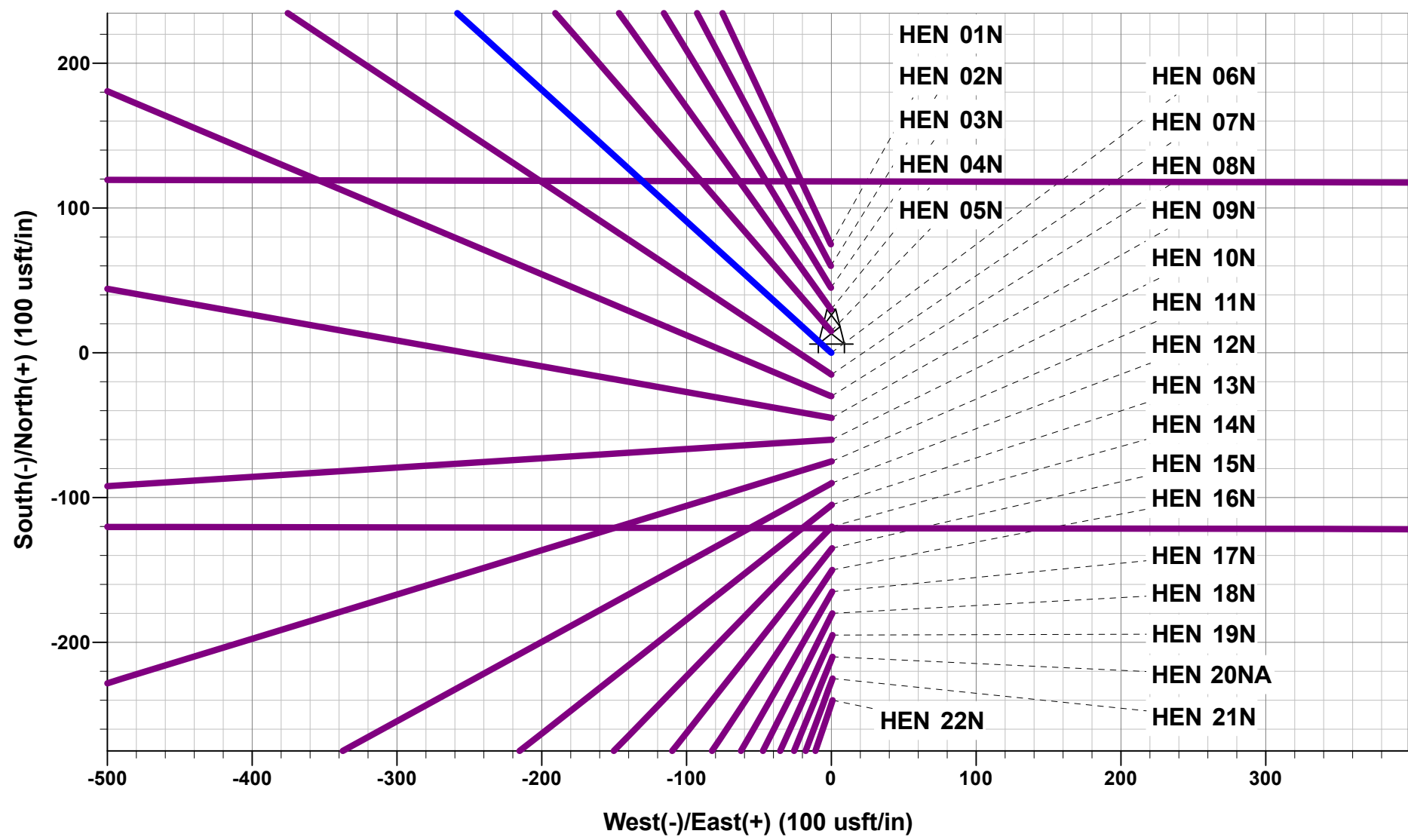




Project: WELD COUNTY, COLORADO (TRUE)  
Site: SW NE SEC. 8 T4N R64W 6th P.M. (HEN)  
Well: HEN 06N  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #2

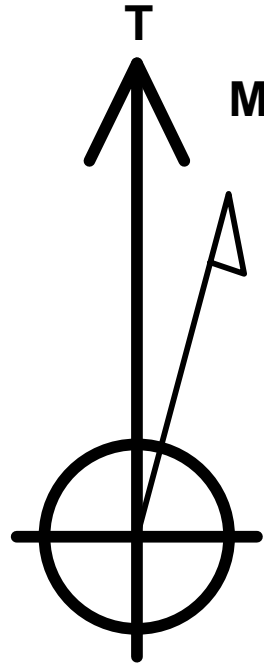
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 2159ft FNL & 2044ft FEL of Sec 8
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
1575.43	15.51	312.27	1566.00	70.15	-77.19	-68.62	104.31	EOB TO 15.51° INC
5461.77	15.51	312.27	5310.84	769.04	-846.19	-752.24	1143.44	END OF TANGENT
6237.20	0.00	0.00	6076.83	839.19	-923.38	-820.86	1247.75	EOD TO VERTICAL
6337.20	0.00	0.00	6176.83	839.19	-923.38	-820.86	1247.75	KOP (8°/100ft BUR)
7274.69	75.00	90.10	6868.62	838.26	-392.55	-293.65	1778.57	EP: 1319ft FNL & 2440ft FEL of Sec 8
7468.08	90.47	90.10	6893.00	837.92	-201.30	-103.70	1969.83	HZ LANDING POINT
14799.56	90.47	90.11	6833.00	824.55	7129.92	7177.44	9301.06	BHL: 1318ft FNL & 200ft FEL of Sec 9



PROPOSED LOCAL COORDINATES:

SHL: 2159ft FNL & 2044ft FEL of Sec 8  
EP: 1319ft FNL & 2440ft FEL of Sec 8  
BHL: 1318ft FNL & 200ft FEL of Sec 9

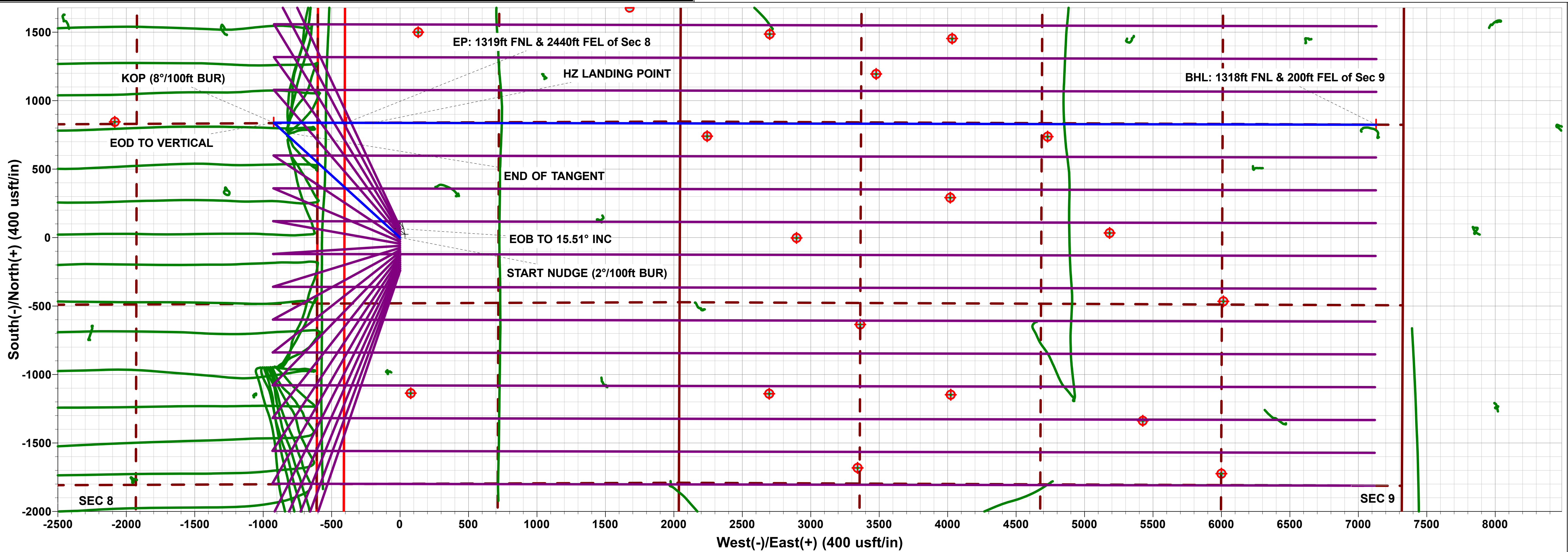
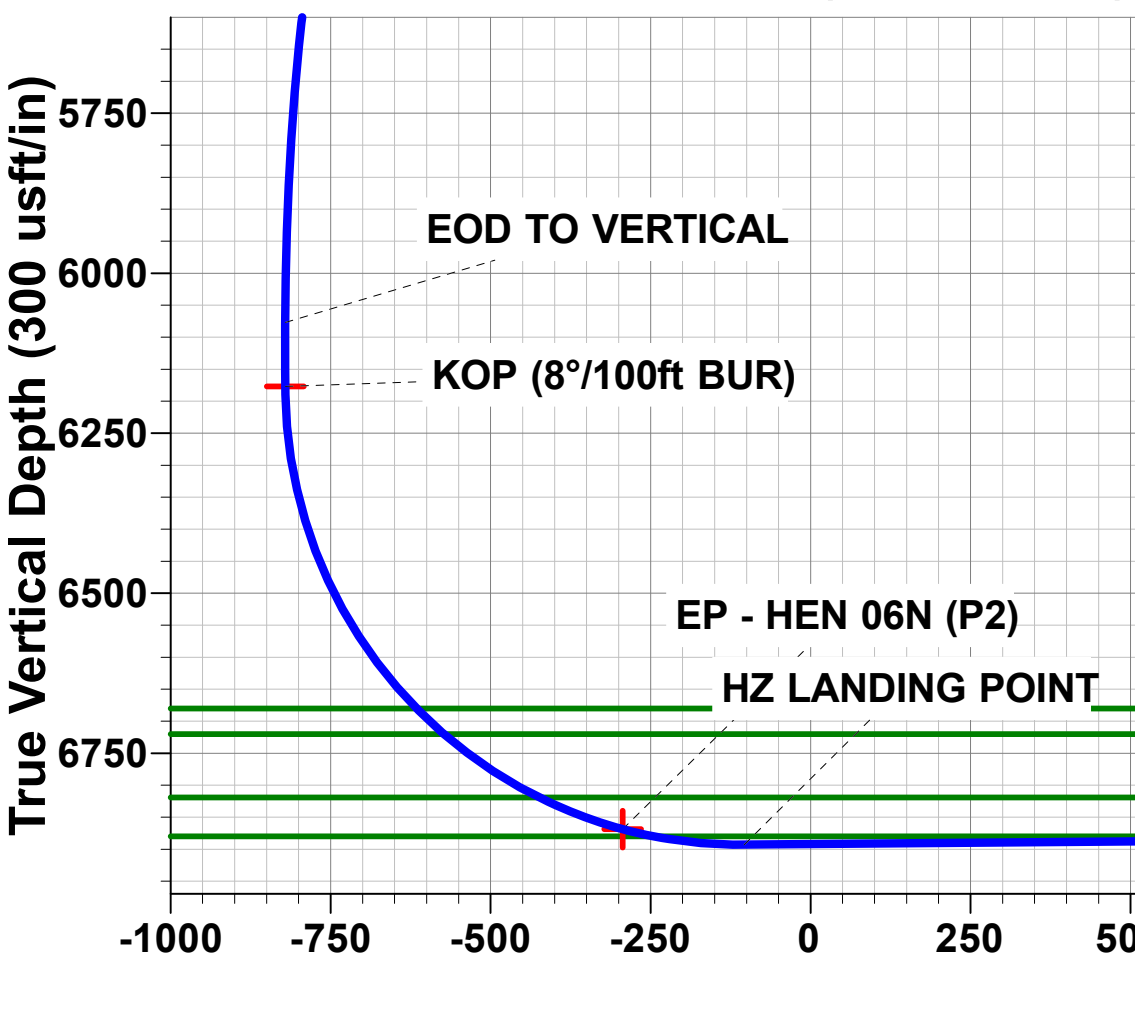
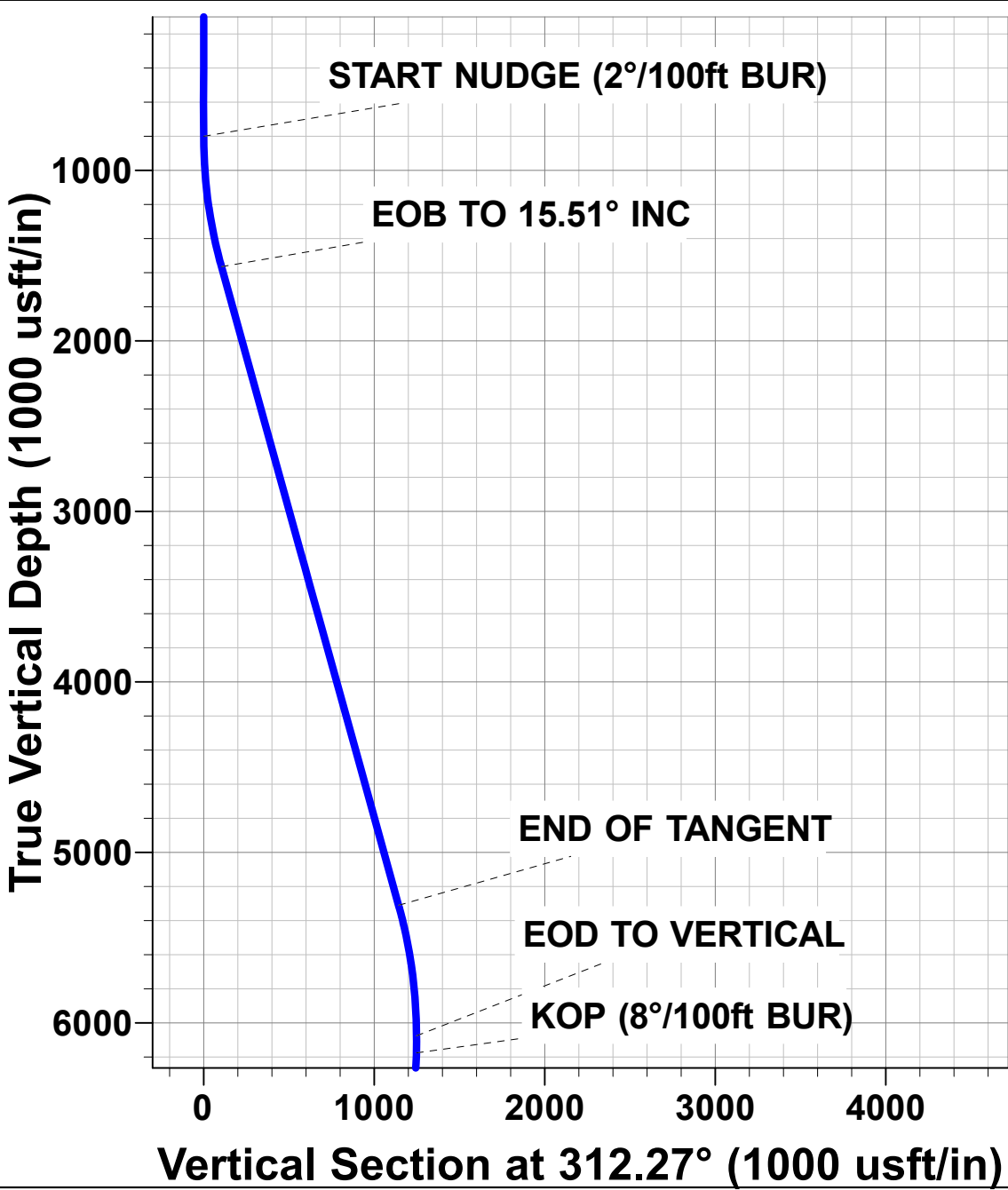


Azimuths to True North  
Magnetic North: 7.76°

Magnetic Field  
Strength: 51953.1nT  
Dip Angle: 66.63°  
Date: 2021-04-19  
Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - HEN 06N (P2)	6833.00	824.55	7129.92	1364659.66	3265751.12	40.330471	-104.546772
EP - HEN 06N (P2)	6868.62	838.26	-392.55	1364594.67	3258229.23	40.330511	-104.573753
KOP - HEN 06N (P2)	6176.83	839.19	-923.38	1364590.05	3257698.44	40.330514	-104.575656





## **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)  
SW NE SEC. 8 T4N R64W 6th P.M. (HEN)  
HEN 06N**

**ORIGINAL WELLBORE  
PROPOSAL #2**

# **Anticollision Summary Report**

**19 June, 2022**



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HEN 06N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4803.00usft
<b>Reference Site:</b>	SW NE SEC. 8 T4N R64W 6th P.M. (HEN)	<b>MD Reference:</b>	KB 23ft @ 4803.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HEN 06N	<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>	Database 1
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #2		
<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 centre distance of 3,280.83usft	<b>Error Surface:</b>	Ellipsoid Separation
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	2022-06-19		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	14,799.56	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
Offset Well - Wellbore - Design						
SW NE SEC. 8 T4N R64W 6th P.M. (HEN)						
ABDN DD ALTER C 16-28D - Wellbore #1 - Wellbore #1						Out of range
ABDN DD ALTER C 16-29D - ORIGINAL WELLBORE - W						Out of range
ABDN DD ALTER C 16-29D - SIDETRACK - SIDETRAC						Out of range
ABDN HZ FRANKLIN C08-62HNX - ORIGINAL WELLBO						Out of range
ABDN HZ FRANKLIN C08-62HNX - SIDETRACK - SIDE	8,521.01	10,803.00	3,236.48	3,070.04	19.446	CC
ABDN HZ FRANKLIN C08-62HNX - SIDETRACK - SIDE	8,600.00	10,803.00	3,237.44	3,069.28	19.252	ES
ABDN HZ FRANKLIN C08-62HNX - SIDETRACK - SIDE	9,000.00	10,803.00	3,271.73	3,096.27	18.647	SF
ABDN VERT CONQUEST SWD 1-8 - Wellbore #1 - Des	800.00	712.00	3,167.40	3,151.82	203.280	CC
ABDN VERT CONQUEST SWD 1-8 - Wellbore #1 - Des	900.00	811.98	3,169.10	3,151.28	177.847	ES
ABDN VERT CONQUEST SWD 1-8 - Wellbore #1 - Des	1,600.00	1,501.67	3,275.66	3,242.26	98.087	SF
ABDN VERT COX 8-1 - Wellbore #1 - Wellbore #1	6,353.06	6,167.63	808.48	788.98	41.475	CC, ES
ABDN VERT COX 8-1 - Wellbore #1 - Wellbore #1	6,400.00	6,215.90	809.17	789.66	41.469	SF
ABDN VERT COX PM C 8-4 - Wellbore #1 - Wellbore #1	6,360.29	6,231.80	1,680.54	1,662.01	90.662	CC, ES
ABDN VERT COX PM C 8-4 - Wellbore #1 - Wellbore #1	6,500.00	6,371.99	1,692.82	1,674.01	90.013	SF
ABDN VERT COX PM C 8-5 - Wellbore #1 - Wellbore #1	6,342.48	6,186.84	1,839.54	1,813.54	70.747	CC, ES
ABDN VERT COX PM C 8-5 - Wellbore #1 - Wellbore #1	6,400.00	6,245.01	1,841.77	1,815.71	70.667	SF
ABDN VERT GEHRING 8-1514 - Wellbore #1 - Wellbore	827.51	770.03	2,158.82	2,156.57	961.271	CC, ES
ABDN VERT GEHRING 8-1514 - Wellbore #1 - Wellbore	9,600.00	6,837.07	3,268.26	3,200.98	48.577	SF
ABDN VERT GEHRING C 8-10X - Wellbore #1 - Wellbor	100.00	60.77	973.23	973.09	6,738.062	CC
ABDN VERT GEHRING C 8-10X - Wellbore #1 - Wellbor	600.00	560.16	973.85	972.37	658.180	ES
ABDN VERT GEHRING C 8-10X - Wellbore #1 - Wellbor	8,700.00	6,849.56	2,124.71	2,078.85	46.328	SF
ABDN VERT HAGEN 9-16 - Wellbore #1 - Design #1						Out of range
ABDN VERT HEISER 1 - Wellbore #1 - Design #1	800.00	755.00	1,139.02	1,122.57	69.246	CC
ABDN VERT HEISER 1 - Wellbore #1 - Design #1	900.00	854.98	1,140.28	1,121.59	61.022	ES
ABDN VERT HEISER 1 - Wellbore #1 - Design #1	8,200.00	6,842.00	2,024.24	1,848.82	11.540	SF
ABDN VERT LEVI C 5-15 - Wellbore #1 - Wellbore #1	8,048.53	6,846.71	2,081.39	2,044.27	56.069	CC
ABDN VERT LEVI C 5-15 - Wellbore #1 - Wellbore #1	8,100.00	6,846.73	2,082.02	2,043.80	54.476	ES
ABDN VERT LEVI C 5-15 - Wellbore #1 - Wellbore #1	9,300.00	6,847.15	2,428.67	2,367.55	39.738	SF
ABDN VERT REINICK 1 - Wellbore #1 - Wellbore #1	13,900.00	6,745.74	324.58	129.60	1.665	ES, SF
ABDN VERT REINICK 1 - Wellbore #1 - Wellbore #1	13,900.86	6,745.73	324.58	129.61	1.665	CC
ABDN VERT REINICK 2 - Wellbore #1 - Wellbore #1	12,978.18	6,750.62	618.84	449.34	3.651	CC
ABDN VERT REINICK 2 - Wellbore #1 - Wellbore #1	13,000.00	6,750.62	619.23	449.04	3.639	ES, SF
ABDN VERT REINICK 9-7 - Wellbore #1 - Design #1	12,854.14	6,748.89	794.58	495.10	2.653	CC, ES
ABDN VERT REINICK 9-7 - Wellbore #1 - Design #1	12,900.00	6,748.52	795.90	495.84	2.652	SF
ABDN VERT RICHARDSON 10-12 - Wellbore #1 - Wellb	14,799.56	6,627.03	2,264.00	2,060.70	11.136	CC, ES, SF
ABDN VERT RUFF 1 - Wellbore #1 - Design #1	7,800.54	6,859.67	662.80	494.92	3.948	CC, ES, SF

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 HEN 06N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4803.00usft
<b>Reference Site:</b>	SW NE SEC. 8 T4N R64W 6th P.M. (HEN)	<b>MD Reference:</b>	KB 23ft @ 4803.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HEN 06N	<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>	Database 1
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	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						
SW NE SEC. 8 T4N R64W 6th P.M. (HEN)						
ABDN VERT RYANN STATE C 16-27 - Wellbore #1 - We						Out of range
ABDN VERT RYDGREN 8-1 - Wellbore #1 - Wellbore #1	6,349.07	6,230.42	2,618.32	2,589.24	90.022	CC
ABDN VERT RYDGREN 8-1 - Wellbore #1 - Wellbore #1	6,350.00	6,231.19	2,618.32	2,589.24	90.019	ES
ABDN VERT RYDGREN 8-1 - Wellbore #1 - Wellbore #1	6,400.00	6,272.17	2,619.59	2,590.48	89.987	SF
ABDN VERT SLEDGE C 9-28 - Wellbore #1 - Design #1	12,347.02	6,784.04	1,083.84	797.76	3.789	CC
ABDN VERT SLEDGE C 9-28 - Wellbore #1 - Design #1	12,400.00	6,783.61	1,085.14	797.53	3.773	ES, SF
ABDN VERT SLEDGE C 9-29 - Wellbore #1 - Design #1	11,008.67	6,815.99	1,139.46	889.81	4.564	CC, ES
ABDN VERT SLEDGE C 9-29 - Wellbore #1 - Design #1	11,100.00	6,815.24	1,143.11	890.98	4.534	SF
ABDN VERT SMITH 1 - Wellbore #1 - Design #1	10,368.37	6,824.23	653.69	421.47	2.815	CC
ABDN VERT SMITH 1 - Wellbore #1 - Design #1	10,400.00	6,823.97	654.45	421.28	2.807	ES, SF
ABDN VERT SMITH 2 - Wellbore #1 - Design #1	11,701.13	6,800.32	623.51	355.05	2.323	CC, ES, SF
ABDN VERT SMITH 3 - Wellbore #1 - Design #1	11,689.51	6,787.71	538.66	270.78	2.011	CC
ABDN VERT SMITH 3 - Wellbore #1 - Design #1	11,700.00	6,787.62	538.76	270.74	2.010	ES, SF
ABDN VERT STATE 16-214 - Wellbore #1 - Wellbore #1						Out of range
ABDN VERT THEA C 09-32 - Wellbore #1 - Wellbore #1	9,828.15	6,815.09	1,307.98	1,225.52	15.862	CC, ES
ABDN VERT THEA C 09-32 - Wellbore #1 - Wellbore #1	10,100.00	6,808.55	1,335.91	1,248.80	15.335	SF
EXIST DD ALTER C 09-24D - Wellbore #1 - Wellbore #1	12,436.48	7,305.31	2,611.29	2,414.92	13.298	CC
EXIST DD ALTER C 09-24D - Wellbore #1 - Wellbore #1	12,500.00	7,305.96	2,612.06	2,414.44	13.217	ES
EXIST DD ALTER C 09-24D - Wellbore #1 - Wellbore #1	12,800.00	7,309.01	2,636.47	2,434.55	13.057	SF
EXIST DD ALTER C 09-33D - Wellbore #1 - Wellbore #1	9,650.27	6,965.24	2,616.27	2,520.89	27.432	CC
EXIST DD ALTER C 09-33D - Wellbore #1 - Wellbore #1	9,700.00	6,964.73	2,616.74	2,519.96	27.038	ES
EXIST DD ALTER C 09-33D - Wellbore #1 - Wellbore #1	10,600.00	6,955.48	2,783.29	2,667.10	23.956	SF
EXIST DD BURMAN C 04-33D - Wellbore #1 - Wellbore	9,832.50	6,967.85	2,642.40	2,538.32	25.387	CC
EXIST DD BURMAN C 04-33D - Wellbore #1 - Wellbore	9,900.00	6,967.73	2,643.26	2,537.45	24.982	ES
EXIST DD BURMAN C 04-33D - Wellbore #1 - Wellbore	10,700.00	6,966.49	2,781.16	2,659.79	22.914	SF
EXIST DD BURMAN C 05-23D - Wellbore #1 - Wellbore	8,418.30	6,920.43	2,602.27	2,542.36	43.435	CC
EXIST DD BURMAN C 05-23D - Wellbore #1 - Wellbore	8,500.00	6,920.78	2,603.55	2,541.54	41.985	ES
EXIST DD BURMAN C 05-23D - Wellbore #1 - Wellbore	9,800.00	6,926.08	2,946.35	2,856.20	32.684	SF
EXIST DD BURMAN C05-24D - Wellbore #1 - Wellbore #	7,180.90	7,085.18	2,625.68	2,570.59	47.660	CC
EXIST DD BURMAN C05-24D - Wellbore #1 - Wellbore #	7,200.00	7,091.69	2,625.74	2,570.56	47.585	ES
EXIST DD BURMAN C05-24D - Wellbore #1 - Wellbore #	8,900.00	7,151.34	3,135.76	3,053.40	38.073	SF
EXIST DD NGL C1C - Wellbore #1 - Wellbore #1						Out of range
EXIST DD RUFF C 08-27D - Wellbore #1 - Wellbore #1	8,400.18	6,905.39	1,261.77	1,201.91	21.078	CC, ES
EXIST DD RUFF C 08-27D - Wellbore #1 - Wellbore #1	8,800.00	6,905.12	1,323.61	1,254.99	19.290	SF
EXIST DD SLEDGE C 9-30D - Wellbore #1 - Wellbore #1	9,638.06	6,931.89	1,557.74	1,461.98	16.268	CC
EXIST DD SLEDGE C 9-30D - Wellbore #1 - Wellbore #1	9,700.00	6,930.66	1,558.97	1,461.85	16.053	ES
EXIST DD SLEDGE C 9-30D - Wellbore #1 - Wellbore #1	10,000.00	6,924.82	1,599.22	1,497.18	15.673	SF
EXIST HZ CHALLENGER 1N - ORIGINAL WELLBORE -	3,288.13	3,024.27	1,100.08	1,081.85	60.355	CC
EXIST HZ CHALLENGER 1N - ORIGINAL WELLBORE -	3,598.00	3,352.89	1,100.59	1,079.93	53.290	ES
EXIST HZ CHALLENGER 1N - ORIGINAL WELLBORE -	6,450.00	6,421.72	1,264.68	1,223.86	30.979	SF
EXIST HZ CHALLENGER 1N - SIDETRACK - SIDETRA	3,288.13	3,024.27	1,100.08	1,081.85	60.355	CC
EXIST HZ CHALLENGER 1N - SIDETRACK - SIDETRA	3,598.00	3,352.89	1,100.59	1,079.93	53.290	ES
EXIST HZ CHALLENGER 1N - SIDETRACK - SIDETRA	6,450.00	6,421.72	1,264.68	1,223.86	30.979	SF
EXIST HZ CHALLENGER 2N - Wellbore #1 - Wellbore #	3,957.47	3,711.00	965.37	943.03	43.212	CC
EXIST HZ CHALLENGER 2N - Wellbore #1 - Wellbore #	6,400.00	6,377.96	1,032.67	992.26	25.553	SF
EXIST HZ CHALLENGER 2N - Wellbore #1 - Wellbore #	6,810.41	6,802.59	972.84	935.50	26.055	ES
EXIST HZ CHALLENGER 3N - Wellbore #1 - Wellbore #	6,500.00	6,445.56	719.45	680.01	18.243	SF
EXIST HZ CHALLENGER 3N - Wellbore #1 - Wellbore #	6,691.66	6,593.82	705.16	667.44	18.695	CC, ES
EXIST HZ CHALLENGER 4N - Wellbore #1 - Wellbore #	6,750.00	6,671.17	431.28	393.67	11.467	SF
EXIST HZ CHALLENGER 4N - Wellbore #1 - Wellbore #	6,839.54	6,702.31	422.92	386.49	11.610	CC, ES
EXIST HZ CHALLENGER 5N - Wellbore #1 - Wellbore #	6,800.00	6,660.53	225.97	188.83	6.085	ES, SF
EXIST HZ CHALLENGER 5N - Wellbore #1 - Wellbore #	6,809.02	6,662.67	225.80	188.93	6.124	CC

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

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HEN 06N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4803.00usft
<b>Reference Site:</b>	SW NE SEC. 8 T4N R64W 6th P.M. (HEN)	<b>MD Reference:</b>	KB 23ft @ 4803.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HEN 06N	<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>	Database 1
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	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						
SW NE SEC. 8 T4N R64W 6th P.M. (HEN)						
EXIST HZ CHALLENGER 6N - Wellbore #1 - Wellbore #	6,776.59	6,626.51	41.73	7.11	1.205	Level 3, CC, ES, SF
EXIST HZ CHALLENGER 7N - Wellbore #1 - Wellbore #	4,146.19	4,056.68	36.57	8.88	1.321	Level 3, CC, ES, SF
EXIST HZ CHALLENGER 8N - Wellbore #1 - Wellbore #	3,816.61	3,741.85	170.72	144.78	6.583	CC, ES, SF
EXIST HZ CHALLENGER 9N - Wellbore #1 - Wellbore #	3,465.99	3,402.09	302.58	278.21	12.417	CC, ES
EXIST HZ CHALLENGER 9N - Wellbore #1 - Wellbore #	3,600.00	3,522.53	308.61	283.31	12.201	SF
EXIST HZ FRANKLIN C17-69HN - Wellbore #1 - Wellbore #						Out of range
EXIST HZ HAROLD 6X-232 - Wellbore #1 - Wellbore #1	10,992.46	13,676.08	2,084.99	1,775.88	6.745	CC
EXIST HZ HAROLD 6X-232 - Wellbore #1 - Wellbore #1	14,799.56	17,485.24	2,118.37	1,596.64	4.060	ES, SF
EXIST HZ HAROLD 6X-302 - Wellbore #1 - Wellbore #1	7,862.43	10,596.00	2,395.83	2,255.35	17.055	CC
EXIST HZ HAROLD 6X-302 - Wellbore #1 - Wellbore #1	14,799.56	17,408.18	2,433.75	1,915.92	4.700	ES, SF
EXIST HZ HAROLD 6Y-202 - Wellbore #1 - Wellbore #1	7,086.86	9,782.05	1,518.37	1,408.91	13.871	CC
EXIST HZ HAROLD 6Y-202 - Wellbore #1 - Wellbore #1	14,799.56	17,460.32	1,558.25	1,037.67	2.993	ES, SF
EXIST HZ HAROLD 6Y-312 - Wellbore #1 - Wellbore #1	8,981.14	11,746.98	1,741.64	1,543.32	8.782	CC
EXIST HZ HAROLD 6Y-312 - Wellbore #1 - Wellbore #1	14,799.56	17,581.86	1,758.29	1,236.63	3.371	ES, SF
EXIST HZ JAGGED 10N - Wellbore #1 - Wellbore #1	0.00	0.00	1,371.47			
EXIST HZ JAGGED 10N - Wellbore #1 - Wellbore #1	100.00	92.38	1,371.60	1,371.43	7,824.935	ES
EXIST HZ JAGGED 10N - Wellbore #1 - Wellbore #1	7,700.00	6,270.00	3,275.99	3,229.53	70.512	SF
EXIST HZ JAGGED 11N - Wellbore #1 - Wellbore #1	393.76	370.11	1,382.37	1,381.00	1,010.369	CC
EXIST HZ JAGGED 11N - Wellbore #1 - Wellbore #1	400.00	374.20	1,382.37	1,380.98	994.011	ES
EXIST HZ JAGGED 11N - Wellbore #1 - Wellbore #1	5,200.00	4,466.96	2,788.06	2,756.91	89.530	SF
EXIST HZ JAGGED 12N - Wellbore #1 - Wellbore #1	0.00	0.00	1,393.34			
EXIST HZ JAGGED 12N - Wellbore #1 - Wellbore #1	5,600.00	4,740.13	3,160.05	3,126.37	93.837	SF
EXIST HZ JAGGED 1N - Wellbore #1 - Wellbore #1	4,052.71	4,147.96	904.66	879.65	36.181	CC
EXIST HZ JAGGED 1N - Wellbore #1 - Wellbore #1	4,526.70	4,639.48	905.12	877.20	32.424	ES
EXIST HZ JAGGED 1N - Wellbore #1 - Wellbore #1	6,950.00	6,761.90	1,026.03	988.42	27.277	SF
EXIST HZ JAGGED 2N - Wellbore #1 - Wellbore #1	3,143.90	3,220.00	1,012.72	994.01	54.110	CC
EXIST HZ JAGGED 2N - Wellbore #1 - Wellbore #1	3,200.00	3,271.71	1,012.90	993.79	53.027	ES
EXIST HZ JAGGED 2N - Wellbore #1 - Wellbore #1	6,750.00	6,555.00	1,312.33	1,276.20	36.329	SF
EXIST HZ JAGGED 3N - Wellbore #1 - Wellbore #1	3,115.30	3,223.36	1,140.75	1,121.86	60.395	CC
EXIST HZ JAGGED 3N - Wellbore #1 - Wellbore #1	3,200.00	3,302.08	1,141.10	1,121.61	58.566	ES
EXIST HZ JAGGED 3N - Wellbore #1 - Wellbore #1	6,800.00	6,607.09	1,525.54	1,489.17	41.938	SF
EXIST HZ JAGGED 4N - Wellbore #1 - Wellbore #1	1,736.67	1,768.41	1,285.78	1,277.56	156.534	CC
EXIST HZ JAGGED 4N - Wellbore #1 - Wellbore #1	1,800.00	1,828.67	1,285.94	1,277.27	148.384	ES
EXIST HZ JAGGED 4N - Wellbore #1 - Wellbore #1	8,200.00	6,365.00	2,250.31	2,203.87	48.460	SF
EXIST HZ JAGGED 5N - Wellbore #1 - Wellbore #1	1,281.87	1,275.38	1,312.93	1,307.62	247.292	CC
EXIST HZ JAGGED 5N - Wellbore #1 - Wellbore #1	1,500.00	1,486.00	1,313.43	1,306.92	201.724	ES
EXIST HZ JAGGED 5N - Wellbore #1 - Wellbore #1	8,500.00	6,364.00	2,614.94	2,562.70	50.059	SF
EXIST HZ JAGGED 6N - Wellbore #1 - Wellbore #1	281.43	277.33	1,327.53	1,326.63	1,483.098	CC
EXIST HZ JAGGED 6N - Wellbore #1 - Wellbore #1	700.00	689.70	1,327.97	1,325.27	492.299	ES
EXIST HZ JAGGED 6N - Wellbore #1 - Wellbore #1	8,700.00	6,269.00	2,900.44	2,843.80	51.213	SF
EXIST HZ JAGGED 7N - Wellbore #1 - Wellbore #1	457.12	453.14	1,338.45	1,336.79	806.196	CC, ES
EXIST HZ JAGGED 7N - Wellbore #1 - Wellbore #1	9,000.00	6,269.00	3,239.52	3,176.32	51.262	SF
EXIST HZ JAGGED 8N - Wellbore #1 - Wellbore #1	0.00	0.00	1,349.87			
EXIST HZ JAGGED 8N - Wellbore #1 - Wellbore #1	8,800.00	6,269.00	3,270.89	3,208.34	52.296	SF
EXIST HZ JAGGED 9N - Wellbore #1 - Wellbore #1	0.00	0.00	1,360.90			
EXIST HZ JAGGED 9N - Wellbore #1 - Wellbore #1	443.63	441.95	1,361.62	1,360.02	850.053	ES
EXIST HZ JAGGED 9N - Wellbore #1 - Wellbore #1	8,300.00	6,270.00	3,267.81	3,211.05	57.565	SF
EXIST HZ MARK ALTER C16-79HN - Wellbore #1 - Wellbore #1						Out of range
EXIST HZ NORTHRUP C 08-73HN - Wellbore #1 - Wellbore #1	8,400.00	7,671.48	13.17	-29.08	0.312	Level 3, ES
EXIST HZ NORTHRUP C 08-73HN - Wellbore #1 - Wellbore #1	8,412.75	7,671.01	3.35	-22.38	0.130	Level 3, CC, SF
EXIST HZ NORTHRUP C 08-75HN - Wellbore #1 - Wellbore #1	7,152.99	7,992.42	85.64	63.34	3.840	CC, ES
EXIST HZ NORTHRUP C 08-75HN - Wellbore #1 - Wellbore #1	7,200.00	7,991.62	99.03	65.92	2.991	SF
EXIST HZ OREDIGGER C10-69HN - Wellbore #1 - Wellbore #1	14,799.56	6,507.00	1,281.53	1,062.53	5.852	CC, ES, SF

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

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HEN 06N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4803.00usft
<b>Reference Site:</b>	SW NE SEC. 8 T4N R64W 6th P.M. (HEN)	<b>MD Reference:</b>	KB 23ft @ 4803.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HEN 06N	<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>	Database 1
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	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						
SW NE SEC. 8 T4N R64W 6th P.M. (HEN)						
EXIST HZ SANDY HILLS PC C17-67HN - Wellbore #1 -						Out of range
EXIST HZ STOCKLEY C15-79HN - Wellbore #1 - Wellbo	14,799.56	13,772.00	1,511.04	1,271.73	6.314	CC, ES, SF
EXIST HZ ZANE ALTER C 09-21 - Wellbore #1 - Wellbor	12,515.14	9,239.00	648.02	586.96	10.613	CC, ES, SF
EXIST VERT ALTER C 9-23 - Wellbore #1 - Design #1	13,673.99	6,724.29	2,550.29	2,228.41	7.923	CC
EXIST VERT ALTER C 9-23 - Wellbore #1 - Design #1	13,700.00	6,724.08	2,550.42	2,227.89	7.908	ES
EXIST VERT ALTER C 9-23 - Wellbore #1 - Design #1	14,000.00	6,721.63	2,571.04	2,242.49	7.825	SF
EXIST VERT ALTER C 9-25 - Wellbore #1 - Design #1	11,016.10	6,768.55	2,513.44	2,264.53	10.098	CC
EXIST VERT ALTER C 9-25 - Wellbore #1 - Design #1	11,100.00	6,767.86	2,514.84	2,263.85	10.020	ES
EXIST VERT ALTER C 9-25 - Wellbore #1 - Design #1	11,400.00	6,765.41	2,542.59	2,285.27	9.881	SF
EXIST VERT AMANDA ALTER C 9-20 - Wellbore #1 - De	11,033.57	6,783.64	1,466.02	1,216.39	5.873	CC, ES
EXIST VERT AMANDA ALTER C 9-20 - Wellbore #1 - De	11,200.00	6,782.28	1,475.44	1,222.55	5.834	SF
EXIST VERT BARTON C 15-29 - Wellbore #1 - Design #						Out of range
EXIST VERT BENNER 1 - Wellbore #1 - Wellbore #1	9,153.18	6,841.58	682.40	617.98	10.593	CC, ES
EXIST VERT BENNER 1 - Wellbore #1 - Wellbore #1	9,200.00	6,840.48	684.00	618.68	10.471	SF
EXIST VERT CONNELL 14-4 - Wellbore #1 - Wellbore #	10,335.72	6,817.52	2,126.17	2,029.04	21.890	CC
EXIST VERT CONNELL 14-4 - Wellbore #1 - Wellbore #	10,400.00	6,816.48	2,127.14	2,028.18	21.495	ES
EXIST VERT CONNELL 14-4 - Wellbore #1 - Wellbore #	11,000.00	6,806.82	2,227.50	2,116.09	19.994	SF
EXIST VERT CONNELL 3 - Wellbore #1 - Wellbore #1	11,710.30	6,768.68	2,025.69	1,891.48	15.094	CC
EXIST VERT CONNELL 3 - Wellbore #1 - Wellbore #1	11,800.00	6,765.63	2,027.68	1,890.90	14.825	ES
EXIST VERT CONNELL 3 - Wellbore #1 - Wellbore #1	12,100.00	6,755.74	2,062.80	1,919.51	14.397	SF
EXIST VERT CONNELL C 4-25 - Wellbore #1 - Wellbore	11,234.18	6,666.62	2,832.58	2,711.47	23.389	CC
EXIST VERT CONNELL C 4-25 - Wellbore #1 - Wellbore	11,300.00	6,669.02	2,833.35	2,710.35	23.035	ES
EXIST VERT CONNELL C 4-25 - Wellbore #1 - Wellbore	12,100.00	6,695.67	2,961.82	2,821.70	21.137	SF
EXIST VERT COX 8-19D - Wellbore #1 - Design #1	6,337.20	6,163.83	1,160.83	1,015.74	8.001	CC
EXIST VERT COX 8-19D - Wellbore #1 - Design #1	6,350.00	6,176.63	1,160.95	1,015.58	7.986	ES
EXIST VERT COX 8-19D - Wellbore #1 - Design #1	6,450.00	6,276.17	1,169.70	1,022.23	7.932	SF
EXIST VERT COX PM C 8-6 - Wellbore #1 - Wellbore #1	5,343.39	5,170.15	610.61	584.64	23.515	CC
EXIST VERT COX PM C 8-6 - Wellbore #1 - Wellbore #1	5,400.00	5,224.79	610.75	584.44	23.208	ES
EXIST VERT COX PM C 8-6 - Wellbore #1 - Wellbore #1	6,359.40	6,191.29	627.17	598.26	21.692	SF
EXIST VERT CPC HARLESS 17-1 - Wellbore #1 - Wellb						Out of range
EXIST VERT EMBRICK C 10-19 - Wellbore #1 - Wellbo	14,799.56	6,673.96	1,344.62	1,319.77	54.110	CC, ES, SF
EXIST VERT ENGLAND 8-3-17 - Wellbore #1 - Wellbore	4,372.89	4,164.70	2,076.82	2,056.63	102.855	CC
EXIST VERT ENGLAND 8-3-17 - Wellbore #1 - Wellbore	6,341.73	6,190.13	2,077.59	2,048.54	71.504	ES
EXIST VERT ENGLAND 8-3-17 - Wellbore #1 - Wellbore	6,400.00	6,248.97	2,079.13	2,050.04	71.470	SF
EXIST VERT ENGLAND 8-35 - Wellbore #1 - Wellbore #	1,676.74	1,623.18	2,611.54	2,606.35	503.229	CC
EXIST VERT ENGLAND 8-35 - Wellbore #1 - Wellbore #	2,200.00	2,151.67	2,612.37	2,604.37	326.669	ES
EXIST VERT ENGLAND 8-35 - Wellbore #1 - Wellbore #	6,400.00	6,212.30	2,800.56	2,772.61	100.216	SF
EXIST VERT GEHRING 1 - Wellbore #1 - Wellbore #1	749.07	664.08	2,752.09	2,750.31	1,546.656	CC
EXIST VERT GEHRING 1 - Wellbore #1 - Wellbore #1	800.00	710.39	2,752.14	2,750.24	1,442.404	ES
EXIST VERT GEHRING 1 - Wellbore #1 - Wellbore #1	9,800.00	6,823.04	3,280.77	3,202.25	41.781	SF
EXIST VERT GEHRING 8-914 - Wellbore #1 - Wellbore #	181.10	131.06	1,849.33	1,848.95	4,849.166	CC
EXIST VERT GEHRING 8-914 - Wellbore #1 - Wellbore #	9,200.00	6,858.59	1,861.55	1,796.01	28.400	ES
EXIST VERT GEHRING 8-914 - Wellbore #1 - Wellbore #	9,800.00	6,853.54	1,973.08	1,896.98	25.927	SF
EXIST VERT HAGEN 9-10 - Wellbore #1 - Design #1	13,099.02	6,737.45	2,165.69	1,859.60	7.075	CC
EXIST VERT HAGEN 9-10 - Wellbore #1 - Design #1	13,100.00	6,737.44	2,165.69	1,859.57	7.075	ES
EXIST VERT HAGEN 9-10 - Wellbore #1 - Design #1	13,300.00	6,735.81	2,175.00	1,864.63	7.008	SF
EXIST VERT HAGEN 9-15 - Wellbore #1 - Design #1						Out of range
EXIST VERT HAGEN 9-9 - Wellbore #1 - Wellbore #1	13,999.18	6,860.88	2,101.07	1,903.44	10.632	CC
EXIST VERT HAGEN 9-9 - Wellbore #1 - Wellbore #1	14,000.00	6,860.82	2,101.07	1,903.42	10.631	ES
EXIST VERT HAGEN 9-9 - Wellbore #1 - Wellbore #1	14,300.00	6,840.11	2,122.39	1,919.35	10.453	SF
EXIST VERT HARLESS PM C 17-2 - Wellbore #1 - Desi						Out of range
EXIST VERT JOHNSON 9-11 - Wellbore #1 - Design #1	11,695.73	6,760.90	1,977.66	1,710.12	7.392	CC

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

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HEN 06N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4803.00usft
<b>Reference Site:</b>	SW NE SEC. 8 T4N R64W 6th P.M. (HEN)	<b>MD Reference:</b>	KB 23ft @ 4803.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HEN 06N	<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>	Database 1
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 8 T4N R64W 6th P.M. (HEN)						
EXIST VERT JOHNSON 9-11 - Wellbore #1 - Design #1	11,700.00	6,760.86	1,977.66	1,710.02	7.389	ES
EXIST VERT JOHNSON 9-11 - Wellbore #1 - Design #1	11,900.00	6,759.23	1,988.18	1,716.27	7.312	SF
EXIST VERT JOHNSON 9-13 - Wellbore #1 - Wellbore #	10,408.88	6,873.85	3,277.70	3,179.41	33.346	CC
EXIST VERT JOHNSON 9-13 - Wellbore #1 - Wellbore #	10,500.00	6,873.79	3,278.97	3,178.32	32.580	ES, SF
EXIST VERT MCCLINTOCK C 4-15 - Wellbore #1 - Well	13,125.25	6,716.69	2,352.52	2,179.05	13.561	CC
EXIST VERT MCCLINTOCK C 4-15 - Wellbore #1 - Well	13,200.00	6,715.69	2,353.71	2,178.07	13.401	ES
EXIST VERT MCCLINTOCK C 4-15 - Wellbore #1 - Well	13,600.00	6,710.33	2,399.94	2,215.98	13.046	SF
EXIST VERT NGL C1A - Wellbore #1 - Design #1						Out of range
EXIST VERT NGL C1B - Wellbore #1 - Design #1	800.00	722.00	3,139.02	3,123.25	199.137	CC
EXIST VERT NGL C1B - Wellbore #1 - Design #1	900.00	821.98	3,140.69	3,122.69	174.475	ES
EXIST VERT NGL C1B - Wellbore #1 - Design #1	1,700.00	1,608.03	3,271.06	3,235.26	91.363	SF
EXIST VERT REINICK 10-5 - Wellbore #1 - Wellbore #1	14,799.56	6,645.08	1,084.83	930.83	7.044	CC, ES, SF
EXIST VERT REINICK 1-10-4-64 - Wellbore #1 - Wellbo	14,799.56	6,727.52	1,155.64	1,028.16	9.065	CC, ES, SF
EXIST VERT REINICK 3 - Wellbore #1 - Wellbore #1	14,283.73	6,734.58	595.03	389.31	2.892	CC
EXIST VERT REINICK 3 - Wellbore #1 - Wellbore #1	14,300.00	6,734.65	595.25	389.00	2.886	ES, SF
EXIST VERT REINICK C 10-31 - Wellbore #1 - Wellbore	14,689.92	6,728.05	47.85	-124.66	0.277	Level 3, CC, ES, SF
EXIST VERT REINICK C 9-18 - Wellbore #1 - Design #1	12,399.87	6,774.88	91.67	-193.15	0.322	Level 3, ES, SF
EXIST VERT REINICK C 9-18 - Wellbore #1 - Design #1	12,400.00	6,774.88	91.67	-193.10	0.322	Level 3, CC
EXIST VERT REINICK C 9-22 - Wellbore #1 - Design #1	13,686.10	6,734.09	1,291.94	969.57	4.008	CC
EXIST VERT REINICK C 9-22 - Wellbore #1 - Design #1	13,700.00	6,733.98	1,292.02	969.34	4.004	ES
EXIST VERT REINICK C 9-22 - Wellbore #1 - Design #1	13,800.00	6,733.16	1,296.95	972.78	4.001	SF
EXIST VERT REISTAD 1 - Wellbore #1 - Wellbore #1	9,064.14	6,822.57	2,022.15	1,959.97	32.517	CC
EXIST VERT REISTAD 1 - Wellbore #1 - Wellbore #1	9,100.00	6,822.23	2,022.47	1,959.32	32.027	ES
EXIST VERT REISTAD 1 - Wellbore #1 - Wellbore #1	9,900.00	6,814.21	2,188.09	2,108.43	27.469	SF
EXIST VERT RICHARDSON 10-13 - Wellbore #1 - Desig						Out of range
EXIST VERT ROHR 15-414 - Wellbore #1 - Wellbore #1						Out of range
EXIST VERT ROHR C 15-19 - Wellbore #1 - Wellbore #1						Out of range
EXIST VERT RUFF 8-114 - Wellbore #1 - Wellbore #1	8,710.10	6,845.18	357.95	305.14	6.778	CC, ES, SF
EXIST VERT RUFF 8-714 - Wellbore #1 - Wellbore #1	341.01	317.94	450.92	450.00	487.517	CC
EXIST VERT RUFF 8-714 - Wellbore #1 - Wellbore #1	400.00	376.20	450.97	449.88	414.161	ES
EXIST VERT RUFF 8-714 - Wellbore #1 - Wellbore #1	8,200.00	6,893.44	536.70	496.56	13.373	SF
EXIST VERT RUFF C 8-1 - Wellbore #1 - Design #1	9,344.79	6,847.61	844.84	639.79	4.120	CC, ES
EXIST VERT RUFF C 8-1 - Wellbore #1 - Design #1	9,400.00	6,847.16	846.64	640.08	4.099	SF
EXIST VERT RYANN STATE C 16-1 - Wellbore #1 - Wel						Out of range
EXIST VERT RYDGREN 8-31 - Wellbore #1 - Wellbore #	1,220.40	1,186.65	1,560.87	1,557.55	469.768	CC
EXIST VERT RYDGREN 8-31 - Wellbore #1 - Wellbore #	1,400.00	1,366.25	1,561.05	1,557.12	397.032	ES
EXIST VERT RYDGREN 8-31 - Wellbore #1 - Wellbore #	8,300.00	6,846.12	2,625.70	2,589.75	73.034	SF
EXIST VERT SLEDGE C 9-31 - Wellbore #1 - Design #1	9,912.82	6,818.59	92.92	-122.93	0.430	Level 3, CC, ES, SF
EXIST VERT SMITH 9-5 - Wellbore #1 - Design #1	10,567.24	6,802.85	834.49	597.25	3.518	CC, ES
EXIST VERT SMITH 9-5 - Wellbore #1 - Design #1	10,600.00	6,802.58	835.13	597.26	3.511	SF
EXIST VERT SMITH C 9-19 - Wellbore #1 - Design #1	11,146.81	6,812.86	363.75	110.40	1.436	Level 3, CC, ES, SF
EXIST VERT STATE 16-314 - Wellbore #1 - Design #1						Out of range
EXIST VERT STATE 16-414 - Wellbore #1 - Design #1						Out of range
EXIST VERT VERN JOHNSON 1-A - Wellbore #1 - Desi						Out of range
EXIST VERT VERN JOHNSON 2 - Wellbore #1 - Design	10,369.50	6,789.25	1,972.97	1,741.41	8.520	CC
EXIST VERT VERN JOHNSON 2 - Wellbore #1 - Design	10,400.00	6,789.00	1,973.20	1,740.89	8.494	ES
EXIST VERT VERN JOHNSON 2 - Wellbore #1 - Design	10,700.00	6,786.55	2,000.45	1,762.03	8.390	SF
EXIST VERT WILMOTH 1 - Wellbore #1 - Wellbore #1	14,295.38	6,692.92	2,076.92	1,870.67	10.070	CC
EXIST VERT WILMOTH 1 - Wellbore #1 - Wellbore #1	14,400.00	6,692.58	2,079.56	1,870.36	9.941	ES
EXIST VERT WILMOTH 1 - Wellbore #1 - Wellbore #1	14,600.00	6,691.92	2,099.14	1,885.97	9.847	SF
EXIST VERT WILMOTH C 3-33 - Wellbore #1 - Wellbore	14,799.56	6,726.12	2,642.30	2,422.60	12.027	CC, ES, SF

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



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HEN 06N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4803.00usft
<b>Reference Site:</b>	SW NE SEC. 8 T4N R64W 6th P.M. (HEN)	<b>MD Reference:</b>	KB 23ft @ 4803.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HEN 06N	<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>	Database 1
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	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						
SW NE SEC. 8 T4N R64W 6th P.M. (HEN)						
EXIST VERT WILMOTH C 4-23 - Wellbore #1 - Wellbore	13,727.01	6,664.56	2,652.99	2,462.83	13.952	CC
EXIST VERT WILMOTH C 4-23 - Wellbore #1 - Wellbore	13,800.00	6,663.08	2,653.99	2,461.73	13.804	ES
EXIST VERT WILMOTH C 4-23 - Wellbore #1 - Wellbore	14,200.00	6,655.17	2,694.80	2,493.83	13.409	SF
EXIST VERT WILMOTH C 4-24 - Wellbore #1 - Wellbore	12,511.40	6,734.98	2,726.53	2,570.12	17.432	CC
EXIST VERT WILMOTH C 4-24 - Wellbore #1 - Wellbore	12,600.00	6,735.40	2,727.97	2,569.01	17.161	ES
EXIST VERT WILMOTH C 4-24 - Wellbore #1 - Wellbore	13,200.00	6,738.23	2,812.15	2,640.73	16.406	SF
EXIST VERT WILMOTH C 9-27 - Wellbore #1 - Wellbore	13,630.15	6,757.87	1,517.81	1,330.57	8.106	CC
EXIST VERT WILMOTH C 9-27 - Wellbore #1 - Wellbore	13,700.00	6,757.00	1,519.42	1,330.18	8.029	ES
EXIST VERT WILMOTH C 9-27 - Wellbore #1 - Wellbore	13,800.00	6,755.77	1,527.29	1,335.99	7.984	SF
HEN 01N - ORIGINAL WELLBORE - PROPOSAL #2	300.00	299.00	74.97	73.90	70.077	CC, ES
HEN 01N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	15,030.51	1,200.88	764.80	2.754	SF
HEN 02N - ORIGINAL WELLBORE - PROPOSAL #2	400.00	399.00	60.00	58.48	39.490	CC, ES
HEN 02N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	15,019.45	958.59	521.97	2.195	SF
HEN 03N - ORIGINAL WELLBORE - PROPOSAL #2	500.00	499.00	44.99	43.02	22.851	CC, ES
HEN 03N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,887.07	722.33	288.81	1.666	SF
HEN 04N - ORIGINAL WELLBORE - PROPOSAL #2	600.00	599.00	29.98	27.56	12.396	CC, ES
HEN 04N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,889.42	479.29	44.06	1.101	Level 3, SF
HEN 05N - ORIGINAL WELLBORE - PROPOSAL #2	700.00	699.00	14.97	12.11	5.221	CC
HEN 05N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,767.43	248.30	-58.49	0.809	Level 3, ES, SF
HEN 07N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	15.01	11.69	4.524	CC
HEN 07N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,694.01	247.04	-62.15	0.799	Level 3, ES, SF
HEN 08N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	29.98	26.67	9.038	CC, ES
HEN 08N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,745.04	479.39	43.52	1.100	Level 3, SF
HEN 09N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	44.99	41.67	13.562	CC, ES
HEN 09N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,695.25	721.03	287.96	1.665	SF
HEN 10N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	60.00	56.68	18.086	CC, ES
HEN 10N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,785.18	958.78	521.95	2.195	SF
HEN 11N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	74.97	71.66	22.600	CC, ES
HEN 11N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,738.87	1,199.26	763.06	2.749	SF
HEN 12N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	89.98	86.67	27.124	CC, ES
HEN 12N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,833.09	1,438.06	1,002.01	3.298	SF
HEN 13N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	104.99	101.68	31.648	CC, ES
HEN 13N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,796.26	1,678.10	1,242.14	3.849	SF
HEN 14N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	120.00	116.69	36.172	CC, ES
HEN 14N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,908.23	1,917.31	1,481.33	4.398	SF
HEN 15N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	134.98	131.66	40.686	CC, ES
HEN 15N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,877.74	2,157.37	1,721.59	4.951	SF
HEN 16N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	149.95	146.63	45.199	CC, ES
HEN 16N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,965.04	2,396.52	1,960.75	5.500	SF
HEN 17N - ORIGINAL WELLBORE - PROPOSAL #2	800.00	799.00	164.96	161.64	49.723	CC, ES
HEN 17N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	14,966.03	2,636.65	2,201.05	6.053	SF
HEN 18N - ORIGINAL WELLBORE - PROPOSAL #2	700.00	699.00	179.97	177.10	62.750	CC, ES
HEN 18N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	15,093.23	2,875.76	2,440.23	6.603	SF
HEN 19N - ORIGINAL WELLBORE - PROPOSAL #2	600.00	599.00	194.98	192.56	80.620	CC, ES
HEN 19N - ORIGINAL WELLBORE - PROPOSAL #2	14,799.56	15,090.25	3,116.04	2,680.67	7.157	SF
HEN 20NA - ORIGINAL WELLBORE - PROPOSAL #2	500.00	498.00	209.95	207.98	106.753	CC, ES
HEN 20NA - ORIGINAL WELLBORE - PROPOSAL #2	1,100.00	1,039.40	286.29	281.82	63.987	SF
HEN 21N - ORIGINAL WELLBORE - PROPOSAL #2	400.00	398.00	224.96	223.44	148.277	CC, ES
HEN 21N - ORIGINAL WELLBORE - PROPOSAL #2	1,100.00	1,021.56	325.39	320.91	72.531	SF
HEN 22N - ORIGINAL WELLBORE - PROPOSAL #2	300.00	297.00	239.97	238.91	225.242	CC, ES
HEN 22N - ORIGINAL WELLBORE - PROPOSAL #2	1,200.00	1,079.88	405.37	400.39	81.290	SF

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