

**SUBSURFACE SURVEY**

TEMPERATURE

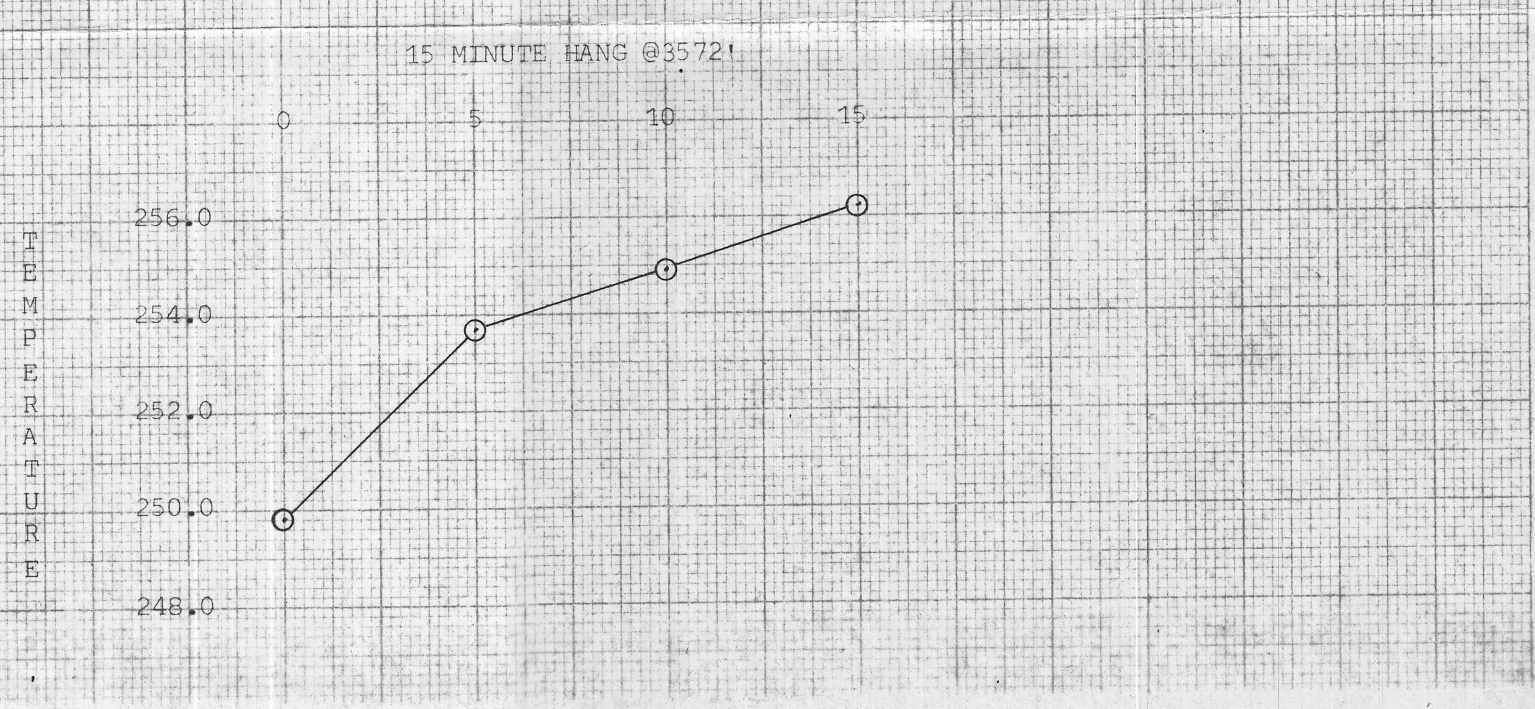
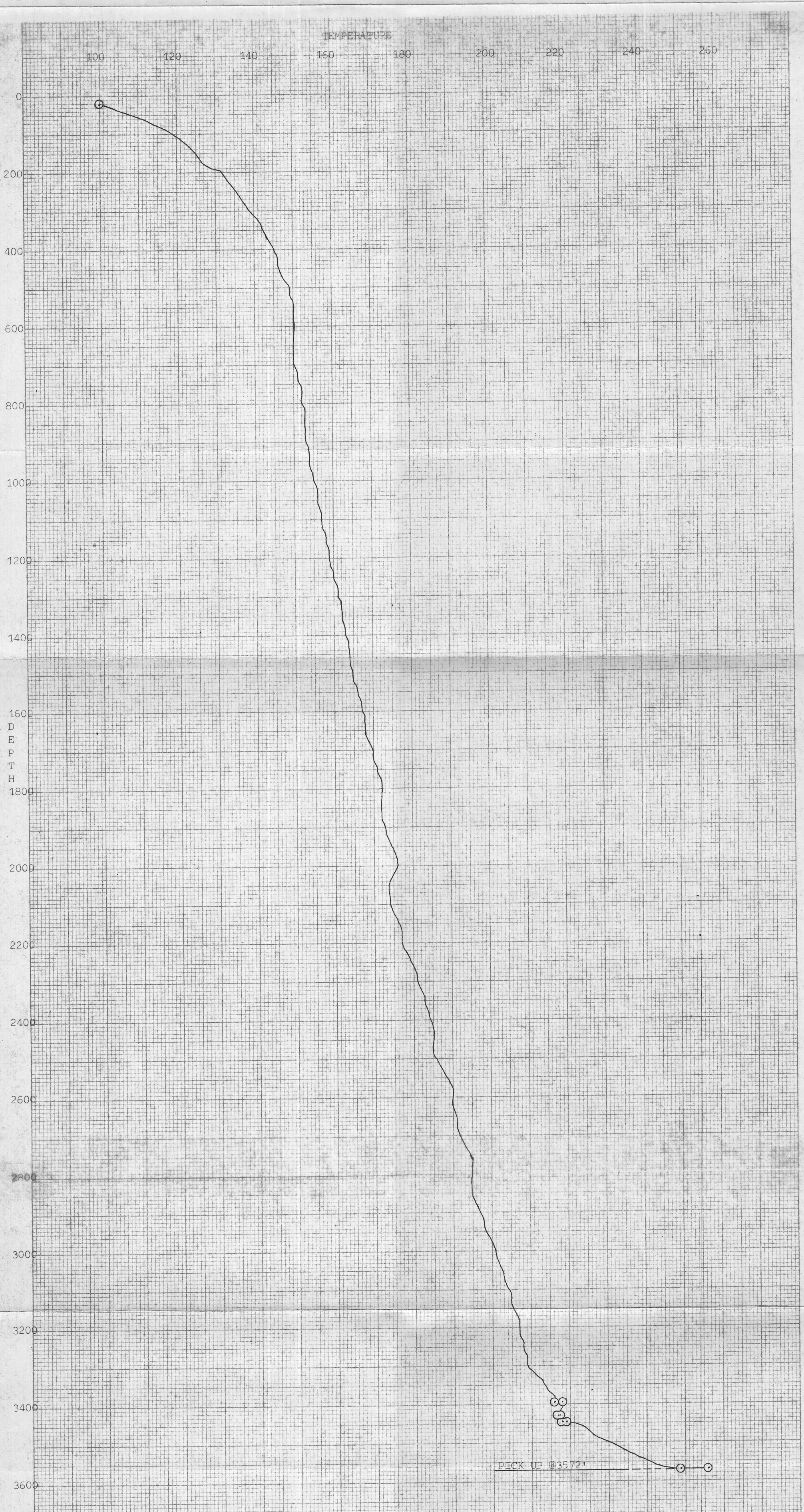
OWNER	GETTY OIL COMPANY	FIELD	ROOSEVELT	WELL NAME	KGRA 52 - 21
CASING	13-5/8"	ELEV.		DATE	March 21 & 22, 1978
LINER DESCRIPTION:				ZERO POINT D. F.	
PERFORATIONS:				MPP	
TUBING DETAIL:				DEPTH	3568' ZONE

WELL STATUS	Open Hole	PUMP SHOE	SHUT IN	ON PRODUCTION	
SURVEYED	TUB. <input type="checkbox"/> ANN <input type="checkbox"/>	ENGAGE STYLUS	10:20 pm 3-21-78	DISENGAGE STYLUS	2:46 am 3-22-78
PICK UP @	3572'	TIME ON BOTTOM	2:15 am 3-22-78	TIME OFF BOTTOM	2:30 am 3-22-78
ELEMENT RANGE	76 - 646	SERIAL NO.	10025	CLOCK	12 TURN 15
PURPOSE	STATIC TEMPERATURE TRAVERSE SURVEY			MAX. F	256.2 @ 3572'

REMARKS: Traverse 20' per minute. 15 minute top & bottom stops.  
10 minute stops @ 3395', 3430', 3445'. 15 minute hang @ 3572'

STABILIZATION PERIOD		
PRESSURES:	START	FINISH
DATE		
CASING PSI OBS		
CASING PSI COR		
TUBING PSI OBS		
TUBING PSI COR		
PRESS STATUS		
INSTRUMENT HUNG @	3572'	

BY: Sundberg & McDonald



DEPTH	TEMP.	DEPTH	TEMP.	DEPTH	TEMP.	DEPTH	TEMP.	DEPTH	TEMP.	DEPTH	TEMP.
20	100.3	680	150.9	1320	162.0	1960	175.4	2600	190.0	3240	208.0
40	105.9	700	150.9	1340	162.3	1980	176.0	2620	190.7	3260	208.7
60	111.1	720	151.5	1360	162.6	2000	176.3	2640	191.0	3280	209.0
80	115.9	740	151.8	1380	163.0	2020	175.7	2660	191.5	3300	209.9
100	119.2	760	152.4	1400	163.6	2040	174.7	2680	191.9	3320	211.4
120	122.0	780	152.4	1420	164.2	2060	174.1	2700	192.0	3340	213.2
140	124.3	800	152.8	1440	164.6	2080	174.1	2720	193.9	3360	314.7
160	126.5	820	153.1	1460	164.9	2100	174.7	2740	194.8	3380	216.0
180	138.1	840	153.1	1480	164.9	2120	175.7	2760	195.1	3395	216.9
200	139.7	860	153.4	1500	165.2	2140	176.7	2780	195.1	3400	218.1
220	133.6	880	153.4	1520	165.8	2160	177.6	2800	195.1	3420	217.8
240	135.2	900	153.7	1540	166.1	2180	177.6	2820	195.1	3430	217.8
260	136.5	920	154.0	1560	166.8	2200	177.6	2840	195.1	3445	218.4
280	138.1	940	154.4	1580	167.1	2220	178.6	2860	195.4	3460	224.8
300	139.7	960	154.7	1600	167.7	2240	179.8	2880	196.1	3480	226.9
320	141.6	980	155.0	1620	168.4	2260	180.5	2900	197.0	3500	230.0
340	142.9	1000	155.3	1640	168.7	2280	181.1	2920	198.0	3520	234.2
360	143.8	1020	156.0	1660	168.7	2300	181.7	2940	198.9	3540	238.5
380	144.5	1040	156.6	1680	169.3	2320	182.7	2960	199.6	3560	243.7
400	145.1	1060	156.9	1700	170.3	2340	183.3	2980	200.5	3572	249.8
420	146.1	1080	157.2	1720	170.9	2360	183.7	3000	201.2		
440	146.7	1100	157.5	1740	171.6	2380	184.3	3020	201.5		
460	147.7	1120	157.9	1760	171.9	2400	184.6	3040	202.5		
480	148.6	1140	158.2	1780	172.2	2420	185.3	3060	203.1		
500	149.3	1160	158.8	1800	172.5	2440	185.3	3080	203.7		
520	149.9	1180	159.1	1820	172.8	2460	185.3	3100	204.4		
540	150.2	1200	159.1	1840	172.8	2480	185.9	3120	205.6		
560	150.2	1220	159.8	1860	172.8	2500	186.8	3140	205.9	INSTR. HUNG @ 3572'	
580	150.2	1240	160.1	1880	172.8	2520	187.8	3160	206.5	TIME	TEMP.
600	150.2	1260	160.7	1900	173.5	2540	188.4	3180	207.1	0	249.8
620	150.2	1280	161.0	1920	173.8	2560	189.4	3200	207.1	5 min.	252.7
640	150.5	1300	161.7	1940	174.4	2580	190.0	3220	207.4	10	254.9
660	150.9									15	256.2