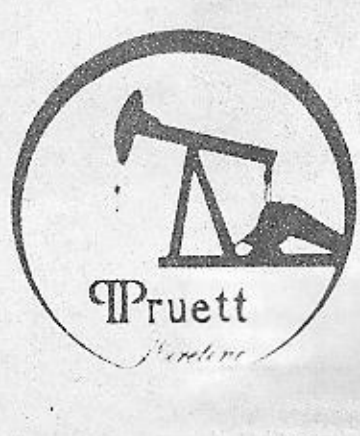


# PRUETT WIRELINE SERVICE



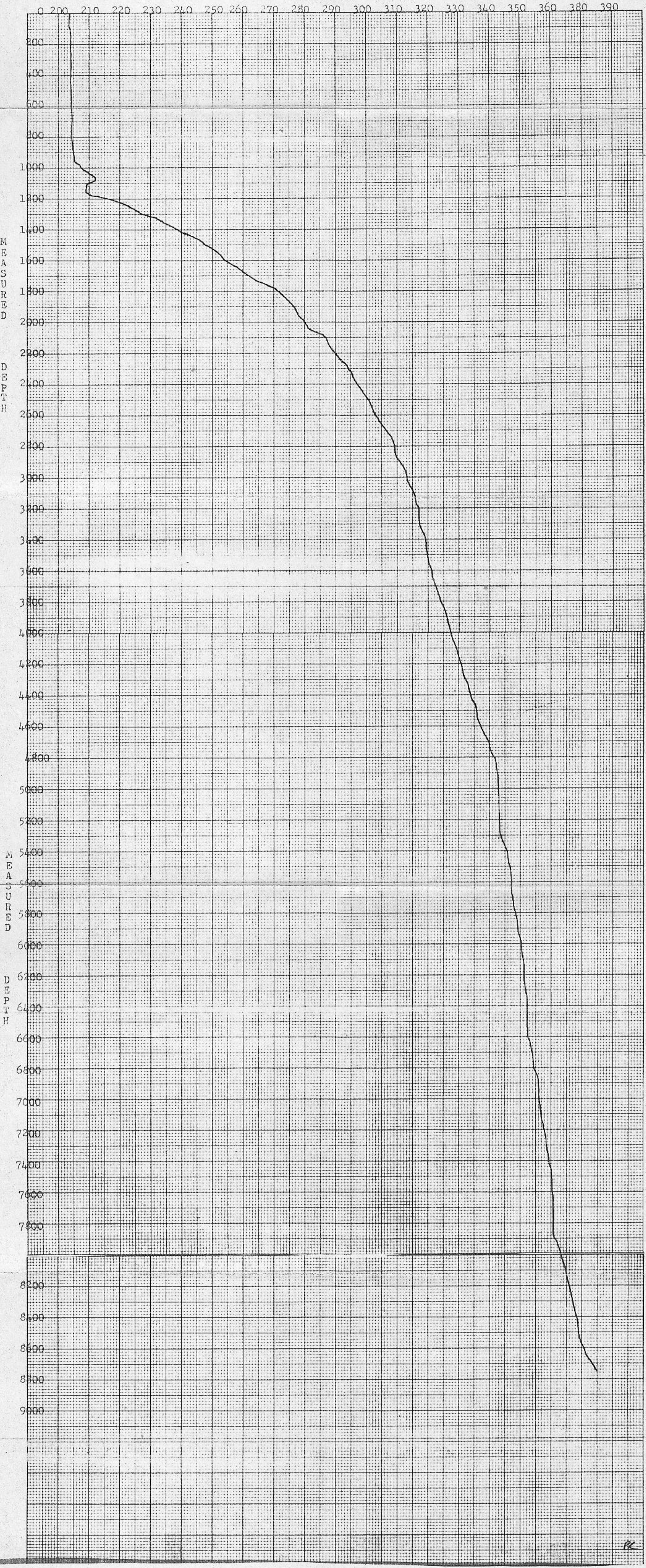
## SUB-SURFACE TEMPERATURE SURVEY

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

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 | ---         | TIME ON BOTTOM  | 8:58pm                      |
| LINEAR        | ---                | TUBING PRESSURE | ---         | TIME OFF BOTTOM | 9:10pm                      |
| PERFORATIONS  | ---                | ZONE            | none        | SHUT IN         | none                        |
| MPP           | ---                | MAX TF          | 380.1       | ON PRODUCTION   | none                        |
| TUBING DETAIL | ---                |                 |             | ON PRODUCTION   | none                        |
|               |                    |                 |             | PICKUP          | none made                   |
|               |                    |                 |             | PURPOSE         | Traverse Temperature Survey |

### TEMPERATURE



### SURVEY DATA

| DEPTH | TEMP. | DEPTH | TEMP. | DEPTH | TEMP. | DEPTH | TEMP. | DEPTH | TEMP.    |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| 0     | 203.5 | 1760  | 268.2 | 3520  | 320.0 | 5280  | 343.6 | 7040  | 356.6    |
| 20    | 203.6 | 1780  | 270.5 | 3540  | 320.0 | 5300  | 343.8 | 7060  | 356.6    |
| 40    | 203.6 | 1800  | 271.5 | 3560  | 320.2 | 5320  | 344.0 | 7080  | 356.8    |
| 60    | 203.6 | 1820  | 272.4 | 3580  | 320.9 | 5340  | 344.5 | 7100  | 356.8    |
| 80    | 203.6 | 1840  | 273.8 | 3600  | 321.3 | 5360  | 344.7 | 7120  | 356.8    |
| 100   | 203.9 | 1860  | 274.7 | 3620  | 321.3 | 5380  | 345.4 | 7140  | 357.0    |
| 120   | 203.9 | 1880  | 275.7 | 3640  | 321.3 | 5400  | 345.8 | 7160  | 357.5    |
| 140   | 203.9 | 1900  | 276.6 | 3660  | 321.7 | 5420  | 345.8 | 7180  | 357.7    |
| 160   | 203.9 | 1920  | 277.6 | 3680  | 322.2 | 5440  | 346.0 | 7200  | 357.9    |
| 180   | 203.9 | 1940  | 277.8 | 3700  | 322.6 | 5460  | 346.2 | 7220  | 358.1    |
| 200   | 204.1 | 1960  | 278.2 | 3720  | 322.8 | 5480  | 346.5 | 7240  | 358.2    |
| 220   | 204.1 | 1980  | 279.7 | 3740  | 323.2 | 5500  | 346.7 | 7260  | 358.6    |
| 240   | 204.1 | 2000  | 280.3 | 3760  | 323.7 | 5520  | 346.7 | 7280  | 358.6    |
| 260   | 204.1 | 2020  | 280.8 | 3780  | 324.1 | 5540  | 346.9 | 7300  | 358.6    |
| 280   | 204.1 | 2040  | 281.4 | 3800  | 323.9 | 5560  | 346.9 | 7320  | 358.8    |
| 300   | 204.1 | 2060  | 283.5 | 3820  | 324.5 | 5580  | 346.9 | 7340  | 359.2    |
| 320   | 204.1 | 2080  | 286.2 | 3840  | 325.2 | 5600  | 347.1 | 7360  | 359.2    |
| 340   | 204.1 | 2100  | 287.1 | 3860  | 325.6 | 5620  | 347.1 | 7380  | 359.4    |
| 360   | 204.1 | 2120  | 287.5 | 3880  | 326.0 | 5640  | 347.1 | 7400  | 359.4    |
| 380   | 204.1 | 2140  | 288.7 | 3900  | 326.2 | 5660  | 347.3 | 7420  | 359.7    |
| 400   | 204.1 | 2160  | 288.5 | 3920  | 326.5 | 5680  | 347.6 | 7440  | 359.9    |
| 420   | 204.1 | 2180  | 289.4 | 3940  | 326.7 | 5700  | 347.6 | 7460  | 360.1    |
| 440   | 204.1 | 2200  | 290.2 | 3960  | 326.9 | 5720  | 347.8 | 7480  | 360.1    |
| 460   | 204.1 | 2220  | 291.1 | 3980  | 327.1 | 5740  | 347.8 | 7500  | 360.1    |
| 480   | 204.1 | 2240  | 291.7 | 4000  | 327.5 | 5760  | 348.0 | 7520  | 360.3    |
| 500   | 204.3 | 2260  | 293.2 | 4020  | 327.8 | 5780  | 348.2 | 7540  | 360.3    |
| 520   | 204.3 | 2280  | 294.4 | 4040  | 328.0 | 5800  | 348.7 | 7560  | 360.3    |
| 540   | 204.3 | 2300  | 294.4 | 4060  | 328.6 | 5820  | 348.7 | 7580  | 360.5    |
| 560   | 204.3 | 2320  | 295.5 | 4080  | 329.0 | 5840  | 348.9 | 7600  | 360.5    |
| 580   | 204.3 | 2340  | 295.5 | 4100  | 329.5 | 5860  | 349.1 | 7620  | 360.5    |
| 600   | 204.3 | 2360  | 295.9 | 4120  | 329.7 | 5880  | 349.3 | 7640  | 360.5    |
| 620   | 204.3 | 2380  | 296.6 | 4140  | 329.9 | 5900  | 349.5 | 7660  | 360.5    |
| 640   | 204.3 | 2400  | 297.4 | 4160  | 330.3 | 5920  | 349.5 | 7680  | 360.5    |
| 660   | 204.3 | 2420  | 298.1 | 4180  | 330.5 | 5940  | 349.8 | 7700  | 360.5    |
| 680   | 204.3 | 2440  | 298.7 | 4200  | 331.0 | 5960  | 350.0 | 7720  | 360.8    |
| 700   | 204.3 | 2460  | 299.4 | 4220  | 331.2 | 5980  | 350.2 | 7740  | 360.8    |
| 720   | 204.3 | 2480  | 299.4 | 4240  | 331.4 | 6000  | 350.4 | 7760  | 360.8    |
| 740   | 204.3 | 2500  | 300.0 | 4260  | 331.6 | 6020  | 350.4 | 7780  | 360.8    |
| 760   | 204.3 | 2520  | 301.3 | 4280  | 331.8 | 6040  | 350.6 | 7800  | 360.8    |
| 780   | 204.3 | 2540  | 301.7 | 4300  | 332.5 | 6060  | 350.6 | 7820  | 360.8    |
| 800   | 204.5 | 2560  | 302.0 | 4320  | 332.9 | 6080  | 350.9 | 7840  | 360.8    |
| 820   | 204.5 | 2580  | 302.6 | 4340  | 333.1 | 6100  | 351.1 | 7860  | 361.0    |
| 840   | 204.7 | 2600  | 303.0 | 4360  | 333.3 | 6120  | 351.1 | 7880  | 361.2    |
| 860   | 204.7 | 2620  | 304.1 | 4380  | 333.8 | 6140  | 351.3 | 7900  | 361.4    |
| 880   | 204.9 | 2640  | 304.3 | 4400  | 334.0 | 6160  | 351.3 | 7920  | 361.9    |
| 900   | 204.9 | 2660  | 305.0 | 4420  | 334.4 | 6180  | 351.3 | 7940  | 362.1    |
| 920   | 205.1 | 2680  | 306.0 | 4440  | 334.8 | 6200  | 351.5 | 7960  | 362.5    |
| 940   | 205.3 | 2700  | 306.7 | 4460  | 335.5 | 6220  | 351.5 | 7980  | 363.0    |
| 960   | 205.3 | 2720  | 307.3 | 4480  | 335.7 | 6240  | 351.5 | 8000  | 363.4    |
| 980   | 207.2 | 2740  | 308.4 | 4500  | 335.9 | 6260  | 351.7 | 8020  | 363.6    |
| 1000  | 207.6 | 2760  | 308.6 | 4520  | 335.9 | 6280  | 351.7 | 8040  | 364.1    |
| 1020  | 208.9 | 2780  | 308.8 | 4540  | 336.1 | 6300  | 352.0 | 8060  | 364.3    |
| 1040  | 210.4 | 2800  | 309.3 | 4560  | 336.4 | 6320  | 352.0 | 8080  | 364.7    |
| 1060  | 212.2 | 2820  | 309.3 | 4580  | 336.8 | 6340  | 352.2 | 8100  | 364.9    |
| 1080  | 212.2 | 2840  | 309.5 | 4600  | 337.2 | 6360  | 352.2 | 8120  | 365.2    |
| 1100  | 209.5 | 2860  | 309.7 | 4620  | 337.7 | 6380  | 352.2 | 8140  | 365.2    |
| 1120  | 209.1 | 2880  | 310.3 | 4640  | 338.1 | 6400  | 352.2 | 8160  | 365.6    |
| 1140  | 209.1 | 2900  | 311.2 | 4660  | 338.8 | 6420  | 352.4 | 8180  | 365.8    |
| 1160  | 209.1 | 2920  | 311.8 | 4680  | 339.2 | 6440  | 352.4 | 8200  | 366.0    |
| 1180  | 210.8 | 2940  | 312.3 | 4700  | 339.9 | 6460  | 352.4 | 8220  | 366.3    |
| 1200  | 215.9 | 2960  | 312.7 | 4720  | 340.1 | 6480  | 352.4 | 8240  | 366.5    |
| 1220  | 220.0 | 2980  | 312.9 | 4740  | 340.3 | 6500  | 352.4 | 8260  | 366.7    |
| 1240  | 222.7 | 3000  | 313.1 | 4760  | 340.5 | 6520  | 352.4 | 8280  | 366.9    |
| 1260  | 223.7 | 3020  | 313.3 | 4780  | 341.2 | 6540  | 352.6 | 8300  | 367.1    |
| 1280  | 226.4 | 3040  | 313.4 | 4800  | 341.8 | 6560  | 352.6 | 8320  | 367.4    |
| 1300  | 227.5 | 3060  | 313.4 | 4820  | 341.8 | 6580  | 352.6 | 8340  | 367.4    |
| 1320  | 227.5 | 3080  | 314.4 | 4840  | 342.1 | 6600  | 352.6 | 8360  | 367.4    |
| 1340  | 235.2 | 3100  | 314.4 | 4860  | 342.3 | 6620  | 353.1 | 8380  | 368.2    |
| 1360  | 237.6 | 3120  | 315.2 | 4880  | 342.5 | 6640  | 353.1 | 8400  | 368.5    |
| 1380  | 238.9 | 3140  | 315.7 | 4900  | 342.7 | 6660  | 353.5 | 8420  | 368.7    |
| 1400  | 241.5 | 3160  | 315.9 | 4920  | 342.7 | 6680  | 353.7 | 8440  | 369.1    |
| 1420  | 243.6 | 3180  | 316.6 | 4940  | 342.7 | 6700  | 353.9 | 8460  | 369.1    |
| 1440  | 245.4 | 3200  | 317.2 | 4960  | 342.7 | 6720  | 354.2 | 8480  | 369.1    |
| 1460  | 246.9 | 3220  | 317.0 | 4980  | 342.7 | 6740  | 354.4 | 8500  | 369.1    |
| 1480  | 247.7 | 3240  | 317.0 | 5000  | 342.9 | 6760  | 354.4 | 8520  | 369.3    |
| 1500  | 249.9 | 3260  | 317.2 | 5020  | 342.9 | 6780  | 354.6 | 8540  | 369.6    |
| 1520  | 251.4 | 3280  | 317.2 | 5040  | 342.9 | 6800  | 354.6 | 8560  | 369.8    |
| 1540  | 251.4 | 3300  | 317.5 | 5060  | 342.9 | 6820  | 355.0 | 8580  | 370.2    |
| 1560  | 253.3 | 3320  | 317.6 | 5080  | 343.2 | 6840  | 355.5 | 8600  | 370.7    |
| 1580  | 254.1 | 3340  | 317.9 | 5100  | 343.2 | 6860  | 355.7 | 8620  | 370.9    |
| 1600  | 256.2 | 3360  | 318.5 | 5120  | 343.2 | 6880  | 355.7 | 8640  | 371.3    |
| 1620  | 258.1 | 3380  | 318.9 | 5140  | 343.4 | 6900  | 355.9 | 8660  | 372.0    |
| 1640  | 259.3 | 3400  | 319.6 | 5160  | 343.4 | 6920  | 355.9 | 8680  | 373.1    |
| 1660  | 260.6 | 3420  | 319.6 | 5180  | 343.4 | 6940  | 356.1 | 8700  | 373.5    |
| 1680  | 261.9 | 3440  | 319.6 | 5200  | 343.7 | 6960  | 356.1 | 8720  | 374.4    |
| 1700  | 263.5 | 3460  | 319.6 | 5220  | 343.6 | 6980  | 356.1 | 8740  | 374.6    |
| 1720  | 263.5 | 3480  | 319.8 | 5240  | 343.6 | 7000  | 356.1 | 8750  | 375.3 ** |
| 1740  | 265.2 | 3500  | 320.0 | 5260  | 343.6 | 7020  | 356.4 |       |          |

Survey traversed 20' per minute.  
 \*\* 12 minute stop made on bottom - Beginning 375.3°  
 Ending 380.1°  
 Instrument Serial No. 31, calibrated 2-79.

C Skenfield  
G Doolan