

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

SEC. 22 T4N R68W 6th P.M.

MLD 4

ORIGINAL WELLBORE

29 July, 2014

Plan: PROPOSAL #1





Project: WELD COUNTY, COLORADO (NAD 83)
Site: SEC. 22 T4N R68W 6th P.M.
Well: MLD 4
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

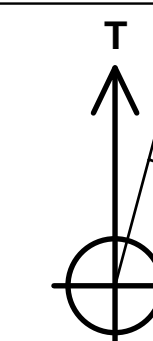
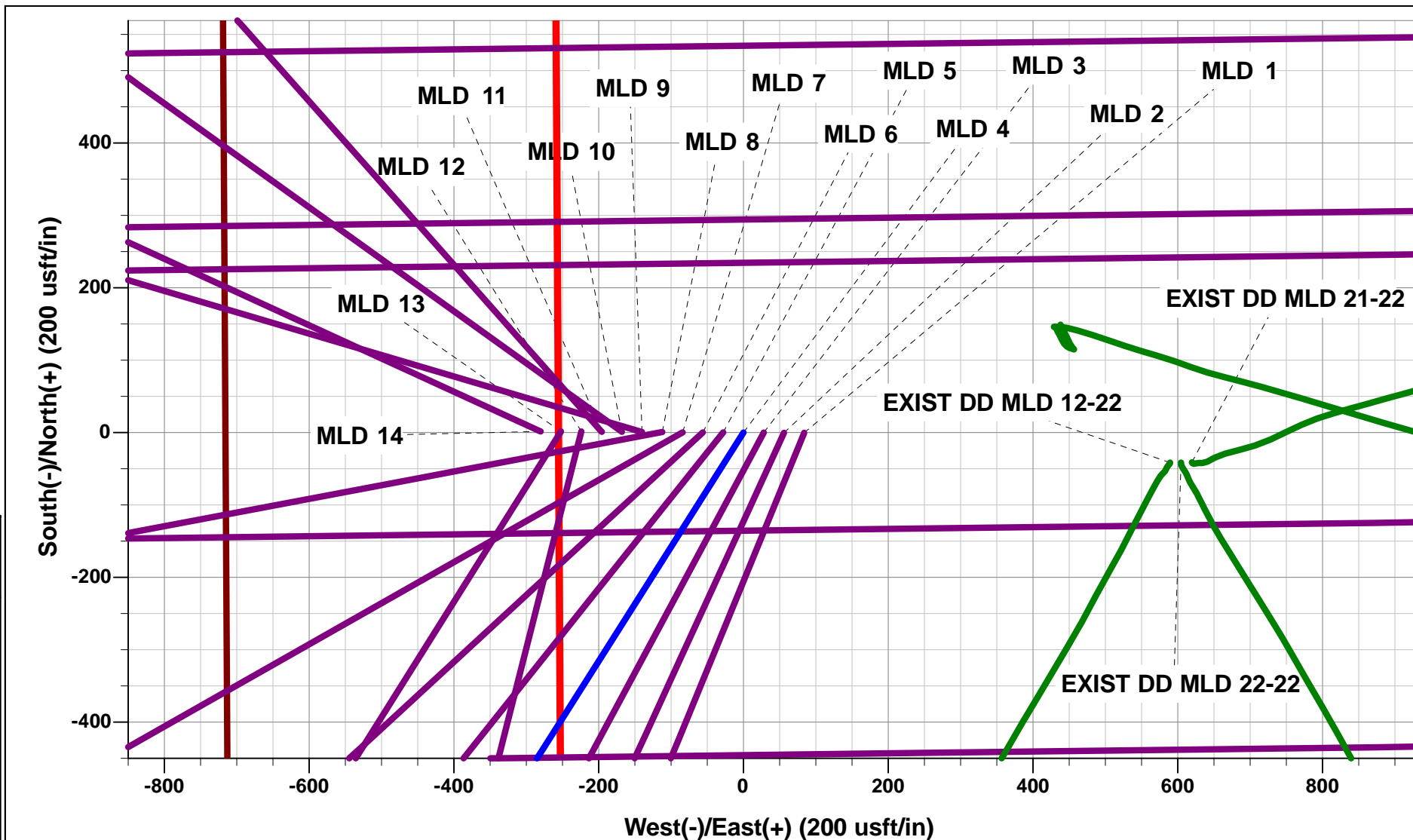
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Dep	Annotation
1950.0	1950.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (3°/100ft BUR)
2860.8	2899.4	28.48	212.34	-195.3	-123.7	-58.0	231.1	EOB TO 28.48° INC
5055.5	5396.4	28.48	212.34	-1201.3	-760.6	-356.5	1421.9	END OF TANGENT
5966.3	6345.7	0.00	0.00	-1396.6	-884.3	-414.5	1653.0	EOD TO VERTICAL
5996.3	6375.7	0.00	0.00	-1396.6	-884.3	-414.5	1653.0	KOP (9°/100ft BUR)
6633.0	7375.8	90.00	89.29	-1388.7	-247.7	189.1	2289.7	7" ICP - MLD 4
6633.0	11774.4	90.00	89.29	-1334.1	4150.5	4359.6	6688.2	BHL - MLD 4

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - MLD 4	5996.3	-1396.6	-884.3	40.300135	-104.999436
7" ICP - MLD 4	6633.0	-1388.7	-247.7	40.300157	-104.997154
BHL - MLD 4	6633.0	-1334.1	4150.5	40.300306	-104.981386

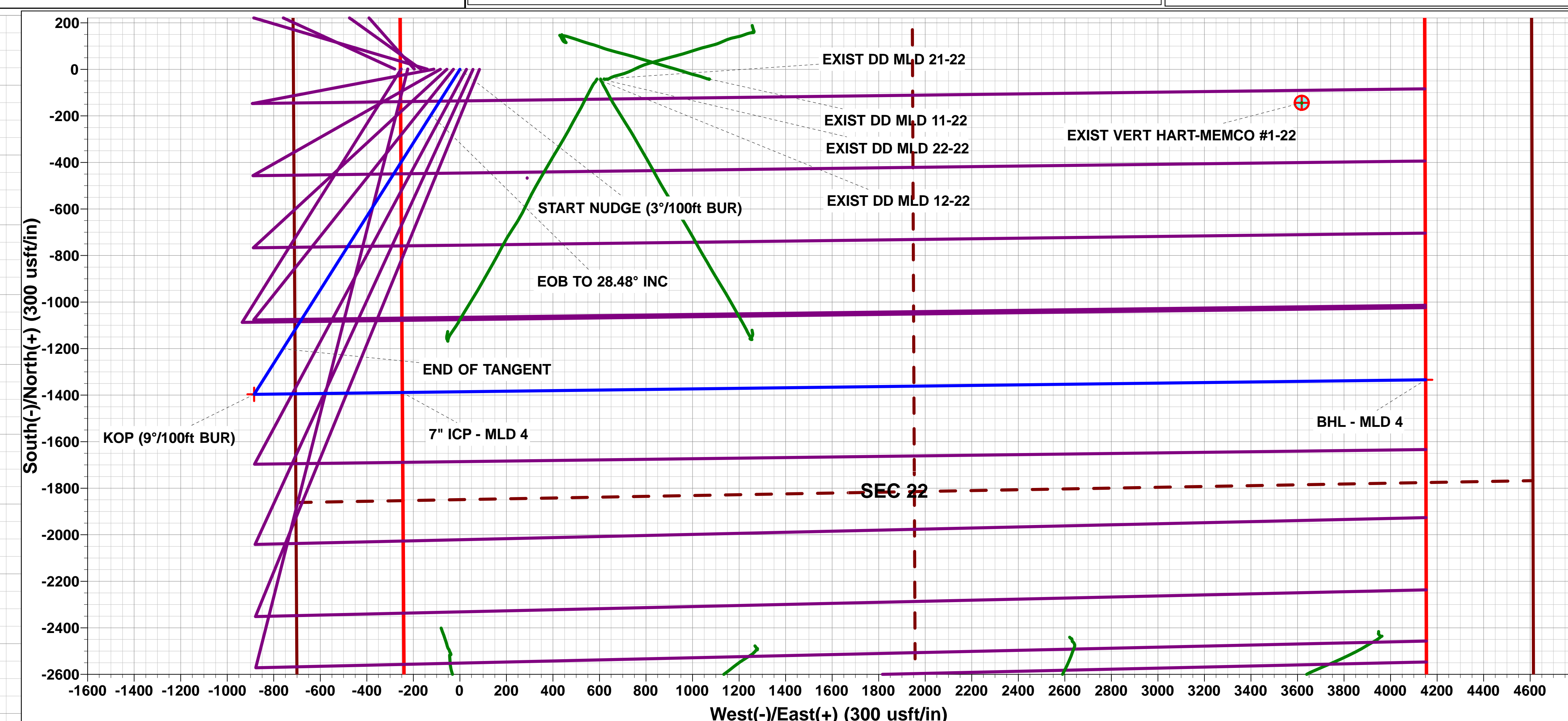
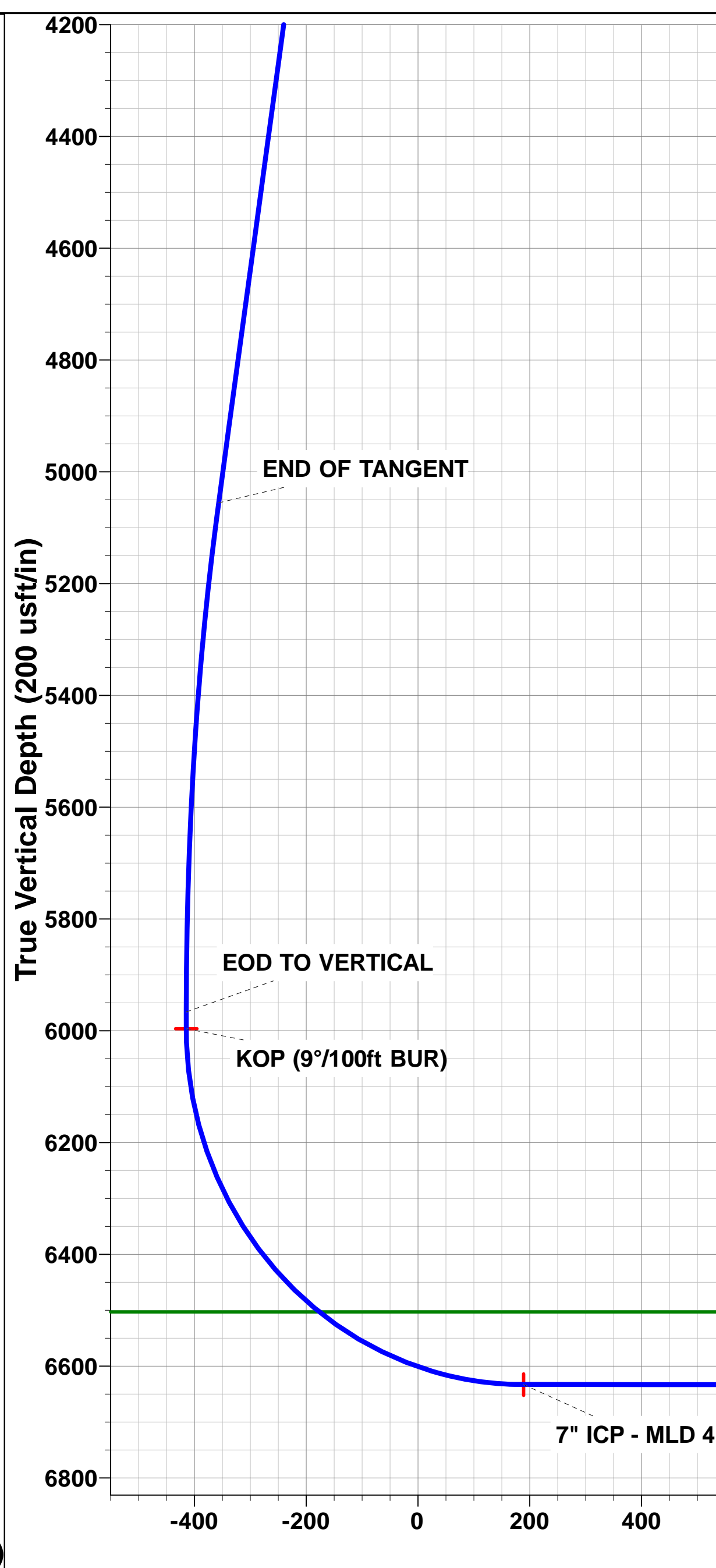
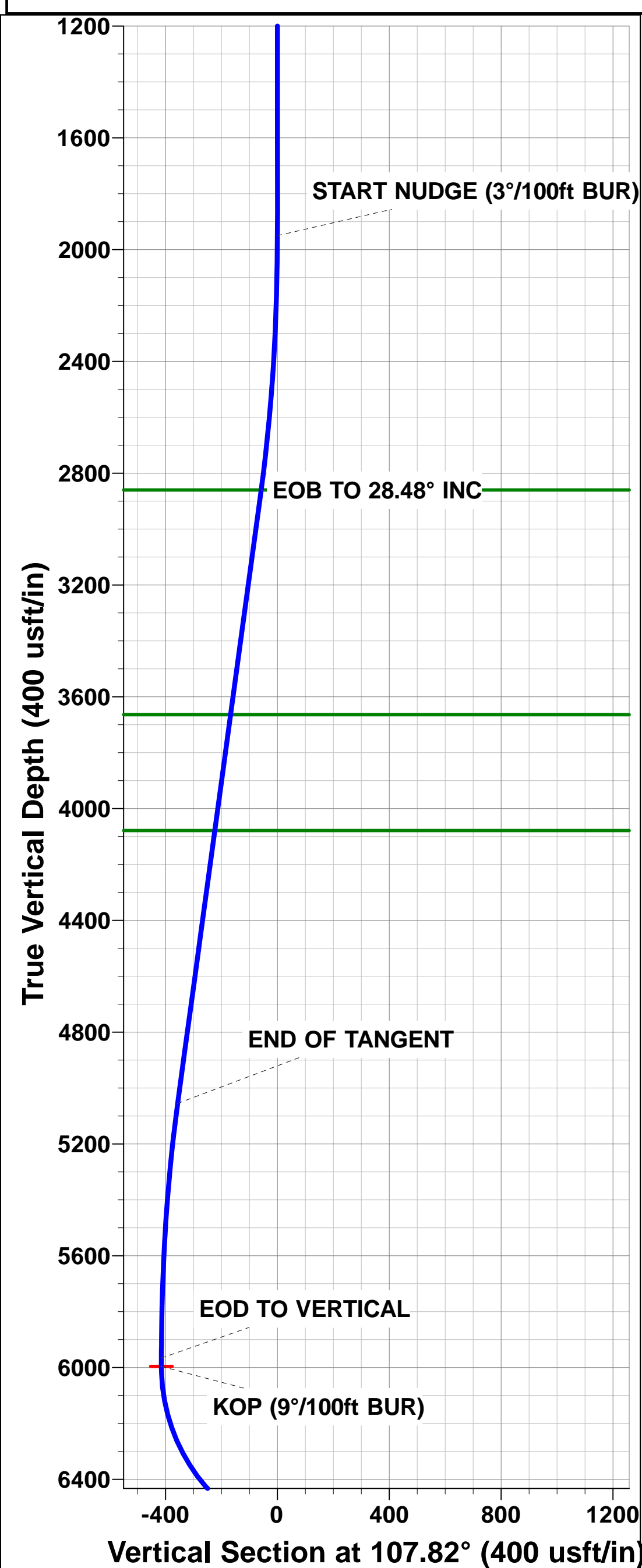
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2860.0	2898.5	PARKMAN
3664.0	3813.2	SUSSEX
4079.0	4285.4	SHANNON
6503.0	6961.7	NIOBRARA

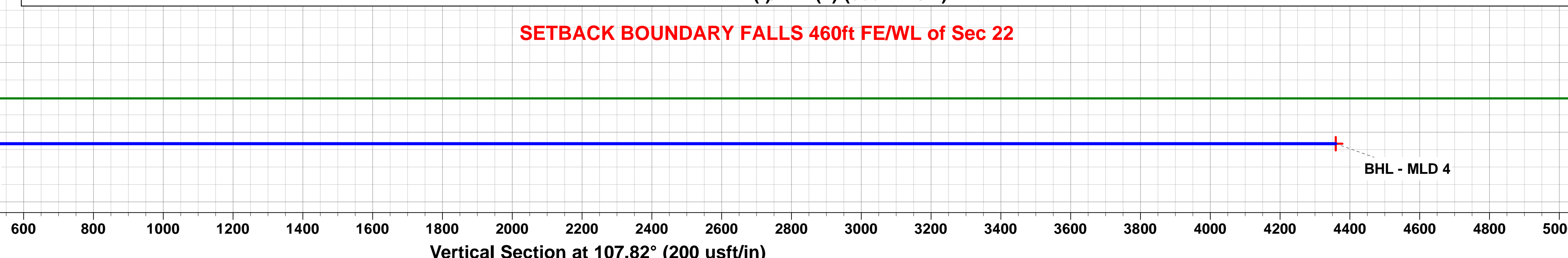


Azimuths to True North
Magnetic North: 8.56°

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 4
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 4	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 4		
Well Position	+N/-S	3,584.0 usft	Northing: 1,353,975.98 usfi
	+E/-W	-285.3 usft	Easting: 3,140,493.11 usfi
Position Uncertainty	0.0 usft	Wellhead Elevation:	usfi
		Latitude:	40.303969
		Longitude:	-104.996266
		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	107.82

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	
1,950.0	0.00	0.00	1,950.0	-2,950.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,899.4	28.48	212.34	2,860.8	-2,039.2	-195.3	-123.7	3.00	3.00	0.00	212.34	
5,396.4	28.48	212.34	5,055.5	155.5	-1,201.3	-760.6	0.00	0.00	0.00	0.00	
6,345.7	0.00	0.00	5,966.3	1,066.3	-1,396.6	-884.3	3.00	-3.00	0.00	180.00	
6,375.7	0.00	0.00	5,996.3	1,096.3	-1,396.6	-884.3	0.00	0.00	0.00	0.00	KOP - MLD 4
7,375.8	90.00	89.29	6,633.0	1,733.0	-1,388.7	-247.7	9.00	9.00	8.93	89.29	7" ICP - MLD 4
11,774.4	90.00	89.29	6,633.0	1,733.0	-1,334.1	4,150.5	0.00	0.00	0.00	-21.03	BHL - MLD 4

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 4
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 4	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
1,600.0	0.00	0.00	1,600.0	3,300.00	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	3,200.00	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	3,100.00	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	3,000.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (3°/100ft BUR)										
1,950.0	0.00	0.00	1,950.0	2,950.00	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	1.50	212.34	2,000.0	2,900.01	-0.6	-0.4	-0.2	3.00	3.00	0.00
2,100.0	4.50	212.34	2,099.8	2,800.15	-5.0	-3.1	-1.5	3.00	3.00	0.00
2,200.0	7.50	212.34	2,199.3	2,700.71	-13.8	-8.7	-4.1	3.00	3.00	0.00
2,300.0	10.50	212.34	2,298.0	2,601.96	-27.0	-17.1	-8.0	3.00	3.00	0.00
2,400.0	13.50	212.34	2,395.8	2,504.15	-44.6	-28.2	-13.2	3.00	3.00	0.00
2,500.0	16.50	212.34	2,492.4	2,407.57	-66.4	-42.1	-19.7	3.00	3.00	0.00
2,600.0	19.50	212.34	2,587.5	2,312.48	-92.6	-58.6	-27.5	3.00	3.00	0.00
2,700.0	22.50	212.34	2,680.9	2,219.13	-122.8	-77.8	-36.5	3.00	3.00	0.00
2,800.0	25.50	212.34	2,772.2	2,127.78	-157.2	-99.5	-46.7	3.00	3.00	0.00
PARKMAN										
2,898.5	28.46	212.34	2,860.0	2,040.00	-194.9	-123.4	-57.9	3.00	3.00	0.00
EOB TO 28.48° INC										
2,899.4	28.48	212.34	2,860.8	2,039.25	-195.3	-123.7	-58.0	3.00	3.00	0.00
2,900.0	28.48	212.34	2,861.3	2,038.69	-195.5	-123.8	-58.0	0.00	0.00	0.00
3,000.0	28.48	212.34	2,949.2	1,950.80	-235.8	-149.3	-70.0	0.00	0.00	0.00
3,100.0	28.48	212.34	3,037.1	1,862.90	-276.1	-174.8	-82.0	0.00	0.00	0.00
3,200.0	28.48	212.34	3,125.0	1,775.00	-316.4	-200.3	-93.9	0.00	0.00	0.00
3,300.0	28.48	212.34	3,212.9	1,687.10	-356.7	-225.9	-105.9	0.00	0.00	0.00
3,400.0	28.48	212.34	3,300.8	1,599.21	-397.0	-251.4	-117.8	0.00	0.00	0.00
3,500.0	28.48	212.34	3,388.7	1,511.31	-437.3	-276.9	-129.8	0.00	0.00	0.00
3,600.0	28.48	212.34	3,476.6	1,423.41	-477.6	-302.4	-141.7	0.00	0.00	0.00
3,700.0	28.48	212.34	3,564.5	1,335.51	-517.9	-327.9	-153.7	0.00	0.00	0.00
3,800.0	28.48	212.34	3,652.4	1,247.62	-558.1	-353.4	-165.7	0.00	0.00	0.00
SUSSEX										
3,813.2	28.48	212.34	3,664.0	1,236.00	-563.5	-356.8	-167.2	0.00	0.00	0.00
3,900.0	28.48	212.34	3,740.3	1,159.72	-598.4	-378.9	-177.6	0.00	0.00	0.00
4,000.0	28.48	212.34	3,828.2	1,071.82	-638.7	-404.4	-189.6	0.00	0.00	0.00
4,100.0	28.48	212.34	3,916.1	983.92	-679.0	-429.9	-201.5	0.00	0.00	0.00
4,200.0	28.48	212.34	4,004.0	896.03	-719.3	-455.4	-213.5	0.00	0.00	0.00
SHANNON										
4,285.4	28.48	212.34	4,079.0	821.00	-753.7	-477.2	-223.7	0.00	0.00	0.00
4,300.0	28.48	212.34	4,091.9	808.13	-759.6	-481.0	-225.4	0.00	0.00	0.00

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Well:	MLD 4	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	28.48	212.34	4,179.8	720.23	-799.9	-506.5	-237.4	0.00	0.00	0.00
4,500.0	28.48	212.34	4,267.7	632.33	-840.2	-532.0	-249.4	0.00	0.00	0.00
4,600.0	28.48	212.34	4,355.6	544.44	-880.5	-557.5	-261.3	0.00	0.00	0.00
4,700.0	28.48	212.34	4,443.5	456.54	-920.8	-583.0	-273.3	0.00	0.00	0.00
4,800.0	28.48	212.34	4,531.4	368.64	-961.0	-608.5	-285.2	0.00	0.00	0.00
4,900.0	28.48	212.34	4,619.3	280.74	-1,001.3	-634.0	-297.2	0.00	0.00	0.00
5,000.0	28.48	212.34	4,707.2	192.85	-1,041.6	-659.5	-309.2	0.00	0.00	0.00
5,100.0	28.48	212.34	4,795.1	104.95	-1,081.9	-685.0	-321.1	0.00	0.00	0.00
5,200.0	28.48	212.34	4,882.9	17.05	-1,122.2	-710.6	-333.1	0.00	0.00	0.00
5,300.0	28.48	212.34	4,970.8	-70.85	-1,162.5	-736.1	-345.0	0.00	0.00	0.00
END OF TANGENT										
5,396.4	28.48	212.34	5,055.5	-155.55	-1,201.3	-760.6	-356.5	0.00	0.00	0.00
5,400.0	28.37	212.34	5,058.7	-158.74	-1,202.8	-761.6	-357.0	3.00	-3.00	0.00
5,500.0	25.37	212.34	5,147.9	-247.94	-1,241.0	-785.8	-368.3	3.00	-3.00	0.00
5,600.0	22.37	212.34	5,239.4	-339.37	-1,275.1	-807.4	-378.5	3.00	-3.00	0.00
5,700.0	19.37	212.34	5,332.8	-432.80	-1,305.2	-826.5	-387.4	3.00	-3.00	0.00
5,800.0	16.37	212.34	5,428.0	-527.96	-1,331.2	-842.9	-395.1	3.00	-3.00	0.00
5,900.0	13.37	212.34	5,524.6	-624.60	-1,352.9	-856.6	-401.5	3.00	-3.00	0.00
6,000.0	10.37	212.34	5,622.5	-722.45	-1,370.2	-867.6	-406.7	3.00	-3.00	0.00
6,100.0	7.37	212.34	5,721.2	-821.24	-1,383.3	-875.9	-410.6	3.00	-3.00	0.00
6,200.0	4.37	212.34	5,820.7	-920.71	-1,391.9	-881.3	-413.1	3.00	-3.00	0.00
6,300.0	1.37	212.34	5,920.6	-1,020.57	-1,396.1	-884.0	-414.4	3.00	-3.00	0.00
EOD TO VERTICAL										
6,345.7	0.00	0.00	5,966.3	-1,066.30	-1,396.6	-884.3	-414.5	3.00	-3.00	0.00
KOP (9°/100ft BUR)										
6,375.7	0.00	0.00	5,996.3	-1,096.30	-1,396.6	-884.3	-414.5	0.00	0.00	0.00
6,400.0	2.18	89.29	6,020.6	-1,120.56	-1,396.6	-883.8	-414.1	9.00	9.00	0.00
6,500.0	11.18	89.29	6,119.8	-1,219.78	-1,396.5	-872.2	-403.0	9.00	9.00	0.00
6,600.0	20.18	89.29	6,216.0	-1,315.96	-1,396.1	-845.2	-377.4	9.00	9.00	0.00
6,700.0	29.18	89.29	6,306.7	-1,406.73	-1,395.6	-803.5	-337.9	9.00	9.00	0.00
6,800.0	38.18	89.29	6,389.9	-1,489.86	-1,394.9	-748.1	-285.4	9.00	9.00	0.00
6,900.0	47.18	89.29	6,463.3	-1,563.30	-1,394.1	-680.4	-221.2	9.00	9.00	0.00
NIOBRARA										
6,961.7	52.73	89.29	6,503.0	-1,603.00	-1,393.5	-633.2	-176.4	9.00	9.00	0.00
7,000.0	56.18	89.29	6,525.2	-1,625.24	-1,393.1	-602.0	-146.9	9.00	9.00	0.00
7,100.0	65.18	89.29	6,574.2	-1,674.17	-1,392.0	-514.9	-64.3	9.00	9.00	0.00
7,200.0	74.17	89.29	6,608.9	-1,708.87	-1,390.9	-421.3	24.6	9.00	9.00	0.00
7,300.0	83.17	89.29	6,628.5	-1,728.49	-1,389.6	-323.3	117.4	9.00	9.00	0.00
7" ICP - MLD 4										
7,375.8	90.00	89.29	6,633.0	-1,733.00	-1,388.7	-247.7	189.1	9.00	9.00	0.00
7,400.0	90.00	89.29	6,633.0	-1,733.00	-1,388.4	-223.5	212.1	0.00	0.00	0.00
7,500.0	90.00	89.29	6,633.0	-1,733.01	-1,387.2	-123.5	306.9	0.00	0.00	0.00
7,600.0	90.00	89.29	6,633.0	-1,733.01	-1,385.9	-23.5	401.7	0.00	0.00	0.00
7,700.0	90.00	89.29	6,633.0	-1,733.02	-1,384.7	76.5	496.5	0.00	0.00	0.00
7,800.0	90.00	89.29	6,633.0	-1,733.03	-1,383.5	176.5	591.3	0.00	0.00	0.00
7,900.0	90.00	89.29	6,633.0	-1,733.03	-1,382.2	276.5	686.2	0.00	0.00	0.00
8,000.0	90.00	89.29	6,633.0	-1,733.04	-1,381.0	376.4	781.0	0.00	0.00	0.00
8,100.0	90.00	89.29	6,633.0	-1,733.04	-1,379.7	476.4	875.8	0.00	0.00	0.00
8,200.0	90.00	89.29	6,633.0	-1,733.05	-1,378.5	576.4	970.6	0.00	0.00	0.00
8,300.0	90.00	89.29	6,633.0	-1,733.05	-1,377.3	676.4	1,065.4	0.00	0.00	0.00
8,400.0	90.00	89.29	6,633.1	-1,733.05	-1,376.0	776.4	1,160.2	0.00	0.00	0.00
8,500.0	90.00	89.29	6,633.1	-1,733.06	-1,374.8	876.4	1,255.1	0.00	0.00	0.00
8,600.0	90.00	89.29	6,633.1	-1,733.06	-1,373.5	976.4	1,349.9	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 4
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 4	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	89.29	6,633.1	-1,733.06	-1,372.3	1,076.4	1,444.7	0.00	0.00	0.00
8,800.0	90.00	89.29	6,633.1	-1,733.07	-1,371.0	1,176.4	1,539.5	0.00	0.00	0.00
8,900.0	90.00	89.29	6,633.1	-1,733.07	-1,369.8	1,276.4	1,634.3	0.00	0.00	0.00
9,000.0	90.00	89.29	6,633.1	-1,733.07	-1,368.6	1,376.4	1,729.1	0.00	0.00	0.00
9,100.0	90.00	89.29	6,633.1	-1,733.07	-1,367.3	1,476.4	1,823.9	0.00	0.00	0.00
9,200.0	90.00	89.29	6,633.1	-1,733.07	-1,366.1	1,576.4	1,918.8	0.00	0.00	0.00
9,300.0	90.00	89.29	6,633.1	-1,733.07	-1,364.8	1,676.3	2,013.6	0.00	0.00	0.00
9,400.0	90.00	89.29	6,633.1	-1,733.07	-1,363.6	1,776.3	2,108.4	0.00	0.00	0.00
9,500.0	90.00	89.29	6,633.1	-1,733.07	-1,362.4	1,876.3	2,203.2	0.00	0.00	0.00
9,600.0	90.00	89.29	6,633.1	-1,733.07	-1,361.1	1,976.3	2,298.0	0.00	0.00	0.00
9,700.0	90.00	89.29	6,633.1	-1,733.07	-1,359.9	2,076.3	2,392.8	0.00	0.00	0.00
9,800.0	90.00	89.29	6,633.1	-1,733.07	-1,358.6	2,176.3	2,487.7	0.00	0.00	0.00
9,900.0	90.00	89.29	6,633.1	-1,733.07	-1,357.4	2,276.3	2,582.5	0.00	0.00	0.00
10,000.0	90.00	89.29	6,633.1	-1,733.07	-1,356.1	2,376.3	2,677.3	0.00	0.00	0.00
10,100.0	90.00	89.29	6,633.1	-1,733.07	-1,354.9	2,476.3	2,772.1	0.00	0.00	0.00
10,200.0	90.00	89.29	6,633.1	-1,733.07	-1,353.7	2,576.3	2,866.9	0.00	0.00	0.00
10,300.0	90.00	89.29	6,633.1	-1,733.07	-1,352.4	2,676.3	2,961.7	0.00	0.00	0.00
10,400.0	90.00	89.29	6,633.1	-1,733.06	-1,351.2	2,776.3	3,056.5	0.00	0.00	0.00
10,500.0	90.00	89.29	6,633.1	-1,733.06	-1,349.9	2,876.2	3,151.4	0.00	0.00	0.00
10,600.0	90.00	89.29	6,633.1	-1,733.06	-1,348.7	2,976.2	3,246.2	0.00	0.00	0.00
10,700.0	90.00	89.29	6,633.1	-1,733.05	-1,347.4	3,076.2	3,341.0	0.00	0.00	0.00
10,800.0	90.00	89.29	6,633.1	-1,733.05	-1,346.2	3,176.2	3,435.8	0.00	0.00	0.00
10,900.0	90.00	89.29	6,633.0	-1,733.05	-1,345.0	3,276.2	3,530.6	0.00	0.00	0.00
11,000.0	90.00	89.29	6,633.0	-1,733.04	-1,343.7	3,376.2	3,625.4	0.00	0.00	0.00
11,100.0	90.00	89.29	6,633.0	-1,733.04	-1,342.5	3,476.2	3,720.3	0.00	0.00	0.00
11,200.0	90.00	89.29	6,633.0	-1,733.03	-1,341.2	3,576.2	3,815.1	0.00	0.00	0.00
11,300.0	90.00	89.29	6,633.0	-1,733.03	-1,340.0	3,676.2	3,909.9	0.00	0.00	0.00
11,400.0	90.00	89.29	6,633.0	-1,733.02	-1,338.7	3,776.2	4,004.7	0.00	0.00	0.00
11,500.0	90.00	89.29	6,633.0	-1,733.02	-1,337.5	3,876.2	4,099.5	0.00	0.00	0.00
11,600.0	90.00	89.29	6,633.0	-1,733.01	-1,336.3	3,976.2	4,194.3	0.00	0.00	0.00
11,700.0	90.00	89.29	6,633.0	-1,733.00	-1,335.0	4,076.2	4,289.1	0.00	0.00	0.00
BHL - MLD 4										
11,774.4	90.00	89.29	6,633.0	-1,733.00	-1,334.1	4,150.5	4,359.6	0.00	0.00	0.00

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,898.5	2,860.0	PARKMAN		0.00		
3,813.2	3,664.0	SUSSEX		0.00		
4,285.4	4,079.0	SHANNON		0.00		
6,961.7	6,503.0	NIOBRARA		0.00		

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MLD 4
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 4	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)	
1,950.0	1,950.0	0.0	0.0	START NUDGE (3°/100ft BUR)
2,899.4	2,860.8	-195.3	-123.7	EOB TO 28.48° INC
5,396.4	5,055.5	-1,201.3	-760.6	END OF TANGENT
6,345.7	5,966.3	-1,396.6	-884.3	EOD TO VERTICAL
6,375.7	5,996.3	-1,396.6	-884.3	KOP (9°/100ft BUR)
7,375.8	6,633.0	-1,388.7	-247.7	7" ICP - MLD 4
11,774.4	6,633.0	-1,334.1	4,150.5	BHL - MLD 4