

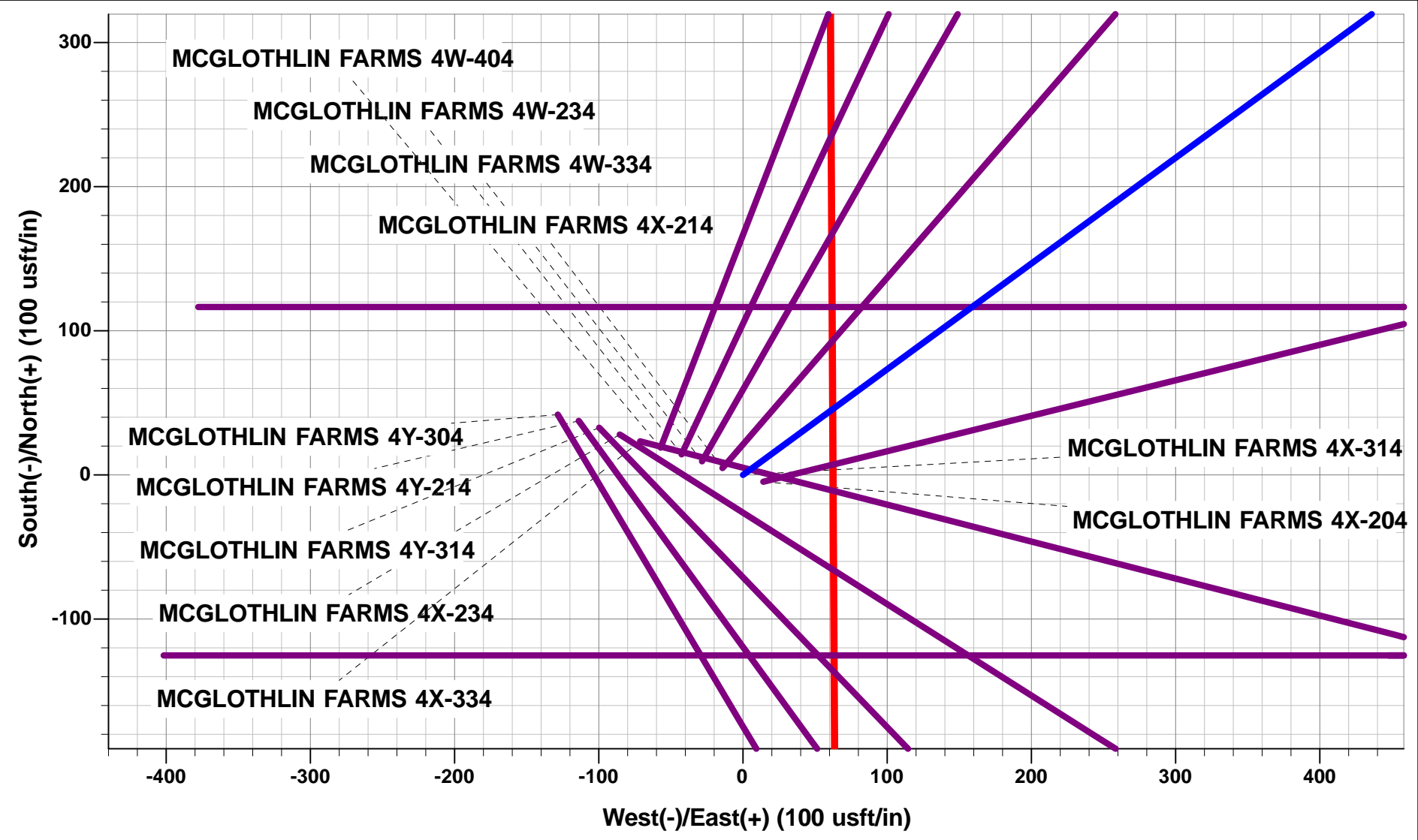


Project: WELD COUNTY, COLORADO
Site: SE SE SEC. 4 T5N R64W 6th P.M.
Well: MCGLOTHLIN FARMS 4X-314
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1



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: 1166ft FSL & 522ft FEL of Sec 4	
400.0	400.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDDGE (2°/100ft BUR)	
995.8	1000.2	12.00	53.76	37.0	50.5	-48.6	62.6	EOB TO 12° INC	
3353.9	3411.0	12.00	53.76	333.5	454.9	-437.6	564.0	END OF TANGENT	
3949.7	4011.2	0.00	0.00	370.5	505.4	-486.2	626.7	EOD TO VERTICAL	
6211.7	6273.2	0.00	0.00	370.5	505.4	-486.2	626.7	KOP (8°/100ft BUR)	
6409.1	6473.2	16.00	270.00	370.5	477.7	-458.5	654.4	START 12°/100ft BUR	
6755.0	7090.4	90.07	270.00	370.5	18.1	0.5	1114.0	HZ LP *NEW*: 1535.9ft FSL & 502.2ft FEL of Sec 4	
6745.0	14489.4	90.08	270.00	370.5	-7380.8	7390.1	8512.9	BHL: 1560ft FSL & 2624ft FEL of Sec 5	

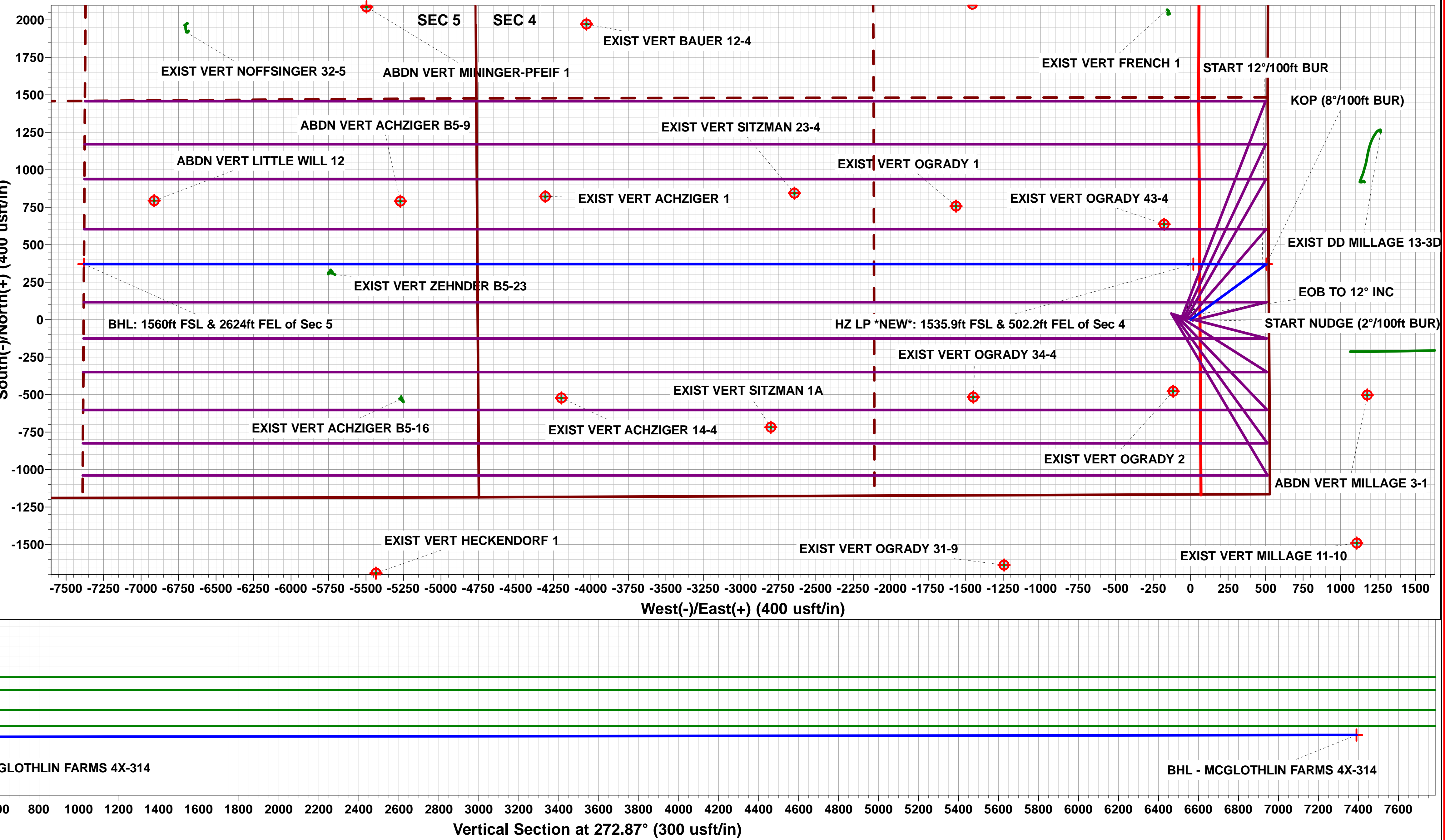
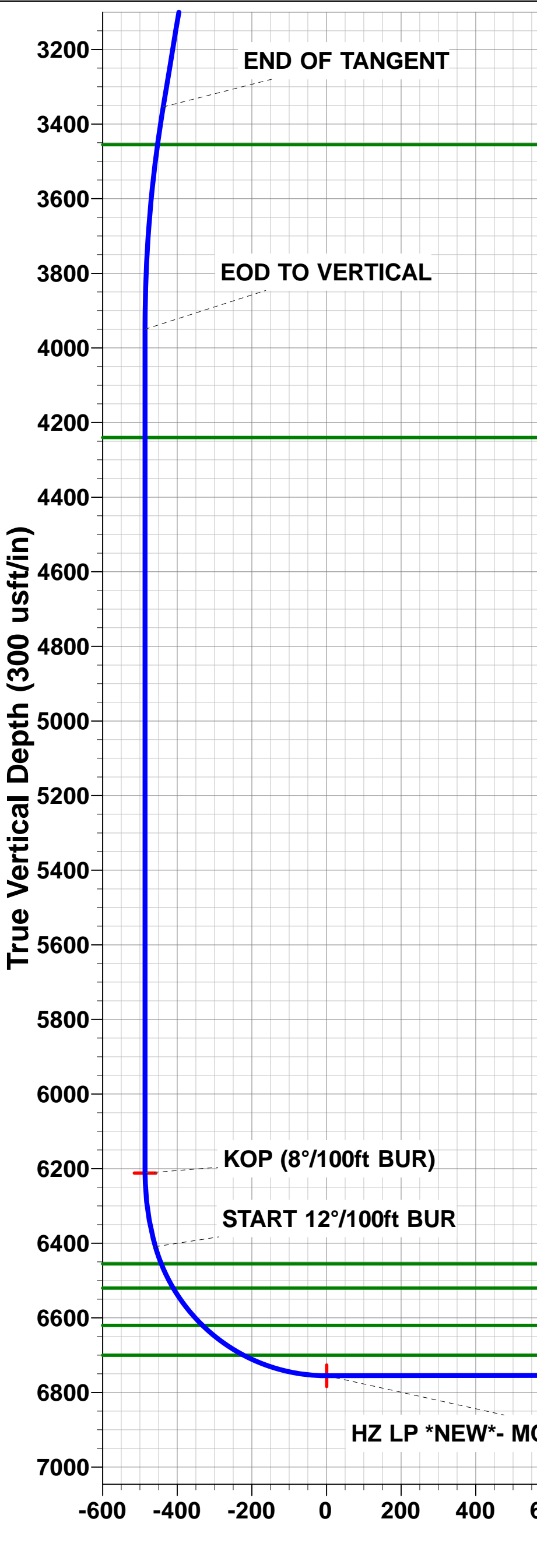
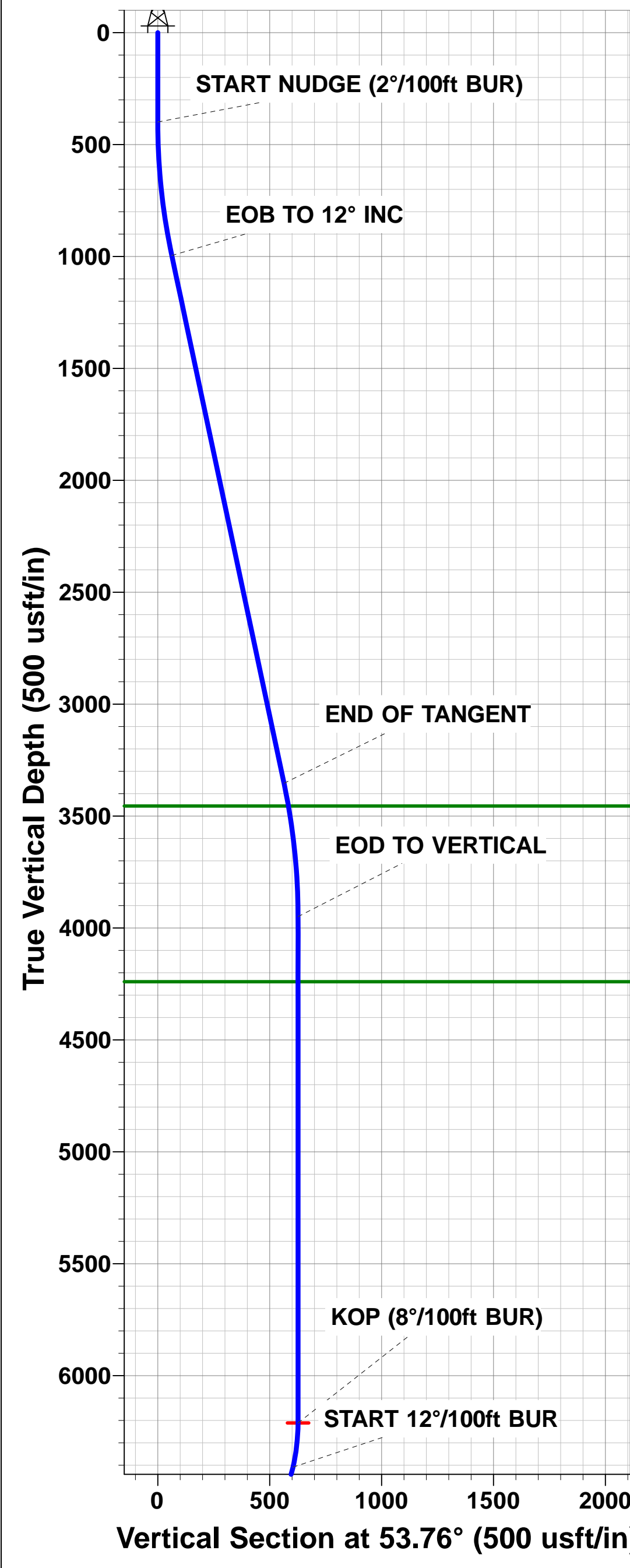
WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - MCGLOTHLIN FARMS 4X-314	6211.7	370.5	505.4	40.425211	-104.545802
BHL - MCGLOTHLIN FARMS 4X-314	6745.0	370.5	-7380.8	40.425208	-104.574127
HZ LP *NEW*- MCGLOTHLIN FARMS 4X-314	6755.0	370.5	18.1	40.425211	-104.547552



PROPOSED LOCAL COORDINATES:
SHL: 1166ft FSL & 522ft FEL of Sec 4
HZ LP *NEW*: 1535.9ft FSL & 502.2ft FEL of Sec 4
BHL: 1560ft FSL & 2624ft FEL of Sec 5

Azimuths to True North
Magnetic North: 8.19°

Magnetic Field
Strength: 52530.1snT
Dip Angle: 66.93°
Date: 29/07/2016
Model: IGRF2015



PDC ENERGY

**WELD COUNTY, COLORADO
SE SE SEC. 4 T5N R64W 6th P.M.
MCGLOTHLIN FARMS 4X-314**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

29 July, 2016



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well MCGLOTHLIN FARMS 4X-314
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-314	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	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 us	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 29/07/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	14,489.4	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 #	14,021.0	6,728.7	423.2	87.3	1.260	Level 3, CC, ES, SF
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	14,489.4	6,400.0	1,921.2	1,706.2	8.937	CC, ES, SF
EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSAL	14,489.4	10,343.1	304.6	216.0	3.438	CC, ES, SF
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	14,489.4	10,304.1	557.0	470.0	6.402	CC, ES, SF
EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellb	14,489.4	6,765.4	3,067.5	2,849.6	14.077	CC, ES, SF
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb	13,801.7	6,733.0	1,605.9	1,407.1	8.075	CC, ES
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb	14,200.0	6,737.8	1,654.6	1,444.5	7.878	SF
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	14,489.4	6,713.0	916.5	698.6	4.206	CC, ES, SF
EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1	14,489.4	6,699.2	997.2	779.4	4.578	CC, ES, SF
SE SE SEC. 4 T5N R64W 6th P.M.						
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Design #1	12,379.2	6,740.0	420.2	130.2	1.449	Level 3, CC
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Design #1	12,400.0	6,740.0	420.8	130.1	1.448	Level 3, ES, SF
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,273.2	6,198.7	1,102.1	966.0	8.094	CC
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,300.0	6,225.5	1,102.4	962.0	7.848	ES
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,350.0	6,275.4	1,104.6	963.4	7.820	SF
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,605.0	6,750.7	1,716.2	1,419.7	5.788	CC
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,700.0	6,750.6	1,718.8	1,419.6	5.746	ES
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,900.0	6,750.3	1,741.3	1,436.6	5.714	SF
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,553.1	6,745.1	2,217.2	2,032.6	12.014	CC
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,600.0	6,745.1	2,217.7	2,031.9	11.936	ES
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	9,300.0	6,744.2	2,339.6	2,134.9	11.430	SF
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	4,952.9	4,928.5	845.6	818.8	31.473	CC
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	5,100.0	5,073.1	845.9	818.5	30.930	ES
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	6,273.2	6,248.0	854.4	823.0	27.234	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,500.0	10,966.0	859.8	747.4	7.651	ES
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,501.3	10,966.0	859.8	747.4	7.651	CC
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,950.0	10,966.0	1,083.2	940.3	7.579	SF
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,374.2	6,729.1	884.1	725.3	5.566	CC
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,400.0	6,729.1	884.5	724.9	5.544	ES
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,500.0	6,729.1	893.0	730.7	5.501	SF
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Design #1	11,305.0	6,735.5	892.6	630.4	3.404	CC, ES
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Design #1	11,400.0	6,735.4	897.6	632.8	3.389	SF
EXIST VERT ACHZINGER 1 - Wellbore #1 - Design #1	11,412.0	6,747.4	451.4	186.1	1.701	CC, ES, SF
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,137.8	6,749.7	1,601.8	1,344.1	6.216	CC
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,200.0	6,749.7	1,603.1	1,343.6	6.179	ES
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,400.0	6,749.4	1,623.2	1,358.2	6.125	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-314
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-314	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	11,172.1	6,712.7	2,266.1	2,009.9	8.848	CC
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,200.0	6,712.7	2,266.2	2,009.3	8.822	ES
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,700.0	6,712.0	2,326.7	2,055.9	8.591	SF
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,857.6	6,722.5	2,238.2	2,018.4	10.184	CC
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,900.0	6,722.4	2,238.6	2,017.6	10.132	ES
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	10,500.0	6,721.6	2,328.6	2,091.0	9.803	SF
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	6,273.2	6,198.7	1,883.7	1,742.7	13.360	CC, ES
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	6,500.0	6,421.7	1,896.8	1,753.5	13.238	SF
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	7,261.1	6,732.3	1,669.9	1,647.2	73.617	CC
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	7,300.0	6,732.1	1,670.3	1,647.0	71.646	ES
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	12,100.0	6,706.9	5,118.8	4,967.8	33.892	SF
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,541.7	6,711.8	2,061.4	1,767.1	7.004	CC
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,600.0	6,711.7	2,062.2	1,766.3	6.968	ES
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,900.0	6,711.3	2,092.3	1,788.0	6.875	SF
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	400.0	389.0	1,826.2	1,820.3	308.590	CC
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	500.0	489.0	1,827.3	1,819.1	223.282	ES
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	8,000.0	6,742.8	2,352.2	2,182.0	13.821	SF
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	668.7	648.3	1,857.2	1,845.3	156.147	CC
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	6,300.0	6,218.5	1,956.2	1,816.1	13.957	ES
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	6,525.0	6,438.1	1,970.3	1,826.7	13.717	SF
EXIST VERT OGRADY 1 - Wellbore #1 - Design #1	8,672.9	6,750.0	387.3	197.4	2.039	CC, ES
EXIST VERT OGRADY 1 - Wellbore #1 - Design #1	8,700.0	6,750.0	388.3	197.6	2.036	SF
EXIST VERT OGRADY 2 - Wellbore #1 - Design #1	400.0	393.0	491.2	483.0	60.148	CC
EXIST VERT OGRADY 2 - Wellbore #1 - Design #1	500.0	493.0	492.5	482.1	47.295	ES
EXIST VERT OGRADY 2 - Wellbore #1 - Design #1	7,300.0	6,747.7	851.1	694.2	5.426	SF
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,352.9	6,734.4	2,007.7	1,828.5	11.206	CC
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,400.0	6,734.3	2,008.2	1,827.8	11.133	ES
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	9,000.0	6,733.6	2,109.4	1,913.0	10.739	SF
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	8,558.0	6,742.1	887.1	700.2	4.748	CC
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	8,600.0	6,742.1	888.0	700.1	4.725	ES
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	8,700.0	6,742.0	898.3	707.7	4.713	SF
EXIST VERT OGRADY 43-4 - Wellbore #1 - Design #1	7,285.0	6,738.7	266.3	109.8	1.701	CC, ES, SF
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	9,914.8	6,745.4	1,813.3	1,589.6	8.104	CC
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	10,000.0	6,745.3	1,815.4	1,589.2	8.029	ES
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	10,300.0	6,744.9	1,853.8	1,619.4	7.909	SF
EXIST VERT SITZMAN 1A - Wellbore #1 - Design #1	9,908.1	6,747.4	1,088.0	864.4	4.866	CC, ES
EXIST VERT SITZMAN 1A - Wellbore #1 - Design #1	10,100.0	6,747.1	1,104.8	875.9	4.827	SF
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Design #1	9,750.7	6,739.6	473.4	254.2	2.160	CC, ES
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Design #1	9,800.0	6,739.5	476.0	255.4	2.158	SF
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,563.4	6,748.1	1,734.5	1,547.5	9.274	CC
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,600.0	6,748.1	1,734.9	1,546.9	9.229	ES
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	9,000.0	6,747.6	1,788.6	1,589.9	9.000	SF
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,859.2	6,736.7	66.5	-105.7	0.386	Level 1, CC, ES, SF
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	400.0	400.0	44.9	43.4	29.511	CC, ES
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	14,489.4	14,507.5	802.7	372.3	1.865	SF
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	400.0	400.0	29.9	28.4	19.674	CC, ES
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	14,489.4	14,530.5	567.2	135.7	1.315	Level 3, SF
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	400.0	400.0	60.1	58.6	39.521	CC, ES
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	14,489.4	14,720.3	1,089.6	659.7	2.534	SF
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	300.0	300.0	15.0	13.9	13.960	CC
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	14,489.4	14,403.3	262.1	-157.6	0.624	Level 1, ES, SF
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	400.0	400.0	15.0	13.4	9.837	CC
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	14,489.4	14,428.9	242.1	-176.0	0.579	Level 1, ES, 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-314
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-314	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-234 - ORIGINAL WELLBORE	400.0	400.0	90.0	88.4	59.120	CC, ES
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	14,489.4	14,425.9	722.8	292.5	1.680	SF
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	400.0	400.0	75.0	73.5	49.283	CC
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	14,489.4	14,479.0	495.8	63.6	1.147	Level 2, ES, SF
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	400.0	400.0	119.9	118.4	78.794	CC, ES
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	14,489.4	14,486.5	1,196.7	765.6	2.776	SF
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	400.0	400.0	135.0	133.5	88.730	CC, ES
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	14,489.4	14,597.7	1,410.0	978.3	3.266	SF
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	400.0	400.0	104.9	103.4	68.957	CC, ES
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	14,489.4	14,508.8	973.1	541.4	2.254	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 (usft)	Offset (usft)	Semi Major Axis (usft)	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	-83.45		793.7	-6,912.4	6,957.9				
100.0	100.0	83.0	83.0	0.1	0.0	-83.45		793.7	-6,912.4	6,957.9	6,957.8	0.09	N/A	
200.0	200.0	183.0	183.0	0.3	0.9	-83.45		793.7	-6,912.4	6,957.9	6,956.7	1.17	5,930.548	
300.0	300.0	283.0	283.0	0.5	3.0	-83.45		793.7	-6,912.4	6,957.9	6,954.3	3.51	1,984.847	
400.0	400.0	383.0	383.0	0.8	5.1	-83.45		793.7	-6,912.4	6,957.9	6,952.0	5.85	1,188.823	
500.0	500.0	483.0	483.0	1.0	7.1	-137.20		793.7	-6,912.4	6,959.1	6,951.0	8.12	857.137	
600.0	599.8	582.8	582.8	1.2	9.2	-137.17		793.7	-6,912.4	6,963.0	6,952.6	10.36	672.272	
700.0	699.5	682.5	682.5	1.4	11.2	-137.14		793.7	-6,912.4	6,969.4	6,956.8	12.58	553.966	
800.0	798.7	781.7	781.7	1.7	13.2	-137.08		793.7	-6,912.4	6,978.3	6,963.5	14.79	471.743	
900.0	897.5	880.5	880.5	2.0	15.2	-137.01		793.7	-6,912.4	6,989.9	6,972.9	16.99	411.295	
1,000.0	995.6	978.6	978.6	2.4	17.2	-136.92		793.7	-6,912.4	7,003.9	6,984.7	19.19	365.008	
1,000.2	995.8	978.8	978.8	2.4	17.2	-136.92		793.7	-6,912.4	7,003.9	6,984.8	19.19	364.939	
1,100.0	1,093.4	1,076.4	1,076.4	2.8	19.1	-137.04		793.7	-6,912.4	7,019.3	6,997.8	21.45	327.230	
1,200.0	1,191.3	1,174.3	1,174.3	3.2	21.1	-137.15		793.7	-6,912.4	7,034.7	7,010.9	23.72	296.537	
1,300.0	1,289.1	1,272.1	1,272.1	3.6	23.1	-137.26		793.7	-6,912.4	7,050.1	7,024.1	26.00	271.145	
1,400.0	1,386.9	1,369.9	1,369.9	4.0	25.0	-137.38		793.7	-6,912.4	7,065.5	7,037.2	28.28	249.807	
1,500.0	1,484.7	1,467.7	1,467.7	4.5	27.0	-137.49		793.7	-6,912.4	7,081.0	7,050.4	30.57	231.634	
1,600.0	1,582.5	1,565.5	1,565.5	4.9	29.0	-137.60		793.7	-6,912.4	7,096.5	7,063.6	32.86	215.978	
1,700.0	1,680.3	1,663.3	1,663.3	5.3	30.9	-137.71		793.7	-6,912.4	7,112.0	7,076.9	35.15	202.354	
1,800.0	1,778.1	1,761.1	1,761.1	5.8	32.9	-137.83		793.7	-6,912.4	7,127.6	7,090.1	37.44	190.391	
1,900.0	1,875.9	1,858.9	1,858.9	6.2	34.9	-137.94		793.7	-6,912.4	7,143.2	7,103.4	39.73	179.807	
2,000.0	1,973.8	1,956.8	1,956.8	6.7	36.9	-138.05		793.7	-6,912.4	7,158.8	7,116.7	42.02	170.375	
2,100.0	2,071.6	2,054.6	2,054.6	7.1	38.8	-138.16		793.7	-6,912.4	7,174.4	7,130.1	44.31	161.920	
2,200.0	2,169.4	2,152.4	2,152.4	7.6	40.8	-138.27		793.7	-6,912.4	7,190.0	7,143.4	46.60	154.296	
2,300.0	2,267.2	2,250.2	2,250.2	8.0	42.8	-138.38		793.7	-6,912.4	7,205.7	7,156.8	48.89	147.388	
2,400.0	2,365.0	2,348.0	2,348.0	8.5	44.7	-138.48		793.7	-6,912.4	7,221.4	7,170.3	51.18	141.100	
2,500.0	2,462.8	2,445.8	2,445.8	8.9	46.7	-138.59		793.7	-6,912.4	7,237.2	7,183.7	53.47	135.351	
2,600.0	2,560.6	2,543.6	2,543.6	9.4	48.7	-138.70		793.7	-6,912.4	7,252.9	7,197.2	55.76	130.077	
2,700.0	2,658.5	2,641.5	2,641.5	9.8	50.6	-138.81		793.7	-6,912.4	7,268.7	7,210.7	58.05	125.219	
2,800.0	2,756.3	2,739.3	2,739.3	10.3	52.6	-138.91		793.7	-6,912.4	7,284.5	7,224.2	60.34	120.732	
2,900.0	2,854.1	2,837.1	2,837.1	10.7	54.6	-139.02		793.7	-6,912.4	7,300.4	7,237.7	62.62	116.574	
3,000.0	2,951.9	2,934.9	2,934.9	11.2	56.5	-139.13		793.7	-6,912.4	7,316.2	7,251.3	64.91	112.711	
3,100.0	3,049.7	3,032.7	3,032.7	11.6	58.5	-139.23		793.7	-6,912.4	7,332.1	7,264.9	67.20	109.112	

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