

# **PDC ENERGY**

**WELD COUNTY, COLORADO**

**SW SW SEC. 28 T5N R67W 6th P.M.**

**KINZER 28I-202**

**ORIGINAL WELLBORE**

**24 March, 2016**

**Plan: PROPOSAL #1**





Project: WELD COUNTY, COLORADO  
Site: SW SW SEC. 28 T5N R67W 6th P.M.  
Well: KINZER 28I-202  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

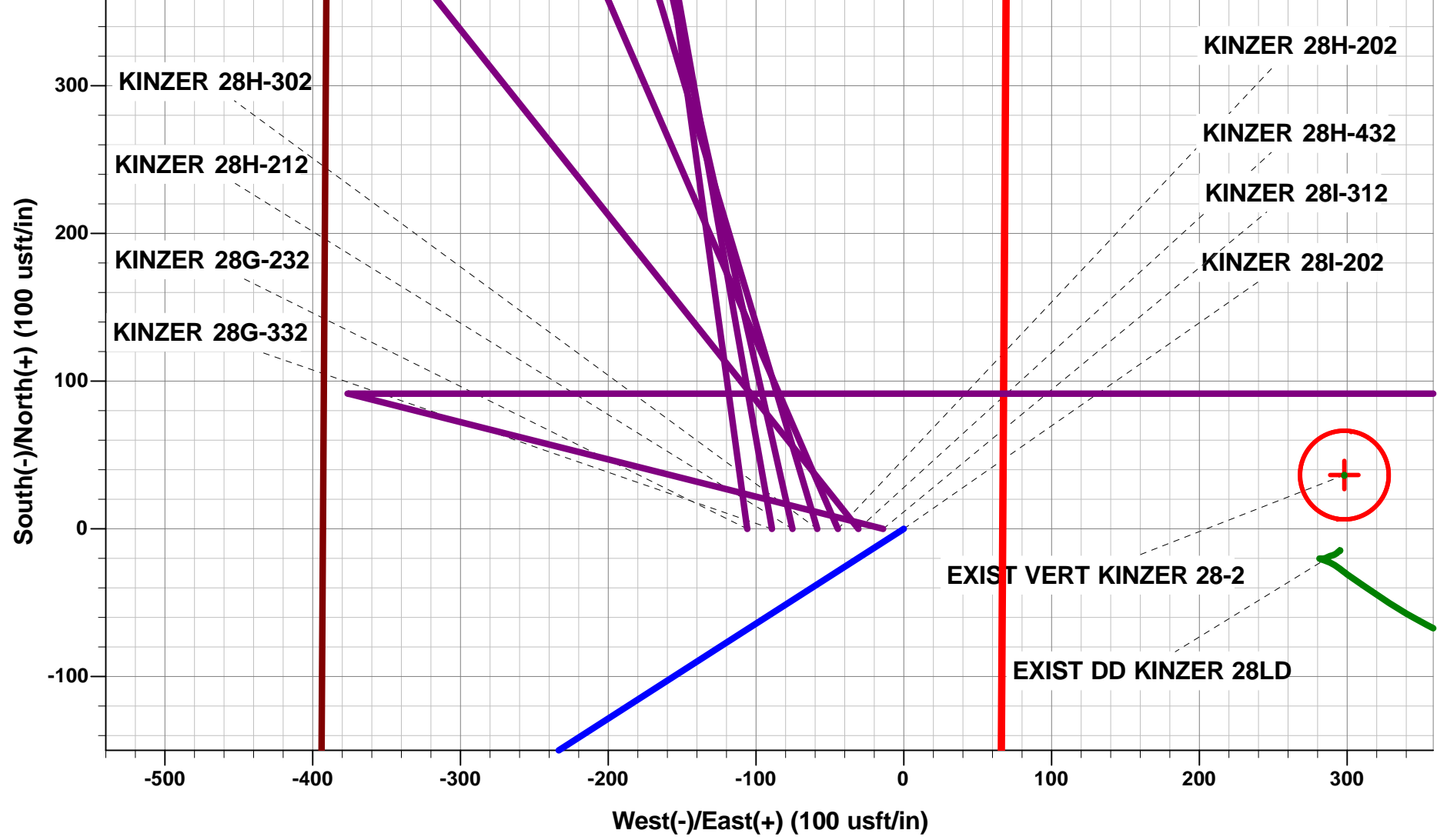


ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Dep	Annotation
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 430ft FSL & 393ft FWL of Sec 28
1000.0	1000.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1499.9	1502.5	10.05	237.28	-23.8	-37.0	-35.8	44.0	EOB TO 10.05° INC
3546.3	3580.8	10.05	237.28	-219.8	-342.1	-330.9	406.7	END OF TANGENT
4046.3	4083.3	0.00	237.28	-243.6	-379.1	-366.7	450.6	EOD TO VERTICAL
6065.8	6102.8	0.00	0.00	-243.6	-379.1	-366.7	450.6	KOP (8°/100ft BUR)
6782.0	7232.6	90.38	90.00	-243.6	341.9	353.4	1171.6	HZ LP *NEW*: 184.6ft FSL & 735.9ft FWL of Sec 28
6751.0	11837.2	90.39	90.00	-243.6	4946.4	4952.3	5776.1	BHL: 195ft FSL & 75ft FEL of Sec 28

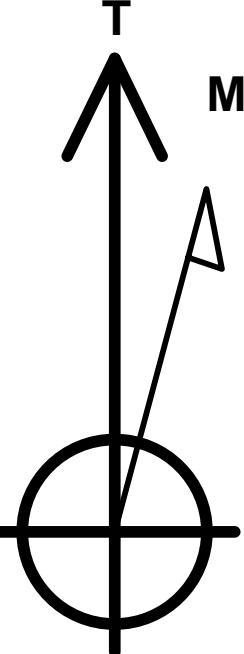
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - KINZER 28I-202	6065.8	-243.6	-379.1	40.363941	-104.907550
BHL - KINZER 28I-202	6751.0	-243.6	4946.4	40.363940	-104.888440
HZ LANDING PNT *NEW* - KINZER 28I-202	6782.0	-243.6	341.8	40.363941	-104.904963



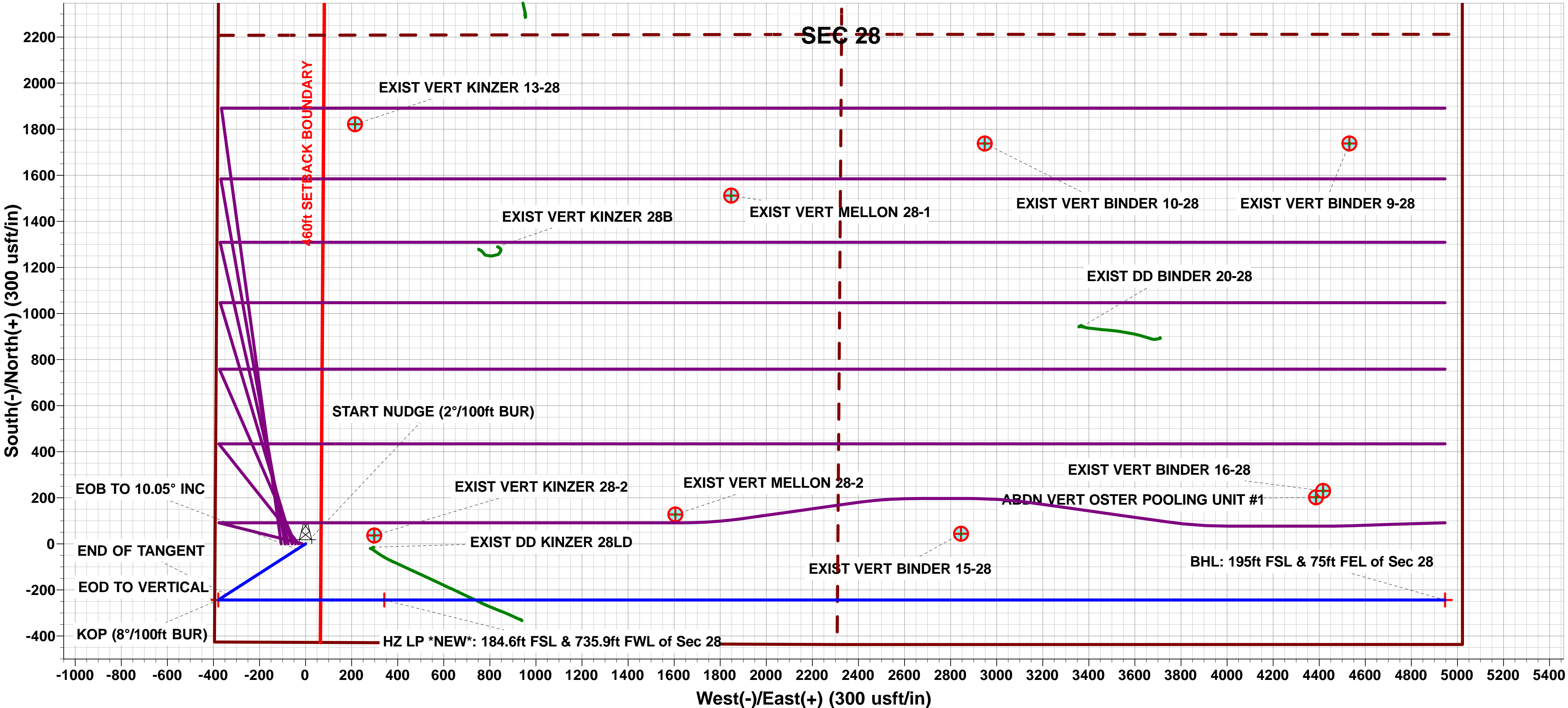
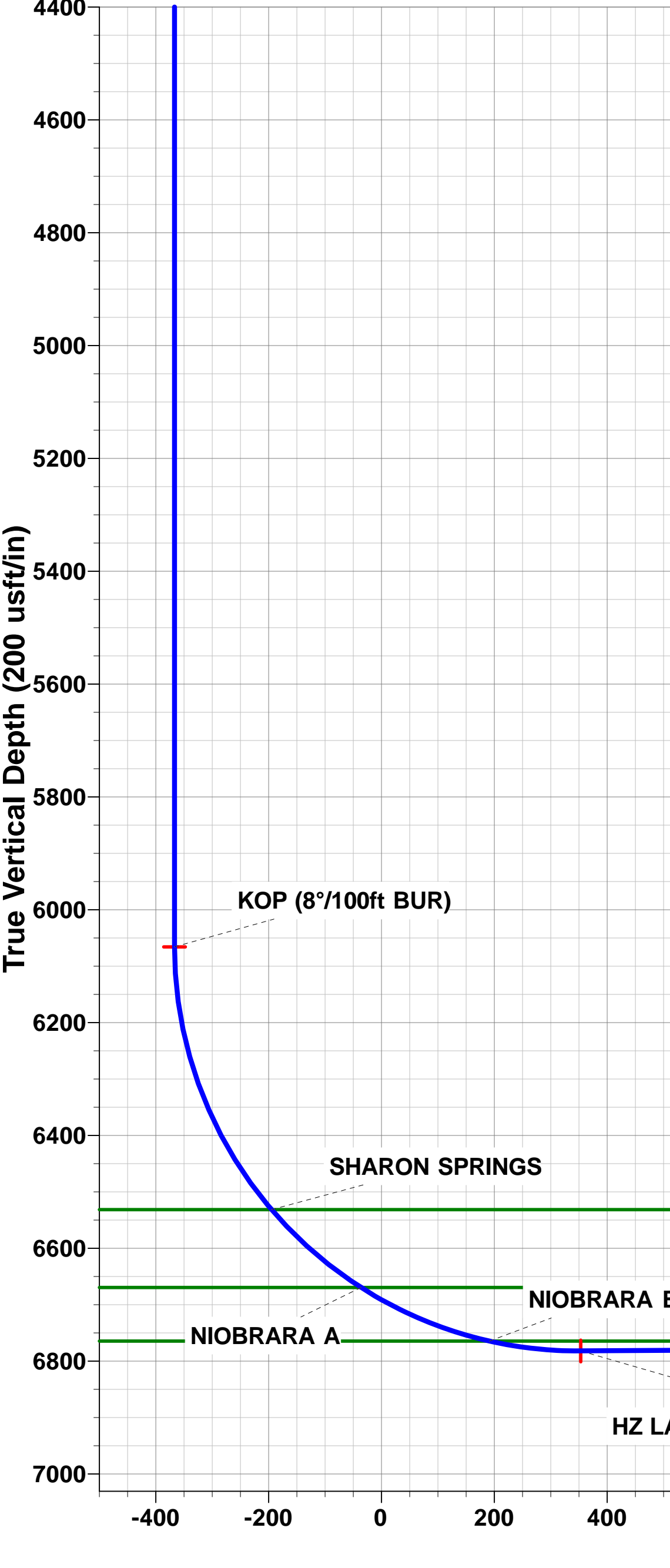
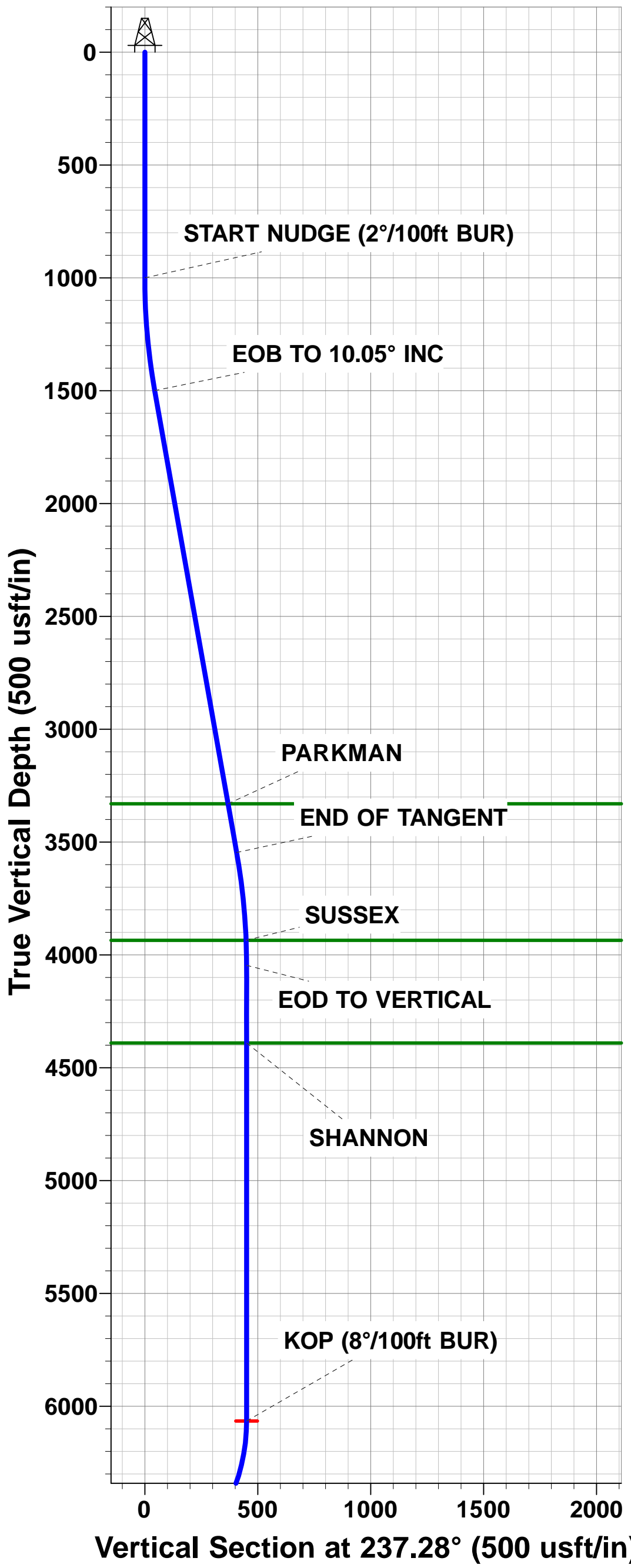
PROPOSED LOCAL COORDINATES:

SHL: 430ft FSL & 393ft FWL of Sec 28  
HZ LP \*NEW\*: 184.6ft FSL & 735.9ft FWL of Sec 28  
BHL: 195ft FSL & 75ft FEL of Sec 28



Azimuths to True North  
Magnetic North: 8.41°

Magnetic Field  
Strength: 52500.0snT  
Dip Angle: 66.83°  
Date: 23/03/2016  
Model: IGRF2015



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well KINZER 28I-202
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4797.5usft
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4797.5usft
<b>Site:</b>	SW SW SEC. 28 T5N R67W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	KINZER 28I-202	<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 SW SEC. 28 T5N R67W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,376,222.00 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,165,467.33 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000 ft
		<b>Latitude:</b>	40.364610
		<b>Longitude:</b>	-104.906190
		<b>Grid Convergence:</b>	0.38 °

<b>Well</b>	KINZER 28I-202		
<b>Well Position</b>	<b>+N-S</b>	0.0 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>	usft
		<b>Latitude:</b>	40.364610
		<b>Longitude:</b>	-104.906190
		<b>Ground Level:</b>	4,784.0 usft

<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	23/03/2016	8.41	66.83	52,500

<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>
	0.0	0.0	0.0	92.82

<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	-4,797.5	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	-3,797.5	0.0	0.0	0.00	0.00	0.00	0.00	
1,502.5	10.05	237.28	1,500.0	-3,297.5	-23.8	-37.0	2.00	2.00	0.00	237.28	
3,580.8	10.05	237.28	3,546.3	-1,251.2	-219.8	-342.1	0.00	0.00	0.00	0.00	
4,083.3	0.00	0.00	4,046.3	-751.2	-243.6	-379.1	2.00	-2.00	0.00	180.00	
6,102.8	0.00	0.00	6,065.8	1,268.3	-243.6	-379.1	0.00	0.00	0.00	0.00	KOP - KINZER 28I-
7,232.6	90.38	90.00	6,782.0	1,984.5	-243.6	341.8	8.00	8.00	0.00	90.00	
11,837.2	90.39	90.00	6,751.0	1,953.5	-243.6	4,946.4	0.00	0.00	0.00	-1.03	BHL - KINZER 28I-

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well KINZER 281-202
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4797.5usft
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4797.5usft
<b>Site:</b>	SW SW SEC. 28 T5N R67W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	KINZER 281-202	<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: 430ft FSL &amp; 393ft FWL of Sec 28</b>										
0.0	0.00	0.00	0.0	4,797.50	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,697.50	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,597.50	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,497.50	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,397.50	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,297.50	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,197.50	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,097.50	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,997.50	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,897.50	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (2°/100ft BUR)</b>										
1,000.0	0.00	0.00	1,000.0	3,797.50	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	2.00	237.28	1,100.0	3,697.52	-0.9	-1.5	-1.4	2.00	2.00	0.00
1,200.0	4.00	237.28	1,199.8	3,597.66	-3.8	-5.9	-5.7	2.00	2.00	0.00
1,300.0	6.00	237.28	1,299.5	3,498.05	-8.5	-13.2	-12.8	2.00	2.00	0.00
1,400.0	8.00	237.28	1,398.7	3,398.80	-15.1	-23.5	-22.7	2.00	2.00	0.00
1,500.0	10.00	237.28	1,497.5	3,300.03	-23.5	-36.6	-35.4	2.00	2.00	0.00
<b>EOB TO 10.05° INC</b>										
1,502.5	10.05	237.28	1,499.9	3,297.57	-23.8	-37.0	-35.8	2.00	2.00	0.00
1,600.0	10.05	237.28	1,595.9	3,201.57	-33.0	-51.3	-49.6	0.00	0.00	0.00
1,700.0	10.05	237.28	1,694.4	3,103.10	-42.4	-66.0	-63.8	0.00	0.00	0.00
1,800.0	10.05	237.28	1,792.9	3,004.64	-51.8	-80.7	-78.0	0.00	0.00	0.00
1,900.0	10.05	237.28	1,891.3	2,906.17	-61.3	-95.3	-92.2	0.00	0.00	0.00
2,000.0	10.05	237.28	1,989.8	2,807.71	-70.7	-110.0	-106.4	0.00	0.00	0.00
2,100.0	10.05	237.28	2,088.3	2,709.24	-80.1	-124.7	-120.6	0.00	0.00	0.00
2,200.0	10.05	237.28	2,186.7	2,610.78	-89.6	-139.4	-134.8	0.00	0.00	0.00
2,300.0	10.05	237.28	2,285.2	2,512.31	-99.0	-154.1	-149.0	0.00	0.00	0.00
2,400.0	10.05	237.28	2,383.7	2,413.85	-108.4	-168.8	-163.2	0.00	0.00	0.00
2,500.0	10.05	237.28	2,482.1	2,315.38	-117.9	-183.4	-177.4	0.00	0.00	0.00
2,600.0	10.05	237.28	2,580.6	2,216.91	-127.3	-198.1	-191.6	0.00	0.00	0.00
2,700.0	10.05	237.28	2,679.1	2,118.45	-136.7	-212.8	-205.8	0.00	0.00	0.00
2,800.0	10.05	237.28	2,777.5	2,019.98	-146.2	-227.5	-220.0	0.00	0.00	0.00
2,900.0	10.05	237.28	2,876.0	1,921.52	-155.6	-242.2	-234.2	0.00	0.00	0.00
3,000.0	10.05	237.28	2,974.4	1,823.05	-165.0	-256.8	-248.4	0.00	0.00	0.00
3,100.0	10.05	237.28	3,072.9	1,724.59	-174.5	-271.5	-262.6	0.00	0.00	0.00
3,200.0	10.05	237.28	3,171.4	1,626.12	-183.9	-286.2	-276.8	0.00	0.00	0.00
3,300.0	10.05	237.28	3,269.8	1,527.66	-193.3	-300.9	-291.0	0.00	0.00	0.00
<b>PARKMAN</b>										
3,361.6	10.05	237.28	3,330.5	1,467.00	-199.2	-309.9	-299.8	0.00	0.00	0.00
3,400.0	10.05	237.28	3,368.3	1,429.19	-202.8	-315.6	-305.2	0.00	0.00	0.00
3,500.0	10.05	237.28	3,466.8	1,330.73	-212.2	-330.3	-319.4	0.00	0.00	0.00
<b>END OF TANGENT</b>										
3,580.8	10.05	237.28	3,546.3	1,251.17	-219.8	-342.1	-330.9	0.00	0.00	0.00
3,600.0	9.67	237.28	3,565.3	1,232.25	-221.6	-344.9	-333.6	2.00	-2.00	0.00
3,700.0	7.67	237.28	3,664.1	1,133.40	-229.8	-357.6	-345.8	2.00	-2.00	0.00
3,800.0	5.67	237.28	3,763.4	1,034.08	-236.0	-367.3	-355.3	2.00	-2.00	0.00
3,900.0	3.67	237.28	3,863.1	934.41	-240.4	-374.2	-361.9	2.00	-2.00	0.00
<b>SUSSEX</b>										
3,972.5	2.22	237.28	3,935.5	862.00	-242.4	-377.3	-364.9	2.00	-2.00	0.00
4,000.0	1.67	237.28	3,963.0	834.53	-242.9	-378.1	-365.7	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
4,083.3	0.00	237.28	4,046.3	751.24	-243.6	-379.1	-366.7	2.00	-2.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well KINZER 28I-202
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4797.5usft
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4797.5usft
<b>Site:</b>	SW SW SEC. 28 T5N R67W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	KINZER 28I-202	<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)
4,100.0	0.00	0.00	4,063.0	734.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
4,200.0	0.00	0.00	4,163.0	634.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
4,300.0	0.00	0.00	4,263.0	534.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
4,400.0	0.00	0.00	4,363.0	434.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
<b>SHANNON</b>										
<b>4,427.5</b>	<b>0.00</b>	<b>0.00</b>	<b>4,390.5</b>	<b>407.00</b>	<b>-243.6</b>	<b>-379.1</b>	<b>-366.7</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
4,500.0	0.00	0.00	4,463.0	334.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,563.0	234.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,663.0	134.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,763.0	34.54	-243.6	-379.1	-366.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,863.0	-65.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,963.0	-165.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,100.0	0.00	0.00	5,063.0	-265.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,163.0	-365.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,263.0	-465.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,363.0	-565.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,463.0	-665.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,563.0	-765.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,663.0	-865.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,763.0	-965.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,863.0	-1,065.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,963.0	-1,165.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,063.0	-1,265.46	-243.6	-379.1	-366.7	0.00	0.00	0.00
<b>KOP (8°/100ft BUR)</b>										
<b>6,102.8</b>	<b>0.00</b>	<b>0.00</b>	<b>6,065.8</b>	<b>-1,268.26</b>	<b>-243.6</b>	<b>-379.1</b>	<b>-366.7</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,200.0	7.77	90.00	6,162.7	-1,365.16	-243.6	-372.5	-360.1	8.00	8.00	0.00
6,300.0	15.77	90.00	6,260.5	-1,462.98	-243.6	-352.1	-339.7	8.00	8.00	0.00
6,400.0	23.77	90.00	6,354.5	-1,557.01	-243.6	-318.3	-306.0	8.00	8.00	0.00
6,500.0	31.77	90.00	6,442.9	-1,645.42	-243.6	-271.8	-259.5	8.00	8.00	0.00
6,600.0	39.77	90.00	6,524.0	-1,726.48	-243.6	-213.4	-201.1	8.00	8.00	0.00
<b>SHARON SPRINGS</b>										
<b>6,609.8</b>	<b>40.56</b>	<b>90.00</b>	<b>6,531.5</b>	<b>-1,734.00</b>	<b>-243.6</b>	<b>-207.0</b>	<b>-194.8</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
6,700.0	47.77	90.00	6,596.1	-1,798.63	-243.6	-144.2	-132.1	8.00	8.00	0.00
6,800.0	55.77	90.00	6,658.0	-1,860.46	-243.6	-65.7	-53.7	8.00	8.00	0.00
<b>NIOBRARA A</b>										
<b>6,821.0</b>	<b>57.45</b>	<b>90.00</b>	<b>6,669.5</b>	<b>-1,872.00</b>	<b>-243.6</b>	<b>-48.2</b>	<b>-36.2</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
6,900.0	63.77	90.00	6,708.3	-1,910.76	-243.6	20.6	32.5	8.00	8.00	0.00
7,000.0	71.77	90.00	6,746.1	-1,948.56	-243.6	113.1	124.9	8.00	8.00	0.00
<b>NIOBRARA B</b>										
<b>7,069.2</b>	<b>77.31</b>	<b>90.00</b>	<b>6,764.5</b>	<b>-1,967.00</b>	<b>-243.6</b>	<b>179.8</b>	<b>191.5</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,100.0	79.77	90.00	6,770.6	-1,973.12	-243.6	209.9	221.7	8.00	8.00	0.00
7,200.0	87.77	90.00	6,781.5	-1,983.96	-243.6	309.3	320.9	8.00	8.00	0.00
<b>HZ LP *NEW*: 184.6ft FSL &amp; 735.9ft FWL of Sec 28</b>										
<b>7,232.6</b>	<b>90.38</b>	<b>90.00</b>	<b>6,782.0</b>	<b>-1,984.48</b>	<b>-243.6</b>	<b>341.9</b>	<b>353.4</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,300.0	90.38	90.00	6,781.5	-1,984.03	-243.6	409.3	420.7	0.00	0.00	0.00
7,400.0	90.38	90.00	6,780.9	-1,983.37	-243.6	509.3	520.6	0.00	0.00	0.00
7,500.0	90.38	90.00	6,780.2	-1,982.71	-243.6	609.3	620.5	0.00	0.00	0.00
7,600.0	90.38	90.00	6,779.5	-1,982.04	-243.6	709.2	720.4	0.00	0.00	0.00
7,700.0	90.38	90.00	6,778.9	-1,981.38	-243.6	809.2	820.3	0.00	0.00	0.00
7,800.0	90.38	90.00	6,778.2	-1,980.71	-243.6	909.2	920.1	0.00	0.00	0.00
7,900.0	90.38	90.00	6,777.5	-1,980.05	-243.6	1,009.2	1,020.0	0.00	0.00	0.00
8,000.0	90.38	90.00	6,776.9	-1,979.38	-243.6	1,109.2	1,119.9	0.00	0.00	0.00
8,100.0	90.38	90.00	6,776.2	-1,978.71	-243.6	1,209.2	1,219.8	0.00	0.00	0.00



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well KINZER 28I-202
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4797.5usft
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4797.5usft
<b>Site:</b>	SW SW SEC. 28 T5N R67W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	KINZER 28I-202	<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)
8,200.0	90.38	90.00	6,775.5	-1,978.05	-243.6	1,309.2	1,319.6	0.00	0.00	0.00
8,300.0	90.38	90.00	6,774.9	-1,977.38	-243.6	1,409.2	1,419.5	0.00	0.00	0.00
8,400.0	90.38	90.00	6,774.2	-1,976.71	-243.6	1,509.2	1,519.4	0.00	0.00	0.00
8,500.0	90.38	90.00	6,773.5	-1,976.04	-243.6	1,609.2	1,619.3	0.00	0.00	0.00
8,600.0	90.38	90.00	6,772.9	-1,975.37	-243.6	1,709.2	1,719.1	0.00	0.00	0.00
8,700.0	90.38	90.00	6,772.2	-1,974.70	-243.6	1,809.2	1,819.0	0.00	0.00	0.00
8,800.0	90.38	90.00	6,771.5	-1,974.03	-243.6	1,909.2	1,918.9	0.00	0.00	0.00
8,900.0	90.38	90.00	6,770.9	-1,973.36	-243.6	2,009.2	2,018.8	0.00	0.00	0.00
9,000.0	90.38	90.00	6,770.2	-1,972.69	-243.6	2,109.2	2,118.6	0.00	0.00	0.00
9,100.0	90.38	90.00	6,769.5	-1,972.02	-243.6	2,209.2	2,218.5	0.00	0.00	0.00
9,200.0	90.38	90.00	6,768.9	-1,971.35	-243.6	2,309.2	2,318.4	0.00	0.00	0.00
9,300.0	90.38	90.00	6,768.2	-1,970.68	-243.6	2,409.2	2,418.3	0.00	0.00	0.00
9,400.0	90.39	90.00	6,767.5	-1,970.01	-243.6	2,509.2	2,518.2	0.00	0.00	0.00
9,500.0	90.39	90.00	6,766.8	-1,969.34	-243.6	2,609.2	2,618.0	0.00	0.00	0.00
9,600.0	90.39	90.00	6,766.2	-1,968.66	-243.6	2,709.2	2,717.9	0.00	0.00	0.00
9,700.0	90.39	90.00	6,765.5	-1,967.99	-243.6	2,809.2	2,817.8	0.00	0.00	0.00
9,800.0	90.39	90.00	6,764.8	-1,967.32	-243.6	2,909.2	2,917.7	0.00	0.00	0.00
9,900.0	90.39	90.00	6,764.1	-1,966.64	-243.6	3,009.2	3,017.5	0.00	0.00	0.00
10,000.0	90.39	90.00	6,763.5	-1,965.97	-243.6	3,109.2	3,117.4	0.00	0.00	0.00
10,100.0	90.39	90.00	6,762.8	-1,965.29	-243.6	3,209.2	3,217.3	0.00	0.00	0.00
10,200.0	90.39	90.00	6,762.1	-1,964.62	-243.6	3,309.2	3,317.2	0.00	0.00	0.00
10,300.0	90.39	90.00	6,761.4	-1,963.94	-243.6	3,409.2	3,417.0	0.00	0.00	0.00
10,400.0	90.39	90.00	6,760.8	-1,963.27	-243.6	3,509.2	3,516.9	0.00	0.00	0.00
10,500.0	90.39	90.00	6,760.1	-1,962.59	-243.6	3,609.2	3,616.8	0.00	0.00	0.00
10,600.0	90.39	90.00	6,759.4	-1,961.91	-243.6	3,709.2	3,716.7	0.00	0.00	0.00
10,700.0	90.39	90.00	6,758.7	-1,961.23	-243.6	3,809.2	3,816.6	0.00	0.00	0.00
10,800.0	90.39	90.00	6,758.1	-1,960.56	-243.6	3,909.2	3,916.4	0.00	0.00	0.00
10,900.0	90.39	90.00	6,757.4	-1,959.88	-243.6	4,009.2	4,016.3	0.00	0.00	0.00
11,000.0	90.39	90.00	6,756.7	-1,959.20	-243.6	4,109.2	4,116.2	0.00	0.00	0.00
11,100.0	90.39	90.00	6,756.0	-1,958.52	-243.6	4,209.2	4,216.1	0.00	0.00	0.00
11,200.0	90.39	90.00	6,755.3	-1,957.84	-243.6	4,309.2	4,315.9	0.00	0.00	0.00
11,300.0	90.39	90.00	6,754.7	-1,957.16	-243.6	4,409.2	4,415.8	0.00	0.00	0.00
11,400.0	90.39	90.00	6,754.0	-1,956.48	-243.6	4,509.2	4,515.7	0.00	0.00	0.00
11,500.0	90.39	90.00	6,753.3	-1,955.80	-243.6	4,609.2	4,615.6	0.00	0.00	0.00
11,600.0	90.39	90.00	6,752.6	-1,955.12	-243.6	4,709.2	4,715.4	0.00	0.00	0.00
11,700.0	90.39	90.00	6,751.9	-1,954.44	-243.6	4,809.2	4,815.3	0.00	0.00	0.00
11,800.0	90.39	90.00	6,751.3	-1,953.75	-243.6	4,909.2	4,915.2	0.00	0.00	0.00
<b>BHL: 195ft FSL &amp; 75ft FEL of Sec 28</b>										
<b>11,837.2</b>	<b>90.39</b>	<b>90.00</b>	<b>6,751.0</b>	<b>-1,953.50</b>	<b>-243.6</b>	<b>4,946.4</b>	<b>4,952.3</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,361.6	3,330.5	PARKMAN				
3,972.5	3,935.5	SUSSEX				
4,427.5	4,390.5	SHANNON				
6,609.8	6,531.5	SHARON SPRINGS				
6,821.0	6,669.5	NIOBRARA A				
7,069.2	6,764.5	NIOBRARA B				

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well KINZER 28I-202
<b>Company:</b>	PDC ENERGY	<b>TVD Reference:</b>	KB-EST @ 4797.5usft
<b>Project:</b>	WELD COUNTY, COLORADO	<b>MD Reference:</b>	KB-EST @ 4797.5usft
<b>Site:</b>	SW SW SEC. 28 T5N R67W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	KINZER 28I-202	<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: 430ft FSL & 393ft FWL of Sec 28
1,000.0	1,000.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,502.5	1,499.9	-23.8	-37.0	EOB TO 10.05° INC
3,580.8	3,546.3	-219.8	-342.1	END OF TANGENT
4,083.3	4,046.3	-243.6	-379.1	EOD TO VERTICAL
6,102.8	6,065.8	-243.6	-379.1	KOP (8°/100ft BUR)
7,232.6	6,782.0	-243.6	341.9	HZ LP *NEW*: 184.6ft FSL & 735.9ft FWL of Sec 28
11,837.2	6,751.0	-243.6	4,946.4	BHL: 195ft FSL & 75ft FEL of Sec 28