

# **EXTRACTION OIL & GAS**

**WELD COUNTY, COLORADO (NAD 83)**

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

**MLD 10**

**ORIGINAL WELLBORE**

**29 July, 2014**

**Plan: PROPOSAL #1**

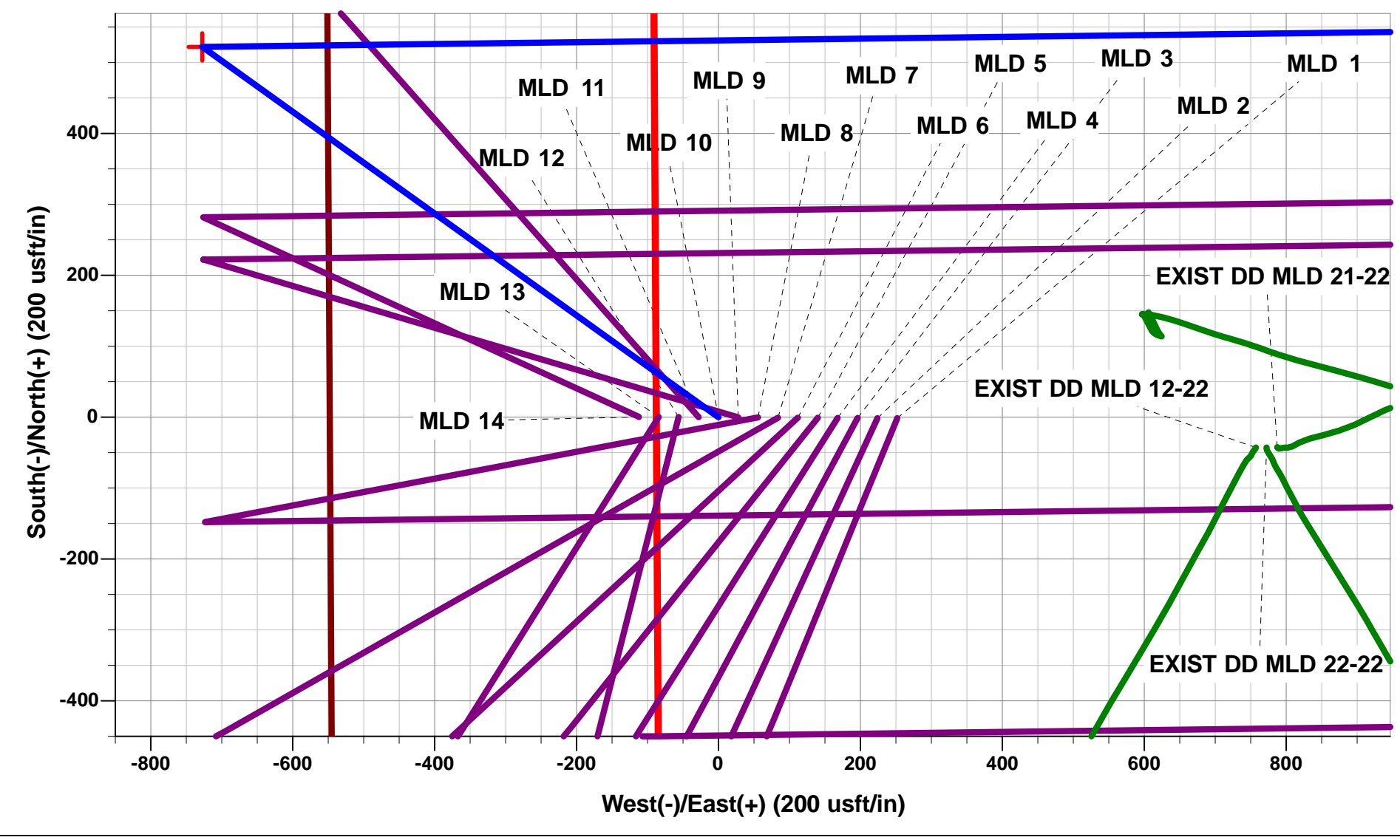




Project: WELD COUNTY, COLORADO (NAD 83)  
Site: SEC. 22 T4N R68W 6th P.M.  
Well: MLD 10  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

ANNOTATIONS								
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Dep	Annotation
1350.0	1350.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (3°/100ft BUR)
1746.9	1749.8	11.99	305.67	24.3	-33.9	-30.3	41.7	EOB TO 11.99° INC
5569.5	5657.7	11.99	305.67	497.8	-693.6	-620.4	853.8	END OF TANGENT
5966.4	6057.5	0.00	0.00	522.1	-727.5	-650.7	895.5	EOD TO VERTICAL
5996.4	6087.5	0.00	0.00	522.1	-727.5	-650.7	895.5	KOP (9°/100ft BUR)
6633.0	7087.5	90.00	89.28	530.1	-90.9	-18.8	1532.1	7" ICP - MLD 10
6633.0	11491.9	90.00	89.29	585.1	4313.1	4352.6	5936.4	BHL - MLD 10

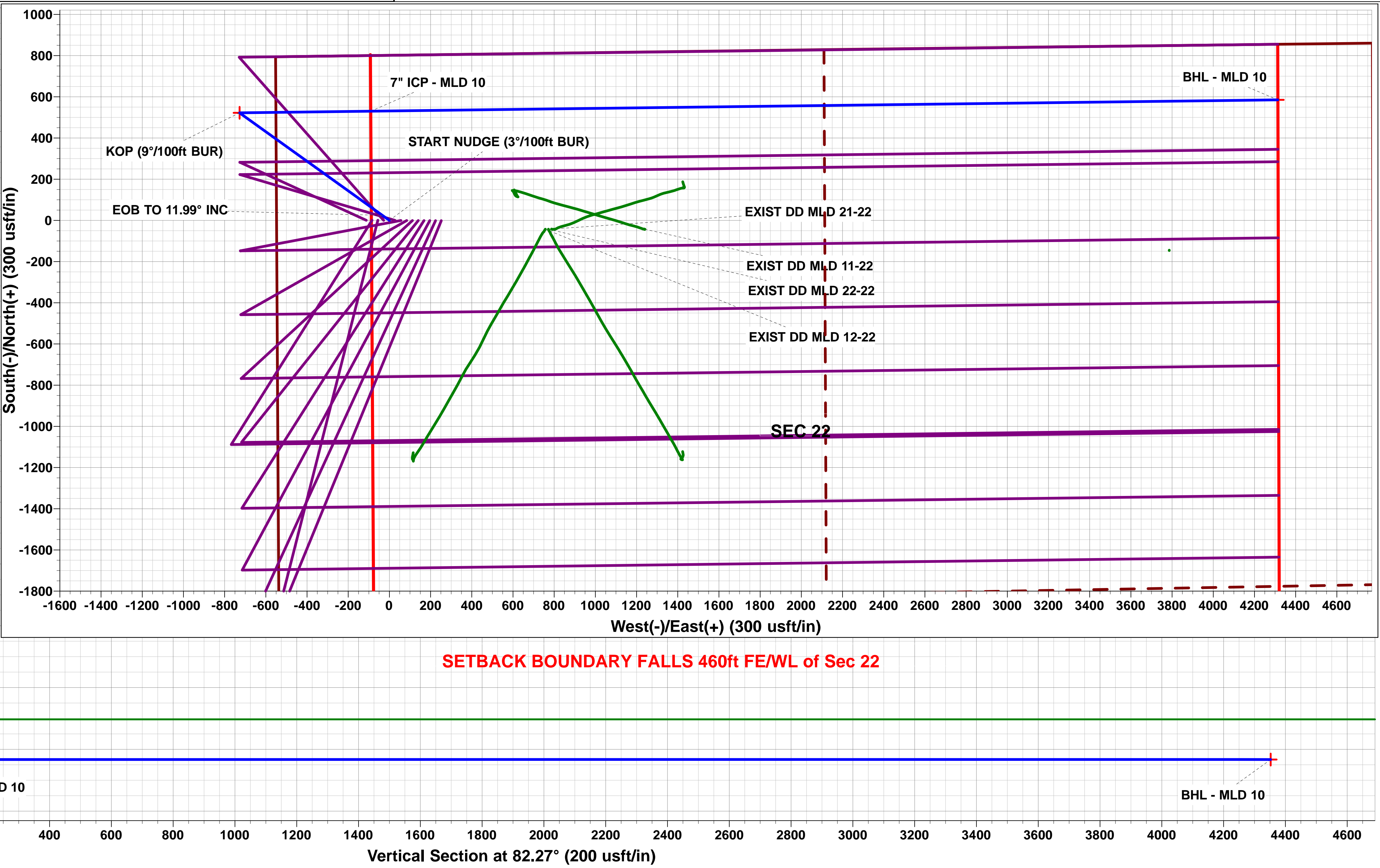
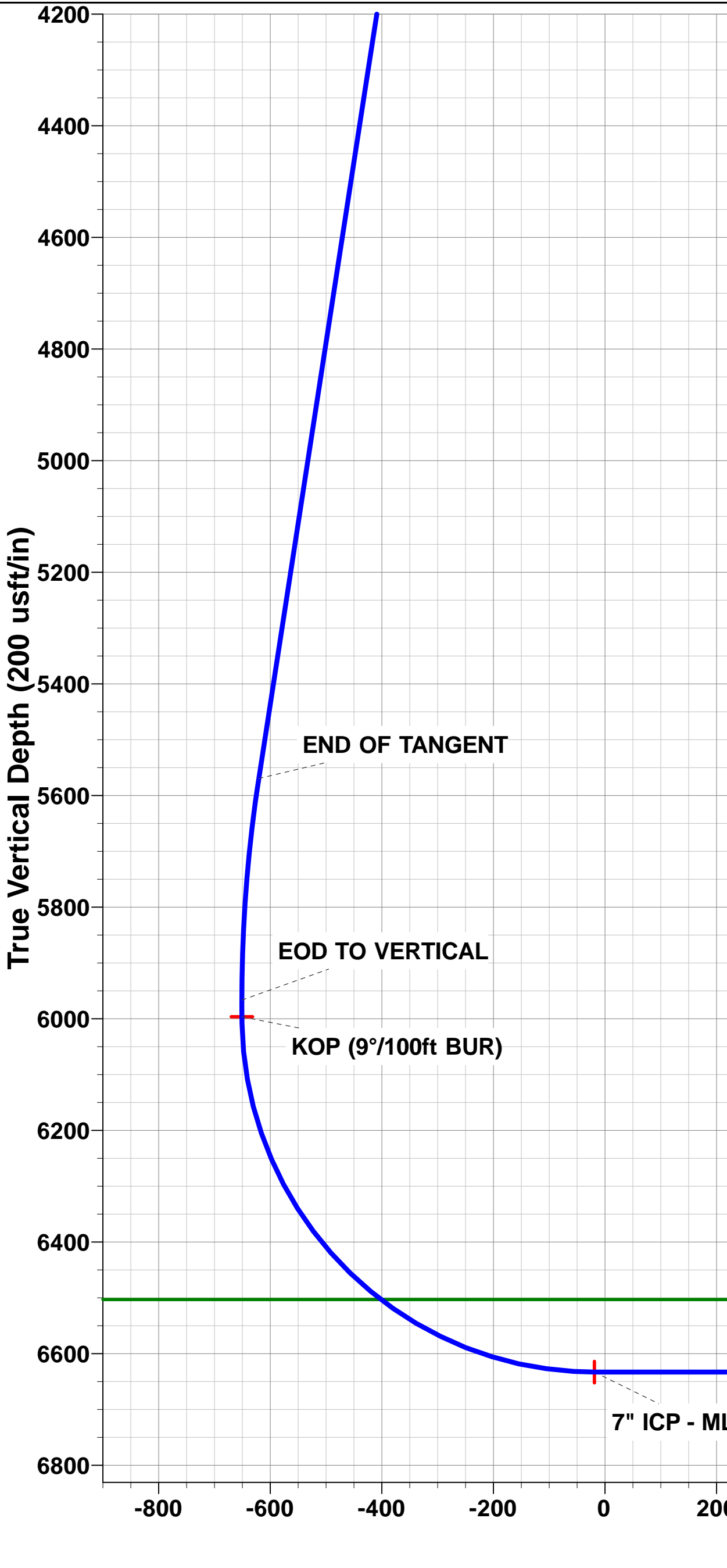
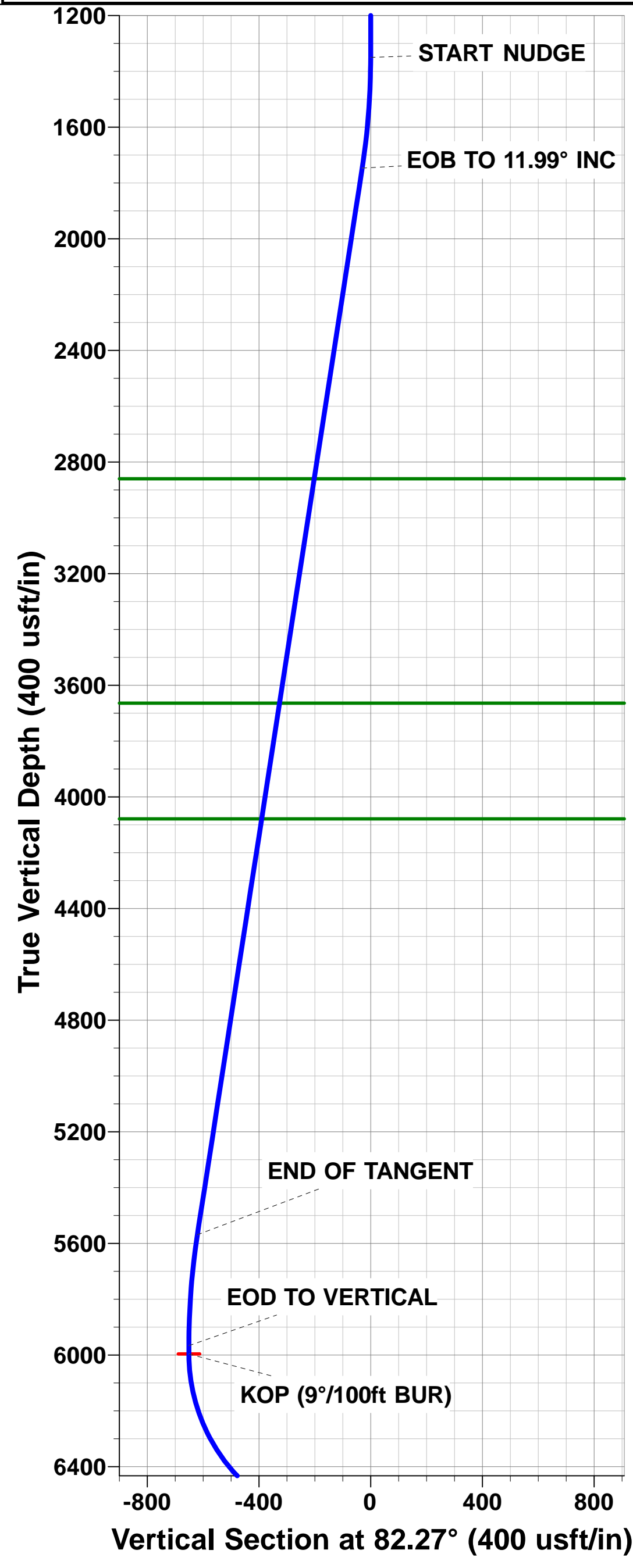
WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - MLD 10	5996.4	522.1	-727.5	40.305405	-104.999476
7" ICP - MLD 10	6633.0	530.1	-90.9	40.305427	-104.997194
BHL - MLD 10	6633.0	585.1	4313.1	40.305577	-104.981404



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2860.0	2887.8	PARKMAN
3664.0	3709.7	SUSSEX
4079.0	4134.0	SHANNON
6503.0	6673.4	NIobrara

Azimuths to True North  
Magnetic North: 8.56°

Magnetic Field  
Strength: 52727.3snT  
Dip Angle: 66.83°  
Date: 29/07/2014  
Model: IGRF2010



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well MLD 10
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Site:</b>	SEC. 22 T4N R68W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	MLD 10	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

<b>Project</b>	WELD COUNTY, COLORADO (NAD 83)		
<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		Using geodetic scale factor

<b>Site</b>	SEC. 22 T4N R68W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,350,393.80 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,140,798.83 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000 ft
		<b>Latitude:</b>	40.294131
		<b>Longitude:</b>	-104.995243
		<b>Grid Convergence:</b>	0.33 °

<b>Well</b>	MLD 10		
<b>Well Position</b>	<b>+N-S</b>	3,585.1 usft	<b>Northing:</b> 1,353,976.13 usfi
	<b>+E-W</b>	-453.2 usft	<b>Easting:</b> 3,140,325.21 usfi
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usfi
		<b>Latitude:</b>	40.303972
		<b>Longitude:</b>	-104.996868
		<b>Ground Level:</b>	4,875.0 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>
	IGRF2010	29/07/2014	8.56	66.83	52,727

<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	82.27

<b>Plan Sections</b>											
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	
1,350.0	0.00	0.00	1,350.0	-3,549.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,749.8	11.99	305.67	1,746.9	-3,152.1	24.3	-33.9	3.00	3.00	0.00	305.67	
5,657.7	11.99	305.67	5,569.5	670.5	497.8	-693.6	0.00	0.00	0.00	0.00	
6,057.5	0.00	0.00	5,966.4	1,067.4	522.1	-727.5	3.00	-3.00	0.00	180.00	
6,087.5	0.00	0.00	5,996.4	1,097.4	522.1	-727.5	0.00	0.00	0.00	0.00	KOP - MLD 10
7,087.5	90.00	89.28	6,633.0	1,734.0	530.1	-90.9	9.00	9.00	8.93	89.28	7" ICP - MLD 10
11,491.9	90.00	89.29	6,633.0	1,734.0	585.1	4,313.1	0.00	0.00	0.00	141.94	BHL - MLD 10

## Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well MLD 10
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Site:</b>	SEC. 22 T4N R68W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	MLD 10	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

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)
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
1,300.0	0.00	0.00	1,300.0	3,599.00	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (3°/100ft BUR)</b>										
<b>1,350.0</b>	<b>0.00</b>	<b>0.00</b>	<b>1,350.0</b>	<b>3,549.00</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1,400.0	1.50	305.67	1,400.0	3,499.01	0.4	-0.5	-0.5	3.00	3.00	0.00
1,500.0	4.50	305.67	1,499.8	3,399.15	3.4	-4.8	-4.3	3.00	3.00	0.00
1,600.0	7.50	305.67	1,599.3	3,299.71	9.5	-13.3	-11.9	3.00	3.00	0.00
1,700.0	10.50	305.67	1,698.0	3,200.96	18.6	-26.0	-23.2	3.00	3.00	0.00
<b>EOB TO 11.99° INC</b>										
<b>1,749.8</b>	<b>11.99</b>	<b>305.67</b>	<b>1,746.9</b>	<b>3,152.13</b>	<b>24.3</b>	<b>-33.9</b>	<b>-30.3</b>	<b>3.00</b>	<b>3.00</b>	<b>0.00</b>
1,800.0	11.99	305.67	1,796.0	3,103.01	30.4	-42.3	-37.9	0.00	0.00	0.00
1,900.0	11.99	305.67	1,893.8	3,005.19	42.5	-59.2	-53.0	0.00	0.00	0.00
2,000.0	11.99	305.67	1,991.6	2,907.38	54.6	-76.1	-68.1	0.00	0.00	0.00
2,100.0	11.99	305.67	2,089.4	2,809.56	66.7	-93.0	-83.2	0.00	0.00	0.00
2,200.0	11.99	305.67	2,187.3	2,711.74	78.9	-109.9	-98.3	0.00	0.00	0.00
2,300.0	11.99	305.67	2,285.1	2,613.92	91.0	-126.8	-113.4	0.00	0.00	0.00
2,400.0	11.99	305.67	2,382.9	2,516.11	103.1	-143.6	-128.5	0.00	0.00	0.00
2,500.0	11.99	305.67	2,480.7	2,418.29	115.2	-160.5	-143.6	0.00	0.00	0.00
2,600.0	11.99	305.67	2,578.5	2,320.47	127.3	-177.4	-158.7	0.00	0.00	0.00
2,700.0	11.99	305.67	2,676.3	2,222.66	139.4	-194.3	-173.8	0.00	0.00	0.00
2,800.0	11.99	305.67	2,774.2	2,124.84	151.6	-211.2	-188.9	0.00	0.00	0.00
<b>PARKMAN</b>										
<b>2,887.8</b>	<b>11.99</b>	<b>305.67</b>	<b>2,860.0</b>	<b>2,039.00</b>	<b>162.2</b>	<b>-226.0</b>	<b>-202.1</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
2,900.0	11.99	305.67	2,872.0	2,027.02	163.7	-228.1	-204.0	0.00	0.00	0.00
3,000.0	11.99	305.67	2,969.8	1,929.20	175.8	-244.9	-219.1	0.00	0.00	0.00
3,100.0	11.99	305.67	3,067.6	1,831.39	187.9	-261.8	-234.2	0.00	0.00	0.00
3,200.0	11.99	305.67	3,165.4	1,733.57	200.0	-278.7	-249.3	0.00	0.00	0.00
3,300.0	11.99	305.67	3,263.2	1,635.75	212.1	-295.6	-264.4	0.00	0.00	0.00
3,400.0	11.99	305.67	3,361.1	1,537.94	224.2	-312.5	-279.5	0.00	0.00	0.00
3,500.0	11.99	305.67	3,458.9	1,440.12	236.4	-329.3	-294.6	0.00	0.00	0.00
3,600.0	11.99	305.67	3,556.7	1,342.30	248.5	-346.2	-309.7	0.00	0.00	0.00
3,700.0	11.99	305.67	3,654.5	1,244.48	260.6	-363.1	-324.8	0.00	0.00	0.00
<b>SUSSEX</b>										
<b>3,709.7</b>	<b>11.99</b>	<b>305.67</b>	<b>3,664.0</b>	<b>1,235.00</b>	<b>261.8</b>	<b>-364.8</b>	<b>-326.3</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
3,800.0	11.99	305.67	3,752.3	1,146.67	272.7	-380.0	-339.9	0.00	0.00	0.00
3,900.0	11.99	305.67	3,850.2	1,048.85	284.8	-396.9	-355.0	0.00	0.00	0.00
4,000.0	11.99	305.67	3,948.0	951.03	296.9	-413.8	-370.1	0.00	0.00	0.00
4,100.0	11.99	305.67	4,045.8	853.22	309.1	-430.6	-385.2	0.00	0.00	0.00
<b>SHANNON</b>										
<b>4,134.0</b>	<b>11.99</b>	<b>305.67</b>	<b>4,079.0</b>	<b>820.00</b>	<b>313.2</b>	<b>-436.4</b>	<b>-390.3</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
4,200.0	11.99	305.67	4,143.6	755.40	321.2	-447.5	-400.3	0.00	0.00	0.00
4,300.0	11.99	305.67	4,241.4	657.58	333.3	-464.4	-415.4	0.00	0.00	0.00

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<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Site:</b>	SEC. 22 T4N R68W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	MLD 10	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## 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)
4,400.0	11.99	305.67	4,339.2	559.76	345.4	-481.3	-430.5	0.00	0.00	0.00
4,500.0	11.99	305.67	4,437.1	461.95	357.5	-498.2	-445.6	0.00	0.00	0.00
4,600.0	11.99	305.67	4,534.9	364.13	369.6	-515.1	-460.7	0.00	0.00	0.00
4,700.0	11.99	305.67	4,632.7	266.31	381.8	-531.9	-475.8	0.00	0.00	0.00
4,800.0	11.99	305.67	4,730.5	168.50	393.9	-548.8	-490.9	0.00	0.00	0.00
4,900.0	11.99	305.67	4,828.3	70.68	406.0	-565.7	-506.0	0.00	0.00	0.00
5,000.0	11.99	305.67	4,926.1	-27.14	418.1	-582.6	-521.1	0.00	0.00	0.00
5,100.0	11.99	305.67	5,024.0	-124.96	430.2	-599.5	-536.2	0.00	0.00	0.00
5,200.0	11.99	305.67	5,121.8	-222.77	442.3	-616.4	-551.3	0.00	0.00	0.00
5,300.0	11.99	305.67	5,219.6	-320.59	454.4	-633.2	-566.4	0.00	0.00	0.00
5,400.0	11.99	305.67	5,317.4	-418.41	466.6	-650.1	-581.5	0.00	0.00	0.00
5,500.0	11.99	305.67	5,415.2	-516.22	478.7	-667.0	-596.6	0.00	0.00	0.00
5,600.0	11.99	305.67	5,513.0	-614.04	490.8	-683.9	-611.7	0.00	0.00	0.00
<b>END OF TANGENT</b>										
5,657.7	11.99	305.67	5,569.5	-670.53	497.8	-693.6	-620.4	0.00	0.00	0.00
5,700.0	10.73	305.67	5,611.0	-711.95	502.6	-700.4	-626.5	3.00	-3.00	0.00
5,800.0	7.73	305.67	5,709.6	-810.65	512.0	-713.4	-638.1	3.00	-3.00	0.00
5,900.0	4.73	305.67	5,809.0	-910.05	518.3	-722.2	-646.0	3.00	-3.00	0.00
6,000.0	1.73	305.67	5,908.9	-1,009.88	521.6	-726.8	-650.1	3.00	-3.00	0.00
<b>EOD TO VERTICAL</b>										
6,057.5	0.00	0.00	5,966.4	-1,067.40	522.1	-727.5	-650.7	3.00	-3.00	0.00
<b>KOP (9°/100ft BUR)</b>										
6,087.5	0.00	0.00	5,996.4	-1,097.40	522.1	-727.5	-650.7	0.00	0.00	0.00
6,100.0	1.12	89.28	6,008.9	-1,109.87	522.1	-727.4	-650.6	9.00	9.00	0.00
6,200.0	10.12	89.28	6,108.3	-1,209.28	522.2	-717.6	-640.9	9.00	9.00	0.00
6,300.0	19.12	89.28	6,204.9	-1,305.94	522.5	-692.4	-615.8	9.00	9.00	0.00
6,400.0	28.12	89.28	6,296.5	-1,397.47	523.0	-652.3	-576.1	9.00	9.00	0.00
6,500.0	37.12	89.28	6,380.6	-1,481.61	523.7	-598.5	-522.7	9.00	9.00	0.00
6,600.0	46.12	89.28	6,455.3	-1,556.28	524.5	-532.1	-456.8	9.00	9.00	0.00
<b>NIOBRARA</b>										
6,673.4	52.73	89.28	6,503.0	-1,604.00	525.2	-476.4	-401.5	9.00	9.00	0.00
6,700.0	55.12	89.28	6,518.7	-1,619.66	525.5	-454.9	-380.2	9.00	9.00	0.00
6,800.0	64.12	89.28	6,569.2	-1,670.18	526.6	-368.8	-294.6	9.00	9.00	0.00
6,900.0	73.12	89.28	6,605.6	-1,706.59	527.8	-275.7	-202.3	9.00	9.00	0.00
7,000.0	82.12	89.28	6,627.0	-1,728.00	529.0	-178.2	-105.4	9.00	9.00	0.00
<b>7" ICP - MLD 10</b>										
7,087.5	90.00	89.28	6,633.0	-1,734.00	530.1	-90.9	-18.8	9.00	9.00	0.00
7,100.0	90.00	89.28	6,633.0	-1,734.00	530.2	-78.5	-6.5	0.00	0.00	0.00
7,200.0	90.00	89.28	6,633.0	-1,734.00	531.5	21.5	92.8	0.00	0.00	0.00
7,300.0	90.00	89.28	6,633.0	-1,733.99	532.7	121.5	192.0	0.00	0.00	0.00
7,400.0	90.00	89.28	6,633.0	-1,733.99	534.0	221.5	291.3	0.00	0.00	0.00
7,500.0	90.00	89.28	6,633.0	-1,733.99	535.2	321.5	390.5	0.00	0.00	0.00
7,600.0	90.00	89.28	6,633.0	-1,733.98	536.5	421.5	489.8	0.00	0.00	0.00
7,700.0	90.00	89.28	6,633.0	-1,733.98	537.7	521.5	589.1	0.00	0.00	0.00
7,800.0	90.00	89.28	6,633.0	-1,733.98	539.0	621.5	688.3	0.00	0.00	0.00
7,900.0	90.00	89.28	6,633.0	-1,733.97	540.2	721.5	787.6	0.00	0.00	0.00
8,000.0	90.00	89.28	6,633.0	-1,733.97	541.5	821.5	886.8	0.00	0.00	0.00
8,100.0	90.00	89.28	6,633.0	-1,733.97	542.7	921.5	986.1	0.00	0.00	0.00
8,200.0	90.00	89.28	6,633.0	-1,733.97	544.0	1,021.5	1,085.3	0.00	0.00	0.00
8,300.0	90.00	89.28	6,633.0	-1,733.97	545.2	1,121.5	1,184.6	0.00	0.00	0.00
8,400.0	90.00	89.28	6,633.0	-1,733.96	546.5	1,221.4	1,283.8	0.00	0.00	0.00
8,500.0	90.00	89.28	6,633.0	-1,733.96	547.7	1,321.4	1,383.1	0.00	0.00	0.00
8,600.0	90.00	89.28	6,633.0	-1,733.96	549.0	1,421.4	1,482.3	0.00	0.00	0.00



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well MLD 10
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Site:</b>	SEC. 22 T4N R68W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	MLD 10	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

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)
8,700.0	90.00	89.28	6,633.0	-1,733.96	550.2	1,521.4	1,581.6	0.00	0.00	0.00
8,800.0	90.00	89.28	6,633.0	-1,733.96	551.5	1,621.4	1,680.8	0.00	0.00	0.00
8,900.0	90.00	89.28	6,633.0	-1,733.96	552.7	1,721.4	1,780.1	0.00	0.00	0.00
9,000.0	90.00	89.28	6,633.0	-1,733.96	554.0	1,821.4	1,879.3	0.00	0.00	0.00
9,100.0	90.00	89.28	6,633.0	-1,733.96	555.2	1,921.4	1,978.6	0.00	0.00	0.00
9,200.0	90.00	89.28	6,633.0	-1,733.96	556.5	2,021.4	2,077.8	0.00	0.00	0.00
9,300.0	90.00	89.28	6,633.0	-1,733.96	557.7	2,121.4	2,177.1	0.00	0.00	0.00
9,400.0	90.00	89.28	6,633.0	-1,733.96	559.0	2,221.4	2,276.3	0.00	0.00	0.00
9,500.0	90.00	89.28	6,633.0	-1,733.96	560.2	2,321.4	2,375.6	0.00	0.00	0.00
9,600.0	90.00	89.28	6,633.0	-1,733.96	561.5	2,421.4	2,474.9	0.00	0.00	0.00
9,700.0	90.00	89.28	6,633.0	-1,733.96	562.7	2,521.3	2,574.1	0.00	0.00	0.00
9,800.0	90.00	89.28	6,633.0	-1,733.96	564.0	2,621.3	2,673.4	0.00	0.00	0.00
9,900.0	90.00	89.28	6,633.0	-1,733.96	565.2	2,721.3	2,772.6	0.00	0.00	0.00
10,000.0	90.00	89.28	6,633.0	-1,733.96	566.5	2,821.3	2,871.9	0.00	0.00	0.00
10,100.0	90.00	89.28	6,633.0	-1,733.96	567.7	2,921.3	2,971.1	0.00	0.00	0.00
10,200.0	90.00	89.28	6,633.0	-1,733.96	569.0	3,021.3	3,070.4	0.00	0.00	0.00
10,300.0	90.00	89.29	6,633.0	-1,733.97	570.2	3,121.3	3,169.6	0.00	0.00	0.00
10,400.0	90.00	89.29	6,633.0	-1,733.97	571.5	3,221.3	3,268.9	0.00	0.00	0.00
10,500.0	90.00	89.29	6,633.0	-1,733.97	572.7	3,321.3	3,368.1	0.00	0.00	0.00
10,600.0	90.00	89.29	6,633.0	-1,733.97	574.0	3,421.3	3,467.4	0.00	0.00	0.00
10,700.0	90.00	89.29	6,633.0	-1,733.97	575.2	3,521.3	3,566.6	0.00	0.00	0.00
10,800.0	90.00	89.29	6,633.0	-1,733.98	576.5	3,621.3	3,665.9	0.00	0.00	0.00
10,900.0	90.00	89.29	6,633.0	-1,733.98	577.7	3,721.3	3,765.1	0.00	0.00	0.00
11,000.0	90.00	89.29	6,633.0	-1,733.98	579.0	3,821.2	3,864.4	0.00	0.00	0.00
11,100.0	90.00	89.29	6,633.0	-1,733.99	580.2	3,921.2	3,963.6	0.00	0.00	0.00
11,200.0	90.00	89.29	6,633.0	-1,733.99	581.5	4,021.2	4,062.9	0.00	0.00	0.00
11,300.0	90.00	89.29	6,633.0	-1,733.99	582.7	4,121.2	4,162.1	0.00	0.00	0.00
11,400.0	90.00	89.29	6,633.0	-1,734.00	583.9	4,221.2	4,261.4	0.00	0.00	0.00
<b>BHL - MLD 10</b>										
<b>11,491.9</b>	<b>90.00</b>	<b>89.29</b>	<b>6,633.0</b>	<b>-1,734.00</b>	<b>585.1</b>	<b>4,313.1</b>	<b>4,352.6</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,887.8	2,860.0	PARKMAN		0.00		
3,709.7	3,664.0	SUSSEX		0.00		
4,134.0	4,079.0	SHANNON		0.00		
6,673.4	6,503.0	NIOBRARA		0.00		

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well MLD 10
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4899.0usft (Original Well Elev)
<b>Site:</b>	SEC. 22 T4N R68W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	MLD 10	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,350.0	1,350.0	0.0	0.0	START NUDGE (3°/100ft BUR)
1,749.8	1,746.9	24.3	-33.9	EOB TO 11.99° INC
5,657.7	5,569.5	497.8	-693.6	END OF TANGENT
6,057.5	5,966.4	522.1	-727.5	EOD TO VERTICAL
6,087.5	5,996.4	522.1	-727.5	KOP (9°/100ft BUR)
7,087.5	6,633.0	530.1	-90.9	7" ICP - MLD 10
11,491.9	6,633.0	585.1	4,313.1	BHL - MLD 10