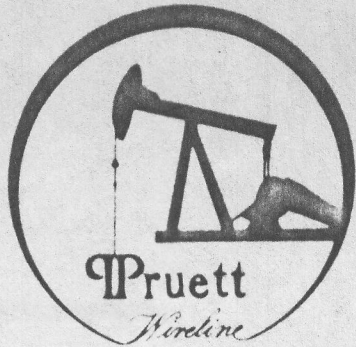


PRUETT WIRELINE SERVICE

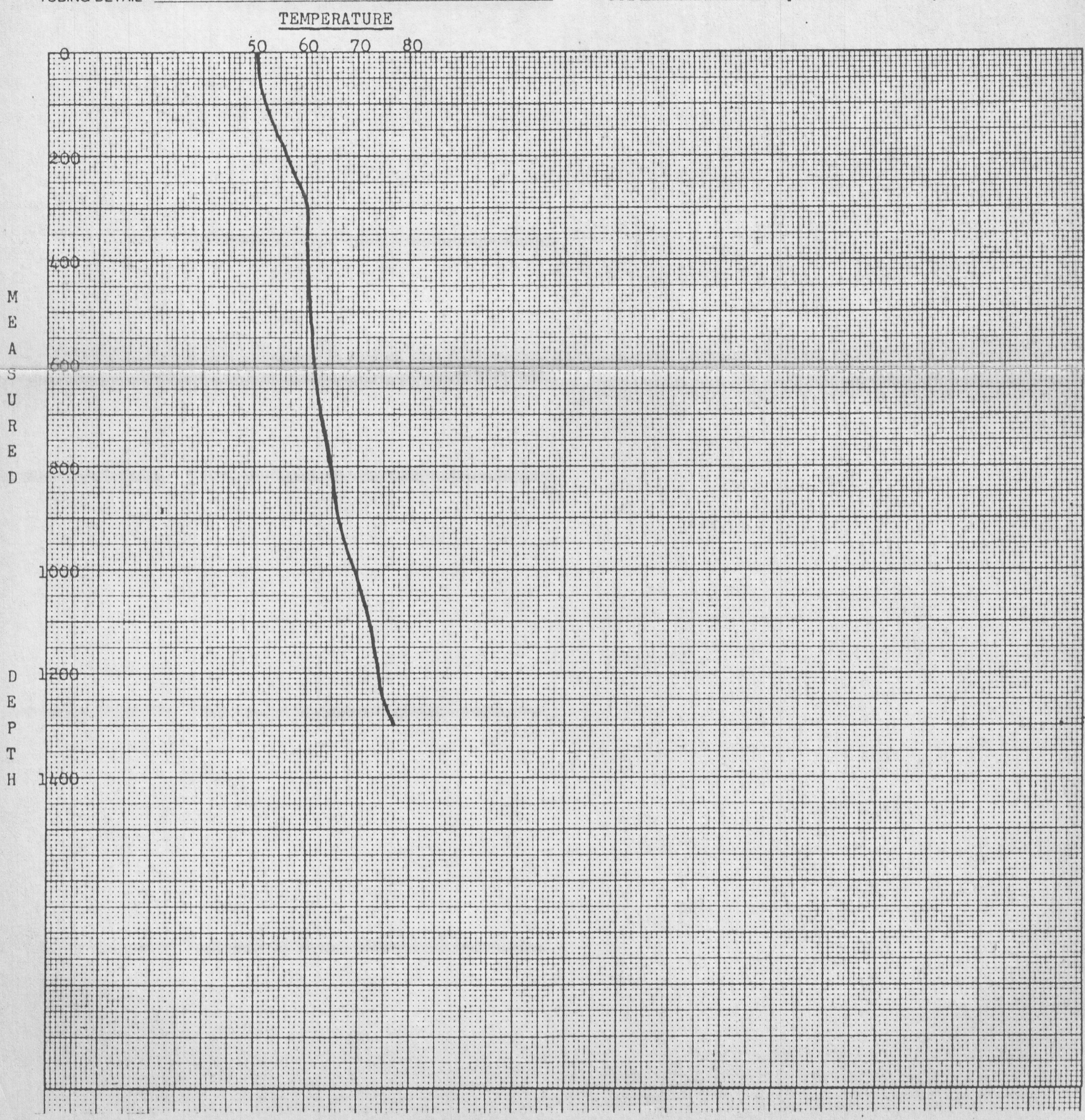
8915 ROSEDALE HWY., BAKERSFIELD, CA 93308
(805) 589-2768



SUB-SURFACE TEMPERATURE SURVEY

Run #2

COMPANY Gulf Energy FIELD Steamboat Sprs WELL NAME St 11
 TOTAL DEPTH 1300' WELL STATUS Static BOMB HUNG @ none DATE December 8, 1980
 CASING --- CASING PRESSURE --- TIME ON BOTTOM 5:15 ELEMENT RANGE 45-278°
 LINER --- TUBING PRESSURE --- TIME OFF BOTTOM 5:20 ZERO POINT 5.2'
 PERFORATIONS --- ZONE --- SHUT IN --- ELEVATION ---
 MPP --- MAX. °F 77.04° ON PRODUCTION --- PICKUP 1300'
 TUBING DETAIL ----- PURPOSE Traverse Temperature Survey



SURVEY DATA

DEPTH	TEMPERATURE	DEPTH	TEMPERATURE	DEPTH	TEMPERATURE	DEPTH	TEMPERATURE
0	50.57	320	60.23	640	62.09	960	68.39
20	50.57	340	60.23	660	62.46	1000	69.77
40	50.94	360	60.23	680	62.83	1020	70.12
60	51.31	380	60.60	700	63.20	1040	70.81
80	51.69	400	60.60	720	63.55	1060	71.16
100	52.43	420	60.60	740	63.89	1080	71.85
120	53.17	440	60.60	760	64.24	1100	72.54
140	53.91	460	60.60	780	64.58	1120	72.89
160	54.66	480	60.97	800	64.93	1140	73.23
180	55.77	500	60.97	820	65.28	1160	73.58
200	56.14	520	60.97	840	65.62	1180	73.93
220	57.26	540	61.34	860	65.97	1200	74.27
240	58.37	560	61.34	880	66.31	1220	74.62
260	59.11	580	61.71	900	66.66	1240	75.31
280	59.86	600	61.71	920	67.01	1260	75.66
300	60.23	620	62.09	940	67.70	1280	76.35
				960	68.39	1300	77.04

Survey traversed 20' per minute.

C Skenfield