

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

NW NW SEC. 22 T4N R68W 6th P.M.

MLD 11

ORIGINAL WELLBORE

07 July, 2017

Plan: PROPOSAL #3





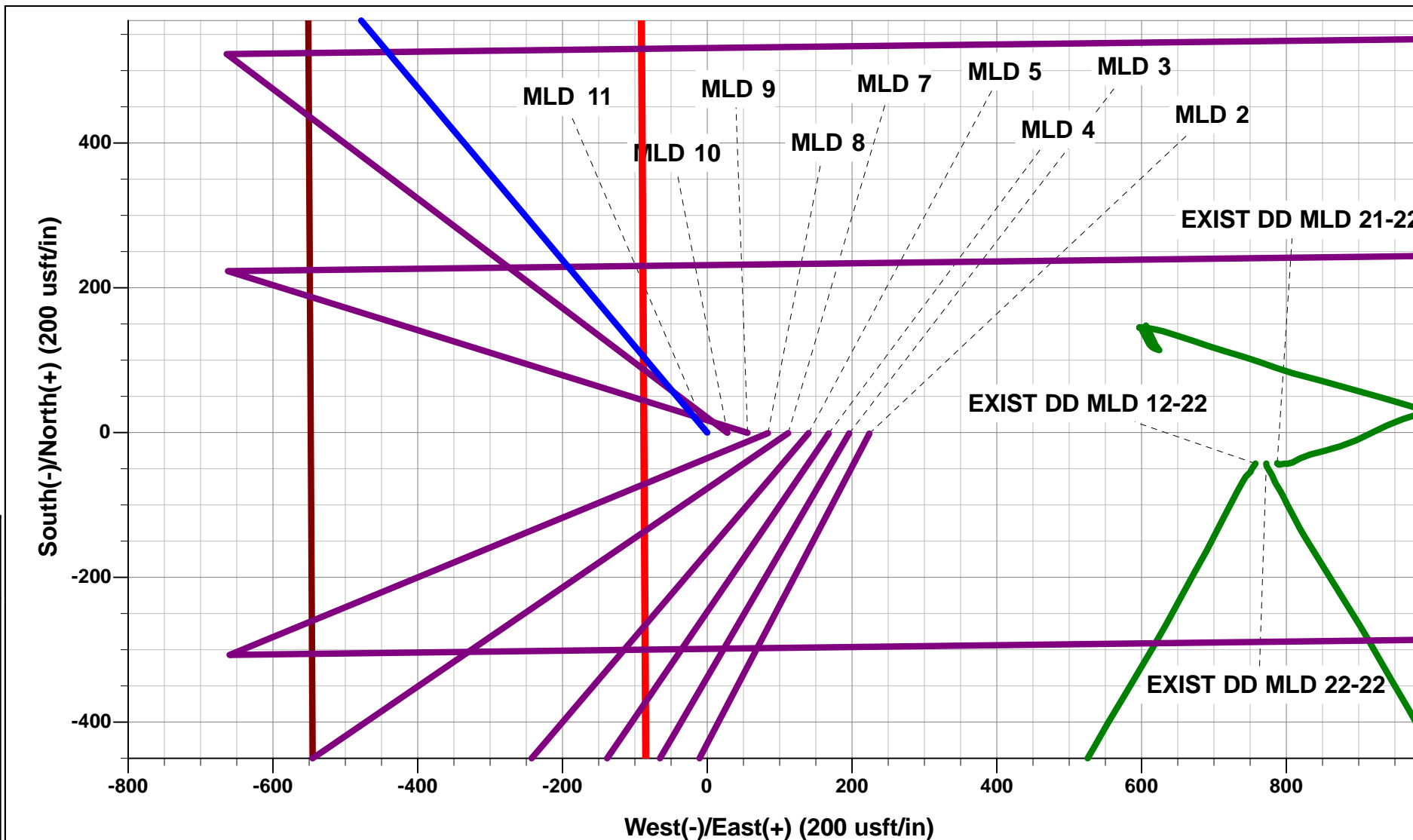
Project: WELD COUNTY, COLORADO (NAD 83)
Site: NW NW SEC. 22 T4N R68W 6th P.M.
Well: MLD 11
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #3

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 801ft FNL & 548ft FWL of Sec 22
1250.0	1250.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1907.5	1913.4	13.27	319.99	58.6	-49.2	-36.8	76.5	EOB TO 13.27° INC
5648.6	5757.1	13.27	319.99	734.2	-616.3	-461.8	958.6	END OF TANGENT
6306.1	6420.5	0.00	319.99	792.8	-665.5	-498.6	1035.1	EOD TO VERTICAL
6336.1	6450.5	0.00	0.00	792.8	-665.5	-498.6	1035.1	KOP (10°/100ft BUR)
6909.0	7350.5	90.00	89.28	800.0	-92.6	64.8	1608.1	HZ LP (P3): 0ft FNL & 460ft FWL of Sec 22
6909.0	11755.9	90.00	89.29	855.1	4312.5	4396.4	6013.4	BHL (P3): 0ft FNL & 460ft FEL of Sec 22

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - MLD 11 (P3)	6336.1	792.8	-665.5	40.306148	-104.999254
HZ LP - MLD 11 (P3)	6909.0	800.0	-92.6	40.306168	-104.997200
BHL - MLD 11 (P3)	6909.0	855.1	4312.5	40.306318	-104.981406



PROPOSED LOCAL COORDINATES

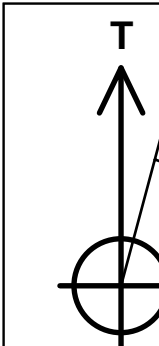
SHL: 801ft FNL & 548ft FWL of Sec 22

HZ LP: 0ft FNL & 460ft FWL of Sec 22

BHL: 0ft FNL & 460ft FEL of Sec 22

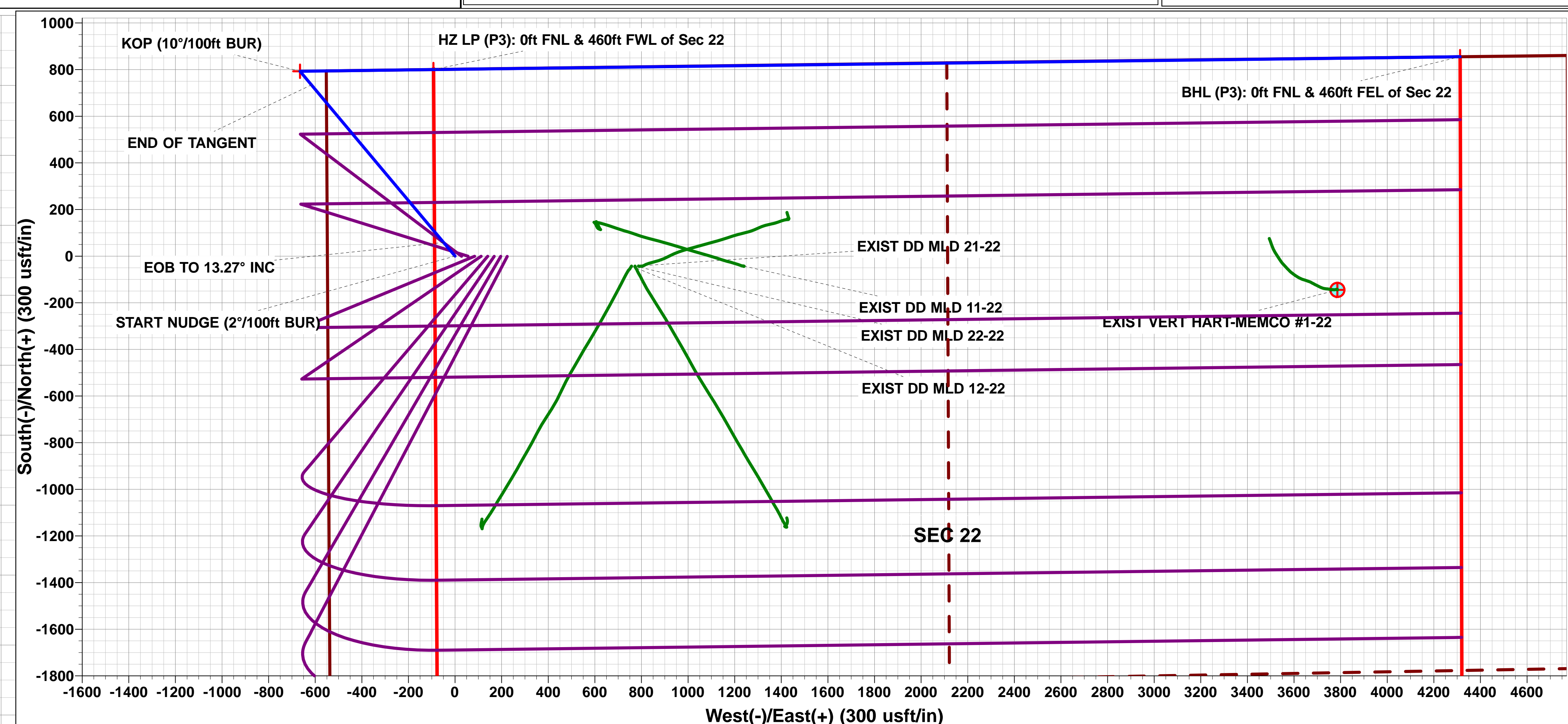
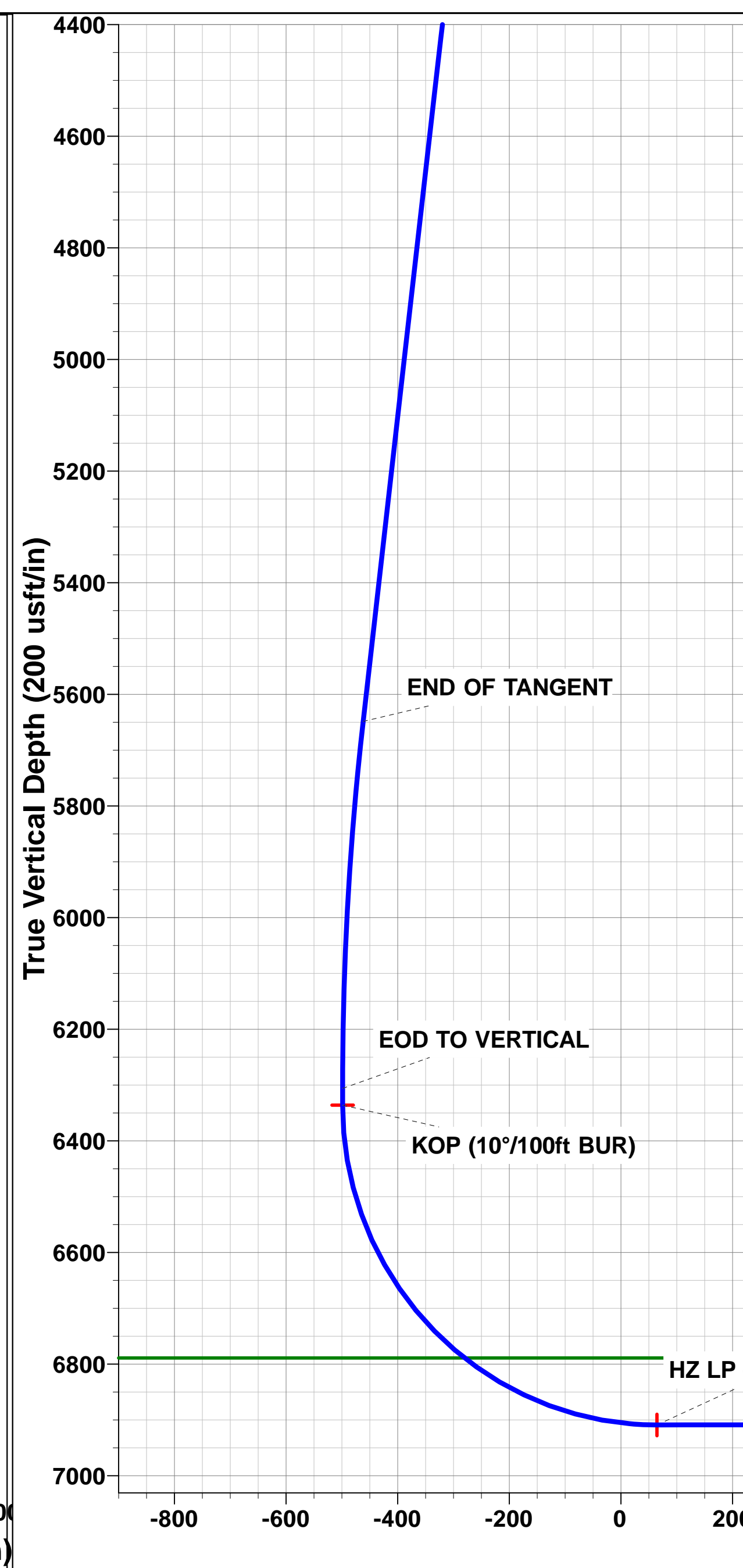
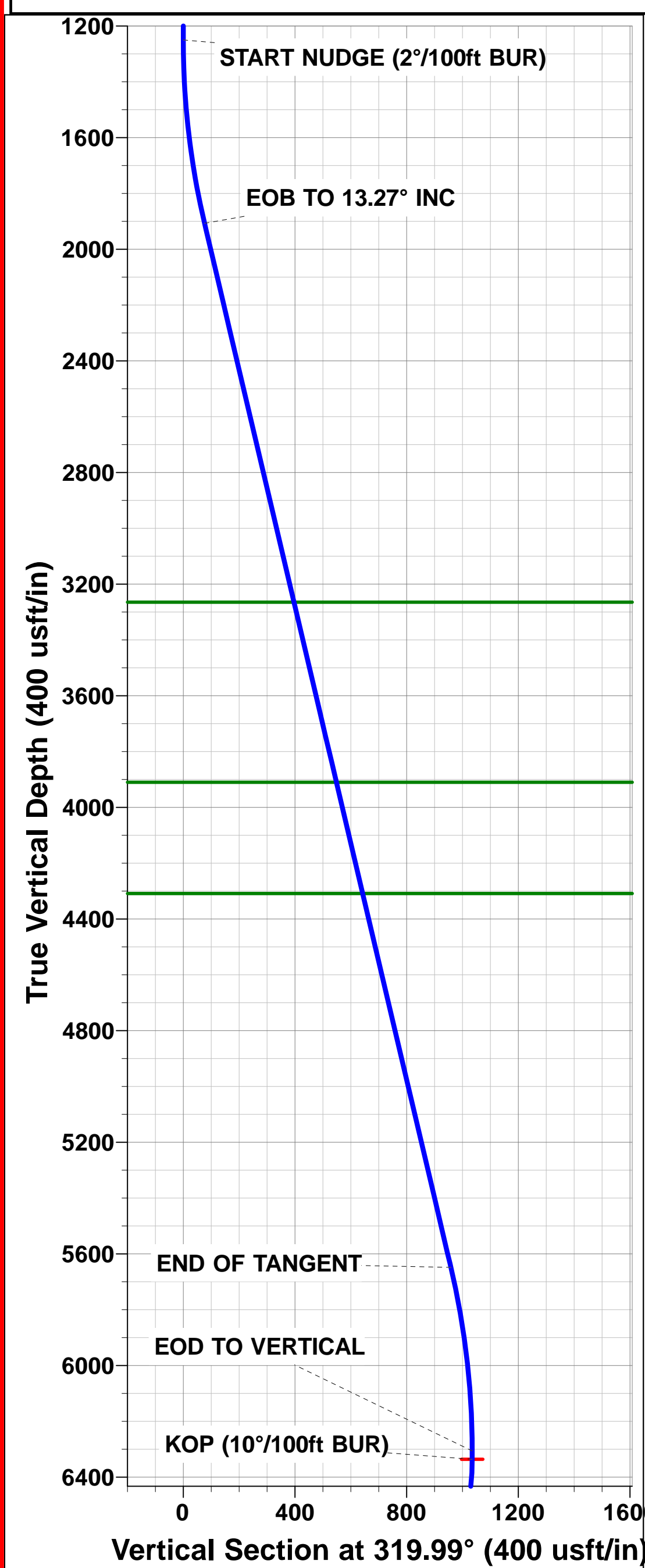
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3265.0	3308.1	PARKMAN
3910.0	3970.8	SUSSEX
4309.0	4380.8	SHANNON
6789.0	6972.8	NIOBRARA



Azimuths to True North
Magnetic North: 8.33°

Magnetic Field
Strength: 52322.3snT
Dip Angle: 66.74°
Date: 01/06/2017
Model: IGRF2015



SETBACK BOUNDARY FALLS 460ft FE/WL of Sec 22

HZ LP - MLD 11 (P3)

BHL - MLD 11 (P3)

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 11
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Site:	NW NW SEC. 22 T4N R68W 6th P.M.	North Reference:	True
Well:	MLD 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Project	WELD COUNTY, COLORADO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	NW NW SEC. 22 T4N R68W 6th P.M.		
Site Position:		Northing:	1,350,393.79 usft
From:	Lat/Long	Easting:	3,140,798.83 usft
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft
		Latitude:	40.294131
		Longitude:	-104.995243
		Grid Convergence:	0.33 °

Well	MLD 11		
Well Position	+N-S	3,585.1 usft	Northing: 1,353,976.12 usfi
	+E-W	-453.2 usft	Easting: 3,140,325.21 usfi
Position Uncertainty	0.0 usft	Wellhead Elevation:	usfi
		Latitude:	40.303972
		Longitude:	-104.996868
		Ground Level:	4,875.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	01/06/2017	8.33	66.74	52,322

Design	PROPOSAL #3			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	6,909.0	0.0	0.0	78.79

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100usf)	Turn Rate (°/100usf)	TFO (°)	Target
0.0	0.00	0.00	0.0	-4,899.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,250.0	0.00	0.00	1,250.0	-3,649.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,913.4	13.27	319.99	1,907.5	-2,991.5	58.6	-49.2	2.00	2.00	0.00	319.99	
5,757.1	13.27	319.99	5,648.6	749.6	734.2	-616.3	0.00	0.00	0.00	0.00	
6,420.5	0.00	0.00	6,306.1	1,407.1	792.8	-665.5	2.00	-2.00	0.00	180.00	
6,450.5	0.00	0.00	6,336.1	1,437.1	792.8	-665.5	0.00	0.00	0.00	0.00	KOP - MLD 11 (P3)
7,350.5	90.00	89.28	6,909.0	2,010.0	800.0	-92.6	10.00	10.00	9.92	89.28	HZ LP - MLD 11 (P3)
11,755.9	90.00	89.29	6,909.0	2,010.0	855.1	4,312.5	0.00	0.00	0.00	120.33	BHL - MLD 11 (P3)

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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Site:	NW NW SEC. 22 T4N R6W 6th P.M.	North Reference:	True
Well:	MLD 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 801ft FNL & 548ft FWL of Sec 22										
0.0	0.00	0.00	0.0	4,899.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,799.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,699.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,599.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,499.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,399.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,299.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,199.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	4,099.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,999.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,899.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,799.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,699.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
1,250.0	0.00	0.00	1,250.0	3,649.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	1.00	319.99	1,300.0	3,599.00	0.3	-0.3	-0.2	2.00	2.00	0.00
1,400.0	3.00	319.99	1,399.9	3,499.07	3.0	-2.5	-1.9	2.00	2.00	0.00
1,500.0	5.00	319.99	1,499.7	3,399.32	8.3	-7.0	-5.3	2.00	2.00	0.00
1,600.0	7.00	319.99	1,599.1	3,299.87	16.4	-13.7	-10.3	2.00	2.00	0.00
1,700.0	9.00	319.99	1,698.2	3,200.85	27.0	-22.7	-17.0	2.00	2.00	0.00
1,800.0	11.00	319.99	1,796.6	3,102.37	40.3	-33.8	-25.4	2.00	2.00	0.00
1,900.0	13.00	319.99	1,894.4	3,004.56	56.2	-47.2	-35.4	2.00	2.00	0.00
EOB TO 13.27° INC										
1,913.4	13.27	319.99	1,907.5	2,991.51	58.6	-49.2	-36.8	2.00	2.00	0.00
2,000.0	13.27	319.99	1,991.8	2,907.22	73.8	-61.9	-46.4	0.00	0.00	0.00
2,100.0	13.27	319.99	2,089.1	2,809.89	91.4	-76.7	-57.5	0.00	0.00	0.00
2,200.0	13.27	319.99	2,186.4	2,712.56	108.9	-91.5	-68.5	0.00	0.00	0.00
2,300.0	13.27	319.99	2,283.8	2,615.23	126.5	-106.2	-79.6	0.00	0.00	0.00
2,400.0	13.27	319.99	2,381.1	2,517.90	144.1	-121.0	-90.6	0.00	0.00	0.00
2,500.0	13.27	319.99	2,478.4	2,420.57	161.7	-135.7	-101.7	0.00	0.00	0.00
2,600.0	13.27	319.99	2,575.8	2,323.24	179.3	-150.5	-112.7	0.00	0.00	0.00
2,700.0	13.27	319.99	2,673.1	2,225.91	196.8	-165.2	-123.8	0.00	0.00	0.00
2,800.0	13.27	319.99	2,770.4	2,128.58	214.4	-180.0	-134.8	0.00	0.00	0.00
2,900.0	13.27	319.99	2,867.8	2,031.25	232.0	-194.7	-145.9	0.00	0.00	0.00
3,000.0	13.27	319.99	2,965.1	1,933.92	249.6	-209.5	-157.0	0.00	0.00	0.00
3,100.0	13.27	319.99	3,062.4	1,836.59	267.2	-224.3	-168.0	0.00	0.00	0.00
3,200.0	13.27	319.99	3,159.7	1,739.26	284.7	-239.0	-179.1	0.00	0.00	0.00
3,300.0	13.27	319.99	3,257.1	1,641.93	302.3	-253.8	-190.1	0.00	0.00	0.00
PARKMAN										
3,308.1	13.27	319.99	3,265.0	1,634.00	303.7	-255.0	-191.0	0.00	0.00	0.00
3,400.0	13.27	319.99	3,354.4	1,544.59	319.9	-268.5	-201.2	0.00	0.00	0.00
3,500.0	13.27	319.99	3,451.7	1,447.26	337.5	-283.3	-212.2	0.00	0.00	0.00
3,600.0	13.27	319.99	3,549.1	1,349.93	355.0	-298.0	-223.3	0.00	0.00	0.00
3,700.0	13.27	319.99	3,646.4	1,252.60	372.6	-312.8	-234.3	0.00	0.00	0.00
3,800.0	13.27	319.99	3,743.7	1,155.27	390.2	-327.5	-245.4	0.00	0.00	0.00
3,900.0	13.27	319.99	3,841.1	1,057.94	407.8	-342.3	-256.5	0.00	0.00	0.00
SUSSEX										
3,970.8	13.27	319.99	3,910.0	989.00	420.2	-352.7	-264.3	0.00	0.00	0.00
4,000.0	13.27	319.99	3,938.4	960.61	425.4	-357.1	-267.5	0.00	0.00	0.00
4,100.0	13.27	319.99	4,035.7	863.28	442.9	-371.8	-278.6	0.00	0.00	0.00
4,200.0	13.27	319.99	4,133.1	765.95	460.5	-386.6	-289.6	0.00	0.00	0.00
4,300.0	13.27	319.99	4,230.4	668.62	478.1	-401.3	-300.7	0.00	0.00	0.00

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Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHANNON										
4,380.8	13.27	319.99	4,309.0	590.00	492.3	-413.2	-309.6	0.00	0.00	0.00
4,400.0	13.27	319.99	4,327.7	571.29	495.7	-416.1	-311.7	0.00	0.00	0.00
4,500.0	13.27	319.99	4,425.0	473.96	513.3	-430.8	-322.8	0.00	0.00	0.00
4,600.0	13.27	319.99	4,522.4	376.63	530.8	-445.6	-333.8	0.00	0.00	0.00
4,700.0	13.27	319.99	4,619.7	279.30	548.4	-460.3	-344.9	0.00	0.00	0.00
4,800.0	13.27	319.99	4,717.0	181.96	566.0	-475.1	-355.9	0.00	0.00	0.00
4,900.0	13.27	319.99	4,814.4	84.63	583.6	-489.9	-367.0	0.00	0.00	0.00
5,000.0	13.27	319.99	4,911.7	-12.70	601.1	-504.6	-378.1	0.00	0.00	0.00
5,100.0	13.27	319.99	5,009.0	-110.03	618.7	-519.4	-389.1	0.00	0.00	0.00
5,200.0	13.27	319.99	5,106.4	-207.36	636.3	-534.1	-400.2	0.00	0.00	0.00
5,300.0	13.27	319.99	5,203.7	-304.69	653.9	-548.9	-411.2	0.00	0.00	0.00
5,400.0	13.27	319.99	5,301.0	-402.02	671.5	-563.6	-422.3	0.00	0.00	0.00
5,500.0	13.27	319.99	5,398.4	-499.35	689.0	-578.4	-433.3	0.00	0.00	0.00
5,600.0	13.27	319.99	5,495.7	-596.68	706.6	-593.1	-444.4	0.00	0.00	0.00
5,700.0	13.27	319.99	5,593.0	-694.01	724.2	-607.9	-455.4	0.00	0.00	0.00
END OF TANGENT										
5,757.1	13.27	319.99	5,648.6	-749.59	734.2	-616.3	-461.8	0.00	0.00	0.00
5,800.0	12.41	319.99	5,690.4	-791.41	741.5	-622.5	-466.3	2.00	-2.00	0.00
5,900.0	10.41	319.99	5,788.4	-889.43	756.7	-635.2	-475.9	2.00	-2.00	0.00
6,000.0	8.41	319.99	5,887.1	-988.08	769.2	-645.7	-483.8	2.00	-2.00	0.00
6,100.0	6.41	319.99	5,986.2	-1,087.24	779.1	-654.0	-490.0	2.00	-2.00	0.00
6,200.0	4.41	319.99	6,085.8	-1,186.79	786.3	-660.0	-494.5	2.00	-2.00	0.00
6,300.0	2.41	319.99	6,185.6	-1,286.61	790.9	-663.9	-497.4	2.00	-2.00	0.00
6,400.0	0.41	319.99	6,285.6	-1,386.57	792.8	-665.4	-498.6	2.00	-2.00	0.00
EOD TO VERTICAL										
6,420.5	0.00	319.99	6,306.1	-1,407.07	792.8	-665.5	-498.6	2.00	-2.00	0.00
KOP (10°/100ft BUR)										
6,450.5	0.00	0.00	6,336.1	-1,437.07	792.8	-665.5	-498.6	0.00	0.00	0.00
6,500.0	4.95	89.28	6,385.5	-1,486.51	792.8	-663.4	-496.5	10.00	10.00	0.00
6,600.0	14.95	89.28	6,483.9	-1,584.88	793.1	-646.1	-479.5	10.00	10.00	0.00
6,700.0	24.95	89.28	6,577.8	-1,678.76	793.5	-612.0	-446.0	10.00	10.00	0.00
6,800.0	34.95	89.28	6,664.3	-1,765.30	794.1	-562.2	-397.0	10.00	10.00	0.00
6,900.0	44.95	89.28	6,740.9	-1,841.86	794.9	-498.0	-333.9	10.00	10.00	0.00
NIOBRARA										
6,972.8	52.24	89.28	6,789.0	-1,890.00	795.6	-443.5	-280.3	10.00	10.00	0.00
7,000.0	54.95	89.28	6,805.1	-1,906.12	795.9	-421.6	-258.8	10.00	10.00	0.00
7,100.0	64.95	89.28	6,855.1	-1,956.13	797.0	-335.2	-173.8	10.00	10.00	0.00
7,200.0	74.95	89.28	6,889.4	-1,990.36	798.2	-241.3	-81.5	10.00	10.00	0.00
7,300.0	84.96	89.28	6,906.8	-2,007.78	799.4	-143.0	15.2	10.00	10.00	0.00
HZ LP (P3): 0ft FNL & 460ft FWL of Sec 22										
7,350.5	90.00	89.28	6,909.0	-2,010.00	800.0	-92.6	64.8	10.00	10.00	0.00
7,400.0	90.00	89.28	6,909.0	-2,010.00	800.7	-43.1	113.5	0.00	0.00	0.00
7,500.0	90.00	89.28	6,909.0	-2,009.99	801.9	56.9	211.8	0.00	0.00	0.00
7,600.0	90.00	89.28	6,909.0	-2,009.98	803.2	156.9	310.1	0.00	0.00	0.00
7,700.0	90.00	89.28	6,909.0	-2,009.98	804.4	256.9	408.4	0.00	0.00	0.00
7,800.0	90.00	89.28	6,909.0	-2,009.97	805.7	356.9	506.8	0.00	0.00	0.00
7,900.0	90.00	89.28	6,909.0	-2,009.97	807.0	456.9	605.1	0.00	0.00	0.00
8,000.0	90.00	89.28	6,909.0	-2,009.96	808.2	556.9	703.4	0.00	0.00	0.00
8,100.0	90.00	89.28	6,909.0	-2,009.96	809.5	656.9	801.8	0.00	0.00	0.00
8,200.0	90.00	89.28	6,909.0	-2,009.95	810.7	756.9	900.1	0.00	0.00	0.00
8,300.0	90.00	89.28	6,908.9	-2,009.95	812.0	856.9	998.4	0.00	0.00	0.00
8,400.0	90.00	89.28	6,908.9	-2,009.95	813.2	956.8	1,096.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 11
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Site:	NW NW SEC. 22 T4N R6W 6th P.M.	North Reference:	True
Well:	MLD 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.0	90.00	89.28	6,908.9	-2,009.94	814.5	1,056.8	1,195.1	0.00	0.00	0.00
8,600.0	90.00	89.28	6,908.9	-2,009.94	815.7	1,156.8	1,293.4	0.00	0.00	0.00
8,700.0	90.00	89.28	6,908.9	-2,009.94	817.0	1,256.8	1,391.7	0.00	0.00	0.00
8,800.0	90.00	89.28	6,908.9	-2,009.93	818.2	1,356.8	1,490.0	0.00	0.00	0.00
8,900.0	90.00	89.28	6,908.9	-2,009.93	819.5	1,456.8	1,588.4	0.00	0.00	0.00
9,000.0	90.00	89.28	6,908.9	-2,009.93	820.8	1,556.8	1,686.7	0.00	0.00	0.00
9,100.0	90.00	89.28	6,908.9	-2,009.93	822.0	1,656.8	1,785.0	0.00	0.00	0.00
9,200.0	90.00	89.28	6,908.9	-2,009.93	823.3	1,756.8	1,883.4	0.00	0.00	0.00
9,300.0	90.00	89.28	6,908.9	-2,009.93	824.5	1,856.8	1,981.7	0.00	0.00	0.00
9,400.0	90.00	89.28	6,908.9	-2,009.93	825.8	1,956.8	2,080.0	0.00	0.00	0.00
9,500.0	90.00	89.28	6,908.9	-2,009.93	827.0	2,056.8	2,178.3	0.00	0.00	0.00
9,600.0	90.00	89.28	6,908.9	-2,009.93	828.3	2,156.8	2,276.7	0.00	0.00	0.00
9,700.0	90.00	89.28	6,908.9	-2,009.93	829.5	2,256.7	2,375.0	0.00	0.00	0.00
9,800.0	90.00	89.29	6,908.9	-2,009.93	830.8	2,356.7	2,473.3	0.00	0.00	0.00
9,900.0	90.00	89.29	6,908.9	-2,009.93	832.0	2,456.7	2,571.6	0.00	0.00	0.00
10,000.0	90.00	89.29	6,908.9	-2,009.93	833.2	2,556.7	2,670.0	0.00	0.00	0.00
10,100.0	90.00	89.29	6,908.9	-2,009.93	834.5	2,656.7	2,768.3	0.00	0.00	0.00
10,200.0	90.00	89.29	6,908.9	-2,009.93	835.7	2,756.7	2,866.6	0.00	0.00	0.00
10,300.0	90.00	89.29	6,908.9	-2,009.93	837.0	2,856.7	2,964.9	0.00	0.00	0.00
10,400.0	90.00	89.29	6,908.9	-2,009.94	838.2	2,956.7	3,063.3	0.00	0.00	0.00
10,500.0	90.00	89.29	6,908.9	-2,009.94	839.5	3,056.7	3,161.6	0.00	0.00	0.00
10,600.0	90.00	89.29	6,908.9	-2,009.94	840.7	3,156.7	3,259.9	0.00	0.00	0.00
10,700.0	90.00	89.29	6,908.9	-2,009.95	842.0	3,256.7	3,358.2	0.00	0.00	0.00
10,800.0	90.00	89.29	6,908.9	-2,009.95	843.2	3,356.7	3,456.6	0.00	0.00	0.00
10,900.0	90.00	89.29	6,909.0	-2,009.95	844.4	3,456.7	3,554.9	0.00	0.00	0.00
11,000.0	90.00	89.29	6,909.0	-2,009.96	845.7	3,556.6	3,653.2	0.00	0.00	0.00
11,100.0	90.00	89.29	6,909.0	-2,009.96	846.9	3,656.6	3,751.5	0.00	0.00	0.00
11,200.0	90.00	89.29	6,909.0	-2,009.97	848.2	3,756.6	3,849.9	0.00	0.00	0.00
11,300.0	90.00	89.29	6,909.0	-2,009.97	849.4	3,856.6	3,948.2	0.00	0.00	0.00
11,400.0	90.00	89.29	6,909.0	-2,009.98	850.6	3,956.6	4,046.5	0.00	0.00	0.00
11,500.0	90.00	89.29	6,909.0	-2,009.98	851.9	4,056.6	4,144.8	0.00	0.00	0.00
11,600.0	90.00	89.29	6,909.0	-2,009.99	853.1	4,156.6	4,243.1	0.00	0.00	0.00
11,700.0	90.00	89.29	6,909.0	-2,010.00	854.4	4,256.6	4,341.5	0.00	0.00	0.00
BHL (P3): 0ft FNL & 460ft FEL of Sec 22										
11,755.9	90.00	89.29	6,909.0	-2,010.00	855.1	4,312.5	4,396.4	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,308.1	3,265.0	PARKMAN		0.00	
3,970.8	3,910.0	SUSSEX		0.00	
4,380.8	4,309.0	SHANNON		0.00	
6,972.8	6,789.0	NIOBRARA		0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 11
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4899.0usft (Original Well Elev)
Site:	NW NW SEC. 22 T4N R68W 6th P.M.	North Reference:	True
Well:	MLD 11	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.0	0.0	0.0	0.0	SHL: 801ft FNL & 548ft FWL of Sec 22
1,250.0	1,250.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,913.4	1,907.5	58.6	-49.2	EOB TO 13.27° INC
5,757.1	5,648.6	734.2	-616.3	END OF TANGENT
6,420.5	6,306.1	792.8	-665.5	EOD TO VERTICAL
6,450.5	6,336.1	792.8	-665.5	KOP (10°/100ft BUR)
7,350.5	6,909.0	800.0	-92.6	HZ LP (P3): 0ft FNL & 460ft FWL of Sec 22
11,755.9	6,909.0	855.1	4,312.5	BHL (P3): 0ft FNL & 460ft FEL of Sec 22