LITHOLOGIC LOG

	Project:	hermex				
	Hole:	22-2				
Elevation:	6140	Date Drilled	i: <u>11/14/83</u>			
Location:	NW of NW Sec 2 T26S R7W	Method: Ch	urn and rotary			
Geologist:	Huntsman/Deymonaz					
	_		·			
Depth (m)	<u>D</u>	escription				
300 - 408 (91.5- 124		with 30% dark miner itic to hypidiomorph orthoclase (30%). Motite. Minor resorb	als ic. Abundant inor boroblende			
408 - 793 (124 -241.)	clinopyroxene in a fel intermediate compositi above. Minor calcite trace magnetite (1%) a	Gabbro Porphyry and Monzonite - Medium gray to light pink gray. Minor fragments and phenocrysts of labradorite and clinopyroxene in a felted plagioclase matrix mixed with intermediate composition volcanics related to the monzonite above. Minor calcite (4%), talc (5%), and quartz (3%), trace magnetite (1%) and possible epidote (1%). Weak, trace of hematite staining in zones and around some grains.				
	(432–436) Tholeiitic dense, glassy with a h	basalt, black, olivin ardness of about 7.	ne, poor, very			
793 - 802 (241.7-244		ric logs).				
802 - 890 (244.5-271	Zeolitic Tuff (Miocene 3) containing 30% lithic and plagioclase with t Matrix has been almost mineral clinoptilolite	fragments and phenoci race to minor quartz completely converted	ysts of sanidine and biotite.			
890 - 985 (271.3-300.3	Tuff of Albinus Canyon 3) weakly welded, crystal alteration of feldspar and talc. The tuff comendesine, 1-2% quartz, glass shards.	poor ash flow tuff. to kaolinite. Moder tains 2-5% notassium	Strong argillic ate kaolinite			
985 - 1020 (300.3 - 310.9	Basalt - Black with moo	e grains, verv dense	ing around and hard.			

LITHOLOGIC LOG

	Project: Thermex		
•	Hole:	22-2	
Elevation:	<u> </u>		Date Drilled:
Location:	·		Method:
Geologist:			Gamma:
Depth (m)		Description	on
	Oligocene). Dense ashflow tuff with (some altered), hor trace sanidine and indicate an approximate and proximate and proximat	ly welded, 40% phenocr nblende (5- magnetite. mate age of	Bullion Canyon Volcanics crystal rich, vesicular ysts of plagioclase (25%) 10%), biotite (1–4%), and K–Ar and fission–track ages `27 m.y. (Steven & others,
1320 - 1722 (402.4 - 525)	intermediate composituffs containing more plagioclase and pyrotuffs were called War Canyon volcanics by Volcanics of Wales (ition lava derately ab oxene, and ales Canyon Casken and Canyon is h	gocene) – Reddish gray, flows and welded ashflow undant phenocrysts of sparse biotite. The welded tuff member of the Bullion Shvey (1975), but the name ere extended to cover the ows that overlie and underlie

1722 2445 (525-745.4) samples recovered.

Needles Range Formation (Oligocene) - Light gray to white, approximately 40% phenocrysts in a welded matrix of devitrified glass shards and flattened pumice. Phenocrysts of plagioclase (20-25%), hornblende (3-5%) biotite (1%). In contrast to the overlying densely welded (elec. log) and crystal-rich Three Creeks Tuff Member, the Needles Range Formation is finer grained and contains moderate amounts of pumice.

the tuffs from 1380' to 1690'. Poor circulation, no good

1742-1758 Gabbro, dark brown gray crystal lithic flow consisting of phenocrysts of calcic plagioclase (25-40%), hornblende 5%, biotite 1%, trace magnetite. Very hard slow drilling but unit must also be highly fractured. No oxidation. Minor soft red brown clay also.

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•	Project:	Inermex		
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ocation:		-	Method:	
Geologist:			Gamma:	
Depth (m)	-	Descriptio	, n	

2445-4000

Volcanics at Dog Valley (Oligocene) (30 m.y.) - Medium gray (745.5-1219.5)heterogeneous assemblage of intermediate composition lava flows, tuff breccias, and local and regional ash flow tuffs. The dacite flows range from porphyritic to aphanitic with phenocrysts of plagioclase (20-50%), hornblende (5%), biotite (2%), magnetite (2%) and pyroxene. Prophylitic alteration of the lower part of the Bullion Canyon Volcanics has produced epidote, sericite, clays, calcite after plagioclase, and magnetite, chlorite and biotite after amphibole, Moore and Sanber (1979).

> 2890-2990 Ash Flow Tuff - Medium pink densely welded tuff (881-911.5) with lithic fragment of plagioclase, trace biotite hornblende and magnetite lower 40' of flow is jet black vitrophyre.

3100-4000 Minor amounts of bright blue green clay in (945.1-1219.5) dacite flows, argillic alteration of some phenocrysts and minerals.