

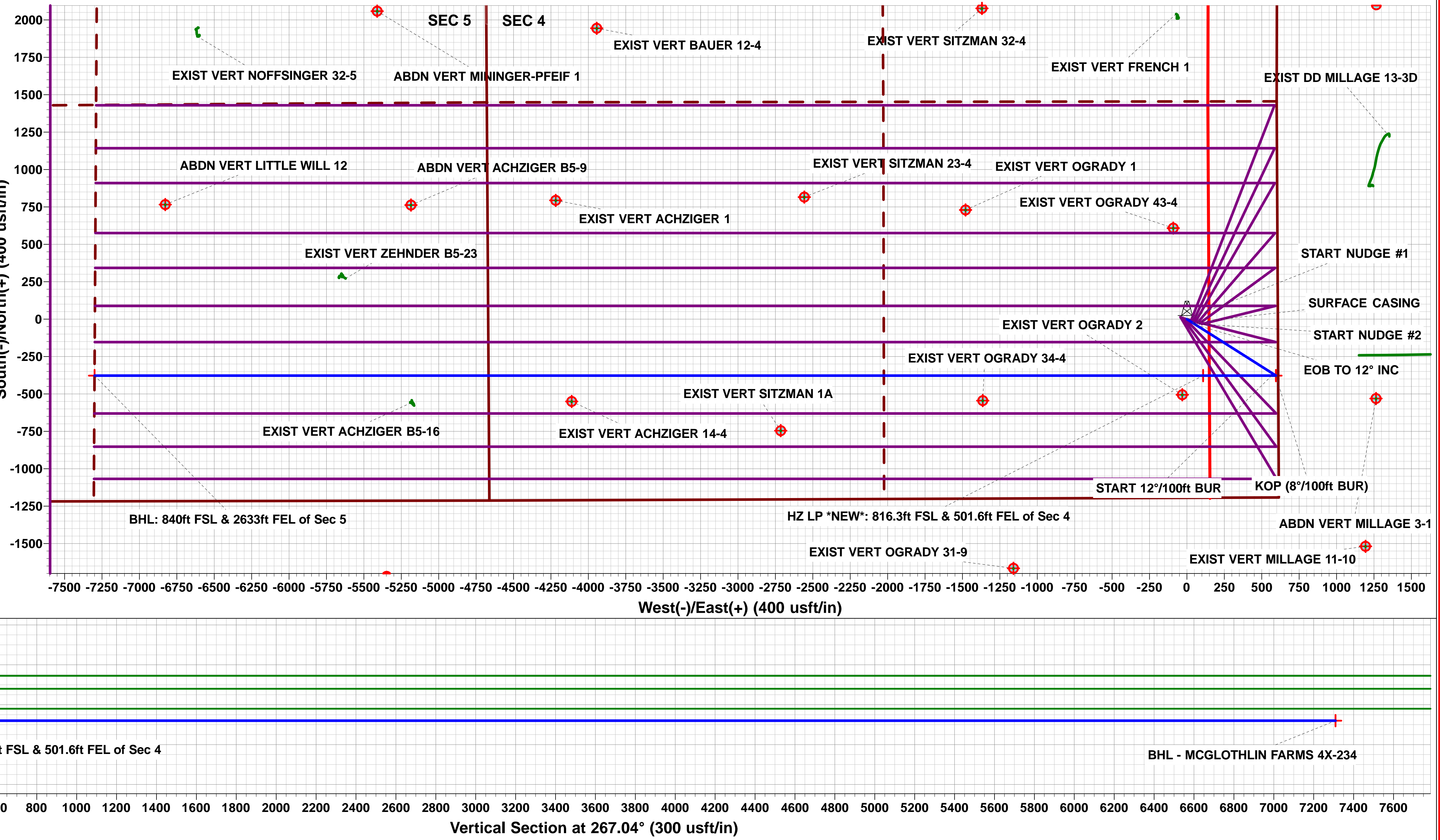
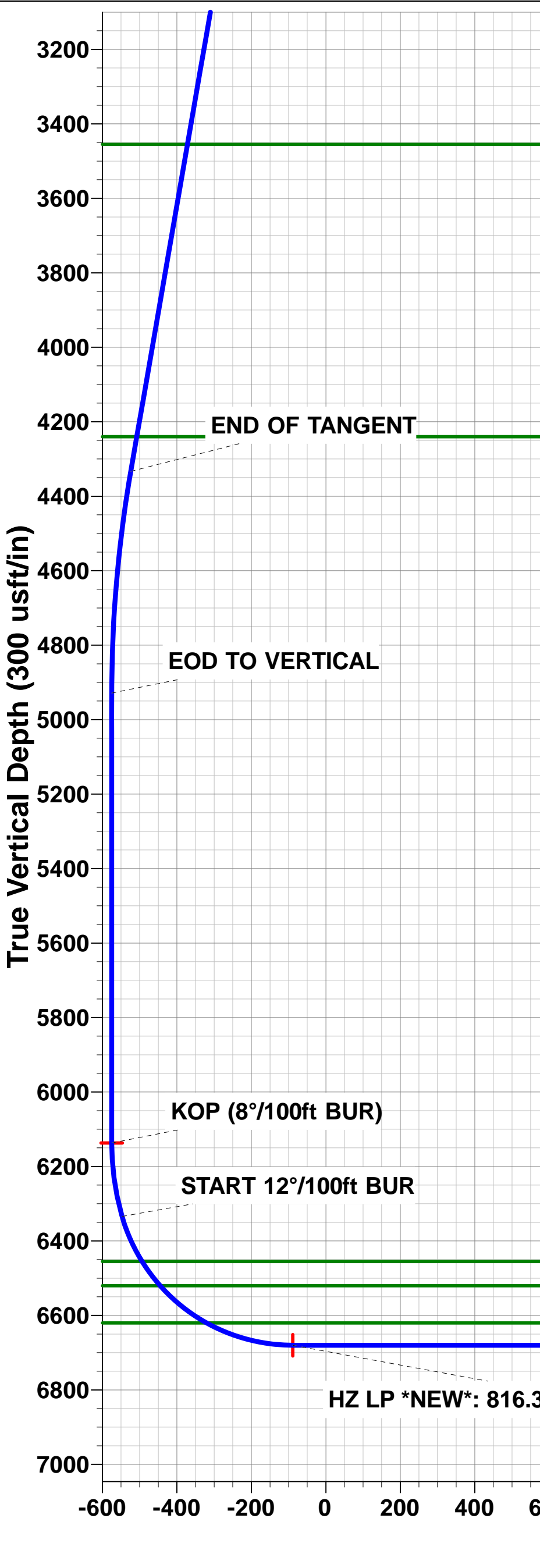
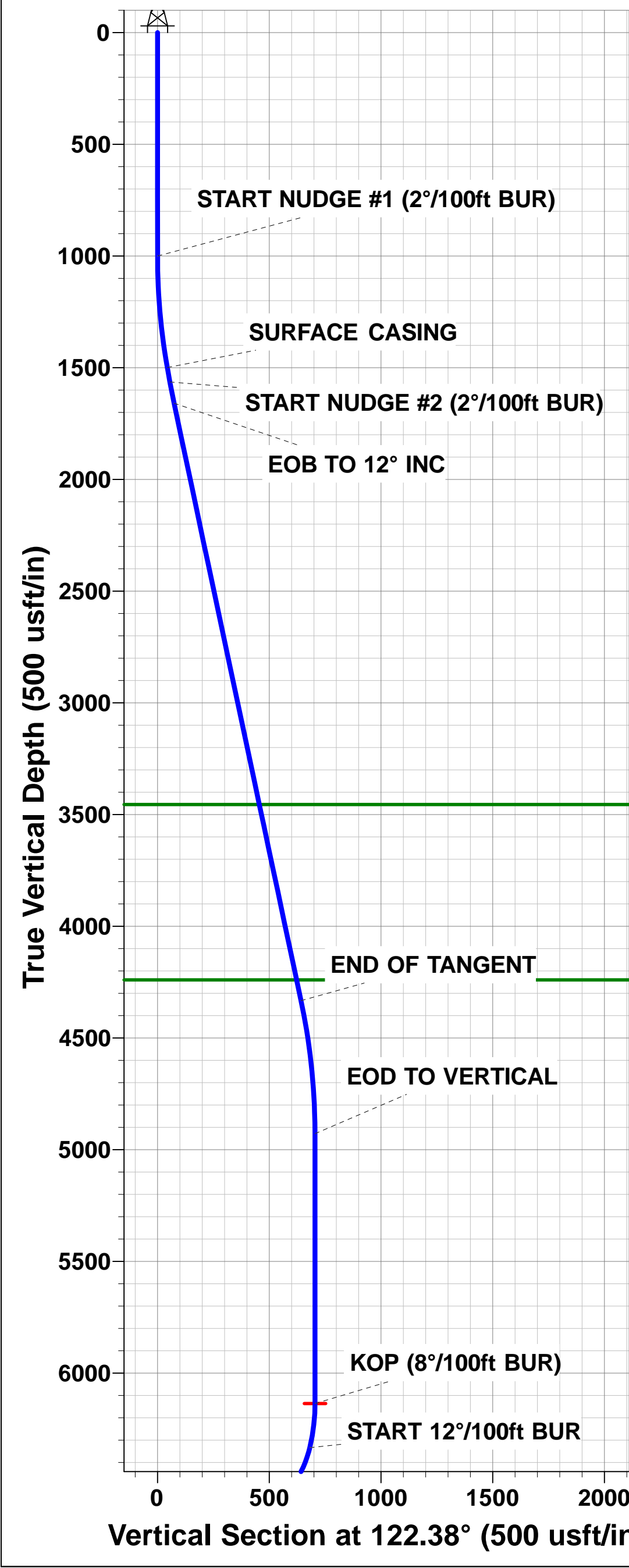
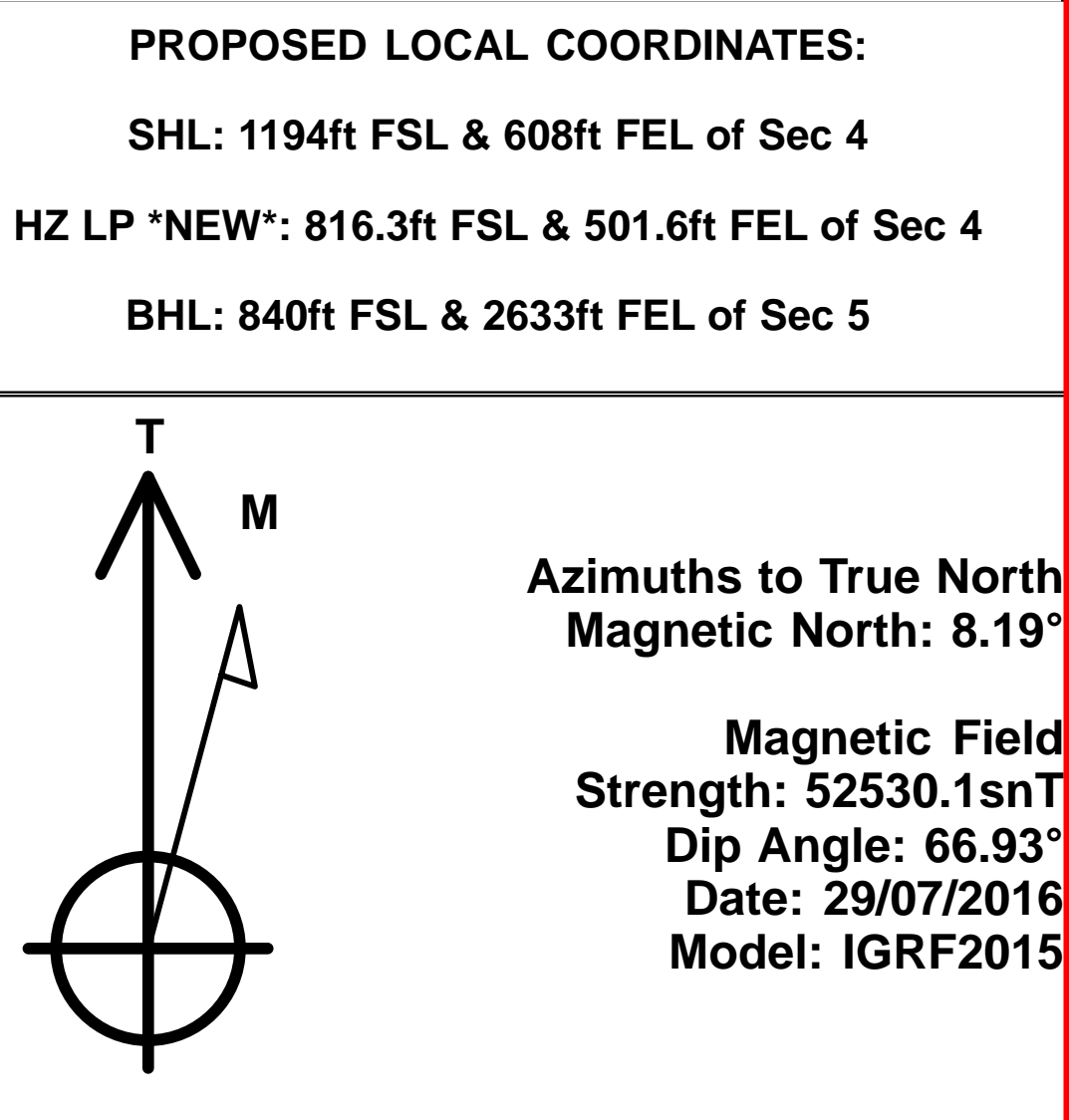
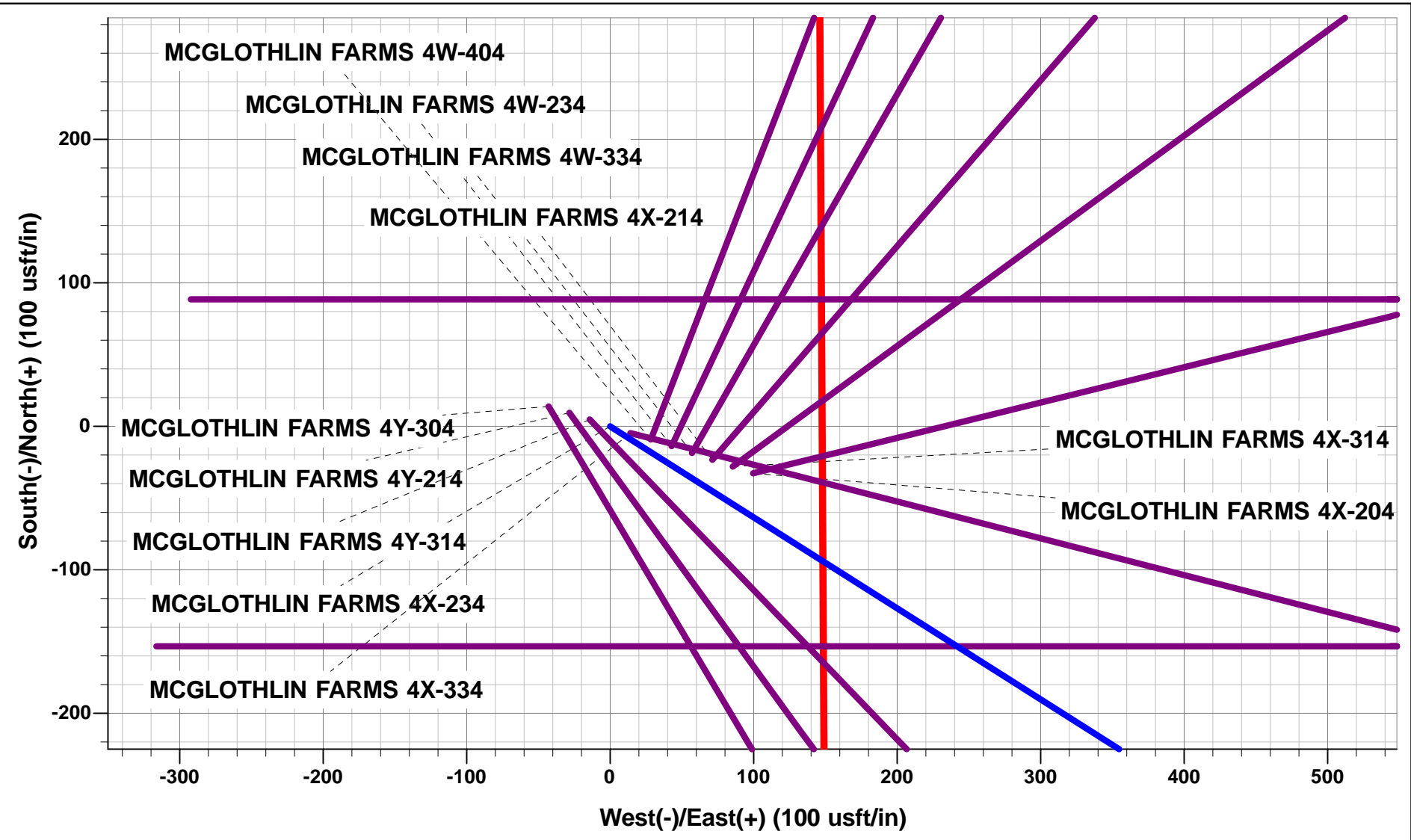


Project: WELD COUNTY, COLORADO
Site: SE SE SEC. 4 T5N R64W 6th P.M.
Well: MCGLOTHLIN FARMS 4X-234
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1



ANNOTATIONS									
TVD	MD	Inc	Azi	+N-S	+E-W	VSect	Dep	Annotation	
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 1194ft FSL & 608ft FEL of Sec 4	
1000.0	1000.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE #1 (2°/100ft BUR)	
1500.0	1502.6	10.05	122.38	-23.5	37.1	-35.9	44.0	SURFACE CASING	
1564.0	1567.6	10.05	122.38	-29.6	46.7	-45.1	55.3	START NUDGE #2 (2°/100ft BUR)	
1659.5	1664.9	12.00	122.38	-39.6	62.4	-60.3	73.9	EOB TO 12° INC	
4333.2	4398.3	12.00	122.38	-343.9	542.3	-523.8	642.1	END OF TANGENT	
4928.7	4998.2	0.00	0.00	-377.4	595.1	-574.8	704.7	EOD TO VERTICAL	
6136.7	6206.2	0.00	0.00	-377.4	595.1	-574.8	704.7	KOP (8°/100ft BUR)	
6334.1	6406.2	16.00	270.00	-377.4	567.4	-547.1	732.4	START 12°/100ft BUR	
6680.0	7022.8	90.00	270.00	-377.4	108.4	-88.8	1191.4	HZ LP *NEW*: 816.3ft FSL & 501.6ft FEL of Sec 4	
6680.0	14430.7	90.00	270.00	-377.4	-7299.5	7309.2	8599.3	BHL: 840ft FSL & 2633ft FEL of Sec 5	

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N-S	+E-W	Latitude	Longitude
KOP - MCGLOTHLIN FARMS 4X-234	6136.7	-377.4	595.1	40.423235	-104.545787
BHL - MCGLOTHLIN FARMS 4X-234	6680.0	-377.4	-7299.5	40.423232	-104.574141
HZ LP *NEW*- MCGLOTHLIN FARMS 4X-234	6680.0	-377.4	108.4	40.423235	-104.547535



PDC ENERGY

**WELD COUNTY, COLORADO
SE SE SEC. 4 T5N R64W 6th P.M.
MCGLOTHLIN FARMS 4X-234**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

29 July, 2016



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well MCGLOTHLIN FARMS 4X-234
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Reference Site:	SE SE SEC. 4 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	MCGLOTHLIN FARMS 4X-234	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 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 100.0usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 10,000.0 us
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program		Date	29/07/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,430.7	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
NW NW SEC. 5 T5N R64W 6th P.M.						
ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #	13,958.2	6,663.0	1,143.0	808.8	3.420	CC
ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #	14,000.0	6,663.0	1,143.8	808.4	3.411	ES
ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #	14,100.0	6,663.0	1,151.8	813.6	3.406	SF
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	14,430.7	6,400.0	2,592.0	2,375.5	11.973	CC, ES, SF
EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSAL	14,430.7	11,063.5	296.8	203.0	3.164	CC, ES, SF
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	14,430.7	11,024.5	559.0	466.7	6.057	CC, ES, SF
EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellbore	14,430.7	6,702.9	3,774.5	3,556.8	17.341	CC, ES, SF
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	13,738.0	6,668.5	2,325.5	2,127.1	11.716	CC
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	13,800.0	6,669.3	2,326.4	2,126.1	11.619	ES
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	14,430.7	6,677.9	2,426.5	2,208.6	11.136	SF
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	14,430.7	6,611.6	1,395.9	1,178.4	6.418	CC, ES, SF
EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1	14,430.7	6,646.7	611.3	393.7	2.809	CC, ES, SF
SE SE SEC. 4 T5N R64W 6th P.M.						
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Design #1	12,316.4	6,672.0	1,140.1	851.7	3.954	CC, ES
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Design #1	12,400.0	6,672.0	1,143.2	852.5	3.933	SF
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,206.2	6,123.7	686.0	547.1	4.940	CC, ES, SF
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,542.2	6,683.0	2,436.0	2,141.2	8.264	CC
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,600.0	6,683.0	2,436.7	2,140.3	8.221	ES
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	13,100.0	6,683.0	2,499.1	2,188.7	8.052	SF
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,490.3	6,672.0	1,497.3	1,314.4	8.188	CC
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,500.0	6,672.0	1,497.3	1,314.2	8.176	ES
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,800.0	6,672.0	1,529.0	1,337.9	8.000	SF
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	3,467.1	3,435.8	1,410.7	1,392.0	75.664	CC
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	3,600.0	3,561.7	1,411.1	1,391.7	72.470	ES
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	14,430.7	6,685.8	8,637.0	8,407.5	37.631	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,206.2	10,966.0	764.8	619.8	5.275	ES, SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,464.8	10,966.0	668.2	623.5	14.922	CC
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellbore	12,311.3	6,659.6	164.4	6.0	1.038	Level 2, CC, ES, SF
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Design #1	11,242.1	6,666.0	172.7	-87.8	0.663	Level 1, CC, ES, SF
EXIST VERT ACHZINGER 1 - Wellbore #1 - Design #1	11,349.2	6,678.0	1,171.2	907.6	4.443	CC
EXIST VERT ACHZINGER 1 - Wellbore #1 - Design #1	11,400.0	6,678.0	1,172.3	907.3	4.424	ES
EXIST VERT ACHZINGER 1 - Wellbore #1 - Design #1	11,500.0	6,678.0	1,180.9	913.1	4.410	SF
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,075.0	6,680.0	2,321.7	2,065.7	9.070	CC
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,100.0	6,680.0	2,321.8	2,065.1	9.046	ES
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,700.0	6,680.0	2,404.3	2,130.9	8.794	SF
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,109.3	6,643.0	1,546.2	1,291.8	6.078	CC, 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 MCGLOTHLIN FARMS 4X-234
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Reference Site:	SE SE SEC. 4 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	MCGLOTHLIN FARMS 4X-234	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 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
SE SE SEC. 4 T5N R64W 6th P.M.						
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,400.0	6,643.0	1,573.3	1,310.8	5.994	SF
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,794.8	6,651.0	1,518.3	1,300.3	6.963	CC
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,800.0	6,651.0	1,518.3	1,300.2	6.959	ES
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	10,100.0	6,651.0	1,548.7	1,322.2	6.838	SF
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	1,000.0	987.0	2,452.9	2,431.3	113.694	CC
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	2,400.0	2,365.6	2,468.5	2,414.7	45.848	ES
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	6,525.0	6,430.1	2,588.0	2,442.1	17.734	SF
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	1,005.9	988.3	2,038.8	2,036.1	749.504	CC, ES
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	14,430.7	6,625.8	7,616.5	7,398.9	34.996	SF
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,478.9	6,644.0	1,341.6	1,049.0	4.585	CC
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,500.0	6,644.0	1,341.7	1,048.5	4.576	ES
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,700.0	6,644.0	1,359.7	1,060.9	4.551	SF
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	7,094.4	6,669.0	1,476.2	1,325.0	9.763	CC
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	7,100.0	6,669.0	1,476.2	1,325.0	9.759	ES
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	7,400.0	6,669.0	1,507.5	1,351.2	9.643	SF
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	6,206.2	6,116.7	1,288.5	1,150.3	9.323	CC, ES, SF
EXIST VERT OGRADY 1 - Wellbore #1 - Design #1	8,610.1	6,677.0	1,107.2	918.9	5.880	CC, ES
EXIST VERT OGRADY 1 - Wellbore #1 - Design #1	8,800.0	6,677.0	1,123.3	930.0	5.810	SF
EXIST VERT OGRADY 2 - Wellbore #1 - Design #1	7,161.8	6,673.0	127.9	-26.5	0.829	Level 1, CC, ES, SF
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,290.1	6,661.0	1,287.8	1,110.3	7.255	CC
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,300.0	6,661.0	1,287.9	1,110.1	7.245	ES
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,500.0	6,661.0	1,304.8	1,121.8	7.130	SF
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	8,495.2	6,669.0	167.2	-17.9	0.903	Level 1, CC
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	8,500.0	6,669.0	167.3	-18.0	0.903	Level 1, ES, SF
EXIST VERT OGRADY 43-4 - Wellbore #1 - Design #1	1,000.0	984.0	615.5	594.0	28.571	CC
EXIST VERT OGRADY 43-4 - Wellbore #1 - Design #1	1,100.0	1,084.0	616.7	592.9	25.959	ES
EXIST VERT OGRADY 43-4 - Wellbore #1 - Design #1	7,300.0	6,664.0	989.2	832.7	6.319	SF
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	9,852.0	6,674.0	2,533.2	2,311.2	11.409	CC
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	9,900.0	6,674.0	2,533.6	2,310.3	11.344	ES
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	10,700.0	6,674.0	2,671.4	2,425.9	10.881	SF
EXIST VERT SITZMAN 1A - Wellbore #1 - Design #1	9,845.3	6,676.0	368.2	146.3	1.660	CC, ES, SF
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Design #1	9,687.9	6,668.0	1,193.2	975.8	5.487	CC
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Design #1	9,700.0	6,668.0	1,193.3	975.5	5.479	ES
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Design #1	9,900.0	6,668.0	1,211.9	988.6	5.428	SF
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,500.6	6,675.0	2,454.4	2,269.0	13.242	CC
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,600.0	6,675.0	2,456.4	2,268.4	13.067	ES
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	9,400.0	6,675.0	2,614.0	2,404.3	12.470	SF
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,796.9	6,669.1	653.3	481.5	3.802	CC
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,800.0	6,669.1	653.4	481.4	3.801	ES
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,900.0	6,668.5	661.4	486.7	3.786	SF
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	700.0	700.0	45.1	42.2	15.698	CC
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	800.0	799.8	45.3	42.0	13.654	ES
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	14,430.7	14,507.5	1,519.9	1,088.8	3.525	SF
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	600.0	600.0	60.0	57.6	24.796	CC
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	700.0	699.5	60.4	57.5	21.059	ES
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	14,430.7	14,530.5	1,288.8	858.1	2.993	SF
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	800.0	800.0	29.8	26.5	8.984	CC
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	900.0	899.9	30.0	26.2	7.954	ES
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	14,430.7	14,720.3	1,812.4	1,382.8	4.219	SF
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	300.0	300.0	104.9	103.9	97.868	CC
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	14,430.7	14,404.7	466.0	33.4	1.077	Level 2, ES, SF
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	500.0	500.0	75.0	73.0	38.044	CC, ES
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	14,430.7	14,428.9	953.1	521.4	2.208	SF

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 MCGLOTHLIN FARMS 4X-234
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Reference Site:	SE SE SEC. 4 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	MCGLOTHLIN FARMS 4X-234	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 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
Offset Well - Wellbore - Design						
SE SE SEC. 4 T5N R64W 6th P.M.						
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	400.0	400.0	90.0	88.4	59.120	CC, ES
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	14,430.7	14,489.4	722.8	292.4	1.679	SF
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	900.0	900.0	15.0	11.2	3.971	CC
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	14,430.7	14,482.1	233.3	-183.0	0.560	Level 1, ES, SF
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	1,000.0	1,000.0	29.9	25.7	7.096	CC, ES
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	14,430.7	14,490.4	475.1	43.5	1.101	Level 2, SF
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	1,000.0	1,000.0	45.1	40.8	10.680	CC, ES
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	14,430.7	14,601.9	691.5	260.8	1.606	SF
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	1,000.0	1,000.0	15.0	10.7	3.548	CC
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	14,430.7	14,511.0	260.2	-160.3	0.619	Level 1, ES, SF

Offset Design NW NW SEC. 5 T5N R64W 6th P.M. - ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-INC													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-83.60		765.6	-6,827.0	6,869.8				
100.0	100.0	83.0	83.0	0.1	0.0	-83.60		765.6	-6,827.0	6,869.8	6,869.7	0.09	N/A	
200.0	200.0	183.0	183.0	0.3	0.9	-83.60		765.6	-6,827.0	6,869.8	6,868.6	1.17	5,855.461	
300.0	300.0	283.0	283.0	0.5	3.0	-83.60		765.6	-6,827.0	6,869.8	6,866.3	3.51	1,959.717	
400.0	400.0	383.0	383.0	0.8	5.1	-83.60		765.6	-6,827.0	6,869.8	6,863.9	5.85	1,173.771	
500.0	500.0	483.0	483.0	1.0	7.1	-83.60		765.6	-6,827.0	6,869.8	6,861.6	8.13	845.339	
600.0	600.0	583.0	583.0	1.2	9.2	-83.60		765.6	-6,827.0	6,869.8	6,859.4	10.38	661.644	
700.0	700.0	683.0	683.0	1.4	11.2	-83.60		765.6	-6,827.0	6,869.8	6,857.1	12.63	543.860	
800.0	800.0	783.0	783.0	1.7	13.2	-83.60		765.6	-6,827.0	6,869.8	6,854.9	14.88	461.798	
900.0	900.0	883.0	883.0	1.9	15.2	-83.60		765.6	-6,827.0	6,869.8	6,852.6	17.12	401.309	
1,000.0	1,000.0	983.0	983.0	2.1	17.2	-83.60		765.6	-6,827.0	6,869.8	6,850.4	19.36	354.860	
1,100.0	1,100.0	1,083.0	1,083.0	2.3	19.3	154.01		765.6	-6,827.0	6,871.3	6,849.8	21.57	318.611	
1,200.0	1,199.8	1,182.8	1,182.8	2.5	21.3	153.99		765.6	-6,827.0	6,876.0	6,852.3	23.73	289.754	
1,300.0	1,299.5	1,282.5	1,282.5	2.7	23.3	153.95		765.6	-6,827.0	6,883.9	6,858.0	25.87	266.127	
1,400.0	1,398.7	1,381.7	1,381.7	2.9	25.3	153.90		765.6	-6,827.0	6,894.8	6,866.9	27.97	246.514	
1,500.0	1,497.5	1,480.5	1,480.5	3.2	27.3	153.83		765.6	-6,827.0	6,908.9	6,878.9	30.03	230.044	
1,502.6	1,500.0	1,483.0	1,483.0	3.2	27.3	153.83		765.6	-6,827.0	6,909.3	6,879.2	30.09	229.657	
1,567.6	1,564.0	1,547.0	1,547.0	3.4	28.6	153.87		765.6	-6,827.0	6,919.5	6,888.0	31.50	219.672	
1,600.0	1,595.9	1,578.9	1,578.9	3.5	29.2	153.84		765.6	-6,827.0	6,924.8	6,892.6	32.16	215.356	
1,664.9	1,659.5	1,642.5	1,642.5	3.7	30.5	153.79		765.6	-6,827.0	6,936.3	6,902.8	33.46	207.306	
1,700.0	1,693.9	1,676.9	1,676.9	3.8	31.2	153.81		765.6	-6,827.0	6,942.9	6,908.6	34.23	202.849	
1,800.0	1,791.7	1,774.7	1,774.7	4.2	33.2	153.89		765.6	-6,827.0	6,961.6	6,925.2	36.42	191.156	
1,900.0	1,889.5	1,872.5	1,872.5	4.6	35.2	153.96		765.6	-6,827.0	6,980.3	6,941.7	38.62	180.753	
2,000.0	1,987.3	1,970.3	1,970.3	5.0	37.1	154.04		765.6	-6,827.0	6,999.1	6,958.3	40.82	171.443	
2,100.0	2,085.1	2,068.1	2,068.1	5.4	39.1	154.11		765.6	-6,827.0	7,017.9	6,974.8	43.04	163.067	
2,200.0	2,182.9	2,165.9	2,165.9	5.8	41.1	154.18		765.6	-6,827.0	7,036.7	6,991.4	45.25	155.496	
2,300.0	2,280.8	2,263.8	2,263.8	6.2	43.0	154.26		765.6	-6,827.0	7,055.5	7,008.0	47.47	148.621	
2,400.0	2,378.6	2,361.6	2,361.6	6.7	45.0	154.33		765.6	-6,827.0	7,074.3	7,024.6	49.70	142.352	
2,500.0	2,476.4	2,459.4	2,459.4	7.1	47.0	154.40		765.6	-6,827.0	7,093.1	7,041.2	51.92	136.613	
2,600.0	2,574.2	2,557.2	2,557.2	7.5	48.9	154.48		765.6	-6,827.0	7,111.9	7,057.8	54.15	131.342	
2,700.0	2,672.0	2,655.0	2,655.0	8.0	50.9	154.55		765.6	-6,827.0	7,130.8	7,074.4	56.38	126.484	
2,800.0	2,769.8	2,752.8	2,752.8	8.4	52.9	154.62		765.6	-6,827.0	7,149.6	7,091.0	58.61	121.993	
2,900.0	2,867.6	2,850.6	2,850.6	8.9	54.8	154.69		765.6	-6,827.0	7,168.5	7,107.6	60.84	117.829	

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