



AGNEW AND SWEET

3914 GILMORE AVENUE
 BAKERSFIELD, CALIFORNIA 93308
 PHONE (805) 327-2267

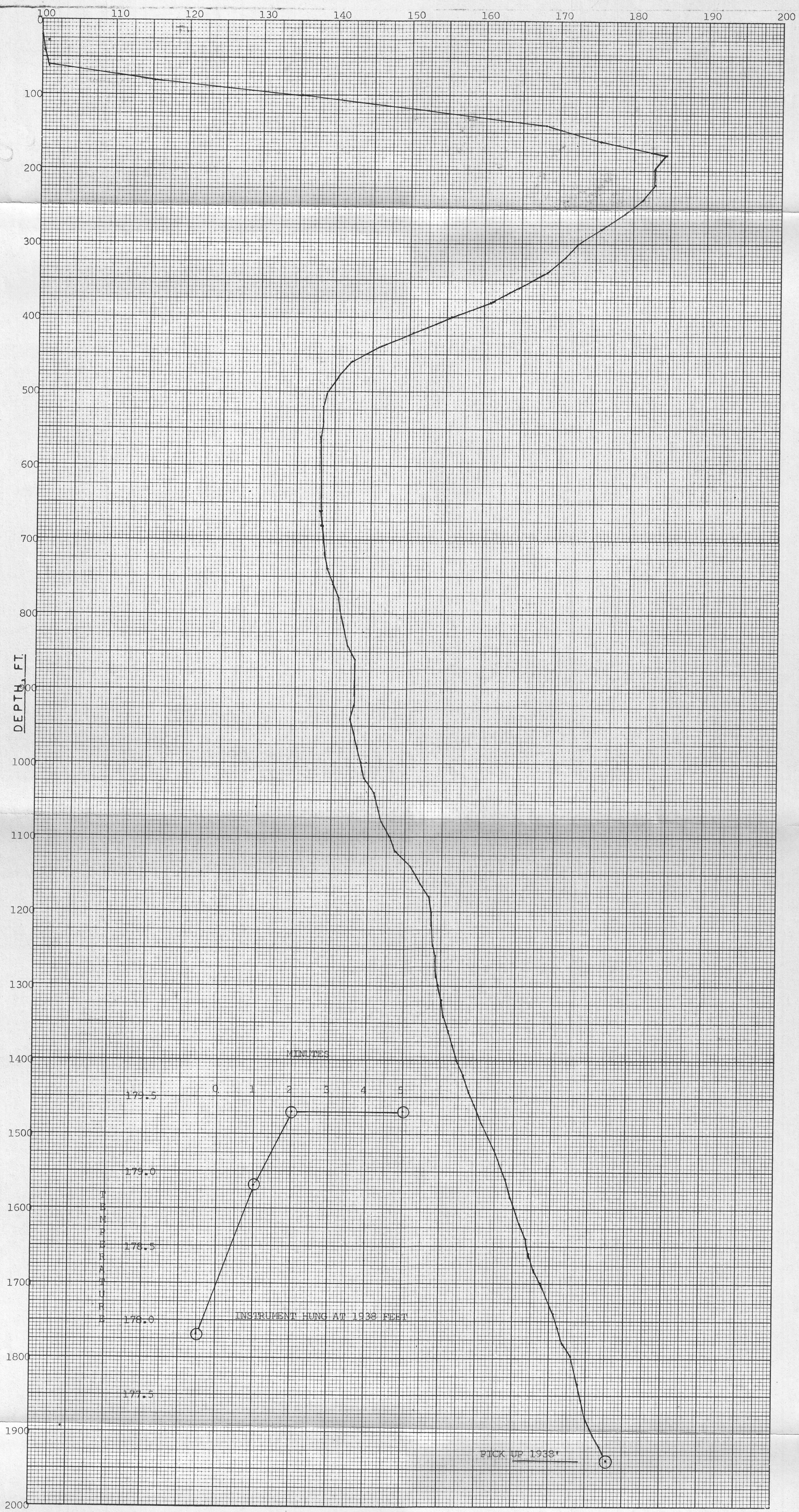
CHURCH AND AIRPORT ROAD
 RIO VISTA, CALIFORNIA 94571
 PHONE (707) 374-2197

24 HOUR
 SERVICE

SUBSURFACE TEMPERATURE SURVEY

OWNER PHILLIPS PETROLEUM COMPANY FIELD STEAM BOAT WELL NAME # 1

WELL DATA		SURVEY CONDITIONS	
ZERO POINT <u>Ground</u>	DEPTH _____	DATE <u>May 16, 1977</u>	
ELEVATION _____	ZONE _____	PURPOSE <u>STATIC TEMPERATURE PROFILE SURVEY</u>	
CASING _____		REMARKS <u>TRAVERSE 20'/MINUTE</u>	
			<u>INSTRUMENT HUNG 5 MINUTES AT 1938 FEET</u>
LINER DESCRIPTION _____		INSTRUMENT <u>100 - 558 °F, SERIAL NUMBER 10136</u>	
		MAX. TEMPERATURE <u>184.5 °F, AT 180'</u>	
TUBING DETAIL <u>2-7/8" to 1966'</u>		SHUT IN _____	STABILIZATION PERIOD _____
		GROSS FLUID RATE, BBL/D _____	PRESSURES, PSIG
		NET OIL RATE, BBL/D _____	OBSERVED CORRECTED
		FORMATION GAS, MCF/D _____	CASING _____
		GOR, CFT/BBL _____	TUBING _____
Time on bottom <u>12:13 pm</u>		CIRCULATED GAS, MCF/D _____	
Time off bottom <u>12:18 pm</u>		OIL DRY GRAVITY, °API _____	BY <u>MONSON & HONEYCUTT</u>



SUB-SURFACE TEMPERATURE DATA

DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	
0		360	164.7	720	138.8	1080	146.8	1440	158.8	1800	173.0	
20	100.0	380	160.8	740	139.3	1100	148.0	1460	159.8	1820	173.5	
40	100.3	400	155.6	760	140.0	1120	148.8	1480	160.5	1840	174.0	
60	100.8	420	150.5	780	140.8	1140	150.7	1500	161.5	1860	174.7	
80	115.2	440	145.8	800	141.0	1160	152.0	1520	162.5	1880	175.0	
100	135.3	460	142.3	820	141.5	1180	153.4	1540	163.2	1900	175.7	
120	152.2	480	140.3	840	142.0	1200	153.7	1560	164.0	1920	177.0	
140	168.1	500	139.0	860	143.0	1220	153.7	1580	164.5	1938	177.9	
160	175.5	520	138.5	880	143.0	1240	153.9	1600	165.2			
180	184.5	540	138.5	900	143.0	1260	154.2	1620	165.7			
200	182.8	560	138.5	920	143.0	1280	154.2	1640	166.7		INSTR. HUNG @ 1938'	
220	182.8	580	138.3	940	142.5	1300	154.7	1660	167.2		MIN. TEMP.	
240	181.1	600	138.3	960	143.0	1320	155.1	1680	167.9		0	177.9
260	178.9	620	138.3	980	143.5	1340	155.4	1700	168.9		1 min.	178.9
280	175.7	640	138.3	1000	144.0	1360	156.1	1720	169.6		2	179.4
300	172.5	660	138.3	1020	144.5	1380	156.6	1740	170.6		3	179.4
320	170.8	680	138.5	1040	145.8	1400	157.1	1760	171.1		4	179.4
340	168.4	700	138.5	1060	146.3	1420	158.1	1780	171.8		5	179.4