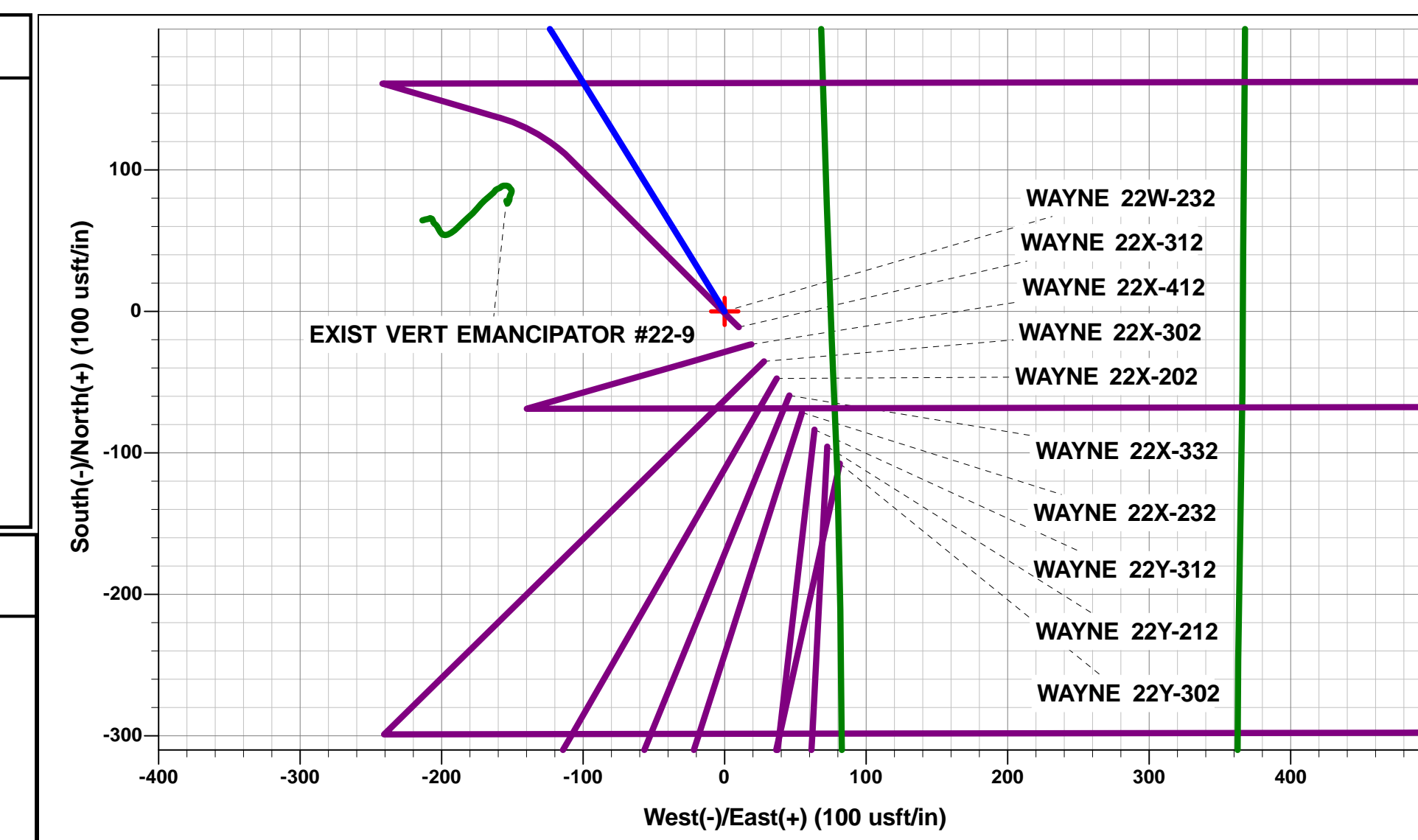




Project: WELD COUNTY, COLORADO (TRUE)  
Site: NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)  
Well: WAYNE 22W-232  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

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: 1790ft FSL & 517ft FEL of Sec		
300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	22 START NUDGE (2"/100ft BUR)		
895.62	900.00	12.00	328.30	53.26	-32.90	-31.50	62.60	EOB TO 12° INC		
2469.15	2508.68	12.00	328.30	337.82	-208.66	-199.79	397.07	END OF TANGENT		
3064.77	3108.68	0.00	0.00	391.08	-241.56	-231.29	459.67	EOD TO VERTICAL		
5846.81	5890.72	0.00	0.00	391.08	-241.56	-231.29	459.67	KOP (8"/100ft BUR)		
6563.00	7018.47	90.22	89.90	392.33	477.39	487.45	1178.62	EP: 2175ft FSL & 40ft FEL of Sec 22		
6520.95	17945.55	90.22	89.90	411.33	11404.37	11411.22	12105.62	END OF TANGENT		
6520.19	18145.54	90.22	95.90	401.22	11604.01	11610.52	12305.60	EOT TO 95.9° AZ		
6520.07	18175.54	90.22	95.90	398.14	11633.85	11640.27	12335.60	END OF TANGENT		
6519.31	18375.54	90.22	89.90	388.02	11833.50	11839.59	12535.60	EOT TO 89.9° AZ		
6518.54	18577.20	90.22	83.85	399.01	12034.77	12041.08	12737.26	EOT TO 83.85° AZ		
6518.43	18607.20	90.22	83.85	402.23	12064.60	12070.98	12767.26	END OF TANGENT		
6517.66	18808.79	90.22	89.90	413.21	12265.79	12272.39	12968.85	EOT TO 89.9° AZ		
6503.00	22663.87	90.22	89.90	420.10	16120.84	16126.31	16823.91	BHL: 2175ft FSL & 150ft FEL of Sec 19		

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - WAYNE 22W-232	5846.81	391.08	-241.56	40.383609	-104.529113
EP - WAYNE 22W-232	6563.00	392.33	477.39	40.38361	-104.52653
BHL - WAYNE 22W-232	6503.00	420.10	16120.84	40.38367	-104.47038
SHL - WAYNE 22W-232	0.00	0.00	0.00	40.38254	-104.528246



PROPOSED LOCAL COORDINATES:

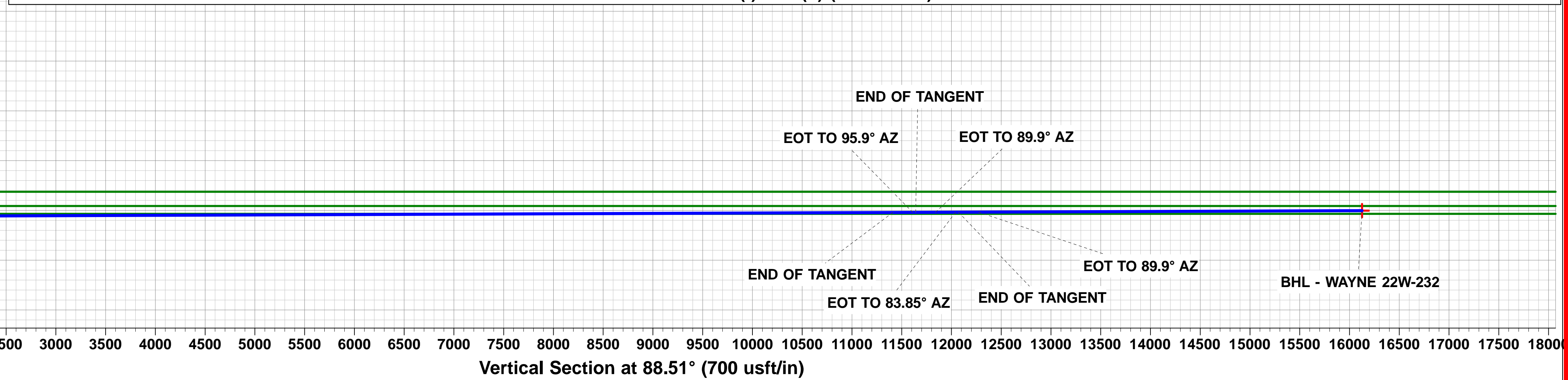
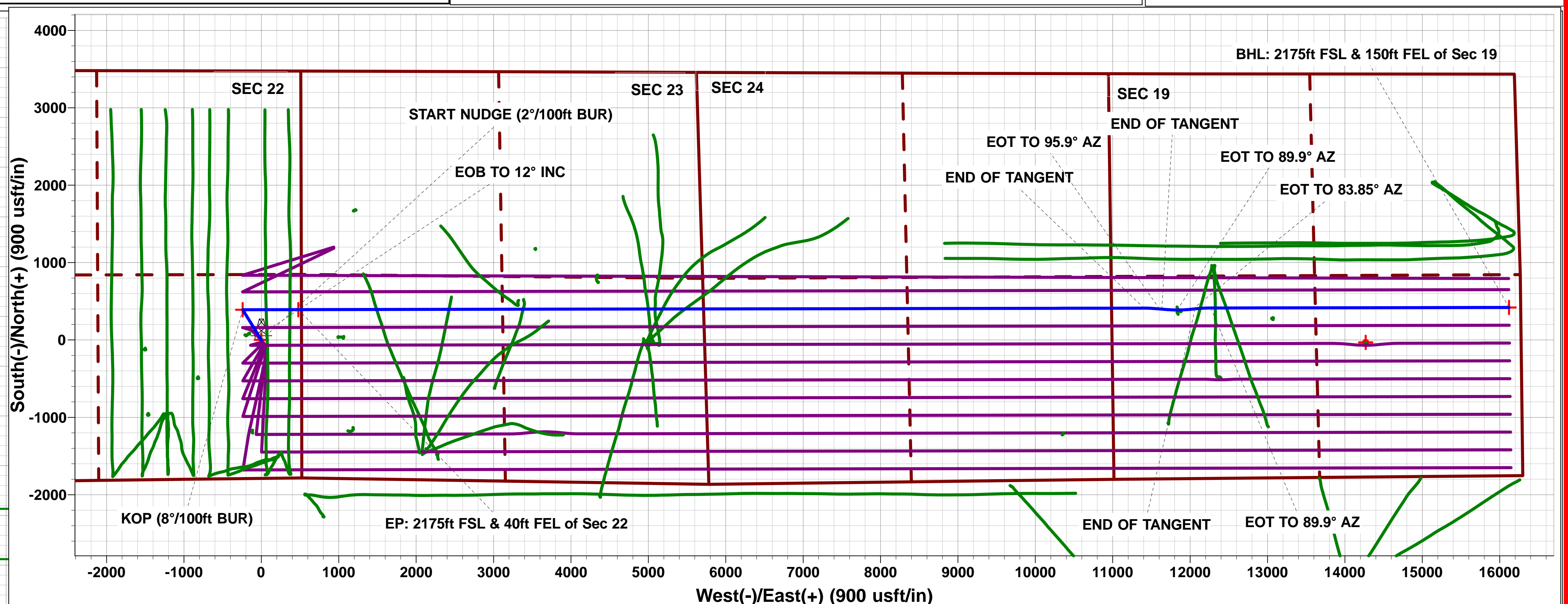
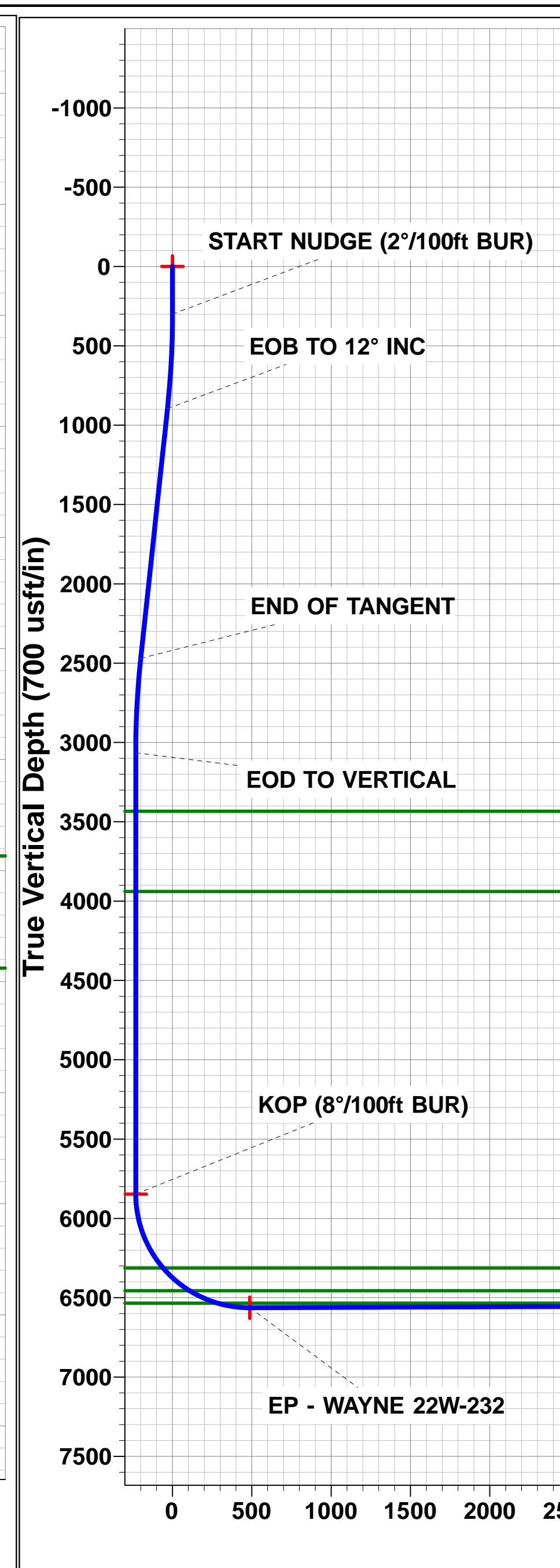
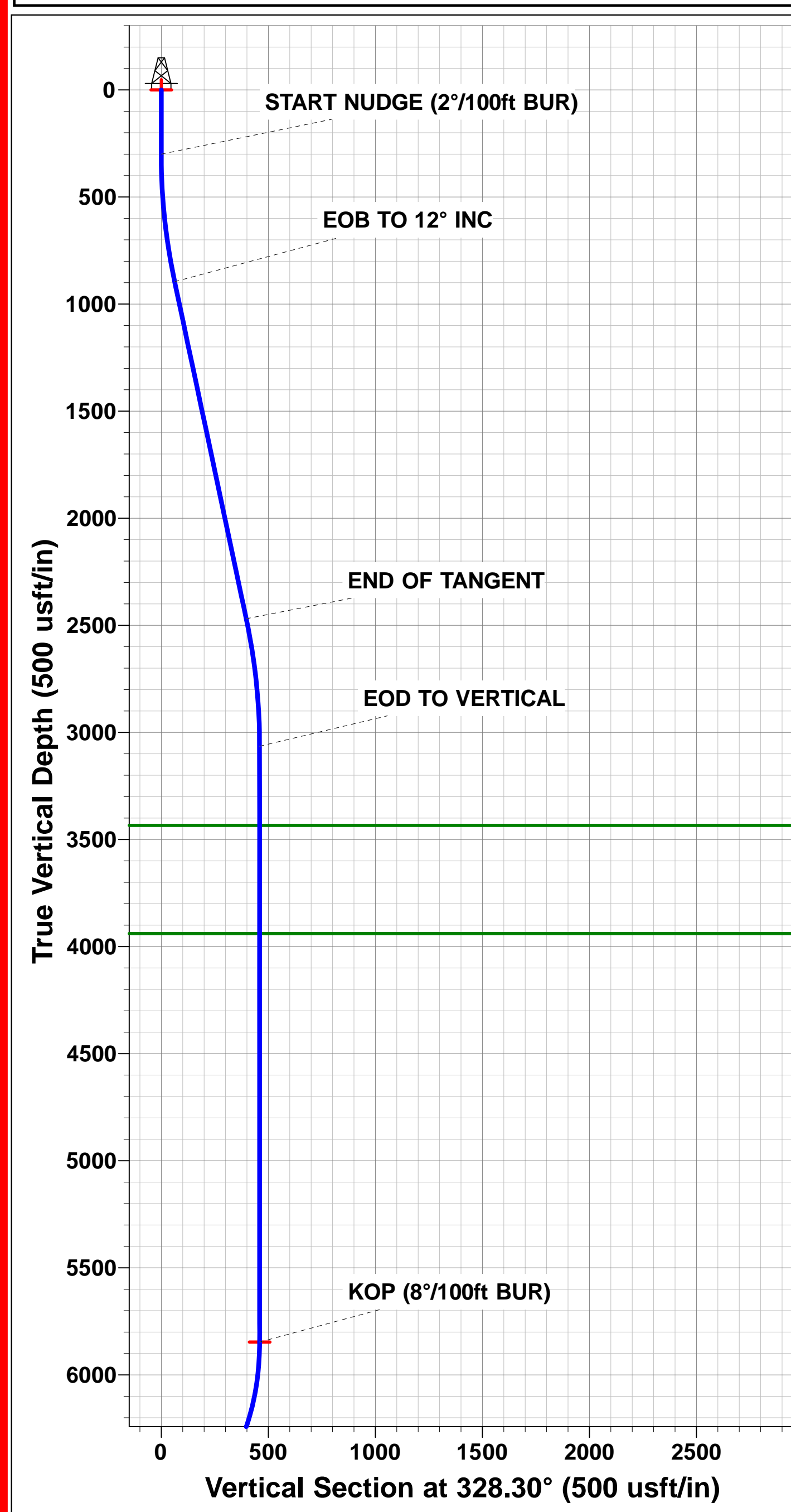
SHL: 1790ft FSL & 517ft FEL of Sec 22

EP: 2175ft FSL & 40ft FEL of Sec 22

BHL: 2175ft FSL & 150ft FEL of Sec 19

Azimuths to True North  
Magnetic North: 7.97°

Magnetic Field  
Strength: 52290.2snT  
Dip Angle: 66.85°  
Date: 04/07/2018  
Model: IGRF2015



# **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)  
NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)  
WAYNE 22W-232**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**11 July, 2018**



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WAYNE 22W-232 - Slot WAYNE 22W-232
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB-EST @ 4623.00usft (Original Well Elev)
<b>Reference Site:</b>	NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)	<b>MD Reference:</b>	KB-EST @ 4623.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WAYNE 22W-232	<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 #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #1		
<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>	10/07/2018		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	22,663.85	PROPOSAL #1 (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. 22 T5N R64W 6th P.M. (WAYNE)						
ABDN DD MONFORT #24-6H4 - Wellbore #1 - Wellbore	14,022.89	7,242.50	1,108.21	845.04	4.211	CC
ABDN DD MONFORT #24-6H4 - Wellbore #1 - Wellbore	14,100.00	7,268.08	1,110.67	844.33	4.170	ES
ABDN DD MONFORT #24-6H4 - Wellbore #1 - Wellbore	14,200.00	7,297.82	1,121.18	851.01	4.150	SF
ABDN DD UPRC #23-10H4 - Wellbore #1 - Wellbore #1	10,253.38	7,000.00	304.59	238.31	4.595	CC, ES, SF
ABDN DD UPRC #23-15H4 - Wellbore #1 - Wellbore #1	10,140.29	6,731.41	1,618.91	1,482.63	11.879	CC
ABDN DD UPRC #23-15H4 - Wellbore #1 - Wellbore #1	10,300.00	6,929.32	1,621.21	1,476.45	11.199	ES
ABDN DD UPRC #23-15H4 - Wellbore #1 - Wellbore #1	10,900.00	7,269.80	1,716.19	1,551.96	10.450	SF
ABDN DD UPRC #23-16H4 - Wellbore #1 - Wellbore #1	11,613.12	6,000.00	1,267.08	1,139.91	9.964	CC, ES
ABDN DD UPRC #23-16H4 - Wellbore #1 - Wellbore #1	12,000.00	6,014.06	1,324.73	1,187.46	9.651	SF
ABDN DD UPRC #23-6H4 - Wellbore #1 - Wellbore #1	8,989.18	6,596.51	985.00	894.24	10.853	CC
ABDN DD UPRC #23-6H4 - Wellbore #1 - Wellbore #1	9,000.00	6,591.33	985.06	894.18	10.839	ES
ABDN DD UPRC #23-6H4 - Wellbore #1 - Wellbore #1	9,100.00	6,541.53	990.47	898.70	10.793	SF
ABDN VERT EMANCIPATOR #22-16 - Wellbore #1 - We	100.00	71.47	1,199.48	1,199.35	9,597.411	CC, ES
ABDN VERT EMANCIPATOR #22-16 - Wellbore #1 - We	16,300.00	6,618.90	9,997.57	9,719.13	35.905	SF
ABDN VERT FLACK #10-19 - Wellbore #1 - Design #1	20,810.76	6,450.05	447.40	-85.44	0.840	Level 1, CC, ES, SF
ABDN VERT UPRC #23-13A - Wellbore #1 - Wellbore #1	7,659.34	6,558.49	1,568.54	1,529.91	40.598	CC
ABDN VERT UPRC #23-13A - Wellbore #1 - Wellbore #1	7,700.00	6,557.17	1,569.07	1,529.39	39.549	ES
ABDN VERT UPRC #23-13A - Wellbore #1 - Wellbore #1	9,500.00	6,492.03	2,417.38	2,329.01	27.357	SF
ABDN VERT UPRC #23-14A - Wellbore #1 - Wellbore #1	8,823.38	6,489.34	1,936.99	1,867.14	27.732	CC
ABDN VERT UPRC #23-14A - Wellbore #1 - Wellbore #1	8,900.00	6,490.27	1,938.50	1,866.56	26.943	ES
ABDN VERT UPRC #23-14A - Wellbore #1 - Wellbore #1	10,300.00	6,507.91	2,435.58	2,324.84	21.995	SF
EXIST DD BIJOU #14-19DU - Wellbore #1 - Wellbore #1	18,307.70	6,949.93	1,467.67	1,114.11	4.151	CC, ES
EXIST DD BIJOU #14-19DU - Wellbore #1 - Wellbore #1	18,400.00	6,948.53	1,472.79	1,115.62	4.124	SF
EXIST DD BIJOU #19BDU - Wellbore #1 - Wellbore #1	18,930.56	6,689.90	894.74	528.04	2.440	CC, ES
EXIST DD BIJOU #19BDU - Wellbore #1 - Wellbore #1	19,000.00	6,692.40	897.43	528.76	2.434	SF
EXIST DD BIJOU #24-19DU - Wellbore #1 - Wellbore #1	19,546.87	6,900.88	1,532.09	1,141.45	3.922	CC
EXIST DD BIJOU #24-19DU - Wellbore #1 - Wellbore #1	19,600.00	6,901.53	1,533.01	1,140.88	3.909	ES
EXIST DD BIJOU #24-19DU - Wellbore #1 - Wellbore #1	19,700.00	6,902.75	1,539.72	1,144.78	3.899	SF
EXIST DD CHEWY B #23-23 - Wellbore #1 - Wellbore #1	10,909.91	7,024.79	2,420.83	2,273.72	16.456	CC
EXIST DD CHEWY B #23-23 - Wellbore #1 - Wellbore #1	11,000.00	7,023.63	2,422.50	2,272.88	16.190	ES
EXIST DD CHEWY B #23-23 - Wellbore #1 - Wellbore #1	12,000.00	7,010.65	2,654.89	2,477.29	14.948	SF
EXIST DD CHEWY B #23-24 - Wellbore #1 - Wellbore #1	9,549.57	6,698.17	1,021.72	929.89	11.125	CC
EXIST DD CHEWY B #23-24 - Wellbore #1 - Wellbore #1	9,600.00	6,697.46	1,022.97	929.73	10.972	ES
EXIST DD CHEWY B #23-24 - Wellbore #1 - Wellbore #1	9,900.00	6,693.27	1,080.14	978.59	10.637	SF
EXIST DD CHEWY B #23-25 - Wellbore #1 - Wellbore #1	8,375.98	6,642.72	884.79	813.42	12.398	CC

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



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WAYNE 22W-232 - Slot WAYNE 22W-232
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB-EST @ 4623.00usft (Original Well Elev)
<b>Reference Site:</b>	NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)	<b>MD Reference:</b>	KB-EST @ 4623.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WAYNE 22W-232	<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 #1	<b>Offset TVD Reference:</b>	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
NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)						
EXIST DD CHEWY B #23-25 - Wellbore #1 - Wellbore #1	8,400.00	6,642.30	885.11	813.10	12.291	ES
EXIST DD CHEWY B #23-25 - Wellbore #1 - Wellbore #1	8,700.00	6,637.16	942.24	862.10	11.757	SF
EXIST DD FERGUSON #24-5H4 - Wellbore #1 - Wellbor	12,750.06	6,824.59	1,008.55	811.68	5.123	CC
EXIST DD FERGUSON #24-5H4 - Wellbore #1 - Wellbor	12,800.00	6,847.75	1,009.52	810.03	5.061	ES
EXIST DD FERGUSON #24-5H4 - Wellbore #1 - Wellbor	13,000.00	6,936.17	1,032.87	823.68	4.937	SF
EXIST DD KUNER 6-0-25 - Wellbore #1 - Wellbore #1	16,227.12	6,800.18	2,300.96	2,000.95	7.670	CC
EXIST DD KUNER 6-0-25 - Wellbore #1 - Wellbore #1	16,300.00	6,797.91	2,302.11	2,000.06	7.622	ES
EXIST DD KUNER 6-0-25 - Wellbore #1 - Wellbore #1	16,700.00	6,784.88	2,348.99	2,035.75	7.499	SF
EXIST DD PETERSON CX GH #30-26D - Wellbore #1 -	22,663.87	7,090.94	2,231.88	1,730.25	4.449	CC, ES, SF
EXIST DD PETERSON CX GH #30-27D - Wellbore #1 -	21,517.77	6,780.22	2,201.35	1,754.46	4.926	CC
EXIST DD PETERSON CX GH #30-27D - Wellbore #1 -	21,600.00	6,780.44	2,202.89	1,753.68	4.904	ES
EXIST DD PETERSON CX GH #30-27D - Wellbore #1 -	21,800.00	6,780.96	2,219.37	1,764.54	4.880	SF
EXIST DD PETERSON CX GH #30-28D - Wellbore #1 -	20,206.61	6,725.00	2,202.04	1,798.08	5.451	CC
EXIST DD PETERSON CX GH #30-28D - Wellbore #1 -	20,300.00	6,725.00	2,204.02	1,797.43	5.421	ES
EXIST DD PETERSON CX GH #30-28D - Wellbore #1 -	20,500.00	6,725.00	2,221.50	1,809.29	5.389	SF
EXIST DD UPRC #23-11H4 - Wellbore #1 - Wellbore #1	8,953.90	7,169.34	76.73	0.14	1.002	Level 2, CC, ES, SF
EXIST DD UPRC #23-3H4 - Wellbore #1 - Wellbore #1	7,909.08	7,201.48	369.98	301.55	5.407	CC, ES
EXIST DD UPRC #23-3H4 - Wellbore #1 - Wellbore #1	8,000.00	7,191.02	380.85	310.36	5.403	SF
EXIST DD UPV #23-1H4 - Wellbore #1 - Wellbore #1	11,664.65	6,338.32	2,144.29	1,986.96	13.629	CC
EXIST DD UPV #23-1H4 - Wellbore #1 - Wellbore #1	11,700.00	6,337.09	2,144.58	1,986.37	13.555	ES
EXIST DD UPV #23-1H4 - Wellbore #1 - Wellbore #1	12,300.00	6,306.42	2,236.30	2,063.52	12.943	SF
EXIST DD UPV #23-8H4 - Wellbore #1 - Wellbore #1	11,239.92	6,716.11	1,400.20	1,248.92	9.256	CC
EXIST DD UPV #23-8H4 - Wellbore #1 - Wellbore #1	11,300.00	6,709.04	1,401.47	1,248.70	9.174	ES
EXIST DD UPV #23-8H4 - Wellbore #1 - Wellbore #1	11,600.00	6,669.71	1,445.31	1,285.30	9.032	SF
EXIST HZ COCKROFT #19W-214 - Wellbore #1 - Wellb	21,109.83	7,926.45	617.65	164.68	1.364	Level 3, CC
EXIST HZ COCKROFT #19W-214 - Wellbore #1 - Wellb	21,300.00	7,738.52	617.78	163.83	1.361	Level 3, ES, SF
EXIST HZ COCKROFT #19W-314 - ORIGINAL WELLBO	20,707.76	8,364.61	833.26	382.18	1.847	CC
EXIST HZ COCKROFT #19W-314 - ORIGINAL WELLBO	21,226.34	7,845.97	834.04	381.16	1.842	ES
EXIST HZ COCKROFT #19W-314 - ORIGINAL WELLBO	21,300.00	7,792.82	834.94	381.25	1.840	SF
EXIST HZ COCKROFT #19W-314 - SIDETRACK - SIDE	18,934.57	10,012.34	797.44	356.42	1.808	CC, ES
EXIST HZ COCKROFT #19W-314 - SIDETRACK - SIDE	22,300.00	6,713.53	824.09	362.57	1.786	SF
EXIST HZ CONNIE #26E-402 - Wellbore #1 - Wellbore #	12,837.47	12,162.19	2,389.04	2,053.03	7.110	CC
EXIST HZ CONNIE #26E-402 - Wellbore #1 - Wellbore #	17,100.00	16,383.00	2,394.55	1,820.84	4.174	ES
EXIST HZ CONNIE #26E-402 - Wellbore #1 - Wellbore #	17,300.00	16,383.00	2,406.46	1,827.14	4.154	SF
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore	6,300.00	8,441.67	479.78	435.13	10.745	SF
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore	6,379.77	8,439.51	468.70	426.76	11.177	CC, ES
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore	6,200.00	8,541.27	725.77	677.90	15.161	SF
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore	6,332.93	8,538.39	701.35	657.64	16.046	CC, ES
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore	6,650.00	8,487.97	206.13	173.92	6.401	SF
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore	6,682.18	8,486.88	202.88	171.90	6.547	CC, ES
EXIST HZ LEDFORD #22Y-401 - Wellbore #1 - Wellbore	6,900.00	8,525.98	194.01	168.94	7.739	SF
EXIST HZ LEDFORD #22Y-401 - Wellbore #1 - Wellbore	6,932.27	8,526.17	190.58	165.97	7.743	CC, ES
EXIST HZ SAPPINGTON #22Q-221 - Wellbore #1 - Well	6,000.00	8,610.24	1,464.31	1,420.37	33.325	SF
EXIST HZ SAPPINGTON #22Q-221 - Wellbore #1 - Well	6,144.76	8,609.86	1,442.70	1,400.45	34.147	CC, ES
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Well	0.00	0.00	1,579.95			
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Well	100.00	87.15	1,580.05	1,579.87	9,082.476	ES
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Well	5,950.00	8,638.50	1,866.03	1,822.20	42.571	SF
EXIST HZ SAPPINGTON #22T-341 - Wellbore #1 - Well	6,100.00	8,498.37	1,184.11	1,142.33	28.340	SF
EXIST HZ SAPPINGTON #22T-341 - Wellbore #1 - Well	6,215.34	8,499.42	1,169.26	1,129.16	29.159	CC, ES
EXIST HZ SAPPINGTON #22T-201 - Wellbore #1 - Wellb	6,150.00	8,487.01	844.69	802.24	19.898	SF
EXIST HZ SAPPINGTON #22T-201 - Wellbore #1 - Wellb	6,249.30	8,485.33	832.00	791.12	20.352	CC, ES

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 WAYNE 22W-232 - Slot WAYNE 22W-232
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB-EST @ 4623.00usft (Original Well Elev)
<b>Reference Site:</b>	NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)	<b>MD Reference:</b>	KB-EST @ 4623.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WAYNE 22W-232	<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 #1	<b>Offset TVD Reference:</b>	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
NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)						
EXIST VERT CPC-FERGUSON #23-1 - Wellbore #1 - W	10,083.66	6,482.00	783.92	679.49	7.507	CC
EXIST VERT CPC-FERGUSON #23-1 - Wellbore #1 - W	10,100.00	6,481.88	784.09	679.21	7.476	ES
EXIST VERT CPC-FERGUSON #23-1 - Wellbore #1 - W	10,200.00	6,481.13	792.51	684.84	7.361	SF
EXIST VERT EMANCIPATOR #22-10 - Wellbore #1 - We	3,058.88	2,987.38	1,352.57	1,340.93	116.267	CC, ES
EXIST VERT EMANCIPATOR #22-10 - Wellbore #1 - We	15,000.00	6,625.84	9,977.13	9,737.07	41.562	SF
EXIST VERT EMANCIPATOR #22-15 - Wellbore #1 - We	100.00	68.97	1,741.67	1,741.55	10,000.000	CC, ES
EXIST VERT EMANCIPATOR #22-15 - Wellbore #1 - We	14,900.00	6,623.58	9,918.69	9,679.63	41.490	SF
EXIST VERT EMANCIPATOR #22-9 - Wellbore #1 - Wel	1,340.02	1,266.82	84.26	79.48	17.635	CC, ES
EXIST VERT EMANCIPATOR #22-9 - Wellbore #1 - Wel	1,500.00	1,422.98	90.66	85.24	16.735	SF
EXIST VERT EMANCIPATOR B #22-23 - Wellbore #1 - W	100.00	71.50	946.21	946.09	7,519.033	CC, ES
EXIST VERT EMANCIPATOR B #22-23 - Wellbore #1 - W	15,600.00	6,623.33	9,921.25	9,663.03	38.422	SF
EXIST VERT FERGUSON B #23-22 - Wellbore #1 - Wel	10,891.49	6,491.58	343.61	216.27	2.698	CC
EXIST VERT FERGUSON B #23-22 - Wellbore #1 - Wel	10,900.00	6,491.37	343.71	216.14	2.694	ES, SF
EXIST VERT ODLE #BB19-11 - Wellbore #1 - Wellbore #	19,615.54	6,442.94	150.79	-220.77	0.406	Level 1, CC, ES, SF
EXIST VERT ODLE #BB19-12 - Wellbore #1 - Wellbore #	18,373.70	6,452.23	35.76	-300.49	0.106	Level 1, CC, ES, SF
EXIST VERT ROTHE #16-24 - Wellbore #1 - Wellbore #1	16,900.42	5,975.00	1,690.80	1,406.39	5.945	CC, ES
EXIST VERT ROTHE #16-24 - Wellbore #1 - Wellbore #1	17,200.00	5,975.00	1,717.13	1,424.64	5.871	SF
EXIST VERT UPRC #23-12A - Wellbore #1 - Wellbore #1	7,534.73	6,537.27	350.34	314.90	9.883	CC, ES
EXIST VERT UPRC #23-12A - Wellbore #1 - Wellbore #1	7,600.00	6,537.63	356.37	319.28	9.608	SF
EXIST VERT UPRC #23-5A - Wellbore #1 - Wellbore #1	7,748.21	6,502.21	1,284.17	1,243.50	31.570	CC
EXIST VERT UPRC #23-5A - Wellbore #1 - Wellbore #1	7,800.00	6,503.06	1,285.22	1,243.20	30.588	ES
EXIST VERT UPRC #23-5A - Wellbore #1 - Wellbore #1	8,900.00	6,522.64	1,724.92	1,653.30	24.082	SF
EXIST VERT UPRC #23-9H4 - Wellbore #1 - Wellbore #	11,544.81	6,506.62	525.75	380.39	3.617	CC, ES
EXIST VERT UPRC #23-9H4 - Wellbore #1 - Wellbore #	11,600.00	6,506.63	528.63	381.73	3.599	SF
WAYNE 22X-202 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	59.96	58.88	55.922	CC
WAYNE 22X-202 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,672.56	920.22	9.78	1.011	Level 2, ES, SF
WAYNE 22X-232 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	89.96	88.89	83.907	CC, ES
WAYNE 22X-232 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,719.07	1,380.13	469.87	1.516	SF
WAYNE 22X-302 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	44.95	43.88	41.924	CC
WAYNE 22X-302 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,723.97	691.79	-217.13	0.761	Level 1, ES, SF
WAYNE 22X-312 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	15.01	13.94	14.000	CC
WAYNE 22X-312 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,717.56	235.37	-657.24	0.264	Level 1, ES, SF
WAYNE 22X-332 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	74.95	73.88	69.906	CC, ES
WAYNE 22X-332 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,774.62	1,150.69	240.80	1.265	Level 3, SF
WAYNE 22X-412 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	29.95	28.87	27.931	CC
WAYNE 22X-412 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,702.47	474.15	-410.33	0.536	Level 1, ES, SF
WAYNE 22Y-212 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	119.97	118.89	111.895	CC, ES
WAYNE 22Y-212 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,572.73	1,840.08	934.32	2.032	SF
WAYNE 22Y-302 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	134.93	133.86	125.854	CC, ES
WAYNE 22Y-302 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,972.33	2,070.35	1,160.46	2.275	SF
WAYNE 22Y-312 - ORIGINAL WELLBORE - PROPOSA	300.00	300.00	104.95	103.88	97.893	CC, ES
WAYNE 22Y-312 - ORIGINAL WELLBORE - PROPOSA	22,663.87	22,668.26	1,610.48	704.38	1.777	SF
SW NW SEC. 23 T5N R64W 6th P.M. (FERGUSON)						
FERGUSON 23G-202 - ORIGINAL WELLBORE - PROP	22,663.87	22,738.05	375.19	-528.04	0.415	Level 1, CC, ES, SF
FERGUSON 23G-332 - ORIGINAL WELLBORE - PROP	5,890.72	5,997.59	230.00	196.89	6.945	CC
FERGUSON 23G-332 - ORIGINAL WELLBORE - PROP	22,663.87	22,838.16	233.46	-659.27	0.262	Level 1, ES, SF

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