75-683

U.S. GEOLOGICAL SURVEY

FIGURE 3

U.S. GEOLOGICAL SURVEY
MENLO PARK
JUL 7 - 1975
LIBRARY

(2nd) 75GS7

INDUCTION • ELECTRIC LOG

COMPANY U.S.G.S.
WELL L.V.C.H.-1
FIELD LONG VALLEY
County MONO State CAL.
Location NW CORNER OF; Sec. 19 Twp. 3S Rge. 29E
COUNTY MONO FIELD LONG VALLEY STATE CALIFORNIA
Permanent Datum G.L. Elev. 6980' Above Perm. Datum
Log Measured from TOP OF PIPE 1.5' Above Perm. Datum
Drilling Measured from TOP OF PIPE
Other Services: FF/MSG TEMP. CALIPER NEUTRON
Date 11-2-73
Run No. ONE
Type Log NEUTRON/GAMMA
Depth-Driller 9971
Depth-Logger 9961
Bottom Logged Interval 9961
Top Log Interval CLAY BASE MUD
Type Fluid in Hole
Salinity, PPM Cl --
Density --
Level --
Max. rec. temp. deg. F 162°F @ 8HT
Equip. Location
Recorded By
Witnessed By MR. VORHEES MR. MERKEL & MR. LEWIS

Run No.	Bit	BORE-HOLE RECORD From	To	CASING RECORD Size	Wgt.	From	To
ONE	3.65	100'	9971	4 1/2	-	0'	100'

Service Ticket No. 74728 Remarks:

Change in Mud Type or Additional Samples

Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller									
Type Fluid in Hole									
Dens. / Visc.									
ph / Fluid Loss									
Source of Sample									

					EQUIPMENT DATA			
R_m @ Meas. Temp.	@ °F	@ °F	Run No.	Tool Type and No.	Pad Type	Tool Position	Other
R_{mf} @ Meas. Temp.	@ °F	@ °F	ONE	IEL 15735	--	FREE	(3.65 HOLE SIZE)
R_{mc} @ Meas. Temp.	@ °F	@ °F					
Source: R_{mf} / R_m							
R_m @ BHT	2.5 @ 162 °F	@ °F					
R_{mf} BHT	2.4 @ 162 °F	@ °F					
R_{mc} BHT	3.5 @ 162 °F	@ °F					

Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or willful misconduct, for any loss, damages, or expenses resulting from the use thereof.

POTENTIAL MILLIVOLTS	RESISTIVITY OHMS M²/M	CONDUCTIVITY M MHOS/M
-5+	0 18" Normal 100	1000 Induction 0
Rmf 9.5 at 40 °F.	0 O.S. 1000	2000 O.S. 1000
	0 18" AMPL. NORMAL 20	RESISTIVITY OHMS M²/M
	0 Induction 100	
	0 O.S. 1000	

DEPTH 100 FEET

SCALE CHANGE
RES 0 RES 100 20
18" NORMAL
AMPLIFIED 18" NORMAL
ONE MINUTE INTERVAL MARKER

RADIOACTIVITY LOG

COMPANY U.S.G.S.
WELL L.V.C.H.-1
FIELD LONG VALLEY
County MONO State CAL
Location NW CORNER OF; Sec. 19 Twp. 3S Rge. 29E
COUNTY MONO FIELD LONG VALLEY STATE CALIFORNIA
Permanent Datum G.L. Elev. 6980' Above Perm. Datum
Log Measured from TOP OF PIPE 1.5' Above Perm. Datum
Drilling Measured from TOP OF PIPE
Other Services: FF/MSG TEMP. CALIPER
Date 11-2-73
Run No. ONE
Type Log NEUTRON/GAMMA
Depth-Driller 9971
Depth-Logger 9961
Bottom Logged Interval 9961
Top Log Interval CLAY BASE MUD
Type Fluid in Hole
Salinity, PPM Cl --
Density --
Level --
Max. rec. temp. deg. F 162°F @ 8HT
Equip. Location
Recorded By
Witnessed By MR. VORHEES MR. MERKEL & MR. LEWIS

Run No.	Bit	BORE-HOLE RECORD From	To	CASING RECORD Size	Wgt.	From	To
ONE	3.65	100'	9971	4 1/2	-	0'	100'

Fold Here

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
Run No.	ONE	Run No.	ONE
Tool Model No.		Log Type	GN-G
Diameter	1 11/16	Tool Model No.	
Detector Model No.	BISMUTH	Diameter	1 11/16"
Type	GM	Detector Model No.	
Length	18"	Type	He 3
Distance to N. Source	70"	Length	6"
		Source Model No.	N/A
GENERAL		Serial No.	N-1
Hoist Truck No.	9017	Spacing	N/A
Instrument Truck No.	9017	Type	PuBe
Tool Serial No.	GO1 42	Strength	8.5X10⁶ N/SEC

LOGGING DATA

Run No.	Depths From	To	Speed Ft./Min.	T.C. Sec.	GAMMA RAY Sens. Settings	Zero Div. L or R	API G.R. Units per Log Div.	NEUTRON T.C. Sec.	Sens. Settings	Zero Div. L or R	API N. Units per Log Div.
ONE	0	998	25	2	1	5L	4	2	2	8L	5

Reference Literature:

Service Ticket No. Remarks:

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GAMMA
20 API Gamma Ray Units 60

NEUTRON
40 API Neutron Units 140

DEPTH 100 FEET

ONE MINUTE INTERVAL MARKER

CALIPER LOG

COMPANY U.S.G.S.
WELL L.V.C.H.-1
FIELD LONG VALLEY
County MONO State CAL
Location NW CORNER OF; Sec. 19 Twp. 3S Rge. 29E
COUNTY MONO FIELD LONG VALLEY STATE CALIFORNIA
Permanent Datum G.L. Elev. 6980' Above Perm. Datum
Log Measured from TOP OF PIPE 1.5' Above Perm. Datum
Drilling Measured from TOP OF PIPE
Other Services: FF/MSG TEMP. NEUTRON
Date 11-2-73
Run No. ONE
Type Log GN-G
Depth-Driller 9971
Depth-Logger 9961
Bottom Logged Interval 9961
Top Log Interval CLAY BASE MUD
Type Fluid in Hole N.C.
Salinity, PPM Cl 1700' @ 100'
Density --
Level FULL
Max. rec. temp. deg. F 162° @ 8HT
Equip. Location 9017 I. BASIN
Recorded By MR. MERKEL & MR. LEWIS
Witnessed By

Fold Here

Service Ticket No. 74728 Remarks: DRIFTED - NOTE CSG. CHECK

Change in Mud Type or Additional Samples

Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller									
Type Fluid in Hole									
Dens. / Visc.									
ph / Fluid Loss									
Source of Sample									

					EQUIPMENT DATA			
R_m @ Meas. Temp.	@ °F	@ °F	Run No.	Tool Type and No.	Pad Type	Tool Position	Other
R_{mf} @ Meas. Temp.	@ °F	@ °F	ONE	PUMP DOWN	D.C.	CALIPER	
R_{mc} @ Meas. Temp.	@ °F	@ °F					
Source: R_{mf} / R_m							
R_m @ BHT	@ °F	@ °F					
R_{mf} BHT	@ °F	@ °F					
R_{mc} BHT	@ °F	@ °F					

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CALIPER
Average Diameter Inches

CALIPER
Average Diameter Inches
0" 10"

DEPTH 100 FEET

ONE MINUTE INTERVAL MARKER
BIT SIZE 3.65"

DEPTH 100 FEET

TEMPERATURE IN DEGREES FAHRENHEIT

DEPTH 100 FEET

GEOPHYSICAL LOGS OF LVCH-1, LONG VALLEY CALDERA, MONO COUNTY, CALIFORNIA