

INTER-OFFICE MEMORANDUM

SUBJECT: Conductivity Measurements and Heatflow Calculations, DATE February 22, 1979
 McCoy, Nevada

TO: H. J. Olson

cc: A. L. Lange
 V. Handley

FROM: H. D. Pilkington

Selected rock chip samples from some of the 1978 thermal gradient holes were sent to SMU for conductivity measurements. The following summarizes the results and the changes to be made on existing thermal well maps, heatflow maps, thermal gradient maps, depth to 200°C isotherm maps and on the thermal data stored on computer tapes.

<u>Hole #</u>	<u>Location</u>	<u>Assumed K</u>	<u>Measured K</u>	<u>Q</u>
864- 1	not drilled			
- 2	SESW S10 T22N R40E	5.0*	----	2.2
- 3	SESE S5 T22N R40E	5.0	----	9.8
- 4	NWNE S32 T23N R40E	5.0*	----	15.2
- 5	SESE S28 T23N R40E	4.7*	----	2.4
- 6	SESW S22 T23N R40E	4.7*	----	3.6
- 7	NWNW S21 T23N R40E	5.0*	----	7.2
- 8	SWSW S20 T23N R39E	5.0	----	11.7
- 9	NENE S25 T23N R40E	6.0*	----	6.6
-10	SWSE S17 T23N R40E	5.0*	----	4.2
-11	SWSE S6 T22N R40E	5.5	----	13.0
-12	not drilled			
-13	NESW S15 T23N R40E	6.5*	----	4.0
-14	SWSE S9 T23N R40E	6.0	----	15.1
-15	NESE S8 T23N R40E	5.0	----	8.1
-16	NENE S7 T23N R40E	7.8*	----	8.8
-17	SWNW S4 T23N R40E	3.5	----	6.8
-18	not drilled			
-19	NWNE S2 T23N R40E	3.4*	insufficient sample	2.6
-20	SESE S11 T23N R40E	5.0	4.81	1.8
-21	SWNE S33 T23N R40E	5.0	4.66	3.8
-22	NWNW S3 T22N R40E	4.0*	----	4.4
-23	SWSE S33 T24N R40E	3.5	4.95	5.1
-24	SWSW S33 T24N R40E	6.0	5.23	9.9
-25	SESW S5 T23N R40E	5.0	----	6.4

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<u>Hole #</u>	<u>Location</u>	<u>Assumed K</u>	<u>Measured K</u>	<u>Q</u>
864-26	NESE S34 T24N R39E	3.0	----	0.9
-27	NWNW S12 T23N R39E	5.0*	insufficient sample	6.2
-28	SWNW S7 T23N R40E	6.0	7.58	23.3
-29	SESW S8 T23N R40E	8.0	7.98	4.2
-30			not drilled	
-31	NWSE S13 T23N R39E	6.0**	3.48	5.6
-32			not drilled	
-33	NWNW S20 T23N R40E	8.0**	6.51	15.0
-34	SENW S29 T23N R40E	6.0	----	11.8
-35			not drilled	
-36			not drilled	
-37			not drilled	
-38			not drilled	
-39	NWNW S31 T27N R40E	6.5	5.73	5.5
-40	SWSW S33 T23N R40E	5.0	----	14.1
-41	NWNW S6 T22N R40E	5.5*	----	5.0
-42			not drilled	
-43			not drilled	
-44			not drilled	
-45			not drilled	
-46	NENE S7 T22N R40E	6.0	insufficient sample	15.1
-47	NESE S8 T22N R40E	5.7**	4.46	23.5
-48	SESW S9 T22N R40E	5.0	6.96	12.8
-49	SWSE S17 T22N R40E	4.1	----	8.7
-50	SESE S13 T22N R40E	5.0**	2.98	7.9
-51	SESE S24 T22N R39E	5.0	----	5.8
-52	NWSW S26 T22N R39E	5.0	----	2.8
-53	NENE S6 T23N R40E	5.0	----	6.2

*assumed values revised to agree with measured K values in similar rock types.

**for heatflow calculation, have used the assumed values which are thought to be better than measured values due to sample contamination.

Deane

H. D. Pilkington

HDP/c

AMAX

<u>Drill Hole #</u>	<u>Depth</u>	<u>Bulk Conductivity</u>
860- 5	110	insufficient sample volume
860- 9	150	5.83 *
860-11	300	insufficient sample volume
864-19	90	insufficient sample volume
864-20	150	4.81
864-21	140	4.66
864-23	150	4.95
864-24	110	5.23 *
864-27	100	insufficient sample volume
864-28	150	7.58 *
864-29	150	7.98
864-31	140	3.48
864-33	110	6.51
864-39	140	5.73 *
864-46	140	insufficient sample volume
864-47	150	4.46 *
864-48	150	6.96 *
864-50	140	2.98

* possibly insufficient sample volume for accurate reading

MEMORANDUM

SUBJECT: Actions taken to date - Drilling Permits

Date: January 15, 1979

TO: Dean Pilkington

FROM: Larry Hall

<u>AMAX Project</u>	<u>Agency No.</u>	<u>No. & Type Holes</u>	<u>Expiration Date</u>	<u>Action Required</u>	<u>Action Taken</u>
Grand View 844	ID-1-Geo-8-2	9-150mΔT	7/5/79	Extend 1 yr.	*
McCoy 864	NV-060-34	3-150mΔT	10/10/78	File NOC	NOC filed
	NV-030-51	15-150mΔT	10/10/78	File NOC	NOC filed
	NV-060-Gen-8-02	4-150mΔT	30/4/79	File NOC	NOC filed
	NV-030-57	21-150mΔT	30/4/79	File NOC	NOC filed - release receive
Tuscarora 860	G-NV-010-77-05	12-150mΔT	10/10/78	File NOC	NOC filed
	G-NV-010-78-06	15-150mΔT	15/7/79	Extend 1 yr.	*
Bully Creek 737	State of Oregon 29	3-610mΔT	none	none	none
	OR-030-NI-8-1	3-610mΔT	1/12/78	Extend 1 yr.	Extended to 1/12/79
Thermo-Blk-Mtn. 883	U-040-G0-32	1-610mΔT	15/10/78	Extend 1 yr.	Extended to 15/10/79
	U-040-G0-36	8-150mΔT	30/4/79	Extend 1 yr.	*
	U-040-G0-37	3-610mΔT	30/4/79	Extend 1 yr.	*
	State of Utah	6-150mΔT	30/9/78	Extend 1 yr.	Extended to 20/5/79
	State of Utah	6-610mΔT	26/3/78	Extend 1 yr.	Extension requested - no response
Burning Stone 821	U-040-G0-35	2-610mΔT	30/4/79	Extend 1 yr.	*
	U-040-G0-34	6-150mΔT	30/4/79	Extend 1 yr.	*
Fillmore 819	U-050-G0-49	2-610mΔT	1/10/78	Extend 1 yr.	Extension denied
Twin Peaks 806	AGS-69-U-34427	1-610mΔT	22/12/78	Lease Dropped	None

*These extensions will be applied for as the present expiration date nears.

*Larry Hall*Larry Hall
LH/w