

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

SEC. 29 T7N R67W 6th P.M.

FRYE NORTH 7

ORIGINAL WELLBORE

04 August, 2014

Plan: PROPOSAL #1

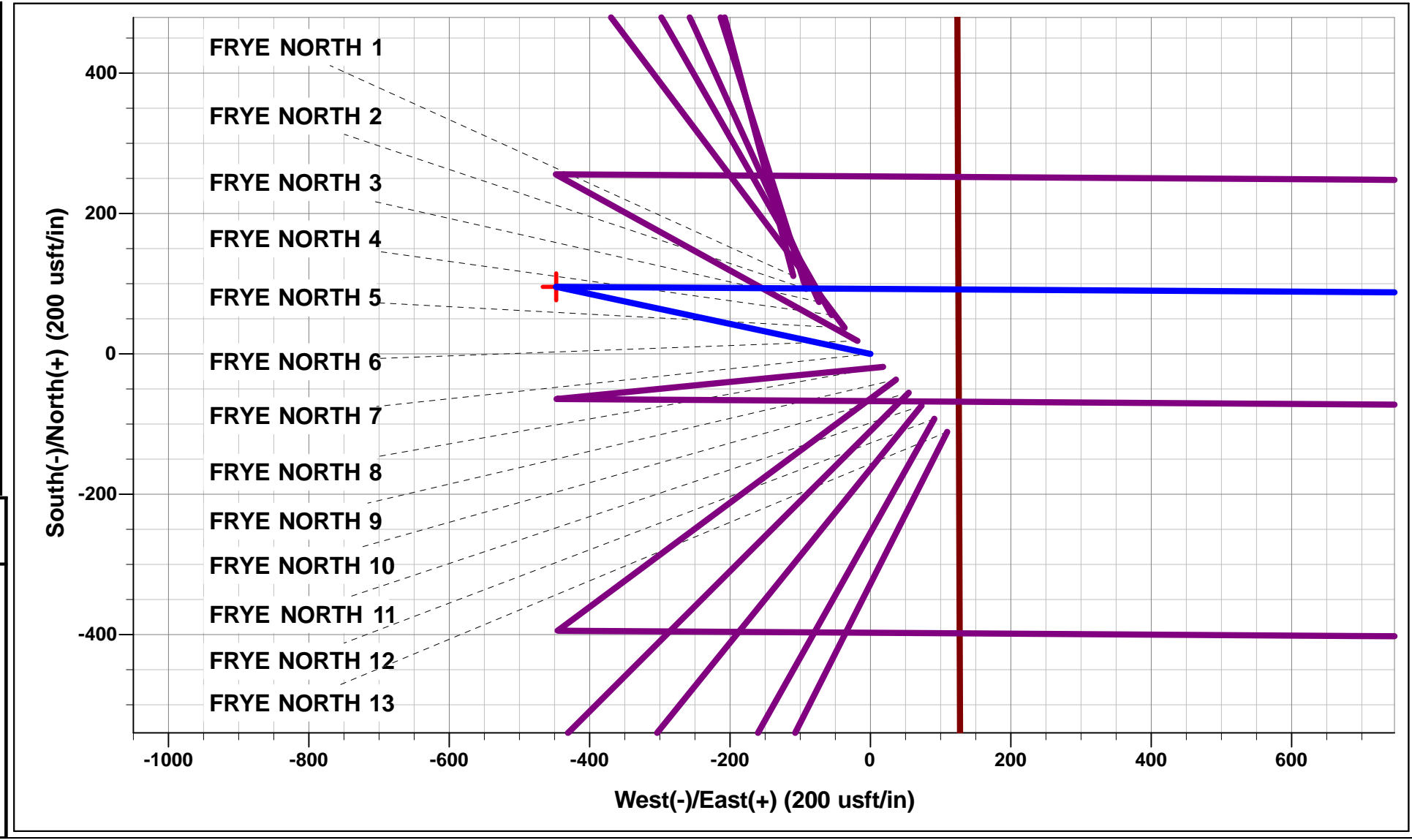




Project: WELD COUNTY, COLORADO (NAD 83)
Site: SEC. 29 T7N R67W 6th P.M.
Well: FRYE NORTH 7
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

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 (2°/100ft BUR)	
1828.4	1828.8	5.58	282.06	2.8	-13.3	-13.3	13.6	EOB TO 5.58° INC	
6238.6	6260.0	5.58	282.06	92.8	-434.3	-434.1	444.1	END OF TANGENT	
6517.0	6538.8	0.00	0.00	95.6	-447.6	-447.4	457.7	EOD TO VERTICAL	
6547.0	6568.8	0.00	0.00	95.6	-447.6	-447.4	457.7	KOP (10°/100ft BUR)	
7120.0	7468.9	90.00	90.38	91.8	125.3	125.5	1030.7	7" ICP - FRYE NORTH 7	
7120.0	17984.0	90.00	90.37	23.1	10640.2	10640.3	11545.8	BHL - FRYE NORTH 7	

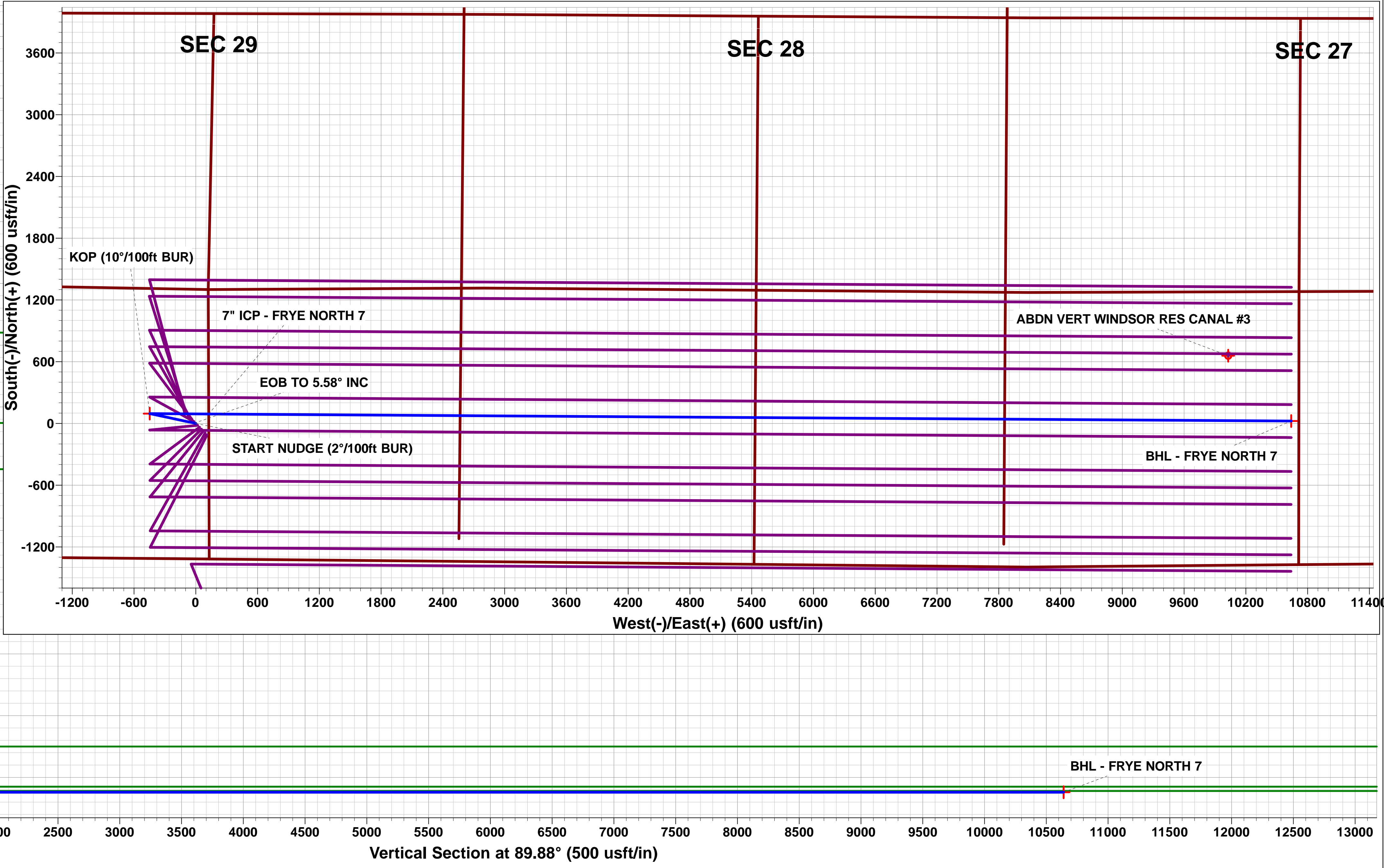
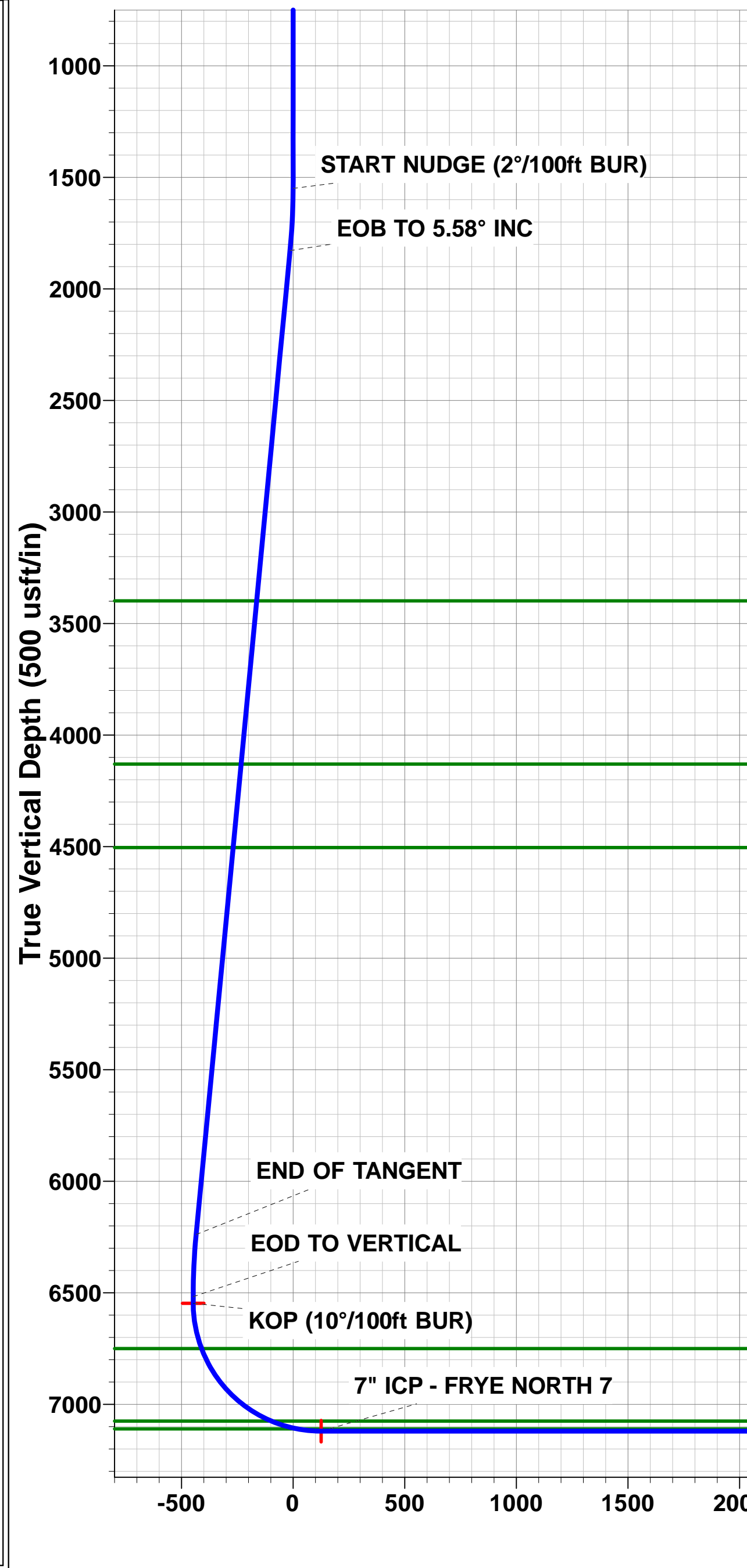
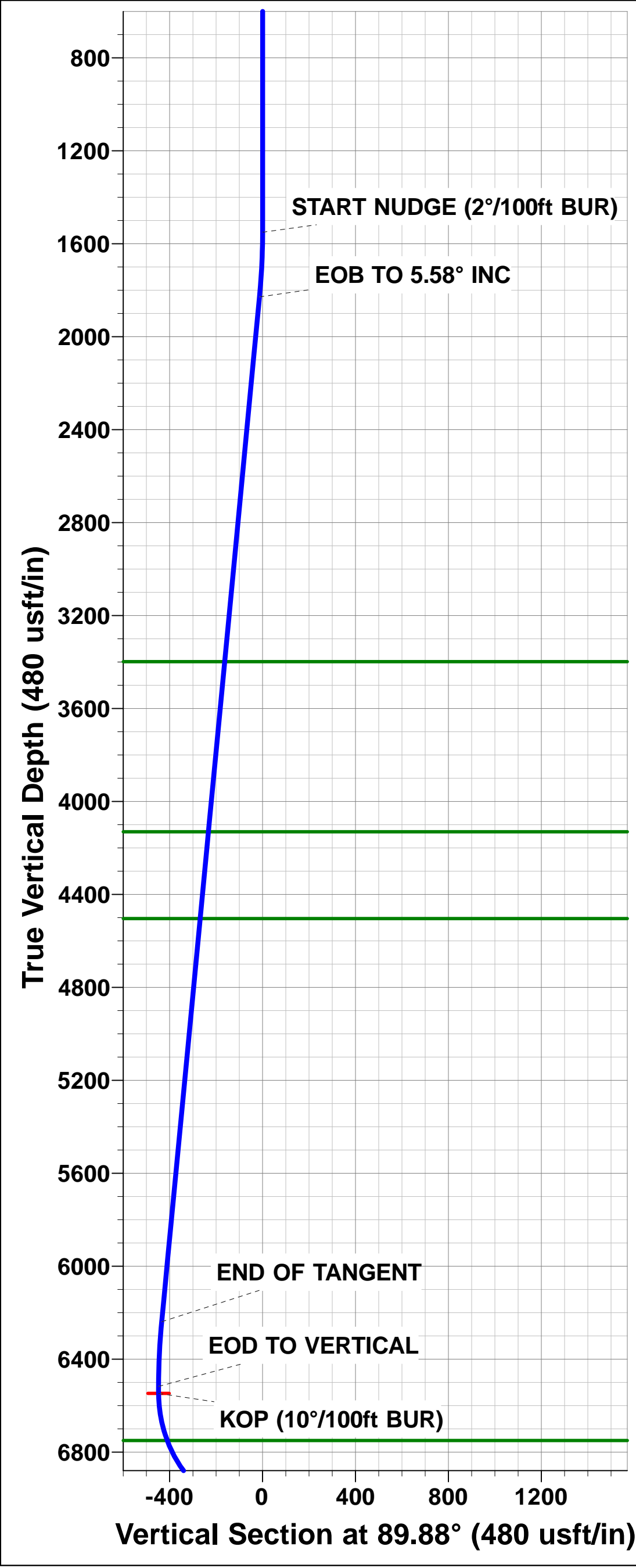
WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - FRYE NORTH 7	6547.0	95.6	-447.6	40.541903	-104.919619
7" ICP - FRYE NORTH 7	7120.0	91.8	125.3	40.541893	-104.917558
BHL - FRYE NORTH 7	7120.0	23.1	10640.2	40.541698	-104.879726



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3398.0	3405.9	PARKMAN
4130.0	4141.4	SUSSEX
4504.0	4517.2	SHANNON
6750.0	6776.4	NIOBRARA
7075.0	7240.3	FORT HAYS
7110.0	7361.7	CODELL

Azimuths to True North
Magnetic North: 8.54°

Magnetic Field
Strength: 52857.5snT
Dip Angle: 67.03°
Date: 04/08/2014
Model: IGRF2010



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well FRYE NORTH 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4983.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4983.0usft (Original Well Elev)
Site:	SEC. 29 T7N R67W 6th P.M.	North Reference:	True
Well:	FRYE NORTH 7	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. 29 T7N R67W 6th P.M.		
Site Position:		Northing:	1,440,801.81 usft
From:	Lat/Long	Easting:	3,161,640.19 usft
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft
		Latitude:	40.541946
		Longitude:	-104.918404
		Grid Convergence:	0.38 °

Well	FRYE NORTH 7		
Well Position	+N/-S	-111.1 usft	Northing:
	+E/-W	109.8 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/08/2014	8.54	67.03	52,857

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 (°)
	7,120.0	0.0	0.0	89.88

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	-4,983.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,550.0	0.00	0.00	1,550.0	-3,433.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,828.8	5.58	282.06	1,828.4	-3,154.6	2.8	-13.3	2.00	2.00	0.00	282.06	
6,260.0	5.58	282.06	6,238.6	1,255.6	92.8	-434.3	0.00	0.00	0.00	0.00	
6,538.8	0.00	0.00	6,517.0	1,534.0	95.6	-447.6	2.00	-2.00	0.00	180.00	
6,568.8	0.00	0.00	6,547.0	1,564.0	95.6	-447.6	0.00	0.00	0.00	0.00	KOP - FRYE NORT
7,468.9	90.00	90.38	7,120.0	2,137.0	91.8	125.3	10.00	10.00	10.04	90.38	7" ICP - FRYE NOF
17,984.0	90.00	90.37	7,120.0	2,137.0	23.1	10,640.2	0.00	0.00	0.00	-43.87	BHL - FRYE NORT

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4983.0usft (Original Well Elev)
Site:	SEC. 29 T7N R67W 6th P.M.	North Reference:	True
Well:	FRYE NORTH 7	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	4,983.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,883.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,783.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,683.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,583.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,483.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,383.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,283.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	4,183.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	4,083.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,983.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,883.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,783.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,683.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,583.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,483.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
1,550.0	0.00	0.00	1,550.0	3,433.00	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	1.00	282.06	1,600.0	3,383.00	0.1	-0.4	-0.4	2.00	2.00	0.00
1,700.0	3.00	282.06	1,699.9	3,283.07	0.8	-3.8	-3.8	2.00	2.00	0.00
1,800.0	5.00	282.06	1,799.7	3,183.32	2.3	-10.7	-10.7	2.00	2.00	0.00
EOB TO 5.58° INC										
1,828.8	5.58	282.06	1,828.4	3,154.63	2.8	-13.3	-13.3	2.00	2.00	0.00
1,900.0	5.58	282.06	1,899.2	3,083.78	4.3	-20.0	-20.0	0.00	0.00	0.00
2,000.0	5.58	282.06	1,998.7	2,984.25	6.3	-29.5	-29.5	0.00	0.00	0.00
2,100.0	5.58	282.06	2,098.3	2,884.72	8.3	-39.0	-39.0	0.00	0.00	0.00
2,200.0	5.58	282.06	2,197.8	2,785.20	10.4	-48.5	-48.5	0.00	0.00	0.00
2,300.0	5.58	282.06	2,297.3	2,685.67	12.4	-58.0	-58.0	0.00	0.00	0.00
2,400.0	5.58	282.06	2,396.9	2,586.14	14.4	-67.5	-67.5	0.00	0.00	0.00
2,500.0	5.58	282.06	2,496.4	2,486.62	16.5	-77.0	-77.0	0.00	0.00	0.00
2,600.0	5.58	282.06	2,595.9	2,387.09	18.5	-86.5	-86.5	0.00	0.00	0.00
2,700.0	5.58	282.06	2,695.4	2,287.56	20.5	-96.0	-96.0	0.00	0.00	0.00
2,800.0	5.58	282.06	2,795.0	2,188.04	22.5	-105.5	-105.5	0.00	0.00	0.00
2,900.0	5.58	282.06	2,894.5	2,088.51	24.6	-115.0	-115.0	0.00	0.00	0.00
3,000.0	5.58	282.06	2,994.0	1,988.98	26.6	-124.6	-124.5	0.00	0.00	0.00
3,100.0	5.58	282.06	3,093.5	1,889.46	28.6	-134.1	-134.0	0.00	0.00	0.00
3,200.0	5.58	282.06	3,193.1	1,789.93	30.7	-143.6	-143.5	0.00	0.00	0.00
3,300.0	5.58	282.06	3,292.6	1,690.40	32.7	-153.1	-153.0	0.00	0.00	0.00
3,400.0	5.58	282.06	3,392.1	1,590.88	34.7	-162.6	-162.5	0.00	0.00	0.00
PARKMAN										
3,405.9	5.58	282.06	3,398.0	1,585.00	34.8	-163.1	-163.0	0.00	0.00	0.00
3,500.0	5.58	282.06	3,491.7	1,491.35	36.8	-172.1	-172.0	0.00	0.00	0.00
3,600.0	5.58	282.06	3,591.2	1,391.82	38.8	-181.6	-181.5	0.00	0.00	0.00
3,700.0	5.58	282.06	3,690.7	1,292.29	40.8	-191.1	-191.0	0.00	0.00	0.00
3,800.0	5.58	282.06	3,790.2	1,192.77	42.8	-200.6	-200.5	0.00	0.00	0.00
3,900.0	5.58	282.06	3,889.8	1,093.24	44.9	-210.1	-210.0	0.00	0.00	0.00
4,000.0	5.58	282.06	3,989.3	993.71	46.9	-219.6	-219.5	0.00	0.00	0.00
4,100.0	5.58	282.06	4,088.8	894.19	48.9	-229.1	-229.0	0.00	0.00	0.00
SUSSEX										
4,141.4	5.58	282.06	4,130.0	853.00	49.8	-233.0	-232.9	0.00	0.00	0.00
4,200.0	5.58	282.06	4,188.3	794.66	51.0	-238.6	-238.5	0.00	0.00	0.00
4,300.0	5.58	282.06	4,287.9	695.13	53.0	-248.1	-248.0	0.00	0.00	0.00
4,400.0	5.58	282.06	4,387.4	595.61	55.0	-257.6	-257.5	0.00	0.00	0.00
4,500.0	5.58	282.06	4,486.9	496.08	57.0	-267.1	-267.0	0.00	0.00	0.00

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Well:	FRYE NORTH 7	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)
SHANNON										
4,517.2	5.58	282.06	4,504.0	479.00	57.4	-268.7	-268.6	0.00	0.00	0.00
4,600.0	5.58	282.06	4,586.4	396.55	59.1	-276.6	-276.5	0.00	0.00	0.00
4,700.0	5.58	282.06	4,686.0	297.03	61.1	-286.1	-286.0	0.00	0.00	0.00
4,800.0	5.58	282.06	4,785.5	197.50	63.1	-295.6	-295.5	0.00	0.00	0.00
4,900.0	5.58	282.06	4,885.0	97.97	65.2	-305.1	-305.0	0.00	0.00	0.00
5,000.0	5.58	282.06	4,984.6	-1.55	67.2	-314.6	-314.5	0.00	0.00	0.00
5,100.0	5.58	282.06	5,084.1	-101.08	69.2	-324.1	-324.0	0.00	0.00	0.00
5,200.0	5.58	282.06	5,183.6	-200.61	71.3	-333.6	-333.5	0.00	0.00	0.00
5,300.0	5.58	282.06	5,283.1	-300.13	73.3	-343.1	-343.0	0.00	0.00	0.00
5,400.0	5.58	282.06	5,382.7	-399.66	75.3	-352.6	-352.5	0.00	0.00	0.00
5,500.0	5.58	282.06	5,482.2	-499.19	77.3	-362.1	-361.9	0.00	0.00	0.00
5,600.0	5.58	282.06	5,581.7	-598.71	79.4	-371.6	-371.4	0.00	0.00	0.00
5,700.0	5.58	282.06	5,681.2	-698.24	81.4	-381.1	-380.9	0.00	0.00	0.00
5,800.0	5.58	282.06	5,780.8	-797.77	83.4	-390.6	-390.4	0.00	0.00	0.00
5,900.0	5.58	282.06	5,880.3	-897.29	85.5	-400.1	-399.9	0.00	0.00	0.00
6,000.0	5.58	282.06	5,979.8	-996.82	87.5	-409.6	-409.4	0.00	0.00	0.00
6,100.0	5.58	282.06	6,079.3	-1,096.35	89.5	-419.1	-418.9	0.00	0.00	0.00
6,200.0	5.58	282.06	6,178.9	-1,195.87	91.5	-428.6	-428.4	0.00	0.00	0.00
END OF TANGENT										
6,260.0	5.58	282.06	6,238.6	-1,255.63	92.8	-434.3	-434.1	0.00	0.00	0.00
6,300.0	4.78	282.06	6,278.4	-1,295.43	93.5	-437.9	-437.7	2.00	-2.00	0.00
6,400.0	2.78	282.06	6,378.2	-1,395.21	94.9	-444.3	-444.1	2.00	-2.00	0.00
6,500.0	0.78	282.06	6,478.2	-1,495.15	95.5	-447.3	-447.1	2.00	-2.00	0.00
EOD TO VERTICAL										
6,538.8	0.00	0.00	6,517.0	-1,534.00	95.6	-447.6	-447.4	2.00	-2.00	0.00
KOP (10°/100ft BUR)										
6,568.8	0.00	0.00	6,547.0	-1,564.00	95.6	-447.6	-447.4	0.00	0.00	0.00
6,600.0	3.11	90.38	6,578.1	-1,595.14	95.6	-446.8	-446.5	10.00	10.00	0.00
6,700.0	13.11	90.38	6,677.0	-1,694.01	95.5	-432.7	-432.4	10.00	10.00	0.00
NIOBRARA										
6,776.4	20.75	90.38	6,750.0	-1,767.00	95.4	-410.4	-410.2	10.00	10.00	0.00
6,800.0	23.11	90.38	6,771.9	-1,788.93	95.3	-401.6	-401.4	10.00	10.00	0.00
6,900.0	33.11	90.38	6,860.0	-1,877.02	95.0	-354.5	-354.3	10.00	10.00	0.00
7,000.0	43.11	90.38	6,938.6	-1,955.60	94.6	-292.9	-292.7	10.00	10.00	0.00
7,100.0	53.11	90.38	7,005.3	-2,022.29	94.1	-218.6	-218.4	10.00	10.00	0.00
7,200.0	63.11	90.38	7,058.0	-2,075.05	93.5	-133.8	-133.6	10.00	10.00	0.00
FORT HAYS										
7,240.3	67.14	90.38	7,075.0	-2,092.00	93.3	-97.2	-97.0	10.00	10.00	0.00
7,300.0	73.11	90.38	7,095.3	-2,112.28	92.9	-41.1	-40.9	10.00	10.00	0.00
CODELL										
7,361.7	79.28	90.38	7,110.0	-2,127.00	92.5	18.8	19.0	10.00	10.00	0.00
7,400.0	83.11	90.38	7,115.9	-2,132.86	92.3	56.6	56.8	10.00	10.00	0.00
7" ICP - FRYE NORTH 7										
7,468.9	90.00	90.38	7,120.0	-2,137.00	91.8	125.3	125.5	10.00	10.00	0.00
7,500.0	90.00	90.38	7,120.0	-2,137.00	91.6	156.5	156.7	0.00	0.00	0.00
7,600.0	90.00	90.38	7,120.0	-2,137.01	91.0	256.5	256.7	0.00	0.00	0.00
7,700.0	90.00	90.38	7,120.0	-2,137.02	90.3	356.5	356.7	0.00	0.00	0.00
7,800.0	90.00	90.38	7,120.0	-2,137.02	89.6	456.5	456.7	0.00	0.00	0.00
7,900.0	90.00	90.38	7,120.0	-2,137.03	89.0	556.5	556.7	0.00	0.00	0.00
8,000.0	90.00	90.38	7,120.0	-2,137.03	88.3	656.5	656.7	0.00	0.00	0.00
8,100.0	90.00	90.38	7,120.0	-2,137.04	87.7	756.5	756.6	0.00	0.00	0.00
8,200.0	90.00	90.38	7,120.0	-2,137.05	87.0	856.5	856.6	0.00	0.00	0.00

Planning Report



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Well:	FRYE NORTH 7	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	90.38	7,120.1	-2,137.05	86.3	956.5	956.6	0.00	0.00	0.00
8,400.0	90.00	90.38	7,120.1	-2,137.06	85.7	1,056.5	1,056.6	0.00	0.00	0.00
8,500.0	90.00	90.38	7,120.1	-2,137.06	85.0	1,156.4	1,156.6	0.00	0.00	0.00
8,600.0	90.00	90.38	7,120.1	-2,137.07	84.4	1,256.4	1,256.6	0.00	0.00	0.00
8,700.0	90.00	90.38	7,120.1	-2,137.07	83.7	1,356.4	1,356.6	0.00	0.00	0.00
8,800.0	90.00	90.38	7,120.1	-2,137.08	83.0	1,456.4	1,456.6	0.00	0.00	0.00
8,900.0	90.00	90.38	7,120.1	-2,137.08	82.4	1,556.4	1,556.6	0.00	0.00	0.00
9,000.0	90.00	90.38	7,120.1	-2,137.09	81.7	1,656.4	1,656.6	0.00	0.00	0.00
9,100.0	90.00	90.38	7,120.1	-2,137.09	81.1	1,756.4	1,756.6	0.00	0.00	0.00
9,200.0	90.00	90.38	7,120.1	-2,137.10	80.4	1,856.4	1,856.6	0.00	0.00	0.00
9,300.0	90.00	90.38	7,120.1	-2,137.10	79.7	1,956.4	1,956.6	0.00	0.00	0.00
9,400.0	90.00	90.38	7,120.1	-2,137.11	79.1	2,056.4	2,056.6	0.00	0.00	0.00
9,500.0	90.00	90.38	7,120.1	-2,137.11	78.4	2,156.4	2,156.6	0.00	0.00	0.00
9,600.0	90.00	90.38	7,120.1	-2,137.11	77.8	2,256.4	2,256.6	0.00	0.00	0.00
9,700.0	90.00	90.38	7,120.1	-2,137.12	77.1	2,356.4	2,356.6	0.00	0.00	0.00
9,800.0	90.00	90.38	7,120.1	-2,137.12	76.5	2,456.4	2,456.6	0.00	0.00	0.00
9,900.0	90.00	90.38	7,120.1	-2,137.13	75.8	2,556.4	2,556.6	0.00	0.00	0.00
10,000.0	90.00	90.38	7,120.1	-2,137.13	75.1	2,656.4	2,656.6	0.00	0.00	0.00
10,100.0	90.00	90.38	7,120.1	-2,137.13	74.5	2,756.4	2,756.6	0.00	0.00	0.00
10,200.0	90.00	90.38	7,120.1	-2,137.14	73.8	2,856.4	2,856.6	0.00	0.00	0.00
10,300.0	90.00	90.38	7,120.1	-2,137.14	73.2	2,956.4	2,956.6	0.00	0.00	0.00
10,400.0	90.00	90.38	7,120.1	-2,137.14	72.5	3,056.4	3,056.6	0.00	0.00	0.00
10,500.0	90.00	90.38	7,120.1	-2,137.14	71.9	3,156.4	3,156.6	0.00	0.00	0.00
10,600.0	90.00	90.38	7,120.1	-2,137.15	71.2	3,256.4	3,256.6	0.00	0.00	0.00
10,700.0	90.00	90.38	7,120.2	-2,137.15	70.5	3,356.4	3,356.5	0.00	0.00	0.00
10,800.0	90.00	90.38	7,120.2	-2,137.15	69.9	3,456.4	3,456.5	0.00	0.00	0.00
10,900.0	90.00	90.38	7,120.2	-2,137.16	69.2	3,556.4	3,556.5	0.00	0.00	0.00
11,000.0	90.00	90.38	7,120.2	-2,137.16	68.6	3,656.4	3,656.5	0.00	0.00	0.00
11,100.0	90.00	90.38	7,120.2	-2,137.16	67.9	3,756.4	3,756.5	0.00	0.00	0.00
11,200.0	90.00	90.38	7,120.2	-2,137.16	67.3	3,856.4	3,856.5	0.00	0.00	0.00
11,300.0	90.00	90.38	7,120.2	-2,137.16	66.6	3,956.4	3,956.5	0.00	0.00	0.00
11,400.0	90.00	90.38	7,120.2	-2,137.17	66.0	4,056.4	4,056.5	0.00	0.00	0.00
11,500.0	90.00	90.38	7,120.2	-2,137.17	65.3	4,156.4	4,156.5	0.00	0.00	0.00
11,600.0	90.00	90.38	7,120.2	-2,137.17	64.6	4,256.4	4,256.5	0.00	0.00	0.00
11,700.0	90.00	90.38	7,120.2	-2,137.17	64.0	4,356.4	4,356.5	0.00	0.00	0.00
11,800.0	90.00	90.38	7,120.2	-2,137.17	63.3	4,456.4	4,456.5	0.00	0.00	0.00
11,900.0	90.00	90.38	7,120.2	-2,137.17	62.7	4,556.4	4,556.5	0.00	0.00	0.00
12,000.0	90.00	90.38	7,120.2	-2,137.17	62.0	4,656.4	4,656.5	0.00	0.00	0.00
12,100.0	90.00	90.38	7,120.2	-2,137.17	61.4	4,756.4	4,756.5	0.00	0.00	0.00
12,200.0	90.00	90.37	7,120.2	-2,137.17	60.7	4,856.4	4,856.5	0.00	0.00	0.00
12,300.0	90.00	90.37	7,120.2	-2,137.18	60.1	4,956.4	4,956.5	0.00	0.00	0.00
12,400.0	90.00	90.37	7,120.2	-2,137.18	59.4	5,056.4	5,056.5	0.00	0.00	0.00
12,500.0	90.00	90.37	7,120.2	-2,137.18	58.8	5,156.4	5,156.5	0.00	0.00	0.00
12,600.0	90.00	90.37	7,120.2	-2,137.18	58.1	5,256.4	5,256.5	0.00	0.00	0.00
12,700.0	90.00	90.37	7,120.2	-2,137.18	57.4	5,356.4	5,356.5	0.00	0.00	0.00
12,800.0	90.00	90.37	7,120.2	-2,137.18	56.8	5,456.4	5,456.5	0.00	0.00	0.00
12,900.0	90.00	90.37	7,120.2	-2,137.18	56.1	5,556.4	5,556.5	0.00	0.00	0.00
13,000.0	90.00	90.37	7,120.2	-2,137.18	55.5	5,656.4	5,656.5	0.00	0.00	0.00
13,100.0	90.00	90.37	7,120.2	-2,137.18	54.8	5,756.4	5,756.5	0.00	0.00	0.00
13,200.0	90.00	90.37	7,120.2	-2,137.17	54.2	5,856.3	5,856.5	0.00	0.00	0.00
13,300.0	90.00	90.37	7,120.2	-2,137.17	53.5	5,956.3	5,956.4	0.00	0.00	0.00
13,400.0	90.00	90.37	7,120.2	-2,137.17	52.9	6,056.3	6,056.4	0.00	0.00	0.00
13,500.0	90.00	90.37	7,120.2	-2,137.17	52.2	6,156.3	6,156.4	0.00	0.00	0.00
13,600.0	90.00	90.37	7,120.2	-2,137.17	51.6	6,256.3	6,256.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well FRYE NORTH 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4983.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4983.0usft (Original Well Elev)
Site:	SEC. 29 T7N R67W 6th P.M.	North Reference:	True
Well:	FRYE NORTH 7	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)
13,700.0	90.00	90.37	7,120.2	-2,137.17	50.9	6,356.3	6,356.4	0.00	0.00	0.00
13,800.0	90.00	90.37	7,120.2	-2,137.17	50.3	6,456.3	6,456.4	0.00	0.00	0.00
13,900.0	90.00	90.37	7,120.2	-2,137.17	49.6	6,556.3	6,556.4	0.00	0.00	0.00
14,000.0	90.00	90.37	7,120.2	-2,137.17	49.0	6,656.3	6,656.4	0.00	0.00	0.00
14,100.0	90.00	90.37	7,120.2	-2,137.16	48.3	6,756.3	6,756.4	0.00	0.00	0.00
14,200.0	90.00	90.37	7,120.2	-2,137.16	47.7	6,856.3	6,856.4	0.00	0.00	0.00
14,300.0	90.00	90.37	7,120.2	-2,137.16	47.0	6,956.3	6,956.4	0.00	0.00	0.00
14,400.0	90.00	90.37	7,120.2	-2,137.16	46.4	7,056.3	7,056.4	0.00	0.00	0.00
14,500.0	90.00	90.37	7,120.2	-2,137.16	45.7	7,156.3	7,156.4	0.00	0.00	0.00
14,600.0	90.00	90.37	7,120.2	-2,137.15	45.0	7,256.3	7,256.4	0.00	0.00	0.00
14,700.0	90.00	90.37	7,120.2	-2,137.15	44.4	7,356.3	7,356.4	0.00	0.00	0.00
14,800.0	90.00	90.37	7,120.1	-2,137.15	43.7	7,456.3	7,456.4	0.00	0.00	0.00
14,900.0	90.00	90.37	7,120.1	-2,137.15	43.1	7,556.3	7,556.4	0.00	0.00	0.00
15,000.0	90.00	90.37	7,120.1	-2,137.14	42.4	7,656.3	7,656.4	0.00	0.00	0.00
15,100.0	90.00	90.37	7,120.1	-2,137.14	41.8	7,756.3	7,756.4	0.00	0.00	0.00
15,200.0	90.00	90.37	7,120.1	-2,137.14	41.1	7,856.3	7,856.4	0.00	0.00	0.00
15,300.0	90.00	90.37	7,120.1	-2,137.13	40.5	7,956.3	7,956.4	0.00	0.00	0.00
15,400.0	90.00	90.37	7,120.1	-2,137.13	39.8	8,056.3	8,056.4	0.00	0.00	0.00
15,500.0	90.00	90.37	7,120.1	-2,137.13	39.2	8,156.3	8,156.4	0.00	0.00	0.00
15,600.0	90.00	90.37	7,120.1	-2,137.12	38.5	8,256.3	8,256.4	0.00	0.00	0.00
15,700.0	90.00	90.37	7,120.1	-2,137.12	37.9	8,356.3	8,356.4	0.00	0.00	0.00
15,800.0	90.00	90.37	7,120.1	-2,137.12	37.2	8,456.3	8,456.4	0.00	0.00	0.00
15,900.0	90.00	90.37	7,120.1	-2,137.11	36.6	8,556.3	8,556.4	0.00	0.00	0.00
16,000.0	90.00	90.37	7,120.1	-2,137.11	35.9	8,656.3	8,656.3	0.00	0.00	0.00
16,100.0	90.00	90.37	7,120.1	-2,137.10	35.3	8,756.3	8,756.3	0.00	0.00	0.00
16,200.0	90.00	90.37	7,120.1	-2,137.10	34.6	8,856.3	8,856.3	0.00	0.00	0.00
16,300.0	90.00	90.37	7,120.1	-2,137.09	34.0	8,956.3	8,956.3	0.00	0.00	0.00
16,400.0	90.00	90.37	7,120.1	-2,137.09	33.3	9,056.3	9,056.3	0.00	0.00	0.00
16,500.0	90.00	90.37	7,120.1	-2,137.09	32.7	9,156.3	9,156.3	0.00	0.00	0.00
16,600.0	90.00	90.37	7,120.1	-2,137.08	32.0	9,256.3	9,256.3	0.00	0.00	0.00
16,700.0	90.00	90.37	7,120.1	-2,137.08	31.4	9,356.3	9,356.3	0.00	0.00	0.00
16,800.0	90.00	90.37	7,120.1	-2,137.07	30.7	9,456.3	9,456.3	0.00	0.00	0.00
16,900.0	90.00	90.37	7,120.1	-2,137.07	30.1	9,556.3	9,556.3	0.00	0.00	0.00
17,000.0	90.00	90.37	7,120.1	-2,137.06	29.4	9,656.3	9,656.3	0.00	0.00	0.00
17,100.0	90.00	90.37	7,120.1	-2,137.05	28.8	9,756.3	9,756.3	0.00	0.00	0.00
17,200.0	90.00	90.37	7,120.0	-2,137.05	28.2	9,856.3	9,856.3	0.00	0.00	0.00
17,300.0	90.00	90.37	7,120.0	-2,137.04	27.5	9,956.3	9,956.3	0.00	0.00	0.00
17,400.0	90.00	90.37	7,120.0	-2,137.04	26.9	10,056.3	10,056.3	0.00	0.00	0.00
17,500.0	90.00	90.37	7,120.0	-2,137.03	26.2	10,156.3	10,156.3	0.00	0.00	0.00
17,600.0	90.00	90.37	7,120.0	-2,137.02	25.6	10,256.3	10,256.3	0.00	0.00	0.00
17,700.0	90.00	90.37	7,120.0	-2,137.02	24.9	10,356.3	10,356.3	0.00	0.00	0.00
17,800.0	90.00	90.37	7,120.0	-2,137.01	24.3	10,456.3	10,456.3	0.00	0.00	0.00
17,900.0	90.00	90.37	7,120.0	-2,137.01	23.6	10,556.2	10,556.3	0.00	0.00	0.00
BHL - FRYE NORTH 7										
17,984.0	90.00	90.37	7,120.0	-2,137.00	23.1	10,640.2	10,640.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well FRYE NORTH 7
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4983.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4983.0usft (Original Well Elev)
Site:	SEC. 29 T7N R67W 6th P.M.	North Reference:	True
Well:	FRYE NORTH 7	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,405.9	3,398.0	PARKMAN		0.00	
4,141.4	4,130.0	SUSSEX		0.00	
4,517.2	4,504.0	SHANNON		0.00	
6,776.4	6,750.0	NIOBRARA		0.00	
7,240.3	7,075.0	FORT HAYS		0.00	
7,361.7	7,110.0	CODELL		0.00	

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 (2°/100ft BUR)
1,828.8	1,828.4	2.8	-13.3	EOB TO 5.58° INC
6,260.0	6,238.6	92.8	-434.3	END OF TANGENT
6,538.8	6,517.0	95.6	-447.6	EOD TO VERTICAL
6,568.8	6,547.0	95.6	-447.6	KOP (10°/100ft BUR)
7,468.9	7,120.0	91.8	125.3	7" ICP - FRYE NORTH 7
17,984.0	7,120.0	23.1	10,640.2	BHL - FRYE NORTH 7