



# Chemex Labs Inc.

Analytical Chemists \* Geochemists \* Registered Assayers  
994 WEST GLENDALE AVE., SUITE 7, SPARKS,  
NEVADA, U.S.A. 89431  
PHONE (702) 356-5395

To: UNION OIL COMPANY OF CALIFORNIA  
UNION GEOTHERMAL DIVISION  
3576 UNOCAL PLACE, P.O. BOX 6854  
SANTA ROSA, CALIFORNIA  
95406

A8829139

Comments: ATTN: DANIEL L. CARRIER

## CERTIFICATE A8829139

UNION OIL COMPANY OF CALIFORNIA  
PROJECT :  
P.O.# : 480926

Samples submitted to our lab in Sparks, NV.  
This report was printed on 4-JAN-89.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	1	Rock Geochem: Crush,split,ring
217	24	Geochem:Ring only,no crush/split
218	8	Pulverize only - no crush/split
232	33	Total ICP digestion

\* NOTE 1:

Code 1000 is used for repeat gold analyses  
It shows typical sample variability due to  
coarse gold effects. Each value is  
correct for its particular subsample.

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
592	33	SiO2 %: Whole rock	ICP-AES	0.01	99.00
594	33	Al2O3 %: Whole rock	ICP-AES	0.01	99.00
586	33	Fe2O3(total) %: Whole rock	ICP-AES	0.01	99.00
593	33	MgO %: Whole rock	ICP-AES	0.01	99.00
588	33	CaO %: Whole rock	ICP-AES	0.01	99.00
599	33	Na2O %: Whole rock	ICP-AES	0.01	99.00
821	33	K2O %: Whole rock	ICP-AES	0.01	99.0
595	33	TiO2 %: Whole rock	ICP-AES	0.01	99.00
597	33	P2O5 %: Whole rock	ICP-AES	0.01	99.00
596	33	MnO %: Whole rock	ICP-AES	0.01	99.00
542	33	BaO %: Whole rock	ICP-AES	0.01	99.00
475	33	L.O.I. %: Loss on ignition	FURNACE	0.01	99.00
540	33	Total %	CALCULATION	0.01	N/A

CAN'T FIND ON LIST



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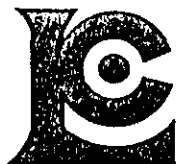
Page No.  
 Tot. Pages: 1  
 Date : 4-JAN-89  
 Invoice #: I-8829139  
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## CERTIFICATE OF ANALYSIS A8829139

SAMPLE DESCRIPTION	PREP CODE		SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	BaO %	LOI %	TOTAL %
6-1090-00	217	232	65.17	15.17	5.37	2.03	3.96	4.02	3.63	0.68	0.19	0.08	0.06	< 0.01	100.35
6-2020-30	217	232	65.91	15.31	5.09	1.28	3.20	4.88	3.31	0.77	0.28	0.08	0.07	0.86	101.05
6-4630-40	217	232	52.79	15.13	9.85	2.81	6.58	4.24	2.03	1.56	0.48	0.17	0.06	2.73	98.44
6-5010-20	218	232	58.70	16.59	6.51	2.36	6.73	4.35	1.74	0.99	0.31	0.13	0.05	1.84	100.30
6-5220-30	218	232	54.33	17.77	7.24	3.51	7.65	3.95	1.90	0.96	0.25	0.12	0.04	1.72	99.45
6-5560-70	218	232	61.59	16.73	5.40	1.74	4.69	5.54	2.17	0.82	0.22	0.12	0.06	1.26	100.35
6-6110-20	218	232	52.49	16.52	9.88	3.66	7.40	4.46	0.81	1.43	0.35	0.16	0.04	1.33	98.54
6-6360-70	218	232	50.51	16.48	10.12	5.60	9.18	3.45	0.89	1.47	0.43	0.17	0.03	1.28	99.62
6-6650-60	218	232	76.18	12.79	1.38	0.16	0.56	4.02	4.44	0.09	0.06	0.02	0.01	0.37	100.10
6-7010-20	218	232	76.07	13.21	1.27	0.20	0.65	4.20	4.29	0.10	0.05	0.01	0.01	0.38	100.45
6-7430-40	218	232	50.09	17.45	9.47	6.18	8.64	3.47	0.73	1.07	0.26	0.12	0.02	1.33	98.84
8-200-20	217	232	50.92	17.54	9.76	5.32	9.23	3.56	0.86	1.10	0.23	0.15	0.02	0.05	98.75
8-420-40	217	232	50.40	17.17	9.61	5.25	9.07	3.53	0.91	1.13	0.24	0.15	0.02	1.63	99.12
8-1000-20	217	232	55.65	17.30	7.48	3.70	6.66	3.80	1.57	0.94	0.33	0.12	0.05	1.53	99.14
8-1280-00	217	232	55.96	16.87	7.36	3.25	6.77	4.13	2.10	0.90	0.36	0.15	0.05	0.97	98.88
8-1380-00	217	232	51.13	16.89	9.64	4.14	7.54	4.10	1.07	1.21	0.35	0.13	0.03	2.60	98.84
8-1740-60	217	232	70.50	14.10	3.49	0.35	1.81	4.35	4.89	0.54	0.24	0.04	0.07	0.52	100.95
8-3140-60	217	232	51.70	16.95	9.16	3.39	7.92	3.43	1.63	1.07	0.40	0.16	0.04	3.25	99.11
8-3940-60	217	232	56.28	17.20	8.10	3.16	6.91	4.10	2.12	0.99	0.39	0.13	0.04	1.04	100.45
8-4860-80	217	232	60.32	16.43	6.48	1.88	5.02	4.76	2.49	0.95	0.48	0.13	0.06	1.10	100.10
8-5560-80	217	232	67.90	14.75	4.03	0.81	2.20	4.53	3.50	0.46	0.13	0.05	0.08	0.81	99.26
8-7410-20	217	232	61.24	15.74	6.00	1.95	4.47	4.61	2.48	0.88	0.26	0.08	0.07	1.07	98.86
8-7050-60	217	232	73.40	12.94	2.75	0.88	1.80	2.67	3.68	0.19	0.11	0.05	0.01	1.00	99.49
17-1010-20	217	232	57.37	17.72	7.27	3.52	6.78	3.97	1.52	0.96	0.35	0.12	0.05	1.51	101.15
17-1200-10	217	232	54.95	17.45	7.26	3.00	6.37	3.86	1.52	0.96	0.37	0.11	0.05	2.72	98.63
17-1310-20	217	232	53.22	16.06	8.26	2.45	4.91	3.65	1.03	1.37	0.45	0.13	0.04	6.86	98.44
17-1600-10	217	232	48.22	16.32	9.74	4.23	8.02	3.60	0.91	1.31	0.33	0.16	0.03	2.50	95.38
17-2100-20	217	232	49.27	16.79	9.78	4.26	8.17	3.74	0.85	1.29	0.31	0.16	0.03	3.03	97.69
17-4300-10	217	232	63.62	15.69	4.21	1.57	3.85	4.57	2.30	0.58	0.25	0.09	0.08	1.50	98.32
17-5160-70	217	232	72.35	14.54	2.41	0.32	1.21	4.77	4.53	0.35	0.10	0.02	0.09	0.68	101.40
17-6940-50	217	232	49.15	17.85	9.20	5.91	8.84	3.40	0.44	1.07	0.28	0.16	0.02	1.54	97.87
17-7420-30	217	232	70.48	14.05	2.71	0.73	1.82	3.83	3.87	0.43	0.12	0.04	0.07	0.57	98.73
8-F.L.	205	232	65.95	15.25	4.67	1.61	2.99	4.55	2.60	0.72	0.21	0.06	0.09	1.12	99.83

CERTIFICATION

*B. Carplin*



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Comments: ATTN: DANIEL L. CARRIER

## CERTIFICATE A8829139

UNION OIL COMPANY OF CALIFORNIA  
PROJECT :  
P.O.# : 480926

Samples submitted to our lab in Sparks, NV.  
This report was printed on 4-JAN-89.

### SAMPLE PREPARATION

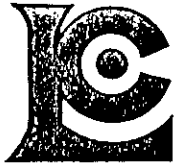
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
203	1	Rock Geochem: Crush,split,ring
217	24	Geochem:Ring only,no crush/split
218	8	Pulverize only - no crush/split
232	33	Total ICP digestion

\* NOTE 1:

Code 1000 is used for repeat gold analyses  
It shows typical sample variability due to  
coarse gold effects. Each value is  
correct for its particular subsample.

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
592	33	SiO <sub>2</sub> %: Whole rock	ICP-AES	0.01	99.00
594	33	Al <sub>2</sub> O <sub>3</sub> %: Whole rock	ICP-AES	0.01	99.00
586	33	Fe <sub>2</sub> O <sub>3</sub> (total) %: Whole rock	ICP-AES	0.01	99.00
593	33	MgO %: Whole rock	ICP-AES	0.01	99.00
588	33	CaO %: Whole rock	ICP-AES	0.01	99.00
599	33	Na <sub>2</sub> O %: Whole rock	ICP-AES	0.01	99.00
821	33	K <sub>2</sub> O %: Whole rock	ICP-AES	0.01	99.0
595	33	TiO <sub>2</sub> %: Whole rock	ICP-AES	0.01	99.00
597	33	P <sub>2</sub> O <sub>5</sub> %: Whole rock	ICP-AES	0.01	99.00
596	33	MnO %: Whole rock	ICP-AES	0.01	99.00
542	33	BaO %: Whole rock	ICP-AES	0.01	99.00
475	33	L.O.I. %: Loss on ignition	FURNACE	0.01	99.00
540	33	Total %	CALCULATION	0.01	N/A



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Page No. : 1  
 Tot. Pages: 1  
 Date : 4-JAN-89  
 Invoice # : I-8829139  
 P.O. # : 480926

## CERTIFICATE OF ANALYSIS A8829139

SAMPLE DESCRIPTION	PREP CODE		SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	BaO	LOI	TOTAL
			%	%	%	%	%	%	%	%	%	%	%	%	%
6-1090-00	217	232	65.17	15.17	5.37	2.03	3.96	4.02	3.63	0.68	0.19	0.08	0.06	< 0.01	100.35
6-2020-30	217	232	65.91	15.31	5.09	1.28	3.20	4.88	3.31	0.77	0.28	0.08	0.07	0.86	101.05
6-4630-40	217	232	52.79	15.13	9.85	2.81	6.58	4.24	2.03	1.56	0.48	0.17	0.06	2.73	98.44
6-5010-20	218	232	58.70	16.59	6.51	2.36	6.73	4.35	1.74	0.99	0.31	0.13	0.05	1.84	100.30
6-5220-30	218	232	54.33	17.77	7.24	3.51	7.65	3.95	1.90	0.96	0.25	0.12	0.04	1.72	99.45
6-5560-70	218	232	61.59	16.73	5.40	1.74	4.69	5.54	2.17	0.82	0.22	0.12	0.06	1.26	100.35
6-6110-20	218	232	52.49	16.52	9.88	3.66	7.40	4.46	0.81	1.43	0.35	0.16	0.04	1.33	98.54
6-6360-70	218	232	50.51	16.48	10.12	5.60	9.18	3.45	0.89	1.47	0.43	0.17	0.03	1.28	99.62
6-6650-60	218	232	76.18	12.79	1.38	0.16	0.56	4.02	4.44	0.09	0.06	0.02	0.01	0.37	100.10
6-7010-20	218	232	76.07	13.21	1.27	0.20	0.65	4.20	4.29	0.10	0.05	0.01	0.01	0.38	100.45
6-7430-40	218	232	50.09	17.45	9.47	6.18	8.64	3.47	0.73	1.07	0.26	0.12	0.02	1.33	98.84
8-200-20	217	232	50.92	17.54	9.76	5.32	9.23	3.56	0.86	1.10	0.23	0.15	0.02	0.05	98.75
8-420-40	217	232	50.40	17.17	9.61	5.25	9.07	3.53	0.91	1.13	0.24	0.15	0.02	1.63	99.12
8-1000-20	217	232	55.65	17.30	7.48	3.70	6.66	3.80	1.57	0.94	0.33	0.12	0.05	1.53	99.14
8-1280-00	217	232	55.96	16.87	7.36	3.25	6.77	4.13	2.10	0.90	0.36	0.15	0.05	0.97	98.88
8-1380-00	217	232	51.13	16.89	9.64	4.14	7.54	4.10	1.07	1.21	0.35	0.13	0.03	2.60	98.84
8-1740-60	217	232	70.50	14.10	3.49	0.35	1.81	4.35	4.89	0.54	0.24	0.04	0.07	0.52	100.95
8-3140-60	217	232	51.70	16.95	9.16	3.39	7.92	3.43	1.63	1.07	0.40	0.16	0.04	3.25	99.11
8-3940-60	217	232	56.28	17.20	8.10	3.16	6.91	4.10	2.12	0.99	0.39	0.13	0.04	1.04	100.45
8-4860-80	217	232	60.32	16.43	6.48	1.88	5.02	4.76	2.49	0.95	0.48	0.13	0.06	1.10	100.10
8-5560-80	217	232	67.90	14.75	4.03	0.81	2.20	4.53	3.50	0.46	0.13	0.05	0.08	0.81	99.26
8-7410-20	217	232	61.24	15.74	6.00	1.95	4.47	4.61	2.48	0.88	0.26	0.08	0.07	1.07	98.86
8-7050-60	217	232	73.40	12.94	2.75	0.88	1.80	2.67	3.68	0.19	0.11	0.05	0.01	1.00	99.49
17-1010-20	217	232	57.37	17.72	7.27	3.52	6.78	3.97	1.52	0.96	0.35	0.12	0.05	1.51	101.15
17-1200-10	217	232	54.95	17.45	7.26	3.00	6.37	3.86	1.52	0.96	0.37	0.11	0.05	2.72	98.63
17-1310-20	217	232	53.22	16.06	8.26	2.45	4.91	3.65	1.03	1.37	0.45	0.13	0.04	6.86	98.44
17-1600-10	217	232	48.22	16.32	9.74	4.23	8.02	3.60	0.91	1.31	0.33	0.16	0.03	2.50	95.38
17-2100-20	217	232	49.27	16.79	9.78	4.26	8.17	3.74	0.85	1.29	0.31	0.16	0.03	3.03	97.69
17-4300-10	217	232	63.62	15.69	4.21	1.57	3.85	4.57	2.30	0.58	0.25	0.09	0.08	1.50	98.32
17-5160-70	217	232	72.35	14.54	2.41	0.32	1.21	4.77	4.53	0.35	0.10	0.02	0.09	0.68	101.40
17-6940-50	217	232	49.15	17.85	9.20	5.91	8.84	3.40	0.44	1.07	0.28	0.16	0.02	1.54	97.87
17-7420-30	217	232	70.48	14.05	2.71	0.73	1.82	3.83	3.87	0.43	0.12	0.04	0.07	0.57	98.73
8-F.L.	205	232	65.95	15.25	4.67	1.61	2.99	4.55	2.60	0.72	0.21	0.06	0.09	1.12	99.83

CERTIFICATION

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A8824092

Comments: ATTN: DANIEL CARRIER

## CERTIFICATE A8824092

UNION OIL COMPANY OF CALIFORNIA

PROJECT :

# : 480926

Samples submitted to our lab in Sparks, NV.

This report was printed on 29-SEP-88.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	16	Geochem: Ring only, no crush/split
232	16	Total ICP digestion

\* NOTE 1:

Code 1000 is used for repeat gold analyses. It shows typical sample variability due to coarse gold effects. Each value is correct for its particular subsample.

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
592	16	SiO <sub>2</sub> %: Whole rock	ICP-AES	0.01	99.00
594	16	Al <sub>2</sub> O <sub>3</sub> %: Whole rock	ICP-AES	0.01	99.00
586	16	Fe <sub>2</sub> O <sub>3</sub> (total) %: Whole rock	ICP-AES	0.01	99.00
593	16	MgO %: Whole rock	ICP-AES	0.01	99.00
588	16	CaO %: Whole rock	ICP-AES	0.01	99.00
599	16	Na <sub>2</sub> O %: Whole rock	ICP-AES	0.01	99.00
821	16	K <sub>2</sub> O %: Whole rock	ICP-AES	0.01	99.00
595	16	TiO <sub>2</sub> %: Whole rock	ICP-AES	0.01	99.00
597	16	P <sub>2</sub> O <sub>5</sub> %: Whole rock	ICP-AES	0.01	99.00
596	16	MnO %: Whole rock	ICP-AES	0.01	99.00
542	16	BaO %: Whole rock	ICP-AES	0.01	99.00
475	16	L.O.I. %: Loss on ignition	FURNACE	0.01	99.00
540	16	Total %	CALCULATION	0.01	N/A



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Page No.  
Tot. Pages: 1  
Date: 29-SEP-88  
Invoice #: I-8824092  
P.O. #: 480926

## CERTIFICATE OF ANALYSIS A8824092

SAMPLE DESCRIPTION	PREP CODE		SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	BaO %	LOI %	TOTAL %
31-3180	217	232	55.77	17.60	7.81	4.02	7.89	3.95	1.10	0.93	0.22	0.12	0.04	1.84	101.30
31-3660	217	232	55.19	18.05	7.97	3.72	8.19	3.60	0.78	1.00	0.29	0.12	0.05	1.65	100.60
31-4300	217	232	64.16	15.76	4.16	1.49	3.79	4.65	2.26	0.60	0.22	0.09	0.09	1.66	98.94
31-4510	217	232	51.56	17.50	9.77	5.21	9.15	3.30	0.67	1.14	0.24	0.14	0.04	1.83	100.55
31-4600	217	232	50.37	17.91	9.10	4.94	9.31	3.66	0.38	1.18	0.28	0.14	0.04	2.31	99.63
31-4780	217	232	50.38	17.11	9.66	5.56	9.14	3.78	0.53	1.42	0.35	0.15	0.03	1.91	100.05
31-4960	217	232	49.32	17.98	10.15	3.27	10.13	3.48	0.12	1.13	0.24	0.15	0.03	3.02	99.03
31-5020	217	232	54.38	18.64	7.90	3.65	7.12	3.54	0.73	1.05	0.29	0.12	0.05	2.99	100.45
31-5160	217	232	72.22	14.54	2.31	0.45	1.24	4.76	4.44	0.37	0.11	0.02	0.09	0.80	101.35
31-5320	217	232	55.61	17.03	6.61	3.88	8.60	3.04	1.04	0.52	0.14	0.10	0.03	2.48	99.09
31-6280	217	232	51.07	18.59	8.45	5.64	9.09	3.62	0.56	0.90	0.25	0.13	0.03	1.72	100.05
31-6540	217	232	50.51	19.16	8.72	4.34	9.45	3.52	0.20	1.03	0.22	0.13	0.03	1.64	98.96
31-6940	217	232	49.31	18.00	9.38	6.10	9.04	3.40	0.46	1.14	0.29	0.16	0.03	1.50	98.82
31-7240	217	232	48.94	19.83	8.58	5.29	9.87	3.24	0.07	0.94	0.17	0.14	0.02	1.46	98.56
31-7600	217	232	49.49	17.87	9.17	6.17	8.82	3.42	< 0.01	1.08	0.24	0.15	0.06	1.43	97.92
31-8090	217	232	51.10	18.29	9.33	5.58	8.66	3.89	0.19	1.06	0.32	0.14	0.04	0.45	99.06

CERTIFICATION:

*B. Carlin*



# Chemex Labs Inc.

Analytical Chemists \* Geochemists \* Registered Assayers  
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To UNION OIL COMPANY OF CALIFORNIA  
UNION GEOTHERMAL DIVISION  
3576 UNOCAL PLACE, P.O. BOX 6854  
SANTA ROSA, CALIFORNIA  
95406

Project :  
Comments: ATTN: DANIEL CARRIER

Page No. :  
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Date : 29-SEP-88  
Invoice # : I-8824092  
P.O. # : 480926

## CERTIFICATE OF ANALYSIS A8824092

SAMPLE DESCRIPTION	PREP CODE		SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	BaO %	LOI %	TOTAL %
31-3180	217	232	55.77	17.60	7.81	4.02	7.89	3.95	1.10	0.93	0.22	0.12	0.04	1.84	101.30
31-3660	217	232	55.19	18.05	7.97	3.72	8.19	3.60	0.78	1.00	0.29	0.12	0.05	1.65	100.60
31-4300	217	232	64.16	15.76	4.16	1.49	3.79	4.65	2.26	0.60	0.22	0.09	0.09	1.66	98.94
31-4510	217	232	51.56	17.50	9.77	5.21	9.15	3.30	0.67	1.14	0.24	0.14	0.04	1.83	100.55
31-4600	217	232	50.37	17.91	9.10	4.94	9.31	3.66	0.38	1.18	0.28	0.14	0.04	2.31	99.63
31-4780	217	232	50.38	17.11	9.66	5.56	9.14	3.78	0.53	1.42	0.35	0.15	0.03	1.91	100.05
31-4960	217	232	49.32	17.98	10.15	3.27	10.13	3.48	0.12	1.13	0.24	0.15	0.03	3.02	99.03
31-5020	217	232	54.38	18.64	7.90	3.65	7.12	3.54	0.73	1.05	0.29	0.12	0.05	2.99	100.45
31-5160	217	232	72.22	14.54	2.31	0.45	1.24	4.76	4.44	0.37	0.11	0.02	0.09	0.80	101.35
31-5320	217	232	55.61	17.03	6.61	3.88	8.60	3.04	1.04	0.52	0.14	0.10	0.03	2.48	99.09
31-6280	217	232	51.07	18.59	8.45	5.64	9.09	3.62	0.56	0.90	0.25	0.13	0.03	1.72	100.05
31-6540	217	232	50.51	19.16	8.72	4.34	9.45	3.52	0.20	1.03	0.22	0.13	0.03	1.64	98.96
31-6940	217	232	49.31	18.00	9.38	6.10	9.04	3.40	0.46	1.14	0.29	0.16	0.03	1.50	98.82
31-7240	217	232	48.94	19.83	8.58	5.29	9.87	3.24	0.07	0.94	0.17	0.14	0.02	1.46	98.56
31-7600	217	232	49.49	17.87	9.17	6.17	8.82	3.42	< 0.01	1.08	0.24	0.15	0.06	1.43	97.92
31-8090	217	232	51.10	18.29	9.33	5.58	8.66	3.89	0.19	1.06	0.32	0.14	0.04	0.45	99.06

CERTIFICATION :

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