



Project: WELD COUNTY, COLORADO  
Site: SW SE SEC. 33 T4N R65W 6th P.M. (LORY)  
Well: LORY 9N  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 496ft FSL & 2210ft FEL of Sec 33
400.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	START NUDDGE (2°/100ft BUR)
1189.55	1199.90	16.00	112.70	-42.81	102.36	-31.11	110.95	EOB TO 16° INC
4693.93	4845.47	16.00	112.70	-430.51	1029.28	-312.82	1115.69	END OF TANGENT
5483.48	5645.38	0.00	0.00	-473.32	1131.64	-343.93	1226.64	EOD TO VERTICAL
6284.48	6446.38	0.00	0.00	-473.32	1131.64	-343.93	1226.64	KOP (8°/100ft BUR)
7000.68	7571.38	90.00	359.88	242.88	1130.14	367.61	1942.84	EP: 1079ft FEL & 737ft FSL of Sec 33
7001.00	17203.59	90.00	359.88	9875.07	1110.18	9937.27	11575.05	BHL: 1079ft FEL & 200ft FNL of Sec 28

PROPOSED LOCAL COORDINATES:

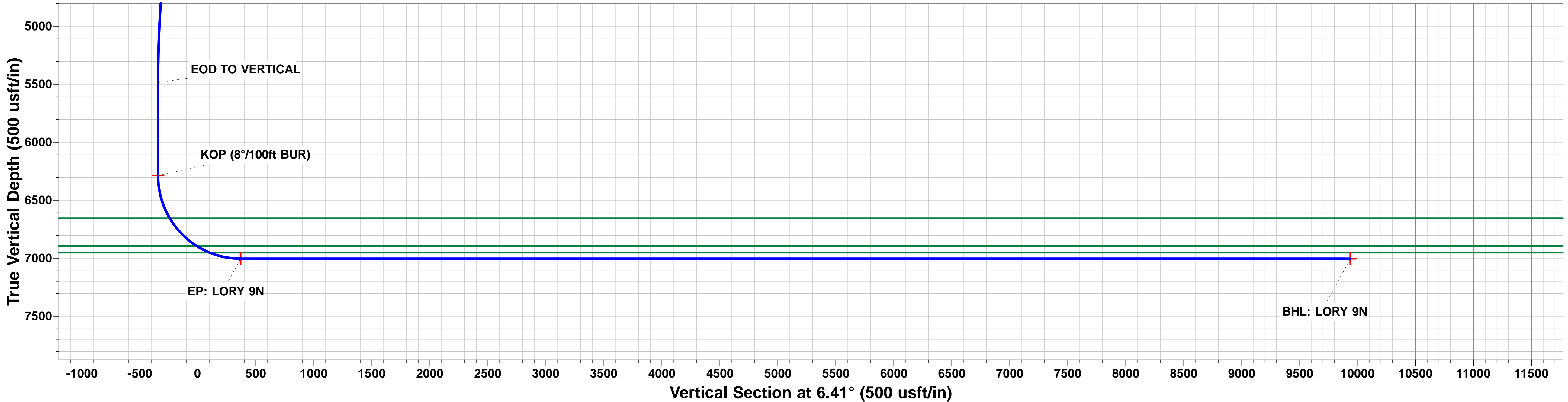
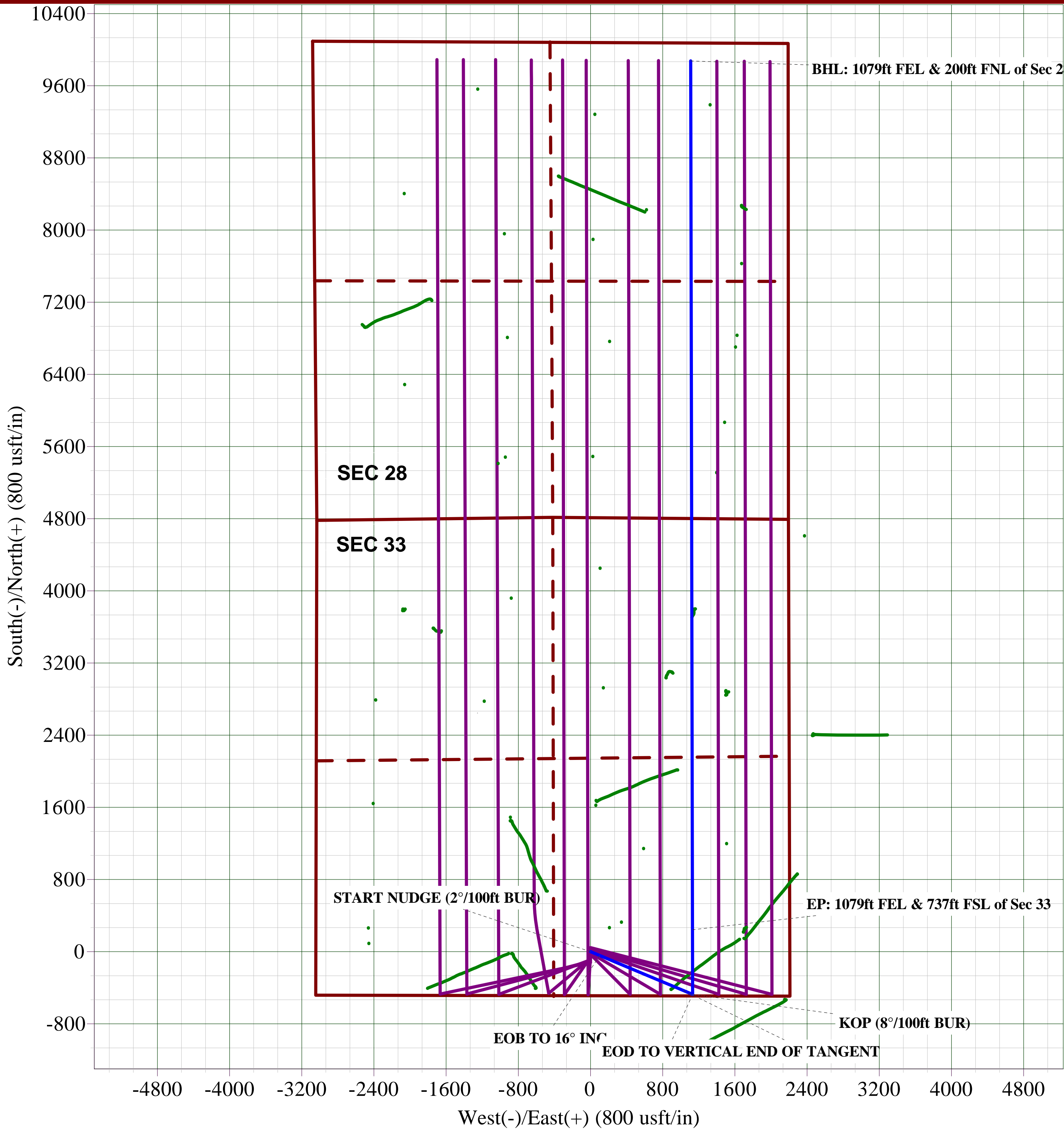
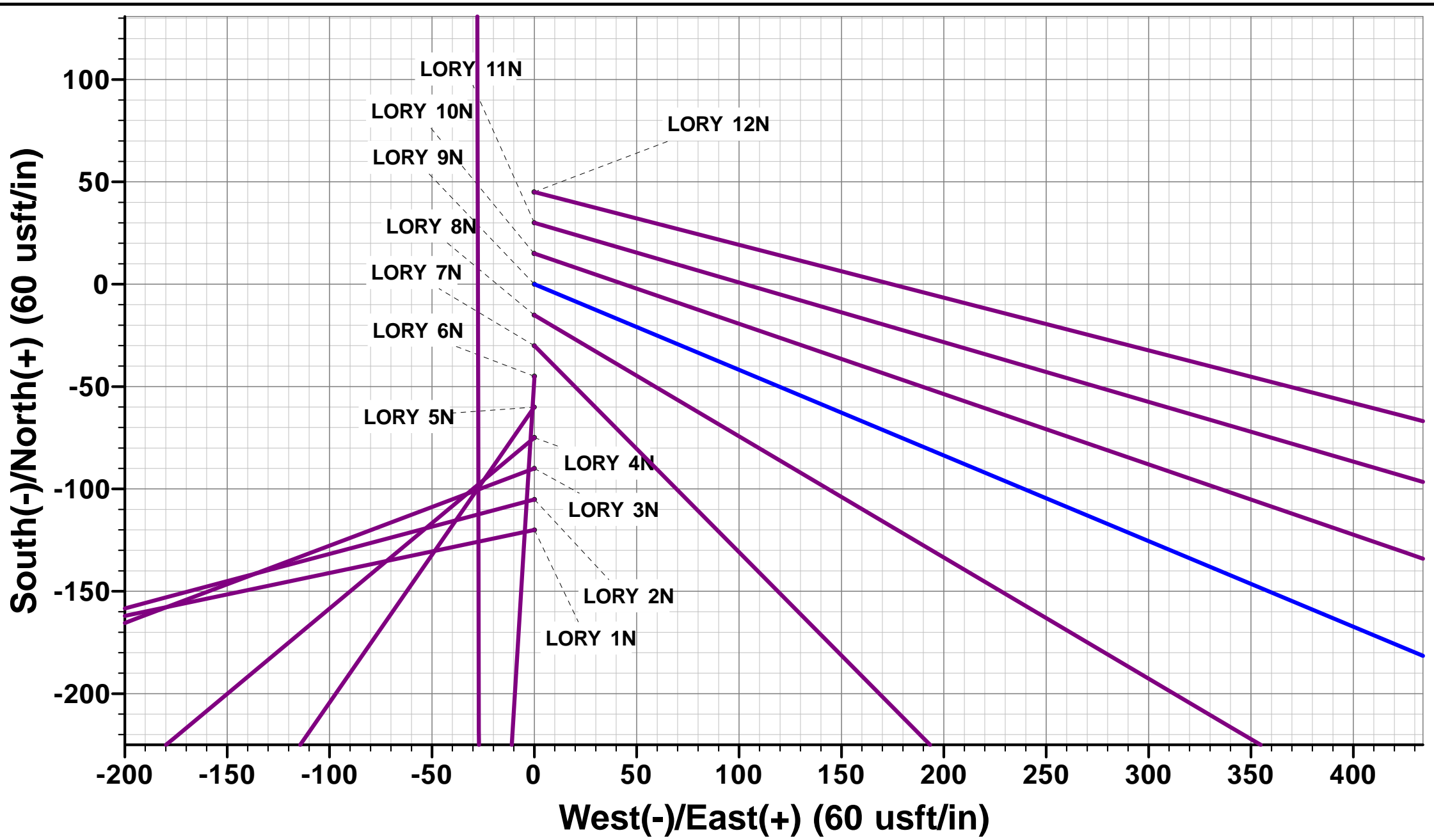
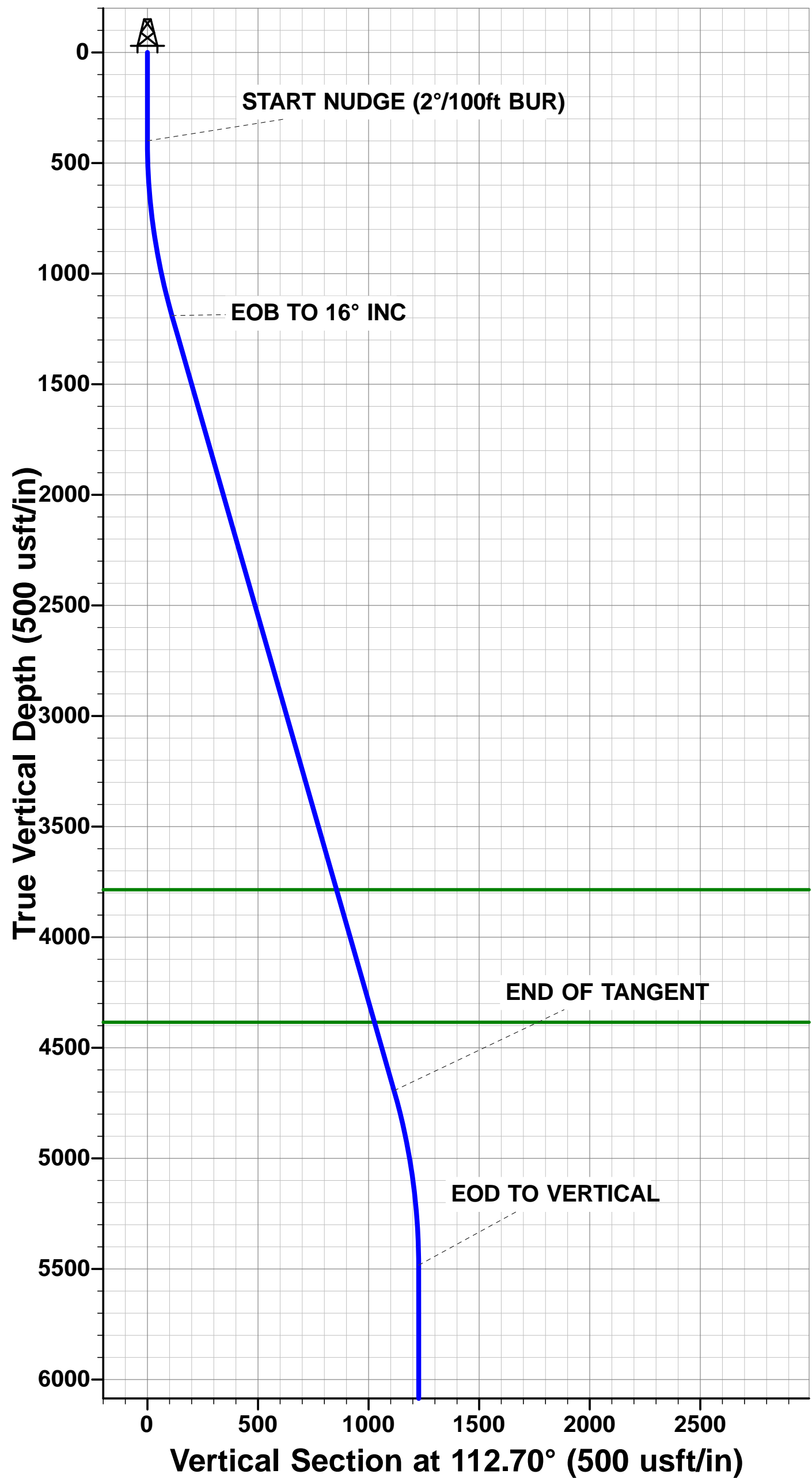
SHL: 496ft FSL & 2210ft FEL of Sec 33

EP: 1079ft FEL & 737ft FSL of Sec 33

BHL: 1079ft FEL & 200ft FNL of Sec 28

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP: LORY 9N	6284.48	-473.32	1131.64	40.261674	-104.662745
EP: LORY 9N	7001.00	242.88	1130.14	40.263640	-104.662750
BHL: LORY 9N	7001.00	9875.07	1110.18	40.290080	-104.662820



# **PDC ENERGY**

**WELD COUNTY, COLORADO**

**SW SE SEC. 33 T4N R65W 6th P.M. (LORY)**

**LORY 9N**

**ORIGINAL WELLBORE**

**PROPOSAL #1**

## **Anticollision Report**

**30 November, 2017**



## Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well LORY 9N
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4841.00usft (Original Well Elev)
<b>Reference Site:</b>	SW SE SEC. 33 T4N R65W 6th P.M. (LORY)	<b>MD Reference:</b>	KB-EST @ 4841.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LORY 9N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 9,999.98 usft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	30/11/2017		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	17,203.55	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						
SW SE SEC. 33 T4N R65W 6th P.M. (LORY)						
ABDN VERT BOHLENDER 33-2 - GYRO - Wellbore #1 -	10,172.45	7,005.51	373.09	311.74	6.081	CC, ES
ABDN VERT BOHLENDER 33-2 - GYRO - Wellbore #1 -	10,200.00	7,005.54	374.11	312.25	6.048	SF
ABDN VERT BOHLENDER 33-6 - GYRO - Wellbore #1 -	11,254.98	7,000.72	2,001.58	1,906.51	21.054	CC
ABDN VERT BOHLENDER 33-6 - GYRO - Wellbore #1 -	11,300.00	7,000.73	2,002.09	1,906.18	20.875	ES
ABDN VERT BOHLENDER 33-6 - GYRO - Wellbore #1 -	12,100.00	7,000.75	2,172.64	2,061.69	19.582	SF
ABDN VERT CPC-BOHLENDER 33-3 - Wellbore #1 - W	11,036.46	7,002.25	0.60	-76.70	0.008	Level 1, CC, ES, SF
ABDN VERT KRAUSE 1 - Wellbore #1 - Design #1	12,747.37	4,662.00	3,171.90	3,086.79	37.267	CC
ABDN VERT KRAUSE 1 - Wellbore #1 - Design #1	12,800.00	4,662.00	3,172.34	3,086.49	36.955	ES
ABDN VERT KRAUSE 1 - Wellbore #1 - Design #1	14,400.00	4,662.00	3,576.62	3,468.47	33.073	SF
ABDN VERT KRAUSE 28-3 - Wellbore #1 - Design #1	12,823.23	7,000.77	1,094.23	969.60	8.780	CC, ES
ABDN VERT KRAUSE 28-3 - Wellbore #1 - Design #1	13,000.00	7,000.78	1,108.42	980.44	8.661	SF
ABDN VERT KRAUSE 28-4 - Wellbore #1 - Design #1	14,097.90	7,000.83	904.66	755.82	6.078	CC
ABDN VERT KRAUSE 28-4 - Wellbore #1 - Design #1	14,100.00	7,000.83	904.66	755.78	6.076	ES
ABDN VERT KRAUSE 28-4 - Wellbore #1 - Design #1	14,200.00	7,000.83	910.41	759.62	6.038	SF
ABDN VERT OSTER PM G 28-8 - GYRO - Wellbore #1 -	15,555.50	6,942.39	612.95	450.10	3.764	CC, ES
ABDN VERT OSTER PM G 28-8 - GYRO - Wellbore #1 -	15,600.00	6,941.21	614.56	450.87	3.754	SF
EXIST DD ANDERSEN 23-33 - Wellbore #1 - Wellbore #	8,004.18	7,123.79	1,611.92	1,568.63	37.235	CC, ES
EXIST DD ANDERSEN 23-33 - Wellbore #1 - Wellbore #	9,100.00	7,119.24	1,949.13	1,888.97	32.399	SF
EXIST DD ANDERSEN 23-33 - Wellbore #1 - Wellbore #	9,343.52	7,118.17	161.16	100.30	2.648	CC, ES, SF
EXIST DD ANDERSEN 33-34 - Wellbore #1 - Wellbore #	8,186.58	7,093.44	1,163.01	1,117.49	25.549	CC
EXIST DD ANDERSEN 33-34 - Wellbore #1 - Wellbore #	8,200.00	7,093.41	1,163.09	1,117.39	25.449	ES
EXIST DD ANDERSEN 33-34 - Wellbore #1 - Wellbore #	8,700.00	7,092.05	1,271.30	1,217.98	23.844	SF
EXIST DD ANDERSEN 35-33 - Wellbore #1 - Wellbore #	0.00	10.89	907.66			
EXIST DD ANDERSEN 35-33 - Wellbore #1 - Wellbore #	300.00	307.92	908.19	907.31	1,034.655	ES
EXIST DD ANDERSEN 35-33 - Wellbore #1 - Wellbore #	16,400.00	6,820.00	9,921.40	9,728.87	51.532	SF
EXIST DD ANDERSEN 36-33 - Wellbore #1 - Wellbore #	420.79	441.58	875.12	873.83	679.345	CC, ES
EXIST DD ANDERSEN 36-33 - Wellbore #1 - Wellbore #	10,700.00	6,988.37	4,154.08	4,069.55	49.141	SF
EXIST DD ANDERSEN 37-33 - Wellbore #1 - Wellbore #	4,798.20	4,760.58	103.92	65.90	2.733	CC, ES, SF
EXIST DD ARISTOCRAT ANGUS 8-0-4 - Wellbore #1 - W	6,493.32	6,477.35	1,022.21	986.19	28.380	CC
EXIST DD ARISTOCRAT ANGUS 8-0-4 - Wellbore #1 - W	6,500.00	6,483.85	1,022.21	986.18	28.369	ES
EXIST DD ARISTOCRAT ANGUS 8-0-4 - Wellbore #1 - W	6,650.00	6,632.53	1,023.67	987.45	28.267	SF
EXIST DD KRAUSE 22-28 - Wellbore #1 - Wellbore #1	14,567.72	7,191.44	2,886.87	2,728.82	18.265	CC
EXIST DD KRAUSE 22-28 - Wellbore #1 - Wellbore #1	14,600.00	7,191.07	2,887.05	2,728.38	18.195	ES
EXIST DD KRAUSE 22-28 - Wellbore #1 - Wellbore #1	15,600.00	7,179.96	3,065.84	2,888.13	17.252	SF
EXIST DD MANTLE 4-2-28 - Wellbore #1 - Wellbore #1	15,928.44	7,116.82	1,463.76	1,278.54	7.903	CC, ES
EXIST DD MANTLE 4-2-28 - Wellbore #1 - Wellbore #1	16,100.00	7,115.85	1,473.78	1,285.29	7.819	SF
EXIST HZ MOSER PC G34-65HN - Wellbore #1 - Wellbo	9,731.59	6,459.77	1,494.56	1,431.93	23.861	CC, ES

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

## Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well LORY 9N
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4841.00usft (Original Well Elev)
<b>Reference Site:</b>	SW SE SEC. 33 T4N R65W 6th P.M. (LORY)	<b>MD Reference:</b>	KB-EST @ 4841.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LORY 9N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SW SE SEC. 33 T4N R65W 6th P.M. (LORY)						
EXIST HZ MOSER PC G34-65HN - Wellbore #1 - Wellbo	10,300.00	6,455.13	1,598.98	1,526.69	22.119	SF
EXIST VERT ANDERSEN 10-33 - Wellbore #1 - Design	8,956.47	7,000.68	1,068.50	1,015.12	20.016	CC, ES
EXIST VERT ANDERSEN 10-33 - Wellbore #1 - Design	9,300.00	7,000.69	1,122.37	1,063.06	18.926	SF
EXIST VERT BOHLENDER 33-22 - GYRO - Wellbore #1	11,116.07	7,021.90	3,194.69	3,115.99	40.593	CC
EXIST VERT BOHLENDER 33-22 - GYRO - Wellbore #1	11,200.00	7,021.87	3,195.80	3,115.53	39.814	ES
EXIST VERT BOHLENDER 33-22 - GYRO - Wellbore #1	13,600.00	7,021.28	4,046.73	3,921.13	32.219	SF
EXIST VERT BOHLENDER 33-5 - Wellbore #1 - Design	10,128.88	7,000.70	3,505.27	3,431.08	47.244	CC
EXIST VERT BOHLENDER 33-5 - Wellbore #1 - Design	10,200.00	7,000.70	3,506.00	3,430.50	46.439	ES
EXIST VERT BOHLENDER 33-5 - Wellbore #1 - Design	13,300.00	7,000.79	4,726.85	4,593.18	35.361	SF
EXIST VERT BOHLENDER 33-7 - Wellbore #1 - Design	10,111.72	7,000.70	2,302.59	2,228.71	31.166	CC, ES
EXIST VERT BOHLENDER 33-7 - Wellbore #1 - Design	11,500.00	7,000.73	2,688.72	2,589.06	26.979	SF
EXIST VERT CPC-BOHLENDER 33-1 - Wellbore #1 - De	11,584.44	7,000.73	1,015.88	914.63	10.034	CC
EXIST VERT CPC-BOHLENDER 33-1 - Wellbore #1 - De	11,600.00	7,000.73	1,016.00	914.46	10.006	ES
EXIST VERT CPC-BOHLENDER 33-1 - Wellbore #1 - De	11,800.00	7,000.74	1,038.50	933.20	9.862	SF
EXIST VERT CPC-BOHLENDER 33-4 - Wellbore #1 - De	10,258.31	7,000.70	982.35	905.79	12.830	CC, ES
EXIST VERT CPC-BOHLENDER 33-4 - Wellbore #1 - De	10,500.00	7,000.71	1,011.65	930.63	12.487	SF
EXIST VERT FRAZIER 33-15 - GYRO - Wellbore #1 - W	10,365.54	7,003.31	287.00	221.89	4.408	CC, ES
EXIST VERT FRAZIER 33-15 - GYRO - Wellbore #1 - W	10,400.00	7,003.01	289.07	223.32	4.397	SF
EXIST VERT FRAZIER 33-25 - Wellbore #1 - Wellbore #	10,920.52	7,021.92	2,861.59	2,786.32	38.014	CC
EXIST VERT FRAZIER 33-25 - Wellbore #1 - Wellbore #	11,000.00	7,021.71	2,862.70	2,785.94	37.295	ES
EXIST VERT FRAZIER 33-25 - Wellbore #1 - Wellbore #	13,000.00	7,016.41	3,537.37	3,422.95	30.914	SF
EXIST VERT HSR KRAUSE 14-28A - Wellbore #1 - Des	12,817.96	7,000.77	2,062.46	1,937.93	16.562	CC, ES
EXIST VERT HSR KRAUSE 14-28A - Wellbore #1 - Des	13,500.00	7,000.80	2,172.30	2,034.83	15.802	SF
EXIST VERT HSR MONTALI 14-33 - Wellbore #1 - Desig	400.00	400.00	1,514.12	1,512.60	995.043	CC, ES
EXIST VERT HSR MONTALI 14-33 - Wellbore #1 - Desig	11,800.00	7,000.74	4,703.28	4,597.98	44.666	SF
EXIST VERT HSR-HART 12-33 - Wellbore #1 - Design #	400.00	400.00	2,916.94	2,915.42	1,916.939	CC, ES
EXIST VERT HSR-HART 12-33 - Wellbore #1 - Design #	13,600.00	7,000.80	5,816.60	5,677.22	41.734	SF
EXIST VERT HSR-HEADLEY 9-33 - Wellbore #1 - Desig	8,528.35	7,000.68	380.39	334.00	8.200	CC, ES
EXIST VERT HSR-HEADLEY 9-33 - Wellbore #1 - Desig	8,600.00	7,000.68	387.07	339.56	8.147	SF
EXIST VERT HSR-LARSON 16-33A - GYRO - Wellbore	7,598.57	6,963.65	596.16	575.17	28.407	CC
EXIST VERT HSR-LARSON 16-33A - GYRO - Wellbore	7,600.00	6,963.66	596.16	575.17	28.394	ES
EXIST VERT HSR-LARSON 16-33A - GYRO - Wellbore	7,800.00	6,964.19	629.27	606.54	27.680	SF
EXIST VERT HSR-LEE 13-33 - Wellbore #1 - Design #1	400.00	400.00	2,475.85	2,474.33	1,627.065	CC, ES
EXIST VERT HSR-LEE 13-33 - Wellbore #1 - Design #1	16,900.00	7,000.98	9,968.76	9,766.44	49.272	SF
EXIST VERT HSR-MARLEY 15-33 - Wellbore #1 - Desig	1,117.68	1,110.20	328.28	323.05	62.771	CC, ES
EXIST VERT HSR-MARLEY 15-33 - Wellbore #1 - Desig	7,900.00	7,000.68	968.93	931.22	25.699	SF
EXIST VERT HSR-MILTON 10-33 - Wellbore #1 - Design	8,475.96	7,000.68	539.55	493.97	11.839	CC, ES
EXIST VERT HSR-MILTON 10-33 - Wellbore #1 - Design	8,600.00	7,000.68	553.62	506.11	11.652	SF
EXIST VERT HSR-ROBERT 11-33 - Wellbore #1 - Design	400.00	400.00	1,736.41	1,734.88	1,141.122	CC, ES
EXIST VERT HSR-ROBERT 11-33 - Wellbore #1 - Design	10,300.00	7,000.70	2,497.18	2,419.84	32.291	SF
EXIST VERT KRAUSE 1-J - Wellbore #1 - Design #1	13,625.44	7,000.80	3,176.82	3,036.96	22.715	CC
EXIST VERT KRAUSE 1-J - Wellbore #1 - Design #1	13,700.00	7,000.81	3,177.69	3,036.42	22.493	ES
EXIST VERT KRAUSE 1-J - Wellbore #1 - Design #1	15,000.00	7,000.87	3,461.45	3,295.41	20.848	SF
EXIST VERT KRAUSE 28-2 - Wellbore #1 - Design #1	14,143.97	7,000.83	2,037.34	1,887.62	13.608	CC
EXIST VERT KRAUSE 28-2 - Wellbore #1 - Design #1	14,200.00	7,000.83	2,038.11	1,887.33	13.517	ES
EXIST VERT KRAUSE 28-2 - Wellbore #1 - Design #1	14,700.00	7,000.85	2,111.86	1,951.55	13.173	SF
EXIST VERT MANTLE 1 - Wellbore #1 - Design #1	15,556.46	7,000.90	493.50	316.85	2.794	CC, ES
EXIST VERT MANTLE 1 - Wellbore #1 - Design #1	15,600.00	7,000.90	495.42	317.94	2.791	SF
EXIST VERT MANTLE 32-28 - Wellbore #1 - Design #1	15,229.43	7,000.88	1,085.92	915.51	6.372	CC, ES
EXIST VERT MANTLE 32-28 - Wellbore #1 - Design #1	15,400.00	7,000.89	1,099.23	925.57	6.330	SF
EXIST VERT MOSER G 34-30 - Wellbore #1 - Design #1	11,938.32	7,000.74	1,250.61	1,142.70	11.590	CC, ES
EXIST VERT MOSER G 34-30 - Wellbore #1 - Design #1	12,200.00	7,000.75	1,277.69	1,164.85	11.323	SF
EXIST VERT OGG 21-28 - Wellbore #1 - Design #1	16,898.77	7,000.98	2,360.77	2,158.47	11.670	CC

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



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<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LORY 9N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SW SE SEC. 33 T4N R65W 6th P.M. (LORY)						
EXIST VERT OGG 21-28 - Wellbore #1 - Design #1	16,900.00	7,000.98	2,360.77	2,158.45	11.668	ES
EXIST VERT OGG 21-28 - Wellbore #1 - Design #1	17,203.94	7,001.00	2,380.41	2,172.28	11.437	SF
EXIST VERT OGG 22-28 - Wellbore #1 - Design #1	15,294.50	7,000.88	2,068.97	1,897.32	12.053	CC
EXIST VERT OGG 22-28 - Wellbore #1 - Design #1	15,300.00	7,000.89	2,068.97	1,897.22	12.046	ES
EXIST VERT OGG 22-28 - Wellbore #1 - Design #1	15,800.00	7,000.91	2,129.83	1,948.53	11.748	SF
EXIST VERT OGG 31-28 - Wellbore #1 - Design #1	16,617.02	7,000.96	1,062.98	866.07	5.398	CC, ES
EXIST VERT OGG 31-28 - Wellbore #1 - Design #1	16,700.00	7,000.97	1,066.21	867.72	5.371	SF
EXIST VERT OSTER 1 - Wellbore #1 - Design #1	13,198.39	7,000.79	367.49	235.75	2.789	CC
EXIST VERT OSTER 1 - Wellbore #1 - Design #1	13,200.00	7,000.79	367.49	235.72	2.789	ES, SF
EXIST VERT OSTER 43-28 - Wellbore #1 - Design #1	14,163.16	7,000.83	508.09	358.01	3.385	CC, ES
EXIST VERT OSTER 43-28 - Wellbore #1 - Design #1	14,200.00	7,000.83	509.43	358.64	3.378	SF
EXIST VERT OSTER G 28-8A - Wellbore #1 - Design #1	14,958.33	7,000.87	559.06	393.83	3.383	CC, ES
EXIST VERT OSTER G 28-8A - Wellbore #1 - Design #1	15,000.00	7,000.87	560.61	394.58	3.377	SF
EXIST VERT OSTER G 28-9 - Wellbore #1 - Design #1	14,033.87	7,000.82	490.26	342.63	3.321	CC, ES, SF
EXIST VERT OSTER PM G 28-1 - Wellbore #1 - Design	16,718.98	7,000.97	213.84	14.98	1.075	Level 2, CC, ES, SF
EXIST VERT OSTER PM G 28-13 - Wellbore #1 - Design	12,641.92	7,000.77	278.20	157.00	2.295	CC, ES, SF
EXIST VERT OSTER PM G 28-16 - Wellbore #1 - Design	12,641.92	7,000.77	278.20	157.00	2.295	CC, ES, SF
EXIST VERT PEARSON 1 - Wellbore #1 - Design #1	15,742.02	7,000.91	3,177.86	2,997.66	17.636	CC
EXIST VERT PEARSON 1 - Wellbore #1 - Design #1	15,800.00	7,000.91	3,178.38	2,997.08	17.531	ES
EXIST VERT PEARSON 1 - Wellbore #1 - Design #1	16,800.00	7,000.97	3,349.34	3,148.94	16.713	SF
EXIST VERT UPRR 36 PAN AM C #1 - Wellbore #1 - De	400.00	400.00	2,457.86	2,456.34	1,615.245	CC, ES
EXIST VERT UPRR 36 PAN AM C #1 - Wellbore #1 - De	16,400.00	4,707.00	9,929.47	9,768.04	61.509	SF
EXIST VERT UPRR 36 PAN AM C #2 - Wellbore #1 - De	1,483.50	1,462.17	437.10	429.12	54.734	CC
EXIST VERT UPRR 36 PAN AM C #2 - Wellbore #1 - De	1,500.00	1,478.02	437.13	429.01	53.874	ES
EXIST VERT UPRR 36 PAN AM C #2 - Wellbore #1 - De	2,800.00	2,727.68	568.07	551.50	34.270	SF
LORY 10N - ORIGINAL WELLBORE - PROPOSAL #1	472.74	472.88	14.28	12.47	7.880	CC
LORY 10N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.59	17,356.55	305.31	-61.24	0.833	Level 1, SF
LORY 10N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,356.55	305.32	-61.24	0.833	Level 1, ES
LORY 11N - ORIGINAL WELLBORE - PROPOSAL #1	417.02	417.25	28.81	27.23	18.214	CC, ES
LORY 11N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,332.79	594.23	209.39	1.544	SF
LORY 12N - ORIGINAL WELLBORE - PROPOSAL #1	354.43	354.76	43.59	42.26	32.754	CC, ES
LORY 12N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,511.38	883.92	502.33	2.316	SF
LORY 1N - ORIGINAL WELLBORE - PROPOSAL #1	100.00	100.00	120.04	119.86	693.579	CC
LORY 1N - ORIGINAL WELLBORE - PROPOSAL #1	200.00	199.11	120.40	119.79	195.965	ES
LORY 1N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,287.30	2,811.99	2,427.10	7.306	SF
LORY 2N - ORIGINAL WELLBORE - PROPOSAL #1	200.00	200.00	105.14	104.52	168.868	CC, ES
LORY 2N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,301.32	2,520.85	2,135.27	6.538	SF
LORY 3N - ORIGINAL WELLBORE - PROPOSAL #1	300.00	300.00	89.98	88.91	83.929	CC, ES
LORY 3N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,144.83	2,161.99	1,777.59	5.624	SF
LORY 4N - ORIGINAL WELLBORE - PROPOSAL #1	400.00	400.00	74.94	73.42	49.247	CC, ES
LORY 4N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,181.40	1,768.41	1,383.35	4.593	SF
LORY 5N - ORIGINAL WELLBORE - PROPOSAL #1	559.48	558.37	58.95	56.76	26.860	CC, ES
LORY 5N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,092.20	1,419.95	1,036.60	3.704	SF
LORY 6N - ORIGINAL WELLBORE - PROPOSAL #1	642.82	641.91	42.41	39.84	16.516	CC, ES
LORY 6N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,179.85	1,161.62	779.61	3.041	SF
LORY 7N - ORIGINAL WELLBORE - PROPOSAL #1	637.73	637.29	27.86	25.31	10.930	CC, ES
LORY 7N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,102.20	691.85	309.73	1.811	SF
LORY 8N - ORIGINAL WELLBORE - PROPOSAL #1	574.44	574.25	14.17	11.91	6.269	CC
LORY 8N - ORIGINAL WELLBORE - PROPOSAL #1	17,203.94	17,226.85	369.50	-6.14	0.984	Level 1, ES, SF