

AGNEW AND SWEET

WIRELINE SERVICE

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

SUBSURFACE TEMPERATURE SURVEY

OWNER PHILLIPS PETROLEUM COMPANY FIELD STEAMBOAT SPRINGS WELL NAME Strat Test #3

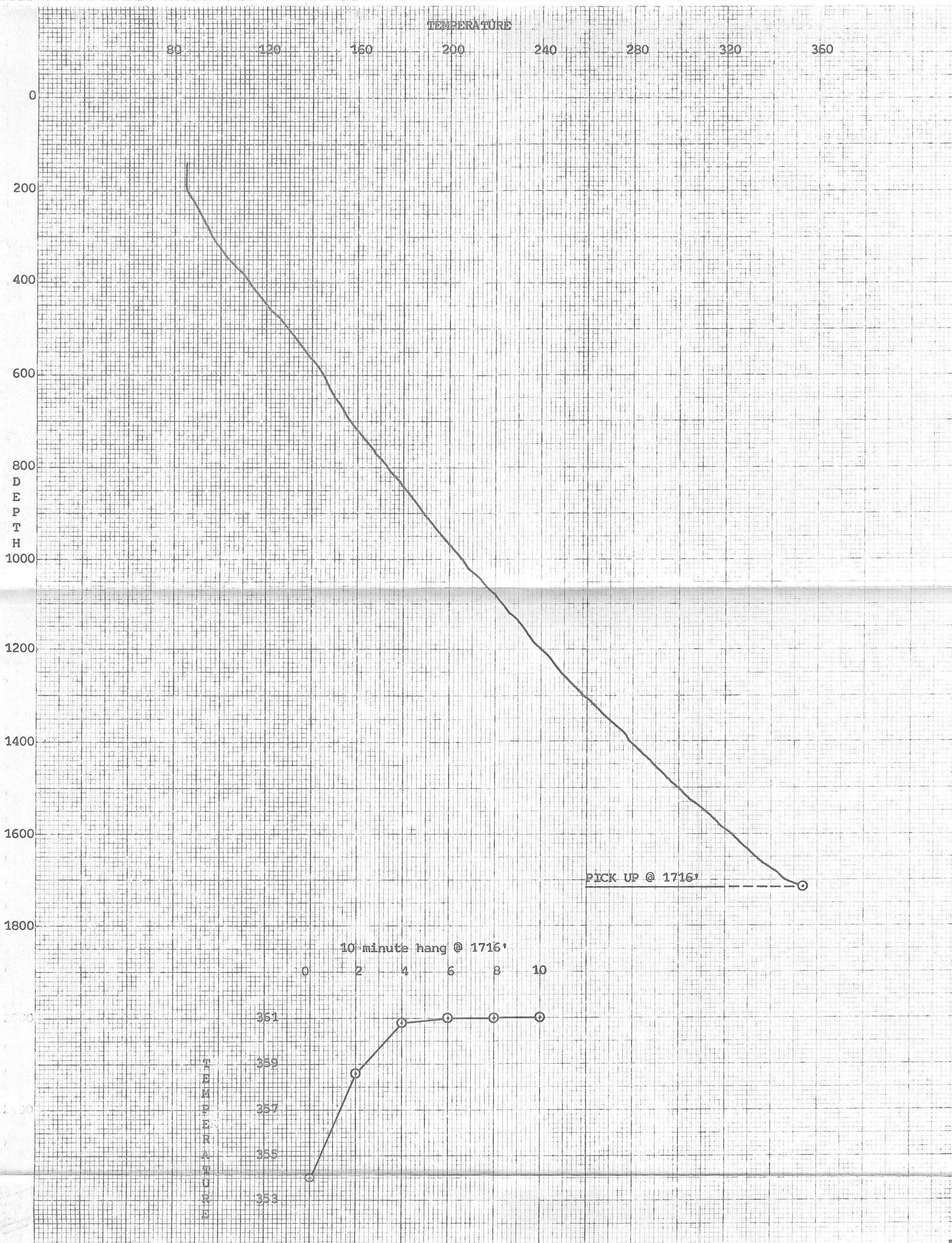
WELL DATA

ZERO POINT Ground DEPTH 1717'
ELEVATION _____ ZONE _____
CASING _____

SURVEY CONDITIONS

DATE November 30, 1977
PURPOSE STATIC TEMPERATURE TRAVERSE SURVEY
REMARKS 20' per min.

3 HOUR 15 TURN TUBING ANNULUS
LINER DESCRIPTION _____ INSTRUMENT 85-645 °F, SERIAL NUMBER 10287
MAX. TEMPERATURE 361.0 °F, AT 1716'
SHUT IN _____ STABILIZATION PERIOD _____
TUBING DETAIL 2" @ 1717' PICK UP 1716' PRESSURE, P SIG _____
STATUS Static START _____ FINISH _____
TIME ON BOTTOM 9:41 am CASING _____
TIME OFF BOTTOM 9:51 am TUBING _____
INSTRUMENT HUNG AT 1716' BY Sundberg & Crider



SUB-SURFACE TEMPERATURE DATA

DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F	DEPTH	TEMP. °F
20		340	102.8	660	152.0	980	202.9	1300	258.9	1620	327.5
40		360	106.3	680	154.4	1000	206.2	1320	262.0	1640	331.3
60		380	110.2	700	157.4	1020	208.6	1340	267.9	1660	336.5
80		400	113.1	720	160.5	1040	213.0	1360	271.8	1680	342.1
100		420	116.0	740	163.2	1060	216.2	1380	276.2	1700	346.7
120		440	119.4	760	167.1	1080	220.0	1400	278.2	1716	354.0
140	85.0	460	122.8	780	170.5	1100	223.0	1420	283.5		
160	85.0	480	127.5	800	173.8	1120	226.5	1440	287.6	10 min. hang @ 1716'	
180	85.0	500	130.6	820	177.1	1140	230.6	1460	291.5	0	354.0
200	85.3	520	133.4	840	180.2	1160	233.5	1480	295.7	2 min.	358.6
220	86.3	540	136.2	860	183.2	1180	236.7	1500	300.4	4 min.	360.8
240	90.2	560	139.6	880	186.8	1200	240.5	1520	304.0	6 min.	361.0
260	92.6	580	143.1	900	189.9	1220	244.9	1540	309.1	8 min.	361.0
280	94.9	600	145.2	920	192.6	1240	247.8	1560	314.6	10 min.	361.0
300	96.9	620	147.4	940	195.6	1260	251.6	1580	317.7		
320	99.8	640	149.9	960	199.0	1280	255.1	1600	323.0		