

# **PDC ENERGY**

**WELD COUNTY, COLORADO  
SW NW SEC. 6 T6N R64W 6th P.M.  
BENNETT 6F-312**

## **ORIGINAL WELLBORE**

**13 April, 2016**

**Plan: PROPOSAL #1**





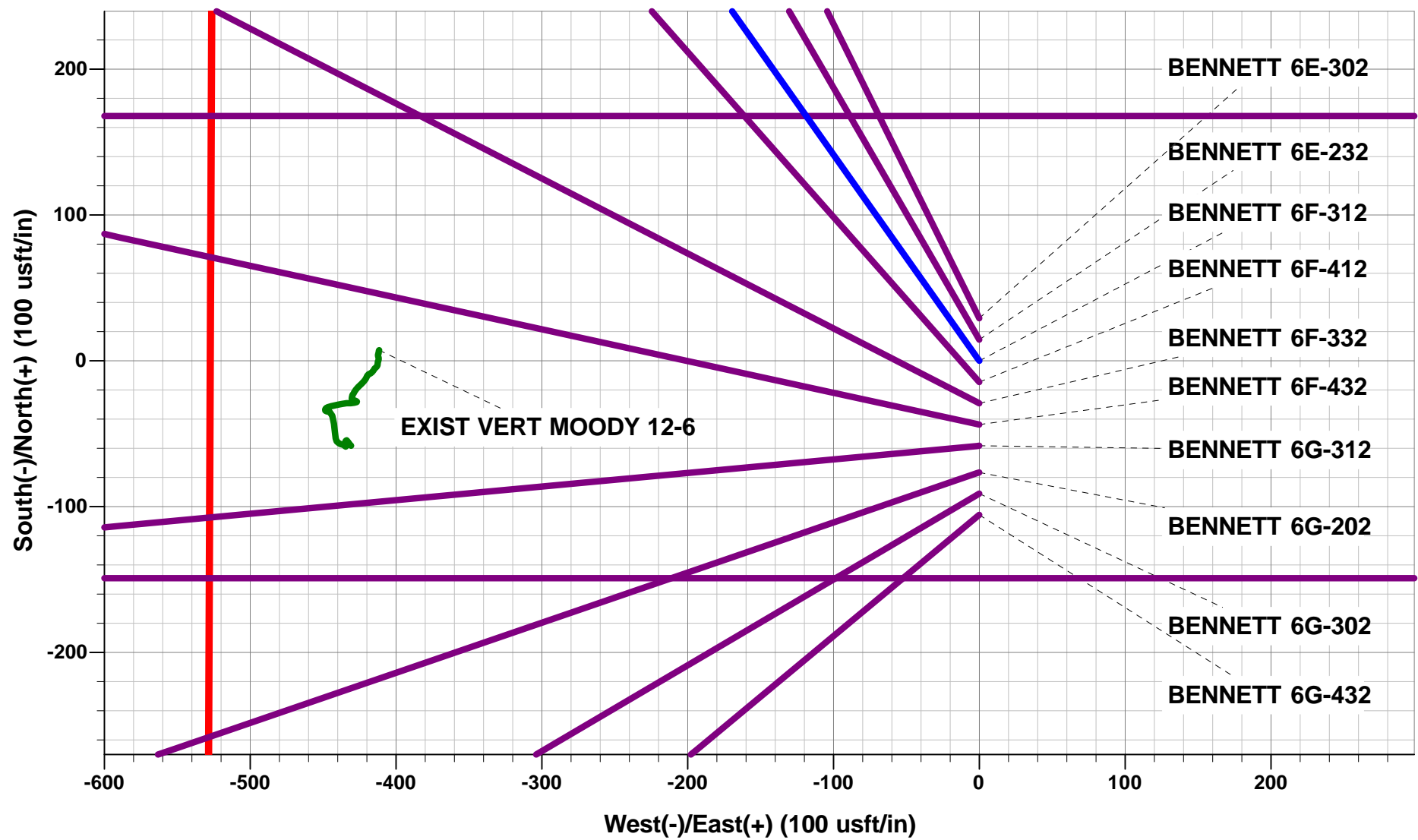
Project: WELD COUNTY, COLORADO  
Site: SW NW SEC. 6 T6N R64W 6th P.M.  
Well: BENNETT 6F-312  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 2095ft FNL & 988ft FWL of Sec 6
500.0	500.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1435.2	1452.7	19.05	324.74	128.2	-90.6	-37.8	157.0	EOB TO 19.05° INC
5371.7	5617.3	19.05	324.74	1238.3	-875.4	-365.5	1516.5	END OF TANGENT
6306.9	6570.0	0.00	0.00	1366.5	-966.0	-403.4	1673.5	EOD TO VERTICAL
6336.9	6600.0	0.00	0.00	1366.5	-966.0	-403.4	1673.5	KOP (8°/100ft BUR)
7053.0	7735.5	90.84	90.00	1366.5	-239.3	273.6	2400.2	HZ LANDING PNT *NEW*: 719.4ft FNL & 741.7ft FWL of Sec 6
6998.0	11478.3	90.84	90.00	1366.5	3503.1	3760.2	6142.6	BHL: 778ft FNL & 500ft FEL of Sec 6

WELLBORE TARGET DETAILS (LAT/LONG)

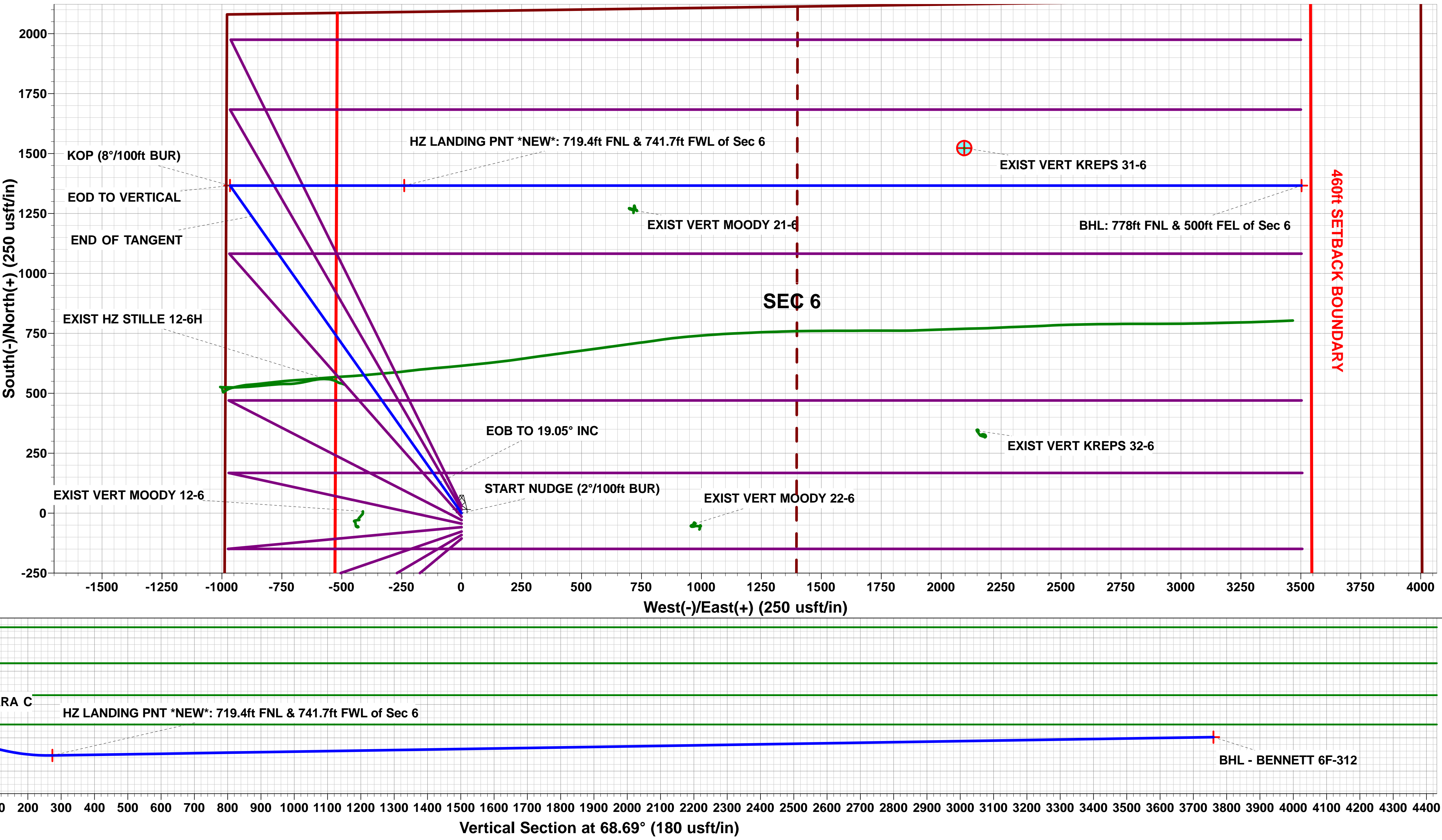
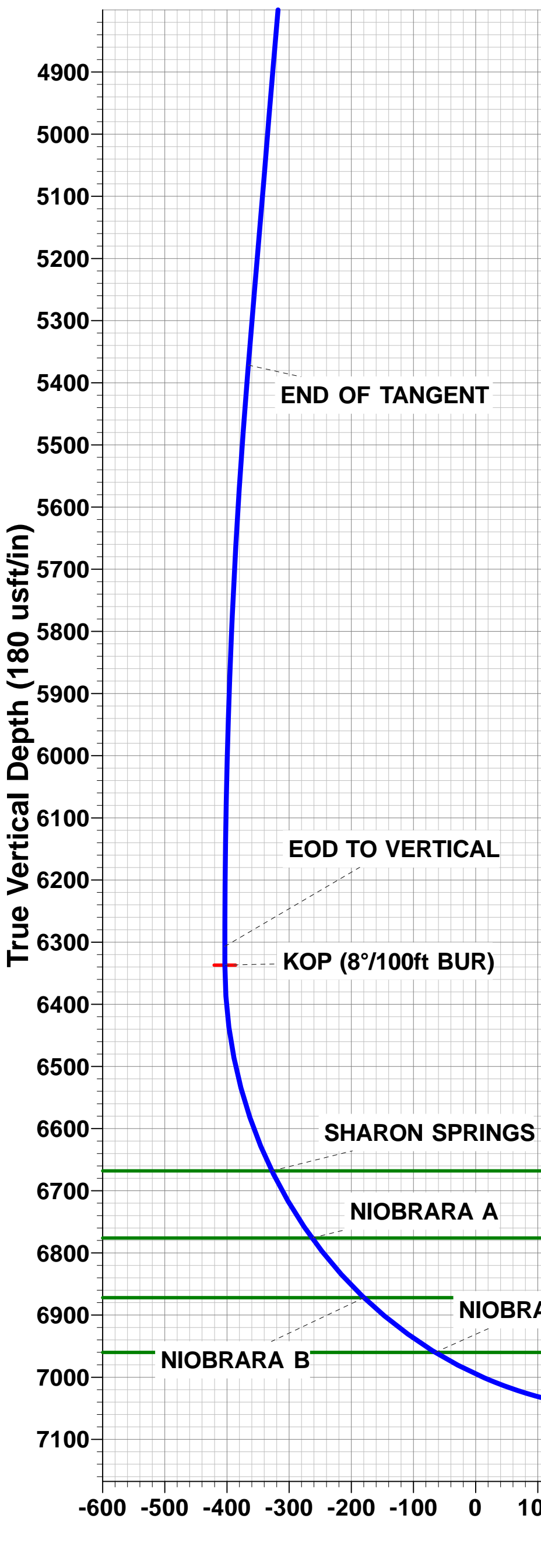
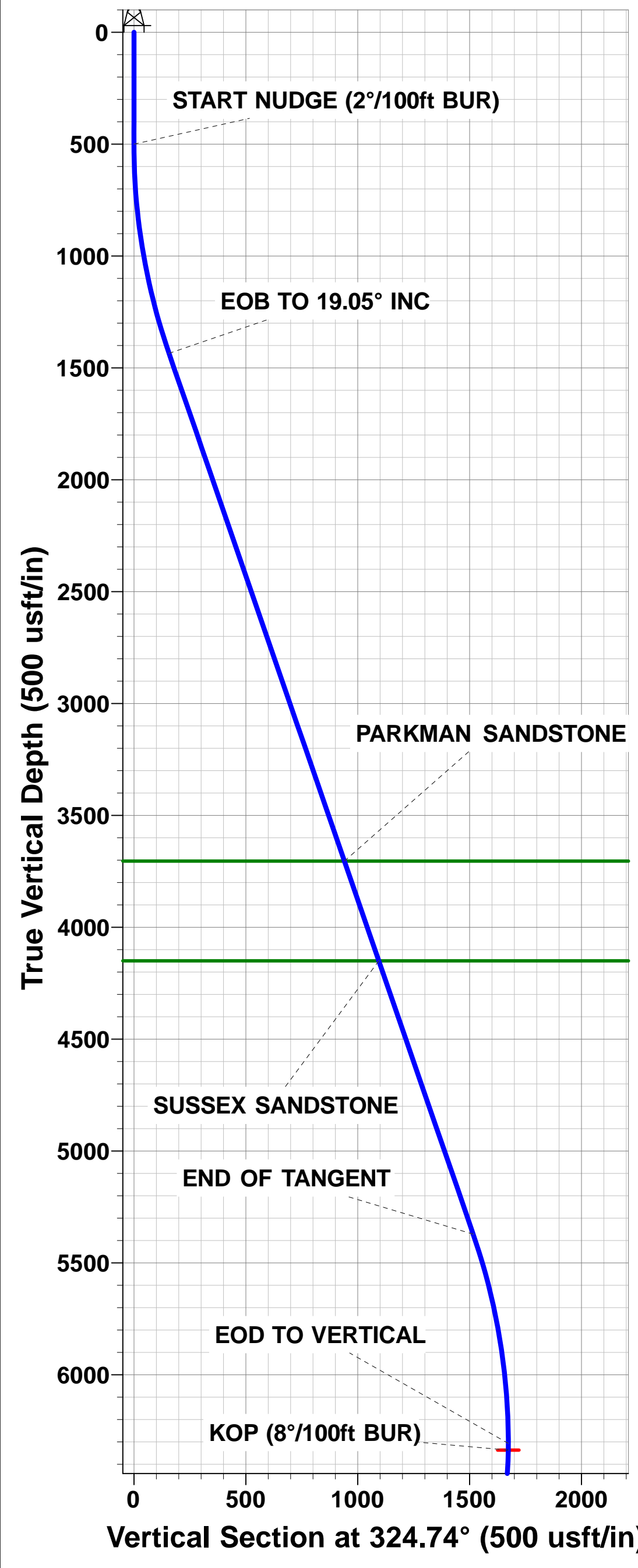
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - BENNETT 6F-312	6336.9	1366.5	-966.0	40.520141	-104.601494
BHL - BENNETT 6F-312	6998.0	1366.5	3503.1	40.520140	-104.585420
HZ LANDING PNT *NEW* - BENNETT 6F-312	7053.0	1366.5	-239.3	40.520141	-104.598881



PROPOSED LOCAL COORDINATES:  
SHL: 2095ft FNL & 988ft FWL of Sec 6  
HZ LP \*NEW\*: 719.4ft FNL & 741.7ft FWL of Sec 6  
BHL: 778ft FNL & 500ft FEL of Sec 6

Azimuths to True North  
Magnetic North: 8.26°

Magnetic Field  
Strength: 52604.8snT  
Dip Angle: 67.00°  
Date: 13/04/2016  
Model: IGRF2015



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BENNETT 6F-312
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Site:</b>	SW NW SEC. 6 T6N R64W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	BENNETT 6F-312	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

<b>Project</b>	WELD COUNTY, COLORADO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

<b>Site</b>	SW NW SEC. 6 T6N R64W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,432,131.26 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,250,776.23 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000 ft
		<b>Latitude:</b>	40.516100
		<b>Longitude:</b>	-104.598020
		<b>Grid Convergence:</b>	0.58 °

<b>Well</b>	BENNETT 6F-312		
<b>Well Position</b>	<b>+N/-S</b>	105.6 usft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>
<b>Position Uncertainty</b>	0.0 usft		<b>Wellhead Elevation:</b>
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<b>Wellbore</b>	ORIGINAL WELLBORE				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	13/04/2016	8.26	67.00	52,605

<b>Design</b>	PROPOSAL #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	6,998.0	0.0	0.0	68.69	

<b>Plan Sections</b>											
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	-4,798.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	-4,298.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,452.7	19.05	324.74	1,435.2	-3,362.8	128.2	-90.6	2.00	2.00	0.00	324.74	
5,617.3	19.05	324.74	5,371.7	573.7	1,238.3	-875.4	0.00	0.00	0.00	0.00	
6,570.0	0.00	0.00	6,306.9	1,508.9	1,366.5	-966.0	2.00	-2.00	0.00	180.00	
6,600.0	0.00	0.00	6,336.9	1,538.9	1,366.5	-966.0	0.00	0.00	0.00	0.00	KOP - BENNETT 6F
7,735.5	90.84	90.00	7,053.0	2,255.0	1,366.5	-239.3	8.00	8.00	0.00	90.00	
11,478.3	90.84	90.00	6,998.0	2,200.0	1,366.5	3,503.1	0.00	0.00	0.00	17.50	BHL - BENNETT 6F

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BENNETT 6F-312
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Site:</b>	SW NW SEC. 6 T6N R64W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	BENNETT 6F-312	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
<b>SHL: 2095ft FNL &amp; 988ft FWL of Sec 6</b>										
0.0	0.00	0.00	0.0	4,798.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,698.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,598.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,498.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,398.00	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (2°/100ft BUR)</b>										
500.0	0.00	0.00	500.0	4,298.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	2.00	324.74	600.0	4,198.02	1.4	-1.0	-0.4	2.00	2.00	0.00
700.0	4.00	324.74	699.8	4,098.16	5.7	-4.0	-1.7	2.00	2.00	0.00
800.0	6.00	324.74	799.5	3,998.55	12.8	-9.1	-3.8	2.00	2.00	0.00
900.0	8.00	324.74	898.7	3,899.30	22.8	-16.1	-6.7	2.00	2.00	0.00
1,000.0	10.00	324.74	997.5	3,800.53	35.5	-25.1	-10.5	2.00	2.00	0.00
1,100.0	12.00	324.74	1,095.6	3,702.38	51.1	-36.1	-15.1	2.00	2.00	0.00
1,200.0	14.00	324.74	1,193.1	3,604.94	69.5	-49.1	-20.5	2.00	2.00	0.00
1,300.0	16.00	324.74	1,289.6	3,508.36	90.6	-64.1	-26.7	2.00	2.00	0.00
1,400.0	18.00	324.74	1,385.3	3,412.73	114.5	-80.9	-33.8	2.00	2.00	0.00
<b>EOB TO 19.05° INC</b>										
1,452.7	19.05	324.74	1,435.2	3,362.78	128.2	-90.6	-37.8	2.00	2.00	0.00
1,500.0	19.05	324.74	1,479.9	3,318.05	140.8	-99.5	-41.6	0.00	0.00	0.00
1,600.0	19.05	324.74	1,574.5	3,223.53	167.4	-118.4	-49.4	0.00	0.00	0.00
1,700.0	19.05	324.74	1,669.0	3,129.01	194.1	-137.2	-57.3	0.00	0.00	0.00
1,800.0	19.05	324.74	1,763.5	3,034.49	220.7	-156.1	-65.2	0.00	0.00	0.00
1,900.0	19.05	324.74	1,858.0	2,939.97	247.4	-174.9	-73.0	0.00	0.00	0.00
2,000.0	19.05	324.74	1,952.6	2,845.45	274.1	-193.7	-80.9	0.00	0.00	0.00
2,100.0	19.05	324.74	2,047.1	2,750.93	300.7	-212.6	-88.8	0.00	0.00	0.00
2,200.0	19.05	324.74	2,141.6	2,656.41	327.4	-231.4	-96.6	0.00	0.00	0.00
2,300.0	19.05	324.74	2,236.1	2,561.88	354.0	-250.3	-104.5	0.00	0.00	0.00
2,400.0	19.05	324.74	2,330.6	2,467.36	380.7	-269.1	-112.4	0.00	0.00	0.00
2,500.0	19.05	324.74	2,425.2	2,372.84	407.3	-288.0	-120.2	0.00	0.00	0.00
2,600.0	19.05	324.74	2,519.7	2,278.32	434.0	-306.8	-128.1	0.00	0.00	0.00
2,700.0	19.05	324.74	2,614.2	2,183.80	460.7	-325.6	-136.0	0.00	0.00	0.00
2,800.0	19.05	324.74	2,708.7	2,089.28	487.3	-344.5	-143.9	0.00	0.00	0.00
2,900.0	19.05	324.74	2,803.2	1,994.76	514.0	-363.3	-151.7	0.00	0.00	0.00
3,000.0	19.05	324.74	2,897.8	1,900.24	540.6	-382.2	-159.6	0.00	0.00	0.00
3,100.0	19.05	324.74	2,992.3	1,805.71	567.3	-401.0	-167.5	0.00	0.00	0.00
3,200.0	19.05	324.74	3,086.8	1,711.19	593.9	-419.9	-175.3	0.00	0.00	0.00
3,300.0	19.05	324.74	3,181.3	1,616.67	620.6	-438.7	-183.2	0.00	0.00	0.00
3,400.0	19.05	324.74	3,275.9	1,522.15	647.3	-457.6	-191.1	0.00	0.00	0.00
3,500.0	19.05	324.74	3,370.4	1,427.63	673.9	-476.4	-198.9	0.00	0.00	0.00
3,600.0	19.05	324.74	3,464.9	1,333.11	700.6	-495.2	-206.8	0.00	0.00	0.00
3,700.0	19.05	324.74	3,559.4	1,238.59	727.2	-514.1	-214.7	0.00	0.00	0.00
3,800.0	19.05	324.74	3,653.9	1,144.06	753.9	-532.9	-222.5	0.00	0.00	0.00
<b>PARKMAN SANDSTONE</b>										
3,853.0	19.05	324.74	3,704.0	1,094.00	768.0	-542.9	-226.7	0.00	0.00	0.00
3,900.0	19.05	324.74	3,748.5	1,049.54	780.6	-551.8	-230.4	0.00	0.00	0.00
4,000.0	19.05	324.74	3,843.0	955.02	807.2	-570.6	-238.3	0.00	0.00	0.00
4,100.0	19.05	324.74	3,937.5	860.50	833.9	-589.5	-246.1	0.00	0.00	0.00
4,200.0	19.05	324.74	4,032.0	765.98	860.5	-608.3	-254.0	0.00	0.00	0.00
4,300.0	19.05	324.74	4,126.5	671.46	887.2	-627.2	-261.9	0.00	0.00	0.00
<b>SUSSEX SANDSTONE</b>										
4,324.8	19.05	324.74	4,150.0	648.00	893.8	-631.8	-263.8	0.00	0.00	0.00
4,400.0	19.05	324.74	4,221.1	576.94	913.8	-646.0	-269.8	0.00	0.00	0.00
4,500.0	19.05	324.74	4,315.6	482.42	940.5	-664.8	-277.6	0.00	0.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BENNETT 6F-312
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Site:</b>	SW NW SEC. 6 T6N R64W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	BENNETT 6F-312	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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	19.05	324.74	4,410.1	387.89	967.2	-683.7	-285.5	0.00	0.00	0.00
4,700.0	19.05	324.74	4,504.6	293.37	993.8	-702.5	-293.4	0.00	0.00	0.00
4,800.0	19.05	324.74	4,599.1	198.85	1,020.5	-721.4	-301.2	0.00	0.00	0.00
4,900.0	19.05	324.74	4,693.7	104.33	1,047.1	-740.2	-309.1	0.00	0.00	0.00
5,000.0	19.05	324.74	4,788.2	9.81	1,073.8	-759.1	-317.0	0.00	0.00	0.00
5,100.0	19.05	324.74	4,882.7	-84.71	1,100.4	-777.9	-324.8	0.00	0.00	0.00
5,200.0	19.05	324.74	4,977.2	-179.23	1,127.1	-796.8	-332.7	0.00	0.00	0.00
5,300.0	19.05	324.74	5,071.8	-273.76	1,153.8	-815.6	-340.6	0.00	0.00	0.00
5,400.0	19.05	324.74	5,166.3	-368.28	1,180.4	-834.4	-348.4	0.00	0.00	0.00
5,500.0	19.05	324.74	5,260.8	-462.80	1,207.1	-853.3	-356.3	0.00	0.00	0.00
5,600.0	19.05	324.74	5,355.3	-557.32	1,233.7	-872.1	-364.2	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>5,617.3</b>	<b>19.05</b>	<b>324.74</b>	<b>5,371.7</b>	<b>-573.68</b>	<b>1,238.3</b>	<b>-875.4</b>	<b>-365.5</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5,700.0	17.40	324.74	5,450.2	-652.22	1,259.5	-890.3	-371.8	2.00	-2.00	0.00
5,800.0	15.40	324.74	5,546.1	-748.15	1,282.5	-906.6	-378.6	2.00	-2.00	0.00
5,900.0	13.40	324.74	5,643.0	-845.00	1,302.8	-921.0	-384.6	2.00	-2.00	0.00
6,000.0	11.40	324.74	5,740.7	-942.66	1,320.3	-933.4	-389.7	2.00	-2.00	0.00
6,100.0	9.40	324.74	5,839.0	-1,041.01	1,335.1	-943.8	-394.1	2.00	-2.00	0.00
6,200.0	7.40	324.74	5,937.9	-1,139.94	1,347.0	-952.2	-397.6	2.00	-2.00	0.00
6,300.0	5.40	324.74	6,037.3	-1,239.31	1,356.1	-958.7	-400.3	2.00	-2.00	0.00
6,400.0	3.40	324.74	6,137.0	-1,339.01	1,362.4	-963.1	-402.2	2.00	-2.00	0.00
6,500.0	1.40	324.74	6,236.9	-1,438.92	1,365.8	-965.5	-403.2	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
<b>6,570.0</b>	<b>0.00</b>	<b>0.00</b>	<b>6,306.9</b>	<b>-1,508.90</b>	<b>1,366.5</b>	<b>-966.0</b>	<b>-403.4</b>	<b>2.00</b>	<b>-2.00</b>	<b>0.00</b>
<b>KOP (8°/100ft BUR)</b>										
<b>6,600.0</b>	<b>0.00</b>	<b>0.00</b>	<b>6,336.9</b>	<b>-1,538.90</b>	<b>1,366.5</b>	<b>-966.0</b>	<b>-403.4</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,700.0	8.00	90.00	6,436.6	-1,638.58	1,366.5	-959.0	-396.9	8.00	8.00	0.00
6,800.0	16.00	90.00	6,534.3	-1,736.32	1,366.5	-938.3	-377.5	8.00	8.00	0.00
6,900.0	24.00	90.00	6,628.2	-1,830.21	1,366.5	-904.1	-345.7	8.00	8.00	0.00
<b>SHARON SPRINGS</b>										
<b>6,944.2</b>	<b>27.54</b>	<b>90.00</b>	<b>6,668.0</b>	<b>-1,870.00</b>	<b>1,366.5</b>	<b>-884.9</b>	<b>-327.8</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,000.0	32.00	90.00	6,716.4	-1,918.43	1,366.5	-857.2	-302.0	8.00	8.00	0.00
<b>NIOBRARA A</b>										
<b>7,072.7</b>	<b>37.81</b>	<b>90.00</b>	<b>6,776.0</b>	<b>-1,978.00</b>	<b>1,366.5</b>	<b>-815.6</b>	<b>-263.3</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,100.0	40.00	90.00	6,797.3	-1,999.27	1,366.5	-798.4	-247.3	8.00	8.00	0.00
7,200.0	48.00	90.00	6,869.1	-2,071.14	1,366.5	-729.0	-182.6	8.00	8.00	0.00
<b>NIOBRARA B</b>										
<b>7,204.3</b>	<b>48.34</b>	<b>90.00</b>	<b>6,872.0</b>	<b>-2,074.00</b>	<b>1,366.5</b>	<b>-725.8</b>	<b>-179.6</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,300.0	56.00	90.00	6,930.7	-2,132.66	1,366.5	-650.3	-109.2	8.00	8.00	0.00
<b>NIOBRARA C</b>										
<b>7,355.7</b>	<b>60.46</b>	<b>90.00</b>	<b>6,960.0</b>	<b>-2,162.00</b>	<b>1,366.5</b>	<b>-602.9</b>	<b>-65.1</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,400.0	64.00	90.00	6,980.6	-2,182.62	1,366.5	-563.8	-28.6	8.00	8.00	0.00
7,500.0	72.00	90.00	7,018.0	-2,220.05	1,366.5	-471.1	57.7	8.00	8.00	0.00
7,600.0	80.00	90.00	7,042.2	-2,244.22	1,366.5	-374.2	148.0	8.00	8.00	0.00
7,700.0	88.00	90.00	7,052.7	-2,254.66	1,366.5	-274.8	240.6	8.00	8.00	0.00
<b>HZ LANDING PNT *NEW*: 719.4ft FNL &amp; 741.7ft FWL of Sec 6</b>										
<b>7,735.5</b>	<b>90.84</b>	<b>90.00</b>	<b>7,053.0</b>	<b>-2,255.02</b>	<b>1,366.5</b>	<b>-239.3</b>	<b>273.6</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,800.0	90.84	90.00	7,052.1	-2,254.07	1,366.5	-174.8	333.7	0.00	0.00	0.00
7,900.0	90.84	90.00	7,050.6	-2,252.61	1,366.5	-74.8	426.9	0.00	0.00	0.00
8,000.0	90.84	90.00	7,049.1	-2,251.14	1,366.5	25.2	520.0	0.00	0.00	0.00
8,100.0	90.84	90.00	7,047.7	-2,249.68	1,366.5	125.2	613.2	0.00	0.00	0.00
8,200.0	90.84	90.00	7,046.2	-2,248.21	1,366.5	225.2	706.3	0.00	0.00	0.00
8,300.0	90.84	90.00	7,044.7	-2,246.74	1,366.5	325.1	799.5	0.00	0.00	0.00



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BENNETT 6F-312
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Site:</b>	SW NW SEC. 6 T6N R64W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	BENNETT 6F-312	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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	90.84	90.00	7,043.3	-2,245.27	1,366.5	425.1	892.7	0.00	0.00	0.00
8,500.0	90.84	90.00	7,041.8	-2,243.81	1,366.5	525.1	985.8	0.00	0.00	0.00
8,600.0	90.84	90.00	7,040.3	-2,242.34	1,366.5	625.1	1,079.0	0.00	0.00	0.00
8,700.0	90.84	90.00	7,038.9	-2,240.87	1,366.5	725.1	1,172.1	0.00	0.00	0.00
8,800.0	90.84	90.00	7,037.4	-2,239.40	1,366.5	825.1	1,265.3	0.00	0.00	0.00
8,900.0	90.84	90.00	7,035.9	-2,237.93	1,366.5	925.1	1,358.4	0.00	0.00	0.00
9,000.0	90.84	90.00	7,034.5	-2,236.47	1,366.5	1,025.1	1,451.6	0.00	0.00	0.00
9,100.0	90.84	90.00	7,033.0	-2,235.00	1,366.5	1,125.1	1,544.7	0.00	0.00	0.00
9,200.0	90.84	90.00	7,031.5	-2,233.53	1,366.5	1,225.0	1,637.9	0.00	0.00	0.00
9,300.0	90.84	90.00	7,030.1	-2,232.06	1,366.5	1,325.0	1,731.0	0.00	0.00	0.00
9,400.0	90.84	90.00	7,028.6	-2,230.59	1,366.5	1,425.0	1,824.2	0.00	0.00	0.00
9,500.0	90.84	90.00	7,027.1	-2,229.12	1,366.5	1,525.0	1,917.3	0.00	0.00	0.00
9,600.0	90.84	90.00	7,025.6	-2,227.65	1,366.5	1,625.0	2,010.5	0.00	0.00	0.00
9,700.0	90.84	90.00	7,024.2	-2,226.18	1,366.5	1,725.0	2,103.6	0.00	0.00	0.00
9,800.0	90.84	90.00	7,022.7	-2,224.71	1,366.5	1,825.0	2,196.8	0.00	0.00	0.00
9,900.0	90.84	90.00	7,021.2	-2,223.24	1,366.5	1,925.0	2,289.9	0.00	0.00	0.00
10,000.0	90.84	90.00	7,019.8	-2,221.77	1,366.5	2,025.0	2,383.1	0.00	0.00	0.00
10,100.0	90.84	90.00	7,018.3	-2,220.30	1,366.5	2,125.0	2,476.3	0.00	0.00	0.00
10,200.0	90.84	90.00	7,016.8	-2,218.83	1,366.5	2,224.9	2,569.4	0.00	0.00	0.00
10,300.0	90.84	90.00	7,015.4	-2,217.35	1,366.5	2,324.9	2,662.6	0.00	0.00	0.00
10,400.0	90.84	90.00	7,013.9	-2,215.88	1,366.5	2,424.9	2,755.7	0.00	0.00	0.00
10,500.0	90.84	90.00	7,012.4	-2,214.41	1,366.5	2,524.9	2,848.9	0.00	0.00	0.00
10,600.0	90.84	90.00	7,010.9	-2,212.94	1,366.5	2,624.9	2,942.0	0.00	0.00	0.00
10,700.0	90.84	90.00	7,009.5	-2,211.47	1,366.5	2,724.9	3,035.2	0.00	0.00	0.00
10,800.0	90.84	90.00	7,008.0	-2,209.99	1,366.5	2,824.9	3,128.3	0.00	0.00	0.00
10,900.0	90.84	90.00	7,006.5	-2,208.52	1,366.5	2,924.9	3,221.5	0.00	0.00	0.00
11,000.0	90.84	90.00	7,005.0	-2,207.05	1,366.5	3,024.9	3,314.6	0.00	0.00	0.00
11,100.0	90.84	90.00	7,003.6	-2,205.58	1,366.5	3,124.8	3,407.8	0.00	0.00	0.00
11,200.0	90.84	90.00	7,002.1	-2,204.10	1,366.5	3,224.8	3,500.9	0.00	0.00	0.00
11,300.0	90.84	90.00	7,000.6	-2,202.63	1,366.5	3,324.8	3,594.1	0.00	0.00	0.00
11,400.0	90.84	90.00	6,999.2	-2,201.15	1,366.5	3,424.8	3,687.2	0.00	0.00	0.00
<b>BHL: 778ft FNL &amp; 500ft FEL of Sec 6</b>										
<b>11,478.3</b>	<b>90.84</b>	<b>90.00</b>	<b>6,998.0</b>	<b>-2,200.00</b>	<b>1,366.5</b>	<b>3,503.1</b>	<b>3,760.2</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,853.0	3,704.0	PARKMAN SANDSTONE			
4,324.8	4,150.0	SUSSEX SANDSTONE			
6,944.2	6,668.0	SHARON SPRINGS			
7,072.7	6,776.0	NIOBRARA A			
7,204.3	6,872.0	NIOBRARA B			
7,355.7	6,960.0	NIOBRARA C			



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BENNETT 6F-312
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4798.0usft (Original Well Elev)
<b>Site:</b>	SW NW SEC. 6 T6N R64W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	BENNETT 6F-312	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.0	0.0	0.0	0.0	SHL: 2095ft FNL & 988ft FWL of Sec 6
500.0	500.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,452.7	1,435.2	128.2	-90.6	EOB TO 19.05° INC
5,617.3	5,371.7	1,238.3	-875.4	END OF TANGENT
6,570.0	6,306.9	1,366.5	-966.0	EOD TO VERTICAL
6,600.0	6,336.9	1,366.5	-966.0	KOP (8°/100ft BUR)
7,735.5	7,053.0	1,366.5	-239.3	HZ LANDING PNT *NEW*: 719.4ft FNL & 741.7ft FWL of Sec 6
11,478.3	6,998.0	1,366.5	3,503.1	BHL: 778ft FNL & 500ft FEL of Sec 6