

GeothermEx, Inc.

SUITE 201
5221 CENTRAL AVENUE
RICHMOND, CALIFORNIA 94804

(415) 527-9876
CABLE ADDRESS GEOTHERMEX
TELEX 709152 STEAM UD

July 13, 1984

Mr. Jack Frost
Johnston Pumps
1775 E. Alan Avenue
Glendora, CA 91702

Dear Mr. Frost:

By request of **Mr. William Olson** of Steam Reserves Corporation, please find enclosed a summary of the chemical composition, including gases, of SRC Fish Lake Valley well #88-11.

Sincerely,

CKK mm

Christopher W. Klein,
Senior Geochemist

cc: Harry Olson

RECEIVED

JUL 16 1984

E & ME DIVISION

SUMMARY OF SRC #88-11 BRINE COMPOSITION¹

Specie	Concentration, mg/l ³						Overall Range
	Pressurized Sep.			Atmospheric Sep.			
	High	Ave	Low	High	Ave	Low	
CA	1.0	0.9	0.9	1.1	1.1	1.0	0.9-1.0
Mg	0.03	0.03	0.03	0.04	0.04	0.04	0.03-0.04
Na	697	681	666	764	747	729	666-764
K	40.6	39.7	38.8	44.9	43.9	42.9	39-45
HCO ₃	677	662	647	665	650	635	647-665
CO ₃	135	132	129	162	158	154	129-162
SO ₄	174	170	166	189	184	180	166-189
Cl	377	369	361	414	404	395	361-414
B	14.5	14.2	13.9	14.4	14.1	13.7	13.9-14.4
F	13.5	13.2	12.9	15.3	14.9	14.6	12.9-15.3
SiO ₂	232	227	222	234	228	223	222-234
TDS	2020	1975	1931	2167	2117	2068	1931-2167
S ⁼ (as H ₂ S)	0.27	0.27	0.28	-	-	-	0.27-0.28
pH	-	8.81	-	-	8.84	-	8.8

Non-Condensable Gases⁴

Total	.095	.068	.041	-% by wt in total flow
H ₂ S	2.54	1.25	1.25	-ppmwt in total flow
CO ₂	914	655	396	-ppmwt in total flow

Notes

1. Based on brine samples collected 1115 hrs and 1245 hrs, June 21, 1984, and 4 gas plus condensate samples collected from 1355 hrs to 1415 hrs, June 21, 1984.
2. SiO₂ by colormetry; TDS by summation; pH is value in brine after steam separation and cooling to ambient temperature; s⁼ does not include H₂S in NCGs.
3. Concentrations in brine corrected to pre-flash conditions, High, Ave and Low values represent uncertainty in percent steam at separation conditions, due to uncertain total fluid enthalpy. Values are based on enthalpies of 270, 290 and 310 BTU/lb, respectively.
4. High-Ave-Low defined as in note 3. H₂S represents combined H₂S in brine and steam; CO₂ represents CO₂ in steam only.