

EXTRACTION OIL & GAS

Weld County

Sec 3-T4N-R68W

JESSER 3E-10-5N

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

31 August, 2017



Project: Weld County
Site: Sec 3-T4N-R68W
Well: JESSER 3E-10-5N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL 1



Azimuths to True North
Magnetic North: 8.34°
Magnetic Field
Strength: 52349.6nT
Dip Angle: 66.77°
Date: 5/1/2017
Model: IGRF2015

WELL DETAILS: JESSER 3E-10-5N

+N/-S	+E/-W	Northing	Easting	5113.00	Latitude	Longitude	Slot
0.00	0.00	1367718.66	3140032.03	40° 20' 30.120 N	104° 59' 51.504 W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	
3	1692.44	15.85	333.76	1682.37	97.68	-48.15	2.00	333.76	-16.15	
4	6460.47	15.85	333.76	6269.15	1265.63	-623.91	0.00	0.00	-209.23	
5	7430.34	90.00	90.21	6892.00	1421.85	-54.63	10.00	115.58	380.59	JESSE
6	11885.10	90.00	90.21	6892.00	1405.48	4400.10	0.00	0.00	4619.11	JESSE

ANNOTATIONS

+N/-S	+E/-W	Vsect	Departure	Annotation
0.00	0.00	0.00	0.00	BUILD 2°/100'
97.68	-48.15	-16.15	108.90	HOLD 15.85° INC
1265.63	-623.91	-209.23	1411.05	KOP, BUILD 10°/100'
1421.85	-54.63	380.59	2042.77	LP @ 90° INC, 90.21° AZM HOLD
1405.48	4400.10	4619.11	6497.53	TD at 11885.10' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
JESSER 3E-10-5N LP - plan hits target center	6892.00	1421.85	-54.63	1369140.17	3139969.35	40° 20' 44.171 N	104° 59' 52.210 W	Point
JESSER 3E-10-5N PBHL - plan hits target center	6892.00	1405.48	4400.10	1369149.04	3144424.10	40° 20' 44.005 N	104° 58' 54.674 W	Point

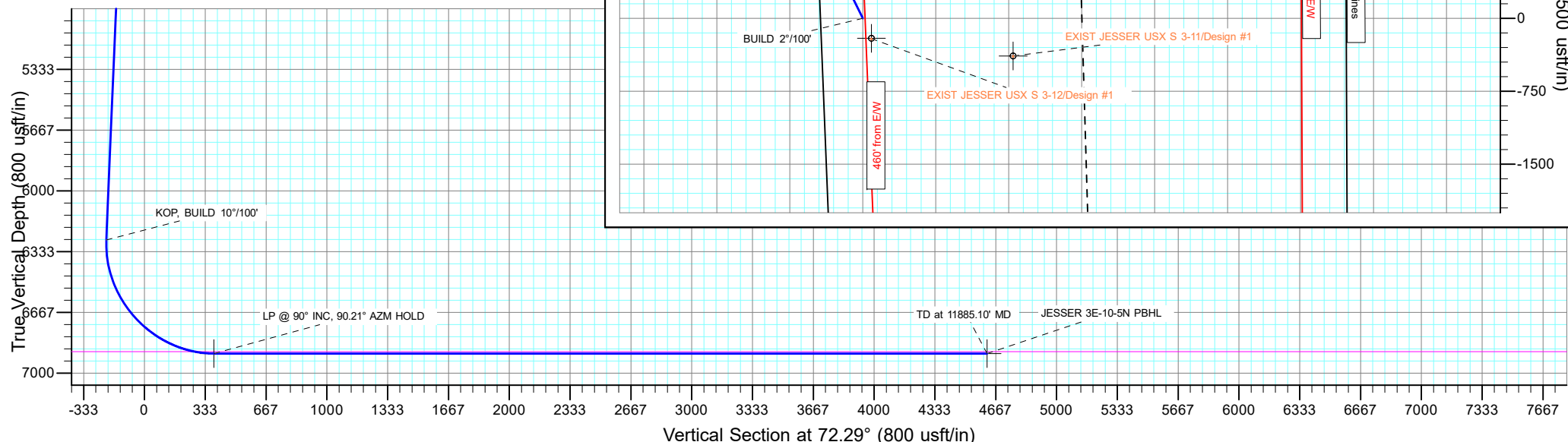
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3489.00	3570.46	PARKMAN
4026.00	4128.68	SUSSEX
4520.00	4642.20	SHANNON
6882.00	7321.44	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, 436' FWL
Sec 3-T4N-R68W
LP:
1320' FNL, 460' FWL
Sec 3-T4N-R68W
BHL:
1320' FNL, 460' FEL
Sec 3-T4N-R68W



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JESSER 3E-10-5N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5138.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5138.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-5N	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-10-5N					
Well Position	+N/-S	2,317.62 usft	Northing:	1,367,718.66 usft	Latitude:	40° 20' 30.120 N
	+E/-W	344.26 usft	Easting:	3,140,032.03 usft	Longitude:	104° 59' 51.504 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,113.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/1/2017	8.34	66.77	52,349.61765396

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	72.29

Plan Survey Tool Program	Date	8/31/2017		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,885.10	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	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,692.44	15.85	333.76	1,682.37	97.68	-48.15	2.00	2.00	0.00	333.76	
6,460.47	15.85	333.76	6,269.15	1,265.63	-623.91	0.00	0.00	0.00	0.00	
7,430.34	90.00	90.21	6,892.00	1,421.85	-54.63	10.00	7.65	12.01	115.58	JESSER 3E-10-5N LF
11,885.10	90.00	90.21	6,892.00	1,405.48	4,400.10	0.00	0.00	0.00	0.00	JESSER 3E-10-5N PI

Planning Report

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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5138.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5138.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-5N	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
BUILD 2°/100'									
1,000.00	2.00	333.76	999.98	1.57	-0.77	-0.26	2.00	2.00	0.00
1,100.00	4.00	333.76	1,099.84	6.26	-3.09	-1.03	2.00	2.00	0.00
1,200.00	6.00	333.76	1,199.45	14.08	-6.94	-2.33	2.00	2.00	0.00
1,300.00	8.00	333.76	1,298.70	25.01	-12.33	-4.13	2.00	2.00	0.00
1,400.00	10.00	333.76	1,397.47	39.04	-19.24	-6.45	2.00	2.00	0.00
1,500.00	12.00	333.76	1,495.62	56.15	-27.68	-9.28	2.00	2.00	0.00
1,600.00	14.00	333.76	1,593.06	76.33	-37.63	-12.62	2.00	2.00	0.00
1,692.44	15.85	333.76	1,682.37	97.68	-48.15	-16.15	2.00	2.00	0.00
HOLD 15.85° INC									
1,700.00	15.85	333.76	1,689.65	99.53	-49.07	-16.45	0.00	0.00	0.00
1,800.00	15.85	333.76	1,785.84	124.03	-61.14	-20.50	0.00	0.00	0.00
1,900.00	15.85	333.76	1,882.04	148.52	-73.22	-24.55	0.00	0.00	0.00
2,000.00	15.85	333.76	1,978.24	173.02	-85.29	-28.60	0.00	0.00	0.00
2,100.00	15.85	333.76	2,074.44	197.51	-97.37	-32.65	0.00	0.00	0.00
2,200.00	15.85	333.76	2,170.64	222.01	-109.44	-36.70	0.00	0.00	0.00
2,300.00	15.85	333.76	2,266.84	246.50	-121.52	-40.75	0.00	0.00	0.00
2,400.00	15.85	333.76	2,363.04	271.00	-133.59	-44.80	0.00	0.00	0.00
2,500.00	15.85	333.76	2,459.23	295.49	-145.67	-48.85	0.00	0.00	0.00
2,600.00	15.85	333.76	2,555.43	319.99	-157.74	-52.90	0.00	0.00	0.00
2,700.00	15.85	333.76	2,651.63	344.48	-169.82	-56.95	0.00	0.00	0.00
2,800.00	15.85	333.76	2,747.83	368.98	-181.89	-61.00	0.00	0.00	0.00
2,900.00	15.85	333.76	2,844.03	393.48	-193.97	-65.05	0.00	0.00	0.00
3,000.00	15.85	333.76	2,940.23	417.97	-206.05	-69.10	0.00	0.00	0.00
3,100.00	15.85	333.76	3,036.43	442.47	-218.12	-73.15	0.00	0.00	0.00
3,200.00	15.85	333.76	3,132.62	466.96	-230.20	-77.20	0.00	0.00	0.00
3,300.00	15.85	333.76	3,228.82	491.46	-242.27	-81.25	0.00	0.00	0.00
3,400.00	15.85	333.76	3,325.02	515.95	-254.35	-85.30	0.00	0.00	0.00
3,500.00	15.85	333.76	3,421.22	540.45	-266.42	-89.35	0.00	0.00	0.00
3,570.46	15.85	333.76	3,489.00	557.71	-274.93	-92.20	0.00	0.00	0.00
PARKMAN									
3,600.00	15.85	333.76	3,517.42	564.94	-278.50	-93.39	0.00	0.00	0.00
3,700.00	15.85	333.76	3,613.62	589.44	-290.57	-97.44	0.00	0.00	0.00
3,800.00	15.85	333.76	3,709.82	613.93	-302.65	-101.49	0.00	0.00	0.00
3,900.00	15.85	333.76	3,806.01	638.43	-314.72	-105.54	0.00	0.00	0.00
4,000.00	15.85	333.76	3,902.21	662.92	-326.80	-109.59	0.00	0.00	0.00
4,100.00	15.85	333.76	3,998.41	687.42	-338.87	-113.64	0.00	0.00	0.00
4,128.68	15.85	333.76	4,026.00	694.45	-342.34	-114.80	0.00	0.00	0.00
SUSSEX									
4,200.00	15.85	333.76	4,094.61	711.92	-350.95	-117.69	0.00	0.00	0.00
4,300.00	15.85	333.76	4,190.81	736.41	-363.03	-121.74	0.00	0.00	0.00
4,400.00	15.85	333.76	4,287.01	760.91	-375.10	-125.79	0.00	0.00	0.00
4,500.00	15.85	333.76	4,383.21	785.40	-387.18	-129.84	0.00	0.00	0.00

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Project:	Weld County	MD Reference:	KB 25' @ 5138.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-5N	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	15.85	333.76	4,479.40	809.90	-399.25	-133.89	0.00	0.00	0.00
4,642.20	15.85	333.76	4,520.00	820.23	-404.35	-135.60	0.00	0.00	0.00
SHANNON									
4,700.00	15.85	333.76	4,575.60	834.39	-411.33	-137.94	0.00	0.00	0.00
4,800.00	15.85	333.76	4,671.80	858.89	-423.40	-141.99	0.00	0.00	0.00
4,900.00	15.85	333.76	4,768.00	883.38	-435.48	-146.04	0.00	0.00	0.00
5,000.00	15.85	333.76	4,864.20	907.88	-447.55	-150.09	0.00	0.00	0.00
5,100.00	15.85	333.76	4,960.40	932.37	-459.63	-154.14	0.00	0.00	0.00
5,200.00	15.85	333.76	5,056.59	956.87	-471.70	-158.19	0.00	0.00	0.00
5,300.00	15.85	333.76	5,152.79	981.36	-483.78	-162.24	0.00	0.00	0.00
5,400.00	15.85	333.76	5,248.99	1,005.86	-495.86	-166.29	0.00	0.00	0.00
5,500.00	15.85	333.76	5,345.19	1,030.36	-507.93	-170.34	0.00	0.00	0.00
5,600.00	15.85	333.76	5,441.39	1,054.85	-520.01	-174.38	0.00	0.00	0.00
5,700.00	15.85	333.76	5,537.59	1,079.35	-532.08	-178.43	0.00	0.00	0.00
5,800.00	15.85	333.76	5,633.79	1,103.84	-544.16	-182.48	0.00	0.00	0.00
5,900.00	15.85	333.76	5,729.98	1,128.34	-556.23	-186.53	0.00	0.00	0.00
6,000.00	15.85	333.76	5,826.18	1,152.83	-568.31	-190.58	0.00	0.00	0.00
6,100.00	15.85	333.76	5,922.38	1,177.33	-580.38	-194.63	0.00	0.00	0.00
6,200.00	15.85	333.76	6,018.58	1,201.82	-592.46	-198.68	0.00	0.00	0.00
6,300.00	15.85	333.76	6,114.78	1,226.32	-604.53	-202.73	0.00	0.00	0.00
6,400.00	15.85	333.76	6,210.98	1,250.81	-616.61	-206.78	0.00	0.00	0.00
6,460.47	15.85	333.76	6,269.15	1,265.63	-623.91	-209.23	0.00	0.00	0.00
KOP, BUILD 10°/100°									
6,500.00	14.57	348.07	6,307.31	1,275.34	-627.33	-209.53	10.00	-3.23	36.19
6,550.00	14.39	8.14	6,355.75	1,287.65	-627.75	-206.18	10.00	-0.36	40.15
6,600.00	15.84	26.59	6,404.05	1,299.91	-623.81	-198.70	10.00	2.89	36.90
6,650.00	18.54	40.92	6,451.83	1,312.03	-615.55	-187.14	10.00	5.39	28.65
6,700.00	22.03	51.29	6,498.74	1,323.90	-603.02	-171.59	10.00	6.98	20.75
6,750.00	26.00	58.80	6,544.41	1,335.45	-586.32	-152.17	10.00	7.94	15.01
6,800.00	30.25	64.38	6,588.51	1,346.58	-565.57	-129.03	10.00	8.51	11.16
6,850.00	34.69	68.67	6,630.68	1,357.21	-540.95	-102.33	10.00	8.88	8.59
6,900.00	39.25	72.09	6,670.62	1,367.26	-512.62	-72.29	10.00	9.12	6.84
6,950.00	43.89	74.89	6,708.02	1,376.65	-480.82	-39.14	10.00	9.28	5.61
7,000.00	48.59	77.26	6,742.60	1,385.31	-445.77	-3.12	10.00	9.40	4.73
7,050.00	53.33	79.30	6,774.08	1,393.17	-407.76	35.49	10.00	9.48	4.09
7,100.00	58.11	81.11	6,802.23	1,400.18	-367.05	76.39	10.00	9.54	3.61
7,150.00	62.90	82.74	6,826.85	1,406.28	-323.98	119.28	10.00	9.59	3.26
7,200.00	67.71	84.23	6,847.73	1,411.42	-278.86	163.82	10.00	9.63	2.99
7,250.00	72.54	85.63	6,864.72	1,415.56	-232.03	209.69	10.00	9.65	2.79
7,300.00	77.37	86.95	6,877.69	1,418.68	-183.86	256.53	10.00	9.67	2.64
7,321.44	79.45	87.50	6,882.00	1,419.70	-162.89	276.82	10.00	9.68	2.57
NIOBRARA A									
7,350.00	82.22	88.22	6,886.55	1,420.76	-134.71	303.97	10.00	9.68	2.53
7,400.00	87.06	89.46	6,891.22	1,421.76	-84.96	351.68	10.00	9.69	2.49
7,430.34	90.00	90.21	6,892.00	1,421.85	-54.63	380.59	10.00	9.69	2.47
LP @ 90° INC, 90.21° AZM HOLD									
7,500.00	90.00	90.21	6,892.00	1,421.59	15.03	446.87	0.00	0.00	0.00
7,600.00	90.00	90.21	6,892.00	1,421.22	115.03	542.02	0.00	0.00	0.00
7,700.00	90.00	90.21	6,892.00	1,420.86	215.03	637.16	0.00	0.00	0.00
7,800.00	90.00	90.21	6,892.00	1,420.49	315.03	732.31	0.00	0.00	0.00
7,900.00	90.00	90.21	6,892.00	1,420.12	415.02	827.45	0.00	0.00	0.00
8,000.00	90.00	90.21	6,892.00	1,419.75	515.02	922.60	0.00	0.00	0.00
8,100.00	90.00	90.21	6,892.00	1,419.39	615.02	1,017.75	0.00	0.00	0.00

Planning Report

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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5138.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5138.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-5N	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	90.21	6,892.00	1,419.02	715.02	1,112.89	0.00	0.00	0.00	
8,300.00	90.00	90.21	6,892.00	1,418.65	815.02	1,208.04	0.00	0.00	0.00	
8,400.00	90.00	90.21	6,892.00	1,418.28	915.02	1,303.18	0.00	0.00	0.00	
8,500.00	90.00	90.21	6,892.00	1,417.92	1,015.02	1,398.33	0.00	0.00	0.00	
8,600.00	90.00	90.21	6,892.00	1,417.55	1,115.02	1,493.48	0.00	0.00	0.00	
8,700.00	90.00	90.21	6,892.00	1,417.18	1,215.02	1,588.62	0.00	0.00	0.00	
8,800.00	90.00	90.21	6,892.00	1,416.81	1,315.02	1,683.77	0.00	0.00	0.00	
8,900.00	90.00	90.21	6,892.00	1,416.45	1,415.02	1,778.91	0.00	0.00	0.00	
9,000.00	90.00	90.21	6,892.00	1,416.08	1,515.02	1,874.06	0.00	0.00	0.00	
9,100.00	90.00	90.21	6,892.00	1,415.71	1,615.02	1,969.21	0.00	0.00	0.00	
9,200.00	90.00	90.21	6,892.00	1,415.34	1,715.02	2,064.35	0.00	0.00	0.00	
9,300.00	90.00	90.21	6,892.00	1,414.98	1,815.02	2,159.50	0.00	0.00	0.00	
9,400.00	90.00	90.21	6,892.00	1,414.61	1,915.01	2,254.64	0.00	0.00	0.00	
9,500.00	90.00	90.21	6,892.00	1,414.24	2,015.01	2,349.79	0.00	0.00	0.00	
9,600.00	90.00	90.21	6,892.00	1,413.88	2,115.01	2,444.94	0.00	0.00	0.00	
9,700.00	90.00	90.21	6,892.00	1,413.51	2,215.01	2,540.08	0.00	0.00	0.00	
9,800.00	90.00	90.21	6,892.00	1,413.14	2,315.01	2,635.23	0.00	0.00	0.00	
9,900.00	90.00	90.21	6,892.00	1,412.77	2,415.01	2,730.37	0.00	0.00	0.00	
10,000.00	90.00	90.21	6,892.00	1,412.41	2,515.01	2,825.52	0.00	0.00	0.00	
10,100.00	90.00	90.21	6,892.00	1,412.04	2,615.01	2,920.67	0.00	0.00	0.00	
10,200.00	90.00	90.21	6,892.00	1,411.67	2,715.01	3,015.81	0.00	0.00	0.00	
10,300.00	90.00	90.21	6,892.00	1,411.30	2,815.01	3,110.96	0.00	0.00	0.00	
10,400.00	90.00	90.21	6,892.00	1,410.94	2,915.01	3,206.10	0.00	0.00	0.00	
10,500.00	90.00	90.21	6,892.00	1,410.57	3,015.01	3,301.25	0.00	0.00	0.00	
10,600.00	90.00	90.21	6,892.00	1,410.20	3,115.01	3,396.40	0.00	0.00	0.00	
10,700.00	90.00	90.21	6,892.00	1,409.83	3,215.01	3,491.54	0.00	0.00	0.00	
10,800.00	90.00	90.21	6,892.00	1,409.47	3,315.01	3,586.69	0.00	0.00	0.00	
10,900.00	90.00	90.21	6,892.00	1,409.10	3,415.00	3,681.83	0.00	0.00	0.00	
11,000.00	90.00	90.21	6,892.00	1,408.73	3,515.00	3,776.98	0.00	0.00	0.00	
11,100.00	90.00	90.21	6,892.00	1,408.36	3,615.00	3,872.13	0.00	0.00	0.00	
11,200.00	90.00	90.21	6,892.00	1,408.00	3,715.00	3,967.27	0.00	0.00	0.00	
11,300.00	90.00	90.21	6,892.00	1,407.63	3,815.00	4,062.42	0.00	0.00	0.00	
11,400.00	90.00	90.21	6,892.00	1,407.26	3,915.00	4,157.56	0.00	0.00	0.00	
11,500.00	90.00	90.21	6,892.00	1,406.90	4,015.00	4,252.71	0.00	0.00	0.00	
11,600.00	90.00	90.21	6,892.00	1,406.53	4,115.00	4,347.86	0.00	0.00	0.00	
11,700.00	90.00	90.21	6,892.00	1,406.16	4,215.00	4,443.00	0.00	0.00	0.00	
11,800.00	90.00	90.21	6,892.00	1,405.79	4,315.00	4,538.15	0.00	0.00	0.00	
11,885.10	90.00	90.21	6,892.00	1,405.48	4,400.10	4,619.11	0.00	0.00	0.00	
TD at 11885.10' MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
JESSER 3E-10-5N LP - hit/miss target - Shape - Point	0.00	0.00	6,892.00	1,421.85	-54.63	1,369,140.17	3,139,969.35	40° 20' 44.171 N	104° 59' 52.210 W	
JESSER 3E-10-5N PBH - plan hits target center - Point	0.00	0.00	6,892.00	1,405.48	4,400.10	1,369,149.04	3,144,424.10	40° 20' 44.005 N	104° 58' 54.674 W	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well JESSER 3E-10-5N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5138.00usft
Project:	Weld County	MD Reference:	KB 25' @ 5138.00usft
Site:	Sec 3-T4N-R68W	North Reference:	True
Well:	JESSER 3E-10-5N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,570.46	3,489.00	PARKMAN			
4,128.68	4,026.00	SUSSEX			
4,642.20	4,520.00	SHANNON			
7,321.44	6,882.00	NIOBRARA A			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
900.00	900.00	0.00	0.00	BUILD 2°/100'
1,692.44	1,682.37	97.68	-48.15	HOLD 15.85° INC
6,460.47	6,269.15	1,265.63	-623.91	KOP, BUILD 10°/100'
7,430.34	6,892.00	1,421.85	-54.63	LP @ 90° INC, 90.21° AZM HOLD
11,885.10	6,892.00	1,405.48	4,400.10	TD at 11885.10' MD