



E 14  
14-2

February 8, 1983

INTER-OFFICE CORRESPONDENCE / SUBJECT:

Sample from RHSU 14-2 Anulus

TO: T. S. Allen

FROM: S. D. Johnson

The sample which you forwarded to me has a dark brown to black color and is highly viscous. The following tests were made on the sample and it is concluded that the sample is drilling mud.

1. The sample is insoluble in petroleum based solvents. There is little if any petroleum based material in the sample.
2. The sample readily disperses in water yielding a suspended dispersed clay sized fraction.
3. Materials which did not remain in suspension included quartz, feldspar and biotite fragments (formation) and wood fibers (loss circulation material?) all of which were readily identifiable under the binocular microscope.

It would appear that drilling fluids are in communication with the annular space in 14-2.

SDJ:jp

*cont to surface?*



# Environmental Analysis Laboratories

2030 Wright Avenue  
Richmond, California 94804  
(415) 235-2633

CORPORATION (TWX) 910-382-8132

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## ANALYSIS REPORT

RH50 14-2?

Customer: Jake M. Rudisill  
Thermal Power Co.  
601 California Street  
San Francisco, CA 94108

Date: October 6, 1977

Samples Received: October 3, 1977

LFE Reference No.: 18100-2607

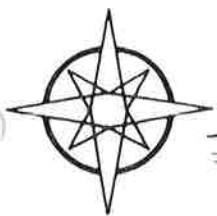
Purchase Order No.: \_\_\_\_\_

Analysis	Units	Gas sample 615-3-1
H <sub>2</sub>	% (by volume)	0.42
O <sub>2</sub>	% (by volume)	0.06
N <sub>2</sub>	% (by volume)	9.2
CO <sub>2</sub>	% (by volume)	78
H <sub>2</sub> S	% (by volume)	<0.01
CH <sub>4</sub>	% (by volume)	<0.01
H <sub>2</sub> O	% (by volume)	3

*Harry Gee*

Harry Gee  
Senior Chemist

Analysis are performed according to EPA or State of California recommended methods when applicable.  
LFE Environmental is a State of California Approved Laboratory for complete chemical, bacteriological,  
and bioassay analyses.



# AMTECH

Chemical Analysis — Consultation  
Research — Product Development

American Technical Laboratories, Inc.  
8909 Complex Drive — Suite F  
San Diego, California 92123  
(619) 560-7717

Phillips Petroleum Company  
655 East 4500 South  
Salt Lake City, Utah 84107

LABORATORY NO. 0627-83  
DATE OF REPORT 8/22/83  
DATE RECEIVED 8/1/83  
IDENTIFICATION Gas Sample #49915  
REQUEST Geothermal Gas Analysis

## METHOD

Gas Chromotography

## RESULTS

<u>Gas</u>	<u>Units</u>	<u>49915</u>
Helium	ppm Vol	<5
Hydrogen	ppm Vol	690
Methane	ppm Vol	27
Ethane	ppm Vol	<1
C <sub>3</sub>	ppm Vol	<1
C <sub>4</sub>	ppm Vol	<1
Argon	% Vol	*
Oxygen	% Vol	18.0
Nitrogen	% Vol	81.8
Carbon Dioxide	% Vol	.724

\*Insufficient Sample

Note this 1 liter bottle contains only ~ 50c of gas

Respectfully,

  
David H. Elgas  
Laboratory Director

BK 1302-12  
6978



CORPORATION

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RH50 14-2?

## ANALYSIS REPORT

Customer: Jake M. Rudisill  
Thermal Power Co.  
601 California Street  
San Francisco, CA 94108

Date: October 6, 1977Samples Received: September 30, 1977LFE Reference No.: 18100-2603

Purchase Order No.: \_\_\_\_\_

Analysis	Units	Gas sample 615-2-1
H <sub>2</sub>	% (by volume)	0.28
O <sub>2</sub>	% (by volume)	0.045
N <sub>2</sub>	% (by volume)	2.0
CO <sub>2</sub>	% (by volume)	83.0
H <sub>2</sub> S	% (by volume)	<0.01
CH <sub>4</sub>	% (by volume)	<0.01
H <sub>2</sub> O	% (by volume)	3.0

Harry Gee  
Senior Chemist

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