CONFUSION PROJECT MILLARD COUNTY, UTAH

LOCATION AND ACCESS: The project site is located in west-central Utah, approximately 130 miles southwest of Provo. The site is reached from State Highway 50 via graded county roads. The site consists of two separate parcels totalling 15 sections.

<u>LEASE POSITION:</u> T17S, R15W, Sections 19, 20, 22, 27, 28, 29, 30, 33 and 34

T18S, R15W, Section 3

T18S, R14W, Sections 3, 8, 9, 10 and 17

GEOTHERMAL AND GEOLOGIC DESCRIPTION: Heat flow values, ranging from 4.4 HFU to 10.2 HFU, and thermal gradients, ranging from 147° C/km to 319° C/km, along with high Cl concentrations in ground water and numerous warm springs near the site, indicate a highly active hydrothermal system at shallow depth. The project site overlies two major range front faults forming the eastern and western boundaries of White Valley.

ENERGY MARKETING POTENTIAL: The project site lies within 120 miles of the Provo-Spanish Fork-Orem metropolitan area. The major agricultural center of Delta, which relies entirely on electrical pumping for irrigation, lies 40 miles to the east of the project site.

APPENDIX F. CONFUSION

<u>LOCATION</u>: The property consists of two parcels, west of Delta, which are centered on 113° 30' WLong., 39° 16' NLat. (T17S, R15W) in the Basin and Range Province of western Utah.

LEASE POSITION: Pending:

T17S, R15W Sections 19, 20, 22, 27, 28, 29, 30, 33 and 34 T18S, R15W Section 3 T18S, R14W Sections 3, 8, 9, 10 and 17

AVAILABLE DATA: Figure F-1: Several high heat flow values, ranging from 4.4 to 10.2 HFUs, have been measured in the area. Tule Spring to the north of the lease position is a known warm spring. Several other warm springs occur in the Tule Valley north and east of the lease position. These springs and surface water in the area display high chloride concentrations.

GENERALIZED GEOLOGY: The southeastern lease position (Figure F-1) overlies the western range front fault of the House Range. Several thousand feet of displacement have occurred along this fault exposing Cambrian sediments. Tertiary and Quaternary volcanic rocks are present in the area. Chalk Knolls, which parallels the House Mountains and divides the northwestern lease position, was caused by recent tectonic activity and may be representative of a minor vent. However, detailed field examination is necessary for more exact evaluation.

ASSESSMENT WORK COMPLETED: In April 1980 initial exploration was conducted which generated the data shown in Figure F-1. Preliminary work for the MX missile program has generated further data which should become available in the near future. No subsequent work has been accomplished.

PROPOSED ASSESSMENT WORK: Assessment should be coordinated with evaluation of other Utah properties and completed as soon as possible. One geologist performing a mercury survey and doing detailed geologic mapping could complete preliminary

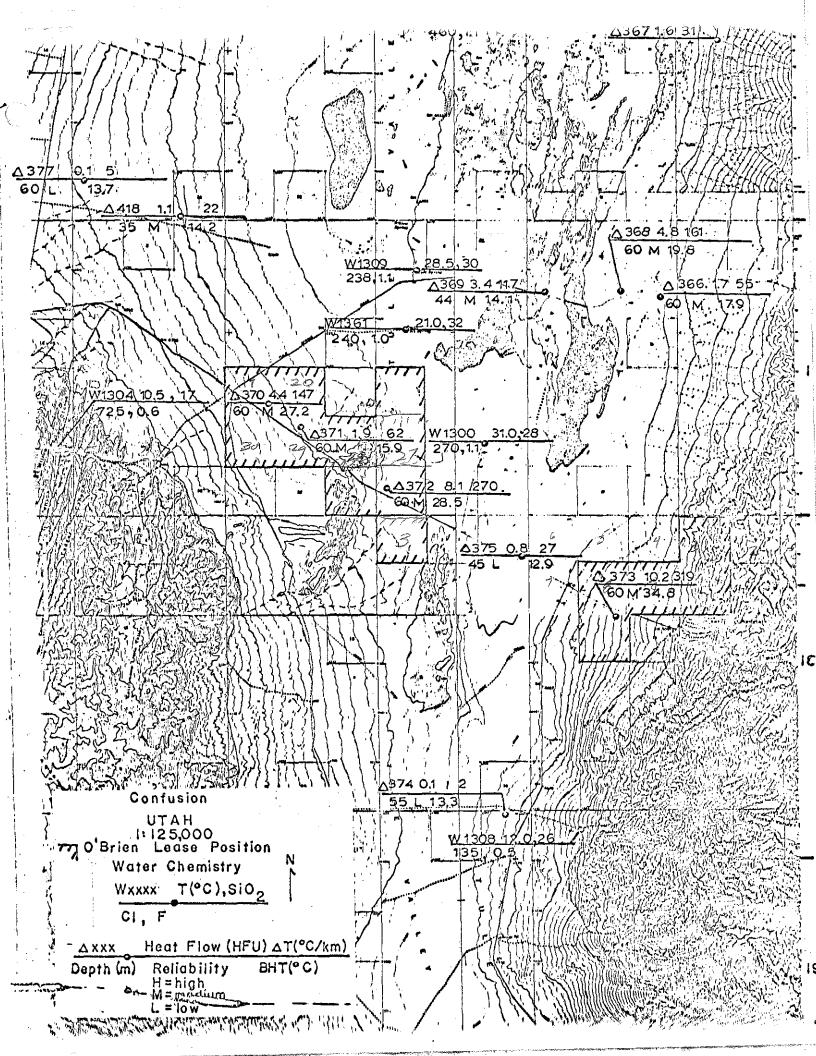
assessment in approximately thirteen days. This would include flagging 25-30 prospective drill sites. Available boreholes drilled for the MX program since initial exploration would be logged. Available aerial coverage could be used in mapping, or new coverage could be obtained at higher cost.

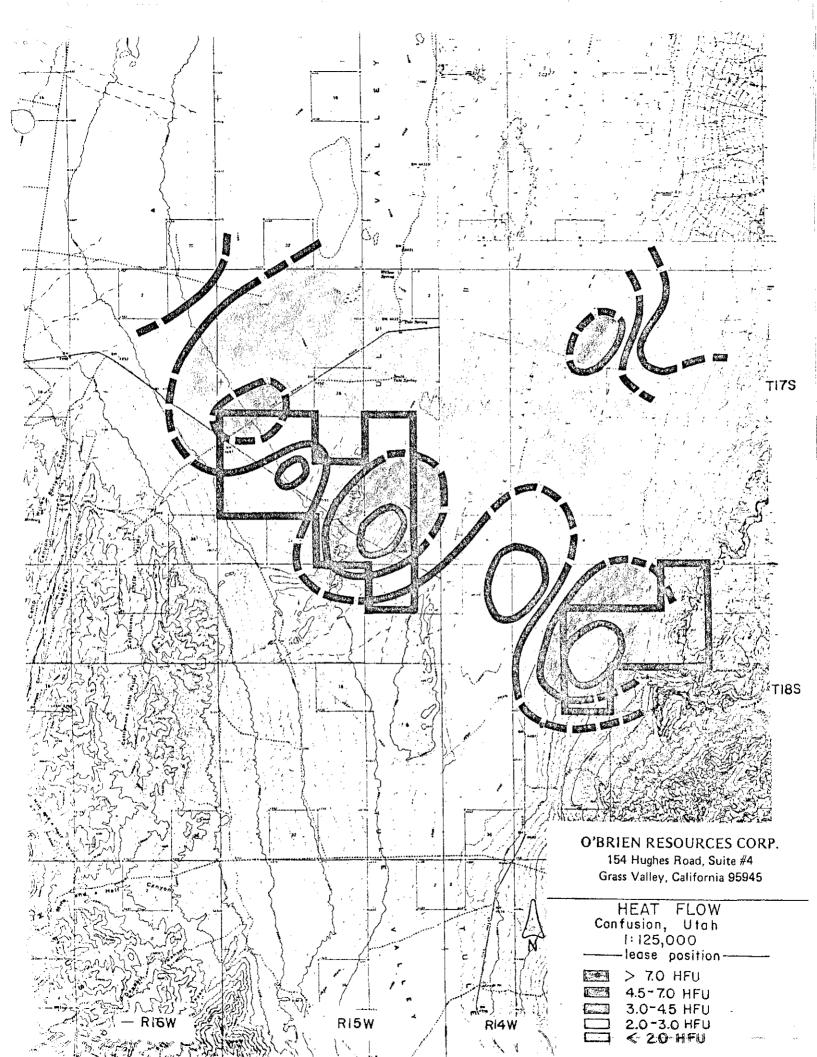
Drilling both prospects would take approximately five days, including two days' mobilization. Approximately three holes would be necessary for the southeastern prospect and two to three holes for the northwestern prospect. More holes may be necessary due to the complex heat flow pattern. Results of the mercury survey, geologic mapping and new MX borehole measurements will be necessary prior to drilling.

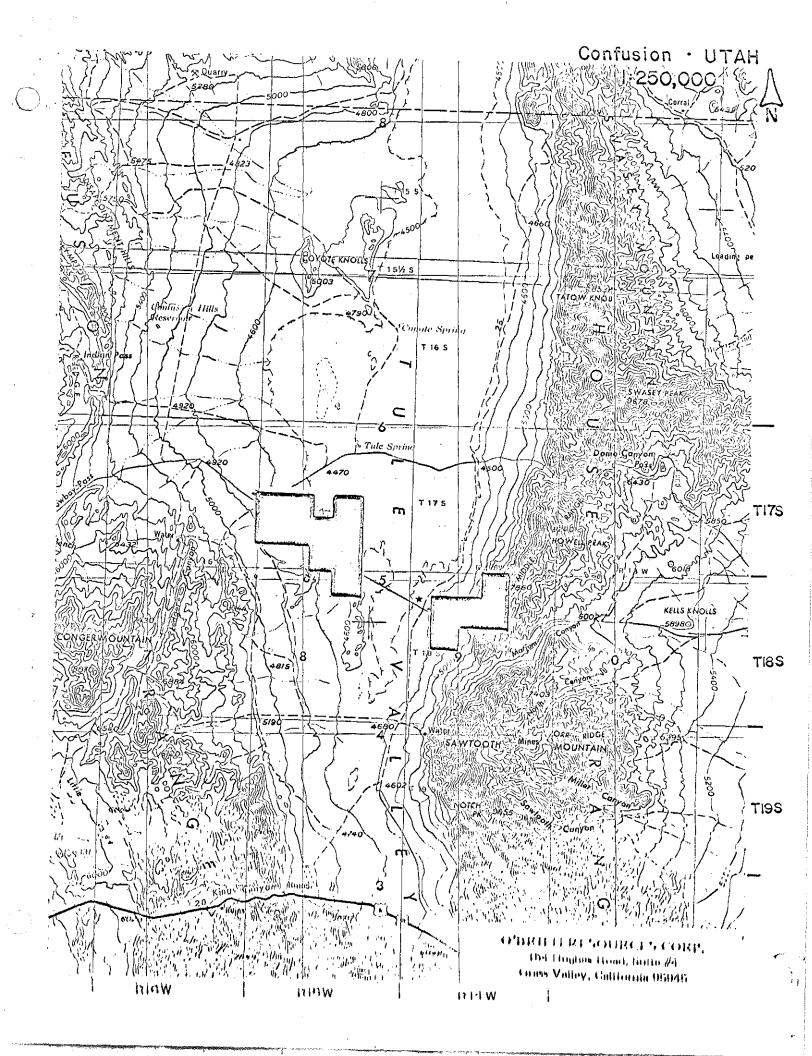
APPROXIMATE COSTS:

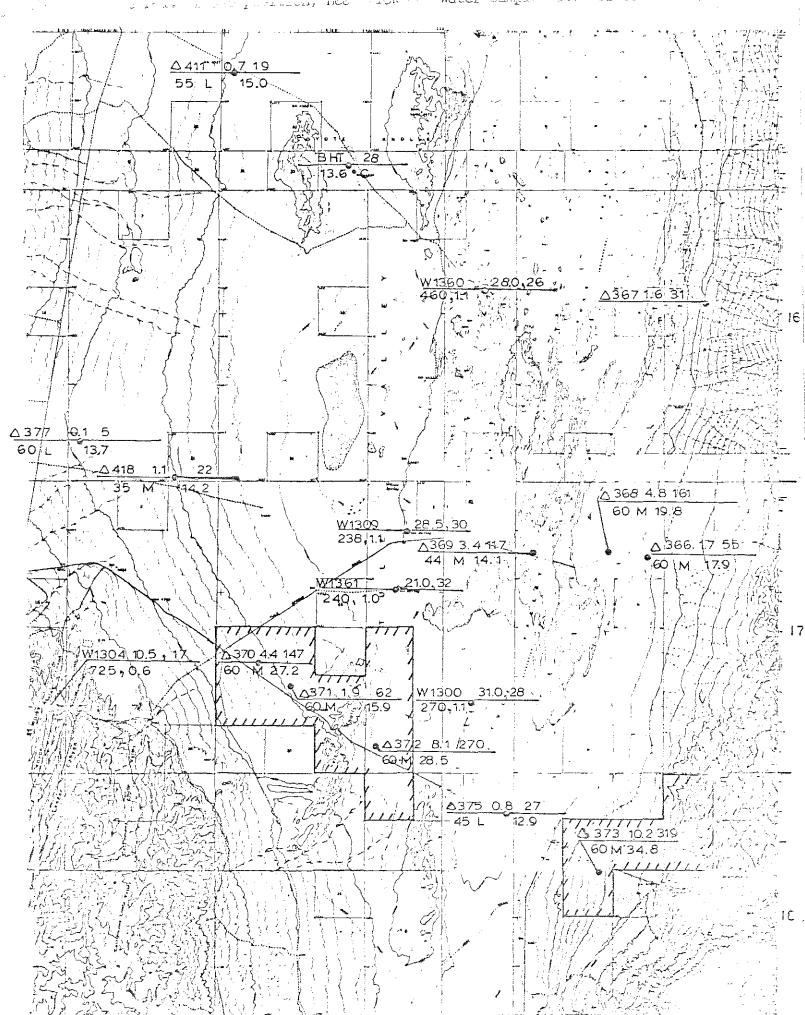
Geologic mapping, mercury survey and flagging (1 geologist x 13 days):

Salary	\$1,064		
Room and board	468		
Fuel	80		
Air photos, maps and drafting	60		
SUB-TOTAL	\$1,672		
Drilling six 150' holes			
(\$5.50/ft. + \$2.50 mob.)	\$7,200		
PVC, misc.	220		
Salary (1 geologist x 5 days)	409		
Room and board	80		
Fuel	40		
SUB-TOTAL	\$7,949		
TATAL	\$9,621		









in the	Heat Flow Do	ata
	Confusion	BHT at (m) O AT °C/Km H.F. W TCW
	Data Base	Hear Flow Dava
1		a. 19.71 at 57m
		b. 90 °c/km
		c 1.8 HFU at 2.0 TCU
2		a. 34.70°C at 60 m
		b. 315 °C/Km
		c 6.3 at 2.0
3		a 31.74 a+ 45 m
		b. Iso thermal
5		a. 21.48 at 60 m
		b. 25 °C/km
		c. 0.5 at 2.0 ACU
7	A 374	a. 13.39 at 55 m
		b. 150 thermal
		c. —
8.	A 375	a 12.89 at 45 m
		b 27°C/Km
		c 0.5 NFU at 2TCU
9	A 368	a. 19.77 at 60 m
	200	
		b. 161°C/km
		c 3.2 HFU at 2.0 TCU
10.	A 366	a. 17.93 °CA+ 60 m
		b. 55°C/km
		c. 1.1 HFU at 2.0 TCU
11	A 367	a 16.68 at 60
		6 31°C
		C 0.6 at 20 HFU

12	A 411	a. 14.99 at 55
		6 19°C/KM
		e. 0.4 ax 2.07ca
13	×	a. 13.64 at 28 m
		ь. —
		a, —
14	△369	a 14.12° car 44 m
		b 117°c/km
		c 2.3 at 2 TCu
15	△ 370	a. 27.23 at 60
		b. 147 oc/km
		c. 3.0 at 2.0 TCa
16.	A 372	a 28.45 at 60
		b 270 °C/Km
		c 5.4 at 2 TCU
17	A 371	a 15.90 at 60
		62 °C/km
		c 1.2 HFU at 2.0
18	1418	a 14.21 at 35
		b 22°c/km
		C 0.4 at 2.0 TOW
19	△ 377	a 13.73 at 60
		b 5 °C (km
		c on at 2.0 FCW
		2.0 11290