

GL02867-4 of 10

GEOTHERMAL DIVISION



WELL 72-7 FEDERAL
 FIELD CARSON LAKE
 COMPANY UNION OIL CO.
 COUNTY CHURCHILL
 STATE NEVADA
 LOCATION 734'S, 962' W of NE CORNER of Sec. 7
 T17N, R30E EL. 3916'
 KB EL. 3921' T.D. 2892'
 BHL - (vertical hole)
 SPUD DATE AUGUST 6, 1981
 COMPLETION DATE AUGUST 19, 1981
 DRILLING CONTRACTOR SOUTHWEST DRILLING
 ENGINEERS ALLISON, BRAY
 GEOLOGISTS BEHRMAN

DATE	INTERVAL	SERVICES	TEMPERATURES	TC
8/19/81	701'-2880'	DIL - SFL, S-P, G.R.	222, 222, 222 °F	5.1 min
8/19/81	701'-2872'	SONIC, S-P	230, 230, 230 °F	5.2 min
8/19/81	701'-790'	F.D.	191, 192 °F	7.2 min
8/19/81	50'-790'	CNL, G.R., CALIPER	191, 192 °F	7.1 min
8/19/81	701'-2887'	DIPMETER, CALIPER	244, 245 °F	5.5 min
9/1/81	0'-T.D.	TEMPERATURE LOG (by U.O.C.)		13 days

PROPRIETARY

CASING DIA	RECORD INTERVAL	REMARKS
13 3/8"	0'-38'	Good Returns
9 5/8"	0'-236'	Good Returns
7"	0'-701'	Poor Returns; top cement job required
2 1/8"	0'-T.D. (tubing)	

DATE	TIME	RIG	TEST	WHP	FLP	ΔP	FLT	ORIFICE	RATE
REMARKS									
REMARKS									

EXPLANATION

DRILLING	LITHOLOGY	MINERALS	PHYSICAL-CHEMICAL
NB NEW BIT	SHALE; ARGILLITE (MICROGRAYWACKE)	Q QUARTZ	T TEMPERATURE
RRB RERUN BIT	MUDSTONE	C CALCITE	BH BOTTOM HOLE
CB CORE BIT	GRAYWACKE SANDSTONE	E EPIDOTE	DH DOWN HOLE
DD DIRECTIONAL DRLG.	CONGLOMERATE	CH CHLORITE	FL FLOW LINE
BW BIT WEIGHT	LIMESTONE	F FELDSPAR	BU BOTTOMS UP
DEV DEVIATION	DOLOMITE	M MICA	TC TIME SINCE CIRC
KOP KICK OFF POINT	EVAPORITE	Z ZEOLITE	P PRESSURE
DST DRILL STEM TEST	CHERT	CY CLAY	WH WELL HEAD
LC LOST CIRCULATION	SERPENTINITE	O OPAL (CHALCEDONY)	SI SHUT IN
PB PLUG BACK	GREENSTONE	L LIMONITE	PPM PARTS PER MILLION
DP DRILL PIPE	METAMORPHIC	H HEMATITE	MW MUD WEIGHT
DC DRILL COLLAR	UNCONSOLIDATED GRAVEL & SAND	P PYRITE	CR CIRCULATION RATE
KB KELLY BUSHING	SILTSTONE	S SPHALERITE	VIS VISCOSITY
		G GALENA	WL WATER LOSS
		Cu Copper Minerals (Sulfates & Carbonates)	GP GALVANIC PROBE
			CHL CHLORIDES

DEPTH FEET	PENETRATION X FT/HR. □ MIN/FT OVER FLOW SCALE PRIMARY SCALE	LITHOLOGY		DESCRIPTION	PHYSICAL - CHEMICAL		MISC.
		PRIMARY LITHOLOGY	SECONDARY MINERALS		TEMP X °F □ °C	FLOWLINE SUCTION SURVEY (BH) MAX READ THERMO H ₂ S PPM CO ₂ PPM	
50							
100	ESTIMATED BY DRILLER			0-240' interbedded clay, siltstone, sandstone and conglomerate (gravel); (all rocks are poorly consolidated); clay: green color; poorly consolidated; v. fine grained siltstone: l. green, white, tan colors; v. fine gr. sandstone: l. green to tan color; gr. size mainly <1.0 mm; silica cement; subangular to subrounded, framework clasts consist primarily of quartz & volcanics			@ 40' bit # 1-RR 17 1/2" STC 587 40'
200	GEOLOGICAL DIV @ 240' 8/7/81 SCALE CHANGE			gray to green gravels: red color; fine sand to gravel size; subangular; composed primarily of volcanic			@ 243' bit # 2RR 12 1/4" STC DTJ 203/15
300				240'-500' interbedded shale, siltstone,			

