

PDC ENERGY

**WELD COUNTY, COLORADO
SW NW SEC. 6 T6N R64W 6th P.M.
BENNETT 6F-432**

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-432
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

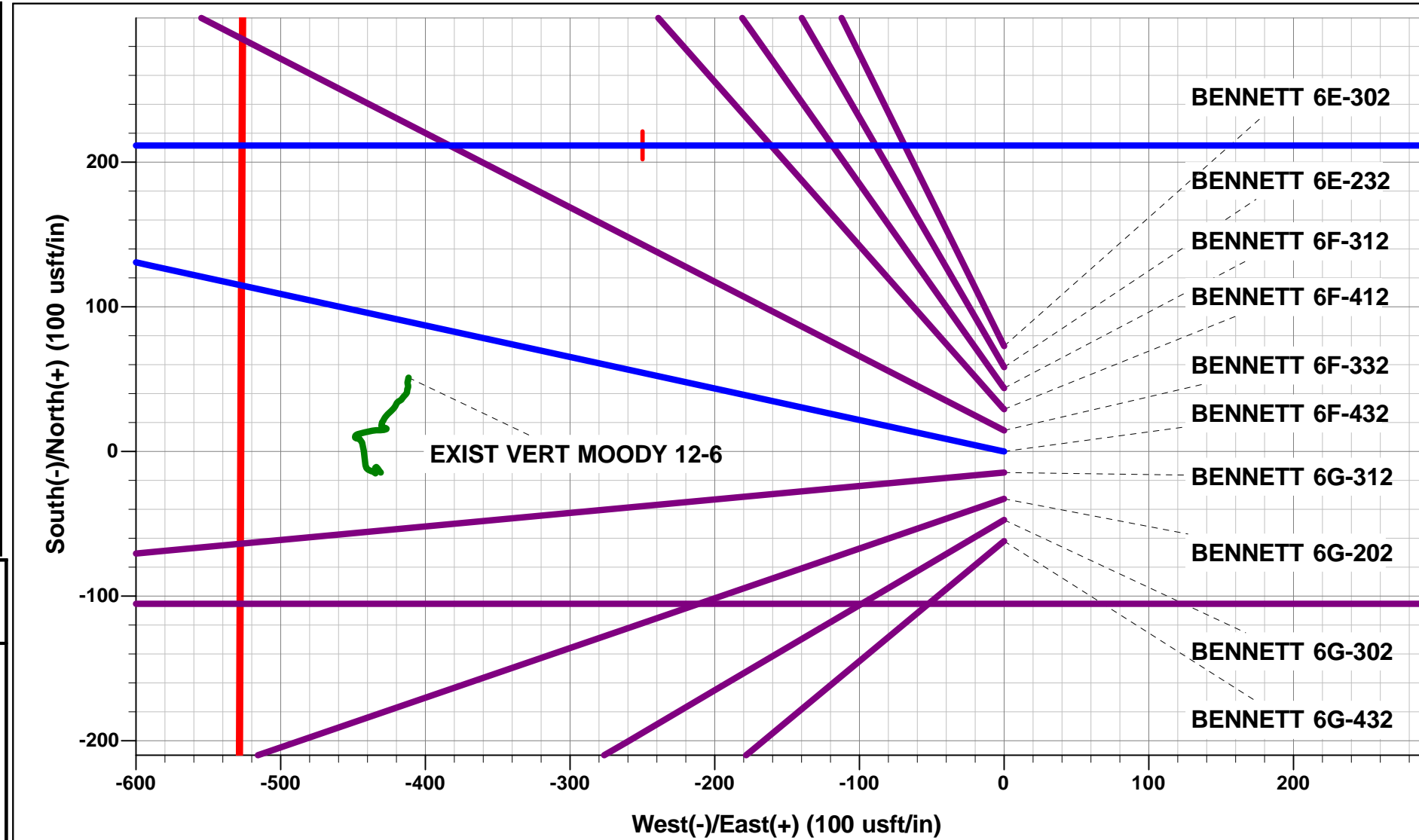


ANNOTATIONS

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: 2139ft FNL & 988ft FWL of Sec 6
800.0	800.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1395.4	1399.8	12.00	282.29	13.3	-61.1	-60.2	62.6	EOB TO 12° INC
5486.4	5582.1	12.00	282.29	198.3	-910.5	-896.9	931.8	END OF TANGENT
6081.8	6181.9	0.00	0.00	211.6	-971.6	-957.1	994.4	EOD TO VERTICAL
6411.8	6511.9	0.00	0.00	211.6	-971.6	-957.1	994.4	KOP (8°/100ft BUR)
7128.0	7642.5	90.45	90.00	211.6	-249.8	-236.6	1716.2	HZ LANDING PNT *NEW*: 1920.1ft FNL & 736.8ft FWL of Sec 6
7098.0	11398.5	90.46	90.00	211.6	3506.1	3512.5	5472.1	BHL: 1975ft FNL & 500ft FEL of Sec 6

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - BENNETT 6F-432	6411.8	211.6	-971.6	40.516851	-104.601514
BHL - BENNETT 6F-432	7098.0	211.6	3506.1	40.516850	-104.585410
HZ LANDING PNT *NEW* - BENNETT 6F-432	7128.0	211.6	-249.8	40.516851	-104.598918

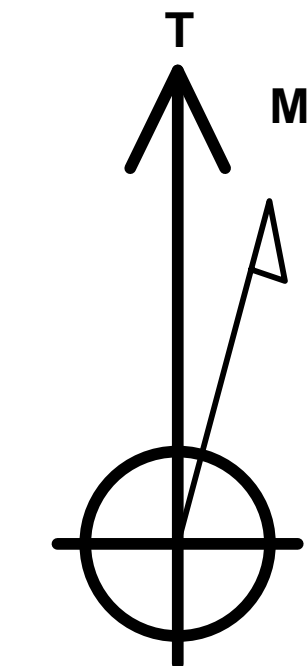


PROPOSED LOCAL COORDINATES:

SHL: 2139ft FNL & 988ft FWL of Sec 6

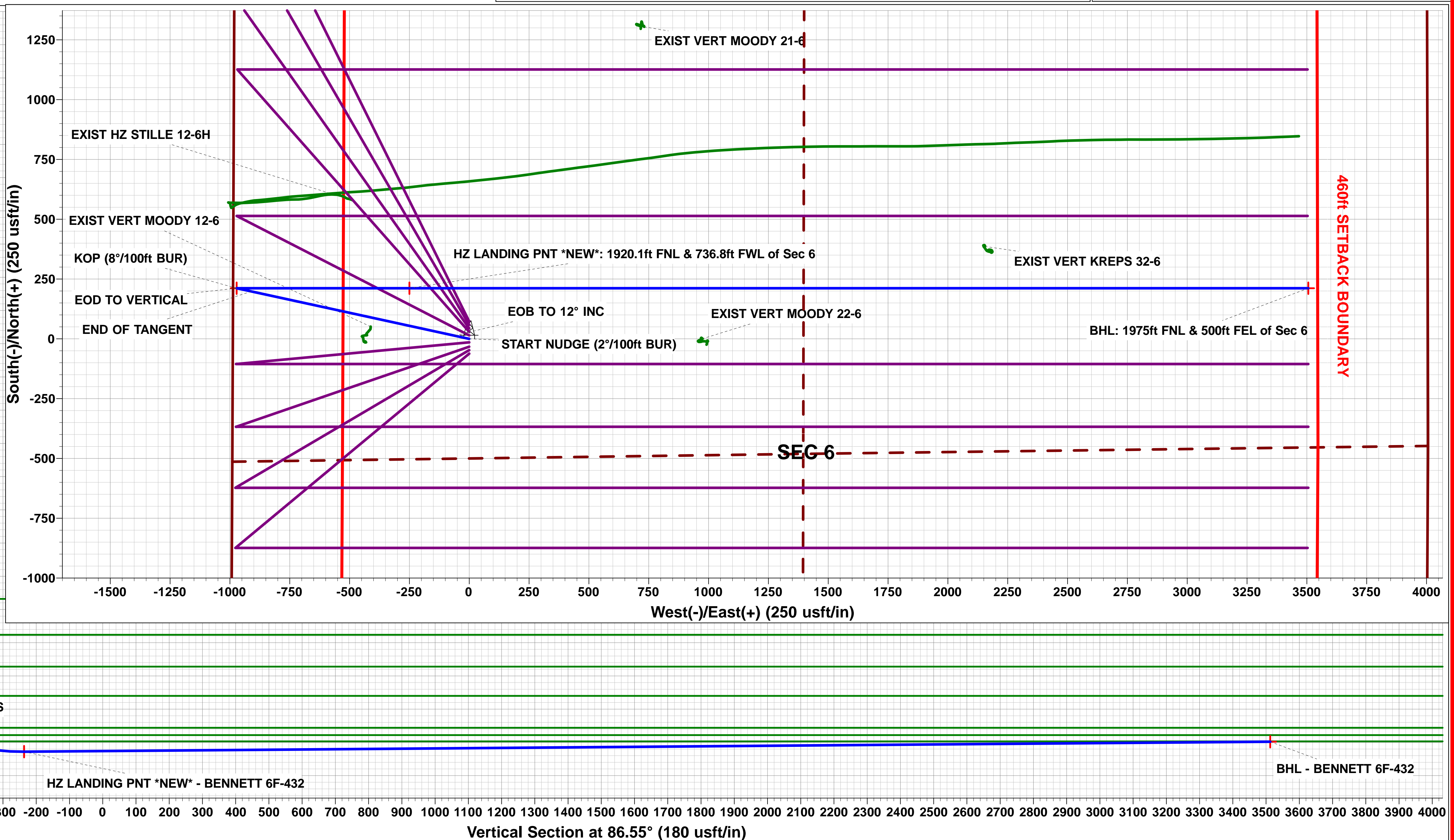
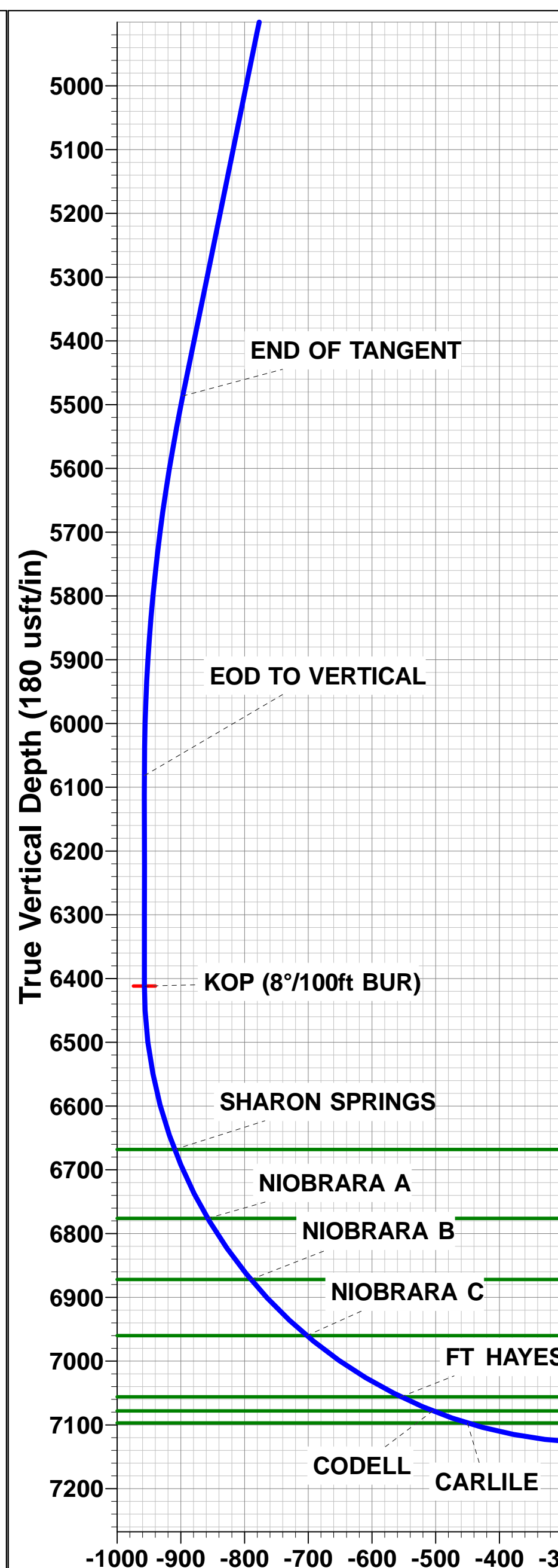
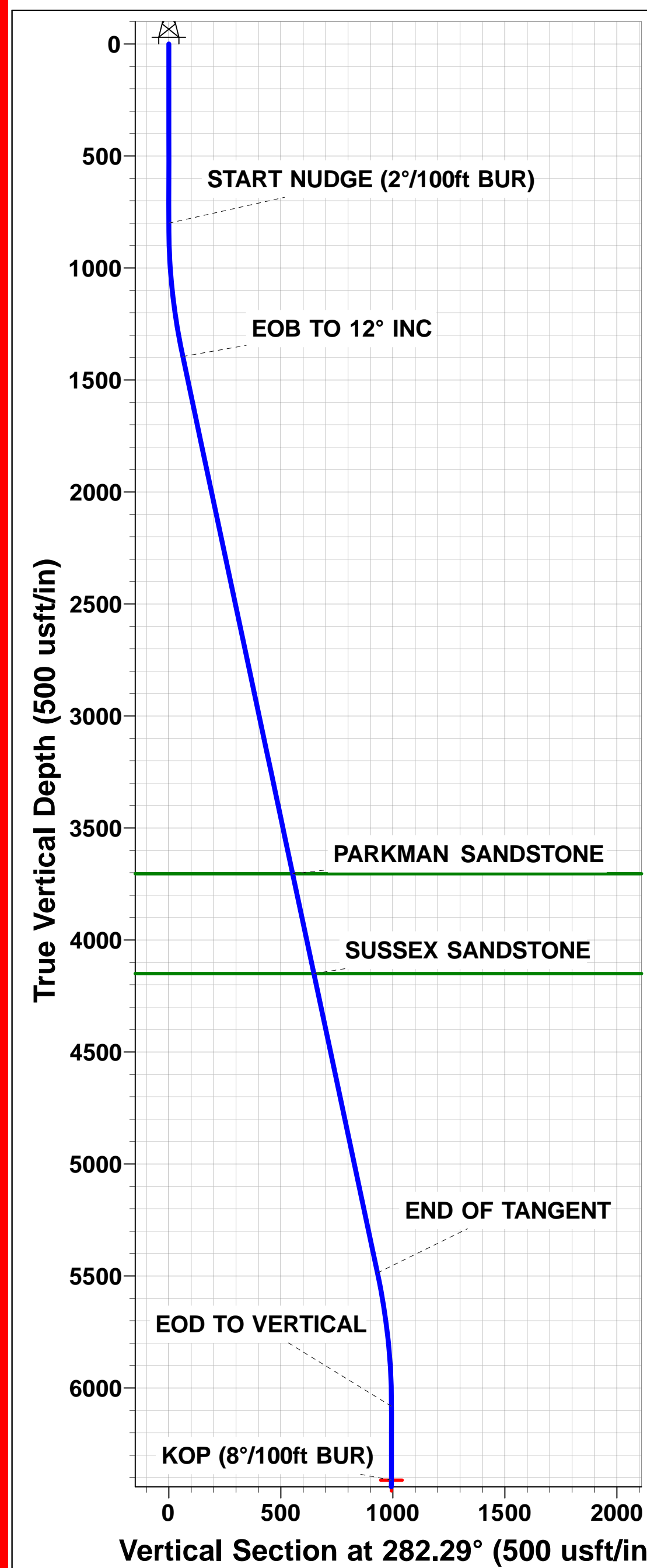
HZ LP *NEW*: 1920.1ft FNL & 736.8ft FWL of Sec 6

BHL: 1975ft 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



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BENNETT 6F-432
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Site:	SW NW SEC. 6 T6N R64W 6th P.M.	North Reference:	True
Well:	BENNETT 6F-432	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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

Well	BENNETT 6F-432		
Well Position	+N-S	61.9 usft	Northing:
	+E-W	0.0 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	13/04/2016	8.26	67.00	52,605

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 (°)
	7,098.0	0.0	0.0	86.55

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	-4,797.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	-3,997.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,399.8	12.00	282.29	1,395.4	-3,401.6	13.3	-61.1	2.00	2.00	0.00	282.29	
5,582.1	12.00	282.29	5,486.4	689.4	198.3	-910.5	0.00	0.00	0.00	0.00	
6,181.9	0.00	0.00	6,081.8	1,284.8	211.6	-971.6	2.00	-2.00	0.00	180.00	
6,511.9	0.00	0.00	6,411.8	1,614.8	211.6	-971.6	0.00	0.00	0.00	0.00	KOP - BENNETT 6F
7,642.5	90.45	90.00	7,128.0	2,331.0	211.6	-249.8	8.00	8.00	0.00	90.00	
11,398.5	90.46	90.00	7,098.0	2,301.0	211.6	3,506.1	0.00	0.00	0.00	4.53	BHL - BENNETT 6F

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BENNETT 6F-432
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Site:	SW NW SEC. 6 T6N R64W 6th P.M.	North Reference:	True
Well:	BENNETT 6F-432	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)
SHL: 2139ft FNL & 988ft FWL of Sec 6										
0.0	0.00	0.00	0.0	4,797.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,697.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,597.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,497.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,397.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,297.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,197.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	4,097.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
800.0	0.00	0.00	800.0	3,997.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	2.00	282.29	900.0	3,897.02	0.4	-1.7	-1.7	2.00	2.00	0.00
1,000.0	4.00	282.29	999.8	3,797.16	1.5	-6.8	-6.7	2.00	2.00	0.00
1,100.0	6.00	282.29	1,099.5	3,697.55	3.3	-15.3	-15.1	2.00	2.00	0.00
1,200.0	8.00	282.29	1,198.7	3,598.30	5.9	-27.2	-26.8	2.00	2.00	0.00
1,300.0	10.00	282.29	1,297.5	3,499.53	9.3	-42.5	-41.9	2.00	2.00	0.00
EOB TO 12° INC										
1,399.8	12.00	282.29	1,395.4	3,401.58	13.3	-61.1	-60.2	2.00	2.00	0.00
1,400.0	12.00	282.29	1,395.6	3,401.38	13.3	-61.2	-60.3	0.00	0.00	0.00
1,500.0	12.00	282.29	1,493.4	3,303.56	17.7	-81.5	-80.3	0.00	0.00	0.00
1,600.0	12.00	282.29	1,591.3	3,205.74	22.2	-101.8	-100.3	0.00	0.00	0.00
1,700.0	12.00	282.29	1,689.1	3,107.93	26.6	-122.1	-120.3	0.00	0.00	0.00
1,800.0	12.00	282.29	1,786.9	3,010.11	31.0	-142.4	-140.3	0.00	0.00	0.00
1,900.0	12.00	282.29	1,884.7	2,912.30	35.4	-162.7	-160.3	0.00	0.00	0.00
2,000.0	12.00	282.29	1,982.5	2,814.48	39.9	-183.0	-180.3	0.00	0.00	0.00
2,100.0	12.00	282.29	2,080.3	2,716.66	44.3	-203.3	-200.3	0.00	0.00	0.00
2,200.0	12.00	282.29	2,178.2	2,618.85	48.7	-223.6	-220.3	0.00	0.00	0.00
2,300.0	12.00	282.29	2,276.0	2,521.03	53.1	-243.9	-240.3	0.00	0.00	0.00
2,400.0	12.00	282.29	2,373.8	2,423.21	57.5	-264.3	-260.3	0.00	0.00	0.00
2,500.0	12.00	282.29	2,471.6	2,325.40	62.0	-284.6	-280.3	0.00	0.00	0.00
2,600.0	12.00	282.29	2,569.4	2,227.58	66.4	-304.9	-300.3	0.00	0.00	0.00
2,700.0	12.00	282.29	2,667.2	2,129.77	70.8	-325.2	-320.3	0.00	0.00	0.00
2,800.0	12.00	282.29	2,765.1	2,031.95	75.2	-345.5	-340.3	0.00	0.00	0.00
2,900.0	12.00	282.29	2,862.9	1,934.13	79.7	-365.8	-360.3	0.00	0.00	0.00
3,000.0	12.00	282.29	2,960.7	1,836.32	84.1	-386.1	-380.3	0.00	0.00	0.00
3,100.0	12.00	282.29	3,058.5	1,738.50	88.5	-406.4	-400.3	0.00	0.00	0.00
3,200.0	12.00	282.29	3,156.3	1,640.68	92.9	-426.7	-420.3	0.00	0.00	0.00
3,300.0	12.00	282.29	3,254.1	1,542.87	97.4	-447.0	-440.3	0.00	0.00	0.00
3,400.0	12.00	282.29	3,351.9	1,445.05	101.8	-467.3	-460.4	0.00	0.00	0.00
3,500.0	12.00	282.29	3,449.8	1,347.24	106.2	-487.6	-480.4	0.00	0.00	0.00
3,600.0	12.00	282.29	3,547.6	1,249.42	110.6	-507.9	-500.4	0.00	0.00	0.00
3,700.0	12.00	282.29	3,645.4	1,151.60	115.0	-528.3	-520.4	0.00	0.00	0.00
PARKMAN SANDSTONE										
3,759.9	12.00	282.29	3,704.0	1,093.00	117.7	-540.4	-532.4	0.00	0.00	0.00
3,800.0	12.00	282.29	3,743.2	1,053.79	119.5	-548.6	-540.4	0.00	0.00	0.00
3,900.0	12.00	282.29	3,841.0	955.97	123.9	-568.9	-560.4	0.00	0.00	0.00
4,000.0	12.00	282.29	3,938.8	858.15	128.3	-589.2	-580.4	0.00	0.00	0.00
4,100.0	12.00	282.29	4,036.7	760.34	132.7	-609.5	-600.4	0.00	0.00	0.00
4,200.0	12.00	282.29	4,134.5	662.52	137.2	-629.8	-620.4	0.00	0.00	0.00
SUSSEX SANDSTONE										
4,215.9	12.00	282.29	4,150.0	647.00	137.9	-633.0	-623.6	0.00	0.00	0.00
4,300.0	12.00	282.29	4,232.3	564.71	141.6	-650.1	-640.4	0.00	0.00	0.00
4,400.0	12.00	282.29	4,330.1	466.89	146.0	-670.4	-660.4	0.00	0.00	0.00
4,500.0	12.00	282.29	4,427.9	369.07	150.4	-690.7	-680.4	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BENNETT 6F-432
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Site:	SW NW SEC. 6 T6N R64W 6th P.M.	North Reference:	True
Well:	BENNETT 6F-432	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	12.00	282.29	4,525.7	271.26	154.9	-711.0	-700.4	0.00	0.00	0.00
4,700.0	12.00	282.29	4,623.6	173.44	159.3	-731.3	-720.4	0.00	0.00	0.00
4,800.0	12.00	282.29	4,721.4	75.62	163.7	-751.6	-740.4	0.00	0.00	0.00
4,900.0	12.00	282.29	4,819.2	-22.19	168.1	-772.0	-760.4	0.00	0.00	0.00
5,000.0	12.00	282.29	4,917.0	-120.01	172.5	-792.3	-780.4	0.00	0.00	0.00
5,100.0	12.00	282.29	5,014.8	-217.82	177.0	-812.6	-800.4	0.00	0.00	0.00
5,200.0	12.00	282.29	5,112.6	-315.64	181.4	-832.9	-820.4	0.00	0.00	0.00
5,300.0	12.00	282.29	5,210.5	-413.46	185.8	-853.2	-840.4	0.00	0.00	0.00
5,400.0	12.00	282.29	5,308.3	-511.27	190.2	-873.5	-860.5	0.00	0.00	0.00
5,500.0	12.00	282.29	5,406.1	-609.09	194.7	-893.8	-880.5	0.00	0.00	0.00
END OF TANGENT										
5,582.1	12.00	282.29	5,486.4	-689.38	198.3	-910.5	-896.9	0.00	0.00	0.00
5,600.0	11.64	282.29	5,503.9	-706.92	199.1	-914.1	-900.4	2.00	-2.00	0.00
5,700.0	9.64	282.29	5,602.2	-805.19	203.0	-932.1	-918.2	2.00	-2.00	0.00
5,800.0	7.64	282.29	5,701.1	-904.05	206.2	-946.8	-932.6	2.00	-2.00	0.00
5,900.0	5.64	282.29	5,800.4	-1,003.38	208.7	-958.1	-943.8	2.00	-2.00	0.00
6,000.0	3.64	282.29	5,900.0	-1,103.05	210.4	-966.0	-951.5	2.00	-2.00	0.00
6,100.0	1.64	282.29	5,999.9	-1,202.94	211.4	-970.5	-956.0	2.00	-2.00	0.00
EOD TO VERTICAL										
6,181.9	0.00	0.00	6,081.8	-1,284.80	211.6	-971.6	-957.1	2.00	-2.00	0.00
6,200.0	0.00	0.00	6,099.9	-1,302.92	211.6	-971.6	-957.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,199.9	-1,402.92	211.6	-971.6	-957.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,299.9	-1,502.92	211.6	-971.6	-957.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,399.9	-1,602.92	211.6	-971.6	-957.1	0.00	0.00	0.00
KOP (8°/100ft BUR)										
6,511.9	0.00	0.00	6,411.8	-1,614.80	211.6	-971.6	-957.1	0.00	0.00	0.00
6,600.0	7.05	90.00	6,499.7	-1,702.70	211.6	-966.2	-951.7	8.00	8.00	0.00
6,700.0	15.05	90.00	6,597.8	-1,800.77	211.6	-947.0	-932.6	8.00	8.00	0.00
SHARON SPRINGS										
6,773.9	20.96	90.00	6,668.0	-1,871.00	211.6	-924.2	-909.8	8.00	8.00	0.00
6,800.0	23.05	90.00	6,692.2	-1,895.21	211.6	-914.4	-900.0	8.00	8.00	0.00
NIORARA A										
6,893.9	30.57	90.00	6,776.0	-1,979.00	211.6	-872.1	-857.8	8.00	8.00	0.00
6,900.0	31.05	90.00	6,781.2	-1,984.20	211.6	-869.0	-854.7	8.00	8.00	0.00
7,000.0	39.05	90.00	6,863.0	-2,066.00	211.6	-811.6	-797.4	8.00	8.00	0.00
NIORARA B										
7,011.7	39.98	90.00	6,872.0	-2,075.00	211.6	-804.2	-790.0	8.00	8.00	0.00
7,100.0	47.05	90.00	6,936.0	-2,139.02	211.6	-743.4	-729.3	8.00	8.00	0.00
NIORARA C										
7,136.2	49.95	90.00	6,960.0	-2,163.00	211.6	-716.3	-702.2	8.00	8.00	0.00
7,200.0	55.05	90.00	6,998.8	-2,201.83	211.6	-665.7	-651.7	8.00	8.00	0.00
7,300.0	63.05	90.00	7,050.2	-2,253.22	211.6	-580.0	-566.2	8.00	8.00	0.00
FT HAYES										
7,313.0	64.09	90.00	7,056.0	-2,259.00	211.6	-568.4	-554.6	8.00	8.00	0.00
CODELL										
7,367.7	68.46	90.00	7,078.0	-2,281.00	211.6	-518.3	-504.6	8.00	8.00	0.00
7,400.0	71.05	90.00	7,089.2	-2,292.18	211.6	-488.0	-474.4	8.00	8.00	0.00
CARLILE										
7,425.4	73.08	90.00	7,097.0	-2,300.00	211.6	-463.8	-450.2	8.00	8.00	0.00
7,500.0	79.05	90.00	7,115.0	-2,317.96	211.6	-391.4	-378.0	8.00	8.00	0.00
7,600.0	87.05	90.00	7,127.0	-2,330.05	211.6	-292.3	-279.0	8.00	8.00	0.00
HZ LANDING PNT *NEW*: 1920.1ft FNL & 736.8ft FWL of Sec 6										

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BENNETT 6F-432
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Site:	SW NW SEC. 6 T6N R64W 6th P.M.	North Reference:	True
Well:	BENNETT 6F-432	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)
7,642.5	90.45	90.00	7,128.0	-2,330.98	211.6	-249.8	-236.6	8.00	8.00	0.00
7,700.0	90.45	90.00	7,127.5	-2,330.52	211.6	-192.3	-179.2	0.00	0.00	0.00
7,800.0	90.45	90.00	7,126.7	-2,329.74	211.6	-92.3	-79.4	0.00	0.00	0.00
7,900.0	90.45	90.00	7,126.0	-2,328.95	211.6	7.7	20.4	0.00	0.00	0.00
8,000.0	90.45	90.00	7,125.2	-2,328.16	211.6	107.7	120.3	0.00	0.00	0.00
8,100.0	90.45	90.00	7,124.4	-2,327.37	211.6	207.7	220.1	0.00	0.00	0.00
8,200.0	90.45	90.00	7,123.6	-2,326.59	211.6	307.7	319.9	0.00	0.00	0.00
8,300.0	90.45	90.00	7,122.8	-2,325.80	211.6	407.7	419.7	0.00	0.00	0.00
8,400.0	90.45	90.00	7,122.0	-2,325.01	211.6	507.7	519.5	0.00	0.00	0.00
8,500.0	90.45	90.00	7,121.2	-2,324.22	211.6	607.7	619.3	0.00	0.00	0.00
8,600.0	90.45	90.00	7,120.4	-2,323.42	211.6	707.7	719.2	0.00	0.00	0.00
8,700.0	90.45	90.00	7,119.6	-2,322.63	211.6	807.7	819.0	0.00	0.00	0.00
8,800.0	90.45	90.00	7,118.8	-2,321.84	211.6	907.7	918.8	0.00	0.00	0.00
8,900.0	90.45	90.00	7,118.0	-2,321.05	211.6	1,007.7	1,018.6	0.00	0.00	0.00
9,000.0	90.46	90.00	7,117.3	-2,320.25	211.6	1,107.7	1,118.4	0.00	0.00	0.00
9,100.0	90.46	90.00	7,116.5	-2,319.46	211.6	1,207.7	1,218.2	0.00	0.00	0.00
9,200.0	90.46	90.00	7,115.7	-2,318.66	211.6	1,307.7	1,318.0	0.00	0.00	0.00
9,300.0	90.46	90.00	7,114.9	-2,317.86	211.6	1,407.7	1,417.9	0.00	0.00	0.00
9,400.0	90.46	90.00	7,114.1	-2,317.07	211.6	1,507.7	1,517.7	0.00	0.00	0.00
9,500.0	90.46	90.00	7,113.3	-2,316.27	211.6	1,607.7	1,617.5	0.00	0.00	0.00
9,600.0	90.46	90.00	7,112.5	-2,315.47	211.6	1,707.7	1,717.3	0.00	0.00	0.00
9,700.0	90.46	90.00	7,111.7	-2,314.67	211.6	1,807.7	1,817.1	0.00	0.00	0.00
9,800.0	90.46	90.00	7,110.9	-2,313.87	211.6	1,907.7	1,916.9	0.00	0.00	0.00
9,900.0	90.46	90.00	7,110.1	-2,313.07	211.6	2,007.7	2,016.7	0.00	0.00	0.00
10,000.0	90.46	90.00	7,109.3	-2,312.27	211.6	2,107.6	2,116.6	0.00	0.00	0.00
10,100.0	90.46	90.00	7,108.5	-2,311.47	211.6	2,207.6	2,216.4	0.00	0.00	0.00
10,200.0	90.46	90.00	7,107.7	-2,310.67	211.6	2,307.6	2,316.2	0.00	0.00	0.00
10,300.0	90.46	90.00	7,106.9	-2,309.87	211.6	2,407.6	2,416.0	0.00	0.00	0.00
10,400.0	90.46	90.00	7,106.1	-2,309.06	211.6	2,507.6	2,515.8	0.00	0.00	0.00
10,500.0	90.46	90.00	7,105.3	-2,308.26	211.6	2,607.6	2,615.6	0.00	0.00	0.00
10,600.0	90.46	90.00	7,104.5	-2,307.45	211.6	2,707.6	2,715.5	0.00	0.00	0.00
10,700.0	90.46	90.00	7,103.6	-2,306.65	211.6	2,807.6	2,815.3	0.00	0.00	0.00
10,800.0	90.46	90.00	7,102.8	-2,305.84	211.6	2,907.6	2,915.1	0.00	0.00	0.00
10,900.0	90.46	90.00	7,102.0	-2,305.03	211.6	3,007.6	3,014.9	0.00	0.00	0.00
11,000.0	90.46	90.00	7,101.2	-2,304.23	211.6	3,107.6	3,114.7	0.00	0.00	0.00
11,100.0	90.46	90.00	7,100.4	-2,303.42	211.6	3,207.6	3,214.5	0.00	0.00	0.00
11,200.0	90.46	90.00	7,099.6	-2,302.61	211.6	3,307.6	3,314.3	0.00	0.00	0.00
11,300.0	90.46	90.00	7,098.8	-2,301.80	211.6	3,407.6	3,414.2	0.00	0.00	0.00
BHL: 1975ft FNL & 500ft FEL of Sec 6										
11,398.5	90.46	90.00	7,098.0	-2,301.00	211.6	3,506.1	3,512.5	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BENNETT 6F-432
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4797.0usft (Original Well Elev)
Site:	SW NW SEC. 6 T6N R64W 6th P.M.	North Reference:	True
Well:	BENNETT 6F-432	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations					
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,759.9	3,704.0	PARKMAN SANDSTONE			
4,215.9	4,150.0	SUSSEX SANDSTONE			
6,773.9	6,668.0	SHARON SPRINGS			
6,893.9	6,776.0	NIOBRARA A			
7,011.7	6,872.0	NIOBRARA B			
7,136.2	6,960.0	NIOBRARA C			
7,313.0	7,056.0	FT HAYES			
7,367.7	7,078.0	CODELL			
7,425.4	7,097.0	CARLILE			

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.0	0.0	0.0	0.0	SHL: 2139ft FNL & 988ft FWL of Sec 6
800.0	800.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,399.8	1,395.4	13.3	-61.1	EOB TO 12° INC
5,582.1	5,486.4	198.3	-910.5	END OF TANGENT
6,181.9	6,081.8	211.6	-971.6	EOD TO VERTICAL
6,511.9	6,411.8	211.6	-971.6	KOP (8°/100ft BUR)
7,642.5	7,128.0	211.6	-249.8	HZ LANDING PNT *NEW*: 1920.1ft FNL & 736.8ft FWL of Sec 6
11,398.5	7,098.0	211.6	3,506.1	BHL: 1975ft FNL & 500ft FEL of Sec 6