GW - 276

GENERAL CORRESPONDENCE

YEAR(S):

1985-1984

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO
ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

September 10, 1985

Paul Dempsey, Manager
Hydrostatic Pipe Service, Inc.
PO Box 2428
Hobbs, NM 88240

Dear Mr. Dempsey:

Thank you for your letter of September 3, 1985, in which you informed me that "Hydro-Test" has completed tying into the City of Hobbs sewer system. This letter will serve as formal notice that discharge plan DP-389, for disposal of the effluent from Hydro-Test's oilfield service truck-washing operation by way of a septic tank and seepage pit, is no longer in effect. Instead, you will be covered by the discharge plan for the City of Hobbs Sewage Treatment Plant.

As you requested during our meeting on August 22nd, I am sending you copies of the final analyses of the wastewater which used to be discharged to the seepage pit at Hydro-Test.

Sincerely,

Paige Grant Morgan
Water Resource Specialist

PGM:pgm

cc: John Guinn, EID District IV Manager
Roelf Ruffner, EID Field Office, Hobbs
Karl Souder, EID Ground Water Section

85-0352 -C

ENVIRONMENT

Paige Morgan - EID Ground
984-0020 ext 206 | Water Section
PO Box 968
Santa Fe NM 87504-0968

LABORATORY 4/20/85

LAB NUMBER OR 352 A,B.

SLD Users Code No. 59500

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☐ Soil ☐ Other washwater from truck wash for

Water Supply and/or Code No. trucks used in oilfield testing

City & County Hobbs - Lea County

Collected (date & time) 4/16/85 2:30 pm By (name) Steve Sims

pH= — ; Conductivity= — umho/cm at — °C; Chlorine Residual= NA

Dissolved Oxygen= — mg/l; Alkalinity= — ; Flow Rate= bailed

Sampling Location, Methods & Remarks (i.e. odors etc.)

Sampled from riser in sand trap in septic system. Sand trap is first stage in filtering fluids before going to seepage pit.

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed ______

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed ______

Method of Shipment to Laboratory ______.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen ______; duplicate ______; triplicate ______; blank(s) ______,
and ______ amber glass jug(s) with teflon-lined cap(s) identified as ______,
and ______ other container(s) (describe) ______ identified as ______.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

RECEIVED SEP 5 1985

I (we) certify that this sample was transferred from ______ to ______ at (location) ______ on (date & time) ______ and that the statements in this block are correct.

Disposition of Sample GROUND WATER/HAZARDOUS WASTE BUREAU. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) ______ ______

I (we) certify that this sample was transferred from ______ to ______ at (location) ______ on (date & time) ______ and that the statements in this block are correct.

Disposition of Sample ______. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) ______ ______

ANALYSES REQUESTED

LAB. No.: ORG- 352

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

GCMS

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			**SPECIFIC COMPOUNDS**

REMARKS: Trucks are [illegible] to be steam-cleaned. expect to see crude oil as well as engine grease + oil. [illegible] a solvent called "[illegible]" [illegible] in process.

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
halogenated purgeables	none detected		
toluene	220		
ethylbenzene	56		
p-xylene	110		
m-xylene	320		
o-xylene	250		
		* DETECTION LIMIT	35 ugm/l

REMARKS: Nineteen other compounds detected by aromatic purgeable screen that were not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes___ NO X. Seal(s) broken by:________ date:______

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7 May 85. Analyst's signature: [signature]

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: [signature] Meyerhe[illegible]

REPORT TO: Environ 85-035-B nent Division
Health [illegible] Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Jaime Morgan
BUREAU: [illegible]

LABORATORY 4/19/85
LAB NUMBER OR 351 A

SLD Users Code No. 59500

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☐ Soil ☐ Other Washwater from truck wash for trucks used in oilfield testing

Water Supply and/or Code No.

City & County Hobbs - Lea County

Collected (date & time) 4/10/85 2:30 pm By (name) Steve Sames

pH= -; Conductivity= - umho/cm at °C; Chlorine Residual=

Dissolved Oxygen= mg/l; Alkalinity= ; Flow Rate=

Sampling Location, Methods & Remarks (i.e. odors etc.)

Sampled from riser on sand trap in septic system - sand trap is first stage in filtering fluids before going to seepage pit.

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed

Method of Shipment to Laboratory

THIS FORM ACCOMPANIES 3 septum vials with teflon-lined discs identified as:
specimen ✓; duplicate ; triplicate ; blank(s) ,
and one amber glass jug(s) with teflon-lined cap(s) identified as 550410 1435 ,
and ____ other container(s) (describe) identified as .
Containers are marked as follows to indicate preservation (circle):
NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from to
at (location) on
(date & time) and that the statements in this block are correct.
Disposition of Sample . Seal(s) Intact: Yes ☐ No ☐ .
Signature(s)

I (we) certify that this sample was transferred from to
at (location) on
(date & time) and that the statements in this block are correct.
Disposition of Sample . Seal(s) Intact: Yes ☐ No ☐ .
Signature(s)

RECEIVED
SEP 5 1985
GROUND WATER/HAZARDOUS WASTE BUREAU

ANALYSES REQUESTED LAB. NO. 351

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
				X	POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS: Trucks are steam-cleaned. Expect to see crude oil [illegible] [illegible] + oil, [illegible] [illegible] solvent called "Varsol".

ANALYTICAL RESULTS

COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
		* DETECTION LIMIT	

REMARKS: Unable to determine PNA's due to complex hydrocarbon mixture

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s) Broken by ______ date ______

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis ______. Analysts signature ______

Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: R Meyerhen

PHONE (505) 393-7508

HYDROSTATIC PIPE SERVICE, INC.
HOBBS, NEW MEXICO

P.O. BOX 2428

September 3, 1985

RECEIVED

SEP 6 1985

GROUND WATER/HAZARDOUS WASTE BUREAU

Ms. Paige Morgan
Environmental Improvement Division
P. O. Box 968
Santa Fe, New Mexico 87504-0968

Re: Hydrostatic Pipe Service, Inc.'s Waste Disposal System

Dear Ms. Morgan:

We are hereby notifying you that as of Friday, August 30, 1985, Hydrostatic Pipe Service,Inc. has completed tieing into the Hobbs City Sewer System.

If you have any questions or need further information concerning this please let us know.

Thank you.

Sincerely,

Paul Dempsey
Manager

PD/eb

cc: file

. of mples	Ion
	Na
	K
	Ca
	Mg
	Cl
	HCO3
	CO3
	SO4
	TDS
	NO3+ NO2
	NH3
	kjeld N
	As
	Ba
	Cd
	CN
	Cr
	F
	Pb
	Hg
	Se
	Ag
	U
	V
	Ra 226
	Ra 228
	Cu
	Fe
	Mn
	Phenols
	Zn
	Al
	B
	Co
	Mo
	Ni
	pH
	Conduct.

FIELD TRIP REPORT
GROUND WATER SECTION

SLD USER CODES — County Lea

Ground Water: 59300
NO_3, HC, & Toxics: 59600
UIC: 59500

FACILITY VISITED
Name of Facility: Hydrostatic Pipe Services
Location: Hobbs

Discharge Plan Number: DP- 389
Type of Operation: pressure-testing oilfield tubular goods.

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT
EID Inspector(s): Paige Morgan & Steve Sanes
Date of Inspection or Visit: 8/22/85
Discharger's Representative Present During EID Visit:
Name: Paul Dempsey
Title or Position: Manager
Purpose of Visit:
a. Evaluation of Proposed Discharge Plan _____
b. Compliance Inspection of Discharge with Approved Plan ✓
c. Other (specify) _____
Inspection Activities During Field Visit:
a. Inspection of Facilities or Construction (specify)
Witnessed excavation for lines to connect to city sewer line.

b. Sampling of Effluents (give sampling locations)

c. Sampling of Ground Water (give names or locations of wells)

d. Evaluation of geology, soils, water levels or other physical characteristics of the location (specify)
Massive indurated caliche at ± 4' depth in trench.

e. Other (specify)

Observations and Information Obtained during the Visit:

ACTION REQUIRED
Wait to receive letter from Dempsey informing us that the connection to city sewer has been made. Write him giving formal notification that DP has been terminated.

EID BUCKSLIP

CHECK ONE:

- [X] LETTER TO Hydrostatic Pipe Service
  for Denise Fort's signature by Perkins
- [ ] MEMO TO _____
- [ ] PRESS RELEASE
- [ ] OTHER

SUBJECT: Disposal

DRAFTED BY: Jorge Morgan _____ (Date)

CONCURRENCES:

NAME:		INITIAL	DATE REC'D	DATE APPROVED
Maxine Goad	Sect. Mgr.	MSG	6/24/85	6/24/85
Richard Perkins	Bur. Chief	RP	____	"
~~Richard Holland~~	Dep. Dir.	____	____	____
~~Denise Fort~~	Director	____	____	____

FINAL DECISION NEEDED BY 6/26/85 (date) BECAUSE To avoid redrafting the letter

COMMENTS BY DRAFTER OR REVIEWER(S):

Hydro. Pipe Svc. had a couple of rat-holes in which they disposed of oily effluent from washing their oil-field service trucks. We required that they cease to use them. They plugged the holes without our approval. We insisted that they have a discharge plan for the disposal (at the end of 120 days: 6/20/85) of the same effluent that used to go to the rat-holes, which now goes to a seepage pit. We ultimately wound up drafting a discharge plan for them. They concurred with it. They now have plans (we heard from the Hobbs Director of Utilities) to hook up to the city sewer, but this discharge plan should cover them in the interim.

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 26, 1985

Darrell Deming, President
Hydrostatic Pipe Service, Inc. ("Hydro-Test")
PO Box 2428
Hobbs, NM 88240

Dear Mr. Deming:

The discharge plan (DP-389) for the disposal of truck-washing effluent at the Hydrostatic Pipe Service maintenance yard located in the SW/4 SW/4 SW/4 Section 32, T18S R38E in Lea County, New Mexico, is hereby approved. The approved discharge plan consists of the plan dated May 3, 1985 and the materials dated May 31, 1985 submitted as supplements to the discharge plan, as well as analyses of samples of the effluent in your disposal system collected by EID staff.

The discharge plan was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission regulations. It is approved pursuant to Section 3-109. Please note subsections 3-109.E. and 3-109.F., which provide for amendment of the plan as necessary. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

Monitoring and reporting requirements under this discharge plan approval shall be as specified in the discharge plan and supplements thereto. Unless this discharge plan is voided beforehand (see below), EID staff will collect a second sample of your truck wash effluent on or before October 16, 1985, as specified in your approved discharge plan, to establish the parameters which must be monitored. Your monitoring and reporting requirements are summarized on the attached sheet. Any inadvertent omissions from this summary of a discharge plan monitoring or reporting requirement shall not relieve you of responsibility for compliance with that requirement.

Please note that Section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." If you connect to the Hobbs city sewer system so that all effluent generated at Hydrostatic Testing Service facilities is discharged to the city sewer, please inform

this office so that this discharge plan approval may be voided. The City of Hobbs Sewage Treatment plant operates under a discharge plan, so it is unnecessary for dischargers to the sewer to carry individual discharge plans.

Pursuant to subsection 3-109.G.4., this plan approval is for a period of five years. This approval will expire on June 26, 1990 (if not previously voided as discussed above); you should submit an application for new approval in ample time before that date.

Sincerely,

(for)

Denise Fort, Director

DF:PGM:pgm

cc: John Guinn, EID District IV Manager

JUNE 11, 1985

TO BE PUBLISHED ON OR BEFORE JUNE 19, 1985

PUBLIC NOTICE
NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plans have been submitted for approval to the Director of the New Mexico Environmental Improvement Division, P.O. Box 968, Crown Building, Santa Fe, New Mexico 87504-0968; telephone (505) 984-0020.

(DP-179) ALBUQUERQUE UTILITIES CORPORATION, 3900 Southern Boulevard, Rio Rancho, New Mexico 87124, proposes a modification and renewal of its approved discharge plan, DP-179. The discharge will be increased to 225,000 gallons per day of treated sewage (90% residential, 10% low grade industrial) from a newly constructed extended aeration, activated sludge package plant. The two existing lined oxidation ponds will be converted to evaporation ponds. The effluent will be used to sprinkler irrigate adjacent undeveloped land in Sections 28 and 29, Township 12 North, Range 3 East (projected), Sandoval County, New Mexico. The depth to ground water is approximately 200 feet with a total dissolved solids content of approximately 500 mg/l.

(DP-389) HYDROSTATIC PIPE SERVICE, INC. ("HYDRO-TEST"), Darrell Deming, President, 3030 West Marland, Hobbs, New Mexico 88240, has submitted a discharge plan for the disposal of some 500 gallons per day of truck-washing effluent at their maintenance yard in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 32, T18S R38E in Lea County, New Mexico. The trucks, which are used for pressure-testing oilfield tubular goods, are steam-cleaned and the effluent from this process goes through a sand trap and grease trap to a seepage pit. The effluent from a bathroom and "coffee bar" also enters the seepage pit via a septic tank. Ground water most likely to be affected by this discharge is at a depth of 35 feet (1954 data) and has a total dissolved solids content of 1310 mg/l.

(DP-388) PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM), P.O. Box 1268, Santa Fe, New Mexico 87502, proposes to discharge wastewater from a service center to be located in the SW$\frac{1}{4}$ of Section 24, TI6N, R8E, Santa Fe County, New Mexico between I-25 and State Road 14. Approximately 4000 gallons per day of domestic sewage and vehicle wash water will be discharged to septic tank-leachfield systems. The ground water most likely to be affected is at a depth of approximately 200 feet with a total dissolved solids content of approximately 174 mg/l.

Any interested person may obtain further information from the Ground Water Section, Ground Water/Hazardous Waste Bureau, EID, and may submit written comments to the Director of the EID at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of EID will allow thirty (30) days after the date of publication of this Notice during which comments may be submitted to her and a public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why the hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

June 5, 1985

Darrell Deming, President
Hydrostatic Testing Service, Inc. ("Hydro-Test")
P.O. Box 2428
Hobbs, New Mexico 88240

Dear Mr. Deming:

Enclosed please find the first results we have received from the analysis of the samples collected from your waste disposal system on April 16, 1985. The attached results are from an "ICAP scan" for heavy metals in your discharge. None of the parameters reported exceed New Mexico standards for ground water quality. We are still waiting for the results of analyses for major cations and anions and for organic species.

Sincerely,

Paige Grant Morgan
Water Resource Specialist
Ground Water Section

PGM/mp

cc: John Guinn, EID District IV Manager
Roelf Ruffner, EID Hobbs Field Office

REPORT TO: *Peige Morgan*
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER *HM-721*
DATE RECEIVED *4/19/85*
DATE REPORTED *5/31/85* Initials
SLD USER CODE NUMBER *57500*

~~Well~~ *Septic System* Location Address *Hydro-Test; 3030 West Marland, Hobbs*

Point of Collection *first riser on septic system*

~~Well~~ *S.S.* Owner/User *Darrell Deming*

Number of People Drinking Water from Well *NA*

Collected *4/16/85* (Date) *2:30 p.m.* (Time) By *Steve Sams* (Name) *EID* (Agency)

Well Depth *NA*

pH *—*

Water Level

Conductivity (Uncorrected) *—* umho/cm

Taste? Odor? Color? Collectors Remarks
strong hydrocarbon odor, black fluid

Temperature *—* ^oC

Conductivity at 25^oC *—* umho/cm

PROJECT:

From ____, A-H_2SO_4 Sample:

- ☐ Nitrate-N+ Nitrite-N ____ mg/l ____
- ☐ Ammonia-N ____ mg/l ____
- ☐ Chemical oxygen demand ____ mg/l ____
- ☐ ____ ____ ____

From ____, NA Sample: Date Analyzed

- ☐ Calcium ____ mg/l ____
- ☐ Potassium ____ mg/l ____
- ☐ Magnesium ____ mg/l ____
- ☐ Sodium ____ mg/l ____
- ☐ Bicarbonate ____ mg/l ____
- ☐ Chloride ____ mg/l ____
- ☐ Sulfate ____ mg/l ____
- ☐ Total Solids ____ mg/l ____
- ☐ ____ ____

RECEIVED
JUL 3 1985
LIQUID WASTE & GROUND WATER SURVEILLANCE

From *F*, A-HNO_3 Sample:

- ☒ ICAP Scan *5504161432*
- ☐ Metals by AA (Specify)

This form accompanies ____ sample(s) marked as follows to indicate field treatment:

NF:	Whole sample (no filtration)
F:	Filtered in field with 0.45u membrane filter
A-H_2SO_4:	Acidified with 2 ml conc H_2SO_4/l
A-HNO_3:	Acidified with 5ml conc HNO_3/l
NA:	No acid added

ICAP -SCREEN

Lab Number: HM 721

Sample Code: Hydro Test - Hobbs

Date Submitted: 4/19/85

Date Reported: 5/31/85

By: Steve Sores

By: J. Reilly

Determination	Concentration (µg/ml)
Aluminum	.25
Barium	.19
Beryllium	<.10
Boron	.51
Cadmium	<.10
Calcium	140.
Chromium	<.10
Cobalt	<.10
Copper	<.10
Iron	.77
Lead	<.10
Magnesium	56.
Manganese	.31
Molybdenum	<.10
Nickel	<.10
Silicon	27.
Silver	<.10
Strontium	1.1
Tin	<.10
Vanadium	<.10
Yttrium	<.10
Zinc	.56

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

May 31, 1985

Darrell Deming, President
Hydrostatic Testing Service, Inc. ("Hydro-Test")
PO Box 2428
Hobbs, NM 88240

Dear Mr. Deming:

Thank you for filing your completed discharge plan application with this office. As required by law, we will soon put out a public notice of having received your application and then allow 30 days to receive public comment, if any, on the subject of your waste disposal system. In the meantime, I need to clarify a couple of points in the materials you have submitted:

1. You report that approximately 2/3 of the water pumped to your well is not returned to your waste disposal system. Where is this fluid disposed of?

2. Steve Sares, EID Ground Water Section, collected several samples from your sand trap riser on April 16, 1984. When was the last time before that date that you had the sand and grease traps pumped out?

3. Please be aware that your discharge plan stipulates that if the results of the 4/16/85 sample and one additional sample from your sand or grease trap show that any NM ground water quality standard is exceeded by more than 25 percent, you will be required to install a monitor well. Subsequently, if the parameters which were exceeded in the sand or grease trap are also exceeded in the monitor well, you will be required to redesign your waste disposal system to prevent ground water contamination. Such a redesign will require that you submit to this office an amendment to your discharge plan .

I will provide you with the results of all samples collected by EID at your facility, as soon as they are available to us. Similarly, we would appreciate receiving copies of any analyses that you may have conducted independently.

Again, thank you for your compliance with the ground water protection regulations of the state of New Mexico.

Sincerely,

Paige Grant Morgan
Water Resource Specialist

PGM:pgm

MSL

cc: John Guinn, EID District IV Manager

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

DISCHARGE PLAN APPLICATION - Part A

Name of discharger or person legally responsible for discharge:

Darrell Deming

RECEIVED

MAY 22 1985

HAZARDOUS WASTE SECTION

Address: Hydrostatic Pipe Service, Inc.

P.O. Box 2428

Hobbs, NM 88240

Telephone: 397-1234

Local representative or contact person if different from above:

Name: Paul Dempsey

Address: same as above

Telephone:

General Information Required of All Discharge Plans

1. Location of Discharge

County Lea, T 18S, R 38E, Sec. 32, SW ¼ of SW ¼
(use state coordinates or latitude/longitude on unsurveyed land)

NOTE: A topographic map or detailed aerial photograph should be used in conjunction with a written description to depict the locations of the discharge and other relevant objects.

2. Type of operation, facility or development. Pressure-testing of oil field tubular goods. Washing of Hydro Pipe Svc. pressure trucks.

3. The means of discharge (To a lagoon, flowing stream, watercourse, arroyo, cropland, septic tank-leach field, other - specify.
SEE ATTACHED

4. Quantity

Total volume in gallons per day (gpd), of each discharge or combination of discharges. 500 gpd. Approximate. See Attached

If more than one discharge stream and/or discharge point, give gpd for each.
SEE ATTACHED

5. Quality

Concentrations, in milligrams per liter (mg/l), of any contaminants listed in Section 3-103, total nitrogen, and any toxic pollutants as defined in Subsection 1-101.U.U. of the regulations that may be present in the discharge.

Contaminant		Concentration (mg/l)
	To be determined on the basis of sampling by EID (see #13)	

6. Name, description, and location of any bodies of water or watercourses and ground water discharge sites (wells, seeps & springs) within one mile of the outside perimeter of the discharge site. no seeps or springs or surface water; well list attached.

7. Depth to and total dissolved solids (TDS) concentration of the ground water most likely to be affected by the discharge.

Depth 34 (in 1954) feet. TDS 1310 mg/l.

Source of information: Depth from State Engineer well record for one of two wells drilled on Hydro Test's property (SEO record #L-2555). TDS from State lab analysis of sample collected from the "old well".

8. Flooding potential of the discharge site. SEE ATTACHED.

Flooding protection measures (berms, channels, other, if applicable):

9. Describe the monitoring system proposed in the plan in which adequate provision for sampling of effluent and adequate flow monitoring is included, so that the amount(s) being discharged onto or below the surface of the ground can be determined.

SEE ATTACHED

10. Location(s) of existing or proposed wells to be used for monitoring ground water quality. Specify below or locate on map.

Township	Range	Section	¼ of ¼ of ¼
SEE #13			

11. Geologic description of discharge site. If drillers log(s) are available, please attach.

Soil (sand, clay, loam, caliche, etc.) landfill over caliche SEE ATTACHED

Name of aquifer Ogalala

Aquifer material (e.g. alluvium, sandstone, volcanic, etc.) sand/ss

Depth to rock at base of alluvium (if available) _____

12. Copies of plans and specifications for sewerage and flow systems, including materials specifications provided by the manufacturer, must be submitted to the EID District Engineer and to the Ground Water Section of the EID Ground Water and Hazardous Waste Bureau.

13. What conditions naturally exist, or what actions will the discharger take to assure that New Mexico ground water standards are not going to be exceeded at any place of present or foreseeable future use as a result of the operation? Use separate attachments when necessary. SEE ATTACHED

a. Specific hydrologic, geologic and/or agricultural information?

b. Minimizing discharge (e.g. synthetically lined ponds with leak detection system)?

c. Ground water monitoring program with contingency plan should ground water standards be threatened?

NOTE: To demonstrate that ground water standards are not going to be violated, additional information may be requested of the discharger.

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete and accurate.

Darrell C. Deming — 5/3/85

Signature — Date

Darrell Deming — President

Printed Name of Person Signing — Title

GENERAL INFORMATION

OK #3. The information on your septic system varies:

a) In Ann Claassen's 9/4/84 memo describing EID Hazardous Waste Section's investigation at Hydro-Test, she cites the installer, Trusty's Sales and Construction, reporting that "influent to the system goes first into an 1100 gallon grease trap, then an 1100 gallon sand trap, then 1100 gallon septic tank, and finally into a seepage pit that is ~~20' x 20' x 10'~~" - 20x20x12' - See Attached

b) The EID Liquid Waste permit for the system indicates that the effluent from the bathroon goes to a septic tank and then straight to the seepage pit, while effluent from the truck wash goes through a sand trap, then a grease and oil trap, then into a "Large cavity drain field" with 1500' of bottom area and 12' sides.

Please describe the actual system. - See Attached.

#4. The Liquid Waste permit states that system design flow is 500 gallons per day (gpd). However, State Engineer records for average water use from the well between 1979 and 1983 gives a figure of 1.83 acre-feet per year = 1634 gallon per day. What is the actual flow to the system? Attached. Reports

OK #8. You informed Ann Claassen that the area on which the north wing is built used to be boggy before you filled the site for construction. Was this due to storm runoff ponding in the area? If so, has there been any construction or change in the topography to divert future runoff that might affect your property? Attached.

#9. Flow monitoring: please submit copies of the meter readings that you send to the State Engineer on a quarterly basis, due on or before the 10th of January, April, July and October. If there is a substantial fraction of the water pumped from the well that does not eventually return to the septic system, please explain what happens to that stream and approximately what volume it constitutes. ATTACHed

Sampling of effluent: samples will be bailed from the second riser (is this the sand trap or grease trap?). A monitor well may be required, depending on the results of two samples from the second riser (see #13).

#10. To be determined (if any - see #13).

OK #12. I will forward a copy of your Liquid Waste Permit with the sketch of your septic system to the EID District Engineer in Roswell. He will also receive a copy of this discharge plan application with attachments, so that he is aware of the questions we have about dimensions and design of the system.

CORRECTED SKETCH ATTACHED

GENERAL INFORMATION - Continued

#13. The EID will collect two samples from the second riser over a period of six months. The time since the last pump-out of the system will be noted when the sample is collected. The samples will be analzyed for major cations and anions, TDS, nitrate as nitrogen, total nitrogen, the metals that are detectable in an ICAP scan (see attached list), and for purgeable and extractable hydrocarbons.

If no parameter in these samples is in excess of the standards listed in the Water Quality Control Commission (WQCC) regulations, Sections 3-103 and 1-101.UU, then the information in the discharge plan application (once it is completed and approved) will constitute the discharge plan.

If any parameter in these samples exceeds the standard specified for that parameter in the regulations by more than 25 percent in either sample, a monitoring well will be constructed approximately 20 feet downgradient of the seepage pit and perforated in the top ten feet of the first saturated zone that is encountered. This well may be constructed of 2" PVC unless the parameters of concern (those exceeding the standards at the second riser) include organic chemicals. In that case, the well shall be constructed of steel. This well shall be sampled by Hydro-Test at intervals to be determined at the time of construction for those parameters that exceeded the standards at the second riser.

If these parameters exceed standards at the monitoring well (except for those parameters that reflect the sewage component of the discharge). Hydro-Test will take steps to reduce the concentrations of contaminants in the discharge to meet the WQCC standards.

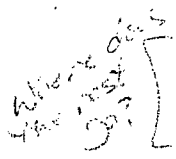
GENERAL INFORMATION ANSWERS

#3 Influent to the system goes first into a 1100 gallon sand trap, then to a 1100 gallon grease trap and then into a seepage pit. The rear bathroom and coffee bar goes into a septic tank first and then to the seepage pit. See attached corrected sketch.

#4 Approximate discharge is 500 gpd. See #9

#8 In regard to the North Wing; at one time this area had water standing after rains. However, this was previous to the area being built up with fill. Also the West County Road to the west of our building was built up and a culvert installed underneath the Hobbs Carlsbad Highway to the west of it. Excess water drains through this culvert to the south. See attached corrected sketch.

#9 Copies of meter readings submitted to the N.M State Engineer's office are attached. There is a substantial amount of water pumped from this well that does not return to the septic system. We have seven test trucks with a capacity of 15 barrels each that use water from this well and does not return, our front bathroom and coffee bar does not go into this septic system, and also a mobile home with yard. Our estimated return is 500 gpd.



OK #12 See corrected sketch of septic system.

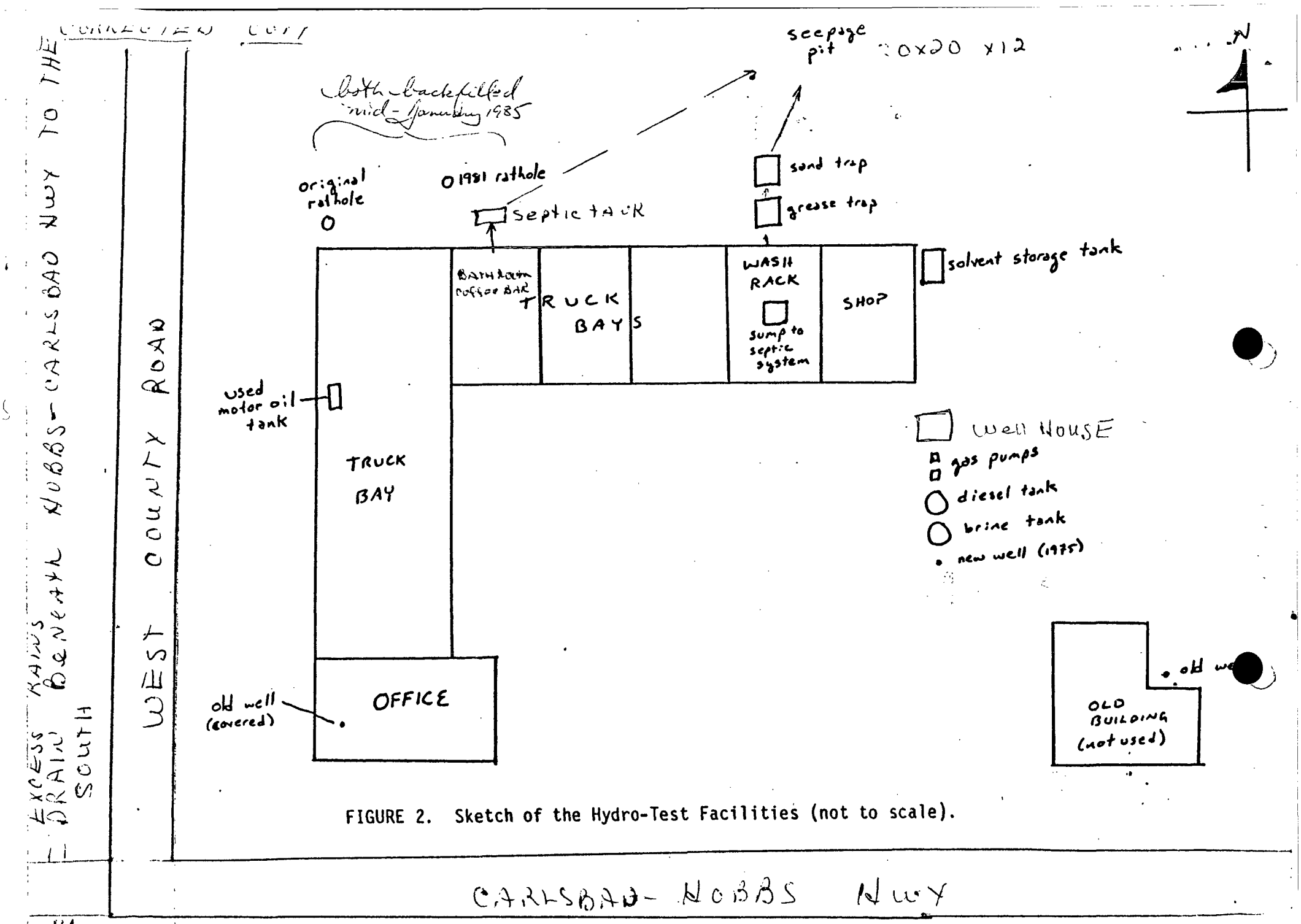


FIGURE 2. Sketch of the Hydro-Test Facilities (not to scale).

No. of Samples	Ion
/	Na
/	K
/	Ca
/	Mg
/	Cl
/	HCO3
/	CO3
/	SO4
/	TDS
////////	////////////
/	NO3+ NO2
/	NH3
/	kjeld N
////////	////////////
/	As
/	Ba
/	Cd
/	CN
/	Cr
/	F
/	Pb
/	Hg
/	Se
/	Ag
~~/~~	~~U~~
/	V
	Ra 226
	Ra 228
////////	////////////
/	Cu
/	Fe
/	Mn
	Phenols
/	Zn
////////	////////////
/	Al
/	B
/	Co
/	Mo
/	Ni
////////	////////////
	pH
	Conduct.
/	PURG. ORG.
/	EXT. ORG.

FIELD TRIP REPORT
GROUND WATER SECTION

SLD USER CODES

County LEA

Ground Water: 59300
NO_3, HC, & Toxics: 59600
UIC: 59500

FACILITY VISITED

Name of Facility: HYDRO-TEST
Location: MARLAND AVE, HOBBS

Discharge Plan Number: DP-
Type of Operation: OIL FIELD SERVICE

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT

EID Inspector(s): STEVE SARES / GREG BAKER
Date of Inspection or Visit: 4/16/85
Discharger's Representative Present During EID Visit:
Name: PAUL DEMPSEY
Title or Position: MANAGER
Purpose of Visit:
(a) Evaluation of Proposed Discharge Plan _____
b. Compliance Inspection of Discharge with Approved Plan _____
c. Other (specify) _____
Inspection Activities During Field Visit:
a. Inspection of Facilities or Construction (specify)
INSPECTED SEPTIC SYSTEM, SAND TRAP, OIL TRAP.

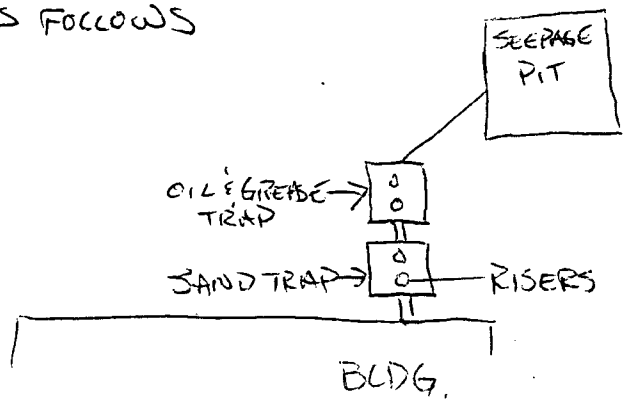
b. Sampling of Effluents (give sampling locations)
SAMPLED EFFLUENT FROM SAND TRAP.

c. Sampling of Ground Water (give names or locations of wells)

d. Evaluation of geology, soils, water levels or other physical characteristics of the location (specify)

e. Other (specify)

Observations and Information Obtained during the Visit:
SYSTEM IS SET UP AS FOLLOWS



ACTION REQUIRED

REPORT TO: Environ[redacted]ment Division
Health & [redacted] Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Sabra Morgan
BUREAU: GW/SHW

LABORATORY 4/19/85
LAB NUMBER OR 351 A

SLD Users Code No. 59500

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☐ Soil ☐ Other Washwater from truck wash for trucks used in oilfield testing

Water Supply and/or Code No. _____

City & County Hobbs - Lea County

Collected (date & time) 4/10/85 2:30 pm By (name) Steve Sams

pH= – ; Conductivity= – umho/cm at _____ °C; Chlorine Residual= _____

Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____

Sampling Location, Methods & Remarks (i.e. odors etc.)

Sampled from riser on sand trap in septic system - sand trap is first stage in filtering fluids before going to seepage pit.

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed _____

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory _____

THIS FORM ACCOMPANIES 3 septum vials with teflon-lined discs identified as:
specimen ✓; duplicate _____; triplicate _____; blank(s) _____,
and one amber glass jug(s) with teflon-lined cap(s) identified as 8504161433,
and _____ other container(s) (describe) _____ identified as _____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐

Signature(s) _____

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

RECEIVED
SEP 5 1985
GROUND WATER/HAZARDOUS WASTE BUREAU

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐

Signature(s) _____

ANALYSES REQUESTED LAB. NO. 351

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN
		ALIPHATIC HYDROCARBON SCREEN
		AROMATIC HYDROCARBON SCREEN
		HALOGENATED HYDROCARBON SCREEN
		GAS CHROMATOGRAPH/MASS SPECTROMETER
		SPECIFIC COMPOUNDS

QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBONS
		CHLORINATED HYDROCARBON PESTICIDES
		CHLOROPHENOXY ACID HERBICIDES
		HYDROCARBON FUEL SCREEN
		ORGANOPHOSPHATE PESTICIDES
		POLYCHLORINATED BIPHENYLS (PCB's)
	X	POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS

REMARKS: Trucks are steam-cleaned. expect to see crude oil, engine grease & oil, possibly a solvent called "Varsol".

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
		* DETECTION LIMIT	

REMARKS: Unable to determine PNA's due to complex hydrocarbon mixture

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s) Broken by _____ date _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis _____. Analysts signature _____

Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: [illegible]

85-0352-C

Patsy Morgan - EID Ground
984-0020 ext 206 Water Section
PO Box 968
Santa Fe NM 87504-0968

LABORATORY 4/20/85

LAB NUMBER OR 352 A, B.

SLD Users Code No. 59500

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☐ Soil ☐ Other washwater from truck wash for trucks used in oilfield testing

Water Supply and/or Code No. —

City & County Hobbs - Lea County

Collected (date & time) 4/10/85 2:30pm By (name) Steve Sanes

pH= —; Conductivity= — umho/cm at — °C; Chlorine Residual= NA

Dissolved Oxygen= — mg/l; Alkalinity= —; Flow Rate= bailed

Sampling Location, Methods & Remarks (i.e. odors etc.)
Sampled from riser on sand trap in septic system. Sand trap is first stage in filtering fluids before going to seepage pit.

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed _____

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory _____.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen _____; duplicate _____; triplicate _____; blank(s) _____,
and ____ amber glass jug(s) with teflon-lined cap(s) identified as _____,
and ____ other container(s) (describe) _____ identified as _____.

Containers are marked as follows to indicate preservation (circle):
NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

RECEIVED
SEP 5 1985
GROUND WATER BUREAU

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample ~~WATER/HAZARDOUS WASTE~~. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

ANALYSES REQUESTED

LAB. No.: ORG- 352

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIVE	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
	X	HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

or GC/MS

REMARKS: Trucks are resorted to be steam-cleaned; expect to see crude oil as well as engine grease & oil. Possibly a solvent called "Varsol" still used in process.

ANALYTICAL RESULTS

COMPOUND	[PPB]	COMPOUND	[PPB]
Halogenated purgeables	none detected		
Toluene	230		
ethylbenzene	80		
p-Xylene	110		
m-Xylene	320		
o-Xylene	250		
		* DETECTION LIMIT	35 ugm/l

REMARKS: Nineteen other compounds detected by aromatic purgeable screen that were not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ___ NO X. Seal(s) broken by: _____ date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7 May 85. Analyst's signature: [signature]

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: [signature]

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

April 11, 1985

Darrell Deming
Hydrostatic Pipe Service, Inc.
P.O. Box 2428
Hobbs, NM 88240

RE: Discharge plan for industrial liquid waste disposal system.

Dear Mr. Deming:

As I discussed with Paul Dempsey of your firm on April 1st, I have used the materials in the file on your facility to fill out a discharge plan application form (enclosed). In doing so, there were some questions on the form which I could not answer for you: those questions are listed in an attachment to the enclosed discharge plan application form.

Please answer these questions, look over the rest of the form to see if you consider the information I have entered for you to be accurate, sign and date the form and return it to me as soon as possible (in recognition of your June 20th deadline, as per Denise Fort's letter to you of February 20, 1985). I have enclosed a blank discharge plan application form, should you disagree substantially with my attempt at preparing your discharge plan and wish to redo it entirely.

I discussed the basics of this proposed discharge plan by phone with Paul Dempsey on April 10th. He agreed that Ground Water staff members Steve Sares and Greg Baker would be welcome to collect samples from the second riser in the septic system early in the week of April 15-19.

This sampling will constitute the first of two samples to be collected over a six-month period, as discussed in the proposed discharge plan under question #13.

I hope you will find the enclosed materials useful to the end of obtaining an approvable discharge plan.

Sincerely,

Paige Grant Morgan

Paige Grant Morgan
Water Resource Specialist
Ground Water Section

cc: John Guinn, EID Dist. IV, Roswell

PGM:jba

Enclosures

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Guidelines for the Preparation of Ground Water Discharge Plans

May 1984

Introduction

Sections 3-104 and 3-106 of the New Mexico Water Quality Control Commission (WQCC) Regulations stipulate that, unless otherwise provided for by the regulations, any person proposing to discharge effluent or leachate so that it may move directly or indirectly into the ground water must have a discharge plan approved by the director. The purpose of a discharge plan is to provide the technical staff and the director of the regulating agency (in this case, the Environmental Improvement Division) with sufficient information about your operation to demonstrate that your activities will not cause the regulations to be violated.

The review of a proposed discharge plan often requires several months, including time for requests to the potential discharger for additional information and clarification, in-house information gathering and analysis, and field investigations of the discharge site. Also, when a discharge plan is received, pursuant to Section 3-108 of the regulations, the EID must publish a public notice and allow 30 days for public comment before a discharge plan can be approved or otherwise resolved. If significant public interest is indicated, a public hearing will be held which will require several additional weeks.

The following discharge plan application forms have been prepared as guidelines which may be used by the discharger to aid in fulfilling the requirements of Sections 3-106 and 3-107 of the regulations and to expedite the review process. Part A enumerates the general information required for all discharge plans. There may also be a Part B of these guidelines for certain types of operations. For guidelines having a Part B, it is not necessary to duplicate answers that have been addressed adequately in Part A. The final reference for what must be contained in your discharge plan is the WQCC regulations.

Completed application forms should be sent to:

Ground Water Section
Ground Water/Hazardous Waste Bureau
N.M. Environmental Improvement Division
P.O. Box 968
Santa Fe, NM 87504-0968

Telephone: (505) 984-0020

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

DISCHARGE PLAN APPLICATION - Part A

Name of discharger or person legally responsible for discharge:

Darrell Deming

Address: Hydrostatic Pipe Service, Inc.

P.O. Box 2478

Hobbs, NM 88240

Telephone: 397-1234

Local representative or contact person if different from above:

Name: Paul Dempsey

Address: same as above

Telephone:

General Information Required of All Discharge Plans

1. Location of Discharge

County Lea, T 18S, R 38E, Sec. 32, SW ¼ of SW ¼
(use state coordinates or latitude/longitude on unsurveyed land)

NOTE: A topographic map or detailed aerial photograph should be used in conjunction with a written description to depict the locations of the discharge and other relevant objects.

2. Type of operation, facility or development. Pressure-testing of oil field tubular goods. Washing of Hydro Pipe Svc. pressure trucks.

3. The means of discharge (To a lagoon, flowing stream, watercourse, arroyo, cropland, septic tank-leach field, other - specify.
SEE ATTACHED

4. Quantity

Total volume in gallons per day (gpd), of each discharge or combination of discharges. _____gpd.

If more than one discharge stream and/or discharge point, give gpd for each.
SEE ATTACHED

5. Quality

Concentrations, in milligrams per liter (mg/l), of any contaminants listed in Section 3-103, total nitrogen, and any toxic pollutants as defined in Subsection 1-101.U.U. of the regulations that may be present in the discharge.

Contaminant		Concentration (mg/l)
_____	To be determined on the basis of sampling by EID (see #13)	_____
_____		_____
_____		_____
_____		_____
_____		_____

6. Name, description, and location of any bodies of water or watercourses and ground water discharge sites (wells, seeps & springs) within one mile of the outside perimeter of the discharge site. no seeps or springs or surface water; well list attached.

7. Depth to and total dissolved solids (TDS) concentration of the ground water most likely to be affected by the discharge,

Depth 34 (in 1954) feet. TDS 1310 mg/l.

Source of information: Depth from State Engineer well record for one of two wells drilled on Hydro Test's property (SEO record #L-2555). TDS from State lab analysis of sample collected from the "old well".

8. Flooding potential of the discharge site. SEE ATTACHED.

Flooding protection measures (berms, channels, other, if applicable):

_____

9. Describe the monitoring system proposed in the plan in which adequate provision for sampling of effluent and adequate flow monitoring is included, so that the amount(s) being discharged onto or below the surface of the ground can be determined.

SEE ATTACHED

10. Location(s) of existing or proposed wells to be used for monitoring ground water quality. Specify below or locate on map.

Township	Range	Section	¼ of ¼ of ¼
SEE #13			

11. Geologic description of discharge site. If drillers log(s) are available, please attach.

Soil (sand, clay, loam, caliche, etc.) landfill over caliche SEE ATTACHED

Name of aquifer Ogalala

Aquifer material (e.g. alluvium, sandstone, volcanic, etc.) sand/ss

Depth to rock at base of alluvium (if available) _____

12. Copies of plans and specifications for sewerage and flow systems, including materials specifications provided by the manufacturer, must be submitted to the EID District Engineer and to the Ground Water Section of the EID Ground Water and Hazardous Waste Bureau.

13. What conditions naturally exist, or what actions will the discharger take to assure that New Mexico ground water standards are not going to be exceeded at any place of present or foreseeable future use as a result of the operation? Use separate attachments when necessary. SEE ATTACHED

a. Specific hydrologic, geologic and/or agricultural information?

b. Minimizing discharge (e.g. synthetically lined ponds with leak detection system)?

c. Ground water monitoring program with contingency plan should ground water standards be threatened?

NOTE: To demonstrate that ground water standards are not going to be violated, additional information may be requested of the discharger.

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete and accurate.

Signature _____ Date _____

Printed Name of Person Signing _____ Title _____

GENERAL INFORMATION

#3. The information on your septic system varies:

a) In Ann Claassen's 9/4/84 memo describing EID Hazardous Waste Section's investigation at Hydro-Test, she cites the installer, Trusty's Sales and Construction, reporting that "influent to the system goes first into an 1100 gallon grease trap, then an 1100 gallon sand trap, then 1100 gallon septic tank, and finally into a seepage pit that is 20' x 20' x 10'."

b) The EID Liquid Waste permit for the system indicates that the effluent from the bathroon goes to a septic tank and then straight to the seepage pit, while effluent from the truck wash goes through a sand trap, then a grease and oil trap, then into a "Large cavity drain field" with 1500' of bottom area and 12' sides.

Please describe the actual system.

#4. The Liquid Waste permit states that system design flow is 500 gallons per day (gpd). However, State Engineer records for average water use from the well between 1979 and 1983 gives a figure of 1.83 acre-feet per year = 1634 gallon per day. What is the actual flow to the system?

#8. You informed Ann Claassen that the area on which the north wing is built used to be boggy before you filled the site for construction. Was this due to storm runoff ponding in the area? If so, has there been any construction or change in the topography to divert future runoff that might affect your property?

#9. Flow monitoring: please submit copies of the meter readings that you send to the State Engineer on a quarterly basis, due on or before the 10th of January, April, July and October. If there is a substantial fraction of the water pumped from the well that does not eventually return to the septic system, please explain what happens to that stream and approximately what volume it constitutes.

Sampling of effluent: samples will be bailed from the second riser (is this the sand trap or grease trap?). A monitor well may be required, depending on the results of two samples from the second riser (see #13).

#10. To be determined (if any - see #13).

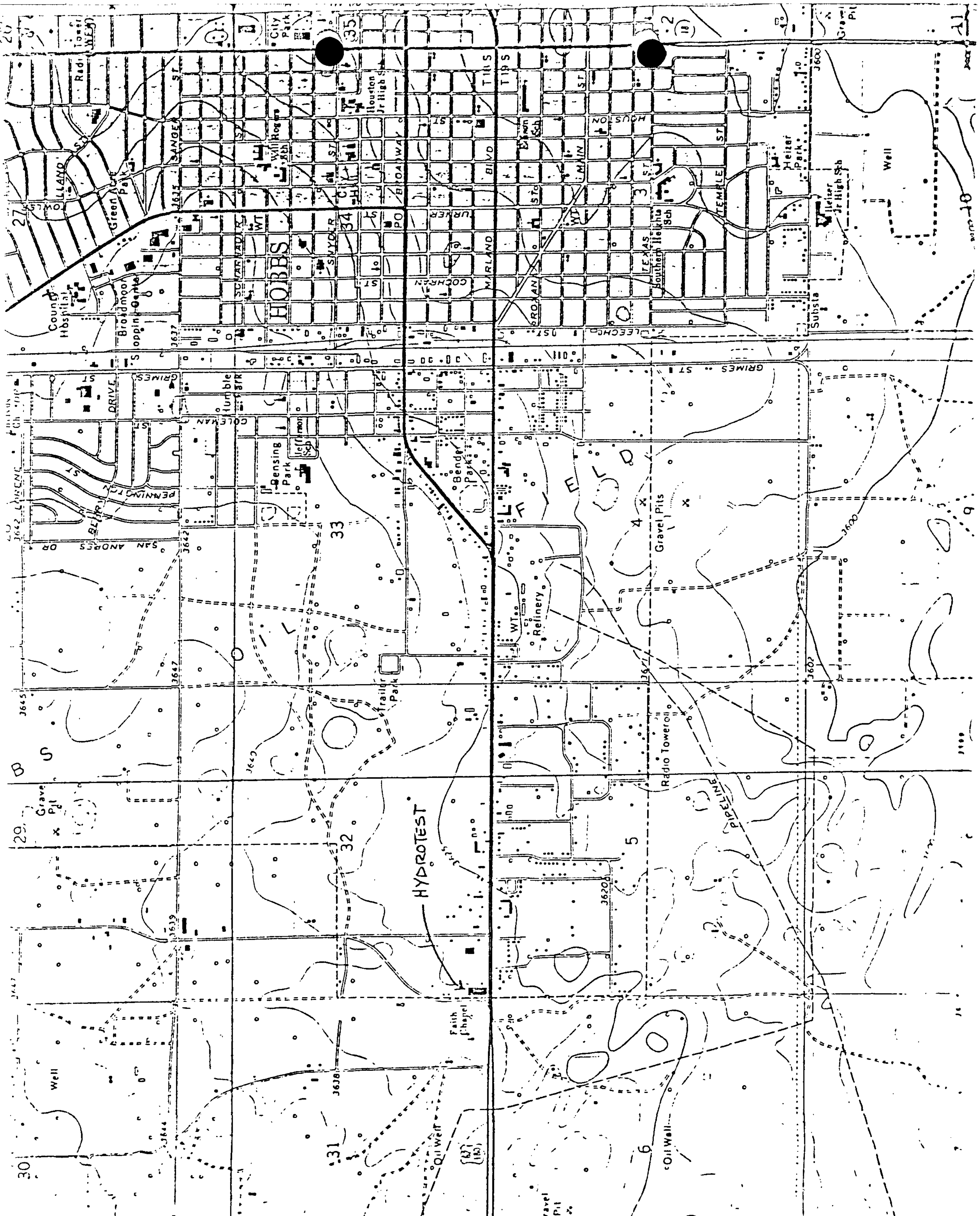
#12. I will forward a copy of your Liquid Waste Permit with the sketch of your septic system to the EID District Engineer in Roswell. He will also receive a copy of this discharge plan application with attachments, so that he is aware of the questions we have about dimensions and design of the system.

#13. The EID will collect two samples from the second riser over a period of six months. The time since the last pump-out of the system will be noted when the sample is collected. The samples will be analzyed for major cations and anions, TDS, nitrate as nitrogen, total nitrogen, the metals that are detectable in an ICAP scan (see attached list), and for purgeable and extractable hydrocarbons.

If no parameter in these samples is in excess of the standards listed in the Water Quality Control Commission (WQCC) regulations, Sections 3-103 and 1-101.UU, then the information in the discharge plan application (once it is completed and approved) will constitute the discharge plan.

If any parameter in these samples exceeds the standard specified for that parameter in the regulations by more than 25 percent in either sample, a monitoring well will be constructed approximately 20 feet downgradient of the seepage pit and perforated in the top ten feet of the first saturated zone that is encountered. This well may be constructed of 2" PVC unless the parameters of concern (those exceeding the standards at the second riser) include organic chemicals. In that case, the well shall be constructed of steel. This well shall be sampled by Hydro-Test at intervals to be determined at the time of construction for those parameters that exceeded the standards at the second riser.

If these parameters exceed standards at the monitoring well (except for those parameters that reflect the sewage component of the discharge). Hydro-Test will take steps to reduce the concentrations of contaminants in the discharge to meet the WQCC standards.



HOBBS
HYDROTEST
Refinery
Gravel Pits
Radio Tower
PIPELINE
Trailer Park
Bender Park
Bensing Park
Faith Chapel
Oil Well
Well
Gravel Pit
Substa
Heizer Park
Heizer Jr High Sch
Houston Jr High Sch
County Hospital
Broadmoor Shopping Center
City Park

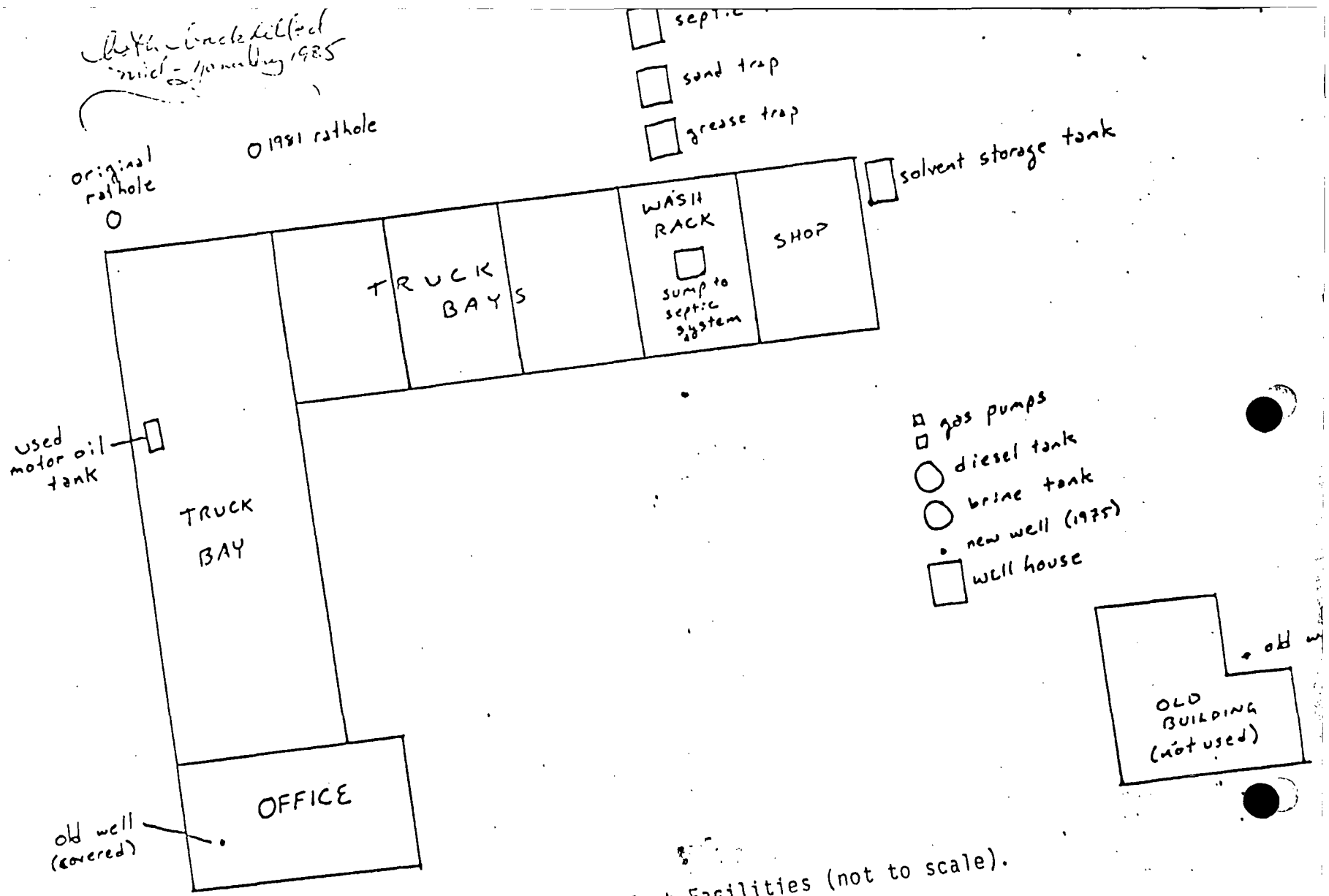


FIGURE 2. Sketch of the Hydro-Test Facilities (not to scale).

2 of 2 (Instructions and Explanations on Reverse Side)

Type of disposal system: ☐ Standard trench ☐ Absorption bed

☒ Other - specify _____

Field size: Depth 12' Square feet of bottom area Side wall 1600

Depth of gravel below distribution pipe - in inches none

Type of liner (if required) staggered concrete block

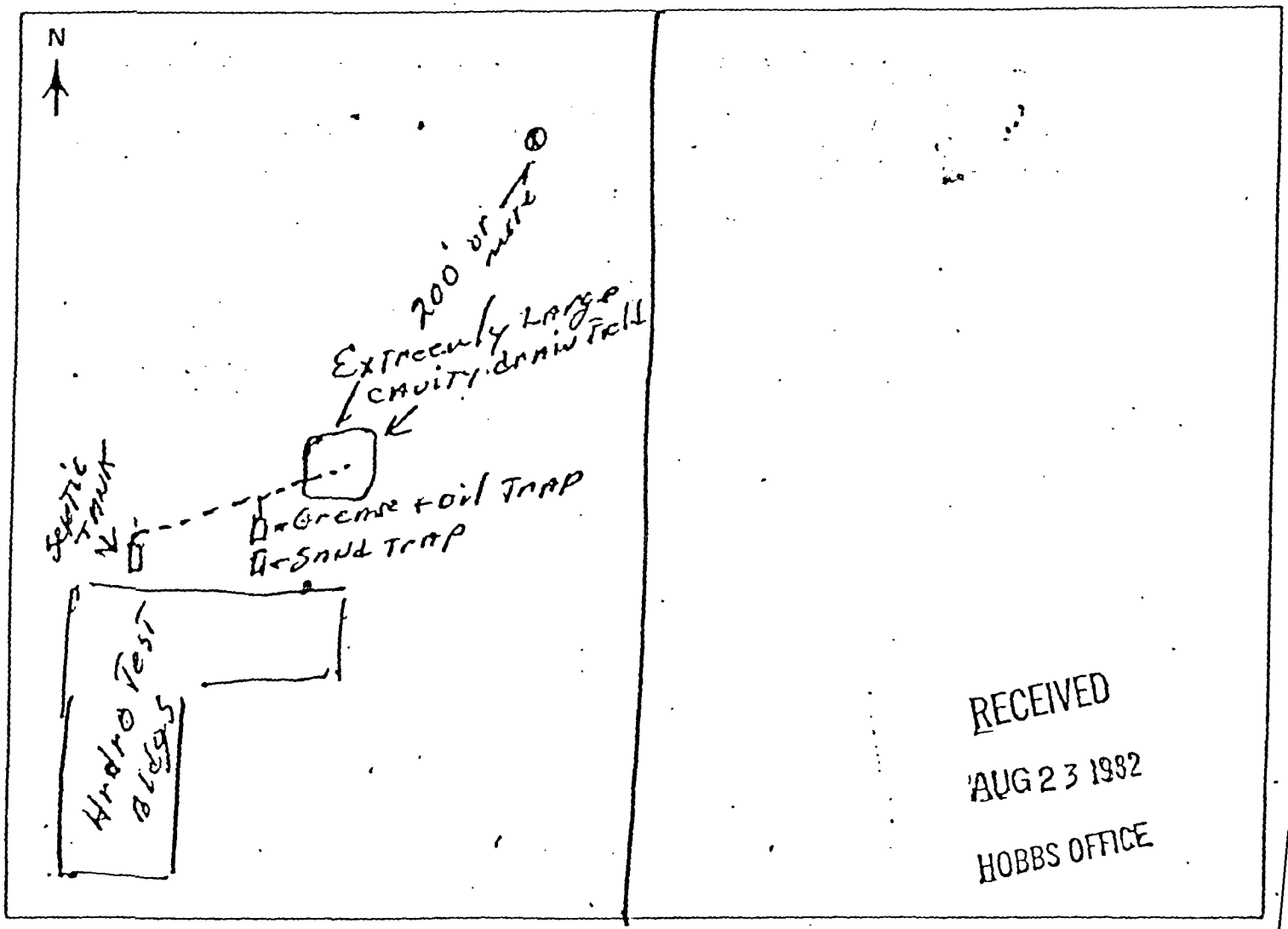
REMARKS: Drain Cavity Serves Bathroom + Wash + Steam Room

PLOT PLAN — Diagram the liquid waste system; include the following landmarks within 200 feet of the system:

a) proposed existing buildings, driveways, water wells, water supply pipes, other liquid waste disposal systems;

b) lakes, reservoirs, streams, arroyos, other water courses, and expected direction of groundwater flow; and

c) property lines and dimensions of the parcel of land where the system is to be located.



RECEIVED
AUG 23 1982
HOBBS OFFICE

VI. APPLICATION

West Maryland

The foregoing information has been submitted to the Environmental Improvement Division as required by Section 102, Subsection B of the Liquid Waste Disposal Regulations adopted by the Environmental Improvement Board. This information is correct and true to the best of my knowledge. I understand that the issuing of the permit does not relieve me from the responsibilities of complying with all applicable provisions of the Liquid Waste Disposal Regulations.

Don L Tousty 8-19-82

(This form to be executed in triplicate)

WELL RECORD

Date of Receipt ..... Permit No. L-2555

Name of permittee, Skelly Oil Co.

Street or P. O. Drawer D, City and State Hobbs, New Mexico

1. Well location and description: The Shallow (shallow or artesian) well is located in SW ¼, SW ¼, SW ¼ of Section 32, Township 18 S, Range 38 E; Elevation of top of casing above sea level, ... feet; diameter of hole, 8 inches; total depth, 116 feet; depth to water upon completion, 34 feet; drilling was commenced June 25, 19 54 and completed June 25 19 54; name of drilling contractor Ed. B. Burke Box 306; Address, Hobbs, New Mexico; Driller's License No. WD-111

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	54	85	31	Water Sand
No. 2	101 ~~116~~	116	15	Water Sand
No. 3				
No. 4				
No. 5				

3. Casing Record:

Diameter in Inches	Pounds per ft.	Threads per Inch	Depth of Casing or Liner Top	Depth of Casing or Liner Bottom	Feet of Casing	Type of Shoe	Perforation From	Perforation To
6 5/8	20	10	0	113	113	collar	85	113
	Cemented from 0 to 57							

4. If above construction replaces old well to be abandoned, give location: ..... ¼, ... ¼, ... ¼ of Section ....., Township ....., Range .....; name and address of plugging contractor.

5. Log of Well:

Depth in feet From	Depth in feet To	Thickness in feet	Description of Formation
0	4	4	Top Soil
4	25	21	Caliche
25	34	9	Pack Sand
34	39	5	Water Sand (weak)
39	54	15	Pack Sand
54	85	31	Water Sand
85	94	9	Hard Sand Rock
94	101	7	Tight Sand
101	116	15	Water Sand

STATE OF NEW MEXICO HEALTH ENVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 8:20 a.m.	Date 4/1/85

Originating Party	Other Parties
Paige Morgan	Paul Dempsey, mgr. Hydro Test

Subject: DP for septic tank & seepage pit

Discussion: I told Mr. Dempsey I would fill out the DP Part A application form to the extent possible based on the materials in their file, and send it to him for completion. He agreed; repeated that they are not using solvents in their washing process any more, said he didn't see how it would be possible to get a sample of final effluent in seepage pit. I said perhaps he could get an idea from the installer of their septic system whether you could sample

Conclusions or Agreements: for the water phase out of the grease trap riser. I said I'd also check on that with the Liquid Waste people at EID.

Distribution

Signed: Paige Morgan

STATE OF NEW MEXICO
ENERVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 8:30 a.m.	Date 3/28/85
Originating Party	**Other Parties**	
Patsy Morgan	Paul Dempsey, mgr. (Hydro. Test) Darrell Deming, owner	

Subject Liquid Waste permit for septic tank & leach field does not cover industrial discharge component (washwater from truck wash)

Discussion I called to explain why a DP was still required even though they had a Liquid Waste permit and to offer to drop by (we were in Hobbs at the time) to go over the DP outline. Paul Dempsey agreed I should come by. I called back shortly afterwards to confirm a time and was connected with Darrell Deming. He said they had done everything they could do to be in compliance and the next communication from us should be with their lawyer. I apologized for the appearance that ED had singled them out in requiring letter-of-the-law compliance and said we were conducting a search for other systems such as theirs (under UIC Class V Amendments). I suggested I call Paul Dempsey the following day to go over outline. Mr. Deming agreed.

Conclusions or Agreements

Distribution

Signed Patsy Morgan

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

MEMORANDUM

DATE: March 19, 1985

TO: Paige Morgan, Groundwater Section, Santa Fe

FROM: Tom Burt, HPM I, Carlsbad/Hobbs

SUBJECT: HYDROSTATIC PIPE SERVICE LIQUID WASTE PERMIT NO. 39488

As per your request, the liquid waste permit No. 39488 for Hydrostatic Pipe Service is enclosed.

I look forward to working with you when you are in our territory next week.

TB/jp

Enclosure: Permit & Application

pc John Guinn, HPM II, Roswell
EID - Carlsbad
Files - Hobbs EID

DROSTATIC PIPE SERVICE

PERMIT

TO CONSTRUCT, INSTALL OR MODIFY AN INDIVIDUAL LIQUID WASTE SYSTEM

(Permit is to remain with system)

HEALTH ENVIRONMENT

STATE OF NEW MEXICO
Environmental Improvement Division

EID Permit Number 39488

CID Permit Number *(Required by NMMB)* 201840

Application for permit has been received by the Environmental Improvement Division. The liquid waste disposal system as described therein meets the requirements of the Liquid Waste Disposal Regulations. A permit is hereby issued for the installation or modification of the described liquid waste disposal system in the manner specified in the application for permit or variance, and the following additional conditions:

System Location: 3030 West Marland - Hobbs, NM

[X] ENVIRONMENTALIST
[ ] ENGINEER

Brown Edwards
Signature

August 23, 1982
Date

EID 0278 Issued 11/79

Brown Edwards, Environmentalist

APPLICATION FOR PER[illegible]

NM Commerce & Industry Department
Construction Industries Division
Mechanical Bureau
Bataan Memorial Building
Santa Fe, New Mexico 87503

OWNER Hydrostatic Pipe Service
ADDRESS 3030 W. Maryland
TOWN / CITY Hobbs, N. M. 88240

PERMIT 201840

Residence: Old ☐ New ☑ OCCUPANCY GROUP I
Commercial: Old ☐ New ☐

PERMITS AND INSPECTION FEES

____	Each Plumbing Fixture @ $1.00	$ ____
____	Each Water Distribution System	$ ____
____	Each Building Sewer	$ ____
1	Each Septic Tank	$ 3.00
____	Each Water Heater	$ ____
____	Each Swimming Pool	$ ____
____	Each Water Conditioner	$ ____
____	Each Evaporative Cooler	$ ____
____	Each Vacuum Breaker or Backflow Device	$ ____
____	Each Ventilation System	$ ____
____	Each Refrigeration System	$ ____
____	Each Duct Work System @ $3.00	$ ____
____	Each Domestic Hot Water Solar Heating System	$ ____
____	Each Solar Space Heating System	$ ____
____	Other (Specify)	$ ____

Mercury Test? Yes ☐ No ☐

____ Yard Line	____ Range
____ Capped Opening	____ Boiler
____ Water Heater	____ Central Furnace
____ Wall Heater	____ Other

Total Gas Units @ $1.00 ____

Minimum Fee for Any Inspection	$3.00	3.00
Re-Inspection for Any Work	$10.00	____
Final Inspection/Certificate of Approval	$5.00	____
	TOTAL	$ 6.00

Applicant of this permit confirms that work performed is in compliance to all applicable New Mexico Laws, Codes, Orders, Rules and Regulations. NOTE: Failure to request a final inspection is in violation of the Construction Industries Licensing Act.

License No. 11978 (Qualifying Party) Don Treaty
Date 8-11-82 Company Treaty Sales & Contr

INSPECTOR'S USE ONLY
Final Inspection

Date ____ Inspector ____

STATE OF NEW MEXICO
ENVIRONMENT
Environmental Improvement Division

APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR MODIFY AN INDIVIDUAL LIQUID WASTE SYSTEM

(Instructions and Explanations on Reverse Side)

EID USE
EID PERMIT NUMBER: 3948
CID PERMIT NUMBER: 20154

SYSTEM OWNER'S NAME - Last, First and Middle: Hydrostatic Pipe Service	HOME PHONE:	BUSINESS PHONE: 393-7508
MAILING ADDRESS - Street/P.O. Box, City, State and Zip Code: 3030 W. Marland - Hobbs, N.M. 88240		
LOCATION OF SYSTEM - Street address, subdivision block and lot, or directions to site: same		
SYSTEM INSTALLER'S NAME - Last, First and Middle: Trusty, Don		
INSTALLER'S FIRM: Trusty Sales & Const	COUNTY: Lea	PHONE: 393-4378
MAILING ADDRESS - Street/P.O. Box, City, State and Zip Code: Star Rt B Box 1090 - Hobbs, N.M. 88240		
C.I.D. LICENSE NUMBER: 11978	C.I.D. LICENSE CLASSIFICATION: ☐ MM-1 ☐ MM-98 ☐ MS-1 ☑ MS-3	

I. GENERAL INFORMATION

Type of Establishment:
☐ Single family residence ☐ Multi-family facility ☐ Seasonal Residence ☑ Other - *specify* Garage Bathroom

Number of bedrooms _____ Other unit basis 5 *employees, patrons, seats, etc.* Number of units _____

II. SITE INFORMATION

Lot size 5 Acres *square feet or acres* Minimum field area available 2000 ft or More *square feet or acres*

Date Platted: ☑ Pre-November 1, 1973 ☐ Post-November 1, 1973

Water Supply: ☐ Public ☑ Private well ☐ Other - *specify* _____

Soil Depth *(number of feet above bedrock or impervious layer)*: ☐ Greater than 6 feet ☑ Less than 6 feet 2' *number*

Soil Type: ☐ Gravel ☐ Sand ☐ Silt ☑ Clay ☑ Loam

☐ Other - *specify* _____

Has evidence of percolation test been submitted? ☑ Yes ☐ No

Percolation Rate in minutes per inch *(a percolation test is required; see Section 202, Subsection E2, Liquid Waste Disposal Regulations)* 4½

Depth to Seasonal High Water Table *(see Section 209, Liquid Waste Disposal Regulations)*:

☑ Greater than 20 feet ☐ 12 to 20 feet ☐ Less than 12 feet _____ *number*

Ground Slope *(in feet per 100 feet at absorption field site)* 3 or

Flooding Potential: ☑ Less than 1 in 25 years ☐ More than 1 in 25 years

RECEIVED
MAR 10 1983
HAZARDOUS WASTE BUREAU

III. SYSTEM DESIGN

Type of Treatment System: ☑ Septic tank ☐ Aerobic ☐ Privy

☐ Other - *specify* _____

RECEIVED
AUG 23 1982
HOBBS OFFICE

Liquid waste treatment unit capacity *(in gallons or gallons per day)* 1000

Liquid waste treatment unit manufacturer Trusty's

Liquid waste treatment unit certification: ☑ New Mexico Mechanical Bureau ☑ National Sanitation Foundation

System Design Flow in gallons per day *(see Appendix A of Liquid Waste Disposal Regulations)* 500

2 of 2 *(Instructions and Explanations on Reverse Side)*

Type of disposal system: ☐ Standard trench ☐ Absorption bed

☑ Other - *specify* _____

Field size: Depth 12' Square feet of bottom area Side wall 1500

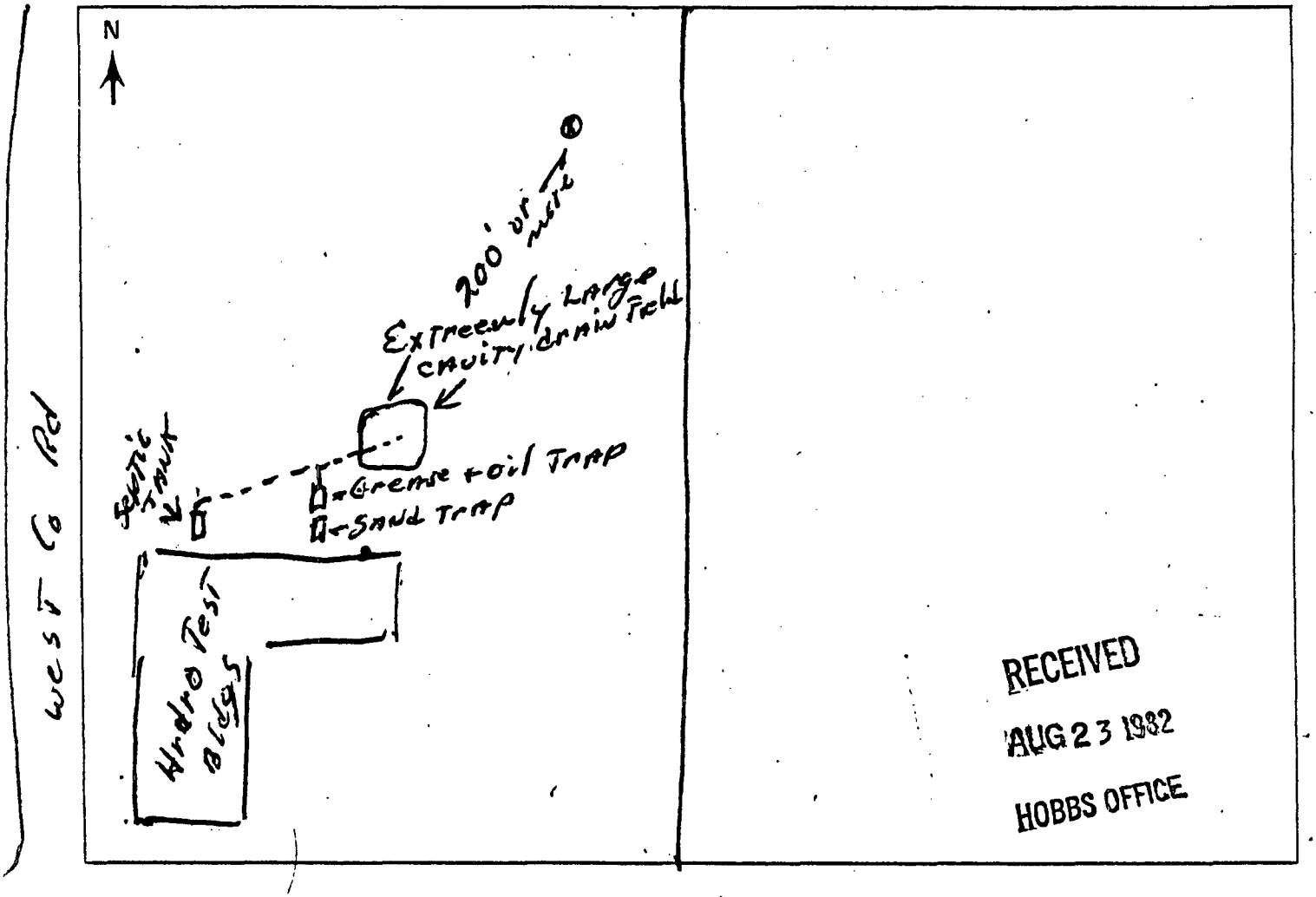
Depth of gravel below distribution pipe - in inches none

Type of liner *(if required)* staggered concrete block

IV. REMARKS: Drain Cavity Serves Bathroom + Wash + Steam Room

V. PLOT PLAN — Diagram the liquid waste system; include the following landmarks within 200 feet of the system:

a) proposed existing buildings, driveways, water wells, water supply pipes, other liquid waste disposal systems;
b) lakes, reservoirs, streams, arroyos, other water courses, and expected direction of groundwater flow; and
c) property lines and dimensions of the parcel of land where the system is to be located.



RECEIVED
AUG 23 1982
HOBBS OFFICE

VI. APPLICATION

West Maryland

The foregoing information has been submitted to the Environmental Improvement Division as required by Section 102, Subsection B of the Liquid Waste Disposal Regulations adopted by the Environmental Improvement Board. This information is correct and true to the best of my knowledge. I understand that the issuing of the permit does not relieve me from the responsibilities of complying with all applicable provisions of the Liquid Waste Disposal Regulations.

☐ OWNER ☑ CONTRACTOR Don L Trusty
Signature

8-19-82
Date

TRUSTY'S
SALES & CONSTRUCTION CO.
Star Route B Box 1090
HOBBS, NM 88240
Phone 393-4378

INVOICE

No 3483

Page One

DATE	SALESPERSON	CUSTOMER NO.	TERMS
8-16-82			

Hydrostatic Pipe Service
3030 W Marland
Hobbs New Mex

PO Box 2428

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
	Excavate & Construct 10,000 gal Seepage Pit For Gray Water Disposal		3250.00
	Excavate & Install one 1000 gal Septic Tank		850.00
	Excavate & Install one 1000 gal Sand Trap		850.00
	" " one 1000 gal Oil & Grease Trap		650.00
			5800.00

TRIPLICATE (Thank You (

TRUSTY'S
SALES & CONSTRUCTION CO.
Star Route B Box 1090
HOBBS, NEW MEXICO 88240
Phone 393-4378

STATEMENT

AMOUNT ENCLOSED $_____

DATE	TERMS
9-1-82	

Hydrostatic Pipe Service
PO Box 2428
Hobbs, N. M. 88240

PAY LAST BALANCE IN THIS COLUMN

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

DATE AND DESCRIPTION	CHARGES	CREDITS	
	PREVIOUS BALANCE →		
Inv. 3483 — 3 Pages	7,098.52		7,098.52

Thank you!
WE APPRECIATE YOUR BUSINESS

Ck # 8349
10-7-82

TRUSTY'S
SALES & CONSTRUCTION CO.

Thank You

TRUSTY'S
SALES & CONSTRUCTION CO.
Star Route B Box 1090
HOBBS, NM 88240
Phone 393-4378

INVOICE

Page 3

№ 3485

DATE	SALESPERSON	CUSTOMER NO.	TERMS
8-16-82			

Hydrostatic Pipe Serv.
3030 W Marland
Hobbs New Mex

6775.00

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	4" PVC Sch 40 Threaded Cleanout Tee		
	1 Plug		17.50
1	3" PVC Sch 40 Threaded Cleanout		
	Tee + Plug		15.00
1	4" Neoprene No Hub Connector		10.00
3	" " "		8.00
			50.50
			6825.50
		TAX	273.02
			7098.52

TRIPLICATE (Thank You (

TRUSTY'S
SALES & CONSTRUCTION CO.
Star Route B Box 1090
HOBBS, NM 88240
Phone 393-4378

INVOICE

Page 2

№ 3483

DATE	SALESPERSON	CUSTOMER NO.	TERMS
8-16-82			

Hydrostatic Pipe Service
3030 W Marland
Hobbs NMex

5500.00

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
	Trench + Lay 100' of 4" Drain Pipe	5.00 per ft	
	From Septic Tank + Traps To Seep Pit	5.00	500.00
	Trench + Lay 10' of 4" Bldg drain To Traps	5.00 per ft	50.00
	Trench + Lay 10' of 3" " "	4.50 per ft To Septic	45.00
2	6" PVC Risers + Caps on Sand Trap		190.00
2	6" " " " on 0.1 Trap		190.00
			475.00
			6775.00

TRIPLICATE (Thank You (

Mobile Analytical Laboratories

LABORATORIES IN ODESSA & GIDDINGS
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 6771
ODESSA, TEXAS 79767-6771
PHONE 337-4744

MARCH 6, 1985

HYDRO-TEST
P.O. BOX 2428
HOBBS, NEW MEXICO 88240

DEAR SIRS:

THE FOLLOWING ARE THE RESULTS OF THE ANALYSES OF THE SOIL SAMPLES RECEIVED 02-26-85, LAB NO. 311-312:

LAB NO. 311 - SOIL SAMPLE #1
pH = 9.2
NO ACID PRESENT
HYDROCARBONS = 2.2 ppm
HYDROCARBON IN HIGH BOILING RANGE

LAB NO. 312 - SOIL SAMPLE #2
pH = 9.3
NO ACID PRESENT
HYDROCARBONS = NONE DETECTED

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,

Walter Reid

WALTER REID
wr/bs

MOBILE ANALYTICAL LABORATORIES

LABORATORIES IN ODESSA & GIDDINGS
2800 WESTOVER STREET
P.O. BOX 6771
ODESSA, TEXAS 79767-6771

PHONE 337-4744

ALL BILLS PAYABLE AT OUR OFFICE AT ODESSA, ECTOR COUNTY, TEXAS FREE OF EXPENSE TO US.

In Account With: HYDRO-TEST
P.O. BOX 2428
HOBBS, NEW MEXICO 88240

Date: 03-06-85

Invoice No. 850237

---

2 SOIL ANALYSES @ $65.00 EACH $130.00
LAB NO. 311, SOIL SAMPLE #1, 02-26-85
LAB NO. 312, SOIL SAMPLE #2, 02-26-85

TOTAL $130.00

"THOSE WHO WANT THE BEST CHOOSE MOBILE LABS"

THIS IS YOUR INVOICE

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 11:15 a.m.	Date 3/15/85
Originating Party	Other Parties	
Patsy Grant Morgan	Paul Dempsey Hydrotest	

Subject non-response to the 2/20/85 letter over Dempsey's signature regarding requirement of DP for septic tank.

Discussion Dempsey told me that Darrell Deming was handling that - he had a permit and would get in touch with us about it. Details of permit as he described it: Issued by ED Carlsbad, August 23, 1982 by Brown Edwards. Permit # 39488. Issued specifically for both garage and bathroom.

Conclusions or Agreements I immediately called ED Carlsbad and requested a copy of everything in the file on that permit.

Distribution

Signed Patsy Grant Morgan

HEALTH & ENVIRONMENT department

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIV
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

P 612 423 814

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

U.S.G.P.O. 1983-403-517

Sent to Darrell Deming
Street and No. P.O. Box 2478
P.O. State and ZIP Code Hobbs, NM 88240
Postage $

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

February 20, 1985

Darrell Deming
HYDROSTATIC PIPE SERVICE, INC.
P.O. Box 2478
Hobbs, NM 88240

RE: Non-compliance with New Mexico Water Quality Control Commission (WQCC) regulations.

Dear Mr. Deming:

In a letter to you from the Chief of the EID Ground Water/Hazardous Waste Bureau dated October 30, 1984, you were informed of the following:

1. Use of the disposal wells at your truck maintenance-truck washing facility was illegal and the wells and adjacent formation must be cleaned up and plugged in accordance with a plan developed in conjunction with EID staff; and

2. You should have notified the EID prior to putting the septic system at your facility to use. On the basis of the information provided in the Notice of Intent to Discharge, EID staff would have made the decision whether or not a discharge plan is required for your septic tank and seepage pit.

In response to the above letter, Mr. Deming, you or your staff had several contacts with EID staff members Paige Morgan and Steven Sares by phone or in person, in which they stressed the need to plan ahead for the cleanup and to allow them to review the plan before carrying it out. Instead, your staff proceeded to ream out and plug the holes without conferring with EID. By the time Mr. Sares visited your facility on January 30th, nothing remained by which to assess the adequacy of the cleanup. The cleanup carried out by your staff may well have been sufficient to remedy the problem but EID did not receive sufficient information to demonstrate that fact.

When available, the results of the soil samples you collected from the walls of the reamed-out disposal holes may give some indication of the degree of contamination, if any, remaining at the site. Some additional information must be obtained in the process of preparing a discharge plan for the septic tank and seepage pit.

Indeed, on the basis of information obtained by EID staff in the course of investigating ground water quality damage by your disposal wells, and pursuant to the WQCC regulations, you are hereby notified that a discharge plan as defined in Section 1-101.P. is required for your existing septic system located at 3030 West Marland in the town of Hobbs, Lea County, New Mexico. This notification of discharge plan requirement is pursuant to Sections 3-104 and 3-106 of the regulations.

Please be advised that the filing of plans and specifications is required under Section 1-202 of the regulations. Plans and specifications are to be filed with the Environmental Improvement Division field engineer at the EID District office - in this case, the Roswell office located at 200 East Fifth St., Roswell, NM 88201, ATTN: District Engineer, telephone (505) 623-6984.

Enclosed for your convenience are a discharge plan application form/outline and a brief description of discharge plan procedures.

You are in violation of the regulations by continuing to discharge by way of your septic tank and seepage pit without an approved discharge plan for the facility. Because the EID recognizes that to require that you discontinue use of your septic system until your discharge plan is approved would constitute undue economic hardship to you, pursuant to Section 3-106.B. of the WQCC regulations the above-referenced discharge is hereby allowed without an approved discharge plan until 120 days from the date of this letter. This 120-day period is non-renewable.

This approval is conditioned on your discharging no organic chemical solvents to the septic system. If the discharge is not as described, this approval is automatically revoked. Please confirm in writing your agreement with this condition or cease your discharge on or before March 1, 1985. Assuming that you agree with the above condition and begin immediately to prepare a discharge plan for your septic system, please be aware that if you have not obtained EID approval of the discharge plan on or before the 120th day from the date of this letter, you must cease to discharge into the septic system. To continue to discharge into the septic system without an approved discharge plan is a violation of the WQCC regulations and can result in criminal penalties of up to $10,000 per day and civil penalties of $5,000 per day (74-6-5 P and Q, NMSA 1978).

If you have any questions, please contact Paige Morgan of the Environmental Improvement Division staff at the above address and telephone number, ext. 206.

Sincerely,

Anthony Drypolcher
for Denise Fort
Director

DF:PGM:jba

cc: John Guinn, EID District IV, Roswell
Duff Westbrook, EID Legal Bureau, Santa Fe

ENCLOSURE: DP Outline

ID BUCKSLIP

CHECK ONE:

[X] LETTER TO Hydrotest
for Director's signature by Bureau Chief

[ ] MEMO TO _____

[ ] PRESS RELEASE

[ ] OTHER

SUBJECT: noncompliance – DP required

REDRAFTED BY: Patsy Morgan 2/18/85 (Date)

CONCURRENCES:

NAME:		INITIAL	DATE REC'D	DATE APPROVED
Maxine Hood	Sect. Mgr.	MSH	2/18/85	2/19/85
Tony Dispatcher	Bur. Chief	TD	2/19/85	2/19/85
Richard Holland	Dep. Dir.			
Denise Fort	Director			

FINAL DECISION NEEDED BY ASAP (date) BECAUSE delay gives the appearance that we assign low priority to the situation.

COMMENTS BY DRAFTER OR REVIEWER(S):

Hydrotest used two unpermitted disposal wells for several years to get rid of waste oil and organic solvents from their truck washing facility. Hazardous Waste investigated last summer: nothing in files was on RCRA list. UIC took over response. History since that point is summarized in letter.

ID BUCKSLIP

CHECK ONE:

☒ LETTER TO Darrell Deming - Hydrotest / HYDROSTATIC PIPE SERVICE INC.
for Bureau Chief / Director? signature

☐ MEMO TO _____

☐ PRESS RELEASE

☐ OTHER

SUBJECT: Noncompliance / DP Required

DRAFTED BY: Paige Morgan 2/11/85 (Date)

CONCURRENCES:

NAME:		INITIAL	DATE REC'D	DATE APPROVED
M. Goad	Sect. Mgr.	MSG	2/12/85	2/12/85
T. Drypolcher	Bur. Chief	_____	2/12/85	_____
Richard Holland	Dep. Dir.	_____	_____	_____
Denise Fort	Director	_____	_____	_____

FINAL DECISION NEEDED BY _____ (date) BECAUSE _____

COMMENTS BY DRAFTER OR REVIEWER(S):

THIS LETTER REVIEWS NON-COMPLIANCE AND FAILURE TO COOPERATE WITH STAFF IN THE CLEANUP OF 2 ILLEGAL DISPOSAL WELLS IN HOBBS. ALSO, IT INFORMS OWNERS THAT THEY SHOULD HAVE FILED A NOI FOR THEIR NEW DISPOSAL SYSTEM. A DP IS BEING REQUIRED AND A 120 DAY EXTENSION GRANTED SO THAT THEY MAY CONTINUE TO OPERATE UNTIL DP IS SUBMITTED/APPROVED.

WATER WELL CONTRACTORS - BOX 537

RAT HOLE SERVICE - BOX 305

ABBOTT BROTHERS

PHONES 392-5806 392-5304 393-3255 393-5974

YARD ON LOVINGTON HIGHWAY

HOBBS, NEW MEXICO 88240

February 6, 1985

To whom it may concern:

Abbott Bros. Rat Hole Service cleaned out one drain hole to 15' and one drain hole to 40', for Hydaostatic Pipe Service.

Calvin Brown

Calvin Brown

Field Supervisor

RAT HOLE
MOUSE HOLE
SURFACE HOLE
FOUNDATION HOLE

W. C. and P. L. & P. D.
INSURANCE

PHONE 393-8228
or 393-8866

Abbott Bros. Rat Hole Service Co. INVOICE

Division of ABBOTT BROS. COMPANY
BOX 305
HOBBS, NEW MEXICO 88241-0305

No. 09273

Date January 17, 1985
Acct. # 454
Lease Yard
Ordered By Paul Dempsey
Rig No.
State New Mexico-Hobbs

Hydrotest
P.O. Box 2428
Hobbs, New Mexico 88240

TERMS NET: 16% INTEREST AFTER 30 DAYS

Cleaned out holes and secure formation samples.	
3 hrs. @ 100.00 per hr.	$ 300.00
4.25% Sales Tax	12.75
	312.75

RECEIVED
FEB 11 1985
GROUND WATER/HAZARDOUS WASTE
BUREAU

STATE OF NEW MEXICO
ENVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 3:45	Date 02-05-85
Originating Party: Jorge Morgan	Other Parties: Paul Simpson	

Subject: Why they had gone ahead with cleanup of holes without consulting with us first; why not any action on requirement of dp for pit

Discussion: I asked why they had addressed letter about proposed cleanup (such as it was) to Ann Claassen rather than to me, resulting in delay in my being notified; why they had gone ahead w/"cleanup" with no EID input after being told in person, by phone and in letter that our input was required. He said he thought it was important to get the holes closed up. He asked what they should do now. I pointed out there had been nothing done on dp since they were notified in ~~February~~ October, 84 to get one done and said they must send in a dp

Conclusions or Agreements: and in doing so must put in a monitor well adjacent to holes to ascertain depth to ground water & check for gw contamination adjacent to holes. I said I'd send a formal letter to Deming on this subject. He further said he'd call tomorrow w/ info on how deep they had reamed out holes.

Distribution: file

Signed: Jorge Grant Morgan

PHONE (505) 393-7508

HYDROSTATIC PIPE SERVICE, INC.
HOBBS, NEW MEXICO

P.O. BOX 2428

January 17, 1985

RECEIVED

FEB 01 1985

HAZARDOUS WASTE SECTION

Environmental IMprovement Division
Crown Building
725 St. Michael's Drive
P.O. Box 968
Santa Fe, New Mexico 87504-0968

Attn: Ann Claassen

Re: Disposal Holes - Hydrostatic Pipe Service, Inc.

Dear Ms. Claassen:

Our disposal holes were cleaned out and drilled out to 28" and 30" I.D. - Formation was clean and no trace of oil or cleaning chemical. Holes were filled with caliche and dirt and abandoned for any future use.

Sincerely,

Paul Dempsey, Manager

HYDROSTATIC PIPE SERVICE, INC.

PB/eb

cc: File

STATE OF NEW MEXICO
HEALTH ENVIRONMENT

Date 1/31/85

To Paige

Building/Room

- ☐ For Your Attention
- ☐ For Your Information
- ☐ Please Comment
- ☐ Please See Me
- ☐ Please Handle
- ☐ Approved
- ☐ For Your Recommendation
- ☐ For Your Approval
- ☐ Please Return
- ☐ Please File
- ☐ Please Mail
- ☐ As Requested

☐ Telephone Call: Number 397 1234 Time Called

MESSAGE Paul Dempsey, Nydrotest, called. The lab they originally were going to use can't take the samples, so they are sending them to Mobil Lab. in Odessa. I said that sounded ok to me, but that he should be dealing with you.

From Ann

Building/Room

ADM 030 Issued 5/78

No. of Samples	Ion
	Na
	K
	Ca
	Mg
	Cl
	HCO3
	CO3
	SO4
	TDS
	NO3+ NO2
	NH3
	kjeld N
	As
	Ba
	Cd
	CN
	Cr
	F
	Pb
	Hg
	Se
	Ag
	U
	V
	Ra 226
	Ra 228
	Cu
	Fe
	Mn
	Phenols
	Zn
	Al
	B
	Co
	Mo
	Ni
	pH
	Conduct.

FIELD TRIP REPORT
GROUND WATER SECTION

SLD USER CODES

Ground Water: 59300

NO_3, HC, & Toxics: 59600

UIC: 59500

County LEA

FACILITY VISITED

Name of Facility: HYDRO-TEST

Location: Hobbs, NM

Discharge Plan Number: DP-

Type of Operation: Oil Field Service

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT

EID Inspector(s): SARES/BAKER

Date of Inspection or Visit: 1-30-85

Discharger's Representative Present During EID Visit: Paul Dempsey

Name:

Title or Position: Manager

Purpose of Visit:

a. Evaluation of Proposed Discharge Plan

b. Compliance Inspection of Discharge with Approved Plan

(c) Other (specify) Inspect Cleanup of ratholes

Inspection Activities During Field Visit:

a. Inspection of Facilities or Construction (specify)

Inspected location of former rat holes. The holes have been reamed out to 28-30" and filled with caliche & dirt.

b. Sampling of Effluents (give sampling locations)

c. Sampling of Ground Water (give names or locations of wells)

d. Evaluation of geology, soils, water levels or other physical characteristics of the location (specify)

Area has been graded over, No sign of former holes.

e. Other (specify)

Observations and Information Obtained during the Visit:

effluent now goes into septic system & a 20'x20'x10' seepage tank.

ACTION REQUIRED

ONE (505) 393-7508

HYDROSTATIC PIPE SERVICE, INC.
HOBBS, NEW MEXICO

P.O. BOX 2428

January 14, 1985

RECEIVED
JAN 21 1985
HAZARDOUS WASTE SECTION

Environmental Improvement Division
Crown Building
725 St. MIchael's Drive
P.O. Box 968
Santa Fe, New Mexico 87504-0968

Attn: Ann Claassen

Re: Disposal Holes - Hydrostatic Pipe Service, Inc.

Dear Ms. Claassen:

We are waiting for holes #1 and #2 to dry out. At that time we will drill the 18" holes out to 24". Samples will be taken from outside walls of the holes for lab tests.

Weather permitting, this will be done within the next two weeks. Dirt removed from wells will be contained until taken to a proper disposal place. We will keep you informed on the progress.

Sincerely,

Paul Dempsey

HYDROSTATIC PIPE SERVICE, INC.
MANAGER

PD/eb

cc: File

Lueffner, ED Hobbs,

1/18/85

Rolf called to report that he spoke by phone with Hydro-Test yesterday. They said they were reaming out the hole (s? - Rolf was unaware there are two) and that they had sent me a letter yesterday. I had asked to make it clear that I wanted the opportunity to review the plan before they did anything, but am inclined to wait and read their plan now before I call them.

Lady Grant Morgan

1/17/85
11:00am. Rolf Ruffner, ED Hobbs, called to report that Hydro-Test had a test-hole rig set up about 20 feet from the old hole - he drove by twice to make sure. I told him they (Paul Dempsey) had told me they would have a plan in to me this week discussing what they proposed to do to clean up the holes, but I had specifically said we wanted to look at the plan before they started work. I asked Rolf to go by and find out what they were doing, explaining that we had spoken about the status of their cleanup.

Judge Grant Morgan

1/11/85. Talked to Paul Dempsey about what they were planning to do for cleanup. He says they'll get a plan in the mail to us today, but the idea is to clean out the holes, test the water encountered, propose a cleanup of contaminated water if necessary, and plug the holes.
No discussion of disposal of contaminated fluids or soil.

Larry Grant Morgan

moles	Ion
2	Na
2	K
2	Ca
2	Mg
2	Cl
2	HCO3
	CO3
2	SO4
2	TDS
	NO3+ NO2
	NH3
	kield N
	As
	Ba
	Cd
	CN
	Cr
	F
	Pb
	Hg
	Se
	Ag
	U
	V
	Ra 226
	Ra 228
	Cu
	Fe
	Mn
	Phenols
	Zn
	Al
	B
	Co
	Mo
	Ni
✓	pH
✓	Conduct.

organics (2)

FIELD TRIP REPORT
GROUND WATER SECTION

SLD USER CODES
Ground Water: 59300
NO_3, HC & Toxics: 59600
UIC: (59500)

County Lea

FACILITY VISITED
Name of Facility: Hydrotest
Location: western edge of Hobbs

Discharge Plan Number: DP- none
Type of Operation: truck washing facility for trucks used in pressure tests of wells/casing

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT
EID Inspector(s): Daryl Morgan, Steve Sanes
Date of Inspection or Visit: 11/29/84
Discharger's Representative Present During EID Visit:
Name: Paul Dempsey
Title or Position: Manager
Purpose of Visit:
a. Evaluation of Proposed Discharge Plan
b. Compliance Inspection of Discharge with Approved Plan
c. Other (specify) discussion of closure of "ratholes" - evalu
Inspection Activities During Field Visit: attion of ground
a. Inspection of Facilities or Construction (specify) water damage
looked at ratholes; sampled from from their use.
Hydrotest's water wells
b. Sampling of Effluents (give sampling locations)
did not sample fluids in ratholes - extensive analyses in file from Hazardous Waste's evaluation
c. Sampling of Ground Water (give names or locations of wells)
Old well (incorrectly designated "shallow well" in field book + analysis sheet) ≈ 300 ft fr. ratholes, 841129093
New well 841129095 4, 55, 56.
d. Evaluation of geology, soils, water levels or other physical characteristics of the location (specify)
e. Other (specify)

Observations and Information Obtained during the Visit:
No longer use the solvent Varsol in their truck cleaning - steam-clean instead. Effluent from that goes into septic tank which has sand trap + oil trap that are pumped out periodically.

ACTION REQUIRED
Evaluate extent of contaminated soil around septic tank. Leach field as part of process of getting discharge plan for that.

REPORT TO: Morgan/Sares
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER NC 5646
DATE RECEIVED 11/30/84
DATE REPORTED CO 1/22/85
Initials
SLD USER CODE NUMBER 59500

Well Location Address Hydrotest, Hobbs, NM
Point of Collection Hydrotest, old well
Well Owner/User Hydrotest
Number of People Drinking Water from Well ?

Collected 11/29/84 (Date) 0940 (Time)
By Morgan/Sares (Name) EID (Agency)

Well Depth ~40'
Water Level —

Taste? Odor? Color? Collectors Remarks

pH 6.89
Conductivity (Uncorrected) 1,600 umho/cm
Temperature 15 °C
Conductivity at 25°C ____ umho/cm

PROJECT: AD 937

From ____, A-H_2SO_4 Sample:

☐ Nitrate-N^+ Nitrite-N	____ mg/l		
☐ Ammonia-N	____ mg/l		
☐ Chemical oxygen demand	____ mg/l		
☐ ____	____		

From F, NA Sample:

			Date Analyzed
☑ Calcium	129	mg/l	1/16
☑ Potassium	7.80	mg/l	12/27
☑ Magnesium	35.4	mg/l	1/16
☑ Sodium	223	mg/l	12/27
☑ Bicarbonate	369.0	mg/l	1/14
☑ Chloride	299.5	mg/l	1/17
☑ Sulfate	246.9	mg/l	1/4
☑ Total Solids	1150	mg/l	1/2
☐ ____			

From ____, A-HNO_3 Sample:
☐ ICAP Scan
☐ Metals by AA (Specify)

This form accompanies 1 sample(s) marked as follows to indicate field treatment:
NF: Whole sample (no filtration).
F: Filtered in field with 0.45u membrane filter 8411290940
A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
A-HNO_3: Acidified with 5ml conc HNO_3/l
NA: No acid added

Old well

	reported (mg/l)	meq/l	%
Ca	129	6.44	
K	7.8	0.20	
Mg	35.4	2.91	+19.25
Na	223	9.70	
HCO_3	369	6.05	
Cl	299.5	8.45	-19.64
SO_4	246.9	5.14	

TDS sums to 1310.6
reported 1150

REPORT TO: Morgan/Sares
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER HM 1534
DATE RECEIVED 11/30/84
DATE REPORTED 1/8/85 mJ
Initials
SLD USER CODE NUMBER 59500

RECEIVED JAN 14 1985 GROUND WATER/HAZARDOUS WASTE BUREAU

Well Location Address Hydrotest, Hobbs, NM

Point of Collection Hydrotest, old well

Well Owner/User Hydrotest

Number of People Drinking Water from Well 2

Collected 11/29/84 (Date) 0939 (Time)

By SARES/Morgan (Name) EID (Agency)

Well Depth ~40'

Water Level —

Taste? Odor? Color? Collectors Remarks

pH 6.84

Conductivity (Uncorrected) 1,600 umho/cm

Temperature 15 °C

Conductivity at 25°C ____ umho/cm

PROJECT:

From ____, A-H_2SO_4 Sample:

- ☐ Nitrate-N^+ Nitrite-N ____ mg/l ____
- ☐ Ammonia-N ____ mg/l ____
- ☐ Chemical oxygen demand ____ mg/l ____
- ☐ ____ ____ ____

From F, A-HNO_3 Sample:

- ☑ ICAP Scan
- ☐ Metals by AA (Specify)

From ____, NA Sample:

		Date Analyzed
☐ Calcium	____ mg/l	____
☐ Potassium	____ mg/l	____
☐ Magnesium	____ mg/l	____
☐ Sodium	____ mg/l	____
☐ Bicarbonate	____ mg/l	____
☐ Chloride	____ mg/l	____
☐ Sulfate	____ mg/l	____
☐ Total Solids	____ mg/l	____
☐ ____		____

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

- NF: Whole sample (no filtration).
- F: Filtered in field with 0.45u membrane filter 8411290939
- A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
- A-HNO_3: Acidified with 5ml conc HNO_3/l
- NA: No acid added

ICAP -SCREEN

Lab Number: HM # 1534

Date Submitted: 11/30/84

By: Morgan Sares

Sample Code: Old Well Hydrotest, Hobbs N.M.

Date Reported: 1/8/85

By: MJ

Determination	Concentration (µg/ml)
Aluminum	<0.10
Barium	0.10
Beryllium	<0.10
Boron	0.41
Cadmium	<0.10
Calcium	120.
Chromium	<0.10
Cobalt	<0.10
Copper	<0.10
Iron	<0.10
Lead	<0.10
Magnesium	35.
Manganese	<0.05
Molybdenum	<0.10
Nickel	<0.10
Silicon	26.
Silver	<0.10
Strontium	2.2
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	0.36

84-1069-C

ironmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Patsy Morgan
BUREAU: GW/HWB

LABORATORY 11/30/84
LAB NUMBER or 1069A,B

SLD Users Code No. 59500

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other

Water Supply and/or Code No. Hydrotest - Old Well?

City & County Hobbs, Lea County

Collected (date & time) 11/29/84 9:40 a.m. By (name) Patsy Morgan

pH= 6.84; Conductivity= 1600 umho/cm at 15 °C; Chlorine Residual=

Dissolved Oxygen= mg/l; Alkalinity= ; Flow Rate=

Sampling Location, Methods & Remarks (i.e. odors etc.)

pumped intermittently (on 10 seconds, off 30) for ≈ 20 mins

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Patsy Grant Morgan

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed -

Method of Shipment to Laboratory hand-carried.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen 841129041; duplicate ; triplicate ; blank(s) ,
and amber glass jug(s) with teflon-lined cap(s) identified as ,
and other container(s) (describe) identified as .

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at ~~room~~ temperature ~~(≈20°C)~~. ambient <50°F

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from to

at (location) on

(date & time) and that the statements in this block are correct.

Disposition of Sample . Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)

I (we) certify that this sample was transferred from to

at (location) on

(date & time) and that the statements in this block are correct.

Disposition of Sample . Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)

RECEIVED
JAN 02 1985
GROUND WATER HAZARDOUS WASTE BUREAU

ANALYSES REQUESTED

LAB. NO. 1069

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN
X		ALIPHATIC HYDROCARBON SCREEN *
	X	AROMATIC HYDROCARBON SCREEN
		HALOGENATED HYDROCARBON SCREEN
		GAS CHROMATOGRAPH/MASS SPECTROMETER
		SPECIFIC COMPOUNDS
		search for contamination of waste motor oil / benzene-based solvent.

QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBONS
		CHLORINATED HYDROCARBON PESTICIDES
		CHLOROPHENOXY ACID HERBICIDES
		HYDROCARBON FUEL SCREEN
		ORGANOPHOSPHATE PESTICIDES
		POLYCHLORINATED BIPHENYLS (PCB's)
		POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS
		-

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
		* DETECTION LIMIT	1 ug/l

REMARKS: No GC/MS purgeables detected.

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s) Broken by _____ date _____.

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis 12/3/84. Analysts signature J Ashby

Icertify that I have reviewed and concur with the analytical results for this sample and with the statemenrs in this block. Reviewers Signature: K Meyerhen

REPORT TO: Morgan/Sares
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER WC 5645
DATE RECEIVED 11/30/84
DATE REPORTED CO 12/22/85
Initials
SLD USER CODE NUMBER 59500

Well Location Address Hydrotest, Hobbs NM

Point of Collection Hydrotest, ~~off~~ New Well

Well Owner/User Hydrotest

Number of People Drinking Water from Well ?

Collected 11/29/84 (Date) 0955 (Time)

By Morgan/Sares (Name) EID (Agency)

Well Depth —

Water Level —

Taste? Odor? Color? Collectors Remarks

pH 6.53

Conductivity (Uncorrected) 1,300 umho/cm

Temperature 15°C °C

Conductivity at 25°C umho/cm

PROJECT: HD 9.43

From ____, A-H_2SO_4 Sample:

- ☐ Nitrate-N^+ Nitrite-N ____ mg/l ____
- ☐ Ammonia-N ____ mg/l ____
- ☐ Chemical oxygen demand ____ mg/l ____
- ☐ ____ ____ ____

From ____, A-HNO_3 Sample:

- ☐ ICAP Scan
- ☐ Metals by AA (Specify)

From F, NA Sample:

			Date Analyzed
☑	Calcium	123 mg/l	1/16
☑	Potassium	4.68 mg/l	12/17
☑	Magnesium	39.9 mg/l	1/16
☑	Sodium	133 mg/l	12/17
☑	Bicarbonate	269.6 mg/l	1/14
☑	Chloride	378.0 mg/l	1/17
☑	Sulfate	69.9 mg/l	1/4
☑	Total Solids	958 mg/l	1/2
☐	____		

RECEIVED
JAN 24 1985
GROUND WATER/HAZARDOUS WASTE BUREAU

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

- NF: Whole sample (no filtration).
- F: Filtered in field with 0.45u membrane filter 8411290955
- A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
- A-HNO_3: Acidified with 5ml conc HNO_3/l
- NA: No acid added

new well

	reported (mg/l)	meq/l	
Ca	123	6.14	
K	4.68	0.19	
Mg	39.9	3.28	
Na	133	5.78	
			15.39
HCO_3	269.6	4.42	
Cl	378.	10.66	
SO_4	69.9	1.46	16.54

rep. TDS: 958

sum of ions:

REPORT TO: Morgan/Sares
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER HM 1533
DATE RECEIVED 11/30/84
DATE REPORTED 1/8/85 mf (Initials)
SLD USER CODE/NUMBER 85500

Well Location Address Hydro test, Hobbs, NM

JAN 14 1985
GROUND WATER/HAZARDOUS WASTE BUREAU

Point of Collection Hydro test New Well

Well Owner/User Hydrotest

Number of People Drinking Water from Well ?

Collected 11/28/84 (Date) 0956 (Time)

By Morgan/Sares (Name) EID (Agency)

Well Depth —

Water Level —

Taste? Odor? Color? Collectors Remarks

pH 6.53

Conductivity (Uncorrected) 1,300 umho/cm

Temperature 15°C °C

Conductivity at 25°C ____ umho/cm

PROJECT:

From ____, A-H_2SO_4 Sample:

- ☐ Nitrate-N^+ Nitrite-N ____ mg/l ____
- ☐ Ammonia-N ____ mg/l ____
- ☐ Chemical oxygen demand ____ mg/l ____
- ☐ ____ ____ ____

From F, A-HNO_3 Sample:

- ☑ ICAP Scan
- ☐ Metals by AA (Specify)

From ____, NA Sample:

		Date Analyzed
☐ Calcium	____ mg/l	____
☐ Potassium	____ mg/l	____
☐ Magnesium	____ mg/l	____
☐ Sodium	____ mg/l	____
☐ Bicarbonate	____ mg/l	____
☐ Chloride	____ mg/l	____
☐ Sulfate	____ mg/l	____
☐ Total Solids	____ mg/l	____
☐ ____		____

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

NF: Whole sample (no filtration).
F: Filtered in field with 0.45u membrane filter 8411290956
A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
A-HNO_3: Acidified with 5ml conc HNO_3/l
NA: No acid added

ICAP -SCREEN

Lab Number: HM # 1533

Date Submitted: 11/30/84

By: Morgan / Sares

Sample Code: New Well Hydro test, Hobbs N.M.

Date Reported: 1/8/85

By: MJ

Determination	Concentration (µg/ml)
Aluminum	<0.10
Barium	0.13
Beryllium	<0.10
Boron	0.24
Cadmium	<0.10
Calcium	150.
Chromium	<0.10
Cobalt	<0.10
Copper	<0.10
Iron	<0.10
Lead	<0.10
Magnesium	26.
Manganese	<0.05
Molybdenum	<0.10
Nickel	<0.10
Silicon	25.
Silver	<0.10
Strontium	1.4
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	<0.10

84-1070 -C

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: PAIGE MORGAN
BUREAU: Ground Water / Haz Waste

LABORATORY 11/30/84
LAB NUMBER OR 1070 A, B.
59500
SLD Users Code No.

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. Hydrotest - New Well

City & County Hobbs, Lea County

Collected (date & time) 11/29/84 9:54 a.m. By (name) Paige Morgan

pH= 6.53; Conductivity= 1300 umho/cm at 15 °C; Chlorine Residual= _____

Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____

Sampling Location, Methods & Remarks (i.e. odors etc.)

pumped well ± 10 minutes

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Grant Morgan

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory hand-carried.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen 841129084; duplicate _____; triplicate _____; blank(s) _____,
and _____ amber glass jug(s) with teflon-lined cap(s) identified as _____,
and _____ other container(s) (describe) _____ identified as _____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at ~~room~~ ambient temperature ~~(~20°C)~~ < 50°F

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

RECEIVED
JAN 02 1985
GROUND WATER/HAZARDOUS WASTE BUREAU

ANALYSES REQUESTED LAB. No 1070

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRE. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
X		ALIPHATIC HYDROCARBON SCREEN *			ALIPHATIC HYDROCARBONS
	X	AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
		search for oil/~~gas~~ benzene-based solvent contamination			

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
		* DETECTION LIMIT	1 μg/l

REMARKS: No GC/MS purgeable detected.

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s) Broken by ——— date ———.
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis 12/3/84. Analysts signature [signature]
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: R Meyerhen

STATE OF NEW MEXICO
HEALTH ENVIRONMENT Department

MEMORANDUM

DATE: 11/9/84

TO: file

FROM: Patsy Morgan

SUBJECT: Hydro-Test response to my letter of 10/30/84

On 11/5, Darrell Deming called to discuss cleanup of the rat-holes - proposed pumping out the remaining fluids and acid-treating the holes to clean them. I said we'd probably want to come up with a plan to clean up fluids from the adjacent formation, too. I suggested a meeting at the Hydro-Test facility Thursday, Nov. 29 to discuss clean-up factors and possibly to pump their on-site well for longer than was done for Hazardous Waste's sample collection, to collect samples for organic analysis to see if anything has reached that deep. He agreed; said he'd be talking to the City Engineer on 11/6 or 7 about hooking up to the city sewer system.

TONEY ANAYA
GOVERNOR

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO
ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020
Denise Fort, Director

October 30, 1984

Mr. Darrell Deming
Hydrostatic Pipe Service, Inc.
P.O. Box 2428
Hobbs, NM 88240

Dear Mr. Deming:

The file on the two disposal wells at your truck maintenance-truck washing facility at 3030 West Marland ("Hydro-Test") has been forwarded to the Ground Water Section by the Hazardous Waste Section of EID, for review from the standpoint of the Water Quality Control Commission regulations. A copy of these regulations is enclosed.

Under Section 5-101.B.3 of the WQCC regulations, all use of these disposal wells after December 20, 1982, is illegal - even for disposal of the fluids from your ice machine and water cooler. In addition, you have violated the regulations in failing to notify the EID of the proposed use of these wells (Section 1-201, in effect since the late 1960s), and in failing to have an approved discharge plan for any disposal well installed since 1977 (section 3-104).

This Division hopes to obtain your voluntary compliance in mitigating the environmental damage that has resulted from disposal of solvents and other waste into these wells. Please contact Ms. Paige Morgan at the above address and telephone number, ext. 285, for assistance in developing a plan to remove the fluids that remain in these wells, clean up the adjacent formation, and plug the wells.

You are also in violation of Section 1-201 and 3-104 of the WQCC regulations by neglecting to notify EID when you were planning to install a septic system for your truck washing facility, and subsequently neglecting to prepare and obtain approval for a discharge plan for the septic system prior to putting it in use. A form is enclosed to assist you in beginning the process of applying for approval of your septic system. If you have any questions on the enclosed material or on the contents of this letter, please do not hesitate to write or call.

Sincerely,

Anthony Drypolcher
Chief, Ground Water/Hazardous
Waste Bureau

AD:PM:jba

Enclosure

cc: John Guinn, EID District IV, Roswell
Duff Westbrook, EID Legal Bureau, Santa Fe
Dennis McQuillan, EID Ground Water Surveillance Section, Santa Fe
Peter Pache, EID Hazardous Waste Section, Santa Fe

EID BUCKSLIP

CHECK ONE:

- [X] LETTER TO Hydro-Test
  for Drypolcher's signature
- [ ] MEMO TO _____
- [ ] PRESS RELEASE
- [ ] OTHER

SUBJECT: clean-up of rat-holes and re-abandonment ~~for discharge plan for septic tank~~ & load field

DRAFTED BY: Lacy Morgan 10/25/84 (Date)

CONCURRENCES:

NAME:		INITIAL	DATE REC'D	DATE APPROVED
MAXINE GOAD	Sect. Mgr.	MG	10/29/84	10/30/84
A. DRYPOLCHER	Bur. Chief	AD	10/30/84	—
~~Richard Holland~~	Dep. Dir.			
~~Steven Asher~~	Director			

FINAL DECISION NEEDED BY _____ (date) BECAUSE _____

COMMENTS BY DRAFTER OR REVIEWER(S):

The Hydro-Test situation was investigated by Hazardous Waste and will not be followed up by them because the materials involved are not on the RCRA list; this letter tells Hydro-Test of their obligations under UIC and Part 3.

TONEY ANAYA
GOVERNOR

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO
ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020
DENISE FORT, DIRECTOR

CERTIFIED MAIL -- RETURN RECEIPT REQUESTED

17 October 1984

Mr. Darrell Deming
Hydrostatic Pipe Service, Inc.
P.O. Box 2428
Hobbs, New Mexico 88240

Dear Mr. Deming:

On August 16 and 17, 1984, Hydrostatic Pipe Service, Inc. (HydroTest), located at 3030 West Marland in Hobbs, New Mexico, was inspected by the New Mexico Environmental Improvement Division (EID), Hazardous Waste Section. Samples were collected from the two disposal holes at HydroTest and from one of the wells. Results of the analyses of those samples are enclosed.

No violations of the New Mexico Hazardous Waste Management Regulations (HWMR-2) were apparent at the time of the inspection. However, there may be violations of the New Mexico Water Quality Control Commission Regulations; your file is being forwarded to the Ground Water Section of EID for further review.

During our inspection, it was noted that you use a hydrocarbon solvent, referred to as "barsol". This solvent is ignitable. If you discard or intend to discard the solvent as is, its disposal would be subject to the Hazardous Waste Management Regulations (HWMR-2). According to information obtained during our inspection, the solvent is discarded only after being mixed with water and detergents (while washing trucks), so that it no longer is ignitable, and therefore not regulated under HWMR-2. Please be aware that storage or disposal of waste "barsol" which is still ignitable would be subject to our regulations.

There are many solvents commonly used by industry which are subject to HWMR-2 when they are to be discarded. In many cases, these solvents are regulated because of their toxicity, which would not be altered by mixture with water. If you intend to use any solvents besides barsol, we request that you contact this Section to determine whether our regulations would apply to the solvent(s).

The attached sample results show that the waters in your disposal holes are contaminated with a number of petroleum-related chemicals and with lead. The continual discharge of water from your ice machine and refrigerator provides a mechanism for these contaminants to be carried into the ground water. Eventually, the contaminants may show up in the wells which provide your or your neighbor's water supply. We urge you to immediately cease all discharges to the disposal holes. Further actions may be required by the Ground Water Section.

Thank you for your cooperation during our inspection. If you have any questions regarding this letter, please contact Ms. Ann Claassen at (505) 984-0020, extension 340, or at the letterhead address.

Sincerely,

Peter H. Pache
Program Manager
Hazardous Waste Section

PP:AC

enclosures

xc: Louis Rose, EID Legal Bureau
✓Paige Grant-Morgan, EID Ground Water Section
Dennis McQuillan, EID Ground Water Surveillance
Susan Stark, EPA Region VI

HEALTH & ENVIRONMENT

TONEY ANAYA
GOVERNOR

STATE OF NEW MEXICO
ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020
DENISE FORT, DIRECTOR

CONFIDENTIAL—SUBJECT TO ATTORNEY/CLIENT PRIVILEDGE

MEMORANDUM

TO: LOUIS ROSE, ATTORNEY, LEGAL SERVICES BUREAU

THRU: CLIFF HAWLEY, ACTING CHIEF, GROUND WATER/HAZARDOUS WASTE BUREAU

THRU: PETER H. PACHE, PROGRAM MANAGER, HAZARDOUS WASTE SECTION

FROM: ANN CLAASSEN, WATER RESOURCE SPECIALIST, HAZARDOUS WASTE SECTION

DATE: 4 September, 1984

SUBJECT: HYDRO-TEST INSPECTION

In May, 1984, Dennis McQuillan and Pat Longmire took samples from a "rathole" at Hydro-Test in Hobbs. The sample results showed detectable levels of some organic constituents subject to regulation under the WQCC, and possibly subject to regulation under the Hazardous Waste regs. On August 13 and 14, 1984, Greg Mello and I visited Hydro-Test in Hobbs to further investigate the operation and take more samples.

We arrived about 3:30 pm on the 13th and spent about an hour talking to John Deming and walking around the facility. The next morning we returned and took samples. At about noon, we talked some with Darrell Deming (the owner), his wife, John Deming (his son), and an employee, Paul Dempsey. The Demings were cooperative and answered all our questions. They claimed to have almost no records to substantiate what they said; the two exceptions were a copy of their SEO well record and an invoice for some solvent (described below).

The following summary is organized into six sections:

-General Description of the Operation
-Disposal Facilities
-Wastes
-Water Wells
-Past Land Use
-Relation to the Regulations

GENERAL DESCRIPTION OF THE OPERATION

Hydrostatic Pipe Service, Inc. (Hydro-Test) is located at 3030 West Marland (NE corner of W. Marland and West County Road) in Hobbs, New Mexico (see Figure 1). It is owned and operated by Darrell Deming. Mr. Deming's wife and two sons also participate in running the company; his son John Deming, in particular, appears to have major management responsibilities.

Hydro-Test provides pressure testing of pipes and tubing used in oil field operations. Water is pumped into the pipe, either downhole or on a rack, from a Hydro-Test truck. At the conclusion of the test the water is returned to the truck; it may carry petroleum contamination from the pipes.

Figure 2 is a sketch of the Hydro-Test facility. It was built about 15 years ago, with the back (northern) part being added in 1982. Operations at the facility consist primarily of truck maintenance, including fueling, changing oil and washing the trucks. Fuel is provided from two underground gasoline tanks and an above-ground diesel tank. The trucks are washed with water, soap and a solvent. Water is provided from an on-site well; in the winter brine is used (since it freezes at a lower temperature). Solvent is stored in a tank outside the shop area. The truck bays and shop were quite clean and neat at the time of our inspection.

DISPOSAL FACILITIES

Disposal facilities at Hydro-Test consist of two "ratholes" and a septic system. According to John Deming, the **first rathole** was drilled 8 or 9 years ago, is 18 to 24 inches in diameter, and 20 feet in depth. He claimed no ground water was encountered when the hole was drilled. (According to our informant, the hole was drilled between 1975 and 1978, is 25 inches in diameter, and 36 feet deep, penetrating into the aquifer.) The hole is not lined.

At present, a thick sludge is encountered at a depth of 9 feet in the hole. In about 1981 the hole began to have problems with overflowing, presumeably due to this sludge clogging. A streamer of oil-stained soil running away from the hole is evidence of this overflowing. In 1981, the Demings had a **second rathole** drilled to receive overflow from the first. According to John Deming, this hole is also about 20 feet deep; we measured the depth of the hole as 20 feet (assuming no sludge layer in that hole was impeding the bailer). The hole appeared to be lined with steel or iron, at least for the first several feet near the surface.

We discovered the second rathole by asking John Deming about a silver-painted drum stuck in the ground near the first hole. He initially said that he didn't know what it was, but when Greg removed the covers, Deming acknowledged it was another disposal hole, receiving overflow from the first hole.

When the new shop area was built in 1982, a **septic system** was installed (October 1982). Roelf Ruffner of the Hobbs EID office provided information on the septic system. He obtained this information from the installer, Trusty's Sales and Construction. Influent to the system goes first into an 1100 gallon grease trap, then an 1100 gallon sand trap, then an 1100 gallon septic tank, and finally into a seepage

pit that is 20' x 20' x 10'. The grease trap and sand trap are pumped out every three months. Cleanout pipes for the traps extend a foot or two above the surface. No permit was obtained for this system.

WASTES

Wastes from Hydro-Test include oil that collects in the truck water tanks, used motor oil, sewage, condensate from the ice machine and water cooler, and truck washings.

The oil that collects in the truck water tanks is seldom or never cleaned out, according to John Deming. He said any that was cleaned out would be disposed of on the ground.

Used motor oil is collected in a tank. The Demings claim it is all burned in a heater. From the appearance of the oily phase in the ratholes, it seems that some motor oil may have been discharged to these holes at some time.

Sewage is discharged to the septic system. I asked John Deming what they did with their sewage before that system was built; he claimed they didn't have a bathroom before building the new addition.

Water from the ice machine and water cooler is discharged to the first rathole and overflows into the second. This has the effect of maintaining a constant head in both holes — both were full to within a few feet of the surface. Greg and I observed water running into the second hole for most of the period we were sampling it (about a half-hour).

Truck washings are collected in a sump which drains into the septic system. The washings consist of water (or brine), soap, oil and dirt washed from the trucks, and a solvent. This solvent was referred to as "barsol" by John Deming. He said they use about 500 gallons a year of the barsol. He showed us an invoice for 393 gallons of "solvent" from Blocker Oil Co. This was the only invoice from Blocker for 1984, but Hydro-Test may have also obtained solvent from other suppliers.

We went by Blocker Oil and obtained a specification sheet on the "solvent", which is Shell Oil's Mineral Spirit 135. Table 1 summarizes data on the solvent. We confirmed with Blocker that Mineral Spirit 135 is the same thing as "barsol" and "solvent", and that it is the only solvent sold by Blocker.

WATER WELLS

The principle well at Hydro-Test is located next to the brine tank. It is registered with the State Engineer's Office as file number L-7461. The SEO well record shows that it was drilled in December 1975 to a depth of 120 feet, and is screened from 90 to 120 feet. SEO requires that the well be metered. Information provided by Johnny Hernandez of the Roswell SEO District Office gives the average diversion from the well as 1.83 acre-feet per year from 1979 through 1983.

The Demings have put both an activated carbon filter and a water softener on the well. In addition, Mr. Deming showed us an activated carbon filter he had purchased to put on the tap. The Demings complained about the taste of the water, which apparently is the reason for the filters. They also indicated concern about hydrocarbon contamination of wells in Hobbs; perhaps this was also a reason for the filters.

There were two older wells in existence when the Demings bought the property. The Hydro-Test office is built over one of the wells; the other, which is by an old building on the property, is still in useable condition. The Demings said that the water from this older well tastes better than their new well. I asked why they drilled the new well; they said the old one didn't have enough yield. The old well is rarely used, according to John Deming. The pump, however, is kept on -- we were able to obtain a sample simply by turning on the faucet.

I've found an SEO record which probably is for one of these older wells (L-2555). That record is for a well drilled in 1954 to a depth of 116 feet, with perforations from 85 to 113 feet. The depth to water upon completion was 34 feet.

PAST LAND USE

The Demings informed us that a gas station used to be on the site where Hydro-Test now is. The dates of operation were approximately 1940 to 1959. They thought that the station probably did not have underground tanks.

Darrell Deming mentioned that the northern part of the property, where the 1982 addition and ratholes are, used to be a virtual lake. This is plausible, since the area is underlain by a very hard caliche layer. They and put fill in the area when they built their addition.

RELATION TO THE REGULATIONS

When asked whether Hydro-Test had provided any kind of notification to EID about their ratholes, septic system or other activities, John Deming replied in the negative.

Hazardous Waste Regulations

The only substance identified at Hydro-Test which could fall under the Hazardous Waste Management Regulations (HWMR-2) is the solvent used for truck washing. It is subject to regulation at the time it is discarded, or intended to be discarded, as D001 -- waste showing the characteristic of ignitability. If, however, the waste solvent is mixed with other substances, such that it no longer shows a characteristic of ignitibility, then the mixture is not subject to HWMR-2. It appears that Hydro-Test discards the solvent only in the process of washing the trucks. Thus the solvent is mixed with water and soap; the mixture most probably does not show the characteristic of ignitibility.

Hydro-Test would also be subject to HMWR-2 if they have discarded, since Nov 11, 1980, any listed wastes, such as chlorinated hydrocarbons. In this case, the mixture

rule would not exclude the wastes from regulation, since such solvents are listed because of their inherent toxicity, not because of a characteristic such as ignitibility. Our observations and John Deming's comments indicate that Hydro-Test does not utilize such solvents; however, the sample Dennis McQuillan and Pat Longmire took in May shows detectable levels of 1,2-dichloroethane (EDC), benzene, ethylbenzene, xylene and toluene, all of which are listed wastes (except benzene). The benzenes, xylene and toluene might be from petroleum, but the EDC would have to have come from use of a solvent containing that constituent. If the samples from our inspection confirm the presence of EDC or other listed wastes, followup investigation may be warranted.

WQCC Regulations

It appears that Hydro-Test began discharging before 1977: according to John Deming, the first rathole was drilled 8 to 9 years ago (1975 or 1976); according to the informant, it was drilled between 1975 and 1978. Therefore they did not have to notify EID regarding this discharge.

The second rathole was drilled in 1981; the question is whether this constitutes a new discharge, since the new hole is simply receiving overflow from the old hole. If it is a new discharge, then Hydro-Test probably has violated Parts III and V of the WQCC regs. The new hole receives overflow from the old hole, which in turn received truck washings until October 1982. Based on the first round of sampling and Table 1, those truck washings contained constituents listed in Section 3-103.

If construction of the new rathole does not constitute a new discharge, EID is restricted to requesting a discharge plan. But it is not clear to me whether we can do so at this point, since their discharge at this time consists only of water from the ice machine and water cooler (and thus meets the ground water standards). On the other hand, that discharge is creating a driving force which can carry contaminants from the holes into the ground water. It is not obvious from my reading of Section 3-105.A. whether this constitutes a discharge regulated by WQCC.

If the septic system were to receive more than 2000 gallons per day, its use would be in violation of the WQCC regs. According to the metering done for SEO, the diversion of water from their well since the septic tank was put in has been about 1.78 acre feet per year. This is equivalent to 1590 gallons per day. Unless their use of brine and the old well amounts to 0.5 acre-feet per year and all water diverted goes into the septic system (which is unlikely), they are discharging less than 2000 gallons per day to the septic system.

Liquid Waste Regulations

Under the Liquid Waste regulations, Hydro-Test should have obtained a permit for their septic system. They did not do so, but under Division policy, no enforcement action is taken after the first year, unless it is shown that the system is creating environmental or public health problems (as per Section 201.D.). Whether the Hydro-Test septic system is contaminating the ground water depends on the effectiveness of the grease trap and the degree of biodegradation of the effluent constituents. Samples of leachate from the seepage would be needed to help resolve this question.

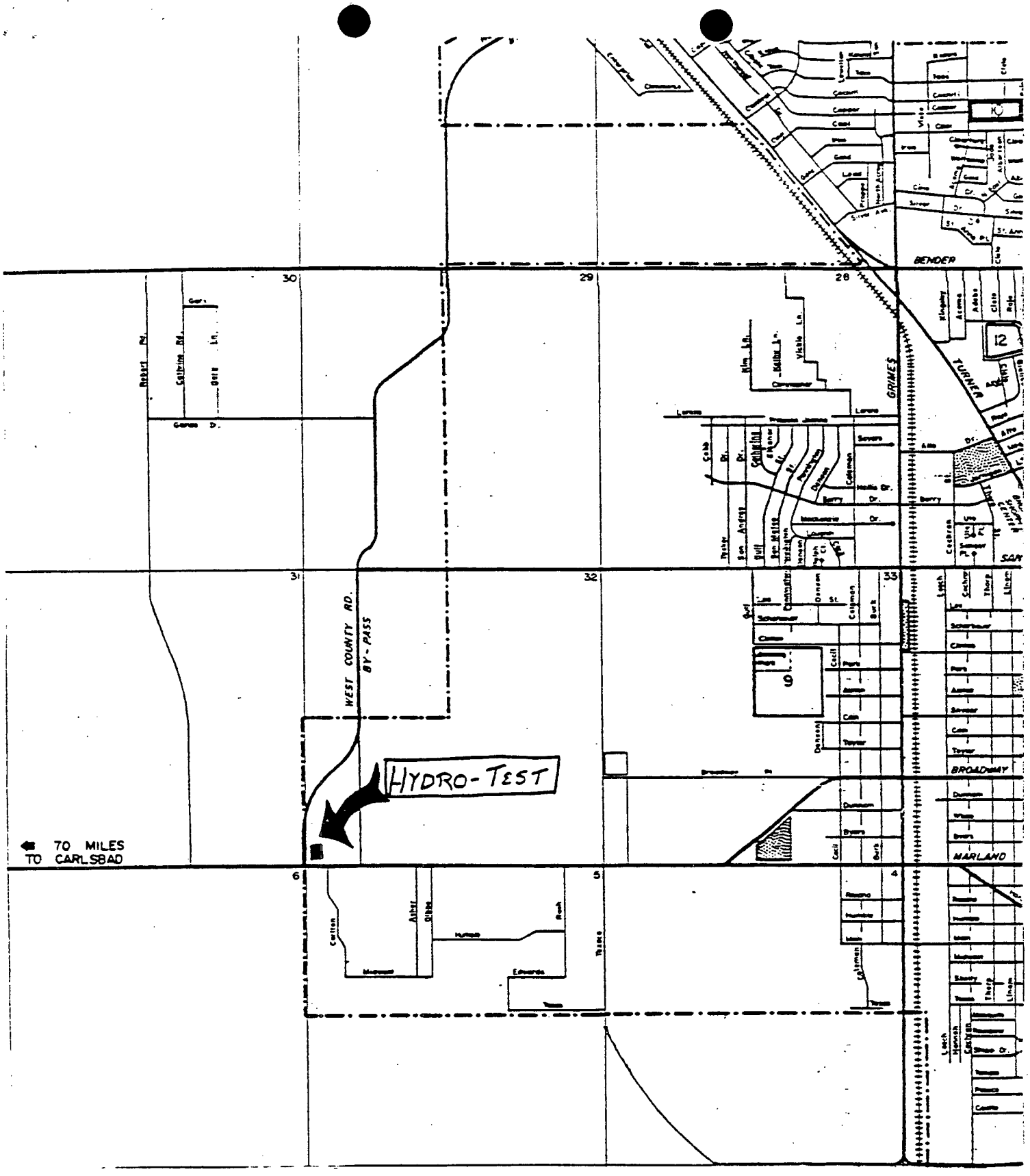


FIGURE 1. Location of Hydro-Test in Hobbs, NM.

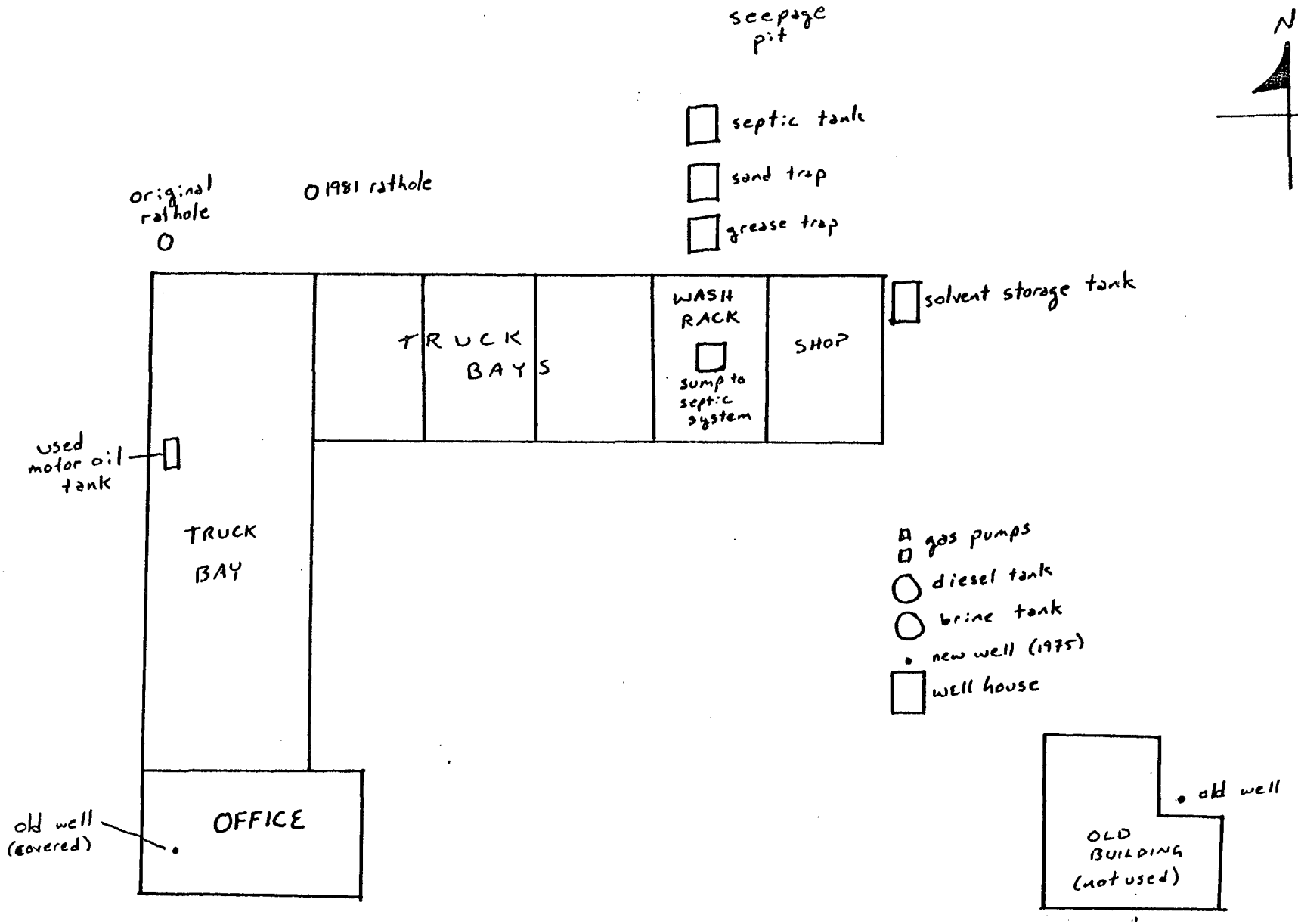


FIGURE 2. Sketch of the Hydro-Test Facilities (not to scale).

TABLE 1. Information on Mineral Spirit 135

Composition		
Paraffins		45 %
Naphthenes		40 %
Aromatics		15 %
ethylbenzene	<0.5 %	
benzene	0.03 ppm	
Olefins		<1 %
Physical Data		
boiling point		315-393 °F
specific gravity		0.78
vapor pressure		0.3 psi @ 100 °F
% volatile by volume		100
solubility in water		negligible
Identifications		
chemical synonym		MS 135
chemical family		hydrocarbon solvent
Shell code		83001
material data safety sheet no.		7,540-4
DOT proper shipping name		petroleum naptha
DOT ID no.		UN 1255
EPA hazardous waste number*		D001
CWA classification (Section 311)		oil

* Only if discarded or intended to be discarded as is.

Source: Shell Material Data Safety Sheet 7,540-4, provided by Bolcker Oil Co., Hobbs, NM.

TONEY ANAYA
GOVERNOR

STATE OF NEW MEXICO
ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020
DENISE FORT, DIRECTOR

SUBJECT TO ATTORNEY-CLIENT PRIVILEDGE -- NOT FOR RELEASE

MEMORANDUM

TO: LOUIS ROSE, ATTORNEY III, LEGAL SERVICES BUREAU

FROM: GREG MELLO, ENVIRONMENTAL SCIENTIST
ANN CLAASSEN, WATER RESOURCE SPECIALIST
HAZARDOUS WASTE SECTION

THRU: PETER PACHE, PROGRAM MANAGER, HAZARDOUS WASTE SECTION

DATE: AUGUST 23, 1984

CONCERNING: APPLICABILITY OF HAZARDOUS WASTE REGULATIONS TO HYDRO-TEST, INC.

The hazardous waste regulations are proably not applicable in the case of Hydro-Test, Inc. Although they use a characteristic waste (ignitable mineral spirits) in their truck maintenance, this material is washed down a sump with water and surfactants and is very unlikely to display the characteristic of ignitability (flash point less than 140°F) by the time it is discharged. The regulations exempt mistures of characteristic wastes and other solid wastes from the category of hazardous wastes, where those mixtures do not display hazardous characteristics (see section 201.A.2.a.(2)(C)). The waste oil they also dispose of is likewise not (currently) a hazardous waste.

Hydro-Test therefore appears to be exempt from all regulation under the New Mexico Hazardous Waste Management Regulations. Final judgement awaits the results of our sampling. If they should indicate that Hydro-Test is using listed wastes not revealed to us during the inspections, further investigation under the Hazardous Waste Act would be warranted.

It appears likely that Hydro-Test has violated parts III and V of the WQCC regulations, and possibly the Liquid Waste Regulations as well. Ann is preparing a memo detailing the results of our inspection and how these regulations might apply to Hydro-Test.

GM/AC/cm

xc: Anthony F. Drypolcher

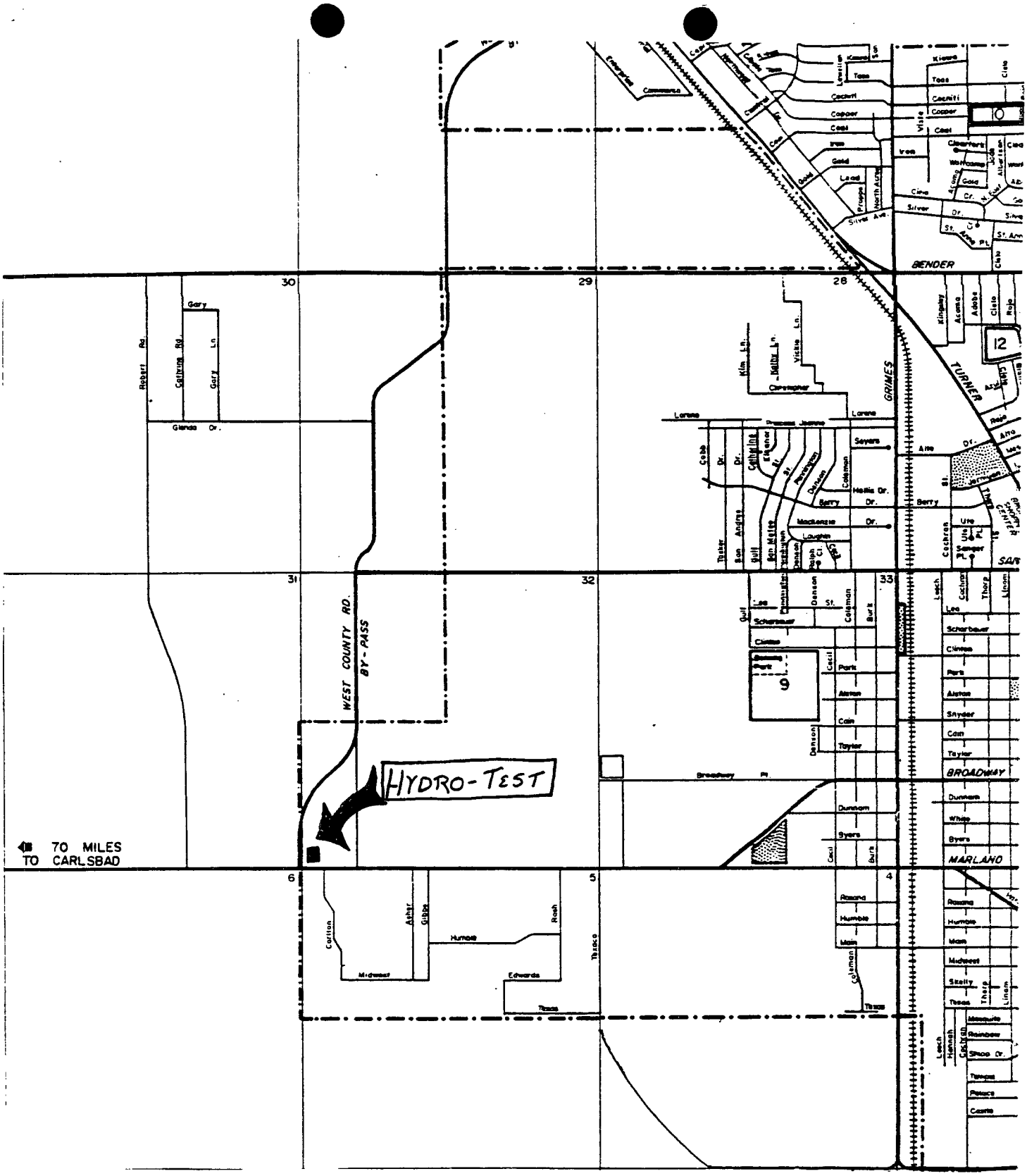


FIGURE 1. Location of Hydro-Test in Hobbs, NM.

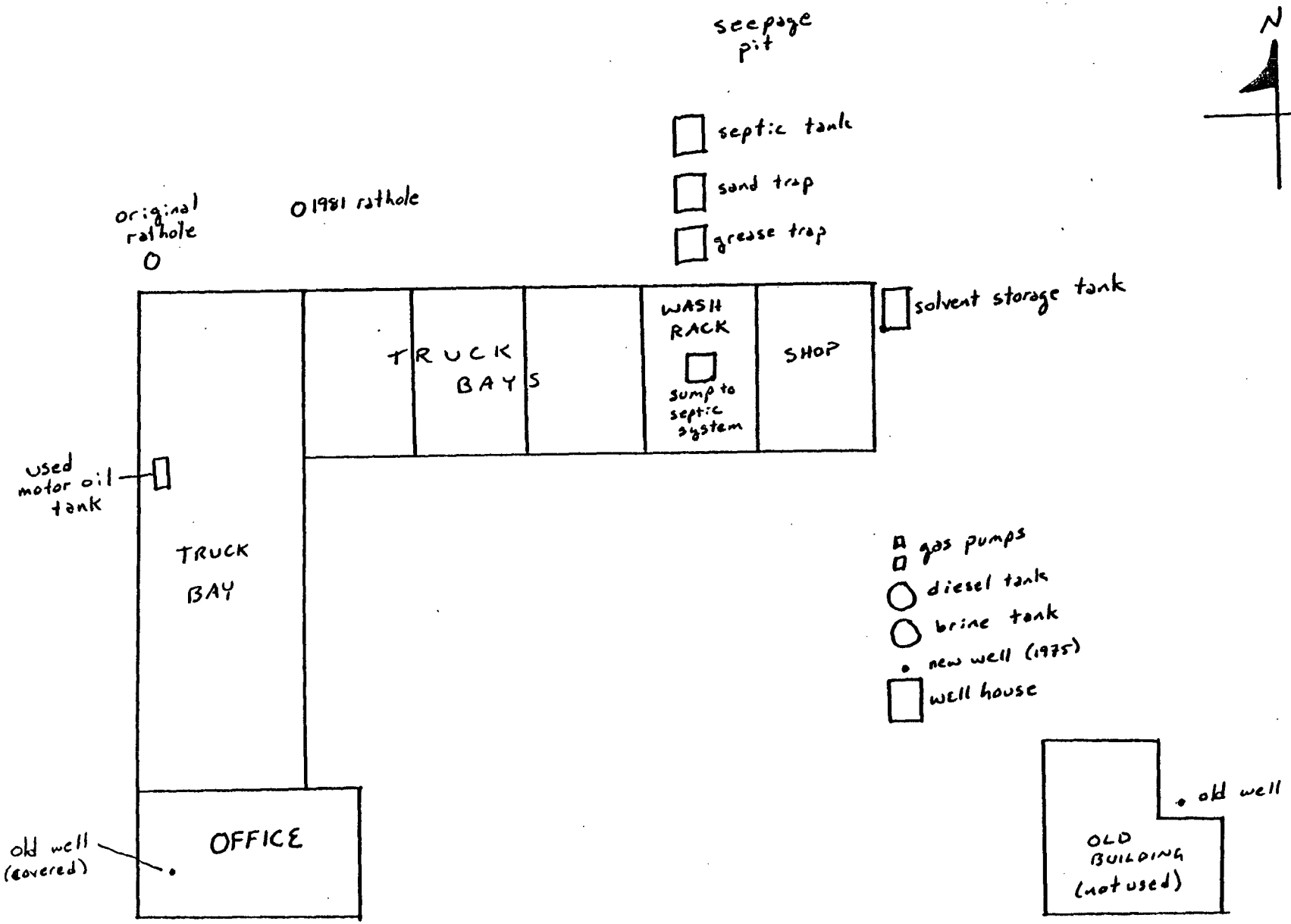
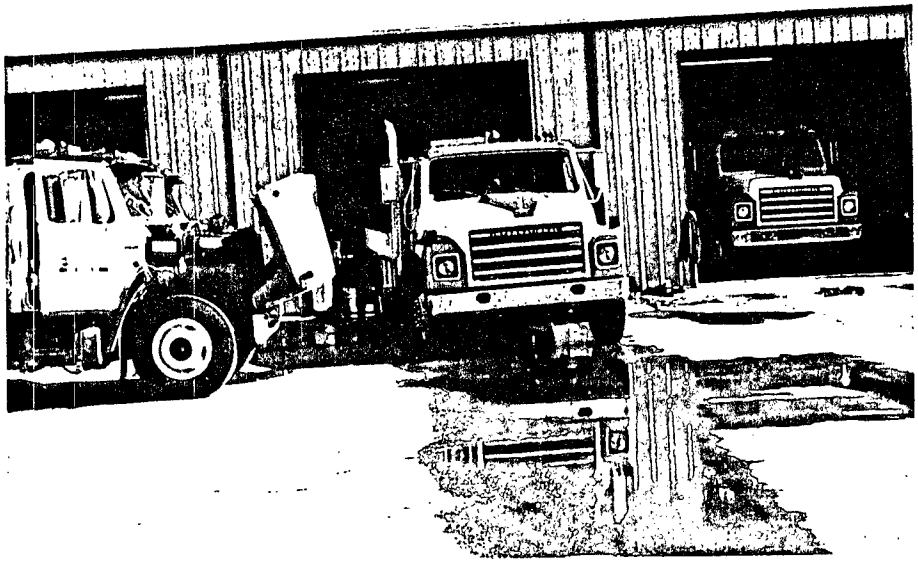
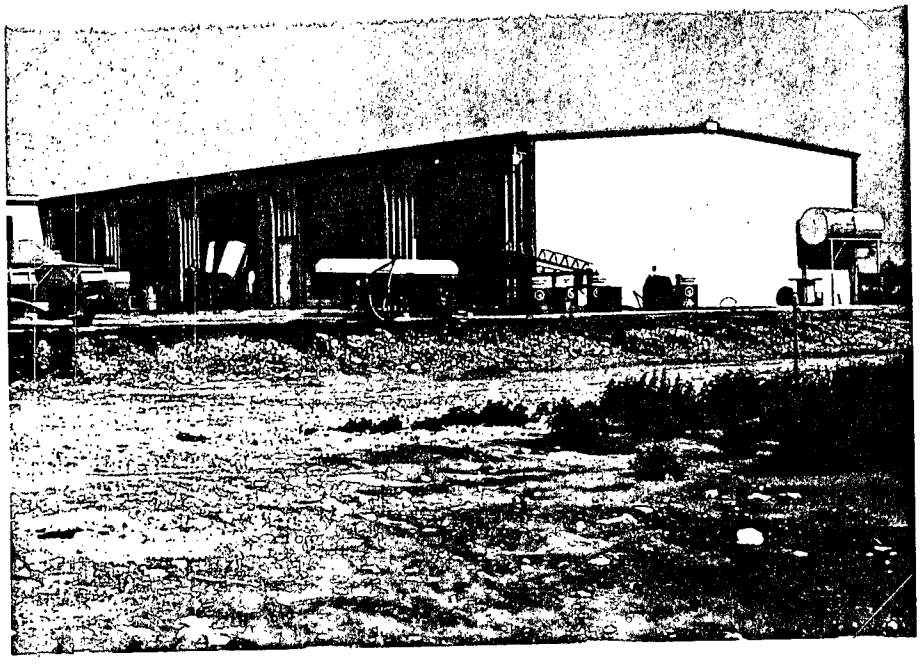


FIGURE 2. Sketch of the Hydro-Test Facilities (not to scale).

Hydro-Test Services 8/13 - 8/14/84
Hobbs, NM



General view of service yard and bays, looking north from within yard.

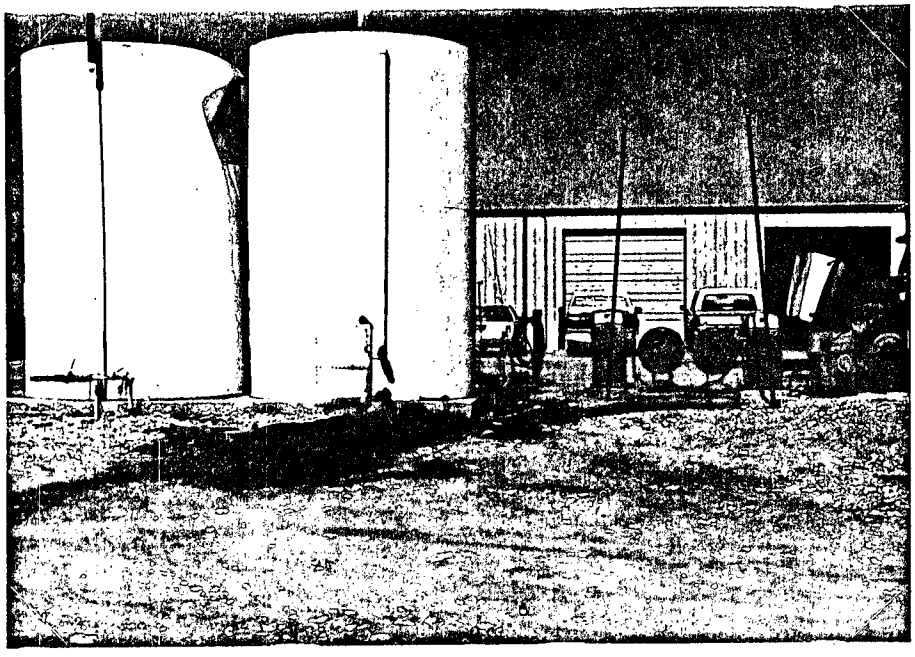


General view of north service bays, looking west by northwest. Silver tank at right is for "Barsol" (Shell Mineral Spirits 135).

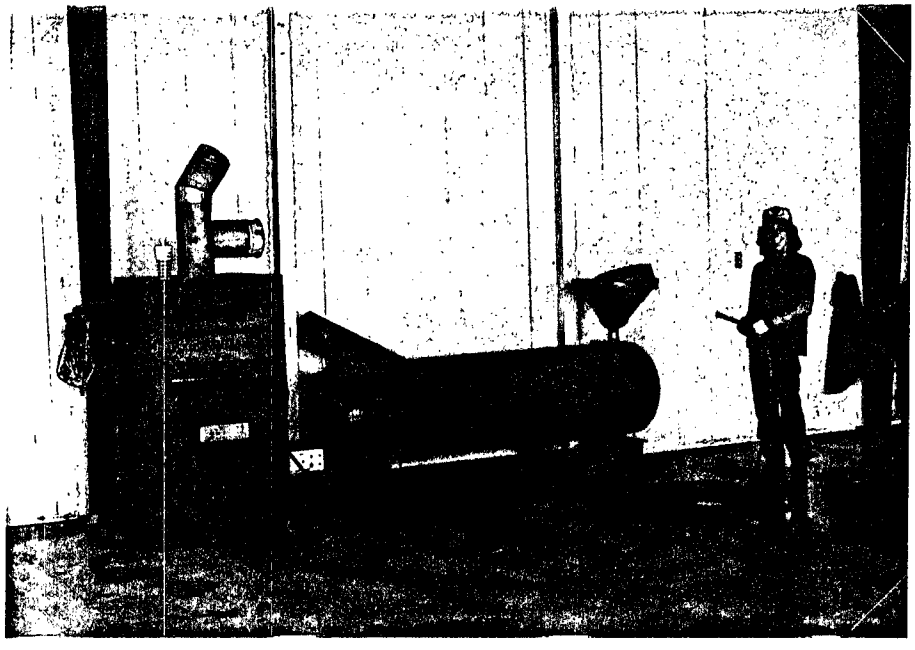
Building and yard are constructed on fill, as can be seen in this picture.

Photos taken 8/14/84 gregory mello

Hydro-Test Services 8/13 - 8/14/84
Hobbs, NM



Looking west at service yard, showing large brine + diesel tanks. Two underground gasoline tanks are on right side of picture, marked by vent pipes, fill pipes (near ground, dark blue), and pumps.



View inside service bay (west) showing container for used motor oil.

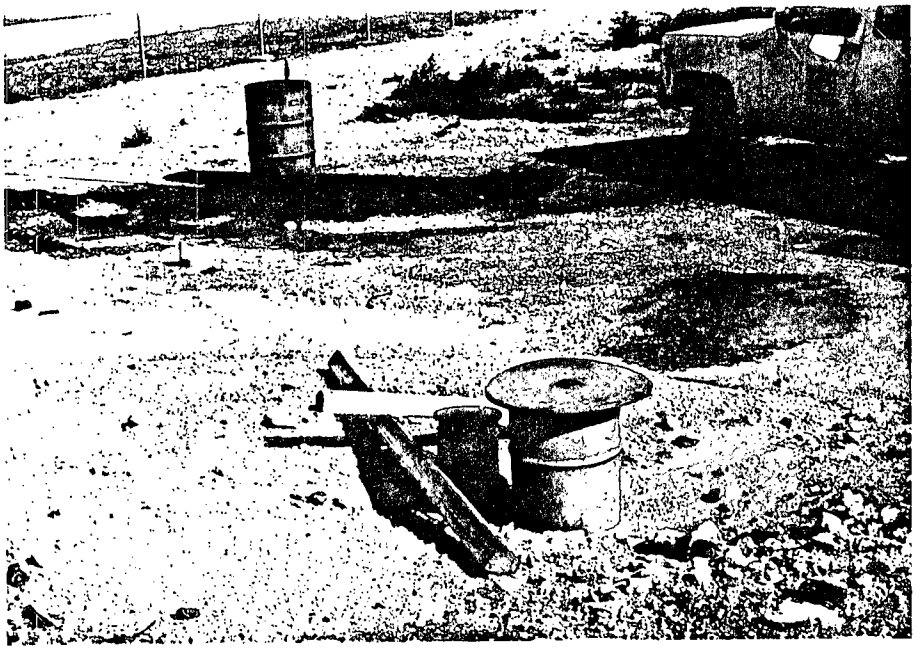
Photos taken 8/14/84 gregory mello

Hydro-Test Services 8/13 - 8/14/84
Hobbs, NM

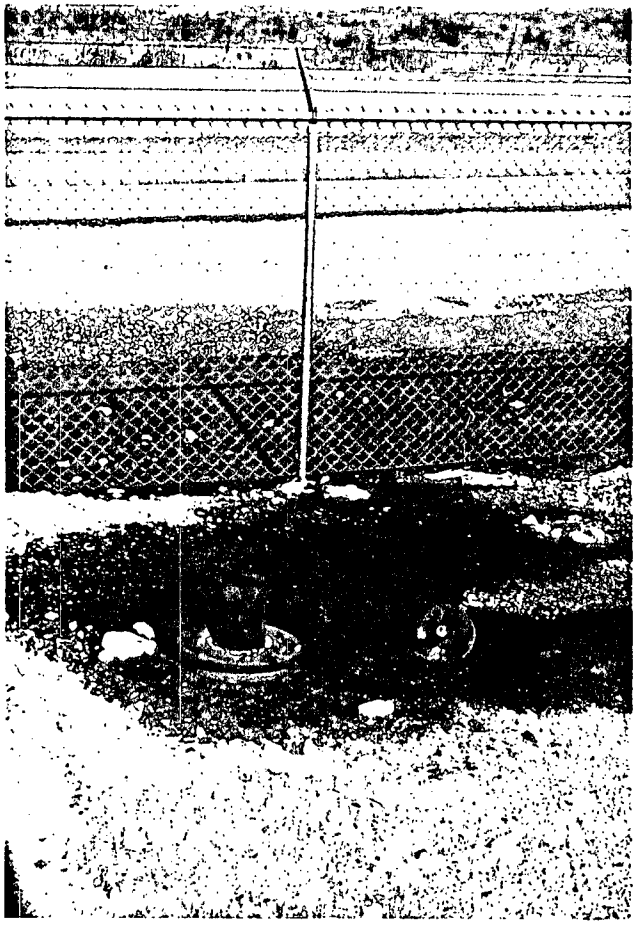
Washing trucks in one of the north bays. Mineral spirits are sometimes used in this operation. Wastewater and spent solvents drain from bay via sump, barely visible beneath truck.

Looking west behind north side of service bays. Area in foreground and left side of picture is fill; County road is beyond fence. In foreground are two septic tanks; the left one runs off picture to the left. Leach pit for these tanks is located to the photographers right (north). Silver drum in left-center of picture is hole #2; dark rectangle near the mound at northwest corner of building is hole #1, covered by a truck axle stub. Dark stain to the left of ELB vehicle is run-off (overflow) from hole #1.

Photos taken 8/14/84 gregory mello



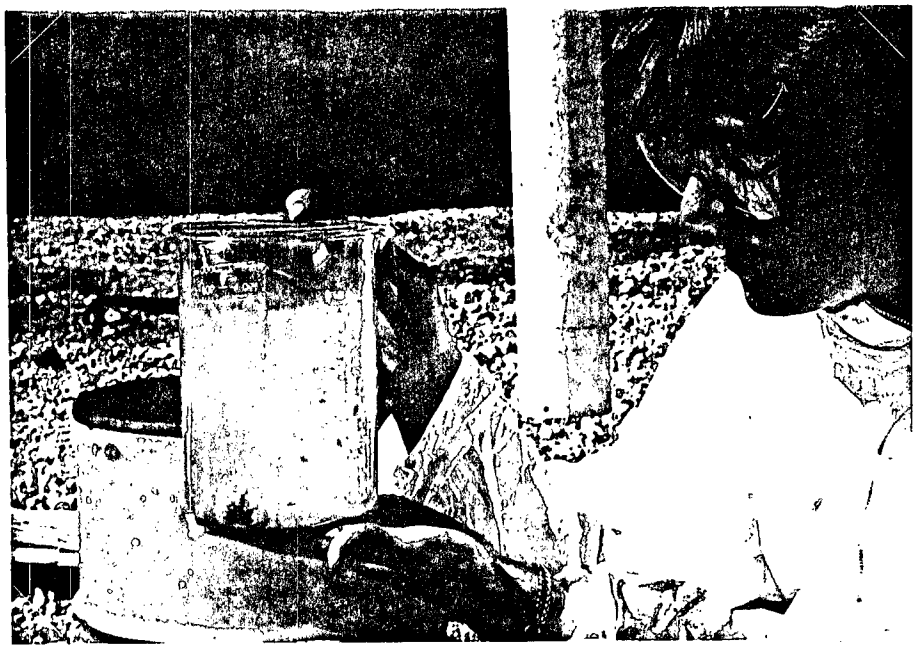
Close-up of hole #2; bailer and spool of line are at left. Note discolored area downslope.



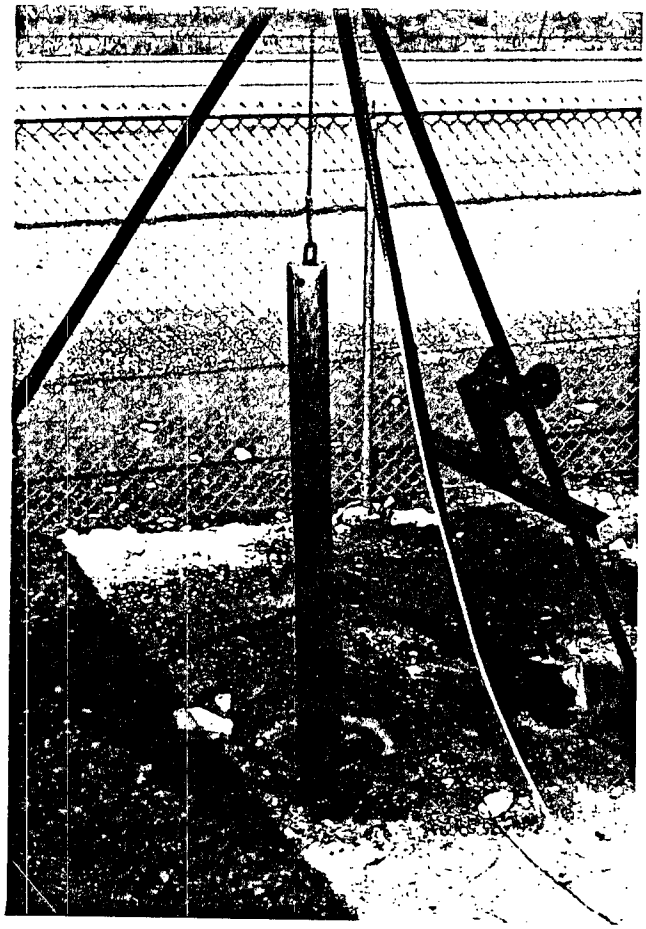
Close-up of hole #1, County road in background.

Sampling equipment at hole #2

Photos taken 8/14/84 Gregory Wells



Water from hole #2, after removing 10 bailer-fulls of water from the hole.

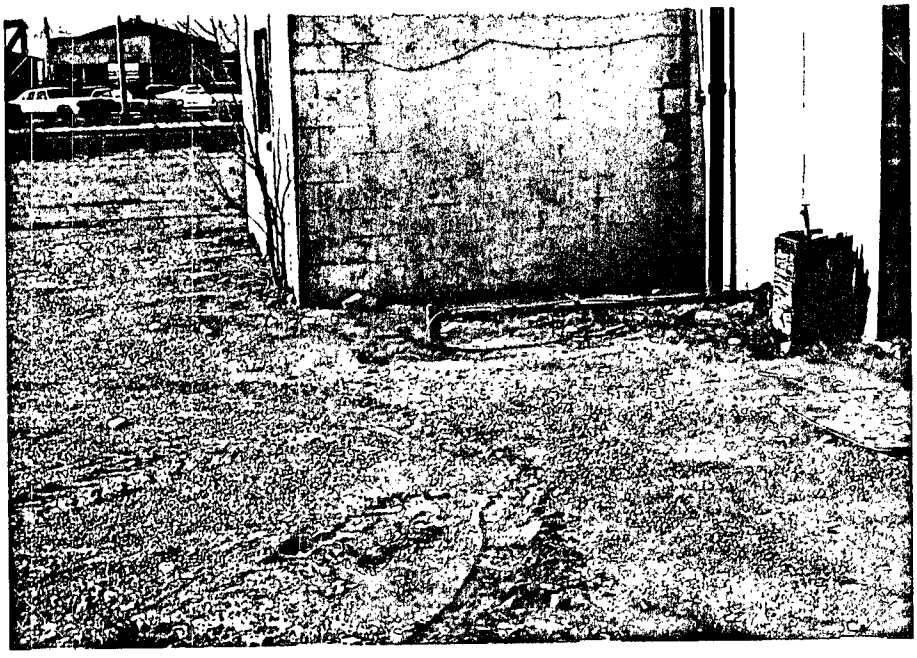


Bailing hole #1; oily material visible on bailer and on ground.

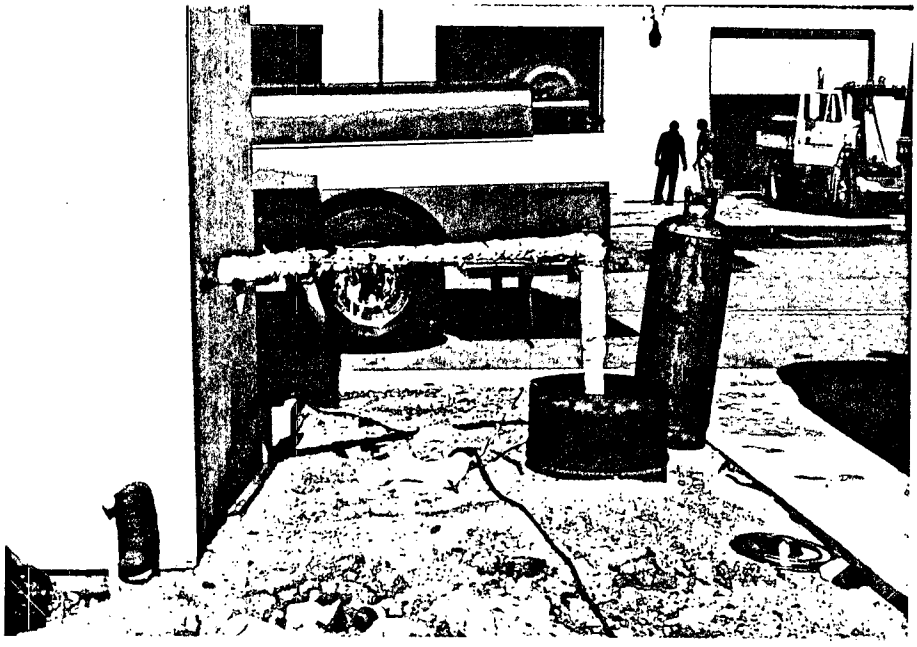
Sample of water from hole #1, note immiscible hydrocarbon layer.

Photos taken 8/14/84 gregory mello

Hydro Test Services 8/13-8/14/94
Hobbs, NM



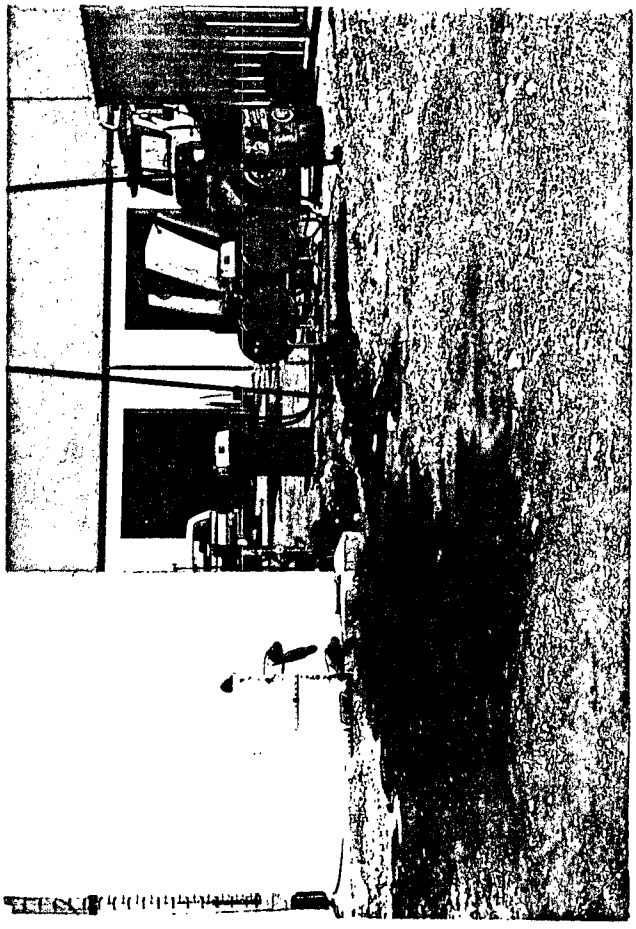
Original water well on property. Note that casing was probably flooded (or may have been flooded) in recent rains that preceded our visit. Drowned rabbits were found in plywood enclosure on right.
Well was pumped for at least five minutes prior to sampling.
Street in background is Midland (view is looking south).



New well on property, at edge of service yard.

Photos taken 8/14/94 - company rep.

Hydro Test Services, 8/13 - 8/14/84 p. 1 of 1
Hobbs, NM
(misc. pictures - duplicates of preceding scenes)



MATERIAL SAFETY DATA SHEET

MSDS NUMBER ▷ 7,540-4 PAGE 1 OF

97002 (1-81)

SECTION I	NAME
PRODUCT ▷	Mineral Spirits 135
CHEMICAL/ SYNONYMS ▷	MS 135
CHEMICAL FAMILY ▷	Hydrocarbon Solvent
SHELL CODE ▷ 83001	C.A.S. NUMBER ▷ 64742-88-7

24 HOUR EMERGENCY ASSISTANCE

SHELL 713-473-9461
CHEMTREC 800-424-9300

HAZARD RATING
LEAST 0 ▷ SLIGHT 1 ▷ MODERATE 2 ▷ HIGH 3 ▷ EXTREME 4

HEALTH	2
FIRE	2
REACTIVITY	0

SECTION II INGREDIENTS

COMPOSITION	%	TOXICITY DATA
Mineral Spirits 135	100	Not Determined
Paraffins	45	
Naphthenes	40	
Aromatics Ethylbenzene ... <0.5% Benzene ~ .03ppm*	15	
Olefins	<1	

*Spot Analysis

SECTION III HEALTH INFORMATION

Acute Toxicity: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness, nausea and loss of consciousness.

Eye Contact: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating.

Skin Contact: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis.

Inhalation: High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes.

Ingestion: Liquid ingestion may result in vomiting; aspiration (breathing in) of liquid into the lungs must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/ hemorrhage.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

None established. Recommend using Stoddard Solvent as a guide:
ACGIH - TLV/TWA = 100ppm
ACGIH - TLV/STEL = 150ppm
OSHA - PEL/TWA - 500ppm

97093 (1-81)

SECTION V — EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water. If persistent irritation occurs, get medical attention.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and do not reuse until laundered. If persistent irritation occurs, get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

INGESTION: DO NOT INDUCE VOMITING even though vomiting may occur. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

NOTE TO PHYSICIAN: Depending upon the amount ingested and retained, as well as the toxicity of the product, gastric lavage should be considered. Keep patient's head below hips to prevent pulmonary aspiration. If comatose, a cuffed endotracheal tube will prevent aspiration. Consult a poison control center.

SECTION VI — PHYSICAL DATA

BOILING POINT (°F) ▷ 315-393	MELTING POINT (°F) ▷ --	VAPOR PRESSURE (mmHg) ▷ 0.3 psi @ 100°F*
SPECIFIC GRAVITY (H_2O=1) ▷ 0.78	% VOLATILE BY VOLUME ▷ 100	VAPOR DENSITY (AIR=1) ▷ 4.8
SOLUBILITY IN WATER ▷ Negligible	EVAPORATION RATE (BUTYL ACETATE=1) ▷ 0.07	*Reid vapor pressure.

APPEARANCE AND ODOR

Light colored liquid. Typical hydrocarbon odor.

SECTION VII — FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED	FLAMMABLE LIMITS % VOLUME IN AIR ▷ LOWER	UPPER
[illegible]°F ([illegible])	1.0	6.0

EXTINGUISHING MEDIA

Use water spray or fog, foam, dry chemical or CO_2. Do not use a direct water stream. Avoid accumulation of water as product will float.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Do not enter confined fire space without proper protective equipment including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers, surrounding equipment and structures with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

--

SHELL 7004 (10-73)

SECTION VIII — REACTIVITY

STABILITY ▷ [ ] UNSTABLE [X] STABLE

HAZARDOUS POLYMERIZATION ▷ [ ] MAY OCCUR [X] WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

Avoid heat, open flames and oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide and unidentified organics may be formed during combustion.

SECTION IX — SPECIAL PROTECTION

RESPIRATORY PROTECTION

Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

PROTECTIVE CLOTHING

Wear gloves and other protective clothing as required to minimize skin contact. Wear safety glasses or goggles to prevent eye contact.

ADDITIONAL PROTECTIVE MEASURES

Use explosion-proof ventilation as required to control vapor concentrations.

SECTION X — ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

Large spills: Eliminate potential sources of ignition. Wear appropriate respirator and other protective clothing. Shut off source of leak only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with a noncombustible absorbent such as clay or vermiculite; place in drums for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions in drums.

Small spills: Soak up with a noncombustible absorbent and place in drums for disposal. Flush area with water to remove trace residue; collect flush solutions for disposal.

WASTE DISPOSAL

Dispose of in a facility approved under RCRA regulations for hazardous waste (See Section XIII). Drums must be tightly sealed and properly labeled.

ENVIRONMENTAL HAZARDS

This product is an "oil" under the Clean Water Act. KEEP OUT OF SURFACE WATERS AND ANY WATER COURSES OR SEWERS ENTERING OR LEADING TO SURFACE WATERS. See Section XIII.

SECTION XI — SPECIAL PRECAUTIONS

Store away from oxidizing materials in a cool, dry place with adequate ventilation. Keep away from heat and open flames. Keep containers tightly sealed.

Wash up with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

SECTION XII — TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION

☐ FLAMMABLE LIQUID	☒ COMBUSTIBLE LIQUID	☐ OXIDIZING MATERIAL	☐ NON-FLAMMABLE GAS
☐ FLAMMABLE SOLID	☐ POISON CLASS A	☐ CORROSIVE MATERIAL	☐ NOT HAZARDOUS BY D.O.T. REGULATIONS
☐ FLAMMABLE GAS	☐ POISON CLASS B	☐ IRRITATING MATERIAL	☐ OTHER—Specify below

D.O.T. PROPER SHIPPING NAME

Petroleum Naphtha.

OTHER REQUIREMENTS

D.O.T. Identification Number = UN 1255. Guide Sheet 27.

SECTION XIII — OTHER REGULATORY CONTROLS

EPA,FDA,OSHA,USDA,CPSC,etc.

EPA - Clean Water Act (CWA)
This product is classified as an oil under Section 311 of the Clean Water Act. Spills entering (a) surface waters or (b) any watercourses or sewers entering/leading to surface waters that cause a sheen MUST be reported to the National Response Center, 800-424-8802.

EPA - Resource Conservation and Recovery Act (RCRA)
As produced, this material is a product and not a waste. If discarded or intended to be discarded as is, it is an ignitable hazardous waste as defined in RCRA (40 CFR 261.21). The EPA hazardous waste number is D001.

Come to Shell for answers

Manager

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
OIL AND CHEMICAL PRODUCTS
P.O. BOX 4320
HOUSTON, TEXAS 77210

DATE PREPARED

August 17, 199[illegible]

8/13/84 3:40 PM

HYDROTEST

John Deming - owner's son, manager
Darryl Deming - owner

in operation ~~~~ ~15 yrs.

hole 8-9 yrs. ago
~20' deep
18"-24" diameter
no water encountered

drain hole
oil from wash rack - truck washing, water + soap Barsol ~500 gal/yr
water from ice maker + water fountain

new septic tank for truck washing
Trustees put in
2 tanks, cement, into crushed rock pit
2 traps grease oil and sand

used oil burned in a heater

8/14/84

INVOICE

Blocker Oil Co, Inc

PO Box 2340

Hobbs 88240

393 gals solvent

6/11/84

12832 inv. no.

Pictures

1 - old well

Blocker Oil Co, Inc - Shell jobber

Mineral Spirit -135

"solvent" or "Base"

cleaning; treating oil wells

from Chemcentral/Odessa PO Box 7287 79760

915 367-6087

8/14/84

HYDRO TEST

Water Level of newer rathole — Hole #2
7.75' from top of casing which is 1.6' above grade

depth of well ~ 26.6 from top of tripod — 6' tripod height
or ~ 20.6' deep overall

Bailed about 10 times with 4' long, wide diameter PVC bailer.
Water felt oily, looked murky (hydrocarbon looks), ~~black~~ black flecks in it.
The first bail had a little black oily phase.
Some black oil stuck to bailer, my hands, etc.
Took 1 gallon amber jug, 2 VOA vials, 1 cubitainer and 1 1-liter amber jar at ~ 10:00 AM
pH 8.1; cond 2760 at 26°C

After we had collected a couple of bottles, you could hear & see water running into the hole. John Deming claims that that was water from their ice melter + refrigeration.

Walls of this hole appear to be lined with metal.

Deming says this ~~well~~ hole was put in about 1981. By Abbott

8/14/84

Hydro Test

Hole #1

Bailed 10 times.

Bailer coated with a brown oily substance, that appears to float on ~~the~~ top the water.

Filled 1 500 ml glass ~~bottle~~, 1 ~~sub~~ container, 1 1-liter amber jar

Filled from bottom of bailer, so mostly aqueous.

~~Took~~

Took samples of oil phase by scrapping off sides of ~~bailer~~ bailer into a beaker, then pouring into 1 500 ml glass bottle & 2 500-ml amber jars.

Bailer only went down to 9-ft. Below that was a soft sludge which we couldn't get because of relative sizes of hole and bailer.

Sides of hole were coated with oily stuff

Didn't add acid to oil whole jar.

8/14/84

Hydro Test

Old Well

35' - 2.90' from MP which ~ 2" above grade at 12:50

Let water run 5 mins. Then took 1 1-gal amber jug, 2 VOA vials, 1 coliform.

Lots of little bubbles in the water - couldn't get all air out of vial

Top of well covered with an iron plate through which the pipe + electric wire run. Not totally sealed.

Dennings all say water from this well tastes pretty good - better than their new, deeper well.

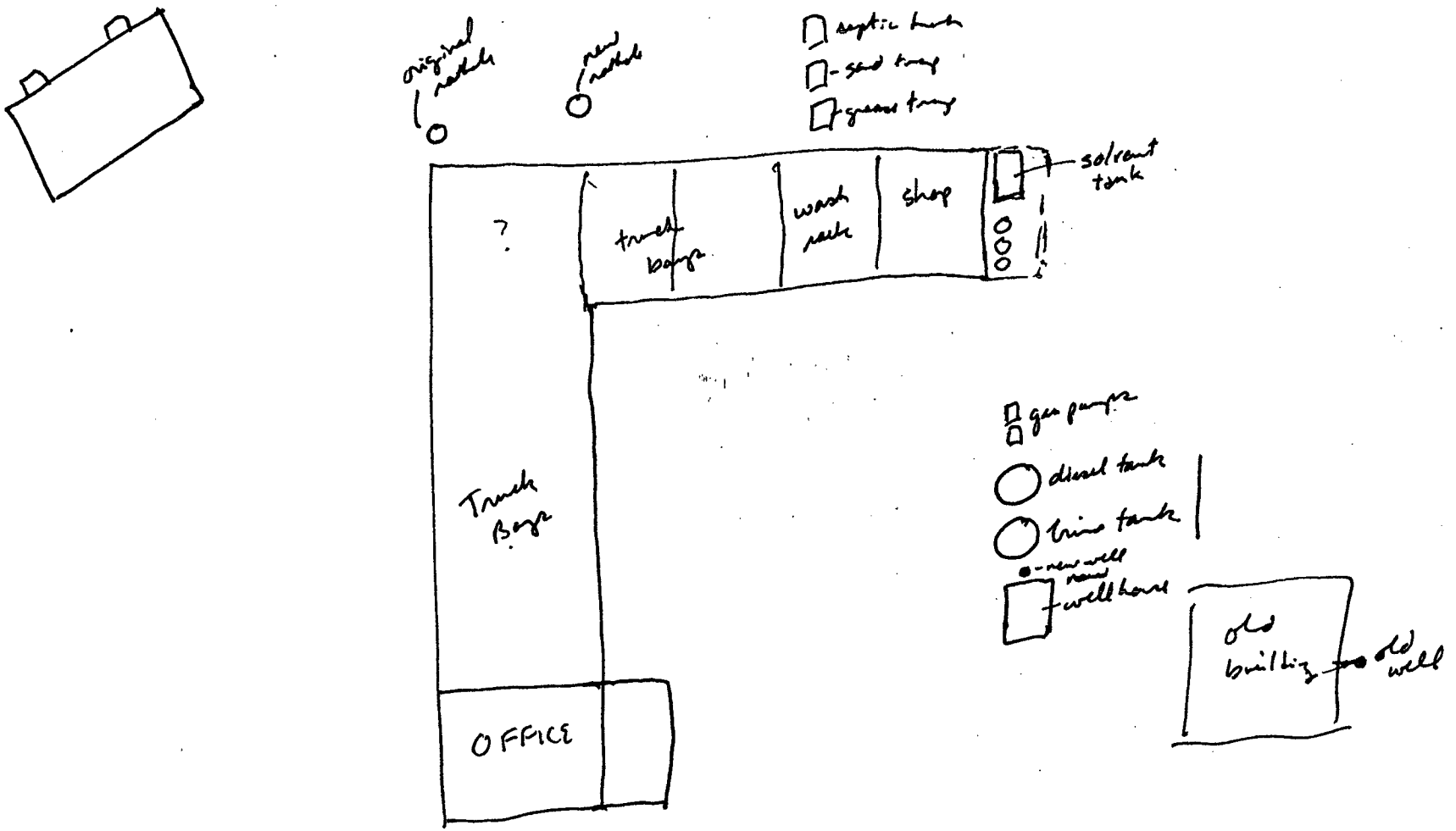
8/14/84

Hydro Test

Demings say there used to be a gas station on the lot — they don't think it had underground tanks. Closed ~1959.
Elder Deming's office is built over an old well.

Amoco tested wells before they put their own wells in around town.

Lot was often "a lake" before they built Hydro Stat.
Had to pile up dirt to build


seepage pit
original well
new well
septic tank
seed tray
grease trap
solvent tank
?
truck bays
wash rack
shop
Truck Bays
OFFICE
gas pumps
diesel tank
trino tank
new well
new well house
old building
old well

Hydrotest new well L-7461

permit application received 1/25/77 from Darrell Deming to appropriate --
SE¼ SE¼ S31 T18S R38E

Permit No. L-7461 drilled by

two holes used until Oct. 1982 (septic tank installed)
2nd hole was overflow
2nd hole drilled ~1981
1st hole drilled ~ 1976,

---

hole #2 silver can
Arm has depths
overflow line from hole #1 in place. Dripping can be seen & heard today.
Dripping increased while we were working.
We removed 10 buikers of water before sampling
T = 26°C (after 5 minutes up)
conductivity @ 26°C is 2760 μmhos pH = ~~8.42~~ 8.43
this measurement didn't re-zero
recalibrated from fresh buffer ~~8.09~~ 8.10

Oct. 1982 : septic tank installed

Hole No. 1 – corner of building.

1.36' below grade to liquid level

heavy layer layer of immiscible black HC

15' from pulley to bottom of well. or 9' deep

T = 27°C conductivity = 3920 μmhos ~~calcium~~ pH = 9.0 and unsteady

9.15 still rising slowly

filling station here 1940 closed about 1959.

above-ground tanks

water well in elder Deming's attic.

who drilled hole? didn't know earlier

Abbott Bros drilled nearer one

insert (A)

John Deming – this interview

Darrell Deming – owner

been in operation about 15 years in Hobbs

hole about 8-9 years old.

~ 20' deep, about 18-24" diameter

uncased.

no water encountered

drain hole – oil used to drain, out of wash rack (truck washing)

last few years – just water of ice-maker + water fountain

[get sample] Barsol – like a high-grade of gasoline

new septic tank + drain pit for building

Trusty's septic tank installed by – two concrete tanks installed.

drain into "rock pile"

bathroom also drains into septic

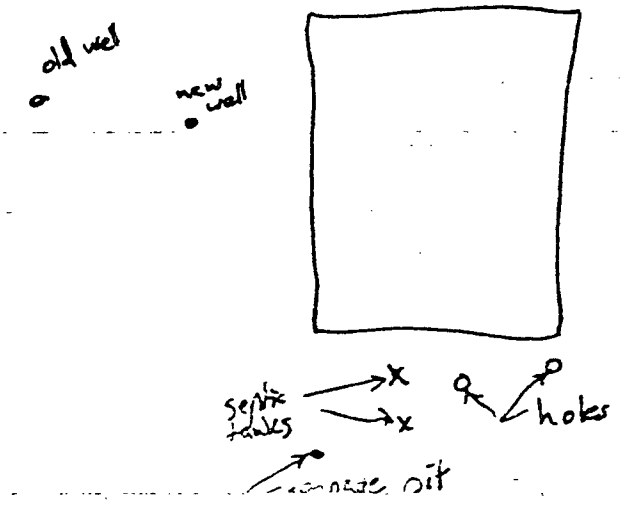
solvents used only to wash trucks, nothing else

500 gal/yr of Barsol at most (Blocker Oil – Shell Oil)

heater to burn used motor oil on site

two wells onsite 1) 120' newer well

2) unknown, older depth (better tasting)



temp. 23°C read earlier as 27°C

conductivity 1570 µmhos

pH 7.27

Amoco sampling about two years ago in the area.

STATE OF NEW MEXICO
GOVERNOR'S CABINET
SANTA FE
87503
984-0020

TONEY ANAYA
GOVERNOR

JOSEPH GOLDBERG
SECRETARY
FOR HEALTH & ENVIRONMENT

May 9, 1984

CERTIFIED MAIL

Mr. Darrell Deming
Hydro-Test
3030 W. Marland
Hobbs, New Mexico 88240

RE: Industrial Discharges to Ground Water, Hobbs, NM

Dear Mr. Deming:

Our investigation indicates your facility has discharged hydrocarbon contaminants to subsurface soil or ground water. These discharges constitute violations of state law, including the New Mexico Water Quality and Hazardous Waste Acts and the regulations adopted under those acts. Additionally, such conduct amounts to a public nuisance for which civil and criminal sanctions may be applicable to you.

These state laws and regulations, when violated, require the party responsible for the discharge to undertake remedial steps to restore and reclaim the contaminated soil and ground water in order to preserve and protect the public health, safety, welfare and property. To avoid litigation and pursuant to statute we are seeking your voluntary cooperation in the analysis of the discharge and the appropriate remedial steps necessary to eliminate the present contamination.

Within 15 days from the date of this letter please contact, in writing, Anthony Drypolcher, Acting Chief, Ground Water Hazardous Waste Bureau, at P.O. Box 968, Santa Fe, New Mexico 87504-0968, to make arrangements to supply us with the required data and information to structure a compliance agreement. This agreement will detail the phased schedule and remedial measures necessary to eliminate the existing and potential contamination at your facility. If we do not obtain your voluntary compliance to eliminate the environmental hazards caused by your discharge, we will proceed with legal action.

Sincerely,

William G. Walker
General Counsel

84-041

NEW MEXICO HEALTH AND ENVIRONMENT DEPARTMENT

HED NEWS

PUBLIC INFORMATION OFFICE
Post Office Box 968
Santa Fe, New Mexico 87504-0968
984-0060

FOR IMMEDIATE RELEASE

Contact: Richard Holland
984-0020 ext. 200

May 9, 1984

SANTA FE, NM --Three lawsuits filed today by the Health and Environment Department are the first step in the state's effort to clean up and prevent soil and ground water contamination by petroleum products and petroleum storage facilities in New Mexico.

HED Secretary Joseph Goldberg said in addition to the lawsuits, letters are being sent to 17 petroleum handling facilities in the state demanding the facilities take steps to restore the contaminated soil and ground water. Additional letters request data and information pertaining to potential contamination by petroleum handling and storage facilities in the state.

"These facilities are violating state laws on water quality and hazardous wastes and pose a threat to the public health by discharging known carcinogenic products into the soil which in turn contaminate the groundwater," Goldberg said.

Goldberg said the contamination of the ground water with petroleum is a national problem which began in the 1950's with the boom of gas stations

(more)

nationwide. Part of the problem concerns the underground tanks which store the petroleum and have corroded, leaking the petroleum and contaminating the ground water. Above ground storage terminals, refineries and industrial facilities are also being targeted to clean up and correct spills, improper disposal practices and leakages, Goldberg said.

"We've identified sites in New Mexico where contamination exists as a result of leaks or spills and we're asking the responsible parties to voluntarily eliminate the contamination," Goldberg said.

He said HED is asking the facilities to notify the Department within 15 days of their intention to voluntarily eliminate and correct existing contamination. Goldberg said the state will take further legal action if the parties do not comply with the state's request.

Goldberg said the action is aimed at eliminating existing contamination. The state will also pursue federal and state legislative action, and push for stricter national manufacturing standards for petroleum storage tanks to prevent future contamination.

-30-

NEW MEXICO
ENVIRONMENTAL IMPROVEMENT DIVISION
SAMPLE RECEIPT

(1 copy for Sampler; 1 copy for Facility Representative)

Page 1 of 1

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	DATE COLLECTED	SAMPLER INITIALS
Hole #2	furthest disposal hole from road	2-40ml vials 1 gallon amber jug 1 qt cubitainer 1 1liter amber jar	8/14/84	gm
Hole #1 aqueous	nearest disposal hole from road	one only → 1 liter amber bottle 1-qt cubitainer 1 500 ml glass jar	8/14/84	gm
Hole #1 oil	" " " " "	1 500 ml glass jar 2-1 liter amber bottles	8/14/84	gm
Old Well	east of small building east of plant	2-40ml vials 1 gallon amber jug 1 qt. cubitainer	8/14/84	gm

FACILITY REPRESENTATIVE: NAME: John Deming
SIGNATURE: [signature]

EID REPRESENTATIVE: NAME: gregory mello
SIGNATURE: gregory mello

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Ann Claassen
BUREAU: GW/Haz. Waste

RECEIVED
OCT 05 1984
HAZARDOUS WASTE SECTION

LABORATORY 8/15/84
LAB NUMBER HM 995
Date: 10/1/84 mL
SLD Users Code No. 53300

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other

Water Supply and/or Code No. Hydro Test Hole #1, Aqueous Phase

City & County Hobbs, Lea Co.

Collected (date & time) 8/14/84, 10:55 am By (name) MECO/CLAASSEN

pH= 9 ; Conductivity= 3920 umho/cm at ~~25~~ 23 °C; Chlorine Residual=

Dissolved Oxygen= mg/l; Alkalinity= ; Flow Rate=

Sampling Location, Methods & Remarks (i.e. odors etc.)

Water very oily; separates into two layers - upper layer brownish thick oil, like motor oil; bailed

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed

Method of Shipment to Laboratory Hand Carried.

THIS FORM ACCOMPANIES septum vials with teflon-lined discs identified as:
specimen ; duplicate ; triplicate ; blank(s) ,
and amber glass jug(s) with teflon-lined cap(s) identified as ,
and 1 other container(s) (describe) Cubitainer identified as Hole #1, AQ.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath. + 5ml HNO_3
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from Ann Claassen to Matthew Kirsten at (location) SLD on (date & time) 8/15/84 and that the statements in this block are correct.

Disposition of Sample . Seal(s) Intact: Yes ☒ No ☐ .

Signature(s) Matthew S. Kirsten

I (we) certify that this sample was transferred from to at (location) on (date & time) and that the statements in this block are correct.

Disposition of Sample . Seal(s) Intact: Yes ☐ No ☐ .

Signature(s)

ANALYSES REQUESTED

LAB NO. 995

☒ ICAP SCAN: ☐ dissolved ☒ total

Parameter	concentration ~~(ug/l)~~ ug/mL
Aluminum	1.1
Barium	0.37
Beryllium	<0.10
Boron	0.39
Cadmium	<0.10
Calcium	52.
Chromium	<0.10
Cobalt	<0.10
Copper	0.23
Iron	3.2
Lead	0.84
Magnesium	6.7
Manganese	<0.10
Molybdenum	<0.10
Nickel	<0.10
Silicon	<0.10
Silver	<0.10
Strontium	0.15
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	0.83

☒ ATOMIC ABSORPTION: ☐ dissolved ☒ total ug/mL

Arsenic	0.020
Selenium	0.006
Mercury	<0.0005

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s)-Broken by MJK date 8/17/84 .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis _____. Analysts signature _____
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature:

MJ
10-1-84

REPORT TO: Environmental Improvement Division **RECEIVED** LABORATORY ______ *Not Entered*
Health & Environment Department
P.O. Box 968 - Crown Building **SEP 19 1984** LAB NUMBER ______
Santa Fe, New Mexico 87504-0968
ATTENTION: ______
BUREAU: ______ HAZARDOUS WASTE SECTION
SLD Users Code No. 53300

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other ______

Water Supply and/or Code No. Hydro-Test Hole #1, ______

City & County ______

Collected (date & time) ______, 10:55 AM By (name) ______

pH= ______; Conductivity= ______ umho/cm at ______ °C; Chlorine Residual= ______

Dissolved Oxygen= ______ mg/l; Alkalinity= ______; Flow Rate= ______

Sampling Location, Methods & Remarks (i.e. odors etc.)

clear, very oily; separates into two layers – ______ layer brownish thick oil, like motor oil; ______

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed ______

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed ______

Method of Shipment to Laboratory hand carried.

THIS FORM ACCOMPANIES ______ septum vials with teflon-lined discs identified as:
specimen ______; duplicate ______; triplicate ______; blank(s) ______,
and ______ amber glass jug(s) with teflon-lined cap(s) identified as ______,
and 1 other container(s) (describe) 1 ______ identified as Hole #1, ______.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from ______ to Rick Meyerhein at (location) SLD on (date & time) ______ and that the statements in this block are correct.

Disposition of Sample ______. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) ______ R Meyerhein

I (we) certify that this sample was transferred from ______ to ______ at (location) ______ on (date & time) ______ and that the statements in this block are correct.

Disposition of Sample ______. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) ______ ______

ANALYSES REQUESTED LAB NO. _____

☐ ICAP SCAN: ☐ dissolved ☐ total

Parameter	concentration (ug/l)
Aluminum	
Barium	
Beryllium	
Boron	
Cadmium	
Calcium	
Chromium	
Cobalt	
Copper	
Iron	
Lead	
Magnesium	
Manganese	
Molybdenum	
Nickel	
Silicon	
Silver	
Strontium	
Tin	
Vanadium	
Yttrium	
Zinc	

☐ ATOMIC ABSORPTION: ☐ dissolved ☐ total

Arsenic	
Selenium	
Mercury	

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s)-Broken by _____ date _____ .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis _____. Analysts signature _____
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature:

Sample Not tested L Meyerhein

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Ann Claassen
BUREAU: GW/HAZ WASTE HAZARDOUS WASTE SECTION

RECEIVED
SEP 19 1984

LABORATORY _____
LAB NUMBER _____
Users Code No. S3300

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☐ Soil ☐ Other Oil phase in disposal hole

Water Supply and/or Code No. Hydro Test Hole #1

City & County Hobbs, Lea Co.

Collected (date & time) 9/14/84 11:30 AM By (name) MELLO/CLAASSEN

pH=_____; Conductivity=_____umho/cm at_____°C; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____

Sampling Location, Methods & Remarks (i.e. odors etc.)

Collected by scrapping off oil clinging to sides of bailer

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed _____

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory HAND CARRIED.

THIS FORM ACCOMPANIES ___ septum vials with teflon-lined discs identified as:
specimen_____; duplicate_____; triplicate_____; blank(s)_____,
and 1 amber glass jug(s) with teflon-lined cap(s) identified as Hole #1, Oil,
and ___ other container(s) (describe)_____ identified as_____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to Rick Meyerheim at (location) _____ on (date & time) 9/15/84 10:40 and that the statements in this block are correct.

Disposition of Sample _____ Seal(s) Intact: Yes ☒ No ☐.

Signature(s) _____ R Meyerheim

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐.

Signature(s) _____ _____

ANALYSES REQUESTED

LAB NO. _____

☐ ICAP SCAN: ☐ dissolved ☐ total

Parameter	concentration (ug/l)
Aluminum	Flash Point >110°C (oil was emulsified with water water was removed as much as possible with centrifugation and Drying with Calcium chloride.)
Barium	
Beryllium	
Boron	
Cadmium	
Calcium	
Chromium	
Cobalt	
Copper	
Iron	
Lead	
Magnesium	
Manganese	
Molybdenum	
Nickel	
Silicon	
Silver	
Strontium	
Tin	
Vanadium	
Yttrium	
Zinc	

☐ ATOMIC ABSORPTION: ☐ dissolved ☐ total

Arsenic	
Selenium	
Mercury	

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: (Yes) No . Seal(s)-Broken by L Meyerhen date 9/7/84 .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis 9/7/84 . Analysts signature L Meyerhen
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature:

8/15/84

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Ann Claassen
BUREAU: GW/HAZARDOUS WASTE

LABORATORY _____

LAB NUMBER HM 993

SLD Users Code No. 53300

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☐ Soil ☐ Other Oil Phase from Disposal Hole

Water Supply and/or Code No. Hydro Test Hole #1

City & County Hobbs, Lea Co.

Collected (date & time) 8/14/84 11:30 AM By (name) CLAASSEN/MOLLO

pH=_____; Conductivity=_____umho/cm at_____°C; Chlorine Residual=_____

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____

Sampling Location, Methods & Remarks (i.e. odors etc.)

Collected by scrapping off oil clinging to sides of bailer

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed [signature]

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed [illegible]

Method of Shipment to Laboratory HAND CARRIED.

THIS FORM ACCOMPANIES ___ septum vials with teflon-lined discs identified as: specimen_____; duplicate_____; triplicate_____; blank(s)_____, and 1 amber glass jug(s) with teflon-lined cap(s) identified as Hole #1, Oil, and _____ other container(s) (describe)_____ identified as_____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from Ann Claassen to Matthew Kirsten at (location) SCD on (date & time) 8/15/84 and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☒ No ☐.

Signature(s) [signature] [signature]

I (we) certify that this sample was transferred from _____ to _____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐.

Signature(s)_____ _____

ANALYSES REQUESTED

LAB NO. HM 993

☒ ICAP SCAN: ☐ dissolved ☒ total

Parameter	concentration (µg/g)
Aluminum	130.
Barium	22.
Beryllium	<1.0
Boron	<1.0
Cadmium	1.2 EP-tox if all was in water but I see it was oil
Calcium	1600.
Chromium	2.0
Cobalt	<1.0
Copper	46.
Iron	430.
Lead	270.
Magnesium	110.
Manganese	4.0
Molybdenum	1.7
Nickel	1.3
Silicon	2.3
Silver	<1.0
Strontium	4.6
Tin	10.
Vanadium	<1.0
Yttrium	<1.0
Zinc	200.

☒ ATOMIC ABSORPTION: ☐ dissolved ☒ total µg/g

Arsenic	0.27
Selenium	<0.05
Mercury	<0.0005

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s)-Broken by Woodrow S. Kitton date .

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis . Analysts signature Max Kirsten, J. Barrera, J. Miranda

Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: Maria W Ekkamen

11/15/84

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Ann Claassen
BUREAU: GW/HAZ WASTE HAZARDOUS WASTE SECTION

RECEIVED
SEP 19 1984

LABORATORY _____
LAB NUMBER Not entered
SLD Users Code No. 53300

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. Hole #2, Hydro Test

City & County Hobbs, Lea County

Collected (date & time) 8/14/84 10:05AM By (name) CLAASSEN/MELCO

pH= 6.1 ; Conductivity= 2760 umho/cm at 24 °C; Chlorine Residual= _____

Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____

Sampling Location, Methods & Remarks (i.e. odors etc.)

Bailed

Oily, murky, black specks in water

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed [signature]

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed [illegible]

Method of Shipment to Laboratory HAND CARRIED

THIS FORM ACCOMPANIES ___ septum vials with teflon-lined discs identified as: specimen _____; duplicate _____; triplicate _____; blank(s) _____, and 1 amber glass jug(s) with teflon-lined cap(s) identified as Hole #2, and ___ other container(s) (describe) _____ identified as _____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).

P-ICE: Sample stored in an ice bath.

P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from Ann Claassen to Rick Meyerhein at (location) SLD on (date & time) 8/15/84 and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☒ No ☐ .

Signature(s) [signature] [signature]

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

ANALYSES REQUESTED

LAB NO. _____

☐ ICAP SCAN: ☐ dissolved ☐ total

Parameter	concentration (ug/l)
Aluminum	
Barium	
Beryllium	
Boron	
Cadmium	
Calcium	
Chromium	
Cobalt	
Copper	
Iron	
Lead	
Magnesium	
Manganese	
Molybdenum	
Nickel	
Silicon	
Silver	
Strontium	
Tin	
Vanadium	
Yttrium	
Zinc	

☐ ATOMIC ABSORPTION: ☐ dissolved ☐ total

Arsenic	
Selenium	
Mercury	

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s)-Broken by _____ date _____ .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis _____. Analysts signature _____
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature:

Samples not tested R Meyerhein

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Ann Claassen
BUREAU: GW/HAZ WASTE

RECEIVED
OCT 05 1984
HAZARDOUS WASTE SECTION

LABORATORY 8/15/84
LAB NUMBER HM 994
DATE: MS 10/1/84
SLD Users Code No. 53300

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. Hydro Test Hole #2

City & County Hobbs, Lea Co.

Collected (date & time) 8/14/84 10:05 AM By (name) CLAASSEN/MELLO

pH= 8.1 ; Conductivity= 2760 umho/cm at AC 24 °C; Chlorine Residual= _____

Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____

Sampling Location, Methods & Remarks (i.e. odors etc.)

Oily, murky, black specks
Boiled

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed [signature]

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed [signature] Mello

Method of Shipment to Laboratory HAND CARRIED.

THIS FORM ACCOMPANIES ___ septum vials with teflon-lined discs identified as:
specimen _____; duplicate _____; triplicate _____; blank(s) _____,
and ___ amber glass jug(s) with teflon-lined cap(s) identified as _____,
and 1 other container(s) (describe) Cubitainer - 1gt identified as Hole #2.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath. + 5 ml HNO_3
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from Ann Claassen to Matthew Kirsten at (location) SLO on (date & time) 8/15/84 and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☒ No ☐.

Signature(s) [signature] [signature]

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐.

Signature(s) _____ _____

ANALYSES REQUESTED

LAB NO. 994

☒ ICAP SCAN: ☐ dissolved ☒ total

Parameter	concentration (~~ug/l~~ µg/ml)
Aluminum	0.45
Barium	0.22
Beryllium	<0.10
Boron	0.32
Cadmium	<0.10
Calcium	63.
Chromium	<0.10
Cobalt	<0.10
Copper	0.11
Iron	2.2
Lead	0.31
Magnesium	9.2
Manganese	<0.10
Molybdenum	<0.10
Nickel	<0.10
Silicon	<0.10
Silver	<0.10
Strontium	0.27
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	0.34

☒ ATOMIC ABSORPTION: ☐ dissolved ☒ total µg/ml

Arsenic	0.024
Selenium	0.006
Mercury	<0.0005

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s)-Broken by MJR date 8/17/84 .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis _____. Analysts signature _____
Icertify that I have reviewed and concur with the analytical results for this sample and with the statemenrs in this block. Reviewers Signature:

MJ, 10-1-84

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: Ann Claassen
BUREAU: GW/HAZ WASTE HAZARDOUS WASTE SECTION

RECEIVED
OCT 05 1984

LABORATORY 8/15/84
LAB NUMBER HM 996.
out: 10/1/84 mp
SLD Users Code No. 53300

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. ● HYDRO TEST, OLD WELL

City & County HOBBS, LEA CO.

Collected (date & time) 8/14/84 13:00 By (name) CLAASSEN/MELLO

pH= 7.3 ; Conductivity= 1570 umho/cm at 23 °C; Chlorine Residual= _____

Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____

Sampling Location, Methods & Remarks (i.e. odors etc.)

Faucet next to well. Lots of tiny bubbles in the water.
Pumped 5 mins. before sampling

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed [signature]

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed [signature]

Method of Shipment to Laboratory HAND CARRIED.

THIS FORM ACCOMPANIES ___ septum vials with teflon-lined discs identified as:
specimen _____; duplicate _____; triplicate _____; blank(s) _____,
and ___ amber glass jug(s) with teflon-lined cap(s) identified as _____,
and 1 other container(s) (describe) 1-qt cubitainer identified as OLD WELL.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice bath. + 5 ml HNO_3
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from Ann Claassen to Matthew Kirsten at (location) SLD on (date & time) 8/15/84 and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☒ No ☐.

Signature(s) [signature] [signature]

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐.

Signature(s) _____ _____

ANALYSES REQUESTED LAB NO. 996

☒ ICAP SCAN: ☐ dissolved ☒ total

Parameter	concentration (ug/ml ~~ppm~~ ppm
Aluminum	<0.10
Barium	0.11
Beryllium	<0.10
Boron	0.45
Cadmium	<0.10
Calcium	130.
Chromium	<0.10
Cobalt	<0.10
Copper	<0.10
Iron	1.5
Lead	<0.10
Magnesium	33.
Manganese	<0.05
Molybdenum	<0.10
Nickel	<0.10
Silicon	27.
Silver	<0.10
Strontium	2.0
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	0.69

☒ ATOMIC ABSORPTION: ☐ dissolved ☒ total ug/ml

Arsenic	0.012
Selenium	<0.005
Mercury	<0.0005

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s)-Broken by MJL date 8/17/84 .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis _____. Analysts signature _____
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: M Pikaar
10-1-84

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE, Albuquerque, New Mexico 87106
(505) 841-2500
Loris W. Hughes, Ph.D., Director

RECEIVED
OCT 05 1984
HAZARDOUS WASTE SECTION

Hm. 995
ENVIRONMENTAL IMPROVEMENT DIVISION
LOCATION Hydro Test

SAMPLE NO. Hole #1 DATE 8-14-84
SIGNATURE
PRINT NAME AND TITLE (Inspector, Analyst or Technician) ANN CLAASSEN, INSPECTOR
SEAL BROKEN BY DATE 8/21/84

Hm994
ENVIRONMENTAL IMPROVEMENT DIVISION
LOCATION Hydro Test

SAMPLE NO. Hole #2 DATE 8/14/84
SIGNATURE
PRINT NAME AND TITLE (Inspector, Analyst or Technician) ANN CLAASSEN, INSPECTOR
SEAL BROKEN BY DATE 8/21/84

HM996
ENVIRONMENTAL IMPROVEMENT DIVISION
LOCATION Hydro Test

SAMPLE NO. OLD WELL DATE 8/14/84
SIGNATURE
PRINT NAME AND TITLE (Inspector, Analyst or Technician) ANN CLAASSEN, INSPECTOR
SEAL BROKEN BY DATE 8/21/84

Hm993
ENVIRONMENTAL IMPROVEMENT DIVISION
LOCATION Hydro Test

SAMPLE NO. Hole #1 DATE 8/14/84
SIGNATURE
PRINT NAME AND TITLE (Inspector, Analyst or Technician) ANN CLAASSEN, INSPECTOR
SEAL BROKEN BY DATE 8/21/84

Hole #1 (Old Rathole) O:1 Phase

Isopropanol	200 mg/l
Hexane	TR
C_7-C_{13} aliphatics	9000 mg/l
C_{14}-C_{19} aliphatics	9000 mg/l
C_{20} + aliphatics	5000 mg/l
Acetone	8,400 ug/l
2-Butanone	8,100 ug/l
total-xylenes	7,300 ug/l

Hole # (Old Rathole) Water Phase

Hexane	TR
C_7-C_{13} aliphatics	300 mg/l
C_{14}-C_{19} aliphatics	40 mg/l
C_{20} + aliphatics	30 mg/l
total xylenes	4300 µg/l
naphthalene	1300 µg/l
di-n-octyl phthlate	440 µg/l
2-methylnaphthalene	480 µg/l

Hole # 2 (new method) Water

butane	10 mg/l
pentane	60~~50~~ mg/l
isopentane	~~80~~60 mg/l
~~neopentane~~	~~80 mg/l~~
methylcyclopentane	40 mg/l
cyclohexane	10 mg/l
2,3-dimethylbutane	20 mg/l
3-methylpentane	90 mg/l
2-methylpentane	200 mg/l
hexane	100 mg/l
C_7-C_{13} aliphatics	50,000 mg/l
ethylbenzene	100 µg/l
toulene	83 µg/l
2-butanone	16 µg/l
total xylenes	1700 µg/l
naphthalene	260 µg/l
butyl benzyl phthalate	10 µg/l
di-n-butyl phthalate	6 µg/l
2-methylnaphthalene	72 µg/l

Old Well

methylene chloride	3 µg/l
di-n-butyl phthalate	1 µg/l

IT CORPORATION

IT ANALYTICAL SERVICES

17605 Fabrica Way • Cerritos, California 90701 • 213-921-9831 / 714-523-9200

CERTIFICATE OF ANALYSIS

Prepared For: NM Environmental
Improvement Div.
P.O. Box 968
Santa Fe, NM 87501

Attn: Ann Claassen

Date: September 5, 1984

Date Received: August 15, 1984 P.O. Number: Contract Job Number: 30472/rjc

Five (5) liquid samples.

The samples were analyzed for volatile and semi-volatile organic contaminants using combined gas chromatography-mass spectrometry according to EPA Methods 624 and 625. Results for compounds on the EPA Hazardous Substances List and ethylene dibromide are listed on the enclosed summary sheets. Results for other compounds detected in the samples are given on the following page.

I certify that this report truly represents the finding of work performed by me or under my direct supervision.

Michael Shelton
Analytical Chemist

Reviewed and Approved.

David R. Pierce
Senior Chemist

	Micrograms/liter			Milligrams/liter	
	South Grimes Cafe Kitchen	Old Well Hydro Test	Hole #2 Hydro Test	Hole #1 Aqueous	Hole #1 Oil
Isopropanol	ND<5	ND<5	ND<10	ND<5	200
Butane	ND<5	ND<5	10	ND<5	ND<5
Pentane	ND<5	ND<5	60	ND<5	ND<5
Isopentane	ND<5	ND<5	80	ND<5	ND<5
Neopentane	10	ND<5	ND<10	ND<5	ND<5
Methylcyclopentane	ND<5	ND<5	40	ND<5	ND<5
Cyclohexane	ND<5	ND<5	10	ND<5	ND<5
2,3-Dimethylbutane	ND<5	ND<5	20	ND<5	ND<5
3-Methylpentane	ND<5	ND<5	90	ND<5	ND<5
2-Methylpentane	ND<5	ND<5	200	ND<5	ND<5
Hexane	ND<5	ND<5	100	TR<5	TR<5
C_7-C_{13} aliphatic-hydrocarbons	ND<10	ND<10	50,000	300	9000
C_{14}-C_{19} aliphatic hydrcarbons	ND<10	ND<10	ND<200	40	9000
C_{20} and larger aliphatic hydrocarbons	ND<10	ND<10	ND<200	30	5000

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present, but was below the level at which concentration could be determined.

Note: South Grimes Cafe Kitchen data not related to pathode evaluation.

GC/MS ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: OLD WELL HYDRO TEST
DATE ANALYZED: 08/30/84
UNITS: UG/L

CAS #	COMPOUND	CONC
107-02-8	ACROLEIN	10. ND
107-13-1	ACRYLONITRILE	10. ND
71-43-2	BENZENE	1. ND
56-23-5	CARBON TETRACHLORIDE	1. ND
108-90-7	CHLOROBENZENE	1. ND
107-06-2	1,2-DICHLOROETHANE	1. ND
71-55-6	1,1,1-TRICHLOROETHANE	1. ND
75-34-3	1,1-DICHLOROETHANE	1. ND
79-00-5	1,1,2-TRICHLOROETHANE	1. ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	1. ND
75-00-3	CHLOROETHANE	1. ND
110-75-8	2-CHLOROETHYLVINYL ETHER	10. ND
67-66-3	CHLOROFORM	1. ND
75-35-4	1,1-DICHLOROETHENE	1. ND
156-60-5	TRANS-1,2-DICHLOROETHENE	1. ND
78-87-5	1,2-DICHLOROPROPANE	1. ND
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1. ND
10061-01-5	CIS-1,3-DICHLOROPROPENE	1. ND
100-41-4	ETHYLBENZENE	1. ND
75-09-2	METHYLENE CHLORIDE	3. TR
74-87-3	CHLOROMETHANE	1. ND
74-83-9	BROMOMETHANE	1. ND
75-25-2	BROMOFORM	1. ND
75-27-4	BROMODICHLOROMETHANE	1. ND
124-48-1	CHLORODIBROMOMETHANE	1. ND
127-18-4	TETRACHLOROETHENE	1. ND
108-88-3	TOLUENE	1. ND
79-01-6	TRICHLOROETHENE	1. ND
75-01-4	VINYL CHLORIDE	1. ND
67-64-1	ACETONE	10. ND
78-93-3	2-BUTANONE	10. ND
75-15-0	CARBON DISULFIDE	1. ND
519-78-6	2-HEXANONE	1. ND
108-10-1	4-METHYL-2-PENTANONE	1. ND
100-42-5	STYRENE	1. ND
108-05-4	VINYL ACETATE	1. ND
95-47-6	TOTAL XYLENES	1. ND
106-93-4	ETHYLENE DIBROMIDE	1. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

GC/MS ORGANICS ANALYSIS DATA SHEET
BASE/NEUTRAL AND ACID COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: OLD WELL HYDRO TEST
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
88-06-2	2,4,6-TRICHLOROPHENOL	1. ND
59-50-7	4-CHLORO-3-METHYLPHENOL	1. ND
95-57-8	2-CHLOROPHENOL	1. ND
120-33-2	2,4-DICHLOROPHENOL	1. ND
105-67-9	2,4-DIMETHYLPHENOL	1. ND
88-75-5	2-NITROPHENOL	1. ND
100-02-7	4-NITROPHENOL	1. ND
51-28-5	2,4-DINITROPHENOL	1. ND
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1. ND
87-86-5	PENTACHLOROPHENOL	1. ND
108-95-2	PHENOL	1. ND
65-85-0	BENZOIC ACID	1. ND
95-48-7	2-METHYLPHENOL	1. ND
108-39-4	4-METHYLPHENOL	1. ND
95-95-4	2,4,5-TRICHLOROPHENOL	1. ND
83-32-9	ACENAPHTHENE	1. ND
92-87-5	BENZIDINE	1. ND
120-82-1	1,2,4-TRICHLOROBENZENE	1. ND
118-74-1	HEXACHLOROBENZENE	1. ND
67-72-1	HEXACHLOROETHANE	1. ND
111-44-4	BIS(2-CHLOROETHYL)ETHER	1. ND
91-58-7	2-CHLORONAPHTHALENE	1. ND
95-50-1	1,2-DICHLOROBENZENE	1. ND
541-73-1	1,3-DICHLOROBENZENE	1. ND
106-46-7	1,4-DICHLOROBENZENE	1. ND
91-94-1	3,3'-DICHLOROBENZIDINE	1. ND
121-14-2	2,4-DINITROTOLUENE	1. ND
606-20-2	2,6-DINITROTOLUENE	1. ND
122-66-7	1,2-DIPHENYLHYDRAZINE	1. ND
206-44-0	FLUORANTHENE	1. ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1. ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	1. ND
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	1. ND
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1. ND
87-68-3	HEXACHLOROBUTADIENE	1. ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	1. ND
78-59-1	ISOPHORONE	1. ND
91-20-3	NAPHTHALENE	1. ND
98-95-3	NITROBENZENE	1. ND
62-75-9	N-NITROSODIMETHYLAMINE	1. ND
86-30-6	N-NITROSODIPHENYLAMINE	1. ND
621-64-7	N-NITROSODIPROPLYAMINE	1. ND
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1. ND
85-68-7	BUTYL BENZYL PHTHALATE	1. ND
84-74-2	DI-N-BUTYL PHTHALATE	1. TR
117-84-0	DI-N-OCTYL PHTHALATE	1. ND
84-66-2	DIETHYL PHTHALATE	1. ND
131-11-3	DIMETHYL PHTHALATE	1. ND
56-55-3	BENZO(A)ANTHRACENE	1. ND
50-32-8	BENZO(A)PYRENE	1. ND

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET - PAGE 2
BASE/NEUTRAL AND ACID COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: OLD WELL HYDRO TEST
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
205-99-2	BENZO(B&K)FLUORANTHENE	1. ND
218-01-9	CHRYSENE	1. ND
208-96-8	ACENAPHTHYLENE	1. ND
120-12-7	ANTHRACENE	1. ND
191-24-2	BENZO(GHI)PERYLENE	1. ND
86-73-7	FLUORENE	1. ND
85-01-8	PHENANTHRENE	1. ND
53-70-3	DIBENZO(A,H)ANTHRACENE	1. ND
193-39-5	INDENO(1,2,3-CD)PYRENE	1. ND
129-00-0	PYRENE	1. ND
62-53-3	ANILINE	1. ND
100-51-6	BENZYL ALCOHOL	1. ND
106-47-8	4-CHLOROANILINE	1. ND
132-64-9	DIBENZOFURAN	1. ND
91-57-6	2-METHYLNAPHTHALENE	1. ND
88-74-4	2-NITROANILINE	1. ND
99-09-2	3-NITROANILINE	1. ND
100-01-6	4-NITROANILINE	1. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

GC/MS ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: HOLE #1 - AQUEOUS
DATE ANALYZED: 09/01/84
UNITS: UG/L

CAS #	COMPOUND	CONC
107-02-8	ACROLEIN	5000. ND
107-13-1	ACRYLONITRILE	5000. ND
71-43-2	BENZENE	500. ND
56-23-5	CARBON TETRACHLORIDE	500. ND
108-90-7	CHLOROBENZENE	500. ND
107-06-2	1,2-DICHLOROETHANE	500. ND
71-55-6	1,1,1-TRICHLOROETHANE	500. ND
75-34-3	1,1-DICHLOROETHANE	500. ND
79-00-5	1,1,2-TRICHLOROETHANE	500. ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	500. ND
75-00-3	CHLOROETHANE	500. ND
110-75-8	2-CHLOROETHYLVINYL ETHER	5000. ND
67-66-3	CHLOROFORM	500. ND
75-35-4	1,1-DICHLOROETHENE	500. ND
156-60-5	TRANS-1,2-DICHLOROETHENE	500. ND
78-87-5	1,2-DICHLOROPROPANE	500. ND
10061-02-6	TRANS-1,3-DICHLOROPROPENE	500. ND
10061-01-5	CIS-1,3-DICHLOROPROPENE	500. ND
100-41-4	ETHYLBENZENE	500. ND
75-09-2	METHYLENE CHLORIDE	500. ND
74-87-3	CHLOROMETHANE	500. ND
74-83-9	BROMOMETHANE	500. ND
75-25-2	BROMOFORM	500. ND
75-27-4	BROMODICHLOROMETHANE	500. ND
124-48-1	CHLORODIBROMOMETHANE	500. ND
127-18-4	TETRACHLOROETHENE	500. ND
108-88-3	TOLUENE	500. ND
79-01-6	TRICHLOROETHENE	500. ND
75-01-4	VINYL CHLORIDE	500. ND
67-64-1	ACETONE	5000. ND
78-93-3	2-BUTANONE	5000. ND
75-15-0	CARBON DISULFIDE	500. ND
519-78-6	2-HEXANONE	500. ND
108-10-1	4-METHYL-2-PENTANONE	500. ND
100-42-5	STYRENE	500. ND
108-05-4	VINYL ACETATE	500. ND
95-47-6	TOTAL XYLENES	4300. TR
106-93-4	ETHYLENE DIBROMIDE	500. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

GC/MS ORGANICS ANALYSIS DATA SHEET
BASE/NEUTRAL AND ACID COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: HOLE#1-AQUEOUS
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
88-06-2	2,4,6-TRICHLOROPHENOL	120. ND
59-50-7	4-CHLORO-3-METHYLPHENOL	120. ND
95-57-8	2-CHLOROPHENOL	120. ND
120-33-2	2,4-DICHLOROPHENOL	120. ND
105-67-9	2,4-DIMETHYLPHENOL	120. ND
88-75-5	2-NITROPHENOL	120. ND
100-02-7	4-NITROPHENOL	120. ND
51-28-5	2,4-DINITROPHENOL	120. ND
534-52-1	4,6-DINITRO-2-METHYLPHENOL	120. ND
87-86-5	PENTACHLOROPHENOL	120. ND
108-95-2	PHENOL	120. ND
65-85-0	BENZOIC ACID	120. ND
95-48-7	2-METHYLPHENOL	120. ND
108-39-4	4-METHYLPHENOL	120. ND
95-95-4	2,4,5-TRICHLOROPHENOL	120. ND
83-32-9	ACENAPHTHENE	120. ND
92-87-5	BENZIDINE	120. ND
120-82-1	1,2,4-TRICHLOROBENZENE	120. ND
118-74-1	HEXACHLOROBENZENE	120. ND
67-72-1	HEXACHLOROETHANE	120. ND
111-44-4	BIS(2-CHLOROETHYL)ETHER	120. ND
91-58-7	2-CHLORONAPHTHALENE	120. ND
95-50-1	1,2-DICHLOROBENZENE	120. ND
541-73-1	1,3-DICHLOROBENZENE	120. ND
106-46-7	1,4-DICHLOROBENZENE	120. ND
91-94-1	3,3'-DICHLOROBENZIDINE	120. ND
121-14-2	2,4-DINITROTOLUENE	120. ND
606-20-2	2,6-DINITROTOLUENE	120. ND
122-66-7	1,2-DIPHENYLHYDRAZINE	120. ND
206-44-0	FLUORANTHENE	120. ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	120. ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	120. ND
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	120. ND
111-91-1	BIS(2-CHLOROETHOXY)METHANE	120. ND
87-68-3	HEXACHLOROBUTADIENE	120. ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	120. ND
78-59-1	ISOPHORONE	120. ND
91-20-3	NAPHTHALENE	1300.
98-95-3	NITROBENZENE	120. ND
62-75-9	N-NITROSODIMETHYLAMINE	120. ND
86-30-6	N-NITROSODIPHENYLAMINE	120. ND
621-64-7	N-NITROSODIPROPLYAMINE	120. ND
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	230. TR
85-68-7	BUTYL BENZYL PHTHALATE	120. ND
84-74-2	DI-N-BUTYL PHTHALATE	120. ND
117-84-0	DI-N-OCTYL PHTHALATE	440. TR
84-66-2	DIETHYL PHTHALATE	120. ND
131-11-3	DIMETHYL PHTHALATE	120. ND
56-55-3	BENZO(A)ANTHRACENE	120. ND
50-32-8	BENZO(A)PYRENE	120. ND

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET - PAGE 2
BASE/NEUTRAL AND ACID COMPOUNDS

SAMPLE IDENTIFICATION: HOLE#1-AQUEOUS
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
205-99-2	BENZO(B&K)FLUORANTHENE	120. ND
218-01-9	CHRYSENE	120. ND
208-96-8	ACENAPHTHYLENE	120. ND
120-12-7	ANTHRACENE	120. ND
191-24-2	BENZO(GHI)PERYLENE	120. ND
86-73-7	FLUORENE	120. ND
85-01-8	PHENANTHRENE	120. ND
53-70-3	DIBENZO(A,H)ANTHRACENE	120. ND
193-39-5	INDENO(1,2,3-CD)PYRENE	120. ND
129-00-0	PYRENE	120. ND
62-53-3	ANILINE	120. ND
100-51-6	BENZYL ALCOHOL	120. ND
106-47-8	4-CHLOROANILINE	120. ND
132-64-9	DIBENZOFURAN	120. ND
91-57-6	2-METHYLNAPHTHALENE	480. TR
88-74-4	2-NITROANILINE	120. ND
99-09-2	3-NITROANILINE	120. ND
100-01-6	4-NITROANILINE	120. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

GC/MS ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: HOLE #1 - OIL
DATE ANALYZED: 09/01/84
UNITS: UG/L

CAS #	COMPOUND	CONC
107-02-8	ACROLEIN	5000. ND
107-13-1	ACRYLONITRILE	5000. ND
71-43-2	BENZENE	500. ND
56-23-5	CARBON TETRACHLORIDE	500. ND
108-90-7	CHLOROBENZENE	500. ND
107-06-2	1,2-DICHLOROETHANE	500. ND
71-55-6	1,1,1-TRICHLOROETHANE	1300. TR
75-34-3	1,1-DICHLOROETHANE	500. ND
79-00-5	1,1,2-TRICHLOROETHANE	500. ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	500. ND
75-00-3	CHLOROETHANE	500. ND
110-75-8	2-CHLOROETHYLVINYL ETHER	5000. ND
67-66-3	CHLOROFORM	500. ND
75-35-4	1,1-DICHLOROETHENE	500. ND
156-60-5	TRANS-1,2-DICHLOROETHENE	500. ND
78-87-5	1,2-DICHLOROPROPANE	500. ND
10061-02-6	TRANS-1,3-DICHLOROPROPENE	500. ND
10061-01-5	CIS-1,3-DICHLOROPROPENE	500. ND
100-41-4	ETHYLBENZENE	500. ND
75-09-2	METHYLENE CHLORIDE	500. ND
74-87-3	CHLOROMETHANE	500. ND
74-83-9	BROMOMETHANE	500. ND
75-25-2	BROMOFORM	500. ND
75-27-4	BROMODICHLOROMETHANE	500. ND
124-48-1	CHLORODIBROMOMETHANE	500. ND
127-18-4	TETRACHLOROETHENE	500. ND
108-88-3	TOLUENE	500. ND
79-01-6	TRICHLOROETHENE	500. ND
75-01-4	VINYL CHLORIDE	500. ND
67-64-1	ACETONE	8400. TR
78-93-3	2-BUTANONE	8100. TR
75-15-0	CARBON DISULFIDE	500. ND
519-78-6	2-HEXANONE	500. ND
108-10-1	4-METHYL-2-PENTANONE	500. ND
100-42-5	STYRENE	500. ND
108-05-4	VINYL ACETATE	500. ND
95-47-6	TOTAL XYLENES	7300.
106-93-4	ETHYLENE DIBROMIDE	500. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

GC/MS ORGANICS ANALYSIS DATA SHEET
BASE/NEUTRAL AND ACID COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: HOLE#1---OIL
DATE ANALYZED: 09/04/84
UNITS: UG/L (PPB)

CAS #	COMPOUND	CONC
88-06-2	2,4,6-TRICHLOROPHENOL	50000. ND
59-50-7	4-CHLORO-3-METHYLPHENOL	50000. ND
95-57-8	2-CHLOROPHENOL	50000. ND
120-33-2	2,4-DICHLOROPHENOL	50000. ND
105-67-9	2,4-DIMETHYLPHENOL	50000. ND
88-75-5	2-NITROPHENOL	50000. ND
100-02-7	4-NITROPHENOL	50000. ND
51-28-5	2,4-DINITROPHENOL	50000. ND
534-52-1	4,6-DINITRO-2-METHYLPHENOL	50000. ND
87-86-5	PENTACHLOROPHENOL	50000. ND
108-95-2	PHENOL	50000. ND
65-85-0	BENZOIC ACID	50000. ND
95-48-7	2-METHYLPHENOL	50000. ND
108-39-4	4-METHYLPHENOL	50000. ND
95-95-4	2,4,5-TRICHLOROPHENOL	50000. ND
83-32-9	ACENAPHTHENE	50000. ND
92-87-5	BENZIDINE	50000. ND
120-82-1	1,2,4-TRICHLOROBENZENE	50000. ND
118-74-1	HEXACHLOROBENZENE	50000. ND
67-72-1	HEXACHLOROETHANE	50000. ND
111-44-4	BIS(2-CHLOROETHYL)ETHER	50000. ND
91-58-7	2-CHLORONAPHTHALENE	50000. ND
95-50-1	1,2-DICHLOROBENZENE	50000. ND
541-73-1	1,3-DICHLOROBENZENE	50000. ND
106-46-7	1,4-DICHLOROBENZENE	50000. ND
91-94-1	3,3'-DICHLOROBENZIDINE	50000. ND
121-14-2	2,4-DINITROTOLUENE	50000. ND
606-20-2	2,6-DINITROTOLUENE	50000. ND
122-66-7	1,2-DIPHENYLHYDRAZINE	50000. ND
206-44-0	FLUORANTHENE	50000. ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	50000. ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	50000. ND
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	50000. ND
111-91-1	BIS(2-CHLOROETHOXY)METHANE	50000. ND
87-68-3	HEXACHLOROBUTADIENE	50000. ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	50000. ND
78-59-1	ISOPHORONE	50000. ND
91-20-3	NAPHTHALENE	50000. ND
98-95-3	NITROBENZENE	50000. ND
62-75-9	N-NITROSODIMETHYLAMINE	50000. ND
86-30-6	N-NITROSODIPHENYLAMINE	50000. ND
621-64-7	N-NITROSODIPROPLYAMINE	50000. ND
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	50000. ND
85-68-7	BUTYL BENZYL PHTHALATE	50000. ND
84-74-2	DI-N-BUTYL PHTHALATE	50000. ND
117-84-0	DI-N-OCTYL PHTHALATE	50000. ND
84-66-2	DIETHYL PHTHALATE	50000. ND
131-11-3	DIMETHYL PHTHALATE	50000. ND
56-55-3	BENZO(A)ANTHRACENE	50000. ND
50-32-8	BENZO(A)PYRENE	50000. ND

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET - PAGE 2
BASE/NEUTRAL AND ACID COMPOUNDS

SAMPLE IDENTIFICATION: HOLE#1---OIL
DATE ANALYZED: 09/04/84
UNITS: UG/L (PPB)

CAS #	COMPOUND	CONC
205-99-2	BENZO(B&K)FLUORANTHENE	50000. ND
218-01-9	CHRYSENE	50000. ND
208-96-8	ACENAPHTHYLENE	50000. ND
120-12-7	ANTHRACENE	50000. ND
191-24-2	BENZO(GHI)PERYLENE	50000. ND
86-73-7	FLUORENE	50000. ND
85-01-8	PHENANTHRENE	50000. ND
53-70-3	DIBENZO(A,H)ANTHRACENE	50000. ND
193-39-5	INDENO(1,2,3-CD)PYRENE	50000. ND
129-00-0	PYRENE	50000. ND
62-53-3	ANILINE	50000. ND
100-51-6	BENZYL ALCOHOL	50000. ND
106-47-8	4-CHLOROANILINE	50000. ND
132-64-9	DIBENZOFURAN	50000. ND
91-57-6	2-METHYLNAPHTHALENE	50000. ND
88-74-4	2-NITROANILINE	50000. ND
99-09-2	3-NITROANILINE	50000. ND
100-01-6	4-NITROANILINE	50000. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

GC/MS ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: HOLE#2 HYDRO TEST
DATE ANALYZED: 08/30/84
UNITS: UG/L

CAS #	COMPOUND	CONC
107-02-8	ACROLEIN	10. ND
107-13-1	ACRYLONITRILE	10. ND
71-43-2	BENZENE	1. ND
56-23-5	CARBON TETRACHLORIDE	1. ND
108-90-7	CHLOROBENZENE	1. ND
107-06-2	1,2-DICHLOROETHANE	1. ND
71-55-6	1,1,1-TRICHLOROETHANE	1. ND
75-34-3	1,1-DICHLOROETHANE	1. ND
79-00-5	1,1,2-TRICHLOROETHANE	1. ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	1. ND
75-00-3	CHLOROETHANE	1. ND
110-75-8	2-CHLOROETHYLVINYL ETHER	10. ND
67-66-3	CHLOROFORM	1. ND
75-35-4	1,1-DICHLOROETHENE	1. ND
156-60-5	TRANS-1,2-DICHLOROETHENE	1. ND
78-87-5	1,2-DICHLOROPROPANE	1. ND
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1. ND
10061-01-5	CIS-1,3-DICHLOROPROPENE	1. ND
100-41-4	ETHYLBENZENE	100.
75-09-2	METHYLENE CHLORIDE	1. ND
74-87-3	CHLOROMETHANE	1. ND
74-83-9	BROMOMETHANE	1. ND
75-25-2	BROMOFORM	1. ND
75-27-4	BROMODICHLOROMETHANE	1. ND
124-48-1	CHLORODIBROMOMETHANE	1. ND
127-18-4	TETRACHLOROETHENE	1. ND
108-88-3	TOLUENE	83.
79-01-6	TRICHLOROETHENE	1. ND
75-01-4	VINYL CHLORIDE	1. ND
67-64-1	ACETONE	10. ND
78-93-3	2-BUTANONE	16. TR
75-15-0	CARBON DISULFIDE	1. ND
519-78-6	2-HEXANONE	1. ND
108-10-1	4-METHYL-2-PENTANONE	1. ND
100-42-5	STYRENE	1. ND
108-05-4	VINYL ACETATE	1. ND
95-47-6	TOTAL XYLENES	1700.
106-93-4	ETHYLENE DIBROMIDE	1. ND

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GC/MS ORGANICS ANALYSIS DATA SHEET
BASE/NEUTRAL AND ACID COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: HOLE#2 HYDRO TEST
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
88-06-2	2,4,6-TRICHLOROPHENOL	20. ND
59-50-7	4-CHLORO-3-METHYLPHENOL	20. ND
95-57-8	2-CHLOROPHENOL	20. ND
120-33-2	2,4-DICHLOROPHENOL	20. ND
105-67-9	2,4-DIMETHYLPHENOL	20. ND
88-75-5	2-NITROPHENOL	20. ND
100-02-7	4-NITROPHENOL	20. ND
51-28-5	2,4-DINITROPHENOL	20. ND
534-52-1	4,6-DINITRO-2-METHYLPHENOL	20. ND
87-86-5	PENTACHLOROPHENOL	20. ND
108-95-2	PHENOL	20. ND
65-85-0	BENZOIC ACID	20. ND
95-48-7	2-METHYLPHENOL	20. ND
108-39-4	4-METHYLPHENOL	20. ND
95-95-4	2,4,5-TRICHLOROPHENOL	20. ND
83-32-9	ACENAPHTHENE	20. ND
92-87-5	BENZIDINE	20. ND
120-82-1	1,2,4-TRICHLOROBENZENE	20. ND
118-74-1	HEXACHLOROBENZENE	20. ND
67-72-1	HEXACHLOROETHANE	20. ND
111-44-4	BIS(2-CHLOROETHYL)ETHER	20. ND
91-58-7	2-CHLORONAPHTHALENE	20. ND
95-50-1	1,2-DICHLOROBENZENE	20. ND
541-73-1	1,3-DICHLOROBENZENE	20. ND
106-46-7	1,4-DICHLOROBENZENE	20. ND
91-94-1	3,3'-DICHLOROBENZIDINE	20. ND
121-14-2	2,4-DINITROTOLUENE	20. ND
606-20-2	2,6-DINITROTOLUENE	20. ND
122-66-7	1,2-DIPHENYLHYDRAZINE	20. ND
206-44-0	FLUORANTHENE	20. ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	20. ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	20. ND
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	20. ND
111-91-1	BIS(2-CHLOROETHOXY)METHANE	20. ND
87-68-3	HEXACHLOROBUTADIENE	20. ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	20. ND
78-59-1	ISOPHORONE	20. ND
91-20-3	NAPHTHALENE	260.
98-95-3	NITROBENZENE	20. ND
62-75-9	N-NITROSODIMETHYLAMINE	20. ND
86-30-6	N-NITROSODIPHENYLAMINE	20. ND
621-64-7	N-NITROSODIPROPLYAMINE	20. ND
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	20. ND
85-68-7	BUTYL BENZYL PHTHALATE	10. TR
84-74-2	DI-N-BUTYL PHTHALATE	6. TR
117-84-0	DI-N-OCTYL PHTHALATE	20. ND
84-66-2	DIETHYL PHTHALATE	20. ND
131-11-3	DIMETHYL PHTHALATE	20. ND
56-55-3	BENZO(A)ANTHRACENE	20. ND
50-32-8	BENZO(A)PYRENE	20. ND

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET - PAGE 2
BASE/NEUTRAL AND ACID COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: HOLE#2 HYDRO TEST
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
205-99-2	BENZO(B&K)FLUORANTHENE	20. ND
218-01-9	CHRYSENE	20. ND
208-96-8	ACENAPHTHYLENE	20. ND
120-12-7	ANTHRACENE	20. ND
191-24-2	BENZO(GHI)PERYLENE	20. ND
86-73-7	FLUORENE	20. ND
85-01-8	PHENANTHRENE	20. ND
53-70-3	DIBENZO(A,H)ANTHRACENE	20. ND
193-39-5	INDENO(1,2,3-CD)PYRENE	20. ND
129-00-0	PYRENE	20. ND
62-53-3	ANILINE	20. ND
100-51-6	BENZYL ALCOHOL	20. ND
106-47-8	4-CHLOROANILINE	20. ND
132-64-9	DIBENZOFURAN	20. ND
91-57-6	2-METHYLNAPHTHALENE	72. TR
88-74-4	2-NITROANILINE	20. ND
99-09-2	3-NITROANILINE	20. ND
100-01-6	4-NITROANILINE	20. ND

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GC/MS ORGANICS ANALYSIS DATA SHEET
VOLATILE COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: SOUTH GRIMES CAFE KITCHEN
DATE ANALYZED: 08/30/84
UNITS: UG/L

CAS #	COMPOUND	CONC
107-02-8	ACROLEIN	10. ND
107-13-1	ACRYLONITRILE	10. ND
71-43-2	BENZENE	1. ND
56-23-5	CARBON TETRACHLORIDE	1. ND
108-90-7	CHLOROBENZENE	1. ND
107-06-2	1,2-DICHLOROETHANE	1. ND
71-55-6	1,1,1-TRICHLOROETHANE	1. ND
75-34-3	1,1-DICHLOROETHANE	1. ND
79-00-5	1,1,2-TRICHLOROETHANE	1. ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	1. ND
75-00-3	CHLOROETHANE	1. ND
110-75-8	2-CHLOROETHYLVINYL ETHER	10. ND
67-66-3	CHLOROFORM	1. ND
75-35-4	1,1-DICHLOROETHENE	1. ND
156-60-5	TRANS-1,2-DICHLOROETHENE	1. ND
78-87-5	1,2-DICHLOROPROPANE	1. ND
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1. ND
10061-01-5	CIS-1,3-DICHLOROPROPENE	1. ND
100-41-4	ETHYLBENZENE	1. ND
75-09-2	METHYLENE CHLORIDE	4. TR
74-87-3	CHLOROMETHANE	1. ND
74-83-9	BROMOMETHANE	1. ND
75-25-2	BROMOFORM	1. ND
75-27-4	BROMODICHLOROMETHANE	1. ND
124-48-1	CHLORODIBROMOMETHANE	1. ND
127-18-4	TETRACHLOROETHENE	1. ND
108-88-3	TOLUENE	1. ND
79-01-6	TRICHLOROETHENE	1. ND
75-01-4	VINYL CHLORIDE	1. ND
67-64-1	ACETONE	10. ND
78-93-3	2-BUTANONE	10. ND
75-15-0	CARBON DISULFIDE	1. ND
519-78-6	2-HEXANONE	1. ND
108-10-1	4-METHYL-2-PENTANONE	1. ND
100-42-5	STYRENE	1. ND
108-05-4	VINYL ACETATE	1. ND
95-47-6	TOTAL XYLENES	1. ND
106-93-4	ETHYLENE DIBROMIDE	1. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

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GC/MS ORGANICS ANALYSIS DATA SHEET
BASE/NEUTRAL AND ACID COMPOUNDS

IT CORPORATION

SAMPLE IDENTIFICATION: SOUTH GRIMES CAFE KITCHEN
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
88-06-2	2,4,6-TRICHLOROPHENOL	1. ND
59-50-7	4-CHLORO-3-METHYLPHENOL	1. ND
95-57-8	2-CHLOROPHENOL	1. ND
120-33-2	2,4-DICHLOROPHENOL	1. ND
105-67-9	2,4-DIMETHYLPHENOL	1. ND
88-75-5	2-NITROPHENOL	1. ND
100-02-7	4-NITROPHENOL	1. ND
51-28-5	2,4-DINITROPHENOL	1. ND
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1. ND
87-86-5	PENTACHLOROPHENOL	1. ND
108-95-2	PHENOL	1. ND
65-85-0	BENZOIC ACID	1. ND
95-48-7	2-METHYLPHENOL	1. ND
108-39-4	4-METHYLPHENOL	1. ND
95-95-4	2,4,5-TRICHLOROPHENOL	1. ND
83-32-9	ACENAPHTHENE	1. ND
92-87-5	BENZIDINE	1. ND
120-82-1	1,2,4-TRICHLOROBENZENE	1. ND
118-74-1	HEXACHLOROBENZENE	1. ND
67-72-1	HEXACHLOROETHANE	1. ND
111-44-4	BIS(2-CHLOROETHYL)ETHER	1. ND
91-58-7	2-CHLORONAPHTHALENE	1. ND
95-50-1	1,2-DICHLOROBENZENE	1. ND
541-73-1	1,3-DICHLOROBENZENE	1. ND
106-46-7	1,4-DICHLOROBENZENE	1. ND
91-94-1	3,3'-DICHLOROBENZIDINE	1. ND
121-14-2	2,4-DINITROTOLUENE	1. ND
606-20-2	2,6-DINITROTOLUENE	1. ND
122-66-7	1,2-DIPHENYLHYDRAZINE	1. ND
206-44-0	FLUORANTHENE	1. ND
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1. ND
101-55-3	4-BROMOPHENYL PHENYL ETHER	1. ND
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	1. ND
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1. ND
87-68-3	HEXACHLOROBUTADIENE	1. ND
77-47-4	HEXACHLOROCYCLOPENTADIENE	1. ND
78-59-1	ISOPHORONE	1. ND
91-20-3	NAPHTHALENE	1. ND
98-95-3	NITROBENZENE	1. ND
62-75-9	N-NITROSODIMETHYLAMINE	1. ND
86-30-6	N-NITROSODIPHENYLAMINE	1. ND
621-64-7	N-NITROSODIPROPLYAMINE	1. ND
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1. ND
85-68-7	BUTYL BENZYL PHTHALATE	1. ND
84-74-2	DI-N-BUTYL PHTHALATE	1. ND
117-84-0	DI-N-OCTYL PHTHALATE	1. ND
84-66-2	DIETHYL PHTHALATE	1. ND
131-11-3	DIMETHYL PHTHALATE	1. ND
56-55-3	BENZO(A)ANTHRACENE	1. ND
50-32-8	BENZO(A)PYRENE	1. ND

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET - PAGE 2
BASE/NEUTRAL AND ACID COMPOUNDS

SAMPLE IDENTIFICATION: SOUTH GRIMES CAFE KITCHEN
DATE ANALYZED: 09/04/84
UNITS: UG/L

CAS #	COMPOUND	CONC
205-99-2	BENZO(B&K)FLUORANTHENE	1. ND
218-01-9	CHRYSENE	1. ND
208-96-8	ACENAPHTHYLENE	1. ND
120-12-7	ANTHRACENE	1. ND
191-24-2	BENZO(GHI)PERYLENE	1. ND
86-73-7	FLUORENE	1. ND
85-01-8	PHENANTHRENE	1. ND
53-70-3	DIBENZO(A,H)ANTHRACENE	1. ND
193-39-5	INDENO(1,2,3-CD)PYRENE	1. ND
129-00-0	PYRENE	1. ND
62-53-3	ANILINE	1. ND
100-51-6	BENZYL ALCOHOL	1. ND
106-47-8	4-CHLOROANILINE	1. ND
132-64-9	DIBENZOFURAN	1. ND
91-57-6	2-METHYLNAPHTHALENE	1. ND
88-74-4	2-NITROANILINE	1. ND
99-09-2	3-NITROANILINE	1. ND
100-01-6	4-NITROANILINE	1. ND

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TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

(This form to be executed in triplicate)

WELL RECORD

Date of Receipt ..... Permit No. L-2555

Name of permittee, Skelly Oil Co.

Street or P. O., Drawer D, City and State Hobbs, New Mexico

1. Well location and description: The Shallow (shallow or artesian) well is located in SW ¼, SW ¼, SW ¼ of Section 32, Township 18 S, Range 38 E; Elevation of top of casing above sea level, ... feet; diameter of hole, 8 inches; total depth, 116 feet; depth to water upon completion, 34 feet; drilling was commenced June 25, 19 54 and completed June 25 19 54; name of drilling contractor Ed. B. Burke Box 306; Address, Hobbs, New Mexico; Driller's License No. WD-111

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	54	85	31	Water Sand
No. 2	101 ~~116~~	116	15	Water Sand
No. 3				
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner Top	Bottom	Feet of Casing	Type of Shoe	Perforation From	To
6 5/8	20	10	0	113	113	collar	85	113

Cemented from 0 to 57

4. If above construction replaces old well to be abandoned, give location: ..... ¼, ... ¼, ... ¼ of Section ....., Township ....., Range .....; name and address of plugging contractor,

.....

.....

date of plugging ....., 19.....; describe how well was plugged: .....

.....

.....

STATE ENGINEER OFFICE, N.M.
RECEIVED
JUN 9 1954
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

FILED
JUL 1 1954
OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

5. Log of Well:

Depth in feet From	Depth in feet To	Thickness in feet	Description of Formation
0	4	4	Top Soil
4	25	21	Caliche
25	34	9	Pack Sand
34	39	5	Water Sand (weak)
39	54	15	Pack Sand
54	85	31	Water Sand
85	94	9	Hard Sand Rock
94	101	7	Tight Sand
101	116	15	Water Sand

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Edward B Burke
Licensed Well Driller

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

NEW MEXICO STATE ENGINEER
TOTALIZING METER REPORT

State Engineer Office
P. O. Box 1717
Roswell, New Mexico 88201

Attention: Basin Supervisor

Dear Sir:

In accordance with the State Engineer regulation which requires that quarterly reports of meter readings be submitted on or before the 10th of January, April, July and October, the following information is submitted.

1. FILE NO. L-7461 DATE: JANUARY 6, 1984

   NAME: DARRELL DEMING

   ADDRESS: 3030 WEST MARLAND, P.O. BOX 2428 HOBBS, NEW MEXICO 8824

2. WELL DESCRIPTION

   S. E. File No. L-746; Company Well No.

   Location: Subdv. ½SE¼SWW Sec. 32 Twp. 188 Rge. 38E

3. TOTALIZING METER

   Serial No. 2527 4086 Units BARRELLS

   Make EUREKA "B" ROCKWELL Multiplier

4. READING

   Date: JANUARY 5, 1984 Reading 080061

   Quantity of water used 3065 Quarter, 1983, 4TH QUARTER

5. REMARKS:

DARRELL DEMING

By: SECRETARY

INSTRUCTIONS:
Specific questions should be answered as follows:
(1) State Engineer's File No. or No. of well reported and name and address of owner. (2) Description of well to which meter attached. (3) Description of meter, including multiplier or constant by which reading must be multiplied to obtain actual quantity of water. Units refers to units of measurement such as acre feet, gallons, barrels,

NEW MEXICO STATE ENGINEER
TOTALIZING METER REPORT

State Engineer Office
P. O. Box 1717
Roswell, New Mexico 88201

Attention: Basin Supervisor

Dear Sir:

In accordance with the State Engineer regulation which requires that quarterly reports of meter readings be submitted on or before the 10th of January, April, July and October, the following information is submitted.

1. FILE NO. L-7461 DATE: APRIL 9, 1984

NAME: DARRELL DEMING

ADDRESS: 3030 WEST MARLAND, P.O. BOX 2428, HOBBS, NEW MEXICO 88240

2. WELL DESCRIPTION

S. E. File No. L-7461 Company Well No.

Location: Subdv ½SE¼SWW Sec. 32 Twp. 18S Rge. 38E

3. TOTALIZING METER

Serial No. 2527 4086 Units BARRELLS

Make EUREKA "B" ROCKWELL Multiplier

4. READING

Date: APRIL 9, 1984 Reading 083144

Quantity of water used 3083 Quarter, 1984, ~~2ND~~ 1ST QUARTER

5. REMARKS:

DARRELL DEMING

By: SECRETARY

INSTRUCTIONS:
Specific questions should be answered as follows:
(1) State Engineer's File No. or No. of well reported and name and address of owner. (2) Description of well to which meter attached. (3) Description of meter, including multiplier or constant by which reading must be multiplied to obtain actual quantity of water. Units refers to units of measurement such as acre feet, gallons, barrels.

NEW MEXICO STATE ENGINEER
TOTALIZING METER REPORT

State Engineer Office
P. O. Box 1717
Roswell, New Mexico 88201

Attention: Basin Supervisor

Dear Sir:

In accordance with the State Engineer regulation which requires that quarterly reports of meter readings be submitted on or before the 10th of January, April, July and October, the following information is submitted.

1. FILE NO. L-7461 DATE: JULY 10, 1984

   NAME: DARRELL DEMING

   ADDRESS: 3030 WEST MARLAND, P.O. BOX 2428, HOBBS, NEW MEXICO 88240

2. WELL DESCRIPTION

   S. E. File No. L-7461 Company Well No. _____

   Location: Subdv. ½SE¼SWW Sec. 32 Twp. 18S Rge. 38E

3. TOTALIZING METER

   Serial No. 2527 4086 Units BARRELLS

   Make EUREKA "B" ROCKWELL Multiplier _____

4. READING

   Date: JULY 10, 1984 Reading 86336

   Quantity of water used 3192 Quarter, 19 84 , 2ND QUARTER

5. REMARKS: _____

DARRELL DEMING

By: SECRETARY

INSTRUCTIONS:
Specific questions should be answered as follows:
(1) State Engineer's File No. or No. of well reported and name and address of owner. (2) Description of well to which meter attached. (3) Description of meter, including multiplier or constant by which reading must be multiplied to obtain actual quantity of water. Units

NEW MEXICO STATE ENGINEER
TOTALIZING METER REPORT

State Engineer Office
P. O. Box 1717
Roswell, New Mexico 88201

Attention: Basin Supervisor

Dear Sir:

In accordance with the State Engineer regulation which requires that quarterly reports of meter readings be submitted on or before the 10th of January, April, July and October, the following information is submitted.

1. FILE NO. L-7461 DATE: November 6, 1984

NAME: DARRELL DEMING

ADDRESS: 3030 WEST MARLAND, P. O. BOX 2428 HOBBS, NEW MEXICO 88240

2. WELL DESCRIPTION

S. E. File No. L-7461 Company Well No. _____

Location: Subdv. ¼SE¼SWW Sec. 32 Twp. 18S Rge. 38E

3. TOTALIZING METER

Serial No. 2527 4086 Units BARRELLS

Make EUREKA "B" ROCKWELL Multiplier _____

4. READING

Date: NOVEMBER 6, 1984 Reading 90676

Quantity of water used 4340 Quarter, 19 84, 3rd QUARTER

5. REMARKS: _____

DARRELL DEMING

By: [signature] SECRETARY

INSTRUCTIONS:
Specific questions should be answered as follows:
(1) State Engineer's File No. or No. of well reported and name and address of owner. (2) Description of well to which meter attached. (3) Description of meter, including multiplier or constant by which reading must be multiplied to obtain actual quantity of water. Units

SF

June 23, 1983

File: L-7461

Darrell Deming
Box 2096
Hobbs, NM 88240

Dear Sir:

Please be advised that your well No. L-7461 must be metered under the terms of this permit and meter report must be submitted to this office on or before the 10th day of January, April, July and October of each year for the preceding calendar months.

To date, there have been no quarterly reports submitted to this office for the year 1983 to indicate the amount of water pumped.

Please see that this reading is submitted immediately.

Yours very truly,

Johnny R. Hernandez
Assistant Basin Supervisor

JRH/fh
cc: Santa Fe

C/RRR # P 243 162 489

SF

'83 MAY 23 AM 10 02

STATE OF NEW MEXICO

STATE ENGINEER OFFICE
ROSWELL

S.E. REYNOLDS
STATE ENGINEER

May 20, 1983

DISTRICT 2
909 EAST 2ND ST.
P.O. BOX 1717
ROSWELL, NEW MEXICO 88201

File: L-7461

Darrell Deming
Box 2096
Hobbs, NM 88240

Dear Sir:

The State Engineer requires that quarterly reports of meter readings be submitted on or before the 10th of January, April, July and October. To date, the meter reading on the above numbered well for the quarter ending in March, 1983 has not been received in this office.

Please see that this reading is submitted immediately.

Yours very truly,

Johnny R. Hernandez
Assistant Basin Supervisor

JRH/fh
cc: Santa Fe

January 13, 1977

77 JAN 17 PM 1 11

File: L-7461

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

Darrell Deming
P. O. Box 2096
Hobbs, NM 88240

Dear Sir:

The above-numbered permit was granted by the State Engineer with the following condition: "A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor on or before the 10th of January, April, July and October of each year for the three preceding calendar months." As of this date, the quarterly reports have not been received.

Enclosed are meter report forms for your convenience. If we can be of any assistance in this matter, please contact this office.

Yours very truly,

Robert R. Marr
Ass't. Basin Supervisor

RRM/fh
cc: SF

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Darrell Deming
Street or Post Office Address P.O.Box 2096
City and State Hobbs, N.M.88240

Well was drilled under Permit No. L-7461 and is located in the:

a. ___ ¼ ___ ¼ SE ¼ SW ¼ of Section 32 Township 18S Range ___ N.M.P.M.

b. Tract No. ___ of Map No. ___ of the ___

c. Lot No. ___ of Block No. ___ of the ___
Subdivision, recorded in ___ County.

d. X= ___ feet, Y= ___ feet, N.M. Coordinate System ___ Zone in the ___ Grant.

(B) Drilling Contractor C. M. Griffin License No. WD-603

Address P.O. Box 2096 Hobbs, N.M. 88240

Drilling Began 12-15-75 Completed 12-23-75 Type tools Spudder Size of hole 8 in.

Elevation of land surface or ___ at well is ___ ft. Total depth of well 120 ft.

Completed well is [X] shallow [ ] artesian. Depth to water upon completion of well 37 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
XXXX	XXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXX	
29	120	91	Red sand with sand rock stringers	40

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6 5/8			0	120	120	None	90	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
7	120	8n	4		Gel mixed with water

Section 5. PLUGGING RECORD

Plugging Contractor ___
Address ___
Plugging Method ___
Date Well Plugged ___
Plugging approved by:

___
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad ___ FWL ___ FSL ___

File No. L-7461 Use DTC Location No. 18.35.32. [illegible]

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	1	1	brown top soil
1	10	9	Pink caliche rock
10	27	17	White caliche rock
27	29	2	Slate rock
29	120	91	Red sand with sand rock stringers

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

READ INSTRUCTIONS ON BACK

Revised March 1972

APPLICATION TO APPROPRIATE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTION 75-11-1 NEW MEXICO STATUTES

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

'75 DEC 1 AM 8 30

1. Name and Address of Applicant:

File No. L-7461

Darrell Deming

Bpx 2096

Hobbs, New Mexico 88240

2. Describe well location under one of the following subheadings:

a. ~~XXX~~ ¼ SE ¼ SW ¼ of Sec. 32 Twp. 18S Rge. 38E N. M. P. M., in Lea County.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____ Subdivision, recorded in _____ County.

d. X = _____ feet, Y = _____ feet, N. M. Coordinate System _____ Zone in the _____ Grant.

e. Give street address or route and box No. of property upon which well is to be located, or location by direction and distance from known landmarks. 3030 West Marland Street

3. Approximate depth (if known) 150 feet; outside diameter of casing 7 inches.

Name of driller (if known) C. M. Griffin

STATE ENGINEER OFFICE
ROSWELL, N. M.

'75 DEC 9 AM 8 32

4. Use of water (check appropriate box or boxes):

- ☐ Household, non-commercial trees, lawn and garden not to exceed 1 acre.
- ☐ Livestock watering.
- ☒ Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
- ☐ Prospecting, mining or drilling operations to discover or develop natural resources.
- ☐ Construction of public works, highways and roads.

If any of the last three were marked, give name and nature of business under Remarks. (Item 5)

5. Remarks: Hydro Test & Hydrostatic Pipe Service

Oilwell pressure test of Tubing and ETC.

I, Darrell Deming, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Darrell Deming, Applicant

By: C. M. Griffin Date: 11-28-75

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to the specific conditions numbered 1, 4 & 5b on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before December 31, 1976.

S. E. Reynolds, State Engineer

By: Fred H. Hennighausen

Fred H. Hennighausen, District II Supervisor

Date: December 12, 1975

File No. L-7461

IMPORTANT—READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

LEA COUNTY UNDERGROUND BASIN

Application No. L-2555 Book LC-10 Date Received May 17, 1954

1. Name of applicant Skelly Oil Company

Postoffice address Box 38, Hobbs, New Mexico

County of Lea, State of New Mexico

2. Source of water supply shallow ground water basin
(state whether artesian or shallow ground water basin)

located in Lea underground basin
(name of underground stream, valley, artesian basin, etc.)

3. The well is to be located in the SW ¼, SW ¼, SW ¼, of section 32, Township 18S, Range 38E, N.M.P.M.

on land owned by Skelly Oil Company

4. Description of well: driller Ed. Burke; depth to be drilled 130 feet; diamenter (outside) of casing 7" OD inches; type of pump and power plant to be used Electric motor with jet pump and pressure tank

5. Quantity of water to be appropriated and beneficially used 1 acre ft. per year
(feet depth or acre feet per acre)

for Domestic use only purposes.

6. Acreage to be irrigated Approximately 1/4 acre of lawn & flowers acres

located and described as follows (describe only lands to be irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner
Beginning at a point 97' N. 0° 3'W. and 661.94' E. of the SW corner of Sec. 32-18S-38E, thence 658.05' N. 0° 3' W., thence 198.56' W., thence 658.05' S. 0° 3' E. thence 198.56' E. to the point of beginning, Lea County, New Mexico.	32	18S	38E	1/4	Skelly Oil Company
Approximately only 1/4 acre of land described at left will be irrigated.					

(Note: location of well and acreage to be irrigated must be shown on plat on reverse side.)

7. Time required to commence construction 5 Days;

Time required to complete the works 10 Days;

Time required to fully apply water to beneficial use. 15 Days

8. Additional statements or explanations (including data on any other water rights appurtenant to above lands)

FILED
MAY 17 1954
OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

I, J. N. Dunlavey being first duly sworn upon my oath, depose and say that I have carefully read the foregoing statement and each and all of the items contained therein, and that the same are true to the best of my knowledge and belief.

Skelly Oil Company, applicant

by J. N. Dunlavey

Subscribed and sworn to before me this 13 th. day of May, A. D., 1954

My Commission Expires Aug 19, 1956

My Commission expires

O. C. Lee

Notary Public.

APPROVAL OF THE STATE ENGINEER

Number of this permit L-2555 Date received corrected

Recorded in Book LC-10 Publication of notice ordered

Page 2555 Name of paper

Application received May 17, 1954 Affidavit of publication filed

Date returned for correction Date of approval June 14, 1954

This application is approved for three acre feet of water subject to all prior valid and existing rights to the use of the waters of said underground source and provided that the applicant complies with all rules and regulations of the State Engineer pertaining to the drilling of wells

Well to be drilled by drilling contractor licensed in the State of New Mexico. Diameter of well not to exceed 7 inches. Appropriation of water to be limited at all times to 3 acre feet per annum for domestic purposes and the irrigation of not more than 1 acre of non-commercial garden.

Works shall be completed and proofs filed on or before June 15, 1955

Water shall be applied to beneficial use and proofs filed on or before

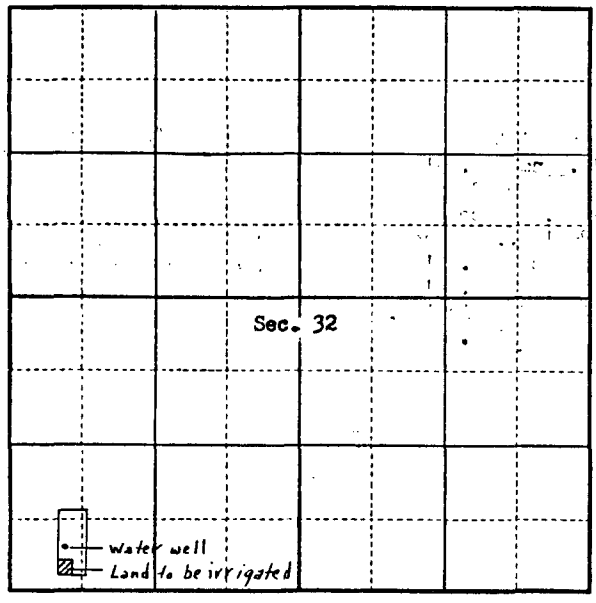
This is to certify that I have examined the above application for permit to appropriate the underground waters of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions.

Witness my hand and seal this 14 day of June, A. D., 1954.

BY: Frank E. Irby JOHN R. ERICKSON
FRANK E. IRBY, CHIEF, WATER RIGHTS DIVISION State Engineer

LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLAT:

Section (s) 32, Township 18S, Range 38E, N.M.P.M.



INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of $5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4—Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

SOUTHWESTERN PUBLISHING CO., SANTA FE, N. M.

OPTIONS FOR HIGH PRIORITY CONTAMINATION CASES

The following options should be considered for the following contamination cases. Before any option is pursued, a thorough evaluation of its feasibility should be made including legal aspects and staff-time commitments.

OPTION	CASE (Parameter)
Enforcement Letter Pursuant to State Regulations	12 Service Station Cases: Paul's Place in Tome (gasoline) Abandoned Texaco in Taos (leaded gasoline) Reese Road in Ruidoso (leaded gasoline) Chama Rainbow (leaded gasoline) Chama Texaco (leaded gasoline) Big Chief Fina in Albuquerque (gasoline) Country Kitchen in Arroyo Hondo (gasoline) Big Rock Shopping Center in Espanola (leaded gasoline) Chevron in Carlsbad (gasoline) Union 76 in Albuquerque (waste oil) Diamond Shamrock in Socorro (leaded gasoline) Merlo well in Roswell (gasoline) 3 Bulk Terminals: Cal Gas in Albuquerque Texaco in Gallup Kaiser Coal Mine in York Canyon 1 Petroleum Refinery: Navajo in Artesia (gasoline and diesel) 1 Miscellaneous Industrial Facilities: Hydro Test in Hobbs (undetermined hydrocarbon; analysis underway)
Information Request Letters	A minimum of 36 cases (all classes).

18S.38E.32.333 - Hydro Test

This firm conducts hydrostatic tests on oil well casings and pipelines. In approximately 1978 a "rathole" was drilled for the purpose of disposing of washrack wastes. The rathole is reportedly 25 inches in diameter and 36 feet deep; the water table is approximately 28 feet deep. In approximately early 1983, two septic tanks were installed because the rathole was not draining fast enough to dispose of the waste stream.

EID staff visited this facility on April 27, 1984 and sampled the rathole contents and two on-site water supply wells. A dark-gray sludge was found at a depth of nine feet in the rathole; oily water above the sludge was sampled. See Table 1 for the organics analyses results. Inorganic analytical data are not yet available.

STRONG POINTS: In violation of Part III (discharge plans) and Part V (UIC) of the WQCC Regulations; Liquid Waste Regulations

WEAK POINTS:

1. Hydro-test may or may not be the source of the organic contaminants in the well, source not known for sure.

RECOMMENDATIONS:

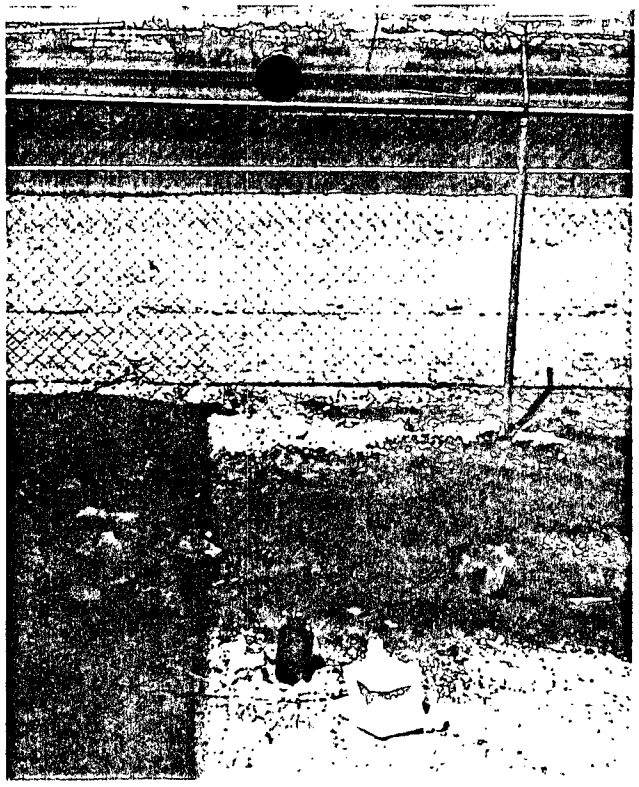
1. Resample the well for organics using base neutral/acid extractions and
2. Stress the well by pumping prior to resampling.

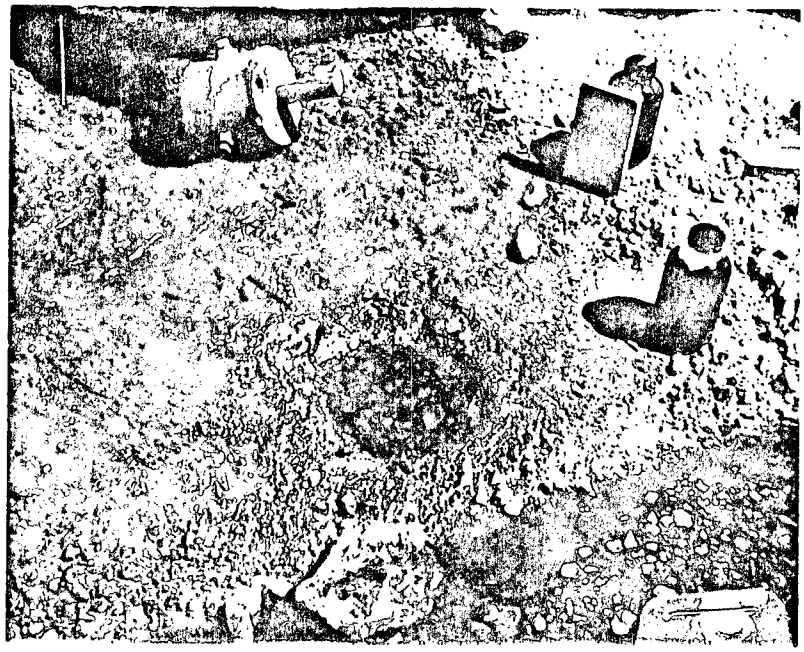
Table 1

18S.38E.32.333 Hydro Test

All units are ug/l Well depths are reported, not measured.

	Sampling Date	● 4/27/84 Rathole*	2	● 4/27/84 well #1 40-50' deep	4	● 4/27/84 well #2 110' deep	6	7	
1	benzene	230.		ND		ND			
2	toluene	1,300.		ND		ND			
3	ethylbenzene	920.		ND		ND			
4	p-xylene			ND		ND			
5	m-xylene			ND		ND			
6	o-xylene	6,300.		ND		ND			
7	C_9 benzenes	ND		ND		ND			
8									
9									
10	purgeable aliphatics	many C_9-C_{12} present		C_9-C_{12} present		ND			
11									
12	EDC	4.		ND		ND			
13	EDB	ND		ND		ND			
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24	* Values are								
25	approximate due								
26	to large								
27	dilution factor.								
28									
29									
30									
31									





REPORT TO: Environmental Improvement
Health & Environment Depar 84-0537 -C
P.O. Box 968 - Crown Build
Santa Fe, New Mexico 87504-0968
ATTENTION: McQuillan
BUREAU: GW+HW

LABORATORY: SLD priority #2
LAB NUMBER OR537A,B
4/30/84
SLD Users Code No. 51600

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other _____

Water Supply and/or Code No. Hydro Test well #2, NE cor. Maitland & W. Co. Rd.

City & County Hobbs / Lea

Collected (date & time) 840427 09:20 By (name) McQuillan/Longmire/Ruffner

pH= 6.96 ; Conductivity= 700 umho/cm at 18 °C; Chlorine Residual= not detd

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ ; Flow Rate= _____

Sampling Location, Methods & Remarks (i.e. odors etc.)

sampled from pressure tank; Eh = + 142 mv

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Dennis McQuillan

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory OF-7580.

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen A ; duplicate B ; triplicate _____ ; blank(s) _____,
and _____ amber glass jug(s) with teflon-lined cap(s) identified as _____,
and _____ other container(s) (describe) _____ identified as _____.
Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice ~~bath.~~ chest.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT -

I (we) certify that this sample was transferred from Patrick Longmire to Jim Ashby at (location) State Laboratory on (date & time) 840430 855 and that the statements in this block are correct.

Disposition of Sample Sealed. Seal(s) Intact: Yes ☑ No ☐ .

Signature(s) Patrick Longmire Jim Ashby

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____. Seal(s) Intact: Yes ☐ No ☐ .

Signature(s) _____ _____

ANALYSES REQUESTED — LAB. NO

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

029 537

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
	X	GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS			**SPECIFIC COMPOUNDS**

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
		* DETECTION LIMIT	1µg/L

REMARKS: No purgeables detected.

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: (Yes) No . Seal(s) Broken by [illegible] date 5/9/84 .

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis 5/9/84 . Analysts signature [signature]

Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: L Meyerhen

McQuillan
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER WC 1868
DATE RECEIVED 4/30/84
DATE REPORTED 6/10/84 Initials
SLD USER CODE NUMBER 57600

Well Location Address Hydro Test Well #2, NE cor. Marland & W. Co. Rd., Hobbs, Lea Co.

Point of Collection pressure tank

Well Owner/User

Number of People Drinking Water from Well several employees

Collected 840427 (Date) 9:20 (Time) By McQuillan/Longmire/Ruffner (Name) (Agency)

Well Depth 110'

Water Level 28'?

Taste? Odor? Color? Collectors Remarks

pH 6.96

Conductivity (Uncorrected) 700 umho/cm

Temperature 18 °C

Conductivity at 25°C umho/cm

Eh = + 142 mv

PROJECT: Lea Co. HCO 326.0 / 6.52

From ____, A-H_2SO_4 Sample:

- ☐ Nitrate-N+ Nitrite-N 1.60 mg/l 5/29
- ☐ Ammonia-N ____ mg/l ____
- ☐ Chemical oxygen demand ____ mg/l ____
- ☐ ____ ____ ____

From ____, A-HNO_3 Sample:

- ☐ ICAP Scan
- ☐ Metals by AA (Specify)

From F, NA Sample:

			Date Analyzed
☒	Calcium	91.0 mg/l	6/17
☒	Potassium	3.51 mg/l	5/2
☒	Magnesium	24.0 mg/l	6/17
☒	Sodium	127 mg/l	5/2
☒	Bicarbonate	173.9 mg/l	~~5/29~~ 6/28
☒	Chloride	317.1 mg/l	6/1
☒	Sulfate	73.7 mg/l	5/15
☒	Total Solids	680 mg/l	6/6
☒	Bromide	0.0184 mg/l	5/20

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

- NF: Whole sample (no filtration)
- (F): Filtered in field with 0.45u membrane filter
- A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
- A-HNO_3: Acidified with 5ml conc HNO_3/l
- (NA): No acid added

CC 1297

REPORT TO: McQuillan

Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER ~~H-1443~~

DATE RECEIVED 4-30-84

DATE REPORTED _____

Initials

SLD USER CODE NUMBER 57506

Well Location Address Hydro Test Well #2, NE cor. Marland & W. Co. Rd., Hobbs, Lea Co.

Point of Collection pressure tank

Well Owner/User _____

Number of People Drinking Water from Well several employees

Collected 840427 (Date) 9:20 (Time) By McQuillan/Longmire/Ruffner (Name / Agency)

Well Depth 110'

Water Level 28'?

Taste? Odor? Color? Collectors Remarks

pH 6.96

Conductivity (Uncorrected) 700 umho/cm

Temperature 18 °C

Conductivity at 25°C _____ umho/cm

Eh = + 142 mv

PROJECT: Lea Co.

From ___, A-H_2SO_4 Sample:

☐ Nitrate-N+ Nitrite-N	1.91 mg/l	5/15
☐ Ammonia-N	0.04 mg/l	5/25
☐ Chemical oxygen demand	_____ mg/l	_____
☐ _____	3.6	8/84

From ___, A-HNO_3 Sample:

☐ ICAP Scan

☐ Metals by AA (Specify)

From ___, NA Sample:

		Date Analyzed
☐ Calcium	_____ mg/l	_____
☐ Potassium	_____ mg/l	_____
☐ Magnesium	_____ mg/l	_____
☐ Sodium	_____ mg/l	_____
☐ Bicarbonate	_____ mg/l	_____
☐ Chloride	_____ mg/l	_____
☐ Sulfate	_____ mg/l	_____
☐ Total Solids	_____ mg/l	_____
☐ _____		_____

This form accompanies _____ sample(s) marked as follows to indicate field treatment:

NF: Whole sample (no filtration)
F: Filtered in field with 0.45u membrane filter
A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
A-HNO_3: Acidified with 5ml conc HNO_3/l
NA: No acid added

REPORT TO: McQuillan
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

NUMBER HM-493
DATE RECEIVED 4-30-84
DATE REPORTED 6/26/84 mf
Initials
SLD USER CODE NUMBER 59606

Well Location Address Hydro Test Well #2, NE cor. Marland & W. Co Rd Hobbs Lea Co.
RECEIVED
Point of Collection pressure tank
JUN 29 1984
Well Owner/User
LIQUID WASTE/GROUND WATER SURVEILLANCE
Number of People Drinking Water from Well several employees

Collected 840427 (Date) 9:20 (Time) By McQuillan/Longmire/Buffner (Name/Agency)

Well Depth 110'
Water Level 28'?

pH 6.96
Conductivity (Uncorrected) 703 umho/cm
Temperature 18 °C
Conductivity at 25°C umho/cm
Eh = + 142 mv

Taste? Odor? Color? Collectors Remarks

PROJECT: Lea Co.

From ____, A-H_2SO_4 Sample:

- ☐ Nitrate-N+ Nitrite-N ____ mg/l ____
- ☐ Ammonia-N ____ mg/l ____
- ☐ Chemical oxygen demand ____ mg/l ____
- ☐ ____ ____ ____

From F, A-HNO_3 Sample:

- ☒ ICAP Scan
- ☐ Metals by AA (Specify)

From ____, NA Sample:

		Date Analyzed
☐ Calcium	____ mg/l	____
☐ Potassium	____ mg/l	____
☐ Magnesium	____ mg/l	____
☐ Sodium	____ mg/l	____
☐ Bicarbonate	____ mg/l	____
☐ Chloride	____ mg/l	____
☐ Sulfate	____ mg/l	____
☐ Total Solids	____ mg/l	____
☐ ____		____

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

- NF: Whole sample (no filtration)
- F: Filtered in field with 0.45u membrane filter
- A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
- A-HNO_3: Acidified with 5ml conc HNO_3/l
- NA: No acid added

ICAP SCREEN

Lab Number: NM 493

Sample Code: Hydrotest well #2

Date Submitted: 4/30/84

Date Reported: 6/26/84

By: M. Quillan

By: MJ

Determination	Concentration (µg/ml)
Aluminum	<0.10
Barium	0.13
Beryllium	<0.10
Boron	0.24
Cadmium	<0.10
Calcium	170.
Chromium	<0.10
Cobalt	<0.10
Copper	<0.10
Iron	<0.10
Lead	<0.10
Magnesium	28.
Manganese	<0.10
Molybdenum	<0.10
Nickel	<0.10
Silicon	27.
Silver	<0.10
Strontium	1.5
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	<0.10

REPORT TO: Environmental Improvement Division
Environment Department
84-0536-C 968 - Crown Building
New Mexico 87504-0968
ATTENTION: McQuillan
BUREAU: GW & HW

LABORATORY Priority #2
LAB NUMBER 4/30/84 OR536A+B
SLD Users Code No. 59600

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☒ Soil ☐ Other

Water Supply and/or Code No. Hydro Test well #1, NE cor. Maryland & W. Co. Rd.

City & County Hobbs / Lea

Collected (date & time) 840427 09:07 By (name) McQuillan / Longmire / Ruffner

pH= 7.25; Conductivity= 1520 umho/cm at 17.2 °C; Chlorine Residual= not Chtd

Dissolved Oxygen= mg/l; Alkalinity= ; Flow Rate=

Sampling Location, Methods & Remarks (i.e. odors etc.)
sampled from pressure tank; Eh = + 147 mv

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Dennis McQuillan
I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed

Method of Shipment to Laboratory OF-7580.
THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen A; duplicate B; triplicate ; blank(s) ,
and amber glass jug(s) with teflon-lined cap(s) identified as ,
and other container(s) (describe) identified as .
Containers are marked as follows to indicate preservation (circle):
NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice ~~bath.~~ chest.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from Patrick Longmire to Jim Ashby at (location) State Laboratory on (date & time) 840430855 and that the statements in this block are correct.
Disposition of Sample sealed. Seal(s) Intact: Yes ☑ No ☐.
Signature(s) Patrick Longmire Jim Ashby

I (we) certify that this sample was transferred from to at (location) on (date & time) and that the statements in this block are correct.
Disposition of Sample . Seal(s) Intact: Yes ☐ No ☐.
Signature(s)

ANALYSES REQUESTED LAB. NO. ~~org~~ 536

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
	X	GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS			**SPECIFIC COMPOUNDS**

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
		* DETECTION LIMIT	

REMARKS: ~~[illegible]~~ C9 to C12 aliphatics at <10 µg/l detected.

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: (Yes) No . Seal(s) Broken by ~~[illegible] 5/9/84~~ date 5/9/84 .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample
Date(s) of analysis 5/9/84 . Analysts signature [signature]
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: R Meyerheim

REPORT TO: McQuillan
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER WC-1865
DATE RECEIVED 4-30-84
DATE REPORTED 6/10/84 CO
Initials
SLD USER CODE NUMBER 57500

Well Location Address Hydro Test Well #1, NE on Marland & W. Co. Rd., Hobbs, Lea Co.

Point of Collection shop sink

RECEIVED
JUN 14 1984
LIQUID WASTE/GROUND WATER SURVEILLANCE

Well Owner/User

Number of People Drinking Water from Well 0

Collected 840427 (Date) 9:07 (Time)

By McQuillan/Longmire/Ruether (Name / Agency)

Well Depth 40'-50'

pH 7.25

Water Level ~28'?

Conductivity (Uncorrected) 1520 umho/cm

Taste? Odor? Color? Collectors Remarks

Temperature 17.2 °C

Conductivity at 25°C umho/cm

Eh = +147mv

PROJECT: Lea Co.

From ____, A-H_2SO_4 Sample:

- ☐ Nitrate-N^+ Nitrite-N ____ mg/l ____
- ☐ Ammonia-N ____ mg/l ____
- ☐ Chemical oxygen demand ____ mg/l ____
- ☐ ____ ____ ____

From ____, A-HNO_3 Sample:

- ☐ ICAP Scan
- ☐ Metals by AA (Specify)

From F, NA Sample:

			Date Analyzed
☒	Calcium	142 mg/l	5/23
☒	Potassium	9.0~ mg/l	5/2
☒	Magnesium	32.9 mg/l	5/29
☒	Sodium	246 mg/l	5/2
☒	Bicarbonate	348.3 mg/l	5/29
☒	Chloride	326.3 mg/l	6/1
☒	Sulfate	301.2 mg/l	5/15
☒	Total Solids	784 mg/l	6/6
☒	Bromide	0.0197 mg/l	5/20

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

- (NF): Whole sample (no filtration)
- (F): Filtered in field with 0.45u membrane filter
- A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
- A-HNO_3: Acidified with 5ml conc HNO_3/l
- (NA): No acid added

RECEIVED

REPORT TO: McQuillan
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

GROUND WATER/HAZARDOUS WASTE BUREAU

LAB NUMBER WC/1891
DATE RECEIVED 4/30/84
DATE REPORTED _____
Initials
SLD USER CODE NUMBER 59600

Well Location Address Hydro Test Well #1, NE con Marland & W. Co. Rd., Hobbs, Lea Co.

Point of Collection shop sink

Well Owner/User _____

Number of People Drinking Water from Well 0

Collected 840427 (Date) 9:07 (Time)

By McQuillan/Longmire/Ruffner (Name / Agency)

Well Depth 40'-50'

Water Level ~28'?

Taste? Odor? Color? Collectors Remarks

pH 7.25

Conductivity (Uncorrected) 1520 umho/cm

Temperature 17.2 °C

Conductivity at 25°C _____ umho/cm

Eh = +147mv

PROJECT: Lea Co.

From F, A-H_2SO_4 Sample:

			Date Analyzed
☒ Nitrate-N+ Nitrite-N	6.63	mg/l	5/8
☒ Ammonia-N	0.02	mg/l	5/25
☐ Chemical oxygen demand		mg/l	
☒ TOC	4.3	mg/l	8/84

From _____, A-HNO_3 Sample:

☐ ICAP Scan

☐ Metals by AA (Specify)

From _____, NA Sample:

			Date Analyzed
☐ Calcium		mg/l	
☐ Potassium		mg/l	
☐ Magnesium		mg/l	
☐ Sodium		mg/l	
☐ Bicarbonate		mg/l	
☐ Chloride		mg/l	
☐ Sulfate		mg/l	
☐ Total Solids		mg/l	
☐ _____			

This form accompanies _____ sample(s) marked as follows to indicate field treatment:

NF: Whole sample (no filtration)
F: Filtered in field with 0.45u membrane filter
A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
A-HNO_3: Acidified with 5ml conc HNO_3/l
NA: No acid added

SEP 4 1984
GROUND WATER/HAZARDOUS WASTE BUREAU

REPORT TO: McQuillan
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER HM-494
DATE RECEIVED 4-30-84
DATE REPORTED 6/20/84 mj
Initials
SLD USER CODE NUMBER 57600

Well Location Address Hydro Test Well #1, NE cor Marland & W. Co. Rd., Hobbs, Lea Co.
Point of Collection shop sink

RECEIVED
JUN 29 1984
LIQUID WASTE/GROUND WATER SURVEILLANCE

Well Owner/User

Number of People Drinking Water from Well 0

Collected 840427 (Date) 9:07 (Time)
By McQuillan/Longmire/Kuthner (Name/Agency)

Well Depth 40'-50'
Water Level ~28'?

pH 7.25
Conductivity (Uncorrected) 1520 umho/cm
Temperature 17.2 °C
Conductivity at 25°C umho/cm
Eh = +147mv

Taste? Odor? Color? Collectors Remarks

PROJECT: Lea Co.

From ____, A-H_2SO_4 Sample:

☐ Nitrate-N^+ Nitrite-N	mg/l		
☐ Ammonia-N	mg/l		
☐ Chemical oxygen demand	mg/l		
☐			

From F, A-HNO_3 Sample:

☒ ICAP Scan			
☐ Metals by AA (Specify)			

From ____, NA Sample:

		Date Analyzed
☐ Calcium	mg/l	
☐ Potassium	mg/l	
☐ Magnesium	mg/l	
☐ Sodium	mg/l	
☐ Bicarbonate	mg/l	
☐ Chloride	mg/l	
☐ Sulfate	mg/l	
☐ Total Solids	mg/l	
☐		

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

NF: Whole sample (no filtration)
F: Filtered in field with 0.45u membrane filter
A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
A-HNO_3: Acidified with 5ml conc HNO_3/l
NA: No acid added

ICAP SCREEN

Lab Number: NM 494 Sample Code: Hydro test well #1

Date Submitted: 4/30/84 Date Reported: 6/26/84

By: M E Quillan By: MF

Determination	Concentration (µg/ml)
Aluminum	<0.10
Barium	0.13
Beryllium	<0.10
Boron	0.42
Cadmium	<0.10
Calcium	150
Chromium	<0.10
Cobalt	<0.10
Copper	<0.10
Iron	0.16
Lead	<0.10
Magnesium	37.
Manganese	<0.10
Molybdenum	<0.10
Nickel	<0.10
Silicon	29.
Silver	<0.10
Strontium	2.2
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	0.90

REPORT TO: Environment Health Department
84-0535 Management Division
P.O. Box 968 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: McQuillan
BUREAU: GW + HW

LABORATORY SLD priority #2
LAB NUMBER R535 A, B
4/30/84.
SLD Users Code No. 59600

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water ☐ Soil ☐ Other water + sludge

Water Supply and/or Code No. Hydro Test Pit

City & County Hobbs, Lea Co.

Collected (date & time) 840427 09:46 By (name) McQuillan/Longmire/Ruffner

pH=_____; Conductivity=_____umho/cm at_____°C; Chlorine Residual= not c'd

Dissolved Oxygen=_____mg/l; Alkalinity=_____; Flow Rate=_____

Sampling Location, Methods & Remarks (i.e. odors etc.)

Strong organic odor
bailed from pit with PVC bailer

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Dennis McQuillan

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed _____

Method of Shipment to Laboratory OF-7580 Chevy

THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen 09:46A; duplicate 09:46B; triplicate_____; blank(s)_____,
and_____ amber glass jug(s) with teflon-lined cap(s) identified as_____,
and_____ other container(s) (describe)_____ identified as_____.

Containers are marked as follows to indicate preservation (circle):

NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: Sample stored in an ice ~~bath~~ chest.
P-$Na_2O_3S_2$: Sample preserved with 3 mg $Na_2O_3S_2$/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from Patrick Longmire to Jim Ashby at (location) State Laboratory on (date & time) 840430 855 and that the statements in this block are correct.

Disposition of Sample sealed. Seal(s) Intact: Yes ☑ No ☐.

Signature(s) Patrick Longmire Jim Ashby

I (we) certify that this sample was transferred from_____ to_____ at (location)_____ on (date & time)_____ and that the statements in this block are correct.

Disposition of Sample_____. Seal(s) Intact: Yes ☐ No ☐.

Signature(s)_____

ANALYSES REQUESTED LAB. NO.

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

org 535

QUALITATIVE	QUANTATIVE	PURGEABLE SCREEN
		ALIPHATIC HYDROCARBON SCREEN
		AROMATIC HYDROCARBON SCREEN
		HALOGENATED HYDROCARBON SCREEN
	X	GAS CHROMATOGRAPH/MASS SPECTROMETER
		SPECIFIC COMPOUNDS

QUALITATIVE	QUANTATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBONS
		CHLORINATED HYDROCARBON PESTICIDES
		CHLOROPHENOXY ACID HERBICIDES
		HYDROCARBON FUEL SCREEN
		ORGANOPHOSPHATE PESTICIDES
		POLYCHLORINATED BIPHENYLS (PCB's)
		POLYNUCLEAR AROMATIC HYDROCARBONS
		SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
1,2-dichloroethane	4 µg/l		
[redacted]			
Benzene	(230 µg/l)		
Toluene	1300 µg/l		
Ethylbenzene	(920 µg/l)		
o-xylene	6300 µg/l		
		* DETECTION LIMIT	

REMARKS: Many C9 to C12 aliphatics detected.
Value in "( )" represent approximate values only due to large dilution factors.

CETRIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: (Yes) No . Seal(s) Broken by JA ; JAF date 5/9/84 .
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
Date(s) of analysis 5/9/84 . Analysts signature Jim Ashby
Icertify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers Signature: R Meyerhein

WC 1846

REPORT TO: McQuillan
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER ~~HM 184~~
DATE RECEIVED 4/30/84
DATE REPORTED 6/10/84 CQ
Initials
SLD USER CODE NUMBER 57600

RECEIVED
JUN 14 1984
LIQUID WASTE/GROUND WATER SURVEILLANCE

Well Location Address Hydro Test Pit **wastewater**

Point of Collection bailed w/ cubitainer from pit

Well Owner/User

Number of People Drinking Water from Well 0

Collected 840427 (Date) 9:38 (Time)

By McQuillan/Longmire/Ruffner (Name / Agency)

Well Depth

Water Level

Taste? Odor? Color? Collectors Remarks

organic odor; oil floating on water

pH

Conductivity (Uncorrected) umho/cm

Temperature °C

Conductivity at 25°C umho/cm

PROJECT: Lea Co.

Hd = 2.60
G = 1.71

From ____, A-H_2SO_4 Sample:

☐ Nitrate-N^+ Nitrite-N		mg/l	
☐ Ammonia-N		mg/l	
☐ Chemical oxygen demand		mg/l	
☐			

From ____, A-HNO_3 Sample:

☐ ICAP Scan

☐ Metals by AA (Specify)

From NF, NA Sample:

			Date Analyzed
☒ Calcium	34.2	mg/l	5/23
☒ Potassium	2.73	mg/l	5/2
☒ Magnesium	10.9	mg/l	5/29
☒ Sodium	324	mg/l	5/2
☒ Bicarbonate	338.4	mg/l	5/29
☒ Chloride	383.3	mg/l	6/1
☒ Sulfate	68.7	mg/l	5/15
☒ Total Solids	635	mg/l	6/6
☒ Bromide	0.0062	mg/l	5/18

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

(NF): Whole sample (no filtration)
F: Filtered in field with 0.45u membrane filter
A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
A-HNO_3: Acidified with 5ml conc HNO_3/l
(NA): No acid added

REPORT TO: McQuillan

Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

RECEIVED

LOG NUMBER GW 1273

DATE RECEIVED 4/30/84

DATE REPORTED

Initials

SLD USER CODE NUMBER 57600

Well Location Address Hydro Test Pit **wastewater**

Point of Collection bailed w/ cubitainer from pit

Well Owner/User

Number of People Drinking Water from Well 0

Collected 840427 (Date) 9:38 (Time)

By McQuillan/Longmire/Ruffner (Name / Agency)

Well Depth

Water Level

pH

Conductivity (Uncorrected) umho/cm

Taste? Odor? Color? Collectors Remarks

organic odor; oil floating on water

Temperature °C

Conductivity at 25°C umho/cm

PROJECT: Lea Co.

From ___, A-H_2SO_4 Sample:

			Date Analyzed
☐ Nitrate-N+ Nitrite-N	0.40	mg/l	5/8
☐ Ammonia-N	0.06	mg/l	5/25
☐ Chemical oxygen demand		mg/l	
☐	2.4		8/84

From ___, A-HNO_3 Sample:

☐ ICAP Scan

☐ Metals by AA (Specify)

From ___, NA Sample:

			Date Analyzed
☐ Calcium		mg/l	
☐ Potassium		mg/l	
☐ Magnesium		mg/l	
☐ Sodium		mg/l	
☐ Bicarbonate		mg/l	
☐ Chloride		mg/l	
☐ Sulfate		mg/l	
☐ Total Solids		mg/l	
☐			

This form accompanies ___ sample(s) marked as follows to indicate field treatment:

NF: Whole sample (no filtration)
F: Filtered in field with 0.45u membrane filter
A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
A-HNO_3: Acidified with 5ml conc HNO_3/l
NA: No acid added

SEP 4 1984

REPORT TO: McQuillan
Ground Water & Hazardous Waste Bureau
Environmental Improvement Division
Health & Environment Department
P.O. Box 968 - Crown Building
Santa Fe, NM 87504-0968

LAB NUMBER HM-486

DATE RECEIVED 4/30/84

DATE REPORTED 6/25/84 mj
Initials

SLD USER CODE NUMBER 57600

RECEIVED
JUN 29 1984
LIQUID WASTE/GROUND WATER SURVEILLANCE

Well Location Address Hydro Test Pit wastewater

Point of Collection bailed w/ cubitaner from pit

Well Owner/User

Number of People Drinking Water from Well 0

Collected 840427 (Date) 9:38 (Time)

By McQuillan/Longmire/Ruffner (Name / Agency)

Well Depth

Water Level

pH

Conductivity (Uncorrected) umho/cm

Temperature °C

Taste? Odor? Color? Collectors Remarks

organic odor; oil floating on water

Conductivity at 25°C umho/cm

PROJECT: Lea Co.

From ____, A-H_2SO_4 Sample:

☐ Nitrate-N+ Nitrite-N	____ mg/l	____	
☐ Ammonia-N	____ mg/l	____	
☐ Chemical oxygen demand	____ mg/l	____	
☐ ____	____	____	

From NF, A-HNO_3 Sample:

- ☒ ICAP Scan
- ☐ Metals by AA (Specify)

From ____, NA Sample:

		Date Analyzed
☐ Calcium	____ mg/l	____
☐ Potassium	____ mg/l	____
☐ Magnesium	____ mg/l	____
☐ Sodium	____ mg/l	____
☐ Bicarbonate	____ mg/l	____
☐ Chloride	____ mg/l	____
☐ Sulfate	____ mg/l	____
☐ Total Solids	____ mg/l	____
☐ ____		____

This form accompanies 1 sample(s) marked as follows to indicate field treatment:

- NF: Whole sample (no filtration)
- F: Filtered in field with 0.45u membrane filter
- A-H_2SO_4: Acidified with 2 ml conc H_2SO_4/l
- A-HNO_3: Acidified with 5ml conc HNO_3/l
- NA: No acid added

ICAP SCREEN

WASTEWATER

Lab Number: HM 486 Sample Code: Hydro Test Pit

Date Submitted: 4/30/84 Date Reported: 6/25/84

By: M. Quillan By: MF

Determination	Concentration (µg/ml)
Aluminum	0.15
Barium	<0.10
Beryllium	<0.10
Boron	0.25
Cadmium	<0.10
Calcium	40.
Chromium	<0.10
Cobalt	<0.10
Copper	0.15
Iron	0.20
Lead	<0.10
Magnesium	11.
Manganese	<0.10
Molybdenum	<0.10
Nickel	<0.10
Silicon	28.
Silver	<0.10
Strontium	0.32
Tin	<0.10
Vanadium	<0.10
Yttrium	<0.10
Zinc	0.10

4/26/84

Maxine,

@ 4:35 PM, 4/26/84, Dennis McQuillan called from Hobbs about an injection well (rat hole) they'd found down there, unbeknownst to anyone. A lot of private wells around. He wanted to know if they should go over tomorrow & sample it. I said OK by me. He also wanted to talk to a lawyer so I transferred him to Lou Rose (who happened to answer the phone in legal).

Ron C

Dennis McQuillan,
Industrial Inj
26" wide
25-36 ft-deep / Hobbs
rat hole put in
75-78
Industrial well
name of company Hydro Test
H_2O @ 28'
Driller told Dennis about well
Sample tomorrow
4/26/84

Dave,
I found an industrial rathole that is still in use. See me.

Dennis