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 -----SCHLUMBERGER-----

SCHLUMBERGER DIRECTIONAL SURVEY

SHELL OIL CO.

ISLETA # 2

WILD CAT

BERNALILLO COUNTY, NEW MEXICO

RUN NO. 3	5000 - 14466	8-FEB-80	3523
RUN NO. 4	14516 - 16276	9-MAR-80	3557
RUN NO. 5	16276 - 18226	2-APR-80	3612

SURVEY IS TIED-IN TO RUN #4 AT 16276 FT.

TANGENTIAL METHOD

REFERENCE JOB 3612.

DEPTH	DEVIATION	AZIMUTH	TRUE	CO-ORDINATES	COURSE
FEET	DEGREES	DEGREES	DEPTH	+ NORTH * + EAST	LENGTH
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
16276.0	11.0	182.0	16222.3	-817.1	1034.2
16280.0	11.3	200.0	16226.2	-817.8	1035.0
16290.0	11.2	199.0	16236.0	-819.7	1036.8
16300.0	11.1	196.0	16245.8	-821.5	1038.6
16310.0	10.9	198.0	16255.7	-823.3	1040.4
16320.0	10.8	198.0	16265.5	-825.1	1042.1
16330.0	10.8	199.0	16275.3	-826.9	1043.9
16340.0	10.6	199.0	16285.1	-828.6	1045.7
16350.0	10.5	200.0	16295.0	-830.3	1047.4
16360.0	10.3	199.0	16304.8	-832.0	1049.1
16370.0	10.3	198.0	16314.6	-833.7	1050.8
16380.0	10.2	200.0	16324.5	-835.4	1052.5
16390.0	10.0	199.0	16334.3	-837.0	1054.1
16400.0	9.9	199.0	16344.2	-838.7	1055.7
16410.0	9.8	199.0	16354.0	-840.3	1057.4
16420.0	9.8	198.0	16363.9	-841.9	1059.0
16430.0	9.9	198.0	16373.8	-843.5	1060.6
16440.0	9.7	198.0	16383.6	-845.1	1062.2
16450.0	9.9	202.0	16393.5	-846.7	1063.8
16460.0	9.8	198.0	16403.3	-848.3	1065.4
16470.0	9.8	199.0	16413.2	-849.9	1067.1
16480.0	9.9	199.0	16423.0	-851.6	1068.7
16490.0	9.8	198.0	16432.9	-853.2	1070.3
16500.0	9.7	200.0	16442.7	-854.8	1071.9
16510.0	9.8	201.0	16452.6	-856.4	1073.5
16520.0	9.7	199.0	16462.4	-857.9	1075.1
16530.0	9.7	200.0	16472.3	-859.5	1076.8
16540.0	9.6	199.0	16482.2	-861.1	1078.3
16550.0	9.5	199.0	16492.0	-862.7	1079.9
16560.0	9.4	200.0	16501.9	-864.2	1081.5
16570.0	9.5	199.0	16511.7	-865.8	1083.0
16580.0	9.4	198.0	16521.6	-867.3	1084.6
16590.0	9.3	196.0	16531.5	-868.9	1086.1
16600.0	9.2	198.0	16541.4	-870.4	1087.6
16610.0	9.2	198.0	16551.2	-871.9	1089.1
16620.0	9.2	198.0	16561.1	-873.4	1090.6
16630.0	9.2	198.0	16571.0	-875.0	1092.2
16640.0	9.1	197.0	16580.8	-876.5	1093.6
16650.0	9.0	200.0	16590.7	-877.9	1095.1
16660.0	8.9	202.0	16600.6	-879.4	1096.6
16670.0	8.9	200.0	16610.5	-880.8	1098.1
16680.0	8.9	198.0	16620.4	-882.3	1099.6
16690.0	8.9	197.0	16630.2	-883.8	1101.0
16700.0	8.8	201.0	16640.1	-885.2	1102.5
16710.0	8.9	198.0	16650.0	-886.7	1104.0
16720.0	8.9	198.0	16659.9	-888.1	1105.4



1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the statistical analysis performed.

3. The third part of the document presents the results of the study. It includes a series of tables and graphs that illustrate the findings of the research. The data shows a clear trend of increasing activity over time.

4. The fourth part of the document discusses the implications of the findings. It suggests that the results have significant implications for the field of study and may lead to further research in this area.

5. The fifth part of the document concludes the study. It summarizes the key findings and provides a final statement on the importance of the research.

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*          *          *          *          *          *          *          *
* DEPTH  * DEVIATION * AZIMUTH * TRUE      * CO-ORDINATES *          *
* FEET   * DEGREES  * DEGREES * DEPTH  * + NORTH * + EAST * COURSE *
*        *         *         * FEET   * - SOUTH * - WEST * LENGTH *
*        *         *         *         *         *         * FEET   *
*****
* 16730.0 * 8.9    * 197.0 * 16669.8 * -889.6 * -658.6 * 1106.9 *
* 16740.0 * 9.0    * 197.0 * 16679.6 * -891.1 * -659.1 * 1108.4 *
* 16750.0 * 9.0    * 195.0 * 16689.5 * -892.6 * -659.5 * 1109.8 *
* 16760.0 * 9.1    * 197.0 * 16699.4 * -894.1 * -660.0 * 1111.3 *
* 16770.0 * 9.0    * 198.0 * 16709.3 * -895.6 * -660.4 * 1112.8 *
* 16780.0 * 9.0    * 199.0 * 16719.1 * -897.1 * -661.0 * 1114.3 *
* 16790.0 * 9.0    * 198.0 * 16729.0 * -898.6 * -661.4 * 1115.8 *
* 16800.0 * 9.0    * 198.0 * 16738.9 * -900.1 * -661.9 * 1117.3 *
* 16810.0 * 9.0    * 197.0 * 16748.8 * -901.6 * -662.4 * 1118.8 *
* 16820.0 * 9.1    * 198.0 * 16758.6 * -903.1 * -662.9 * 1120.3 *
* 16830.0 * 9.1    * 199.0 * 16768.5 * -904.6 * -663.4 * 1121.8 *
* 16840.0 * 9.0    * 196.0 * 16778.4 * -906.1 * -663.8 * 1123.2 *
* 16850.0 * 9.1    * 195.0 * 16788.3 * -907.6 * -664.2 * 1124.7 *
* 16860.0 * 9.1    * 197.0 * 16798.1 * -909.1 * -664.7 * 1126.2 *
* 16870.0 * 9.2    * 197.0 * 16808.0 * -910.7 * -665.2 * 1127.7 *
* 16880.0 * 9.3    * 194.0 * 16817.9 * -912.2 * -665.5 * 1129.2 *
* 16890.0 * 9.3    * 196.0 * 16827.8 * -913.8 * -666.0 * 1130.7 *
* 16900.0 * 9.3    * 197.0 * 16837.6 * -915.3 * -666.5 * 1132.3 *
* 16910.0 * 9.4    * 197.0 * 16847.5 * -916.9 * -666.9 * 1133.8 *
* 16920.0 * 9.4    * 198.0 * 16857.4 * -918.4 * -667.4 * 1135.3 *
* 16930.0 * 9.5    * 198.0 * 16867.2 * -920.0 * -668.0 * 1136.9 *
* 16940.0 * 9.7    * 197.0 * 16877.1 * -921.6 * -668.5 * 1138.5 *
* 16950.0 * 10.0   * 194.0 * 16886.9 * -923.3 * -668.9 * 1140.1 *
* 16960.0 * 10.1   * 196.0 * 16896.8 * -925.0 * -669.4 * 1141.8 *
* 16970.0 * 10.2   * 195.0 * 16906.6 * -926.7 * -669.8 * 1143.4 *
* 16980.0 * 10.3   * 195.0 * 16916.4 * -928.4 * -670.3 * 1145.1 *
* 16990.0 * 10.4   * 196.0 * 16926.3 * -930.2 * -670.8 * 1146.8 *
* 17000.0 * 10.5   * 199.0 * 16936.1 * -931.9 * -671.4 * 1148.5 *
* 17010.0 * 10.5   * 198.0 * 16945.9 * -933.6 * -671.9 * 1150.3 *
* 17020.0 * 10.5   * 197.0 * 16955.8 * -935.4 * -672.5 * 1152.0 *
* 17030.0 * 10.6   * 198.0 * 16965.6 * -937.1 * -673.0 * 1153.8 *
* 17040.0 * 10.5   * 198.0 * 16975.4 * -938.8 * -673.6 * 1155.5 *
* 17050.0 * 10.6   * 196.0 * 16985.3 * -940.6 * -674.1 * 1157.2 *
* 17060.0 * 10.8   * 198.0 * 16995.1 * -942.4 * -674.7 * 1159.0 *
* 17070.0 * 10.8   * 197.0 * 17004.9 * -944.2 * -675.2 * 1160.8 *
* 17080.0 * 10.9   * 198.0 * 17014.7 * -946.0 * -675.8 * 1162.6 *
* 17090.0 * 11.0   * 197.0 * 17024.6 * -947.8 * -676.4 * 1164.4 *
* 17100.0 * 11.1   * 196.0 * 17034.4 * -949.7 * -676.9 * 1166.2 *
* 17110.0 * 11.1   * 198.0 * 17044.2 * -951.5 * -677.5 * 1168.0 *
* 17120.0 * 11.1   * 197.0 * 17054.0 * -953.3 * -678.1 * 1169.9 *
* 17130.0 * 11.1   * 197.0 * 17063.8 * -955.2 * -678.6 * 1171.7 *
* 17140.0 * 11.1   * 196.0 * 17073.6 * -957.0 * -679.2 * 1173.5 *
* 17150.0 * 11.2   * 193.0 * 17083.4 * -958.9 * -679.6 * 1175.3 *
* 17160.0 * 11.2   * 197.0 * 17093.2 * -960.8 * -680.2 * 1177.2 *
* 17170.0 * 11.2   * 196.0 * 17103.0 * -962.6 * -680.7 * 1179.0 *
* 17180.0 * 11.2   * 197.0 * 17112.9 * -964.5 * -681.3 * 1180.8 *
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3 39vd

***** COURSE *****

* 1934 * 1934 - * 1934 - * 1934 *

* 17208.0 # 11.1 * 197.0 * 17122.7 * -966.4 * -681.8 * 1182.7 *

* 17220.0 * 11.2 * 196.0 * 17153.1 * -871.8 * -683.5 * 1186.4 *

* 17240.0 * 11.1 * 197.0 * 17171.7 * -975.6 * -684.7 * 1191.9 *

* 17260.0 * 11.1 * 197.0 * 17191.3 * -979.3 * -685.7 * 1195.5 *

* 17280.0 * 11.1 * 199.0 * 17211.0 * -983.0 * -686.9 * 1199.2 *

* 17500.0 * 11.0 * 197.0 * 17230.6 * -986.6 * -688.0 * 1202.8 *

17320.0 * 11.1 * 197.0 * 17250.2 * -990.3 * -689.2 * 1206.5 *

* 17350.0 * 11.0 * 197.0 * 17269.9 * -994.0 * -690.3 * 1210.2 *

* 17370.0 * 11.1 * 197.0 * 6827.2 * 3.500 * 8.169 * 8.6121 *

* 17390.0 * 11.1 * 196.0 * 17318.9 * 1003.1 * 693.0 * 312.1 * 1217.5 *

17410.0 * 11.1 * 196.0 * 17338.6 * -1006.8 * -694.1 * 1727.0 *

17430.0 * 11.2 * 196.0 * 17358.2 * -1010.6 * -695.1 * 1226.5 *

17450.0 * 11.0 * 199.0 * 17377.8 * -1014.2 * -696.2 * 1230.2 *

11.1 * 194.0 * 17397.4 * -1018.0 * -697.2 * 1233.8 *

* 196.0 * 17417.1 * -1021.7 * -698.2 * 1237.5 *

17520-0 * 11.5 * 197.0 * 17436.7 * -1025.5 * -699.3 * 1241.3 *

17540.0 * 11-4

17560.0 * 11.4 * 198-0 * 17485.7 * -1038.0 * -303.3 * 1258.8 * 1248.9 *

17580.0 * 11.3 * 197.0 * 17505.3 * -1038.7 * -703.5 * 1754.5 *

17600.0 * 11.2 * 198.0 * 17524.9 * -1042.4 * -704.7 * 1258.3 *

11.1 * 197.0 * 17544.5 * -1046.1 * -705.8 * 1262.0 *

11.1 * 17640.0 * 198.0 * 17564.1 * -1049.8 * -706.9 * 1265.6 *


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*          *          *          * TRUE          * CO-ORDINATES *          *
* DEPTH * DEVIATION * AZIMUTH * VERTICAL * ***** COURSE *
* FEET * DEGREES * DEGREES * DEPTH * * + NORTH * + EAST * LENGTH *
*          *          *          * FEET * * - SOUTH * - WEST * FEET *
*****
* 17650.0 * 11.0 * 196.0 * 17574.0 * -1051.6 * -707.4 * 1267.4 *
* 17660.0 * 11.0 * 197.0 * 17583.8 * -1053.5 * -708.0 * 1269.3 *
* 17670.0 * 10.9 * 197.0 * 17593.6 * -1055.3 * -708.6 * 1271.1 *
* 17680.0 * 11.0 * 197.0 * 17603.4 * -1057.1 * -709.1 * 1272.9 *
* 17690.0 * 11.0 * 196.0 * 17613.2 * -1058.9 * -709.6 * 1274.7 *
* 17700.0 * 11.0 * 197.0 * 17623.0 * -1060.8 * -710.2 * 1276.6 *
* 17710.0 * 11.1 * 197.0 * 17632.9 * -1062.6 * -710.8 * 1278.4 *
* 17720.0 * 11.0 * 197.0 * 17642.7 * -1064.4 * -711.3 * 1280.2 *
* 17730.0 * 10.9 * 197.0 * 17652.5 * -1066.2 * -711.9 * 1282.0 *
* 17740.0 * 11.0 * 196.0 * 17662.3 * -1068.1 * -712.4 * 1283.9 *
* 17750.0 * 11.0 * 197.0 * 17672.1 * -1069.9 * -713.0 * 1285.7 *
* 17760.0 * 11.0 * 197.0 * 17681.9 * -1071.7 * -713.5 * 1287.5 *
* 17770.0 * 10.9 * 197.0 * 17691.8 * -1073.5 * -714.1 * 1289.3 *
* 17780.0 * 10.9 * 197.0 * 17701.6 * -1075.3 * -714.6 * 1291.1 *
* 17790.0 * 10.9 * 196.0 * 17711.4 * -1077.1 * -715.1 * 1292.9 *
* 17800.0 * 10.9 * 197.0 * 17721.2 * -1079.0 * -715.7 * 1294.7 *
* 17810.0 * 11.0 * 197.0 * 17731.0 * -1080.8 * -716.3 * 1296.6 *
* 17820.0 * 10.9 * 197.0 * 17740.9 * -1082.6 * -716.8 * 1298.4 *
* 17830.0 * 10.9 * 197.0 * 17750.7 * -1084.4 * -717.4 * 1300.2 *
* 17840.0 * 10.9 * 197.0 * 17760.5 * -1086.2 * -717.9 * 1302.0 *
* 17850.0 * 10.9 * 197.0 * 17770.3 * -1088.0 * -718.5 * 1303.8 *
* 17860.0 * 10.9 * 196.0 * 17780.1 * -1089.8 * -719.0 * 1305.6 *
* 17870.0 * 10.9 * 197.0 * 17790.0 * -1091.6 * -719.5 * 1307.4 *
* 17880.0 * 10.9 * 196.0 * 17799.8 * -1093.5 * -720.1 * 1309.3 *
* 17890.0 * 10.9 * 197.0 * 17809.6 * -1095.3 * -720.6 * 1311.1 *
* 17900.0 * 10.9 * 197.0 * 17819.4 * -1097.1 * -721.2 * 1312.9 *
* 17910.0 * 10.9 * 197.0 * 17829.2 * -1098.9 * -721.7 * 1314.7 *
* 17920.0 * 10.9 * 197.0 * 17839.0 * -1100.7 * -722.3 * 1316.5 *
* 17930.0 * 10.9 * 197.0 * 17848.9 * -1102.5 * -722.8 * 1318.3 *
* 17940.0 * 10.9 * 197.0 * 17858.7 * -1104.3 * -723.4 * 1320.1 *
* 17950.0 * 10.9 * 197.0 * 17868.5 * -1106.1 * -723.9 * 1322.0 *
* 17960.0 * 10.9 * 197.0 * 17878.3 * -1107.9 * -724.5 * 1323.8 *
* 17970.0 * 10.9 * 197.0 * 17888.1 * -1109.7 * -725.0 * 1325.6 *
* 17980.0 * 10.9 * 197.0 * 17898.0 * -1111.5 * -725.6 * 1327.4 *
* 17990.0 * 10.8 * 197.0 * 17907.8 * -1113.3 * -726.1 * 1329.2 *
* 18000.0 * 10.8 * 197.0 * 17917.6 * -1115.1 * -726.7 * 1331.0 *
* 18010.0 * 10.8 * 197.0 * 17927.4 * -1116.9 * -727.2 * 1332.8 *
* 18020.0 * 10.8 * 197.0 * 17937.3 * -1118.7 * -727.8 * 1334.6 *
* 18030.0 * 10.8 * 197.0 * 17947.1 * -1120.5 * -728.3 * 1336.4 *
* 18040.0 * 10.8 * 197.0 * 17956.9 * -1122.3 * -728.9 * 1338.2 *
* 18050.0 * 10.8 * 197.0 * 17966.7 * -1124.1 * -729.4 * 1340.0 *
* 18060.0 * 10.8 * 196.0 * 17976.5 * -1125.9 * -729.9 * 1341.8 *
* 18070.0 * 10.8 * 197.0 * 17986.4 * -1127.7 * -730.5 * 1343.6 *
* 18080.0 * 10.8 * 196.0 * 17996.2 * -1129.5 * -731.0 * 1345.4 *
* 18090.0 * 10.9 * 197.0 * 18006.0 * -1131.3 * -731.6 * 1347.2 *
* 18100.0 * 10.9 * 197.0 * 18015.8 * -1133.1 * -732.1 * 1349.0 *
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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the sampling process and the statistical tools employed.

3. The third part of the document presents the results of the study, showing the distribution of data points and the overall trends observed. It includes several tables and graphs to illustrate the findings.

4. The fourth part of the document discusses the implications of the results and provides recommendations for future research. It highlights the need for further investigation into certain areas and suggests potential areas for exploration.

5. The fifth part of the document concludes the study, summarizing the key findings and the overall contribution of the research. It expresses the hope that the results will be useful to other researchers and practitioners in the field.

PAGE 5

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* * * * * DEPTH * * * * * DEVIATION * * * * * AZIMUTH * * * * * VERTICAL * * * * * COURSE * * * * * LENGTH * * * * * EAST * * * * * NORTH * * * * * DEPTH * * * * *
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* FEET * - SOUTH * - WEST * FEET *

* 18110.0 * 10.9 * 197.0 * 18025.7 * -1134.9 * -732.7 * 1350.9 *

* 18130.0	* 10.9	* 196.0	* 18045.3	* -1138.5	* -733.7	* 1354.5
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18150.0	*	10.9	*	197.0	*	18035.1	*	-1140.4	*	-734.3	*	1356.3	*
18064.9	*	196.8	*	18064.9	*	-1147.2	*	-734.8	*	1356.3	*	1356.3	*

* 18170.0	#	11.0	*	195.0	*	18074.7	*	-1144.0	*	-735.3	*	1359.9	*
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18180.0	*	11.0	*	195.0	*	18094.4	*	-1147.7	*	-736.2	*	1363.6	*
18180.0	*	11.0	*	195.0	*	18094.4	*	-1147.7	*	-736.2	*	1363.6	*

[illegible]

18210.0 *	11.0 *	194.0 *	18123.8 *	-1153.3 *	-737.6 *	1369.0 *
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18226.0	*	11.0	*	194.0	*	18139.5	*	-1156.2	*	-738.4	*	1371.9	*
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*****
*                                     *
*          BOTTOM HOLE LOCATION          *
*                                     *
* COURSE LENGTH:          1371.9    FEET *
*                                     *
* COURSE AZIMUTH:         212.6    DEGREES *
*                                     *
* MEASURED DEPTH:         18226.0    FEET *
*                                     *
* TRUE VERTICAL DEPTH:    18139.5    FEET *
*                                     *
* DISTANCE SOUTH:         1156.2    FEET *
*                                     *
* DISTANCE WEST:          738.4    FEET *
*                                     *
*          TANGENTIAL METHOD          *
*                                     *
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*                                     *
*          BOTTOM HOLE LOCATION          *
*                                     *
* COURSE LENGTH:          1371.9    FEET *
*                                     *
* COURSE AZIMUTH:         212.6    DEGREES *
*                                     *
* MEASURED DEPTH:         18226.0    FEET *
*                                     *
* TRUE VERTICAL DEPTH:    18139.5    FEET *
*                                     *
* DISTANCE SOUTH:         1156.2    FEET *
*                                     *
* DISTANCE WEST:          738.4    FEET *
*                                     *
*          TANGENTIAL METHOD          *
*                                     *
*****

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