

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

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

SELTZER 12

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 12
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

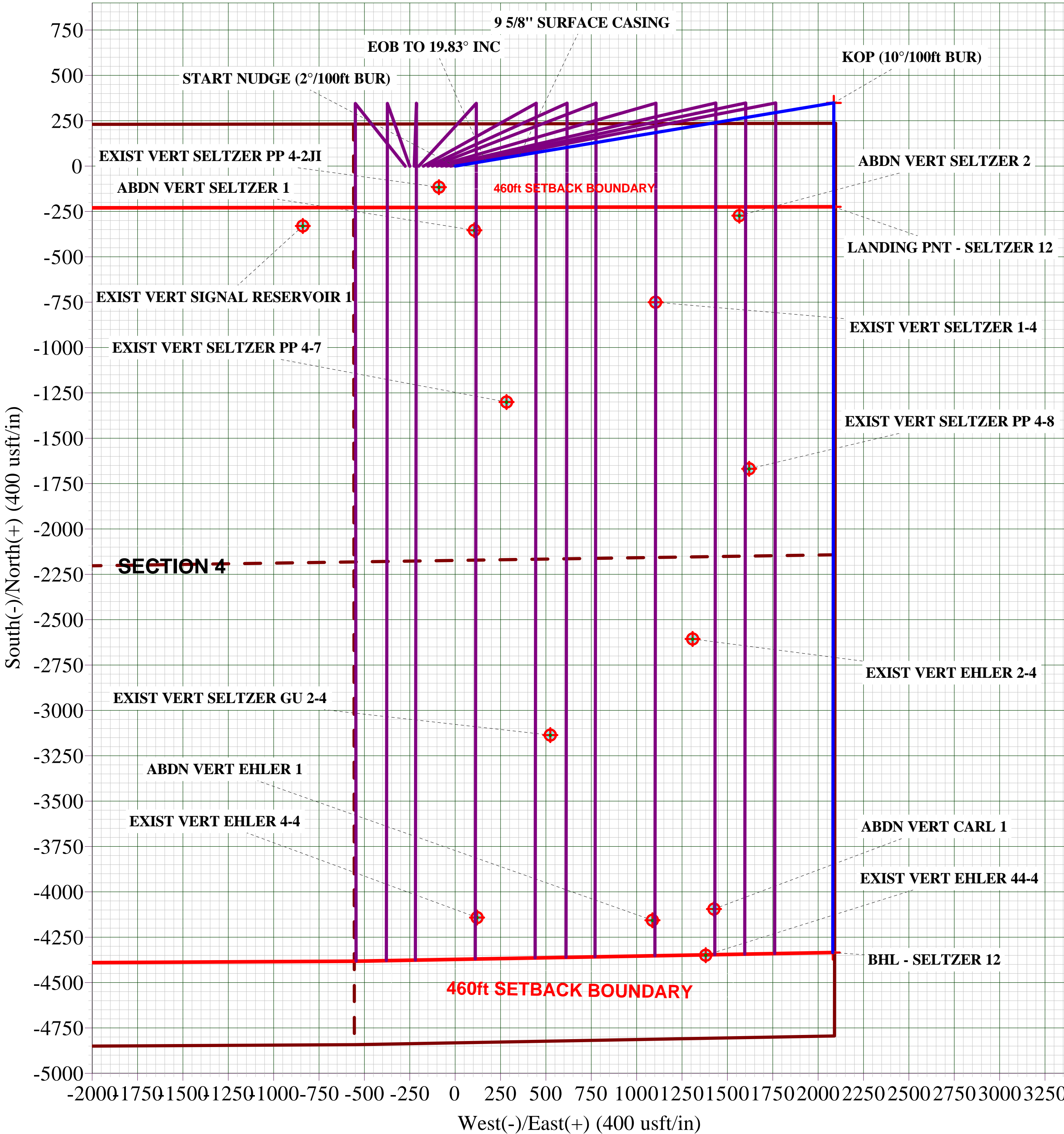
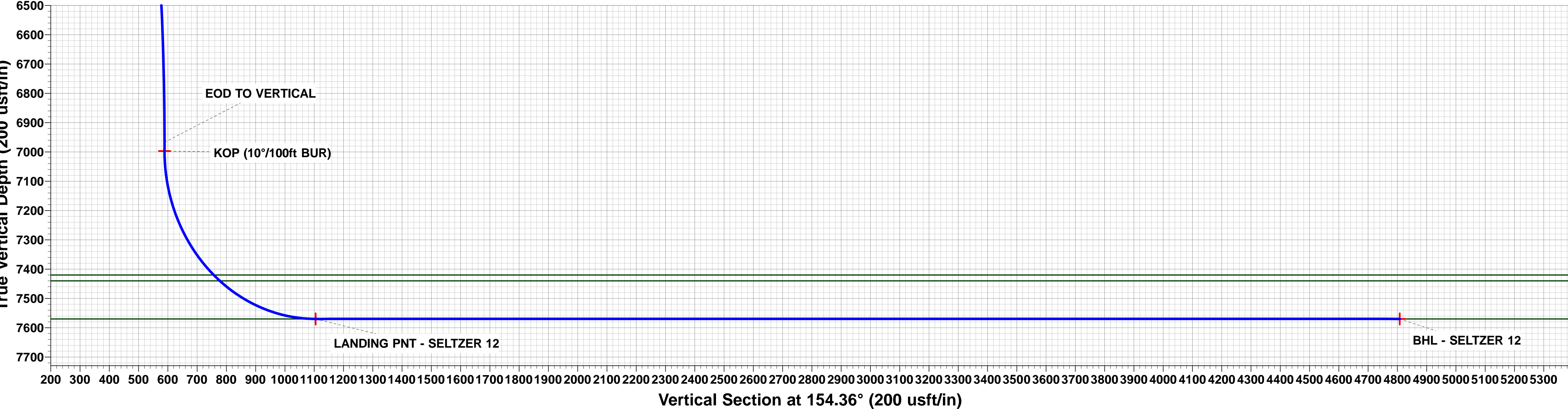
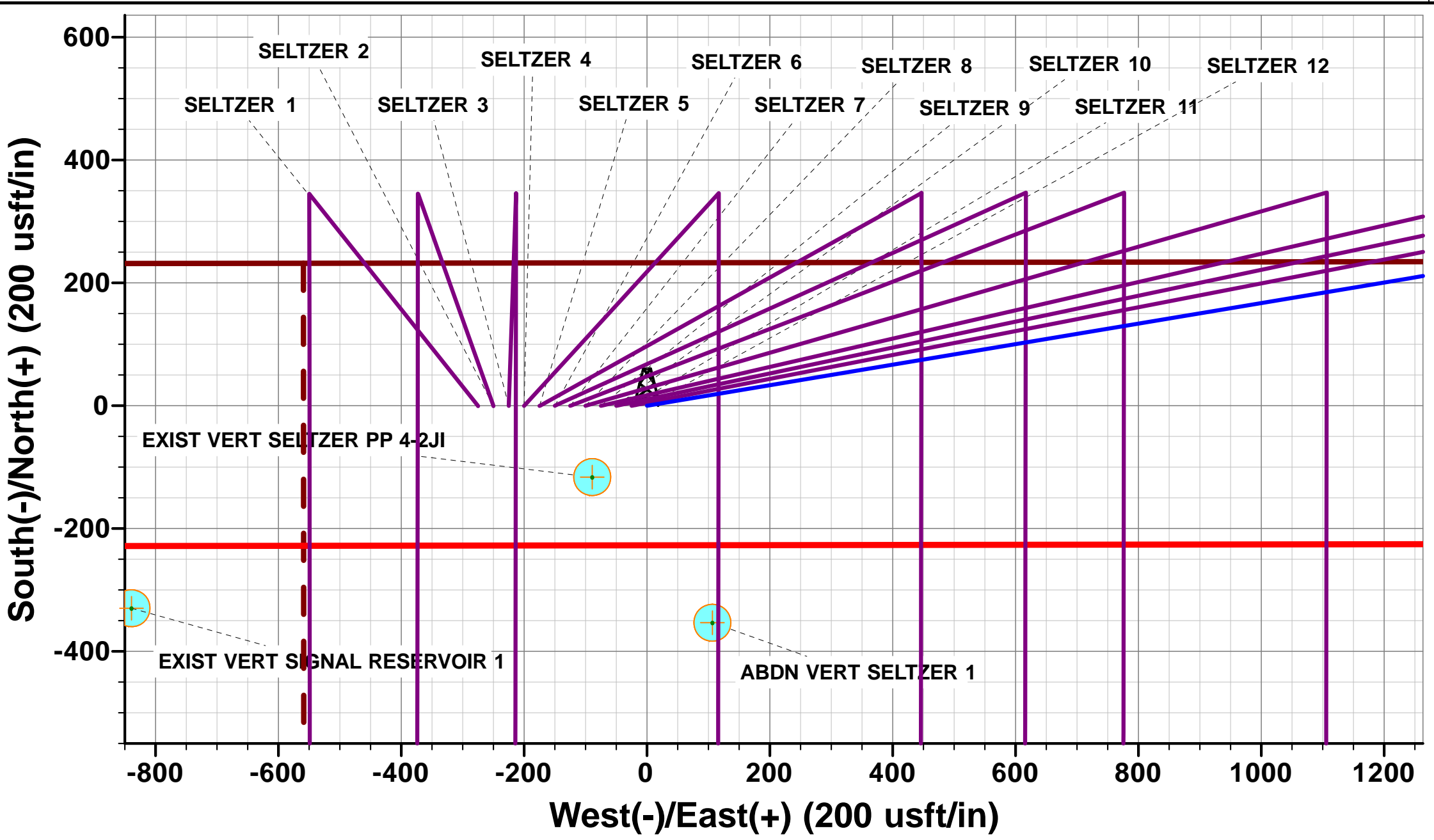
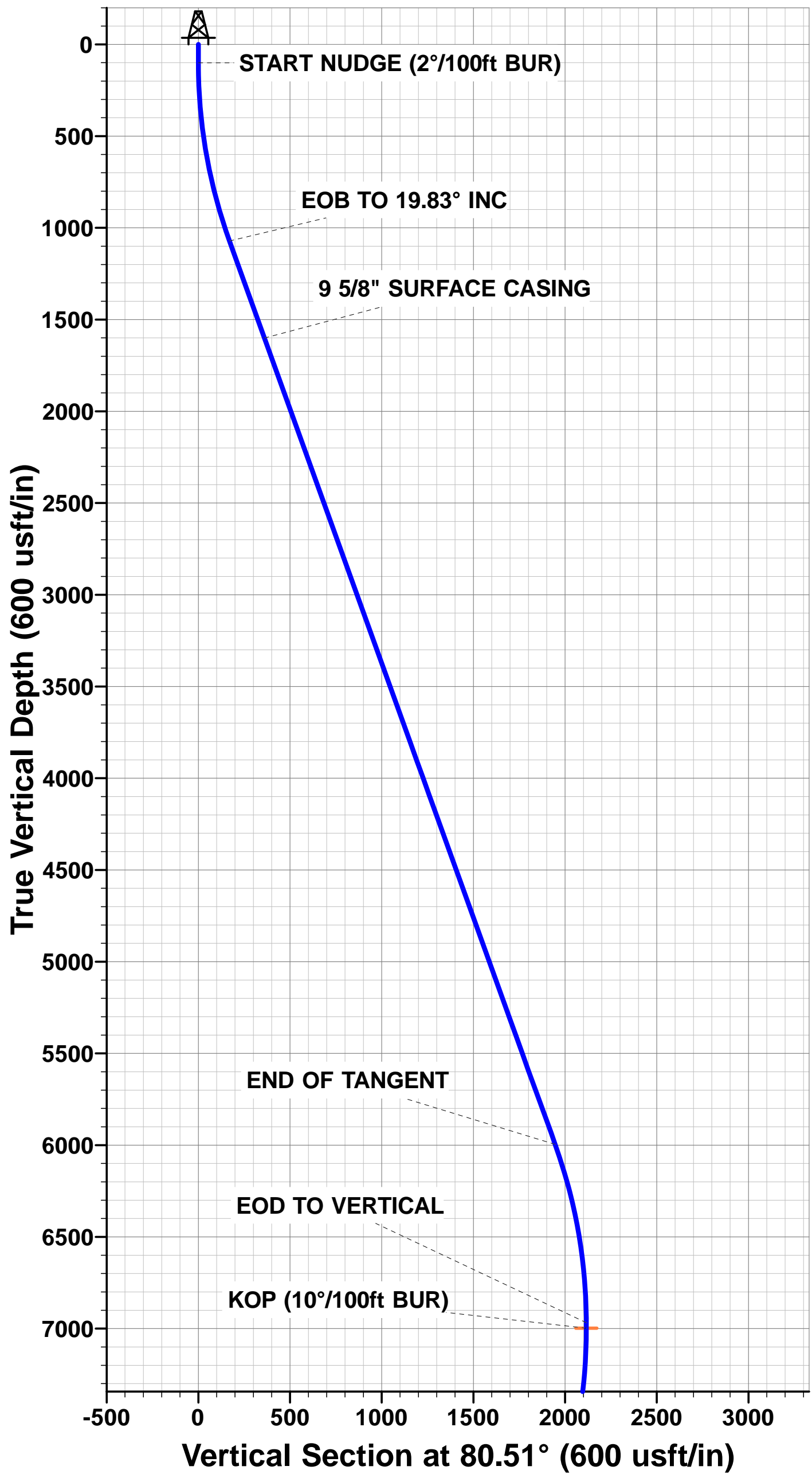
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation
100.0	100.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1072.0	1091.6	19.83	80.51	28.0	167.6	47.3	169.9	EOB TO 19.83° INC
1600.0	1653.0	19.83	80.51	59.4	355.4	100.3	360.4	9 5/8" SURFACE CASING
5995.0	6325.1	19.83	80.51	320.7	1918.9	541.4	1945.5	END OF TANGENT
6967.0	7316.8	0.00	0.00	348.7	2086.5	588.6	2115.4	EOD TO VERTICAL
6997.0	7346.8	0.00	0.00	348.7	2086.5	588.6	2115.4	KOP (10°/100ft BUR)
7570.0	8246.9	90.00	180.07	-224.3	2085.8	1104.9	2688.5	LANDING POINT - SELTZER 12
7570.0	12357.1	90.00	180.07	-4334.6	2080.9	4808.2	6798.7	BHL - SELTZER 12

PROPOSED LOCAL COORDINATES:

SHL: 233ft FNL & 2097ft FEL Sec 4
LANDING PNT: 460ft FNL & 10ft FEL Sec 4
BHL: 460ft FSL & 10ft FEL Sec 4

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - SELTZER 12	6997.0	348.7	2086.5	40.000676	-104.884424
BHL - SELTZER 12	7570.0	-4334.6	2080.9	39.987820	-104.884446
LANDING PNT - SELTZER 12	7570.0	-224.3	2085.8	39.999103	-104.884427



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 12
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5096.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5096.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 12	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 12		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	39.999719
		Longitude:	-104.891872
		Ground Level:	5,080.0 usft

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	154.36

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	-5,096.0	0.0	0.0	0.00	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	-4,996.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,091.6	19.83	80.51	1,072.0	-4,024.0	28.0	167.6	2.00	2.00	0.00	80.51	
6,325.1	19.83	80.51	5,995.0	899.0	320.7	1,918.9	0.00	0.00	0.00	0.00	
7,316.8	0.00	0.00	6,967.0	1,871.0	348.7	2,086.5	2.00	-2.00	0.00	180.00	
7,346.8	0.00	0.00	6,997.0	1,901.0	348.7	2,086.5	0.00	0.00	0.00	0.00	KOP - SELTZER 12
8,246.9	90.00	180.07	7,570.0	2,474.0	-224.3	2,085.8	10.00	10.00	-19.99	180.07	LANDING PNT - SE
12,357.1	90.00	180.07	7,570.0	2,474.0	-4,334.6	2,080.9	0.00	0.00	0.00	110.38	BHL - SELTZER 12

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5096.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 12	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	5,096.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
100.0	0.00	0.00	100.0	4,996.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	2.00	80.51	200.0	4,896.02	0.3	1.7	0.5	2.00	2.00	0.00
300.0	4.00	80.51	299.8	4,796.16	1.2	6.9	1.9	2.00	2.00	0.00
400.0	6.00	80.51	399.5	4,696.55	2.6	15.5	4.4	2.00	2.00	0.00
500.0	8.00	80.51	498.7	4,597.30	4.6	27.5	7.8	2.00	2.00	0.00
600.0	10.00	80.51	597.5	4,498.53	7.2	42.9	12.1	2.00	2.00	0.00
700.0	12.00	80.51	695.6	4,400.38	10.3	61.7	17.4	2.00	2.00	0.00
800.0	14.00	80.51	793.1	4,302.94	14.0	83.9	23.7	2.00	2.00	0.00
900.0	16.00	80.51	889.6	4,206.36	18.3	109.5	30.9	2.00	2.00	0.00
1,000.0	18.00	80.51	985.3	4,110.73	23.1	138.3	39.0	2.00	2.00	0.00
EOB TO 19.83° INC										
1,091.6	19.83	80.51	1,072.0	4,024.05	28.0	167.6	47.3	2.00	2.00	0.00
1,100.0	19.83	80.51	1,079.8	4,016.18	28.5	170.4	48.1	0.00	0.00	0.00
1,200.0	19.83	80.51	1,173.9	3,922.11	34.1	203.9	57.5	0.00	0.00	0.00
1,300.0	19.83	80.51	1,268.0	3,828.04	39.7	237.3	67.0	0.00	0.00	0.00
1,400.0	19.83	80.51	1,362.0	3,733.97	45.3	270.8	76.4	0.00	0.00	0.00
1,500.0	19.83	80.51	1,456.1	3,639.91	50.8	304.2	85.8	0.00	0.00	0.00
1,600.0	19.83	80.51	1,550.2	3,545.84	56.4	337.7	95.3	0.00	0.00	0.00
9 5/8" SURFACE CASING										
1,653.0	19.83	80.51	1,600.0	3,496.00	59.4	355.4	100.3	0.00	0.00	0.00
1,700.0	19.83	80.51	1,644.2	3,451.77	62.0	371.2	104.7	0.00	0.00	0.00
1,800.0	19.83	80.51	1,738.3	3,357.70	67.6	404.6	114.2	0.00	0.00	0.00
1,900.0	19.83	80.51	1,832.4	3,263.63	73.2	438.1	123.6	0.00	0.00	0.00
2,000.0	19.83	80.51	1,926.4	3,169.56	78.8	471.6	133.0	0.00	0.00	0.00
2,100.0	19.83	80.51	2,020.5	3,075.49	84.4	505.0	142.5	0.00	0.00	0.00
2,200.0	19.83	80.51	2,114.6	2,981.42	90.0	538.5	151.9	0.00	0.00	0.00
2,300.0	19.83	80.51	2,208.6	2,887.36	95.6	572.0	161.4	0.00	0.00	0.00
2,400.0	19.83	80.51	2,302.7	2,793.29	101.2	605.4	170.8	0.00	0.00	0.00
2,500.0	19.83	80.51	2,396.8	2,699.22	106.8	638.9	180.2	0.00	0.00	0.00
2,600.0	19.83	80.51	2,490.9	2,605.15	112.4	672.3	189.7	0.00	0.00	0.00
2,700.0	19.83	80.51	2,584.9	2,511.08	118.0	705.8	199.1	0.00	0.00	0.00
2,800.0	19.83	80.51	2,679.0	2,417.01	123.5	739.3	208.6	0.00	0.00	0.00
2,900.0	19.83	80.51	2,773.1	2,322.94	129.1	772.7	218.0	0.00	0.00	0.00
3,000.0	19.83	80.51	2,867.1	2,228.87	134.7	806.2	227.4	0.00	0.00	0.00
3,100.0	19.83	80.51	2,961.2	2,134.81	140.3	839.7	236.9	0.00	0.00	0.00
3,200.0	19.83	80.51	3,055.3	2,040.74	145.9	873.1	246.3	0.00	0.00	0.00
3,300.0	19.83	80.51	3,149.3	1,946.67	151.5	906.6	255.8	0.00	0.00	0.00
3,400.0	19.83	80.51	3,243.4	1,852.60	157.1	940.1	265.2	0.00	0.00	0.00
3,500.0	19.83	80.51	3,337.5	1,758.53	162.7	973.5	274.6	0.00	0.00	0.00
3,600.0	19.83	80.51	3,431.5	1,664.46	168.3	1,007.0	284.1	0.00	0.00	0.00
3,700.0	19.83	80.51	3,525.6	1,570.39	173.9	1,040.4	293.5	0.00	0.00	0.00
3,800.0	19.83	80.51	3,619.7	1,476.32	179.5	1,073.9	303.0	0.00	0.00	0.00
3,900.0	19.83	80.51	3,713.7	1,382.26	185.1	1,107.4	312.4	0.00	0.00	0.00
4,000.0	19.83	80.51	3,807.8	1,288.19	190.7	1,140.8	321.8	0.00	0.00	0.00
4,100.0	19.83	80.51	3,901.9	1,194.12	196.3	1,174.3	331.3	0.00	0.00	0.00
4,200.0	19.83	80.51	3,996.0	1,100.05	201.8	1,207.8	340.7	0.00	0.00	0.00
4,300.0	19.83	80.51	4,090.0	1,005.98	207.4	1,241.2	350.2	0.00	0.00	0.00
PARKMAN										
4,342.5	19.83	80.51	4,130.0	966.00	209.8	1,255.4	354.2	0.00	0.00	0.00
4,400.0	19.83	80.51	4,184.1	911.91	213.0	1,274.7	359.6	0.00	0.00	0.00
4,500.0	19.83	80.51	4,278.2	817.84	218.6	1,308.1	369.1	0.00	0.00	0.00
4,600.0	19.83	80.51	4,372.2	723.78	224.2	1,341.6	378.5	0.00	0.00	0.00

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Well:	SELTZER 12	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)
4,700.0	19.83	80.51	4,466.3	629.71	229.8	1,375.1	387.9	0.00	0.00	0.00
4,800.0	19.83	80.51	4,560.4	535.64	235.4	1,408.5	397.4	0.00	0.00	0.00
4,900.0	19.83	80.51	4,654.4	441.57	241.0	1,442.0	406.8	0.00	0.00	0.00
5,000.0	19.83	80.51	4,748.5	347.50	246.6	1,475.5	416.3	0.00	0.00	0.00
5,100.0	19.83	80.51	4,842.6	253.43	252.2	1,508.9	425.7	0.00	0.00	0.00
5,200.0	19.83	80.51	4,936.6	159.36	257.8	1,542.4	435.1	0.00	0.00	0.00
SUSSEX										
5,235.5	19.83	80.51	4,970.0	126.00	259.8	1,554.3	438.5	0.00	0.00	0.00
5,300.0	19.83	80.51	5,030.7	65.29	263.4	1,575.9	444.6	0.00	0.00	0.00
5,400.0	19.83	80.51	5,124.8	-28.77	269.0	1,609.3	454.0	0.00	0.00	0.00
5,500.0	19.83	80.51	5,218.8	-122.84	274.5	1,642.8	463.5	0.00	0.00	0.00
5,600.0	19.83	80.51	5,312.9	-216.91	280.1	1,676.2	472.9	0.00	0.00	0.00
5,700.0	19.83	80.51	5,407.0	-310.98	285.7	1,709.7	482.3	0.00	0.00	0.00
5,800.0	19.83	80.51	5,501.0	-405.05	291.3	1,743.2	491.8	0.00	0.00	0.00
5,900.0	19.83	80.51	5,595.1	-499.12	296.9	1,776.6	501.2	0.00	0.00	0.00
6,000.0	19.83	80.51	5,689.2	-593.19	302.5	1,810.1	510.7	0.00	0.00	0.00
6,100.0	19.83	80.51	5,783.3	-687.26	308.1	1,843.6	520.1	0.00	0.00	0.00
6,200.0	19.83	80.51	5,877.3	-781.32	313.7	1,877.0	529.5	0.00	0.00	0.00
6,300.0	19.83	80.51	5,971.4	-875.39	319.3	1,910.5	539.0	0.00	0.00	0.00
END OF TANGENT										
6,325.1	19.83	80.51	5,995.0	-899.05	320.7	1,918.9	541.4	0.00	0.00	0.00
6,400.0	18.34	80.51	6,065.8	-969.79	324.7	1,943.0	548.2	2.00	-2.00	0.00
6,500.0	16.34	80.51	6,161.2	-1,065.24	329.6	1,972.4	556.5	2.00	-2.00	0.00
6,600.0	14.34	80.51	6,257.7	-1,161.67	334.0	1,998.5	563.8	2.00	-2.00	0.00
SHANNON										
6,623.0	13.88	80.51	6,280.0	-1,184.00	334.9	2,004.0	565.4	2.00	-2.00	0.00
6,700.0	12.34	80.51	6,355.0	-1,258.97	337.8	2,021.3	570.2	2.00	-2.00	0.00
6,800.0	10.34	80.51	6,453.0	-1,357.02	341.0	2,040.7	575.7	2.00	-2.00	0.00
6,900.0	8.34	80.51	6,551.7	-1,455.69	343.7	2,056.6	580.2	2.00	-2.00	0.00
7,000.0	6.34	80.51	6,650.9	-1,554.86	345.8	2,069.2	583.8	2.00	-2.00	0.00
7,100.0	4.34	80.51	6,750.4	-1,654.42	347.3	2,078.4	586.4	2.00	-2.00	0.00
7,200.0	2.34	80.51	6,850.2	-1,754.25	348.3	2,084.2	588.0	2.00	-2.00	0.00
7,300.0	0.34	80.51	6,950.2	-1,854.22	348.7	2,086.5	588.6	2.00	-2.00	0.00
EOD TO VERTICAL										
7,316.8	0.00	0.00	6,967.0	-1,871.00	348.7	2,086.5	588.6	2.00	-2.00	0.00
KOP (10°/100ft BUR)										
7,346.8	0.00	0.00	6,997.0	-1,901.00	348.7	2,086.5	588.6	0.00	0.00	0.00
7,400.0	5.32	180.07	7,050.1	-1,954.14	346.2	2,086.5	590.9	10.00	10.00	0.00
7,500.0	15.32	180.07	7,148.4	-2,052.40	328.3	2,086.5	607.0	10.00	10.00	0.00
7,600.0	25.32	180.07	7,242.1	-2,146.06	293.7	2,086.4	638.2	10.00	10.00	0.00
7,700.0	35.32	180.07	7,328.3	-2,232.27	243.2	2,086.4	683.7	10.00	10.00	0.00
7,800.0	45.32	180.07	7,404.4	-2,308.42	178.6	2,086.3	741.9	10.00	10.00	0.00
SHARON SPRINGS										
7,822.6	47.58	180.07	7,420.0	-2,324.00	162.2	2,086.3	756.7	10.00	10.00	0.00
NIOBRARA										
7,853.2	50.64	180.07	7,440.0	-2,344.00	139.1	2,086.3	777.5	10.00	10.00	0.00
7,900.0	55.32	180.07	7,468.2	-2,372.19	101.8	2,086.2	811.1	10.00	10.00	0.00
8,000.0	65.32	180.07	7,517.6	-2,421.65	15.0	2,086.1	889.3	10.00	10.00	0.00
8,100.0	75.32	180.07	7,551.3	-2,455.29	-79.1	2,086.0	974.0	10.00	10.00	0.00
8,200.0	85.32	180.07	7,568.1	-2,472.09	-177.5	2,085.9	1,062.7	10.00	10.00	0.00
LANDING POINT - SELTZER 12 - NIO B										
8,246.9	90.00	180.07	7,570.0	-2,474.00	-224.3	2,085.8	1,104.9	10.00	10.00	0.00
8,300.0	90.00	180.07	7,570.0	-2,474.00	-277.5	2,085.8	1,152.8	0.00	0.00	0.00

Planning Report



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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5096.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5096.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 12	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)
8,400.0	90.00	180.07	7,570.0	-2,474.00	-377.5	2,085.7	1,242.9	0.00	0.00	0.00
8,500.0	90.00	180.07	7,570.0	-2,473.99	-477.5	2,085.5	1,333.0	0.00	0.00	0.00
8,600.0	90.00	180.07	7,570.0	-2,473.99	-577.5	2,085.4	1,423.1	0.00	0.00	0.00
8,700.0	90.00	180.07	7,570.0	-2,473.99	-677.5	2,085.3	1,513.2	0.00	0.00	0.00
8,800.0	90.00	180.07	7,570.0	-2,473.99	-777.5	2,085.2	1,603.3	0.00	0.00	0.00
8,900.0	90.00	180.07	7,570.0	-2,473.99	-877.5	2,085.1	1,693.4	0.00	0.00	0.00
9,000.0	90.00	180.07	7,570.0	-2,473.99	-977.5	2,085.0	1,783.5	0.00	0.00	0.00
9,100.0	90.00	180.07	7,570.0	-2,473.98	-1,077.5	2,084.8	1,873.6	0.00	0.00	0.00
9,200.0	90.00	180.07	7,570.0	-2,473.98	-1,177.5	2,084.7	1,963.7	0.00	0.00	0.00
9,300.0	90.00	180.07	7,570.0	-2,473.98	-1,277.5	2,084.6	2,053.8	0.00	0.00	0.00
9,400.0	90.00	180.07	7,570.0	-2,473.98	-1,377.5	2,084.5	2,143.9	0.00	0.00	0.00
9,500.0	90.00	180.07	7,570.0	-2,473.98	-1,477.4	2,084.4	2,234.0	0.00	0.00	0.00
9,600.0	90.00	180.07	7,570.0	-2,473.98	-1,577.4	2,084.3	2,324.1	0.00	0.00	0.00
9,700.0	90.00	180.07	7,570.0	-2,473.98	-1,677.4	2,084.1	2,414.2	0.00	0.00	0.00
9,800.0	90.00	180.07	7,570.0	-2,473.98	-1,777.4	2,084.0	2,504.3	0.00	0.00	0.00
9,900.0	90.00	180.07	7,570.0	-2,473.98	-1,877.4	2,083.9	2,594.4	0.00	0.00	0.00
10,000.0	90.00	180.07	7,570.0	-2,473.98	-1,977.4	2,083.8	2,684.5	0.00	0.00	0.00
10,100.0	90.00	180.07	7,570.0	-2,473.98	-2,077.4	2,083.7	2,774.6	0.00	0.00	0.00
10,200.0	90.00	180.07	7,570.0	-2,473.98	-2,177.4	2,083.5	2,864.7	0.00	0.00	0.00
10,300.0	90.00	180.07	7,570.0	-2,473.98	-2,277.4	2,083.4	2,954.8	0.00	0.00	0.00
10,400.0	90.00	180.07	7,570.0	-2,473.98	-2,377.4	2,083.3	3,044.9	0.00	0.00	0.00
10,500.0	90.00	180.07	7,570.0	-2,473.98	-2,477.4	2,083.2	3,135.0	0.00	0.00	0.00
10,600.0	90.00	180.07	7,570.0	-2,473.98	-2,577.4	2,083.1	3,225.1	0.00	0.00	0.00
10,700.0	90.00	180.07	7,570.0	-2,473.98	-2,677.4	2,082.9	3,315.2	0.00	0.00	0.00
10,800.0	90.00	180.07	7,570.0	-2,473.98	-2,777.4	2,082.8	3,405.3	0.00	0.00	0.00
10,900.0	90.00	180.07	7,570.0	-2,473.98	-2,877.4	2,082.7	3,495.4	0.00	0.00	0.00
11,000.0	90.00	180.07	7,570.0	-2,473.98	-2,977.4	2,082.6	3,585.5	0.00	0.00	0.00
11,100.0	90.00	180.07	7,570.0	-2,473.98	-3,077.4	2,082.4	3,675.6	0.00	0.00	0.00
11,200.0	90.00	180.07	7,570.0	-2,473.98	-3,177.4	2,082.3	3,765.7	0.00	0.00	0.00
11,300.0	90.00	180.07	7,570.0	-2,473.98	-3,277.4	2,082.2	3,855.7	0.00	0.00	0.00
11,400.0	90.00	180.07	7,570.0	-2,473.98	-3,377.4	2,082.1	3,945.8	0.00	0.00	0.00
11,500.0	90.00	180.07	7,570.0	-2,473.98	-3,477.4	2,081.9	4,035.9	0.00	0.00	0.00
11,600.0	90.00	180.07	7,570.0	-2,473.99	-3,577.4	2,081.8	4,126.0	0.00	0.00	0.00
11,700.0	90.00	180.07	7,570.0	-2,473.99	-3,677.4	2,081.7	4,216.1	0.00	0.00	0.00
11,800.0	90.00	180.07	7,570.0	-2,473.99	-3,777.4	2,081.6	4,306.2	0.00	0.00	0.00
11,900.0	90.00	180.07	7,570.0	-2,473.99	-3,877.4	2,081.4	4,396.3	0.00	0.00	0.00
12,000.0	90.00	180.07	7,570.0	-2,473.99	-3,977.4	2,081.3	4,486.4	0.00	0.00	0.00
12,100.0	90.00	180.07	7,570.0	-2,473.99	-4,077.4	2,081.2	4,576.5	0.00	0.00	0.00
12,200.0	90.00	180.07	7,570.0	-2,474.00	-4,177.4	2,081.1	4,666.6	0.00	0.00	0.00
12,300.0	90.00	180.07	7,570.0	-2,474.00	-4,277.4	2,080.9	4,756.7	0.00	0.00	0.00
BHL - SELTZER 12										
12,357.1	90.00	180.07	7,570.0	-2,474.00	-4,334.6	2,080.9	4,808.2	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 12
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5096.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5096.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 12	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,342.5	4,130.0	PARKMAN			
5,235.5	4,970.0	SUSSEX			
6,623.0	6,280.0	SHANNON			
7,822.6	7,420.0	SHARON SPRINGS			
7,853.2	7,440.0	NIOBRARA			
8,246.9	7,570.0	NIO B			

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.0	100.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,091.6	1,072.0	28.0	167.6	EOB TO 19.83° INC
1,653.0	1,600.0	59.4	355.4	9 5/8" SURFACE CASING
6,325.1	5,995.0	320.7	1,918.9	END OF TANGENT
7,316.8	6,967.0	348.7	2,086.5	EOD TO VERTICAL
7,346.8	6,997.0	348.7	2,086.5	KOP (10°/100ft BUR)
8,246.9	7,570.0	-224.3	2,085.8	LANDING POINT - SELTZER 12
12,357.1	7,570.0	-4,334.6	2,080.9	BHL - SELTZER 12