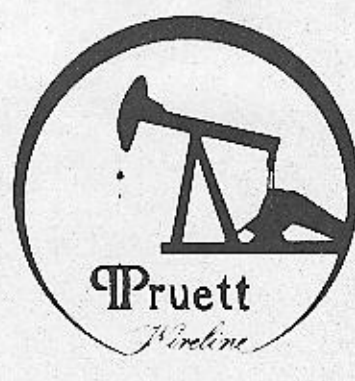


PRUETT WIRELINE SERVICE

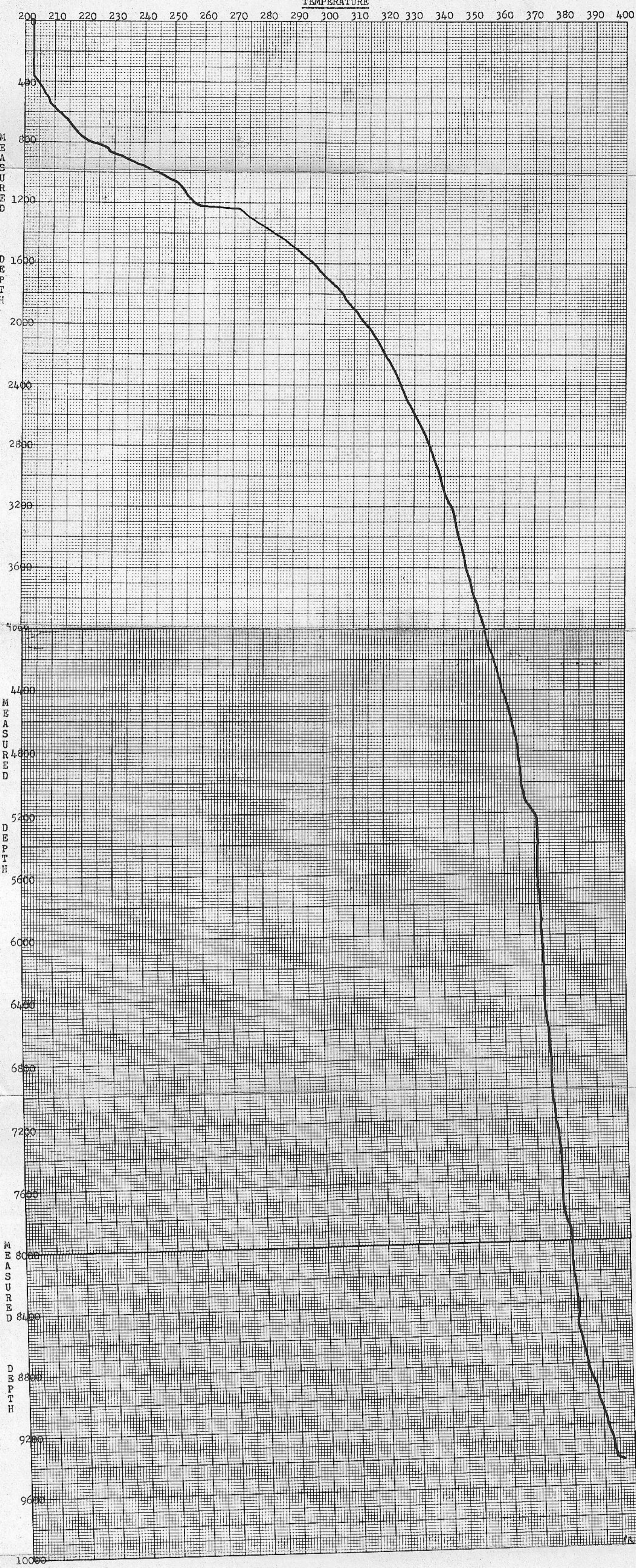
8915 ROSEDALE HWY., BAKERSFIELD, CA 93308
(805) 589-2768



SUB-SURFACE TEMPERATURE SURVEY

23-22N-27E
SW-NW

| | | | | | |
|---------------|--------------------|-----------------|-------------|-----------------|-----------------------------|
| COMPANY | Phillips Petroleum | FIELD | Desert Peak | WELL NAME | B-23-1 |
| TOTAL DEPTH | --- | WELL STATUS | Static | BOMB HUNG @ | none |
| CASING | 13 7/8" @ 2998' | CASING PRESSURE | -0- | TIME ON BOTTOM | 9:25 |
| LINER | none | TUBING PRESSURE | -0- | TIME OFF BOTTOM | 9:35 |
| PERFORATIONS | none | ZONE | none | SHUT IN | none |
| MPP | none | MAX. °F | 396.7° | ON PRODUCTION | none |
| TUBING DETAIL | none | | | PURPOSE | Traverse Temperature Survey |
| | | | | DATE | May 28, 1979 |
| | | | | ELEMENT RANGE | 50-474° |
| | | | | ZERO POINT | 22' |
| | | | | ELEVATION | 9435' |
| | | | | PICKUP | none |



SURVEY DATA

| DEPTH | TEMP. | DEPTH | TEMP. | DEPTH | TEMP. | DEPTH | TEMP. | DEPTH | TEMP. | DEPTH | TEMP. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 203.0 | 1580 | 295.7 | 3160 | 341.2 | 4740 | 364.5 | 6320 | 373.1 | 7900 | 380.1 |
| 20 | 203.2 | 1600 | 296.4 | 3180 | 341.6 | 4760 | 364.5 | 6340 | 373.1 | 7920 | 380.3 |
| 40 | 203.2 | 1620 | 297.7 | 3200 | 342.5 | 4780 | 364.7 | 6360 | 373.1 | 7940 | 380.6 |
| 60 | 203.2 | 1640 | 298.1 | 3220 | 342.9 | 4800 | 364.7 | 6380 | 373.1 | 7960 | 380.8 |
| 80 | 203.2 | 1660 | 298.7 | 3240 | 343.2 | 4820 | 364.9 | 6400 | 373.1 | 7980 | 381.0 |
| 100 | 203.2 | 1680 | 300.0 | 3260 | 343.4 | 4840 | 364.9 | 6420 | 373.1 | 8000 | 381.0 |
| 120 | 203.2 | 1700 | 301.1 | 3280 | 343.6 | 4860 | 365.2 | 6440 | 373.1 | 8020 | 381.0 |
| 140 | 203.2 | 1720 | 302.2 | 3300 | 343.8 | 4880 | 365.2 | 6460 | 373.1 | 8040 | 381.0 |
| 160 | 203.2 | 1740 | 303.5 | 3320 | 344.0 | 4900 | 365.4 | 6480 | 373.3 | 8060 | 381.2 |
| 180 | 203.2 | 1760 | 304.5 | 3340 | 344.3 | 4920 | 365.6 | 6500 | 373.3 | 8080 | 381.2 |
| 200 | 203.2 | 1780 | 305.6 | 3360 | 344.5 | 4940 | 365.6 | 6520 | 373.5 | 8100 | 381.2 |
| 220 | 203.2 | 1800 | 306.3 | 3380 | 344.7 | 4960 | 365.6 | 6540 | 373.5 | 8120 | 381.2 |
| 240 | 203.2 | 1820 | 306.9 | 3400 | 344.9 | 4980 | 365.8 | 6560 | 374.0 | 8140 | 381.2 |
| 260 | 203.2 | 1840 | 307.3 | 3420 | 345.4 | 5000 | 365.8 | 6580 | 374.0 | 8160 | 381.2 |
| 280 | 203.2 | 1860 | 308.2 | 3440 | 345.6 | 5020 | 366.0 | 6600 | 374.2 | 8180 | 381.4 |
| 300 | 203.2 | 1880 | 309.3 | 3460 | 345.8 | 5040 | 366.0 | 6620 | 374.2 | 8200 | 381.4 |
| 320 | 203.2 | 1900 | 309.9 | 3480 | 346.0 | 5060 | 366.5 | 6640 | 374.4 | 8220 | 381.7 |
| 340 | 203.2 | 1920 | 311.0 | 3500 | 346.2 | 5080 | 366.7 | 6660 | 374.4 | 8240 | 381.7 |
| 360 | 203.2 | 1940 | 311.6 | 3520 | 346.5 | 5100 | 366.9 | 6680 | 374.4 | 8260 | 382.1 |
| 380 | 203.9 | 1960 | 312.3 | 3540 | 346.7 | 5120 | 367.4 | 6700 | 374.6 | 8280 | 382.1 |
| 400 | 204.7 | 1980 | 313.1 | 3560 | 346.9 | 5140 | 368.0 | 6720 | 374.6 | 8300 | 382.3 |
| 420 | 205.3 | 2000 | 314.0 | 3580 | 347.1 | 5160 | 368.9 | 6740 | 374.8 | 8320 | 382.3 |
| 440 | 206.2 | 2020 | 315.1 | 3600 | 347.3 | 5180 | 369.6 | 6760 | 374.8 | 8340 | 382.3 |
| 460 | 206.8 | 2040 | 315.7 | 3620 | 347.8 | 5200 | 370.2 | 6780 | 375.1 | 8360 | 382.3 |
| 480 | 207.1 | 2060 | 316.4 | 3640 | 348.0 | 5220 | 370.7 | 6800 | 375.1 | 8380 | 382.6 |
| 500 | 208.2 | 2080 | 316.8 | 3660 | 348.4 | 5240 | 370.9 | 6820 | 375.1 | 8400 | 382.6 |
| 520 | 208.3 | 2100 | 317.6 | 3680 | 348.7 | 5260 | 370.9 | 6840 | 375.1 | 8420 | 382.8 |
| 540 | 208.7 | 2120 | 318.3 | 3700 | 348.9 | 5280 | 370.9 | 6860 | 375.1 | 8440 | 382.8 |
| 560 | 209.7 | 2140 | 318.7 | 3720 | 349.1 | 5300 | 371.1 | 6880 | 375.1 | 8460 | 383.0 |
| 580 | 210.8 | 2160 | 319.4 | 3740 | 349.5 | 5320 | 371.1 | 6900 | 375.1 | 8480 | 383.0 |
| 600 | 211.6 | 2180 | 319.8 | 3760 | 349.8 | 5340 | 371.1 | 6920 | 375.1 | 8500 | 382.6 |
| 620 | 212.8 | 2200 | 320.2 | 3780 | 350.2 | 5360 | 371.1 | 6940 | 375.1 | 8520 | 382.6 |
| 640 | 213.7 | 2220 | 320.9 | 3800 | 350.4 | 5380 | 371.1 | 6960 | 375.1 | 8540 | 382.6 |
| 660 | 214.9 | 2240 | 321.5 | 3820 | 350.9 | 5400 | 371.1 | 6980 | 375.1 | 8560 | 382.8 |
| 680 | 215.9 | 2260 | 322.2 | 3840 | 351.1 | 5420 | 370.9 | 7000 | 375.1 | 8580 | 383.0 |
| 700 | 216.7 | 2280 | 322.8 | 3860 | 351.3 | 5440 | 370.9 | 7020 | 375.5 | 8600 | 383.2 |
| 720 | 217.8 | 2300 | 323.2 | 3880 | 351.5 | 5460 | 370.9 | 7040 | 375.5 | 8620 | 383.5 |
| 740 | 218.4 | 2320 | 323.7 | 3900 | 352.0 | 5480 | 370.9 | 7060 | 375.5 | 8640 | 383.7 |
| 760 | 219.2 | 2340 | 324.3 | 3920 | 352.4 | 5500 | 370.9 | 7080 | 375.5 | 8660 | 383.9 |
| 780 | 220.6 | 2360 | 324.7 | 3940 | 352.6 | 5520 | 370.9 | 7100 | 375.9 | 8680 | 384.1 |
| 800 | 222.5 | 2380 | 325.2 | 3960 | 353.1 | 5540 | 370.9 | 7120 | 375.9 | 8700 | 384.4 |
| 820 | 226.2 | 2400 | 325.6 | 3980 | 353.3 | 5560 | 370.9 | 7140 | 375.9 | 8720 | 384.6 |
| 840 | 228.2 | 2420 | 326.0 | 4000 | 353.5 | 5580 | 371.1 | 7160 | 376.2 | 8740 | 384.8 |
| 860 | 228.6 | 2440 | 326.5 | 4020 | 353.9 | 5600 | 371.1 | 7180 | 376.2 | 8760 | 385.0 |
| 880 | 231.1 | 2460 | 326.9 | 4040 | 354.2 | 5620 | 371.1 | 7200 | 376.2 | 8780 | 385.3 |
| 900 | 232.9 | 2480 | 327.3 | 4060 | 354.6 | 5640 | 371.1 | 7220 | 376.4 | 8800 | 385.5 |
| 920 | 235.4 | 2500 | 327.8 | 4080 | 354.8 | 5660 | 371.1 | 7240 | 376.8 | 8820 | 385.7 |
| 940 | 237.9 | 2520 | 328.4 | 4100 | 355.0 | 5680 | 371.3 | 7260 | 377.0 | 8840 | 385.9 |
| 960 | 240.5 | 2540 | 328.8 | 4120 | 355.3 | 5700 | 371.3 | 7280 | 377.3 | 8860 | 386.2 |
| 980 | 242.8 | 2560 | 329.5 | 4140 | 355.7 | 5720 | 371.5 | 7300 | 377.5 | 8880 | 386.6 |
| 1000 | 245.0 | 2580 | 329.9 | 4160 | 356.4 | 5740 | 371.8 | 7320 | 377.5 | 8900 | 387.1 |
| 1020 | 246.9 | 2600 | 330.5 | 4180 | 356.6 | 5760 | 371.8 | 7340 | 377.5 | 8920 | 387.5 |
| 1040 | 248.5 | 2620 | 331.0 | 4200 | 356.8 | 5780 | 371.8 | 7360 | 377.7 | 8940 | 388.0 |
| 1060 | 250.4 | 2640 | 331.6 | 4220 | 357.0 | 5800 | 372.0 | 7380 | 377.7 | 8960 | 388.2 |
| 1080 | 251.8 | 2660 | 332.1 | 4240 | 357.5 | 5820 | 372.0 | 7400 | 377.9 | 8980 | 388.4 |
| 1100 | 252.4 | 2680 | 332.5 | 4260 | 357.7 | 5840 | 372.2 | 7420 | 377.9 | 9000 | 388.6 |
| 1120 | 253.3 | 2700 | 333.1 | 4280 | 358.1 | 5860 | 372.2 | 7440 | 377.9 | 9020 | 388.9 |
| 1140 | 253.9 | 2720 | 333.6 | 4300 | 358.3 | 5880 | 372.2 | 7460 | 377.9 | 9040 | 389.3 |
| 1160 | 254.7 | 2740 | 334.0 | 4320 | 358.8 | 5900 | 372.4 | 7480 | 377.9 | 9060 | 389.5 |
| 1180 | 256.0 | 2760 | 334.4 | 4340 | 359.0 | 5920 | 372.4 | 7500 | 378.1 | 9080 | 390.0 |
| 1200 | 256.8 | 2780 | 334.8 | 4360 | 359.2 | 5940 | 372.4 | 7520 | 378.1 | 9100 | 390.4 |
| 1220 | 259.3 | 2800 | 335.1 | 4380 | 359.4 | 5960 | 372.4 | 7540 | 378.1 | 9120 | 390.9 |
| 1240 | 271.7 | 2820 | 335.5 | 4400 | 359.7 | 5980 | 372.4 | 7560 | 378.1 | 9140 | 391.1 |
| 1260 | 272.8 | 2840 | 335.9 | 4420 | 360.1 | 6000 | 372.4 | 7580 | 378.1 | 9160 | 391.1 |
| 1280 | 274.0 | 2860 | 336.4 | 4440 | 360.3 | 6020 | 372.6 | 7600 | 378.1 | 9180 | 391.3 |
| 1300 | 275.1 | 2880 | 336.6 | 4460 | 360.8 | 6040 | 372.6 | 7620 | 378.1 | 9200 | 391.6 |
| 1320 | 276.8 | 2900 | 337.0 | 4480 | 361.0 | 6060 | 372.6 | 7640 | 378.1 | 9220 | 391.8 |
| 1340 | 278.5 | 2920 | 337.4 | 4500 | 361.2 | 6080 | 372.6 | 7660 | 378.1 | 9240 | 392.2 |
| 1360 | 280.3 | 2940 | 337.9 | 4520 | 361.6 | 6100 | 372.9 | 7680 | 378.1 | 9260 | 392.7 |
| 1380 | 282.0 | 2960 | 338.1 | 4540 | 361.9 | 6120 | 372.9 | 7700 | 378.1 | 9280 | 392.9 |
| 1400 | 283.1 | 2980 | 338.5 | 4560 | 362.1 | 6140 | 372.9 | 7720 | 378.1 | 9300 | 393.1 |
| 1420 | 285.4 | 3000 | 338.8 | 4580 | 362.3 | 6160 | 372.9 | 7740 | 378.1 | 9320 | 393.4 |
| 1440 | 286.9 | 3020 | 339.0 | 4600 | 362.5 | 6180 | 372.9 | 7760 | 378.1 | 9340 | 393.6 |
| 1460 | 288.1 | 3040 | 339.4 | 4620 | 363.0 | 6200 | 372.9 | 7780 | 378.4 | 9360 | 393.8 |
| 1480 | 289.4 | 3060 | 339.6 | 4640 | 363.2 | 6220 | 372.9 | 7800 | 378.6 | 9380 | 394.3 |
| 1500 | 290.4 | 3080 | 339.9 | 4660 | 363.4 | 6240 | 372.9 | 7820 | 378.8 | 9400 | 394.5 |
| 1520 | 291.7 | 3100 | 340.1 | 4680 | 363.6 | 6260 | 373.1 | 7840 | 379.0 | 9420 | 394.7 |
| 1540 | 293.2 | 3120 | 340.3 | 4700 | 364.1 | 6280 | 373.1 | 7860 | 379.2 | 9435 | 396.7 |
| 1560 | 294.4 | 3140 | 340.7 | 4720 | 364.3 | 6300 | 373.1 | 7880 | 379.7 | | |

Instrument Serialized No. 31, minute 2-79.
Survey traversed 20' per minute