PDC ENERGY

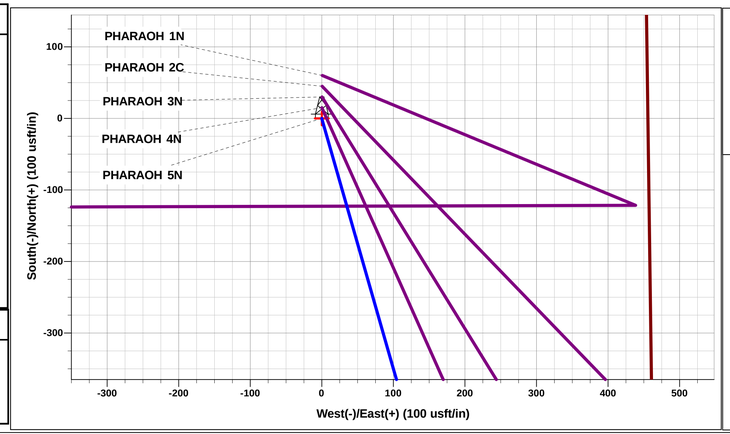
Project: WELD COUNTY, COLORADO (TRUE)
Site: NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)
Well: PHARAOH 5N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #3

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 1653ft FSL & 456ft FEL of Sec 36
300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
1114.46	1125.85	16.52	164.04	-113.66	32.50	-15.61	118.21	EOB TO 16.52° INC
4795.34	4965.16	16.52	164.04	-1163.12	332.57	-159.78	1209.73	END OF TANGENT
5609.80	5791.01	0.00	0.00	-1276.78	365.07	-175.39	1327.95	EOD TO VERTICAL
5809.80	5991.01	0.00	0.00	-1276.78	365.07	-175.39	1327.95	KOP (8°/100ft BUR)
6526.00	7116.75	90.06	269.84	-1278.78	-351.86	534.20	2044.88	EP: 375ft FSL & 825ft FEL of Sec 36
6516.00	16832.70	90.06	269.84	-1305.51	-10067.77	10150.58	11760.83	BHL: 375ft FSL & 50ft FWL of Sec 35

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
KOP - PHARAOH 5N (P3)	5809.80	-1276.78	365.07	40.349716	-104.488605	
EP - PHARAOH 5N (P3)	6526.00	-1278.78	-351.87	40.349710	-104.491177	
BHL - PHARAOH 5N (P3)	6516.00	-1305.51	-10067.77	40.349631	-104.526035	
SHL - PHARAOH 5N (P3)	0.00	0.00	0.00	40.353220	-104.489915	Point

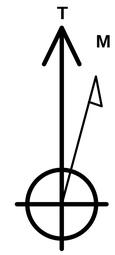


PROPOSED LOCAL COORDINATES:

SHL: 1653ft FSL & 456ft FEL of Sec 36

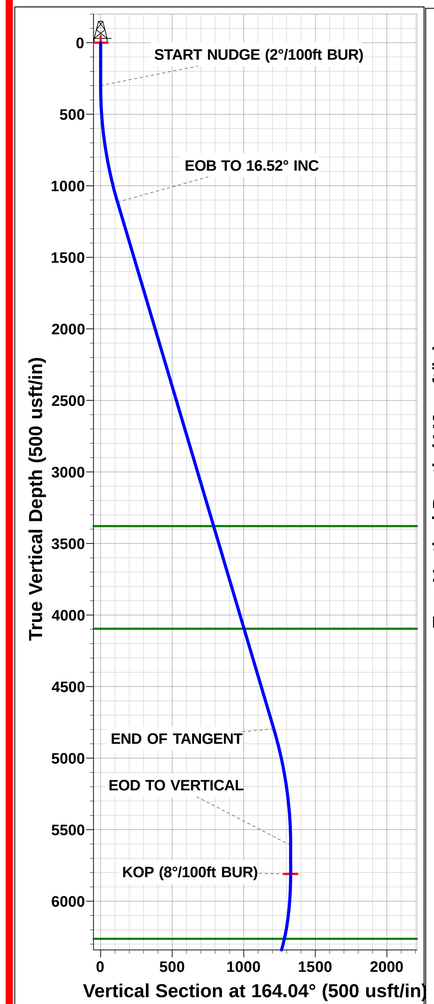
EP: 375ft FSL & 825ft FEL of Sec 36

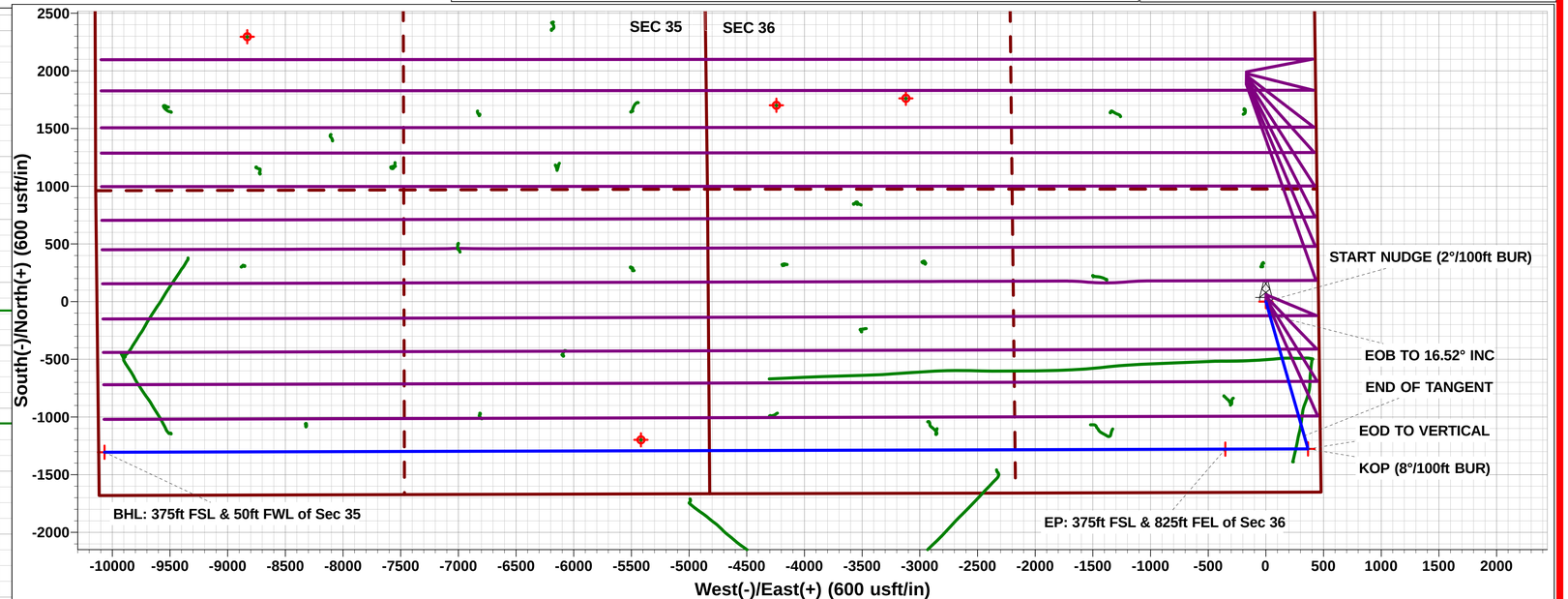
BHL: 375ft FSL & 50ft FWL of Sec 35



Azimuths to True North
Magnetic North: 7.99°

Magnetic Field
Strength: 52321.2snT
Dip Angle: 66.84°
Date: 19/02/2018
Model: IGRF2015





PDC ENERGY

WELD COUNTY, COLORADO (TRUE)
NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)
PHARAOH 5N

ORIGINAL WELLBORE
PROPOSAL #3

Anticollision Report

08 May, 2018

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well PHARAOH 5N
Project:	WELD COUNTY, COLORADO (TRUE)	**TVD Reference:**	KB-EST @ 4616.00usft (Original Well Elev)
Reference Site:	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	**MD Reference:**	KB-EST @ 4616.00usft (Original Well Elev)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	PHARAOH 5N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #3	**Offset TVD Reference:**	Offset Datum

Reference	PROPOSAL #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 08/05/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,832.70	PROPOSAL #3 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)						
PHARAOH 1N - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.00	60.02	58.95	55.980	CC, ES
PHARAOH 1N - ORIGINAL WELLBORE - PROPOSAL #	16,832.70	16,850.69	1,156.87	580.05	2.006	SF
PHARAOH 2C - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.00	45.00	43.93	41.971	CC, ES
PHARAOH 2C - ORIGINAL WELLBORE - PROPOSAL #	16,832.70	16,927.29	876.30	305.48	1.535	SF
PHARAOH 3N - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.00	30.02	28.95	28.005	CC
PHARAOH 3N - ORIGINAL WELLBORE - PROPOSAL #	16,832.70	16,824.25	585.02	7.80	1.014	Level 2, ES, SF
PHARAOH 4N - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.00	15.01	13.94	14.001	CC
PHARAOH 4N - ORIGINAL WELLBORE - PROPOSAL #	16,832.70	16,935.27	294.45	-266.43	0.525	Level 1, ES, SF
SE NE SEC. 36 T5N R64W 6th P.M. (PYRAMID)						
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,237.82	6,517.11	1,561.25	1,400.70	9.724	CC
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,300.00	6,516.95	1,562.49	1,400.20	9.628	ES
ABDN VERT HOSHIKO #1 - Wellbore #1 - Wellbore #1	12,700.00	6,515.90	1,628.23	1,454.75	9.386	SF
ABDN VERT ROTHE STATE B #36-15 - Wellbore #1 - W	8,095.50	6,489.17	174.17	127.79	3.755	CC
ABDN VERT ROTHE STATE B #36-15 - Wellbore #1 - W	8,100.00	6,488.95	174.23	127.74	3.747	ES, SF
ABDN VERT ROTHE STATE B #36-16 - Wellbore #1 - W	7,046.74	6,494.27	441.45	418.68	19.385	CC
ABDN VERT ROTHE STATE B #36-16 - Wellbore #1 - W	7,050.00	6,494.50	441.47	418.64	19.340	ES
ABDN VERT ROTHE STATE B #36-16 - Wellbore #1 - W	7,200.00	6,492.96	467.16	441.68	18.338	SF
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,000.00	6,496.00	2,991.07	2,737.16	11.780	CC
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	11,100.00	6,495.89	2,992.75	2,736.05	11.659	ES
ABDN VERT STATE #1-36 - Wellbore #1 - Design #1	12,000.00	6,494.97	3,153.83	2,872.05	11.192	SF
EXIST DD ECKHARDT B #35-12 - Wellbore #1 - Wellbor	16,103.85	6,637.22	1,676.76	1,406.43	6.203	CC, ES
EXIST DD ECKHARDT B #35-12 - Wellbore #1 - Wellbor	16,400.00	6,638.18	1,702.71	1,424.07	6.111	SF
EXIST DD ECKHARDT B #35-13 - Wellbore #1 - Wellbor	16,255.42	6,620.45	163.02	-111.26	0.594	Level 1, CC, ES, SF
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,096.30	6,681.53	188.04	97.12	2.068	CC
EXIST DD MARLEY C #1-28D - Wellbore #1 - Wellbore #	9,100.00	6,681.55	188.08	97.06	2.066	ES, SF
EXIST DD MARLEY C #1-30D - Wellbore #1 - Wellbore #	11,757.05	6,602.27	420.85	258.63	2.594	CC, ES
EXIST DD MARLEY C #1-30D - Wellbore #1 - Wellbore #	11,800.00	6,602.53	423.04	259.61	2.589	SF
EXIST HZ SOONER STATE B #36-63HN - Wellbore #1 -	3,724.59	3,679.10	125.10	95.02	4.159	CC, ES
EXIST HZ SOONER STATE B #36-63HN - Wellbore #1 -	11,100.00	11,055.00	620.82	365.60	2.433	SF
EXIST VERT BAKER STATE B #36-11 - Wellbore #1 - W	9,714.36	6,514.90	1,610.85	1,520.50	17.830	CC
EXIST VERT BAKER STATE B #36-11 - Wellbore #1 - W	9,800.00	6,514.47	1,613.12	1,520.41	17.400	ES
EXIST VERT BAKER STATE B #36-11 - Wellbore #1 - W	10,500.00	6,511.08	1,792.22	1,680.12	15.989	SF
EXIST VERT BAKER STATE B #36-12 - Wellbore #1 - W	10,910.68	6,520.79	1,610.60	1,487.06	13.037	CC
EXIST VERT BAKER STATE B #36-12 - Wellbore #1 - W	11,000.00	6,520.58	1,613.08	1,487.05	12.800	ES
EXIST VERT BAKER STATE B #36-12 - Wellbore #1 - W	11,500.00	6,519.36	1,715.03	1,575.07	12.254	SF

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well PHARAOH 5N
Project:	WELD COUNTY, COLORADO (TRUE)	**TVD Reference:**	KB-EST @ 4616.00usft (Original Well Elev)
Reference Site:	NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH)	**MD Reference:**	KB-EST @ 4616.00usft (Original Well Elev)
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	PHARAOH 5N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #3	**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 NE SEC. 36 T5N R64W 6th P.M. (PYRAMID)						
EXIST VERT BAKER STATE B #36-13 - Wellbore #1 - W	11,004.16	6,504.29	320.47	194.34	2.541	CC, ES, SF
EXIST VERT BAKER STATE B #36-14 - Wellbore #1 - W	9,616.39	6,507.30	180.90	93.29	2.065	CC, ES, SF
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	10,267.50	6,500.00	2,124.43	2,018.75	20.103	CC
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	10,300.00	6,500.00	2,124.68	2,018.10	19.936	ES
EXIST VERT CLYNCKE STATE B #36-20 - Wellbore #1	11,500.00	6,500.00	2,456.06	2,316.09	17.547	SF
EXIST VERT CLYNCKE STATE B #36-25 - Wellbore #1	10,227.97	6,505.29	1,053.29	948.69	10.070	CC, ES
EXIST VERT CLYNCKE STATE B #36-25 - Wellbore #1	10,500.00	6,498.24	1,087.83	975.70	9.702	SF
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,627.95	6,513.28	1,616.62	1,360.93	6.323	CC
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,700.00	6,512.58	1,618.22	1,360.51	6.279	ES
EXIST VERT CPC-HOSHIKO #35-1 - Wellbore #1 - Well	15,900.00	6,510.62	1,639.34	1,376.03	6.226	SF
EXIST VERT ECKHARDT B #35-33 - Wellbore #1 - Well	16,652.44	6,521.50	827.37	543.09	2.910	CC, ES
EXIST VERT ECKHARDT B #35-33 - Wellbore #1 - Well	16,700.00	6,522.53	828.74	543.12	2.902	SF
EXIST VERT HOSHIKO #2 - Wellbore #1 - Wellbore #1	13,575.33	6,557.97	327.55	129.29	1.652	CC, ES
EXIST VERT HOSHIKO #2 - Wellbore #1 - Wellbore #1	13,600.00	6,558.02	328.47	129.53	1.651	SF
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	13,746.33	6,548.51	1,726.06	1,522.99	8.500	CC
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	13,800.00	6,548.40	1,726.89	1,522.32	8.442	ES
EXIST VERT HOSHIKO #35-10H4 - Wellbore #1 - Wellb	14,200.00	6,547.59	1,784.68	1,568.91	8.271	SF
EXIST VERT HOSHIKO #35-16H4 - Wellbore #1 - Desig	12,181.86	6,539.78	94.65	-191.66	0.331	Level 1, CC, ES, SF
EXIST VERT HOSHIKO B #35-14 - Wellbore #1 - Wellbo	15,085.86	6,541.67	242.21	1.86	1.008	Level 2, CC, ES, SF
EXIST VERT HOSHIKO B #35-23 - Wellbore #1 - Wellbo	12,852.38	6,545.01	826.04	648.09	4.642	CC, ES
EXIST VERT HOSHIKO B #35-23 - Wellbore #1 - Wellbo	13,000.00	6,545.11	839.13	657.05	4.609	SF
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	14,848.86	6,490.02	2,700.16	2,466.30	11.546	CC
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	14,900.00	6,490.01	2,700.64	2,465.35	11.478	ES
EXIST VERT LOLOFF #35-6 - Wellbore #1 - Wellbore #1	15,700.00	6,489.94	2,831.13	2,573.40	10.985	SF
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	12,197.38	6,509.65	3,017.14	2,857.67	18.920	CC
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	12,300.00	6,509.15	3,018.89	2,856.55	18.596	ES
EXIST VERT LOLOFF #35-8 - Wellbore #1 - Wellbore #1	13,800.00	6,501.35	3,416.34	3,212.03	16.721	SF
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	13,590.90	6,470.88	2,946.76	2,748.09	14.832	CC
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	13,700.00	6,470.40	2,948.78	2,747.05	14.618	ES
EXIST VERT LOLOFF #4 - Wellbore #1 - Wellbore #1	14,800.00	6,465.51	3,185.16	2,952.62	13.697	SF
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	12,948.55	6,520.00	3,645.61	3,464.86	20.169	CC
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	13,100.00	6,518.92	3,648.75	3,463.76	19.724	ES
EXIST VERT LOLOFF B #35-17 - Wellbore #1 - Wellbore	15,000.00	6,504.65	4,183.13	3,944.91	17.560	SF
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	15,585.23	6,545.28	3,597.95	3,216.29	9.427	CC
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	15,700.00	6,545.16	3,599.78	3,214.90	9.353	ES
EXIST VERT LOLOFF B #35-19 - Wellbore #1 - Design #	16,500.00	6,544.34	3,712.42	3,305.11	9.114	SF
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	15,476.41	6,521.97	2,409.62	2,157.94	9.574	CC
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	15,500.00	6,521.81	2,409.74	2,157.39	9.549	ES
EXIST VERT LOLOFF B #35-20 - Wellbore #1 - Wellbore	16,100.00	6,517.77	2,489.00	2,219.82	9.247	SF
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	14,308.04	6,438.30	2,498.64	2,280.29	11.443	CC
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	14,400.00	6,437.85	2,500.34	2,279.41	11.317	ES
EXIST VERT LOLOFF B #35-21 - Wellbore #1 - Wellbore	15,100.00	6,434.39	2,621.15	2,380.62	10.897	SF
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	12,884.55	6,456.63	2,491.31	2,312.63	13.943	CC
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	13,000.00	6,455.09	2,493.99	2,312.08	13.710	ES
EXIST VERT LOLOFF B #35-22 - Wellbore #1 - Wellbore	13,900.00	6,443.26	2,690.28	2,483.20	12.992	SF
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	8,141.37	6,499.63	1,474.84	1,427.11	30.904	CC
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	8,200.00	6,499.31	1,476.00	1,426.75	29.968	ES
EXIST VERT ROTHE STATE B #36-10 - Wellbore #1 - W	9,400.00	6,493.13	1,938.87	1,857.23	23.749	SF
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	100.00	64.59	2,120.46	2,120.37	10,000.000	CC
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	301.20	275.04	2,120.92	2,120.11	2,616.592	ES
EXIST VERT ROTHE STATE B #36-7 - Wellbore #1 - We	13,500.00	6,471.78	6,195.61	5,999.80	31.640	SF
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	100.00	70.50	1,671.68	1,671.59	10,000.000	CC

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Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	PHARAOH 5N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	**Database:**	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #3	**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 NE SEC. 36 T5N R64W 6th P.M. (PYRAMID)						
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	300.00	269.66	1,671.81	1,671.00	2,073.022	ES
EXIST VERT ROTHE STATE B #36-8 - Wellbore #1 - We	16,500.00	6,500.00	9,977.32	9,697.36	35.638	SF
EXIST VERT ROTHE STATE B #36-9 - Wellbore #1 - We	317.21	294.02	304.75	303.91	365.470	CC, ES
EXIST VERT ROTHE STATE B #36-9 - Wellbore #1 - We	16,600.00	6,458.55	9,951.42	9,668.75	35.205	SF
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	9,876.86	6,511.15	3,048.28	2,826.39	13.738	CC
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	10,000.00	6,511.03	3,050.76	2,825.47	13.541	ES
EXIST VERT STATE #22-36 - Wellbore #1 - Design #1	11,000.00	6,510.00	3,248.60	2,995.56	12.838	SF
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,270.34	6,400.00	2,993.03	2,719.69	10.950	CC
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,400.00	6,400.00	2,995.84	2,718.87	10.816	ES
EXIST VERT STROH #1 - Wellbore #1 - Wellbore #1	16,832.70	6,400.00	3,045.40	2,756.30	10.534	SF
PYRAMID 1N - ORIGINAL WELLBORE - PROPOSAL #1	300.00	295.00	1,998.26	1,997.20	1,883.558	CC, ES
PYRAMID 1N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	16,819.91	3,402.85	2,827.23	5.912	SF
PYRAMID 2N - ORIGINAL WELLBORE - PROPOSAL #1	300.00	295.00	1,983.31	1,982.25	1,869.467	CC, ES
PYRAMID 2N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	16,746.60	3,132.06	2,556.24	5.439	SF
PYRAMID 3N - ORIGINAL WELLBORE - PROPOSAL #1	300.00	295.00	1,968.37	1,967.31	1,855.385	CC, ES
PYRAMID 3N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	16,838.44	2,812.90	2,237.35	4.887	SF
PYRAMID 4N - ORIGINAL WELLBORE - PROPOSAL #1	300.00	295.00	1,953.47	1,952.41	1,841.338	CC, ES
PYRAMID 4N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	16,779.39	2,592.06	2,016.58	4.504	SF
PYRAMID 5N - ORIGINAL WELLBORE - PROPOSAL #1	300.00	295.00	1,938.53	1,937.47	1,827.258	CC
PYRAMID 5N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	16,896.97	2,302.93	1,727.47	4.002	ES, SF
PYRAMID 6N - ORIGINAL WELLBORE - PROPOSAL #1	1,122.11	1,661.32	1,911.28	1,904.91	299.905	CC
PYRAMID 6N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	16,894.59	2,010.12	1,434.30	3.491	ES, SF
PYRAMID 7N - ORIGINAL WELLBORE - PROPOSAL #1	4,510.69	5,052.32	1,702.26	1,670.35	53.340	CC
PYRAMID 7N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	17,028.49	1,756.28	1,180.56	3.051	ES, SF
PYRAMID 8N - ORIGINAL WELLBORE - PROPOSAL #1	4,546.71	5,100.00	1,405.16	1,371.45	41.682	CC
PYRAMID 8N - ORIGINAL WELLBORE - PROPOSAL #1	16,832.70	17,065.95	1,460.05	883.96	2.534	ES, SF

Offset Design NE SE SEC. 36 T5N R64W 6th P.M. (PHARAOH) - PHARAOH 1N - ORIGINAL WELLBORE - PROPO

Survey Program: 0-MWD

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (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
0.00	0.00	0.00	0.00	0.00	0.00	0.67	60.01	0.70	60.02				
100.00	100.00	100.00	100.00	0.09	0.09	0.67	60.01	0.70	60.02	59.84	0.17	346.784	
200.00	200.00	200.00	200.00	0.31	0.31	0.67	60.01	0.70	60.02	59.40	0.62	96.399	
300.00	300.00	300.00	300.00	0.54	0.54	0.67	60.01	0.70	60.02	58.95	1.07	55.980	CC, ES
400.00	399.98	399.98	399.98	0.74	0.76	-163.83	60.01	0.70	61.69	60.19	1.50	41.078	
500.00	499.84	499.84	499.84	0.94	0.99	-165.06	60.01	0.70	66.73	64.81	1.93	34.630	
600.00	599.45	599.45	599.45	1.17	1.21	-166.73	60.01	0.70	75.19	72.82	2.37	31.783	
700.00	698.70	698.70	698.70	1.44	1.43	-168.52	60.01	0.70	87.10	84.29	2.81	30.973	
800.00	797.47	797.47	797.47	1.77	1.65	-170.21	60.01	0.70	102.48	99.22	3.26	31.406	
900.00	895.62	895.62	895.62	2.14	1.87	-171.69	60.01	0.70	121.33	117.62	3.72	32.638	
1,000.00	993.06	993.06	993.06	2.58	2.09	-172.93	60.01	0.70	143.64	139.46	4.17	34.406	
1,100.00	1,089.64	1,089.64	1,089.64	3.08	2.31	-173.95	60.01	0.70	169.36	164.72	4.63	36.543	
1,125.85	1,114.46	1,114.46	1,114.46	3.22	2.37	-174.18	60.01	0.70	176.56	171.81	4.75	37.142	
1,200.00	1,185.55	1,185.55	1,185.55	3.62	2.53	-174.80	60.01	0.70	197.55	192.45	5.11	38.687	
1,300.00	1,281.42	1,281.42	1,281.42	4.19	2.74	-175.45	60.01	0.70	225.89	220.30	5.59	40.429	
1,400.00	1,377.30	1,377.30	1,377.30	4.76	2.96	-175.96	60.01	0.70	254.25	248.17	6.07	41.864	
1,500.00	1,473.17	1,473.17	1,473.17	5.33	3.17	-176.37	60.01	0.70	282.62	276.05	6.56	43.065	

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