-11N	<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	7.00	244.64	4,568.9	-220.7	-465.5	-450.3	0.00	0.00	0.00
4,700.0	7.00	244.64	4,668.2	-225.9	-476.5	-461.0	0.00	0.00	0.00
4,800.0	7.00	244.64	4,767.4	-231.1	-487.6	-471.6	0.00	0.00	0.00
4,900.0	7.00	244.64	4,866.7	-236.3	-498.6	-482.3	0.00	0.00	0.00
5,000.0	7.00	244.64	4,965.9	-241.6	-509.6	-492.9	0.00	0.00	0.00
5,100.0	7.00	244.64	5,065.2	-246.8	-520.6	-503.6	0.00	0.00	0.00
5,200.0	7.00	244.64	5,164.4	-252.0	-531.6	-514.3	0.00	0.00	0.00
5,300.0	7.00	244.64	5,263.7	-257.2	-542.6	-524.9	0.00	0.00	0.00
5,400.0	7.00	244.64	5,362.9	-262.5	-553.7	-535.6	0.00	0.00	0.00
5,500.0	7.00	244.64	5,462.2	-267.7	-564.7	-546.2	0.00	0.00	0.00
5,600.0	7.00	244.64	5,561.5	-272.9	-575.7	-556.9	0.00	0.00	0.00
5,700.0	7.00	244.64	5,660.7	-278.1	-586.7	-567.5	0.00	0.00	0.00
5,800.0	7.00	244.64	5,760.0	-283.3	-597.7	-578.2	0.00	0.00	0.00
5,900.0	7.00	244.64	5,859.2	-288.6	-608.7	-588.9	0.00	0.00	0.00
6,000.0	7.00	244.64	5,958.5	-293.8	-619.8	-599.5	0.00	0.00	0.00
6,100.0	7.00	244.64	6,057.7	-299.0	-630.8	-610.2	0.00	0.00	0.00
6,200.0	7.00	244.64	6,157.0	-304.2	-641.8	-620.8	0.00	0.00	0.00
6,300.2	7.00	244.64	6,256.4	-309.5	-652.8	-631.5	0.00	0.00	0.00
<b>KOP, BUILD 10°/100'</b>									
6,350.0	3.25	204.48	6,306.0	-312.1	-656.2	-634.7	10.00	-7.54	-80.61
6,400.0	4.66	128.34	6,355.9	-314.6	-655.2	-633.5	10.00	2.83	-152.27
6,450.0	9.10	108.02	6,405.6	-317.1	-649.8	-628.0	10.00	8.88	-40.65
6,500.0	13.93	101.28	6,454.6	-319.5	-640.1	-618.2	10.00	9.65	-13.47
6,550.0	18.84	97.99	6,502.5	-321.8	-626.2	-604.2	10.00	9.83	-6.59
6,600.0	23.79	96.02	6,549.1	-324.0	-608.2	-586.0	10.00	9.90	-3.93
6,650.0	28.76	94.70	6,593.9	-326.0	-586.2	-563.9	10.00	9.93	-2.64
6,700.0	33.73	93.75	6,636.6	-327.9	-560.3	-538.0	10.00	9.95	-1.92
6,750.0	38.72	93.01	6,677.0	-329.6	-530.8	-508.4	10.00	9.96	-1.47
6,800.0	43.70	92.42	6,714.6	-331.2	-497.9	-475.5	10.00	9.97	-1.18
6,850.0	48.69	91.92	6,749.2	-332.6	-461.9	-439.5	10.00	9.97	-0.99
6,900.0	53.68	91.50	6,780.5	-333.7	-422.9	-400.5	10.00	9.98	-0.85
6,950.0	58.67	91.13	6,808.3	-334.7	-381.4	-359.0	10.00	9.98	-0.74
7,000.0	63.66	90.79	6,832.4	-335.4	-337.6	-315.3	10.00	9.98	-0.67
7,050.0	68.65	90.49	6,852.6	-335.9	-291.9	-269.7	10.00	9.98	-0.61
7,100.0	73.64	90.20	6,868.8	-336.2	-244.6	-222.4	10.00	9.99	-0.57
7,150.0	78.64	89.93	6,880.8	-336.2	-196.1	-174.0	10.00	9.99	-0.54
7,156.5	79.29	89.89	6,882.0	-336.2	-189.7	-167.6	10.00	9.99	-0.53
<b>NIOBRARA A</b>									
7,200.0	83.63	89.67	6,888.5	-336.1	-146.7	-124.7	10.00	9.99	-0.52
7,250.0	88.62	89.41	6,891.8	-335.7	-96.8	-75.0	10.00	9.99	-0.52
7,263.8	90.00	89.34	6,892.0	-335.5	-83.1	-61.3	10.00	9.99	-0.51
<b>LP @ 90° INC</b>									
7,300.0	90.00	89.34	6,892.0	-335.1	-46.9	-25.1	0.00	0.00	0.00
7,400.0	90.00	89.34	6,892.0	-333.9	53.1	74.6	0.00	0.00	0.00
7,500.0	90.00	89.34	6,892.0	-332.8	153.1	174.3	0.00	0.00	0.00
7,600.0	90.00	89.34	6,892.0	-331.6	253.1	274.0	0.00	0.00	0.00
7,700.0	90.00	89.34	6,892.0	-330.5	353.1	373.7	0.00	0.00	0.00
7,800.0	90.00	89.34	6,892.0	-329.3	453.1	473.4	0.00	0.00	0.00
7,900.0	90.00	89.34	6,892.0	-328.1	553.1	573.1	0.00	0.00	0.00
8,000.0	90.00	89.34	6,892.0	-327.0	653.1	672.8	0.00	0.00	0.00
8,100.0	90.00	89.34	6,892.0	-325.8	753.1	772.5	0.00	0.00	0.00
8,200.0	90.00	89.34	6,892.0	-324.7	853.1	872.3	0.00	0.00	0.00

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-11N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5136.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5136.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-11N	<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)	
8,263.8	90.00	89.34	6,892.0	-323.9	916.9	935.9	0.00	0.00	0.00	
HOLD										
8,300.0	90.00	88.61	6,892.0	-323.3	953.1	971.9	2.00	0.00	-2.00	
8,400.0	90.00	86.61	6,892.0	-319.1	1,053.0	1,071.4	2.00	0.00	-2.00	
8,480.6	90.00	85.00	6,892.0	-313.2	1,133.4	1,151.2	2.00	0.00	-2.00	
NUDGE 2°/100'										
8,500.0	90.00	85.00	6,892.0	-311.5	1,152.7	1,170.4	0.00	0.00	0.00	
8,580.6	90.00	85.00	6,892.0	-304.5	1,233.0	1,250.1	0.00	0.00	0.00	
HOLD										
8,600.0	90.00	85.39	6,892.0	-302.9	1,252.3	1,269.2	2.00	0.00	2.00	
8,700.0	90.00	87.39	6,892.0	-296.6	1,352.1	1,368.4	2.00	0.00	2.00	
8,800.0	90.00	89.39	6,892.0	-293.8	1,452.1	1,468.0	2.00	0.00	2.00	
8,820.9	90.00	89.81	6,892.0	-293.6	1,473.0	1,488.9	2.00	0.00	2.00	
89.81° AZM HOLD										
8,900.0	90.00	89.81	6,892.0	-293.4	1,552.1	1,567.8	0.00	0.00	0.00	
9,000.0	90.00	89.81	6,892.0	-293.0	1,652.1	1,667.5	0.00	0.00	0.00	
9,100.0	90.00	89.81	6,892.0	-292.7	1,752.1	1,767.3	0.00	0.00	0.00	
9,200.0	90.00	89.81	6,892.0	-292.3	1,852.1	1,867.1	0.00	0.00	0.00	
9,300.0	90.00	89.81	6,892.0	-292.0	1,952.1	1,966.8	0.00	0.00	0.00	
9,400.0	90.00	89.81	6,892.0	-291.7	2,052.1	2,066.6	0.00	0.00	0.00	
9,500.0	90.00	89.81	6,892.0	-291.3	2,152.1	2,166.4	0.00	0.00	0.00	
9,600.0	90.00	89.81	6,892.0	-291.0	2,252.1	2,266.1	0.00	0.00	0.00	
9,700.0	90.00	89.81	6,892.0	-290.7	2,352.1	2,365.9	0.00	0.00	0.00	
9,800.0	90.00	89.81	6,892.0	-290.3	2,452.1	2,465.7	0.00	0.00	0.00	
9,900.0	90.00	89.81	6,892.0	-290.0	2,552.1	2,565.5	0.00	0.00	0.00	
10,000.0	90.00	89.81	6,892.0	-289.6	2,652.1	2,665.2	0.00	0.00	0.00	
10,100.0	90.00	89.81	6,892.0	-289.3	2,752.1	2,765.0	0.00	0.00	0.00	
10,200.0	90.00	89.81	6,892.0	-289.0	2,852.1	2,864.8	0.00	0.00	0.00	
10,300.0	90.00	89.81	6,892.0	-288.6	2,952.1	2,964.5	0.00	0.00	0.00	
10,400.0	90.00	89.81	6,892.0	-288.3	3,052.1	3,064.3	0.00	0.00	0.00	
10,500.0	90.00	89.81	6,892.0	-287.9	3,152.1	3,164.1	0.00	0.00	0.00	
10,600.0	90.00	89.81	6,892.0	-287.6	3,252.1	3,263.8	0.00	0.00	0.00	
10,700.0	90.00	89.81	6,892.0	-287.3	3,352.1	3,363.6	0.00	0.00	0.00	
10,800.0	90.00	89.81	6,892.0	-286.9	3,452.1	3,463.4	0.00	0.00	0.00	
10,900.0	90.00	89.81	6,892.0	-286.6	3,552.1	3,563.1	0.00	0.00	0.00	
11,000.0	90.00	89.81	6,892.0	-286.3	3,652.1	3,662.9	0.00	0.00	0.00	
11,100.0	90.00	89.81	6,892.0	-285.9	3,752.1	3,762.7	0.00	0.00	0.00	
11,200.0	90.00	89.81	6,892.0	-285.6	3,852.1	3,862.5	0.00	0.00	0.00	
11,300.0	90.00	89.81	6,892.0	-285.2	3,952.1	3,962.2	0.00	0.00	0.00	
11,400.0	90.00	89.81	6,892.0	-284.9	4,052.1	4,062.0	0.00	0.00	0.00	
11,500.0	90.00	89.81	6,892.0	-284.6	4,152.1	4,161.8	0.00	0.00	0.00	
11,600.0	90.00	89.81	6,892.0	-284.2	4,252.1	4,261.5	0.00	0.00	0.00	
11,700.0	90.00	89.81	6,892.0	-283.9	4,352.1	4,361.3	0.00	0.00	0.00	
11,737.8	90.00	89.81	6,892.0	-283.8	4,389.8	4,399.0	0.00	0.00	0.00	
TD at 11737.8' MD										

## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well JESSER 3E-10-11N
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 25' @ 5136.0usft
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KB 25' @ 5136.0usft
<b>Site:</b>	Sec 3-T4N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	JESSER 3E-10-11N	<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-10-11N LP	0.00	0.00	6,892.0	-335.5	-83.1	1,367,385.19	3,140,070.72	40° 20' 26.822 N	104° 59' 51.029 W
- plan hits target center									
- Point									
JESSER 3E-10-11N PBI	0.00	0.00	6,892.0	-283.8	4,389.8	1,367,462.31	3,144,543.23	40° 20' 27.330 N	104° 58' 53.263 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,512.0	3,489.0	PARKMAN				
4,053.0	4,026.0	SUSSEX				
4,550.7	4,520.0	SHANNON				
7,156.5	6,882.0	NIOBRARA A				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
200.0	200.0	0.0	0.0	BUILD 2°/100'	
550.2	549.3	-9.2	-19.3	HOLD 7° INC	
6,300.2	6,256.4	-309.5	-652.8	KOP, BUILD 10°/100'	
7,263.8	6,892.0	-335.5	-83.1	LP @ 90° INC	
8,263.8	6,892.0	-323.9	916.9	HOLD	
8,480.6	6,892.0	-313.2	1,133.4	NUDGE 2°/100'	
8,580.6	6,892.0	-304.5	1,233.0	HOLD	
8,820.9	6,892.0	-293.6	1,473.0	89.81° AZM HOLD	
11,737.8	6,892.0	-283.8	4,389.8	TD at 11737.8' MD	