

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

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

SELTZER 9

ORIGINAL WELLBORE

11 February, 2016

Plan: PROPOSAL #2





Project: WELD COUNTY, COLORADO (NAD 83)
Site: NW NE SEC. 4 T1S R67W 6th P.M.
Well: SELTZER 9
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

ANNOTATIONS

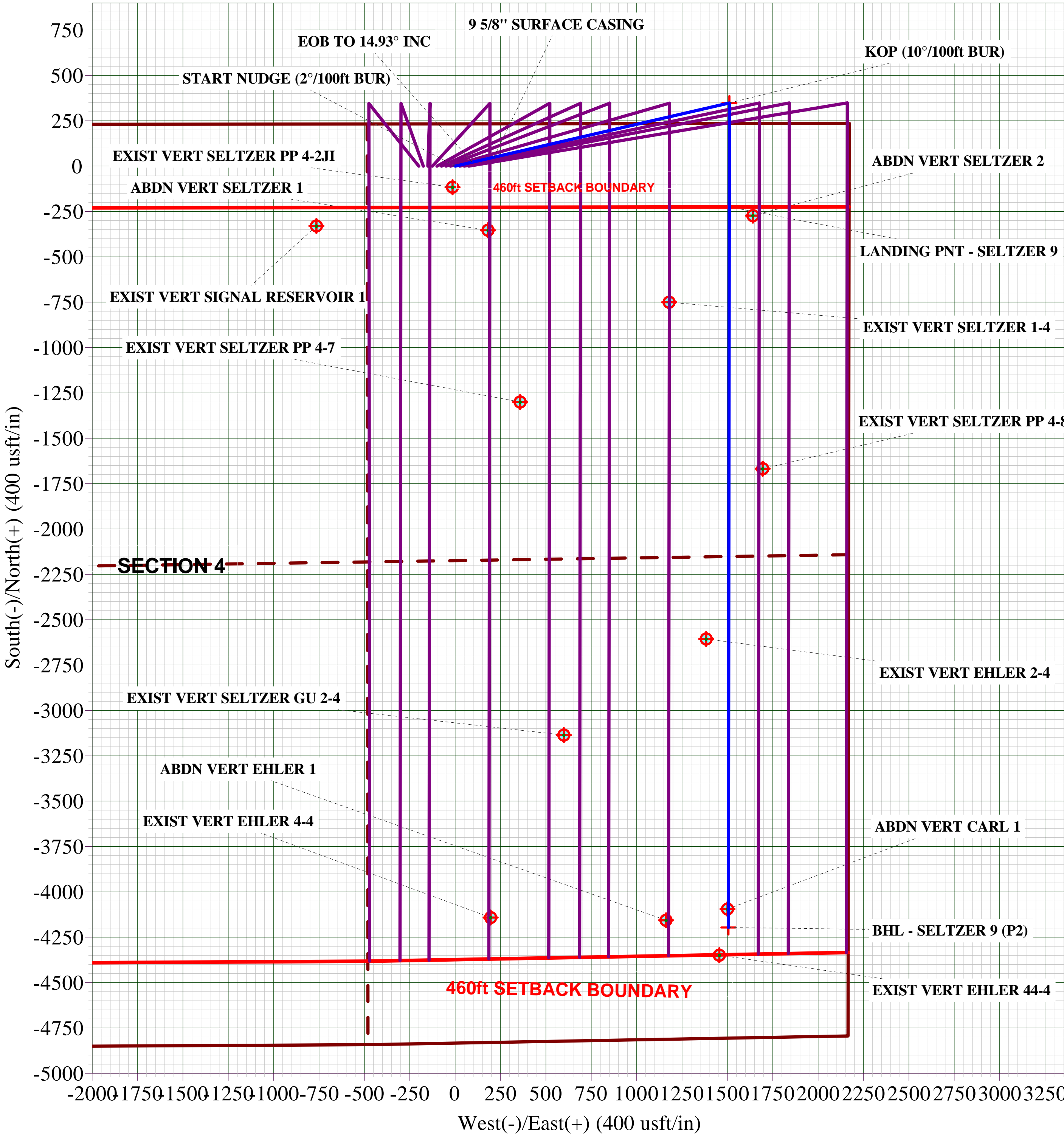
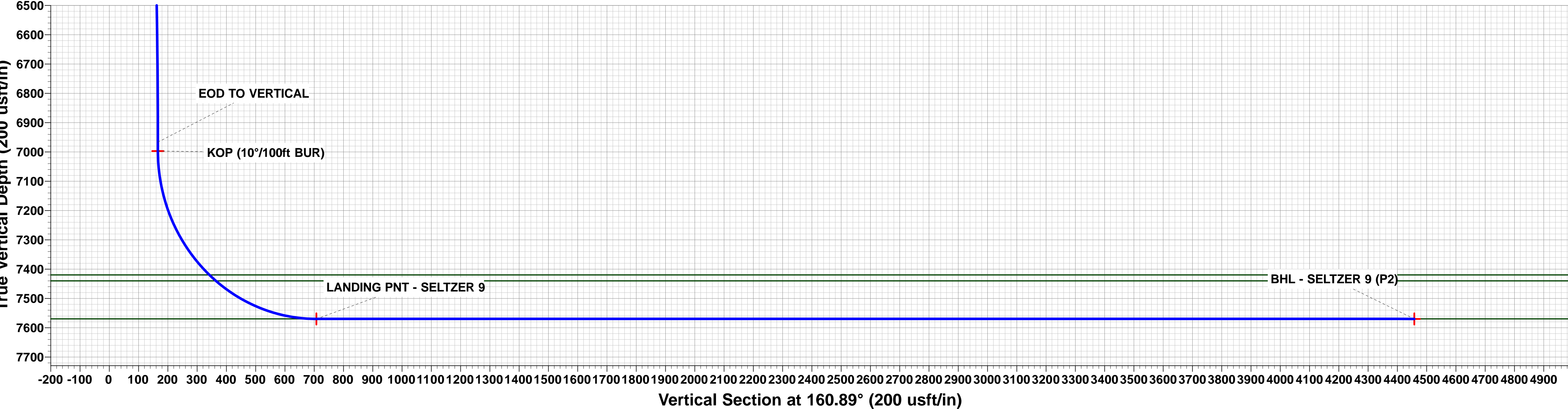
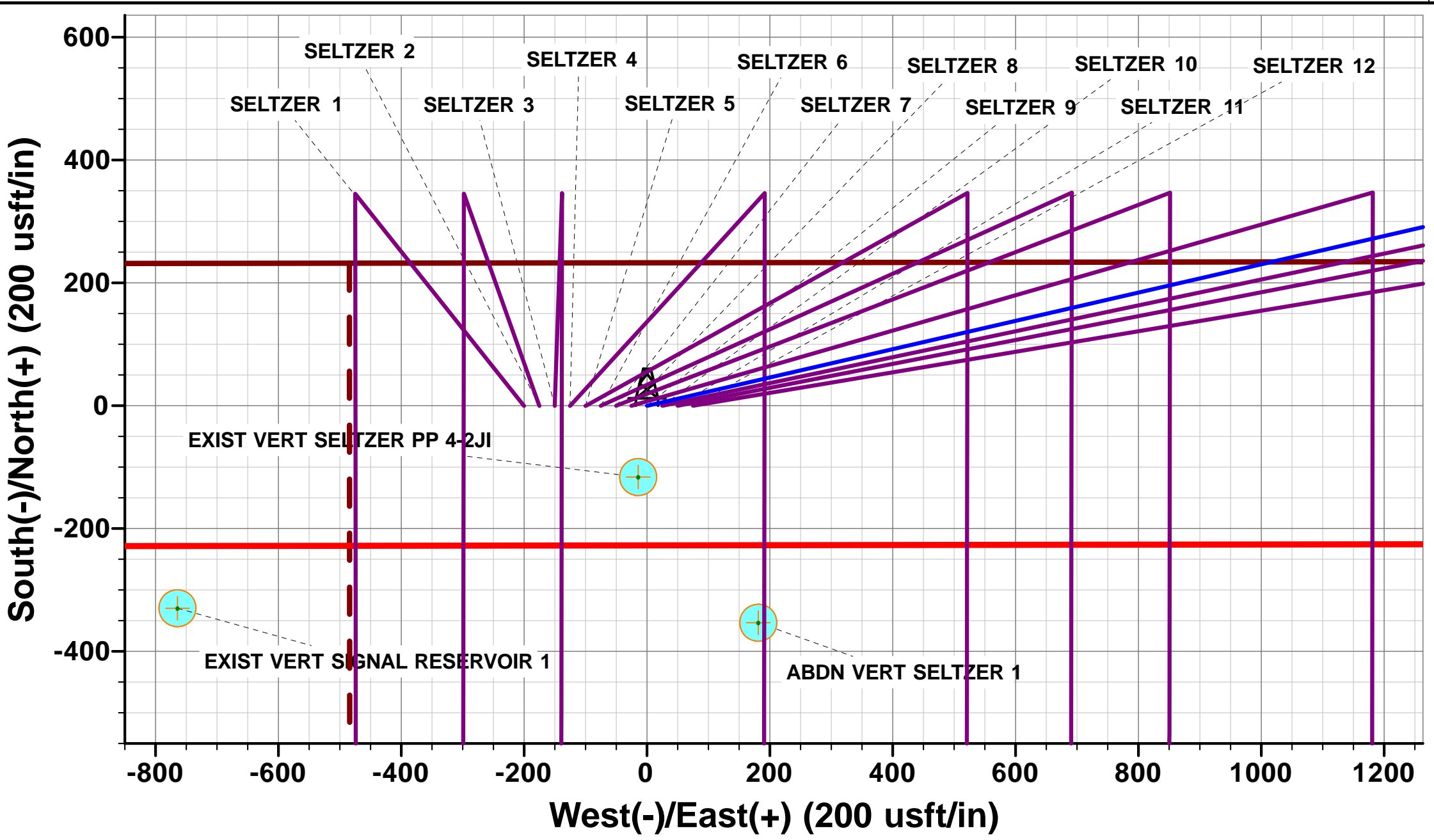
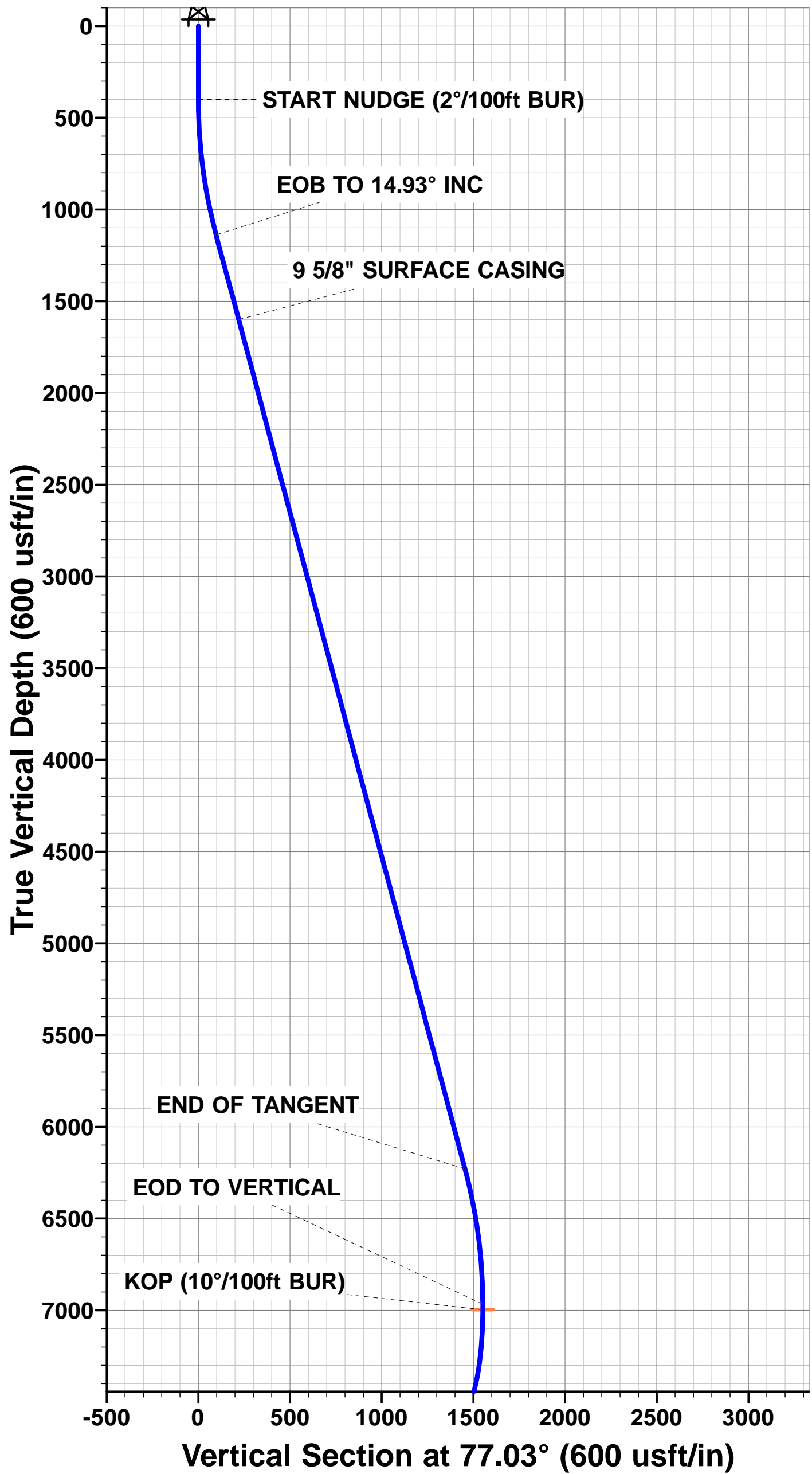
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
400.0	400.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1138.1	1146.6	14.93	77.03	21.7	94.3	10.4	96.7	EOB TO 14.93° INC
1600.0	1624.6	14.93	77.03	49.3	214.3	23.5	219.9	9 5/8" SURFACE CASING
6228.9	6415.2	14.93	77.03	326.3	1417.1	155.6	1454.2	END OF TANGENT
6967.0	7161.7	0.00	0.00	348.0	1511.4	166.0	1550.9	EOD TO VERTICAL
6997.0	7191.7	0.00	0.00	348.0	1511.4	166.0	1550.9	KOP (10°/100ft BUR)
7570.0	8091.8	90.00	180.07	-225.0	1510.7	707.2	2124.0	LANDING PNT - SELTZER 9
7570.0	12062.9	90.00	180.06	-4196.1	1505.9	4457.9	6095.1	BHL - SELTZER 9 (P2)

PROPOSED LOCAL COORDINATES:

SHL: 233ft FNL & 2172ft FEL Sec 4
LANDING PNT: 460ft FNL & 660ft FEL Sec 4
BHL: 610ft FSL & 660ft FEL Sec 4

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - SELTZER 9	6997.0	348.0	1511.4	40.000674	-104.886744
LANDING PNT - SELTZER 9	7570.0	-225.0	1510.7	39.999101	-104.886747
BHL - SELTZER 9 (P2)	7570.0	-4196.1	1505.9	39.988200	-104.886765



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 9
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 9	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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 9		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	-74.8 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	39.999719
		Longitude:	-104.892139
		Ground Level:	5,081.0 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 #2			
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	160.89

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	-5,097.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	-4,697.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,146.6	14.93	77.03	1,138.1	-3,958.9	21.7	94.3	2.00	2.00	0.00	77.03	
6,415.2	14.93	77.03	6,228.9	1,131.9	326.3	1,417.1	0.00	0.00	0.00	0.00	
7,161.7	0.00	0.00	6,967.0	1,870.0	348.0	1,511.4	2.00	-2.00	0.00	180.00	
7,191.7	0.00	0.00	6,997.0	1,900.0	348.0	1,511.4	0.00	0.00	0.00	0.00	KOP - SELTZER 9
8,091.8	90.00	180.07	7,570.0	2,473.0	-225.0	1,510.7	10.00	10.00	-19.99	180.07	LANDING PNT - SE
12,062.9	90.00	180.06	7,570.0	2,473.0	-4,196.1	1,505.9	0.00	0.00	0.00	-133.29	BHL - SELTZER 9 (

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 9	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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	5,097.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,997.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,897.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,797.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
400.0	0.00	0.00	400.0	4,697.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.00	77.03	500.0	4,597.02	0.4	1.7	0.2	2.00	2.00	0.00
600.0	4.00	77.03	599.8	4,497.16	1.6	6.8	0.7	2.00	2.00	0.00
700.0	6.00	77.03	699.5	4,397.55	3.5	15.3	1.7	2.00	2.00	0.00
800.0	8.00	77.03	798.7	4,298.30	6.3	27.2	3.0	2.00	2.00	0.00
900.0	10.00	77.03	897.5	4,199.53	9.8	42.4	4.7	2.00	2.00	0.00
1,000.0	12.00	77.03	995.6	4,101.38	14.0	61.0	6.7	2.00	2.00	0.00
1,100.0	14.00	77.03	1,093.1	4,003.94	19.1	82.9	9.1	2.00	2.00	0.00
EOB TO 14.93° INC										
1,146.6	14.93	77.03	1,138.1	3,958.87	21.7	94.3	10.4	2.00	2.00	0.00
1,200.0	14.93	77.03	1,189.8	3,907.23	24.8	107.7	11.8	0.00	0.00	0.00
1,300.0	14.93	77.03	1,286.4	3,810.60	30.6	132.8	14.6	0.00	0.00	0.00
1,400.0	14.93	77.03	1,383.0	3,713.98	36.4	157.9	17.3	0.00	0.00	0.00
1,500.0	14.93	77.03	1,479.6	3,617.35	42.1	183.0	20.1	0.00	0.00	0.00
1,600.0	14.93	77.03	1,576.3	3,520.73	47.9	208.1	22.9	0.00	0.00	0.00
9 5/8" SURFACE CASING										
1,624.6	14.93	77.03	1,600.0	3,497.00	49.3	214.3	23.5	0.00	0.00	0.00
1,700.0	14.93	77.03	1,672.9	3,424.11	53.7	233.2	25.6	0.00	0.00	0.00
1,800.0	14.93	77.03	1,769.5	3,327.48	59.5	258.3	28.4	0.00	0.00	0.00
1,900.0	14.93	77.03	1,866.1	3,230.86	65.3	283.4	31.1	0.00	0.00	0.00
2,000.0	14.93	77.03	1,962.8	3,134.24	71.0	308.5	33.9	0.00	0.00	0.00
2,100.0	14.93	77.03	2,059.4	3,037.61	76.8	333.7	36.6	0.00	0.00	0.00
2,200.0	14.93	77.03	2,156.0	2,940.99	82.6	358.8	39.4	0.00	0.00	0.00
2,300.0	14.93	77.03	2,252.6	2,844.37	88.4	383.9	42.2	0.00	0.00	0.00
2,400.0	14.93	77.03	2,349.3	2,747.74	94.2	409.0	44.9	0.00	0.00	0.00
2,500.0	14.93	77.03	2,445.9	2,651.12	99.9	434.1	47.7	0.00	0.00	0.00
2,600.0	14.93	77.03	2,542.5	2,554.49	105.7	459.2	50.4	0.00	0.00	0.00
2,700.0	14.93	77.03	2,639.1	2,457.87	111.5	484.3	53.2	0.00	0.00	0.00
2,800.0	14.93	77.03	2,735.8	2,361.25	117.3	509.4	55.9	0.00	0.00	0.00
2,900.0	14.93	77.03	2,832.4	2,264.62	123.1	534.5	58.7	0.00	0.00	0.00
3,000.0	14.93	77.03	2,929.0	2,168.00	128.9	559.6	61.5	0.00	0.00	0.00
3,100.0	14.93	77.03	3,025.6	2,071.38	134.6	584.7	64.2	0.00	0.00	0.00
3,200.0	14.93	77.03	3,122.2	1,974.75	140.4	609.9	67.0	0.00	0.00	0.00
3,300.0	14.93	77.03	3,218.9	1,878.13	146.2	635.0	69.7	0.00	0.00	0.00
3,400.0	14.93	77.03	3,315.5	1,781.51	152.0	660.1	72.5	0.00	0.00	0.00
3,500.0	14.93	77.03	3,412.1	1,684.88	157.8	685.2	75.2	0.00	0.00	0.00
3,600.0	14.93	77.03	3,508.7	1,588.26	163.5	710.3	78.0	0.00	0.00	0.00
3,700.0	14.93	77.03	3,605.4	1,491.63	169.3	735.4	80.8	0.00	0.00	0.00
3,800.0	14.93	77.03	3,702.0	1,395.01	175.1	760.5	83.5	0.00	0.00	0.00
3,900.0	14.93	77.03	3,798.6	1,298.39	180.9	785.6	86.3	0.00	0.00	0.00
4,000.0	14.93	77.03	3,895.2	1,201.76	186.7	810.7	89.0	0.00	0.00	0.00
4,100.0	14.93	77.03	3,991.9	1,105.14	192.5	835.8	91.8	0.00	0.00	0.00
4,200.0	14.93	77.03	4,088.5	1,008.52	198.2	860.9	94.6	0.00	0.00	0.00
PARKMAN										
4,243.0	14.93	77.03	4,130.0	967.00	200.7	871.7	95.7	0.00	0.00	0.00
4,300.0	14.93	77.03	4,185.1	911.89	204.0	886.0	97.3	0.00	0.00	0.00
4,400.0	14.93	77.03	4,281.7	815.27	209.8	911.2	100.1	0.00	0.00	0.00
4,500.0	14.93	77.03	4,378.4	718.65	215.6	936.3	102.8	0.00	0.00	0.00
4,600.0	14.93	77.03	4,475.0	622.02	221.4	961.4	105.6	0.00	0.00	0.00

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 9	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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	14.93	77.03	4,571.6	525.40	227.1	986.5	108.3	0.00	0.00	0.00
4,800.0	14.93	77.03	4,668.2	428.77	232.9	1,011.6	111.1	0.00	0.00	0.00
4,900.0	14.93	77.03	4,764.8	332.15	238.7	1,036.7	113.9	0.00	0.00	0.00
5,000.0	14.93	77.03	4,861.5	235.53	244.5	1,061.8	116.6	0.00	0.00	0.00
5,100.0	14.93	77.03	4,958.1	138.90	250.3	1,086.9	119.4	0.00	0.00	0.00
SUSSEX										
5,112.3	14.93	77.03	4,970.0	127.00	251.0	1,090.0	119.7	0.00	0.00	0.00
5,200.0	14.93	77.03	5,054.7	42.28	256.0	1,112.0	122.1	0.00	0.00	0.00
5,300.0	14.93	77.03	5,151.3	-54.34	261.8	1,137.1	124.9	0.00	0.00	0.00
5,400.0	14.93	77.03	5,248.0	-150.97	267.6	1,162.2	127.6	0.00	0.00	0.00
5,500.0	14.93	77.03	5,344.6	-247.59	273.4	1,187.4	130.4	0.00	0.00	0.00
5,600.0	14.93	77.03	5,441.2	-344.22	279.2	1,212.5	133.2	0.00	0.00	0.00
5,700.0	14.93	77.03	5,537.8	-440.84	285.0	1,237.6	135.9	0.00	0.00	0.00
5,800.0	14.93	77.03	5,634.5	-537.46	290.7	1,262.7	138.7	0.00	0.00	0.00
5,900.0	14.93	77.03	5,731.1	-634.09	296.5	1,287.8	141.4	0.00	0.00	0.00
6,000.0	14.93	77.03	5,827.7	-730.71	302.3	1,312.9	144.2	0.00	0.00	0.00
6,100.0	14.93	77.03	5,924.3	-827.33	308.1	1,338.0	146.9	0.00	0.00	0.00
6,200.0	14.93	77.03	6,021.0	-923.96	313.9	1,363.1	149.7	0.00	0.00	0.00
6,300.0	14.93	77.03	6,117.6	-1,020.58	319.6	1,388.2	152.5	0.00	0.00	0.00
6,400.0	14.93	77.03	6,214.2	-1,117.20	325.4	1,413.3	155.2	0.00	0.00	0.00
END OF TANGENT										
6,415.2	14.93	77.03	6,228.9	-1,131.87	326.3	1,417.1	155.6	0.00	0.00	0.00
SHANNON										
6,468.0	13.88	77.03	6,280.0	-1,183.00	329.2	1,429.9	157.0	2.00	-2.00	0.00
6,500.0	13.23	77.03	6,311.1	-1,214.14	330.9	1,437.3	157.8	2.00	-2.00	0.00
6,600.0	11.23	77.03	6,408.9	-1,311.86	335.7	1,457.9	160.1	2.00	-2.00	0.00
6,700.0	9.23	77.03	6,507.3	-1,410.27	339.7	1,475.2	162.0	2.00	-2.00	0.00
6,800.0	7.23	77.03	6,606.2	-1,509.23	342.9	1,489.2	163.5	2.00	-2.00	0.00
6,900.0	5.23	77.03	6,705.6	-1,608.63	345.3	1,499.8	164.7	2.00	-2.00	0.00
7,000.0	3.23	77.03	6,805.4	-1,708.36	347.0	1,507.0	165.5	2.00	-2.00	0.00
7,100.0	1.23	77.03	6,905.3	-1,808.28	347.9	1,510.8	165.9	2.00	-2.00	0.00
EOD TO VERTICAL										
7,161.7	0.00	0.00	6,967.0	-1,870.00	348.0	1,511.4	166.0	2.00	-2.00	-124.79
KOP (10°/100ft BUR)										
7,191.7	0.00	0.00	6,997.0	-1,900.00	348.0	1,511.4	166.0	0.00	0.00	0.00
7,200.0	0.83	180.07	7,005.3	-1,908.27	347.9	1,511.4	166.0	10.00	10.00	0.00
7,300.0	10.83	180.07	7,104.6	-2,007.63	337.8	1,511.4	175.6	10.00	10.00	0.00
7,400.0	20.83	180.07	7,200.7	-2,103.72	310.6	1,511.4	201.3	10.00	10.00	0.00
7,500.0	30.82	180.07	7,290.6	-2,193.61	267.1	1,511.3	242.4	10.00	10.00	0.00
7,600.0	40.82	180.07	7,371.6	-2,274.59	208.6	1,511.2	297.6	10.00	10.00	0.00
SHARON SPRINGS										
7,667.6	47.58	180.07	7,420.0	-2,323.00	161.5	1,511.2	342.1	10.00	10.00	0.00
NIORARA										
7,698.1	50.64	180.07	7,440.0	-2,343.00	138.4	1,511.1	363.9	10.00	10.00	0.00
7,700.0	50.82	180.07	7,441.2	-2,344.19	137.0	1,511.1	365.3	10.00	10.00	0.00
7,800.0	60.82	180.07	7,497.3	-2,400.29	54.3	1,511.0	443.3	10.00	10.00	0.00
7,900.0	70.82	180.07	7,538.2	-2,441.20	-36.8	1,510.9	529.4	10.00	10.00	0.00
8,000.0	80.82	180.07	7,562.7	-2,465.66	-133.6	1,510.8	620.8	10.00	10.00	0.00
NIO B										
8,091.8	90.00	180.07	7,570.0	-2,473.00	-225.0	1,510.7	707.1	10.00	10.00	0.00
LANDING PNT - SELTZER 9										
8,091.8	90.00	180.07	7,570.0	-2,473.00	-225.0	1,510.7	707.2	10.00	10.00	0.00
8,100.0	90.00	180.07	7,570.0	-2,473.00	-233.2	1,510.6	714.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 9
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 9	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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)
8,200.0	90.00	180.07	7,570.0	-2,472.99	-333.2	1,510.5	809.4	0.00	0.00	0.00
8,300.0	90.00	180.07	7,570.0	-2,472.98	-433.2	1,510.4	903.8	0.00	0.00	0.00
8,400.0	90.00	180.07	7,570.0	-2,472.98	-533.2	1,510.3	998.3	0.00	0.00	0.00
8,500.0	90.00	180.07	7,570.0	-2,472.97	-633.2	1,510.1	1,092.7	0.00	0.00	0.00
8,600.0	90.00	180.07	7,570.0	-2,472.96	-733.2	1,510.0	1,187.1	0.00	0.00	0.00
8,700.0	90.00	180.07	7,570.0	-2,472.96	-833.2	1,509.9	1,281.6	0.00	0.00	0.00
8,800.0	90.00	180.07	7,570.0	-2,472.95	-933.2	1,509.8	1,376.0	0.00	0.00	0.00
8,900.0	90.00	180.07	7,569.9	-2,472.95	-1,033.2	1,509.6	1,470.5	0.00	0.00	0.00
9,000.0	90.00	180.07	7,569.9	-2,472.94	-1,133.2	1,509.5	1,564.9	0.00	0.00	0.00
9,100.0	90.00	180.07	7,569.9	-2,472.94	-1,233.2	1,509.4	1,659.4	0.00	0.00	0.00
9,200.0	90.00	180.07	7,569.9	-2,472.94	-1,333.2	1,509.3	1,753.8	0.00	0.00	0.00
9,300.0	90.00	180.07	7,569.9	-2,472.93	-1,433.2	1,509.1	1,848.3	0.00	0.00	0.00
9,400.0	90.00	180.07	7,569.9	-2,472.93	-1,533.2	1,509.0	1,942.7	0.00	0.00	0.00
9,500.0	90.00	180.07	7,569.9	-2,472.93	-1,633.2	1,508.9	2,037.2	0.00	0.00	0.00
9,600.0	90.00	180.07	7,569.9	-2,472.93	-1,733.2	1,508.8	2,131.6	0.00	0.00	0.00
9,700.0	90.00	180.07	7,569.9	-2,472.92	-1,833.2	1,508.6	2,226.1	0.00	0.00	0.00
9,800.0	90.00	180.07	7,569.9	-2,472.92	-1,933.2	1,508.5	2,320.5	0.00	0.00	0.00
9,900.0	90.00	180.07	7,569.9	-2,472.92	-2,033.2	1,508.4	2,415.0	0.00	0.00	0.00
10,000.0	90.00	180.07	7,569.9	-2,472.92	-2,133.2	1,508.3	2,509.4	0.00	0.00	0.00
10,100.0	90.00	180.07	7,569.9	-2,472.92	-2,233.2	1,508.1	2,603.9	0.00	0.00	0.00
10,200.0	90.00	180.07	7,569.9	-2,472.92	-2,333.2	1,508.0	2,698.3	0.00	0.00	0.00
10,300.0	90.00	180.07	7,569.9	-2,472.92	-2,433.2	1,507.9	2,792.8	0.00	0.00	0.00
10,400.0	90.00	180.07	7,569.9	-2,472.92	-2,533.2	1,507.8	2,887.2	0.00	0.00	0.00
10,500.0	90.00	180.07	7,569.9	-2,472.92	-2,633.2	1,507.7	2,981.7	0.00	0.00	0.00
10,600.0	90.00	180.07	7,569.9	-2,472.93	-2,733.2	1,507.5	3,076.1	0.00	0.00	0.00
10,700.0	90.00	180.07	7,569.9	-2,472.93	-2,833.2	1,507.4	3,170.6	0.00	0.00	0.00
10,800.0	90.00	180.07	7,569.9	-2,472.93	-2,933.2	1,507.3	3,265.0	0.00	0.00	0.00
10,900.0	90.00	180.07	7,569.9	-2,472.93	-3,033.2	1,507.2	3,359.5	0.00	0.00	0.00
11,000.0	90.00	180.07	7,569.9	-2,472.94	-3,133.2	1,507.1	3,453.9	0.00	0.00	0.00
11,100.0	90.00	180.07	7,569.9	-2,472.94	-3,233.2	1,507.0	3,548.4	0.00	0.00	0.00
11,200.0	90.00	180.07	7,569.9	-2,472.95	-3,333.2	1,506.8	3,642.8	0.00	0.00	0.00
11,300.0	90.00	180.07	7,570.0	-2,472.95	-3,433.2	1,506.7	3,737.3	0.00	0.00	0.00
11,400.0	90.00	180.07	7,570.0	-2,472.96	-3,533.2	1,506.6	3,831.7	0.00	0.00	0.00
11,500.0	90.00	180.07	7,570.0	-2,472.96	-3,633.2	1,506.5	3,926.2	0.00	0.00	0.00
11,600.0	90.00	180.07	7,570.0	-2,472.97	-3,733.2	1,506.4	4,020.6	0.00	0.00	0.00
11,700.0	90.00	180.07	7,570.0	-2,472.97	-3,833.2	1,506.3	4,115.1	0.00	0.00	0.00
11,800.0	90.00	180.07	7,570.0	-2,472.98	-3,933.2	1,506.2	4,209.5	0.00	0.00	0.00
11,900.0	90.00	180.06	7,570.0	-2,472.99	-4,033.2	1,506.0	4,304.0	0.00	0.00	0.00
12,000.0	90.00	180.06	7,570.0	-2,473.00	-4,133.2	1,505.9	4,398.4	0.00	0.00	0.00
BHL - SELTZER 9 (P2)										
12,062.9	90.00	180.06	7,570.0	-2,473.00	-4,196.1	1,505.9	4,457.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 9
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5097.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 9	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,243.0	4,130.0	PARKMAN			
5,112.3	4,970.0	SUSSEX			
6,468.0	6,280.0	SHANNON			
7,667.6	7,420.0	SHARON SPRINGS			
7,698.1	7,440.0	NIOBRARA			
8,091.8	7,570.0	NIO B			

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
400.0	400.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,146.6	1,138.1	21.7	94.3	EOB TO 14.93° INC
1,624.6	1,600.0	49.3	214.3	9 5/8" SURFACE CASING
6,415.2	6,228.9	326.3	1,417.1	END OF TANGENT
7,161.7	6,967.0	348.0	1,511.4	EOD TO VERTICAL
7,191.7	6,997.0	348.0	1,511.4	KOP (10°/100ft BUR)
8,091.8	7,570.0	-225.0	1,510.7	LANDING PNT - SELTZER 9
12,062.9	7,570.0	-4,196.1	1,505.9	BHL - SELTZER 9 (P2)