AMAX EXPLORATION, INC.

A BUBBIDIARY OF AMAX INC.

222 S.W. HARRISON STREET . SUITE G-10 . PORTLAND, OREGON 97201 . (503) 243-1022 OR 1023

October 27, 1975

Mr. Vernon C. Newton, Jr. Geologist - Petroleum Engineer Department of Geology & Mineral Industries 1069 State Office Bldg., Portland, Oregon 97201

Dear Mr. Newton:

In reply to your letter of October 14, 1975 regarding status of our temperature gradient drilling in the following areas:

- 1. La Grande area --- As stated in my letter of July 14, 1975, we completed a total of 14 out of the proposed 18 temperature gradient holes. On July 15, 1975 I requested, by telephone, permission to carry out some additional temperature gradient drilling; however, these holes have not been drilled, and AMAX does not plan to drill them at the present time.
- 2. Vale area --- In my letter of February 18, 1975, I requested a permit to drill a minimum of 36 temperature gradient holes in the Vale area. The permit was approved on March 7, 1975. AMAX EXPLORATION, INC. hereby notifies you that total of 36 temperature gradient drill holes in the Vale area have been completed and abandoned. The location, depth, geologic log and water zones are shown in Table I.
- 3. Beulah area --- On February 26, 1975 I requested a permit to drill a minimum of 8 temperature gradient holes in the Beulah area. The permit was issued on March 10, 1975. AMAX EXPLORATION, INC. hereby notifies you that a total of 14 holes have been drilled and abandoned in the Beulah area. All holes were located on federal lands. The location, depth, geologic log and water zones are shown in Table II.

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- 4. Burns area --- On March 10, 1975 we requested a permit to carry out a drilling program for a minimum of 8 temperature gradient holes in the Burns area. The permit was issued on March 26, 1975. AMAX EXPLORATION, INC. hereby notifies you that a total of 13 holes have been drilled and abandoned in the Burns area. All holes except one were located on federal lands. The location, depth, geologic log, and water zones are shown on Table III.
- 5. Paisley area --- You were notified by letter on July 14, 1975 that AMAX EXPLORATION, INC. Thad cancelled the drilling program in the Paisley area. No change in status on this project.

The holes have all been abandoned as described in our permit request. We may elect to come back at a later date and re-log some of the holes; however all sites will be restored to the original condition when the log has been completed.

Sincerely,

H. Dean Pilkington, District Geothermal Geologist

HDP:mf

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Table I.

Drill Hole	Location	Lithology	Depth	H ₂ O at Depth
V-1	SW% NW% 26 T18S R45E	Tuffaceous siltstone	50m	45m
V-2	SE눅 NE눅 6 T19S R45E	Tuffaceous sandstone, thin conglomerates	30m	19m ,
V-3	NW눅 NW눅 29 T19S R45E	Tuffaceous siltstone and sandstone	50m	none
V-4	NW늄 SE늄 35 T19S R45E	Tuffaceous siltstone and sandstone	50m	none
V-5	NEZ NEZ 9 T19S R46E	Tuffaceous siltstone and sandstone	50m	none
V-6	NE눅 NE눅 32 T19S R46E	Tuffaceous siltstone, congl. tuffaceous ss	5 0 m	none
V-7	NWৡ SWৡ 17 T20S R46E	Sand and gravel	21m	14m
V-8	SE% SE% 12 T20S R44E	Tuffaceous siltstone and sandstone	50m	none
V-9	SW% SE% 29 T20S R45E	Tuffaceous ss, basalt, tuffaceous silt	50m	none
V-10	SW1 NW1 6 T21S R45E	Basalt, tuffaceous silt, basalt	50m	noné
V-11	SE컵 NW컵 36 T21S R45E	Basalt with interflow scoria & cinders	30m	none
V-12	SE컵 NE컵 32 T19S R46E	Tuffaceous ss, congl. and siltstone	30m	none
V-13	SE컵 SW컵 32 T19S R46E	Tuffaceous siltstone, minor congl.	30m	none
V-14	NE북 NW북 5 T20S R46E	Tuffaceous siltstone minor congl.	30m	none
V-15	SW눛 SW눛 5 T20S R46E	Tuffaceous congl., and siltstone `	30m	none
V-16	SE눅 SE눅 6 T20S R46E	Tuffaceous siltstone	30m	none
V-17	NE% NE% 12 T205 R45E	Tuffaceous siltstone and congl.	30m	none
v-18	SW% SW% 6 T20S R45E	Tuffaceous siltstone and congl.	30m	none

Table I cont'd.

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NV-1	S₩¥	S₩¥	11	T17S	R44E	Tuffaceous	siltstone minor tuffaceous congl.	38m	37m
NV-2	N₩¥	NEϟ	18	T17S	R44E	Tuffaceous	siltstone	50m	24m
NV-3	SW¥	S₩¥	29	T16S	R44E	Tuffaceous	sitlstone	50m	none
NV-4	NE¼	NE ¹ 4	10	T16S	R43E	Tuffaceous	siltstone and sandstone	50m	none
NV-5	NE¼	S₩¥	27	T15S	R43E	Tuffaceous	sandstone some tuffaceous sh	50m	none
NV-6	SEϟ	SE¼	4	T16S	R44E	Tuffaceous	siltstone some tuffaceous congl.	50m	40m
NV-7	N₩¥	S₩ϟ	31	T15S	R45E	Tuffaceous	siltstone some congl.	50m	12m
NV-8	NE ¹ 4	NE¼	20	T15S	R44E	Tuffaceous	ss, siltstone	50m	none
NV-9	NE¼	NE ¹ 4	32	T16S	R43E	Tuffaceous	siltstone	50m	30m
NV-10	SE ¹ ₄	N₩¼	22	T17S	R43E	Terrace gra	vel, tuffaceous siltstone	4 4m	none
NV-11	N₩¼	S₩¼	33	T17S	R44E	Tuffaceous	siltstone, sandstone & minor congl.	.50m	none
NV-12	SE¼	SEϟ	25	T16S	R44E	Tuffaceous	siltstone and minor congl.	50m	none
NV-13	N₩¥	SE¼	2	T17S	R45E	Tuffaceous	siltstone and shale	50m	none
NV-14	SE¥	S₩¥	23	T17S	R45E	Tuffaceous	siltstone and sandstone	50m	none
NV-15	S₩¥	SE¼	4	T18S	R45E	Tuffaceous	siltstone and sandstone	50m	4 3m
NV-16	S₩¥	NEϟ	5	T18S	R46E	Tuffaceous	siltstone and sandstone	5 0 m	19m
NV-17	NW ¹	NE₺	25	T17S	R42E	Tuffaceous	siltstone	50m	none
NV-18	NE¼	S₩¼	13	T18S	R43E	Tuffaceous	siltstone basalt	50m	none

Tab	le	II.
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Drill				
HOle	Location	Lithology	Depth	H ₂ O at Depth
B-1	NWৡ NWৡ 17 T20S R38E	Terrace gravel, tuffaceous siltstone, ss basalt flow	50m	none
B-2	SE¼ SW¼ 10 T20S R37E	Valley fill, basalt flows	50m	none
B-3	SE눛 SW눛 18 T19S R38E	Tuffaceous siltstone basalt flows	50m	15m
в-4	SW눅 SE눅 25 T18S R37E	Tuffaceous siltstone and diatomite	50m	12m
B-5	SE¼ SW¼ 15 T18S R37E	lag gravel fuffaceous siltstone	50m	none
в-6	SW눅 SE눛 12 T18S R30E	Tuffaceous siltstone, sandstones, tuffs	50m	none
B -7	NW늄 SE늄 29 T19S R37E	Tuffaceous diatomite	5 0 m	15m
B-8	NE士 SW士 4 T19S R37E	Alternating basalt and tuffs	37m	17m
в-9	SE눛 SE눛 11 T20S R36E	Diatomite and tuffaceous siltstone	50m	15m
в-10	NE¼ NE¼ 21 T19S R36E	Terrace gravel, tuffaceous siltstone	50m	none
B-11	NE눛 SW눛 27 T18S R36E	xtl tuff tuffaceous siltstone	35m	none
B-12	SE눛 SE눛 25 T17S R36E	fractured basalt	35m	9m
B-13	NE눅 NE눅 11 T19S R38E	Basalt flows, tuffaceous siltstone	50m	none
B-14	SW눛 SE눛 7 T195 R37E	Basalt tuffaceous siltstone basalt	50m	12m
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Table	III.	

Drill Hole	Location	Lithology	Depth	H ₂ O at Depth
Bn-1	SW눅 NW눅 23 T22S R31E	Phyolitic welded tuff, tuffaceous siltstone	50m	none
Bn-2	SW4 SW4 34 T21S R31E	Rhyolitic welded tuff, tuffaceous siltstone	50m	none
Bn-3	SE¼ SW¼ 31 T22S R32E	Lake sediments siltstone and shale	5 0 m	lm
Bn-4	SW4 NW4 20 T22S R32E	Welded tuff, tuffaceous siltstone	50m	none
Bn-5	SW1 NE1 6 T22S R32E	Welded tuff tuffaceous siltstone	5 0 m	none
Bn-6	NE¼ NE¼ 15 T22S R32E	Tuffaceous siltstone	50m	none
Bn-7	NW¼ NW¼ 21 T22S R33E	Tuffaceous siltstone	50m	none
Bn-8	NW눅 NW눅 14 T21S R31E	Welded tuffs tuffaceous siltstone	5 0 m	none
Bn-9	SE눅 NE눅 8 T21S R32E	Boulders basalt flows	50m	none
Bn-10	NW북 SW북 26 T21S R32E	Basalt flows, tuffaceous siltstone	5 0 m	none
Bn-11	NE¼ SE¼ 32 T21S R32½	E Welded tuff tuffaceous siltstone	50m	none
Bn-12	NE눅 SE눅 14 T22S R30E	Welded tuff tuffaceous siltstone	50m	none
Bn-13	NW ¹ SW ¹ 26 T21S R30E	Welded tuff tuffaceous siltstone tuffs	50m	none

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