

PDC ENERGY

**WELD COUNTY, COLORADO
SE SE SEC. 21 T5N R64W 6th P.M.
CHESNUT 21Y-404**

ORIGINAL WELLBORE

14 November, 2015

Plan: PROPOSAL #3





Project: WELD COUNTY, COLORADO
Site: SE SE SEC. 21 T5N R64W 6th P.M.
Well: CHESNUT 21Y-404
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #3

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation	
1600.0	1600.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)	
3075.5	3150.0	31.00	250.01	-139.9	-384.5	1.5	409.2	EOB TO 31° INC	
3268.0	3374.8	31.29	241.33	-187.7	-490.2	-6.9	525.3	EOB & T TO 31.29° INC & 241.33° AZ	
3277.0	3385.4	31.50	241.33	-190.4	-495.1	-7.8	530.8	EOB TO 31.5° INC	
4428.4	4735.8	31.50	241.33	-528.9	-1114.2	-111.8	1236.5	END OF TANGENT	
5925.4	6311.0	0.00	241.33	-731.5	-1484.7	-174.0	1658.8	EOD TO VERTICAL	
5955.4	6341.0	0.00	0.00	-731.5	-1484.7	-174.0	1658.8	KOP (8°/100ft BUR)	
6671.5	7474.6	90.69	0.00	-6.7	-1484.7	506.2	2383.6	7" ICP - CHESNUT 21Y-404 (P3)	
6622.5	11518.2	90.70	360.00	4036.6	-1484.7	4301.0	6426.9	BHL - CHESNUT 21Y-404 (P3)	

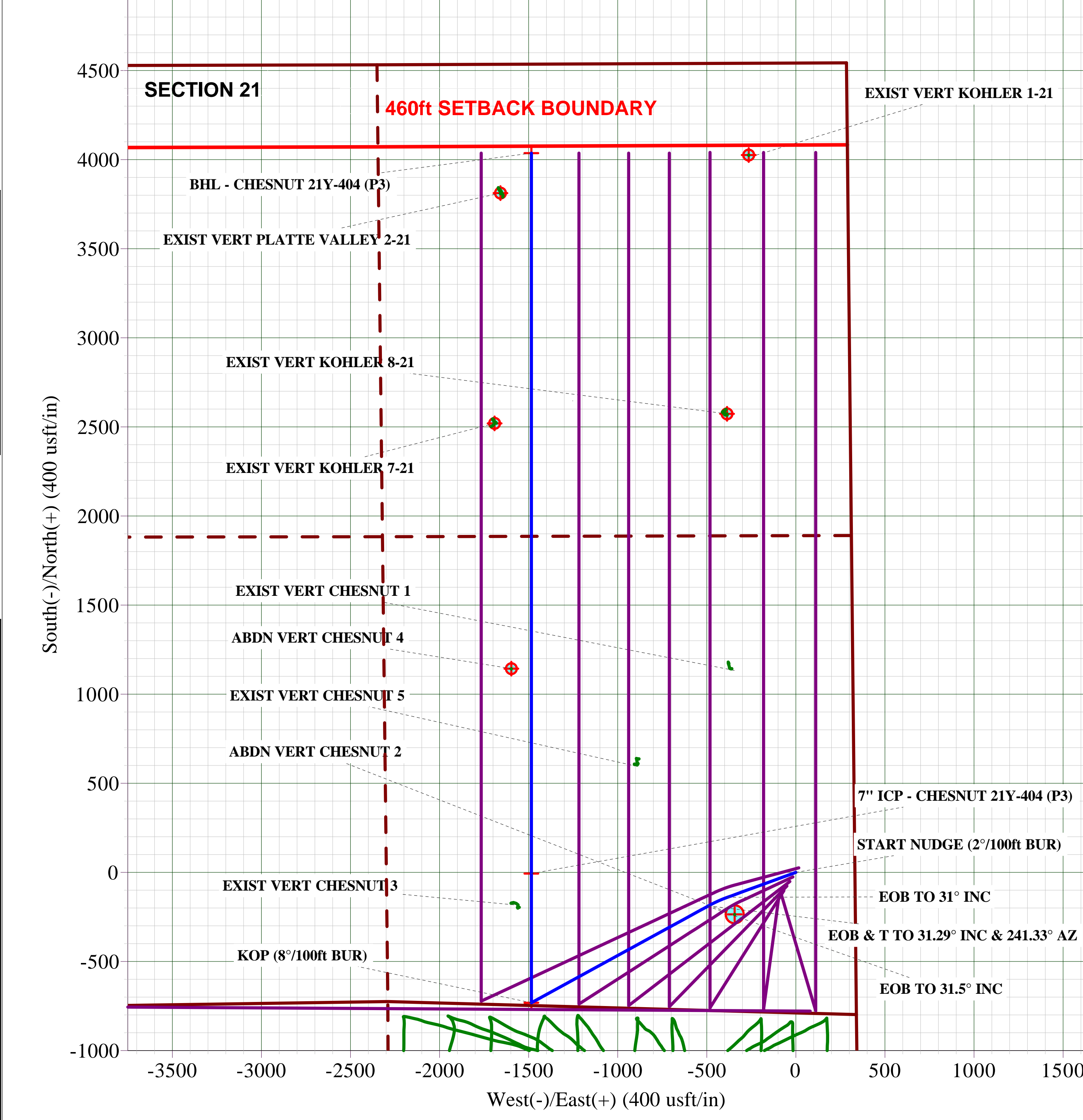
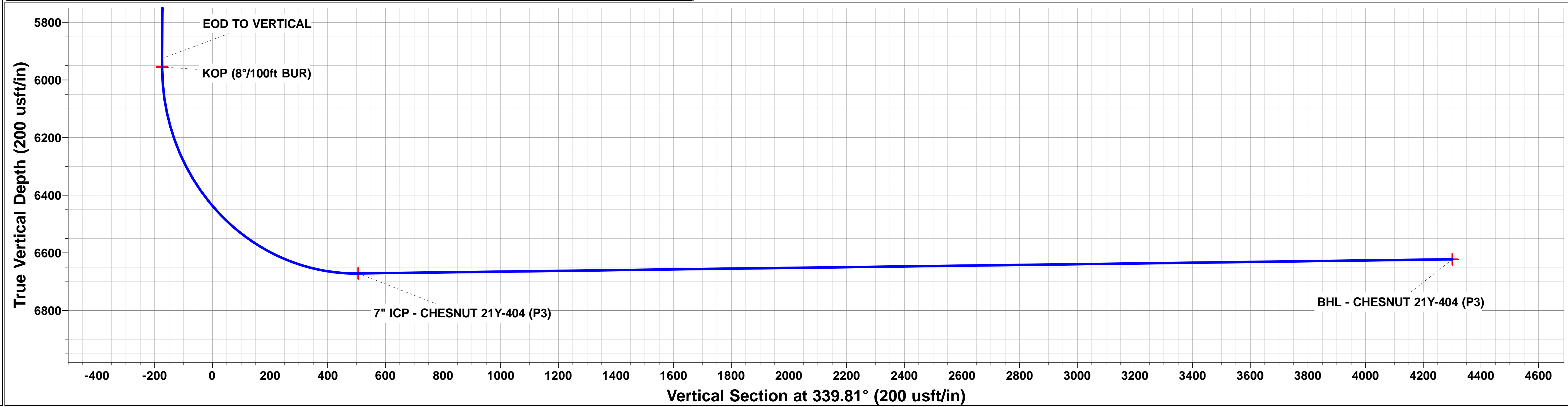
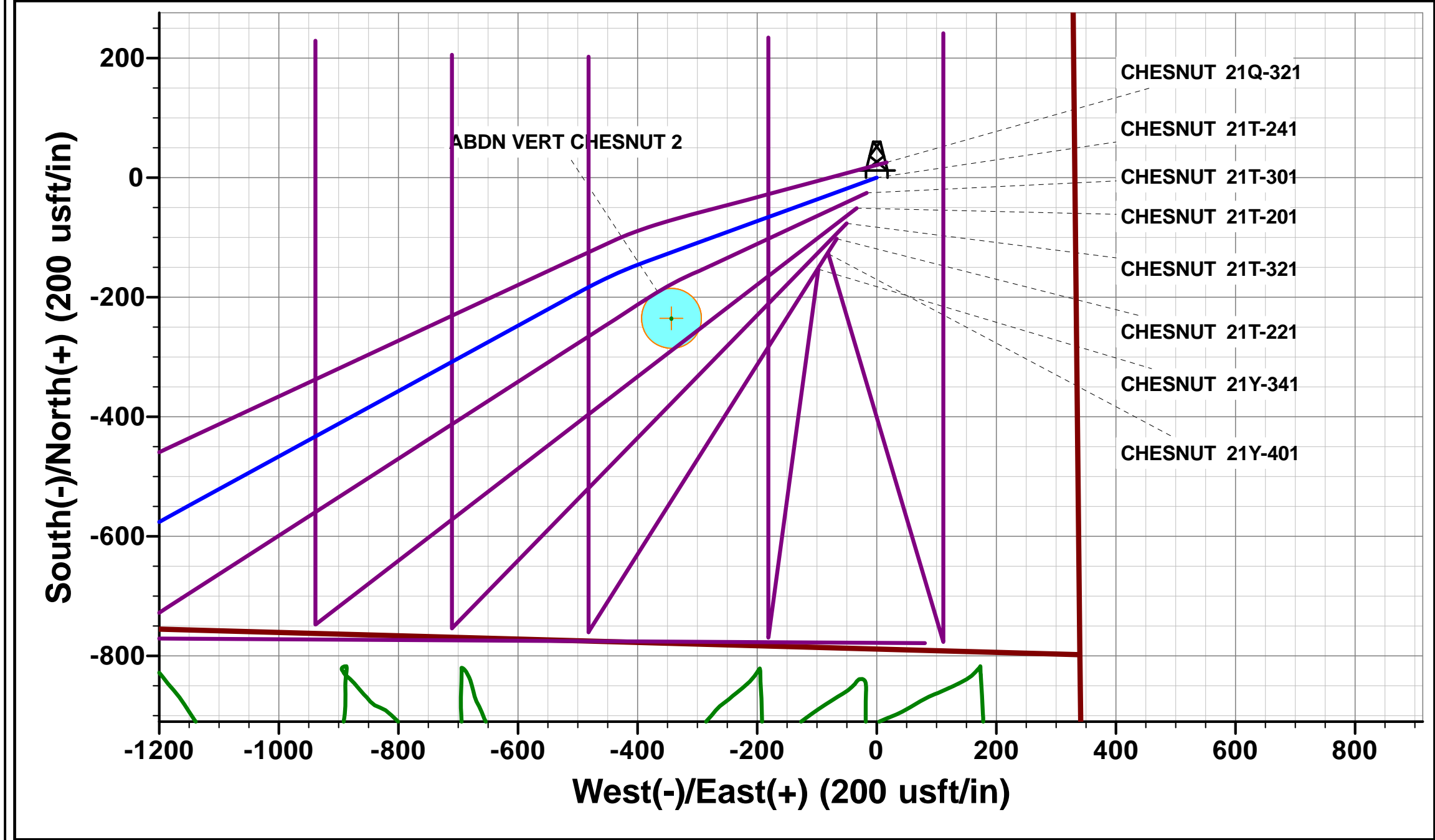
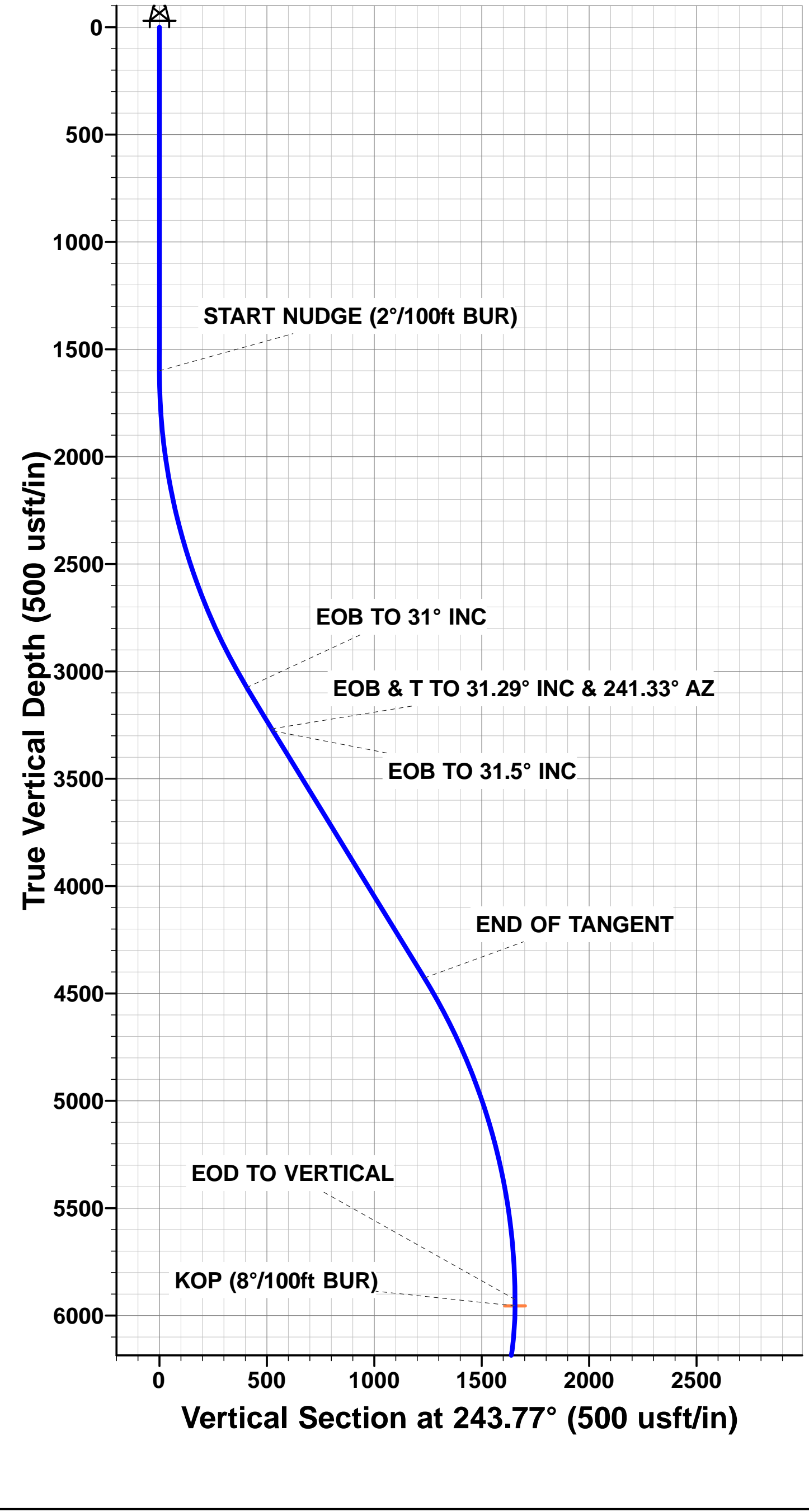
PROPOSED LOCAL COORDINATES:

SHL: 788ft FSL & 331t FEL Sec 21

7" ICP: 781.3ft FSL & 1815.7ft FEL Sec 21

BHL: 500ft FNL & 1774ft FEL Sec 21

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - CHESNUT 21Y-404 (P3)	5955.4	-731.5	-1484.7	40.377632	-104.551819
BHL - CHESNUT 21Y-404 (P3)	6622.5	4036.6	-1484.7	40.390720	-104.551820
7" ICP - CHESNUT 21Y-404 (P3)	6671.5	-6.7	-1484.7	40.379621	-104.551819



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CHESNUT 21Y-404
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4650.5usft
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4650.5usft
Site:	SE SE SEC. 21 T5N R64W 6th P.M.	North Reference:	True
Well:	CHESNUT 21Y-404	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

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	SE SE SEC. 21 T5N R64W 6th P.M.		
Site Position:		Northing:	1,382,418.54 usft
From:	Map	Easting:	3,265,539.58 usft
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft
		Latitude:	40.379223
		Longitude:	-104.546846
		Grid Convergence:	0.62 °

Well	CHESNUT 21Y-404		
Well Position	+N/-S	151.9 usft	Northing:
	+E/-W	99.1 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	31/08/2015	8.28	66.92	52,611

Design	PROPOSAL #3				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	339.81	

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	-4,650.5	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	-3,050.5	0.0	0.0	0.00	0.00	0.00	0.00	
3,150.0	31.00	250.01	3,075.5	-1,575.0	-139.9	-384.5	2.00	2.00	0.00	250.01	
3,374.8	31.29	241.33	3,268.0	-1,382.5	-187.7	-490.2	2.00	0.13	-3.86	270.00	
3,385.4	31.50	241.33	3,277.0	-1,373.5	-190.4	-495.1	2.00	2.00	0.00	0.00	
4,735.8	31.50	241.33	4,428.4	-222.1	-528.9	-1,114.2	0.00	0.00	0.00	0.00	
6,311.0	0.00	0.00	5,925.4	1,274.9	-731.5	-1,484.7	2.00	-2.00	0.00	180.00	
6,341.0	0.00	0.00	5,955.4	1,304.9	-731.5	-1,484.7	0.00	0.00	0.00	0.00	KOP - CHESNUT 2
7,474.6	90.69	0.00	6,671.5	2,021.0	-6.7	-1,484.7	8.00	8.00	0.00	0.00	
11,518.2	90.70	360.00	6,622.5	1,972.0	4,036.6	-1,484.7	0.00	0.00	0.00	-3.87	BHL - CHESNUT 2

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CHESNUT 21Y-404
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4650.5usft
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4650.5usft
Site:	SE SE SEC. 21 T5N R64W 6th P.M.	North Reference:	True
Well:	CHESNUT 21Y-404	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

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	4,650.50	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,550.50	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,450.50	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,350.50	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,250.50	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,150.50	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,050.50	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,950.50	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,850.50	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,750.50	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,650.50	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,550.50	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,450.50	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,350.50	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,250.50	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,150.50	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
1,600.0	0.00	0.00	1,600.0	3,050.50	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	2.00	250.01	1,700.0	2,950.52	-0.6	-1.6	0.0	2.00	2.00	0.00
1,800.0	4.00	250.01	1,799.8	2,850.66	-2.4	-6.6	0.0	2.00	2.00	0.00
1,900.0	6.00	250.01	1,899.5	2,751.05	-5.4	-14.7	0.1	2.00	2.00	0.00
2,000.0	8.00	250.01	1,998.7	2,651.80	-9.5	-26.2	0.1	2.00	2.00	0.00
2,100.0	10.00	250.01	2,097.5	2,553.03	-14.9	-40.9	0.2	2.00	2.00	0.00
2,200.0	12.00	250.01	2,195.6	2,454.88	-21.4	-58.8	0.2	2.00	2.00	0.00
2,300.0	14.00	250.01	2,293.1	2,357.44	-29.1	-80.0	0.3	2.00	2.00	0.00
2,400.0	16.00	250.01	2,389.6	2,260.86	-37.9	-104.3	0.4	2.00	2.00	0.00
2,500.0	18.00	250.01	2,485.3	2,165.23	-47.9	-131.8	0.5	2.00	2.00	0.00
2,600.0	20.00	250.01	2,579.8	2,070.68	-59.1	-162.4	0.6	2.00	2.00	0.00
2,700.0	22.00	250.01	2,673.2	1,977.33	-71.3	-196.0	0.7	2.00	2.00	0.00
2,800.0	24.00	250.01	2,765.2	1,885.29	-84.7	-232.8	0.9	2.00	2.00	0.00
2,900.0	26.00	250.01	2,855.8	1,794.66	-99.1	-272.5	1.0	2.00	2.00	0.00
3,000.0	28.00	250.01	2,944.9	1,705.56	-114.6	-315.1	1.2	2.00	2.00	0.00
3,100.0	30.00	250.01	3,032.4	1,618.11	-131.2	-360.7	1.4	2.00	2.00	0.00
EOB TO 31° INC										
3,150.0	31.00	250.01	3,075.5	1,575.02	-139.9	-384.5	1.5	2.00	2.00	0.00
3,200.0	31.01	248.07	3,118.3	1,532.17	-149.1	-408.6	1.1	2.00	0.03	-3.88
3,300.0	31.13	244.20	3,204.0	1,446.51	-170.0	-455.8	-2.2	2.00	0.12	-3.87
EOB & T TO 31.29° INC & 241.33° AZ										
3,374.8	31.29	241.33	3,268.0	1,382.53	-187.7	-490.2	-6.9	2.00	0.22	-3.84
EOB TO 31.5° INC										
3,385.4	31.50	241.33	3,277.0	1,373.48	-190.4	-495.1	-7.8	2.00	2.00	0.00
3,400.0	31.50	241.33	3,289.5	1,361.04	-194.0	-501.8	-8.9	0.00	0.00	0.00
3,500.0	31.50	241.33	3,374.7	1,275.77	-219.1	-547.6	-16.6	0.00	0.00	0.00
3,600.0	31.50	241.33	3,460.0	1,190.51	-244.2	-593.5	-24.3	0.00	0.00	0.00
3,700.0	31.50	241.33	3,545.2	1,105.25	-269.2	-639.3	-32.0	0.00	0.00	0.00
3,800.0	31.50	241.33	3,630.5	1,019.99	-294.3	-685.1	-39.7	0.00	0.00	0.00
3,900.0	31.50	241.33	3,715.8	934.73	-319.4	-731.0	-47.4	0.00	0.00	0.00
4,000.0	31.50	241.33	3,801.0	849.47	-344.4	-776.8	-55.1	0.00	0.00	0.00
4,100.0	31.50	241.33	3,886.3	764.21	-369.5	-822.7	-62.8	0.00	0.00	0.00
4,200.0	31.50	241.33	3,971.5	678.95	-394.6	-868.5	-70.5	0.00	0.00	0.00
4,300.0	31.50	241.33	4,056.8	593.69	-419.7	-914.4	-78.2	0.00	0.00	0.00
4,400.0	31.50	241.33	4,142.1	508.43	-444.7	-960.2	-85.9	0.00	0.00	0.00
4,500.0	31.50	241.33	4,227.3	423.17	-469.8	-1,006.1	-93.6	0.00	0.00	0.00
4,600.0	31.50	241.33	4,312.6	337.91	-494.9	-1,051.9	-101.3	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CHESNUT 21Y-404
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4650.5usft
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4650.5usft
Site:	SE SE SEC. 21 T5N R64W 6th P.M.	North Reference:	True
Well:	CHESNUT 21Y-404	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

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	31.50	241.33	4,397.8	252.65	-519.9	-1,097.8	-109.0	0.00	0.00	0.00
END OF TANGENT										
4,735.8	31.50	241.33	4,428.4	222.13	-528.9	-1,114.2	-111.8	0.00	0.00	0.00
4,800.0	30.22	241.33	4,483.5	167.02	-544.7	-1,143.1	-116.6	2.00	-2.00	0.00
4,900.0	28.22	241.33	4,570.8	79.75	-568.1	-1,185.9	-123.8	2.00	-2.00	0.00
5,000.0	26.22	241.33	4,659.7	-9.17	-590.1	-1,226.1	-130.6	2.00	-2.00	0.00
5,100.0	24.22	241.33	4,750.1	-99.63	-610.5	-1,263.4	-136.8	2.00	-2.00	0.00
5,200.0	22.22	241.33	4,842.0	-191.53	-629.4	-1,298.0	-142.6	2.00	-2.00	0.00
5,300.0	20.22	241.33	4,935.2	-284.74	-646.8	-1,329.8	-148.0	2.00	-2.00	0.00
5,400.0	18.22	241.33	5,029.7	-379.17	-662.6	-1,358.7	-152.8	2.00	-2.00	0.00
5,500.0	16.22	241.33	5,125.2	-474.68	-676.8	-1,384.6	-157.2	2.00	-2.00	0.00
5,600.0	14.22	241.33	5,221.7	-571.17	-689.4	-1,407.7	-161.1	2.00	-2.00	0.00
5,700.0	12.22	241.33	5,319.0	-668.51	-700.4	-1,427.7	-164.4	2.00	-2.00	0.00
5,800.0	10.22	241.33	5,417.1	-766.59	-709.7	-1,444.8	-167.3	2.00	-2.00	0.00
5,900.0	8.22	241.33	5,515.8	-865.30	-717.4	-1,458.9	-169.7	2.00	-2.00	0.00
6,000.0	6.22	241.33	5,615.0	-964.50	-723.4	-1,469.9	-171.5	2.00	-2.00	0.00
6,100.0	4.22	241.33	5,714.6	-1,064.08	-727.8	-1,477.9	-172.9	2.00	-2.00	0.00
6,200.0	2.22	241.33	5,814.4	-1,163.92	-730.5	-1,482.8	-173.7	2.00	-2.00	0.00
6,300.0	0.22	241.33	5,914.4	-1,263.89	-731.5	-1,484.7	-174.0	2.00	-2.00	0.00
EOD TO VERTICAL										
6,311.0	0.00	241.33	5,925.4	-1,274.89	-731.5	-1,484.7	-174.0	2.00	-2.00	0.00
KOP (8°/100ft BUR)										
6,341.0	0.00	0.00	5,955.4	-1,304.89	-731.5	-1,484.7	-174.0	0.00	0.00	0.00
6,400.0	4.72	0.00	6,014.3	-1,363.82	-729.1	-1,484.7	-171.7	8.00	8.00	0.00
6,500.0	12.72	0.00	6,113.1	-1,462.59	-713.9	-1,484.7	-157.5	8.00	8.00	0.00
6,600.0	20.72	0.00	6,208.8	-1,558.28	-685.2	-1,484.7	-130.5	8.00	8.00	0.00
6,700.0	28.72	0.00	6,299.5	-1,649.04	-643.4	-1,484.7	-91.3	8.00	8.00	0.00
6,800.0	36.72	0.00	6,383.6	-1,733.11	-589.4	-1,484.7	-40.6	8.00	8.00	0.00
6,900.0	44.72	0.00	6,459.3	-1,808.84	-524.2	-1,484.7	20.5	8.00	8.00	0.00
7,000.0	52.72	0.00	6,525.3	-1,874.76	-449.1	-1,484.7	91.0	8.00	8.00	0.00
7,100.0	60.72	0.00	6,580.1	-1,929.59	-365.6	-1,484.7	169.4	8.00	8.00	0.00
7,200.0	68.72	0.00	6,622.8	-1,972.26	-275.2	-1,484.7	254.2	8.00	8.00	0.00
7,300.0	76.72	0.00	6,652.4	-2,001.94	-179.8	-1,484.7	343.8	8.00	8.00	0.00
7,400.0	84.72	0.00	6,668.6	-2,018.06	-81.2	-1,484.7	436.3	8.00	8.00	0.00
7" ICP - CHESNUT 21Y-404 (P3)										
7,474.6	90.69	0.00	6,671.5	-2,021.05	-6.7	-1,484.7	506.2	8.00	8.00	0.00
7,500.0	90.69	360.00	6,671.2	-2,020.74	18.7	-1,484.7	530.1	0.01	0.01	0.00
7,600.0	90.69	360.00	6,670.0	-2,019.54	118.7	-1,484.7	623.9	0.00	0.00	0.00
7,700.0	90.69	360.00	6,668.8	-2,018.33	218.7	-1,484.7	717.8	0.00	0.00	0.00
7,800.0	90.69	360.00	6,667.6	-2,017.12	318.7	-1,484.7	811.6	0.00	0.00	0.00
7,900.0	90.69	360.00	6,666.4	-2,015.92	418.7	-1,484.7	905.4	0.00	0.00	0.00
8,000.0	90.69	360.00	6,665.2	-2,014.71	518.7	-1,484.7	999.3	0.00	0.00	0.00
8,100.0	90.69	360.00	6,664.0	-2,013.51	618.6	-1,484.7	1,093.1	0.00	0.00	0.00
8,200.0	90.69	360.00	6,662.8	-2,012.30	718.6	-1,484.7	1,187.0	0.00	0.00	0.00
8,300.0	90.69	360.00	6,661.6	-2,011.09	818.6	-1,484.7	1,280.8	0.00	0.00	0.00
8,400.0	90.69	360.00	6,660.4	-2,009.88	918.6	-1,484.7	1,374.7	0.00	0.00	0.00
8,500.0	90.69	360.00	6,659.2	-2,008.67	1,018.6	-1,484.7	1,468.5	0.00	0.00	0.00
8,600.0	90.69	360.00	6,658.0	-2,007.47	1,118.6	-1,484.7	1,562.4	0.00	0.00	0.00
8,700.0	90.69	360.00	6,656.8	-2,006.26	1,218.6	-1,484.7	1,656.2	0.00	0.00	0.00
8,800.0	90.69	360.00	6,655.5	-2,005.05	1,318.6	-1,484.7	1,750.1	0.00	0.00	0.00
8,900.0	90.69	360.00	6,654.3	-2,003.84	1,418.6	-1,484.7	1,843.9	0.00	0.00	0.00
9,000.0	90.69	360.00	6,653.1	-2,002.63	1,518.6	-1,484.7	1,937.8	0.00	0.00	0.00
9,100.0	90.69	360.00	6,651.9	-2,001.42	1,618.6	-1,484.7	2,031.6	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well CHESNUT 21Y-404
Company:	PDC ENERGY	TVD Reference:	KB-EST @ 4650.5usft
Project:	WELD COUNTY, COLORADO	MD Reference:	KB-EST @ 4650.5usft
Site:	SE SE SEC. 21 T5N R64W 6th P.M.	North Reference:	True
Well:	CHESNUT 21Y-404	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #3		

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)
9,200.0	90.69	360.00	6,650.7	-2,000.20	1,718.6	-1,484.7	2,125.4	0.00	0.00	0.00
9,300.0	90.69	360.00	6,649.5	-1,998.99	1,818.6	-1,484.7	2,219.3	0.00	0.00	0.00
9,400.0	90.69	360.00	6,648.3	-1,997.78	1,918.5	-1,484.7	2,313.1	0.00	0.00	0.00
9,500.0	90.69	360.00	6,647.1	-1,996.57	2,018.5	-1,484.7	2,407.0	0.00	0.00	0.00
9,600.0	90.70	360.00	6,645.9	-1,995.35	2,118.5	-1,484.7	2,500.8	0.00	0.00	0.00
9,700.0	90.70	360.00	6,644.6	-1,994.14	2,218.5	-1,484.7	2,594.7	0.00	0.00	0.00
9,800.0	90.70	360.00	6,643.4	-1,992.93	2,318.5	-1,484.7	2,688.5	0.00	0.00	0.00
9,900.0	90.70	360.00	6,642.2	-1,991.71	2,418.5	-1,484.7	2,782.4	0.00	0.00	0.00
10,000.0	90.70	360.00	6,641.0	-1,990.50	2,518.5	-1,484.7	2,876.2	0.00	0.00	0.00
10,100.0	90.70	360.00	6,639.8	-1,989.28	2,618.5	-1,484.7	2,970.1	0.00	0.00	0.00
10,200.0	90.70	360.00	6,638.6	-1,988.07	2,718.5	-1,484.7	3,063.9	0.00	0.00	0.00
10,300.0	90.70	360.00	6,637.3	-1,986.85	2,818.5	-1,484.7	3,157.8	0.00	0.00	0.00
10,400.0	90.70	360.00	6,636.1	-1,985.63	2,918.5	-1,484.7	3,251.6	0.00	0.00	0.00
10,500.0	90.70	360.00	6,634.9	-1,984.42	3,018.5	-1,484.7	3,345.4	0.00	0.00	0.00
10,600.0	90.70	360.00	6,633.7	-1,983.20	3,118.5	-1,484.7	3,439.3	0.00	0.00	0.00
10,700.0	90.70	360.00	6,632.5	-1,981.98	3,218.5	-1,484.7	3,533.1	0.00	0.00	0.00
10,800.0	90.70	360.00	6,631.3	-1,980.76	3,318.4	-1,484.7	3,627.0	0.00	0.00	0.00
10,900.0	90.70	360.00	6,630.0	-1,979.54	3,418.4	-1,484.7	3,720.8	0.00	0.00	0.00
11,000.0	90.70	360.00	6,628.8	-1,978.32	3,518.4	-1,484.7	3,814.7	0.00	0.00	0.00
11,100.0	90.70	360.00	6,627.6	-1,977.11	3,618.4	-1,484.7	3,908.5	0.00	0.00	0.00
11,200.0	90.70	360.00	6,626.4	-1,975.89	3,718.4	-1,484.7	4,002.4	0.00	0.00	0.00
11,300.0	90.70	360.00	6,625.2	-1,974.66	3,818.4	-1,484.7	4,096.2	0.00	0.00	0.00
11,400.0	90.70	360.00	6,623.9	-1,973.44	3,918.4	-1,484.7	4,190.1	0.00	0.00	0.00
11,500.0	90.70	360.00	6,622.7	-1,972.22	4,018.4	-1,484.7	4,283.9	0.00	0.00	0.00
BHL - CHESNUT 21Y-404 (P3)										
11,518.2	90.70	360.00	6,622.5	-1,972.00	4,036.6	-1,484.7	4,301.0	0.00	0.00	0.00

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.0	1,600.0	0.0	0.0	START NUDGE (2°/100ft BUR)
3,150.0	3,075.5	-139.9	-384.5	EOB TO 31° INC
3,374.8	3,268.0	-187.7	-490.2	EOB & T TO 31.29° INC & 241.33° AZ
3,385.4	3,277.0	-190.4	-495.1	EOB TO 31.5° INC
4,735.8	4,428.4	-528.9	-1,114.2	END OF TANGENT
6,311.0	5,925.4	-731.5	-1,484.7	EOD TO VERTICAL
6,341.0	5,955.4	-731.5	-1,484.7	KOP (8°/100ft BUR)
7,474.6	6,671.5	-6.7	-1,484.7	7" ICP - CHESNUT 21Y-404 (P3)
11,518.2	6,622.5	4,036.6	-1,484.7	BHL - CHESNUT 21Y-404 (P3)