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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.

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CO-ORDINATES

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* * DEPTH * AZIMUTH * AGRICAL * ***** COURSE * *
* * DEGREES * DEGREE * NORTH * EAST * LENGTH * *
* * * * *
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[illegible]

16276.0	11.0	182.0	16222.3	-817.1	-634.0	1034.2
16280.0	11.3	200.0	16235.3	-817.8	-634.3	1035.0

16290.0	11.2	199.0	16235.0	-819.7	-634.9	1036.8
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* 16300.0 * 11.1 * 196.0 * 16245.8 * -821.5 * -635.4 * 1038.6 *

16320.0	10.8	198.0	16265.5	-825.1	-6375.6	10432.1
16310.0	10.9	198.0	16255.7	-823.3	-6356.0	10400.4

16330.0	10.8	199.0	16275.3	-826.9	-637.2	1043.9
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* 16340.0 * 10.6 * 199.0 * 16285.1 * -828.6 * -637.8 * 1045.7 *

16350.0	10.5	200.0	16295.0	-630.3	-638.4	1047.4
16360.0	10.3	189.0	16304.8	-637.0	-638.0	1048.1

16370.0	10.3	198.0	16314.6	-833.7	-639.6	1050.8
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* 16380.0 * 10.2 * 200.0 * 16324.5 * -835.4 * -640.2 * 1052.5 *

16390.0	10.0	199.0	16334.3	-837.0	-640.7	1054.1
16400.0	8.8	198.8	16344.3	-838.7	-641.3	1055.7

16410.0	9.8	199.0	16354.0	-840.3	-641.8	1057.4
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* 16420.0 * 9.8 * 198.0 * 16363.9 * -841.9 * -642.4 * 1059.0 *

* 16430.0 *	* 198.0 *	* 16373.8 *	* -843.5 *	* -642.9 *	* 1060.6 *
* 16440.0 *	* 198.0 *	* 16381.6 *	* -845.1 *	* -641.4 *	* 1062.2 *

16450.0	9.9	202.0	16393.5	-846.7	-644.1	1063.8
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* 16460.0 * 9.8 * 198.0 * 16401.3 * -848.3 * -644.6 * 1065.4 *

16470.0	*	9.8	*	199.0	*	16413.2	*	-849.9	*	-645.1	*	1067.1	*
16480.0	*	9.9	*	199.0	*	16423.0	*	-851.6	*	-645.7	*	1068.7	*

16490.0	9.8	198.0	16432.9	-853.2	-646.2	1070.3
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* 16500.0 * 9.7 * 200.0 * 16442.7 * -854.8 * -646.8 * 1071.9 *

16510.0	9.8	201.6	16452.6	-856.4	1073.5
16520.0	9.7	189.0	16463.4	-857.8	1075.1

16530.0	9.7	199.0	10402.4	-897.4	-048.0	1015.1
16530.0	200.0	16472.3	-859.5	-648.5	1076.8	

* 16540.0 * 9.6 * 199.0 * 16482.2 * -861.1 * -649.1 * 1078.3 *

16550.0	9.5	199.0	16492.0	-862.7	-649.6	1079.9
16560.0	8.4	300.0	16501.8	-864.2	-650.2	1081.5

* 16970.0	*	9.5	*	199.0	*	16511.7	*	-865.8	*	-650.7	*	1083.0
* 16980.0	*	9.5	*	200.0	*	16501.9	*	-864.2	*	-650.2	*	1081.9

* 16580.0 * 9.4 * 198.0 * 16521.6 * -867.3 * -651.2 * 1084.6 *

16590.0	*	9.3	*	196.0	*	19531.5	*	-868.9	*	-651.7	*	1086.1	*
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10000.0	9.2	*	150.0	*	16341.4	*	-870.4	*	-652.2	*	1087.0	*
16910.0	9.2	*	198.0	*	16551.2	*	-871.9	*	-652.7	*	1089.1	*

* 16620.0 * 9.2 * 198.0 * 16561.1 * -873.4 * -653.2 * 1090.6 *

* 16630.0	* 9.2	* 198.0	* 16571.0	* -875.0	* -653.6	* 1092.2
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16650.0	*	9.0	*	200.0	*	10590.7	*	-877.9	*	-654.6	*	1095.1	*
16640.0	*	9.1	*	197.0	*	10580.8	*	-878.5	*	-634.1	*	1093.0	*

* 16660.0 * 8.9 * 202.0 * 14600.6 * -879.4 * -655.2 * 1096.6 *

* 16670.0 * 8.9 * 200.0 * 16610.5 * -880.8 * -655.8 * 1098.1 *

* * *	18680.0	*	8.9	*	198.0	*	18620.4	*	-887.5	*	-656.2	*	1099.8	*	*
* * *	16690.0	*	8.9	*	197.0	*	16610.2	*	-884.8	*	-656.7	*	1101.0	*	*

* 16700.0 * 8.8 * 201.0 * 16640.1 * -885.2 * -657.2 * 1102.5 *

16710.0	*	8.9	*	198.0	*	14650.0	*	-886.7	*	-657.7	*	1104.0	*
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 * 6*G011 * 7*859- * 1*888- * 6*6C991 * 0*861 * 6*8 * 0*07101 *



[The body of the document contains extremely faint, illegible text, likely bleed-through from the reverse side. The text is organized into several paragraphs across the page.]

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*          *          *          *          *          *          *          *
* DEPTH    * DEVIATION * AZIMUTH * TRUE      * CO-ORDINATES *          *
* FEET     * DEGREES  * DEGREES * DEPTH    * + NORTH * + EAST * COURSE *
*          *          *          * FEET     * - SOUTH * - WEST * LENGTH *
*          *          *          *          *          *          *          *
*****
* 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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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.

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 * -10378.0 * -303.3 * 1258.8 * 1248.9 * 1053.1 * 701.7

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 limitations of the study and suggests ways to improve the methodology.

5. The fifth part of the document is a conclusion that summarizes the key findings and reiterates the importance of the research. It also includes a list of references to the sources used in the study.

PAGE 5

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* * * * * DEPTH * * * * * DEVIATION * * * * * AZIMUTH * * * * * VERTICAL * * * * * COURSE * * * * * LENGTH * * * * * EAST * * * * * NORTH * * * * * DEPTH * * * * *
```

* 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 *

* 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	*
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* 18200.0 * 11.0 *

* 194.0 18104.2 *

* -736.7 1365.4 *

-232.0

-1151.4

18114.0

194.0

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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15-00000

[illegible][illegible]

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
