

# AGNEW AND SWEET

## WIRELINE SERVICE

PHONE (805) 327-2267

3914 GILMORE AVENUE

BAKERSFIELD, CALIFORNIA 93308

## SUBSURFACE TEMPERATURE SURVEY

OWNER PHILLIPS PETROLEUM COMPANY FIELD HUMBOLT WELL NAME CAMPBELL E - 1

### WELL DATA

ZERO POINT Mat + 24' DEPTH 1849'  
ELEVATION \_\_\_\_\_ ZONE \_\_\_\_\_  
CASING 9-5/8" @ 1777'

LINER DESCRIPTION \_\_\_\_\_

TUBING DETAIL No tubing in hole

### SURVEY CONDITIONS

DATE February 4, 1978  
PURPOSE STATIC TEMPERATURE TRAVERSE SURVEY  
REMARKS Open hole from 1777' to pick-up  
Traverse 20' per minute

3 HOUR  15 TURN Casing  TUBING  ANNULUS

INSTRUMENT 123 - 698 °F, SERIAL NUMBER 10030

MAX. TEMPERATURE 356.2 °F, AT 1860'

SHUT IN \_\_\_\_\_ STABILIZATION PERIOD \_\_\_\_\_

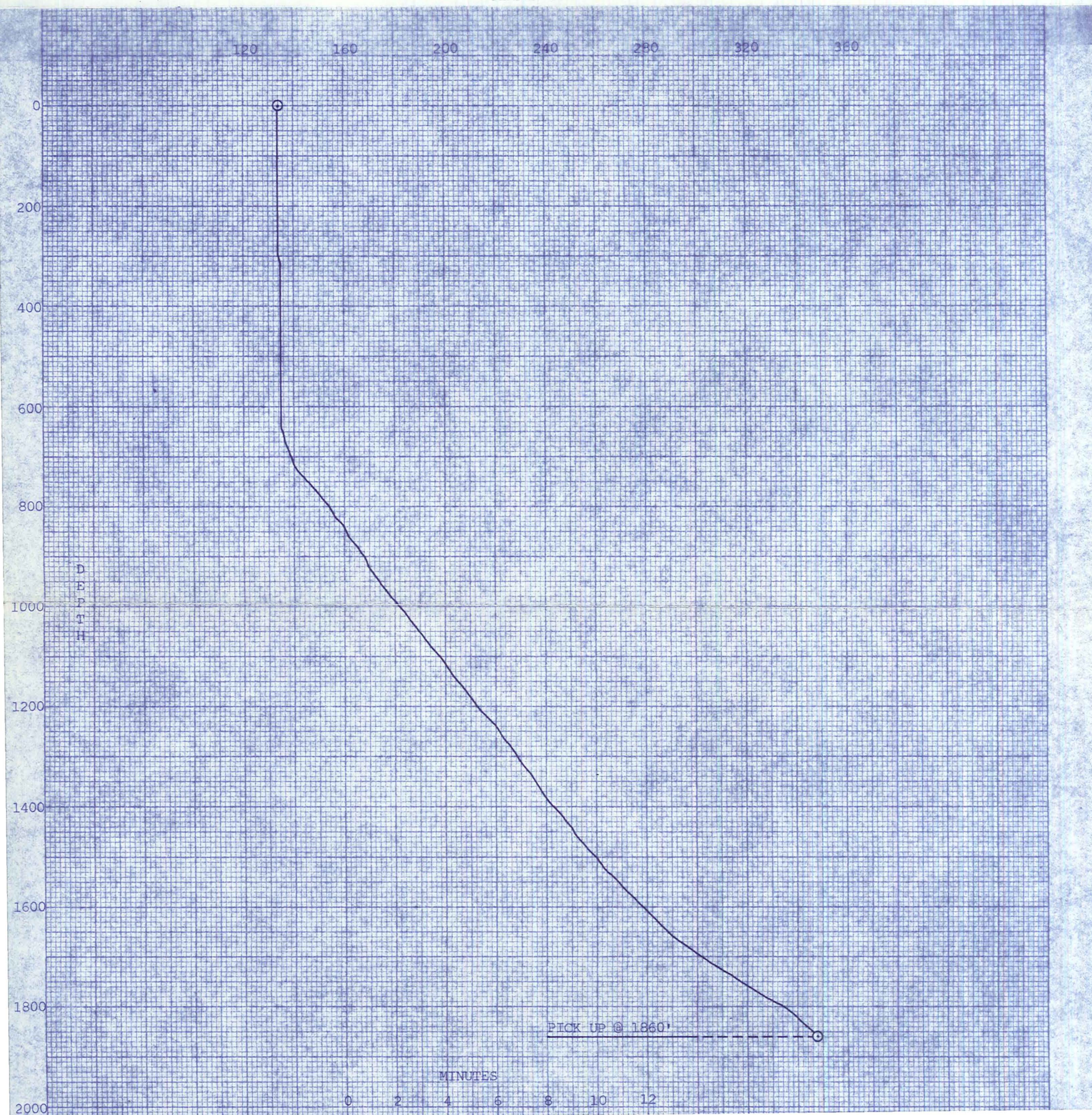
PICK UP 1860' PRESSURE, P SIG \_\_\_\_\_

STATUS	START	FINISH
<u>Static</u>		

TIME ON BOTTOM	<u>2:49 pm</u>	CASING	<u>150</u>	
TIME OFF BOTTOM	<u>3:08 pm</u>	TUBING	<u>-0-</u>	<u>-0-</u>

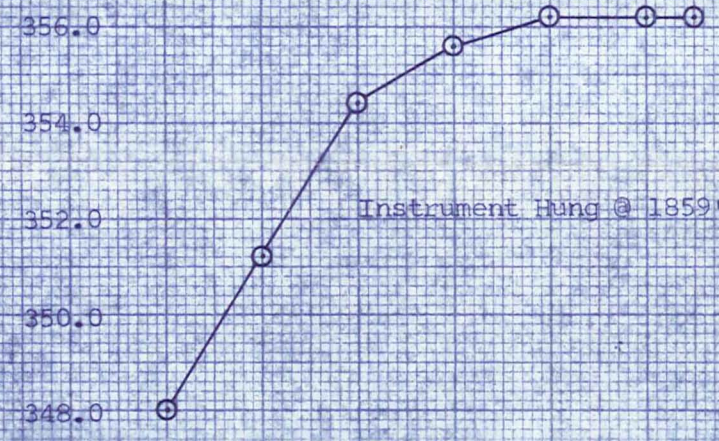
INSTRUMENT HUNG AT 1859' BY CONNELL & MEADORS

TEMPERATURE





DEPTH



SUB-SURFACE TEMPERATURE DATA

DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F
0	134.3	360	135.0	720	140.9	1080	194.8	1420	246.8	1760	320.9
20	134.3	380	135.0	740	144.6	1100	198.2	1440	249.9	1780	327.1
40	134.3	400	135.0	760	147.6	1120	200.4	1460	252.4	1800	334.9
60	134.3	420	135.0	780	150.2	1140	203.5	1480	256.0	1820	339.3
80	134.3	440	135.0	800	154.0	1160	207.5	1500	259.7	1840	343.6
100	134.3	460	135.0	820	156.5	1180	209.6	1520	262.7	1859	348.0
120	134.3	480	135.0	840	160.3	1200	212.7	1540	267.0		
140	134.3	500	135.3	860	161.9	1220	216.4	1560	270.0	INSTR. HUNG @ 1859'	
160	134.7	520	135.3	880	165.1	1240	220.1	1580	274.0	MIN. TEMP.	
180	134.7	540	135.3	900	168.5	1260	222.8	1600	278.2	0	348.0
200	134.7	560	135.3	920	169.7	1280	225.9	1620	282.5	2 min.	351.2
220	134.7	580	135.2	940	172.8	1300	228.7	1640	286.4	4	354.4
240	134.7	600	135.3	960	175.6	1320	231.4	1660	290.7	6	355.6
260	134.7	620	135.3	980	178.4	1340	234.8	1680	296.7	8	356.2
280	134.7	640	135.7	1000	182.4	1360	237.0	1700	302.2	10	356.2
300	134.7	660	136.0	1020	185.5	1380	239.7	1720	308.0	11	356.2
320	135.0	680	137.3	1040	188.9	1400	243.4	1740	314.0		
340	135.0	700	139.0	1060	191.7						