

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

SEC. 22 T4N R68W 6th P.M.

MLD 8

ORIGINAL WELLBORE

29 July, 2014

Plan: PROPOSAL #1

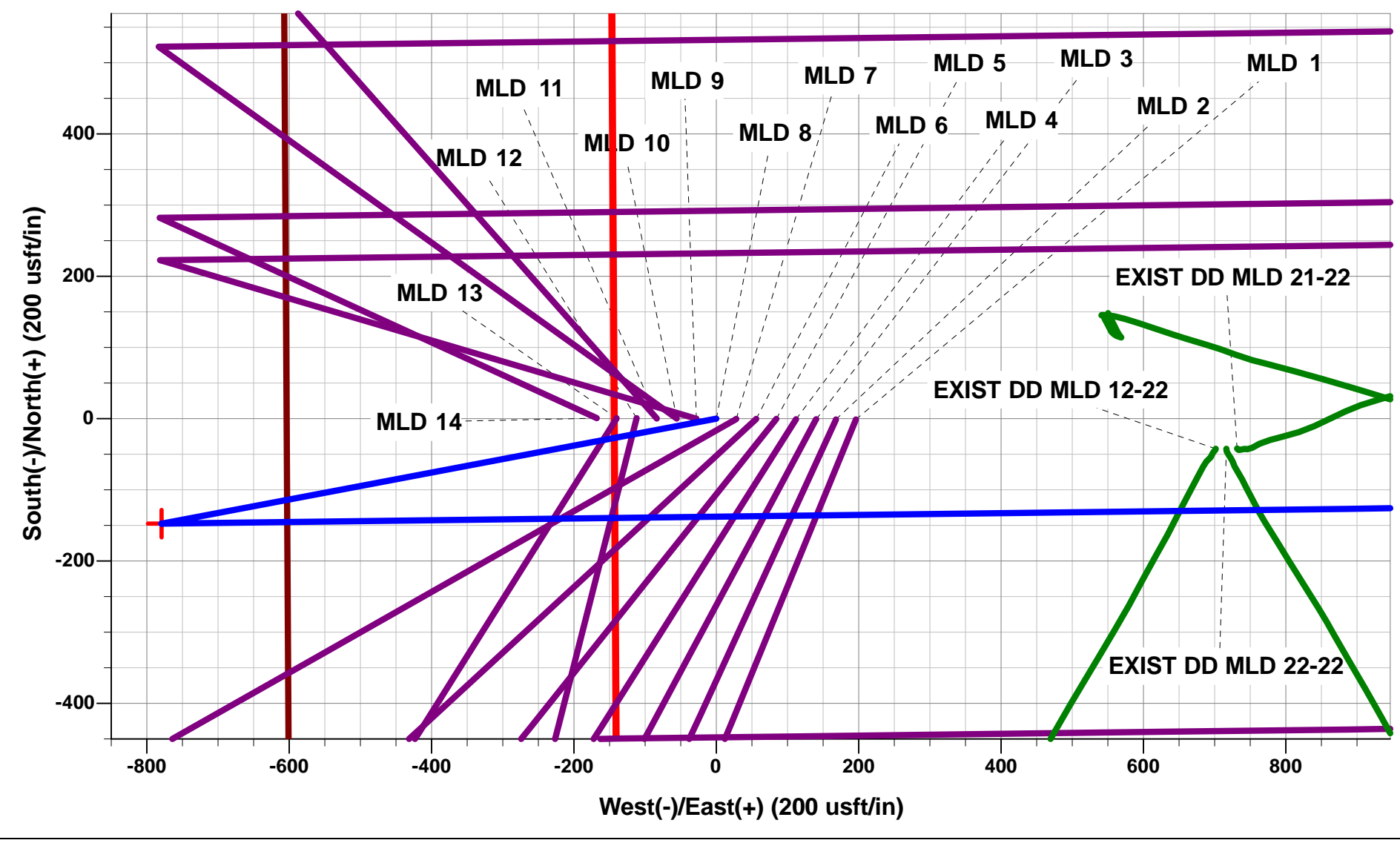




Project: WELD COUNTY, COLORADO (NAD 83)
Site: SEC. 22 T4N R68W 6th P.M.
Well: MLD 8
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS								
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
1550.0	1550.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (3°/100ft BUR)
1917.5	1919.8	11.09	259.28	-6.6	-35.1	-34.9	35.7	EOB TO 11.09° INC
5598.9	5671.3	11.09	259.28	-140.9	-744.3	-741.4	757.5	END OF TANGENT
5966.4	6041.1	0.00	0.00	-147.5	-779.4	-776.3	793.2	EOD TO VERTICAL
5996.4	6071.1	0.00	0.00	-147.5	-779.4	-776.3	793.2	KOP (9°/100ft BUR)
6633.0	7071.1	90.00	89.28	-139.5	-142.8	-140.0	1429.9	7" ICP - MLD 8
6633.0	11473.6	90.00	89.29	-84.5	4259.4	4260.2	5832.4	BHL - MLD 8

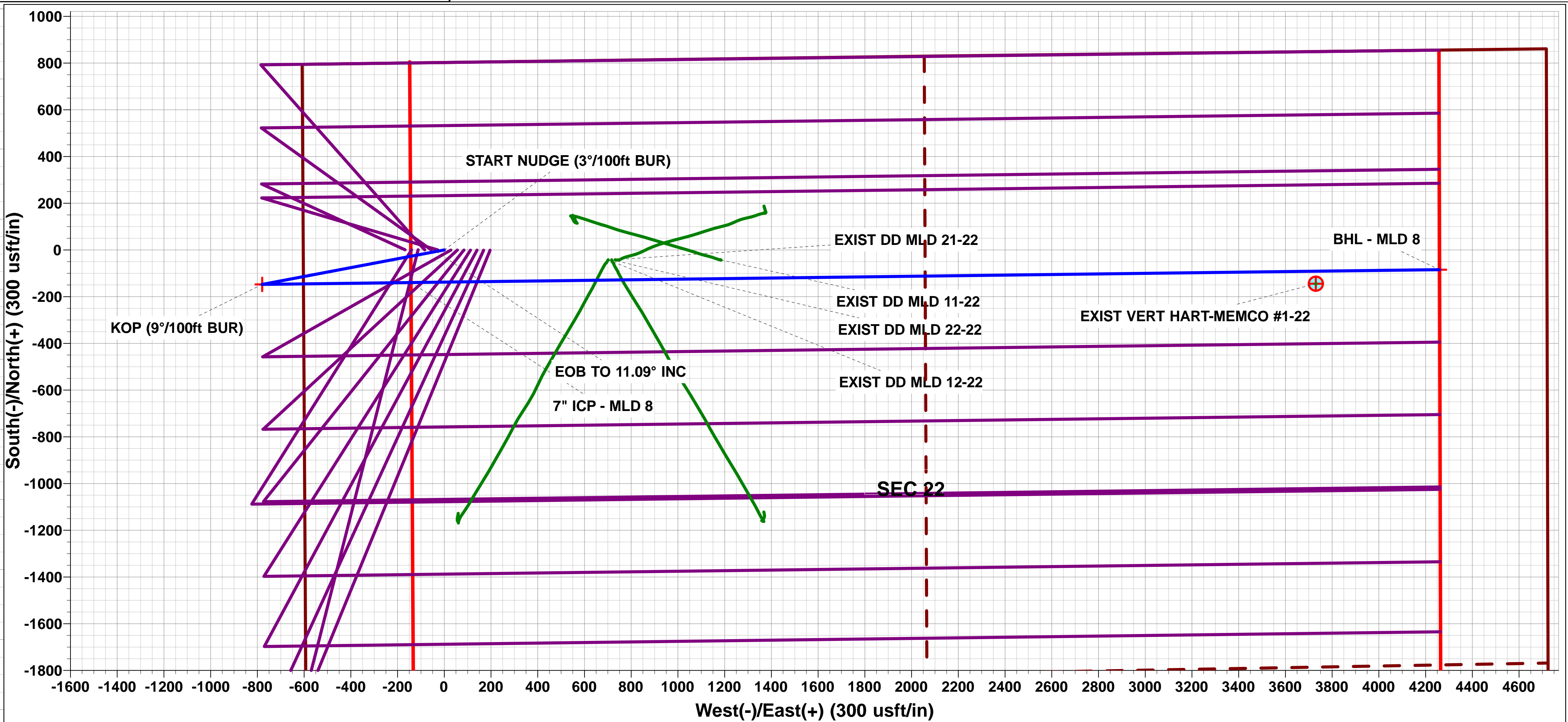
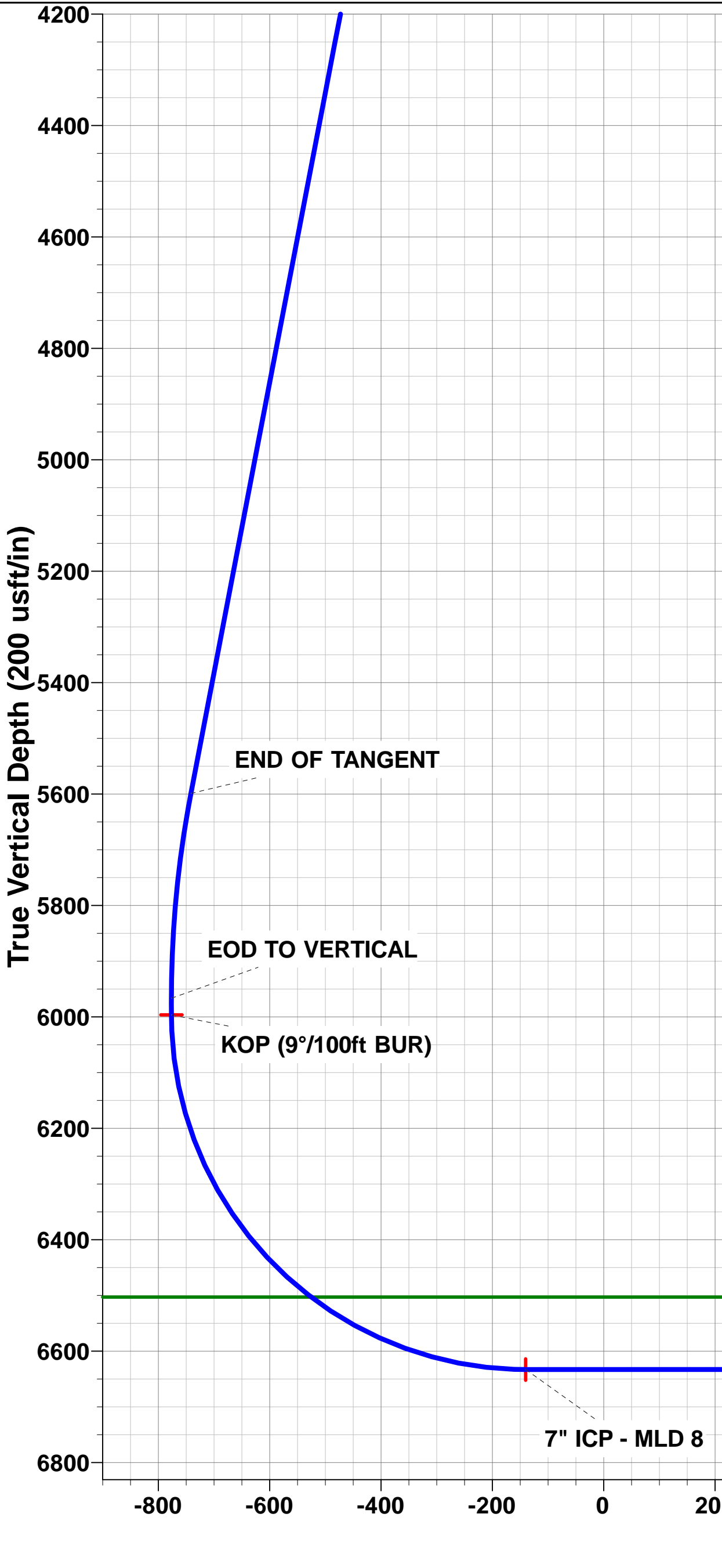
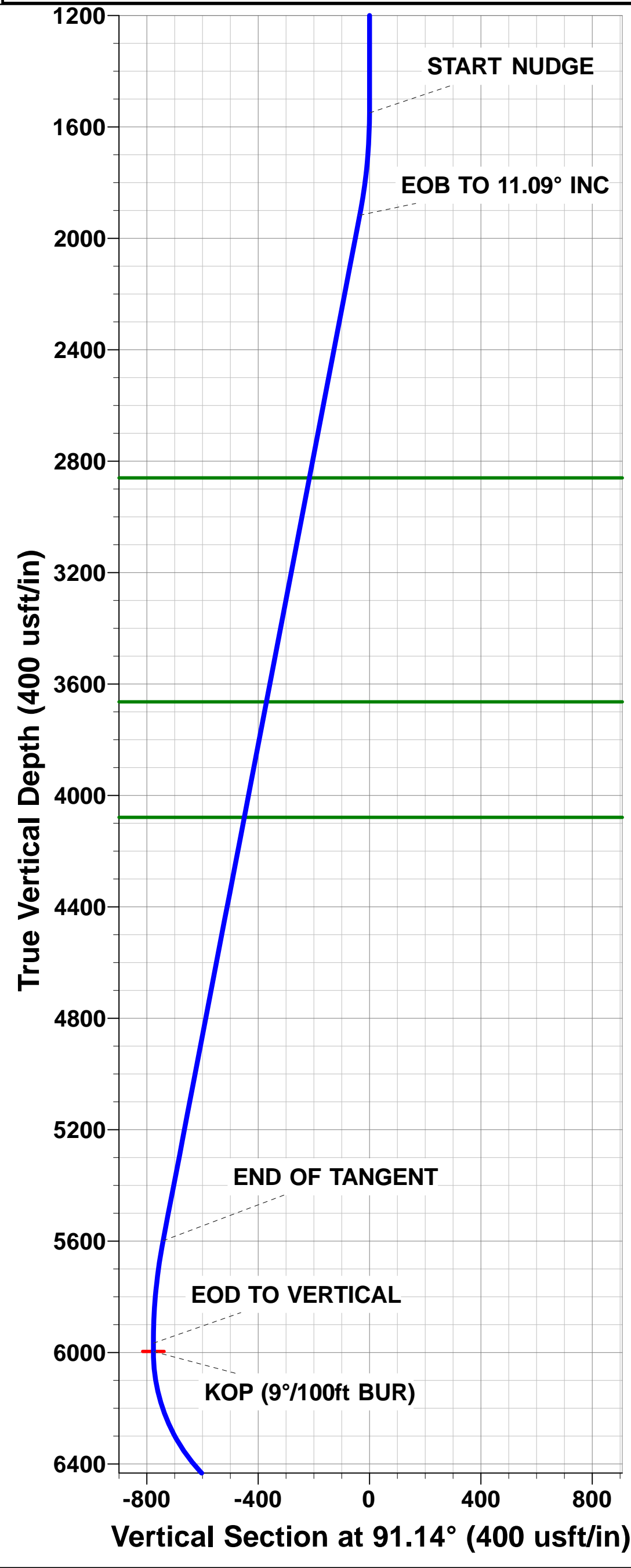
WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - MLD 8	5996.4	-147.5	-779.4	40.303566	-104.999462
7" ICP - MLD 8	6633.0	-139.5	-142.8	40.303588	-104.997180
BHL - MLD 8	6633.0	-84.5	4259.4	40.303738	-104.981397



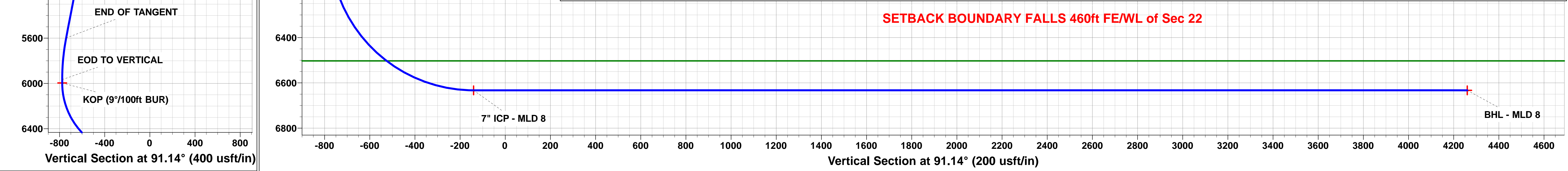
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2860.0	2880.3	PARKMAN
3664.0	3699.6	SUSSEX
4079.0	4122.5	SHANNON
6503.0	6657.0	NIOBRARA

Azimuths to True North
Magnetic North: 8.56°

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



SETBACK BOUNDARY FALLS 460ft FE/WL of Sec 22



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 8
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Site:	SEC. 22 T4N R68W 6th P.M.	North Reference:	True
Well:	MLD 8	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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	SEC. 22 T4N R68W 6th P.M.		
Site Position:		Northing:	1,350,393.80 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 8		
Well Position	+N/-S	3,584.8 usft	Northing: 1,353,976.08 usfi
	+E/-W	-397.5 usft	Easting: 3,140,380.99 usfi
Position Uncertainty	0.0 usft	Wellhead Elevation:	usfi
		Latitude:	40.303971
		Longitude:	-104.996668
		Ground Level:	4,876.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	29/07/2014	8.56	66.83	52,727

Design	PROPOSAL #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	91.14

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	-4,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,550.0	0.00	0.00	1,550.0	-3,350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,919.8	11.09	259.28	1,917.5	-2,982.5	-6.6	-35.1	3.00	3.00	0.00	259.28	
5,671.3	11.09	259.28	5,598.9	698.9	-140.9	-744.3	0.00	0.00	0.00	0.00	
6,041.1	0.00	0.00	5,966.4	1,066.4	-147.5	-779.4	3.00	-3.00	0.00	180.00	
6,071.1	0.00	0.00	5,996.4	1,096.4	-147.5	-779.4	0.00	0.00	0.00	0.00	KOP - MLD 8
7,071.1	90.00	89.28	6,633.0	1,733.0	-139.5	-142.8	9.00	9.00	8.93	89.28	7" ICP - MLD 8
11,473.6	90.00	89.29	6,633.0	1,733.0	-84.5	4,259.4	0.00	0.00	0.00	150.85	BHL - MLD 8

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 8
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Site:	SEC. 22 T4N R68W 6th P.M.	North Reference:	True
Well:	MLD 8	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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	4,900.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,800.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,700.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,600.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,500.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,400.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,300.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,200.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	4,100.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	4,000.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,900.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,800.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,700.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,600.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,500.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,400.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (3°/100ft BUR)										
1,550.0	0.00	0.00	1,550.0	3,350.00	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	1.50	259.28	1,600.0	3,300.01	-0.1	-0.6	-0.6	3.00	3.00	0.00
1,700.0	4.50	259.28	1,699.8	3,200.15	-1.1	-5.8	-5.8	3.00	3.00	0.00
1,800.0	7.50	259.28	1,799.3	3,100.71	-3.0	-16.1	-16.0	3.00	3.00	0.00
1,900.0	10.50	259.28	1,898.0	3,001.96	-5.9	-31.4	-31.3	3.00	3.00	0.00
EOB TO 11.09° INC										
1,919.8	11.09	259.28	1,917.5	2,982.51	-6.6	-35.1	-34.9	3.00	3.00	0.00
2,000.0	11.09	259.28	1,996.2	2,903.81	-9.5	-50.2	-50.0	0.00	0.00	0.00
2,100.0	11.09	259.28	2,094.3	2,805.67	-13.1	-69.1	-68.9	0.00	0.00	0.00
2,200.0	11.09	259.28	2,192.5	2,707.54	-16.7	-88.0	-87.7	0.00	0.00	0.00
2,300.0	11.09	259.28	2,290.6	2,609.41	-20.2	-106.9	-106.5	0.00	0.00	0.00
2,400.0	11.09	259.28	2,388.7	2,511.28	-23.8	-125.9	-125.4	0.00	0.00	0.00
2,500.0	11.09	259.28	2,486.9	2,413.15	-27.4	-144.8	-144.2	0.00	0.00	0.00
2,600.0	11.09	259.28	2,585.0	2,315.02	-31.0	-163.7	-163.0	0.00	0.00	0.00
2,700.0	11.09	259.28	2,683.1	2,216.89	-34.6	-182.6	-181.9	0.00	0.00	0.00
2,800.0	11.09	259.28	2,781.2	2,118.75	-38.1	-201.5	-200.7	0.00	0.00	0.00
PARKMAN										
2,880.3	11.09	259.28	2,860.0	2,040.00	-41.0	-216.7	-215.8	0.00	0.00	0.00
2,900.0	11.09	259.28	2,879.4	2,020.62	-41.7	-220.4	-219.5	0.00	0.00	0.00
3,000.0	11.09	259.28	2,977.5	1,922.49	-45.3	-239.3	-238.3	0.00	0.00	0.00
3,100.0	11.09	259.28	3,075.6	1,824.36	-48.9	-258.2	-257.2	0.00	0.00	0.00
3,200.0	11.09	259.28	3,173.8	1,726.23	-52.4	-277.1	-276.0	0.00	0.00	0.00
3,300.0	11.09	259.28	3,271.9	1,628.10	-56.0	-296.0	-294.8	0.00	0.00	0.00
3,400.0	11.09	259.28	3,370.0	1,529.97	-59.6	-314.9	-313.7	0.00	0.00	0.00
3,500.0	11.09	259.28	3,468.2	1,431.84	-63.2	-333.8	-332.5	0.00	0.00	0.00
3,600.0	11.09	259.28	3,566.3	1,333.70	-66.8	-352.7	-351.3	0.00	0.00	0.00
SUSSEX										
3,699.6	11.09	259.28	3,664.0	1,236.00	-70.3	-371.6	-370.1	0.00	0.00	0.00
3,700.0	11.09	259.28	3,664.4	1,235.57	-70.3	-371.6	-370.2	0.00	0.00	0.00
3,800.0	11.09	259.28	3,762.6	1,137.44	-73.9	-390.5	-389.0	0.00	0.00	0.00
3,900.0	11.09	259.28	3,860.7	1,039.31	-77.5	-409.4	-407.8	0.00	0.00	0.00
4,000.0	11.09	259.28	3,958.8	941.18	-81.1	-428.4	-426.7	0.00	0.00	0.00
4,100.0	11.09	259.28	4,057.0	843.05	-84.6	-447.3	-445.5	0.00	0.00	0.00
SHANNON										
4,122.5	11.09	259.28	4,079.0	821.00	-85.4	-451.5	-449.7	0.00	0.00	0.00
4,200.0	11.09	259.28	4,155.1	744.92	-88.2	-466.2	-464.3	0.00	0.00	0.00
4,300.0	11.09	259.28	4,253.2	646.78	-91.8	-485.1	-483.2	0.00	0.00	0.00

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Site:	SEC. 22 T4N R68W 6th P.M.	North Reference:	True
Well:	MLD 8	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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	11.09	259.28	4,351.3	548.65	-95.4	-504.0	-502.0	0.00	0.00	0.00
4,500.0	11.09	259.28	4,449.5	450.52	-99.0	-522.9	-520.8	0.00	0.00	0.00
4,600.0	11.09	259.28	4,547.6	352.39	-102.5	-541.8	-539.6	0.00	0.00	0.00
4,700.0	11.09	259.28	4,645.7	254.26	-106.1	-560.7	-558.5	0.00	0.00	0.00
4,800.0	11.09	259.28	4,743.9	156.13	-109.7	-579.6	-577.3	0.00	0.00	0.00
4,900.0	11.09	259.28	4,842.0	58.00	-113.3	-598.5	-596.1	0.00	0.00	0.00
5,000.0	11.09	259.28	4,940.1	-40.13	-116.8	-617.4	-615.0	0.00	0.00	0.00
5,100.0	11.09	259.28	5,038.3	-138.27	-120.4	-636.3	-633.8	0.00	0.00	0.00
5,200.0	11.09	259.28	5,136.4	-236.40	-124.0	-655.2	-652.6	0.00	0.00	0.00
5,300.0	11.09	259.28	5,234.5	-334.53	-127.6	-674.1	-671.5	0.00	0.00	0.00
5,400.0	11.09	259.28	5,332.7	-432.66	-131.2	-693.0	-690.3	0.00	0.00	0.00
5,500.0	11.09	259.28	5,430.8	-530.79	-134.7	-711.9	-709.1	0.00	0.00	0.00
5,600.0	11.09	259.28	5,528.9	-628.92	-138.3	-730.8	-728.0	0.00	0.00	0.00
END OF TANGENT										
5,671.3	11.09	259.28	5,598.9	-698.91	-140.9	-744.3	-741.4	0.00	0.00	0.00
5,700.0	10.23	259.28	5,627.1	-727.09	-141.9	-749.5	-746.6	3.00	-3.00	0.00
5,800.0	7.23	259.28	5,725.9	-825.92	-144.7	-764.5	-761.4	3.00	-3.00	0.00
5,900.0	4.23	259.28	5,825.4	-925.41	-146.5	-774.3	-771.2	3.00	-3.00	0.00
6,000.0	1.23	259.28	5,925.3	-1,025.29	-147.4	-779.0	-775.9	3.00	-3.00	0.00
EOD TO VERTICAL										
6,041.1	0.00	0.00	5,966.4	-1,066.40	-147.5	-779.4	-776.3	3.00	-3.00	0.00
KOP (9°/100ft BUR)										
6,071.1	0.00	0.00	5,996.4	-1,096.40	-147.5	-779.4	-776.3	0.00	0.00	0.00
6,100.0	2.60	89.28	6,025.3	-1,125.27	-147.5	-778.7	-775.7	9.00	9.00	0.00
6,200.0	11.60	89.28	6,124.4	-1,224.41	-147.3	-766.4	-763.3	9.00	9.00	0.00
6,300.0	20.60	89.28	6,220.4	-1,320.38	-147.0	-738.7	-735.6	9.00	9.00	0.00
6,400.0	29.60	89.28	6,310.8	-1,410.85	-146.5	-696.3	-693.3	9.00	9.00	0.00
6,500.0	38.60	89.28	6,393.6	-1,493.57	-145.8	-640.3	-637.3	9.00	9.00	0.00
6,600.0	47.60	89.28	6,466.5	-1,566.51	-144.9	-572.1	-569.1	9.00	9.00	0.00
NIORARA										
6,657.0	52.73	89.28	6,503.0	-1,603.00	-144.4	-528.3	-525.4	9.00	9.00	0.00
6,700.0	56.60	89.28	6,527.9	-1,627.87	-143.9	-493.2	-490.3	9.00	9.00	0.00
6,800.0	65.60	89.28	6,576.1	-1,676.15	-142.8	-405.8	-402.9	9.00	9.00	0.00
6,900.0	74.60	89.28	6,610.1	-1,710.15	-141.6	-311.9	-309.0	9.00	9.00	0.00
7,000.0	83.60	89.28	6,629.0	-1,729.04	-140.4	-213.8	-211.0	9.00	9.00	0.00
7" ICP - MLD 8										
7,071.1	90.00	89.28	6,633.0	-1,733.00	-139.5	-142.8	-140.0	9.00	9.00	0.00
7,100.0	90.00	89.28	6,633.0	-1,733.00	-139.2	-113.9	-111.2	0.00	0.00	0.00
7,200.0	90.00	89.28	6,633.0	-1,732.99	-137.9	-13.9	-11.2	0.00	0.00	0.00
7,300.0	90.00	89.28	6,633.0	-1,732.99	-136.7	86.0	88.7	0.00	0.00	0.00
7,400.0	90.00	89.28	6,633.0	-1,732.98	-135.4	186.0	188.7	0.00	0.00	0.00
7,500.0	90.00	89.28	6,633.0	-1,732.97	-134.1	286.0	288.6	0.00	0.00	0.00
7,600.0	90.00	89.28	6,633.0	-1,732.97	-132.9	386.0	388.6	0.00	0.00	0.00
7,700.0	90.00	89.28	6,633.0	-1,732.96	-131.6	486.0	488.5	0.00	0.00	0.00
7,800.0	90.00	89.28	6,633.0	-1,732.96	-130.4	586.0	588.5	0.00	0.00	0.00
7,900.0	90.00	89.28	6,633.0	-1,732.95	-129.1	686.0	688.4	0.00	0.00	0.00
8,000.0	90.00	89.28	6,632.9	-1,732.95	-127.9	786.0	788.4	0.00	0.00	0.00
8,100.0	90.00	89.28	6,632.9	-1,732.95	-126.6	886.0	888.3	0.00	0.00	0.00
8,200.0	90.00	89.28	6,632.9	-1,732.94	-125.4	986.0	988.3	0.00	0.00	0.00
8,300.0	90.00	89.28	6,632.9	-1,732.94	-124.1	1,086.0	1,088.2	0.00	0.00	0.00
8,400.0	90.00	89.28	6,632.9	-1,732.94	-122.9	1,186.0	1,188.2	0.00	0.00	0.00
8,500.0	90.00	89.28	6,632.9	-1,732.93	-121.6	1,286.0	1,288.1	0.00	0.00	0.00
8,600.0	90.00	89.28	6,632.9	-1,732.93	-120.4	1,385.9	1,388.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 8
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Site:	SEC. 22 T4N R68W 6th P.M.	North Reference:	True
Well:	MLD 8	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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	6,632.9	-1,732.93	-119.1	1,485.9	1,488.0	0.00	0.00	0.00
8,800.0	90.00	89.28	6,632.9	-1,732.93	-117.9	1,585.9	1,588.0	0.00	0.00	0.00
8,900.0	90.00	89.28	6,632.9	-1,732.93	-116.6	1,685.9	1,687.9	0.00	0.00	0.00
9,000.0	90.00	89.28	6,632.9	-1,732.93	-115.4	1,785.9	1,787.9	0.00	0.00	0.00
9,100.0	90.00	89.28	6,632.9	-1,732.92	-114.1	1,885.9	1,887.8	0.00	0.00	0.00
9,200.0	90.00	89.28	6,632.9	-1,732.92	-112.9	1,985.9	1,987.7	0.00	0.00	0.00
9,300.0	90.00	89.28	6,632.9	-1,732.92	-111.6	2,085.9	2,087.7	0.00	0.00	0.00
9,400.0	90.00	89.28	6,632.9	-1,732.92	-110.4	2,185.9	2,187.6	0.00	0.00	0.00
9,500.0	90.00	89.28	6,632.9	-1,732.93	-109.1	2,285.9	2,287.6	0.00	0.00	0.00
9,600.0	90.00	89.28	6,632.9	-1,732.93	-107.9	2,385.9	2,387.5	0.00	0.00	0.00
9,700.0	90.00	89.28	6,632.9	-1,732.93	-106.6	2,485.9	2,487.5	0.00	0.00	0.00
9,800.0	90.00	89.28	6,632.9	-1,732.93	-105.4	2,585.9	2,587.4	0.00	0.00	0.00
9,900.0	90.00	89.28	6,632.9	-1,732.93	-104.1	2,685.8	2,687.4	0.00	0.00	0.00
10,000.0	90.00	89.28	6,632.9	-1,732.93	-102.9	2,785.8	2,787.3	0.00	0.00	0.00
10,100.0	90.00	89.28	6,632.9	-1,732.93	-101.6	2,885.8	2,887.3	0.00	0.00	0.00
10,200.0	90.00	89.28	6,632.9	-1,732.94	-100.4	2,985.8	2,987.2	0.00	0.00	0.00
10,300.0	90.00	89.29	6,632.9	-1,732.94	-99.1	3,085.8	3,087.2	0.00	0.00	0.00
10,400.0	90.00	89.29	6,632.9	-1,732.94	-97.9	3,185.8	3,187.1	0.00	0.00	0.00
10,500.0	90.00	89.29	6,632.9	-1,732.95	-96.6	3,285.8	3,287.1	0.00	0.00	0.00
10,600.0	90.00	89.29	6,633.0	-1,732.95	-95.4	3,385.8	3,387.0	0.00	0.00	0.00
10,700.0	90.00	89.29	6,633.0	-1,732.96	-94.2	3,485.8	3,487.0	0.00	0.00	0.00
10,800.0	90.00	89.29	6,633.0	-1,732.96	-92.9	3,585.8	3,586.9	0.00	0.00	0.00
10,900.0	90.00	89.29	6,633.0	-1,732.97	-91.7	3,685.8	3,686.9	0.00	0.00	0.00
11,000.0	90.00	89.29	6,633.0	-1,732.97	-90.4	3,785.8	3,786.8	0.00	0.00	0.00
11,100.0	90.00	89.29	6,633.0	-1,732.98	-89.2	3,885.8	3,886.8	0.00	0.00	0.00
11,200.0	90.00	89.29	6,633.0	-1,732.98	-87.9	3,985.7	3,986.7	0.00	0.00	0.00
11,300.0	90.00	89.29	6,633.0	-1,732.99	-86.7	4,085.7	4,086.6	0.00	0.00	0.00
11,400.0	90.00	89.29	6,633.0	-1,733.00	-85.4	4,185.7	4,186.6	0.00	0.00	0.00
BHL - MLD 8										
11,473.6	90.00	89.29	6,633.0	-1,733.00	-84.5	4,259.4	4,260.2	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,880.3	2,860.0	PARKMAN		0.00	
3,699.6	3,664.0	SUSSEX		0.00	
4,122.5	4,079.0	SHANNON		0.00	
6,657.0	6,503.0	NIOBRARA		0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 8
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4900.0usft (Original Well Elev)
Site:	SEC. 22 T4N R68W 6th P.M.	North Reference:	True
Well:	MLD 8	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,550.0	1,550.0	0.0	0.0	START NUDGE (3°/100ft BUR)
1,919.8	1,917.5	-6.6	-35.1	EOB TO 11.09° INC
5,671.3	5,598.9	-140.9	-744.3	END OF TANGENT
6,041.1	5,966.4	-147.5	-779.4	EOD TO VERTICAL
6,071.1	5,996.4	-147.5	-779.4	KOP (9°/100ft BUR)
7,071.1	6,633.0	-139.5	-142.8	7" ICP - MLD 8
11,473.6	6,633.0	-84.5	4,259.4	BHL - MLD 8