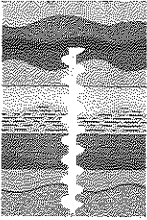


A-53



4155 EAGLE ROCK  
BL. • LOS ANGELES  
CALIFORNIA 90065



(213) 255-4511

GEO THERMAL  
SURVEYS, INC.

March 13, 1972

APR 6 1972

Mr. W. O. Anderson  
Thermal Power Company  
2244 Beverly Blvd.  
Los Angeles, Calif. 90057

Dear Mr. Anderson:

The enclosed thermal logs were taken in seven wells in the Klamath Falls, Oregon area. One well, No. 3, was artesian with a surface flow sufficient to prevent taking a log. We did however take and record the temperature of the water at the surface.

Well No. 7 is omitted and could not be logged. The well was capped and mud conditions prevailed over attempts to reach the well with cutting equipment.

The static water levels you asked about are in the upper left corner of each log sheet.

A field copy of the thermal logs was given to Dr. Giancarlo E. Facca.

Our geologist reported excellent accommodation in the field and I appreciate your attention to this.

Yours very truly,

GEO THERMAL SURVEYS, INC.

  
J. B. Indreland

Encl:

7 thermal logs and  
1 artes. well temp.

Date: MARCH 8, 1972

Project: LAMATH FALLS, OREGON

Probe No.: 381

Logged By: A. B. ESMILLA

Probe Correction: 12.47 ohms

Depth Indicator Reading when  
probe returned to surface  
(ft.) 000

SWL (ft.) 21

WELL THERMAL LOG

Well Name/No.: 1

Location: STOCKYARD

BY CRYSTAL SPRINGS RD

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	3487.5	3362.8	9.70				
20	3248.1	3123.4	11.47				
40	3219.0	3094.3	11.67				
60	3189.0	3064.3	11.89				
80	3170.9	3046.2	12.03				
100	3149.4	3024.7	12.20	3147.5	3022.8	12.22	
120	3120.1	2995.5	12.43				
140	3089.4	2964.7	12.67				
160	3054.1	2929.4	12.95				
180	3018.6	2893.9	13.24				
200	2975.0	2850.3	13.50	2972.6	2847.9	13.62	
220	2933.0	2808.3	13.95				
240	2886.8	2762.1	14.25				
256	2852.0	2727.3	14.65				

Date: MARCH 8, 1972Project: LAMATH FALLS, OREGONProbe No.: 381Logged By: A. B. ESMILLAProbe Correction: 124.7 ohmsDepth Indicator Reading when  
probe returned to surface  
(ft.)                     SWL (ft.) 42

## WELL THERMAL LOG

Well Name/No.: 2Location: KNOLL NORTH  
OF NUSS LAKE

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	3424.5	3299.8	10.17				
20	3401.1	3276.4	10.34				
40	3362.8	3238.1	10.61				
60	3305.5	3180.8	11.02				
80	3236.0	3111.3	11.54				
100	3160.0	3045.3	12.04	3167.5	3042.8	12.06	
120	3130.8	3006.1	12.34				
140	3088.2	2963.5	12.68				
160	3049.5	2924.8	12.99				
180	2990.0	2865.3	13.47				
200	2913.6	2788.9	14.12	2913.6	2788.9	14.12	
220	2852.0	2727.3	14.65				
240	2793.9	2669.2	15.17				
252	2761.0	2636.3	15.47				
Blm at 252'							

Date: MARCH 8, 1970

Probe No.: 331

Probe Correction: 1247 ohms  
SWL (ft.) ARTESIAN

Project: KLAMATH FALLS, ORE.

Logged By: A. B. ESMILLA

Depth Indicator Reading when  
probe returned to surface  
(ft.) \_\_\_\_\_

WELL THERMAL LOG

Well Name/No.: 3

Location: WINEMA SPRINGS

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
Surf. Flow of Artesian Hole	2072.0	1947.3	22.99				Water Temp.

Date: MARCH 8, 1972

Project. KLAMATH FALLS, OREGON

Probe No.: 331

Logged By: A. B. ESMILLA

Probe Correction: 124.7 ohms

Depth Indicator Reading when  
probe returned to surface  
(ft.)                     

SWL (ft.) 28

WELL THERMAL LOG

Well Name/No.: 3A

Location: WINEMA SPRINGS

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	3551.2	3426.5	9.22				
20	3369.5	3244.8	10.56				
40	3285.0	3160.3	11.17				
60	3212.1	3087.4	11.72				
80	3142.2	3017.5	12.25				
100	3066.5	2941.8	12.85	3064.1	2939.4	12.87	
120	2998.1	2873.4	13.41				
140	2925.0	2800.3	14.02				
160	2835.7	2711.0	14.79				
180	2776.5	2651.8	15.33				
200	2733.2	2608.5	15.72	2734.4	2609.7	15.71	
220	2688.4	2563.7	16.14				
240	2648.8	2524.1	16.52				
251	2629.6	2504.9	16.71				
Btm	at 251'						

Date: MARCH 7, 1976Project: KLAMATH FALLS, OREGONProbe No.: 381Logged By: A. B. ESMILLAProbe Correction: 124.7 ohmsDepth Indicator Reading when  
probe returned to surface  
(ft.) 201SWL (ft.) 18.5WELL THERMAL LOGWell Name/No.: 4 O'NeillLocation: In the canyon

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	3831.0	3706.3	7.16				
20	3755.1	3630.4	9.29				
40	3145.3	3020.6	12.73				
60	2585.4	2460.7	17.14	2589.6	2464.9	17.10	
80	2224.9	2100.2	21.07				
100	2113.7	1989.0	22.45	2107.3	1982.6	22.53	
120	1904.6	1779.9	25.32				
140	1884.4	1759.7	25.61	1883.4	1758.7	25.62	
160	1898.1	1773.4	25.41				
180	1918.0	1793.3	25.11				
200	1944.1	1819.4	24.74	1941.0	1816.3	24.78	
220	1970.6	1845.9	24.37	1967.7	1843.0	24.40	
240	1988.5	1863.8	24.12				
256	2008.7	1884.0	23.84	2008.7	1884.0	23.84	2nd rdg. after 10 minutes

Date: MARCH 8, 1970Project: KLAMATH FALLS, OREGONProbe No.: 381Logged By: A. B. ESMILLAProbe Correction: 124.7 ohmsDepth Indicator Reading when  
probe returned to surface  
(ft.) 999SWL (ft.) 137.5WELL THERMAL LOGWell Name/No.: 5 O'NeillLocation: In the canyon

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	3528.4	3403.7	9.40				
20	3164.2	3039.5	12.08				
40	2959.5	2834.8	13.73				
60	2777.7	2653.0	15.31				
80	2622.9	2498.2	16.77				
100	2455.1	2330.4	18.48	2452.0	2327.3	18.51	
120	2186.6	2061.9	21.54				
140	2093.2	1968.5	22.72				
160	2084.9	1960.2	22.82				
180	2086.0	1961.3	22.81				
200	2088.9	1964.2	22.77	2088.4	1963.7	22.79	
220	2094.8	1970.1	22.69				
240	2125.2	2000.5	22.29				
255	2129.0	2004.3	22.25				
Btm.	at 255'						
230	2116.0	1991.3	22.42				Intermediate rdgs. going up hole
210	2091.5	1966.8	22.74				
190	2086.0	1961.3	22.81				
170	2085.7	1961.0	22.81				
150	2090.2	1965.5	22.76				
130	2099.3	1974.6	22.64				
110	2243.5	2118.4	20.85				

Date: MARCH 7, 1972

Project: KLAMATH FALLS

Probe No.: 381

Logged By: A. B. ESMILLA

Probe Correction: 124.7 ohms  
SWL (ft.) 137

Depth Indicator Reading when  
probe returned to surface  
(ft.) \_\_\_\_\_

WELL THERMAL LOG

Well Name/No.: 6

Location: OLD HOUSE

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	3587.9	3463.2	8.97				
20	3415.0	3290.3	10.24				
40	3327.2	3202.5	10.87				
60	3230.4	3105.7	11.58				
80	3120.9	2996.2	12.42				
100	2973.0	2848.3	13.62	2972.0	2847.3	13.62	
120	2831.0	2706.3	14.84				
140	2710.0	2585.3	15.94	2708.1	2583.4	15.95	
160	2603.4	2478.7	16.96				
180	2447.6	2322.9	18.54				
200	2360.5	2235.8	19.51				
220	2286.7	2162.0	20.34	2286.1	2161.4	20.35	
240	2245.1	2120.4	20.83				
250	2211.0	2086.3	21.24				
Btm at 250'							



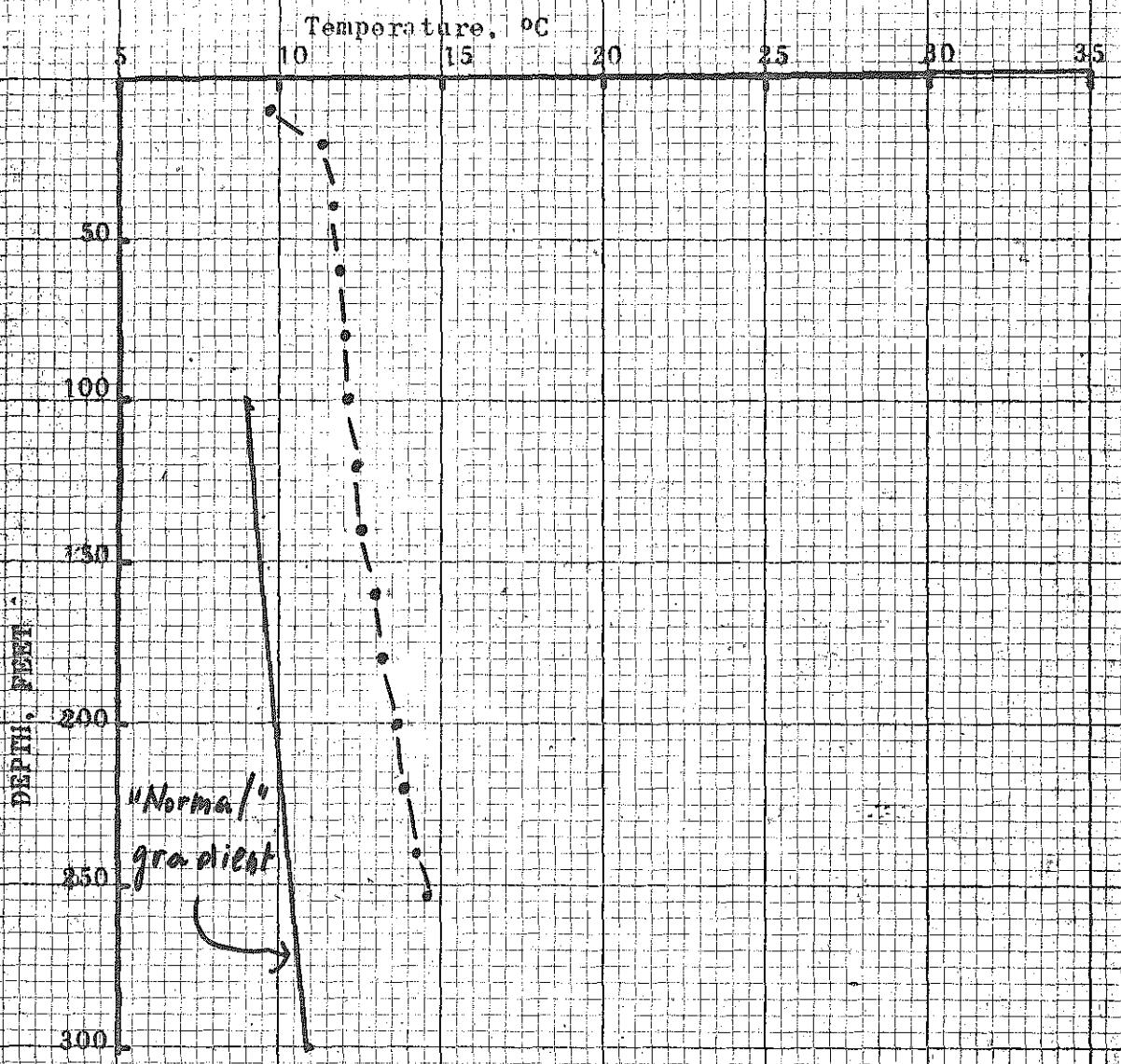
Date: MARCH 7, 1972Project: KLAMATH FALLSProbe No.: 381Logged By: A. B. ESMILLAProbe Correction: 124.7 ohmsDepth Indicator Reading when  
probe returned to surface  
(ft.) 200SWL (ft.) 100

## WELL THERMAL LOG

Well Name/No.: 8Location: Cable's Corral

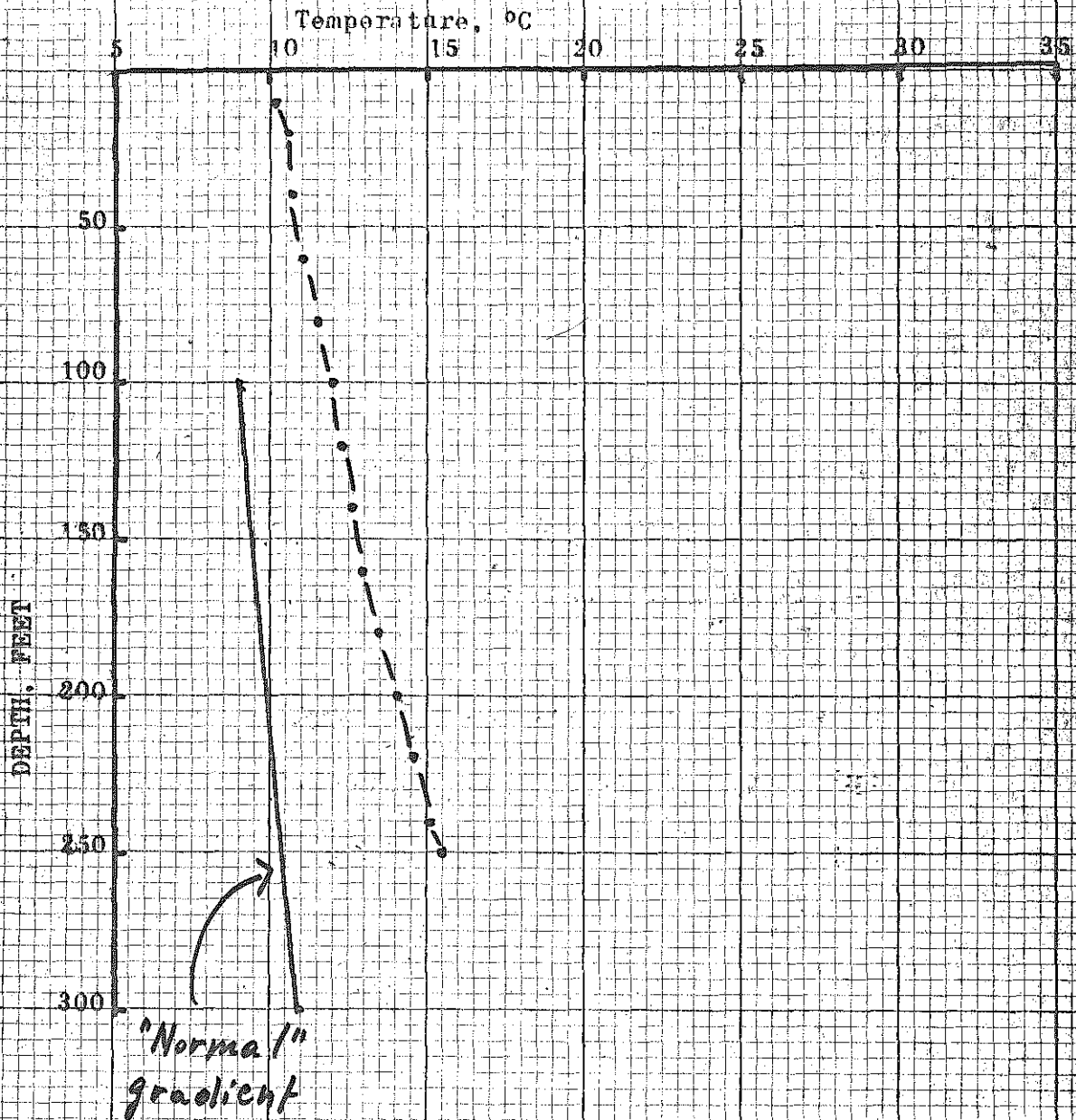
Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	4068.3	3943.6	5.39				
20	4016.0	3891.3	5.80				
40	3913.7	3789.0	6.53				
60	3721.9	3597.2	7.99				
80	3568.2	3443.5	9.10				
100	3372.5	3247.8	10.54	3370.4	3245.7	10.55	
110	3305.4	3180.7	11.02				
120	3263.6	3138.9	11.33				
130	3213.5	3088.8	11.71				
140	3182.2	3057.5	11.95				
150	3139.2	3014.5	12.28				
160	3106.1	2981.4	12.54	3103.5	2978.8	12.57	
170	3046.1	2921.4	13.02				
180	2960.5	2845.8	13.64				
190	2905.2	2780.5	14.19				
200	2852.3	2727.6	14.65	2850.0	2725.3	14.67	
220	2756.0	2631.3	15.51				
240	2685.6	2560.9	16.17				
Bottom	at 241						

THERMAL POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
OLENE, OREGON  
GRADIENT SURVEY JANUARY-MARCH, 1972  
WELL: O'NEILL No. 1  
DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:  
A. Esquilla



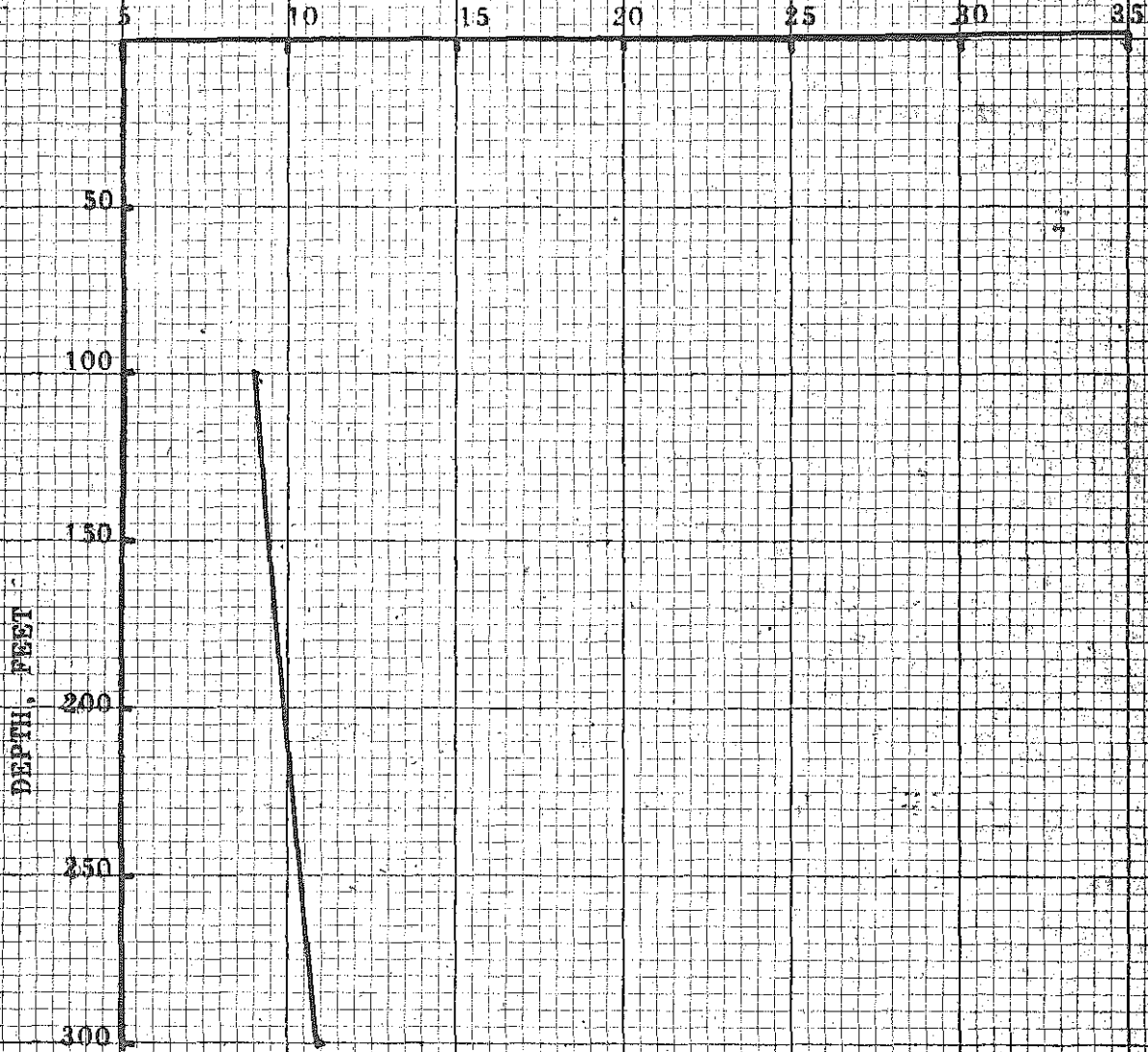
THERMAL-POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
CLENE, OREGON  
GRADIENT SURVEY JANUARY-MARCH, 1972  
WELL: O'NEILL No. 2  
DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:

A. Esquilla



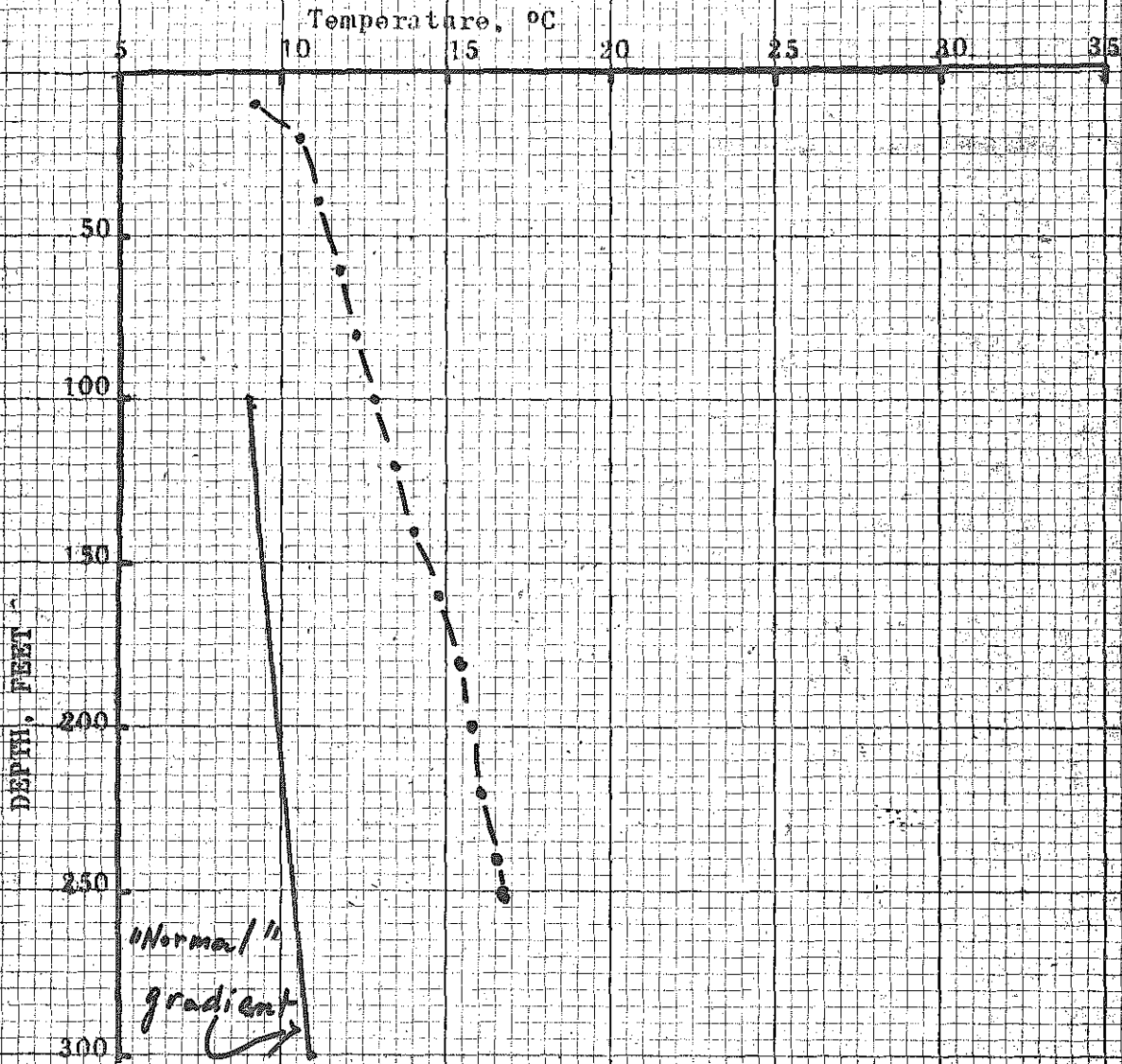
THERMAL POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
OLENE, OREGON  
GRADIENT SURVEY      JANUARY-MARCH, 1972  
WELL: O'NEILL No. 3

DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:  
*Artesian well. Water temp. 22°95CA. Esmilla*



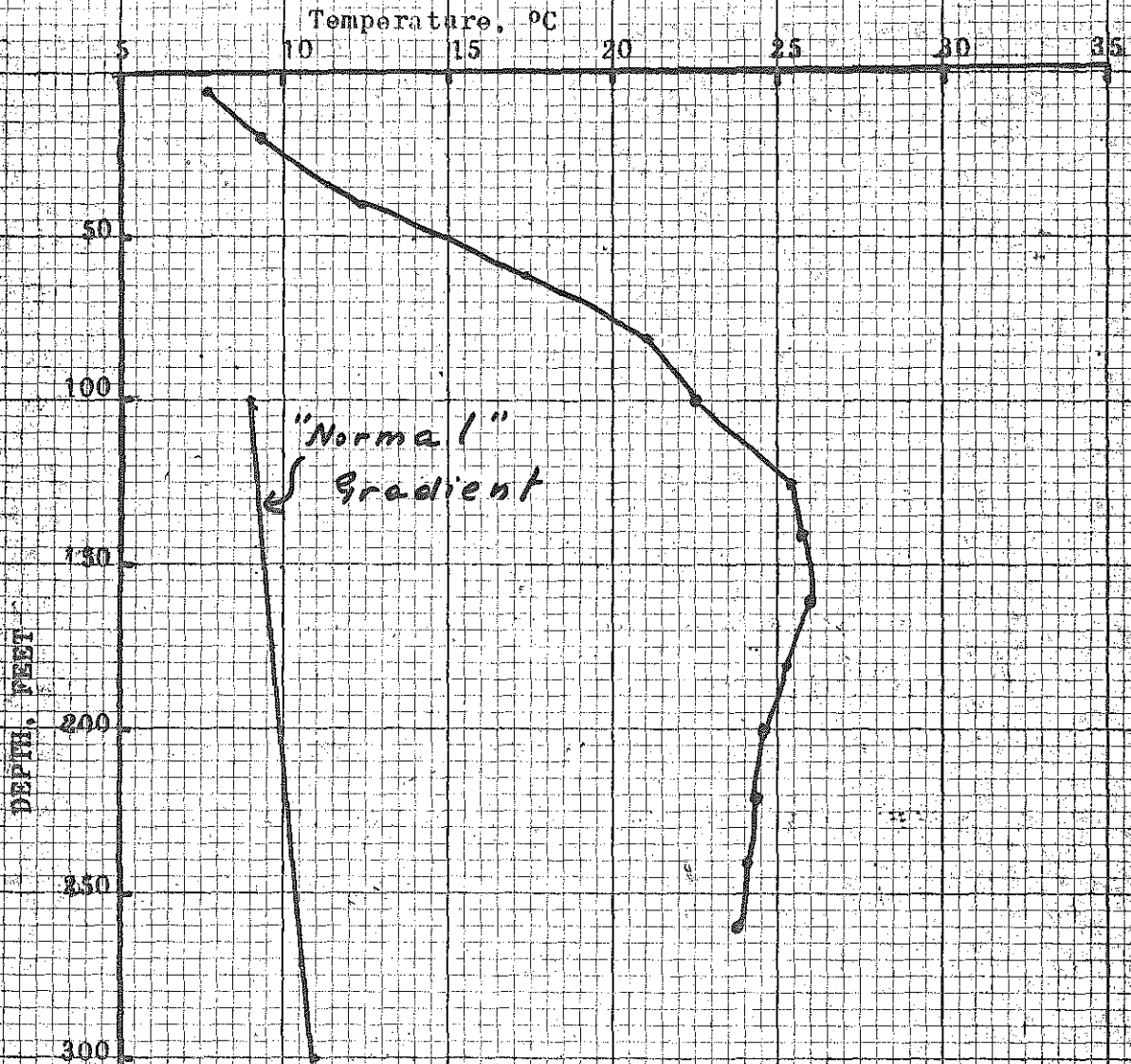
THERMAL POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
OLENE, OREGON  
GRADIENT SURVEY JANUARY-MARCH, 1972  
WELL: O'NEILL No. 3 A  
DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:

A. Esmilla



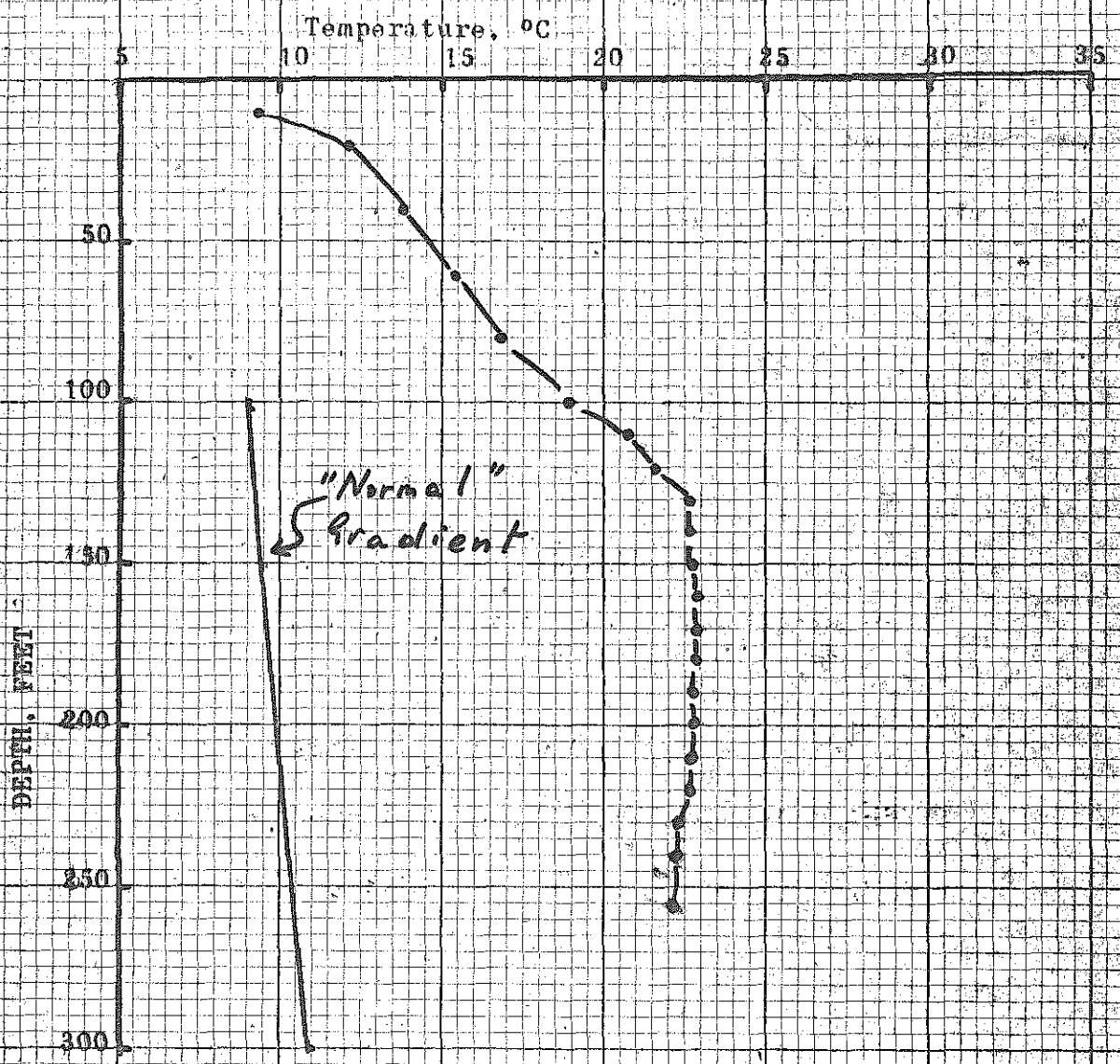
THERMAL POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
OLENE, OREGON  
GRADIENT SURVEY JANUARY-MARCH, 1972  
WELL: O'NEILL No. 4  
DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:

A. Esquilla



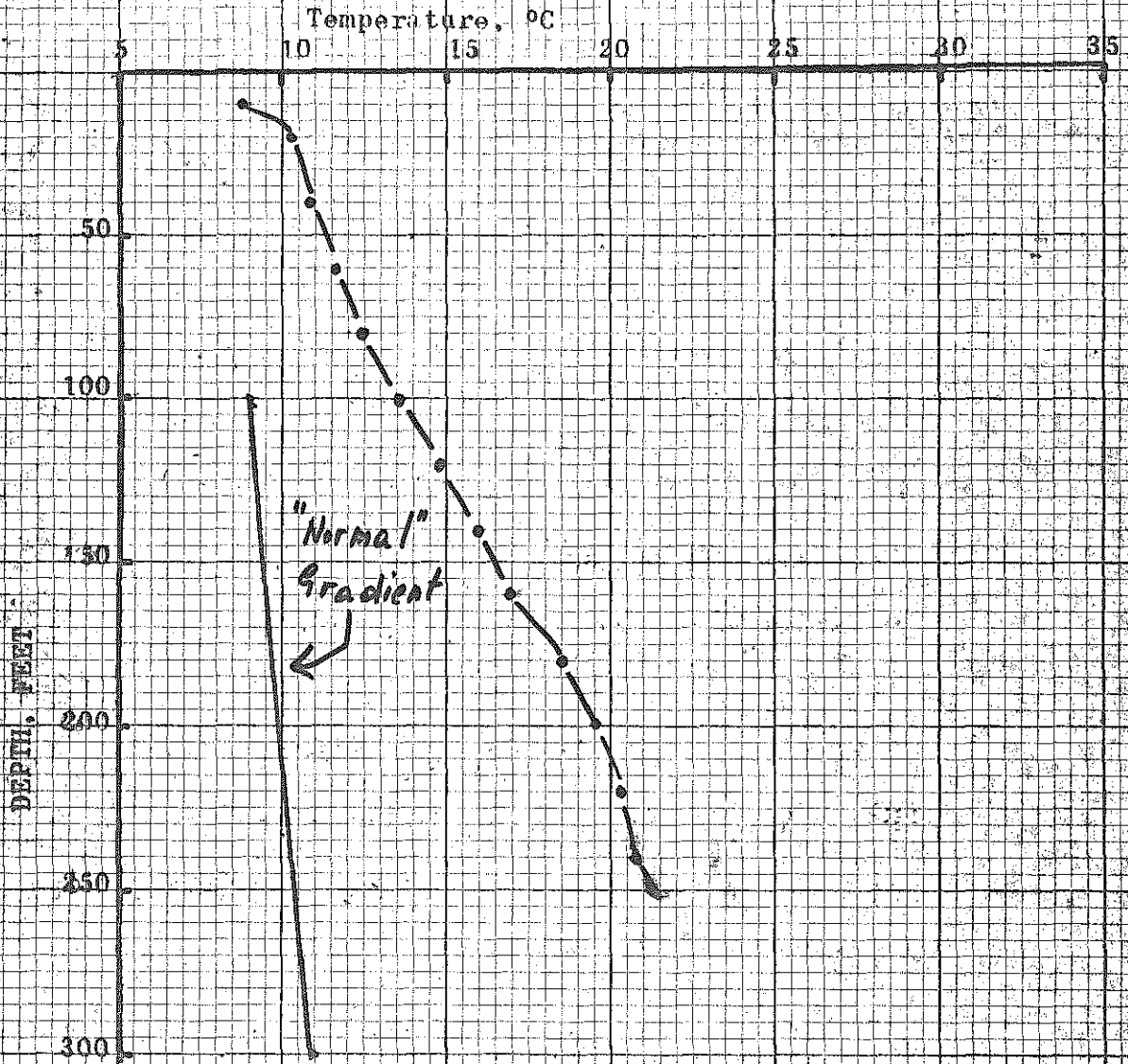
THERMAL POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
OLENE, OREGON  
GRADIENT SURVEY JANUARY-MARCH, 1972  
WELL: O'NEILL No. 5  
DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:

A. Esquilla



THERMAL POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
CLENE, OREGON  
GRADIENT SURVEY JANUARY-MARCH, 1972  
WELL: O'NEILL No. 6  
DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:

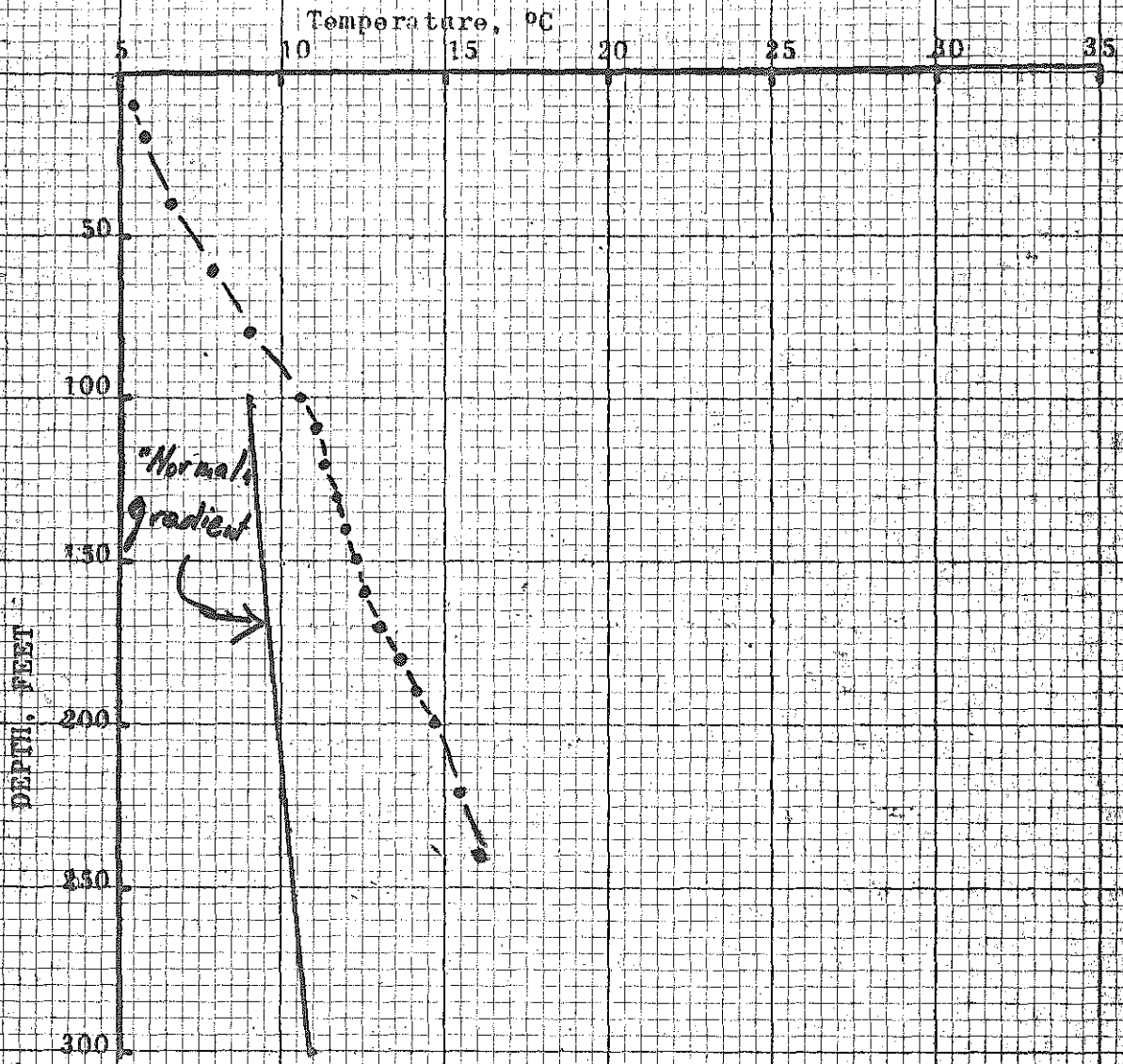
A. Esquilla





THERMAL POWER CO.  
O'NEILL GEOTHERMAL EXPLORATION PROJECT.  
OLENE, OREGON  
GRADIENT SURVEY      JANUARY-MARCH, 1972  
WELL: O'NEILL No. 8  
DRILLER: United Geophysical Co.  
TEMPERATURE MEASUREMENTS: Geothermal Survey, Inc. Operator:

A. Esilla



PETROGRAPHIC REPORT

Geothermal Exploration Drill Hole

Well Number 1

Analyst Purdum & Gardner *M. Gardner*

Location N of Nuss Lake

Date of Analysis 14 Mar 72

Instrument 30X Leitz Binocular

Description	Interval, Feet		Column, %	Remarks
	From	To		
Light grey calcareous and ashy volcanic siltstone (epiclastic) with 10% dark lithic fragments, some magnetite; 10% tuff.	0	20	150X	Maybe significant diatomite not measurable with less than 150X magnification. Depth to static water 21 feet
Volcanic silt and claystone, diatomaceous(?)	20	40		
Clay matrix around weathered ash and lapilli fragments, tuff.	40	60		
Volcanic silt and claystone	60	80		
Grey volcanic siltstone	80	100		
Grey volcanic siltstone, dark ferro magnesians increasing.	100	120		
Grey calcareous volcanic siltstone, some sand sized grains.	120	140		
Grey volcanic siltstone, some sand grains, some limonite stain.	140	160		
Grey volcanic siltstone	160	180		
Grey volcanic siltstone, some feldspar crystals	180	200		
Grey volcanic siltstone	200	220		
Same as 200-220.	220	240		
Same as 200-220.	240	260		

*2/23/72  
G. J. Purdum*

PETROGRAPHIC REPORT

Geothermal Exploration Drill Hole

Well Number 2

Location WNW Nuss Lake

Analyst Gardner & Purdom *M. Gardner*

Date of Analysis 16 March 72

Instrument 30X Leitz Binocular

Description	Interval, Feet		Column, %	Remarks
	From	To		
Grey vesicular basalt, 50%, with opal vesicle filling; coarse volcanic siltstone with red lithic pebbles and rounded mineral grains.	0	20		
Indurated volcanic sandstone, with rounded grains basalt, quartz in oxidized ferruginous cement, volcanic siltstone, carbonized wood fragments.	20	40		Static water level at 42 feet.
Dark grey clayey siltstone, loose grained aggregate, few rounded quartz sand grains.	40	60		
Well rounded, sand sized chert pebbles, volcanic siltstone, fragments grey vesicular basalt, tan pebbly sandstone.	60	80		
Same as 60-80 with pebbles of oxidized vesicular basalt.	80	100		
Matrix of silty clay, fragments of oxidized basalt, volcanic siltstone, rounded pebbles of basalt.	100	120		
Same as 100-120.	120	140		
Grey dense indurated volcanic siltstone, oxidized tuffaceous siltstone, diatomaceous clay.	140	160		
Dark grey volcanic siltstone, fragments rounded oxidized basalt pebbles, mineral fragments, opal, few fragments vesicular basalt.	160	180		
Dark grey volcanic siltstone, dense and indurated.	180	200		
Grey volcanic siltstone, oxidized lithic fragments, few fragments weathered basalt.	200	220		
Grey volcanic siltstone, light grey tuff, lithic fragments, opal.	220	240		
Grey volcanic siltstone-clay	240	260		

PETROGRAPHIC REPORT

Geothermal Exploration Drill Hole

Well Number 3

Analyst Gardner & Purdom *McGardner*

Location \_\_\_\_\_

Date of Analysis 14 March 72

Instrument 30X Leitz Binocular

Description	Interval, Feet		Column, %			Remarks
	From	To	Si	Al	Fe	
Grey, v. fine grain silt to clay, light grey and yellow siltstone	0	20				
White diatomaceous siltstone, brown grey and black volcanic siltstone, weathered basalt fragments, red oxides.	20	40				
Grey weathered basalt, 15% hard tuff, volcanic siltstone, oxidized iron minerals.	40	60				
Grey dense basalt.	60	80				
Grey dense to diktytaxitic basalt, bluish, powdery material on surfaces.	80	100				
Grey dense basalt, black glassy material, bluish powdery material on surfaces, 10% volcanic siltstone and tuff fragments.	100	120				
Grey-black dense and vesicular basalt, much opal and blue powdery material.	120	140				
Grey-black dense basalt, grey volcanic siltstone, oxidized iron mineral grains, bluish powdery material.	140	160				

PETROGRAPHIC REPORT

Geothermal Exploration Drill Hole

Well Number 3A

Analyst Purdum & Gardner *Mc Gardner*

Location Flow Margin, S end  
Nuss Lake

Date of Analysis 14 March 72

Instrument 30X Leitz Binocular

Description	Interval, Feet		Column, %	Remarks
	From	To		
Yellow-tan epiclastic tuff; decomposed, rounded detrital grains, less than 5%.	0	20	<div style="border: 1px solid black; padding: 2px;">                     25 50 75                 </div>	
Dense grey basalt, some oxidized areas, 5% feldspar crystal fragments.	20	40		Depth to static water 28 feet.
Same as 20-40.	40	60		
Dense grey basalt, yellow-tan tuff, some rounded basalt grains and crystal fragments.	60	80		
Dense grey basalt, some oxidized fragments 5% tuff fragments.	80	100		
Dense grey fresh olivine basalt in 15mm diameter platy chips.	100	120		
Dense and vesicular grey basalt; vesicles lined with opal and bluish powdery material.	120	140		
Dense grey basalt, 5% limonite, grey opalescent material.	140	160		
Same as 140-160 but smaller chips.	160	180		
Dense to vesicular, grey to red basalt, black glassy material, vesicles lined with pale blue powdery mineral.	180	200		
Dense grey to red basalt, some vesicular basalt crystals of pyrite, black glassy material.	200	220		
Dense, dark grey olivine basalt, 5% red oxidized basalt.	220	240		
Dense dark grey basalt, 5% olivine bearing.	240	260		

PETROGRAPHIC REPORT

Geothermal Exploration Drill Hole

Well Number 4

Analyst Gardner & Purdom *Mc Gardner*

Location E. of Nuss Lake

Date of Analysis 17 March 72

Instrument 30 x Leitz Binocular

Description	Interval, Feet		Column, %	Remarks
	From	To		
Vesicular basalt, weathered to brown-yellow and red, much opal, many well rounded pebbles to 3 cm diameter.	0	20		Depth to static water 12.5 feet.
Vesicular basalt, fresh grey to yellow-brown oxidized, vesicles lined with opal, some opal replacement, some well-rounded pbbles of basalt to 2 cm. diameter.	20	40		
Same as 20-40	40-	60		
Fresh grey to red oxidized vesicular basalt fragments, vugs lined with powdery blue material, white to brown opal in vugs and as replacement of basalt, some well-rounded chert grains.	60	80		
Same as 60-80, minus chert grains.	80	100		
Grey basalt, partially replaced, vesicles filled by opal, fragments of tuff and crystal fragments, some well-rounded grains.	100	120		
Grey to red-brown basalt, some vesicles, some tuff and crystal fragments	120	140		
Grey dense basalt, 20% red oxidized ash	140	160		
Grey dense basalt, some iron oxide, some olivine crystals.	160	180		
Grey dense and vesicular basalt, glass of opal replacement, soft yellow vesicle lining.	180	200		
Grey dense and finely vesicular basalt, some red iron vesicle filling, tuff fragments.	200	220		
Grey dense and some vesicular olivine basalt, yellow-red oxides of iron minerals, tuffaceous silt, opal.	240	260		

PETROGRAPHIC REPORT

Geothermal Exploration Drill Hole

Well Number 5

Analyst Gardner & Purdom *M. Gardner*

Location \_\_\_\_\_

Date of Analysis 18 March 72

Instrument 30X Leitz Binocular

Description	Interval, Feet		Column, %			Remarks
	From	To	25	50	75	
Grey to tan fresh to oxidized vesicular olivine basalt, limonite, rounded basalt pebbles.	0	20				
Grey vesicular olivine basalt, some oxidation (tan), rounded pebbles.	20	40				
Same as 20-40	40	60				
Grey volcanic siltstone, vesicular basalt fragments, rounded basalt pebbles, some oxidation to red color.	60	80				
Same as 60-80, many loose silt-sized grains.	80	100				
Gray clayey siltstone, dense to weathered vesicular basalt 25%, some oxidation of olivine crystals in few fragments, opal.	100	120				
Grey dense to vesicular basalt strong alteration and weathering zone, 35% fragments altered to tan-yellow punky material, 10% siltstone.	120	140				Static water level at 137 feet.
Same as 120-140, less alteration, some opal.	140	160				
Dark grey vesicular olivine basalt, vesicles filled with opal.	160	180				
Same as 160-180, opal amydules multi-mineral coating of vesicles.	180	200				
Dark grey dense fresh and vesicular olivine basalt, some oxidation and vesicle filling with opal.	200	220				
Same as 200-220, more opal, large vesicles.	220	240				
Grey vesicular basalt, red iron surface oxidation and coating, altered opal vug filling.	240	260				

PETROGRAPHIC REPORT

Geothermal Exploration Drill Hole

Well Number 6

Analyst Purdum & Gardner *McLardner*

Location \_\_\_\_\_

Date of Analysis 16 March 72

Instrument 30X Leitz Binocular

Description	Interval, Feet		Column, %			Remarks
	From	To	Si	SO	TS	
Grey basalt pebbles to 3 cm diameter, moderate to well-rounded, moderately to thoroughly weathered, some platy plagioclase laths, almost diabasic, vesicular; fresh olivine basalt, limonite stained olivine in some fragments.	0	20				
Grey olivine basalt pebbles to 4 cm diameter, subrounded to subangular, few vesicles, moderate weathering, some opal and limonite.	20	40				
As in 20-40 but feldt plagioclase in some pebbles, slight weathering, vugs and crystal cavities often lined with limonite.	40	60				
As in 40-60, up to 5 cm diameter pebbles, moderate to well rounded, less weathered, fresh olivine, little limonite.	60	80				
Grey fine grained olivine basalt, in 10-15mm chips, vesicular, fresh with some limonite in vugs, few pebbles as in 0-80.	80	100				
Missing	100	120				
Grey dense to moderatley vesicular basalt, fresh, some opal and limonite in vugs.	120	140				Depth to static water 137.5 feet.
Same as 120-140.	140	160				
Vesicular olivine basalt, brown and white opal in vugs and as replacement.	160	180				
Same as 160-180	180	200				
Same as 160-200, plus some small tuff fragments.	200	220				
Same as 200-220.	220	240				
Same as 200-240, opal diminished.	240	260				



PETROGRAPHIC REPORT

Geoth al Exploration Drill Hole

Well Number 8

Analyst Gardner & Purdon *M. Gardner*

Location \_\_\_\_\_

Date of Analysis 19 March 72

Instrument 30X Leitz Binocular

Description	Interval, Feet		Column, %			Remarks
	From	To	25	50	75	
White diatomaceous very fine grained volcanic siltstone (epiclastic), grey to brown rounded tuff grains up to 1.5mm diameter.	0	20				
Same as 0-20.	20	40				
White powdery diatomaceous volcanic siltstone, grey dense basalt fragments.	40	60				
Same as 40-60.	60	80				
Grey volcanic siltstone, mud cemented fine siltstone, pebbles oxidized basalt.	80	100				
Dark grey volcanic mudstone, grey volcanic siltstone, few pebbles 10 mm diameter oxidized basalt.	100	120				Static water level 100 feet.
Grey volcanic siltstone, some limonite.	120	140				
Grey flaky, porous volcanic siltstone, feldspar laths, diatomaceous material.	140	160				
Grey volcanic siltstone, 5% feldspar crystals.	160	180				
Diatomaceous(?) grey volcanic siltstone.	180	200				
Grey-buff volcanic siltstone, 5% fine sand sized grains brown opal(?).	200	220				
Grey volcanic siltstone 50%, grey clay cemented round sand, dense basalt fragments.	220	240				
Grey volcanic siltstone, few glass fragments feldspar crystals, 5% magnetite.	240	260				