

1R - 225

**GENERAL
CORRESPONDENCE**

YEAR(S):
1996 - 1995

OIL CONSERVATION DIVISION

January 17, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-923Mr. Lee Roberts
8301 Eunice Hwy
Hobbs, New Mexico 88240**Re: Water Well Sampling**
807 Rash
Hobbs, New Mexico

Dear Mr. Roberts:

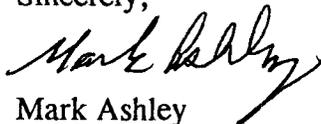
On November 14, 1995 the New Mexico Oil Conservation Division (OCD) collected a water sample from your private well located at 807 Rash, Hobbs, New Mexico to analyze for the presence of hydrocarbon related contamination. The enclosed analyses indicates that your well contained the following constituents that are above New Mexico Water Quality Control Commission (WQCC) standards (enclosed).

<u>Constituent</u>	<u>Concentration (mg/l)</u>	<u>Water Quality Standard (mg/l)</u>
Benzene	1.3	.01
Total Naphthalenes (Naphthalene and 2-Methylnaphthalene)	.043	.03

Since the above mentioned contamination levels are above the WQCC's health based standards, the OCD recommends that the well not be used as a source of drinking water.

The OCD will be evaluating potential sources of the ground water contamination in the area. If you have any questions, please call me at (505) 827-7155.

Sincerely,


Mark Ashley
Geologist

xc: OCD Hobbs Office

Z 765 962 923



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

PS Form 3800, March 1993

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

NMOCD INTER-OFFICE CORRESPONDENCE

TO: Mark Ashley-Environmental Bureau
From: Wayne Price-Environmental Engineer *Wayne Price*
Date: January 11, 1996
Reference: Lee Roberts water well located 806 Rash Hobbs NM
Subject: Ground Water Contamination
Comments:

Dear Mark,

Per your request please find enclosed the information that District I has concerning this issue.

Please note it is my understanding that the information in which I obtained from the NMED reflects there was an up-gradient water well at a nearby residence of a Mrs. Jewel Roberts that had ground water contamination that was contributed to gasoline and solvents.

Mr. Lee Robert's well which is down gradient and approximately 100-300' away is now contaminated as you know. Also it is my understanding there is no connection between the two parties because of the similar last names.

I estimate the depth to ground water at 40 to 50 feet in this area.

It appears there might be an underground plume that is migrating to the southeast. This is only speculation at this time.

I can also say that the water does not have the usual "Oilfield" odors that are usually associated with ground water that has been contaminated from an Oil & Gas activity. Also the chlorides are very low. The olfactory smells noted by Gary Wink and myself was one of a paint thinner or solvent smell.

If you need anymore information please do not hesitate to call or write.

cc: Jerry Sexton-District I Supervisor
Gary Wink-Field Rep. II
Myra Meyers-NMED Hobbs Office

attachments-copy of Hobbs file

JERRY SIXION
 ROGER ANDERSON
 BILL OLSON

Page 1 of 2

NEW MEXICO OIL CONSERVATION COMMISSION
 FIELD TRIP REPORT

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS
------------	----------------	----------	-------	---------------

Name WAYNE PRICE Date _____ Miles _____ District I
 Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [Signature]

W 0 0 2 0

9/1/95 - LEE ROBERTS WATER WELL

807 RASH - HOBBS N.M.

SAMPLED WATER FROM SPIGOT -

CITY OF HOBBS RAN FIELD TEST

FOR BTEX \approx .6 mg/L USING

DTECH KIT TK-1003-1

9/6/95 - SAMPLED TOP OF WATER WELL USING

PLASTIC DISPOSABLE BAILER WITH MP.

ROBERTS - RESULTS: WATER CLEAR, MODERATE

HYDROCARBON SMELL, PID (BTEX - HEAD SPACE) \approx 220 PPM

CL = 35 PPM TDS = 800 UMG/OS - RAN BLANK PID \approx 7 PPM

Mileage

UIC _____

RFA _____

Other _____

Per Diem

UIC _____

RFA _____

Other _____

Hours

UIC _____

RFA _____

Other _____

TYPE INSPECTION PERFORMED

- H = Housekeeping
- P = Plugging
- C = Plugging Cleanup
- T = Well Test
- R = Repair/Workover
- F = Waterflow
- M = Mishap or Spill
- W = Water Contamination
- O = Other

INSPECTION CLASSIFICATION

- U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R = Inspections relating to Reclamation Fund Activity
- O = Other - Inspections not related to injection or the Reclamation Fund
- E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- D = Drilling
- P = Production
- I = Injection
- C = Combined prod. inj. operations
- S = SWD
- U = Underground Storage
- G = General Operation
- F = Facility or location
- M = Meeting
- O = Other

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

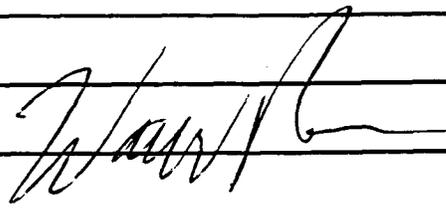
INSPECTION
 CLASSIFICATION
 FACILITY
 HOURS
 QUARTER
 HOURS

Name WAYNE PRICE Date _____ Miles _____ District I
 Time of Departure 7 AM Time of Return 4 PM Car No. G 0472

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature _____

WATER WELL LOCATED INSIDE SMALL STORAGE
 SHED - CASING ON WELL IS FLUSH WITH FLOOR
 RECOMMENDED THAT CASING BE EXTENDED
 UP TO PREVENT RAIN WATER, FLOWS ETC
 FROM ENTERING WELL-BORER; ALSO
 RECOMMENDED THAT MR. ROBERTS SHOULD
 THINK ABOUT CONNECTING TO CITY OF
 HOBBS FRESH WATER LINE.



<u>Mileage</u>	<u>Per Diem</u>	<u>Hours</u>
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

- | TYPE INSPECTION PERFORMED | INSPECTION CLASSIFICATION | NATURE OF SPECIFIC WELL OR FACILITY INSPECTED |
|--|--|--|
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SEND TO DIVISION
RECEIVED

SEP 5 AM 8 52

To: BILL OLSON
NMOC

STATE OF
NEW MEXICO
OIL
CONSERVATION
DIVISION



MEMORANDUM OF MEETING OR CONVERSATION

Telephone

Personal

Time

9:00 AM

Date

8/28/95

Originating Party

Other Parties

LEE ROBERTS - 807 RASH HERBS

Subject

WATER WELL

Discussion

MR ROBERTS REQUESTED NMOC INVESTIGATE
SOURCE OF CONTAMINATION

MR. ROBERTS: INDICATED MORRIS SUTHER RUD
CO. IS WASHING OFF PILES & WATER IS
DISCHARGING TO GROUND.

Conclusions or Agreements

DISTRICT SUPERVISOR RE COMMENTS RUN NITRATES
DUE TO PREVIOUS NITRATE CONTAMINATION IN AREA!

Distribution

cc: JERRY SEXTON
ROGER ANDERSON

Signed

CC JERRY SEXTON
ROGER ANGELO

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

INSPECTION CLASSIFICATION FACILITY HOURS QUARTER HOURS

Name WAYNE PRICE Date 8/29/95 Miles _____ District I
 Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Wayne Price

RE: LEE ROBERTS WATER WELL
 807 RASH HOBBS N.M.

TOOK WATER SAMPLE - city
 at HOBBS TO RUN NO₃ & BCO-

Mileage	Per Diem	Hours
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

- H = Housekeeping
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- O = Other



CITY OF HOBBS
300 N. Turner
Hobbs, NM 88240
Lab # 9411

MICROBIOLOGICAL WATER REPORT

Date Received _____

Time Test Began 8:30 AM Date 3/29/95

Time Received _____

Time Test Ended _____ Date _____

Received by _____

SAMPLE IDENTIFICATION			TESTING REQUIRED	
Quality Control No. <u>25 4 75</u>		County <u>LEA</u>	<input type="checkbox"/> MF-Total Coliform <input type="checkbox"/> MMO MUG-Total Coliform	
Water Supply System Name <u>LEE SUBERTS 207 RASH HOBBS</u>		WSS Code No.	LABORATORY TEST RESULTS	
COLLECTION INFORMATION Date Collected Mo. Day Yr. <u>3 29 95</u> Time Collected <u>11:00 AM</u> Collected By <u>WAYNE PRICE</u>		Collection Point <u>WATER WELL SIPPET</u>	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present
			Fecal Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	E. coli / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present
TYPE OF SYSTEM			INVALID SAMPLE	
Check One <input type="checkbox"/> Public Non-Community <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Public Community <input checked="" type="checkbox"/> Private Well Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Residual: _____ mg / l (required for fecal test)			If one of the following is checked, resample. <input type="checkbox"/> TNTC Non-Coliforms <input type="checkbox"/> Confluent Growth	
REASON FOR SAMPLING			REJECTED SAMPLE	
Check One <input type="checkbox"/> Routine Sample <input checked="" type="checkbox"/> Special Sample <input type="checkbox"/> Check Sample <input type="checkbox"/> Monitor Sample			If one of the following is checked, resample. <input type="checkbox"/> Sample too old. <input type="checkbox"/> Temperature violation. (above 10° C) <input type="checkbox"/> Form incomplete. See circled item. <input type="checkbox"/> Date discrepancy. <input type="checkbox"/> Leaking Sample. <input type="checkbox"/> Quantity insufficient for testing. <input type="checkbox"/> Quantity too great to permit agitation. <input type="checkbox"/> Turbid sample. <input type="checkbox"/> Other _____	
			FOR INTERPRETATION OF RESULTS CALL THE NEW MEXICO ENVIRONMENT DEPARTMENT AT 393-4302.	

NOTE: FLAMED END OF SIPPET / USED GLOVES / ICE SAMPLE

SEND REPORT AND BILL TO THE FOLLOWING:

NAME MR WAYNE PRICE
 COMPANY NM OIL CONSERVATION DIV
 ADDRESS 1300 W BRADWAY
 PHONE 505-393-6161

Bacteriologist _____

A FEE OF \$10.00 PLUS TAX IS CHARGED FOR EACH TEST.

OFFICE USE ONLY
 ACCT. # _____

31 AUG 1995
OIL CONSERVATION DIVISION
8 52

CC: ROGER ANDERSON
BILL OLSON
TERRY SEBTON
MILEAGE

UIC: _____
OTHER: _____

OIL CONSERVATION DIVISION
COMPLAINT FORM

PERSON COMPLAINING:
NAME: Lee ROBERTS
ADDRESS: 807 RASH
HOBBS N.M. 88290

INFORMATION TAKEN BY:
TAKEN BY: WAYNE PRICE
DATE: 8/14/95 TIME: 2:30 PM
IN PERSON: ✓ BY PHONE: _____

PHONE: 393-9697

COMPLAINT: WATER FROM WELL IS CONTAMINATED - NMEP REFERRED HIM TO UMOC.

COMMENTS: WATER HAS HYDROCARBON IN IT BAD SMELL + TASTE WATER HAS BEEN GOOD IN PAST

- INVESTIGATION -

INVESTIGATOR: WAYNE PRICE - UMOC

DATE: 8/14/95

TIME: 3:15 PM

DESCRIBE INVESTIGATION AND FINDINGS: TOOK WATER SAMPLE AT WATER WELL TANK -

RESULTS OF FIELD TEST - TDS ~ 1100 UMG/L
CL ~ 75 PPM ; PH 7-8
BTEX (PID) MAX = 695 PPM (HEAD SPACE)
OLFACTORY - SLIGHT TO MODERATE SMELL
VISUAL - CLEAR WATER

WATER APPEARS TO BE CONTAMINATED WITH VOLATILE HYDROCARBON SOURCE UNKNOWN!!

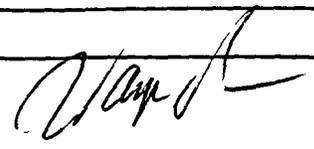
- FOLLOW-UP -

DATE: _____

TIME: _____

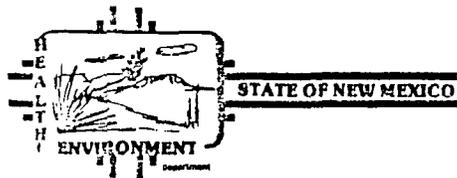
ACTION TAKEN: _____

*ATTACH ADDITIONAL SHEETS, IF NECESSARY



MEMORANDUM

DATE: September 11, 1986



TO: Dennis McQuillan, Groundwater/Hazardous Waste, Santa Fe

FROM: Roelf Ruffner, Environmentalist Supervisor *RR*

SUBJECT: GASOLINE CONTAMINATION

I informed Mrs. Jewel Roberts, 801 South Rash in Hobbs, 393-5640, that her well was contaminated with gasoline. The well is next to a garage owned by Mrs. Roberts. Near the well are several places where machinery have been cleaned with gasoline or solvent. Her property is located in T19S, R38E, Sec. 05, NE $\frac{1}{4}$, NE $\frac{1}{4}$ approximately 1/10 mile south of the intersection of Rash and Marland. Several private water wells are located to the southeast of her property.

RR/jp

pc Garrison McCaslin, HPM II, Roswell
Tom Burt, HPM I, Carlsbad/Hobbs
Files - Hobbs EID ✓

RECEIVED

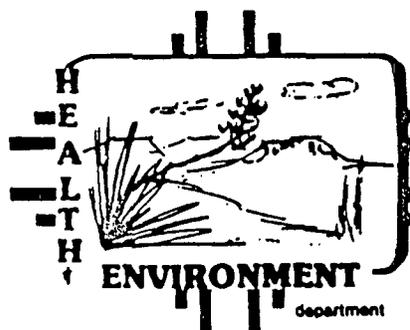
SEP 07 1986

OLD HOBBS
OFFICE

*Received from
NM ED
HOBBS office
John*

TONEY ANAYA
GOVERNOR

DENISE D. FOF
DIRECTOR



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

James Murray State Office Bldg.
2120 North Alto
Hobbs, NM 88240
397-5250 - 397-5251

June 12, 1986

Mr. Bob Gallagher
Assistant City Manager
City of Hobbs
P. O. Box 1117
Hobbs, NM 88240

Dear Mr. Gallagher:

Enclosed is a compilation of data from Nitrate and Chloride Surveys conducted by the Environmental Improvement Division in the Hobbs area over the last three years. Due to budgetary cutbacks, our water surveys have been reduced during 1986.

I hope this data will be of interest to you. If there are any questions, please feel free to call.

Sincerely,

Roelf Ruffner
Environmental Supervisor

RR/jp

Enclosure

pc Garrison McCaslin, EID, Roswell
Tom Burt, HPM I, Carlsbad/Hobbs
Files - Hobbs EID

RECEIVED

SEP 07 1986

UCD HOBBS
OFFICE

June 12, 1986
 NITRATE & CHLORIDE STUDY
 HOBBS AREA
 CONDUCTED BY
 ENVIRONMENTAL IMPROVEMENT DIVISION

RECEIVED
 SEP 07 1995
 UCD HOBBS
 OFFICE

<u>LOCATION</u>	<u>DATE</u>	<u>NITRATE (Mg/l)</u>
409 E. Kansas	05-09-86	3.8
113 Chance	04-24-85	2.82
606 Lakeview	04-24-85	2.84
708 Lakeview	04-24-85	5.18
8315 N. Grimes	02-21-85	2.04
Llano Grande	02-06-85	0.01
320 Sunset	03-22-85	3.20
3100 Stanolind	03-08-85	22.6
17 Burgess	01-28-85	1.94
Hasten - W. Bender	01-05-85	1.58
3500 N. Dal Paso	06-13-85	1.99
Goff Dairy	11-15-84	1.82
825 S. Asher	11-09-84	16.5
3909 N. Fowler	11-07-84	8.9
Hope Rd #10	11-07-84	2.04
Gary Lane	11-07-84	8.8
Gary Lane	11-07-84	2.79
3406 W. Bender	11-07-84	11.6
4201 W. Bender	11-07-84	1.61
125 Roberts Lane	11-07-84	1.32
2492 N. Dal Paso	11-09-84	5.71
803 Absher	11-14-84	7.48
728 S. Gibbs	09-21-84	11.7
1300 S. Fellowship	08-13-84	3.14
310 Sunset	02-27-85	19.0
822 S. Gibbs	09-21-84	7.4
New Life Fellowship	07-17-84	4.32
Hickman	07-02-84	14.9

<u>LOCATION</u>	<u>DATE</u>	<u>NITRATE (Mg/l)</u>
600 Chickasaw	07-10-84	4.02
19 Brand Dr.	07-20-84	2.28
1455 Connors Rd.	07-20-84	0.07
K.T. Bar Park	05-15-84	0.38
Baptist Assoc. Lov. Hwy.	07-02-84	2.21
503 E. Stanolind	07-11-84	0.09
Stane -.E. Stanolind	06-08-84	18.2
Hernandez - E. Stanolind	06-08-84	23.4
Navarro - E. Stanolind	05-15-84	16.3
4031 E. Bender	12-18-84	19.2
4102 Fowler	11-30-84	7.18
4108 Fowler	11-29-84	9.5
3905 Fowler	11-28-84	0.19
2500 W. Midwest	12-04-84	6.75
400 W. Martin	12-26-84	2.50
120 W. Martin	12-26-84	2.62
101 W. Eva	12-26-84	3.58
2511 N. McKinley	11-28-84	11.0
6127 Davis	05-16-84	2.64
#5 Tulsa Rd.	05-14-84	16.2
203 Hickman	02-22-84	5.34
1600 Bensing	04-04-84	3.63
1651 Bensing	04-04-84	2.81
816 W. Co. Rd.	04-05-84	2.84
901 S. Gibbs	04-05-84	4.04
1723 Lee Ann	04-12-84	2.85
K.T. Bar Park	05-15-84	0.38
2210 French Dr.	04-12-84	1.71
2546 N. Dal Paso	05-02-84	3.75
201 Broom	02-20-84	11.9
Decker Lane #3	02-21-84	5.96
4308 N. Grimes	02-20-84	4.00
111 E. Campbell	02-21-84	5.46

RECEIVED
SEP 07 1995
UCD HOBBS
OFFICE

<u>LOCATION</u>	<u>DATE</u>	<u>CHLORIDE (Mg/l)</u>
409 E. Kansas	05-09-85	42.9
3500 N. Dal Paso	06-13-85	89.4
Permian Corp.	03-26-85	68.9
2502 W. Midwest	02-15-85	258.5
3100 E. Stanolind	03-08-85	300.8
320 Sunset	03-22-85	52.1
310 Sunset	02-27-85	172.1
8315 N. Grimes	02-21-85	42.7
Llano Grande	02-06-85	158.6
466 Cherokee	02-28-85	64.4
#2 Peaches	02-28-85	79.4
Hasten - W. Bender	01-05-85	77.1
17 Burges	01-28-85	71.2
4031 W. Bender	12-18-84	160.0
113 Chance	04-24-85	47.4
708 Lakeview	04-24-85	112.4
606 Lakeview	04-24-85	44.4
2500 W. Midwest	12-04-84	171.0
4108 Fowler	11-29-84	3.4
3905 Fowler	11-28-84	54.1
Goff Dairy	11-15-84	45.4
825 S. Gibbs	09-21-84	295.4
728 S. Gibbs	09-21-84	150.5
2502 W. Midwest	12-04-84	236.1
4102 Fowler	11-30-84	88.0
2511 N. McKinley	11-28-84	82.8
1830 E. Adams	07-19-84	39.3
1445 Connors Rd.	07-20-84	57.6
19 Brand Dr.	07-20-84	69.8
Hickman	07-02-84	103.5
1700 S. Fellowship	07-11-84	55.5
600 Chickasaw	07-10-84	74.2
Baptist Assoc. Lov. Hwy.	07-02-84	49.3

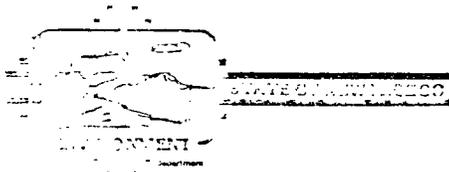
RECEIVED
SEP 07 1995
UCD HOBBS
OFFICE

<u>LOCATION</u>	<u>DATE</u>	<u>CHLORIDE (Mg/l)</u>
Hernandez - E. Stanolind	06-08-84	270.5
127 Davis	05-16-84	38.2
K.T. Bar Park	05-15-84	82.1
503 E. Stanolind	07-11-84	206.0
Stane - E. Stanolind	06-08-84	415.8
Navarro - E. Stanolind	05-15-84	427.9
803 Absher	11-14-84	179.4
2492 N. Dal Paso	11-09-84	184.9
2546 N. Dal Paso	05-02-84	607.0
#5 Tulsa Rd.	05-14-84	152.0
203 Hickman	02-22-84	132.4
1600 Bensing	04-04-84	41.8
1651 Bensing	04-04-84	55.0
2210 Bensing	04-12-84	61.8
1723 Lee Ann	04-12-84	38.0
808 Everglade	02-02-84	115.3
4308 N. Grimes	02-20-84	44.5
111 E. Campbell	02-21-84	47.6
Decker Lane #3	02-21-84	263.6
201 Broom	02-20-84	172.4
New Life Fellowship	02-16-84	319.3
226 Martin	01-25-84	51.5
3504 W. Co. Rd.	02-02-84	589.5

RECEIVED
SEP 07 1995
UCD HOBBS
OFFICE

RR/jp

pc Garrison McCaslin, HPM II, Roswell
Tom Burt, HPM I, Carlsbad/Hobbs
Ken Gleason, Asst. City Mgr., Hobbs
Files - Hobbs EID



MEMORANDUM

DATE: December 21, 1984

TO: Pat Longmeir, Groundwater, Santa Fe

FROM: Roelf Ruffner, Environmentalist, Hobbs RR

SUBJECT: OIL CONTAMINATION - HOBBS, NM

The attached water analyses report is a water analysis done for OCD on a possible oil/brine contamination at T19S, R38E, Section 5, NE $\frac{1}{4}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$. Amoco Production Company was drilling. I also took samples for SLD.

Please note NO. 3. OCD doubts there is contamination.

RR/jp

Attachment (1)

pc Files - Hobbs EID

RECEIVED
SEP 07 1995
OCD HOBBS
OFFICE

COPY

P. BOX 1468
DANS TEXAS 79758
TEL 2024 01 5501040

Martin Water Laboratories, Inc.

700 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. John Breeding LABORATORY NO. 128419
1700 W. 20, Hobbs, N.M. SAMPLE RECEIVED 9-3-59
RESULTS REPORTED 9-11-59

COMPANY Amoco Production Company LEASE South Hobbs Unit
FIELD OR POOL Hobbs
TEST ON BLOCK SURVEY COUNTY STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Sample 42500. (2500 W. Midwest, Hobbs)
NO. 2 Sample 42502. (2502 W. Midwest, Hobbs)
NO. 3 Sample 42507 (120' - 22' FROM OUTSIDE).
NO. 4

RECEIVED
SEP 07 1959
M.D. HOBBS
OFFICE

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0020	1.0027	1.0025	
Amount Sampled				
Amount Received	7.25	7.42	7.56	
Calcium as CaCO ₃	448	603	337	
Magnesium as CaCO ₃				
Total Hardness as CaCO ₃	595	800	337	
Sodium as Ca	272	248	220	
Magnesium as Mg	40	44	39	
Sodium and/or Potassium	136	206	229	
Sulfate as SO ₄	275	430	453	
Chloride as Cl	266	217	327	
Iron as Fe	0.14	0.16	0.21	
Barium as Ba				
Thurs day, Electric				
Color as Pt				
Total Solids, Calculated	1,239	1,747	1,604	
Temperature 24°				
Carbon Dioxide, Calculated				
Dissolved Oxygen, ml/liter				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	6.20	4.75	5.00	
Suspended Oil				
Filterable Solids as mg/l				
Volume Filtered, ml				
Oil & Grease	1.5	1.3	0.0	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Martin Water Laboratories, Inc.

WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

709 W. INDIANA
MIDLAND, TEXAS 797
PHONE 683-4521

P. O. BOX 1488
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

GENERAL METHOD OF STERILIZING
WATER WELLS AND THE HOUSEHOLD PIPING SYSTEM

The water well should be treated with 2 to 3 gallons of household bleach (Purex, Chlorox, or other similar bleach) by pouring the bleach down the annulus. The annulus is the space between the large surface pump and the pipe that is run into the well with the pump on it.

After treating the above, a hose should be attached to the nearest faucet past or on the pressure tank and water run into the annulus for about 30 minutes to wash down and mix the chlorine treatment.

Following the above two actions, all faucets in the water system should be opened and flushed until a distinct odor of chlorine is noted: then the faucet should be shut off. After all the faucets in the system have been so flushed, then these faucets should be shut off and allowed to stand for two hours with no water being used out of the system. During this period, the system should be watched carefully so that no one uses the water for any purpose and especially should be protected against children using the water. During this period, the water will have a very strong bleach in it and can be very irritating, even to the skin.

After the above two-hour waiting period, each faucet should then be flushed about the same length of time as the previous flush with as many faucets running at one time as is possible. All the faucets should then be shut off for another hour. During this time water should not be used from the system for any purpose and the system should be especially protected against children using the water.

At the end of the above one-hour waiting period, all faucets on the end of all the lines should be opened and flushed to waste until there is clearly no chlorine odor at the end of the line. It is suggested that this main flushing should not go into a private septic system though minor flushing of faucets should not be harmful. Then all the faucets in the system should be flushed in like manner until there is no odor of chlorine in the water at any faucet.

It should be clarified that this is for the purpose of average domestic water systems: and if the system is very small or very large, then adjustments are needed.

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P.O. BOX 1468
MONAHANS, TEXAS 79756
PH 943-3234 OR 563-1040

Martin, Water Laboratories, Inc.

709 W INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. John Breeding LABORATORY NO. 128419
P.O. Box 68, Hobbs, NM SAMPLE RECEIVED 12-5-84
RESULTS REPORTED 12-6-84

COMPANY Amoco Production Company LEASE South Hobbs Unit
FIELD OR POOL Hobbs
SECTION _____ ELOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Sample #2500.
NO. 2 Sample #2502.
NO. 3 Sample #2507 (120' - 22' from surface).
NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0020	1.0027	1.0026	
pH when Sampled				
pH When Received	7.25	7.42	7.56	
Bicarbonate as HCO ₃	449	603	337	
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	355	300	337	
Calcium as Ca	172	248	220	
Magnesium as Mg	40	44	39	
Sodium and/or Potassium	136	206	229	
Sulfate as SO ₄	275	430	453	
Chloride as Cl	166	217	327	
Iron as Fe	0.14	0.16	0.21	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	1,239	1,747	1,604	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide		0.0	0.0	
Resistivity, ohms/m at 77° F.		4.75	5.00	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Oil & Grease	1.5	1.3	0.0	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

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OFFICE

By Robert C. Middleton, B.S.



City of Hobbs
P.O. Box 1117
Hobbs, New Mexico 88240

**MICROBIOLOGICAL
WATER REPORT**

Time Test Started 2:00
Time Test Ended 2:20
Date Reported To Water System 12-7-84

Lab Certification No. 05-01-84	
Date Received 12-5-84	Time Received 10:35

SAMPLE IDENTIFICATION	
Quality Control No. OC-NA 727	County Lea
Water Supply System Name	WSS Code No.

RESULTS OF TESTS FOR COLIFORM GROUP				
Tube	Presumptive		Confirmed	COMPLETED
	24 hr	48 hr		
A	10ml			
B	10ml			
C	10ml			
D	10ml			
E	10ml			
COLIFORMS	Total		per 100 ml	MPN
	Confirmed		positive tubes	MPN
	Total		18	per 100 ml MF
Noncoliforms		TNTC	per 100 ml	MF

COLLECTION INFORMATION		
Date Collected Mo Day Year 12 5 84	Time Collected 10:00 AM 12-5-84	Collected By C.D. PATTERSON
Collection Point 2500 W MIDWAY		

TYPE OF SYSTEM
Check One
 Public Non-Community Public Community
 Private Well Swimming Pool
Disinfected Yes No
Residual: _____ mg/L (required for fecal test)

REASON FOR SAMPLING
Check One
 Routine Sample Special Sample
 Check Sample Monitoring Sample

TESTING REQUIRED
Check One
 Potability-Sample required for the Safe Drinking Water Act. Fecal-coliform
 Other _____

A fee of \$10.00 is charged for each water test.

water does not follow safe drinking standards.

Marcus J. Buea
Bacteriologist

SEND REPORT AND BILL TO THE FOLLOWING
(Name - Address - Phone)
Amoco Production
Box 68
Hobbs

attn: John Breeden

RECEIVED
SEP 07 1985
CITY OF HOBBS
OFFICE



City of Hobbs
P.O. Box 1117
Hobbs, New Mexico 88240

MICROBIOLOGICAL
WATER REPORT

Time Test Started 2:00
Time Test Ended 2:20
Date Reported To Water System 12-7-84

Lab Certification No. 05-01-84	
Date Received 12-5-84	Time Receive 10:35

SAMPLE IDENTIFICATION	
Utility Control No. 00-NA 727	County Lea
Water Supply System Name	WSS Code No.

RESULTS OF TESTS FOR COLIFORM GROUP				
Tube	Presumptive		Confirmed	COMPLETED
	24 hr	48 hr	24 hr 48 hr	
A	10ml			
B	10ml			
C	10ml			
D	10ml			
E	10ml			
COLIFORMS	Total		per 100 ml	MPN
	Confirmed		positive tubes	MPN
	Total		18	per 100 ml MF
Noncoliforms		TNTC	per 100 ml	MF

COLLECTION INFORMATION		
Date Collected Day Year 2 5 84	Time Collected 10:00 AM 12-5-84	Collected By A.D. FATHALLAH
Collection Point 2500 W MID WALK		

TYPE OF SYSTEM

Check One
 Public Non-Community
 Public Community
 Private Well
 Swimming Pool
 Disinfected Yes No
 Residual: _____ mg/L (required for fecal test)

REASON FOR SAMPLING

Check One
 Routine Sample
 Special Sample
 Check Sample
 Monitoring Sample

TESTING REQUIRED

Check One
 Potability-Sample required for the Safe Drinking Water Act.
 Fecal-coliform
 Other _____

A fee of \$10.00 is charged for each water test.

water does not follow safe drinking standards.

Marcus J. Buea
Bacteriologist

SEND REPORT AND BILL TO THE FOLLOWING
 Name - Address - Phone) Amoco Production
Box 68
Hobbs

attn: John Breeden

RECEIVED
 SEP 07 1995
 UCD HOBBS
 OFFICE



City of Hobbs
P.O. Box 177
Hobbs, New Mexico 88240

**MICROBIOLOGICAL
WATER REPORT**

Time Test Started 2:00
Time Test Ended 2:20
Date Reported To Water System 12-7-84

Lab Certification No. 05-01-84	
Date Received 12-5-84	Time Receive 10:35

SAMPLE IDENTIFICATION	
Quality Control No. QC-NA 727	County Lea
Water Supply System Name	WSS Code No.

RESULTS OF TESTS FOR COLIFORM GROUP				
Tube	Presumptive		Confirmed	COMPLETED
	24 hr	48 hr		
A	10ml			
B	10ml			
C	10ml			
D	10ml			
E	10ml			
COLIFORMS	Total	per 100 ml		MPN
	Confirmed	positive tubes		MPN
	Total	10	per 100 ml	MF
Noncoliforms		TNTC	per 100 ml	MF

COLLECTION INFORMATION		
Date Collected Mo Day Year <u>12-5-84</u>	Time Collected <u>10:00 AM</u>	Collected By <u>CD. PATTERSON</u>
Collection Point <u>2502 W MIDWEST</u>		

TYPE OF SYSTEM
Check One <input type="checkbox"/> Public Non-Community <input type="checkbox"/> Public Community <input checked="" type="checkbox"/> Private Well <input type="checkbox"/> Swimming Pool Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Residual: _____ mg/L (required for fecal test)

REASON FOR SAMPLING
Check One <input checked="" type="checkbox"/> Routine Sample <input type="checkbox"/> Special Sample <input type="checkbox"/> Check Sample <input type="checkbox"/> Monitoring Sample

TESTING REQUIRED
Check One <input checked="" type="checkbox"/> Potability-Sample required for the Safe Drinking Water Act. <input checked="" type="checkbox"/> Fecal-coliform <input type="checkbox"/> Other _____

A fee of \$10.00 is charged for each water test.

water does not follow safe water regulations.

Marion J. Buce
Bacteriologist

SEND REPORT AND BILL TO THE FOLLOWING
(Name - Address - Phone)
Amco Productions
Box 68
Hobbs

Attn: John Breeden

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CITY OF HOBBS
OFFICE



City of Hobbs
P.O. Box 1117
Hobbs, New Mexico 88240

MICROBIOLOGICAL
WATER REPORT

Time Test Started 2:00
Time Test Ended 2:20
Date Reported To Water System 12-6-84

Lab Certification No. 05-01-84	
Date Received 12-5-84	Time Received 10:35

SAMPLE IDENTIFICATION
Quality Control No. OC-NA 727 County Lea
Water Supply System Name _____ WSS Code No. _____

COLLECTION INFORMATION
Date Collected 12-5-84 Time Collected 12:50 pm Collected By CP Patton
Collection Point 2507 Midway

TYPE OF SYSTEM
Check One
 Public Non-Community Public Community
 Private Well Swimming Pool
Disinfected Yes No
Residual: _____ mg/L (required for fecal test)

REASON FOR SAMPLING
Check One
 Routine Sample Special Sample
 Check Sample Monitoring Sample

TESTING REQUIRED
Check One
 Potability-Sample required for the Safe Drinking Water Act. Fecal-coliform
 Other _____

RESULTS OF TESTS FOR COLIFORM GROUP

Tube	Presumptive		Confirmed		COMPLETED
	24 hr	48 hr	24 hr	48 hr	
A	10ml				
B	10ml				
C	10ml				
D	10ml				
E	10ml				
COLIFORMS	Total _____				per 100 ml MPN
	Confirmed _____				positive tubes MPN
	Total _____				per 100 ml MF
Noncoliforms <u>TNTC</u>				per 100 ml MF	

A fee of \$10.00 is charged for each water test.

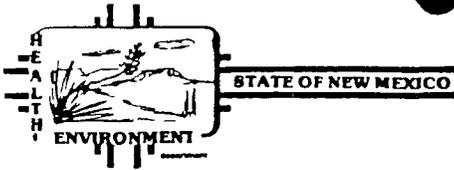
please resample and request an MPN Test.

Marcos A. Bacc
Bacteriologist

SEND REPORT AND BILL TO THE FOLLOWING
(Name - Address - Phone)
Amaco Production
Box 68
Hobbs

attn: John Breeden

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MEMORANDUM

DATE: August 27, 1982

TO: Paul McGinnis

FROM: Percy Blair, ^{PFB} District IV Engineer

SUBJECT: HOBBS WSC 80-20 (GIBBS AREA) O&M MANUAL

The attached letter from Brown, Henderson & Associates, Inc. requesting a waiver for an O&M manual for the above project was received on 8/26/82. It has been discussed in person with Terry Brown and Russell Doss, Hobbs city engineer.

Since the entire project consists of routine distribution lines and fire plugs and since we have As-Built plans, I agree that no O&M manual is needed and recommend that the requirement be waived.

PFB/tkm

Enclosure (1)

cc: John Guinn
Tom Burt
Hobbs Field Office
File (2)

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EID ENGINEERING DIVISION
CONSTRUCTION INSPECTION REPORT

Submitted to Paul McGinnis, Water Supply Engineering

Project/Location Gibbs Area Water Project, Report Date 8/27/82
Hobbs, Lea County Date of Inspection 8/26/82
Project No. WSC 80-20 Report By Percy F. Blair, P.E. PFB
Contractor Kent Nowlin Construction Co. Engineer Brown & King
% Complete 100

Description of Project/Facility Status:

Final inspection was conducted at 2:00 p.m., 8/26/82 and attended by:

Ken Gleason, City of Hobbs
Russell Doss, City of Hobbs
Terry Brown, Brown, Henderson & Associates
Jeanne Zoltai, Construction Grants Administrator, DFA
Percy Blair

Entire scope of the project was discussed and As-Built plans were received. Actual construction had been inspected and approved previously by myself and engineers. Contractor has yet to repair a fence damaged during construction but city is withholding \$5,000.00 until repair is completed.

I recommend acceptance of this project as installed.

PFB/tkm

cc: John Guinn
Tom Burt
Hobbs Field Office
File (2)

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EID ENGINEERING DIVISION
CONSTRUCTION INSPECTION REPORT

Submitted to Paul McGinnis

Project/Location Gibbs Area Water Project

Report Date April 29, 1982

Hobbs, Lea County

Date of Inspection April 28, 1982

Project No. WSC-80-20, Phase I

Report By Percy F. Blair, P.E. PFB

Contractor Kent Nowlin Construction Co.

Engineer Brown & King

% Complete 99

Description of Project/Facility Status:

Change order No. 2 is complete. Balance of project is fundamentally complete except contractor is still looking for and repairing leaks. No date has been set for a final inspection.

PFB/jw

cc: John E. Guinn, District Manager
Thomas A. Burt, Jr., District Supervisor
Hobbs EID Field Office
File (2)

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EID ENGINEERING DIVISION
CONSTRUCTION INSPECTION REPORT

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- 138

Project/Location Gibbs Area Water Project/

Report Date February 15, 1982

Hobbs, Lea County

Date of Inspection February 11, 1982

Project No. WSC-80-20, Phase I

Report By Percy F. Blair, P.E. PFB

Contractor Kent Nowlin Construction Co.

Engineer Brown & King

% Complete NA

Description of Project/Facility Status:

Work inspected with Red Pierce, Superintendent.

All new water line has been installed except for approximately 800 ft. on Carlton. Saddles were being welded on existing main on West Marland preparing for tie-ins. Hard rock being jack-hammered for Carlson line.

Pierce anticipates completion in about 6 weeks.

PFB/jw

cc: John E. Guinn
Thomas A. Burt, Jr.
Hobbs EID Field Office
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EID Engineering Division
CONSTRUCTION INSPECTION REPORT

Project/Location Gibbs Area Water Project, Hobbs, Report Date January 15, 1982

Lea County

Date of Inspection January 11, 1982

Project No. WSC-80-20, Phase I

Report By Percy F. Blair, P.E. PFB

Contractor Kent Nowlin Construction Co.

Engineer Brown & King

% Complete 50%

Description of Project/Facility Status:

Work inspected with Red Pierce, Superintendent.

Work is progressing rapidly. Contractor has brought in a large hydraulic backhoe and recent excavation has been soft loose caliche and sand. Approximately 10,000 ft. of 6" line is in place and backfilled, along with attendant fireplugs, but not pressure tested. Bedding technique is satisfactory.

PFB/jw

cc: John E. Guinn
Thomas A. Burt, Jr.
Hobbs EID Field Office
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CONSTRUCTION INSPECTION REPORT

Project/Location Gibbs Area Water Project Report Date December 3, 1981
Hobbs, Lea County Date of Inspection November 30, 1981
Project No. WSC-80-20, Phases I & II Report By Percy F. Blair, P.E.
Contractor Kent Nowlin Construction Co. Engineer Brown & King
% Complete N.A.

Description of Project/Facility Status:

Inspected with:

Russell Doss, Assistant City Engineer, Hobbs
Red Pierce, Superintendent, Kent Nowlin Construction Co.

Phase I:

Work has been resumed on line on Texas Street and easier trenching is being encountered. Workmanship is satisfactory. Contractor expects to stay on this phase of project until completed

Phase II:

All complete

PFB/jw

cc: John E. Guinn
Thomas A. Burt, Jr.
Hobbs EID Field Office
File (2)

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CONSTRUCTION INSPECTION REPORT

JH AS

Project/Location Gibbs Area Water Project
Hobbs, Lea County
Project No. WSC-80-20, Phases I & II
Contractor Kent Nowlin Const. Co.

Report Date November 9, 1981
Date of Inspection November 5, 1981
Report By Percy F. Blair, P.E. *PFB*
Engineer Brown & King
Z Complete N.A.

Description of Project/Facility Status:

Inspected with Brown Edwards, EID & Red Pierce, Superintendent.

Phase I:

Work has been temporarily halted to allow contractor to complete Continental - Broadway Place section of WSC-79-14-III. All of Texaco Road & Texas appears to be complete.

Phase II:

All work appears to be complete and lines in service.

PFB/jw

cc: John E. Guinn
Thomas A. Burt, Jr.
Hobbs EID Office
File

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EID Engineering Division

CONSTRUCTION INSPECTION REPORT

Project/Location Gibbs Area Water Project **Report Date** 8/28/81
Hobbs, Lea County **Date of Inspection** 8/27/81
Project No. WSC-80-20, Phase II **Report By** Percy F. Blair, P.E. PFB
Contractor Kent Nowlin Construction Co. **Engineer** Brown & West
Z Complete N.A.

Description of Project/Facility Status:

Inspected with Brown Edwards.

Navajo Road line complete except for tie-in at Lovington Highway. Plans showed incorrect location of existing pipe; approximately 70' additional main needed. Additional quantity will be shown on final Change Order.

Work commencing on Dal Paso line: existing main located and ditcher in place set to start.

No work started on West Bender line.

PFB/jw

cc: John E. Guinn
Thomas A. Burt, Jr.
Hobbs Office
Jeanne Zoltai
File

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EID Engineering Division
CONSTRUCTION INSPECTION REPORT

Project/Location Gibbs Area Water Project Report Date 8/28/81
Hobbs, Lea County Date of Inspection 8/27/81
Project No. WSC-80-20, Phase I Report By Percy F. Blair, P.E. *PFB*
Contractor Kent Nowlin Construction Co. Engineer Brown & West
% Complete N.A.

Description of Project/Facility Status:

Inspected with Terry Brown, Engineer, and Brown Edwards

Texaco Road only portion started, and little progress. Very hard caliche causes constant breakdowns on ditcher and numerous pipes in Right-of-Way delay further. Screenings from ditch being used for bedding.

West Marland line being flushed and tested.

PFB/jw

cc: John E. Guinn
Thomas A. Burt, Jr.
Hobbs Office
Jeanne Zoltai
File

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21/11/81

CONSTRUCTION INSPECTION REPORT

3.5

Project/Location Gibbs Area Water Project

Report Date August 5, 1981

Hobbs, Lea County

Date of Inspection August 4, 1981

Project No. WSC-80-20, Phase II

Report By Percy F. Blair, P.E. PFB

Contractor Kent Nowlin Construction Co.

Engineer Brown & West

% Complete 0

Description of Project/Facility Status:

No work started on Bender, Dal Paso or Navajo Road; contractor concentrating on Phase I.

PFB/jw

- cc: John E. Guinn
- Jeanne Zoltai
- Tom Burt
- Hobbs Office
- File

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HOBB.

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EID Engineering Division
CONSTRUCTION INSPECTION REPORT

E. K. ...
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58

Project/Location Gibbs Area Water Project **Report Date** August 6, 1981
Hobbs, Lea County **Date of Inspection** August 4, 1981
Project No. WSC-80-20, Phase I **Report By** Percy F. Blair, P.E. PFB
Contractor Kent Nowlin Construction Co. **Engineer** Brown & West
% Complete N.A.

Description of Project/Facility Status:

Inspected with Red Pierce, Superintendent.

Work started at Marland and Texaco Road, with approximately 400' of line installed. Progress is slow due to very difficult trenching in hard caliche and numerous pipelines crossing ditch

Sand is being hauled in for bedding - appears OK.

PFB/jw

cc: John E. Guinn
Jeanne Zoltai
Tom Burt *tb*
Hobbs Office ✓
File

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EID Engineering Division
CONSTRUCTION INSPECTION REPORT

*C. J. ...
... Hobbs
... Office*

Project/Location Gibbs Area Water Project
Hobbs, Lea County
Project No. #SC-80-20, Phase II
Contractor Kent Nowlin Construction Co., Inc.

Report Date July 23, 1981
Date of Inspection July 20, 1981
Report By Percy F. Blair, P.E. PFB
Engineer Brown & West
% Complete 0

Description of Project/Facility Status:

City has changed project:

Proposed 8" line on Calle Sur has been removed from the project. It has been installed as a 10" line by a subdivider who plans to develop area between Navajo Road and existing subdivision on Calle Sur.

City of Hobbs plans to submit a request for a change order to change 8" line on Navajo Road to 10" to connect with 10" line on Calle Sur.

No work started on Navajo Road, Bender or Dal Paso (Denver City Highway).

PFB/jw

- cc: John E. Guinn
- Jeanne Zoltai
- Thomas A. Burt, Jr.
- Hobbs Office
- File

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EID Engineering Division
CONSTRUCTION INSPECTION REPORT

Project/Location Carlsbad Highway Water Project, Report Date July 23, 1981
Hobbs, Lea County Date of Inspection July 20, 1981
Project No. WSC-79-14, Phase II Report By Percy F. Blair, P.E. PFB
Contractor Kent Nowlin Const. Co. Engineer Brown & West
% Complete 50

Description of Project/Facility Status:

Final 50 ft. of West Marland line being backfilled. Previous problem with bedding procedure has been corrected.

Loop on Continental and Broadway Place to be started immediately.

PFB/jw

cc: John E. Guinn
Jeanne Zolati
Thomas A. Burt, Jr.
Hobbs Office
File

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C. L. ...
P.F.B.

CONSTRUCTION INSPECTION REPORT

Project/Location Gibbs Area Water Project, Report Date July 23, 1981
Hobbs, Lea County Date of Inspection July 20, 1981
Project No. WSC-80-20, Phase I Report By Percy F. Blair, P.E. PFB
Contractor Kent Nowlin Construction Co., Inc. Engineer Brown & West
% Complete 0

Description of Project/Facility Status:

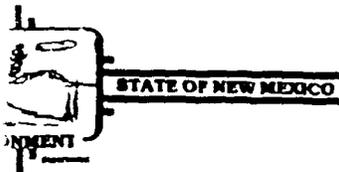
Engineer has staked part of line on Texaco Road; no actual construction started but due to start immediately.

jw

cc: John E. Guinn
Jeanne Zoltai
Thomas A. Burt, Jr.
Hobbs Office
File

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HOBBS OFFICE

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HOBBS OFFICE



MEMORANDUM

DATE: January 30, 1981

Paul McGinnis, P.E.

Percy Blair, P.E. *RFB*

PM

T: CARLSBAD HIGHWAY WATER PROJECT WSC-79-14, PHASE III

The location of this project was re-visited on January 29, 1981 and Polaroid snapshots taken (copies enclosed). As shown, the full length of the proposed line on the North side of Marland is solidly developed with industrial and commercial businesses and currently has no city water service. Many of the private wells and small community water systems are polluted. This line is badly needed.

Also shown is a view looking West on Broadway Pl. from its intersection with Broadway, showing industrial development on both sides of the street. Not shown is the large mobile home park at the intersection of Broadway Pl. and Continental. This entire area is presently without city water, and the new line is badly needed.

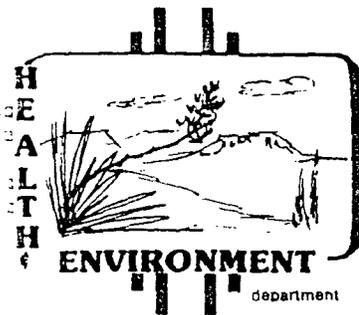
Cross-connection control would have to be exercised by the City of Hobbs, either by disconnection from present sources or installation of backflow preventors, or both.

jw

cc: John E. Guinn
Tom Burt
✓ Hobbs Office
Jeanne Zoltai
File

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STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
406 North Guadalupe
Carlsbad, NM 88220 (505) 885-9023
Thomas E. Baca, M.P.H., Director

Bruce King
GOVERNOR

George S. Goldstein, Ph.D.
SECRETARY

Larry J. Gordon, M.S., M.P.H.
DEPUTY SECRETARY

November 14, 1979

City of Hobbs
P. O. Box 1117
Hobbs, NM 88240

ATTENTION MR. KEN GLEASON, ADMINISTRATIVE ASSISTANT

Gentlemen:

In reply to your inquiry as to the quality of water in private wells located in the western edge of Hobbs and more specifically, the area locally known as the Gibbs Addition, the following is submitted for your information.

It is the policy of our Division to sample private well water systems upon request from the owners. In this particular instance, no effort was made to conduct a comprehensive environmental survey of the area, but rather to respond to requests from the residents. This, together with our personal knowledge of the area, has given us cause to become quite concerned about the possibility of an outbreak of water-borne disease in the Gibbs Addition of Hobbs. Personnel from this office have monitored water wells in this area for the past several years, even prior to the sample data enclosed, and we feel no hesitancy in declaring that an eminent health threat now exists for the residents of this area.

The Gibbs Addition is an area which is not served by public water supply nor by a sanitary sewer. Thus, it has grown into an area which has private wells and private sewage systems on small lots. Many of the individual wells are located near improperly constructed individual liquid waste systems--cesspools and septic tanks. This condition leads to potential contamination from human wastes, which, in turn, increases the potential for disease in the residents.

A review of our records of bacteriological samples from the Gibbs Addition private water wells from February, 1977 through September, 1979 discloses some startling evidence to substantiate this statement. As noted in the attached summary of those sample reports (from the Gibbs area only), of the twenty-six (26) samples collected, more than 80% exceed the limits for bacteria as required for public water systems, while twelve (12) of those--46% of the total--were so heavily contaminated as to be reported from the laboratory as being in excess of the number of bacteria which can be accurately counted.

In the way of explanation, these samples are analyzed by the New Mexico Scientific Laboratory Division for coliform bacteria. These bacteria, of themselves, are not considered to be disease-causing organisms. However, since they originate in the intestinal tract of warm-blooded animals, they do serve to indicate that

RECEIVED
SEP 07 1995
CITY OF HOBBS
OFFICE

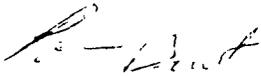
City of Hobbs
November 14, 1979
Page II

bacterial contamination is entering the water system. (Water from underground wells does not ordinarily contain any bacteria if properly protected.)

As can be seen by the above paragraph, the coliform bacteria can be easily associated with those which are capable of causing disease. Thus, you can appreciate our concern for the need to have a safe, dependable source of water for the Gibbs Addition area of Hobbs. We feel that the proposed public water system extensions by the City of Hobbs will significantly reduce or eliminate the potential for a serious water-borne disease outbreak and we encourage any assistance which may be provided to bring this about.

If you have any questions or if we can be of any service in this matter, please feel free to contact me in Carlsbad at 406 North Guadalupe, Phone (505) 885-9023 or in Hobbs at 300 North Linam, Phone (505) 393-2333.

Sincerely,



Tom Burt, District Supervisor

jm

Enclosure: Summary of Laboratory Reports

cc John E. Guinn, Environmental Manager, Roswell
Francisco Garcia, Water Supply Section, E.I.D., Santa Fe
Ivan Hall, SNMEDD, Roswell
E.I.D. Office, Carlsbad
File ✓

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JUD HOBBS
OFFICE

WATER SAMPLES FOR COLIFORM BACTERIA

GIBBS ADDITION

HOBBS, N. M.

C. G. = Confluent Growth

> = Greater Than

TNTC = Too Numerous To Count

RECEIVED
 SEP 27 1977
 U.S. ENVIRONMENTAL
 PROTECTION AGENCY

DATE	NAME	ADDRESS	LAB REPORT	COMMENTS
2-23-77	Shed Sign Company	1700 West Marland	4	
8-9-77	John Stinson, Jr.	3415 West Midwest	25	
8-23-77	Lewis Wright	2701 West Marland	28	Lab report also indicates excessive non-coliform bacteria
9-14-77	John Stinson, Jr.	3415 West Midwest	C. G.	Sample after disinfecting with chlorine bleach
9-27-77	J. D. Stinson, Sr.	3505 West Midwest	11	Lab report also indicated confluent growth of non-coliform bacteria tested after disinfection
10-08-77	J. D. Stinson, Jr.	3505 West Midwest	C. G.	After disinfection
11-02-77	C. W. Ely (Westward Trailer Park)	2921 West Marland	8	" "
11-02-77	" " " "	" " "	11	" "
11-17-77	" " " "	" " "	27	" "
11-21-77	J. D. Stinson, Sr.	3505 West Midwest	> 80	" "
11-29-77	B. R. Bradshaw	1129 South Edwards	> 80	Also excessive non-coliform bacteria

WATER SAMPLES FOR COLIFORM BACTERIA

GIBBS ADDITION

HOBBS, N. M.

RECEIVED
 SEP 07 1995
 UCD HOBBS
 RECEIVED

C. G. = Confluent Growth

> = Greater Than

TNTC = Too Numerous To Count

DATE	NAME	ADDRESS	LAB REPORT	COMMENTS
1-29-78	B. R. Bradshaw	1129 South Edwards	C. G.	After disinfection
2-27-78	George Barshears	Carlsbad Hwy. (U.S. 62-180)	8	Petroleum also suspected, n lab confirmed
3-28-78	C. K. Phillips	808 Texaco	0	
(2-19-77)	C. W. Ely (Westward Trailer Park)	2921 West Marland	0	These samples collected aft permanent chlorinator was 1 stalled on system
(12-19-77)	" " " "	" " "	0	
1-31-79	P. R. Wilson	2623 1/2 West Marland	0	
6-26-79	Hickey	3300 West Marland	C. G.	
7-23-79	"	" " "	C. G.	Taken from same sample pair other bacteria "citrobacter isolated also in one of the samples
7-23-79	"	" " "	C. G.	
7-23-79	"	" " "	C. G.	
7-22-79	B. J. Smith	1007 South Grimes	32	
8-06-79	B. J. Smith	1007 South Grimes	0	TNTC Non-Coliforms (after d infection of well)

WATER SAMPLES FOR COLIFORM BACTERIA

GIBBS ADDITION

HOBBS, N. M.

C. G. = Confluent Growth

> = Greater Than

TNTC = Too Numerous To Count

DATE	NAME	ADDRESS	LAB REPORT	COMMENTS
8-07-79	J. D. Stinson, Sr.	3505 West Midwest	C. G.	
9-18-79	J. D. Stinson, Sr.	" " "	C. G.	
9-18-79	J. D. Stinson, Jr.	3415 West Midwest	C. G.	

TOTAL = 26 Samples (in Gibbs Addition)
 (80.77%) 21 Exceed recommended limits for public water supplies
 (46.15%) 12 had an overgrowth or too many bacteria to accurately count

RECEIVED
 SEP 07 1995
 WCD HOBBS
 OFFICE

CC. JERRY SECTION
 ROGER ANDERSON
 BILL OLSON

Page 1 of 2

NEW MEXICO OIL CONSERVATION COMMISSION
 FIELD TRIP REPORT

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER
			HOURS	HOURS
W	O	O	2	O

Name WAYNE PRICE Date _____ Miles _____ District I
 Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [Signature]

9/1/95 - LEE ROBERTS WATER WELL
 807 RASH - HOBBS N.M.
 SAMPLED WATER FROM SPIGOT;
 CITY OF HOBBS RAN FIELD TEST
 FOR BTEX \approx .6 mg/l USING
 DTECH MCT TK-1003-1

9/6/95 - SAMPLED TOP of WATER WELL USING
 PLASTIC DISPOSABLE BAILET WITH MP.
 ROBERTS - RESULTS: WATER CLEAR, MODERATE
 HYDROCARBON SMELL, PID (PTEX - HEAD SPACE) \approx 220 ppm
 CL = 35 ppm TDS = 800 uMhos - RAN BLANK PID \approx 20 ppm

<u>Mileage</u>	<u>Per Diem</u>	<u>Hours</u>
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

INSPECTION CLASSIFICATION

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- H = Housekeeping
- P = Plugging
- C = Plugging Cleanup
- T = Well Test
- R = Repair/Workover
- F = Waterflow
- M = Mishap or Spill
- W = Water Contamination
- O = Other

- U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R = Inspections relating to Reclamation Fund Activity
- O = Other - Inspections not related to injection or The Reclamation Fund

E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

- D = Drilling
- P = Production
- I = Injection
- C = Combined prod. inj. operations
- S = SWD
- U = Underground Storage
- G = General Operation
- F = Facility or location
- M = Meeting
- O = Other

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

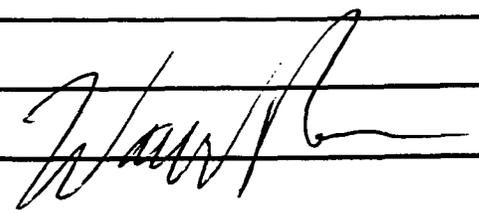
INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER
			HOURS	HOURS

Name WAYNE PRICE Date _____ Miles _____ District I
 Time of Departure 7 AM Time of Return 4 PM Car No. G 0472

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature _____

WATER WELL LOCATED INSIDE SMALL STORAGE SHED - CASING ON WELL IS FLUSH WITH FLOOR RECOMMENDED THAT CASING BE EXTENDED UP TO PREVENT RAIN WATER, FLOODS ETC FROM ENTERING WELL-BORER; ALSO RECOMMENDED THAT MR. ROBERTS SHOULD THINK ABOUT CONNECTING TO CITY OF HOBBS FRESH WATER LINE.



<u>Mileage</u>	<u>Per Diem</u>	<u>Hours</u>
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED	INSPECTION CLASSIFICATION	NATURE OF SPECIFIC WELL OR FACILITY INSPECTED
H = Housekeeping P = Plugging C = Plugging Cleanup T = Well Test R = Repair/Workover F = Waterflow M = Mishap or Spill W = Water Contamination O = Other	U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.) R = Inspections relating to Reclamation Fund Activity O = Other - Inspections not related to injection or The Reclamation Fund	D = Drilling P = Production I = Injection C = Combined prod. inj. operations S = SWD U = Underground Storage G = General Operation F = Facility or location M = Meeting O = Other
E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)		



CITY OF HOBBS
300 N. Turner
Hobbs, NM 88240
Lab # 9411

MICROBIOLOGICAL WATER REPORT

Time Test Began 12:30 ~~11:55 AM~~ Date 8-29-95 ~~8/29/95~~
Time Test Ended 1:30 ~~11:00 AM~~ Date 8-30-95

Date Received 8-29-95
Time Received 11:09
Received by TS

SAMPLE IDENTIFICATION			TESTING REQUIRED	
Quality Control No. 95 U 37		County LEA	<input type="checkbox"/> MF-Total Coliform <input checked="" type="checkbox"/> MMO MUG-Total Coliform	
Water Supply System Name LEE ROBERTS 807 RASH - HOBBS			WSS Code No.	
COLLECTION INFORMATION			LABORATORY TEST RESULTS	
Date Collected Mo. Day Yr. 8 29 95	Time Collected 11:00AM	Collected By WAYNE PRICE	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Present
			Fecal Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	E. coli / 100 ml <input checked="" type="checkbox"/> Absent <input type="checkbox"/> Present
Collection Point WATER WELL SIPPER			INVALID SAMPLE	
TYPE OF SYSTEM			If one of the following is checked, resample. <input type="checkbox"/> TNTC Non-Coliforms <input type="checkbox"/> Confluent Growth	
Check One <input type="checkbox"/> Public Non-Community <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Public Community <input checked="" type="checkbox"/> Private Well Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Residual: _____ mg / l (required for fecal test)			REJECTED SAMPLE	
REASON FOR SAMPLING			If one of the following is checked, resample. <input type="checkbox"/> Sample too old. <input type="checkbox"/> Temperature violation. (above 10° C) <input type="checkbox"/> Form incomplete. See circled item. <input type="checkbox"/> Date discrepancy. <input type="checkbox"/> Leaking Sample. <input type="checkbox"/> Quantity insufficient for testing. <input type="checkbox"/> Quantity too great to permit agitation. <input type="checkbox"/> Turbid sample. <input type="checkbox"/> Other _____	
Check One <input type="checkbox"/> Routine Sample <input checked="" type="checkbox"/> Special Sample <input type="checkbox"/> Check Sample <input type="checkbox"/> Monitor Sample			FOR INTERPRETATION OF RESULTS CALL THE NEW MEXICO ENVIRONMENT DEPARTMENT AT 393-4302.	

NOTE: FLAMED END of SIPPER / USED GLOVES / ICE SAMPLE

SEND REPORT AND BILL TO THE FOLLOWING:

NAME WAYNE PRICE
COMPANY NM OIL CONSERVATION DIV
ADDRESS 1000 W BROADWAY
PHONE 505-393-6161

Tom Smith
Bacteriologist

A FEE OF \$10.00 PLUS TAX IS CHARGED FOR EACH TEST.

OFFICE USE ONLY

ACCT. #

Called Lee Roberts on
referred 393-9697 - I will
ALBE Turner!

NITROGEN, NITRATE, HIGH RANGE

500.0 nm

NitraVer 5 Accu

Lee Roberts - 807 Rash as per Wayne Price (NMCD)

Tom Smith

07/11/1995 - 4:08 PM

Sample	Value	Comment
1	0.0 mg/L	Blank
2	2.1 mg/L	Sample

INVOICE

UTILITY DIVISION — CITY OF HOBBS

Phone (505) 397-9216 300 North Turner
HOBBS, NEW MEXICO 88240

SEP 13 1995

ACCT # 2000420

Wayne Price
New Mexico Oil Conservation
1000 W. Broadway
Hobbs, NH 88240

INVOICE

104915

DATE

09-06-1995

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
1	Water test-807 Rash Lee Roberts 08-29-95	10.00	10.00
		SUBTOTAL	\$10.00
		TAX	0.60
		TOTAL	\$10.60
		SEP 28 1995	Notice

TO INSURE PROPER CREDIT, PLEASE PUT INVOICE NUMBER AND LOCATION TESTED ON YOUR CHECK.
PLEASE RETURN ONE COPY OF INVOICE WITH PAYMENT. THANK YOU.

CC 2 3LWIA
10/3/95



CITY OF HOBBS
300 N. Turner
Hobbs, NM 88240
Lab # 9411

MICROBIOLOGICAL WATER REPORT

Time Test Began 12:30 ~~8:55 AM~~ Date 8-29-95 ~~8/29/95~~
Time Test Ended 1:30 ~~11:00 AM~~ Date 8-30-95 ~~8-30-95~~

Date Received 8-29-95
Time Received 11:09
Received by TS

SAMPLE IDENTIFICATION			TESTING REQUIRED	
Quality Control No. <u>95 U 37</u>		County <u>LEA</u>	<input type="checkbox"/> MF-Total Coliform <input checked="" type="checkbox"/> MMO MUG-Total Coliform	
Water Supply System Name <u>LEE ROBERTS</u> <u>807 RASH - HOBBS</u>			WSS Code No.	
COLLECTION INFORMATION			LABORATORY TEST RESULTS	
Date Collected Mo. Day Yr. <u>8 29 95</u>	Time Collected <u>11:00AM</u>	Collected By <u>WAYNE PRICE</u>	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input checked="" type="checkbox"/> Present
Collection Point <u>WATER WELL SIPPET</u>			Fecal Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	E. coli / 100 ml <input checked="" type="checkbox"/> Absent <input type="checkbox"/> Present
TYPE OF SYSTEM			INVALID SAMPLE	
Check One <input type="checkbox"/> Public Non-Community <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Public Community <input checked="" type="checkbox"/> Private Well Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Residual: _____ mg / l (required for fecal test)			If one of the following is checked, resample. <input type="checkbox"/> TNTC Non-Coliforms <input type="checkbox"/> Confluent Growth	
REASON FOR SAMPLING			REJECTED SAMPLE	
Check One <input type="checkbox"/> Routine Sample <input checked="" type="checkbox"/> Special Sample <input type="checkbox"/> Check Sample <input type="checkbox"/> Monitor Sample			If one of the following is checked, resample. <input type="checkbox"/> Sample too old. <input type="checkbox"/> Temperature violation. (above 10° C) <input type="checkbox"/> Form incomplete. See circled item. <input type="checkbox"/> Date discrepancy. <input type="checkbox"/> Leaking Sample. <input type="checkbox"/> Quantity insufficient for testing. <input type="checkbox"/> Quantity too great to permit agitation. <input type="checkbox"/> Turbid sample. <input type="checkbox"/> Other _____	
			FOR INTERPRETATION OF RESULTS CALL THE NEW MEXICO ENVIRONMENT DEPARTMENT AT 393-4302.	

NOTE: FLAMED END of SIPPET / USDA GLOVES / ICE SAMPLE

SEND REPORT AND BILL TO THE FOLLOWING:

NAME WAYNE PRICE
COMPANY NM OIL CONSERVATION DIV
ADDRESS 1000 W BROADWAY
PO Box 1980
PHONE 505-393-6161

Tom Smith
Bacteriologist

A FEE OF \$10.00 PLUS TAX IS CHARGED FOR EACH TEST.

OFFICE USE ONLY
ACCT. #

STATE OF
NEW MEXICO
OIL
CONSERVATION
DIVISION



MEMORANDUM OF MEETING OR CONVERSATION

Telephone Personal

Time
9:15 AM

Date 8/28/75

Originating Party

Other Parties

LEE ROBERTS - 807 RASH HOBBS

Subject

WATER WELL

Discussion

MR. ROBERTS REQUESTED NMOC INVESTIGATE
SOURCE OF CONTAMINATION

MR. ROBERTS: INDICATED NORRIS SUCKER POND
CO. IS WASHING OFF PMS + WATER IS
DISCHARGING TO GROUND.

Conclusions or Agreements

DISTRICT SUPERVISOR RE COMMENTS RUN NITRATES
DUE TO PREVIOUS NITRATE CONTAMINATION IN AREA!

Distribution CC: JERRY SEXTON
ROGER ANDERSON

Signed

cc. JERRY SEXTON
ROGER ANAFOLSO

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

INSPECTION
CLASSIFICATION
FACILITY
HOURS
QUARTER
HOURS

Name WAYNE PRICE Date 8/27/95 Miles _____ District I
 Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [Handwritten Signature]

RE: LEE ROBERTS WATER WELL
807 RASH HOBBS N.M

TOOK WATER SAMPLE - city
of Hobbs TO RUN NO₃ & BIO-

<u>Mileage</u>	<u>Per Diem</u>	<u>Hours</u>
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

INSPECTION CLASSIFICATION

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- H = Housekeeping
- P = Plugging
- C = Plugging Cleanup
- T = Well Test
- R = Repair/Workover
- F = Waterflow
- M = Mishap or Spill
- W = Water Contamination
- O = Other

- U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SND, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R = Inspections relating to Reclamation Fund Activity
- O = Other - Inspections not related to injection or The Reclamation Fund

- D = Drilling
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- C = Combined prod. inj. operations
- S = SND
- U = Underground Storage
- G = General Operation
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- O = Other

E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)



CITY OF HOBBS
300 N. Turner
Hobbs, NM 88240
Lab # 9411

MICROBIOLOGICAL WATER REPORT

Date Received 5/29/95

Time Received 11:00

Received by [Signature]

Time Test Began 10:55 AM Date 5/29/95

Time Test Ended 11:00 AM Date 5/29/95

SAMPLE IDENTIFICATION			TESTING REQUIRED	
Quality Control No. <u>05 H 37</u>		County <u>LEA</u>	<input type="checkbox"/> MF-Total Coliform <input type="checkbox"/> MMO MUG-Total Coliform	
Water Supply System Name <u>LEE ROBERTS 1807 RASH - HOBBS</u>		WSS Code No.	LABORATORY TEST RESULTS	
COLLECTION INFORMATION		Total Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Present		
Date Collected Mo. Day Yr. <u>5 29 95</u>	Time Collected <u>11:00 AM</u>	Collected By <u>WAYNE PRICE</u>	Fecal Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Present	
Collection Point <u>WATER WELL 5199E</u>		INVALID SAMPLE		
TYPE OF SYSTEM		If one of the following is checked, resample. <input type="checkbox"/> TNTC Non-Coliforms <input type="checkbox"/> Confluent Growth		
Check One <input type="checkbox"/> Public Non-Community <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Public Community <input checked="" type="checkbox"/> Private Well Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Residual: _____ mg / l (required for fecal test)		REJECTED SAMPLE		
REASON FOR SAMPLING		If one of the following is checked, resample. <input type="checkbox"/> Sample too old. <input type="checkbox"/> Temperature violation. (above 10° C) <input type="checkbox"/> Form incomplete. See circled item. <input type="checkbox"/> Date discrepancy. <input type="checkbox"/> Leaking Sample. <input type="checkbox"/> Quantity insufficient for testing. <input type="checkbox"/> Quantity too great to permit agitation. <input type="checkbox"/> Turbid sample. <input type="checkbox"/> Other _____		
Check One <input type="checkbox"/> Routine Sample <input checked="" type="checkbox"/> Special Sample <input type="checkbox"/> Check Sample <input type="checkbox"/> Monitor Sample		FOR INTERPRETATION OF RESULTS CALL THE NEW MEXICO ENVIRONMENT DEPARTMENT AT 393-4302.		

NOTE: FLAMED SPA - A SIPPET / USED GLOVES / ICE SAMPLE

SEND REPORT AND BILL TO THE FOLLOWING:

NAME MM WAYNE PRICE

COMPANY NM OIL CONSERVATION DIV

ADDRESS 1000 W BRADWAY

PHONE 505-393-6161

Bacteriologist _____

A FEE OF \$10.00 PLUS TAX IS CHARGED FOR EACH TEST.

OFFICE USE ONLY

ACCT. #

cc: ROGER AMERSON
BILL OLSON
JERRY SEBASTON
MILEAGE:

UIC: _____
OTHER: _____

OIL CONSERVATION DIVISION
COMPLAINT FORM

PERSON COMPLAINING:
NAME: Lee ROBERTS
ADDRESS: 807 RASH
HOBBS N.M. 88240

INFORMATION TAKEN BY:
TAKEN BY: WAYNE PRICE
DATE: 8/14/95 TIME: 2:30 PM
IN PERSON: ✓ BY PHONE: _____

PHONE: 393-9697

COMPLAINT: WATER FROM WELL IS CONTAMINATED - NMED REFERRED HIM TO NMOC.

COMMENTS: WATER HAS HYDROCARBON IN IT. BAD SMELL & TASTE
WATER HAS BEEN GOOD IN PAST

- INVESTIGATION -

INVESTIGATOR: WAYNE PRICE - NMOC
DATE: 8/14/95
TIME: 3:15 PM

DESCRIBE INVESTIGATION AND FINDINGS: TOOK WATER SAMPLE AT
WATER WELL TANK -

RESULTS OF FIELD TEST - TDS ~ 1100 UMG/L
CL ~ 75 PPM ; PH 7-8
BTEX (PID) MAX = 695 PPM (HEAD SPACE)
OLFACTORY - SLIGHT TO MODERATE SMELL
VISUAL - CLEAR WATER

WATER APPEARS TO BE CONTAMINATED WITH VOLATILE HYDROCARBON
SOURCE UNKNOWN!!

- FOLLOW-UP -

DATE: _____
TIME: _____
ACTION TAKEN: _____

*ATTACH ADDITIONAL SHEETS, IF NECESSARY



Analytical **Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 511344

December 22, 1995

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Project Name/Number: ROBERTS WELL

Attention: Mark Ashley

On 11/15/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8010/8020 analyses were performed by Analytical Technologies, Inc., Albuquerque, NM.

EPA method 300.0, 325.2, 340.2, 353.2, 150.1, 375.2 and 160.1 analyses were performed by Analytical Technologies, Inc., 9830 S. 51st Street, Suite B-113, Phoenix, AZ.

All other analyses were performed by Analytical Technologies, Inc., 225 Commerce Drive, Fort Collins, CO.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Analytical **Technologies**, Inc.

CLIENT : NMOCD
PROJECT # : (NONE)
PROJECT NAME : ROBERTS WELL

DATE RECEIVED : 11/15/95
REPORT DATE : 12/22/95

ATI ID: 511344

	ATI ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	511344-01	1540111495	AQUEOUS	11/18/95

---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
AQUEOUS	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 511832

CLIENT : ANALYTICAL TECHNOLOGIES OF NM, INC. DATE RECEIVED : 11/17/95
PROJECT # : 511344
PROJECT NAME : ROBERTS WELL REPORT DATE : 12/22/95

PARAMETER	UNITS	01
CARBONATE (CACO3)	MG/L	<1
BICARBONATE (CACO3)	MG/L	367
HYDROXIDE (CACO3)	MG/L	<1
TOTAL ALKALINITY (AS CACO3)	MG/L	367
BROMIDE (EPA 300.0)	MG/L	0.4
CHLORIDE (EPA 325.2)	MG/L	126
CONDUCTIVITY, (UMHOS/CM)		944
FLUORIDE (EPA 340.2)	MG/L	1.41
NO2/NO3-N, TOTAL (353.2)	MG/L	1.1
PH (EPA 150.1)	UNITS	7.2
SULFATE (EPA 375.2)	MG/L	76
T. DISSOLVED SOLIDS (160.1)	MG/L	670



Analytical **Technologies, Inc.**

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : ANALYTICAL TECHNOLOGIES OF NM, INC.
 PROJECT # : 511344
 PROJECT NAME : ROBERTS WELL

ATI I.D. : 511832

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CARBONATE	MG/L	51177005	<1	<1	NA	NA	NA	NA
BICARBONATE	MG/L		663	662	0.2	NA	NA	NA
HYDROXIDE	MG/L		<1	<1	NA	NA	NA	NA
TOTAL ALKALINITY	MG/L		663	662	0.2	NA	NA	NA
BROMIDE	MG/L	51183201	0.4	0.5	22	2.8	2.0	120
CHLORIDE	MG/L	51181102	610	630	3	1150	500	108
CONDUCTIVITY (UMHOS/CM)		51187001	10700	10800	0.9	NA	NA	NA
FLUORIDE	MG/L	51183201	1.41	1.40	0.7	2.80	1.40	99
NITRITE/NITRATE-N (TOT)	MG/L	51249903	0.29	0.29	0	2.32	2.00	102
PH	UNITS	51177005	6.0	6.0	0	NA	NA	NA
SULFATE	MG/L	51178605	150	150	0	350	200	100
TOTAL DISSOLVED SOLIDS	MG/L	51183201	670	670	0	NA	NA	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



Analytical**Technologies**, Inc.

TOTAL POTASSIUM
MODIFIED METHOD 6010

Lab Name: Analytical Technologies of Colorado, Inc.
Client Name: ATI-NM
Client Project ID: Roberts Well - NMO
Work Order Number: 95-11-163

Sample Matrix: Aqueous

Date Collected: 11/14/95
Prep Date: 11/21/95
Date Analyzed: 11/21/95

Analyte	Client Sample ID	Lab Sample ID	Concentration mg/L	Detection Limit mg/L
Potassium	Reagent Blank	RB 95-11-163	ND	1
Potassium	1540111495	95-11-163-01	3	1

ND = NOT DETECTED



Analytical Technologies, Inc.

TOTAL POTASSIUM
MATRIX SPIKE

Lab Name: Analytical Technologies Inc.
Client Name: ATI-NM
Lab Sample ID: 95-11-163-01

Sample ID
1540111495

Sample Matrix: Aqueous

Prep Date: 11/21/95
Date Analyzed: 11/21/95

Analyte	Spike Added mg/L	Sample Conc. mg/L	MS Conc. mg/L	% REC (limits 80-120%)	Flags
POTASSIUM	40	3	43	100	

Analyte	MSD Conc. mg/L	MSD % REC (limits 80-120%)	Relative % Difference (limits 0-20%)	Flags
POTASSIUM	3	43	100	

TOTAL METALS



Analytical Technologies, Inc.

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI - NM

Client Project ID: Roberts Well - NMO

Lab Sample ID: 95-11-163-01

Sample Matrix: Aqueous

Sample ID

1540111495

Date Collected: 11/14/95

Prep Date: 11/21/95

Date Analyzed: 11/21/95

Analyte	Modified Method	Concentration mg/L	Detection Limit mg/L
Aluminum	6010	ND	0.2
Antimony	6010	ND	0.02
Arsenic	6010	ND	0.01
Barium	6010	0.1	0.1
Beryllium	6010	ND	0.005
Boron	6010	0.2	0.1
Cadmium	6010	ND	0.005
Calcium	6010	140	1
Chromium	6010	ND	0.01
Cobalt	6010	ND	0.01
Copper	6010	ND	0.01
Iron	6010	0.8	0.1
Lead	6010	ND	0.003
Magnesium	6010	25	1
Manganese	6010	0.14	0.01
Molybdenum	6010	ND	0.01
Nickel	6010	ND	0.02
Selenium	6010	ND	0.005
Silicon	6010	29	0.05
Silver	6010	ND	0.01
Sodium	6010	56	1
Thallium	6010	ND	0.01
Vanadium	6010	0.01	0.01
Zinc	6010	0.15	0.02

ND = Not Detected

TOTAL METALS



Analytical **Technologies, Inc.**

Lab Name: Analytical Technologies of Colorado, Inc.
Client Name: ATI - NM
Client Project ID: Roberts Well - NMO
Lab Sample ID: RB 95-11-163

Sample ID

Reagent Blank

Date Collected: N/A
Prep Date: 11/21/95
Date Analyzed: 11/21/95

Analyte	Modified Method	Concentration mg/L	Detection Limit mg/L
Aluminum	6010	ND	0.2
Antimony	6010	ND	0.02
Arsenic	6010	ND	0.01
Barium	6010	ND	0.1
Beryllium	6010	ND	0.005
Boron	6010	ND	0.1
Cadmium	6010	ND	0.005
Calcium	6010	ND	1
Chromium	6010	ND	0.01
Cobalt	6010	ND	0.01
Copper	6010	ND	0.01
Iron	6010	ND	0.1
Lead	6010	ND	0.003
Magnesium	6010	ND	1
Manganese	6010	ND	0.01
Molybdenum	6010	ND	0.01
Nickel	6010	ND	0.02
Selenium	6010	ND	0.005
Silicon	6010	ND	0.05
Silver	6010	ND	0.01
Sodium	6010	ND	1
Thallium	6010	ND	0.01
Vanadium	6010	ND	0.01
Zinc	6010	ND	0.02

ND = Not Detected

**TOTAL METALS
MATRIX SPIKE**



Analytical Technologies, Inc.

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI - NM

Lab Sample ID: 95-11-163-01

1540111495

Prep Date: 11/21/95

Date Analyzed: 11/21/95

Sample Matrix: Aqueous

Analyte	Spike Added mg/L	Sample Conc. mg/L	MS Conc. mg/L	% Rec (limits 80-120%)	Flags
Aluminum	2.0	< 0.2	2.1	105	
Antimony	0.50	< 0.02	0.50	100	
Arsenic	2.0	< 0.01	2.1	105	
Barium	2.0	0.1	2.2	105	
Beryllium	0.050	< 0.005	0.050	100	
Boron	1.0	0.2	1.2	100	
Cadmium	0.050	< 0.005	0.050	100	
Calcium	40	140	180	100	
Chromium	0.20	< 0.01	0.20	100	
Cobalt	0.50	< 0.01	0.49	98	
Copper	0.25	< 0.01	0.26	104	
Iron	1.0	0.8	1.8	100	
Lead	0.50	< 0.003	0.49	98	
Magnesium	40	25	65	100	
Manganese	0.50	0.14	0.62	96	
Molybdenum	1.0	< 0.01	1.0	100	
Nickel	0.50	< 0.02	0.50	100	
Selenium	2.0	< 0.005	2.1	105	
Silicon	0.50	29	30	200	See note
Silver	0.20	< 0.01	0.19	95	
Sodium	40	56	96	100	
Thallium	2.0	< 0.01	2.0	100	
Vanadium	0.50	0.01	0.51	100	
Zinc	0.50	0.15	0.70	110	

Flags described on following page.

**TOTAL METALS
MATRIX SPIKE DUPLICATE**



Analytical **Technologies**, Inc.

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI - NM

Lab Sample ID: 95-11-163-01

1540111495

Prep Date: 11/21/95

Date Analyzed: 11/21/95

Sample Matrix: Aqueous

Analyte	MSD Conc. mg/L	MSD % Rec (limits 80-120%)	Relative % Difference (limits 0-20%)	Flags
Aluminum	2.1	105	0	
Antimony	0.51	102	2	
Arsenic	2.1	105	0	
Barium	2.2	105	0	
Beryllium	0.051	102	2	
Boron	1.2	100	0	
Cadmium	0.052	104	4	
Calcium	180	100	0	
Chromium	0.21	105	5	
Cobalt	0.51	102	4	
Copper	0.26	104	0	
Iron	1.8	100	0	
Lead	0.49	98	0	
Magnesium	66	103	2	
Manganese	0.64	100	3	
Molybdenum	1.0	100	0	
Nickel	0.52	104	4	
Selenium	2.2	110	5	
Silicon	30	200	0	See note
Silver	0.20	100	5	
Sodium	98	105	2	
Thallium	2.0	100	0	
Vanadium	0.52	102	2	
Zinc	0.64	98	9	

Note: Due to the large concentration of analyte in the sample, matrix spike recoveries may not be accurate. The Laboratory Control Sample (LCS) is included on a separate page to show that the digestion and analysis were in control.



Analytical **Technologies**, Inc.

**TOTAL METALS
LABORATORY CONTROL SAMPLE**

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI - NM

Client Project ID: Roberts Well - NMO

Work Order Number: 95-11-163

Date Analyzed: 11/21/95

Analyte	LCS Result mg/L	LCS True Value mg/L	LCS % Recovery	Limits
Silicon	0.51	0.50	102	80 - 120%

GAS CHROMATOGRAPHY RESULTS



Analytical **Technologies, Inc.**

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 601/602)
 CLIENT : NMOCD ATI I.D.: 511344
 PROJECT # : (NONE)
 PROJECT NAME : ROBERTS WELL

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	1540111495	AQUEOUS	11/18/95	NA	11/23/95	20

PARAMETER UNITS 01

BENZENE	UG/L	1300	.13	.01	.5
BROMODICHLOROMETHANE	UG/L	<4.0			
BROMOFORM	UG/L	<10.0			
BROMOMETHANE	UG/L	<20.0			
CARBON TETRACHLORIDE	UG/L	<4.0			
CHLOROBENZENE	UG/L	<10			
CHLOROETHANE	UG/L	<10			
CHLOROFORM	UG/L	<10			
CHLOROMETHANE	UG/L	<20			
DIBROMOCHLOROMETHANE	UG/L	<4.0			
1,2-DIBROMOETHANE (EDB)	UG/L	<4.0			
1,2-DICHLOROBENZENE	UG/L	<10			
1,3-DICHLOROBENZENE	UG/L	<10			
1,4-DICHLOROBENZENE	UG/L	<10			
1,1-DICHLOROETHANE	UG/L	<6.0			
1,2-DICHLOROETHANE (EDC)	UG/L	<10			
1,1-DICHLOROETHENE	UG/L	<4.0			
CIS-1,2-DICHLOROETHENE	UG/L	<4.0			
TRANS-1,2-DICHLOROETHENE	UG/L	<20			
1,2-DICHLOROPROPANE	UG/L	<4.0			
CIS-1,3-DICHLOROPROPENE	UG/L	<4.0			
TRANS-1,3-DICHLOROPROPENE	UG/L	<4.0			
ETHYLBENZENE	UG/L	31	.031	.76	
METHYL-t-BUTYL ETHER	UG/L	<50			
METHYLENE CHLORIDE	UG/L	<40			
1,1,2,2-TETRACHLOROETHANE	UG/L	<4.0			
TETRACHLOROETHENE	UG/L	<10			
TOLUENE	UG/L	59	.059	.73	
1,1,1-TRICHLOROETHANE	UG/L	<20			
1,1,2-TRICHLOROETHANE	UG/L	<4.0			
TRICHLOROETHENE	UG/L	<6.0			
TRICHLOROFLUOROMETHANE	UG/L	<4.0			
VINYL CHLORIDE	UG/L	<10			
TOTAL XYLENES	UG/L	570	.57	.62	

SURROGATES:

BROMOCHLOROMETHANE (%)	99
TRIFLUOROTOLUENE (%)	100



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 601/602	ATI I.D.	: 511344
BLANK I.D.	: 112295	MATRIX	: AQUEOUS
CLIENT	: NMOCD	DATE EXTRACTED	: NA
PROJECT #	: (NONE)	DATE ANALYZED	: 11/22/95
PROJECT NAME	: ROBERTS WELL	DIL. FACTOR	: 1

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
BROMODICHLOROMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.3
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2
ETHYLBENZENE	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<2.5
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2
TETRACHLOROETHENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATES:

BROMOCHLOROMETHANE (%)	104
TRIFLUOROTOLUENE (%)	109



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 601/602)
 MSMSD # : 51132801 ATI I.D. : 511344
 CLIENT : NMOCD DATE EXTRACTED : NA
 PROJECT # : (NONE) DATE ANALYZED : 11/22/95
 PROJECT NAME : ROBERTS WELL SAMPLE MATRIX : AQUEOUS
 REF. I.D. : 51132801 UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
BENZENE	<0.5	10	9.0	90	9.2	92	2
CHLOROBENZENE	<0.5	10	8.6	86	9.7	97	12
1,1-DICHLOROETHENE	<0.2	10	8.2	82	8.0	80	2
TOLUENE	<0.5	10	9.1	91	9.6	96	5
TRICHLOROETHENE	<0.3	10	9.5	95	9.2	92	3

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 610



Analytical **Technologies, Inc.**

Lab Name: Analytical Technologies Inc.

Client Name: ATI-NM

Client Project ID: Roberts Well - NMO

Lab Sample ID: 95-11-163-01

Sample Matrix: Water

Cleanup: N/A

Sample ID

1540111495

Date Collected: 11/14/95

Date Extracted: 11/20/95

Date Analyzed: 11/22/95

Sample Volume: 1000 mL

Final Volume: 10 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	10	5.0
Acenaphthylene	3.3 J	10
1-Methylnaphthalene	ND	10
2-Methylnaphthalene	33	10
Acenaphthene	ND	10
Fluorene	ND	1.0
Phenanthrene	ND	0.50
Anthracene	ND	1.0
Fluoranthene	ND	1.0
Pyrene	ND	0.50
Benzo(a)anthracene	ND	0.50
Chrysene	ND	0.50
Benzo(b)fluoranthene	ND	1.0
Benzo(k)fluoranthene	ND	0.50
Benzo(a)pyrene	ND	0.50
Dibenzo(a,h)anthracene	ND	1.0
Benzo(g,h,i)perylene	ND	1.0
Indeno(1,2,3-c,d)pyrene	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	70	34 - 120

ND = Not Detected at or above client requested detection limit.

J = Estimated value. Below detection limits.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 610



Analytical **Technologies, Inc.**

Lab Name: Analytical Technologies Inc.

Client Name: ATI-NM

Client Project ID: Roberts Well - NMO

Lab Sample ID: WRB1 11/20/95

Sample Matrix: Water

Cleanup: N/A

Sample ID

Reagent Blank

Date Collected: N/A

Date Extracted: 11/20/95

Date Analyzed: 11/22/95

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Fluoranthene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthene	ND	0.10
Benzo(k)fluoranthene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	90	34 - 120

ND = Not Detected at or above client requested detection limit.

POLYNUCLEAR AROMATIC HYDROCARBONS BLANK SPIKE

Method 610



Analytical **Technologies**, Inc.

Lab Name: Analytical Technologies Inc.

Lab Sample ID: WBS1,2 11/20/95

Client Name: ATI-NM

Date Extracted: 11/20/95

Client Project ID: Roberts Well - NMO

Date Analyzed: 11/22/95

Sample Matrix: Water

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Spike Added (ug/L)	BS Concentration (ug/L)	BS Percent Recovery	QC Limits % Rec
Acenaphthylene	10	6.96	70	36 - 113
Phenanthrene	1.0	0.866	87	30 - 114
Pyrene	1.0	0.966	97	43 - 108
Dibenzo(a,h)anthracene	1.0	0.848	85	42 - 111
Benzo(k)fluoranthene	0.25	0.228	91	35 - 104

Analyte	Spike Added (ug/L)	BSD Concentration (ug/L)	BSD Percent Recovery	RPD	QC Limits RPD
Acenaphthylene	10	6.67	67	4	20
Phenanthrene	1.0	0.845	85	2	20
Pyrene	1.0	0.971	97	0.5	20
Dibenzo(a,h)anthracene	1.0	0.832	83	2	20
Benzo(k)fluoranthene	0.25	0.227	91	0.6	20

SURROGATE RECOVERY BS/BSD

Analyte	% Recovery(BS)	% Recovery(BSD)	% Rec Limits
2-Chloroanthracene	90	86	34 - 120

Interlab Chain of Custody

DATE: 11/16/03

DATE: 11/16 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. MCNEILL

COMPANY: Analytical Technologies of New Mexico, Inc.
 ADDRESS: 2709-D Pan American Freeway, NE
 Albuquerque, NM 87107

PROJECT MANAGER: Kim McNeill

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
S11344-01	11/14	1540	AQ	01

ANALYSIS REQUEST	RECEIVED	RECEIVED
Metals - TAL		
Metals - PP List		
Metals - RCRA		
RCRA Metals by TCLP (1311)		
Metals ICP - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Si, Ag, TOX Na, Tl, V, Zn	X	
TOC		
Gen Chemistry		
Oil and Grease		
BOD		
COD		
Pesticides/PCB (608/8080)		
Herbicides (615/8150)		
Base/Neutral Acid Compounds GC/MS (625/8270)		
Volatile Organics GC/MS (624/8240)		
Polynuclear Aromatics (610/8270)	X	
8240 (TCLP 1311) ZHE		
8270 (TCLP 1311)		
TO-14		
Gross Alpha/Beta		
NUMBER OF CONTAINERS	3	

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
PROJECT NUMBER: S11344	TOTAL NUMBER OF CONTAINERS: 3	SAN DIEGO	Signature: Andrew Parker Date: 11/16	Signature: Fedey Date: 11/15/03
PROJECT NAME: Roberts Well - NMO	CHAIN OF CUSTODY SEALS: y	FT. COLLINS	Printed Name: Andrew Parker	Printed Name: Fedey
OC LEVEL: STD IV	INTACT?: y	RENTON	Company: Analytical Technologies of New Mexico, Inc. Albuquerque	Company: ATTC
QC REQUIRED: MS MSD BLANK	RECEIVED GOOD COND: COLD y	PENSACOLA	RECEIVED BY: 1.	RECEIVED BY: (LAB) 2.
TAT STANDARD RUSHI	LAB NUMBER: IWS04 KM1097	PHOENIX	Signature: Fedey Date: 11/15/03	Signature: Fedey Date: 11/15/03
DUE DATE: 11/27			Printed Name: Fedey	Printed Name: Fedey
RUSH SURCHARGE: No			Date: 11/15/03	Date: 11/15/03
CLIENT DISCOUNT: Quote			Company: ATTC	Company: ATTC
SPECIAL CERTIFICATION REQUIRED: YES NO				



Analytical Technologies, Inc., Albuquerque, NM
 San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: _____ PAGE _____ OF _____

ATI LAB I.D.

PROJECT MANAGER:

COMPANY: _____
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 BILL TO: _____
 COMPANY: _____
 ADDRESS: _____

SAMPLE ID DATE TIME MATRIX LAB ID

ANALYSIS REQUEST	SAMPLE ID	DATE	TIME	MATRIX	LAB ID
Petroleum Hydrocarbons (418.1)					
(MOD 8015) Gas/Diesel					
Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)					
BTXE/MTBE (8020)					
Chlorinated Hydrocarbons (601/8010)					
Aromatic Hydrocarbons (602/8020)					
SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.					
Pesticides/PB (608/8080)					
Herbicides (615/8150)					
Base/Neutral/Acid Compounds GC/MS (625/8270)					
Volatile Organics GC/MS (624/8240)					
Polynuclear Aromatics (610/8310)					
SDWA Primary Standards - Arizona					
SDWA Secondary Standards - Arizona					
SDWA Primary Standards - Federal					
SDWA Secondary Standards - Federal					
The 13 Priority Pollutant Metals					
RCRA Metals by Total Digestion					
RCRA Metals by TCLP (1311)					
NUMBER OF CONTAINERS					

PROJECT INFORMATION

PROJ. NO.: _____
 PROJ. NAME: _____
 P.O. NO.: _____
 SHIPPED VIA: _____

SAMPLE RECEIPT

NO. CONTAINERS: _____
 CUSTODY SEALS: Y / N / NA
 RECEIVED INTACT:
 RECEIVED COLD:

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) 24hr 48hr 72hr 1 WEEK (NORMAL) 2 WEEK

Comments: _____

SAMPLED & RELINQUISHED BY: 1.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____ Phone: _____

RELINQUISHED BY: 2.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RECEIVED BY: 1.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RECEIVED BY: 2.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3.

Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: Analytical Technologies, Inc.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.

OIL CONSERVATION DIVISION
RECEIVED

'95 AUG 17 AM 8 52

CC: ROGER ANDERSON
BILL OLSON
JERRY SEBASTON
MILEA

UIC: _____
OTHER: _____

OIL CONSERVATION DIVISION
COMPLAINT FORM

PERSON COMPLAINING:

NAME: Lee ROBERTS 325-087 (H)
ADDRESS: 807 RASH
HOBBS N.M. 88290

INFORMATION TAKEN BY:

TAKEN BY: WAYNE PRICE
DATE: 8/14/95 TIME: 2:30 PM
IN PERSON: ✓ BY PHONE: _____

PHONE: 393-9697

COMPLAINT: WATER FROM WELL IS CONTAMINATED - HMED REFILLS.
HM TO NMOCAD.

COMMENTS: WATER HAS HYDROCARBON IN IT. BAD SMELL & TASTE
WATER HAS BEEN GOOD IN PAST

- INVESTIGATION -

INVESTIGATOR: WAYNE PRICE - NMOCAD

DATE: 8/14/95

TIME: 3:15 PM

DESCRIBE INVESTIGATION AND FINDINGS: TOOK WATER SAMPLE AT
WATER WELL TANK -

RESULTS OF FIELD TEST - TDS ~ 1100 UMG/L,
OL ~ 75 PPM ; PH 7-8
BTEX (PID) MAX = 695 PPM (HEAD SPACE)
OLFACTORY - SLIGHT to MODERATE SMELL
VISUAL - CLEAR WATER

WATER APPEARS TO BE CONTAMINATED WITH VOLATILE HYDROCARB.
SOURCE UNKNOWN!

- FOLLOW-UP -

DATE: _____

TIME: _____

ACTION TAKEN: 5/1/92

*ATTACH ADDITIONAL SHEETS, IF NECESSARY

SERVATION DIVISION
RECEIVED

SEP 5 AM 8 52

TO: WILL OLSON
NMDCD

STATE OF
NEW MEXICO
OIL
CONSERVATION
DIVISION



MEMORANDUM OF MEETING OR CONVERSATION

Telephone Personal

Time
9:15 AM

Date
8/28/95

Originating Party

Other Parties

LEE ROBERTS - 807 RASH HILLS

Subject

WATER WELL

Discussion

MR ROBERTS REQUESTED NMDCD INVESTIGATE
SOURCE OF CONTAMINATION

MR. ROBERTS: INDICATED MORRIS SUCTION PUMP
CO. IS WASHING OFF PUMPS & WATER IS
DISCHARGING TO GROUND.

Conclusions or Agreements

DISTRICT SUPERVISOR ~~RE~~ RECOMMEND RUN NITRATES
DUE TO PREVIOUS NITRATE CONTAMINATION IN AREA!

Distribution CC: JERRY SEXTON
RASH ANDERSON

Signed

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

INSPECTION
CLASSIFICATION
FACILITY
HOURS
QUARTER
HOURS

Name WAYNE PRICE Date 8/27/95 Miles _____ District I
Time of Departure 7 AM Time of Return 4 PM Car No. G 02

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [Signature]

RE: LEE ROBERTS WATER WELL
307 RASH HOBBS N.M.

TOOK WATER SAMPLE - CITY
of HOBBS TO RUN NO₃ & PC⁰ -

<u>Mileage</u>	<u>Per Diem</u>	<u>Hours</u>
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

- H = Housekeeping
- P = Plugging
- C = Plugging Cleanup
- T = Well Test
- R = Repair/Workover
- F = Waterflow
- M = Mishap or Spill
- V = Water Contamination
- O = Other

INSPECTION CLASSIFICATION

- U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, Indry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R = Inspections relating to Reclamation Fund Activity
- O = Other - Inspections not related to injection or The Reclamation Fund
- E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- D = Drilling
- P = Production
- I = Injection
- C = Combined prod. inj. operations
- S = SWD
- U = Underground Storage
- G = General Operation
- F = Facility or location
- M = Meeting
- O = Other



CITY OF HOBBS
300 N. Turner
Hobbs, NM 88240
Lab # 9411

MICROBIOLOGICAL WATER REPORT

Date Received _____

Time Test Began 8:30 AM Date 3/29/95

Time Received _____

Time Test Ended _____ Date _____

Received by _____

SAMPLE IDENTIFICATION			TESTING REQUIRED	
Quality Control No. <u>35 N 27</u>	County <u>LEA</u>		<input type="checkbox"/> MF-Total Coliform <input type="checkbox"/> MMO MUG-Total Coliform	
Water Supply System Name <u>LEE SUBURBS 207 WASH HOBBS</u>			WSS Code No.	
COLLECTION INFORMATION			LABORATORY TEST RESULTS	
Date Collected Mo. Day Yr. <u>3 29 95</u>	Time Collected <u>11:00 AM</u>	Collected By <u>WAYNE PRICE</u>	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	Total Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present
Collection Point <u>WATER WELL SIPPET</u>			Fecal Coliforms / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present	E. coli / 100 ml <input type="checkbox"/> Absent <input type="checkbox"/> Present
TYPE OF SYSTEM			INVALID SAMPLE	
Check One <input type="checkbox"/> Public Non-Community <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Public Community <input checked="" type="checkbox"/> Private Well Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Residual: _____ mg / l (required for fecal test)			If one of the following is checked, resample. <input type="checkbox"/> TNTC Non-Coliforms <input type="checkbox"/> Confluent Growth	
REASON FOR SAMPLING			REJECTED SAMPLE	
Check One <input type="checkbox"/> Routine Sample <input checked="" type="checkbox"/> Special Sample <input type="checkbox"/> Check Sample <input type="checkbox"/> Monitor Sample			If one of the following is checked, resample. <input type="checkbox"/> Sample too old. <input type="checkbox"/> Temperature violation. (above 10° C) <input type="checkbox"/> Form incomplete. See circled item. <input type="checkbox"/> Date discrepancy. <input type="checkbox"/> Leaking Sample. <input type="checkbox"/> Quantity insufficient for testing. <input type="checkbox"/> Quantity too great to permit agitation. <input type="checkbox"/> Turbid sample. <input type="checkbox"/> Other _____	
			FOR INTERPRETATION OF RESULTS CALL THE NEW MEXICO ENVIRONMENT DEPARTMENT AT 393-4302.	

NOTE: FLAMED RIN - A SIPPET / USED GLOVES / ICE SAMPLE

SEND REPORT AND BILL TO THE FOLLOWING:

NAME MR WAYNE PRICE

COMPANY NM OIL CONSERVATION DIV

ADDRESS 1000 W BRADWAY

PHONE 505-393-6161

Bacteriologist _____

A FEE OF \$10.00 PLUS TAX IS CHARGED FOR EACH TEST.

OFFICE USE ONLY

ACCT. # _____