

SUBSURFACE SURVEY

OWNER AMAX EXPLORATION INC.	FIELD GEYSERS	WELL NAME AMAX #1 LIVERMOVE
CASING:	ELEV.	DATE: Oct. 23, 1978
LINER DESCRIPTION:		ZERO POINT D.F.
PERFORATIONS:		MPP
TUBING DETAIL:		DEPTH 7960' ZONE

WELL STATUS Static (open end drill pipe)	PUMP SHOE SHUT IN	ON PRODUCTION
SURVEYED TUB. <input type="checkbox"/> ANN <input type="checkbox"/>	ENGAGE STYLUS 12:42 pm	DISENGAGE STYLUS 8:57 pm
PICK UP @ None made	TIME ON BOTTOM 2:57 pm	TIME OFF BOTTOM 5:57 pm
ELEMENT RANGE *100-558, 99-517	SERIAL NO. *10136, 10286	CLOCK 12 hr. TURN 15
PURPOSE STATIC TEMPERATURE TRAVERSE, BUILD UP, GRADIENT SURVEY		MAX. °F 243.1 @ 7930'

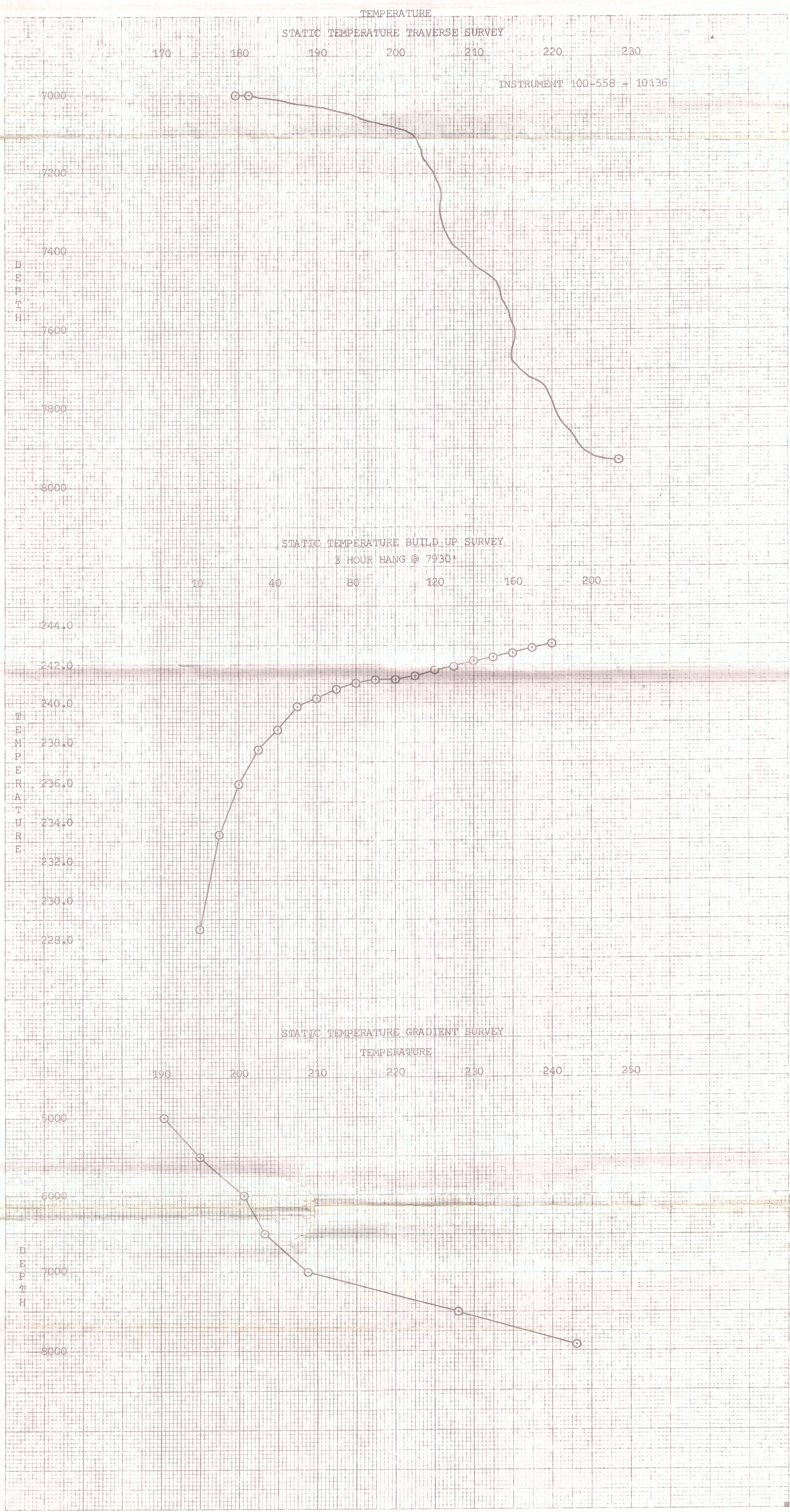
REMARKS:

- (1) Run to 7000', hang for 22 minutes.
- (2) Traverse 20' per minute from 7000' to 7930'.
- (3) Hang 3 hours @ bottom 7930'.
- (4) Make 500' stops from 7930' to 5000'.

NOTE: Drill pipe moved up & down during survey.

STABILIZATION PERIOD		
PRESSURES:	START	FINISH
DATE		
CASING PSI OBS		
CASING PSI COR		
TUBING PSI OBS		
TUBING PSI COR		
PRESS. STATUS		
INSTRUMENT HUNG @	7930'	

BY: SUNDBERG & SWEETSER



STATIC TEMPERATURE TRAVERSE SURVEY			
DEPTH	TEMP.	DEPTH	TEMP.
7000	179.6	7500	213.4
"	181.3	7520	213.6
7020	186.2	7540	214.1
7040	192.1	7560	214.6
7060	196.5	7580	214.8
7080	199.2	7600	215.3
7100	202.1	7620	215.3
7120	202.8	7640	215.0
7240	203.3	7660	214.8
7160	203.5	7680	215.0
7180	204.2	7700	216.0
7200	205.0	7720	217.4
7220	205.4	7740	219.1
7240	205.7	7760	219.6
7260	205.9	7780	220.1
7280	205.7	7800	220.3
7300	205.7	7820	220.3
7320	205.9	7840	221.5
7340	206.1	7860	222.5
7360	206.6	7880	223.0
7380	207.3	7900	223.9
7400	208.5	7920	225.6
7420	209.5	7930	228.5
7440	210.2		
7460	211.9		
7480	213.1		

STATIC TEMPERATURE BUILD UP SURVEY	
3 HOUR HANG @ 7930'	
TIME	TEMP.
0	228.5 ✓ 233.3
10 min.	233.3
20	235.9
30	237.6 ✓ 238.6
40	238.6
50	239.8
60	240.2 ✓ 239.6
70	240.7
80	241.0
90	241.2 ✓ 240.3
100	241.2
110	241.4
120	241.7 ✓ 241.5
130	241.9
140	242.2
150	242.4 ✓ 242.4
160	242.6
170	242.9
180	243.1 ✓ 243

STATIC TEMPERATURE GRADIENT SURVEY	
DEPTH	TEMP.
7930	243.1
7500	228.0
7000	208.8
6500	203.3
6000	200.6
5500	195.0
5000	190.4