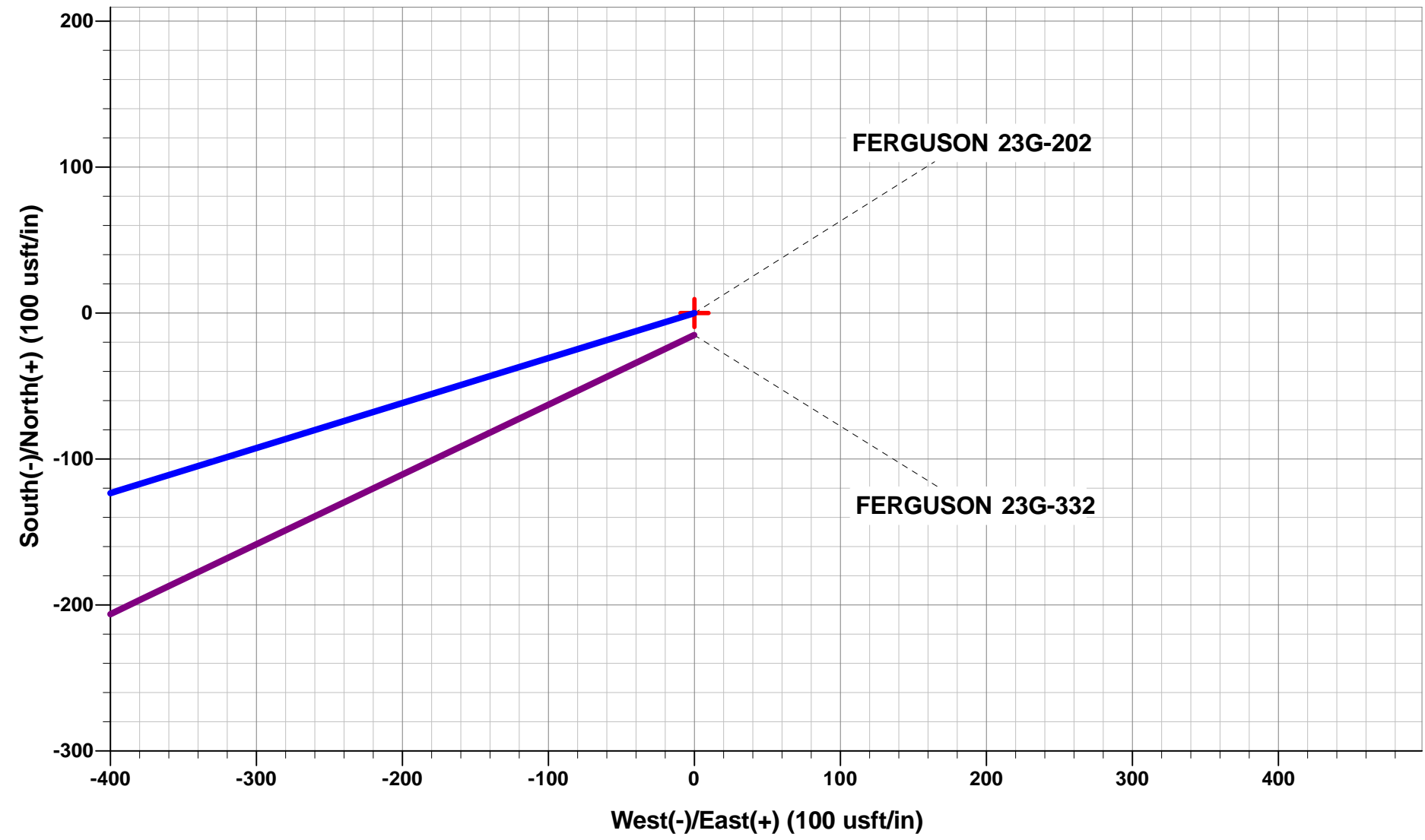




Project: WELD COUNTY, COLORADO (TRUE)
Site: SW NW SEC. 23 T5N R64W 6th P.M. (FERGUSON)
Well: FERGUSON 23G-202
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

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: 2274ft FNL & 420ft FWL of Sec 23	
400.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)	
1189.30	1199.64	15.99	252.87	-32.65	-105.96	-105.05	110.88	EOB TO 15.99° INC	
4717.51	4869.91	15.99	252.87	-330.42	-1072.35	-1063.13	1122.10	END OF TANGENT	
5506.81	5669.55	0.00	0.00	-363.07	-1178.31	-1168.18	1232.98	EOD TO VERTICAL	
5806.81	5969.55	0.00	0.00	-363.07	-1178.31	-1168.18	1232.98	KOP (8°/100ft BUR)	
6523.00	7097.92	90.27	90.15	-364.95	-458.74	-448.82	1952.55	EP: 2617ft FSL & 40ft FEL of Sec 22	
6448.00	22738.05	90.28	90.15	-406.05	15181.15	15186.58	17592.50	BHL: 2549ft FSL & 150ft FEL of Sec 19	

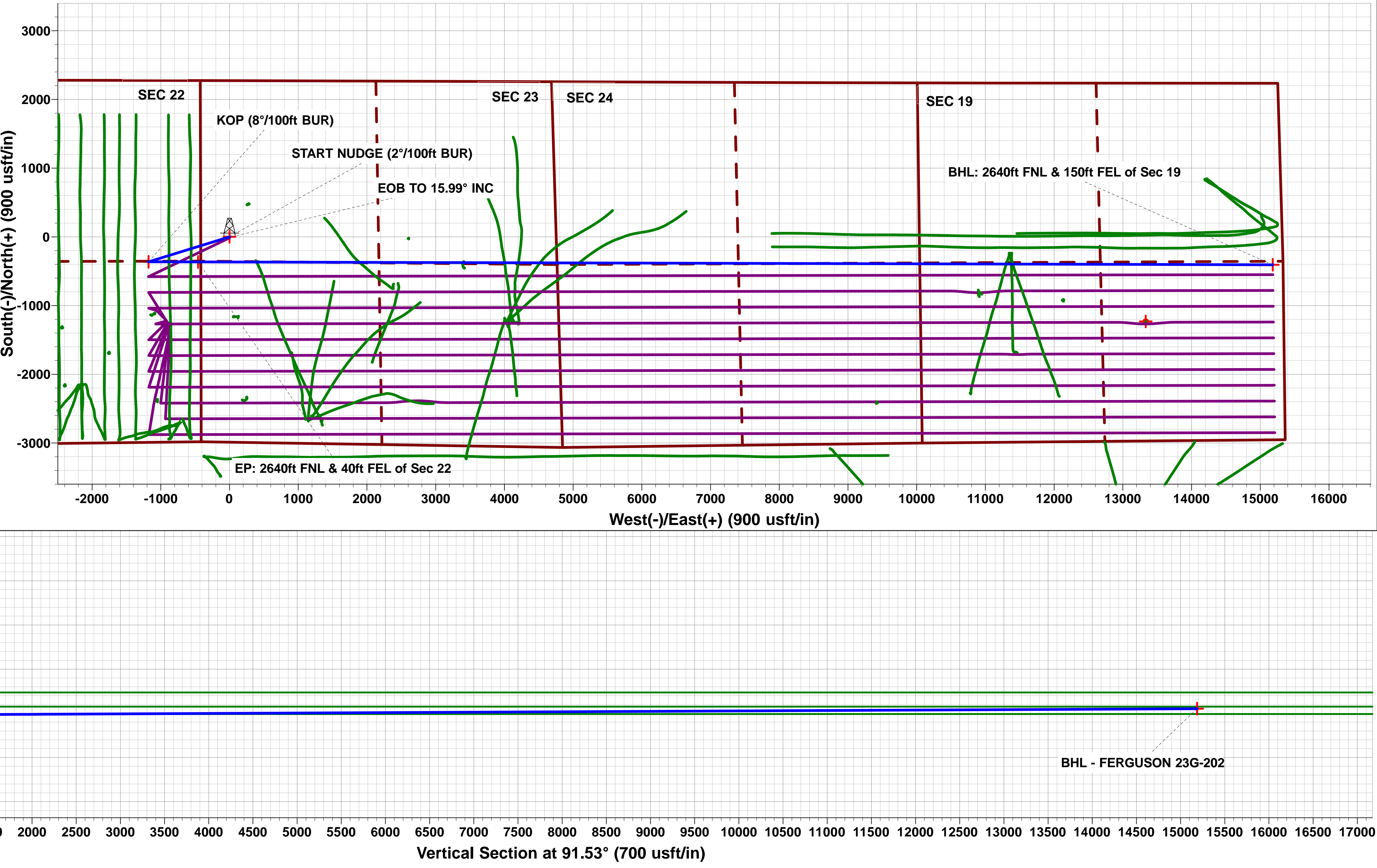
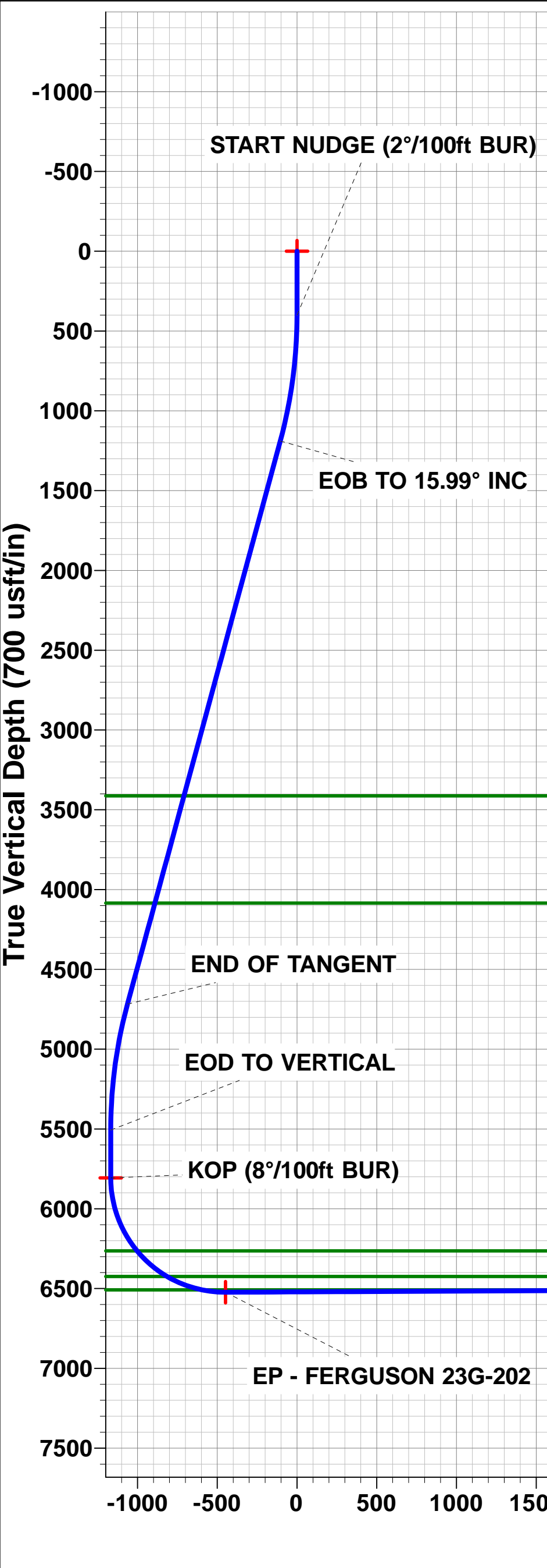
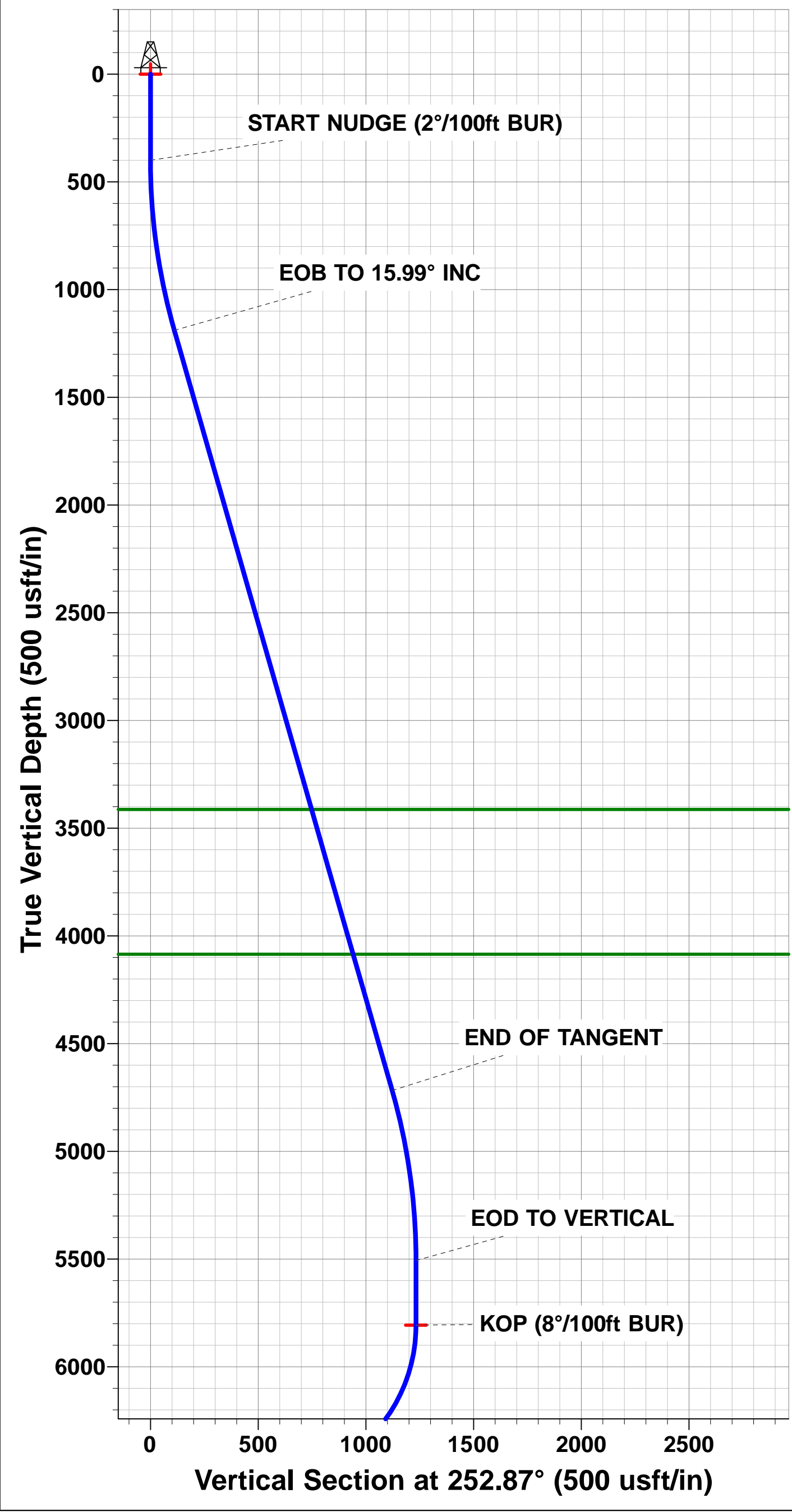
WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - FERGUSON 23G-202	5806.81	-363.07	-1178.31	40.384831	-104.529120
EP - FERGUSON 23G-202	6523.00	-364.95	-458.74	40.384826	-104.526537
BHL - FERGUSON 23G-202	6448.00	-406.05	15181.15	40.384700	-104.470396
SHL - FERGUSON 23G-202	0.00	0.00	0.00	40.385828	-104.524890



PROPOSED LOCAL COORDINATES:
SHL: 2274ft FNL & 420ft FWL of Sec 23
EP: 2617ft FSL & 40ft FEL of Sec 22
BHL: 2549ft FSL & 150ft FEL of Sec 19

Azimuths to True North
Magnetic North: 7.97°

Magnetic Field
Strength: 52292.1snT
Dip Angle: 66.85°
Date: 05/07/2018
Model: IGRF2015



PDC ENERGY

WELD COUNTY, COLORADO (TRUE)

SW NW SEC. 23 T5N R64W 6th P.M. (FERGUSON)

FERGUSON 23G-202

ORIGINAL WELLBORE

PROPOSAL #1

Anticollision Report

10 July, 2018



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well FERGUSON 23G-202
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB-EST @ 4598.00usft (Original Well Elev)
Reference Site:	SW NW SEC. 23 T5N R64W 6th P.M. (FERGUSON)	MD Reference:	KB-EST @ 4598.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FERGUSON 23G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #1		
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 10,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	10/07/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,738.05	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
Offset Well - Wellbore - Design						
NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)						
ABDN DD MONFORT #24-6H4 - Wellbore #1 - Wellbore	14,116.36	7,312.91	699.12	439.66	2.694	CC, ES
ABDN DD MONFORT #24-6H4 - Wellbore #1 - Wellbore	14,200.00	7,333.87	703.84	440.91	2.677	SF
ABDN DD UPRC #23-10H4 - Wellbore #1 - Wellbore #1	10,335.92	7,000.00	630.95	526.00	6.012	CC, ES
ABDN DD UPRC #23-10H4 - Wellbore #1 - Wellbore #1	10,400.00	7,000.00	634.19	527.63	5.951	SF
ABDN DD UPRC #23-15H4 - Wellbore #1 - Wellbore #1	10,177.48	6,643.00	2,037.81	1,906.88	15.565	CC
ABDN DD UPRC #23-15H4 - Wellbore #1 - Wellbore #1	10,300.00	6,689.95	2,040.96	1,905.84	15.106	ES
ABDN DD UPRC #23-15H4 - Wellbore #1 - Wellbore #1	11,300.00	7,341.84	2,221.61	2,052.78	13.159	SF
ABDN DD UPRC #23-16H4 - Wellbore #1 - Wellbore #1	11,691.80	5,800.00	1,617.29	1,491.34	12.840	CC
ABDN DD UPRC #23-16H4 - Wellbore #1 - Wellbore #1	11,700.00	5,800.00	1,617.31	1,491.16	12.820	ES
ABDN DD UPRC #23-16H4 - Wellbore #1 - Wellbore #1	12,200.00	5,819.63	1,695.09	1,556.06	12.193	SF
ABDN DD UPRC #23-6H4 - Wellbore #1 - Wellbore #1	9,026.27	6,773.52	564.83	475.58	6.329	CC, ES
ABDN DD UPRC #23-6H4 - Wellbore #1 - Wellbore #1	9,100.00	6,754.53	569.36	479.05	6.305	SF
ABDN VERT EMANCIPATOR #22-16 - Wellbore #1 - We	6,450.00	6,276.23	2,004.42	1,977.43	74.277	ES
ABDN VERT EMANCIPATOR #22-16 - Wellbore #1 - We	6,457.73	6,281.68	2,004.41	1,977.45	74.354	CC
ABDN VERT EMANCIPATOR #22-16 - Wellbore #1 - We	16,300.00	6,600.00	9,989.95	9,718.78	36.840	SF
ABDN VERT FLACK #10-19 - Wellbore #1 - Design #1	20,892.58	6,422.00	829.47	302.33	1.574	CC
ABDN VERT FLACK #10-19 - Wellbore #1 - Design #1	20,900.00	6,421.96	829.50	302.15	1.573	ES, SF
ABDN VERT UPRC #23-13A - Wellbore #1 - Wellbore #1	7,748.04	6,551.45	2,008.18	1,968.77	50.954	CC
ABDN VERT UPRC #23-13A - Wellbore #1 - Wellbore #1	7,800.00	6,549.80	2,008.85	1,968.36	49.609	ES
ABDN VERT UPRC #23-13A - Wellbore #1 - Wellbore #1	10,900.00	6,400.00	3,734.92	3,614.06	30.901	SF
ABDN VERT UPRC #23-14A - Wellbore #1 - Wellbore #1	8,913.16	6,461.75	2,370.99	2,303.43	35.091	CC
ABDN VERT UPRC #23-14A - Wellbore #1 - Wellbore #1	9,000.00	6,462.68	2,372.58	2,302.76	33.979	ES
ABDN VERT UPRC #23-14A - Wellbore #1 - Wellbore #1	11,300.00	6,489.39	3,364.22	3,232.10	25.463	SF
EXIST DD BIJOU #14-19DU - Wellbore #1 - Wellbore #1	18,342.89	6,941.02	1,883.80	1,536.04	5.417	CC
EXIST DD BIJOU #14-19DU - Wellbore #1 - Wellbore #1	18,400.00	6,940.13	1,884.66	1,535.30	5.395	ES
EXIST DD BIJOU #14-19DU - Wellbore #1 - Wellbore #1	18,600.00	6,936.97	1,901.26	1,546.27	5.356	SF
EXIST DD BIJOU #19BDU - Wellbore #1 - Wellbore #1	19,012.92	6,654.41	1,284.23	922.60	3.551	CC, ES
EXIST DD BIJOU #19BDU - Wellbore #1 - Wellbore #1	19,100.00	6,657.59	1,287.18	923.08	3.535	SF
EXIST DD BIJOU #24-19DU - Wellbore #1 - Wellbore #1	19,632.98	6,866.96	1,919.19	1,533.46	4.975	CC
EXIST DD BIJOU #24-19DU - Wellbore #1 - Wellbore #1	19,700.00	6,867.68	1,920.36	1,532.75	4.954	ES
EXIST DD BIJOU #24-19DU - Wellbore #1 - Wellbore #1	19,900.00	6,869.82	1,937.68	1,544.45	4.928	SF
EXIST DD CHEWY B #23-23 - Wellbore #1 - Wellbore #1	11,002.09	7,017.07	2,846.52	2,703.36	19.883	CC
EXIST DD CHEWY B #23-23 - Wellbore #1 - Wellbore #1	11,100.00	7,015.76	2,848.20	2,702.34	19.527	ES
EXIST DD CHEWY B #23-23 - Wellbore #1 - Wellbore #1	12,600.00	6,995.46	3,264.26	3,076.83	17.416	SF
EXIST DD CHEWY B #23-24 - Wellbore #1 - Wellbore #1	9,635.87	6,681.41	1,453.06	1,364.44	16.397	CC
EXIST DD CHEWY B #23-24 - Wellbore #1 - Wellbore #1	9,700.00	6,680.43	1,454.47	1,364.13	16.100	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 FERGUSON 23G-202
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB-EST @ 4598.00usft (Original Well Elev)
Reference Site:	SW NW SEC. 23 T5N R64W 6th P.M. (FERGUSON)	MD Reference:	KB-EST @ 4598.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FERGUSON 23G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	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
NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)						
EXIST DD CHEWY B #23-24 - Wellbore #1 - Wellbore #1	10,300.00	6,671.29	1,597.60	1,491.01	14.988	SF
EXIST DD CHEWY B #23-25 - Wellbore #1 - Wellbore #1	8,461.86	6,621.46	1,320.92	1,251.16	18.936	CC
EXIST DD CHEWY B #23-25 - Wellbore #1 - Wellbore #1	8,500.00	6,620.80	1,321.47	1,250.77	18.691	ES
EXIST DD CHEWY B #23-25 - Wellbore #1 - Wellbore #1	9,100.00	6,610.71	1,466.95	1,380.87	17.042	SF
EXIST DD FERGUSON #24-5H4 - Wellbore #1 - Wellbore #1	12,884.22	6,951.10	606.20	411.80	3.118	CC
EXIST DD FERGUSON #24-5H4 - Wellbore #1 - Wellbore #1	12,900.00	6,957.99	606.36	410.93	3.103	ES
EXIST DD FERGUSON #24-5H4 - Wellbore #1 - Wellbore #1	13,000.00	7,000.71	615.13	413.59	3.052	SF
EXIST DD KUNER 6-0-25 - Wellbore #1 - Wellbore #1	16,319.32	6,781.30	2,703.51	2,408.23	9.156	CC
EXIST DD KUNER 6-0-25 - Wellbore #1 - Wellbore #1	16,400.00	6,777.00	2,704.71	2,407.18	9.091	ES
EXIST DD KUNER 6-0-25 - Wellbore #1 - Wellbore #1	17,000.00	6,755.15	2,787.77	2,473.47	8.870	SF
EXIST DD PETERSON CX GH #30-26D - Wellbore #1 - Wellbore #1	22,738.05	7,064.38	2,605.52	2,109.39	5.252	CC, ES, SF
EXIST DD PETERSON CX GH #30-27D - Wellbore #1 - Wellbore #1	21,607.12	6,749.26	2,580.08	2,138.22	5.839	CC
EXIST DD PETERSON CX GH #30-27D - Wellbore #1 - Wellbore #1	21,700.00	6,749.33	2,581.75	2,137.28	5.809	ES
EXIST DD PETERSON CX GH #30-27D - Wellbore #1 - Wellbore #1	22,000.00	6,749.56	2,609.82	2,156.93	5.763	SF
EXIST DD PETERSON CX GH #30-28D - Wellbore #1 - Wellbore #1	20,295.99	6,696.80	2,586.56	2,187.50	6.482	CC
EXIST DD PETERSON CX GH #30-28D - Wellbore #1 - Wellbore #1	20,400.00	6,696.91	2,588.65	2,186.67	6.440	ES
EXIST DD PETERSON CX GH #30-28D - Wellbore #1 - Wellbore #1	20,800.00	6,697.32	2,635.21	2,221.99	6.377	SF
EXIST DD UPRC #23-11H4 - Wellbore #1 - Wellbore #1	9,066.68	7,443.73	430.90	357.00	5.831	CC, ES, SF
EXIST DD UPRC #23-3H4 - Wellbore #1 - Wellbore #1	7,979.09	7,290.63	59.92	-7.90	0.884	Level 1, CC, ES, SF
EXIST DD UPV #23-1H4 - Wellbore #1 - Wellbore #1	11,731.52	6,480.65	1,749.53	1,596.83	11.457	CC
EXIST DD UPV #23-1H4 - Wellbore #1 - Wellbore #1	11,800.00	6,477.18	1,750.87	1,596.53	11.344	ES
EXIST DD UPV #23-1H4 - Wellbore #1 - Wellbore #1	12,200.00	6,456.82	1,811.01	1,647.17	11.054	SF
EXIST DD UPV #23-8H4 - Wellbore #1 - Wellbore #1	11,306.98	6,868.47	979.32	830.94	6.600	CC, ES
EXIST DD UPV #23-8H4 - Wellbore #1 - Wellbore #1	11,500.00	6,858.25	998.11	844.64	6.504	SF
EXIST HZ COCKROFT #19W-214 - Wellbore #1 - Wellbore #1	16,543.61	12,571.16	232.35	-210.33	0.525	Level 1, CC, ES, SF
EXIST HZ COCKROFT #19W-314 - ORIGINAL WELLBORE	19,014.67	10,136.00	452.67	14.38	1.033	Level 2, CC, ES, SF
EXIST HZ COCKROFT #19W-314 - SIDETRACK - SIDE	18,388.29	10,635.14	415.17	-14.70	0.966	Level 1, ES, SF
EXIST HZ COCKROFT #19W-314 - SIDETRACK - SIDE	18,739.03	10,284.30	413.60	-14.51	0.966	Level 1, CC
EXIST HZ CONNIE #26E-402 - Wellbore #1 - Wellbore #1	17,148.76	16,383.00	2,793.67	2,226.10	4.922	CC
EXIST HZ CONNIE #26E-402 - Wellbore #1 - Wellbore #1	17,200.00	16,383.00	2,794.14	2,225.13	4.911	ES
EXIST HZ CONNIE #26E-402 - Wellbore #1 - Wellbore #1	17,500.00	16,383.00	2,815.67	2,238.26	4.876	SF
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore #1	6,350.00	8,894.54	489.86	437.61	9.376	SF
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore #1	6,450.00	8,894.79	469.70	421.79	9.803	ES
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore #1	6,458.52	8,894.82	469.57	422.06	9.882	CC
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore #1	6,250.00	9,024.87	750.48	694.08	13.308	SF
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore #1	6,400.00	9,020.35	715.23	664.80	14.181	ES
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore #1	6,411.58	9,020.06	715.05	665.13	14.326	CC
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore #1	6,700.00	8,938.67	221.05	184.10	5.983	SF
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore #1	6,750.00	8,938.16	210.82	176.17	6.084	ES
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore #1	6,759.15	8,936.00	210.58	176.41	6.164	CC
EXIST HZ LEDFORD #22Y-401 - Wellbore #1 - Wellbore #1	7,015.73	8,968.62	202.04	173.98	7.198	CC, ES, SF
EXIST HZ SAPPINGTON #22Q-221 - Wellbore #1 - Wellbore #1	6,050.00	8,948.23	1,470.45	1,418.73	28.430	SF
EXIST HZ SAPPINGTON #22Q-221 - Wellbore #1 - Wellbore #1	6,227.58	8,944.27	1,438.01	1,389.47	29.628	CC, ES
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Wellbore #1	6,000.00	9,096.43	1,870.01	1,816.92	35.222	SF
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Wellbore #1	6,200.00	9,094.15	1,828.98	1,779.27	36.791	ES
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Wellbore #1	6,207.54	9,094.09	1,828.93	1,779.40	36.927	CC
EXIST HZ SAPPINGTON #22T-341 - Wellbore #1 - Wellbore #1	6,150.00	8,977.92	1,194.06	1,143.29	23.517	SF
EXIST HZ SAPPINGTON #22T-341 - Wellbore #1 - Wellbore #1	6,296.82	8,973.07	1,170.14	1,122.73	24.679	CC, ES
EXIST HZ SAPPINGTON #22T-201 - Wellbore #1 - Wellbore #1	6,200.00	8,915.98	860.97	810.89	17.194	SF
EXIST HZ SAPPINGTON #22T-201 - Wellbore #1 - Wellbore #1	6,331.09	8,913.77	839.08	792.13	17.870	CC, ES
EXIST VERT CPC-FERGUSON #23-1 - Wellbore #1 - Wellbore #1	10,162.03	6,469.24	354.77	254.16	3.526	CC, ES
EXIST VERT CPC-FERGUSON #23-1 - Wellbore #1 - Wellbore #1	10,200.00	6,468.94	356.79	255.16	3.511	SF

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 FERGUSON 23G-202
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB-EST @ 4598.00usft (Original Well Elev)
Reference Site:	SW NW SEC. 23 T5N R64W 6th P.M. (FERGUSON)	MD Reference:	KB-EST @ 4598.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FERGUSON 23G-202	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	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
NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE)						
EXIST VERT EMANCIPATOR #22-10 - Wellbore #1 - We	5,652.72	5,482.66	1,590.33	1,572.52	89.271	CC
EXIST VERT EMANCIPATOR #22-10 - Wellbore #1 - We	5,669.55	5,500.42	1,590.38	1,563.05	58.205	ES
EXIST VERT EMANCIPATOR #22-10 - Wellbore #1 - We	15,000.00	6,615.82	9,927.28	9,693.08	42.389	SF
EXIST VERT EMANCIPATOR #22-15 - Wellbore #1 - We	5,628.73	5,443.15	2,180.96	2,159.38	101.073	CC
EXIST VERT EMANCIPATOR #22-15 - Wellbore #1 - We	5,669.55	5,483.27	2,181.20	2,156.71	89.084	ES
EXIST VERT EMANCIPATOR #22-15 - Wellbore #1 - We	14,900.00	6,600.00	9,904.59	9,672.65	42.703	SF
EXIST VERT EMANCIPATOR #22-9 - Wellbore #1 - Wel	6,000.00	5,803.08	771.93	743.81	27.457	SF
EXIST VERT EMANCIPATOR #22-9 - Wellbore #1 - Wel	6,150.00	5,951.24	771.35	743.49	27.689	ES
EXIST VERT EMANCIPATOR #22-9 - Wellbore #1 - Wel	6,189.32	5,989.15	771.28	743.57	27.838	CC
EXIST VERT EMANCIPATOR B #22-23 - Wellbore #1 - W	5,613.83	5,433.03	1,452.36	1,428.60	61.131	CC, ES
EXIST VERT EMANCIPATOR B #22-23 - Wellbore #1 - W	15,700.00	6,600.00	9,985.92	9,731.75	39.289	SF
EXIST VERT FERGUSON B #23-22 - Wellbore #1 - Wel	10,972.07	6,475.75	81.98	-41.19	0.666	Level 1, CC, ES, SF
EXIST VERT ODLE #BB19-11 - Wellbore #1 - Wellbore #	19,695.82	6,416.13	538.08	171.66	1.468	Level 3, CC
EXIST VERT ODLE #BB19-11 - Wellbore #1 - Wellbore #	19,700.00	6,416.14	538.09	171.56	1.468	Level 3, ES, SF
EXIST VERT ODLE #BB19-12 - Wellbore #1 - Wellbore #	18,454.26	6,457.84	382.15	51.20	1.155	Level 2, CC, ES, SF
EXIST VERT ROTHE #16-24 - Wellbore #1 - Wellbore #1	16,989.49	5,975.00	2,071.33	1,786.89	7.282	CC
EXIST VERT ROTHE #16-24 - Wellbore #1 - Wellbore #1	17,000.00	5,975.00	2,071.35	1,786.63	7.275	ES
EXIST VERT ROTHE #16-24 - Wellbore #1 - Wellbore #1	17,400.00	5,975.00	2,111.61	1,815.94	7.142	SF
EXIST VERT UPRC #23-12A - Wellbore #1 - Wellbore #1	7,617.84	6,522.14	790.35	753.57	21.487	CC, ES
EXIST VERT UPRC #23-12A - Wellbore #1 - Wellbore #1	8,000.00	6,523.73	877.90	833.00	19.553	SF
EXIST VERT UPRC #23-5A - Wellbore #1 - Wellbore #1	405.89	381.74	557.23	556.14	510.531	CC, ES
EXIST VERT UPRC #23-5A - Wellbore #1 - Wellbore #1	8,300.00	6,496.18	969.73	917.98	18.737	SF
EXIST VERT UPRC #23-9H4 - Wellbore #1 - Wellbore #	11,628.74	6,473.55	947.91	806.83	6.719	CC, ES
EXIST VERT UPRC #23-9H4 - Wellbore #1 - Wellbore #	11,800.00	6,473.40	963.26	817.44	6.606	SF
WAYNE 22W-232 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,659.95	375.17	-527.95	0.415	Level 1, CC, ES, SF
WAYNE 22X-202 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,668.70	1,294.01	388.84	1.430	Level 3, CC, ES, SF
WAYNE 22X-232 - ORIGINAL WELLBORE - PROPOSA	1,495.91	1,200.00	1,492.24	1,485.72	228.877	CC
WAYNE 22X-232 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,715.20	1,753.99	849.11	1.938	ES, SF
WAYNE 22X-302 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,720.09	1,066.95	163.78	1.181	Level 2, CC, ES, SF
WAYNE 22X-312 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,713.69	609.24	-289.50	0.678	Level 1, CC, ES, SF
WAYNE 22X-332 - ORIGINAL WELLBORE - PROPOSA	1,591.83	1,300.00	1,466.68	1,459.55	205.695	CC
WAYNE 22X-332 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,770.78	1,525.58	621.58	1.688	ES, SF
WAYNE 22X-412 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,698.67	846.48	-44.93	0.950	Level 1, CC, ES, SF
WAYNE 22Y-212 - ORIGINAL WELLBORE - PROPOSA	1,337.75	1,042.52	1,539.50	1,533.86	273.143	CC
WAYNE 22Y-212 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,568.87	2,213.97	1,313.60	2.459	ES, SF
WAYNE 22Y-302 - ORIGINAL WELLBORE - PROPOSA	255.56	280.56	1,561.12	1,560.19	1,681.280	CC
WAYNE 22Y-302 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,968.50	2,444.94	1,540.71	2.704	ES, SF
WAYNE 22Y-312 - ORIGINAL WELLBORE - PROPOSA	1,395.48	1,100.00	1,515.09	1,509.16	255.607	CC
WAYNE 22Y-312 - ORIGINAL WELLBORE - PROPOSA	22,738.05	22,664.47	1,985.19	1,084.80	2.205	ES, SF
SW NW SEC. 23 T5N R64W 6th P.M. (FERGUSON)						
FERGUSON 23G-332 - ORIGINAL WELLBORE - PROP	300.00	300.00	15.01	13.94	14.001	CC
FERGUSON 23G-332 - ORIGINAL WELLBORE - PROP	22,738.05	22,836.74	160.09	-656.24	0.196	Level 1, ES, SF

Offset Design NE SE SEC. 22 T5N R64W 6th P.M. (WAYNE) - ABDN DD MONFORT #24-6H4 - Wellbore #1 - Wellbo												Offset Site Error:	0.00 usft
Survey Program: 489-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
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	106.73	-1,212.06	4,031.28	4,209.55				

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