

GW - 125

MONITORING REPORTS

DATE:

2002

ANALYTICAL REPORT

Prepared for:

Jerry D. Fanning Jr.
Yates Petroleum Corp.
105 South 4th
Artesia, NM 88210

Project: Larue Compressor
Order#: G0202677
Report Date: 03/06/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Yates Petroleum Corp.
105 South 4th
Artesia, NM 88210
505-748-4585

Order#: G0202677
Project:
Project Name: Larue Compressor
Location: Dagger Draw

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0202677-01	Mimosa SWD	WATER	02/25/2002	02/26/2002 11:19	500 ml HDPE	see COC
<u>Lab Testing:</u>		Rejected: No	Temp: -2.5 C			
METALS RCRA 8 Total						
Aluminum						
Boron						
Cobalt						
Copper						
Iron						
Manganese						
Metals Digestion - Total						
Molybdenum						
Nickel						
Strontium						
SULFIDE, 4500 F						
Zinc						
0202677-02	Foster Fresh Water	WATER	02/25/2002	02/26/2002 11:19	500 ml HDPE	see COC
<u>Lab Testing:</u>		Rejected: No	Temp: -2.5 C			
METALS RCRA 8 Total						
Aluminum						
Boron						
Cobalt						
Copper						
Iron						
Manganese						
Metals Digestion - Total						
Molybdenum						
Nickel						
Strontium						
SULFIDE, 4500 F						
Zinc						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Jerry D. Fanning Jr.
Yates Petroleum Corp.
105 South 4th
Artesia, NM 88210

Order#: G0202677
Project:
Project Name: Larue Compressor
Location: Dagger Draw

Lab ID: 0202677-01
Sample ID: Mimosa SWD

METALS RCRA 8 Total

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	0.051	mg/L	1	0.008	6010B	03/03/2002	3/6/02	SM
Barium	0.069	mg/L	1	0.001	6010B	03/03/2002	3/6/02	SM
Cadmium	0.002	mg/L	1	0.001	6010B	03/03/2002	3/6/02	SM
Chromium	0.023	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Lead	0.018	mg/L	1	0.011	6010B	03/03/2002	3/6/02	SM
Mercury	0.003	mg/L	1	0.002	245.1, 7470	03/03/2002	3/4/02	SM
Selenium	0.034	mg/L	1	0.004	6010B	03/03/2002	3/6/02	SM
Silver	0.004	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Aluminum	0.950	mg/L	1	0.015	6010B	03/03/2002	3/6/02	SM
Boron	1.98	mg/L	1	0.005	6010B	03/03/2002	3/6/02	SM
Cobalt	0.001	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Copper	0.005	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Iron	0.312	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Manganese	0.063	mg/L	1	0.001	6010B	03/03/2002	3/6/02	SM
Molybdenum	0.006	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Nickel	0.081	mg/L	1	0.006	6010B	03/03/2002	3/6/02	SM
Strontium	10.4	mg/L	10	0.010	6010B	03/03/2002	3/6/02	SM
Zinc	<0.001	mg/L	1	0.001	6010B	03/03/2002	3/6/02	SM

Lab ID: 0202677-02
Sample ID: Foster Fresh Water

METALS RCRA 8 Total

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Arsenic	0.065	mg/L	1	0.008	6010B	03/03/2002	3/6/02	SM
Barium	0.010	mg/L	1	0.001	6010B	03/03/2002	3/6/02	SM
Cadmium	0.001	mg/L	1	0.001	6010B	03/03/2002	3/6/02	SM
Chromium	0.020	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Lead	0.029	mg/L	1	0.011	6010B	03/03/2002	3/6/02	SM
Mercury	<0.002	mg/L	1	0.002	245.1, 7470	03/03/2002	3/4/02	SM
Selenium	0.048	mg/L	1	0.004	6010B	03/03/2002	3/6/02	SM
Silver	<0.002	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Aluminum	0.928	mg/L	1	0.015	6010B	03/03/2002	3/6/02	SM
Boron	0.118	mg/L	1	0.005	6010B	03/03/2002	3/6/02	SM
Cobalt	0.003	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM

N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Jerry D. Fanning Jr.
Yates Petroleum Corp.
105 South 4th
Artesia, NM 88210

Order#: G0202677
Project:
Project Name: Larue Compressor
Location: Dagger Draw

Lab ID: 0202677-02
Sample ID: Foster Fresh Water

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Copper	0.006	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Iron	0.168	mg/L	1	50	6010B	03/03/2002	3/6/02	SM
Manganese	0.008	mg/L	1	0.2	6010B	03/03/2002	3/6/02	SM
Molybdenum	0.008	mg/L	1	0.002	6010B	03/03/2002	3/6/02	SM
Nickel	0.058	mg/L	1	0.006	6010B	03/03/2002	3/6/02	SM
Strontium	8.21	mg/L	5	0.0050	6010B	03/03/2002	3/6/02	SM
Zinc	0.122	mg/L	1	0.001	6010B	03/03/2002	3/6/02	SM

Approval: Raland K. Tuttle 3-08-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Irene Perry, QA Assistant
Sandra Biezugbe, Lab Tech.
Curt Cowdrey, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Jerry D. Fanning Jr.
Yates Petroleum Corp.
105 South 4th
Artesia, NM 88210

Order#: G0202677
Project:
Project Name: Larue Compressor
Location: Dagger Draw

Lab ID: 0202677-01
Sample ID: Mimosa SWD

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
SULFIDE, 4500 F	365	mg/L	1	5.0	SM4500 F	3/4/02	CC

Lab ID: 0202677-02
Sample ID: Foster Fresh Water

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
SULFIDE, 4500 F	< 5.0	mg/L	1	5.0	SM4500 F	3/4/02	CC

Approval:

Raland K. Tuttle 3-08-02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Irene Perry, QA Assistant
Sandra Biezugbe, Lab Tech.
Curt Cowdrey, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

METALS RCRA 8 Total

Order#: G0202677

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic-mg/L	0000780-01			<0.008		
Barium-mg/L	0000780-01			<0.001		
Cadmium-mg/L	0000780-01			<0.001		
Chromium-mg/L	0000780-01			<0.002		
Lead-mg/L	0000780-01			<0.011		
Mercury-mg/L	0000780-01			<0.002		
Selenium-mg/L	0000780-01			<0.004		
Silver-mg/L	0000780-01			<0.002		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic-mg/L	0202677-02	0.065	0.2	0.288	111.5%	
Barium-mg/L	0202677-02	0.01	1	1.02	101.%	
Cadmium-mg/L	0202677-02	0.001	0.2	0.194	96.5%	
Chromium-mg/L	0202677-02	0.02	1	0.933	91.3%	
Lead-mg/L	0202677-02	0.029	1	1.04	101.1%	
Mercury-mg/L	0202677-02	0	0.01	0.016	160.%	
Selenium-mg/L	0202677-02	0.048	0.2	0.269	110.5%	
Silver-mg/L	0202677-02	0	1	0.896	89.6%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic-mg/L	0202677-02	0.065	0.2	0.298	116.5%	3.4%
Barium-mg/L	0202677-02	0.01	1	1.03	102.%	1.%
Cadmium-mg/L	0202677-02	0.001	0.2	0.199	99.%	2.5%
Chromium-mg/L	0202677-02	0.02	1	0.962	94.2%	3.1%
Lead-mg/L	0202677-02	0.029	1	1.06	103.1%	1.9%
Mercury-mg/L	0202677-02	0.016	0.01	0.016	160.%	100.%
Selenium-mg/L	0202677-02	0.048	0.2	0.277	114.5%	2.9%
Silver-mg/L	0202677-02	0.896	1	0.907	90.7%	1.2%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic-mg/L	0000780-04		1	1.04	104.%	0.%
Barium-mg/L	0000780-04		1	1.01	101.%	0.%
Cadmium-mg/L	0000780-04		1	1.04	104.%	0.%
Chromium-mg/L	0000780-04		1	1.02	102.%	0.%
Lead-mg/L	0000780-04		1	1.03	103.%	0.%
Mercury-mg/L	0000780-04		0.015	0.015	100.%	0.%
Selenium-mg/L	0000780-04		1	1.02	102.%	0.%
Silver-mg/L	0000780-04		1	0.960	96.%	0.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0202677

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Aluminum-mg/L	0000780-01			<0.015		
Boron-mg/L	0000780-01			<0.005		
Cobalt-mg/L	0000780-01			<0.002		
Copper-mg/L	0000780-01			<0.002		
Iron-mg/L	0000780-01			<0.002		
Manganese-mg/L	0000780-01			<0.2		
Molybdenum-mg/L	0000780-01			<0.002		
Nickel-mg/L	0000780-01			<0.006		
Strontium-mg/L	0000780-01			<0.001		
SULFIDE, 4500 F-mg/L	0000754-01			< 5.0		
Zinc-mg/L	0000780-01			<0.001		
CONTROL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SULFIDE, 4500 F-mg/L	0000754-02		680	480	70.6%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SULFIDE, 4500 F-mg/L	0000754-03		680	466	68.5%	3.9%
DUPLICATE	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SULFIDE, 4500 F-mg/L	0202677-01	365		374		2.4%
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Aluminum-mg/L	0202677-02	0.928	1	2.09	116.2%	
Boron-mg/L	0202677-02	0.118	1	1.18	106.2%	
Cobalt-mg/L	0202677-02	0.003	1	0.976	97.3%	
Copper-mg/L	0202677-02	0.006	1	1.08	107.4%	
Iron-mg/L	0202677-02	0.168	0.5	0.686	103.6%	
Manganese-mg/L	0202677-02	0.008	0.5	0.493	98.6%	
Molybdenum-mg/L	0202677-02	0.008	1	0.98	97.2%	
Nickel-mg/L	0202677-02	0.058	1	1.03	97.2%	
Strontium-mg/L	0202677-02	8.21	1	9.31	110.0%	
Zinc-mg/L	0202677-02	0.122	0.5	0.6963	114.9%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Aluminum-mg/L	0202677-02	0.928	1	2.12	119.2%	1.4%
Boron-mg/L	0202677-02	0.118	1	1.18	106.2%	0.0%
Cobalt-mg/L	0202677-02	0.003	1	0.989	98.6%	1.3%
Copper-mg/L	0202677-02	0.006	1	1.09	108.4%	0.9%
Iron-mg/L	0202677-02	0.168	0.5	0.698	106.0%	1.7%
Manganese-mg/L	0202677-02	0.008	0.5	0.502	100.4%	1.8%
Molybdenum-mg/L	0202677-02	0.008	1	1	99.2%	2.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Nickel-mg/L	0202677-02	0.058	1	1.05	99.2%	1.9%
Strontium-mg/L	0202677-02	8.21	1	9.27	106.%	0.4%
Zinc-mg/L	0202677-02	0.122	0.5	0.716	118.8%	2.8%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Aluminum-mg/L	0000780-04		1	0.964	96.4%	0.%
Boron-mg/L	0000780-04		1	1.06	106.%	0.%
Cobalt-mg/L	0000780-04		1	1.03	103.%	0.%
Copper-mg/L	0000780-04		1	0.977	97.7%	0.%
Iron-mg/L	0000780-04		1	1.04	104.%	0.%
Manganese-mg/L	0000780-04		1	1.02	102.%	0.%
Molybdenum-mg/L	0000780-04		1	1.04	104.%	0.%
Nickel-mg/L	0000780-04		1	1.03	103.%	0.%
Strontium-mg/L	0000780-04		1	1.08	108.%	0.%
Zinc-mg/L	0000780-04		1	1.08	108.%	0.%