

PDC ENERGY

**WELD COUNTY, COLORADO
NE SW SEC. 7 T4N R64W 6th P.M.
HONEBEIN 7G-203**

ORIGINAL WELLBORE

09 July, 2015

Plan: PROPOSAL #2





Project: WELD COUNTY, COLORADO
Site: NE SW SEC. 7 T4N R64W 6th P.M.
Well: HONEBEIN 7G-203
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation	
1000.0	1000.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)	
1727.6	1735.7	14.71	282.67	20.6	-91.7	-5.3	93.9	EOB TO 14.71° INC	
5510.9	5647.2	14.71	282.67	238.6	-1060.9	-61.2	1087.4	END OF TANGENT	
6238.5	6382.9	0.00	0.00	259.2	-1152.6	-66.5	1181.4	EOD TO VERTICAL	
6268.5	6412.9	0.00	0.00	259.2	-1152.6	-66.5	1181.4	KOP (8°/100ft BUR)	
6984.7	7541.4	90.28	180.21	-460.5	-1155.2	643.9	1901.1	7" ICP *NEW* - HONEBEIN 7G-203 (P2)	
6952.0	14170.4	90.29	180.21	-7089.4	-1179.8	7186.9	8530.0	BHL - HONEBEIN 7G-203 (P2)	

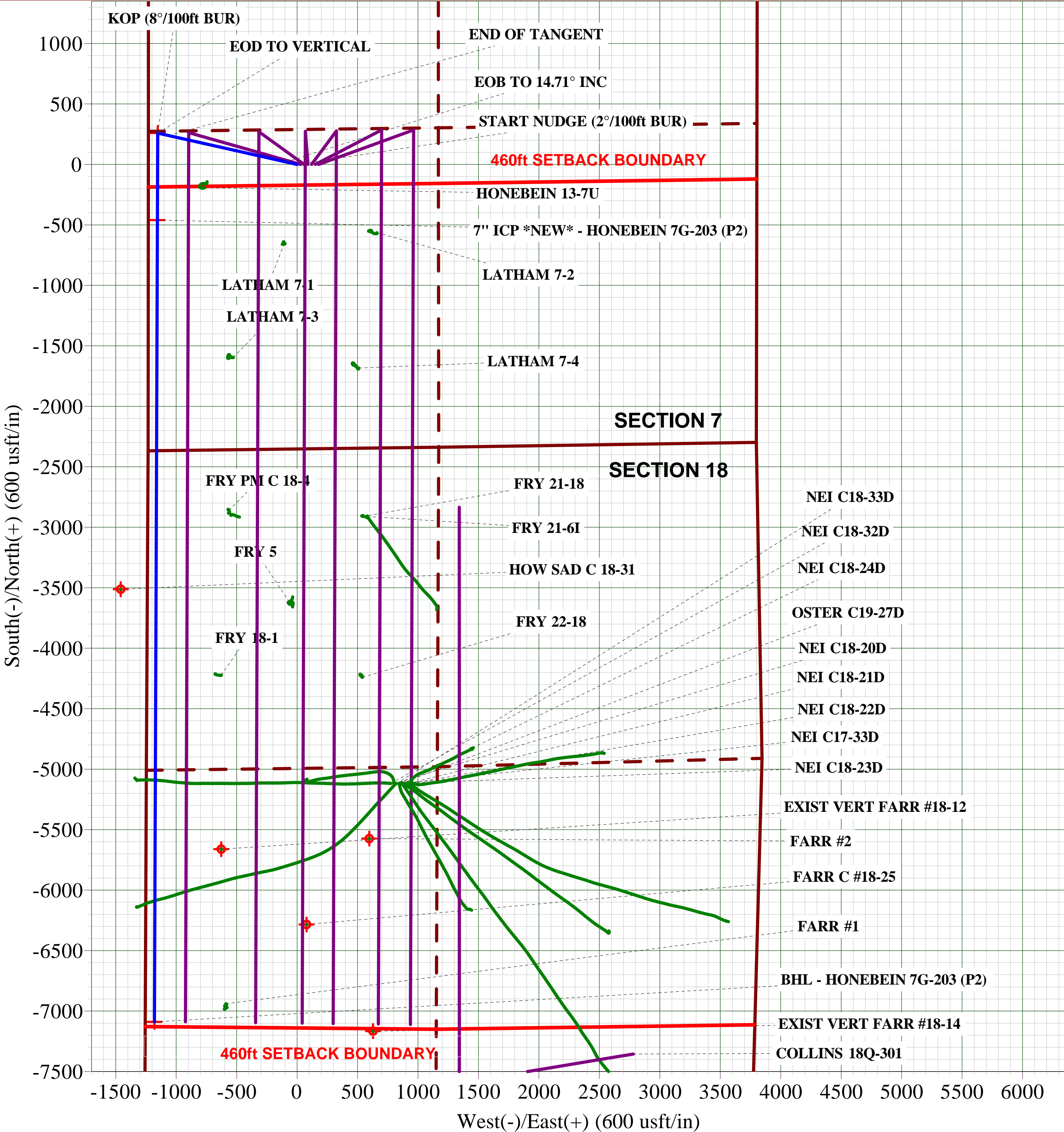
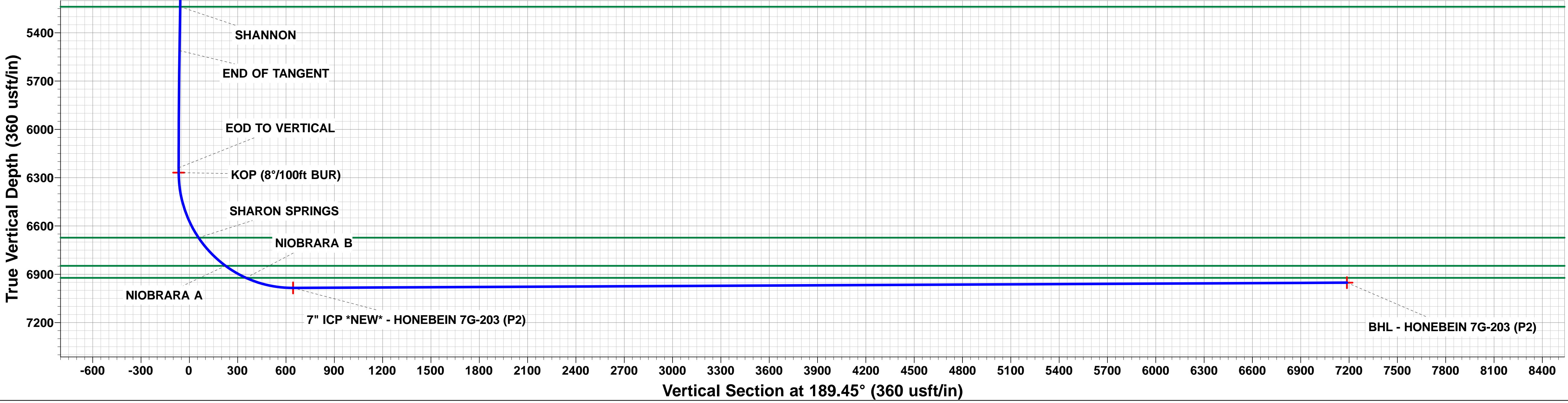
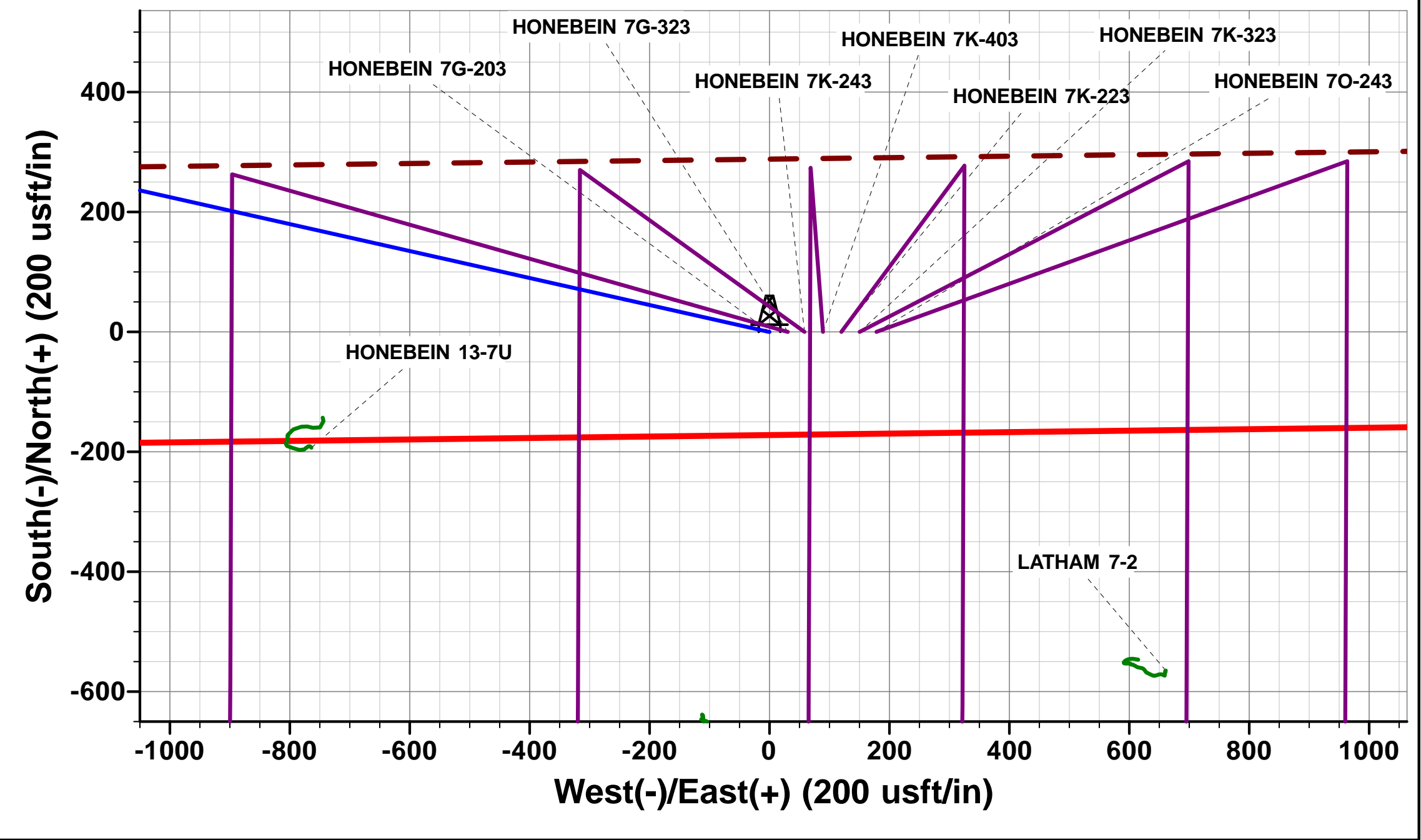
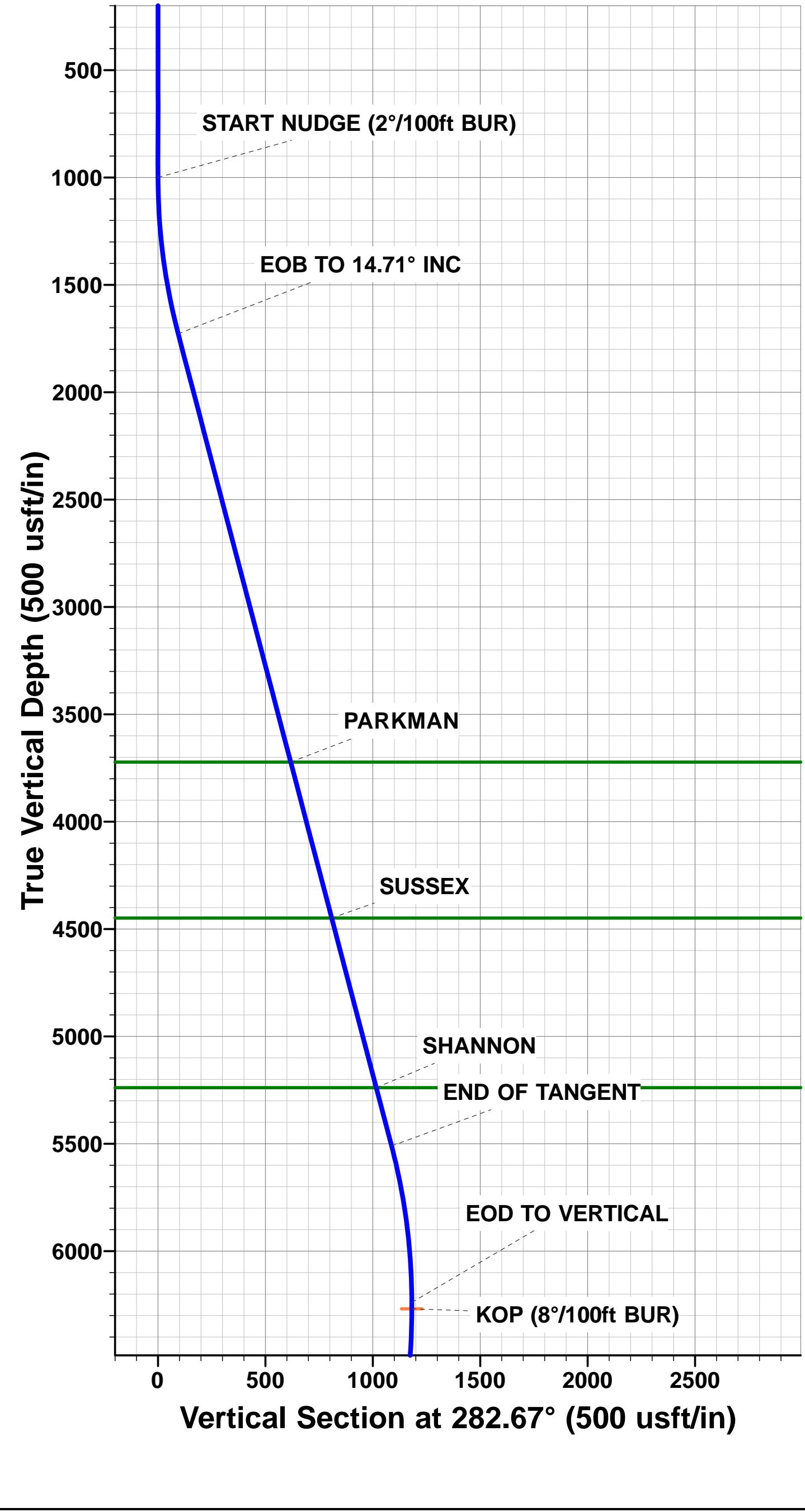
PROPOSED LOCAL COORDINATES:

SHL: 2352ft FSL & 1230t FWL Sec 7

7" ICP *NEW*: 1907.3ft FSL & 75ft FWL Sec 7

BHL: 500ft FSL & 75ft FWL of Sec 18

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - HONEBEIN 7G-203 (P2)	6268.5	259.2	-1152.6	40.326641	-104.601764
BHL - HONEBEIN 7G-203 (P2)	6952.0	-7089.4	-1179.8	40.306470	-104.601860
7" ICP *NEW* - HONEBEIN 7G-203 (P2)	6984.7	-460.5	-1155.2	40.324666	-104.601773



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well HONEBEIN 7G-203
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4859.5usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4859.5usft (Original Well Elev)
Site:	NE SW SEC. 7 T4N R64W 6th P.M.	North Reference:	True
Well:	HONEBEIN 7G-203	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Project	WELD COUNTY, COLORADO		
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	NE SW SEC. 7 T4N R64W 6th P.M.		
Site Position:		Northing:	1,362,859.07 usft
From:	Lat/Long	Easting:	3,251,768.07 usft
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft
		Latitude:	40.325930
		Longitude:	-104.596990
		Grid Convergence:	0.58 °

Well	HONEBEIN 7G-203		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	-178.4 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	30/06/2015	8.32	66.87	52,595

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 (°)
	6,952.0	0.0	0.0	189.45

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	-4,859.5	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	-3,859.5	0.0	0.0	0.00	0.00	0.00	0.00	
1,735.7	14.71	282.67	1,727.6	-3,131.9	20.6	-91.7	2.00	2.00	0.00	282.67	
5,647.2	14.71	282.67	5,510.9	651.4	238.6	-1,060.9	0.00	0.00	0.00	0.00	
6,382.9	0.00	0.00	6,238.5	1,379.0	259.2	-1,152.6	2.00	-2.00	0.00	180.00	
6,412.9	0.00	0.00	6,268.5	1,409.0	259.2	-1,152.6	0.00	0.00	0.00	0.00	KOP - HONEBEIN
7,541.4	90.28	180.21	6,984.7	2,125.2	-460.5	-1,155.2	8.00	8.00	0.00	180.21	
14,170.4	90.29	180.21	6,952.0	2,092.5	-7,089.4	-1,179.8	0.00	0.00	0.00	39.28	BHL - HONEBEIN

Planning Report



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Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4859.5usft (Original Well Elev)
Site:	NE SW SEC. 7 T4N R64W 6th P.M.	North Reference:	True
Well:	HONEBEIN 7G-203	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	4,859.50	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,759.50	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,659.50	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,559.50	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,459.50	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,359.50	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,259.50	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,159.50	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	4,059.50	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,959.50	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
1,000.0	0.00	0.00	1,000.0	3,859.50	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	2.00	282.67	1,100.0	3,759.52	0.4	-1.7	-0.1	2.00	2.00	0.00
1,200.0	4.00	282.67	1,199.8	3,659.66	1.5	-6.8	-0.4	2.00	2.00	0.00
1,300.0	6.00	282.67	1,299.5	3,560.05	3.4	-15.3	-0.9	2.00	2.00	0.00
1,400.0	8.00	282.67	1,398.7	3,460.80	6.1	-27.2	-1.6	2.00	2.00	0.00
1,500.0	10.00	282.67	1,497.5	3,362.03	9.5	-42.5	-2.4	2.00	2.00	0.00
1,600.0	12.00	282.67	1,595.6	3,263.88	13.7	-61.1	-3.5	2.00	2.00	0.00
1,700.0	14.00	282.67	1,693.1	3,166.44	18.7	-83.0	-4.8	2.00	2.00	0.00
EOB TO 14.71° INC										
1,735.7	14.71	282.67	1,727.6	3,131.86	20.6	-91.7	-5.3	2.00	2.00	0.00
1,800.0	14.71	282.67	1,789.8	3,069.67	24.2	-107.6	-6.2	0.00	0.00	0.00
1,900.0	14.71	282.67	1,886.6	2,972.95	29.8	-132.4	-7.6	0.00	0.00	0.00
2,000.0	14.71	282.67	1,983.3	2,876.23	35.3	-157.2	-9.1	0.00	0.00	0.00
2,100.0	14.71	282.67	2,080.0	2,779.51	40.9	-181.9	-10.5	0.00	0.00	0.00
2,200.0	14.71	282.67	2,176.7	2,682.79	46.5	-206.7	-11.9	0.00	0.00	0.00
2,300.0	14.71	282.67	2,273.4	2,586.07	52.1	-231.5	-13.4	0.00	0.00	0.00
2,400.0	14.71	282.67	2,370.2	2,489.34	57.6	-256.3	-14.8	0.00	0.00	0.00
2,500.0	14.71	282.67	2,466.9	2,392.62	63.2	-281.1	-16.2	0.00	0.00	0.00
2,600.0	14.71	282.67	2,563.6	2,295.90	68.8	-305.8	-17.6	0.00	0.00	0.00
2,700.0	14.71	282.67	2,660.3	2,199.18	74.3	-330.6	-19.1	0.00	0.00	0.00
2,800.0	14.71	282.67	2,757.0	2,102.46	79.9	-355.4	-20.5	0.00	0.00	0.00
2,900.0	14.71	282.67	2,853.8	2,005.74	85.5	-380.2	-21.9	0.00	0.00	0.00
3,000.0	14.71	282.67	2,950.5	1,909.02	91.1	-405.0	-23.4	0.00	0.00	0.00
3,100.0	14.71	282.67	3,047.2	1,812.30	96.6	-429.7	-24.8	0.00	0.00	0.00
3,200.0	14.71	282.67	3,143.9	1,715.58	102.2	-454.5	-26.2	0.00	0.00	0.00
3,300.0	14.71	282.67	3,240.6	1,618.86	107.8	-479.3	-27.6	0.00	0.00	0.00
3,400.0	14.71	282.67	3,337.4	1,522.14	113.4	-504.1	-29.1	0.00	0.00	0.00
3,500.0	14.71	282.67	3,434.1	1,425.42	118.9	-528.9	-30.5	0.00	0.00	0.00
3,600.0	14.71	282.67	3,530.8	1,328.70	124.5	-553.6	-31.9	0.00	0.00	0.00
3,700.0	14.71	282.67	3,627.5	1,231.98	130.1	-578.4	-33.4	0.00	0.00	0.00
PARKMAN										
3,798.2	14.71	282.67	3,722.5	1,137.00	135.5	-602.8	-34.8	0.00	0.00	0.00
3,800.0	14.71	282.67	3,724.2	1,135.26	135.6	-603.2	-34.8	0.00	0.00	0.00
3,900.0	14.71	282.67	3,821.0	1,038.54	141.2	-628.0	-36.2	0.00	0.00	0.00
4,000.0	14.71	282.67	3,917.7	941.81	146.8	-652.8	-37.6	0.00	0.00	0.00
4,100.0	14.71	282.67	4,014.4	845.09	152.4	-677.5	-39.1	0.00	0.00	0.00
4,200.0	14.71	282.67	4,111.1	748.37	157.9	-702.3	-40.5	0.00	0.00	0.00
4,300.0	14.71	282.67	4,207.8	651.65	163.5	-727.1	-41.9	0.00	0.00	0.00
4,400.0	14.71	282.67	4,304.6	554.93	169.1	-751.9	-43.4	0.00	0.00	0.00
4,500.0	14.71	282.67	4,401.3	458.21	174.7	-776.7	-44.8	0.00	0.00	0.00
SUSSEX										
4,548.8	14.71	282.67	4,448.5	411.00	177.4	-788.8	-45.5	0.00	0.00	0.00
4,600.0	14.71	282.67	4,498.0	361.49	180.2	-801.4	-46.2	0.00	0.00	0.00

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Well:	HONEBEIN 7G-203	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	14.71	282.67	4,594.7	264.77	185.8	-826.2	-47.7	0.00	0.00	0.00
4,800.0	14.71	282.67	4,691.5	168.05	191.4	-851.0	-49.1	0.00	0.00	0.00
4,900.0	14.71	282.67	4,788.2	71.33	196.9	-875.8	-50.5	0.00	0.00	0.00
5,000.0	14.71	282.67	4,884.9	-25.39	202.5	-900.6	-51.9	0.00	0.00	0.00
5,100.0	14.71	282.67	4,981.6	-122.11	208.1	-925.3	-53.4	0.00	0.00	0.00
5,200.0	14.71	282.67	5,078.3	-218.83	213.7	-950.1	-54.8	0.00	0.00	0.00
5,300.0	14.71	282.67	5,175.1	-315.55	219.2	-974.9	-56.2	0.00	0.00	0.00
SHANNON										
5,365.6	14.71	282.67	5,238.5	-379.00	222.9	-991.2	-57.2	0.00	0.00	0.00
5,400.0	14.71	282.67	5,271.8	-412.27	224.8	-999.7	-57.7	0.00	0.00	0.00
5,500.0	14.71	282.67	5,368.5	-508.99	230.4	-1,024.5	-59.1	0.00	0.00	0.00
5,600.0	14.71	282.67	5,465.2	-605.72	236.0	-1,049.2	-60.5	0.00	0.00	0.00
END OF TANGENT										
5,647.2	14.71	282.67	5,510.9	-651.37	238.6	-1,060.9	-61.2	0.00	0.00	0.00
5,700.0	13.66	282.67	5,562.1	-702.56	241.4	-1,073.6	-61.9	2.00	-2.00	0.00
5,800.0	11.66	282.67	5,659.6	-800.12	246.2	-1,094.9	-63.2	2.00	-2.00	0.00
5,900.0	9.66	282.67	5,757.9	-898.39	250.3	-1,113.0	-64.2	2.00	-2.00	0.00
6,000.0	7.66	282.67	5,856.7	-997.25	253.6	-1,127.7	-65.0	2.00	-2.00	0.00
6,100.0	5.66	282.67	5,956.1	-1,096.57	256.1	-1,139.0	-65.7	2.00	-2.00	0.00
6,200.0	3.66	282.67	6,055.7	-1,196.23	257.9	-1,146.9	-66.1	2.00	-2.00	0.00
6,300.0	1.66	282.67	6,155.6	-1,296.12	258.9	-1,151.4	-66.4	2.00	-2.00	0.00
EOD TO VERTICAL										
6,382.9	0.00	0.00	6,238.5	-1,379.01	259.2	-1,152.6	-66.5	2.00	-2.00	0.00
6,400.0	0.00	0.00	6,255.6	-1,396.11	259.2	-1,152.6	-66.5	0.00	0.00	0.00
KOP (8°/100ft BUR)										
6,412.9	0.00	0.00	6,268.5	-1,409.01	259.2	-1,152.6	-66.5	0.00	0.00	0.00
6,500.0	6.97	180.21	6,355.4	-1,495.89	253.9	-1,152.6	-61.3	8.00	8.00	0.00
6,600.0	14.97	180.21	6,453.5	-1,593.99	234.9	-1,152.7	-42.5	8.00	8.00	0.00
6,700.0	22.97	180.21	6,548.0	-1,688.48	202.4	-1,152.8	-10.4	8.00	8.00	0.00
6,800.0	30.97	180.21	6,637.0	-1,777.53	157.1	-1,153.0	34.3	8.00	8.00	0.00
SHARON SPRINGS										
6,842.1	34.34	180.21	6,672.5	-1,813.00	134.4	-1,153.1	56.7	8.00	8.00	0.00
6,900.0	38.97	180.21	6,718.9	-1,859.41	99.8	-1,153.2	90.8	8.00	8.00	0.00
7,000.0	46.97	180.21	6,792.0	-1,932.53	31.7	-1,153.4	158.0	8.00	8.00	0.00
NIORARA A										
7,087.2	53.94	180.21	6,847.5	-1,988.00	-35.5	-1,153.7	224.4	8.00	8.00	0.00
7,100.0	54.97	180.21	6,854.9	-1,995.45	-45.9	-1,153.7	234.6	8.00	8.00	0.00
7,200.0	62.97	180.21	6,906.5	-2,046.96	-131.5	-1,154.0	319.2	8.00	8.00	0.00
NIORARA B										
7,237.2	65.95	180.21	6,922.5	-2,063.00	-165.1	-1,154.2	352.3	8.00	8.00	0.00
7,300.0	70.97	180.21	6,945.5	-2,086.05	-223.5	-1,154.4	409.9	8.00	8.00	0.00
7,400.0	78.97	180.21	6,971.5	-2,111.96	-320.0	-1,154.7	505.2	8.00	8.00	0.00
7,500.0	86.97	180.21	6,983.7	-2,124.20	-419.1	-1,155.1	603.0	8.00	8.00	0.00
7" ICP *NEW* - HONEBEIN 7G-203 (P2)										
7,541.4	90.28	180.21	6,984.7	-2,125.19	-460.5	-1,155.2	643.9	8.00	8.00	0.00
7,600.0	90.28	180.21	6,984.4	-2,124.90	-519.1	-1,155.5	701.7	0.00	0.00	0.00
7,700.0	90.28	180.21	6,983.9	-2,124.41	-619.1	-1,155.8	800.4	0.00	0.00	0.00
7,800.0	90.28	180.21	6,983.4	-2,123.92	-719.1	-1,156.2	899.1	0.00	0.00	0.00
7,900.0	90.28	180.21	6,982.9	-2,123.44	-819.1	-1,156.6	997.8	0.00	0.00	0.00
8,000.0	90.28	180.21	6,982.4	-2,122.95	-919.1	-1,156.9	1,096.5	0.00	0.00	0.00
8,100.0	90.28	180.21	6,982.0	-2,122.46	-1,019.1	-1,157.3	1,195.2	0.00	0.00	0.00
8,200.0	90.28	180.21	6,981.5	-2,121.97	-1,119.1	-1,157.7	1,293.9	0.00	0.00	0.00
8,300.0	90.28	180.21	6,981.0	-2,121.48	-1,219.1	-1,158.0	1,392.6	0.00	0.00	0.00

Planning Report



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Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4859.5usft (Original Well Elev)
Site:	NE SW SEC. 7 T4N R64W 6th P.M.	North Reference:	True
Well:	HONEBEIN 7G-203	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)
8,400.0	90.28	180.21	6,980.5	-2,120.99	-1,319.1	-1,158.4	1,491.3	0.00	0.00	0.00
8,500.0	90.28	180.21	6,980.0	-2,120.50	-1,419.1	-1,158.8	1,590.0	0.00	0.00	0.00
8,600.0	90.28	180.21	6,979.5	-2,120.01	-1,519.1	-1,159.1	1,688.8	0.00	0.00	0.00
8,700.0	90.28	180.21	6,979.0	-2,119.52	-1,619.1	-1,159.5	1,787.5	0.00	0.00	0.00
8,800.0	90.28	180.21	6,978.5	-2,119.03	-1,719.1	-1,159.9	1,886.2	0.00	0.00	0.00
8,900.0	90.28	180.21	6,978.0	-2,118.54	-1,819.1	-1,160.2	1,984.9	0.00	0.00	0.00
9,000.0	90.28	180.21	6,977.5	-2,118.05	-1,919.1	-1,160.6	2,083.6	0.00	0.00	0.00
9,100.0	90.28	180.21	6,977.1	-2,117.56	-2,019.1	-1,161.0	2,182.3	0.00	0.00	0.00
9,200.0	90.28	180.21	6,976.6	-2,117.06	-2,119.1	-1,161.3	2,281.0	0.00	0.00	0.00
9,300.0	90.28	180.21	6,976.1	-2,116.57	-2,219.1	-1,161.7	2,379.7	0.00	0.00	0.00
9,400.0	90.28	180.21	6,975.6	-2,116.08	-2,319.1	-1,162.1	2,478.4	0.00	0.00	0.00
9,500.0	90.28	180.21	6,975.1	-2,115.59	-2,419.1	-1,162.4	2,577.1	0.00	0.00	0.00
9,600.0	90.28	180.21	6,974.6	-2,115.10	-2,519.1	-1,162.8	2,675.8	0.00	0.00	0.00
9,700.0	90.28	180.21	6,974.1	-2,114.61	-2,619.1	-1,163.2	2,774.5	0.00	0.00	0.00
9,800.0	90.28	180.21	6,973.6	-2,114.12	-2,719.1	-1,163.5	2,873.2	0.00	0.00	0.00
9,900.0	90.28	180.21	6,973.1	-2,113.63	-2,819.1	-1,163.9	2,971.9	0.00	0.00	0.00
10,000.0	90.28	180.21	6,972.6	-2,113.13	-2,919.1	-1,164.3	3,070.6	0.00	0.00	0.00
10,100.0	90.28	180.21	6,972.1	-2,112.64	-3,019.1	-1,164.7	3,169.3	0.00	0.00	0.00
10,200.0	90.28	180.21	6,971.6	-2,112.15	-3,119.1	-1,165.0	3,268.0	0.00	0.00	0.00
10,300.0	90.28	180.21	6,971.2	-2,111.66	-3,219.0	-1,165.4	3,366.7	0.00	0.00	0.00
10,400.0	90.28	180.21	6,970.7	-2,111.16	-3,319.0	-1,165.8	3,465.4	0.00	0.00	0.00
10,500.0	90.28	180.21	6,970.2	-2,110.67	-3,419.0	-1,166.1	3,564.1	0.00	0.00	0.00
10,600.0	90.28	180.21	6,969.7	-2,110.18	-3,519.0	-1,166.5	3,662.8	0.00	0.00	0.00
10,700.0	90.28	180.21	6,969.2	-2,109.69	-3,619.0	-1,166.9	3,761.5	0.00	0.00	0.00
10,800.0	90.28	180.21	6,968.7	-2,109.19	-3,719.0	-1,167.2	3,860.2	0.00	0.00	0.00
10,900.0	90.28	180.21	6,968.2	-2,108.70	-3,819.0	-1,167.6	3,958.9	0.00	0.00	0.00
11,000.0	90.28	180.21	6,967.7	-2,108.21	-3,919.0	-1,168.0	4,057.6	0.00	0.00	0.00
11,100.0	90.28	180.21	6,967.2	-2,107.71	-4,019.0	-1,168.3	4,156.3	0.00	0.00	0.00
11,200.0	90.28	180.21	6,966.7	-2,107.22	-4,119.0	-1,168.7	4,255.0	0.00	0.00	0.00
11,300.0	90.28	180.21	6,966.2	-2,106.73	-4,219.0	-1,169.1	4,353.7	0.00	0.00	0.00
11,400.0	90.28	180.21	6,965.7	-2,106.23	-4,319.0	-1,169.5	4,452.4	0.00	0.00	0.00
11,500.0	90.28	180.21	6,965.2	-2,105.74	-4,419.0	-1,169.8	4,551.1	0.00	0.00	0.00
11,600.0	90.28	180.21	6,964.7	-2,105.24	-4,519.0	-1,170.2	4,649.8	0.00	0.00	0.00
11,700.0	90.28	180.21	6,964.3	-2,104.75	-4,619.0	-1,170.6	4,748.5	0.00	0.00	0.00
11,800.0	90.28	180.21	6,963.8	-2,104.26	-4,719.0	-1,170.9	4,847.2	0.00	0.00	0.00
11,900.0	90.28	180.21	6,963.3	-2,103.76	-4,819.0	-1,171.3	4,945.9	0.00	0.00	0.00
12,000.0	90.28	180.21	6,962.8	-2,103.27	-4,919.0	-1,171.7	5,044.6	0.00	0.00	0.00
12,100.0	90.28	180.21	6,962.3	-2,102.77	-5,019.0	-1,172.1	5,143.3	0.00	0.00	0.00
12,200.0	90.28	180.21	6,961.8	-2,102.28	-5,119.0	-1,172.4	5,242.0	0.00	0.00	0.00
12,300.0	90.28	180.21	6,961.3	-2,101.78	-5,219.0	-1,172.8	5,340.7	0.00	0.00	0.00
12,400.0	90.28	180.21	6,960.8	-2,101.29	-5,319.0	-1,173.2	5,439.4	0.00	0.00	0.00
12,500.0	90.28	180.21	6,960.3	-2,100.79	-5,419.0	-1,173.5	5,538.1	0.00	0.00	0.00
12,600.0	90.28	180.21	6,959.8	-2,100.30	-5,519.0	-1,173.9	5,636.8	0.00	0.00	0.00
12,700.0	90.28	180.21	6,959.3	-2,099.80	-5,619.0	-1,174.3	5,735.5	0.00	0.00	0.00
12,800.0	90.28	180.21	6,958.8	-2,099.31	-5,719.0	-1,174.7	5,834.2	0.00	0.00	0.00
12,900.0	90.28	180.21	6,958.3	-2,098.81	-5,819.0	-1,175.0	5,932.9	0.00	0.00	0.00
13,000.0	90.28	180.21	6,957.8	-2,098.31	-5,919.0	-1,175.4	6,031.7	0.00	0.00	0.00
13,100.0	90.28	180.21	6,957.3	-2,097.82	-6,019.0	-1,175.8	6,130.4	0.00	0.00	0.00
13,200.0	90.28	180.21	6,956.8	-2,097.32	-6,119.0	-1,176.2	6,229.1	0.00	0.00	0.00
13,300.0	90.28	180.21	6,956.3	-2,096.83	-6,219.0	-1,176.5	6,327.8	0.00	0.00	0.00
13,400.0	90.28	180.21	6,955.8	-2,096.33	-6,319.0	-1,176.9	6,426.5	0.00	0.00	0.00
13,500.0	90.28	180.21	6,955.3	-2,095.83	-6,419.0	-1,177.3	6,525.2	0.00	0.00	0.00
13,600.0	90.28	180.21	6,954.8	-2,095.34	-6,519.0	-1,177.6	6,623.9	0.00	0.00	0.00
13,700.0	90.28	180.21	6,954.3	-2,094.84	-6,619.0	-1,178.0	6,722.6	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well HONEBEIN 7G-203
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4859.5usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4859.5usft (Original Well Elev)
Site:	NE SW SEC. 7 T4N R64W 6th P.M.	North Reference:	True
Well:	HONEBEIN 7G-203	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)
13,800.0	90.28	180.21	6,953.8	-2,094.34	-6,719.0	-1,178.4	6,821.3	0.00	0.00	0.00
13,900.0	90.28	180.21	6,953.3	-2,093.84	-6,819.0	-1,178.8	6,920.0	0.00	0.00	0.00
14,000.0	90.28	180.21	6,952.8	-2,093.35	-6,919.0	-1,179.1	7,018.7	0.00	0.00	0.00
14,100.0	90.29	180.21	6,952.4	-2,092.85	-7,019.0	-1,179.5	7,117.4	0.00	0.00	0.00
BHL - HONEBEIN 7G-203 (P2)										
14,170.4	90.29	180.21	6,952.0	-2,092.50	-7,089.4	-1,179.8	7,186.9	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,798.2	3,722.5	PARKMAN		0.00	
4,548.8	4,448.5	SUSSEX		0.00	
5,365.6	5,238.5	SHANNON		0.00	
6,842.1	6,672.5	SHARON SPRINGS		0.00	
7,087.2	6,847.5	NIOBRARA A		0.00	
7,237.2	6,922.5	NIOBRARA B		0.00	

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.0	1,000.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,735.7	1,727.6	20.6	-91.7	EOB TO 14.71° INC
5,647.2	5,510.9	238.6	-1,060.9	END OF TANGENT
6,382.9	6,238.5	259.2	-1,152.6	EOD TO VERTICAL
6,412.9	6,268.5	259.2	-1,152.6	KOP (8°/100ft BUR)
7,541.4	6,984.7	-460.5	-1,155.2	7" ICP *NEW* - HONEBEIN 7G-203 (P2)
14,170.4	6,952.0	-7,089.4	-1,179.8	BHL - HONEBEIN 7G-203 (P2)