

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

NW NE SEC. 4 T1S R67W 6th P.M.

SELTZER 4

ORIGINAL WELLBORE

13 October, 2015

Plan: PROPOSAL #1



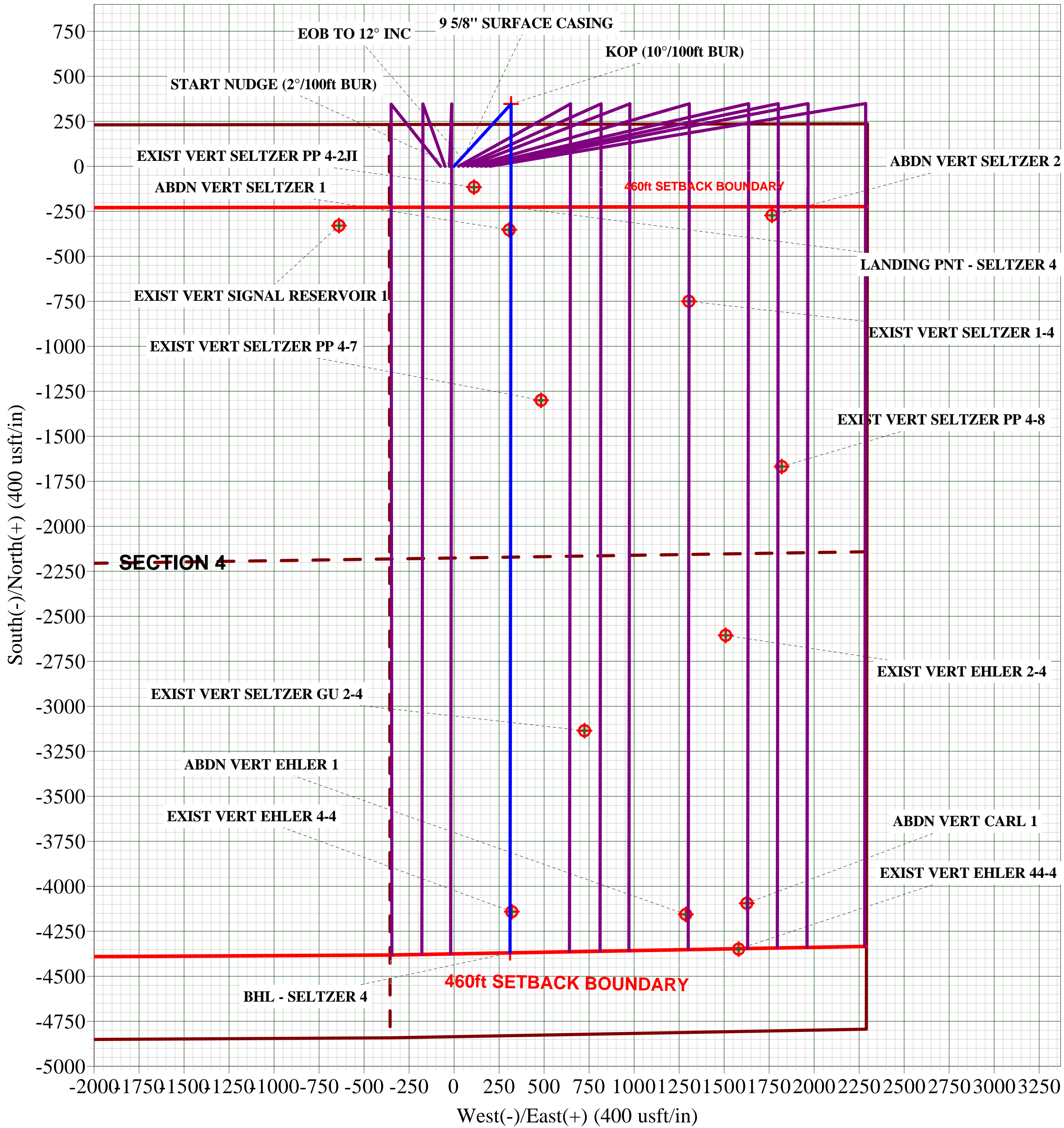
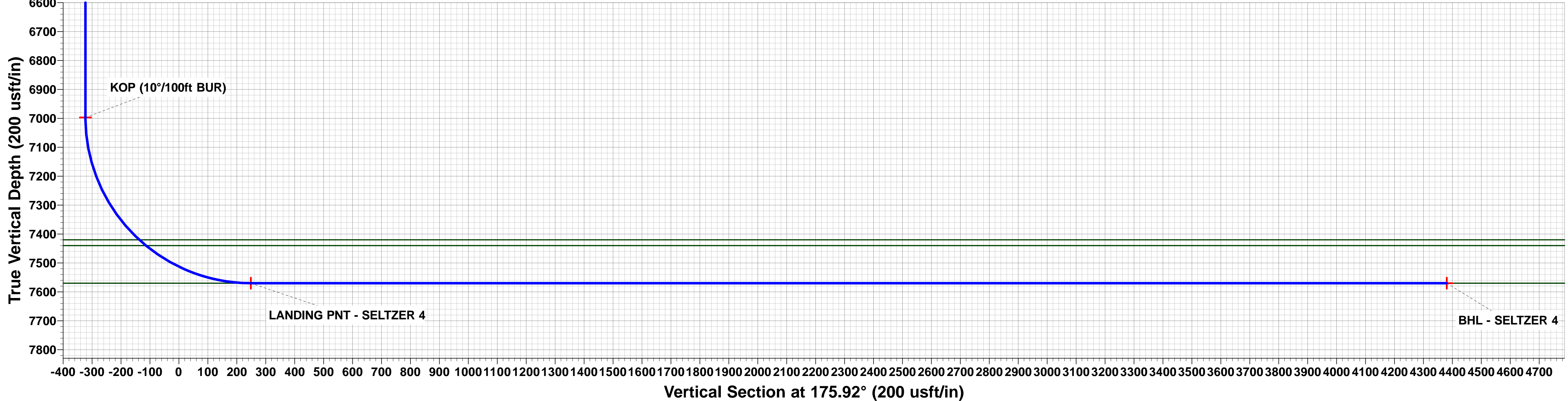
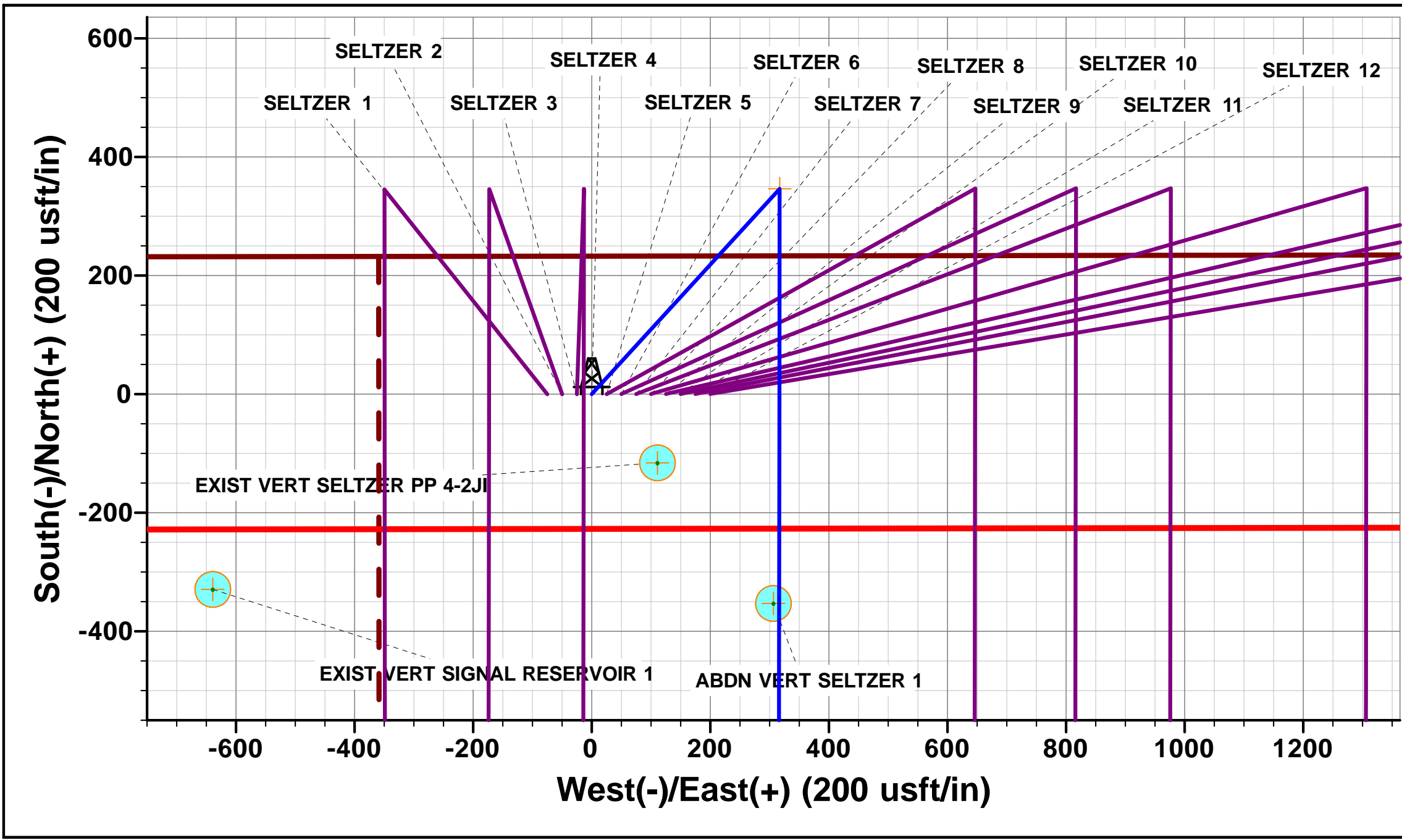
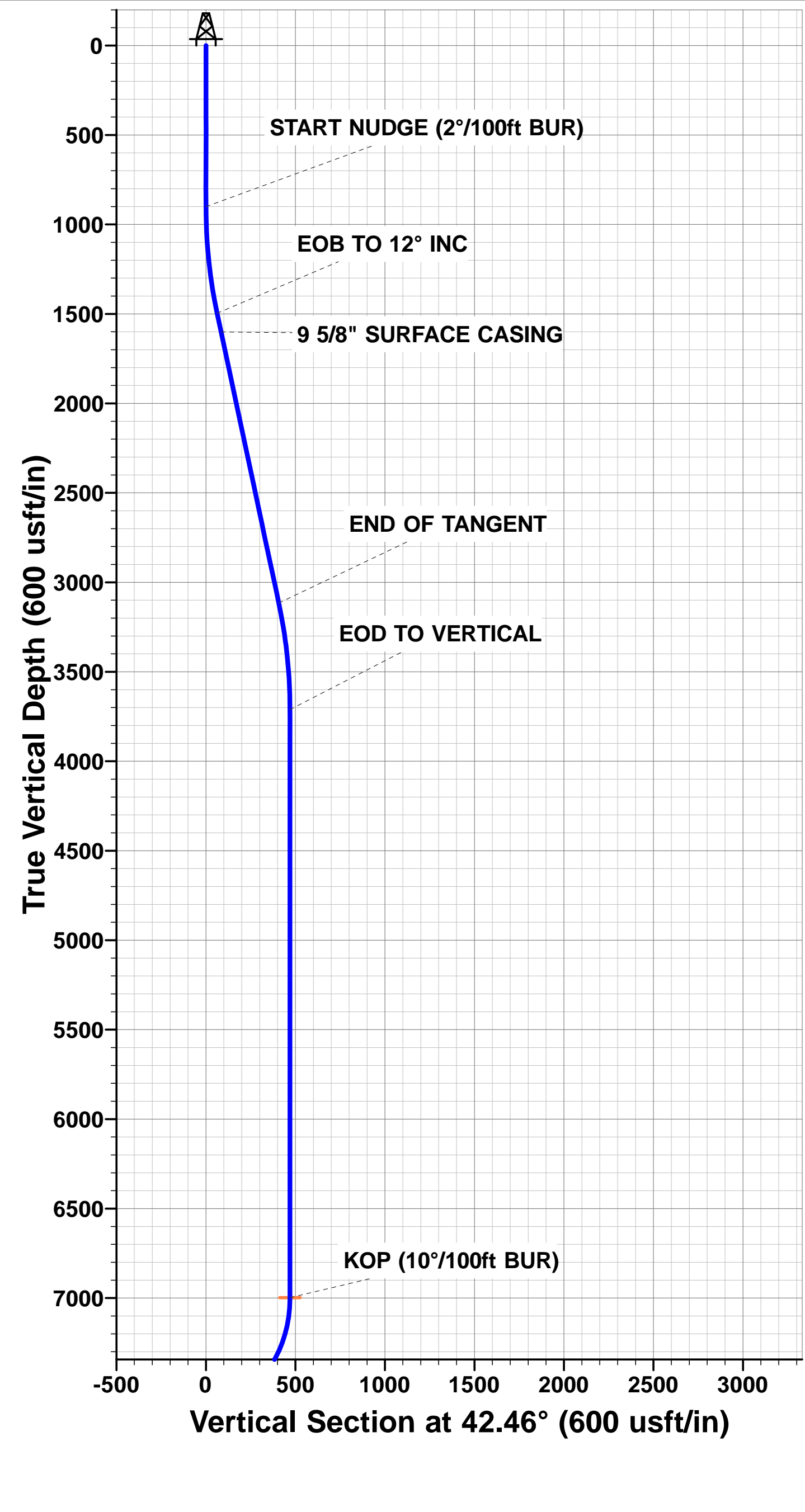


Project: WELD COUNTY, COLORADO (NAD 83)
Site: NW NE SEC. 4 T1S R67W 6th P.M.
Well: SELTZER 4
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation	
900.0	900.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)	
1495.7	1500.1	12.00	42.46	46.2	42.3	-43.1	62.6	EOB TO 12° INC	
1600.0	1606.7	12.00	42.46	62.6	57.2	-58.3	84.8	9 5/8" SURFACE CASING	
3115.3	3155.8	12.00	42.46	300.2	274.7	-279.9	406.9	END OF TANGENT	
3711.0	3756.0	0.00	0.00	346.4	317.0	-323.0	469.6	EOD TO VERTICAL	
6997.0	7042.0	0.00	0.00	346.4	317.0	-323.0	469.6	KOP (10°/100ft BUR)	
7570.0	7942.0	90.00	180.07	-226.6	316.3	248.5	1042.5	LANDING PNT - SELTZER 4	
7570.0	12085.0	90.00	180.07	-4369.6	311.3	4380.7	5185.5	BHL - SELTZER 4	

PROPOSED LOCAL COORDINATES:
SHL: 233ft FNL & 2297ft FEL Sec 4
LANDING PNT: 460ft FNL & 1980ft FEL Sec 4
BHL: 460ft FSL & 1980ft FEL Sec 4

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - SELTZER 4	6997.0	346.4	317.0	40.000669	-104.891455
LANDING PNT - SELTZER 4	7570.0	-226.6	316.3	39.999096	-104.891457
BHL - SELTZER 4	7570.0	-4369.6	311.3	39.987723	-104.891475



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 4
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5098.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5098.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 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	NW NE SEC. 4 T1S R67W 6th P.M.		
Site Position:		Northing:	1,243,328.66 usft
From:	Lat/Long	Easting:	3,170,368.61 usft
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft
		Latitude:	39.999719
		Longitude:	-104.891872
		Grid Convergence:	0.39 °

Well	SELTZER 4		
Well Position	+N/-S	-0.4 usft	Northing:
	+E/-W	-200.0 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)
	IGRF2015	13/10/2015	8.42	66.55	52,358

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 (°)
	7,570.0	0.0	0.0	175.92

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	-5,098.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	-4,198.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.1	12.00	42.46	1,495.7	-3,602.3	46.2	42.3	2.00	2.00	0.00	42.46	
3,155.8	12.00	42.46	3,115.3	-1,982.7	300.2	274.7	0.00	0.00	0.00	0.00	
3,756.0	0.00	0.00	3,711.0	-1,387.0	346.4	317.0	2.00	-2.00	0.00	180.00	
7,042.0	0.00	0.00	6,997.0	1,899.0	346.4	317.0	0.00	0.00	0.00	0.00	KOP - SELTZER 4
7,942.0	90.00	180.07	7,570.0	2,472.0	-226.6	316.3	10.00	10.00	-19.99	180.07	LANDING PNT - SE
12,085.0	90.00	180.07	7,570.0	2,472.0	-4,369.6	311.3	0.00	0.00	0.00	-2.38	BHL - SELTZER 4

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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5098.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 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	5,098.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,998.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,898.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,798.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,698.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,598.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,498.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,398.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	4,298.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
900.0	0.00	0.00	900.0	4,198.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	2.00	42.46	1,000.0	4,098.02	1.3	1.2	-1.2	2.00	2.00	0.00
1,100.0	4.00	42.46	1,099.8	3,998.16	5.1	4.7	-4.8	2.00	2.00	0.00
1,200.0	6.00	42.46	1,199.5	3,898.55	11.6	10.6	-10.8	2.00	2.00	0.00
1,300.0	8.00	42.46	1,298.7	3,799.30	20.6	18.8	-19.2	2.00	2.00	0.00
1,400.0	10.00	42.46	1,397.5	3,700.53	32.1	29.4	-29.9	2.00	2.00	0.00
1,500.0	12.00	42.46	1,495.6	3,602.38	46.2	42.3	-43.1	2.00	2.00	0.00
EOB TO 12° INC										
1,500.1	12.00	42.46	1,495.7	3,602.28	46.2	42.3	-43.1	2.00	2.00	0.00
1,600.0	12.00	42.46	1,593.4	3,504.56	61.5	56.3	-57.4	0.00	0.00	0.00
9 5/8" SURFACE CASING										
1,606.7	12.00	42.46	1,600.0	3,498.00	62.6	57.2	-58.3	0.00	0.00	0.00
1,700.0	12.00	42.46	1,691.3	3,406.75	76.9	70.3	-71.7	0.00	0.00	0.00
1,800.0	12.00	42.46	1,789.1	3,308.93	92.2	84.4	-86.0	0.00	0.00	0.00
1,900.0	12.00	42.46	1,886.9	3,211.12	107.5	98.4	-100.3	0.00	0.00	0.00
2,000.0	12.00	42.46	1,984.7	3,113.31	122.9	112.5	-114.6	0.00	0.00	0.00
2,100.0	12.00	42.46	2,082.5	3,015.49	138.2	126.5	-128.9	0.00	0.00	0.00
2,200.0	12.00	42.46	2,180.3	2,917.68	153.6	140.5	-143.2	0.00	0.00	0.00
2,300.0	12.00	42.46	2,278.1	2,819.86	168.9	154.6	-157.5	0.00	0.00	0.00
2,400.0	12.00	42.46	2,375.9	2,722.05	184.2	168.6	-171.8	0.00	0.00	0.00
2,500.0	12.00	42.46	2,473.8	2,624.24	199.6	182.6	-186.1	0.00	0.00	0.00
2,600.0	12.00	42.46	2,571.6	2,526.42	214.9	196.7	-200.4	0.00	0.00	0.00
2,700.0	12.00	42.46	2,669.4	2,428.61	230.3	210.7	-214.7	0.00	0.00	0.00
2,800.0	12.00	42.46	2,767.2	2,330.79	245.6	224.8	-229.0	0.00	0.00	0.00
2,900.0	12.00	42.46	2,865.0	2,232.98	261.0	238.8	-243.3	0.00	0.00	0.00
3,000.0	12.00	42.46	2,962.8	2,135.17	276.3	252.8	-257.6	0.00	0.00	0.00
3,100.0	12.00	42.46	3,060.6	2,037.35	291.6	266.9	-271.9	0.00	0.00	0.00
END OF TANGENT										
3,155.8	12.00	42.46	3,115.3	1,982.72	300.2	274.7	-279.9	0.00	0.00	0.00
3,200.0	11.12	42.46	3,158.5	1,939.47	306.7	280.7	-286.0	2.00	-2.00	0.00
3,300.0	9.12	42.46	3,257.0	1,841.03	319.7	292.6	-298.1	2.00	-2.00	0.00
3,400.0	7.12	42.46	3,356.0	1,742.04	330.1	302.1	-307.8	2.00	-2.00	0.00
3,500.0	5.12	42.46	3,455.4	1,642.61	338.0	309.3	-315.1	2.00	-2.00	0.00
3,600.0	3.12	42.46	3,555.1	1,542.88	343.3	314.1	-320.1	2.00	-2.00	0.00
3,700.0	1.12	42.46	3,655.1	1,442.95	346.0	316.6	-322.6	2.00	-2.00	0.00
EOD TO VERTICAL										
3,756.0	0.00	0.00	3,711.0	1,387.00	346.4	317.0	-323.0	2.00	-2.00	0.00
3,800.0	0.00	0.00	3,755.0	1,342.95	346.4	317.0	-323.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,855.0	1,242.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,955.0	1,142.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,055.0	1,042.95	346.4	317.0	-323.0	0.00	0.00	0.00
PARKMAN										
4,175.0	0.00	0.00	4,130.0	968.00	346.4	317.0	-323.0	0.00	0.00	0.00

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Well:	SELTZER 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)
4,200.0	0.00	0.00	4,155.0	942.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,255.0	842.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,355.0	742.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,455.0	642.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,555.0	542.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,655.0	442.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,755.0	342.95	346.4	317.0	-323.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,855.0	242.95	346.4	317.0	-323.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,955.0	142.95	346.4	317.0	-323.0	0.00	0.00	0.00
SUSSEX										
5,015.0	0.00	0.00	4,970.0	128.00	346.4	317.0	-323.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,055.0	42.95	346.4	317.0	-323.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,155.0	-57.05	346.4	317.0	-323.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,255.0	-157.05	346.4	317.0	-323.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,355.0	-257.05	346.4	317.0	-323.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,455.0	-357.05	346.4	317.0	-323.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,555.0	-457.05	346.4	317.0	-323.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,655.0	-557.05	346.4	317.0	-323.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,755.0	-657.05	346.4	317.0	-323.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,855.0	-757.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,955.0	-857.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,055.0	-957.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,155.0	-1,057.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,255.0	-1,157.05	346.4	317.0	-323.0	0.00	0.00	0.00
SHANNON										
6,325.0	0.00	0.00	6,280.0	-1,182.00	346.4	317.0	-323.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,355.0	-1,257.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,455.0	-1,357.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,555.0	-1,457.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,655.0	-1,557.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,755.0	-1,657.05	346.4	317.0	-323.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,855.0	-1,757.05	346.4	317.0	-323.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,955.0	-1,857.05	346.4	317.0	-323.0	0.00	0.00	0.00
KOP (10°/100ft BUR)										
7,042.0	0.00	0.00	6,997.0	-1,899.00	346.4	317.0	-323.0	0.00	0.00	0.00
7,100.0	5.80	180.07	7,054.9	-1,956.95	343.5	317.0	-320.1	10.00	10.00	0.00
7,200.0	15.80	180.07	7,153.1	-2,055.05	324.7	317.0	-301.4	10.00	10.00	0.00
7,300.0	25.80	180.07	7,246.4	-2,148.41	289.3	316.9	-266.0	10.00	10.00	0.00
7,400.0	35.80	180.07	7,332.2	-2,234.20	238.1	316.9	-215.0	10.00	10.00	0.00
7,500.0	45.80	180.07	7,407.8	-2,309.80	172.9	316.8	-149.9	10.00	10.00	0.00
SHARON SPRINGS										
7,517.8	47.58	180.07	7,420.0	-2,322.00	159.9	316.8	-137.0	10.00	10.00	0.00
NIORARA										
7,548.3	50.64	180.07	7,440.0	-2,342.00	136.8	316.7	-114.0	10.00	10.00	0.00
7,600.0	55.80	180.07	7,470.9	-2,372.92	95.5	316.7	-72.7	10.00	10.00	0.00
7,700.0	65.80	180.07	7,519.6	-2,421.64	8.3	316.6	14.2	10.00	10.00	0.00
7,800.0	75.80	180.07	7,552.5	-2,454.49	-86.0	316.5	108.3	10.00	10.00	0.00
7,900.0	85.80	180.07	7,568.5	-2,470.46	-184.6	316.4	206.6	10.00	10.00	0.00
LANDING PNT - SELTZER 4 - NIO B										
7,942.0	90.00	180.07	7,570.0	-2,472.00	-226.6	316.3	248.5	10.00	10.00	0.00
8,000.0	90.00	180.07	7,570.0	-2,472.00	-284.6	316.2	306.3	0.00	0.00	0.00
8,100.0	90.00	180.07	7,570.0	-2,472.01	-384.6	316.1	406.1	0.00	0.00	0.00
8,200.0	90.00	180.07	7,570.0	-2,472.02	-484.6	316.0	505.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 4
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5098.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5098.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 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)
8,300.0	90.00	180.07	7,570.0	-2,472.02	-584.6	315.9	605.6	0.00	0.00	0.00
8,400.0	90.00	180.07	7,570.0	-2,472.03	-684.6	315.8	705.3	0.00	0.00	0.00
8,500.0	90.00	180.07	7,570.0	-2,472.03	-784.6	315.6	805.0	0.00	0.00	0.00
8,600.0	90.00	180.07	7,570.0	-2,472.04	-884.6	315.5	904.8	0.00	0.00	0.00
8,700.0	90.00	180.07	7,570.0	-2,472.04	-984.6	315.4	1,004.5	0.00	0.00	0.00
8,800.0	90.00	180.07	7,570.0	-2,472.04	-1,084.6	315.3	1,104.2	0.00	0.00	0.00
8,900.0	90.00	180.07	7,570.0	-2,472.05	-1,184.6	315.2	1,204.0	0.00	0.00	0.00
9,000.0	90.00	180.07	7,570.1	-2,472.05	-1,284.6	315.0	1,303.7	0.00	0.00	0.00
9,100.0	90.00	180.07	7,570.1	-2,472.05	-1,384.6	314.9	1,403.5	0.00	0.00	0.00
9,200.0	90.00	180.07	7,570.1	-2,472.06	-1,484.6	314.8	1,503.2	0.00	0.00	0.00
9,300.0	90.00	180.07	7,570.1	-2,472.06	-1,584.6	314.7	1,602.9	0.00	0.00	0.00
9,400.0	90.00	180.07	7,570.1	-2,472.06	-1,684.6	314.5	1,702.7	0.00	0.00	0.00
9,500.0	90.00	180.07	7,570.1	-2,472.06	-1,784.6	314.4	1,802.4	0.00	0.00	0.00
9,600.0	90.00	180.07	7,570.1	-2,472.06	-1,884.6	314.3	1,902.2	0.00	0.00	0.00
9,700.0	90.00	180.07	7,570.1	-2,472.06	-1,984.6	314.2	2,001.9	0.00	0.00	0.00
9,800.0	90.00	180.07	7,570.1	-2,472.07	-2,084.6	314.1	2,101.6	0.00	0.00	0.00
9,900.0	90.00	180.07	7,570.1	-2,472.07	-2,184.6	313.9	2,201.4	0.00	0.00	0.00
10,000.0	90.00	180.07	7,570.1	-2,472.07	-2,284.6	313.8	2,301.1	0.00	0.00	0.00
10,100.0	90.00	180.07	7,570.1	-2,472.07	-2,384.6	313.7	2,400.8	0.00	0.00	0.00
10,200.0	90.00	180.07	7,570.1	-2,472.07	-2,484.6	313.6	2,500.6	0.00	0.00	0.00
10,300.0	90.00	180.07	7,570.1	-2,472.07	-2,584.6	313.5	2,600.3	0.00	0.00	0.00
10,400.0	90.00	180.07	7,570.1	-2,472.06	-2,684.6	313.3	2,700.1	0.00	0.00	0.00
10,500.0	90.00	180.07	7,570.1	-2,472.06	-2,784.6	313.2	2,799.8	0.00	0.00	0.00
10,600.0	90.00	180.07	7,570.1	-2,472.06	-2,884.6	313.1	2,899.5	0.00	0.00	0.00
10,700.0	90.00	180.07	7,570.1	-2,472.06	-2,984.6	313.0	2,999.3	0.00	0.00	0.00
10,800.0	90.00	180.07	7,570.1	-2,472.06	-3,084.6	312.9	3,099.0	0.00	0.00	0.00
10,900.0	90.00	180.07	7,570.1	-2,472.05	-3,184.6	312.7	3,198.8	0.00	0.00	0.00
11,000.0	90.00	180.07	7,570.1	-2,472.05	-3,284.6	312.6	3,298.5	0.00	0.00	0.00
11,100.0	90.00	180.07	7,570.0	-2,472.05	-3,384.6	312.5	3,398.2	0.00	0.00	0.00
11,200.0	90.00	180.07	7,570.0	-2,472.04	-3,484.6	312.4	3,498.0	0.00	0.00	0.00
11,300.0	90.00	180.07	7,570.0	-2,472.04	-3,584.6	312.3	3,597.7	0.00	0.00	0.00
11,400.0	90.00	180.07	7,570.0	-2,472.04	-3,684.6	312.1	3,697.4	0.00	0.00	0.00
11,500.0	90.00	180.07	7,570.0	-2,472.03	-3,784.6	312.0	3,797.2	0.00	0.00	0.00
11,600.0	90.00	180.07	7,570.0	-2,472.03	-3,884.6	311.9	3,896.9	0.00	0.00	0.00
11,700.0	90.00	180.07	7,570.0	-2,472.02	-3,984.6	311.8	3,996.7	0.00	0.00	0.00
11,800.0	90.00	180.07	7,570.0	-2,472.02	-4,084.6	311.7	4,096.4	0.00	0.00	0.00
11,900.0	90.00	180.07	7,570.0	-2,472.01	-4,184.6	311.5	4,196.1	0.00	0.00	0.00
12,000.0	90.00	180.07	7,570.0	-2,472.01	-4,284.6	311.4	4,295.9	0.00	0.00	0.00
BHL - SELTZER 4										
12,085.0	90.00	180.07	7,570.0	-2,472.00	-4,369.6	311.3	4,380.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 4
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5098.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5098.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 4	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,175.0	4,130.0	PARKMAN			
5,015.0	4,970.0	SUSSEX			
6,325.0	6,280.0	SHANNON			
7,517.8	7,420.0	SHARON SPRINGS			
7,548.3	7,440.0	NIOBRARA			
7,942.0	7,570.0	NIO B			

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
900.0	900.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,500.1	1,495.7	46.2	42.3	EOB TO 12° INC
1,606.7	1,600.0	62.6	57.2	9 5/8" SURFACE CASING
3,155.8	3,115.3	300.2	274.7	END OF TANGENT
3,756.0	3,711.0	346.4	317.0	EOD TO VERTICAL
7,042.0	6,997.0	346.4	317.0	KOP (10°/100ft BUR)
7,942.0	7,570.0	-226.6	316.3	LANDING PNT - SELTZER 4
12,085.0	7,570.0	-4,369.6	311.3	BHL - SELTZER 4