EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)
SEC. 22 T4N R68W 6th P.M.
MLD 11

ORIGINAL WELLBORE

29 July, 2014

Plan: PROPOSAL #1

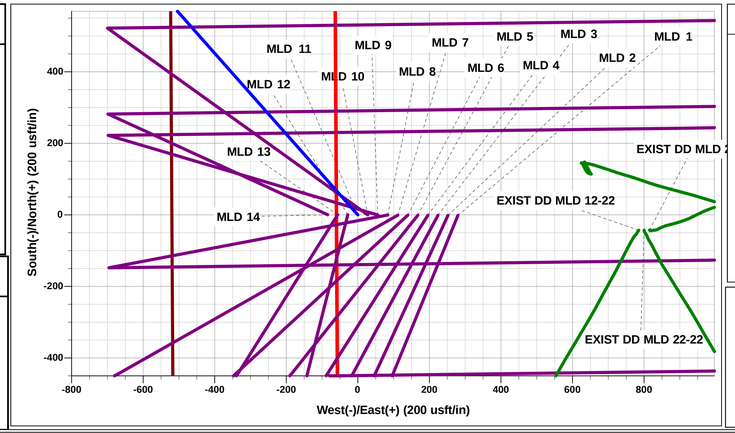
Project: WELD COUNTY, COLORADO (NAD 83)
Site: SEC. 22 T4N R68W 6th P.M.
Well: MLD 11
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
1250.0	1250.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (3°/100ft BUR)
1692.4	1696.4	13.39	318.48	38.9	-34.4	-26.3	51.9	EOB TO 13.39° INC
5699.0	5815.1	13.39	318.48	753.1	-666.9	-508.7	1005.9	END OF TANGENT
6141.4	6261.5	0.00	0.00	792.0	-701.3	-535.0	1057.9	EOD TO VERTICAL
6171.4	6291.5	0.00	0.00	792.0	-701.3	-535.0	1057.9	KOP (9°/100ft BUR)
6808.0	7291.5	90.00	89.28	800.0	-64.7	91.1	1694.5	7" ICP - MLD 11
6808.0	11696.9	90.00	89.29	855.0	4340.4	4423.8	6099.9	BHL - MLD 11

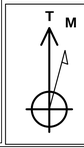
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - MLD 11	6171.4	792.0	-701.3	40.306146	-104.999482
7" ICP - MLD 11	6808.0	800.0	-64.7	40.306168	-104.997200
BHL - MLD 11	6808.0	855.0	4340.4	40.306318	-104.981406



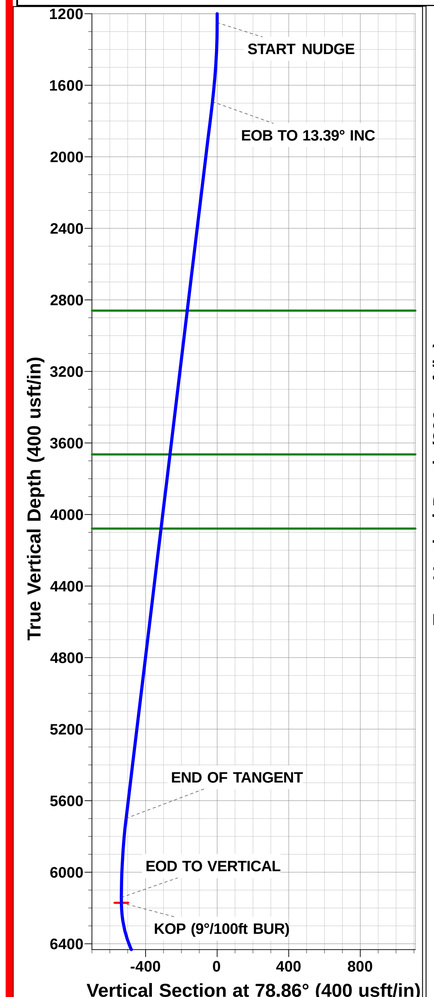
FORMATION TOP DETAILS

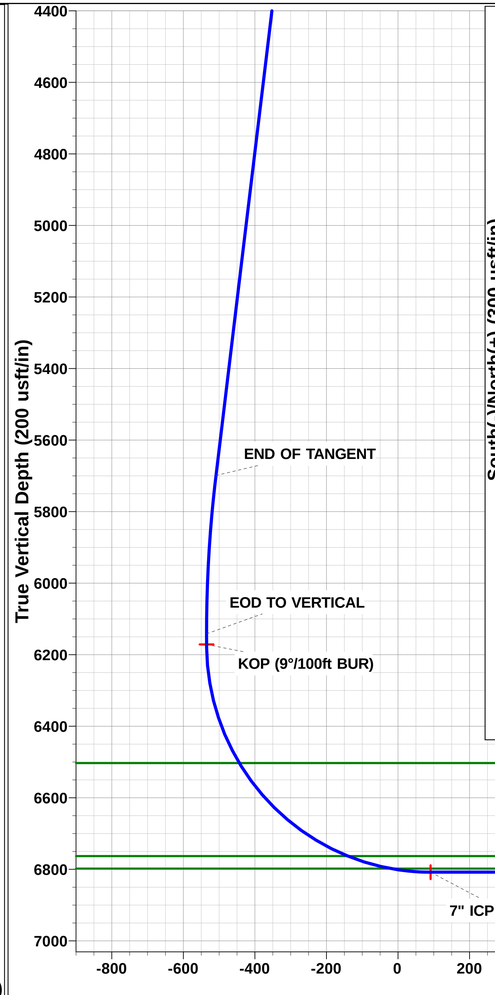
TVDPath	MDPath	Formation
2860.0	2896.7	PARKMAN
3664.0	3723.2	SUSSEX
4079.0	4149.8	SHANNON
6503.0	6640.3	NIOBRARA
6763.0	7050.7	FORT HAYS
6798.0	7178.5	CODELL

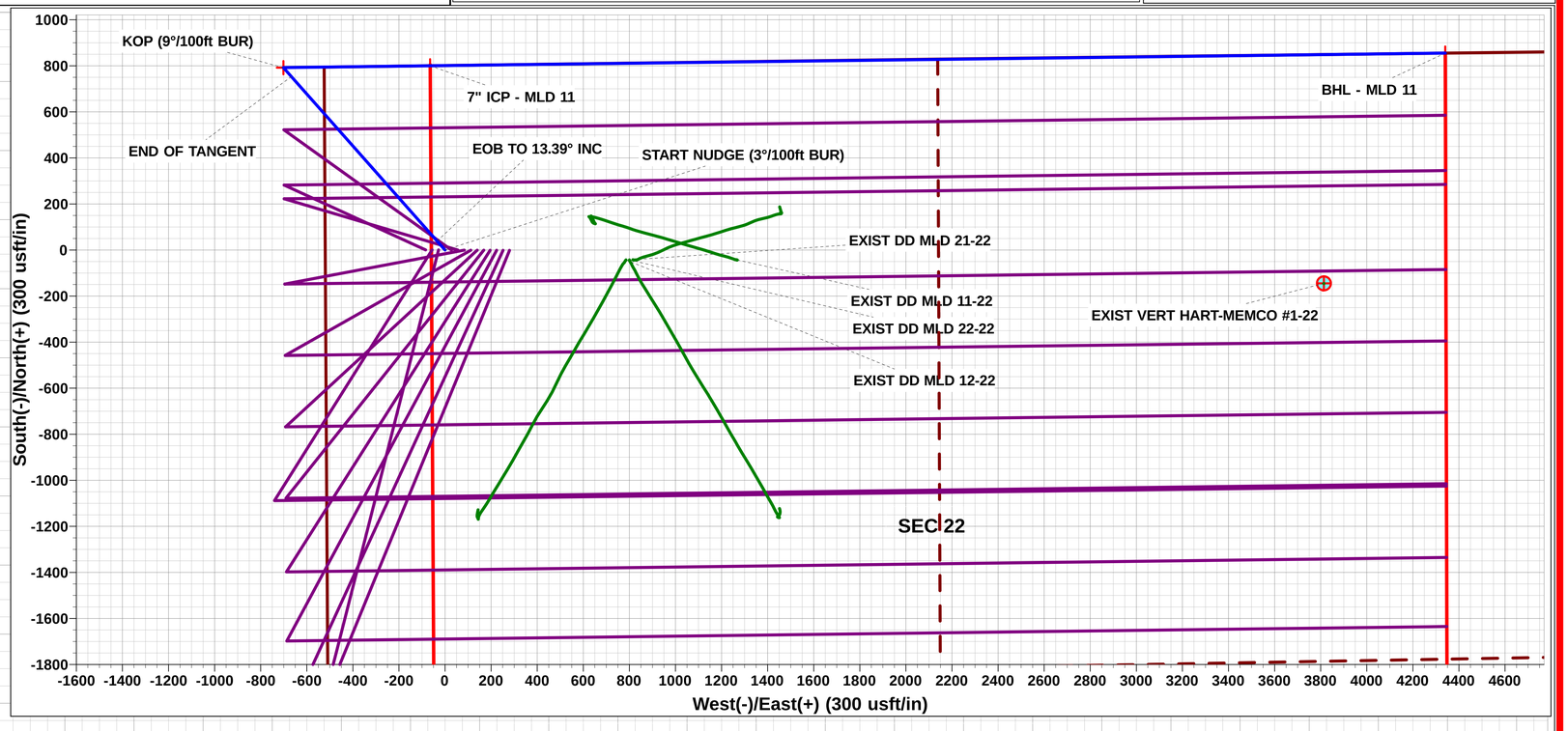


Azimuths to True North
Magnetic North: 8.56°

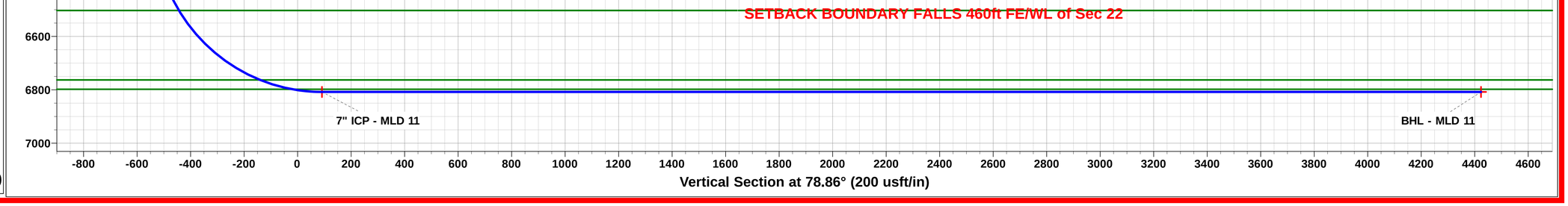
Magnetic Field
Strength: 52727.2snT
Dip Angle: 66.83°
Date: 29/07/2014
Model: IGRF2010







SETBACK BOUNDARY FALLS 460ft FE/WL of Sec 22



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:	SEC. 22 T4N R68W 6th P.M.	**North Reference:**	True
Well:	MLD 11	**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	**Latitude:**	40.294131
From:	Lat/Long	**Easting:**	3,140,798.83 usft	**Longitude:**	-104.995243
Position Uncertainty:	0.0 usft	**Slot Radius:**	1.10000 ft	**Grid Convergence:**	0.33 °

Well MLD 11

Well Position	**+N/-S**	3,585.1 usft	**Northing:**	1,353,975.97 usft	**Latitude:**	40.303972
	+E/-W	-481.1 usft	**Easting:**	3,140,297.32 usft	**Longitude:**	-104.996968
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	4,875.0 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	78.86

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	
1,696.4	13.39	318.48	1,692.4	-3,206.6	38.9	-34.4	3.00	3.00	0.00	318.48	
5,815.1	13.39	318.48	5,699.0	800.0	753.1	-666.9	0.00	0.00	0.00	0.00	
6,261.5	0.00	0.00	6,141.4	1,242.4	792.0	-701.3	3.00	-3.00	0.00	180.00	
6,291.5	0.00	0.00	6,171.4	1,272.4	792.0	-701.3	0.00	0.00	0.00	0.00	KOP - MLD 11
7,291.5	90.00	89.28	6,808.0	1,909.0	800.0	-64.7	9.00	9.00	8.93	89.28	7" ICP - MLD 11
11,696.9	90.00	89.29	6,808.0	1,909.0	855.0	4,340.4	0.00	0.00	0.00	121.83	BHL - MLD 11

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Well:	MLD 11	**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	4,899.00	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 (3°/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	1.50	318.48	1,300.0	3,599.01	0.5	-0.4	-0.3	3.00	3.00	0.00
1,400.0	4.50	318.48	1,399.8	3,499.15	4.4	-3.9	-3.0	3.00	3.00	0.00
1,500.0	7.50	318.48	1,499.3	3,399.71	12.2	-10.8	-8.3	3.00	3.00	0.00
1,600.0	10.50	318.48	1,598.0	3,300.96	23.9	-21.2	-16.2	3.00	3.00	0.00
EOB TO 13.39° INC										
1,696.4	***13.39***	***318.48***	***1,692.4***	***3,206.63***	***38.9***	***-34.4***	***-26.3***	***3.00***	***3.00***	***0.00***
1,700.0	13.39	318.48	1,695.8	3,203.15	39.5	-35.0	-26.7	0.00	0.00	0.00
1,800.0	13.39	318.48	1,793.1	3,105.87	56.8	-50.3	-38.4	0.00	0.00	0.00
1,900.0	13.39	318.48	1,890.4	3,008.59	74.2	-65.7	-50.1	0.00	0.00	0.00
2,000.0	13.39	318.48	1,987.7	2,911.31	91.5	-81.0	-61.8	0.00	0.00	0.00
2,100.0	13.39	318.48	2,085.0	2,814.03	108.9	-96.4	-73.5	0.00	0.00	0.00
2,200.0	13.39	318.48	2,182.3	2,716.75	126.2	-111.8	-85.3	0.00	0.00	0.00
2,300.0	13.39	318.48	2,279.5	2,619.47	143.6	-127.1	-97.0	0.00	0.00	0.00
2,400.0	13.39	318.48	2,376.8	2,522.19	160.9	-142.5	-108.7	0.00	0.00	0.00
2,500.0	13.39	318.48	2,474.1	2,424.91	178.2	-157.8	-120.4	0.00	0.00	0.00
2,600.0	13.39	318.48	2,571.4	2,327.63	195.6	-173.2	-132.1	0.00	0.00	0.00
2,700.0	13.39	318.48	2,668.7	2,230.35	212.9	-188.5	-143.8	0.00	0.00	0.00
2,800.0	13.39	318.48	2,765.9	2,133.07	230.3	-203.9	-155.5	0.00	0.00	0.00
PARKMAN										
2,896.7	***13.39***	***318.48***	***2,860.0***	***2,039.00***	***247.0***	***-218.7***	***-166.9***	***0.00***	***0.00***	***0.00***
2,900.0	13.39	318.48	2,863.2	2,035.79	247.6	-219.2	-167.3	0.00	0.00	0.00
3,000.0	13.39	318.48	2,960.5	1,938.51	264.9	-234.6	-179.0	0.00	0.00	0.00
3,100.0	13.39	318.48	3,057.8	1,841.22	282.3	-250.0	-190.7	0.00	0.00	0.00
3,200.0	13.39	318.48	3,155.1	1,743.94	299.6	-265.3	-202.4	0.00	0.00	0.00
3,300.0	13.39	318.48	3,252.3	1,646.66	317.0	-280.7	-214.1	0.00	0.00	0.00
3,400.0	13.39	318.48	3,349.6	1,549.38	334.3	-296.0	-225.8	0.00	0.00	0.00
3,500.0	13.39	318.48	3,446.9	1,452.10	351.6	-311.4	-237.5	0.00	0.00	0.00
3,600.0	13.39	318.48	3,544.2	1,354.82	369.0	-326.7	-249.3	0.00	0.00	0.00
3,700.0	13.39	318.48	3,641.5	1,257.54	386.3	-342.1	-261.0	0.00	0.00	0.00
SUSSEX										
3,723.2	***13.39***	***318.48***	***3,664.0***	***1,235.00***	***390.3***	***-345.6***	***-263.7***	***0.00***	***0.00***	***0.00***
3,800.0	13.39	318.48	3,738.7	1,160.26	403.7	-357.4	-272.7	0.00	0.00	0.00
3,900.0	13.39	318.48	3,836.0	1,062.98	421.0	-372.8	-284.4	0.00	0.00	0.00
4,000.0	13.39	318.48	3,933.3	965.70	438.4	-388.2	-296.1	0.00	0.00	0.00
4,100.0	13.39	318.48	4,030.6	868.42	455.7	-403.5	-307.8	0.00	0.00	0.00
SHANNON										
4,149.8	***13.39***	***318.48***	***4,079.0***	***820.00***	***464.3***	***-411.2***	***-313.7***	***0.00***	***0.00***	***0.00***
4,200.0	13.39	318.48	4,127.9	771.14	473.0	-418.9	-319.5	0.00	0.00	0.00
4,300.0	13.39	318.48	4,225.1	673.86	490.4	-434.2	-331.2	0.00	0.00	0.00

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Well:	MLD 11	**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	13.39	318.48	4,322.4	576.58	507.7	-449.6	-343.0	0.00	0.00	0.00
4,500.0	13.39	318.48	4,419.7	479.30	525.1	-464.9	-354.7	0.00	0.00	0.00
4,600.0	13.39	318.48	4,517.0	382.02	542.4	-480.3	-366.4	0.00	0.00	0.00
4,700.0	13.39	318.48	4,614.3	284.74	559.7	-495.6	-378.1	0.00	0.00	0.00
4,800.0	13.39	318.48	4,711.5	187.46	577.1	-511.0	-389.8	0.00	0.00	0.00
4,900.0	13.39	318.48	4,808.8	90.18	594.4	-526.4	-401.5	0.00	0.00	0.00
5,000.0	13.39	318.48	4,906.1	-7.10	611.8	-541.7	-413.2	0.00	0.00	0.00
5,100.0	13.39	318.48	5,003.4	-104.38	629.1	-557.1	-425.0	0.00	0.00	0.00
5,200.0	13.39	318.48	5,100.7	-201.67	646.5	-572.4	-436.7	0.00	0.00	0.00
5,300.0	13.39	318.48	5,197.9	-298.95	663.8	-587.8	-448.4	0.00	0.00	0.00
5,400.0	13.39	318.48	5,295.2	-396.23	681.1	-603.1	-460.1	0.00	0.00	0.00
5,500.0	13.39	318.48	5,392.5	-493.51	698.5	-618.5	-471.8	0.00	0.00	0.00
5,600.0	13.39	318.48	5,489.8	-590.79	715.8	-633.8	-483.5	0.00	0.00	0.00
5,700.0	13.39	318.48	5,587.1	-688.07	733.2	-649.2	-495.2	0.00	0.00	0.00
5,800.0	13.39	318.48	5,684.3	-785.35	750.5	-664.6	-507.0	0.00	0.00	0.00
END OF TANGENT										
5,815.1	***13.39***	***318.48***	***5,699.0***	***-800.03***	***753.1***	***-666.9***	***-508.7***	***0.00***	***0.00***	***0.00***
5,900.0	10.85	318.48	5,782.0	-883.04	766.5	-678.7	-517.7	3.00	-3.00	0.00
6,000.0	7.85	318.48	5,880.7	-981.70	778.6	-689.4	-526.0	3.00	-3.00	0.00
6,100.0	4.85	318.48	5,980.1	-1,081.08	786.9	-696.8	-531.5	3.00	-3.00	0.00
6,200.0	1.85	318.48	6,079.9	-1,180.89	791.3	-700.6	-534.5	3.00	-3.00	0.00
EOD TO VERTICAL										
6,261.5	***0.00***	***0.00***	***6,141.4***	***-1,242.40***	***792.0***	***-701.3***	***-535.0***	***3.00***	***-3.00***	***0.00***
KOP (9°/100ft BUR)										
6,291.5	***0.00***	***0.00***	***6,171.4***	***-1,272.40***	***792.0***	***-701.3***	***-535.0***	***0.00***	***0.00***	***0.00***
6,300.0	0.76	89.28	6,179.9	-1,280.88	792.0	-701.2	-534.9	9.00	9.00	0.00
6,400.0	9.76	89.28	6,279.4	-1,380.36	792.1	-692.1	-525.9	9.00	9.00	0.00
6,500.0	18.76	89.28	6,376.2	-1,477.18	792.4	-667.5	-501.7	9.00	9.00	0.00
6,600.0	27.76	89.28	6,468.0	-1,568.95	792.9	-628.0	-462.9	9.00	9.00	0.00
NIOBRARA										
6,640.3	***31.39***	***89.28***	***6,503.0***	***-1,604.00***	***793.2***	***-608.1***	***-443.3***	***9.00***	***9.00***	***0.00***
6,700.0	36.76	89.28	6,552.4	-1,653.42	793.6	-574.7	-410.5	9.00	9.00	0.00
6,800.0	45.76	89.28	6,627.5	-1,728.51	794.4	-508.8	-345.7	9.00	9.00	0.00
6,900.0	54.77	89.28	6,691.4	-1,792.37	795.4	-432.0	-270.1	9.00	9.00	0.00
7,000.0	63.77	89.28	6,742.4	-1,843.43	796.5	-346.1	-185.7	9.00	9.00	0.00
FORT HAYS										
7,050.7	***68.33***	***89.28***	***6,763.0***	***-1,864.00***	***797.1***	***-299.8***	***-140.1***	***9.00***	***9.00***	***0.00***
7,100.0	72.77	89.28	6,779.4	-1,880.42	797.6	-253.3	-94.4	9.00	9.00	0.00
CODELL										
7,178.5	***79.83***	***89.28***	***6,798.0***	***-1,899.00***	***798.6***	***-177.1***	***-19.4***	***9.00***	***9.00***	***0.00***
7,200.0	81.77	89.28	6,801.4	-1,902.44	798.9	-155.9	1.4	9.00	9.00	0.00
7" ICP - MLD 11										
7,291.5	***90.00***	***89.28***	***6,808.0***	***-1,909.00***	***800.0***	***-64.7***	***91.1***	***9.00***	***9.00***	***0.00***
7,300.0	90.00	89.28	6,808.0	-1,909.00	800.1	-56.2	99.5	0.00	0.00	0.00
7,400.0	90.00	89.28	6,808.0	-1,908.99	801.4	43.8	197.8	0.00	0.00	0.00
7,500.0	90.00	89.28	6,808.0	-1,908.99	802.6	143.7	296.2	0.00	0.00	0.00
7,600.0	90.00	89.28	6,808.0	-1,908.98	803.9	243.7	394.5	0.00	0.00	0.00
7,700.0	90.00	89.28	6,808.0	-1,908.97	805.2	343.7	492.9	0.00	0.00	0.00
7,800.0	90.00	89.28	6,808.0	-1,908.97	806.4	443.7	591.2	0.00	0.00	0.00
7,900.0	90.00	89.28	6,808.0	-1,908.96	807.7	543.7	689.6	0.00	0.00	0.00
8,000.0	90.00	89.28	6,808.0	-1,908.96	808.9	643.7	787.9	0.00	0.00	0.00
8,100.0	90.00	89.28	6,808.0	-1,908.95	810.2	743.7	886.3	0.00	0.00	0.00
8,200.0	90.00	89.28	6,808.0	-1,908.95	811.5	843.7	984.6	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:	SEC. 22 T4N R68W 6th P.M.	**North Reference:**	True
Well:	MLD 11	**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)
8,300.0	90.00	89.28	6,807.9	-1,908.95	812.7	943.7	1,083.0	0.00	0.00	0.00
8,400.0	90.00	89.28	6,807.9	-1,908.94	814.0	1,043.7	1,181.3	0.00	0.00	0.00
8,500.0	90.00	89.28	6,807.9	-1,908.94	815.2	1,143.7	1,279.7	0.00	0.00	0.00
8,600.0	90.00	89.28	6,807.9	-1,908.94	816.5	1,243.7	1,378.0	0.00	0.00	0.00
8,700.0	90.00	89.28	6,807.9	-1,908.93	817.7	1,343.7	1,476.4	0.00	0.00	0.00
8,800.0	90.00	89.28	6,807.9	-1,908.93	819.0	1,443.6	1,574.7	0.00	0.00	0.00
8,900.0	90.00	89.28	6,807.9	-1,908.93	820.2	1,543.6	1,673.1	0.00	0.00	0.00
9,000.0	90.00	89.28	6,807.9	-1,908.93	821.5	1,643.6	1,771.4	0.00	0.00	0.00
9,100.0	90.00	89.28	6,807.9	-1,908.93	822.7	1,743.6	1,869.8	0.00	0.00	0.00
9,200.0	90.00	89.28	6,807.9	-1,908.93	824.0	1,843.6	1,968.1	0.00	0.00	0.00
9,300.0	90.00	89.28	6,807.9	-1,908.92	825.2	1,943.6	2,066.5	0.00	0.00	0.00
9,400.0	90.00	89.28	6,807.9	-1,908.92	826.5	2,043.6	2,164.8	0.00	0.00	0.00
9,500.0	90.00	89.28	6,807.9	-1,908.92	827.7	2,143.6	2,263.2	0.00	0.00	0.00
9,600.0	90.00	89.28	6,807.9	-1,908.92	829.0	2,243.6	2,361.5	0.00	0.00	0.00
9,700.0	90.00	89.28	6,807.9	-1,908.92	830.2	2,343.6	2,459.9	0.00	0.00	0.00
9,800.0	90.00	89.29	6,807.9	-1,908.93	831.5	2,443.6	2,558.2	0.00	0.00	0.00
9,900.0	90.00	89.29	6,807.9	-1,908.93	832.7	2,543.6	2,656.5	0.00	0.00	0.00
10,000.0	90.00	89.29	6,807.9	-1,908.93	834.0	2,643.6	2,754.9	0.00	0.00	0.00
10,100.0	90.00	89.29	6,807.9	-1,908.93	835.2	2,743.5	2,853.2	0.00	0.00	0.00
10,200.0	90.00	89.29	6,807.9	-1,908.93	836.5	2,843.5	2,951.6	0.00	0.00	0.00
10,300.0	90.00	89.29	6,807.9	-1,908.93	837.7	2,943.5	3,049.9	0.00	0.00	0.00
10,400.0	90.00	89.29	6,807.9	-1,908.94	839.0	3,043.5	3,148.3	0.00	0.00	0.00
10,500.0	90.00	89.29	6,807.9	-1,908.94	840.2	3,143.5	3,246.6	0.00	0.00	0.00
10,600.0	90.00	89.29	6,807.9	-1,908.94	841.4	3,243.5	3,345.0	0.00	0.00	0.00
10,700.0	90.00	89.29	6,807.9	-1,908.95	842.7	3,343.5	3,443.3	0.00	0.00	0.00
10,800.0	90.00	89.29	6,808.0	-1,908.95	843.9	3,443.5	3,541.7	0.00	0.00	0.00
10,900.0	90.00	89.29	6,808.0	-1,908.95	845.2	3,543.5	3,640.0	0.00	0.00	0.00
11,000.0	90.00	89.29	6,808.0	-1,908.96	846.4	3,643.5	3,738.4	0.00	0.00	0.00
11,100.0	90.00	89.29	6,808.0	-1,908.96	847.7	3,743.5	3,836.7	0.00	0.00	0.00
11,200.0	90.00	89.29	6,808.0	-1,908.97	848.9	3,843.5	3,935.1	0.00	0.00	0.00
11,300.0	90.00	89.29	6,808.0	-1,908.98	850.1	3,943.5	4,033.4	0.00	0.00	0.00
11,400.0	90.00	89.29	6,808.0	-1,908.98	851.4	4,043.4	4,131.8	0.00	0.00	0.00
11,500.0	90.00	89.29	6,808.0	-1,908.99	852.6	4,143.4	4,230.1	0.00	0.00	0.00
11,600.0	90.00	89.29	6,808.0	-1,908.99	853.8	4,243.4	4,328.4	0.00	0.00	0.00
BHL - MLD 11										
11,696.9	***90.00***	***89.29***	***6,808.0***	***-1,909.00***	***855.0***	***4,340.4***	***4,423.8***	***0.00***	***0.00***	***0.00***

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,896.7	2,860.0	PARKMAN		0.00	
3,723.2	3,664.0	SUSSEX		0.00	
4,149.8	4,079.0	SHANNON		0.00	
6,640.3	6,503.0	NIOBRARA		0.00	
7,050.7	6,763.0	FORT HAYS		0.00	
7,178.5	6,798.0	CODELL		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:	SEC. 22 T4N R68W 6th P.M.	**North Reference:**	True
Well:	MLD 11	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,250.0	1,250.0	0.0	0.0	START NUDGE (3°/100ft BUR)
1,696.4	1,692.4	38.9	-34.4	EOB TO 13.39° INC
5,815.1	5,699.0	753.1	-666.9	END OF TANGENT
6,261.5	6,141.4	792.0	-701.3	EOD TO VERTICAL
6,291.5	6,171.4	792.0	-701.3	KOP (9°/100ft BUR)
7,291.5	6,808.0	800.0	-64.7	7" ICP - MLD 11
11,696.9	6,808.0	855.0	4,340.4	BHL - MLD 11