

H-1 Dixie Valley NV.

GRADIENT HOLE NO.

6-7-78 48 hours AFTER 1st Temp. Run.

DATE OF SURVEY

EPHT	°C	°F	DEPTH	°C	°F	DEPTH	°C	°F	DEPTH	°C	°F
0	37.3	99.14	60	67.7		20	80.4		80	93.5	
10	22.3		70	69.1		30	80.8		90	93.8	
20	27.7		80	68.5		40	81.1		1400	94.2	201.56
30	32.1		90	68.8		50	81.4		10	94.5	
40	34.7		500	69.2	156.5	60	81.6		20	94.8	
50	37.9		10	69.4		70	81.9		30	95.1	
60	41.8		20	69.8		80	82.1		40	95.4	
70	44.7		30	70.1		90	82.3		50	95.7	
80	46.1		40	70.4		1000	82.5	180.5	60	96.0	
90	47.4		50	70.7		10	82.7		70	96.4	
100	48.7	119.6	60	71.0		20	83.0		80	96.7	
10	50.2		70	71.3		30	83.3		90	97.0	
20	51.8		80	71.6		40	83.6		1500	97.3	207.14
30	53.4		90	71.9		50	83.9				
40	54.8		600	72.2	161.9	60	84.1		T.D. 1500'		
50	56.1		10	72.5		70	84.4				
60	57.1		20	72.8		80	84.6				
70	57.9		30	73.1		90	84.9				
80	58.7		40	73.3		1100	85.1	185.1			
90	59.2		50	73.5		10	85.3				
200	59.6	139.2	60	73.7		20	85.5				
10	59.8		70	73.9		30	85.9				
20	59.9		80	74.1		40	86.3				
30	60.1		90	74.4		50	86.6				
40	60.4		700	74.7	166.40	60	86.9				
50	60.7		10	75.0		70	87.2				
60	61.0		20	75.2		80	87.5				
70	61.3		30	75.4		90	87.8				
80	61.6		40	75.7		1200	88.1	190.5			
90	61.8		50	76.0		10	88.4				
300	62.1	143.7	60	76.2		20	88.6				
10	62.4		70	76.4		30	88.9				
20	62.7		80	76.7		40	89.2				
30	63.0		90	76.9		50	89.5				
40	63.3		800	77.2	170.96	60	89.8				
50	63.6		10	77.5		70	90.1				
60	63.9		20	77.8		80	90.4				
70	64.2		30	78.0		90	90.7				
80	64.5		40	78.2		1300	91.0	195.8			
90	64.8		50	78.5		10	91.4				
400	65.3	149.54	60	78.8		20	91.7				
10	65.8		70	79.0		30	92.0				
20	66.2		80	79.3		40	92.3				
30	66.6		90	79.5		50	92.6				
40	67.0		900	79.8	175.64	60	92.9				
50	67.3		10	80.1		70	93.2				

SHALLOW TEMPERATURE GRADIENT HOLE RECORD



DD-9

GRADIENT HOLE NO.

DIXIE VALLEY NEVADA

PROSPECT

Southland Royalty Company

2600' F.W.L. Sec 14

LOCATION

S 14 T 23N R 35E

SEC. TOWNSHIP RANGE

CHURCHILL NEVADA

COUNTY STATE

3-19-1978

SPUD DATE

4-6-1978

COMPLETION DATE

183.92° F

BOTTOM HOLE

AT

1430

FT.

3.83°

F/100'

TEMP.

GRADIENT 1130 TO 1430

1,440 FEET

TOTAL DEPTH

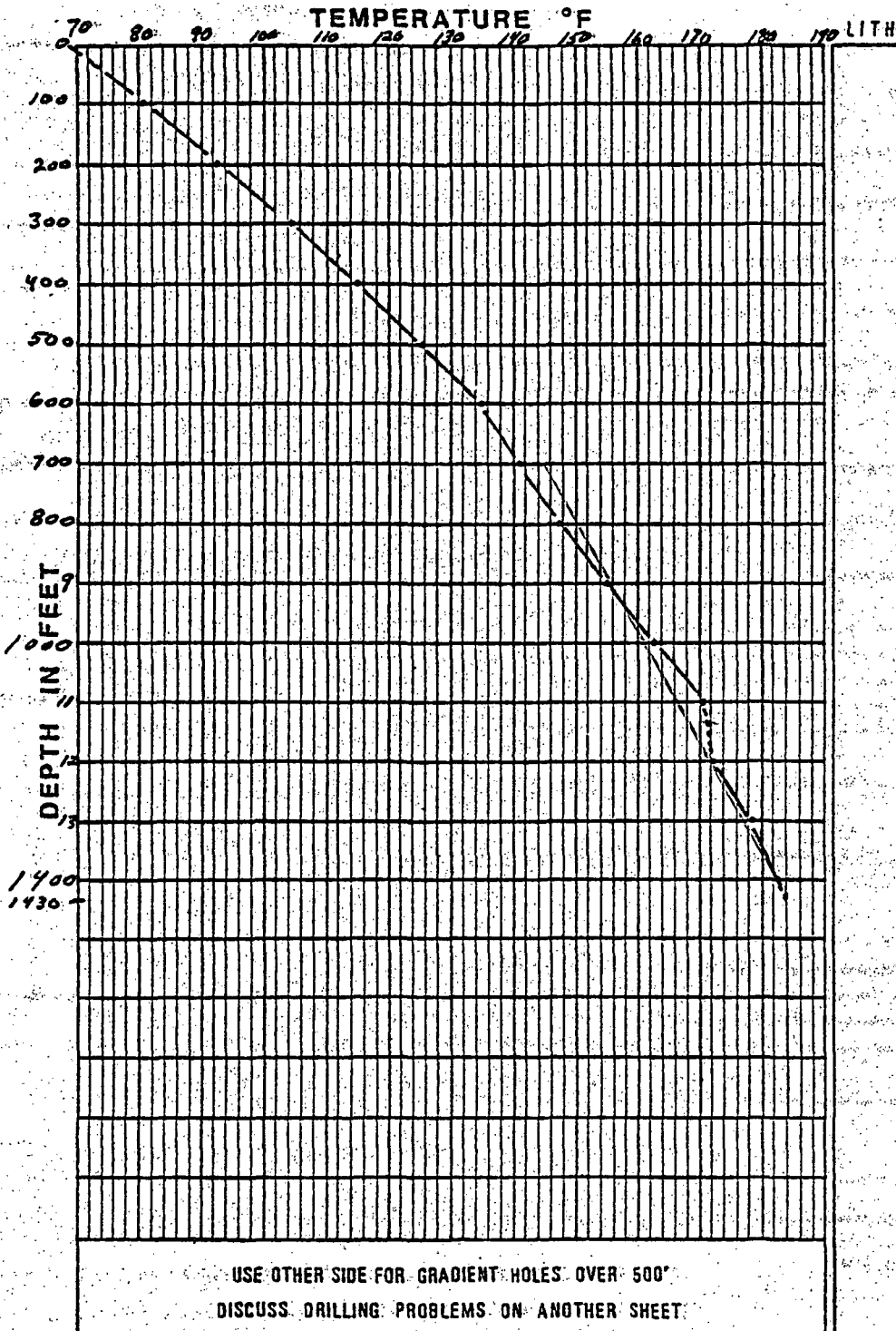
MIKE Jodry

GEOLOGIST OR PERSON READING TEMP.

Christiansen Drilling - Fly MEN

COMPANY DRILLING HOLES

K.B. 3414 ±



FOR HOLES 0-500'

TEMP	°C	°F	°F	°F
DATE OF SURVEY				
TIME SINCE COMPLETION				
<u>SEE OTHER SIDE</u>				
LOST CIRCULATION ZONES:				
WATER ENTRIES:				

by D.S. McMURDO 1/9/79

DD-9

GRADIENT HOLE NO.

5-16-78

DATE OF SURVEY

DEPTH	°C	°F	DEPTH	°C	°F	DEPTH	°C	°F	DEPTH	°C	°F
0	20.2	68.36	60	49.9		20	69.1		80	83.2	
10	18.9		70	50.5		30	69.5		90	83.4	
20	19.2		80	51.0		40	69.9		1400	83.7	182.66
30	20.2		90	51.5		50	70.4		10	83.9	
40	21.4		500	52.0	125.6	60	70.8		20	84.1	
50	22.4		10	52.5		70	71.3		30	84.4	183.9
60	24.2		20	53.0		80	71.7				
70	25.1		30	53.5		90	72.2		T.D. 1430 FEET		
80	25.6		40	54.0		1000	72.6	162.68			
90	26.4		50	54.5		10	73.0				
100	26.9	80.4	60	54.8		20	73.4				
10	27.2		70	55.5		30	73.8				
20	27.8		80	56.0		40	74.3				
30	28.6		90	56.5		50	74.7				
40	29.3		600	57.0	134.6	60	75.1				
50	30.0		10	57.6		70	75.5				
60	30.9		20	58.1		80	76.0				
70	31.6		30	58.6		90	76.4				
80	32.6		40	59.0		1100	76.9	170.42			
90	33.1		50	59.4		10	77.3				
200	33.6	92.48	60	59.6		20	77.7				
10	34.4		70	59.7		30	78.0				
20	35.0		80	59.9		40	78.2				
30	35.7		90	60.2		50	78.1				
40	36.3		700	60.5	140.9	60	78.1				
50	37.1		10	60.7		70	—				
60	37.8		20	60.9		80	77.6				
70	38.4		30	61.3		90	77.2				
80	39.0		40	61.6		1200	77.9	172.22			
90	39.7		50	62.0		10	78.8				
300	40.3	104.5	60	62.4		20	79.2				
10	41.0		70	62.8		30	79.5				
20	41.5		80	63.2		40	79.8				
30	42.0		90	63.7		50	80.0				
40	42.7		800	64.1	147.38	60	80.3				
50	43.3		10	64.4		70	80.6				
60	43.9		20	64.8		80	80.8				
70	44.6		30	65.2		90	81.1				
80	45.2		40	65.6		1300	81.3	178.34			
90	45.7		50	66.0		10	81.6				
400	46.3	115.3	60	66.5		20	81.8				
10	46.9		70	67.0		30	82.0				
20	47.5		80	67.4		40	82.2				
30	48.2		90	67.8		50	82.5				
40	48.8		900	68.2	154.76	60	82.7				

SHALLOW TEMPERATURE GRADIENT HOLE RECORD



5-8
GRADIENT HOLE NO.

DIXIE VALLEY
PROSPECT

Southland Royalty Company

Approx 200'S ON Line NW cor. S 2 T 23 N. R 35 E
LOCATION SEC. TOWNSHIP RANGE

CHURCHILL NEVADA
COUNTY STATE

14 June 1978
SPUD DATE

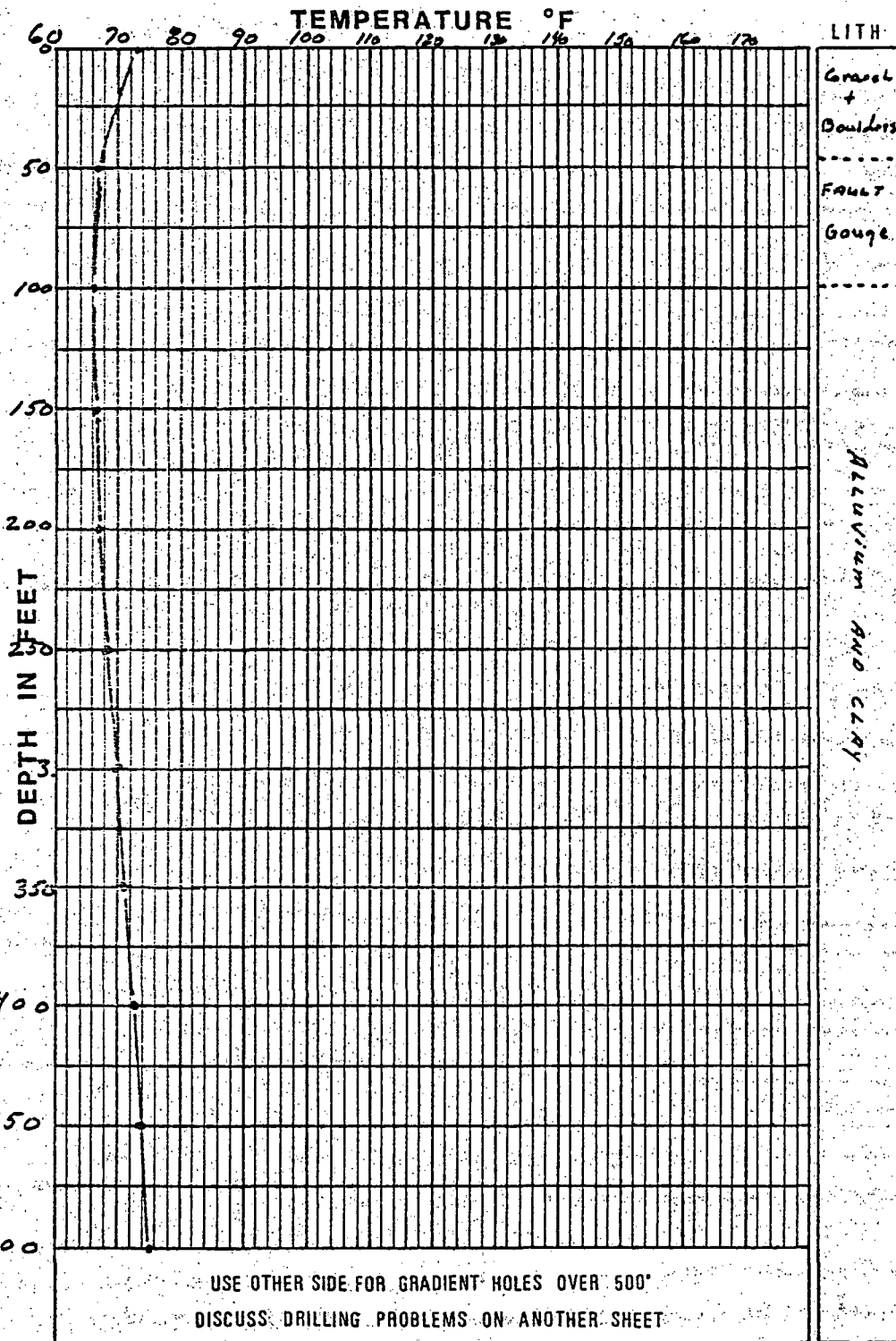
19 June 1978
COMPLETION DATE

75.0° AT 500 FT. 2.6° F/100'

500
TOTAL DEPTH

M. Tedy
GEOLOGIST OR PERSON READING TEMP.

Christiansen Drilling Ely, NEV.
COMPANY DRILLING HOLES



TEMP	°C	°F	°F	°F
DATE OF SURVEY	9-3-78	9-3-78		
TIME SINCE COMPLETION	75 days	75 days		
0	22.8	73.0		
20	22.1	71.7		
40	19.4	66.9		
60	18.9	66.0		
80	18.9	66.0		
100	18.9	66.0		
120	19.0	66.2		
140	19.1	66.3		
160	19.3	66.7		
180	19.4	66.9		
200	19.6	67.2		
220	19.8	67.6		
240	20.1	68.1		
260	20.4	68.7		
280	20.7	69.2		
300	21.0	69.8		
320	21.3	70.3		
340	21.6	70.8		
360	21.9	71.4		
380	22.3	72.1		
400	22.6	72.6		
420	22.9	73.2		
440	23.1	73.5		
460	23.3	73.9		
480	23.6	74.4		
500	23.9	75.0		

LOST CIRCULATION ZONES:
48'-50'

WATER ENTRIES: None

USE OTHER SIDE FOR GRADIENT HOLES OVER 500'
DISCUSS DRILLING PROBLEMS ON ANOTHER SHEET

Prep. by D.S. McMurdie

