

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

SE NW SEC. 8 T6N R65W 6th P.M.

JANSSEN 8

ORIGINAL WELLBORE

05 December, 2014

Plan: PROPOSAL #1

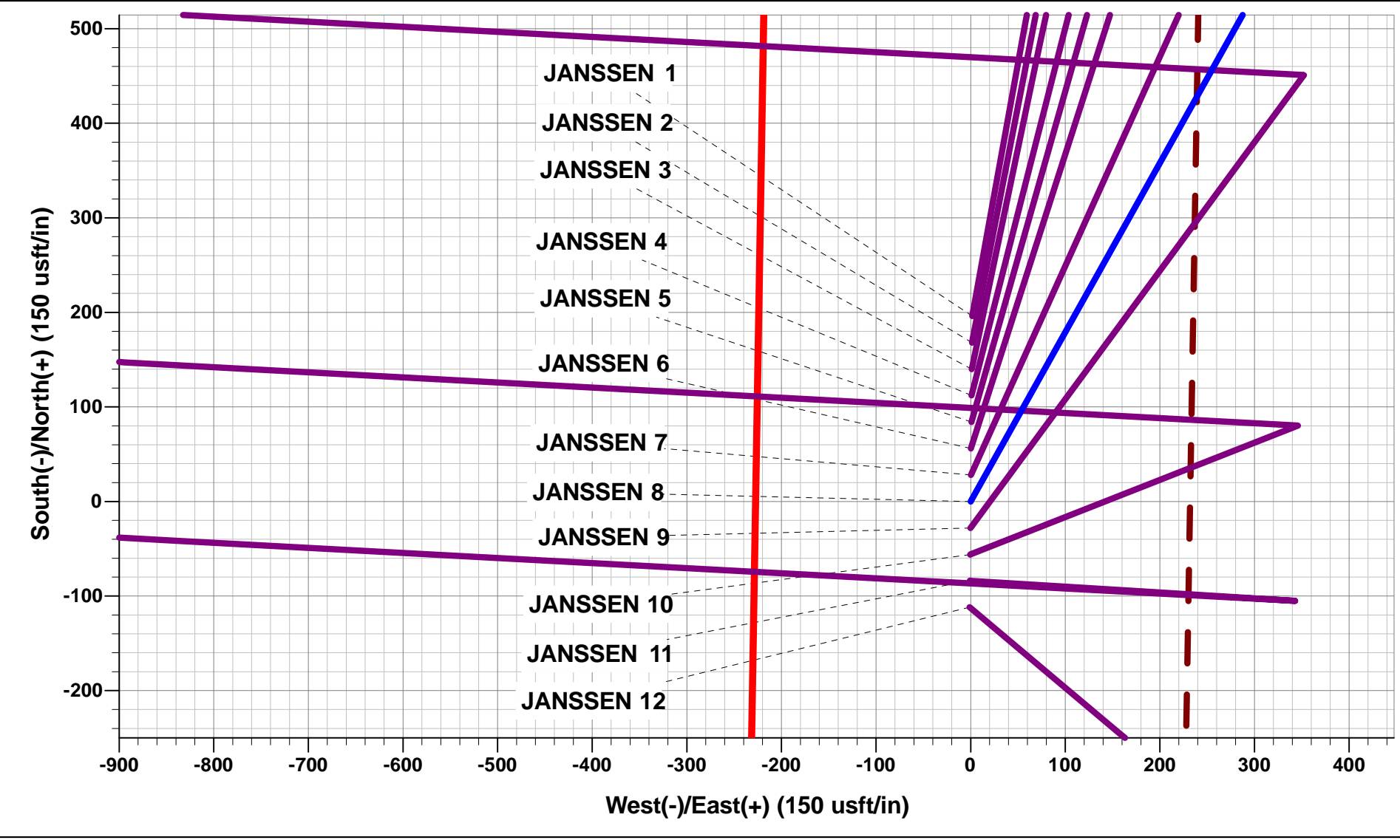




Project: WELD COUNTY, COLORADO (NAD 83)
Site: SE NW SEC. 8 T6N R65W 6th P.M.
Well: JANSSEN 8
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS										
TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sct	Dep	Annotation		
1650.0	1650.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)		
2114.5	2116.6	9.33	29.19	33.1	18.5	-11.8	37.9	EOB TO 9.33° INC		
6086.5	6141.8	9.33	29.19	602.9	336.8	-214.1	690.6	END OF TANGENT		
6551.0	6608.4	0.00	0.00	636.0	355.3	-225.9	728.5	EOD TO VERTICAL		
6581.0	6638.4	0.00	0.00	636.0	355.3	-225.9	728.5	KOP (10°/100ft BUR)		
7154.0	7538.5	90.00	273.07	666.7	-216.9	341.5	1301.5	7" ICP - JANSSEN 8		
7154.0	11905.7	90.00	273.06	900.3	-4577.9	4665.6	5668.8	BHL - JANSSEN 8		

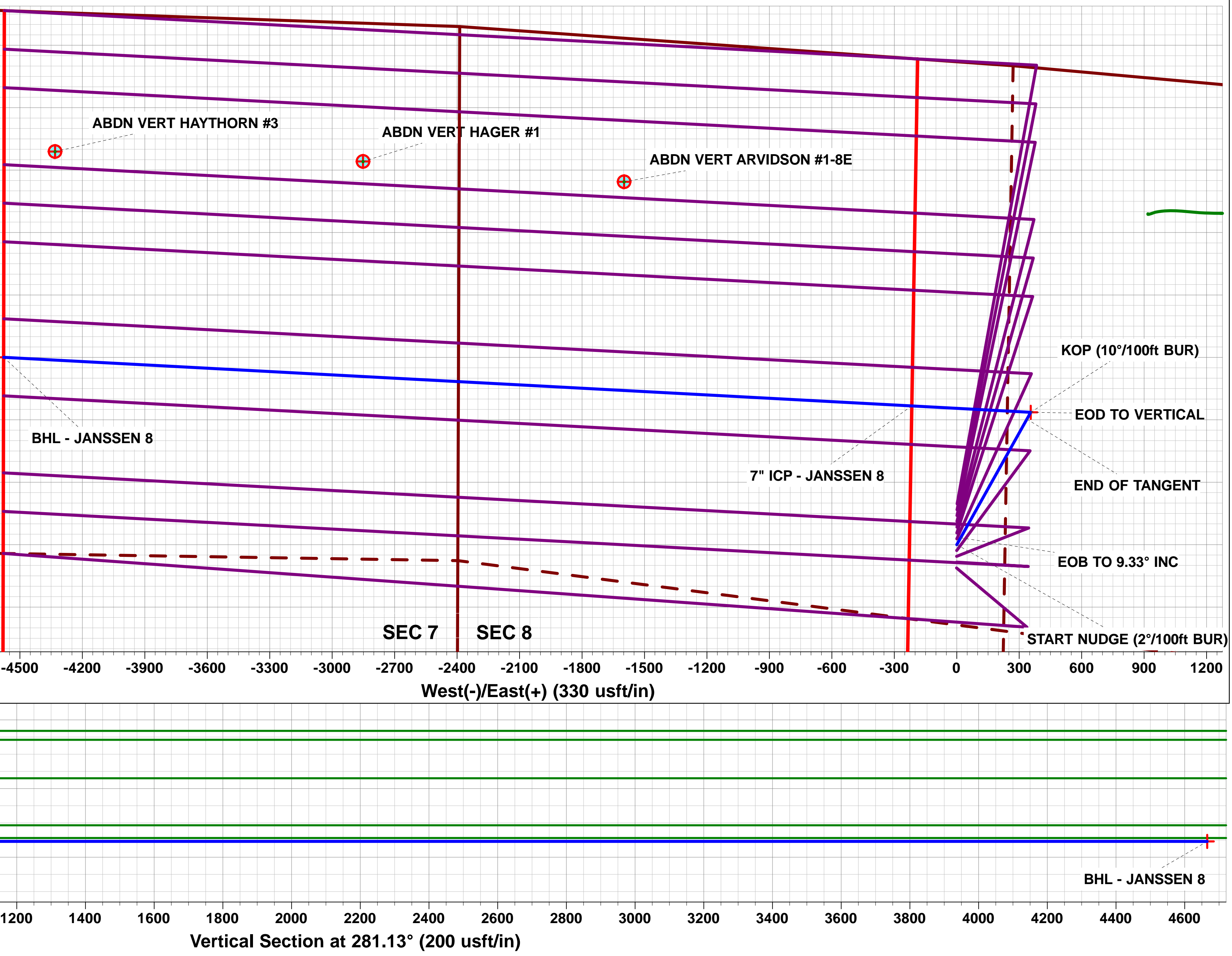
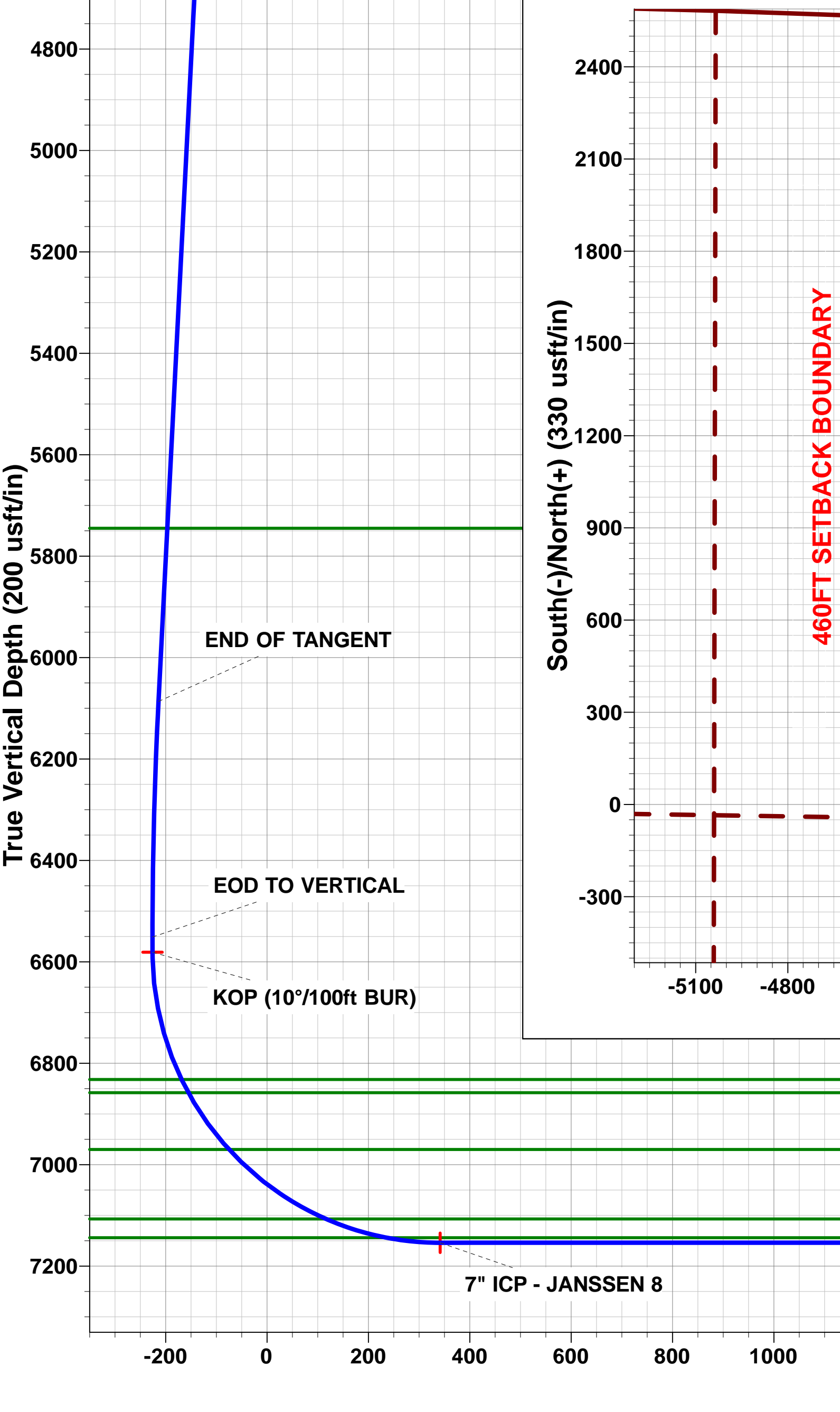
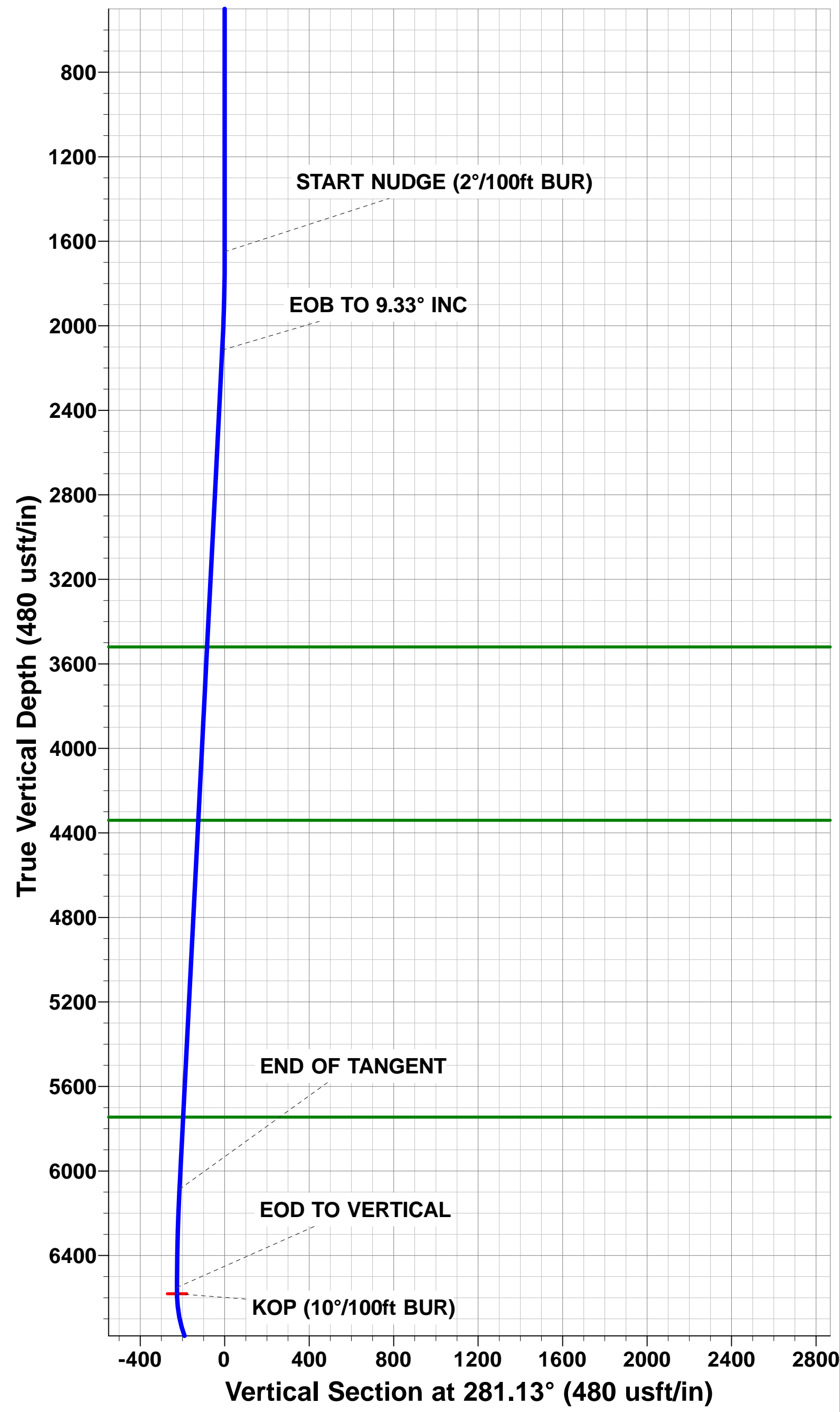
WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
KOP - JANSSEN 8	6581.0	636.0	355.3	40.504604	-104.686996	
7" ICP - JANSSEN 8	7154.0	666.7	-216.9	40.504688	-104.689054	
BHL - JANSSEN 8	7154.0	900.3	-4577.9	40.505328	-104.704736	



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3520.0	3540.9	PARKMAN
4340.0	4371.9	SUSSEX
5745.0	5795.7	SHANNON
6832.0	6898.2	SHARON SPRINGS
6858.0	6927.5	NIOBRARA
6970.0	7066.0	NIO B
7107.0	7304.8	FORT HAYS
7144.0	7431.2	CODELL

Azimuths to True North
Magnetic North: 8.36°

Magnetic Field
Strength: 52827.2snT
Dip Angle: 67.02°
Date: 05/12/2014
Model: IGRF2010



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well JANSSEN 8
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4800.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4800.0usft (Original Well Elev)
Site:	SE NW SEC. 8 T6N R65W 6th P.M.	North Reference:	True
Well:	JANSSEN 8	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	SE NW SEC. 8 T6N R65W 6th P.M.		
Site Position:		Northing:	1,427,260.85 usft
From:	Lat/Long	Easting:	3,225,727.81 usft
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft
		Latitude:	40.503396
		Longitude:	-104.688268
		Grid Convergence:	0.52 °

Well	JANSSEN 8		
Well Position	+N/-S	-196.0 usft	Northing:
	+E/-W	-1.7 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	05/12/2014	8.36	67.02	52,827

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 (°)
	7,154.0	0.0	0.0	281.13

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	-4,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,650.0	0.00	0.00	1,650.0	-3,150.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,116.6	9.33	29.19	2,114.5	-2,685.5	33.1	18.5	2.00	2.00	0.00	29.19	
6,141.8	9.33	29.19	6,086.5	1,286.5	602.9	336.8	0.00	0.00	0.00	0.00	
6,608.4	0.00	0.00	6,551.0	1,751.0	636.0	355.3	2.00	-2.00	0.00	180.00	
6,638.4	0.00	0.00	6,581.0	1,781.0	636.0	355.3	0.00	0.00	0.00	0.00	KOP - JANSSEN 8
7,538.5	90.00	273.07	7,154.0	2,354.0	666.7	-216.9	10.00	10.00	-9.66	273.07	7" ICP - JANSSEN
11,905.7	90.00	273.06	7,154.0	2,354.0	900.3	-4,577.9	0.00	0.00	0.00	-118.58	BHL - JANSSEN 8

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4800.0usft (Original Well Elev)
Site:	SE NW SEC. 8 T6N R65W 6th P.M.	North Reference:	True
Well:	JANSSEN 8	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	4,800.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,700.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,600.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,500.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,400.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,300.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,200.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,100.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	4,000.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,900.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,800.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,700.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,600.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,500.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,400.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,300.00	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	3,200.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
1,650.0	0.00	0.00	1,650.0	3,150.00	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	1.00	29.19	1,700.0	3,100.00	0.4	0.2	-0.1	2.00	2.00	0.00
1,800.0	3.00	29.19	1,799.9	3,000.07	3.4	1.9	-1.2	2.00	2.00	0.00
1,900.0	5.00	29.19	1,899.7	2,900.32	9.5	5.3	-3.4	2.00	2.00	0.00
2,000.0	7.00	29.19	1,999.1	2,800.87	18.6	10.4	-6.6	2.00	2.00	0.00
2,100.0	9.00	29.19	2,098.2	2,701.85	30.8	17.2	-10.9	2.00	2.00	0.00
EOB TO 9.33° INC										
2,116.6	9.33	29.19	2,114.5	2,685.47	33.1	18.5	-11.8	2.00	2.00	0.00
2,200.0	9.33	29.19	2,196.8	2,603.16	44.9	25.1	-15.9	0.00	0.00	0.00
2,300.0	9.33	29.19	2,295.5	2,504.49	59.1	33.0	-21.0	0.00	0.00	0.00
2,400.0	9.33	29.19	2,394.2	2,405.81	73.2	40.9	-26.0	0.00	0.00	0.00
2,500.0	9.33	29.19	2,492.9	2,307.13	87.4	48.8	-31.0	0.00	0.00	0.00
2,600.0	9.33	29.19	2,591.5	2,208.46	101.5	56.7	-36.1	0.00	0.00	0.00
2,700.0	9.33	29.19	2,690.2	2,109.78	115.7	64.6	-41.1	0.00	0.00	0.00
2,800.0	9.33	29.19	2,788.9	2,011.10	129.8	72.5	-46.1	0.00	0.00	0.00
2,900.0	9.33	29.19	2,887.6	1,912.43	144.0	80.4	-51.1	0.00	0.00	0.00
3,000.0	9.33	29.19	2,986.2	1,813.75	158.2	88.4	-56.2	0.00	0.00	0.00
3,100.0	9.33	29.19	3,084.9	1,715.07	172.3	96.3	-61.2	0.00	0.00	0.00
3,200.0	9.33	29.19	3,183.6	1,616.40	186.5	104.2	-66.2	0.00	0.00	0.00
3,300.0	9.33	29.19	3,282.3	1,517.72	200.6	112.1	-71.3	0.00	0.00	0.00
3,400.0	9.33	29.19	3,381.0	1,419.04	214.8	120.0	-76.3	0.00	0.00	0.00
3,500.0	9.33	29.19	3,479.6	1,320.37	228.9	127.9	-81.3	0.00	0.00	0.00
PARKMAN										
3,540.9	9.33	29.19	3,520.0	1,280.00	234.7	131.1	-83.4	0.00	0.00	0.00
3,600.0	9.33	29.19	3,578.3	1,221.69	243.1	135.8	-86.3	0.00	0.00	0.00
3,700.0	9.33	29.19	3,677.0	1,123.01	257.2	143.7	-91.4	0.00	0.00	0.00
3,800.0	9.33	29.19	3,775.7	1,024.34	271.4	151.6	-96.4	0.00	0.00	0.00
3,900.0	9.33	29.19	3,874.3	925.66	285.6	159.5	-101.4	0.00	0.00	0.00
4,000.0	9.33	29.19	3,973.0	826.99	299.7	167.4	-106.5	0.00	0.00	0.00
4,100.0	9.33	29.19	4,071.7	728.31	313.9	175.3	-111.5	0.00	0.00	0.00
4,200.0	9.33	29.19	4,170.4	629.63	328.0	183.2	-116.5	0.00	0.00	0.00
4,300.0	9.33	29.19	4,269.0	530.96	342.2	191.2	-121.5	0.00	0.00	0.00
SUSSEX										
4,371.9	9.33	29.19	4,340.0	460.00	352.4	196.8	-125.2	0.00	0.00	0.00
4,400.0	9.33	29.19	4,367.7	432.28	356.3	199.1	-126.6	0.00	0.00	0.00
4,500.0	9.33	29.19	4,466.4	333.60	370.5	207.0	-131.6	0.00	0.00	0.00

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Well:	JANSSEN 8	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)
4,600.0	9.33	29.19	4,565.1	234.93	384.6	214.9	-136.6	0.00	0.00	0.00
4,700.0	9.33	29.19	4,663.8	136.25	398.8	222.8	-141.6	0.00	0.00	0.00
4,800.0	9.33	29.19	4,762.4	37.57	413.0	230.7	-146.7	0.00	0.00	0.00
4,900.0	9.33	29.19	4,861.1	-61.10	427.1	238.6	-151.7	0.00	0.00	0.00
5,000.0	9.33	29.19	4,959.8	-159.78	441.3	246.5	-156.7	0.00	0.00	0.00
5,100.0	9.33	29.19	5,058.5	-258.46	455.4	254.4	-161.8	0.00	0.00	0.00
5,200.0	9.33	29.19	5,157.1	-357.13	469.6	262.3	-166.8	0.00	0.00	0.00
5,300.0	9.33	29.19	5,255.8	-455.81	483.7	270.2	-171.8	0.00	0.00	0.00
5,400.0	9.33	29.19	5,354.5	-554.49	497.9	278.1	-176.8	0.00	0.00	0.00
5,500.0	9.33	29.19	5,453.2	-653.16	512.0	286.1	-181.9	0.00	0.00	0.00
5,600.0	9.33	29.19	5,551.8	-751.84	526.2	294.0	-186.9	0.00	0.00	0.00
5,700.0	9.33	29.19	5,650.5	-850.52	540.4	301.9	-191.9	0.00	0.00	0.00
SHANNON										
5,795.7	9.33	29.19	5,745.0	-945.00	553.9	309.4	-196.7	0.00	0.00	0.00
5,800.0	9.33	29.19	5,749.2	-949.19	554.5	309.8	-197.0	0.00	0.00	0.00
5,900.0	9.33	29.19	5,847.9	-1,047.87	568.7	317.7	-202.0	0.00	0.00	0.00
6,000.0	9.33	29.19	5,946.5	-1,146.55	582.8	325.6	-207.0	0.00	0.00	0.00
6,100.0	9.33	29.19	6,045.2	-1,245.22	597.0	333.5	-212.0	0.00	0.00	0.00
END OF TANGENT										
6,141.8	9.33	29.19	6,086.5	-1,286.47	602.9	336.8	-214.1	0.00	0.00	0.00
6,200.0	8.17	29.19	6,144.0	-1,343.99	610.6	341.1	-216.9	2.00	-2.00	0.00
6,300.0	6.17	29.19	6,243.2	-1,443.21	621.5	347.2	-220.8	2.00	-2.00	0.00
6,400.0	4.17	29.19	6,342.8	-1,542.79	629.4	351.6	-223.5	2.00	-2.00	0.00
6,500.0	2.17	29.19	6,442.6	-1,642.64	634.2	354.3	-225.3	2.00	-2.00	0.00
6,600.0	0.17	29.19	6,542.6	-1,742.61	636.0	355.3	-225.9	2.00	-2.00	0.00
EOD TO VERTICAL										
6,608.4	0.00	0.00	6,551.0	-1,751.00	636.0	355.3	-225.9	2.00	-2.00	0.00
KOP (10°/100ft BUR)										
6,638.4	0.00	0.00	6,581.0	-1,781.00	636.0	355.3	-225.9	0.00	0.00	0.00
6,700.0	6.16	273.07	6,642.5	-1,842.49	636.2	352.0	-222.6	10.00	10.00	0.00
6,800.0	16.16	273.07	6,740.5	-1,940.48	637.2	332.7	-203.5	10.00	10.00	0.00
SHARON SPRINGS										
6,898.2	25.98	273.07	6,832.0	-2,032.00	639.1	297.5	-168.6	10.00	10.00	0.00
6,900.0	26.16	273.07	6,833.6	-2,033.62	639.1	296.7	-167.8	10.00	10.00	0.00
NIOBRARA										
6,927.5	28.91	273.07	6,858.0	-2,058.00	639.8	284.0	-155.2	10.00	10.00	0.00
7,000.0	36.16	273.07	6,919.1	-2,119.08	641.9	245.1	-116.6	10.00	10.00	0.00
NIO B										
7,066.0	42.76	273.07	6,970.0	-2,170.00	644.2	203.2	-75.1	10.00	10.00	0.00
7,100.0	46.16	273.07	6,994.3	-2,194.28	645.4	179.5	-51.5	10.00	10.00	0.00
7,200.0	56.16	273.07	7,056.9	-2,256.91	649.6	101.8	25.5	10.00	10.00	0.00
7,300.0	66.16	273.07	7,105.1	-2,305.09	654.3	14.4	112.1	10.00	10.00	0.00
FORT HAYS										
7,304.8	66.63	273.07	7,107.0	-2,307.00	654.5	10.1	116.4	10.00	10.00	0.00
7,400.0	76.16	273.07	7,137.4	-2,337.35	659.4	-80.0	205.7	10.00	10.00	0.00
CODELL										
7,431.2	79.28	273.07	7,144.0	-2,344.00	661.0	-110.4	235.9	10.00	10.00	0.00
7,500.0	86.15	273.07	7,152.7	-2,352.71	664.6	-178.5	303.4	10.00	10.00	0.00
7" ICP - JANSSEN 8										
7,538.5	90.00	273.07	7,154.0	-2,354.00	666.7	-216.9	341.5	10.00	10.00	0.00
7,600.0	90.00	273.07	7,154.0	-2,354.00	670.0	-278.3	402.4	0.00	0.00	0.00
7,700.0	90.00	273.07	7,154.0	-2,353.99	675.4	-378.2	501.4	0.00	0.00	0.00

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4800.0usft (Original Well Elev)
Site:	SE NW SEC. 8 T6N R65W 6th P.M.	North Reference:	True
Well:	JANSSEN 8	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)
7,800.0	90.00	273.07	7,154.0	-2,353.99	680.7	-478.0	600.4	0.00	0.00	0.00
7,900.0	90.00	273.07	7,154.0	-2,353.98	686.1	-577.9	699.4	0.00	0.00	0.00
8,000.0	90.00	273.07	7,154.0	-2,353.98	691.4	-677.8	798.4	0.00	0.00	0.00
8,100.0	90.00	273.07	7,154.0	-2,353.97	696.8	-777.6	897.5	0.00	0.00	0.00
8,200.0	90.00	273.07	7,154.0	-2,353.97	702.2	-877.5	996.5	0.00	0.00	0.00
8,300.0	90.00	273.07	7,154.0	-2,353.96	707.5	-977.3	1,095.5	0.00	0.00	0.00
8,400.0	90.00	273.07	7,154.0	-2,353.96	712.9	-1,077.2	1,194.5	0.00	0.00	0.00
8,500.0	90.00	273.07	7,154.0	-2,353.96	718.2	-1,177.0	1,293.5	0.00	0.00	0.00
8,600.0	90.00	273.07	7,154.0	-2,353.95	723.6	-1,276.9	1,392.5	0.00	0.00	0.00
8,700.0	90.00	273.07	7,154.0	-2,353.95	728.9	-1,376.8	1,491.5	0.00	0.00	0.00
8,800.0	90.00	273.07	7,153.9	-2,353.95	734.3	-1,476.6	1,590.5	0.00	0.00	0.00
8,900.0	90.00	273.07	7,153.9	-2,353.95	739.6	-1,576.5	1,689.6	0.00	0.00	0.00
9,000.0	90.00	273.07	7,153.9	-2,353.94	745.0	-1,676.3	1,788.6	0.00	0.00	0.00
9,100.0	90.00	273.07	7,153.9	-2,353.94	750.3	-1,776.2	1,887.6	0.00	0.00	0.00
9,200.0	90.00	273.07	7,153.9	-2,353.94	755.7	-1,876.0	1,986.6	0.00	0.00	0.00
9,300.0	90.00	273.07	7,153.9	-2,353.94	761.0	-1,975.9	2,085.6	0.00	0.00	0.00
9,400.0	90.00	273.07	7,153.9	-2,353.94	766.4	-2,075.7	2,184.6	0.00	0.00	0.00
9,500.0	90.00	273.07	7,153.9	-2,353.94	771.7	-2,175.6	2,283.6	0.00	0.00	0.00
9,600.0	90.00	273.07	7,153.9	-2,353.94	777.1	-2,275.5	2,382.6	0.00	0.00	0.00
9,700.0	90.00	273.07	7,153.9	-2,353.94	782.4	-2,375.3	2,481.7	0.00	0.00	0.00
9,800.0	90.00	273.07	7,153.9	-2,353.94	787.8	-2,475.2	2,580.7	0.00	0.00	0.00
9,900.0	90.00	273.07	7,153.9	-2,353.94	793.1	-2,575.0	2,679.7	0.00	0.00	0.00
10,000.0	90.00	273.07	7,153.9	-2,353.94	798.5	-2,674.9	2,778.7	0.00	0.00	0.00
10,100.0	90.00	273.06	7,153.9	-2,353.94	803.8	-2,774.7	2,877.7	0.00	0.00	0.00
10,200.0	90.00	273.06	7,153.9	-2,353.94	809.2	-2,874.6	2,976.7	0.00	0.00	0.00
10,300.0	90.00	273.06	7,153.9	-2,353.94	814.5	-2,974.5	3,075.7	0.00	0.00	0.00
10,400.0	90.00	273.06	7,153.9	-2,353.94	819.9	-3,074.3	3,174.7	0.00	0.00	0.00
10,500.0	90.00	273.06	7,153.9	-2,353.94	825.2	-3,174.2	3,273.8	0.00	0.00	0.00
10,600.0	90.00	273.06	7,153.9	-2,353.95	830.6	-3,274.0	3,372.8	0.00	0.00	0.00
10,700.0	90.00	273.06	7,153.9	-2,353.95	835.9	-3,373.9	3,471.8	0.00	0.00	0.00
10,800.0	90.00	273.06	7,154.0	-2,353.95	841.2	-3,473.7	3,570.8	0.00	0.00	0.00
10,900.0	90.00	273.06	7,154.0	-2,353.95	846.6	-3,573.6	3,669.8	0.00	0.00	0.00
11,000.0	90.00	273.06	7,154.0	-2,353.96	851.9	-3,673.5	3,768.8	0.00	0.00	0.00
11,100.0	90.00	273.06	7,154.0	-2,353.96	857.3	-3,773.3	3,867.8	0.00	0.00	0.00
11,200.0	90.00	273.06	7,154.0	-2,353.97	862.6	-3,873.2	3,966.8	0.00	0.00	0.00
11,300.0	90.00	273.06	7,154.0	-2,353.97	868.0	-3,973.0	4,065.8	0.00	0.00	0.00
11,400.0	90.00	273.06	7,154.0	-2,353.97	873.3	-4,072.9	4,164.9	0.00	0.00	0.00
11,500.0	90.00	273.06	7,154.0	-2,353.98	878.6	-4,172.7	4,263.9	0.00	0.00	0.00
11,600.0	90.00	273.06	7,154.0	-2,353.98	884.0	-4,272.6	4,362.9	0.00	0.00	0.00
11,700.0	90.00	273.06	7,154.0	-2,353.99	889.3	-4,372.5	4,461.9	0.00	0.00	0.00
11,800.0	90.00	273.06	7,154.0	-2,353.99	894.7	-4,472.3	4,560.9	0.00	0.00	0.00
11,900.0	90.00	273.06	7,154.0	-2,354.00	900.0	-4,572.2	4,659.9	0.00	0.00	0.00
BHL - JANSSEN 8										
11,905.7	90.00	273.06	7,154.0	-2,354.00	900.3	-4,577.9	4,665.6	0.01	0.00	-0.01

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well JANSSEN 8
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB-EST @ 4800.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4800.0usft (Original Well Elev)
Site:	SE NW SEC. 8 T6N R65W 6th P.M.	North Reference:	True
Well:	JANSSEN 8	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,540.9	3,520.0	PARKMAN				
4,371.9	4,340.0	SUSSEX				
5,795.7	5,745.0	SHANNON				
6,898.2	6,832.0	SHARON SPRINGS				
6,927.5	6,858.0	NIOBRARA				
7,066.0	6,970.0	NIO B				
7,304.8	7,107.0	FORT HAYS				
7,431.2	7,144.0	CODELL				

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,650.0	1,650.0	0.0	0.0	START NUDGE (2°/100ft BUR)
2,116.6	2,114.5	33.1	18.5	EOB TO 9.33° INC
6,141.8	6,086.5	602.9	336.8	END OF TANGENT
6,608.4	6,551.0	636.0	355.3	EOD TO VERTICAL
6,638.4	6,581.0	636.0	355.3	KOP (10°/100ft BUR)
7,538.5	7,154.0	666.7	-216.9	7" ICP - JANSSEN 8
11,905.7	7,154.0	900.3	-4,577.9	BHL - JANSSEN 8