

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

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

SELTZER 1

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 1
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation	
1600.0	1600.0	0.00	0.00	0.0	0.0	0.0	0.0	9 5/8" SURFACE CASING	
1700.0	1700.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)	
2295.5	2299.9	12.00	321.49	49.0	-39.0	-46.5	62.6	EOB TO 12° INC	
3783.5	3821.1	12.00	321.49	296.4	-235.8	-281.3	378.8	END OF TANGENT	
4379.0	4421.0	0.00	0.00	345.4	-274.8	-327.8	441.4	EOD TO VERTICAL	
6997.0	7039.0	0.00	0.00	345.4	-274.8	-327.8	441.4	KOP (10°/100ft BUR)	
7570.0	7939.1	90.00	179.95	-227.6	-274.3	244.1	1014.4	LANDING PNT - SELTZER 1	
7570.0	12093.0	90.00	179.95	-4381.6	-270.7	4389.9	5168.4	BHL - SELTZER 1	

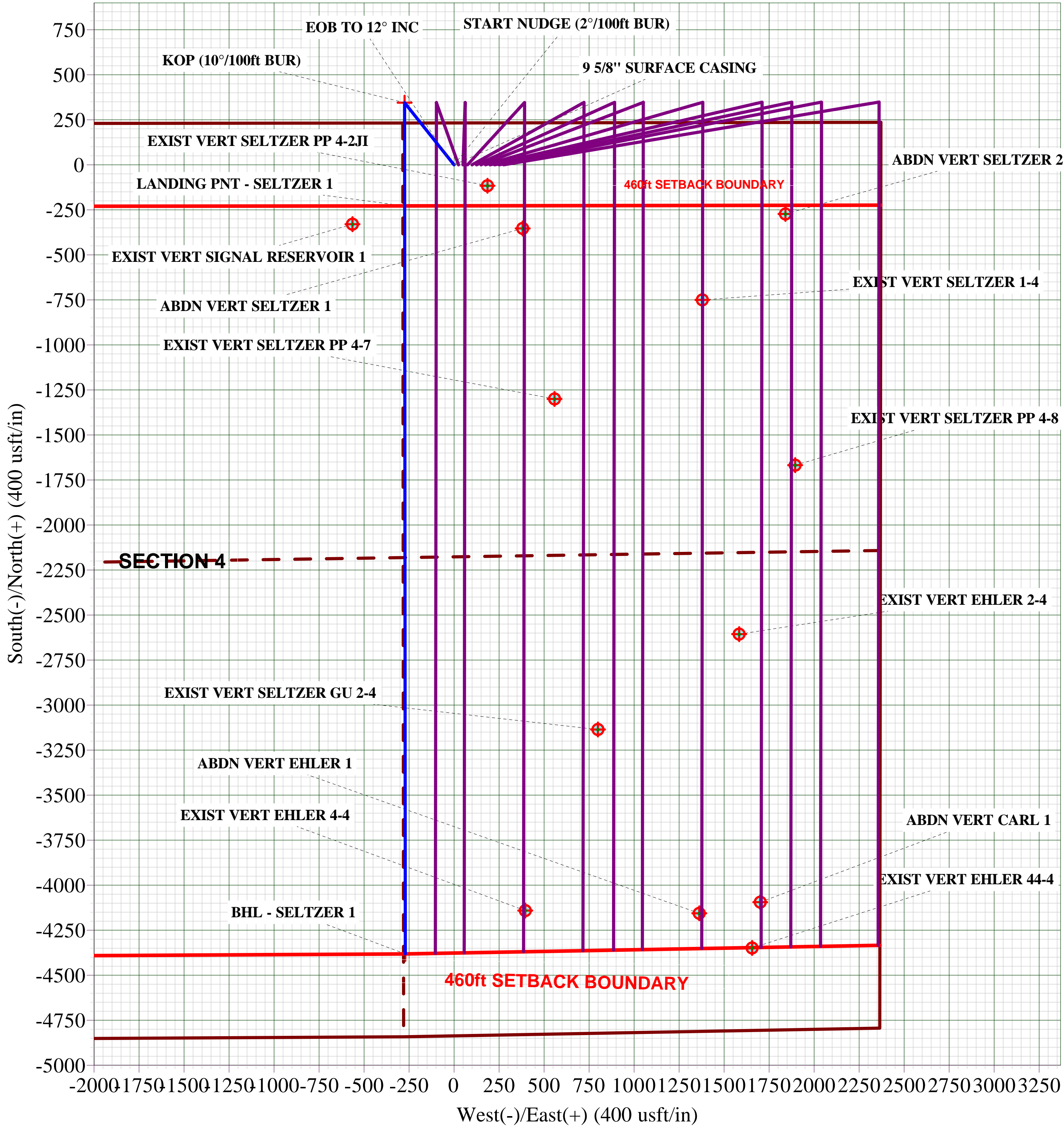
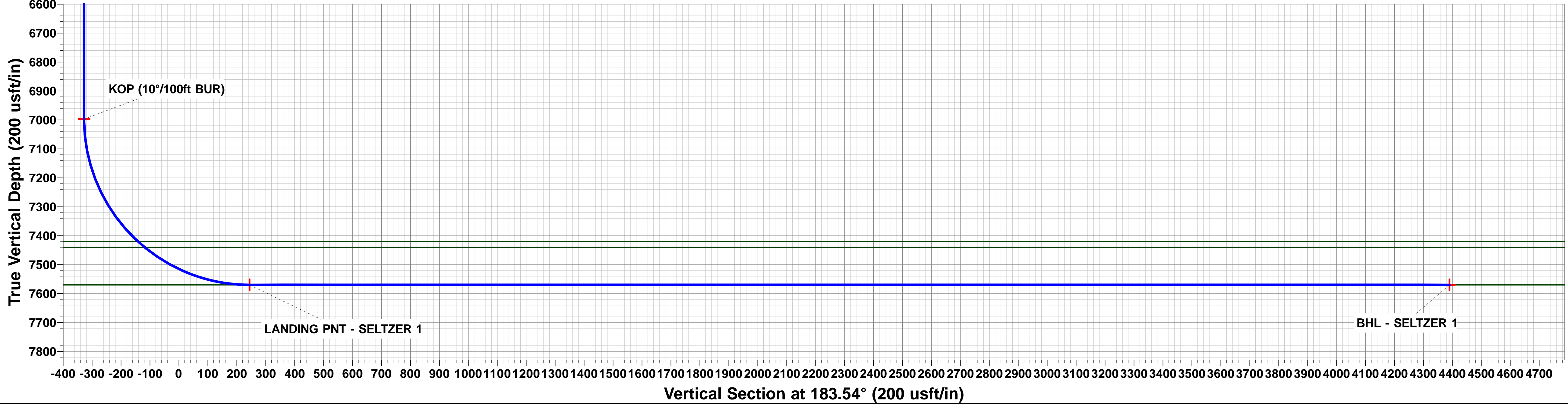
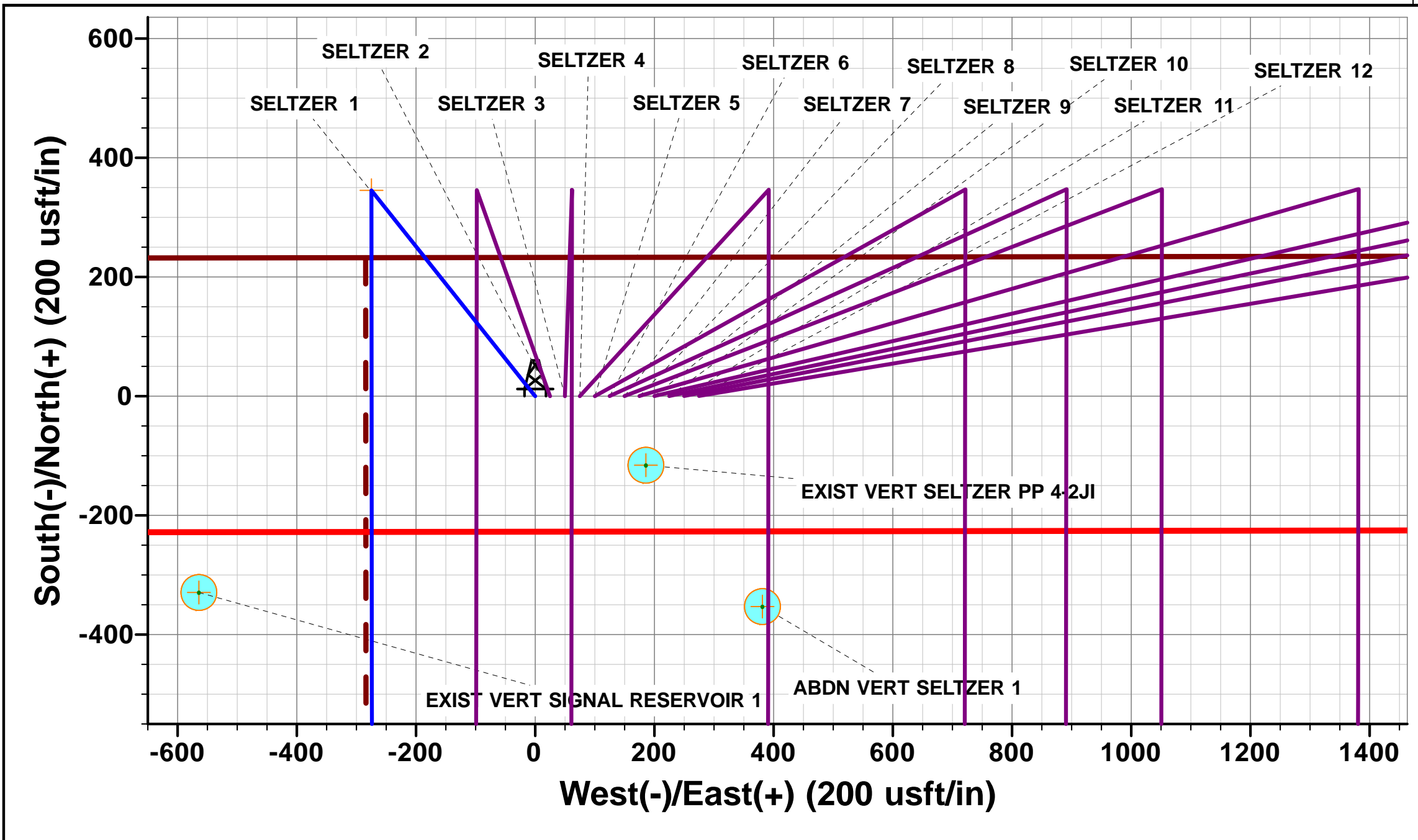
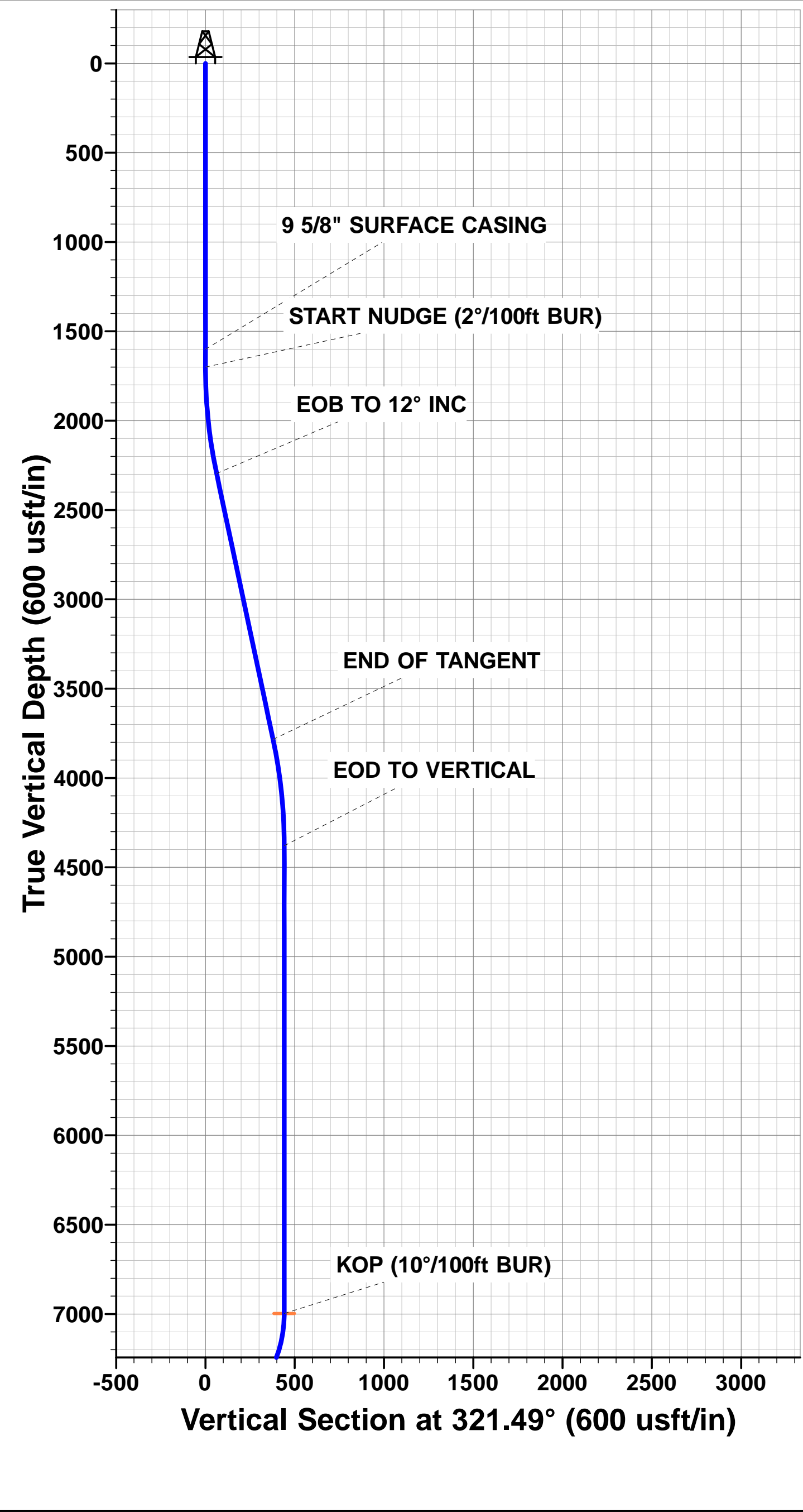
PROPOSED LOCAL COORDINATES:

SHL: 233ft FNL & 2372ft FEL Sec 4

LANDING PNT: 460ft FNL & 2645ft FEL Sec 4

BHL: 460ft FSL & 2637ft FEL Sec 4

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - SELTZER 1	6997.0	345.4	-274.8	40.000666	-104.893834
LANDING PNT - SELTZER 1	7570.0	-227.6	-274.3	39.999093	-104.893832
BHL - SELTZER 1	7570.0	-4381.6	-270.7	39.987690	-104.893819



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 1
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5099.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5099.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 1	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 1		
Well Position	+N/-S	-0.4 usft	Northing:
	+E/-W	-274.8 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)
	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	183.54

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	-5,099.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	-3,399.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,299.9	12.00	321.49	2,295.5	-2,803.5	49.0	-39.0	2.00	2.00	0.00	321.49	
3,821.1	12.00	321.49	3,783.5	-1,315.5	296.4	-235.8	0.00	0.00	0.00	0.00	
4,421.0	0.00	0.00	4,379.0	-720.0	345.4	-274.8	2.00	-2.00	0.00	180.00	
7,039.0	0.00	0.00	6,997.0	1,898.0	345.4	-274.8	0.00	0.00	0.00	0.00	KOP - SELTZER 1
7,939.1	90.00	179.95	7,570.0	2,471.0	-227.6	-274.3	10.00	10.00	19.99	179.95	LANDING PNT - SE
12,093.0	90.00	179.95	7,570.0	2,471.0	-4,381.6	-270.7	0.00	0.00	0.00	131.82	BHL - SELTZER 1

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5099.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 1	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	5,099.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,999.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,899.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,799.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,699.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,599.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,499.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,399.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	4,299.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	4,199.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	4,099.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,999.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,899.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,799.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,699.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,599.00	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8" SURFACE CASING										
1,600.0	0.00	0.00	1,600.0	3,499.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
1,700.0	0.00	0.00	1,700.0	3,399.00	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	2.00	321.49	1,800.0	3,299.02	1.4	-1.1	-1.3	2.00	2.00	0.00
1,900.0	4.00	321.49	1,899.8	3,199.16	5.5	-4.3	-5.2	2.00	2.00	0.00
2,000.0	6.00	321.49	1,999.5	3,099.55	12.3	-9.8	-11.7	2.00	2.00	0.00
2,100.0	8.00	321.49	2,098.7	3,000.30	21.8	-17.4	-20.7	2.00	2.00	0.00
2,200.0	10.00	321.49	2,197.5	2,901.53	34.1	-27.1	-32.3	2.00	2.00	0.00
EOB TO 12° INC										
2,299.9	12.00	321.49	2,295.5	2,803.48	49.0	-39.0	-46.5	2.00	2.00	0.00
2,300.0	12.00	321.49	2,295.6	2,803.38	49.0	-39.0	-46.5	0.00	0.00	0.00
2,400.0	12.00	321.49	2,393.4	2,705.56	65.3	-51.9	-61.9	0.00	0.00	0.00
2,500.0	12.00	321.49	2,491.3	2,607.75	81.5	-64.9	-77.4	0.00	0.00	0.00
2,600.0	12.00	321.49	2,589.1	2,509.93	97.8	-77.8	-92.8	0.00	0.00	0.00
2,700.0	12.00	321.49	2,686.9	2,412.11	114.1	-90.7	-108.2	0.00	0.00	0.00
2,800.0	12.00	321.49	2,784.7	2,314.30	130.3	-103.7	-123.7	0.00	0.00	0.00
2,900.0	12.00	321.49	2,882.5	2,216.48	146.6	-116.6	-139.1	0.00	0.00	0.00
3,000.0	12.00	321.49	2,980.3	2,118.67	162.9	-129.6	-154.6	0.00	0.00	0.00
3,100.0	12.00	321.49	3,078.1	2,020.85	179.1	-142.5	-170.0	0.00	0.00	0.00
3,200.0	12.00	321.49	3,176.0	1,923.04	195.4	-155.5	-185.4	0.00	0.00	0.00
3,300.0	12.00	321.49	3,273.8	1,825.22	211.7	-168.4	-200.9	0.00	0.00	0.00
3,400.0	12.00	321.49	3,371.6	1,727.41	227.9	-181.3	-216.3	0.00	0.00	0.00
3,500.0	12.00	321.49	3,469.4	1,629.59	244.2	-194.3	-231.8	0.00	0.00	0.00
3,600.0	12.00	321.49	3,567.2	1,531.78	260.5	-207.2	-247.2	0.00	0.00	0.00
3,700.0	12.00	321.49	3,665.0	1,433.96	276.7	-220.2	-262.6	0.00	0.00	0.00
3,800.0	12.00	321.49	3,762.9	1,336.14	293.0	-233.1	-278.1	0.00	0.00	0.00
END OF TANGENT										
3,821.1	12.00	321.49	3,783.5	1,315.52	296.4	-235.8	-281.3	0.00	0.00	0.00
3,900.0	10.42	321.49	3,860.9	1,238.11	308.4	-245.4	-292.7	2.00	-2.00	0.00
4,000.0	8.42	321.49	3,959.5	1,139.47	321.2	-255.6	-304.9	2.00	-2.00	0.00
4,100.0	6.42	321.49	4,058.7	1,040.31	331.3	-263.6	-314.5	2.00	-2.00	0.00
PARKMAN										
4,171.7	4.99	321.49	4,130.0	969.00	336.9	-268.1	-319.7	2.00	-2.00	0.00
4,200.0	4.42	321.49	4,158.2	940.76	338.7	-269.5	-321.5	2.00	-2.00	0.00
4,300.0	2.42	321.49	4,258.1	840.94	343.4	-273.2	-325.9	2.00	-2.00	0.00
4,400.0	0.42	321.49	4,358.0	740.98	345.3	-274.8	-327.7	2.00	-2.00	0.00

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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)
EOD TO VERTICAL										
4,421.0	0.00	0.00	4,379.0	720.00	345.4	-274.8	-327.8	2.00	-2.00	0.00
4,500.0	0.00	0.00	4,458.0	640.98	345.4	-274.8	-327.8	0.00	0.00	0.00
4,600.0	0.00	0.00	4,558.0	540.98	345.4	-274.8	-327.8	0.00	0.00	0.00
4,700.0	0.00	0.00	4,658.0	440.98	345.4	-274.8	-327.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,758.0	340.98	345.4	-274.8	-327.8	0.00	0.00	0.00
4,900.0	0.00	0.00	4,858.0	240.98	345.4	-274.8	-327.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,958.0	140.98	345.4	-274.8	-327.8	0.00	0.00	0.00
SUSSEX										
5,012.0	0.00	0.00	4,970.0	129.00	345.4	-274.8	-327.8	0.00	0.00	0.00
5,100.0	0.00	0.00	5,058.0	40.98	345.4	-274.8	-327.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,158.0	-59.02	345.4	-274.8	-327.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,258.0	-159.02	345.4	-274.8	-327.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,358.0	-259.02	345.4	-274.8	-327.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,458.0	-359.02	345.4	-274.8	-327.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,558.0	-459.02	345.4	-274.8	-327.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,658.0	-559.02	345.4	-274.8	-327.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,758.0	-659.02	345.4	-274.8	-327.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,858.0	-759.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,958.0	-859.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,058.0	-959.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,158.0	-1,059.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,258.0	-1,159.02	345.4	-274.8	-327.8	0.00	0.00	0.00
SHANNON										
6,322.0	0.00	0.00	6,280.0	-1,181.00	345.4	-274.8	-327.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,358.0	-1,259.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,458.0	-1,359.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,558.0	-1,459.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,658.0	-1,559.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,758.0	-1,659.02	345.4	-274.8	-327.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,858.0	-1,759.02	345.4	-274.8	-327.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,958.0	-1,859.02	345.4	-274.8	-327.8	0.00	0.00	0.00
KOP (10°/100ft BUR)										
7,039.0	0.00	0.00	6,997.0	-1,898.00	345.4	-274.8	-327.8	0.00	0.00	0.00
7,100.0	6.10	179.95	7,057.9	-1,958.91	342.2	-274.8	-324.6	10.00	10.00	0.00
7,200.0	16.10	179.95	7,155.9	-2,056.91	322.9	-274.8	-305.4	10.00	10.00	0.00
7,300.0	26.10	179.95	7,249.1	-2,150.09	287.0	-274.7	-269.5	10.00	10.00	0.00
7,400.0	36.10	179.95	7,334.6	-2,235.60	235.4	-274.7	-218.0	10.00	10.00	0.00
7,500.0	46.10	179.95	7,409.9	-2,310.87	169.7	-274.6	-152.5	10.00	10.00	0.00
SHARON SPRINGS										
7,514.8	47.58	179.95	7,420.0	-2,321.00	158.9	-274.6	-141.7	10.00	10.00	0.00
NIOBRARA										
7,545.4	50.64	179.95	7,440.0	-2,341.00	135.8	-274.6	-118.6	10.00	10.00	0.00
7,600.0	56.10	179.95	7,472.6	-2,373.59	92.0	-274.6	-74.9	10.00	10.00	0.00
7,700.0	66.10	179.95	7,520.9	-2,421.86	4.6	-274.5	12.4	10.00	10.00	0.00
7,800.0	76.10	179.95	7,553.2	-2,454.21	-89.9	-274.4	106.7	10.00	10.00	0.00
7,900.0	86.10	179.95	7,568.7	-2,469.67	-188.6	-274.3	205.1	10.00	10.00	0.00
LANDING PNT - SELTZER 1 - NIO B										
7,939.1	90.00	179.95	7,570.0	-2,471.00	-227.6	-274.3	244.1	10.00	10.00	0.00
8,000.0	90.00	179.95	7,570.0	-2,471.00	-288.6	-274.2	304.9	0.00	0.00	0.00
8,100.0	90.00	179.95	7,570.0	-2,471.00	-388.6	-274.1	404.7	0.00	0.00	0.00
8,200.0	90.00	179.95	7,570.0	-2,470.99	-488.6	-274.0	504.5	0.00	0.00	0.00
8,300.0	90.00	179.95	7,570.0	-2,470.99	-588.6	-274.0	604.3	0.00	0.00	0.00

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5099.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 1	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	179.95	7,570.0	-2,470.99	-688.6	-273.9	704.1	0.00	0.00	0.00
8,500.0	90.00	179.95	7,570.0	-2,470.98	-788.6	-273.8	803.9	0.00	0.00	0.00
8,600.0	90.00	179.95	7,570.0	-2,470.98	-888.6	-273.7	903.7	0.00	0.00	0.00
8,700.0	90.00	179.95	7,570.0	-2,470.98	-988.6	-273.6	1,003.5	0.00	0.00	0.00
8,800.0	90.00	179.95	7,570.0	-2,470.98	-1,088.6	-273.5	1,103.3	0.00	0.00	0.00
8,900.0	90.00	179.95	7,570.0	-2,470.98	-1,188.6	-273.4	1,203.2	0.00	0.00	0.00
9,000.0	90.00	179.95	7,570.0	-2,470.97	-1,288.6	-273.3	1,303.0	0.00	0.00	0.00
9,100.0	90.00	179.95	7,570.0	-2,470.97	-1,388.6	-273.2	1,402.8	0.00	0.00	0.00
9,200.0	90.00	179.95	7,570.0	-2,470.97	-1,488.6	-273.1	1,502.6	0.00	0.00	0.00
9,300.0	90.00	179.95	7,570.0	-2,470.97	-1,588.6	-273.0	1,602.4	0.00	0.00	0.00
9,400.0	90.00	179.95	7,570.0	-2,470.97	-1,688.6	-272.9	1,702.2	0.00	0.00	0.00
9,500.0	90.00	179.95	7,570.0	-2,470.97	-1,788.6	-272.8	1,802.0	0.00	0.00	0.00
9,600.0	90.00	179.95	7,570.0	-2,470.97	-1,888.6	-272.7	1,901.8	0.00	0.00	0.00
9,700.0	90.00	179.95	7,570.0	-2,470.97	-1,988.6	-272.6	2,001.6	0.00	0.00	0.00
9,800.0	90.00	179.95	7,570.0	-2,470.97	-2,088.6	-272.5	2,101.4	0.00	0.00	0.00
9,900.0	90.00	179.95	7,570.0	-2,470.97	-2,188.6	-272.4	2,201.2	0.00	0.00	0.00
10,000.0	90.00	179.95	7,570.0	-2,470.97	-2,288.6	-272.3	2,301.0	0.00	0.00	0.00
10,100.0	90.00	179.95	7,570.0	-2,470.97	-2,388.6	-272.2	2,400.8	0.00	0.00	0.00
10,200.0	90.00	179.95	7,570.0	-2,470.97	-2,488.6	-272.1	2,500.6	0.00	0.00	0.00
10,300.0	90.00	179.95	7,570.0	-2,470.97	-2,588.6	-272.0	2,600.4	0.00	0.00	0.00
10,400.0	90.00	179.95	7,570.0	-2,470.97	-2,688.6	-271.9	2,700.2	0.00	0.00	0.00
10,500.0	90.00	179.95	7,570.0	-2,470.97	-2,788.6	-271.8	2,800.0	0.00	0.00	0.00
10,600.0	90.00	179.95	7,570.0	-2,470.97	-2,888.6	-271.7	2,899.8	0.00	0.00	0.00
10,700.0	90.00	179.95	7,570.0	-2,470.97	-2,988.6	-271.6	2,999.6	0.00	0.00	0.00
10,800.0	90.00	179.95	7,570.0	-2,470.97	-3,088.6	-271.5	3,099.4	0.00	0.00	0.00
10,900.0	90.00	179.95	7,570.0	-2,470.97	-3,188.6	-271.4	3,199.2	0.00	0.00	0.00
11,000.0	90.00	179.95	7,570.0	-2,470.97	-3,288.6	-271.3	3,299.0	0.00	0.00	0.00
11,100.0	90.00	179.95	7,570.0	-2,470.98	-3,388.6	-271.2	3,398.8	0.00	0.00	0.00
11,200.0	90.00	179.95	7,570.0	-2,470.98	-3,488.6	-271.1	3,498.7	0.00	0.00	0.00
11,300.0	90.00	179.95	7,570.0	-2,470.98	-3,588.6	-271.0	3,598.5	0.00	0.00	0.00
11,400.0	90.00	179.95	7,570.0	-2,470.98	-3,688.6	-270.9	3,698.3	0.00	0.00	0.00
11,500.0	90.00	179.95	7,570.0	-2,470.98	-3,788.6	-270.8	3,798.1	0.00	0.00	0.00
11,600.0	90.00	179.95	7,570.0	-2,470.99	-3,888.6	-270.7	3,897.9	0.00	0.00	0.00
11,700.0	90.00	179.95	7,570.0	-2,470.99	-3,988.6	-270.6	3,997.7	0.00	0.00	0.00
11,800.0	90.00	179.95	7,570.0	-2,470.99	-4,088.6	-270.5	4,097.5	0.00	0.00	0.00
11,900.0	90.00	179.95	7,570.0	-2,470.99	-4,188.6	-270.4	4,197.3	0.00	0.00	0.00
12,000.0	90.00	179.95	7,570.0	-2,471.00	-4,288.6	-270.3	4,297.1	0.00	0.00	0.00
BHL - SELTZER 1										
12,093.0	90.00	179.95	7,570.0	-2,471.00	-4,381.6	-270.7	4,389.9	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,171.7	4,130.0	PARKMAN			
5,012.0	4,970.0	SUSSEX			
6,322.0	6,280.0	SHANNON			
7,514.8	7,420.0	SHARON SPRINGS			
7,545.4	7,440.0	NIOBRARA			
7,939.1	7,570.0	NIO B			

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SELTZER 1
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 5099.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 5099.0usft (Original Well Elev)
Site:	NW NE SEC. 4 T1S R67W 6th P.M.	North Reference:	True
Well:	SELTZER 1	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.0	1,600.0	0.0	0.0	9 5/8" SURFACE CASING
1,700.0	1,700.0	0.0	0.0	START NUDGE (2°/100ft BUR)
2,299.9	2,295.5	49.0	-39.0	EOB TO 12° INC
3,821.1	3,783.5	296.4	-235.8	END OF TANGENT
4,421.0	4,379.0	345.4	-274.8	EOD TO VERTICAL
7,039.0	6,997.0	345.4	-274.8	KOP (10°/100ft BUR)
7,939.1	7,570.0	-227.6	-274.3	LANDING PNT - SELTZER 1
12,093.0	7,570.0	-4,381.6	-270.7	BHL - SELTZER 1