

**GW - 20**

**MONITORING  
REPORTS**

**DATE:**

---

**2005 - 2000**

Frontier Field Services, LLC  
Southern Ute Indian Tribe

Randy McCollum  
Manager of Compliance

Phone (505) 676-3505  
Cell (505) 361-0128  
rmccollum@frontierfieldservices.com

May 14, 2005

CERTIFIED MAIL # 7004 0750 0002 5384 6137  
RETURN RECEIPT REQUESTED

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

MAY 19 2005

OIL CONSERVATION  
DIVISION

**Re: GW-020 Discharge Plan  
Maljamar Gas Plant  
Annual Sump and Five Year Underground Piping Inspection  
Frontier Field Services**

Dear Mr. Price:

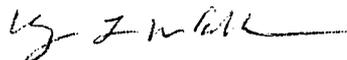
On April 10, 2005 notice was given to Paul Sheeley and Chris Williams of the local NMOCD office in Hobbs, NM that a planned inspection of sumps and underground piping as required in our Discharge Plan would be performed beginning April 14, 2005.

During the time period from April 14 through April 27, 2005 the #8 Clark cellar, plant sumps, and underground piping was inspected. Copies of the inspection records are attached. A copy of this letter is also appended to the GW-020 renewal application.

For the underground piping inspection a circular chart was used to record each inspection. The recorder was calibrated by a Frontier Field Services employee skilled in meter calibration. The chart range is from 0% to 100%, calibrated to 50 psig at 100%. The piping inspections were performed at approximately 20 psig held for at least 4 hours.

If you have any questions or require more information please contact me at 505-676-3505.

Sincerely,



Randy L. McCollum

Paul Sheeley, OCD-Hobbs  
File: Env 1054

Frontier Field Services, LLC  
Southern Ute Indian Tribe

April 27, 2005

OCD Drain Line Test for 2005

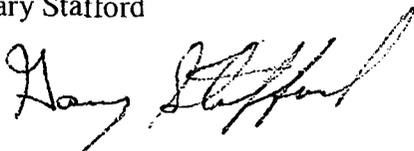
East and West Expander Sumps 3' ¾";      Start test 11:00 a.m. on 4/13/05  
End test 11:00 a.m. on 4/14/05

Refridge Sump 6'8";      Start test 2:30 p.m. on 4/14/05  
End test 3:00 p.m. on 4/15/05

Sump Southside of Old Electric Building;      Start test 7:30 a.m. on 4/18/05      6'8"  
End test 7:30 a.m. on 4/19/05      6'8"

Amine Sump;      Start test 7:30 a.m., on 4/25/05      43 ½"  
End test 7:30 a.m., on 4/26/05      43 ½"

Gary Stafford



Frontier Field Services, LLC  
*Southern Ute Indian Tribe*

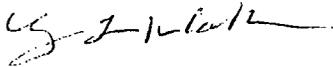
April 15, 2005

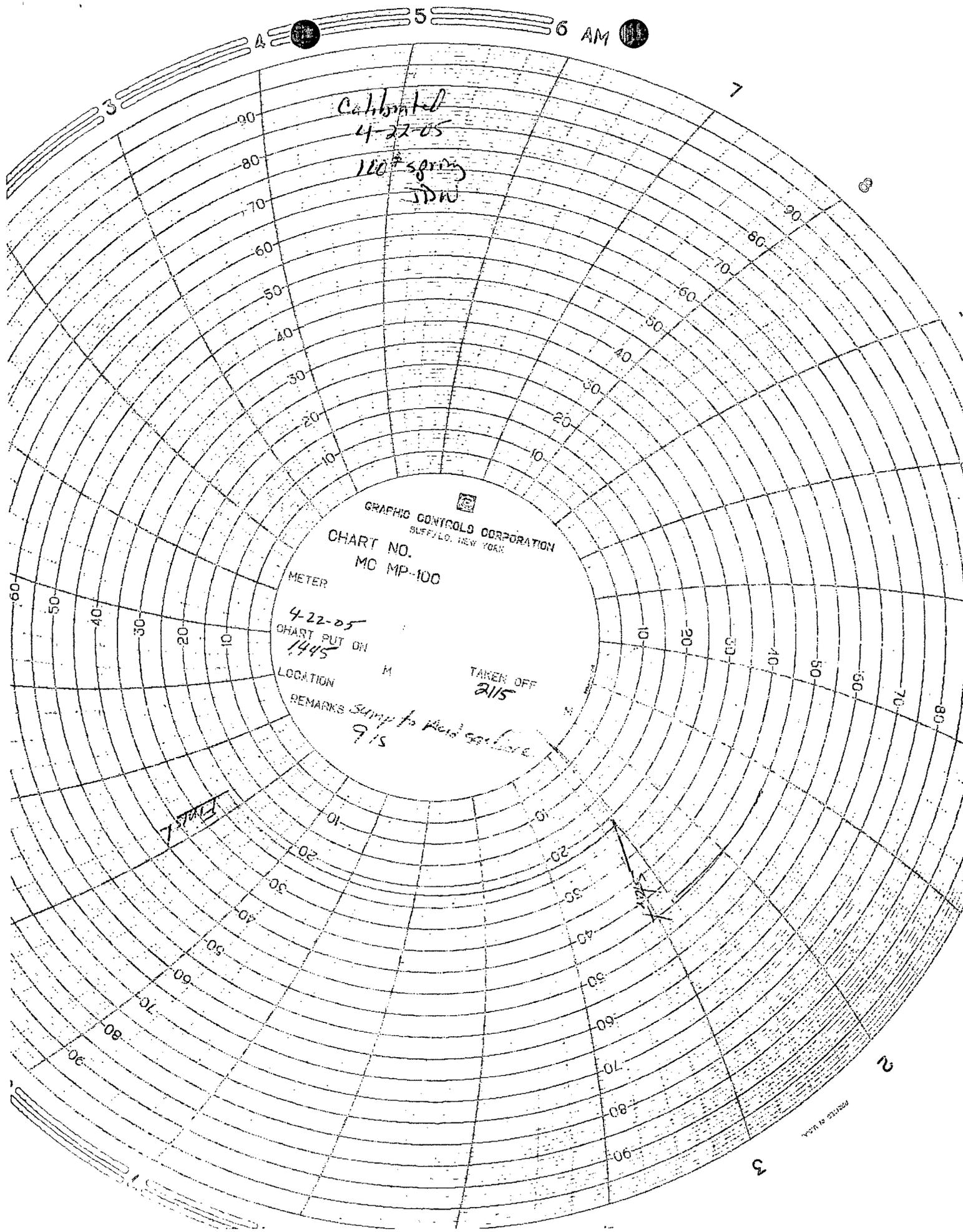
#8 Clark was shutdown and the cellar surrounding the unit was emptied, mopped and steam cleaned. The cellar was allowed to dry overnight, April 14, 2005, and was visually inspected on April 15 by Randy McCollum.

The inspection consisted of entry into the cellar and making a close examination of the cellar floor and walls, looking for cracks or other evidence that fluids might be leaking.

No evidence of leaks was found during the inspection. The unit was left down for several hours to give NMOCD personnel time to arrive at the site. The unit was then returned to service.

Randy McCollum





Calibrated  
4-22-05  
100° spring  
JDW

GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK  
CHART NO.  
MC MP-100

METER  
4-22-05  
CHART PUT ON  
1445

TAKEN OFF  
215

LOCATION  
REMARKS  
915  
Temp to field exposure

TEMP

TEMP

MADE IN U.S.A.

6 AM

Calibrated  
4-5-05  
50 # Spring  
J.D.W.

GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO.  
MC MP-100

METER

CHART PUT ON  
1400 M

TAKEN OFF  
1900 E

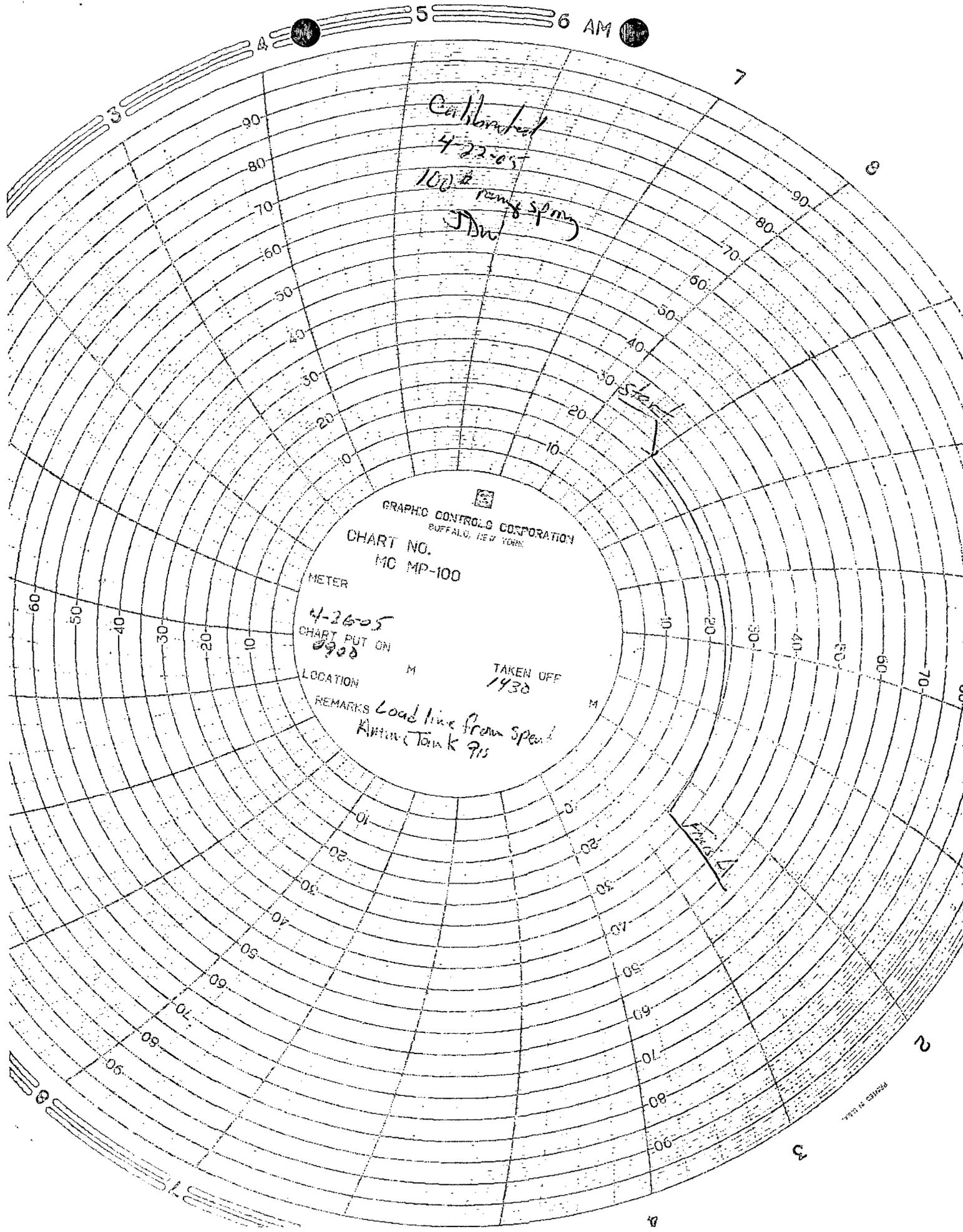
LOCATION

REMARKS 1" to 110 Tank  
4-19-05 9B

Start

Finish

1971-A COMPANY



Calibrated  
4-22-05  
100 #  
rem of spms  
J.D.W.

Start

Final

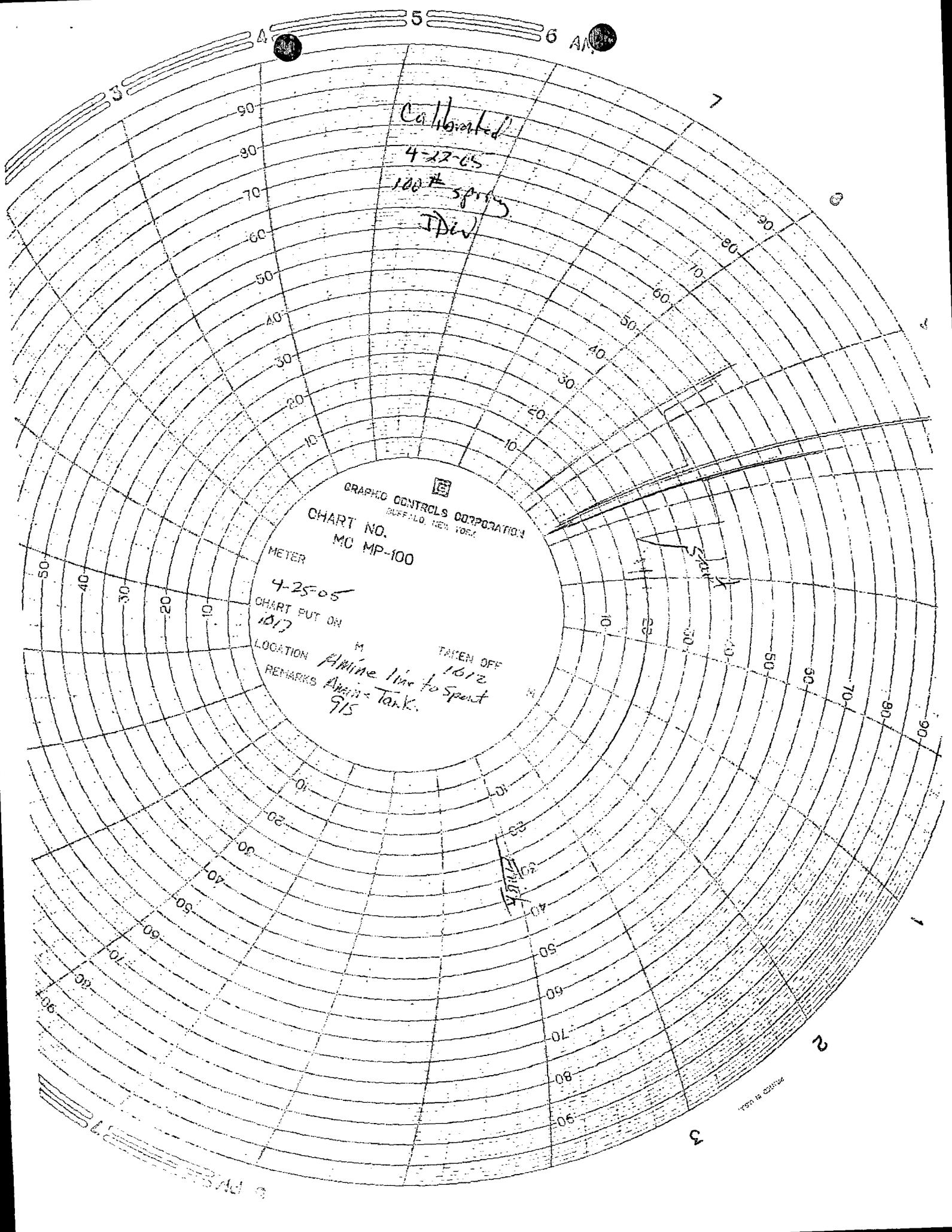
GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO.  
MC MP-100

METER  
4-26-05  
CHART PUT ON  
0900

TAKEN OFF  
1930

LOCATION  
REMARKS Load line from Speed  
Kilowatt Tank 915



Calibrated  
4-22-65  
100# spring  
IP Div

GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO.  
MC MP-100

METER

4-25-65

CHART PUT ON  
1017

LOCATION

AMINE line to Spent  
915

TAKEN OFF

1012

REMARKS

1950 to 2012

MIDNIGHT

Meter calibrated  
4-5-05 by Jerry Wright  
0-50 # Spring

EMERIX CONTROL CORPORATION  
BUFFALO, N.Y.  
CHART NO. MC MP-100  
METER

CHART PUT ON  
0795  
LOCATION

REMARKS  
New units 5K id run off  
to new oil tank  
4.9.05 9:15

TAKEN OFF  
1250

CA 60

NOON

meter calibration  
H-5-05 by Jerry Wright  
O-50+ range spring  
SDW

GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO.  
MC MP-100

METER

CHART PUT ON  
1330

APRIL 18, 2005

LOCATION M

TAKEN OFF  
6:00 P.M.

REMARKS electric to 420  
100% of chart 50 psig  
40% of chart 20 psig  
7/1

END OF TEST

RES IN

GRAPHIC CONTROLS

**Randy McCollum**

**From:** Randy McCollum [rmccollum@frontierfieldservices.com]  
**Sent:** Sunday, April 10, 2005 1:55 PM  
**To:** 'psheeley@state.nm.us'; 'cwilliams@state.nm.us'; 'wprice@state.nm.us'  
**Cc:** 'jprentiss@frontierfieldservices.com'; 'rlizardo@frontierfieldservices.com'; 'smaker@frontierfieldservices.com'  
**Subject:** 72 Hour Notice of Sump and Underground Piping Test  
**Importance:** High

**To:** Paul Sheeley, NMOCD, District 1  
Chris Williams, NMOCD, District 1  
Wayne Price, NMOCD, Santa Fe

Please be advised that Frontier Field Services will be conducting the annual sump(s) and 5-year underground piping tests beginning at 8:00 am, Thursday, April 14, 2005 at its Maljamar Gas Plant located 3 miles south of Maljamar, NM. These tests are required by Discharge Plan GW-020 and are being conducted in preparation for submittal of the GW-020 renewal application.

This note serves as 72 hour notice of the planned tests and I have requested delivery and read receipts.

Please contact me with any questions or guidance you might have.

Randy McCollum  
Manager of Compliance  
Frontier Field Services, LLC  
505 676-3505  
505 361-0128 cell  
505 676-2401 fax

4/10/2005

## Randy McCollum

---

**From:** System Administrator [postmaster@state.nm.us]  
**Sent:** Sunday, April 10, 2005 1:55 PM  
**To:** rmccollum@frontierfieldservices.com  
**Subject:** Delivered:



Delivered:

our message

was delivered to the following recipient(s):

Williams, Chris on Sun, 10 Apr 2005 15:54:28 -0600  
MSEXCH:MSExchangeMTA:saf2:NMEMNRDDEPT  
Sheeley, Paul on Sun, 10 Apr 2005 15:54:28 -0600  
MSEXCH:MSExchangeMTA:saf2:NMEMNRDDEPT  
Price, Wayne on Sun, 10 Apr 2005 15:54:28 -0600  
MSEXCH:MSExchangeMTA:saf2:NMEMNRDDEPT

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## Randy McCollum

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**From:** System Administrator  
**To:** Williams, Chris; Sheeley, Paul; Price, Wayne  
**Sent:** Sunday, April 10, 2005 1:55 PM  
**Subject:** Delivered:

Your message

**To:** Unknown  
**Subject:**

was delivered to the following recipient(s):

Williams, Chris on 4/10/2005 2:54 PM  
Sheeley, Paul on 4/10/2005 2:54 PM  
Price, Wayne on 4/10/2005 2:54 PM

**Frontier**  
Field Services, LLC

2004 OCT 12 AM 11 28

Retha K. Scott  
Manager of Compliance  
Office: 505/676-3505  
Cell: 505/361-0128  
[rscott@frontierenergyllc.com](mailto:rscott@frontierenergyllc.com)

Frontier Field Services, LLC  
1001 Conoco Road  
P. O. Box 7  
Maljamar, NM 88264

October 8, 2004

State of New Mexico  
Attn: Mr. Wayne Price  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

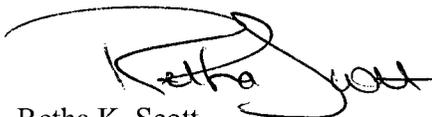
**Re: Annual Discharge Report for Conoco Playa Lake  
Discharge Plan # GW-020  
Frontier Field Services  
Maljamar Gas Plant, Lea County**

Dear Mr. Price:

Attached please find the water analysis and monthly discharged water meter readings for the Frontier Energy Services Maljamar Gas Plant disposal of "Reverse Osmosis" wastewater into Conoco Production's Playa Lake. OCD Discharge Permit # GW-020 requires metering of the discharged water to be recorded monthly and a laboratory analysis of a water sample from this stream on an annual basis.

If you have any questions or require more information, please contact me at (505) 676-3505.

Sincerely,



Retha K. Scott

Cc: John Prentiss  
File 2852.1

Attachments

**MALJAMAR GAS PLANT**

Monthly R.O. discharge to Playa Lake

Month	Meter/Reading	Gal/Month	BBL/Month	Cumlitive BBL	Monthly/Average
Jul 1 2001	0				
Aug 1 2001	15160	15160	361	361	361
Sept 1 2001	108320	93160	2218	2579	1290
Oct 1 2001	198560	90240	2149	4728	1576
Nov 1 2001	272210	73650	1754	6481	1620
Dec 1 2001	329480	57270	1364	7845	1569
Jan 1 2002	388570	59090	1407	9252	1385
Feb 1 2002	436150	47580	1133	10385	1270
Mar 1 2002	495240	59090	1407	11791	1270
Apr 1 2002	536820	41580	990	12781	1198
May 1 2002	578070	41250	982	13764	986
Jun 1 2002	625650	47580	1133	14896	1058
Jul 1 2002	667170	41520	989	15885	1061
Aug 1 2002	674070	6900	164	16049	576
Sept 1 2002	696270	22200	529	16578	346
Oct 1 2002	711110	14840	353	16931	441
Nov 1 2002	739514	28404	676	17607	515
Dec 1 2002	768100	28586	681	18288	678
Jan 1 2003	796610	28510	679	18967	680
Feb 1 2003	817215	20605	491	19458	585
Mar 1 2003	837820	20605	491	19948	491
Apr 1 2003	858425	20605	491	20439	491
May 1 2003	879030	20605	491	20929	491
Jun 1 2003	897990	18960	451	21381	471
Jul 1 2003	908113	10123	241	21622	346
Aug 1 2003	918326	10213	243	21865	242
Sept 1 2003	928360	10034	239	22104	241
Oct 1 2003	951597	23237	553	22657	396
Nov 1 2003	973139	21542	513	23170	533
Dec 1 2003	996154	23015	548	23718	530
Jan 1 2004	1020716	24562	585	24303	566
Feb 1 2004	1040374	19658	468	24771	526
Mar 1 2004	1066015	25641	611	25381	539
Apr 1 2004	1089202	23187	552	25933	581
May 1 2004	1113523	24321	579	26512	566
June 1 2004	1136119	22596	538	27050	559
July 1 2004	1156706	20587	490	27541	514
Aug 1 2004	1179936	23230	553	28094	522
Sept 1 2004	1207210	27274	649	28743	601
Oct 1 2004		-1207210	-28743	0	-14047
Nov 1 2004		0	0	0	-14372
Dec 1 2004		0	0	0	0



# Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

Billing Address: P.O. BOX 69210 • ODESSA, TEXAS 79769-0210

Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

OCTOBER 07, 2004

MR. JERRY WRIGHT  
FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

DEAR MR. WRIGHT:  
THE FOLLOWING ARE THE RESULTS OF THE MALJAMAR R.O. WATER  
DISCHARGE SAMPLE FOR TCLP METALS, RECEIVED 09/27/04,  
LAB NO. 1345:

TEST REQUESTED	TCLP METALS mg/L	REGULATORY LIMIT mg/L	DETECTION LIMIT mg/L
ARSENIC	< 0.02	5.00	0.02
BARIUM	< 0.02	100.00	0.02
CADMIUM	< 0.02	1.00	0.02
CHROMIUM	< 0.02	5.00	0.02
LEAD	< 0.015	5.00	0.015
SELENIUM	< 0.05	1.00	0.05
SILVER	< 0.05	5.00	0.05
MERCURY	0.005	0.20	0.004

NOTE: RESULTS ARE FROM ANOTHER LAB.

NOTE: < = LESS THAN  
METHOD: METALS EPA 1311

SAMPLES CONTAINING HAZARDOUS AND TOXIC SUBSTANCES WILL BE RETURNED TO THE POINT OF ORIGIN FOR DISPOSAL. IF THIS IS NOT POSSIBLE AND MOBILE LABS HAS TO DISPOSE OF THE SAMPLE IN ACCORDANCE WITH EPA REGULATIONS, THEN ADDITIONAL CHARGES WILL BE BILLED TO COVER THE COST OF DISPOSAL OF THIS SAMPLE.

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

*Stephen Reid*  
STEPHEN REID  
SR/dt



# Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

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Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

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FAX (432) 337-8781

OCTOBER 07, 2004

MR. JERRY WRIGHT  
FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

DEAR MR. WRIGHT:  
THE FOLLOWING ARE THE RESULTS OF THE MALJAMAR R.O. WATER  
DISCHARGE SAMPLE FOR TCLP SEMI-VOLATILES, RECEIVED 09/27/04,  
LAB NO. 1345:

ANALYTE	CONCENTRATION mg/L	DETECTION LIMIT mg/L	REGULATORY LIMIT mg/L
M+P-CRESOL	< 0.1	0.1	200.0
O-CRESOL	< 0.1	0.1	200.0
NITROBENZENE	< 0.1	0.1	2.0
1,4-DICHLOROBENZENE	< 0.1	0.1	7.5
3,3-DICHLOROBENZIDINE	< 0.1	0.1	0.8
2,4-DINITROTOLUENE	< 0.1	0.1	0.13
HEXACHLOROBENZENE	< 0.1	0.1	0.13
HEXACHLORO-1,3-BUTADIENE	< 0.1	0.1	0.5
HEXACHLOROETHANE	< 0.1	0.1	3.0
PENTACHLOROPHENOL	< 0.1	0.1	100.0
PYRIDINE	< 0.1	0.1	5.0
2,4,5-TRICHLOROPHENOL	< 0.1	0.1	400.0
2,4,6-TRICHLOROPHENOL	< 0.1	0.1	2.0

SURROGATE STANDARDS	RECOVERY	QA/QC LIMITS
2-FLUOROPHENOL	62.6	21-110%
PHENOL-d6	75.4	10-110%
NITROBENZENE-d5	96.6	35-114%

NOTES: RESULTS ARE FROM ANOTHER LAB.  
< = LESS THAN

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.  
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,  
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID  
SR/dt



# Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

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FAX (432) 337-8781

OCTOBER 07, 2004

MR. JERRY WRIGHT  
FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

DEAR MR. WRIGHT:  
THE FOLLOWING ARE THE RESULTS OF THE MALJAMAR R.O. WATER  
DISCHARGE SAMPLE FOR TCLP VOLATILES, RECEIVED 09/27/04,  
LAB NO. 1345:

ANALYTE	CONCENTRATION mg/L	DETECTION LIMIT mg/L	REGULATORY LIMIT mg/L
BENZENE	< 0.10	0.10	0.5
CARBON TETRACHLORIDE	< 0.10	0.10	0.5
CHLOROBENZENE	< 0.10	0.10	100.0
CHLOROFORM	< 0.10	0.10	6.0
1,2-DICHLOROETHANE	< 0.10	0.10	0.5
2-BUTANONE (MEK)	< 0.10	0.10	200.0
1,1-DICHLOROETHENE	< 0.10	0.10	0.7
TETRACHLOROETHENE	< 0.10	0.10	0.7
TRICHLOROETHENE	< 0.10	0.10	0.5
VINYL CHLORIDE	< 0.10	0.10	0.2

SURROGATE STANDARDS	RECOVERY	QA/QC LIMITS
DIBROMOFLUOROMETHANE	96.2	76-114%
TOLUENE-D8	94.2	84-110%
4-BROMOFLUOROBENZENE	91.7	86-115%

NOTES: RESULTS ARE FROM ANOTHER LAB.  
< = LESS THAN

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.  
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,  
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID  
SR/dt



# Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

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Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

October 07, 2004

Mr. Jerry Wright  
Frontier Energy  
P.O. Box 7  
Maljamar, New Mexico 88264

Sample ID: Lab No. 1345:  
Maljamar  
R.O. Water Discharge  
Received 09/27/04

Compound	Method	Concentration	Units
Corrosivity	SW 9045	8.17	pH
Ignitability	SW 1010	> 200	Deg F
Reactive Cyanide	SW 7.3.4.1	ND	mg/L
Reactive Sulfide	SW 7.3.3.2	ND	mg/L

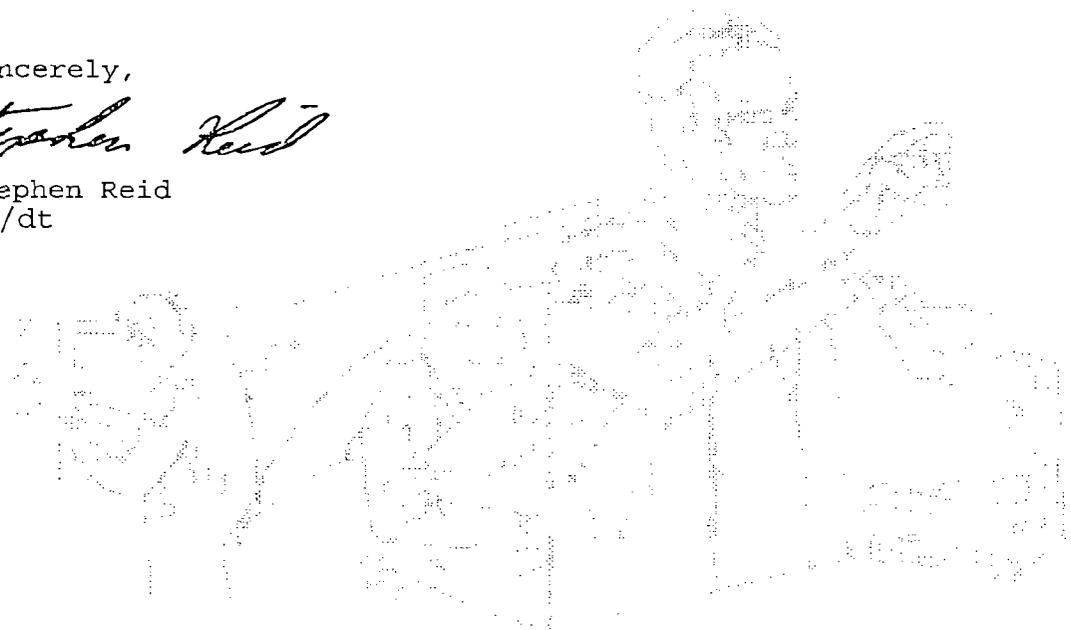
ND=Not Detected

NOTE: Results are from another Laboratory.

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please feel free to contact me at any time.

Sincerely,

Stephen Reid  
SR/dt



# Frontier

Field Services, LLC

Facsimile Transmission

Date  
**9/19/2003**

**From**

Employee <b>Johnny Lackey</b>	Ext. <b>505-676-3505</b>
City, State, Country <b>Maljamar, N.M.</b>	Room No.
Acct. No.	

**To**

Name <b>Wayne Price</b>	Phone No. <b>Fax 505-476-3462</b>
Department	Room No.
City, State Country	

No. of Pages

**6 + COVER****Note:**

1. *Your originals must have good contrast (dark detail on light background).*
2. *Legible.*
3. *½ Inch margin on all sides of sheet.*
4. *Number all pages.*

## Special Instructions

**Wayne, I'm faxing a copy of our annual Discharge Report for Playa Lake. Sorry it's a little late. I just got the results of the water analysis from Mobile Labs this morning. I am also mailing the originals to you, but wanted you to see the results as soon as possible. If you have questions or need additional information please give me a call at 505-676-3505.**

**Thanks,****Johnny Lackey**



Johnny Lackey  
Manager, Compliance  
Frontier Field Services, LLC  
Maljamar, NM

Frontier Field Services, LLC  
1001 Conoco Road  
P.O. Box 7  
Maljamar, NM 88264  
Phone 505-676-3505  
Cell 505-361-0128  
jlackey@frontierenergyllc.com

***Return Receipt Requested  
Certified Mail No.  
7002 0460 0000 3842 6525***

***September 18, 2003***

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

***Re: Annual Discharge Report for Conoco Playa Lake  
Discharge Plan GW-020  
Frontier Field Services Maljamar Gas Plant, Lea County***

Dear Mr. Price:

Frontier Energy Services Maljamar Gas Plant amended discharge plan allowing disposal of "Reverse Osmosis" wastewater into Conoco Production's Playa Lake requires metering to be recorded monthly and laboratory analysis of the water on an annual basis. Attached are the results of the analysis and the monthly meter readings as required.

If you have any questions or require more information please contact me at, 505-676-3505

Sincerely,

A handwritten signature in cursive script that reads "Johnny Lackey".

Johnny Lackey

# Frontier

Field Services, LLC

## MALJAMAR GAS PLANT

Monthly R.O. discharge to Playa Lake

Month	Meter/Reading	Gal/Month	BBL/Month	Cumilitive BBL	Monthly/Average
Jul 1 2001					
Aug 1 2001	5360	15160	361	361	361
Sept 1 2001	93160	93160	2218	2579	1290
Oct 1 2001	90240	90240	2149	4728	1576
Nov 1 2001	73650	73650	1754	6481	1620
Dec 1 2001	57270	57270	1364	7845	1569
Jan 1 2002	59090	59090	1407	9252	1542
Feb 1 2002	47580	47580	1133	10385	1484
Mar 1 2002	59090	59090	1407	11791	1474
Apr 1 2002	41580	41580	990	12781	1420
May 1 2002	41250	41250	982	13764	1376
Jun 1 2002	47580	47580	1133	14896	1354
Jul 1 2002	41520	41520	989	15885	1324
Aug 1 2002	6900	6900	164	16049	1235
Sept 1 2002	22200	22200	529	16578	1184
Oct 1 2002	14840	14840	353	16931	1129
Nov 1 2002	28404	28404	676	17607	1100
Dec 1 2002	28586	28586	681	18288	1076
Jan 1 2003	28510	28510	679	18967	1094
Feb 1 2003	20605	20605	491	19458	993
Mar 1 2003	20605	20605	491	19948	895
Apr 1 2003	20605	20605	491	20439	821
May 1 2003	20605	20605	491	20929	770
Jun 1 2003	18960	18960	451	21381	713
Jul 1 2003	10123	10123	241	21622	661
Aug 1 2003	10213	10213	243	21865	593
Sept 1 2003	10034	10034	239	22104	548
Oct 1 2003		-928360	-22104	0	-810
Nov 1 2003		0	0	0	-876
Dec 1 2003		0	0	0	-934



# Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

Billing Address: P.O. BOX 69210 • ODESSA, TEXAS 79769-0210

Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

SEPTEMBER 18, 2003

MR. JERRY WRIGHT  
FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

DEAR MR. WRIGHT:  
THE FOLLOWING ARE THE RESULTS OF THE MALJAMAR R.O. WATER  
DISCHARGE SAMPLE FOR TCLP SEMI-VOLATILES, RECEIVED 09/10/03,  
LAB NO. 1015:

ANALYTE	CONCENTRATION mg/L	DETECTION LIMIT mg/L	REGULATORY LIMIT mg/L
M+P-CRESOL	< 0.010	0.010	200.0
O-CRESOL	< 0.010	0.010	200.0
NITROBENZENE	< 0.010	0.010	2.0
1,4-DICHLOROBENZENE	< 0.010	0.010	7.5
3,3-DICHLOROBENZIDINE	< 0.010	0.010	0.8
2,4-DINITROTOLUENE	< 0.010	0.010	0.13
HEXACHLOROBENZENE	< 0.010	0.010	0.13
HEXACHLORO-1,3-BUTADIENE	< 0.010	0.010	0.5
HEXACHLOROETHANE	< 0.010	0.010	3.0
PENTACHLOROPHENOL	< 0.010	0.010	100.0
PYRIDINE	< 0.010	0.010	5.0
2,4,5-TRICHLOROPHENOL	< 0.010	0.010	400.0
2,4,6-TRICHLOROPHENOL	< 0.010	0.010	2.0

SURROGATE STANDARDS	RECOVERY	QA/QC LIMITS
2-FLUOROPHENOL	62%	35-114%
2-FLUOROBIPHENYL	80%	43-116%
2,4,6-TRIBROMOPHENOL	85%	10-123%
1,2 DICHLOROBENZENE D4	87%	33-141%

NOTES: RESULTS ARE FROM ANOTHER LAB.  
< = LESS THAN

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.  
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,  
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME

SINCERELY,

STEPHEN REID



# Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

Billing Address: P.O. BOX 69210 • ODESSA, TEXAS 79769-0210

Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

September 18, 2003

PHONE (432) 337-4744

FAX (432) 337-8781

Mr. Jerry Wright  
Frontier Energy  
P.O. Box 7  
Maljamar, New Mexico 88264

Sample ID: Lab No. 1015:  
Maljamar  
R.O. Water Discharge  
Sampled 09/09/03  
Received 09/10/03

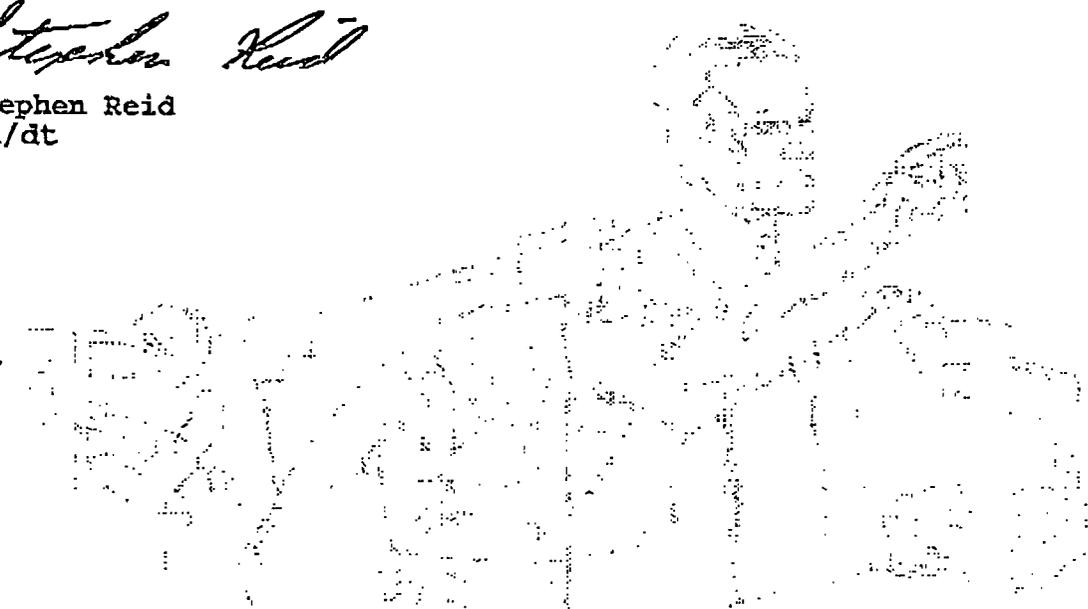
Compound	Method	Concentration	Units
Corrosivity	SW 9045	7.77	pH
Ignitability	SW 1010	> 230	Deg F
Reactive Cyanide	SW 7.3.4.1	< 0.1	mg/kg
Reactive Sulfide	SW 7.3.3.2	< 0.1	mg/kg

**NOTE:** Results are from another Laboratory.

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please feel free to contact me at any time.

Sincerely,

Stephen Reid  
SR/dt





## Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

Billing Address: P.O. BOX 69210 • ODESSA, TEXAS 79769-0210

Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79784

PHONE (432) 337-4744

FAX (432) 337-8781

SEPTEMBER 18, 2003

MR. JERRY WRIGHT  
FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

DEAR MR. WRIGHT:  
THE FOLLOWING ARE THE RESULTS OF THE MALJAMAR R.O. WATER  
DISCHARGE SAMPLE FOR TCLP METALS, RECEIVED 09/10/03,  
LAB NO. 1015:

TEST REQUESTED	TCLP METALS mg/L	REGULATORY LIMIT mg/L	DETECTION LIMIT mg/L
ARSENIC	< 0.01	5.00	0.01
BARIUM	< 1.0	100.00	1.0
CADMIUM	< 0.05	1.00	0.05
CHROMIUM	< 0.05	5.00	0.05
LEAD	< 0.05	5.00	0.05
SELENIUM	< 0.2	1.00	0.2
SILVER	< 0.1	5.00	0.1
MERCURY	< 0.05	0.20	0.05

NOTE: RESULTS ARE FROM ANOTHER LAB.

NOTE: < = LESS THAN  
METHOD: METALS EPA 1311

SAMPLES CONTAINING HAZARDOUS AND TOXIC SUBSTANCES WILL BE RETURNED TO THE POINT OF ORIGIN FOR DISPOSAL. IF THIS IS NOT POSSIBLE AND MOBILE LABS HAS TO DISPOSE OF THE SAMPLE IN ACCORDANCE WITH EPA REGULATIONS, THEN ADDITIONAL CHARGES WILL BE BILLED TO COVER THE COST OF DISPOSAL OF THIS SAMPLE.

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID



# Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

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Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

SEPTEMBER 18, 2003

MR. JERRY WRIGHT  
FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

DEAR MR. WRIGHT:  
THE FOLLOWING ARE THE RESULTS OF THE MALJAMAR R.O. WATER  
DISCHARGE SAMPLE FOR TCLP VOLATILES, RECEIVED 09/10/03,  
LAB NO. 1015:

ANALYTE	CONCENTRATION mg/L	DETECTION LIMIT mg/L	REGULATORY LIMIT mg/L
BENZENE	< 0.010	0.010	0.5
CARBON TETRACHLORIDE	< 0.010	0.010	0.5
CHLOROBENZENE	< 0.010	0.010	100.0
CHLOROFORM	< 0.010	0.010	6.0
1,2-DICHLOROETHANE	< 0.010	0.010	0.5
2-BUTANONE (MEK)	< 0.010	0.010	200.0
1,1-DICHLOROETHENE	< 0.010	0.010	0.7
TETRACHLOROETHENE	< 0.010	0.010	0.7
TRICHLOROETHENE	< 0.010	0.010	0.5
VINYL CHLORIDE	< 0.010	0.010	0.2

SURROGATE STANDARDS	RECOVERY	QA/QC LIMITS
DIBROMOFLUOROMETHANE	98%	76-114%
TOLUENE-D8	93%	84-110%
4-BROMOFLUOROBENZENE	91%	86-115%

NOTES: RESULTS ARE FROM ANOTHER LAB.  
< = LESS THAN

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.  
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION,  
PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID  
SR/dt

Johnny Lackey  
Manager, Compliance  
Frontier Field Services, LLC  
Maljamar, NM

Frontier Field Services, LLC  
1001 Conoco Road  
P.O. Box 7  
Maljamar, NM 88264  
Phone 505-676-3505  
Cell 505-361-0128  
jlackey@frontierenergyllc.com

RECEIVED

SEP 22 2003

OIL CONSERVATION  
DIVISION

***Return Receipt Requested  
Certified Mail No.  
7002 0460 0000 3842 6525***

***September 18, 2003***

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

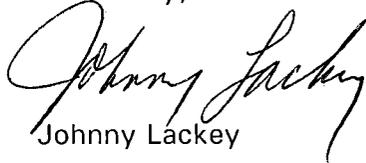
***Re: Annual Discharge Report for Conoco Playa Lake  
Discharge Plan GW-020  
Frontier Field Services Maljamar Gas Plant, Lea County***

Dear Mr. Price:

Frontier Energy Services Maljamar Gas Plant amended discharge plan allowing disposal of "Reverse Osmosis" wastewater into Conoco Production's Playa Lake requires metering to be recorded monthly and laboratory analysis of the water on an annual basis. Attached are the results of the analysis and the monthly meter readings as required.

If you have any questions or require more information please contact me at, 505-676-3505

Sincerely,

  
Johnny Lackey

# Frontier

Field Services, LLC

## MALJAMAR GAS PLANT

Monthly R.O. discharge to Playa Lake

Month	Meter/Reading	Gal/Month	BBL/Month	Cumlitive BBL	Monthly/Average
Jul 1 2001	0				
Aug 1 2001	15160	15160	361	361	361
Sept 1 2001	108320	93160	2218	2579	1290
Oct 1 2001	198560	90240	2149	4728	1576
Nov 1 2001	272210	73650	1754	6481	1620
Dec 1 2001	329480	57270	1364	7845	1569
Jan 1 2002	388570	59090	1407	9252	1542
Feb 1 2002	436150	47580	1133	10385	1484
Mar 1 2002	495240	59090	1407	11791	1474
Apr 1 2002	536820	41580	990	12781	1420
May 1 2002	578070	41250	982	13764	1376
Jun 1 2002	625650	47580	1133	14896	1354
Jul 1 2002	667170	41520	989	15885	1324
Aug 1 2002	674070	6900	164	16049	1235
Sept 1 2002	696270	22200	529	16578	1184
Oct 1 2002	711110	14840	353	16931	1129
Nov 1 2002	739514	28404	676	17607	1100
Dec 1 2002	768100	28586	681	18288	1076
Jan 1 2003	796610	28510	679	18967	1094
Feb 1 2003	817215	20605	491	19458	993
Mar 1 2003	837820	20605	491	19948	895
Apr 1 2003	858425	20605	491	20439	821
May 1 2003	879030	20605	491	20929	770
Jun 1 2003	897990	18960	451	21381	713
Jul 1 2003	908113	10123	241	21622	661
Aug 1 2003	918326	10213	243	21865	593
Sept 1 2003	928360	10034	239	22104	548
Oct 1 2003		-928360	-22104	0	-810
Nov 1 2003		0	0	0	-876
Dec 1 2003		0	0	0	-934



*Mobile Analytical Laboratories, Inc.*

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

Billing Address: P.O. BOX 69210 • ODESSA, TEXAS 79769-0210

Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

SEPTEMBER 18, 2003

MR. JERRY WRIGHT  
FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

DEAR MR. WRIGHT:  
THE FOLLOWING ARE THE RESULTS OF THE MALJAMAR R.O. WATER  
DISCHARGE SAMPLE FOR TCLP SEMI-VOLATILES, RECEIVED 09/10/03,  
LAB NO. 1015:

ANALYTE	CONCENTRATION mg/L	DETECTION LIMIT mg/L	REGULATORY LIMIT mg/L
M+P-CRESOL	< 0.010	0.010	200.0
O-CRESOL	< 0.010	0.010	200.0
NITROBENZENE	< 0.010	0.010	2.0
1,4-DICHLOROBENZENE	< 0.010	0.010	7.5
3,3-DICHLOROBENZIDINE	< 0.010	0.010	0.8
2,4-DINITROTOLUENE	< 0.010	0.010	0.13
HEXACHLOROBENZENE	< 0.010	0.010	0.13
HEXACHLORO-1,3-BUTADIENE	< 0.010	0.010	0.5
HEXACHLOROETHANE	< 0.010	0.010	3.0
PENTACHLOROPHENOL	< 0.010	0.010	100.0
PYRIDINE	< 0.010	0.010	5.0
2,4,5-TRICHLOROPHENOL	< 0.010	0.010	400.0
2,4,6-TRICHLOROPHENOL	< 0.010	0.010	2.0

SURROGATE STANDARDS	RECOVERY	QA/QC LIMITS
2-FLUOROPHENOL	62%	35-114%
2-FLUOROBIPHENYL	80%	43-116%
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1,2 DICHLOROBENZENE D4	87%	33-141%

NOTES: RESULTS ARE FROM ANOTHER LAB.  
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SINCERELY,

STEPHEN REID  
SR/dt



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September 18, 2003

PHONE (432) 337-4744

FAX (432) 337-8781

Mr. Jerry Wright  
 Frontier Energy  
 P.O. Box 7  
 Maljamar, New Mexico 88264

Sample ID: Lab No. 1015:  
 Maljamar  
 R.O. Water Discharge  
 Sampled 09/09/03  
 Received 09/10/03

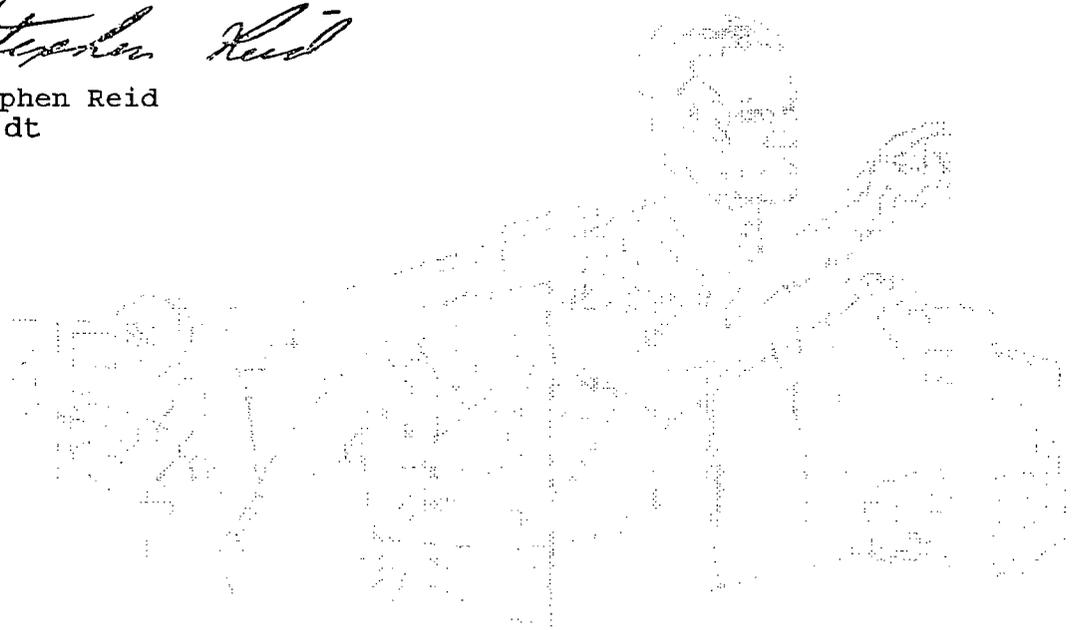
Compound	Method	Concentration	Units
Corrosivity	SW 9045	7.77	pH
Ignitability	SW 1010	> 230	Deg F
Reactive Cyanide	SW 7.3.4.1	< 0.1	mg/kg
Reactive Sulfide	SW 7.3.3.2	< 0.1	mg/kg

**NOTE:** Results are from another Laboratory.

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please feel free to contact me at any time.

Sincerely,

Stephen Reid  
 SR/dt





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TEST REQUESTED	TCLP METALS mg/L	REGULATORY LIMIT mg/L	DETECTION LIMIT mg/L
ARSENIC	< 0.01	5.00	0.01
BARIUM	< 1.0	100.00	1.0
CADMIUM	< 0.05	1.00	0.05
CHROMIUM	< 0.05	5.00	0.05
LEAD	< 0.05	5.00	0.05
SELENIUM	< 0.2	1.00	0.2
SILVER	< 0.1	5.00	0.1
MERCURY	< 0.05	0.20	0.05

NOTE: RESULTS ARE FROM ANOTHER LAB.

NOTE: < = LESS THAN  
METHOD: METALS EPA 1311

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SINCERELY,

STEPHEN REID  
SR/dt



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SEPTEMBER 18, 2003

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FRONTIER ENERGY  
P.O. BOX 7  
MALJAMAR, NEW MEXICO 88264

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CHLOROBENZENE	< 0.010	0.010	100.0
CHLOROFORM	< 0.010	0.010	6.0
1,2-DICHLOROETHANE	< 0.010	0.010	0.5
2-BUTANONE (MEK)	< 0.010	0.010	200.0
1,1-DICHLOROETHENE	< 0.010	0.010	0.7
TETRACHLOROETHENE	< 0.010	0.010	0.7
TRICHLOROTHENE	< 0.010	0.010	0.5
VINYL CHLORIDE	< 0.010	0.010	0.2

SURROGATE STANDARDS	RECOVERY	QA/QC LIMITS
DIBROMOFLUOROMETHANE	98%	76-114%
TOLUENE-D8	93%	84-110%
4-BROMOFLUOROBENZENE	91%	86-115%

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SINCERELY,

STEPHEN REID  
SR/dt



**Mark Bishop**  
Environmental Specialist  
SH&E Services  
Conoco Gas & Power

**Conoco Inc.**  
921 West Sanger  
Hobbs, NM 88240  
Phone 505-391-1956  
Cell (281) 380-0018  
E-mail [mark.a.bishop@conoco.com](mailto:mark.a.bishop@conoco.com)

August 20, 2002

Return Receipt Requested  
Certified Mail No.  
**7099 3220 0001 4997 2820**

02 SEP -9 PM 1:48  
OIL CONSERVATION DIV.

State Of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Frances Dr.  
Santa Fe, NM 87505

**Re: Annual Discharge Report  
Discharge Plan GW-020  
Conoco Maljamar Gas Plant, Lea County**

Dear Mr. Price:

Attached is the Maljamar Plant testing reports as required in our GW-020 discharge permit dated May 18, 2000, amended July 27, 2000 and modified May 21, 2001. Some of the information has already been submitted.

If you have any questions or require more information please contact me at 505-391-1956.

Sincerely,

*Mark Bishop*  
Mark Bishop

CC: Joyce Miley  
HL Brooks  
File: Env 2859

**Conoco Maljamar gas plant OCD open**  
**Drain test records**  
**July 15, 2002**

**Sump testing**

Conoco notified Mr. Larry Johnson of the Hobbs office on July 11 of our intent to inspect the Maljamar sumps using the same procedure as done earlier this year. The sumps were filled the previous day and the level was marked and observed 24 hours later to inspect for seepage.

- **Train #1 Expander sump;** Top of tank 4 ft. 1 inch. Drain and cleaned sump filled with fresh water for a 24 hr. test  
7-23-02 8:00AM water level 3 ft. 3 inches.  
7-24-02 8:00AM water level 3 ft. 3 inches.  
Test results, no leaks level remained steady.
- **Train #2 Expander sump;** Top of tank 4 ft. 1 inch. Drain and cleaned sump filled with fresh water for a 24 hr. test.  
7-23-02 8:45AM level 3 ft. 6 inches.  
7-24-02 8:45AM level 3 ft. 6 inches.  
Test results; no leaks level remained steady.
- **Electric building sump;** Top of tank 9 ft. 5 inches. Drained and cleaned sump filled with fresh water for a 24 hr. test.  
7-23-02 12:00PM level 7 ft. 9 inches.  
7-24-02 12:00PM level 7 ft. 9 inches.  
Test results; no leaks level remained steady.
- **Amine sump tank;** Top of tank 4 ft. 1 inches. Drained and cleaned sump filled with fresh water for a 24 hr. test.  
9:00 a.m. 7-23-02 level 3 ft. 7 inches.  
9:00 a.m. 7-24-02 level 3ft. 7 inches.  
Test results; no leaks level remained steady.
- **#601 #602 sump tank;** Top of tank riser 10 ft. 9 inches. Drained and cleaned sump filled with fresh water for a 24 hr. test.  
4:00 p.m. 7-22-02 level 6 ft. 2 inches.  
4:00 p.m. 7-23-02 level 6 ft. 2 inches.  
Test results; no leaks level remained steady.
- **#8 Clark containment;** Cleaned out and visual inspection was conducted no leaks detected outside of containment.



**Mark Bishop**  
Environmental Specialist  
SH&E Services  
Conoco Gas & Power

**Conoco Inc.**  
921 West Sanger  
Hobbs, NM 88240  
Phone 505-391-1956  
Cell (281) 380-0018  
E-mail [mark.a.bishop@conoco.com](mailto:mark.a.bishop@conoco.com)

August 20, 2002

State Of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Frances Dr.  
Santa Fe, NM 87505

**Re: Annual Discharge Report for the Conoco Playa Lake  
Discharge Plan GW-020  
Conoco Maljamar Gas Plant, Lea County**

Dear Mr. Price:

On behalf of the Conoco Maljamar Gas Plant I am pleased to provide the meter readings, flow data, and water analysis as required by our amended discharge plan allowing reverse osmosis treated wastewater to be discharged into the Conoco Playa Lake Wildlife Habitat project area. The amended discharge plan requires annual reporting ending in September of each year. As you will see from the attached chemical analysis, the wastewater is still of exceptional quality.

If you have any questions or require more information please contact me at 505-393-2153.

Sincerely,

  
Mark Bishop

CC: Joyce Miley  
HL Brooks  
File: Env 2859

Monthly R.O. discharge to Playa Lake

Month	Meter/Reading	Gal/Month	BBL/Month	Cumlitive BBL	Monthly/Average
Jul 1 2001	0				
Aug 1 2001	15160	15160	361	361	361
Sept 1 2001	108320	93160	2218	2579	1290
Oct 1 2001	198560	90240	2149	4728	1576
Nov 1 2001	272210	73650	1754	6481	1620
Dec 1 2001	329480	57270	1364	7845	1569
Jan 1 2002	388570	59090	1407	9252	1542
Feb 1 2002	436150	47580	1133	10385	1484
Mar 1 2002	495240	59090	1407	11791	1474
Apr 1 2002	536820	41580	990	12781	1420
May 1 2002	578070	41250	982	13764	1376
Jun 1 2002	625650	47580	1133	14896	1354
Jul 1 2002	667170	41520	989	15885	1324
Aug 1 2002	674070	6900	164	16049	1235
Sept 1 2002	696270	22200	529	16578	1184
Oct 1 2002		-696270	-16578	0	0
Nov 1 2002		0	0	0	0
Dec 1 2002		0	0	0	0



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240

Receiving Date: 08/14/02  
 Reporting Date: 08/15/02  
 Project Number: NOT GIVEN  
 Project Name: CONOCO PLAYA LAKE WATER FROM RO UNIT  
 Project Location: MALJAMAR GAS PLANT

FAX TO:

Sampling Date: 08/13/02  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: AH  
 Analyzed By: AH/BC

REACTIVITY

LAB NO. SAMPLE ID Sulfide (ppm) Cyanide (ppm) CORROSIVITY (pH) IGNITABILITY (°F)

LAB NO.	SAMPLE ID	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		08/15/02	08/15/02	08/14/02	08/15/02
H6954-1	-	Not reactive	Not reactive	7.34	>140
Quality Control		NR	NR	7.01	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	2.2	NR

METHOD: EPA SW-846 7.3, 7.2, 1010, 1311, 40 CFR 261

*Burgess G. Cochran*  
 Chemist

8/15/02  
 Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. **H6954-1** Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
CONOCO, INC.  
ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 08/14/02

Reporting Date: 08/15/02

Project Number: NOT GIVEN

Project Name: CONOCO PLAYA LAKE WATER FROM RO UNIT

Project Location: MALJAMAR GAS PLANT

Lab Number: H6954-1

Sample ID: -

Analysis Date: 08/14/02

Sampling Date: 08/13/02

Sample Type: GROUNDWATER

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6954-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.041	82	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.033	66	0.050
o-Cresol	200	<0.020	<0.005	0.044	88	0.050
m, p-Cresol	200	<0.020	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.029	58	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.044	88	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.033	66	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.053	106	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.052	104	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.053	106	0.050
Pentachlorophenol	100	<0.020	<0.005	0.046	92	0.050

### % RECOVERY

Fluorophenol	42
Phenol-d5	34
Nitrobenzene-d5	74
2-Fluorobiphenyl	69
2,4,6-Tribromophenol	84
Terphenyl-d14	67

METHODS: EPA SW-846 1311, 8270, 3510

  
Burgess J. A. Cobke, Ph. D.

  
Date

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ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 08/14/02  
 Reporting Date: 08/15/02  
 Project Number: NOT GIVEN  
 Project Name: CONOCO PLAYA LAKE WATER FROM RO UNIT  
 Project Location: MALJAMAR GAS PLANT  
 Lab Number: H6954-1  
 Sample ID: -

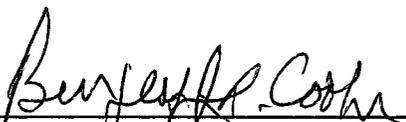
Analysis Date: 08/14/02  
 Sampling Date: 08/13/02  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: AH  
 Analyzed By: BC

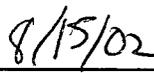
TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6954-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.109	109	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.087	87	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.090	90	0.100
Benzene	0.5	<0.005	<0.005	0.114	114	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.109	109	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.101	101	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.091	91	0.100

% RECOVERY

Dibromofluoromethane	81
Toluene-d8	84
Bromofluorobenzene	87

METHODS: EPA SW 846-8260, 1311

  
 Burgess J. A. Cooke, Ph. D.

  
 Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 08/14/02  
 Reporting Date: 08/15/02  
 Project Number: NOT GIVEN  
 Project Name: CONOCO PLAYA LAKE WATER FROM RO UNIT  
 Project Location: MALJAMAR GAS PLANT

Sampling Date: 08/13/02  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL AND INTACT  
 Sample Received By: AH  
 Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
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ANALYSIS DATE:	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02	08/15/02
EPA LIMITS:	5	5	100	1	5	5	0.2	1	
H6954-1	-	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control	0.047	4.886	24.77	0.896	4.968	5.050	0.0100	0.054	
True Value QC	0.050	5.000	25.00	1.000	5.000	5.000	0.0100	0.050	
% Recovery	94.0	97.7	99.1	89.6	99.4	101	100	108.0	
Relative Standard Deviation	5.7	0.1	5.7	1.5	0.3	1.4	0.1	6.2	

METHODS: EPA 1311, 600/4-91	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2	
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*Amy Hill*  
 Chemist

8-15-02  
 Date

h6954

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NMI 88240  
(916) 673-7001 Fax (916) 673-7020 (506) 393-2326 Fax (506) 393-2476

Page \_\_\_\_\_ of \_\_\_\_\_

BILL TO		ANALYSIS REQUEST									
Company Name: <u>Conoco Inc</u>		P.O. #:		Company:		PRESERV.		SAMPLING			
Project Manager: <u>Mark Bishop</u>		Address: <u>921 W Sanger</u>		Attn: <u>State: NM</u>		ACID/BASE:		DATE		TIME	
City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>		OTHER:		8/13/08			
Phone #: <u>391 1956</u>		Fax #:		City:		ICE / COOL					
Project #:		Project Owner:		State:		OTHER:					
Project Name: <u>Conoco Pkya Lake water from Round</u>		Project Location: <u>Maljamar Gas Plant</u>		Phone #:		STUDGE					
Sampler Name: <u>Mark Bishop</u>		Matrix:		Fax #:		OIL					
		GROUNDWATER				WASTEWATER					
		# CONTAINERS				OTHER:					
		(G)RAB OR (COMP.				ACID/BASE:					
Lab I.D. <u>116954-1</u>		Sample I.D.				OTHER:					
FOR LAB USE ONLY											

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Sampler Requisitioned By: Mark Bishop Date: 8/13/08 Received By: \_\_\_\_\_  
 Time: 1:20 PM  
 Relinquished By: \_\_\_\_\_  
 Delivered By: (Circle One) \_\_\_\_\_  
 Sampler - JPS - Bus - Other: \_\_\_\_\_

Received By: (Lab Staff) Jimmy Hill Checked \_\_\_\_\_  
 Sample Condition Intact? \_\_\_\_\_  
 Temp, °C \_\_\_\_\_ Yes  No   
 (Initials)

Phone Result:  Yes  No  
 Fax Result:  Yes  No  
 REMARKS: COMPLETE TCP

† Cardinal cannot accept verbal changes. Please fax written changes to (916) 673-7020.



**Mark Bishop**  
Environmental Specialist  
SH&E Services  
Natural Gas & Gas Products

**Conoco Inc.**  
921 West Sanger  
Hobbs, NM 88240  
Phone 505-393-2153  
Cell (281) 380-0018  
E-mail [mark.a.bishop@usa.conoco.com](mailto:mark.a.bishop@usa.conoco.com)

OIL CONSERVATION DIV.  
SEP 13 AM 11:39

9/5/2001

**Return Receipt Requested  
Certified Mail No.  
7099 3220 0001 4997 4749**

State Of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Frances Dr.  
Santa Fe, NM 87505

**Re: Annual Discharge Report for the Conoco Playa Lake  
Discharge Plan GW-020  
Conoco Maljamar Gas Plant, Lea County**

Dear Mr. Price:

On behalf of the Conoco Maljamar Gas Plant I am pleased to provide the first meter readings and water analysis as required by our amended discharge plan allowing reverse osmosis wastewater to be discharged into the Conoco Playa Lake Wildlife Habitat project area. The amended discharge plan requires annual reporting ending in September of each year. As you will see from the attached chemical analysis, the wastewater is still of exceptional quality. The meter readings actually show a higher volume of water than earlier estimated which is a good thing for a change. I would like to thank you, the OCD and the Bureau of Land Management for your cooperation and help in this endeavor. Not only are we saving the company money but helping the environment in the process. It is a prime example of the efforts of "Sustainable Development" that Conoco president Archie Dunham has been emphasizing.

If you have any questions or require more information please contact me at 505-393-2153.

Sincerely,

*Mark Bishop*

Mark Bishop

CC: Joyce Miley  
HL Brooks  
File: Env 215-1



**Mark Bishop**  
Environmental Specialist  
SH&E Services  
Natural Gas & Gas Products

**Conoco Inc.**  
921 West Sanger  
Hobbs, NM 88240  
Phone 505-393-2153  
Cell (281) 380-0018  
E-mail [mark.a.bishop@usa.conoco.com](mailto:mark.a.bishop@usa.conoco.com)

#### Monthly Reverse Osmosis wastewater Meter Readings

August 1, 2001 - 17,786 gallons  
September 1, 2001 - 113,834 gallons  
131620 total gallons



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ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 07/23/01  
 Reporting Date: 07/26/01  
 Project Number: NOT GIVEN  
 Project Name: CONOCO PLAYA LAKE PROJECT  
 Project Location: MALJAMAR GAS PLANT

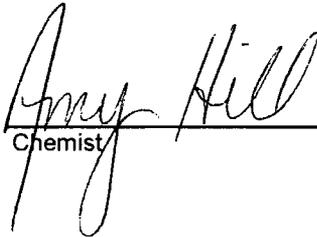
Sampling Date: 07/23/01  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		07/24/01	07/24/01	07/24/01	07/24/01	07/24/01	07/24/01
H6011-1	MALJAMAR RO WATER	82	19	13	30	638	199
Quality Control		NR	47	44	5.02	1489	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	94.9	88.5	100	105	NR
Relative Percent Difference		NR	8.5	13.6	5.2	0.3	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		07/24/01	07/24/01	07/24/01	07/24/01	07/25/01
H6011-1	MALJAMAR RO WATER	45	53	0	243	7.75
Quality Control		936	51.06	NR	1011	6.90
True Value QC		1000	50.00	NR	1000	7.00
% Recovery		93.6	102	NR	101	98.6
Relative Percent Difference		6.0	0	NR	0	0.1

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

  
 Chemist

7-26-01  
 Date

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ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 07/23/01  
 Reporting Date: 07/26/01  
 Project Number: NOT GIVEN  
 Project Name: CONOCO PLAYA LAKE PROJECT  
 Project Location: MALJAMAR GAS PLANT

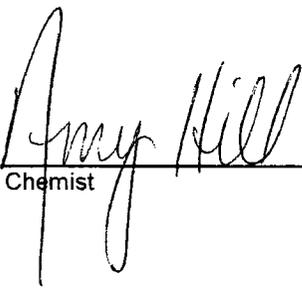
Sampling Date: 07/23/01  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: AH

RCRA METALS

LAB NUMBER SAMPLE ID                      As              Ag              Ba              Cd              Cr              Pb              Hg              Se  
    ppm              ppm              ppm              ppm              ppm              ppm              ppm              ppm

ANALYSIS DATE:	07/25/01	07/25/01	07/25/01	07/25/01	07/25/01	07/25/01	07/25/01	07/25/01	07/25/01
H6011-1 MALJAMAR RO WATER	<0.1	<0.05	<1	<0.01	<0.05	<0.05	<0.05	<0.002	<0.05
Quality Control	0.207	4.447	24.48	1.054	0.997	4.866	0.00975	0.050	0.050
True Value QC	0.200	5.000	25.00	1.000	1.000	5.000	0.01000	0.050	0.050
% Recovery	104	88.9	97.9	105	99.7	97.3	97.5	100	100
Relative Percent Difference	4.3	0.7	7.5	1.0	3.1	0.4	2.6	8.7	8.7

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

  
 Chemist

  
 Date

H6011M.XLS

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ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 07/23/01  
 Reporting Date: 07/26/01  
 Project Number: NOT GIVEN  
 Project Name: CONOCO PLAYA LAKE PROJECT  
 Project Location: MALJAMAR GAS PLANT

Sampling Date: 07/23/01  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: AH

TOTAL METALS

LAB NUMBER	SAMPLE ID	Al (ppm)	Co (ppm)	Cu (ppm)	Fe (ppm)
ANALYSIS DATE:		07/25/01	07/25/01	07/25/01	07/25/01
H6011-1	MALJAMAR RO WATER	<2	<0.05	<0.5	1.686
Quality Control		11.11	1.006	1.007	4.978
True Value QC		10.00	1.000	1.000	5.000
% Recovery		111	101	101	99.6
Relative Percent Difference		2.9	0.8	0.8	0.8
METHODS: EPA 600/04-79-020		202.1	219.1	220.1	236.1

LAB NUMBER	SAMPLE ID	Mn (ppm)	Mo (ppm)	Ni (ppm)	Zn (ppm)
ANALYSIS DATE:		07/25/01	07/25/01	07/25/01	07/25/01
H6011-1	MALJAMAR RO WATER	<0.2	<0.05	<0.2	<1
Quality Control		0.993	2.117	1.048	0.497
True Value QC		1.000	2.000	1.000	0.500
% Recovery		99.3	106	105	99.4
Relative Percent Difference		0.2	6.3	2.2	0.6
METHODS: EPA 600/04-79-020		243.1	246.1	249.1	289.1

*Amy Hill*  
 Chemist

7-26-01  
 Date

H6011M2.XLS

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ANALYTICAL RESULTS FOR  
CONOCO, INC.

ATTN: MARK BISHOP  
921 W. SANGER  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 07/23/01  
Reporting Date: 07/27/01  
Project Owner: CONOCO  
Project Name: CONOCO PLAYA LAKE PROJECT  
Project Location: MALJAMAR GAS PLANT  
Sample ID: MALJAMAR RO WATER  
Lab Number: H6011-1

Extraction Date: 07/25/01  
Analysis Date: 07/26/01  
Sampling Date: 07/23/01  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

SEMIVOLATILES - 8270 (ppm)	Sample Result H6011-1	Method Blank	True Value		
			QC	% Recov.	QC
36 Hexachlorocyclopentadiene	<0.005	<0.005	0.024	48	0.050
37 2,4,6-Trichlorophenol	<0.005	<0.005	0.044	88	0.050
38 2,4,5-Trichlorophenol	<0.005	<0.005	0.047	94	0.050
39 2-Chloronaphthalene	<0.005	<0.005	0.040	80	0.050
40 2-Nitroaniline	<0.005	<0.005	0.041	82	0.050
41 Acenaphthylene	<0.005	<0.005	0.040	80	0.050
42 Dimethylphthalate	<0.005	<0.005	0.047	94	0.050
43 2,6-Dinitrotoluene	<0.005	<0.005	0.046	92	0.050
44 3-Nitroaniline	<0.005	<0.005	0.037	74	0.050
45 Acenaphthene	<0.005	<0.005	0.040	80	0.050
46 2,4-Dinitrophenol	<0.005	<0.005	0.042	84	0.050
47 Dibenzofuran	<0.005	<0.005	0.041	82	0.050
48 Pentachlorobenzene	<0.005	<0.005	0.043	86	0.050
49 4-Nitrophenol	<0.005	<0.005	0.045	90	0.050
50 1-Naphthylamine	<0.005	<0.005	0.021	42	0.050
51 2,4-Dinitrotoluene	<0.005	<0.005	0.042	84	0.050
52 2-Naphthylamine	<0.005	<0.005	0.028	56	0.050
53 2,3,4,6-Tetrachlorophenol	<0.005	<0.005	0.046	92	0.050
54 Fluorene	<0.005	<0.005	0.043	86	0.050
55 4-Chlorophenyl-phenylether	<0.005	<0.005	0.047	94	0.050
56 Diethylphthalate	<0.005	<0.005	0.047	94	0.050
57 4-Nitroaniline	<0.005	<0.005	0.044	88	0.050
58 4,6-Dinitro-2-methylphenol	<0.005	<0.005	0.046	92	0.050
59 Diphenylamine	<0.005	<0.005	0.047	94	0.050
60 n-Nitrosodiphenylamine	<0.005	<0.005	0.047	94	0.050
61 4-Bromophenyl-phenylether	<0.005	<0.005	0.045	90	0.050
62 Phenacetin	<0.005	<0.005	0.044	88	0.050
63 Hexachlorobenzene	<0.005	<0.005	0.044	88	0.050
64 4-Aminobiphenyl	<0.005	<0.005	0.022	44	0.050
65 Pentachlorophenol	<0.005	<0.005	0.049	98	0.050
66 Pentachloronitrobenzene	<0.005	<0.005	0.046	92	0.050
67 Pronamide	<0.005	<0.005	0.051	102	0.050
68 Phenanthrene	<0.005	<0.005	0.042	84	0.050
69 Anthracene	<0.005	<0.005	0.041	82	0.050
70 Di-n-butylphthalate	<0.005	<0.005	0.047	94	0.050

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ANALYTICAL RESULTS FOR  
CONOCO, INC.

ATTN: MARK BISHOP  
921 W. SANGER

HOBBS, NM 88240

FAX TO:

Receiving Date: 07/23/01

Reporting Date: 07/27/01

Project Owner: CONOCO

Project Name: CONOCO PLAYA LAKE PROJECT

Project Location: MALJAMAR GAS PLANT

Sample ID: MALJAMAR RO WATER

Lab Number: H6011-1

Extraction Date: 07/25/01

Analysis Date: 07/26/01

Sampling Date: 07/23/01

Sample Type: GROUNDWATER

Sample Condition: COOL & INTACT

Sample Received By: BC

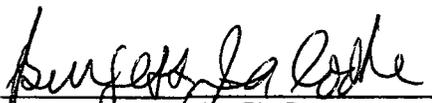
Analyzed By: BC

SEMIVOLATILES - 8270 (ppm)	Sample Result	Method	True Value		
	H6011-1	Blank	QC	% Recov.	QC
71 Fluoranthene	<0.005	<0.005	0.048	96	0.050
72 Benzidine	<0.005	<0.005	0.001	2	0.050
73 Pyrene	<0.005	<0.005	0.050	100	0.050
74 p-(Dimethylamino)azobenzene	<0.005	<0.005	0.052	104	0.050
75 Butylbenzylphthalate	<0.005	<0.005	0.059	118	0.050
76 Benzo[a]anthracene	<0.005	<0.005	0.044	88	0.050
77 3,3'-Dichlorobenzidine	<0.005	<0.005	0.037	74	0.050
78 Chrysene	<0.005	<0.005	0.044	88	0.050
79 bis (2-Ethylhexyl) phthalate	0.007	<0.005	0.055	110	0.050
80 Di-n-octylphthalate	<0.005	<0.005	0.047	94	0.050
81 Benzo [b] fluoranthene	<0.005	<0.005	0.049	98	0.050
82 Benzo [k] fluoranthene	<0.005	<0.005	0.048	96	0.050
83 7,12-Dimethylbenz (a) anthracene	<0.005	<0.005	0.064	128	0.050
84 Benzo [a] pyrene	<0.005	<0.005	0.044	88	0.050
85 3- Methylcholanthrene	<0.005	<0.005	0.042	84	0.050
86 Dibenzo (a,j) acridine	<0.005	<0.005	0.023	46	0.050
87 Indeno [1,2,3-cd] pyrene	<0.005	<0.005	0.040	80	0.050
88 Dibenz [a,h] anthracene	<0.005	<0.005	0.039	78	0.050
89 Benzo [g,h,i] perylene	<0.005	<0.005	0.039	78	0.050

% Recovery

90 2-Fluorophenol	38
91 Phenol-d5	34
92 Nitrobenzene-d5	80
93 2-Fluorobiphenyl	73
94 2,4,6-Tribromophenol	92
95 Terphenyl-d14	80

METHODS: EPA SW 846-8270

  
Burgess V. A. Cooke, Ph. D.

7/27/01  
Date



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 07/23/01  
 Reporting Date: 07/24/01  
 Project Owner: CONOCO  
 Project Name: CONOCO PLAYA LAKE PROJECT  
 Project Location: MALJAMAR GAS PLANT  
 Sample ID: MALJAMAR RO WATER  
 Lab Number: H6011-1

Analysis Date: 07/23/01  
 Sampling Date: 07/23/01  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: BC

VOLATILES - 8260 (ppm)	Sample Result H6011-1	Method Blank	QC	%Recov.	True Value QC
1 Dichlorodifluoromethane	<0.002	<0.002	0.102	102	0.100
2 Chloromethane	<0.002	<0.002	0.105	105	0.100
3 Vinyl chloride	<0.002	<0.002	0.097	97	0.100
4 Bromomethane	<0.002	<0.002	0.101	101	0.100
5 Chloroethane	<0.002	<0.002	0.100	100	0.100
6 Iodomethane	<0.002	<0.002	0.112	112	0.100
7 1,1-Dichloroethene	<0.002	<0.002	0.101	101	0.100
8 Trichlorofluoromethane	<0.002	<0.002	0.106	106	0.100
9 Carbon Disulfide	<0.002	<0.002	0.109	109	0.100
10 Methylene chloride	<0.002	<0.002	0.113	113	0.100
11 trans-1,2-Dichloroethene	<0.002	<0.002	0.109	109	0.100
12 1,1-Dichloroethane	<0.002	<0.002	0.116	116	0.100
13 2-Butanone	<0.050	<0.050	0.086	86	0.100
14 cis-1,2-Dichloroethene	<0.002	<0.002	0.110	110	0.100
15 2,2-Dichloropropane	<0.002	<0.002	0.110	110	0.100
16 Chloroform	0.003	<0.002	0.110	110	0.100
17 Bromochloromethane	<0.002	<0.002	0.114	114	0.100
18 1,1,1-Trichloroethane	<0.002	<0.002	0.106	106	0.100
19 1,2-Dichloroethane	<0.002	<0.002	0.107	107	0.100
20 1,1-Dichloropropene	<0.002	<0.002	0.110	110	0.100
21 Benzene	<0.002	<0.002	0.109	109	0.100
22 Carbon tetrachloride	<0.002	<0.002	0.097	97	0.100
23 Trichloroethene	<0.002	<0.002	0.105	105	0.100
24 Dibromomethane	<0.002	<0.002	0.103	103	0.100
25 Bromodichloromethane	0.008	<0.002	0.105	105	0.100
26 (2-Chloroethoxy)ethene	<0.002	<0.002	0.100	100	0.100
27 trans-1,3-Dichloropropene	<0.002	<0.002	0.105	105	0.100
28 4-Methyl-2-pentanone	<0.050	<0.050	0.094	94	0.100
29 1,2-Dichloropropane	<0.002	<0.002	0.102	102	0.100
30 cis-1,3-Dichloropropene	<0.002	<0.002	0.099	99	0.100
31 Toluene	<0.002	<0.002	0.102	102	0.100

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ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 07/23/01  
 Reporting Date: 07/24/01  
 Project Owner: CONOCO  
 Project Name: CONOCO PLAYA LAKE PROJECT  
 Project Location: MALJAMAR GAS PLANT  
 Sample ID: MALJAMAR RO WATER  
 Lab Number: H6011-1

Analysis Date: 07/23/01  
 Sampling Date: 07/23/01  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: BC

VOLATILES - 8260 (ppm)		Sample Result	Method	True Value		
		H6011-1	Blank	QC %Recov.	QC	
32	1,1,2-Trichloroethane	<0.002	<0.002	0.095	95	0.100
33	1,3-Dichloropropane	<0.002	<0.002	0.101	101	0.100
34	2-Hexanone	<0.050	<0.050	0.083	83	0.100
35	Dibromochloromethane	0.013	<0.002	0.102	102	0.100
36	1,2-Dibromoethane	<0.002	<0.002	0.100	100	0.100
37	Tetrachloroethene	<0.002	<0.002	0.100	100	0.100
38	Chlorobenzene	<0.002	<0.002	0.104	104	0.100
39	1,1,1,2-Tetrachloroethane	<0.002	<0.002	0.110	110	0.100
40	Ethylbenzene	<0.002	<0.002	0.101	101	0.100
41	m, p - Xylene	<0.004	<0.004	0.204	102	0.200
42	Bromoform	0.009	<0.002	0.107	107	0.100
43	Styrene	<0.002	<0.002	0.102	102	0.100
44	o-Xylene	<0.002	<0.002	0.103	103	0.100
45	1,1,2,2-Tetrachloroethane	<0.002	<0.002	0.093	93	0.100
46	1,2,3-Trichloropropane	<0.002	<0.002	0.096	96	0.100
47	Isopropylbenzene	<0.002	<0.002	0.093	93	0.100
48	Bromobenzene	<0.002	<0.002	0.101	101	0.100
49	2-Chlorotoluene	<0.002	<0.002	0.097	97	0.100
50	n-propylbenzene	<0.002	<0.002	0.095	95	0.100
51	4-Chlorotoluene	<0.002	<0.002	0.095	95	0.100
52	1,3,5-Trimethylbenzene	<0.002	<0.002	0.094	94	0.100
53	tert-Butylbenzene	<0.002	<0.002	0.096	96	0.100
54	1,2,4-Trimethylbenzene	<0.002	<0.002	0.099	99	0.100
55	1,3-Dichlorobenzene	<0.002	<0.002	0.097	97	0.100
56	sec-Butylbenzene	<0.002	<0.002	0.088	88	0.100
57	1,4 Dichlorobenzene	<0.002	<0.002	0.097	97	0.100
58	4-Isopropyltoluene	<0.002	<0.002	0.091	91	0.100
59	1,2-Dichlorobenzene	<0.002	<0.002	0.097	97	0.100
60	n-Butylbenzene	<0.002	<0.002	0.084	84	0.100
61	1,2-dibromo-3-chloropropane	<0.002	<0.002	0.090	90	0.100
62	1,2,3-Trichlorobenzene	<0.002	<0.002	0.093	93	0.100

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ANALYTICAL RESULTS FOR  
 CONOCO, INC.  
 ATTN: MARK BISHOP  
 921 W. SANGER  
 HOBBS, NM 88240  
 FAX TO:

Receiving Date: 07/23/01  
 Reporting Date: 07/24/01  
 Project Owner: CONOCO  
 Project Name: CONOCO PLAYA LAKE PROJECT  
 Project Location: MALJAMAR GAS PLANT  
 Sample ID: MALJAMAR RO WATER  
 Lab Number: H6011-1

Analysis Date: 07/23/01  
 Sampling Date: 07/23/01  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: BC

VOLATILES - 8260 (ppm)	Sample Result H6011-1	Method Blank	QC	%Recov.	True Value QC
63 Hexachlorobutadiene	<0.002	<0.002	0.080	80	0.100
64 Naphthalene	<0.002	<0.002	0.089	89	0.100
65 1,2,4-Trichlorobenzene	<0.002	<0.002	0.091	91	0.100

% Recovery

66 Dibromofluoromethane
67 Toluene-d8
68 4-Bromofluorobenzene

METHODS: EPA SW-846-8260.

  
 Burgess D.A. Cooke, Ph. D.

7/24/01  
 Date

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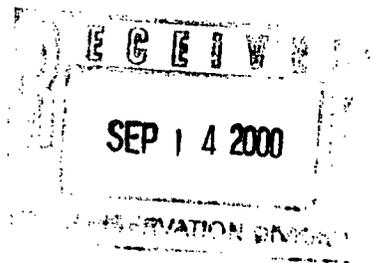
Rudy Quiroz  
Operations Tech III  
Natural Gas & Gas Products

Conoco Inc.  
P.O. Box 90  
Maljamar, NM 88264  
505-676-3528

CERTIFIED MAIL 70993220000149971199  
Return Receipt Requested

September 8, 2000

Mr. Wayne Price  
Oil Conservation Division  
Energy and Minerals Department  
2040 S. Pacheo  
Santa Fe, NM 87505



**RE: Annual Report  
Underground Water Discharge Lines and Below Grade Sumps**

Dear Mr. Price:

As a result of your inspection of the facility conducted May 9, 2000 an annual report was requested on the results of the testing of all underground discharge lines and the inspection of below grade sumps.

In accordance with New Mexico Water Quality Control Commission Regulations the following actions were performed. The Oil Conservation Division in Hobbs, New Mexico was contacted on January 27, 2000. The Maljamar Gas Plant gave 72 hour notice and on February 1, 2000 the plants underground wastewater lines were tested and the below grade sumps inspected. The results of those tests were sent to the Oil Conservation Division in Santa Fe.

As a result of your inspection of the facility you requested the Clark sump pits be inspected and the water discharge line from Maljamar's skimmer pit to productions water tank be tested. In accordance with New Mexico Water Quality Control Commission Regulations the following actions were performed. The Oil Conservation Division in Hobbs and Santa Fe, New Mexico were contacted on July 6, 2000. The Maljamar Gas Plant gave 72 hour notice and on July 11, 2000 the Clark sumps were inspected and water discharge line to productions water tank was tested. All test results will be enclosed in this annual report.

If you have any questions or require additional information, please call me at (505) 676-3528. Thank you for your assistance.

Sincerely,

Rudy Quiroz

CC: Joyce Woodfin  
File: 215-5-1

**Conoco Maljamar Gas Plant  
Discharge Plan GW-020  
Annual Report**

**Underground Water Discharge Line**

The underground water discharge lines were tested to demonstrate mechanical integrity. The method of test was hydro pressure test. The discharge lines were pressure tested to 20 pounds per square inch gauge. The results of this test were recorded on a chart recorder. The pressure was held for three consecutive hours with no detection of any pressure loss. A copy of two charts is included with this report. One chart represents the plant discharge lines and the other represents the skimmer to production tank discharge line.

**Below Grade Sump Pits**

The Maljamar Gas Plant existing sumps are open to the atmosphere and can not be pressured tested. These sumps were cleaned and visually inspected for integrity. The sumps showed no signs of deterioration or leakage. The Clark sumps will be visually inspected semi-annually and the rest of the sumps will be inspected annually. Copies of the pump truck tickets are included with this report.

NIGHT  
6 8 10 12 2 4 6

MONDAY  
10 NOON 2 4

NIGHT  
6 8 10 12 2 4 6

TUESDAY  
10 NOON 2 4

NIGHT  
6 8 10 12 2 4 6

WEDNESDAY  
10 NOON 2 4

NIGHT  
6 8 10 12 2 4 6

THURSDAY  
10 NOON 2 4

7-12-00

Discharge Piping Skimmer Pit Water  
TO Production TANK

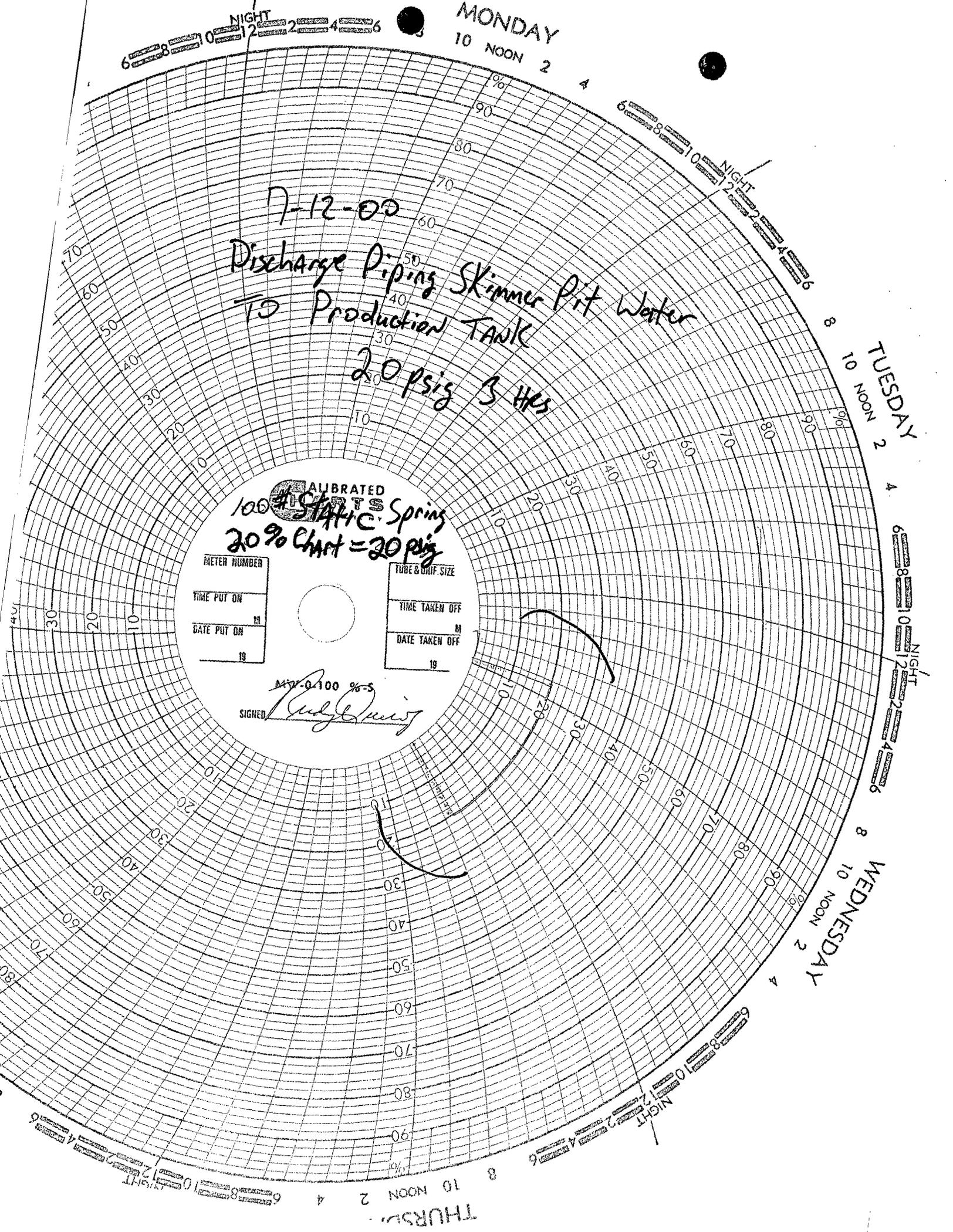
20 psig 3 Hrs

100 # Static Spring  
20% Chart = 20 psig

METER NUMBER  
TIME PUT ON  
DATE PUT ON

TUBE & UNIF. SIZE  
TIME TAKEN OFF  
DATE TAKEN OFF

M79-0100 %S  
SIGNED *Rudgerding*



ACCOUNTING ADDRESS:

P.O. BOX 26  
LOCO HILLS, N.M. 88255

PHONE:

(505) 677-2320

DAY OR NIGHT NUMBER:

(505) 677-3113

# STEVE CARTER, INC.

HOT OIL UNITS — OIL FIELD TRANSPORTS — PUMP TRUCK

LOCO HILLS, NEW MEXICO

56373

DATE 7-14-00

DRIVER Ricky Hudson

TRUCK NO. 41VT

CAPACITY 130

BBLS

SHIPPED FROM CONOCO

AT

SHIPPED TO FRAC TANK

LEASE

GAS PLANT

DESCRIPTION	HRS OR BBLS	RATE	AMOUNT	TAX	TOTAL
P/W	65	65.00	4225.00		
		57.0	35.75		
				42.33	192.98

empty sumps (Clark Sumps)

TIME STARTED 6:00A

TIME FINISHED 5:00P

TOTAL HOURS 11

COMPANY NAME CONOCO

BY Ricky Hudson

Bryan Printers & Stationers, Inc. Form No. 1983-D1

ACCOUNTING ADDRESS:

P.O. BOX 26  
LOCO HILLS, N.M. 88255

PHONE:

(505) 677-2320

DAY OR NIGHT NUMBER:

(505) 677-3113

# STEVE CARTER, INC.

HOT OIL UNITS — OIL FIELD TRANSPORTS — PUMP TRUCK

LOCO HILLS, NEW MEXICO

56376

DATE 7-12-00

DRIVER Ricky Hudson

TRUCK NO. 41

CAPACITY 130

BBLS

SHIPPED FROM CONOCO

AT

SHIPPED TO FRAC TK

LEASE

GAS PLANT

DESCRIPTION	HRS OR BBLS	RATE	AMOUNT	TAX	TOTAL
P/W		65.00	650.00		
		57.0	32.50		
				50.89	120.89

empty sump (Clark Sumps)

TIME STARTED 6:00A

TIME FINISHED 4:30P

TOTAL HOURS 10.2

COMPANY NAME CONOCO

BY Ricky Hudson

Bryan Printers & Stationers, Inc. Form No. 1983-D1



ACCOUNTING ADDRESS:  
P. O. BOX 26  
LOCO HILLS, N.M. 88255

# STEVE CARTER, INC.

55876

PHONE:  
(505) 677-2320

HOT OIL UNITS — OIL FIELD TRANSPORTS — PUMP TRUCK

DAY OR NIGHT NUMBER:  
(505) 677-3113

LOCO HILLS, NEW MEXICO

DATE 7-1-08

DRIVER Merrill Greenwald TRUCK NO. 410 CAPACITY 130 BBLs.

SHIPPED FROM Plant AT Carroll Hoop plant

SHIPPED TO Plant LEASE Plant

DESCRIPTION	HRS. OR BBLs	RATE	AMOUNT	TAX	TOTAL
<u>Empty sumps for sumps completion</u>	<u>160</u>				

TIME 7:00 am  
STARTED

TIME  
FINISHED

TOTAL HOURS

COMPANY NAME Carroll Hoop plant

BY: [Signature]

Bryan Printers & Stationers, Inc. Form No. 1963-D1

*Plant Sumps*