

EXTRACTION OIL & GAS

Weld County

Sec 3-T4N-R68W

JESSER 3E-10-13N

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

31 August, 2017



Project: Weld County
Site: Sec 3-T4N-R68W
Well: JESSER 3E-10-13N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL 1



Azimuths to True North

Magnetic North: 8.34°

Magnetic Field

Dip Angle: 66.77°

Date: 5/1/2017

Model: IGRF2015

WELL DETAILS: JESSER 3E-10-13N

5110.00							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1367721.75	3140191.74	40° 20' 30.141 N	104° 59' 49.441 W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
3	1078.10	11.56	216.56	1074.19	-46.69	-34.63	2.00	216.56	-23.95	
4	6369.22	11.56	216.56	6257.94	-898.52	-666.34	0.00	0.00	-460.80	
5	7338.85	90.00	89.34	6892.00	-995.23	-96.45	10.00	-126.66	116.64	JESSE
6	11788.45	90.00	89.34	6892.00	-943.85	4352.84	0.00	0.00	4454.00	JESSE

ANNOTATIONS

+N/-S	+E/-W	VSec	Departure	Annotation
0.00	0.00	0.00	0.00	BUILD 2°/100'
-46.69	-34.63	-23.95	58.13	HOLD 11.56° INC
-898.52	-666.34	-460.80	1118.63	KOP, BUILD 10°/100'
-995.23	-96.45	116.64	1724.52	LP @ 90° INC, 89.34° AZM HOLD
-943.85	4352.84	4454.00	6174.11	TD at 11788.45' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
JESSER 3E-10-13N LP	6892.00	-995.23	-96.45	1366725.98	3140100.94	40° 20' 20.306 N	104° 59' 50.687 W	Point
- plan hits target center								
JESSER 3E-10-13N PBHL	6892.00	-943.85	4352.84	1366802.60	3144549.87	40° 20' 20.810 N	104° 58' 53.227 W	Point
- plan hits target center								

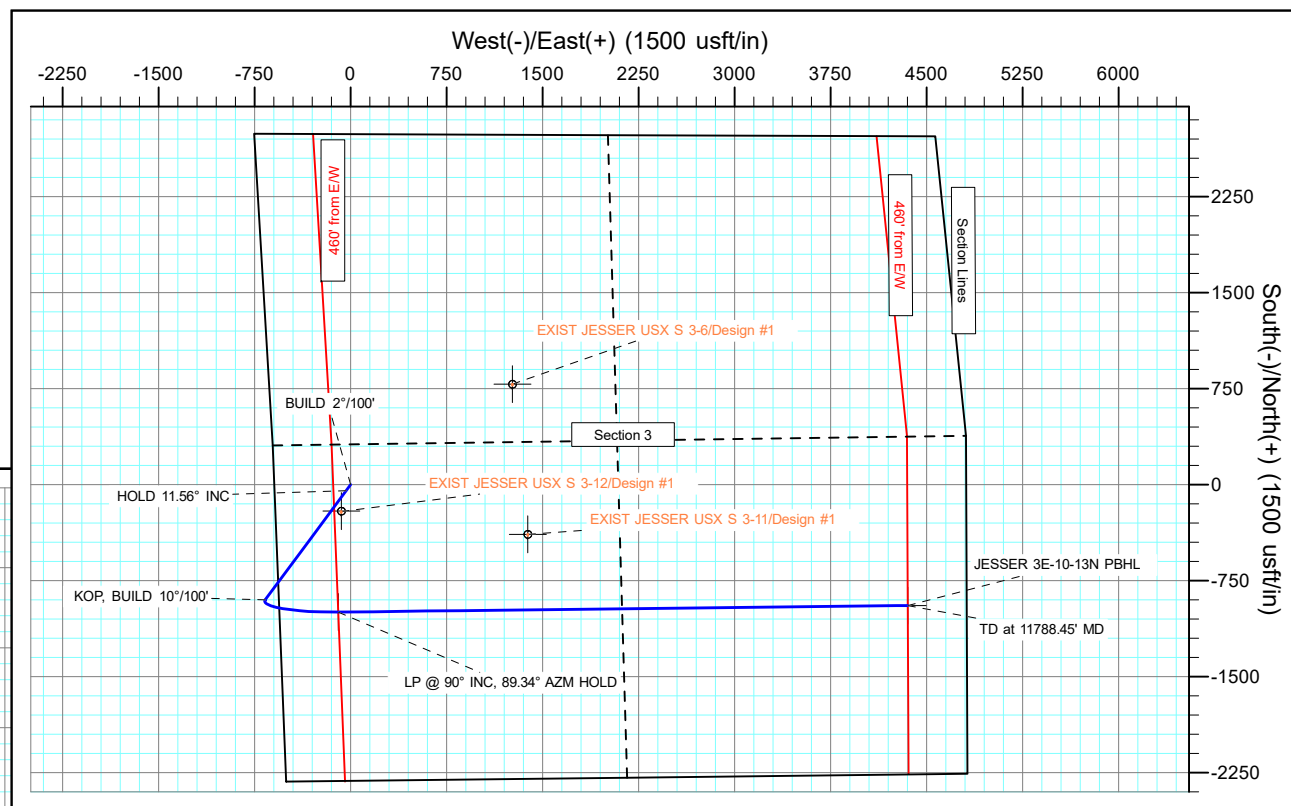
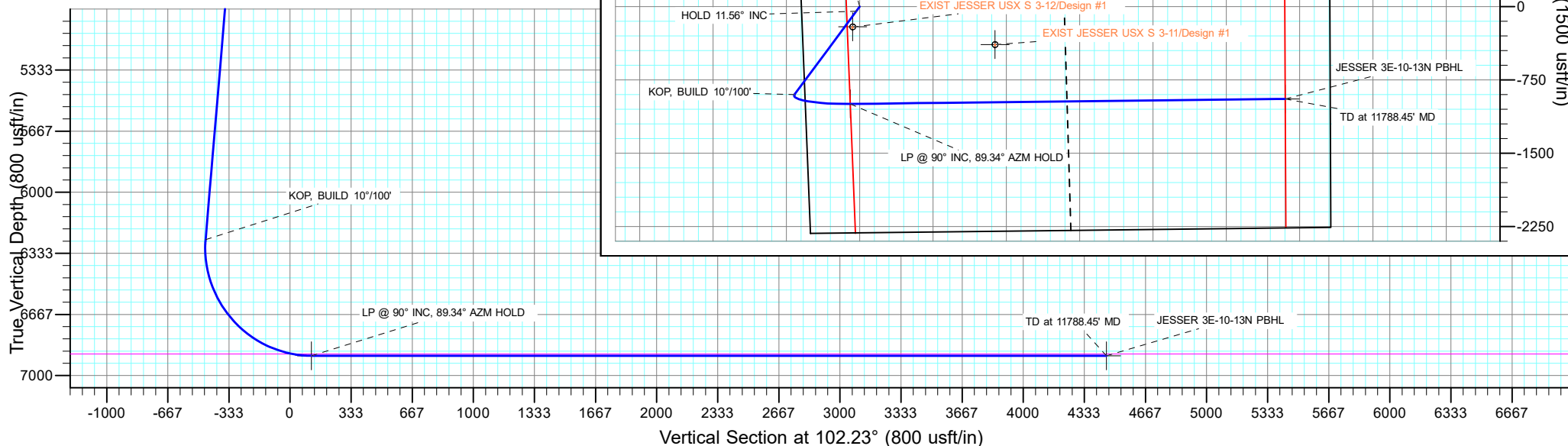
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3489.00	3542.93	PARKMAN
4026.00	4091.05	SUSSEX
4520.00	4595.29	SHANNON
6882.00	7230.94	NIOBRARA 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, 596' FWL
Sec 3-T4N-R68W
LP:
1320' FSL, 460' FWL
Sec 3-T4N-R68W
BHL:
1320' FSL, 460' FEL
Sec 3-T4N-R68W



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JESSER 3E-10-13N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5135.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5135.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-13N	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 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:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.32

Well	JESSER 3E-10-13N					
Well Position	+N/-S	2,319.81 usft	Northing:	1,367,721.75 usft	Latitude:	40° 20' 30.141 N
	+E/-W	503.98 usft	Easting:	3,140,191.74 usft	Longitude:	104° 59' 49.441 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,110.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/1/2017	8.34	66.77	52,349.70619323

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	102.23

Plan Survey Tool Program			Date	8/31/2017	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	11,788.45	PROPOSAL 1 (ORIGINAL WELL	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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,078.10	11.56	216.56	1,074.19	-46.69	-34.63	2.00	2.00	0.00	216.56	
6,369.22	11.56	216.56	6,257.94	-898.52	-666.34	0.00	0.00	0.00	0.00	
7,338.85	90.00	89.34	6,892.00	-995.23	-96.45	10.00	8.09	-13.12	-126.66	JESSER 3E-10-13N L
11,788.45	90.00	89.34	6,892.00	-943.85	4,352.85	0.00	0.00	0.00	0.00	JESSER 3E-10-13N F

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JESSER 3E-10-13N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5135.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5135.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-13N	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
BUILD 2°/100'									
600.00	2.00	216.56	599.98	-1.40	-1.04	-0.72	2.00	2.00	0.00
700.00	4.00	216.56	699.84	-5.61	-4.16	-2.87	2.00	2.00	0.00
800.00	6.00	216.56	799.45	-12.61	-9.35	-6.46	2.00	2.00	0.00
900.00	8.00	216.56	898.70	-22.39	-16.61	-11.48	2.00	2.00	0.00
1,000.00	10.00	216.56	997.47	-34.96	-25.93	-17.93	2.00	2.00	0.00
1,078.10	11.56	216.56	1,074.19	-46.69	-34.63	-23.95	2.00	2.00	0.00
HOLD 11.56° INC									
1,100.00	11.56	216.56	1,095.64	-50.22	-37.24	-25.75	0.00	0.00	0.00
1,200.00	11.56	216.56	1,193.61	-66.32	-49.18	-34.01	0.00	0.00	0.00
1,300.00	11.56	216.56	1,291.58	-82.42	-61.12	-42.27	0.00	0.00	0.00
1,400.00	11.56	216.56	1,389.55	-98.52	-73.06	-50.52	0.00	0.00	0.00
1,500.00	11.56	216.56	1,487.52	-114.61	-85.00	-58.78	0.00	0.00	0.00
1,600.00	11.56	216.56	1,585.49	-130.71	-96.94	-67.04	0.00	0.00	0.00
1,700.00	11.56	216.56	1,683.46	-146.81	-108.88	-75.29	0.00	0.00	0.00
1,800.00	11.56	216.56	1,781.44	-162.91	-120.82	-83.55	0.00	0.00	0.00
1,900.00	11.56	216.56	1,879.41	-179.01	-132.75	-91.80	0.00	0.00	0.00
2,000.00	11.56	216.56	1,977.38	-195.11	-144.69	-100.06	0.00	0.00	0.00
2,100.00	11.56	216.56	2,075.35	-211.21	-156.63	-108.32	0.00	0.00	0.00
2,200.00	11.56	216.56	2,173.32	-227.31	-168.57	-116.57	0.00	0.00	0.00
2,300.00	11.56	216.56	2,271.29	-243.41	-180.51	-124.83	0.00	0.00	0.00
2,400.00	11.56	216.56	2,369.26	-259.51	-192.45	-133.09	0.00	0.00	0.00
2,500.00	11.56	216.56	2,467.23	-275.61	-204.39	-141.34	0.00	0.00	0.00
2,600.00	11.56	216.56	2,565.20	-291.70	-216.33	-149.60	0.00	0.00	0.00
2,700.00	11.56	216.56	2,663.17	-307.80	-228.27	-157.86	0.00	0.00	0.00
2,800.00	11.56	216.56	2,761.14	-323.90	-240.21	-166.11	0.00	0.00	0.00
2,900.00	11.56	216.56	2,859.11	-340.00	-252.14	-174.37	0.00	0.00	0.00
3,000.00	11.56	216.56	2,957.09	-356.10	-264.08	-182.62	0.00	0.00	0.00
3,100.00	11.56	216.56	3,055.06	-372.20	-276.02	-190.88	0.00	0.00	0.00
3,200.00	11.56	216.56	3,153.03	-388.30	-287.96	-199.14	0.00	0.00	0.00
3,300.00	11.56	216.56	3,251.00	-404.40	-299.90	-207.39	0.00	0.00	0.00
3,400.00	11.56	216.56	3,348.97	-420.50	-311.84	-215.65	0.00	0.00	0.00
3,500.00	11.56	216.56	3,446.94	-436.60	-323.78	-223.91	0.00	0.00	0.00
3,542.93	11.56	216.56	3,489.00	-443.51	-328.90	-227.45	0.00	0.00	0.00
PARKMAN									
3,600.00	11.56	216.56	3,544.91	-452.70	-335.72	-232.16	0.00	0.00	0.00
3,700.00	11.56	216.56	3,642.88	-468.79	-347.66	-240.42	0.00	0.00	0.00
3,800.00	11.56	216.56	3,740.85	-484.89	-359.60	-248.68	0.00	0.00	0.00
3,900.00	11.56	216.56	3,838.82	-500.99	-371.54	-256.93	0.00	0.00	0.00
4,000.00	11.56	216.56	3,936.79	-517.09	-383.47	-265.19	0.00	0.00	0.00
4,091.05	11.56	216.56	4,026.00	-531.75	-394.35	-272.71	0.00	0.00	0.00
SUSSEX									
4,100.00	11.56	216.56	4,034.76	-533.19	-395.41	-273.44	0.00	0.00	0.00
4,200.00	11.56	216.56	4,132.74	-549.29	-407.35	-281.70	0.00	0.00	0.00
4,300.00	11.56	216.56	4,230.71	-565.39	-419.29	-289.96	0.00	0.00	0.00
4,400.00	11.56	216.56	4,328.68	-581.49	-431.23	-298.21	0.00	0.00	0.00
4,500.00	11.56	216.56	4,426.65	-597.59	-443.17	-306.47	0.00	0.00	0.00

Planning Report

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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5135.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5135.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-13N	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)
4,595.29	11.56	216.56	4,520.00	-612.93	-454.55	-314.34	0.00	0.00	0.00
SHANNON									
4,600.00	11.56	216.56	4,524.62	-613.69	-455.11	-314.73	0.00	0.00	0.00
4,700.00	11.56	216.56	4,622.59	-629.79	-467.05	-322.98	0.00	0.00	0.00
4,800.00	11.56	216.56	4,720.56	-645.89	-478.99	-331.24	0.00	0.00	0.00
4,900.00	11.56	216.56	4,818.53	-661.98	-490.93	-339.49	0.00	0.00	0.00
5,000.00	11.56	216.56	4,916.50	-678.08	-502.86	-347.75	0.00	0.00	0.00
5,100.00	11.56	216.56	5,014.47	-694.18	-514.80	-356.01	0.00	0.00	0.00
5,200.00	11.56	216.56	5,112.44	-710.28	-526.74	-364.26	0.00	0.00	0.00
5,300.00	11.56	216.56	5,210.41	-726.38	-538.68	-372.52	0.00	0.00	0.00
5,400.00	11.56	216.56	5,308.38	-742.48	-550.62	-380.78	0.00	0.00	0.00
5,500.00	11.56	216.56	5,406.36	-758.58	-562.56	-389.03	0.00	0.00	0.00
5,600.00	11.56	216.56	5,504.33	-774.68	-574.50	-397.29	0.00	0.00	0.00
5,700.00	11.56	216.56	5,602.30	-790.78	-586.44	-405.55	0.00	0.00	0.00
5,800.00	11.56	216.56	5,700.27	-806.88	-598.38	-413.80	0.00	0.00	0.00
5,900.00	11.56	216.56	5,798.24	-822.98	-610.32	-422.06	0.00	0.00	0.00
6,000.00	11.56	216.56	5,896.21	-839.07	-622.26	-430.31	0.00	0.00	0.00
6,100.00	11.56	216.56	5,994.18	-855.17	-634.19	-438.57	0.00	0.00	0.00
6,200.00	11.56	216.56	6,092.15	-871.27	-646.13	-446.83	0.00	0.00	0.00
6,300.00	11.56	216.56	6,190.12	-887.37	-658.07	-455.08	0.00	0.00	0.00
6,369.22	11.56	216.56	6,257.94	-898.52	-666.34	-460.80	0.00	0.00	0.00
KOP, BUILD 10°/100'									
6,400.00	10.03	202.24	6,288.18	-903.47	-669.19	-462.53	10.00	-4.98	-46.53
6,450.00	9.32	172.44	6,337.50	-911.52	-670.30	-461.92	10.00	-1.42	-59.60
6,500.00	11.08	145.67	6,386.73	-919.51	-667.06	-457.06	10.00	3.51	-53.55
6,550.00	14.42	128.64	6,435.51	-927.37	-659.48	-447.99	10.00	6.70	-34.06
6,600.00	18.52	118.44	6,483.46	-935.04	-647.63	-434.77	10.00	8.19	-20.40
6,650.00	22.97	111.94	6,530.21	-942.47	-631.59	-417.52	10.00	8.89	-12.98
6,700.00	27.60	107.50	6,575.41	-949.60	-611.48	-396.36	10.00	9.26	-8.89
6,750.00	32.33	104.25	6,618.72	-956.38	-587.46	-371.45	10.00	9.46	-6.49
6,800.00	37.12	101.77	6,659.81	-962.76	-559.72	-342.99	10.00	9.59	-4.98
6,850.00	41.96	99.78	6,698.35	-968.67	-528.45	-311.18	10.00	9.67	-3.98
6,900.00	46.83	98.13	6,734.07	-974.09	-493.91	-276.27	10.00	9.73	-3.29
6,950.00	51.71	96.73	6,766.69	-978.97	-456.35	-238.53	10.00	9.77	-2.81
7,000.00	56.61	95.50	6,795.95	-983.28	-416.05	-198.24	10.00	9.80	-2.45
7,050.00	61.52	94.41	6,821.64	-986.97	-373.34	-155.71	10.00	9.82	-2.19
7,100.00	66.44	93.41	6,843.57	-990.02	-328.52	-111.26	10.00	9.84	-1.99
7,150.00	71.37	92.49	6,861.56	-992.42	-281.95	-65.24	10.00	9.85	-1.85
7,200.00	76.30	91.61	6,875.47	-994.13	-233.97	-17.99	10.00	9.86	-1.74
7,230.94	79.35	91.09	6,882.00	-994.84	-203.74	11.71	10.00	9.86	-1.68
NIOBRARA A									
7,250.00	81.23	90.78	6,885.21	-995.15	-184.96	30.13	10.00	9.87	-1.66
7,300.00	86.17	89.96	6,890.70	-995.47	-135.28	78.75	10.00	9.87	-1.63
7,338.85	90.00	89.34	6,892.00	-995.23	-96.45	116.64	10.00	9.87	-1.61
LP @ 90° INC, 89.34° AZM HOLD									
7,400.00	90.00	89.34	6,892.00	-994.53	-35.31	176.24	0.00	0.00	0.00
7,500.00	90.00	89.34	6,892.00	-993.37	64.68	273.72	0.00	0.00	0.00
7,600.00	90.00	89.34	6,892.00	-992.22	164.68	371.20	0.00	0.00	0.00
7,700.00	90.00	89.34	6,892.00	-991.06	264.67	468.68	0.00	0.00	0.00
7,800.00	90.00	89.34	6,892.00	-989.91	364.66	566.15	0.00	0.00	0.00
7,900.00	90.00	89.34	6,892.00	-988.75	464.66	663.63	0.00	0.00	0.00
8,000.00	90.00	89.34	6,892.00	-987.60	564.65	761.11	0.00	0.00	0.00
8,100.00	90.00	89.34	6,892.00	-986.44	664.64	858.59	0.00	0.00	0.00

Planning Report

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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5135.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5135.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-13N	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)	
8,200.00	90.00	89.34	6,892.00	-985.29	764.64	956.06	0.00	0.00	0.00	
8,300.00	90.00	89.34	6,892.00	-984.13	864.63	1,053.54	0.00	0.00	0.00	
8,400.00	90.00	89.34	6,892.00	-982.98	964.62	1,151.02	0.00	0.00	0.00	
8,500.00	90.00	89.34	6,892.00	-981.83	1,064.62	1,248.50	0.00	0.00	0.00	
8,600.00	90.00	89.34	6,892.00	-980.67	1,164.61	1,345.98	0.00	0.00	0.00	
8,700.00	90.00	89.34	6,892.00	-979.52	1,264.60	1,443.45	0.00	0.00	0.00	
8,800.00	90.00	89.34	6,892.00	-978.36	1,364.60	1,540.93	0.00	0.00	0.00	
8,900.00	90.00	89.34	6,892.00	-977.21	1,464.59	1,638.41	0.00	0.00	0.00	
9,000.00	90.00	89.34	6,892.00	-976.05	1,564.58	1,735.89	0.00	0.00	0.00	
9,100.00	90.00	89.34	6,892.00	-974.90	1,664.58	1,833.36	0.00	0.00	0.00	
9,200.00	90.00	89.34	6,892.00	-973.74	1,764.57	1,930.84	0.00	0.00	0.00	
9,300.00	90.00	89.34	6,892.00	-972.59	1,864.56	2,028.32	0.00	0.00	0.00	
9,400.00	90.00	89.34	6,892.00	-971.43	1,964.56	2,125.80	0.00	0.00	0.00	
9,500.00	90.00	89.34	6,892.00	-970.28	2,064.55	2,223.27	0.00	0.00	0.00	
9,600.00	90.00	89.34	6,892.00	-969.12	2,164.54	2,320.75	0.00	0.00	0.00	
9,700.00	90.00	89.34	6,892.00	-967.97	2,264.54	2,418.23	0.00	0.00	0.00	
9,800.00	90.00	89.34	6,892.00	-966.81	2,364.53	2,515.71	0.00	0.00	0.00	
9,900.00	90.00	89.34	6,892.00	-965.66	2,464.52	2,613.19	0.00	0.00	0.00	
10,000.00	90.00	89.34	6,892.00	-964.50	2,564.52	2,710.66	0.00	0.00	0.00	
10,100.00	90.00	89.34	6,892.00	-963.35	2,664.51	2,808.14	0.00	0.00	0.00	
10,200.00	90.00	89.34	6,892.00	-962.19	2,764.50	2,905.62	0.00	0.00	0.00	
10,300.00	90.00	89.34	6,892.00	-961.04	2,864.50	3,003.10	0.00	0.00	0.00	
10,400.00	90.00	89.34	6,892.00	-959.88	2,964.49	3,100.57	0.00	0.00	0.00	
10,500.00	90.00	89.34	6,892.00	-958.73	3,064.48	3,198.05	0.00	0.00	0.00	
10,600.00	90.00	89.34	6,892.00	-957.57	3,164.48	3,295.53	0.00	0.00	0.00	
10,700.00	90.00	89.34	6,892.00	-956.42	3,264.47	3,393.01	0.00	0.00	0.00	
10,800.00	90.00	89.34	6,892.00	-955.26	3,364.46	3,490.48	0.00	0.00	0.00	
10,900.00	90.00	89.34	6,892.00	-954.11	3,464.46	3,587.96	0.00	0.00	0.00	
11,000.00	90.00	89.34	6,892.00	-952.96	3,564.45	3,685.44	0.00	0.00	0.00	
11,100.00	90.00	89.34	6,892.00	-951.80	3,664.44	3,782.92	0.00	0.00	0.00	
11,200.00	90.00	89.34	6,892.00	-950.65	3,764.44	3,880.40	0.00	0.00	0.00	
11,300.00	90.00	89.34	6,892.00	-949.49	3,864.43	3,977.87	0.00	0.00	0.00	
11,400.00	90.00	89.34	6,892.00	-948.34	3,964.42	4,075.35	0.00	0.00	0.00	
11,500.00	90.00	89.34	6,892.00	-947.18	4,064.42	4,172.83	0.00	0.00	0.00	
11,600.00	90.00	89.34	6,892.00	-946.03	4,164.41	4,270.31	0.00	0.00	0.00	
11,700.00	90.00	89.34	6,892.00	-944.87	4,264.40	4,367.78	0.00	0.00	0.00	
11,788.45	90.00	89.34	6,892.00	-943.85	4,352.85	4,454.00	0.00	0.00	0.00	
TD at 11788.45' MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
JESSER 3E-10-13N PBI	0.00	0.00	6,892.00	-943.85	4,352.85	1,366,802.60	3,144,549.87	40° 20' 20.810 N		
- hit/miss target										
- Shape										
- plan hits target center										
- Point										
JESSER 3E-10-13N LP	0.00	0.00	6,892.00	-995.23	-96.45	1,366,725.98	3,140,100.94	40° 20' 20.306 N		
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JESSER 3E-10-13N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5135.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5135.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-13N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,542.93	3,489.00	PARKMAN				
4,091.05	4,026.00	SUSSEX				
4,595.29	4,520.00	SHANNON				
7,230.94	6,882.00	NIOBRARA A				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
500.00	500.00	0.00	0.00	BUILD 2°/100'	
1,078.10	1,074.19	-46.69	-34.63	HOLD 11.56° INC	
6,369.22	6,257.94	-898.52	-666.34	KOP, BUILD 10°/100'	
7,338.85	6,892.00	-995.23	-96.45	LP @ 90° INC, 89.34° AZM HOLD	
11,788.45	6,892.00	-943.85	4,352.85	TD at 11788.45' MD	