

# AGNEW AND SWEET

## WIRELINE SERVICE

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Production  
Specialists

### SUBSURFACE TEMPERATURE SURVEY

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

#### WELL DATA

ZERO POINT Mat + 24' DEPTH 1840'  
ELEVATION \_\_\_\_\_ ZONE \_\_\_\_\_  
CASING 9-5/8" @ 1777'

#### SURVEY CONDITIONS

DATE February 4, 1975  
PURPOSE STATIC TEMPERATURE TRAVERSE SURVEY  
REMARKS Open hole from 1777' to pick-up  
Traverse 20' per minute

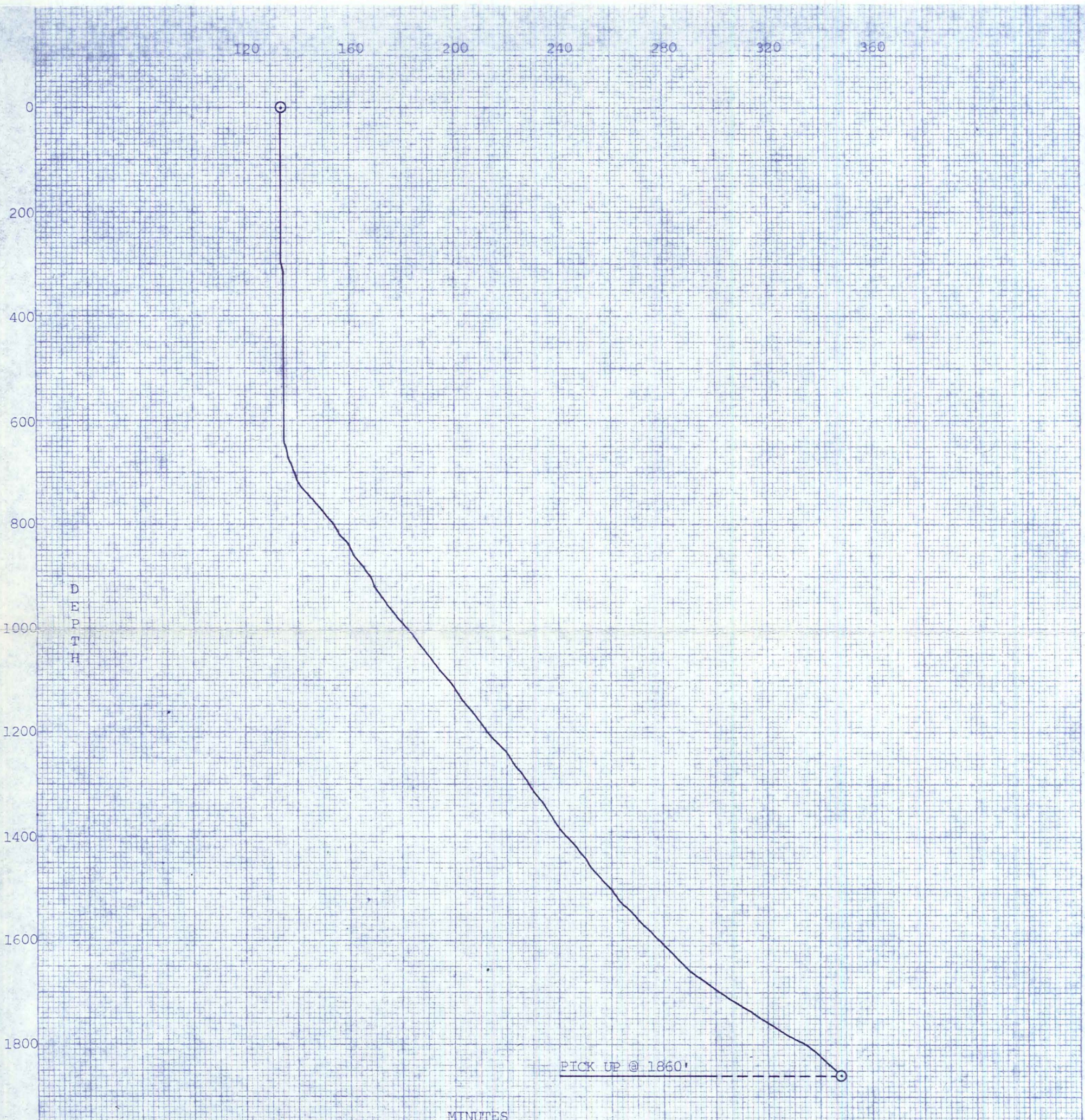
LINER DESCRIPTION \_\_\_\_\_

3 HOUR 15 TURN Casing  TUBING  ANNULUS   
INSTRUMENT 123 - 698 °F, SERIAL NUMBER 10030  
MAX. TEMPERATURE 350.2 °F, AT 1860'

TUBING DETAIL No tubing in hole

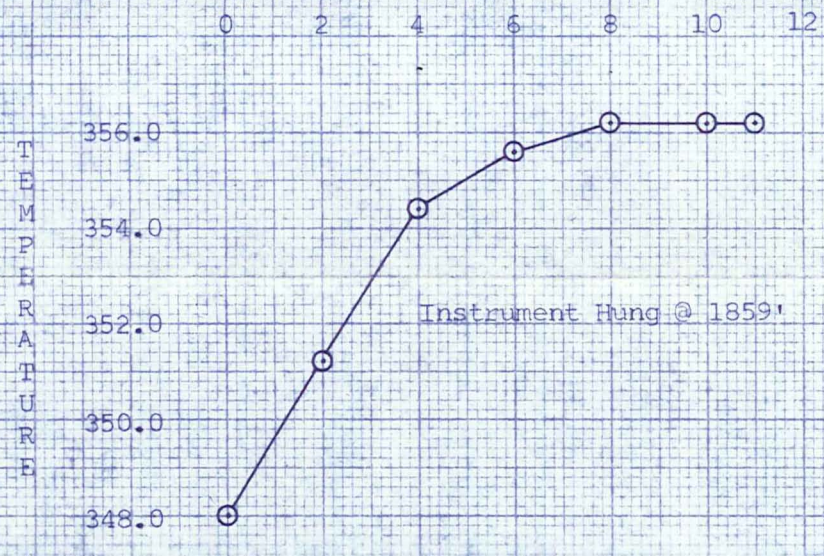
SHUT IN \_\_\_\_\_ STABILIZATION PERIOD \_\_\_\_\_  
PICK UP 1860' PRESSURE, P SIG \_\_\_\_\_  
STATUS Static  
TIME ON BOTTOM 2:49 pm CASING 150  
TIME OFF BOTTOM 3:08 pm TUBING -0-

INSTRUMENT HUNG AT 1860' BY GUNNELL & ASSOCIATES





2000



SUB-SURFACE TEMPERATURE DATA

DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F
0	131.3	360	135.0	720	140.9	1080	194.8	1440	246.8	1760	320.9
20	134.3	380	135.0	740	144.6	1100	198.2	1460	249.9	1780	327.1
40	134.3	400	135.0	760	147.6	1120	200.4	1480	252.4	1800	334.9
60	131.3	420	135.0	780	150.2	1140	202.4	1500	255.9	1820	339.3
80	134.3	440	135.0	800	152.5	1160	204.7	1520	259.7	1840	345.1
100	134.3	460	135.0	820	156.5	1180	209.6	1540	262.7	1859	348.0
120	134.3	480	135.0	840	160.3	1200	212.7	1560	267.0		
140	134.3	500	135.3	860	161.9	1220	216.4	1580	270.0	INSTR. HUNG @ 1859'	
160	134.7	520	135.3	880	165.1	1240	220.1	1600	274.0	MIN.	TEMP.
180	134.7	540	135.3	900	168.5	1260	222.8	1620	278.2	0	348.0
200	134.7	560	135.3	920	169.7	1280	225.9	1640	282.5	2 min.	351.2
220	134.7	580	135.2	940	172.8	1300	228.7	1660	286.4	4	354.4
240	134.7	600	135.3	960	175.6	1320	231.4	1680	290.7	6	355.6
260	134.7	620	135.3	980	178.4	1340	234.8	1700	296.7	8	356.2
280	134.7	640	135.7	1000	182.4	1360	237.0	1720	302.2	10	356.2
300	134.7	660	136.0	1020	185.5	1380	239.7	1740	308.0	11	356.2
320	135.0	680	137.3	1040	188.9	1400	243.4		314.0		
340	135.0	700	139.0	1060	191.7						