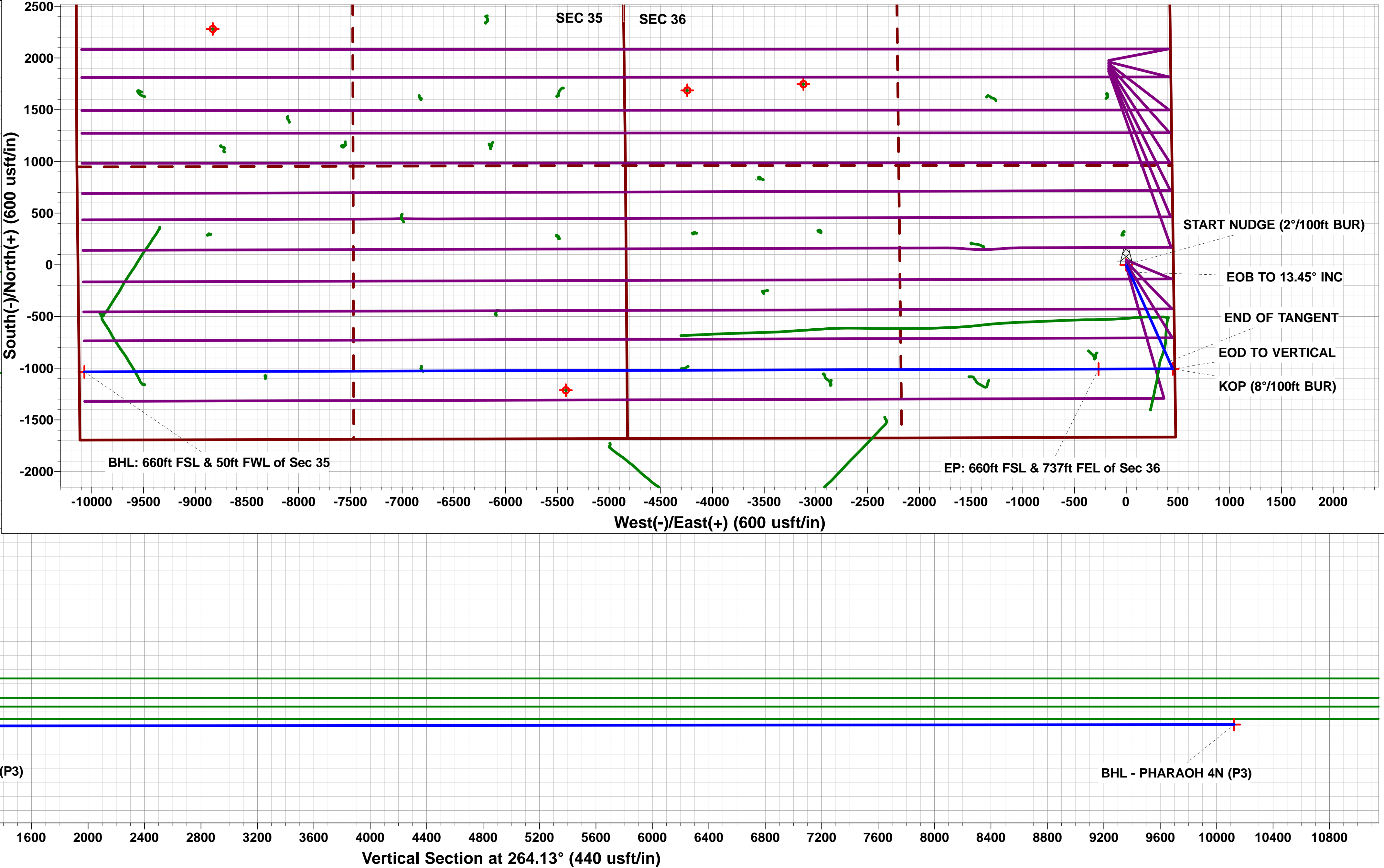
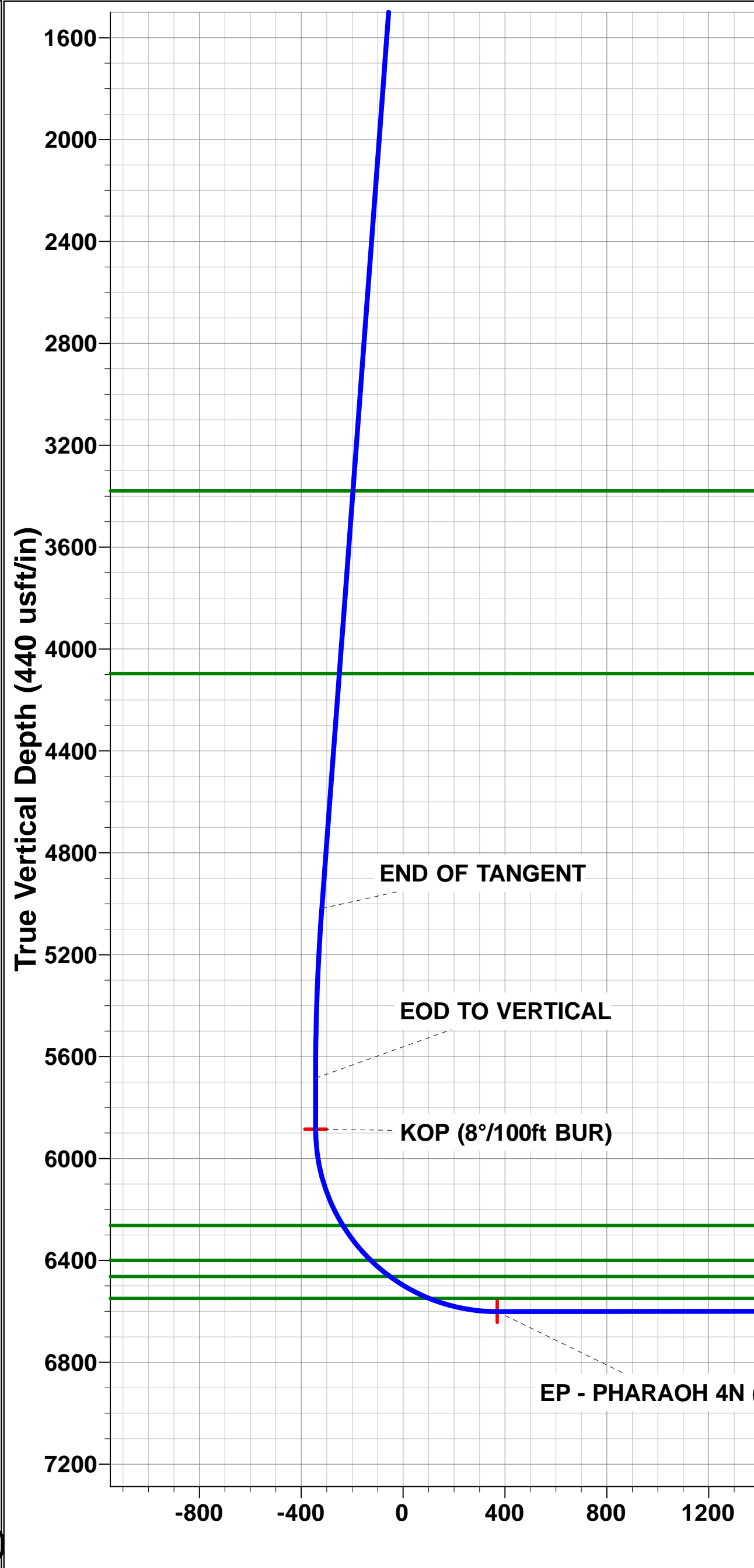
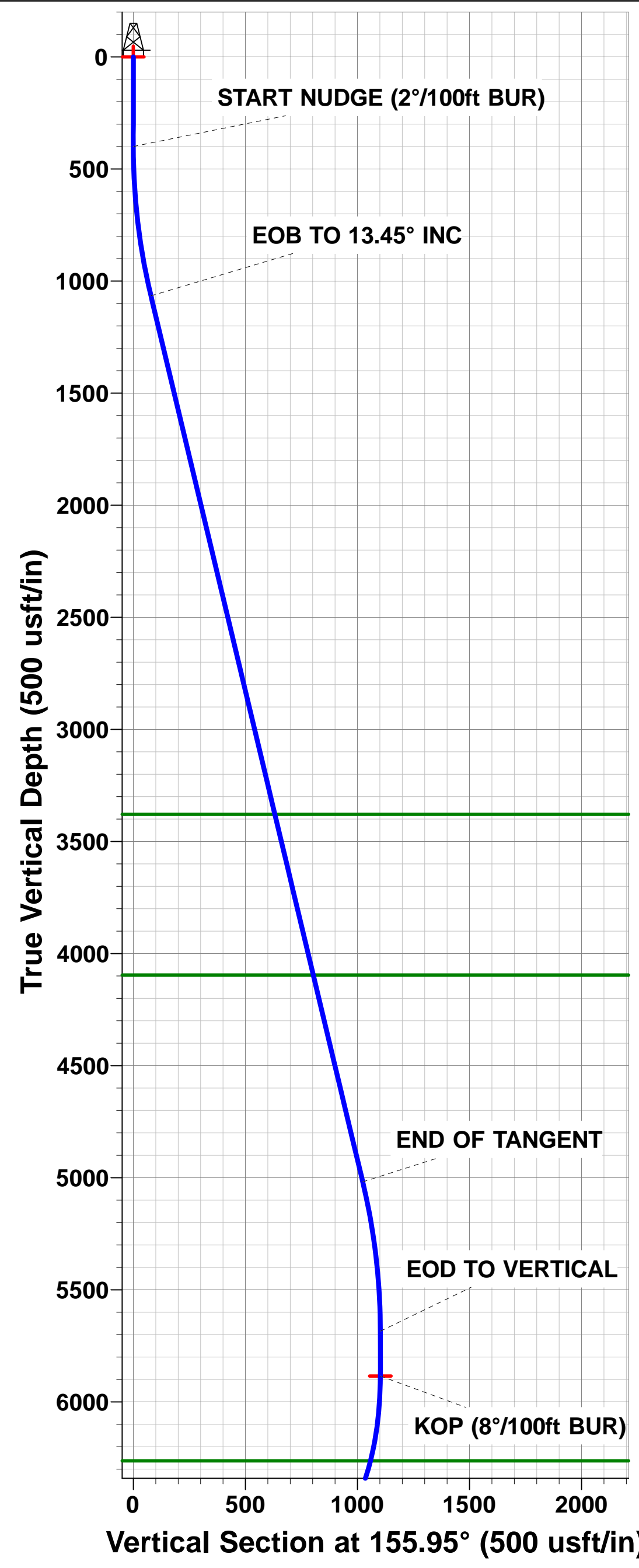
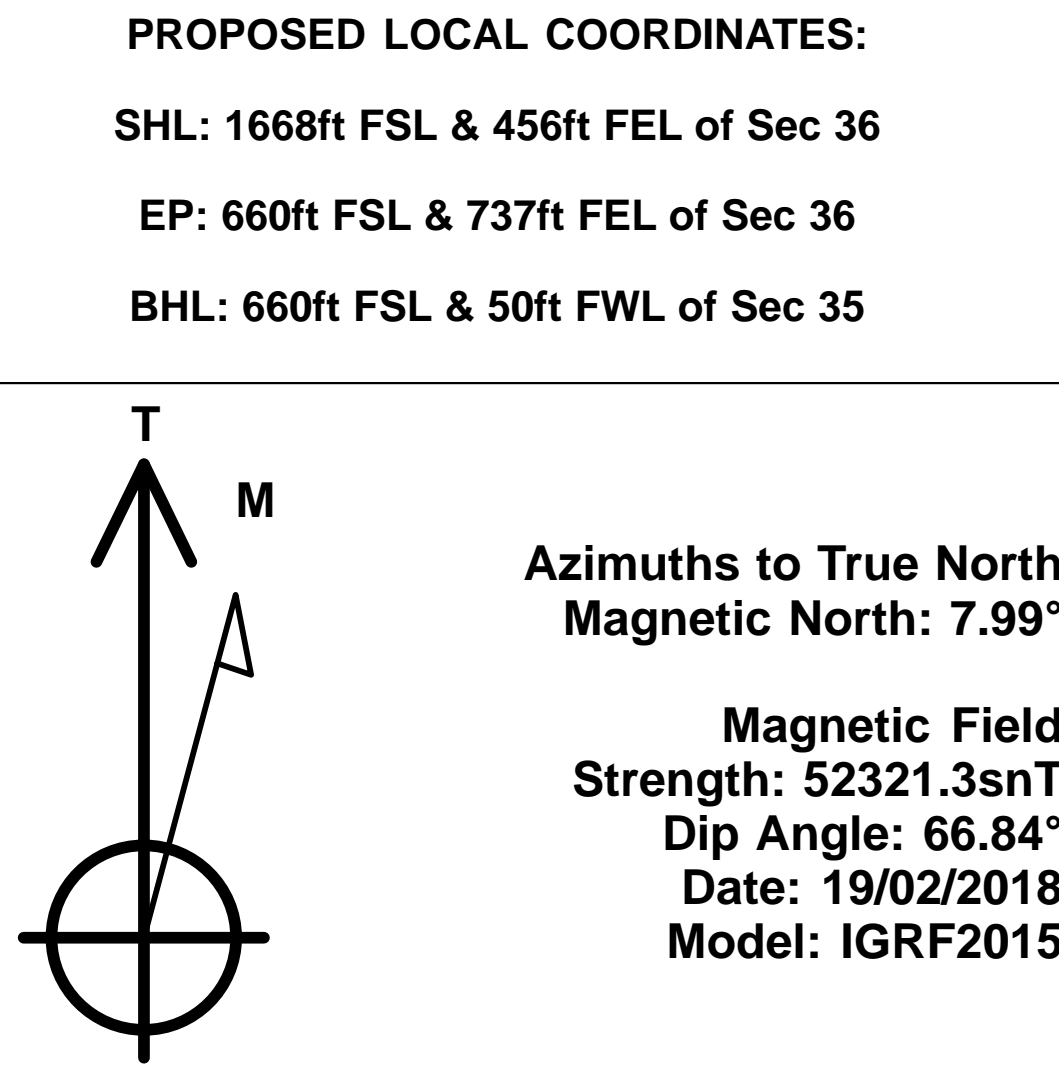
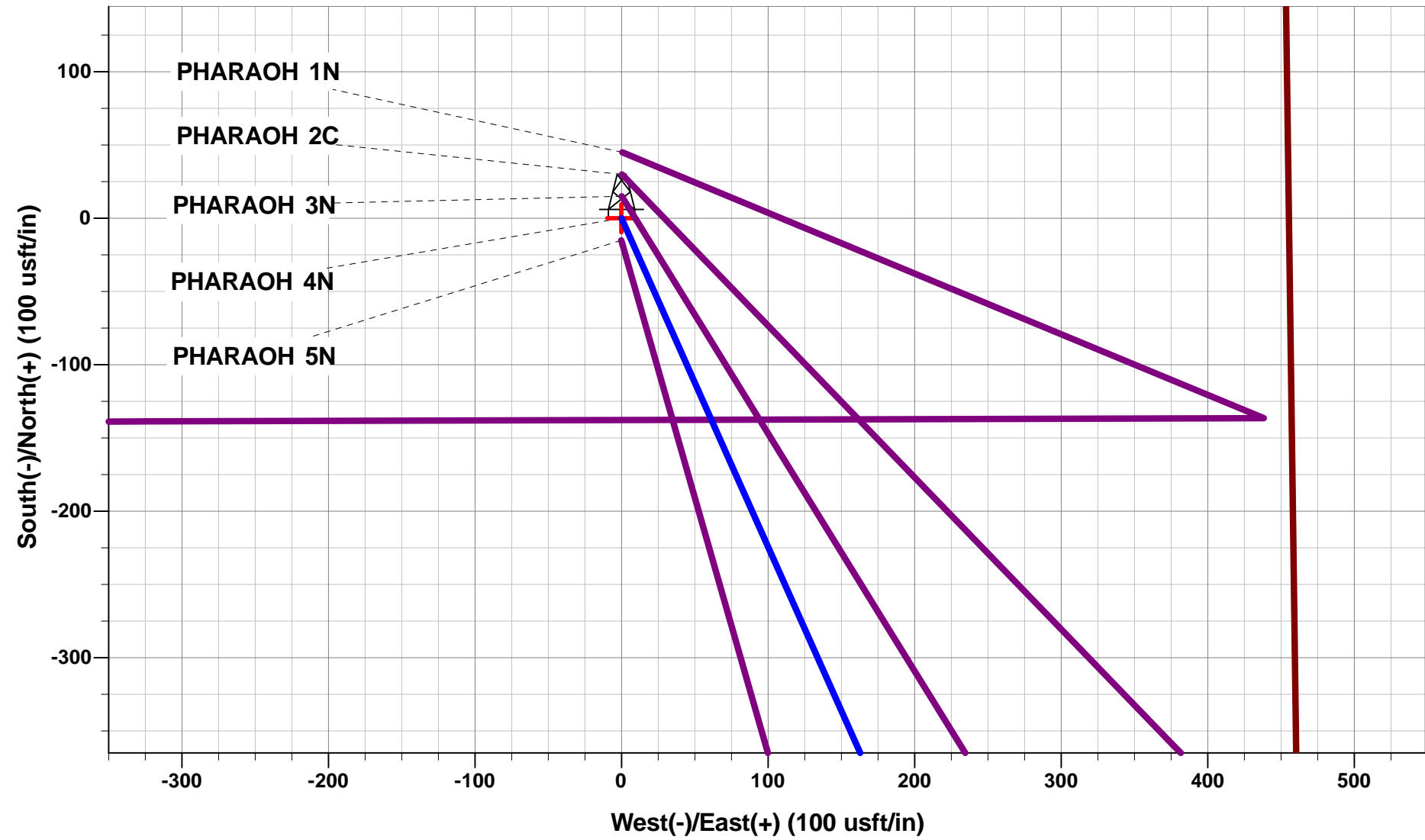




Project: WELD COUNTY, COLORADO (TRUE)  
Site: NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)  
Well: PHARAOH 4N  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #3

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 1668ft FSL & 456ft FEL of Sec 36	
400.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)	
1066.23	1072.39	13.45	155.95	-71.73	32.00	-24.50	78.55	EOB TO 13.45° INC	
5018.57	5136.14	13.45	155.95	-934.78	417.08	-319.28	1023.60	END OF TANGENT	
5684.80	5808.53	0.00	0.00	-1006.51	449.08	-343.78	1102.15	EOD TO VERTICAL	
5884.80	6008.53	0.00	0.00	-1006.51	449.08	-343.78	1102.15	KOP (8°/100ft BUR)	
6601.00	7134.27	90.06	269.84	-1008.50	-267.85	369.60	1819.08	EP: 660ft FSL & 737ft FEL of Sec 36	
6590.00	16937.65	90.07	269.84	-1035.52	-10071.19	10124.29	11622.46	BHL: 660ft FSL & 50ft FWL of Sec 35	

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - PHARAOH 4N (P3)	5884.80	-1006.51	449.08	40.350499	-104.488303
EP - PHARAOH 4N (P3)	6601.00	-1008.50	-267.86	40.350493	-104.490875
BHL - PHARAOH 4N (P3)	6590.00	-1035.52	-10071.19	40.350414	-104.526047
SHL - PHARAOH 4N (P3)	0.00	0.00	0.00	40.353262	-104.489914
Point					



# **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)**

**NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)**

**PHARAOH 4N**

**ORIGINAL WELLBORE**

**PROPOSAL #3**

## **Anticollision Report**

**08 May, 2018**



## Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well PHARAOH 4N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB-EST @ 4616.00usft (Original Well Elev)
<b>Reference Site:</b>	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	<b>MD Reference:</b>	KB-EST @ 4616.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PHARAOH 4N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #3	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #3		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.00 usft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	08/05/2018		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	16,937.66	PROPOSAL #3 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)						
PHARAOH 1N - ORIGINAL WELLBORE - PROPOSAL #	400.00	400.00	45.01	43.49	29.578	CC, ES
PHARAOH 1N - ORIGINAL WELLBORE - PROPOSAL #	16,937.65	16,853.01	870.08	290.75	1.502	SF
PHARAOH 2C - ORIGINAL WELLBORE - PROPOSAL #	400.00	400.00	29.99	28.47	19.708	CC
PHARAOH 2C - ORIGINAL WELLBORE - PROPOSAL #	16,937.65	16,929.74	583.78	7.89	1.014	Level 2, ES, SF
PHARAOH 3N - ORIGINAL WELLBORE - PROPOSAL #	400.00	400.00	15.01	13.49	9.867	CC
PHARAOH 3N - ORIGINAL WELLBORE - PROPOSAL #	16,937.65	16,826.66	309.01	-253.87	0.549	Level 1, ES, SF
PHARAOH 5N - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.00	15.01	13.94	14.001	CC
PHARAOH 5N - ORIGINAL WELLBORE - PROPOSAL #	16,937.65	16,832.70	294.47	-266.49	0.525	Level 1, ES, SF
SE NE SEC. 36 T5N R64W 6th P.M. (PYRAMID)						
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,340.17	6,588.32	1,276.36	1,114.16	7.869	CC
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,400.00	6,588.15	1,277.77	1,113.88	7.797	ES
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,600.00	6,587.60	1,302.54	1,133.07	7.686	SF
ABDN VERT ROTHE STATE B #36-15 - Wellbore #1 - W	8,194.83	6,550.00	110.45	62.27	2.292	CC
ABDN VERT ROTHE STATE B #36-15 - Wellbore #1 - W	8,200.00	6,550.00	110.57	62.26	2.289	ES, SF
ABDN VERT ROTHE STATE B #36-16 - Wellbore #1 - W	7,148.34	6,550.00	159.07	135.79	6.834	CC, ES, SF
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,102.40	6,570.77	2,706.01	2,448.95	10.527	CC
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,200.00	6,570.66	2,707.77	2,447.99	10.423	ES
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,900.00	6,569.88	2,821.11	2,541.81	10.101	SF
EXIST DD ECKHARDT B #35-12 - Wellbore #1 - Wellbor	16,206.63	6,710.22	1,392.69	1,120.67	5.120	CC, ES
EXIST DD ECKHARDT B #35-12 - Wellbore #1 - Wellbor	16,400.00	6,710.78	1,406.05	1,128.60	5.068	SF
EXIST DD ECKHARDT B #35-13 - Wellbore #1 - Wellbor	16,357.49	6,691.16	122.88	-153.07	0.445	Level 1, CC, ES, SF
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,199.46	6,761.59	470.04	377.28	5.067	CC
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,200.00	6,761.59	470.04	377.27	5.067	ES
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,300.00	6,762.36	480.67	385.17	5.033	SF
EXIST DD MARLEY C #1-30D - Wellbore #1 - Wellbore #	11,859.67	6,678.86	705.14	541.12	4.299	CC, ES
EXIST DD MARLEY C #1-30D - Wellbore #1 - Wellbore #	11,900.00	6,678.85	706.30	541.15	4.277	SF
EXIST HZ SOONER STATE B #36-63HN - Wellbore #1 -	4,167.51	4,172.56	57.59	25.89	1.817	CC, ES
EXIST HZ SOONER STATE B #36-63HN - Wellbore #1 -	11,170.79	11,055.00	337.73	83.87	1.330	Level 3, SF
EXIST VERT BAKER STATE B #36-11 - Wellbore #1 - W	9,816.46	6,589.56	1,325.37	1,233.40	14.410	CC, ES
EXIST VERT BAKER STATE B #36-11 - Wellbore #1 - W	10,300.00	6,585.89	1,410.82	1,305.47	13.392	SF
EXIST VERT BAKER STATE B #36-12 - Wellbore #1 - W	11,013.03	6,597.31	1,324.76	1,199.57	10.582	CC, ES
EXIST VERT BAKER STATE B #36-12 - Wellbore #1 - W	11,400.00	6,596.03	1,380.12	1,244.14	10.150	SF
EXIST VERT BAKER STATE B #36-13 - Wellbore #1 - W	11,101.88	6,586.32	37.37	-90.30	0.293	Level 1, CC, ES, SF
EXIST VERT BAKER STATE B #36-14 - Wellbore #1 - W	9,717.88	6,593.98	100.76	11.53	1.129	Level 2, CC, ES, SF
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	10,370.19	6,550.00	1,839.74	1,732.45	17.147	CC

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well PHARAOH 4N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB-EST @ 4616.00usft (Original Well Elev)
<b>Reference Site:</b>	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	<b>MD Reference:</b>	KB-EST @ 4616.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PHARAOH 4N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #3	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SE NE SEC. 36 T5N R64W 6th P.M. (PYRAMID)						
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	10,400.00	6,550.00	1,839.98	1,731.86	17.018	ES
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	11,300.00	6,550.00	2,061.35	1,928.20	15.481	SF
EXIST VERT CLYNCKE STATE B #36-25 - Wellbore #1	10,329.20	6,550.00	769.06	663.00	7.251	CC, ES
EXIST VERT CLYNCKE STATE B #36-25 - Wellbore #1	10,500.00	6,550.00	787.80	677.00	7.110	SF
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,729.84	6,591.93	1,332.31	1,074.94	5.177	CC
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,800.00	6,591.42	1,334.16	1,074.82	5.145	ES
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,900.00	6,590.70	1,343.13	1,081.00	5.124	SF
EXIST VERT ECKHARDT B #35-33 - Wellbore #1 - Well	16,756.59	6,588.98	542.68	256.70	1.898	CC, ES
EXIST VERT ECKHARDT B #35-33 - Wellbore #1 - Well	16,800.00	6,589.89	544.41	257.21	1.896	SF
EXIST VERT HOSHIKO #2 - Wellbore #1 - Wellbore #1	13,678.21	6,630.81	41.93	-158.00	0.210	Level 1, CC, ES, SF
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	13,848.69	6,600.00	1,440.88	1,236.17	7.039	CC
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	13,900.00	6,600.00	1,441.80	1,235.65	6.994	ES
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	14,100.00	6,600.00	1,462.63	1,250.88	6.907	SF
EXIST VERT HOSHIKO #35-16H4 - Wellbore #1 - Desig	12,284.34	6,614.45	190.41	-99.06	0.658	Level 1, CC, ES, SF
EXIST VERT HOSHIKO B #35-14 - Wellbore #1 - Wellbo	15,187.63	6,617.89	42.28	-199.72	0.175	Level 1, CC, ES, SF
EXIST VERT HOSHIKO B #35-23 - Wellbore #1 - Wellbo	12,955.13	6,619.62	540.92	361.31	3.012	CC, ES
EXIST VERT HOSHIKO B #35-23 - Wellbore #1 - Wellbo	13,000.00	6,619.80	542.78	361.91	3.001	SF
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	14,951.35	6,564.29	2,416.14	2,180.62	10.259	CC
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	15,000.00	6,564.19	2,416.63	2,179.74	10.202	ES
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	15,600.00	6,563.01	2,501.69	2,247.98	9.860	SF
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	12,300.00	6,585.78	2,731.79	2,570.66	16.953	CC
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	12,400.00	6,585.63	2,733.63	2,569.70	16.675	ES
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	13,600.00	6,583.74	3,025.47	2,827.95	15.318	SF
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	13,693.13	6,549.01	2,662.76	2,462.40	13.290	CC
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	13,800.00	6,548.73	2,664.90	2,461.55	13.105	ES
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	14,700.00	6,546.21	2,846.76	2,618.19	12.455	SF
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	13,050.62	6,597.48	3,360.36	3,177.94	18.421	CC
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	13,100.00	6,597.21	3,360.72	3,176.92	18.285	ES
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	14,800.00	6,587.62	3,788.43	3,557.01	16.370	SF
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	15,687.65	6,619.50	3,312.92	2,928.10	8.609	CC
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	15,800.00	6,619.37	3,314.83	2,926.85	8.544	ES
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	16,500.00	6,618.53	3,411.06	3,003.47	8.369	SF
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	15,578.34	6,611.05	2,124.70	1,871.34	8.386	CC
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	15,600.00	6,610.92	2,124.81	1,870.85	8.367	ES
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	16,100.00	6,607.87	2,187.80	1,919.81	8.164	SF
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	14,410.16	6,515.28	2,216.96	1,996.95	10.077	CC
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	14,500.00	6,514.87	2,218.78	1,996.26	9.971	ES
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	15,000.00	6,512.56	2,294.08	2,057.56	9.699	SF
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	12,985.99	6,532.86	2,208.02	2,027.69	12.244	CC
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	13,000.00	6,532.66	2,208.07	2,027.34	12.218	ES
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	13,700.00	6,523.06	2,320.57	2,120.28	11.586	SF
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	8,243.72	6,550.00	1,190.47	1,141.27	24.200	CC
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	8,300.00	6,550.00	1,191.80	1,141.13	23.520	ES
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	9,000.00	6,550.00	1,410.38	1,340.91	20.302	SF
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	100.00	64.55	2,108.99	2,108.89	10,000.000	CC
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	402.31	376.96	2,109.40	2,108.29	1,901.496	ES
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	12,400.00	6,500.00	5,008.79	4,845.03	30.587	SF
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	100.00	70.49	1,656.79	1,656.69	10,000.000	CC
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	400.00	365.31	1,657.09	1,655.99	1,508.308	ES
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	16,700.00	6,500.00	9,992.46	9,708.22	35.155	SF
EXIST VERT ROTHE STATE B #36-9 - Wellbore #1 - We	402.34	377.57	289.57	288.52	275.026	CC, ES
EXIST VERT ROTHE STATE B #36-9 - Wellbore #1 - We	11,900.00	6,550.00	5,189.99	5,040.13	34.631	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well PHARAOH 4N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB-EST @ 4616.00usft (Original Well Elev)
<b>Reference Site:</b>	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	<b>MD Reference:</b>	KB-EST @ 4616.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PHARAOH 4N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #3	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SE NE SEC. 36 T5N R64W 6th P.M. (PYRAMID)						
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	9,979.35	6,585.99	2,763.21	2,538.18	12.279	CC
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	10,100.00	6,585.86	2,765.85	2,537.48	12.111	ES
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	10,900.00	6,584.99	2,912.55	2,661.99	11.624	SF
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,372.88	6,400.00	2,712.92	2,438.37	9.882	CC
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,400.00	6,400.00	2,713.05	2,437.75	9.855	ES
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,937.65	6,400.00	2,771.08	2,480.73	9.544	SF
PYRAMID 1N - ORIGINAL WELLBORE - PROPOSAL #1	400.00	395.00	1,983.32	1,981.81	1,313.083	CC, ES
PYRAMID 1N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	16,822.96	3,117.08	2,539.54	5.397	SF
PYRAMID 2N - ORIGINAL WELLBORE - PROPOSAL #1	400.00	395.00	1,968.37	1,966.86	1,303.187	CC, ES
PYRAMID 2N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	16,749.64	2,848.18	2,270.77	4.933	SF
PYRAMID 3N - ORIGINAL WELLBORE - PROPOSAL #1	400.00	395.00	1,953.43	1,951.92	1,293.297	CC
PYRAMID 3N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	16,841.50	2,527.05	1,949.58	4.376	ES, SF
PYRAMID 4N - ORIGINAL WELLBORE - PROPOSAL #1	400.00	395.00	1,938.53	1,937.02	1,283.431	CC
PYRAMID 4N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	16,782.43	2,308.57	1,731.68	4.002	ES, SF
PYRAMID 5N - ORIGINAL WELLBORE - PROPOSAL #1	400.00	395.00	1,923.59	1,922.08	1,273.542	CC
PYRAMID 5N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	16,900.03	2,017.03	1,439.64	3.493	ES, SF
PYRAMID 6N - ORIGINAL WELLBORE - PROPOSAL #1	4,673.04	5,100.00	1,666.06	1,635.16	53.911	CC
PYRAMID 6N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	16,897.00	1,727.04	1,150.16	2.994	ES, SF
PYRAMID 7N - ORIGINAL WELLBORE - PROPOSAL #1	4,816.27	5,251.74	1,434.06	1,401.62	44.213	CC
PYRAMID 7N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	17,030.92	1,470.10	892.39	2.545	ES, SF
PYRAMID 8N - ORIGINAL WELLBORE - PROPOSAL #1	4,834.00	5,300.00	1,134.32	1,100.51	33.548	CC
PYRAMID 8N - ORIGINAL WELLBORE - PROPOSAL #1	16,937.65	17,068.32	1,177.37	600.79	2.042	ES, SF

<b>Offset Design</b> NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH) - PHARAOH 1N - ORIGINAL WELLBORE - PROPO												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD												<b>Offset Well Error:</b>	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.67	45.00	0.53	45.01				
100.00	100.00	100.00	100.00	0.09	0.09	0.67	45.00	0.53	45.01	44.83	0.17	260.054	
200.00	200.00	200.00	200.00	0.31	0.31	0.67	45.00	0.53	45.01	44.38	0.62	72.289	
300.00	300.00	300.00	300.00	0.54	0.54	0.67	45.00	0.53	45.01	43.94	1.07	41.979	
400.00	400.00	400.00	400.00	0.76	0.76	0.67	45.00	0.53	45.01	43.49	1.52	29.578	CC, ES
500.00	499.98	499.98	499.98	0.96	0.99	-156.16	45.00	0.53	46.60	44.65	1.95	23.905	
600.00	599.84	599.84	599.84	1.16	1.21	-158.49	45.00	0.53	51.43	49.06	2.37	21.715	
700.00	699.45	699.45	699.45	1.38	1.43	-161.51	45.00	0.53	59.63	56.83	2.80	21.294	
800.00	798.70	798.70	798.70	1.64	1.66	-164.55	45.00	0.53	71.29	68.05	3.24	22.008	
900.00	897.47	897.47	897.47	1.95	1.88	-167.24	45.00	0.53	86.48	82.80	3.68	23.482	
1,000.00	995.62	995.62	995.62	2.32	2.10	-169.47	45.00	0.53	105.18	101.05	4.13	25.475	
1,072.38	1,066.23	1,066.23	1,066.23	2.62	2.26	-170.80	45.00	0.53	120.90	116.45	4.45	27.150	
1,100.00	1,093.09	1,093.09	1,093.09	2.74	2.32	-171.26	45.00	0.53	127.25	122.67	4.58	27.788	
1,200.00	1,190.34	1,190.34	1,190.34	3.19	2.54	-172.61	45.00	0.53	150.29	145.25	5.04	29.817	
1,300.00	1,287.60	1,287.60	1,287.60	3.66	2.76	-173.59	45.00	0.53	173.39	167.88	5.51	31.485	
1,400.00	1,384.86	1,384.86	1,384.86	4.14	2.97	-174.35	45.00	0.53	196.52	190.54	5.98	32.877	
1,500.00	1,482.12	1,482.12	1,482.12	4.62	3.19	-174.95	45.00	0.53	219.68	213.23	6.45	34.052	
1,600.00	1,579.38	1,579.38	1,579.38	5.11	3.41	-175.43	45.00	0.53	242.86	235.93	6.93	35.056	
1,700.00	1,676.64	1,681.74	1,681.73	5.60	3.63	-175.66	44.56	1.61	265.31	257.91	7.40	35.848	
1,800.00	1,773.89	1,786.45	1,786.32	6.09	3.83	-175.29	42.68	6.13	285.44	277.57	7.87	36.290	
1,900.00	1,871.15	1,891.98	1,891.47	6.59	4.04	-174.43	39.31	14.26	303.18	294.84	8.34	36.333	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation