



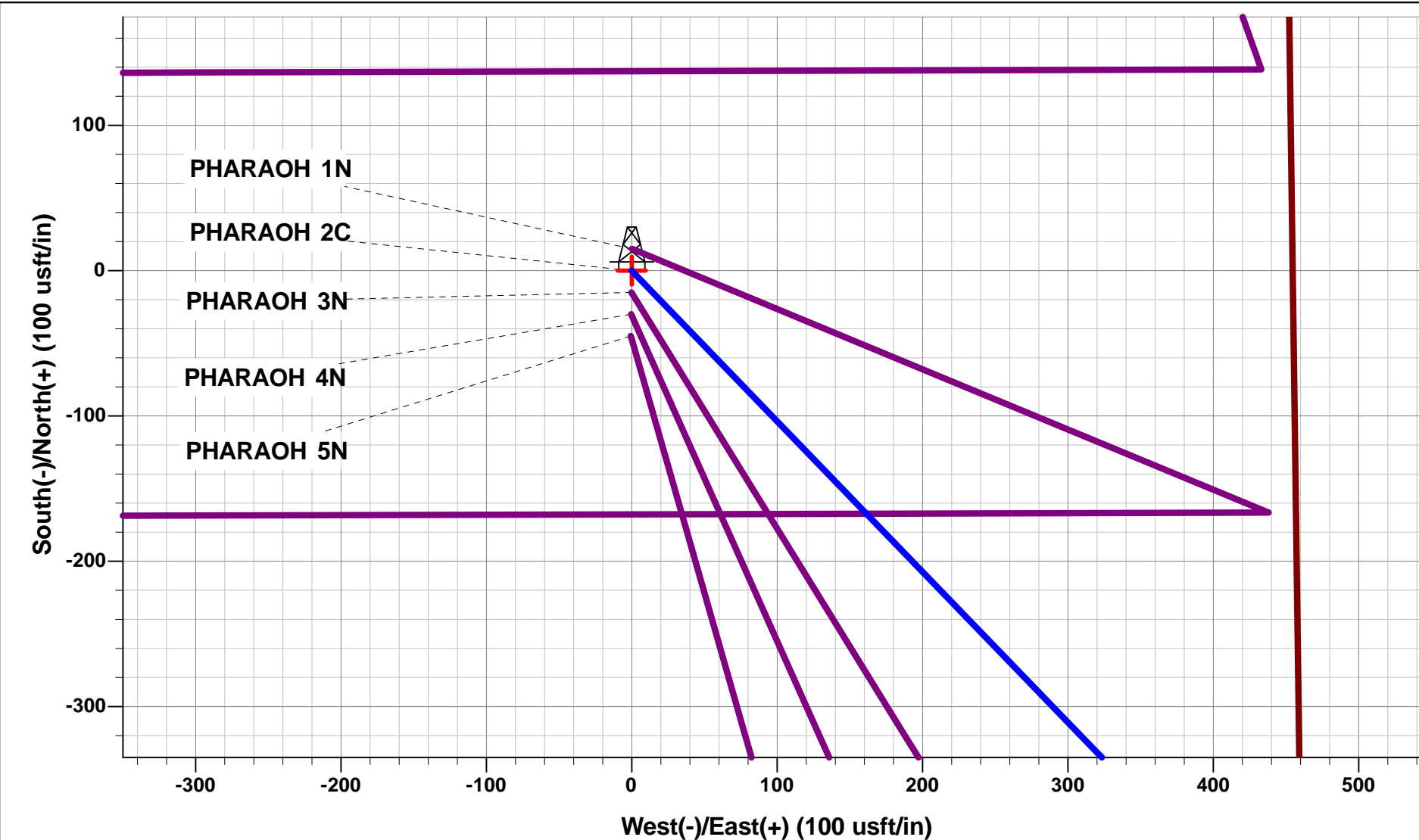
Project: WELD COUNTY, COLORADO (TRUE)
Site: NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)
Well: PHARAOH 2C
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 1698ft FSL & 455ft FEL of Sec 36
600.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
1195.62	1200.00	12.00	136.01	-45.04	43.48	-41.24	62.60	EOB TO 12° INC
3591.67	3649.58	12.00	136.01	-411.47	397.19	-376.74	571.90	END OF TANGENT
4187.30	4249.58	0.00	0.00	-456.51	440.67	-417.98	634.50	EOD TO VERTICAL
5944.80	6007.08	0.00	0.00	-456.51	440.67	-417.98	634.50	KOP (8°/100ft BUR)
6661.00	7132.46	90.03	269.84	-458.51	-275.90	297.84	1351.08	EP: 1240ft FSL & 737ft FEL of Sec 36
6656.00	16834.82	90.03	269.85	-485.06	-9978.22	9990.01	11053.43	BHL: 1240ft FSL & 150ft FWL of Sec 35

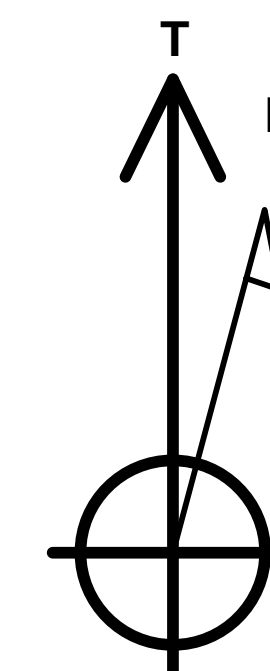
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - PHARAOH 2C	5944.80	-456.51	440.67	40.352091°N	104.488332°W
EP - PHARAOH 2C	6661.00	-458.51	-275.90	40.352085°N	104.490903°W
BHL - PHARAOH 2C (P2)	6656.00	-485.06	-9978.23	40.352007°N	104.525713°W
SHL - PHARAOH 2C	0.00	0.00	0.00	40.353344°N	104.489913°W



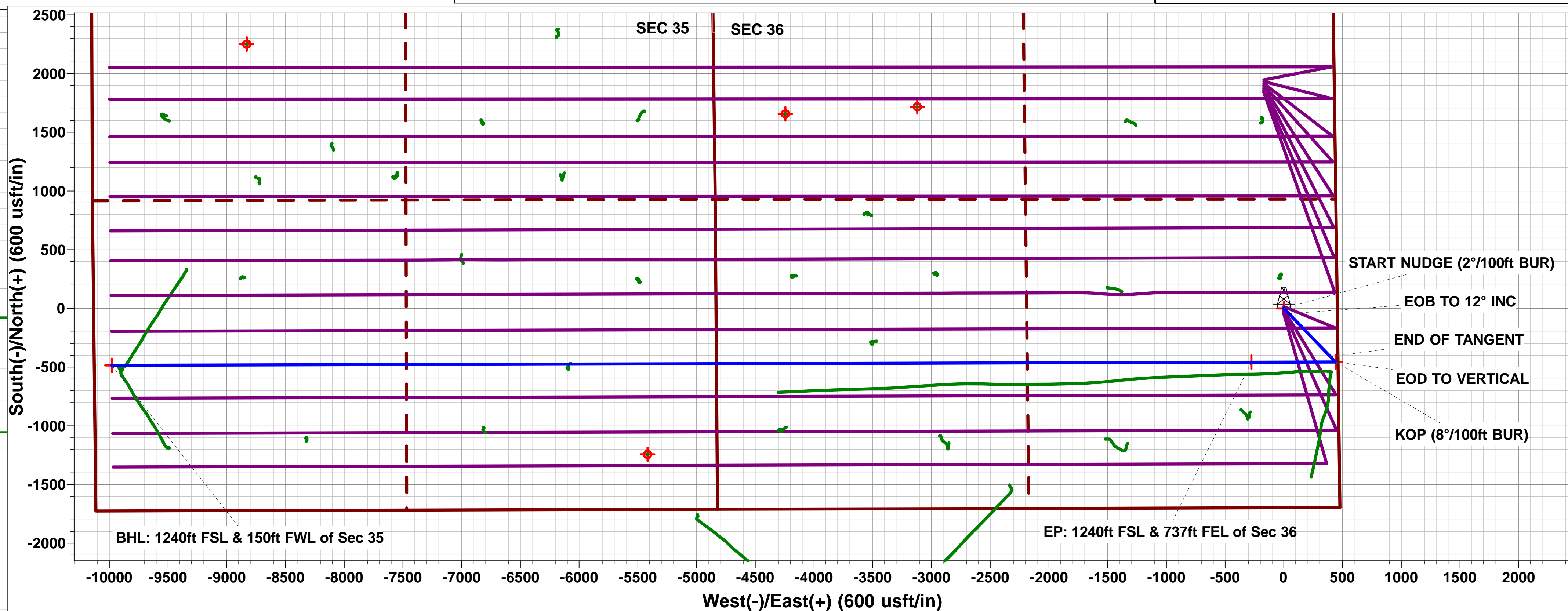
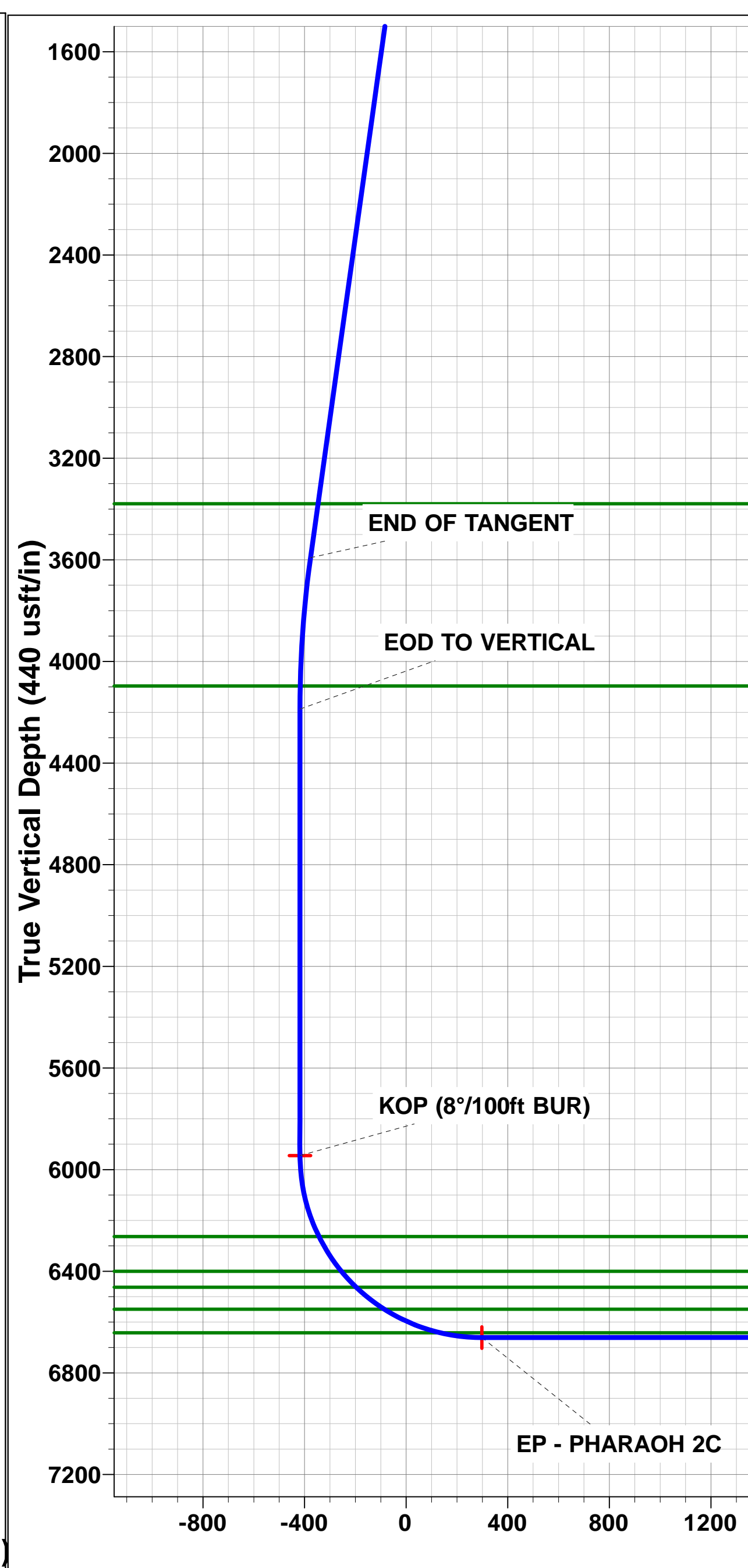
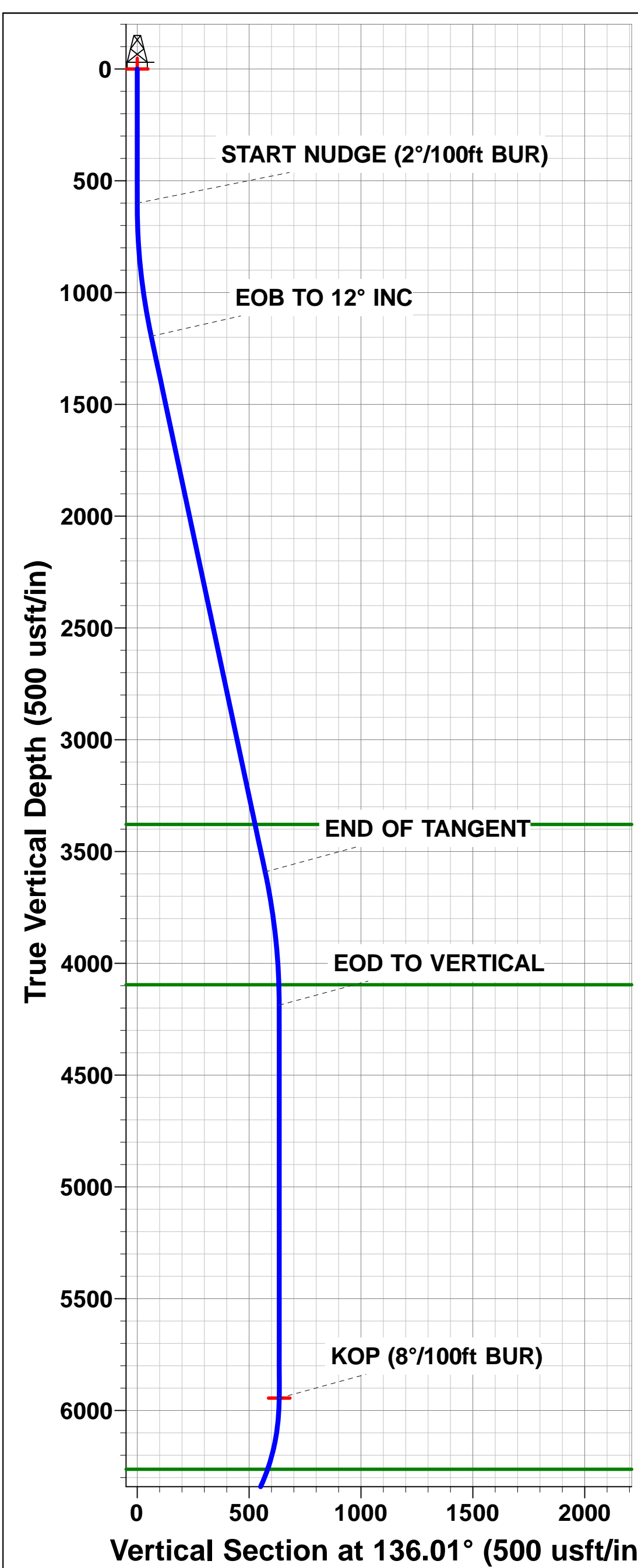
PROPOSED LOCAL COORDINATES:

SHL: 1698ft FSL & 455ft FEL of Sec 36
EP: 1240ft FSL & 737ft FEL of Sec 36
BHL: 1240ft FSL & 150ft FWL of Sec 35



Azimuths to True North
Magnetic North: 7.99°

Magnetic Field
Strength: 52321.3snT
Dip Angle: 66.84°
Date: 19/02/2018
Model: IGRF2015



BHL - PHARAOH 2C (P2)

PDC ENERGY

**WELD COUNTY, COLORADO (TRUE)
NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)
PHARAOH 2C**

**ORIGINAL WELLBORE
PROPOSAL #2**

Anticollision Report

01 February, 2019



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well PHARAOH 2C
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB-EST @ 4616.00usft (Original Well Elev)
Reference Site:	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	MD Reference:	KB-EST @ 4616.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PHARAOH 2C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	01/02/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,834.83	PROPOSAL #2 (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 #	600.00	600.00	15.02	12.60	6.204 CC	
PHARAOH 1N - ORIGINAL WELLBORE - PROPOSAL #	16,834.83	16,757.96	299.54	-257.79	0.537 Level 1, ES, SF	
PHARAOH 3N - ORIGINAL WELLBORE - PROPOSAL #	500.00	500.00	14.97	13.00	7.596 CC	
PHARAOH 3N - ORIGINAL WELLBORE - PROPOSAL #	16,834.83	16,729.39	313.20	-205.28	0.604 Level 1, ES, SF	
PHARAOH 4N - ORIGINAL WELLBORE - PROPOSAL #	400.00	400.00	29.99	28.47	19.708 CC	
PHARAOH 4N - ORIGINAL WELLBORE - PROPOSAL #	16,834.83	16,837.62	583.76	13.17	1.023 Level 2, ES, SF	
PHARAOH 5N - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.00	45.00	43.93	41.971 CC, ES	
PHARAOH 5N - ORIGINAL WELLBORE - PROPOSAL #	16,834.83	16,732.69	876.55	310.92	1.550 SF	
SE NE SEC. 36 T5N R64W 6th P.M. (PYRAMID)						
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,332.17	6,651.58	696.65	534.21	4.289 CC, ES	
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,400.00	6,651.51	699.94	535.60	4.259 SF	
ABDN VERT ROTHE STATE B #36-15 - Wellbore #1 - W	8,186.94	6,550.00	692.50	644.40	14.396 CC	
ABDN VERT ROTHE STATE B #36-15 - Wellbore #1 - W	8,200.00	6,550.00	692.62	644.18	14.297 ES	
ABDN VERT ROTHE STATE B #36-15 - Wellbore #1 - W	8,500.00	6,550.00	759.98	703.60	13.481 SF	
ABDN VERT ROTHE STATE B #36-16 - Wellbore #1 - W	7,140.45	6,550.00	432.27	408.74	18.368 CC, ES	
ABDN VERT ROTHE STATE B #36-16 - Wellbore #1 - W	7,300.00	6,550.00	460.78	434.14	17.301 SF	
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,094.51	6,632.93	2,125.99	1,867.49	8.224 CC	
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,200.00	6,632.88	2,128.61	1,867.16	8.142 ES	
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,600.00	6,632.67	2,185.26	1,912.65	8.016 SF	
EXIST DD ECKHARDT B #35-12 - Wellbore #1 - Wellbor	16,198.96	6,782.51	813.57	541.22	2.987 CC	
EXIST DD ECKHARDT B #35-12 - Wellbore #1 - Wellbor	16,200.00	6,782.52	813.57	541.19	2.987 ES	
EXIST DD ECKHARDT B #35-12 - Wellbore #1 - Wellbor	16,300.00	6,782.65	819.82	544.64	2.979 SF	
EXIST DD ECKHARDT B #35-13 - Wellbore #1 - Wellbor	16,349.28	6,747.51	703.94	427.71	2.548 CC, ES	
EXIST DD ECKHARDT B #35-13 - Wellbore #1 - Wellbor	16,400.00	6,747.31	705.76	428.12	2.542 SF	
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,192.51	6,848.37	1,047.75	954.74	11.265 CC	
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,200.00	6,848.48	1,047.78	954.57	11.241 ES	
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,500.00	6,852.87	1,091.93	990.48	10.763 SF	
EXIST DD MARLEY C #1-30D - Wellbore #1 - Wellbore #	11,851.87	6,742.75	1,284.70	1,120.34	7.816 CC	
EXIST DD MARLEY C #1-30D - Wellbore #1 - Wellbore #	11,900.00	6,742.89	1,285.60	1,119.89	7.758 ES	
EXIST DD MARLEY C #1-30D - Wellbore #1 - Wellbore #	12,100.00	6,743.48	1,308.44	1,137.14	7.638 SF	
EXIST HZ SOONER STATE B #36-63HN - Wellbore #1 -	5,880.64	5,938.26	92.01	58.81	2.771 CC	
EXIST HZ SOONER STATE B #36-63HN - Wellbore #1 -	11,100.00	10,979.75	265.68	33.98	1.147 Level 2, ES, SF	
EXIST VERT BAKER STATE B #36-11 - Wellbore #1 - W	9,808.50	6,600.00	746.52	654.55	8.117 CC, ES	
EXIST VERT BAKER STATE B #36-11 - Wellbore #1 - W	10,000.00	6,600.00	770.69	673.43	7.924 SF	
EXIST VERT BAKER STATE B #36-12 - Wellbore #1 - W	11,005.16	6,600.00	745.86	620.68	5.958 CC, ES	

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

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well PHARAOH 2C
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB-EST @ 4616.00usft (Original Well Elev)
Reference Site:	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	MD Reference:	KB-EST @ 4616.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PHARAOH 2C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	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 BAKER STATE B #36-12 - Wellbore #1 - W	11,100.00	6,600.00	751.87	624.04	5.882	SF
EXIST VERT BAKER STATE B #36-13 - Wellbore #1 - W	11,093.11	6,600.00	544.57	416.93	4.267	CC
EXIST VERT BAKER STATE B #36-13 - Wellbore #1 - W	11,100.00	6,600.00	544.61	416.78	4.261	ES
EXIST VERT BAKER STATE B #36-13 - Wellbore #1 - W	11,200.00	6,600.00	554.96	424.35	4.249	SF
EXIST VERT BAKER STATE B #36-14 - Wellbore #1 - W	9,709.94	6,600.00	682.30	592.90	7.632	CC, ES
EXIST VERT BAKER STATE B #36-14 - Wellbore #1 - W	9,900.00	6,600.00	708.28	613.63	7.483	SF
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	10,362.30	6,550.00	1,262.75	1,155.49	11.772	CC
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	10,400.00	6,550.00	1,263.32	1,155.01	11.664	ES
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	10,800.00	6,550.00	1,336.46	1,217.04	11.191	SF
EXIST VERT CLYNCKE STATE B #36-25 - Wellbore #1	10,321.30	6,550.00	210.76	113.15	2.159	CC, ES, SF
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,721.71	6,650.00	752.81	495.22	2.922	CC, ES
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,800.00	6,650.00	756.87	497.08	2.913	SF
EXIST VERT ECKHARDT B #35-33 - Wellbore #1 - Well	16,750.27	6,650.00	38.11	-239.37	0.137	Level 1, CC, ES, SF
EXIST VERT HOSHIKO #2 - Wellbore #1 - Wellbore #1	13,670.94	6,688.83	538.71	338.52	2.691	CC
EXIST VERT HOSHIKO #2 - Wellbore #1 - Wellbore #1	13,700.00	6,689.19	539.50	338.49	2.684	ES, SF
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	13,840.64	6,662.98	861.32	656.36	4.202	CC, ES
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	13,900.00	6,662.89	863.36	656.74	4.178	SF
EXIST VERT HOSHIKO #35-16H4 - Wellbore #1 - Desig	12,276.40	6,677.32	770.45	479.49	2.648	CC
EXIST VERT HOSHIKO #35-16H4 - Wellbore #1 - Desig	12,300.00	6,677.31	770.81	479.19	2.643	ES, SF
EXIST VERT HOSHIKO B #35-14 - Wellbore #1 - Wellbo	15,179.41	6,650.00	622.89	380.83	2.573	CC
EXIST VERT HOSHIKO B #35-14 - Wellbore #1 - Wellbo	15,200.00	6,650.00	623.23	380.60	2.569	ES, SF
EXIST VERT HOSHIKO B #35-23 - Wellbore #1 - Wellbo	12,947.39	6,650.00	51.19	-93.35	0.354	Level 1, CC, ES, SF
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	14,943.41	6,600.00	1,837.41	1,601.71	7.795	CC
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	15,000.00	6,600.00	1,838.28	1,600.99	7.747	ES
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	15,300.00	6,600.00	1,871.69	1,625.99	7.618	SF
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	12,291.85	6,600.00	2,151.98	1,990.67	13.340	CC
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	12,400.00	6,600.00	2,154.70	1,990.36	13.111	ES
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	13,100.00	6,600.00	2,298.72	2,114.78	12.497	SF
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	13,685.23	6,628.91	2,083.44	1,882.79	10.383	CC
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	13,700.00	6,628.90	2,083.50	1,882.42	10.362	ES
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	14,300.00	6,628.26	2,172.25	1,954.36	9.969	SF
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	13,042.79	6,600.00	2,780.74	2,598.11	15.226	CC
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	13,100.00	6,600.00	2,781.32	2,597.09	15.097	ES
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	14,200.00	6,600.00	3,011.91	2,796.85	14.005	SF
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	15,679.83	6,684.58	2,732.78	2,346.36	7.072	CC
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	15,800.00	6,684.52	2,735.42	2,345.63	7.018	ES
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	16,200.00	6,684.32	2,781.85	2,380.83	6.937	SF
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	15,570.30	6,650.00	1,544.82	1,291.22	6.092	CC
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	15,600.00	6,650.00	1,545.11	1,290.67	6.073	ES
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	15,800.00	6,650.00	1,561.80	1,301.76	6.006	SF
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	14,401.93	6,600.00	1,640.49	1,420.19	7.447	CC, ES
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	14,700.00	6,595.32	1,667.34	1,438.71	7.293	SF
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	12,977.07	6,600.00	1,629.79	1,449.22	9.026	CC
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	13,000.00	6,600.00	1,629.95	1,448.74	8.995	ES
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	13,400.00	6,600.00	1,683.77	1,491.36	8.751	SF
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	8,235.83	6,550.00	617.04	568.15	12.621	CC, ES
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	8,400.00	6,550.00	638.51	585.30	11.999	SF
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	8,111.77	6,500.00	2,024.87	1,979.01	44.156	CC
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	8,200.00	6,500.00	2,026.79	1,978.62	42.073	ES
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	10,700.00	6,500.00	3,286.16	3,169.54	28.179	SF
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	100.00	70.49	1,627.04	1,626.94	10,000.000	CC
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	400.00	365.39	1,627.34	1,626.24	1,477.195	ES

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well PHARAOH 2C
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB-EST @ 4616.00usft (Original Well Elev)
Reference Site:	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	MD Reference:	KB-EST @ 4616.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PHARAOH 2C	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	Offset TVD Reference:	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 ROTHE STATE B #36-8 - Wellbore #1 - We	15,400.00	6,500.00	8,597.20	8,349.24	34.672	SF
EXIST VERT ROTHE STATE B #36-9 - Wellbore #1 - We	414.70	389.70	260.02	258.94	239.920	CC
EXIST VERT ROTHE STATE B #36-9 - Wellbore #1 - We	500.00	473.75	260.23	258.91	196.435	ES
EXIST VERT ROTHE STATE B #36-9 - Wellbore #1 - We	7,900.00	6,550.00	1,270.85	1,230.54	31.527	SF
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	9,971.45	6,647.52	2,183.21	1,956.80	9.643	CC
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	10,000.00	6,647.50	2,183.40	1,956.20	9.610	ES
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	10,600.00	6,647.19	2,271.89	2,028.02	9.316	SF
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,364.92	6,400.00	2,142.16	1,868.46	7.827	CC
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,400.00	6,400.00	2,142.45	1,867.77	7.800	ES
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,834.83	6,400.00	2,193.09	1,906.30	7.647	SF
PYRAMID 1N - ORIGINAL WELLBORE - PROPOSAL #2	600.00	595.00	1,953.47	1,951.06	810.738	CC, ES
PYRAMID 1N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,729.29	2,537.60	1,965.24	4.434	SF
PYRAMID 2N - ORIGINAL WELLBORE - PROPOSAL #2	600.00	595.00	1,938.53	1,936.12	804.537	CC
PYRAMID 2N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,655.94	2,271.44	1,699.89	3.974	ES, SF
PYRAMID 3N - ORIGINAL WELLBORE - PROPOSAL #2	5,920.23	5,926.08	1,923.55	1,892.45	61.854	CC
PYRAMID 3N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,747.91	1,947.81	1,375.71	3.405	ES, SF
PYRAMID 4N - ORIGINAL WELLBORE - PROPOSAL #2	5,846.99	5,867.79	1,703.53	1,670.00	50.816	CC
PYRAMID 4N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,688.84	1,732.98	1,162.74	3.039	ES, SF
PYRAMID 5N - ORIGINAL WELLBORE - PROPOSAL #2	5,913.63	5,976.36	1,413.47	1,375.75	37.467	CC
PYRAMID 5N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,806.43	1,438.44	866.83	2.516	ES, SF
PYRAMID 6N - ORIGINAL WELLBORE - PROPOSAL #2	5,848.97	5,971.15	1,145.12	1,103.54	27.541	CC
PYRAMID 6N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,802.01	1,154.58	586.62	2.033	ES, SF
PYRAMID 7N - ORIGINAL WELLBORE - PROPOSAL #2	5,920.60	6,104.10	890.08	844.34	19.457	CC
PYRAMID 7N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,935.94	893.19	322.57	1.565	ES, SF
PYRAMID 8N - ORIGINAL WELLBORE - PROPOSAL #2	8,236.10	8,374.08	594.55	502.77	6.478	CC
PYRAMID 8N - ORIGINAL WELLBORE - PROPOSAL #2	16,834.83	16,973.30	611.18	53.10	1.095	Level 2, ES, SF

Offset Design NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH) - PHARAOH 1N - ORIGINAL WELLBORE - PROPO												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	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)	+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	0.74	15.02	0.20	15.02				
100.00	100.00	100.00	100.00	0.09	0.09	0.74	15.02	0.20	15.02	14.85	0.17	86.780	
200.00	200.00	200.00	200.00	0.31	0.31	0.74	15.02	0.20	15.02	14.40	0.62	24.123	
300.00	300.00	300.00	300.00	0.54	0.54	0.74	15.02	0.20	15.02	13.95	1.07	14.008	
400.00	400.00	400.00	400.00	0.76	0.76	0.74	15.02	0.20	15.02	13.50	1.52	9.870	
500.00	500.00	500.00	500.00	0.99	0.99	0.74	15.02	0.20	15.02	13.05	1.97	7.619	
600.00	600.00	600.00	600.00	1.21	1.21	0.74	15.02	0.20	15.02	12.60	2.42	6.204	CC
700.00	699.98	699.98	699.98	1.41	1.44	-139.57	15.02	0.20	16.31	13.46	2.85	5.724	
800.00	799.84	799.84	799.84	1.61	1.66	-149.02	15.02	0.20	20.57	17.31	3.26	6.303	
900.00	899.45	899.45	899.45	1.82	1.88	-158.04	15.02	0.20	28.40	24.72	3.69	7.704	
1,000.00	998.70	998.70	998.70	2.07	2.11	-164.52	15.02	0.20	39.97	35.86	4.11	9.719	
1,100.00	1,097.47	1,097.47	1,097.47	2.36	2.33	-168.80	15.02	0.20	55.21	50.67	4.54	12.160	
1,200.00	1,195.62	1,195.62	1,195.62	2.70	2.55	-171.61	15.02	0.20	74.03	69.06	4.97	14.897	
1,300.00	1,293.44	1,293.44	1,293.44	3.09	2.77	-173.45	15.02	0.20	94.66	89.24	5.42	17.478	
1,400.00	1,391.25	1,391.25	1,391.25	3.49	2.99	-174.62	15.02	0.20	115.34	109.47	5.87	19.656	
1,500.00	1,489.07	1,489.07	1,489.07	3.91	3.21	-175.45	15.02	0.20	136.06	129.73	6.33	21.509	
1,600.00	1,586.88	1,586.88	1,586.88	4.34	3.43	-176.05	15.02	0.20	156.79	150.01	6.79	23.102	

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