BW - 22

GENERAL CORRESPONDENCE

YEAR(S):

1996 → 1983

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 761-4525 Fax: (505) 761-4542

October 18, 1996

William J. Lemay, Director
Oil Conservation Division
2040 S. Pacheco
Sante Fe, New Mexico 87505

Dear Mr. Lemay:

This responds to your agency's public notice dated October 1, 1996, regarding the Energy, Minerals and Natural Resources Department Oil Conservation Division's proposal to approve the discharge plans for the three applicants listed below.

(BW-019) - Rowland Trucking Company. Mr. Pete Turner has submitted an application for renewal of the company's approved discharge plan for the Carlsbad Brine Station located in Section 36, Township 22 South, Range 26 East, Eddy County, New Mexico.

(BW-022) - Quality Brine, Inc. Mr. Danny Watson has submitted an application for renewal of the company's approved discharge plan for the Tatum Brine Station located in Section 20, Township 12 South, Range 36 East, Lea County, New Mexico.

The U.S. Fish and Wildlife Service (Service) typically recommends the use of excluding technology (nets, fences, enclosed tanks, etc.) to prevent migratory bird and other wildlife access to any brine or produced water storage ponds, evaporative ponds, open tanks, or lagoons that contain toxic chemicals, or which may harbor a surface oil sheen. During flight, migratory birds may not distinguish between an evaporation or storage pond and a natural waterbody: the artificial waterbody may serve as an "attractive nuisance" if measures are not taken to exclude migratory birds from access.

Our intent is to inform and intercede before any migratory bird deaths occur, since these birds constitute a legally protected resource. Under the Migratory Bird Act Treaty (MBTA), the courts have held that an operator of brine, waste water, or other produced water storage facilities may be held liable for an "illegal take" of migratory birds. An "illegal take" has been interpreted to include accidental poisoning or accumulation of harmful concentrations of contaminants by migratory birds, which might occur as a result of access to the stored water. Hydrocarbon pollutants, for instance, can be carried to the nest on breast feathers, feet, or in nesting materials, where the eggs can subsequently become contaminated, leading to embryo death and reduced hatchability.

We therefore recommend to the Oil Conservation Division (Division) that storage and evaporative ponds, tanks, and lagoons be constructed in a manner that prevents bird access (e.g., netted), or that the applicants demonstrate that the retained waters are "bird-safe" (e.g., can meet New Mexico general water quality standards 1102.B, 1102.F, and 3101.K or 3101.L). If the construction and operation of such structures results in migratory bird deaths and the problem is not addressed, the operators may be held liable under the enforcement provisions of the MBTA. The Service would rather prevent a problem resulting from migratory bird access to contaminated ponds, lagoons, and tanks than take enforcement actions, which are expensive and disruptive to legitimate mineral extraction and production activities.

> **(GW-093) - Burlington Resources.** Mr. Craig Bock has submitted an application for renewal of the company's approved discharge plan for the Rattlesnake Compressor Station located in Section 36, Township 31 North, Range 9 West, San Juan County, New Mexico. Approximately 31 gallons of waste water is produced daily and is stored in above ground open top steel tanks prior to transport to an approved disposal facility.

To assure that the open top tanks remain "bird-free," the Service again recommends the use of an appropriate exclusion methodology on the tanks (nets, fences, enclosed tanks, closed-forced evaporation systems, etc.) to prevent migratory bird and other wildlife access to any waste water that contains toxic chemicals, or which may have a surface oil sheen. Alternately, the applicant or the Division may demonstrate that the waste water is "bird safe," as described above. We also recommend the use of berms around the tanks to help prevent migration of contaminated waters into a surface water of New Mexico during an accidental tank rupture or spill.

Thank you for the opportunity to review and comment on these discharge plan applications. If you have any questions about these comments, please contact Dennis W. Byrnes at (505) 761-4525.

Sincerely,

Jennifer Fowler-Propst
Field Supervisor

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Geographic Manager, New Mexico Ecosystems, U.S. Fish and Wildlife Service, Albuquerque, New Mexico
Senior Resident Agent, U.S. Fish and Wildlife Service, Albuquerque, New Mexico
Migratory Bird Office, U.S. Fish and Wildlife Service, Albuquerque, New Mexico

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 2012 dated 9/23/96,
or cash received on _____ in the amount of $ 50.00
from Danny's Hot Oil
for Quality Brine BW-022
(Facility Name) (OCD No.)
Submitted by: _____ Date: _____
Submitted to ASD by: [signature] Date: 10/18/96
Received in ASD by: [signature] Date: 10/23/96

Filing Fee X New Facility ___ Renewal ___
Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 97

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

2012

DANNY'S HOT OIL SERVICE INC. 9-94
P. O. BOX 682 505-398-3490
TATUM, NM 88267

95-108/1122
7

9-23 19 96

PAY TO THE ORDER OF Oil Conservation Division $ 50.00

Fifty + no/100 DOLLARS

Western Commerce Bank Tatum, NM

$ _____
$ _____

FOR Renewal Filing Fee for Quality Brine Doris Dean

⑈002012⑈ ⑆112201085⑆ 03164763 01⑈

GUARDIAN ® SAFETY ©CLARKE AMERICAN XS

Mailed 9-19-96 DW

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES

(Refer to OCD Guidelines for assistance in completing the application.)

BW-22

☐ NEW ☒ RENEWAL

I. FACILITY NAME: QUALITY BRINE

II. OPERATOR: DANNY WATSON

ADDRESS: p.o. box 682 TATUM, NM 88267

CONTACT PERSON: DANNY WATSON PHONE: (505)398-3490

III. LOCATION: SW /4 SW /4 Section 20 Township 12S Range 36E

Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner of the facility site.

V. Attach a description of the types and quantities of fluids at the facility.

VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.

VII. Attach a description of underground facilities (i.e. brine extraction well).

VIII. Attach a contingency plan for reporting and clean-up of spills or releases.

IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.

X. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

XI. CERTIFICATION

I hereby certify under penalty of law that I have personnaly examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name: Danny Watson Title: Prod/owner

Signature: Danny Watson Date: 9-19-96

COPY

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

QUALITY BRINE
P.O. BOX 682
TATUM,NM 88267

Sept. 19,1996

State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O BOX 2088
Santa Fe, NM 87501

RE: Renewal Quality Brine

Dear Mark;

This is my renewal notice. There is no change in discharge plan. Please let me know if you have any questions.

Sincerely,

Danny Watson

Danny Watson
(505) 398-3490

DANNY'S HOT OIL SERVICE INC. 9-94
P. O. BOX 682 505-398-3490
TATUM, NM 88267

2012

95-108/1122
7

9-23 1996

PAY TO THE ORDER OF Oil Conservation Division $ 50.00

Fifty + no/100 DOLLARS

Western Commerce Bank Hobbs, NM

$ _____
$ _____

FOR Renewal Filing Fee for Doris Dean

COPY

©CLARKE AMERICAN X5
GUARDIAN ® SAFETY

⑈002012⑈ ⑆112201085⑆ 03164763 0⑈

Quality Brine

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(BW-019) - Rowland Trucking Company, Pete Turner, (505) 397-4994, 418 South Grimes, Hobbs, New Mexico, 88240 has submitted an application for renewal of its previously approved discharge plan for the Carlsbad Brine Station, located in the SE/4 NE/4 of Section 36, Township 22 South, Range 26 East, NMPM, Eddy County, New Mexico. Fresh water is injected to an approximate depth of 710 feet and brine water is extracted with an average total dissolved solids concentration of 300,000 mg/l. Ground water most likely to be affected by any accidental discharge is at a depth exceeding 150 feet and has a total dissolved solids content of approximately 1,800 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-022) - Quality Brine, Inc., Danny Watson, (505) 398-3490, P.O. Box 682, Tatum, New Mexico, 88267 has submitted an application for renewal of its previously approved discharge plan for the Tatum Brine Station located in the SW/4 SW/4 of Section 20, Township 12 South, Range 36 East NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2,300 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 30 feet with a total dissolved solids concentration of approximately 700 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-093) - Burlington Resources, Craig Bock, (505) 326-9537, P.O. Box 4289, Farmington, New Mexico 87499-4289, has submitted a discharge application for renewal of its previously approved discharge plan for the Rattlesnake Compressor Station located in the NW/4 NW/4 of Sections 36, Township 31 North, Range 9 West, NMPM, San Juan County, New Mexico. Approximately 31 gallons per day of waste water is stored in above ground open top steel tanks prior to transport to an OCD approved disposal facility. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 1,400 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan renewal applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through

Friday. Prior to ruling on any proposed discharge plan renewals or modifications, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plans based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plans based on the information in the discharge plan renewal applications and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 1st day of October 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

QUALITY BRINE
P.O. BOX 682
TATUM,NM 88267

Sept. 19,1996

State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O BOX 2088
Santa Fe, NM 87501

RE: Renewal Quality Brine

Dear Mark;

This is my renewal notice. There is no change in discharge plan. Please let me know if you have any questions.

Sincerely,

Danny Watson

Danny Watson
(505) 398-3490

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES

(Refer to OCD Guidelines for assistance in completing the application.)

☐ NEW ☒ RENEWAL

I. FACILITY NAME: QUALITY BRINE

II. OPERATOR: DANNY WATSON

ADDRESS: p.o. box 682 TATUM,NM 88267

CONTACT PERSON: DANNY WATSON PHONE: (505)398-3490

III. LOCATION: SW /4 SW /4 Section 20 Township 12S Range 36E

Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner of the facility site.

V. Attach a description of the types and quantities of fluids at the facility.

VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.

VII. Attach a description of underground facilities (i.e. brine extraction well).

VIII. Attach a contingency plan for reporting and clean-up of spills or releases.

IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.

X. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

XI. CERTIFICATION

I hereby certify under penalty of law that I have personnaly examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name: Danny Watson Title: Prod/owner.

Signature: Danny Watson Date: 9-19-96

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

September 11, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-854

Mr. Danny Watson
Quality Brine, Inc.
P.O. Box 682
Tatum, NM 88267

RE: Discharge Plan BW-022 Renewal
Tatum Brine Station
Lea County, New Mexico

Dear Mr. Watson:

On October 9, 1985, the groundwater discharge plan, BW-022, for the Quality Brine, Inc. (Quality) Tatum Brine Station located in the SW/4, SW/4 of Section 20, Township 12 South, Range 36 East, NMPM, Lea County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). The discharge plan was subsequently renewed on March 12, 1992. This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on March 11, 1997.

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 5101.G., if an application for renewal is submitted at least 180 days before the discharge plan expires (on or before September 11, 1996), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Quality has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **Tatum Brine Station** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of $50 plus a flat fee of $690.00 for Brine Extraction Facilities. The $50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable. The flat fee for an approved discharge plan renewal may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Hobbs District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** The following information is enclosed: Application form, Guidelines, and WQCC regulations.

If Quality no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If Quality has any questions, please do not hesitate to contact Mark Ashley at (505) 827-7155.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/mwa

xc: OCD Artesia Office

PS Form **3800**, April 1995

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to

Street & Number

Post Office, State, & ZIP Code

Postage $

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

Return Receipt Showing to Whom, Date, & Addressee's Address

TOTAL Postage & Fees $

Postmark or Date

P 288 258 854

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 17, 1995

Certified Mail
Return Receipt No. Z-765-962-829

Mr. Danny Watson
Quality Brine, Inc.
P.O. Box 682
Tatum, NM 88267

RE: Emergency Catchpit East of Pump House
Quality Brine, Inc.
Tatum, NM

Dear Mr. Watson:

The New Mexico Oil Conservation Division (OCD) has completed a review of the Quality Brine, Inc. February 27, 1995 pit closure letter for the "Emergency Catchpit East of the Pump House." Based on the information provided, your pit closure is approved with the following conditions:

1. The remediation project will conform to the OCD "Unlined Surface Impoundment Closure Guidelines."

2. A closure report of final clean-up will be submitted to the OCD Santa Fe and Hobbs District offices by June 30, 1995.

3. The OCD will be notified at least 72 hours in advance of all closure activities such that the OCD may have the opportunity to witness and/or split samples.

Please be advised that OCD approval does not relieve Quality Brine, Inc. of liability if closure activities determine that contamination exists which is beyond the scope of the closure plan, or if the closure activities fail to adequately remediate contamination at the site. In addition, OCD approval does not relieve Quality Brine, Inc. of liability for compliance with other federal, state or local laws and/or regulations.

If you have any questions regarding this matter, please feel free to contact me at (505) 827-7155.

Sincerely,

Mark Ashley
Environmental Geologist

xc: Jerry Sexton, OCD Hobbs Office
Wayne Price, OCD Hobbs Office

Z 765 962 829

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

UNITED STATES POSTAL SERVICE

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

PS Form **3800**, March 1993

BW-22

Mark Ashley

From: POSTOFFICE
To: Mark Ashley
Subject: Registered: Wayne Price
Date: Thursday, March 16, 1995 7:53PM

[013] ***** CONFIRMATION OF REGISTERED MAIL *****
Your message:

TO: Wayne Price DATE: 03-14-95
SUBJECT: Pit Closure TIME: 15:25

Was accessed on 03-16-95 19:53

Mark Ashley

BW-22

From:	Jerry Sexton
Date sent:	Wednesday, March 15, 1995 8:04AM
To:	Mark Ashley
Subject:	Registered: Jerry Sexton

Your message	
To:	Jerry Sexton
Subject:	Pit Closure
Date:	Tuesday, March 14, 1995 3:21PM
was accessed on	
Date:	Wednesday, March 15, 1995 8:04AM

OIL CONSERVATION DIVISION
RECEIVED
'95 FEB 21 AM 8 52

QUALITY BRINE
P.O. Box 682
TATUM, NM 88267
398-3490

Watson, INC.
20 E. BROADWAY

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: Emergency Catchpit East of Pump House

Dear Mr. Ashley:

First, I need to tell you that Stan Watson is no longer in the business. I will be taking his place.

I would like you to know that I plan to pull out or clean out this pit to pass the (BTEX) and T.P.H. test, also, put soil dug out of pit on an old drilling pit location on site. This old drilling pit has 6-mil plastic. Approximately 3½ to 4' deep and has not been broken to my knowledge (other than the sides to let dry out and once it was dry pushed back in where dug out and now has weeds growing back.)

I propose to put contaminated dirt from pit east of water tanks on old drill pit and land farm it by mixing cow manure with it to help remediation process speed up. I will fill in pit east of water tanks with rocks and material strong enough to hold up heavy equpiment and maybe in the future put in more fresh water tanks.

I have already put 3' dikes around all tanks in use so fresh water cannot run back in pit.

I would like you to know I fully intend to do what I need to comply as long as it is reasonable and fesiable. I don't sell enough brine or fresh water to do anything elaborate.

Sincerely,

Danny Watson

cc: Oil Conservation Hobbs, NM 88240

OIL CONSERVATION DIVISION
RECEIVED

'95 FEB 16 AM 8 52

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☐ Telephone ☒ Personal	Time 2:00 pm	Date 2/13/95

Originating Party	Other Parties
DANNY WATSON - QUALITY BRINE BW-022 TATUM NM	

Subject: Pit CLOSURE LETTER from MARK ASHLEY

Discussion: MR. WATSON REQUESTED INFO ON Pit CLOSURES GAVE HIM Pit CLOSURE GUIDELINES, REQUESTED ANALYTICAL INFO!

ADVISED HIM IN FUTURE HE WILL NEED TO PROVIDE CONTAINMENT for LOADING AREAS!

DISCUSSED DEPTH TO GROUND WATER IS < 50' RANKING SCORE = 20

Conclusions or Agreements: HE IS GOING TO SUBMIT WORK PLAN TO NMOCD - S.F.

Distribution
cc: MARK ASHLEY
JERRY SEXTON

Signed

STATE OF NEW MEXICO OIL CONSERVATION DIVISION
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

95 FEB 9 AM 8 52

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

~~NMOCD~~ Inter-Correspondence

MARK ASHLEY

To: Roger Anderson-Environmental Bureau Chief

From: Wayne Price-Environmental Engineer District I

Date: September 1, 1994

Reference: Brine Stations

Subject: Site Inspections

Comments:

Roger, per your request, please find enclosed some recent brine station inspection reports.

cc: Jerry Sexton-District I Supervisor

Attachments-3

STATE OF NEW MEXICO
NMOCD District I

INTER-OFFICE MEMO

To file: Quality Brine Station

Date: August 23, 1994
Time: 12:30 pm

Telephone call:____ Meeting:___ Other:_X___

"on site inspection"

Person called or attending:

Wayne Price- NMOCD
Danny Watson-owner of brine station
Danny's Hot Oil truck driver

REFERENCE: Quality Brine, Inc DP# BW-022
Tatum NM- sw/4 sw/4 S20-Ts12s-R36e

Subject: Routine Inspection

Comments:

Brine Station has reduced activity due to slow down in drilling. Brine station berms not maintained, would not contain spill.

Present spills are draining to low lying area show on attached plot plan. This area has both oily and salt contaminated dirt. The extent is not know at this time. There is a small dirt pile of oily dirt on site. The low lying area is connected to a 3' deep and approximately 30' long ditch. This ditch is used to drain off any run-off water to percolate into ground.

Checked brine well, valves are aligned properly, fresh water down annuals, brine water up the tubing.

Found old pit area just east of pump house, pit is dry and empty.

There are two crude oil tanks and one large diesel tank on site.

Mr. Watson indicated that the diesel tank is empty. The two oil tanks are used for storage of crude. Mr. watson operates a treating plant near Milnesand NM and uses these tanks as temporary storage. There was a hot oil unit on site at the time connected to the tanks. The driver indicated to me he was treating the oil.

The unloading area near the oil tanks has unloading pots, these were full and running over. Mr. Watson indicated he would empty these.

There is no secondary containment any where on site.

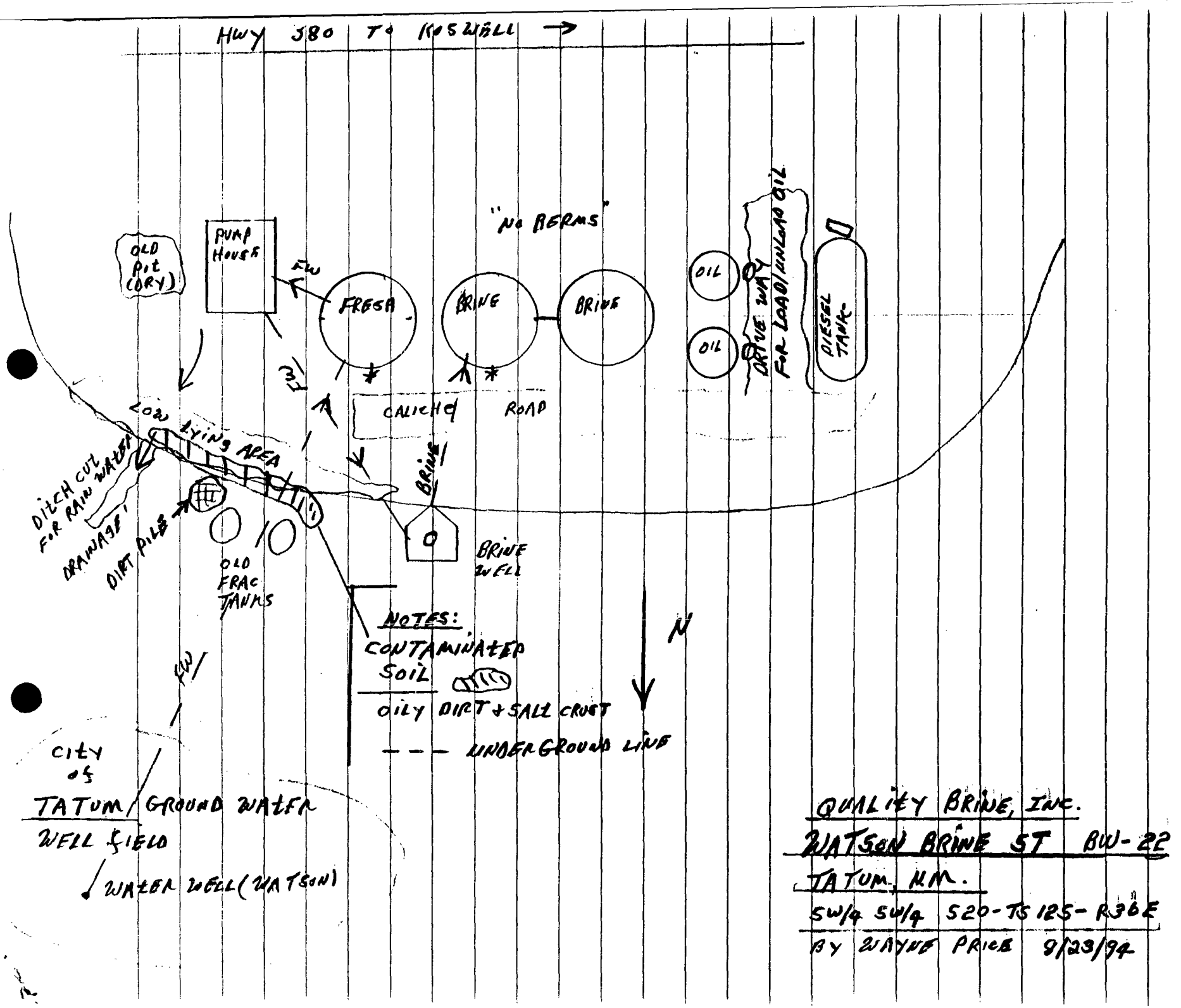
Mr. Watson indicated that business has been so slow, that he cannot afford to do a whole lot of improvements.

We discussed the depth of ground water, He indicated that ground water is only 20 to 30 feet deep. He also showed me the area to the northeast approximately 200-300 yards is where he and the city of Tatum has their fresh water supplies. He indicated that these wells run from 80′ to 160′ deep. He indicated there are different zones of fresh water. He did not know if they are hydraulically connected. These wells are new because of the on going ground water contamination study being conducted by the NMED and TATUM.

I recommended to Mr. Watson that he address the issue of the oily dirt and "no berms" some time in the near future.

Mr. Watson indicated that when the NMED had jurisdiction they forced him to shut down.

Wayne Price
NMOCD Environmental Engineer-District I


HWY 380 TO ROSWELL →
OLD Pit (DRY)
PUMP HOUSE
FW
"No BERMS"
FRESH
BRINE
BRINE
OIL
OIL
DRIVE WAY FOR LOAD/UNLOAD OIL
DIESEL TANK
CALICHE
ROAD
LOW LYING AREA
DITCH CUT FOR RAIN WATER DRAINAGE
DIRT PILE
BRINE
BRINE WELL
OLD FRAC TANKS
NOTES:
CONTAMINATED SOIL
OILY DIRT & SALT CRUST
--- UNDERGROUND LINE
N
FW
CITY OF TATUM / GROUND WATER WELL FIELD
WATER WELL (WATSON)
QUALITY BRINE, INC.
WATSON BRINE ST BW-22
TATUM, N.M.
SW/4 SW/4 S20-T6 12S-R36E
BY WAYNE PRICE 9/23/94

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505

New Mexico DRUG FREE It's a State of Mind!

Z 765 962 815

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

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

PS Form 3800, March 1993

January 30, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-815

Mr. Stan Watson
Quality Brine, Inc.
P.O. Box 75
Tatum, NM 88267

RE: Emergency Catchpit East of Pump House
Quality Brine, Inc.
Tatum, NM

Dear Mr. Watson:

The New Mexico Oil Conservation Division (OCD) inspected your facility on January 24, 1995. At that time the emergency catchpit to the east of pump house had approximately 6 inches of fluid (water and oil) present in the pit. According to the most recent discharge plan renewal dated March 12, 1992, the emergency catchpit was to be closed by March 12, 1993. The OCD requires that you submit a work plan for closure of the pit by March 1, 1995.

If there are any questions on this matter, please contact me at (505) 827-7155.

Sincerely,

Mark Ashley
Environmental Geologist

xc: Jerry Sexton, OCD Hobbs Office
Wayne Price, OCD Hobbs Office

VILLAGRA BUILDING - 408 Galisteo
Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830
Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

2040 South Pacheco
Office of the Secretary
827-5950
Administrative Services
827-5925
Energy Conservation & Management
827-5900
Mining and Minerals
827-5970
Oil Conservation
827-7131

1/24 Quality Brine Tatum Station

arrived at 1645 hrs.

inspected pit directly east of pump house

pit had approx 4-6" of fluid (water & oil)

hydrocarbon stain on walls show I recently was approx 2-3 feet deep with fluid

looks like a trench was washed out into the pit

Most of pit fluids appear to have seeped into ground

Shallow ground water in area

STATE OF NEW MEXICO
NMOCD District I

INTER-OFFICE MEMO

To file: Quality Brine Station

Date: August 23, 1994
Time: 12:30 pm

Telephone call:____ Meeting:___ Other:_X___

"on site inspection"

Person called or attending:

Wayne Price- NMOCD
Danny Watson-owner of brine station
Danny's Hot Oil truck driver

REFERENCE: Quality Brine, Inc DP# BW-022
Tatum NM- sw/4 sw/4 S20-Ts12s-R36e

Subject: Routine Inspection

Comments:

Brine Station has reduced activity due to slow down in drilling. Brine station berms not maintained, would not contain spill.

Present spills are draining to low lying area show on attached plot plan. This area has both oily and salt contaminated dirt. The extent is not know at this time. There is a small dirt pile of oily dirt on site. The low lying area is connected to a 3' deep and approximately 30' long ditch. This ditch is used to drain off any run-off water to percolate into ground.

Checked brine well, valves are aligned properly, fresh water down annuals, brine water up the tubing.

Found old pit area just east of pump house, pit is dry and empty.

There are two crude oil tanks and one large diesel tank on site.

CC: CHRIS EUSTICE

Mr. Watson indicated that the diesel tank is empty. The two oil tanks are used for storage of crude. Mr. watson operates a treating plant near Milnesand NM and uses these tanks as temporary storage. There was a hot oil unit on site at the time connected to the tanks. The driver indicated to me he was treating the oil.

The unloading area near the oil tanks has unloading pots, these were full and running over. Mr. Watson indicated he would empty these.

There is no secondary containment any where on site.

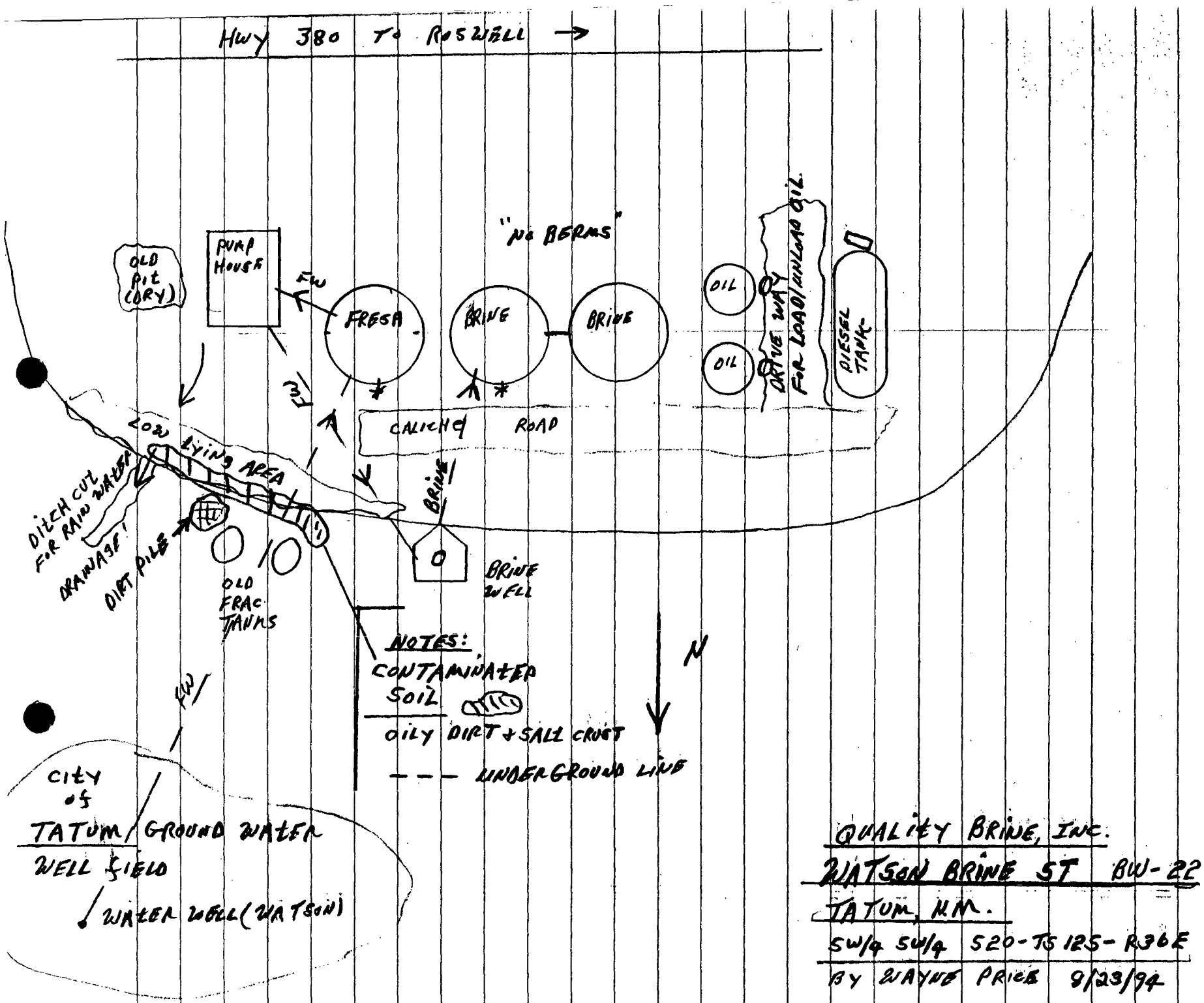
Mr. Watson indicated that business has been so slow, that he cannot afford to do a whole lot of improvements.

We discussed the depth of ground water, He indicated that ground water is only 20 to 30 feet deep. He also showed me the area to the northeast approximately 200-300 yards is where he and the city of Tatum has their fresh water supplies. He indicated that these wells run from 80' to 160' deep. He indicated there are different zones of fresh water. He did not know if they are hydraulically connected. These wells are new because of the on going ground water contamination study being conducted by the NMED and TATUM.

I recommended to Mr. Watson that he address the issue of the oily dirt and "no berms" some time in the near future.

Mr. Watson indicated that when the NMED had jurisdiction they forced him to shut down.

Wayne Price
NMOCD Environmental Engineer-District I


HWY 380 TO ROSWELL →
OLD PIT (DRY)
PUMP HOUSE
FW
"No BERMS"
FRESH
BRINE
BRINE
OIL
OIL
DRIVE WAY FOR LOAD/UNLOAD OIL
DIESEL TANK
CALICHE ROAD
FW
202 LYING AREA
DITCH CUT FOR RAIN WATER DRAINAGE
DIRT PILE
BRINE
BRINE W FILL
OLD FRAC TANKS
NOTES:
CONTAMINATED SOIL
OILY DIRT & SALT CRUST
--- UNDERGROUND LINE
N
FW
CITY OF TATUM / GROUND WATER WELL FIELD
WATER WELL (WATSON)
QUALITY BRINE, INC.
WATSON BRINE ST BW-22
TATUM, N.M.
SW/4 SW/4 S20-T5 125-R36E
BY WAYNE PRICE 9/23/94

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 909 dated 11/5/92,
or cash received on 11/6/92 in the amount of $ 90.00
from Quality Brine Station
for Tatum Brine Station (Facility Name) BW-22 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kathy Brown Date: 11/6/92
Received in ASD by: Sherry Gonzales Date: 11/6/92
Filing Fee ___ New Facility ___ Renewal X
Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment X

#7 - total to date $690.00
balance 0

909

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

MAIN OFFICE
First National Bank of Lea County
Hobbs, New Mexico 88240

95-199
1122

11/5/ 19 92

PAY *******Ninety Dollars and No/100*** DOLLARS $*90.00*

TO THE ORDER OF
Water Quality Management
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87504

Dany Watson

⑈000909⑈ ⑆122201991⑆ ⑈0300784 7⑈01

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
11/5/92	909	Payment: Bal -0-				90.00

V-4

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 906 dated 10-15-92
or cash received on 11/6/92 in the amount of $ 100.00
from Quality Brine
for Tatum Brine Station (Facility Name) BW-22 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kathy Brown Date: 11/6/92
Received in ASD by: Sherry Gonzales Date: 11/6/92
Filing Fee ___ New Facility ___ Renewal X
Modification ___ Other _____ (specify)
Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.
Full Payment ___ or Annual Increment X

#6 - total to date $600.
balance $50

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

MAIN OFFICE
First National Bank of Lea County
Hobbs, New Mexico 88240

906

10-15 1992

95-199
1122

PAY One hundred + no/100 DOLLARS $ 100.00

TO THE ORDER OF
Water Quality Management
P.O. Box 2088
State Land Office Building
Santa Fe, N.M. 87504

⑈000906⑈ ⑆122019941⑆ ⑈0300784701

DELUXE CHECK PRINTERS

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
10/15/92	906	Payment : Bal 90.00				100.00

V-4

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 901 dated 9/2/92,
or cash received on 9/21/92 in the amount of $ 100.00
from Quality Brine
for Tatum Brine Station (Facility Name) BW-22 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kathy Brown Date: 9/21/92
Received in ASD by: Kathy C Morton Date: 9/21/92
Filing Fee ___ New Facility ___ Renewal X
Modification ___ Other _____ (specify)
Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.
Full Payment ___ or Annual Increment X
#5 - total to date $500
balance $190

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

MAIN OFFICE
First National Bank of Lea County
Hobbs, New Mexico 88240

901

95-199
1122

9/21 1992

PAY ** One Hundred Dollars and No/100** DOLLARS $ **100.00*

TO THE ORDER OF
Water Quality Management
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87504

⑈000901⑈ ⑆112201991⑆ ⑈0300784701⑈

DELUXE CHECK PRINTERS

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BEL
IF NC RRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIR

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
9/2/92	901	Payment: Bal 190.00				100.00

V-4

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 898 dated 8/12/92,
or cash received on 8/24/92 in the amount of $ 100.00
from Quality Brine
for Tatum Brine Station (Facility Name) BW-22 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kay Anderson Date: 8/24/92
Received in ASD by: Kathy C. McCoy Date: 8/24/92
Filing Fee ___ New Facility ___ Renewal X
Modification ___ Other _____ (specify)
Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.
Full Payment ___ or Annual Increment X
#4 - total to date $400.00

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

First National Bank of Lea County
Hobbs, New Mexico 88240

898

95-199
1122

8/12/92 19

PAY One Hundred dollars and No/100** DOLLARS $*100.00*

TO THE ORDER OF
Water Quality Management
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87504

⑈000898⑈ ⑆112201991⑆ ⑈0300784701

DELUXE CHECK PRINTERS

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
8/12/92	898	Installment Paym				100.00

V-4

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. 893 dated 7/16/92,
or cash received on 7/24/92 in the amount of $ 100.00
from Quality Brine
for Quality Brine-Tatum Station (Facility Name) BW-22 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kathy Brown Date: 7/24/92
Received in ASD by: Sherry Gonzales Date: 7/24/92
Filing Fee ___ New Facility ___ Renewal X
Modification ___ Other _____ (specify)
Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.
Full Payment ___ or Annual Increment X
$100 3 of 5 total to date $300

893

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

MAIN OFFICE
First National Bank of Lea County
Hobbs, New Mexico 88240

95-199
1122

7/16/ 1992

PAY **One Hundred dollars and No/100---------- DOLLARS $**100.00**

TO THE ORDER OF
Water Quality Management
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87504

⑈000893⑈ ⑆122201991⑆ ⑈0300784701⑈

DELUXE CHECK PRINTERS

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
7/16/92	893	Installment Payment				100.00

V-4

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 889 dated 6/18/92,
or cash received on 6/23/92 in the amount of $ 100.00
from Quality Brine
for Tatum Station (Facility Name) BW-22 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Roger Anderson Date: 6/23/92
Received in ASD by: _____ Date: _____

Filing Fee ____ New Facility ____ Renewal X
Modification ____ Other _____ (specify)

Organization Code 521.07 Applicable FY 80

To be deposited in the Water Quality Management Fund.

Full Payment ____ or Annual Increment X

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

MAIN OFFICE
First National Bank of Lea County
Hobbs, New Mexico 88240

889

6-18 1992

95-199
1122

PAY One Hundred + no/100 DOLLARS $100.00

TO THE ORDER OF
Water Quality Management
P.O. Box 2088
State Land office Building
Santa Fe, N.M. 87504

Stan Watson

⑈000889⑈ ⑆112201991⑆ ⑈0300784 7⑈01

DELUXE CHECK PRINTERS

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
6/18/92	889	Installment Payment				100.00

V-4

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 883 dated 4/8/92,
or cash received on 4/13/92 in the amount of $ 100.00
from Quality Brine
for Tatum Station BW-22
(Facility Name) (DP No.)
Submitted by: Roger Anderson Date: 4/13/92
Submitted to ASD by: _____ Date: _____
Received in ASD by: _____ Date: 4/13
Filing Fee ___ New Facility ___ Renewal X
Modification ___ Other _____
(specify)
Organization Code 53107 Applicable FY 86

To be deposited in the Water Quality Management Fund.
Full Payment ___ or Annual Increment X

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

MAIN OFFICE
First National Bank of Lea County
Hobbs, New Mexico 88240

883

95-199
1122

4/8 19 92

PAY ** One Hundred dollars and NO/100** DOLLARS $*100.00*

TO THE ORDER OF
NMED-Water Quality Management
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87504

⑈000883⑈ ⑆122201991⑆ ⑈0300784 7⑈01

DELUXE CHECK PRINTERS

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
4/8/92	883	Installment Payment BW-22				100.00

V-4

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. 882 dated 4/8/92,
or cash received on 4/13/92 in the amount of $ 50.00
from Quality Brine
for Tatum Station (Facility Name) BW-22 (DP No.)
Submitted by: Roger A Anderson Date: 4/13/92
Submitted to ASD by: _____ Date: _____
Received in ASD by: [signature] Date: 4/13

Filing Fee X New Facility ___ Renewal ___
Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 80

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

QUALITY BRINE
P. O. BOX 5967 393-0762
HOBBS, N. M. 88241

MAIN OFFICE
First National Bank of Lea County
Hobbs, New Mexico 88240

882

4/8 19 92

95-199
1122

PAY ** Fifty Dollars and NO/100** DOLLARS $*50.00*

TO THE ORDER OF
NMED-Water Quality Management
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87504

[signature]

⑈000882⑈ ⑆111220199⑆ ⑈0300784701

DELUXE CHECK PRINTERS

QUALITY BRINE

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
4/8/92	882	Filing Fee Bw-22				50.00

V-4

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

New Mexico DRUG FREE It's a State of Mind!

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

March 12, 1992

CERTIFIED MAIL
RETURN RECEIPT NO. P-670-683-504

Mr. Stan Watson
Quality Brine, Inc.
P. O. Box 75
Tatum, New Mexico 88267

RE: Approval of Discharge Plan BW-22
Quality Brine, Inc., Tatum Brine Station
Lea County, New Mexico

Dear Mr. Watson:

The **discharge plan renewal BW-22 for the Quality Brine, Inc. Tatum Station** located in the SW/4 SW/4, Section 20, Township 12 South, Range 36 East, NMPM, Lea County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The renewal application consists of the original discharge plan as approved October 9, 1985, and the renewal application dated October 3, 1991.

The discharge plan renewal was submitted pursuant to Section 5-101.B.3 of the New Mexico Water Quality Control Commission Regulations. It is approved pursuant to Sections 5-101.A and 3-109.C. Please note Sections 3-109.E and 3-109.F which provide for possible future amendments or modifications of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface water, ground water, or the environment which may be actionable under other laws and/or regulations.

The monitoring and reporting shall be as specified in the enclosed attachment. 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." Pursuant to Section 3-107.C you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3-109.G.4, this plan is for a period of five (5) years. This approval will expire March 11, 1997, and you should submit an application for renewal in ample time before this date. Note that under Section 5-101.G of the regulations, if a discharger submits a discharge plan renewal application at least 180 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved.

As previously stated in the OCD letter dated October 29, 1991, the discharge plan renewal application for the Quality Brine, Inc., Tatum Brine Station is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of fifty (50) dollars plus one-half of the flat fee or six-hundred and ninety (690) dollars.

The $50 filing fee has not been received by the OCD and is due upon receipt of this letter. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval. The flat fee (total payment or installment) is due upon receipt of this letter.

Please make all checks out to the **NMED - Water Quality Management** and send to the OCD Santa Fe Office.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

William J. LeMay
Director

WJL/kmb

Attachment

cc: Chris Eustice - OCD Hobbs Office

ATTACHMENT TO DISCHARGE PLAN BW-22 APPROVAL
QUALITY BRINE INC., TATUM BRINE STATION
MONITORING AND REPORTING REQUIREMENTS

1. Payment of Discharge Plan Fees: The $50 filing fee and the $690 flat fee (either total payment or installment) will be paid upon receipt of this approval letter.

2. Mechanical Integrity Testing: An annual mechanical integrity test (MIT) will be conducted on the brine well and the results submitted to the OCD Santa Fe Office. An MIT isolating the casing from the formation will be conducted within 1-1/2 years from receipt of this approval letter.

3. Injection/Production Volumes: A quarterly report will be submitted listings of the volume of fluids injected and produced beginning with the second quarter (April-June) 1992. The report will be submitted to the OCD Santa Fe Office at the end of each quarter.

4. Fresh Water Analyses: Quality Brine has committed to quarterly sampling of the Al Griffin, Danny Watson, and Synergy Gas Products wells for chlorides and total dissolved solids (TDS). Because of the current sampling results, the nonexistence of any pits or ponds, and the requirement for annual MIT's, the OCD will allow the sampling schedule to be decreased to once every 5 years or at the time of your discharge plan renewal. The OCD has received your January 1992 analyses of these wells and does not require another analysis until your next discharge plan renewal application is submitted.

5. Removal of Contaminated Soils: The stained soils around the decommissioned tank containing tank bottoms will be excavated and disposed of at an OCD approved disposal facility within 6 months from receipt of this letter.

6. Containment of Spills: Adequate containment will be maintained around the loading valves of all tanks. The containment will be inspected and maintained to prohibit leaks, spills and overflows. Berms will be maintained around all tanks (other than freshwater) to contain one-third greater than the volume of the largest tank or all interconnected tanks.

7. Closure of Emergency Pit: Quality Brine will close the emergency pit by removing all trash and backfilling with clean soil within one year from receipt of this letter.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time	Date
	8:00 A.M.	March 9, 1992

Originating Party	Other Parties
Stan Watson	Kathy Brown
Quality Brine	OCD

Subject: Returning Call: DP Approval - need to get quarterly volumes of injected vs. produced fluids

Discussion: Told Stan we have to have quarterly injection/production volumes because they are required by the EPA (Class III CFR Reqs). He said he take his meter reading at the well head (fresh water well) and subtract out fresh water sold & in the tanks at the end of each quarter. For produced brine he said he'd use his sales figures. Also, asked about removal of the contaminated soils. He said ~~he~~ he had contacted CRI, but was trying to see if he could provide his own trucking to save the trucking costs ($300-$400).

Conclusions or Agreements: DP ready to approve with conditions.

Distribution

Signed Kathy Brown

QUALITY BRINE
DP RENEWAL UPDATE
(as of 1/30/92)

A. Had spoken with Stan Watson the first week of January 1992 about remaining DP renewal requirements. He said he'd get the materials in as soon as possible. Also, asked if he could send an analysis of aromatics from his water well performed by the NMED in January 1991. Told him that was fine. He also said that the analyses for TDS and chlorides for the 3 required wells and the remaining analyses for aromatics were in the process of being sampled and analyzed. Would send them as soon as available.

B. Telephoned Stan Watson on 01/30/92 to discuss remaining DP renewal requirements. As of this point have recieved the aromatic analysis for the Watson water well and the TDS and chloride analyses for the 3 required wells.

1. Need to run an MIT before renewal and commit to running a positive pressure test within the next 1-1/2 years.
Did 10-2-91 Will submit commitment

2. Is all your produced fresh water injected for brine production? If not, need to submit report of produced feshwater plus sold freshwater, and also report sales figures for produced brine on a quarterly basis (listed by month). OR, could submit monitoring of injection pressur and either flow rate or volume recorded semi-monthly.

3. Only other analyses needed are for the aromatics for Al Griffin and Synergy Gas Well (Union Gas). Can drop your sampling schedule of quarterly water analyses for TDS and chlorides down to annual testing.
OK

4. Old caliche pit is O.K. Viewed the soils around it on last inspection trip (Nov. 1991) and they are not oil-stained.
OK

5. The stained soils around the old tank containing tank bottoms still need to be excavated and disposed of. If there is nothing left in the tank then it can be left in place.
Have contract w/ CRI

6. Still need the $50 filing fee and will need the flat fee of $690 when the plan is approved.

STATE OF NEW MEXICO
County of Bernalillo ss

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the **Albuquerque Journal** , and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chaper 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for 1 times, the first publication being on the 9 day of Dec., 1991, and the subsequent consecutive publications on ....., 1991.

Thomas J. Smithson

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 9 day of Dec., 1991.

PRICE $ 50.82

Statement to come at end of month.

ACCOUNT NUMBER C 81184

OFFICIAL SEAL
Bernadette Ortiz
BERNADETTE ORTIZ
NOTARY PUBLIC-NEW MEXICO
MY COMMISSION EXPIRES 12-18-93

LA-22-A (R-12/91)

OIL CONSERVATION DIVI
RECEIVED
'91 DEC 10 AM 9

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application and renewal application have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-68) - Williams Field Services Company, Sandy Fishler, Environmental Specialist, P.O. Box 58900, Salt Lake City, Utah 84158-0900, has submitted a discharge plan application for their Simms Mesa Compressor Station located in the NW/4 NE/4, Section 22, Township 30 North Range 7 West, NMPM, Rio Arriba County, New Mexico. Approximately 75 gallons per day of waste water will be stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 160 feet with a total dissolved solids concentration estimated to range from 600 to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface wil be managed.

(GW-1) - Bloomfield Refining Company, David Roderick, Refinery Manager, P.O. Box 159, Bloomfield, New Mexico 87413, has submitted a renewal application for the previously approved discharge plan for its Bloomfield Refinery located in the NW/4 SE/4 and the S/2 NE/4 and the N/2 NE/4 SE/4 of section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of section 28 Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. The renewal application consists of an evaluation proposal of the refinery waste water system with the objective of eliminating all unlined storage facilities. Groundwater most likely to be affected by any accidental spills is at a depth ranging from 10 to 30 feet and is a water zone directly caused by seepage from Hammond Ditch. The ditch water has a total dissolved solids concentration of approximately 200 mg/l. The previously approved discharge plan addresses how spills, leaks, and other accidental discharges to be surface will be managed.

(GW-74) - Halliburton Company, Matt D. Ratliff, Environmental Engineer, P.O. Drawer 1431, Duncan, Oklahoma 73536-0100, has submitted a discharge plan application for its Hobbs Service Facility located in Section 7, Township 18 South, Range 39 East. NMPM, Lea County, New Mexico. Approximately 135 gallons per day of waste water is stored in below grade fiberglass tanks prior to disposal in an OCD approved offsite disposal facility. Groundwater most likely to be affected by any accidental spills is at a depth of approximately 30 feet with a total dissolved solids concentration ranging from 300 to 600 mg/l. The application addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-15) - Marathon Road Water Station, C. W. Trainer, 8090 E. Kail Dr., Scottsdale, Arizona 85260, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facity. The Marathon Road Water Station is located in the SW/4 SE/4, Section 25, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 1930 to 2400 feet and brine is extracted with an average total dissolved solids concentrations of about 321,080 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 20 to 50 feet with a total dissolved solids concentrantion ranging from 500 to 3500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-22) - Quality Brine, Inc., Stan Watson, P.O. Box 75, Tatum, New Mexico 88267, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Quality Brine Water Station is located in the SW/4 SW/4, Section 20, Township 12 South, Range 36 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 to 2800 feet and brine is extracted with an average total dissolved solids concentration of about 350,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 30 to 40 feet withs total dissolved solids concentration ranging from 700 to 800 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Consevation Division at the address given above. The discharge plan application may be viewed at the the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 21st day of October, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY, Director

Journal, December 9, 1991

Affidavit of Publication

STATE OF NEW MEXICO)

) ss.

COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Notice Of Publication

and numbered .... in the .... Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of the week, for one (1) ~~consecutive~~ week~~s~~ beginning with the issue of October 30, 19 91 and ending with the issue of October 30, 19 91

And that the cost of publishing said notice is the sum of $ 60.67 which sum has been (Paid) (~~Assessed~~) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 12th day of November, ~~19~~ 91

[illegible]

Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 94

LEGAL NOTICE
NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application and renewal application have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505)827-5800:

(GW-68) - Williams Field Services Company, Sandy Fishler, Environmental Specialist, P.O. Box 58900, Salt Lake City, Utah 84158-0900, has submitted a discharge plan application for their Simms Mesa Compressor Station located in the NW/4 NE/4, Section 22, Township 30 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. Approximately 75 gallons per day of wastewater will be stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 160 feet with a total dissolved solids concentration estimated to range from 600 to 900 mg/1. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-1) - Bloomfield Refining Company, David Roderick, Refinery Manager, P.O. Box 159, Bloomfield, New Mexico 87413, has submitted a renewal application for the previously approved discharge plan for its Bloomfield Refinery located in the NW/4 SE/4 and the S/2 NE/4 and the N/2 NE/4 SE/4 of section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of section 26, Township 29 North, Range 11 West, NMPM, San Juan County New Mexico. The renewal application consists of an evaluation proposal of the refinery waste water system with the objective of eliminating all unlined storage facilities. Groundwater most likely to be affected by any accidental spills is at a depth ranging from 10 to 30 feet and is a water zone directly caused by seepage from Hammond Ditch. The ditch water has a total dissolved solids concentration of approximately 200 mg/1. The previously approved discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-74) - Halliburton Company, Matt D. Ratliff, Environmental Engineer, P.O. Drawer 1431, Duncan, Oklahoma 73536-0100, has

Facility located in Section 7, Township 18 South, Range 39 [illegible] NMPM, Lea County, New [illegible]co. Approximately 135 gallons per day of waste water is stored in below grade fiberglass tanks prior to disposal in an OCD approved offsite disposal facility. Groundwater most likely to be affected by any accidental spills is a depth of approximately 30 feet with a total dissolved solids concentration ranging from 300 to 600 mg/1. The application addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-15) - Marathon Road Water Station, C.W. Trainer, 8090 E. Kalil Dr., Scottsdale, Arizona, 85260, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Marathon Road Water Station is located in the SW/4 SE/4, Section 25, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 1930 to 2400 feet and brine is extracted with an average total dissolved solids concentrations of about 321,080 mg/1. Groundwater most likely to be affected by an accidental discharge is at a depth of 20 to 50 feet with a total dissolved solids concentration ranging form 500 to of 3500 mg/1. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-22) - Quality Brine, Inc., Stan Watson, P.O. Box 75, Tatum, New Mexico, 88267, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Quality Brine Water Station is located in the SW/4 SW/4, Section 20, Township 12 South, Range 36 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 to 2900 feet and brine is extracted with an average total dissolved solids concentration of about 350,000 mg/1. Groundwater most likely to be affected by an accidental discharge is at a depth of 30 to 40 feet with a total dissolved solids concentration ranging from 700 to 800 mg/1. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed

Conservation Division sh allow at least thirty (30) da after the date of publication this notice during whi comments may be submitt to him and public hearing m be requested by any interest person. Requests for pub hearing shall set forth t reasons why a hearing shou be held. A hearing will be he if the Director determines the is significant public interes

If no public hearing is he the Director will approve disapprove the proposed pl based on information availab If a public hearing is held, t director will approve disapprove the proposed pl based on information in the p and information submitted the hearing.

GIVEN under the Seal New Mexico Oil Conservati Commission at Santa Fe, N Mexico, on this 21st day October, 1991.

STATE OF NEW MEXIC
OIL CONSERVATIC
DIVISIC
WILLIAM J. LEMA
Direc
SEAL

Published in the Lovington Da Leader October 30, 1991.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

October 29, 1991

CERTIFIED MAIL
RETURN RECEIPT NO. P-106-675-374

Mr. Stan Watson
Quality Brine, Inc.
P. O. Box 75
Tatum, New Mexico 88267

RE: **Discharge Plan BW-22**
Quality Brine, Inc., Tatum Brine Station

Dear Mr. Watson:

The Oil Conservation Division (OCD) received and is in the process of reviewing the above referenced discharge plan renewal application. The following comments and requests for additional information are based on review of the application, dated September 25, 1991. The comments are numbered according the original OCD discharge plan renewal notification dated July 22, 1991.

1. Transfer of Commitment

The OCD acknowledges that Quality Brine will report all unauthorized discharges to the OCD within 48 hours of the event (WQCC Rule 5-208).

2. Mechanical Integrity Testing

The OCD Hobbs Office does not have a copy of your mechanical integrity test (MIT) for last year (1990?) as stated in your renewal application. However, you still need to perform a current (1991) MIT prior to approval of your renewal application. If the immediate test is performed using the open-hole method, then a pressure test isolating the casing from the formation is required within the next 1 1/2 years. The OCD requires a commitment from Quality Brine that you will perform annual MIT's and that you will conduct a casing isolation pressure test within the next 1 1/2 years.

I will be in the vicinity of your brine facility during the week of November 4th. If you could schedule your MIT during that week I will be available to witness it. I will contact you verbally to discuss a date and time.

3. Volumes of Injection Fluids and Brine

As stated in the original OCD discharge plan renewal notification, the OCD requires quarterly report listings, by month, of the volume of fluids injected and produced. You have informed the OCD that Quality Brine has a meter at the freshwater supply well, but no meter at the injection pump. If all produced freshwater is injected for brine production (ie. you do not sell freshwater), then you can submit required injection volumes from your freshwater meter readings. For production volumes, you should submit your sales figures. Please provide a commitment to submit the required monthly injection/production volumes on a quarterly basis.

4. Quarterly Fresh Water Analyses

The chemical analyses submitted by Quality Brine for the 5 freshwater wells is not acceptable. The water analysis reports submitted were for chlorides only. Quality Brine committed to analyze quarterly for both total dissolved solids (TDS) **and** chlorides in 3 freshwater wells (Griffin, Watson, and Union/Buckeye). In addition, the OCD required that the current quarterly water samples be analyzed for dissolved aromatic hydrocarbons (ie. benzene, toluene, ethylbenzene, and xylene).

Quality Brine is required to resubmit the water analyses for the Al Griffin, Danny Watson and Union Gas (formerly Buckeye) wells. Analyses will be for TDS, chlorides, and aromatic hydrocarbons. The water analysis reports must be signed by the person who performs the analysis. The reports that you submitted were not signed and are therefore not valid.

Quality Brine must continue to analyze the above 3 freshwater wells for TDS and chlorides on a quarterly basis. Results will be submitted to the OCD within 30 days of analysis. If there is no evidence of groundwater contamination by aromatic hydrocarbons then no additional analyses for these constituents will be required.

5. Waste Oil Storage Pit

Our records show that you closed a waste oil storage pit in August of 1985 as requested by the New Mexico Environmental Improvement Division. Is this the same pit located on the north side of your facility that you state is "nothing more than a caliche pit"? Regardless of the source of the stained soils, they must be excavated and disposed of at an approved OCD disposal facility. The pit may be left open at this time, but if future

inspections indicate that it is being used for disposal of unauthorized wastes it will be required to be properly closed.

6. Leaking Tank (Northeast Corner of Facility)

Quality Brine has committed to removing this leaking tank containing tank bottoms. The stained soils around this tank must be excavated and disposed of properly. Since the stained soils were contaminated by an RCRA exempt material (tank bottoms leaking from the tank) the soils are also exempt. The soils must be excavated and taken to an approved OCD disposal facility. Submit a schedule for removing the leaking tank and address how the stained soils will be remediated.

7. Leaking Tanks (West Side of Facility)

Placement of plastic containers beneath the loading valves is an acceptable containment method at this time. However, if future inspections reveal that this method does not contain spilled fluids than the OCD will require an alternative method. If the tanks themselves are leaking they need to be repaired, replaced or removed. The OCD acknowledges that Quality Brine will construct berms around all tanks to contain 1 1/3 the volume of the largest tank or all interconnected tanks.

8. Saddle Tank

The OCD requires that all saddle tanks have a pad and curb beneath them to contain spills. Quality Brine has proposed to place a plastic container beneath the loading valve. The OCD will accept this method of containment at this time. However, if future inspections reveal that this does not properly contain spilled fluids then Quality Brine will be required to install a pad and curb beneath this tank.

9. Brine Loading Area

Refer to comment for item number 7.

10. Emergency Pit

The OCD acknowledges that Quality Brine will close this pit by removing all trash and backfilling with clean soil.

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund." Enclosed is a copy of the WQCC Rule 3-114 effective as of August 18, 1991.

The Oil Conservation Division (OCD) requested a discharge plan renewal application for the Quality Brine Inc., Tatum Brine Station on July 22, 1991, prior to the effective date of the WQCC Rule 3-114. The OCD received your discharge plan (BW-22) renewal application on October 8, 1991, which is after the effective date of the WQCC discharge plan fee Regulation 3-114.

The discharge plan renewal application for the Quality Brine Inc., Tatum Brine Station is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of fifty (50) dollars plus one-half of the flat fee or six-hundred and ninety (690) dollars.

The $50 filing fee is due immediately and is nonrefundable. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval.

Please make all checks out to the **NMED - Water Quality Management** and send to the OCD Santa Fe Office.

Submission of the above requested information will allow the review of your application to continue. If you have any questions, please do not hesitate to call me at (505) 827-5824.

Sincerely,

Kathy Brown

Kathy M. Brown
Geologist

xc: OCD Hobbs Office

QUALITY BRINE
P.O. BOX 75
TATUM, NM 88267

Kathy Brown
Environmental Geologist
P.O. BOx 2088
Santa Fe, NM 87504

RE: Renewal Application

Dear Kathy;

I have enclosed our Renewal application for Quality Brine.

In addressing the renewal plan, we have had no problem at our facility.

All tanks and equipment are original. We attempted to do things right the first time, and it has paid off, therefore, I, respectfully request that our original plan remain as our renewal plan. I will address the February 7th, inspection as follows.

The mechinal integrity test for the last year was sent to the HObbs, NM office. I have included a chart test @340#/4hr This is our standard working pressure.

We have the original water meter at our fresh water supply well. No meter on the injection pump. The Quality Brine joint venture was terminated in July'89. Danny Watson and I took sole ownership at this time. I only have brine sales since then. Total slaes are 32,709 barrells. The water analyses are included and will be filed upon request and/ or quarterly.

The "waste oil storage pit" is n othing more than a caliche pit. It was dug to provide material for the truck loading area. Two years ago a water trailer was rinsed out in the pit, so that welding repairs could be made on the water trailer. That is where the discolored soil came from.

The leaking tank(northeast cornorof facilities) is to be removed. It was used for tank bottom storage. We no longer clean oilfield tanks, and this old tank at our facility is not necessary.

The 2-210 bbl tank on the west side of facility are used to store packer fluid(corrision inhibitor),KCL,surfactant or other fresh water additives. Occationally problems at well locations delay the use of the ecpensive addivites and we store them overnight until such problems are resolved plastic containers will be placed beneath loading valves to catch any fluid.

The saddle tank is used for truck diesel fuel. A maximum of 1000 gal. is all we ever have on hand. A plastic container will be placed beneath nozzles.

At the brine loading area plastic containers will be placed beneath each loading valve. The containers can be pumped dry by the last truck to load each day.The emergency pit has never been used. We run this facility by hand, there is no automation, Therfore, it is inspected daily. As we build dikes around our brine storage tanks, I would request to close the pit, as it has served no purpose other than a weed and trash problem.

yours very truly,

10/3/91

5/91

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES

(Refer to OCD Guidelines for assistance in completing the application.)

☐ NEW ☒ RENEWAL

I. FACILITY NAME: Quality Brine, Inc.

II. OPERATOR: Quality Brine, Inc.

ADDRESS: Box 75 Tatum, NM. 88267

CONTACT PERSON: Stan Watson PHONE: 398-3490

III. LOCATION: S/W/4 S/W/4 Section 20 Township 12 S. Range 36 E.

Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner of the facility site.

V. Attach a description of the types and quantities of fluids at the facility.

VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.

VII. Attach a description of underground facilities (i.e. brine extraction well).

VIII. Attach a contingency plan for reporting and clean-up of spills or releases.

IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.

X. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

XI. CERTIFICATION

I hereby certify under penalty of law that I have personnaly examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name: Stan Watson Title: Co-owner

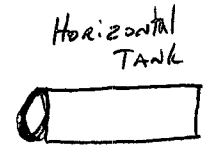
Signature: Stan Watson Date: 9-25-91

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

V. Type of Fluids at Quality Brine Site

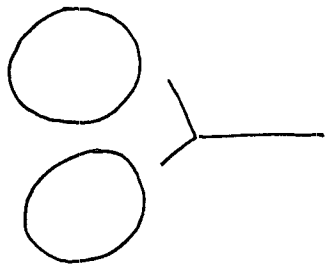
10-2-91

WEST ↑



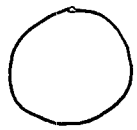
— 1,000 gal. Diesel MAX. on Hand.

— 2- 210 BBl. Corrosion Inhibitor
For Hot oil units, NEVER Full.
Avg. About 100 BBls. Fresh water or KCL
And Inhibitor.



South ←

— 2- 1000 BBl. Brine Storage Tanks. North →
- Coated - Amount stored Avg. About
1000 BBl. Total.



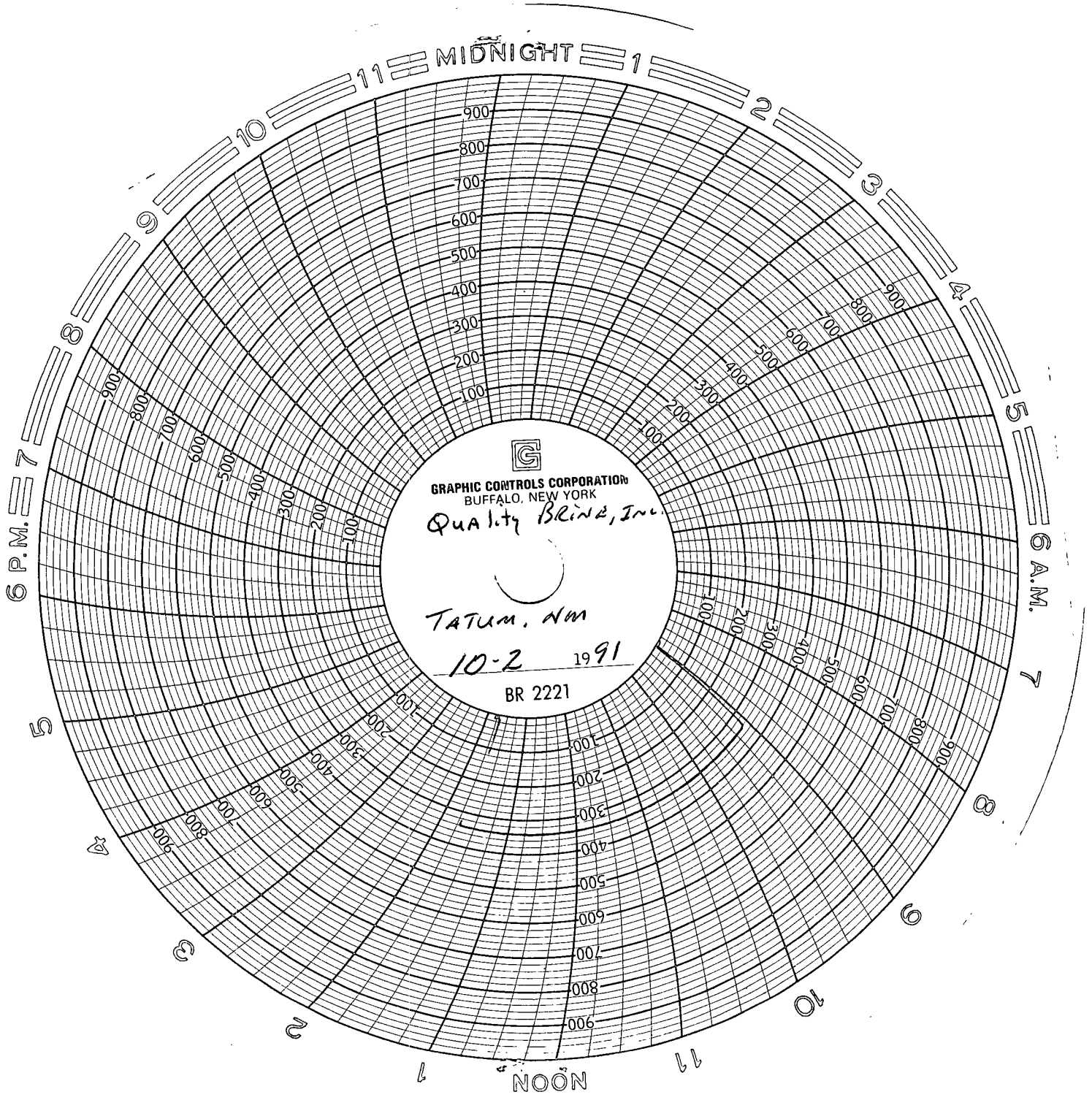
— 1-1000 BBl. Fresh water Tank.
- Coated - Amout stored Avg. About
600 BBL. Total.

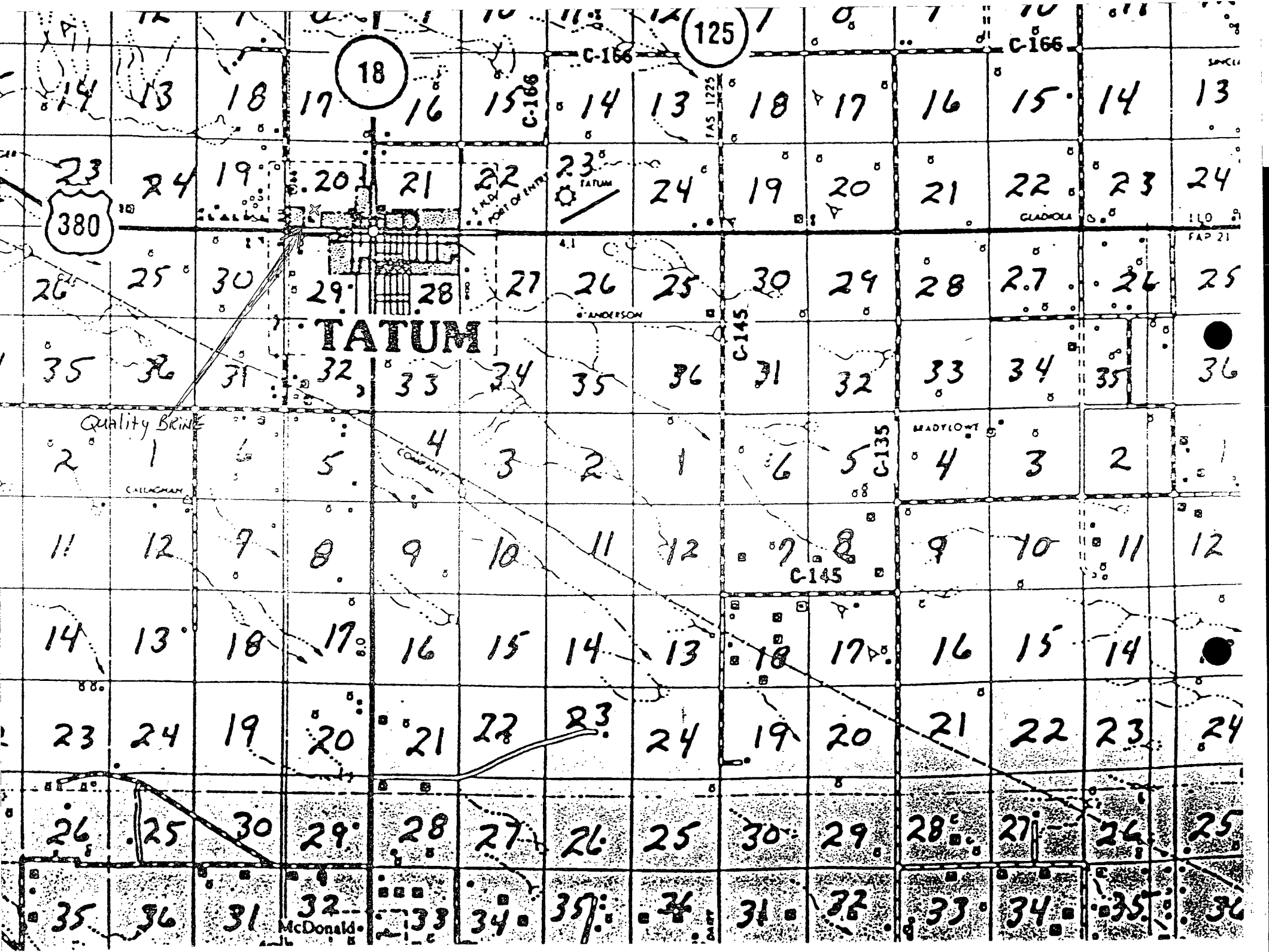
— Pump House

- 210 BBl.
Storage Tank

Abandon Storage
Tank
To be Removed.

EAST ↓


MIDNIGHT
NOON
6 P.M.
6 A.M.
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Quality Brine, Inc.
TATUM, NM
10-2 1991
BR 2221


TATUM
18
125
380
C-166
C-168
C-145
C-135
FAS 1225
Quality BRINE
McDonald

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Al Griffin - Owner | Date Samples 10/2/91

Field | County Lea

Lease | State New Mexico

Well Submersible Pump | Formation Fresh Water

Type of Water Fresh - Domestic | Water, B/D

Sampling Point Faucet | Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS	mg/l		meq/l
Sodium, Na+(Calc)		÷ 23	
Calcium, Ca++		÷ 20	
Magnesium, Mg++		÷ 12.2	
Barium, Ba++		÷ 68.7	
Iron, Fe (Total			
ANIONS			
Chloride, Cl-	115 ppm	÷ 35.5	
Sulfate, So_4=		÷ 48	
Carbonate, Co_3=		÷ 30	
Bicarbonate, HCo_3-		÷ 61	

OTHER PROPERTIES

PH

Specific Gravity

H_2S

Total Dissolved Solids

Total Hardness

Remarks and Recommendations Domestic water well located approximately 80 yards SW of brine well.

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Mr. Tillman — Date Samples 10/2/91

Field — County Lea

Lease — State New Mexico

Well Submersible Pump — Formation Fresh Water

Type of Water Fresh - Domestic — Water, B/D

Sampling Point Faucet — Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS	mg/l		meq/l
Sodium, Na+(Calc)		÷ 23	
Calcium, Ca++		÷ 20	
Magnesium, Mg++		÷ 12.2	
Barium, Ba++		÷ 68.7	
Iron, Fe (Total			
ANIONS			
Chloride, Cl-	70 ppm	÷ 35.5	
Sulfate, So_4=		÷ 48	
Carbonate, Co_3=		÷ 30	
Bicarbonate, HCo_3-		÷ 61	

OTHER PROPERTIES

PH

Specific Gravity

H_2S

Total Dissolved Solids

Total Hardness

Remarks and Recommendations Well located approximately 100 yards NW of Watson brine well.

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Allen Benson — Date Samples 10/2/91

Field — County Lea

Lease — State New Mexico

Well Submersible Pump — Formation Fresh Water

Type of Water Fresh - Domestic — Water, B/D

Sampling Point Faucet — Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS	mg/l		meq/l
Sodium, Na+(Calc)		÷ 23	
Calcium, Ca++		÷ 20	
Magnesium, Mg++		÷ 12.2	
Barium, Ba++		÷ 68.7	
Iron, Fe (Total			
ANIONS			
Chloride, Cl-	100 ppm	÷ 35.5	
Sulfate, So_4=		÷ 48	
Carbonate, Co_3=		÷ 30	
Bicarbonate, HCo_3-		÷ 61	

OTHER PROPERTIES

PH

Specific Gravity

H_2S

Total Dissolved Solids

Total Hardness

Remarks and Recommendations Water well located approximately 100 yards SW of Watson brine well.

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Watson — Date Samples 10/2/91

Field — County Lea

Lease — State New Mexico

Well Submersible Pump — Formation Fresh Water

Type of Water Fresh - Domestic — Water, B/D

Sampling Point Faucet — Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS	mg/l		meq/l
Sodium, Na+(Calc)		÷ 23	
Calcium, Ca++		÷ 20	
Magnesium, Mg++		÷ 12.2	
Barium, Ba++		÷ 68.7	
Iron, Fe (Total			
ANIONS			
Chloride, Cl-	30.0 ppm	÷ 35.5	
Sulfate, So_4=		÷ 48	
Carbonate, Co_3=		÷ 30	
Bicarbonate, HCo_3-		÷ 61	

OTHER PROPERTIES

PH

Specific Gravity

H_2S

Total Dissolved Solids

Total Hardness

Remarks and Recommendations Water well located approximately 100 yards NE of brine well.

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Buckeye Gas Products — Date Samples 10/2/91

Field — County Lea

Lease — State New Mexico

Well Submersible Pump — Formation Fresh Water

Type of Water Fresh - Domestic — Water, B/D

Sampling Point Faucet — Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS	mg/1		meq/1
Sodium, Na+(Calc)		÷ 23	
Calcium, Ca++		÷ 20	
Magnesium, Mg++		÷ 12.2	
Barium, Ba++		÷ 68.7	
Iron, Fe (Total			
ANIONS			
Chloride, Cl-	170 ppm	÷ 35.5	
Sulfate, So_4=		÷ 48	
Carbonate, Co_3=		÷ 30	
Bicarbonate, HCo_3-		÷ 61	

OTHER PROPERTIES

PH

Specific Gravity

H_2S

Total Dissolved Solids

Total Hardness

Remarks and Recommendations Business water well located approximately 250 yards SE of Watson brine well.

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application and renewal application have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-68) - Williams Field Services Company, Sandy Fishler, Environmental Specialist, P.O. Box 58900, Salt Lake City, Utah 84158-0900, has submitted a discharge plan application for their Simms Mesa Compressor Station located in the NW/4 NE/4, Section 22, Township 30 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. Approximately 75 gallons per day of wastewater will be stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 160 feet with a total dissolved solids concentration estimated to range from 600 to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-1) - Bloomfield Refining Company, David Roderick, Refinery Manager, P.O. Box 159, Bloomfield, New Mexico 87413, has submitted a renewal application for the previously approved discharge plan for its Bloomfield Refinery located in the NW/4 SE/4 and the S/2 NE/4 and the N/2 NE/4 SE/4 of section 27, and the S/2 NW/4 and the N/2 NW/4 SW/4 and the SE/4 NW/4 SW/4 and the NE/4 SW/4 of section 26, Township 29 North, Range 11 West, NMPM, San Juan County New Mexico. The renewal application consists of an evaluation proposal of the refinery waste water system with the objective of eliminating all unlined storage facilities. Groundwater most likely to be affected by any accidental spills is at a depth ranging from 10 to 30 feet and is a water zone directly caused by seepage from Hammond Ditch The ditch water has a total dissolved solids concentration of approximately 200 mg/l. The previously approved discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-74) - Halliburton Company, Matt D. Ratliff, Environmental Engineer, P.O. Drawer 1431, Duncan, Oklahoma 73536-0100, has submitted a discharge plan application for its Hobbs Service Facility located in Section 7, Township 18 South, Range 39 East, NMPM, Lea

County, New Mexico. Approximately 135 gallons per day of waste water is stored in below grade fiberglass tanks prior to disposal in an OCD approved offsite disposal facility. Groundwater most likely to be affected by any accidental spills is at a depth of approximately 30 feet with a total dissolved solids concentration ranging from 300 to 600 mg/l. The application addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-15) - Marathon Road Water Station, C. W. Trainer, 8090 E. Kalil Dr., Scottsdale, Arizona, 85260, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Marathon Road Water Station is located in the SW/4 SE/4, Section 25, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 1930 to 2400 feet and brine is extracted with an average total dissolved solids concentrations of about 321,080 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 20 to 50 feet with a total dissolved solids concentration ranging from 500 to of 3500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-22) - Quality Brine, Inc., Stan Watson, P. O. Box 75, Tatum, New Mexico, 88267, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Quality Brine Water Station is located in the SW/4 SW/4, Section 20, Township 12 South, Range 36 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 to 2900 feet and brine is extracted with an average total dissolved solids concentration of about 350,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 30 to 40 feet with a total dissolved solids concentration ranging from 700 to 800 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 aa.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public

hearing shall set forth the reasons why a hearing should be held., A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 21st day of October, 1991.

S E A L

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

July 22, 1991

Mr. Stan Watson
Quality Brine, Inc.
P. O. Box 75
Tatum, New Mexico 88267

RE: Discharge Plan BW-22 (formerly DP- 401)
Quality Brine Inc., Tatum Brine Station

Dear Mr. Watson:

Enclosed are the materials which were left out of the certified letter sent on July 22, 1991 to Quality Brine by the Oil Consevation Division. The letter requests Quality Brine to submit an application for renewal of the discharge plan for their Tatum Brine Station. This discharge plan expired on October 9, 1990. The enclosed materials should help you assemble and submit your discharge plan application.

After you recieve and review the abovementioned certified letter, please feel free to contact me at (505) 827-5824 if you have any questions concerning renewal of your discharge plan.

Sincerely,

Kathy M. Brown

Kathy M. Brown
Environmental Geologist

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

July 22, 1991

CERTIFIED MAIL
RETURN RECEIPT NO. P-757-737-759

Mr. Stan Watson
Quality Brine, Inc.
P. O. Box 75
Tatum, New Mexico 88267

RE: Discharge Plan BW-22 (formerly DP- 401)
Quality Brine Inc., Tatum Brine Station

Dear Mr. Watson:

On October 9, 1985, the ground water discharge plan, BW-22 for the Quality Brine Inc., Tatum Brine Station located in Section 20, Township 12 South, Range 36 East, NMPM, Lea County, New Mexico, was approved by the Director of the Environmental Improvement Division (EID). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval expired on October 9, 1990. Authority to administer the brine program was transferred from the EID back to the Oil Conservation Division (OCD) in 1989 with staffing approved in 1990. Please note the new discharge plan number (BW-22), formerly DP-401, which will be the permanent designation used in all future correspondence.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operations, you must renew your discharge plan. Since your discharge plan has expired, please submit your application for renewal of plan approval within sixty (60) days of receipt of this letter. Please indicate whether you have made, or intend to make, any changes in your discharge system, and if so, please include these modifications in your application for renewal. To assist you in preparation of your renewal application, I have enclosed an application form and a copy of the OCD's Guidelines for the Preparation of Ground Water Discharge Plans at Brine Extraction Facilities, revised May 1991, and a copy of the Water Quality Control Commission Regulations.

The OCD visited your operation on February 7, 1991, as part of an extensive multifacility inspection trip that week. Because of scheduling problems, and the numerous facilities visited, we were unable to notify you of the date and time of arrival in advance. Although not required, our agency generally notifies operators in advance giving time of arrival; in this instance it was not possible to do so.

The following comments are based on observations during the OCD site visit on February 7, 1991, and on additional requirements detailed in the guidelines. Please address these comments in your discharge plan renewal application.

1. Transfer of Commitment

Notwithstanding the transfer of jurisdiction of brine wells to OCD, all prior commitments to EID concerning reporting and notification remain in effect. Note that all unauthorized discharges (ie. major leaks and spills), need to be reported to the OCD within 48 hours of the event (WQCC Rule 5-208).

2. Mechanical Integrity Testing

Pursuant to revised OCD guidelines for discharge plans at brine facilities, all wells must be pressure tested (open-hole) to 500 psi for 4 hours on an annual basis. A pressure test isolating the casing from the formation using either a bridge plug or a packer must be conducted at least once every 5 years or during well workovers. The last pressure test (open-hole) that the OCD has on file for the Watson Brine Well was performed on March 8, 1989. The results from a current pressure test will be required prior to the approval of any brine facility discharge plan application or renewal. If the immediate test is performed using the open-hole method than a pressure test isolating the casing from the formation is required within the next 1 1/2 years. An OCD representative must be on site to witness all pressure tests and we request 10 days before the test to allow us to make arrangements. Submit a proposal for testing and ensuring the mechancial integrity of the well. Also, submit information on any buried brine pipelines including age and material of the lines.

3. Volumes of Injection Fluids and Brine

The OCD requires a quarterly report listing, by month, of the volume of fluids injected and produced for comparison to detect underground losses. The last quarterly report of volumes that the OCD has on file is for the third quarter of 1988. Submit a proposal and schedule for reporting injection

fluid and brine production volumes. Also, submit the date of first brine production and the total volume of brine produced to date. This information is necesary to evaluate subsidence potential at Quality Brine.

4. Quarterly Fresh Water Analyses

Quality Brine committed to analyze quarterly for Total Dissolved Solids and Chlorides in three freshwater wells (Al Griffin, Watson, Union Gas) to identify possible groundwater contamination. The last record of these analyses that the OCD has on file is dated February 8, 1989. The OCD requires Quality Brine to sample and analyze these three wells for Total Dissolved Solids and Chlorides, submit the results to the OCD, and continue quarterly analyses. Because of the old waste oil storage pit and the presence of spilled hydrocarbons on the ground surface, the OCD also will require Quality Brine to analyze for dissolved aromatic hydrocarbons (ie. benzene, toluene, ethylbenzene, and xylene) in each of these wells. If there is no evidence of groundwater contamination by aromatic hydrocarbons then the OCD will not require additional analyses for these constituents. Submit a schedule for quarterly analyses and reporting of your freshwater monitor wells. Describe your sampling procedures and method of analyses.

5. Waste Oil Storage Pit

The waste oil storage pit located on the north side of your facility is not closed to the OCD standards. Although the pit is no longer in use and the liquid hydrocarbons have been removed, you must dispose of the oil stained soils and properly close the pit. The stained soils must be either excavated and taken to an approved OCD disposal facility, or landfarmed on site and then placed back into the pit. Before conducting either alternative the soils must be tested to ensure that they fall below the listed EPA regulatory levels for benzene and all metals. The soils must be tested for the above constituents using the Toxicity Characteristic Leaching Procedure (TCLP). The pit itself needs to be backfilled and mounded. Submit a schedule and plan to properly close this pit within one year from the date of renewal of your discharge plan.

6. Leaking Tank (Northeast Corner of Facility)

The tank located in the northeast corner of your facility near your brine well is leaking oil onto the ground surface. What is stored in this tank and what is it used for? This area must be cleaned up and the tank must be either repaired,

replaced, or removed. The OCD requires all tanks to be bermed to contain 1 1/3 the volume of the largest tank or all interconnected tanks. Submit a plan and schedule for cleaning up this area, stopping all leaks, and containing any future spills.

7. Leaking Tanks (West Side of Facility)

The two tanks located immediately west of your brine storage tanks have oil either spilled or leaking around the loading valves. What is stored in these tanks and what is their purpose? This area must be cleaned up and the valves must have some type of containment to keep spilled oil off of the ground surface. If the tanks themselves are leaking then they must be either repaired, replaced, or removed. The tanks must be bermed to contain 1 1/3 the volume of the largest tank or of both tanks if they are interconnected. Submit a plan and schedule for cleaning up the area, stopping all leaks, and containing any future spills.

8. Saddle Tank

The saddle tank located next to the tanks in item number 7 has spilled oil on the ground surface below it. What is stored in this tank and what is it used for? This area needs to be cleaned up and a pad and curb installed beneath the tank and valves to contain spills. Submit a plan and schedule for cleaning up the area and containing any future spills.

9. Brine Loading Area

The loading area showed evidence of brine discharges to the ground surface, specifically, around the truck loading valves. This area must be cleaned-up and kept clean. Because of the existence of shallow ground water (18 feet) at your facility, this area must have containment to keep spilled brine off of the ground surface. Submit a proposal to contain spills at your brine loading area. Provide an explanation and diagrams detailing how spilled brine is to be contained; include paving and curbing where appropriate and indicate where the spilled brine drains to. Note that all new underground tanks (ie. sumps) are required to have positive leak detection.

10. Emergency Pit

Your unlined emergency catchpit located at the southeast corner of your facility needs to have all solid and liquid wastes removed. Because of the presence of shallow ground water at your facility you are required to either line your

emergency catchpit or install a tank. All lined pits and below grade tanks must have positive leak detection. Submit a plan and schedule to clean out and upgrade your emergency catchpit.

Addressing the above items in your application for renewal of your discharge plan will accelerate the review and response time of your application. Note that the completed and signed application form must be submitted with your discharge plan renewal request.

If you no longer have any actual or potential discharges a discharge plan renewal is not needed, please notify this office. If you have any questions, please do not hesitate to contact Kathy Brown at (505) 827-5824.

Sincerely,

David G. Boyer, Hydrogeologist
Environmental Bureau Chief

DGB/KMB

Enclosures

xc: OCD Hobbs Office

INVENTORY OF SOLUTION MINING WELLS -- OIL CONSERVATION DIVISION, 1991

BW-22 (DP-401)

I. OPERATOR/LOCATION INFORMATION

Operator: Quality Brine Inc. Stan Watson-owner

Address: P.O. Box 75

Tatum, New Mexico 88267 Phone: 398-3490

Facility Quality Brine Watson #1

T. 12S R. 36E Sec. 20 SW 1/4 of SW 1/4 M (well)

County: Lea

Purpose of well (brine supply, LPG storage, potash dissolution)

Brine supply

II. DRILLING/SITING INFORMATION

Contractor: Watson Brothers - Desert Drilling

Date drilling started 4-4-83 Date drilling completed 4- -83

Drilling method ?

Ground Surface Elevation 3991' KB Elevation 3991 (PI-oprseler)

Total depth of hole 2905'

Attach schematic of well, include open hole interval, perforations, etc.

Type of drilling fluid ?

Describe all casing tests performed to date ① 3-23-85: 300 psi for 12 hours, 2 times. Both attempts lose 100 psi. Blamed on faulty valves. 29% fall-off.

② 9-19-85: 220 psi for 24 hours. Lost 20 psi (9% fall off) EID blamed on plumbing leaks. ③ 10-16-86: 300 psi for 24 hours. Lost 10 psi (3% fo).

④ 1-7-88 -

⑤ 10-28-88: 350 psi for 24 hours. Lost 10 psi (3% fo).

⑥ 3-8-89: 260 psi for 4 hours. Lost 10 psi (4% fo).

CASING, TUBING AND CEMENTING RECORD

From	To	Size of Hole	Size of Casing	Weight per Foot	Sacks of Cement	Estimated Top of cmt.
0'	53'	12"	9 5/8"	24 #-J55	50 "C" 4% $CaCl_2$	Surface
0	2250'	7 7/8"	5 1/2"	N80 Grade	250 Lite "C"	
0	2870'	4 3/4"	2 7/8"	N80 grade		

Is site within 1/2 mile of another well? Is so, explain. No other oil

Type of well-head equipment ?

Comments (include problems encountered while drilling, loss of circulation, deviation of hole from vertical, centralizers, used, tools lost or stuck, fracturing techniques used, etc.)

III. FORMATION INFORMATION

Formation Record

From	To	Thickness	Formation (name, description)
0'- 162'		162'	Surface sand, clay, caliche?
163'- 231'		68	Clay & Sandstone
231'- 945'		714'	Red Beds
945- 2250'		1305'	Red Beds & Shale
2250'- 2290'		40	Red Beds & Anhydrite
2290- 2912'		622'	Salt & Anhydrite

2767-70' } Anhydrite Stringers
2790-92' }

Logs (specify type) None - Formation information source unclear. Either from Brine Well drilling or Sinclair Well No. 1, T12S, R36E, Sec. 17; 1 mile N of brine well.

Identify where logs are on file N/A

IV. AQUIFER INFORMATION

Aquifers in Immediate Area

From	To	Aquifer Description	Amount of Water entering hole	Quality of Water
18'	36'	sandy caliche	completed	
41'	53'	white sand w/ clay	not completed	
128'	162'	layered sandstone	completed	

- Depth of water zone in wells in Section 20 (1950's drilled) is between 32' and 75'.
- EID Public Notice stated GW @ a depth from 30' to 40' and with TDS between 700 & 800 ppm.
- State Engineers Report for Tatem Area - avg. TDS 124 ppm

over →

Note: If water quality analysis are available please attach.*

Source of aquifer description Danny Watson Well No.

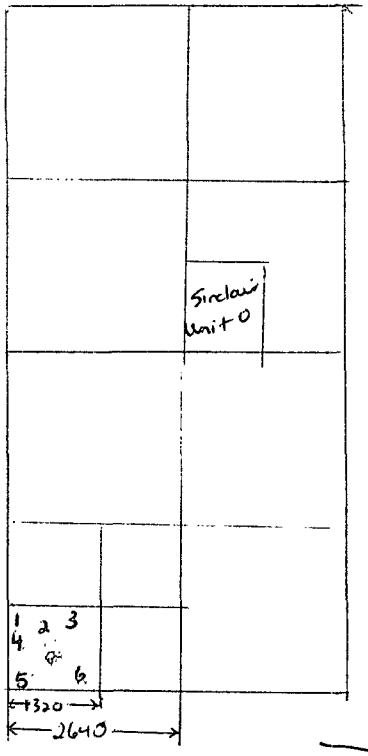
Source of water level and quality data drill log, OCD source books

Depth water first encountered during drilling N/A for brine well

Direction of water gradient _____

Explain any evidence of water contamination Use 2 closest freshwater wells (6 in Section 20) for monitoring to detect contamination & monitor fresh water source well. Monitor quarterly TDS & Cl in Al Griffin, (DTW 27.5') Blevins LP Gas (formerly Buckeye), (DTW 27') and Danny Watson Wells.

Benson
T Ullman



T12S, R36E, Sec. 17

T12S, R36E, Sec. 20

Unit M

S-SE

1. Allen Benson Cl-99 ppm
2. Permian Corp (Weston Oil) Cl-114 ppm
3. Roy Tillman Cl-71 ppm
4. Al Griffin Cl-114 ppm DTW 27.5'
5. Union LP Gas (Buckeye) Cl-185 ppm DTW 27'
* 6. Danny Watson Cl-28 ppm

Source Well

V. PRODUCTION/BRINE STORAGE INFORMATION

Method of production (describe fully) Water is injected down the annulus at 300psi to salt and produced out tubing. Reverse flow for 20 minutes when pressure reaches 350psi to clean tubing out.

Was well used previously for some purpose other than brine supply no

If so, explain _____

Use of brine drilling fluids

Source of injection water (be specific) Danny Watson Well, 730' NE. Completed ~~Perfed~~ from 18'-36' & 128'-162'; TD 162'. DTW upon completion was 18'. TD date 2-14-83

Date of first production after drilling 4-1983

Volume of brine produced to date _____

Weight of salt removed to date _____

Calculated size and shape of cavity to date _____

Explain any evidence of subsidence and any subsidence monitoring _____

Brine storage facilities (describe) (West) 2- 1000 bbl brine tanks coated with flake line material (polyester). 1-1000 bbl fresh water tank coated with Epoxyphenolic (matcote # 850-851) Emergency catch pit - lined with bentonite tilled into the soil; 45'x45'x6' deep. No automatic controls - hand check the equipment

Explain how brine storage pit is being monitored for leakage _____

Have consent to monitor fresh water in 5 surrounding wells

Explain brine loading procedures Brine is transferred from the well to the tanks via a 3" SDR-17 grade polyethlene pipe (120' long, 48" deep).

Explain fresh water loading procedures N/A

VI. ABANDONMENT/PLUGGING RECORDS

Date well abandoned/plugged N/A

Reason for well abandonment or plugging _____

_____

Method of plugging or proposed plugging (describe fully, include amounts of cement, etc. top, plug type, depth, etc.) _____

_____

_____

_____

_____

List all conduits in the area of review. Include completion and plugging records.

_____

_____

_____

_____

QB- Quality Brine

VII. CHRONOLOGY OF EVENTS

7-83: QB submits DP w/ Report I supplements dated June 9 & August 20

12-8-83: EID informs QB need more info for DP (i.e. WQCC Part IV).

1-5-84: QB submits letter detailing correspondence & supplying addl info.

2-23-84: QB submits Assurance of Discontinuance (4-10-84 signed by WQCC)

7-18-84: EID requests additional info for DP

11-20-84: QB submits DP Report II

1-18-85: EID response to QB Report II (again, 4-4-85 EID responds to pressure test & pit closure)

9-19-85: QB submits pressure chart & plans for emergency pit

9-26-85: EID OK's 2nd pressure test even though leak-off

10-9-85 EID approves DP (exp 10-9-90)

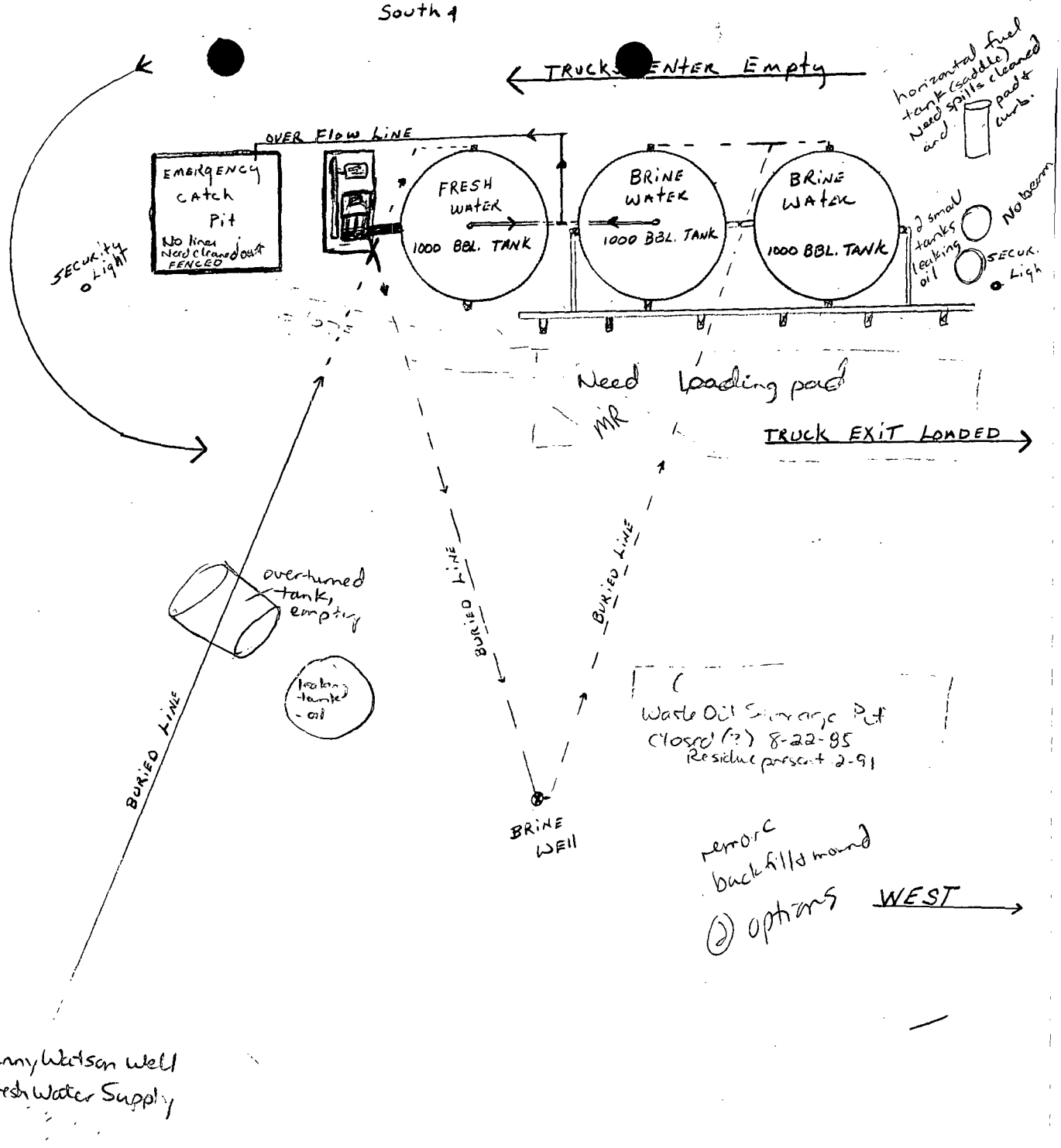
9-8-86 EID warns of not complying with monitor requirements

11-19-87: " "again "

2Q-88 7-88: Last report on file for 3 freshwater monitoring wells

3Q-88 10-28-88: Last report on file for quarterly volumes

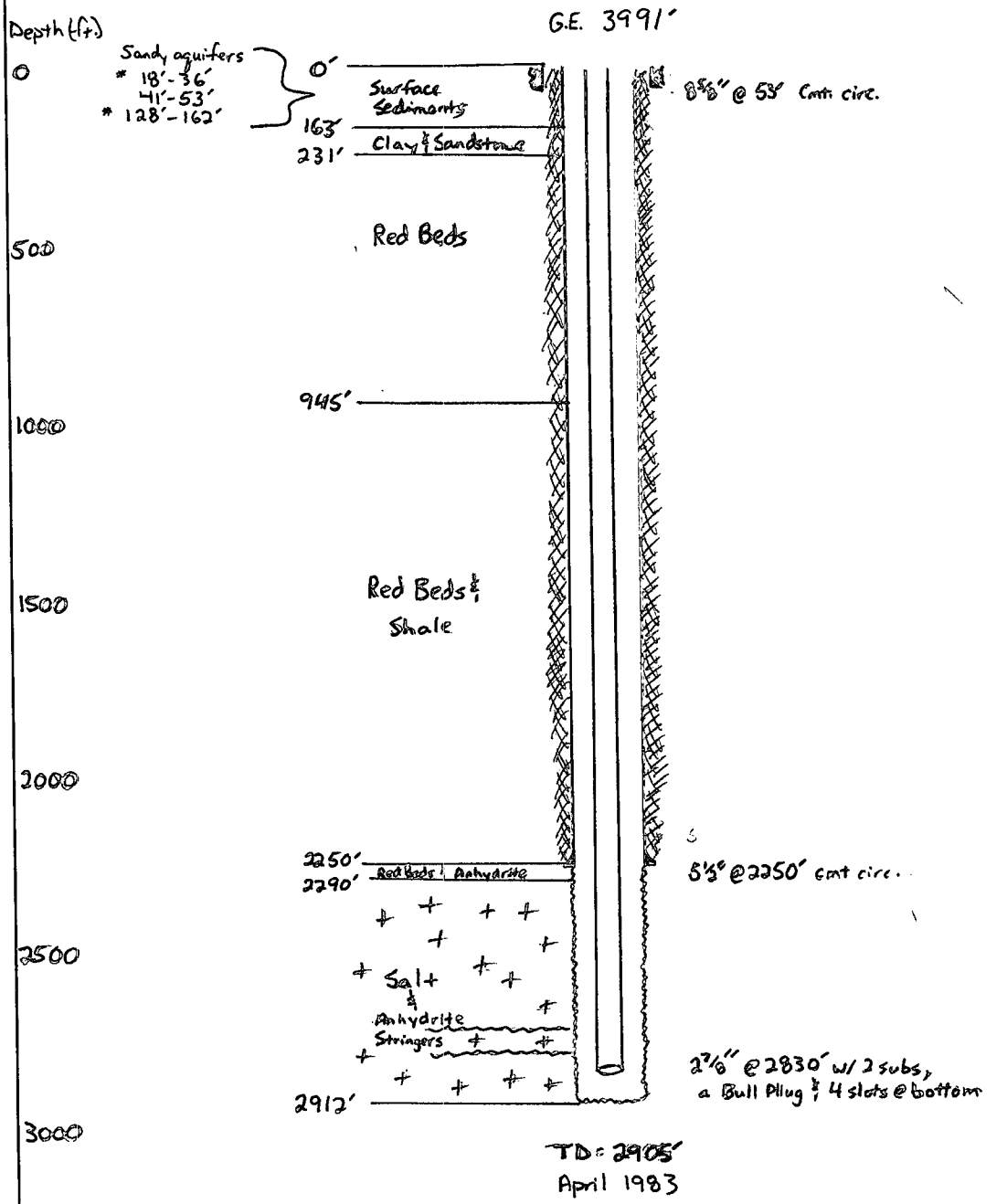
South 1



Quality Brine
Tatum, N.M.

QUALITY BRINE | WATSON BRINE WELL

T12S - R36E - SEC. 20
QUALITY BRINE - WATSON No. 1
6-83



TD = 2905'
April 1983

*Completed zones in Watson water supply ~~water~~ well.

Summary

DATE	Al Griffin (75yd SW of BW) TDS	Al Griffin (75yd SW of BW) Cl	Watson (75yd NE) TDS	Watson (75yd NE) Cl	Union Gas (100yd SE) TDS	Union Gas (100yd SE) Cl
4/25/83 (OCD)	—	113.6	—	28.4	—	184.6
1/29/87 (Perm)	—	117	—	29	—	117
3/17/87 (OCD)	672	56.8	686	112.6	—	—
10/4/87	752.5	113.6	770	99.4	1050	85.2
1/15/88 (OCD)	700	99.4	735	85.2	1099	85.2
4/14/88 (OCD)	700	85.2	693	85.2	1015	99.4
7/13/88 (OCD)	945	184.6	735	99.4	980	170.4
10/22/88 (Perm)	700	99.4	735	85.2	1099	85.2
2/8/89	742	85.2	822.5	85.2	997.5	56.8
1/8/92 Dissolved Solvents	490	98	(3-26-85 EID ⇒ 783 504)	(102) 92	590	148

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

January 18, 1990

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

B&E, Inc. and Watson
Treating Plant
P. O. Box 75
Tatum, new Mexico 88267

Re: $5,000 One-Well Plugging Bond
B & E, Inc. and Watson Treating
Plant, Inc., Principal
Safeco Insurance, Surety
593' FSL and 639' FWL of
Sec. 20, T-12-S, R-36-E, Lea County
Bond No. 2980227

Gentlemen:

The Oil Conservation Division hereby acknowledges receipt of and approves the duplicate bond on our new bond form.

Sincerely,

WILLIAM J. LEMAY,
Director

dr/

cc: Oil Conservation Division
Hobbs, New Mexico

Safeco Insurance
P. O. Box 39239
Phoenix, Az. 85069

OIL CONSERVATION DIVISION
RECEIVED
'90 JAN 16 AM 10 12

Form O & G B-1
Adopted 6-17-77
Revised 11-01-89

STATE OF NEW MEXICO

ONE-WELL PLUGGING BOND

FOR CHAVES, EDDY, LEA, McKINLEY, RIO ARRIBA, ROOSEVELT, SANDOVAL, AND SAN JUAN COUNTIES ONLY

DUPLICATE ON NEW BOND FORM

BOND NO. 2980227
AMOUNT OF BOND $5,000.00
COUNTY Lea

NOTE: For wells less than 5,000 feet deep, the minimum bond is $5,000.00*
For wells 5,000 to 10,000 feet deep, the minimum bond is $7,500.00*
For wells more than 10,000 feet deep, the minimum bond is $10,000.00

*Under certain conditions, a well being drilled under a $5,000.00 or $7,500 bond may be permitted to be drilled as much as 500 feet deeper than the normal maximum depth, i.e., a well being drilled under a $5,000.00 bond may be permitted to go to 5,500 feet, and a well being drilled under a $7,500.00 bond may be permitted to go to 10,500 feet. (See Rule 101)

File with Oil Conservation Division, P. O. Box 2088, Santa Fe 87501

KNOW ALL MEN BY THESE PRESENTS:

That B & E., Inc. and WAtson Treating Plant, Inc. A Joint Venture, (An individual) (a partnership) (a corporation organized in the State of New Mexico, with its principal office in the city of Hobbs, State of New Mexico, and authorized to do business in the State of New Mexico), as PRINCIPAL, and SAFECO Insurance Company of America, a corporation organized and existing under the laws of the State of Washington, and authorized to do business in the State of New Mexico, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of New Mexico pursuant to Section 70-2-12, New Mexico Statutes Annotated, 1978 Compilation, as amended, in the sum of Five Thousand & no/100** Dollars lawful money of the United States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas lease, or carbon dioxide (CO_2) gas leases, or helium gas leases, or brine mineral leases with the State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO_2) gas leases, or helium gas leases, or brine mineral leases on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of one well not to exceed a depth of less than 3,000 feet feet, to prospect for and produce oil or gas, or carbon dioxide (CO_2) gas or helium gas, or does own or may acquire, own or operate such well, or such well started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO_2) leases, or helium gas leases, or brine minerals, and on land patented by the United States of America to private individuals, and on land otherwise owned by private individuals, the identification and location of said well being being 3 ft. from S. line and 639 feet from W., Section 20, Township 12S (South)
(Here state exact legal footage description)
Range 36E (East), N.M.P.M., Lea County, New Mexico.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, shall plug said well when dry or when abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Division of New Mexico in such way as to confine the oil, gas, brine, and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

SAFECO

KNOW ALL BY THESE
That SAFECO In
a Washing

B&E., Inc. and Watson Treating Plant, Inc., A Joint Venture	SAFECO Insurance Company of America
PRINCIPAL	SURETY
P.O. Box 75 TATUM NM 88267	P.O. Box 39239 Phoenix, AZ 85069
Address	Address
By Stanley Watson	Dorothy Miller
Signature	Attorney-in-Fact Dorothy Miller
Co-Owner	
Title	
(Note: Principal, if corporation, affix corporate seal here.)	(Note: Corporate surety affix corporate seal here.)

ACKNOWLEDGEMENT FORM FOR NATURAL PERSONS

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19___, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

_____
Notary Public

_____
My Commission Expires

ACKNOWLEDGEMENT FORM FOR CORPORATION

STATE OF N.M.)
COUNTY OF Lea)ss.

On this 19th day of January, 1990, before me personally appeared Stanley Watson, to me personally known who, being by me duly sworn, did say that he is Co-owner of Quality Brine Inc. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Tonya Coburn
Notary Public

June 3, 1991
My Commission Expires

ACKNOWLEDGEMENT FORM FOR CORPORATE SURETY

STATE OF Arizona)
COUNTY OF Maricopa)ss.

On this 3rd day of January, 1990, before me appeared Dorothy Miller, to me personally known, who, being by me duly sworn, did say that he is Attorney in Fact of SAFECO Insurance Company of America and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Betty L. Francis
Notary Public

10-26-92
My Commission Expires

(Note: Corporate surety attach power of attorney.)

APPROVED BY:

OIL CONSERVATION DIVISION OF NEW MEXICO

By: _____

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

December 6, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Stan Watson
QUALITY BRINE, INC.
P. O. Box 75
Tatum, New Mexico 88267

RE: Delegation of Responsibilities Brine Manufacturing Operations

Dear Mr. Watson:

On June 13, 1989, the Water Quality Control Commission (WQCC) transferred the responsibility for the administration and enforcement of Commission regulations at brine manufacturing operations, including all brine production wells, holding ponds and tanks, from the Environmental Improvement Division (EID) to the Oil Conservation Division (OCD). The OCD has jurisdiction over all manufactured brine once it is transported, used or disposed of off brine plant premises for use in or directly related to oil and gas operations regulated by OCD. OCD regulates brine injection through its Class II Underground Injection Control (UIC) Program if the brine is used in the drilling for or production of oil and gas. EID shall regulate brine injection through its UIC Program if the brine is used for other purposes.

Brine production facilities that were transferred to OCD's jurisdiction must operate pursuant to an approved and current discharge plan. The discharge plan renewal process will be continued by OCD Environmental Bureau Staff. Approximately eight (8) months before the expiration date of an approved discharge plan, the discharger will be notified of the pending expiration of the plan. The discharge plan review process can, depending on circumstances, take several months. If the holder of an approved discharge plan submits a renewal application at least 180 days before discharge plan expiration, and the discharger is in compliance with his approved plan on the date of expiration, then the existing plan will not expire until the renewal application has been approved or disapproved.

Guidelines to aid you in determining what will be required for the renewal of your discharge plan are bring prepared. When the guidelines are finalized, they will be supplied to each operator of a brine production facility.

The OCD requires that any person, firm corporation or association that is in ownership of an oil, gas, or service well in the State of New Mexico shall furnish the Division with a surety bond in an amount prescribed in the OCD regulations. The current bond for well less than 5000 feet deep in Chaves, Eddy, Lea and Roosevelt Counties is $5000. I am enclosing the OCD bond forms for your use. All surety bonds previously submitted to the OCD did not include brine wells. Those surety bonds submitted to the EID must be changed to the OCD. Once the proper bond form are received and approved, all other sureties and bonds can be cancelled.

If you have any questions, please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Roger C. Anderson
Environmental Engineer

RCA/sl

Enclosures

CC: Artesia District Office
Hobbs District Office

New Mexico Health and Environment Department

CARLA L. MUTH
Secretary

MICHAEL J. BURKHART
Deputy Secretary

RICHARD MITZELFELT
Director

April 3, 1989

Stan Watson
Quality Brine, Inc.
P. O. Box 75
Tatum, NM 88267

Dear Mr. Watson:

Thank you for your cooperation and assistance during our pressure test of your brine well on March 8th.

This pressure test was performed in partial fullfillment of the mechanical integrity requirements found in Part 5-204 of the New Mexico Water Quality Control Commission Regulations. Results showed no leakage from your brine well.

If you have any questions, please feel free to call me at 827-0027.

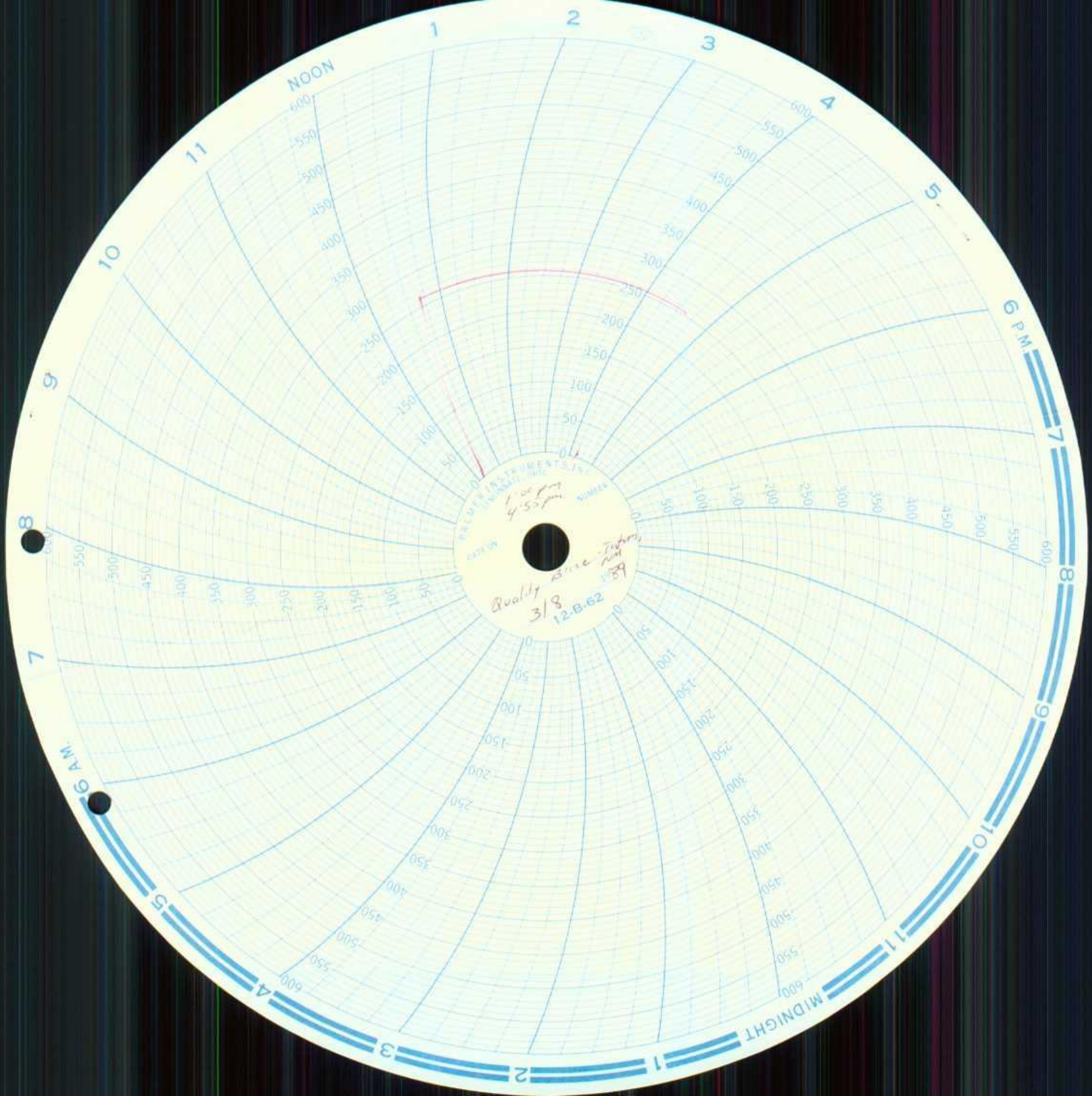
Sincerely,

John W Parker

John Parker
Water Resource Specialist
Ground Water Section

JP/pr

— ENVIRONMENTAL IMPROVEMENT DIVISION —
Harold Runnels Building
1190 St. Francis Dr.
Santa Fe, New Mexico 87503


NOON
1
2
3
4
5
6 P.M.
7
8
9
10
11
6 A.M.
MIDNIGHT
0
50
100
150
200
250
300
350
400
450
500
550
600
Quality
3/8
12-B-62

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

ENVIRONMENTAL IMPROVEMENT DIVISION
Harold Runnels Bldg.-1190 St. Francis Drive
Santa Fe, New Mexico 87503

Richard Mitzelfelt
Director

GARREY CARRUTHERS
Governor
CARLA L. MUTH
Secretary
MICHAEL J. BURKHART
Deputy Secretary

December 14, 1988

Stan Watson
Quality Brine, Inc.
P.O. Box 75
Tatum, New Mexico 88267

Dear Mr. Watson:

The Underground Injection Control staff of the New Mexico Environmental Improvement Division Ground Water Section would like to thank you for your cooperation during our recent inspection of Quality Brine, Inc. brine facility. A copy of the inspection form is attached for your reference.

No violations were noted during the inspection.

Thank you for your continued cooperation. Should you have any questions feel free to contact me (827-2902) or John Parker (827-0027).

Sincerely,

Kevin A Lambert

Kevin Lambert
Hydrologist
Ground Water Section - UIC Program

KL/mw

Enclosure

BRINE STATION INSPECTION FORM

DATE 12/8 1988 1032 EID INSPECTOR Lambert
FACILITY Quality Brine LOCATION Tatum
FACILITY REP ON SITE Danny Weston COUNTY Lea

WELL OPERATION 1 wellsystem valved for reversal to control salt buildup

WELL IS INJECTING: ✓ THROUGH ANNULUS ___ THROUGH TUBING
SOURCE OF FRESH WATER Water Well
TRACE INJECTION/PRODUCTION LINES Underground

WELL HEAD PRESSURE ___ PSIG PUMP PRESSURE ___ PSIG
LEAKS AROUND WELL OR PUMP None

STORAGE AREA

~~FOR PONDS:~~ 3 tank 2 brine west 1 fresh east
GENERAL LINER APPEARANCE ~~Good~~

AMOUNT OF FREEBOARD
ANY SIGN OF OVERFLOW OR LEAKS
LEAK DETECTION SYSTEM __ FLUIDS __ DRY

FOR TANKS:
GENERAL APPEARANCE Look Good
LABLED PLAINLY ✓ YES __ NO
BERMED TO PREVENT RUNOFF ✓ YES __ NO tell by piping
CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH

NUMBER OF TANKS FOR BRINE 3 FRESH WATER 1

LOADING AREA

PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE	✓ YES	__ NO
ANY EVIDENCE OF RECENT SPILLAGE	~~✓~~ YES	✓ NO
DOES FACILITY HAVE A SPILL COLLECTION SYSTEM	✓ YES	__ NO
ANY EVIDENCE OF OIL SPILLING/DUMPING	__ YES	✓ NO

Looks Good

MONITORING WELLS

DEPTH ___ FT STATIC WATER LEVEL ___ FT BELOW CASING
SAMPLED THIS VISIT __ YES __ NO TEMP ___ Ec ___

COMMENTS See No problems Business slow

No. of Samples	Ion
1	Na
1	K
1	Ca
1	Mg
1	Cl
1	HCO3
1	CO3
1	SO4
1	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 Eddy/Lea

Ground Water: 59300

NO_3, HC, & Toxics: 59600

UIC: (59500)

FACILITY VISITED

Name of Facility: 20 Brine Facilities & Climax Chemical

Location: Carlsbad/Hobbs in Southeast NM

Discharge Plan Number: DP- See Below

Type of Operation: Brine Production / Chemical Manufacturing

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT

EID Inspector(s): Lambert

Date of Inspection or Visit: 12/5-8/88

Discharger's Representative Present During EID Visit:

Name:

Title or Position:

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)

b. Sampling of Effluents (give sampling locations)

c. Sampling of Ground Water (give names or locations of wells)
Sampled M.W. at Marathon

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:
The 20 Brine Facilities & Climax are listed below by DP#. See Individual File for specifics

ACTION REQUIRED

#	#	#	#	#
	323	354	370	298
318	324	355	371	426
319	325	360	372	
320	326	361	394	
321	351	369	401	
322				

BRINE STATION INSPECTION FORM

DATE 12/8 1988 1032 EID INSPECTOR Lambert
FACILITY Quality Brine LOCATION Tatum
FACILITY REP ON SITE Danny Weston COUNTY LEA

WELL OPERATION 1 well system valved for reversal to control salt buildup

WELL IS INJECTING: ✓ THROUGH ANNULUS ___ THROUGH TUBING
SOURCE OF FRESH WATER Water Well
TRACE INJECTION/PRODUCTION LINES Underground

WELL HEAD PRESSURE ___ PSIG PUMP PRESSURE ___ PSIG
LEAKS AROUND WELL OR PUMP None

STORAGE AREA

~~FOR PONDS:~~ 3 tank 2 brine west 1 fresh east
GENERAL LINER APPEARANCE ~~Good~~

AMOUNT OF FREEBOARD
ANY SIGN OF OVERFLOW OR LEAKS
LEAK DETECTION SYSTEM ___ FLUIDS ___ DRY

FOR TANKS:
GENERAL APPEARANCE Look Good
LABLED PLAINLY ✓ YES ___ NO tell by piping
BERMED TO PREVENT RUNOFF ✓ YES ___ NO
CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH

NUMBER OF TANKS FOR BRINE 3 FRESH WATER 1

LOADING AREA

PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE	✓ YES	___ NO
ANY EVIDENCE OF RECENT SPILLAGE	~~✓~~ YES	✓ NO
DOES FACILITY HAVE A SPILL COLLECTION SYSTEM	✓ YES	___ NO
ANY EVIDENCE OF OIL SPILLING/DUMPING	___ YES	✓ NO

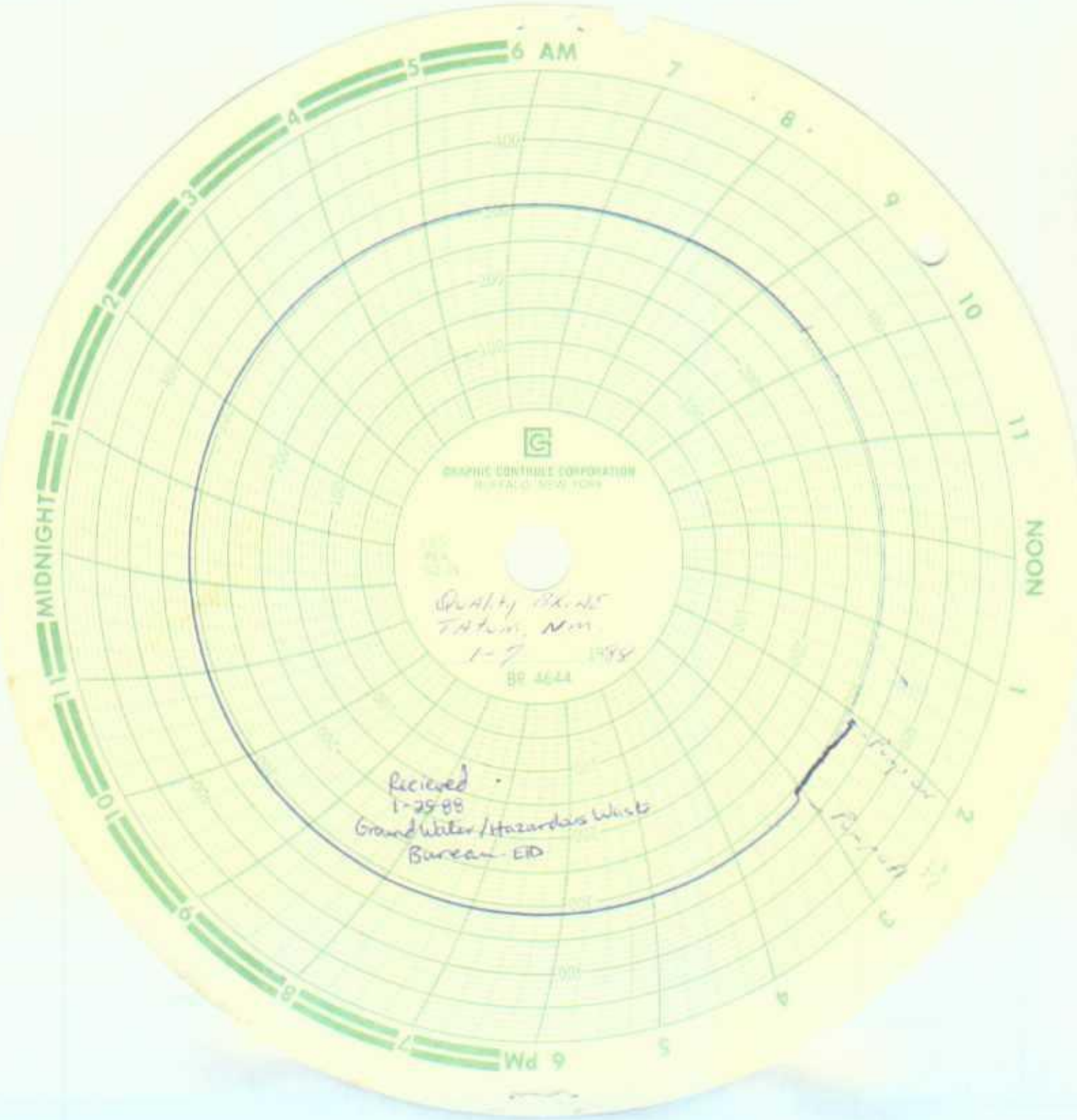
Looks Good

MONITORING WELLS

DEPTH ___ FT STATIC WATER LEVEL ___ FT BELOW CASING
SAMPLED THIS VISIT ___ YES ___ NO TEMP ___ Ec ___

COMMENTS See No problems Business slow


CALIBRATED CHARTS
NIGHT
DAY
BR-4635
Received
11-16-88
Ground Water Bureau
ESD


6 AM
NOON
MIDNIGHT
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Recieved
1-29-88
Ground Water / Hazardous Waste
Bureau - EID

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

December 31, 1987

Stan Watson
Quality Brine
P.O. Box 75
Tatum, NM 88267

Dear Mr. Watson:

The Underground Injection Control staff of the New Mexico Environmental Improvement Division Ground Water Section would like to thank you for your cooperation during our recent inspection of Quality Brine brine facility. A copy of the inspection form is attached for your reference. Deficiencies noted during the inspection are as follows:

1. Spill collection system should be free of trash and debris.

2. Liner in spill collection pond not functional. Should replace with hypalon or other synthetic liner. (Not pvc plastic.)

3. Drainage to collection system needs improvement.

Thank you for your continued cooperation. Should you have any questions feel free to contact me (827-2902) or John Parker (827-0027).

Sincerely,

John W Parker

for Kevin Lambert
Hydrologist
Ground Water Section

KL:JP:egr

Enclosure

BRINE STATION INSPECTION FORM

DATE 12/3 1997 EID INSPECTOR Lambert/Parker
FACILITY Quality Brine LOCATION Tatum
FACILITY REP ON SITE None COUNTY LEA

WELL OPERATION 1 well system reversable

WELL IS INJECTING: X THROUGH ANNULUS __ THROUGH TUBING
SOURCE OF FRESH WATER Well Water
TRACE INJECTION/PRODUCTION LINES Buried Lines

WELL HEAD PRESSURE _____ PSIG PUMP PRESSURE _____ PSIG
LEAKS AROUND WELL OR PUMP None
pumphouse in good shape

STORAGE AREA

FOR PONDS:
GENERAL LINER APPEARANCE _____
AMOUNT OF FREEBOARD _____
ANY SIGN OF OVERFLOW OR LEAKS _____
LEAK DETECTION SYSTEM __ FLUIDS __ DRY

FOR TANKS:
GENERAL APPEARANCE Look Good
LABLED PLAINLY ✓ YES __ NO can tell by piping
BERMED TO PREVENT RUNOFF ✓ YES __ NO
CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH _____
totalizing flow meters on TANKS
NUMBER OF TANKS FOR BRINE 2 W FRESH WATER 1 E

LOADING AREA

PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE	✓ YES	__ NO
ANY EVIDENCE OF RECENT SPILLAGE	__ YES	✓ NO
DOES FACILITY HAVE A SPILL COLLECTION SYSTEM	✓ YES	__ NO
ANY EVIDENCE OF OIL SPILLING/DUMPING	__ YES	✓ NO

MONITORING WELLS

DEPTH _____ FT STATIC WATER LEVEL _____ FT BELOW CASING
SAMPLED THIS VISIT __ YES __ NO TEMP _____ Ec _____

COMMENTS Need to clean up spill collection system remove trash & debris e.g. weeds, paper, wire etc.
Is collection system lined Need to improve drainage to collection system

P-484 024 970

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Stan Hatson	
Street and No. P.O. Box 75	
P.O., State and ZIP Code Jatum, NM	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, June 1985

U.S.G.P.O. 153-506

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 19, 1987

Stan Watson
Quality Brine
P.O. Box 75
Tatum, NM 88267

RE: Discharge Plan (DP-401) Monitoring and Reporting Requirements

Dear Mr. Watson:

On October 9, 1985, your discharge plan DP-401 was approved by the Environmental Improvement Division (EID). In this plan you made certain monitoring and reporting commitments (see attached Monitoring and Reporting Form). Your voluntary compliance has not been in accordance with these requirements for the past two years (see attachment). Therefore, you must submit complete and timely quarterly reports commencing on or before January 30, 1988 and continuing according to your approved discharge plan monitoring and reporting requirements. Please include on or before January 30, 1988 the pressure test results which were to have been submitted on or before October 31, 1987.

This represents EID's final attempt to gain voluntary compliance with the terms of your ground water discharge plan. Any future delays or omissions will not be tolerated and can result in fines of up to $1,000 per day for a violation of the Water Quality Control Commission regulations.

If you have any questions regarding this matter, I can be reached by telephone at 827-2902 or at the address listed on the letterhead.

Sincerely,

Kevin Lambert

Kevin Lambert
Hydrologist
Ground Water Section - UIC Program

KL:egr

Attachments

cc: Garrison McCaslin, EID District IV Manager, Roswell
EID Field Office, Hobbs

Quality Brine Inc.
Monitoring and Reporting (M & R) History

October 9, 1985	Discharge plan DP-401 approved. M & R form attached.
October 15, 1985	M & R due. Submitted as part of discharge plan approval process.
January 15, 1986	M & R due. No report received.
April 15, 1987	M & R due. No report received.
July 15, 1986	M & R due. No report received.
August 27, 1986	EID notified Stan Watson by telephone that no reports had been received. Mr. Watson stated business down and would sample and send in report.
September 3, 1986	Incomplete M & R report received.
September 8, 1986	EID notified Stan Watson by letter M & R report was incomplete. Missing volume of brine sold during quarter and no total dissolved solids analysis for three monitor wells.
October 15, 1986	M & R due. No report received.
October 23, 1986	Incomplete M & R report received. Missing results from two monitor wells (i.e., Griffin well and Buckeye Products well).
January 15, 1987	M & R due. No report received.
January 19, 1987	EID notified Stan Watson by telephone of delinquent and incomplete reports for 1986. Need to fulfill requirements for 1987.
February 2, 1987	Incomplete M & R report received. Missing total dissolved solids analysis for three monitor wells.
February 5, 1987	EID notified Stan Watson by telephone of incomplete report. Mr. Watson stated he would be sending results by end of February 1987.
April 1, 1987	EID receives results for water supply well and Griffin well. Still missing results for Buckeye Products well.
April 15, 1987	M & R due. No report received.
May 7, 1987	Incomplete M & R report received. Missing results for Buckeye Products well. Resubmitted same results for water supply well and Griffin well received April 1, 1987.
July 15, 1987	M & R due. No report received.
October 15, 1987	M & R due. No report received.
November 12, 1987	Incomplete M & R report received. Missing pressure test results.

2/5/87 Quality Brine Inc - Stan Watson
398-3490 RE: Incomplete Monitoring Report for Jan '87 Missing TDS mg/l for 2 monitor wells and water supply

8:53 am Not in Left message

9:43 am Discuss the ~~deficiency~~ deficiency in TDS
Will ~~he~~ be sending results pronto
He doesn't want to keep being out-of-compliance so will be submitting results before end of February

1/19/87 Quality Brine Inc - Stan Watson
398-3490 RE: Reminder on M+R Requirement
- '86 was not good for you reporting;
when you did report information was
incomplete

8:56 Am Not in left message to return call

9:54 Am Stan return my call and I informed him that
Quality Brine needs to be more ~~conscious~~
conscientious of M+R requirement in '87.
Quality was deliquent several times in '86
and to get off to a good year must ~~be~~ pay attention
to your commitments. Send us ~~a~~ a
report every quarter whether any brine
produced and/or sold so that EID records
indicate you are compiling w/
M+R Requirements. Read him their
commitments and ~~stated~~ stated next
report due end of Jan '87. Kevin Lambert

BRINE STATION INSPECTION FORM

DATE 12/9 1986 EID INSPECTOR Lambert, Koschal Baker
FACILITY Quality Brine LOCATION Tatum
FACILITY REP ON SITE Stan Watson COUNTY Lea
DP-401.

WELL OPERATION

WELL IS INJECTING: X THROUGH ANNULUS __ THROUGH TUBING
SOURCE OF FRESH WATER Water Well -
TRACE INJECTION/PRODUCTION LINES buried lines

WELL HEAD PRESSURE _____ PSIG PUMP PRESSURE 250 PSIG
LEAKS AROUND WELL OR PUMP None

STORAGE AREA

FOR PONDS: None
GENERAL LINER APPEARANCE _____
AMOUNT OF FREEBOARD _____
ANY SIGN OF OVERFLOW OR LEAKS _____
LEAK DETECTION SYSTEM __ FLUIDS __ DRY

FOR TANKS:
GENERAL APPEARANCE Look to be in good shape
LABLED PLAINLY X YES / NO
BERMED TO PREVENT RUNOFF X YES __ NO berms 50-60 ft either side of tanks
CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH _____
NUMBER OF TANKS FOR 3 BRINE ~~3~~ 2 FRESH WATER 1

LOADING AREA

PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE	X YES	__ NO
ANY EVIDENCE OF RECENT SPILLAGE	~~X~~ YES	X NO
DOES FACILITY HAVE A SPILL COLLECTION SYSTEM	__ YES	X NO
ANY EVIDENCE OF OIL SPILLING/DUMPING	__ YES	X NO

No evidence of spills
Need to work on spill collection system

MONITORING WELLS

DEPTH _____ FT STATIC WATER LEVEL _____ FT BELOW CASING
SAMPLED THIS VISIT __ YES __ NO TEMP _____ Ec _____

COMMENTS Not ~~one~~ operating continually, only operate on demand. Presently little or no demand


AM
NOON
MIDNIGHT
PM
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Quality Brine
Watson #1 Tatum, N.M.
Oct. 16 1986
BR 4644

Quality Brine
Tatum, NM.

October 17, 1986

Brine Sales For:

July - 300 BBl.

August - 200 BBl.

September - 250 BBl.

750 BBls

Thank you,

Stan Watson
Box 75
Tatum NM 88267
398-3490

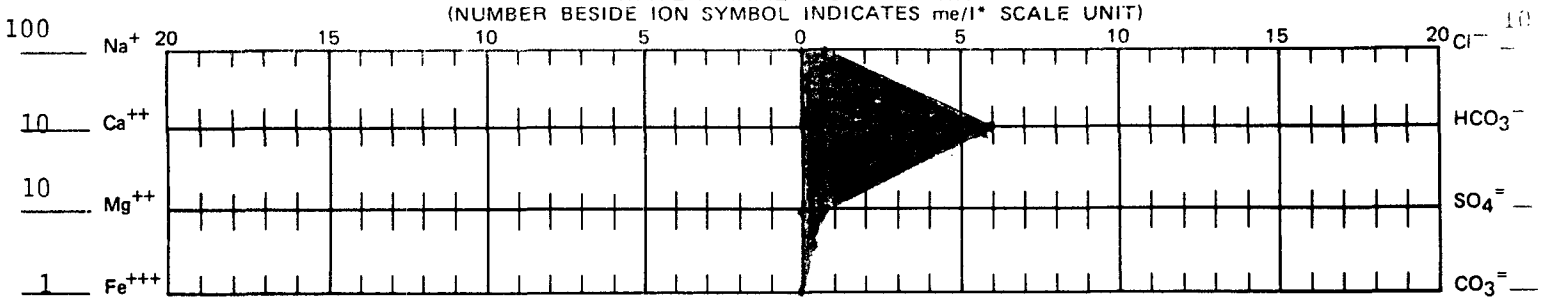
The slight increase and decrease in pressure is due to changing temperatures.

BAKER OIL TREATING
A Baker Oil Tools Company

WATER ANALYSIS REPORT

COMPANY: Quality Brine			ANALYSIS NUMBER: 1757
COMPANY ADDRESS			DATE: 10-6-86
FIELD		COUNTY OR PARISH: LEA	STATE: NM
LEASE OR UNIT	WELL(S) NAME OR NO.	WATER SOURCE (FORMATION): FRESH WATER	
DEPTH, FT. / BHT, °F	SAMPLE SOURCE / TEMP, °F	WATER, BBL/DAY / OIL, BBL/DAY	GAS, MMCF/DAY
DATE SAMPLED: 10-3-86	TYPE OF WATER: ☒ PRODUCED ☐ SUPPLY ☐ WATERFLOOD ☐ SALT WATER DISPOSAL		

WATER ANALYSIS PATTERN
(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	0	
Calcium, Ca^{++}	0	0
Magnesium, Mg^{++}	0	0
Iron (Total) Fe^{+++}	0	0
Barium, Ba^{++}	---	----
Sodium, Na^{+}(calc.)	69.3	1594
ANIONS		
Chloride, Cl^{-}	56	2000
Sulfate, $SO_4^{=}$	7.3	350
Carbonate, $CO_3^{=}$	0	0
Bicarbonate, HCO_3^{-}	6	366
Hydroxyl, OH^{-}	0	0
Sulfide, $S^{=}$	0	0

TOTAL SOLIDS (QUANTITATIVE) 4310

DISSOLVED GASES

Hydrogen Sulfide, H_2S	0	mg/l*
Carbon Dioxide, CO_2	39.6	mg/l*
Oxygen, O_2	6.0	mg/l*

PHYSICAL PROPERTIES

pH	7.80	
Specific Gravity	1.000	
Total Dissolved Solids (calc.)	4310	mg/l*
Stability Index @ 20 °C	-9.99	
@ °C		
$CaSO_4$ Solubility @ 20 °C	27.6	me/l*
@ °C		me/l*
Max. $CaSO_4$ Possible (calc.)	7.3	me/l*
Max. $CaSO_4$ Possible (calc.)		me/l*
Residual Hydrocarbons		ppm(Vol/V
Residual Hydrocarbons		ppm(Vol/V

REMARKS AND RECOMMENDATIONS:

AT 20'C SEVERELY CORROSIVE
AT20'C CALCIUM SULFATE SCALING UNLIKELY

*NOTE: me/l and mg/l are comm
used interchangeably for epm and
respectively. Where epm and ppm
used, corrections should be made
specific gravity.

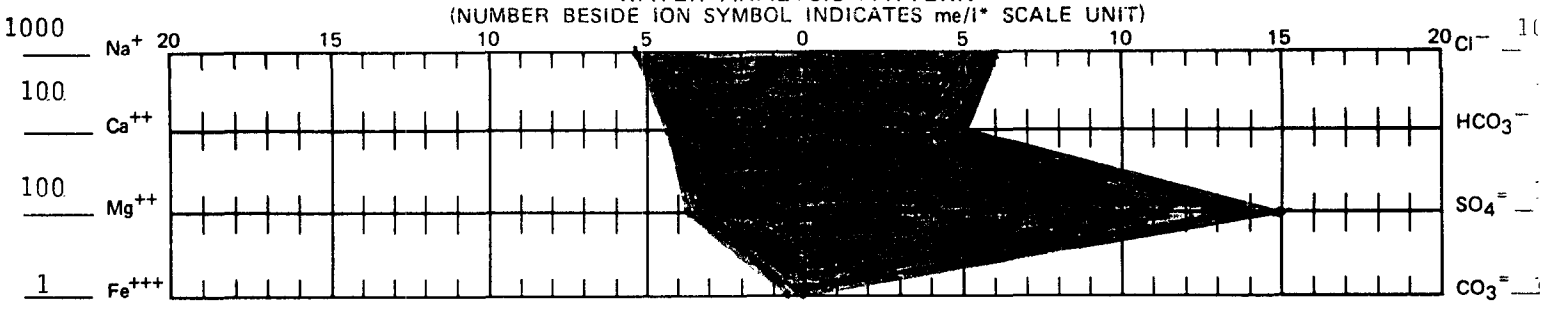
BAKER OIL TREATING REPRESENTATIVE: JOE LEWIS	ADDRESS	TELEPHONE OFF:	RES:
ANALYZED BY: BOB WALLACE	DATE: 10-6-86	DISTRIBUTION	

BAKER OIL TREATING
A Baker Oil Tools Company

WATER ANALYSIS REPORT

COMPANY: Quality Brine			ANALYSIS NUMBER: 1756
COMPANY ADDRESS:			DATE: 10-6-86
FIELD:		COUNTY OR PARISH: LEA	STATE: NM
LEASE OR UNIT:	WELL(S) NAME OR NO.:	WATER SOURCE (FORMATION): BRINE WATER	
DEPTH, FT.:	BHT, °F:	SAMPLE SOURCE:	TEMP, °F:
WATER, BBL/DAY:	OIL, BBL/DAY:	GAS, MMCF/DAY:	
DATE SAMPLED: 10-3-86	TYPE OF WATER: ☒ PRODUCED ☐ SUPPLY ☐ WATERFLOOD ☐ SALT WATER DISPOSAL		

WATER ANALYSIS PATTERN
(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	800	
Calcium, Ca^{++}	420	8400
Magnesium, Mg^{++}	380	4636
Iron (Total) Fe^{+++}	0.54	10
Barium, Ba^{++}	------	------
Sodium, Na^{+}(calc.)	5439.5	125108

ANIONS		
Chloride, Cl^{-}	6085	216000
Sulfate, $SO_4^{=}$	150	7200
Carbonate, $CO_3^{=}$	0	0
Bicarbonate, HCO_3^{-}	5	305
Hydroxyl, OH^{-}	0	0
Sulfide, $S^{=}$	0	0

TOTAL SOLIDS (QUANTITATIVE) 361659

DISSOLVED GASES

Hydrogen Sulfide, H_2S	0	mg/l*
Carbon Dioxide, CO_2	79.2	mg/l*
Oxygen, O_2	0.6	mg/l*

PHYSICAL PROPERTIES

pH	6.95	
Specific Gravity	1.210	
Total Dissolved Solids (calc.)	361649	mg/l*
Stability Index @ 20 °C	+3.97	
@ °C		
$CaSO_4$ Solubility @ 20 °C	20.4	me/l*
@ °C		me/l*
Max. $CaSO_4$ Possible (calc.)	150.0	me/l*
Max. $CaSO_4$ Possible (calc.)		me/l*
Residual Hydrocarbons		ppm(Vol/V
Residual Hydrocarbons		ppm(Vol/V

REMARKS AND RECOMMENDATIONS:

AT 20'C SEVERE CARBONATE SCALING
AT 20'C CALCIUM SULFATE SCALING IS LIKELY

*NOTE: me/l and mg/l are comm
used interchangeably for epm and p
respectively. Where epm and ppm
used, corrections should be made
specific gravity.

BAKER OIL TREATING REPRESENTATIVE: JOE LEWIS	ADDRESS:	TELEPHONE OFF:	RES:
ANALYZED BY: BOB WALLACE	DATE: 10-6-86	DISTRIBUTION:	

P 307 964 012

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Stan Watson	
Street and No. P.O. Box 75	
P.O., State and ZIP Code Jatum, NM	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, June 1985 ★ U.S.G.P.O. 1985-480-794

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 8, 1986

Stan Watson
Quality Brine
P.O. Box 75
Tatum, NM 88267

RE: Discharge Plan (DP-401) Monitoring and Reporting Requirements

Dear Mr. Watson:

Thank you for submitting the chloride analyses required under your discharge plan as part of the August 15, 1986 Quarterly Report. However, your discharge plan requires that the Quarterly Report include chloride **and** total dissolved solids analysis for the three wells **and** a report on the volume of brine sold during the quarter. This report is required as long as the discharge plan is in effect even if no brine is produced or sold during the quarter.

I have enclosed a copy of the Monitoring and Reporting form for your discharge plan as a reminder of the reporting requirements. In addition to the Quarterly Report, the results of the yearly well pressure test are to be submitted with the October 15 Quarterly Report.

We hope you submit the delinquent analyses and information without delay and establish a routine for sampling and submitting the required reports. Failure to submit these reports on time is a violation of your plan and the New Mexico Water Quality Control Commission Regulations and may result in fines of up to $5,000 per day.

I am looking forward to working with you and receiving and reviewing your Quarterly Reports. If you have any questions, please feel free to contact me at the address given on the letterhead or at 827-2902.

Sincerely,

Gerard Koschal
Water Resource Specialist
Ground Water Section

cc: Garrison McCaslin, EID District IV Manager, Roswell

GK:egr

Enclosure

STATE OF NEW MEXICO
ENVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time	Date
	8:15 AM	8-27-86

Originating Party	Other Parties
G. Koschal, UIC	TOS Stan Watson 505-398-3490
	Quality Brine Inc.

Subject: Non compliance of Monitoring Requirement

Discussion: Informed Mr Watson that no reports had been received for 1986. He said business was down and he would sample & send in report

9/2/86 Have letter rough draft ready to go out to Mr Watson if we don't get M+R Requirements in a week to 10 days say 9/8/86
Kevin Lambert

OK received response 9/3/86 for 3 quarter ending 7/30/86 No reports for quarters ending 1/30/86 and 4/30/86 because business was down ~~FDP ST~~ No Volume of Brine sold for quarter supplied 7/30/86 i/ still noncompliant. Also just because business down possible g.w. contamination still exist i/ must submit results every quarter for monitor wells whether producing brine or not Kevin Lambert

Conclusions or Agreements: No TDS for wells reported other quarter

Distribution: Will be calling or writing to denote deficiency.

Signed: [signature]

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 728
LOVINGTON, NM 88260
PHONE (505) 396-5674

WATER ANALYSIS REPORT

Company Quality Brine | Date Sampled 8-28-86

Field | County Lea

Lease | State New Mexico

Well Union LP Gas Company | Formation

Type of Water Domestic - Sub pump | Water, B/D

Sampling Point | Sampled By Gale Blackwell

DISSOLVED SOLIDS				OTHER PROPERTIES
CATIONS	mg/l		meq/l	pH
Sodium, Na+(Calc)		÷ 23		Specific Gravity
Calcium, Ca++		÷ 20		
Magnesium, Mg++		÷ 12.2		H_2S
Barium, Ba++		÷ 68.7		Total Dissolved
Iron, Fe (Total)				Solids
				Total Hardness
ANIONS				
Chloride, Cl-	115.0	÷ 35.5		
Sulfate, So_4=		÷ 48		
Carbonate, Co_3=		÷ 30		
Bicarbonate, HCo_3-		÷ 61		

Remarks and Recommendations

Water well located approximately 100 yards SE of Watson Brine well.

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 728
LOVINGTON, NM 88260
PHONE (505) 396-5674

WATER ANALYSIS REPORT

Company Quality Brine | Date Sampled 8-28-86

Field | County Lea

Lease | State New Mexico

Well Al Griffin | Formation

Type of Water Domestic - Sub Pump | Water, B/D

Sampling Point | Sampled By Gale Blackwell

DISSOLVED SOLIDS				OTHER PROPERTIES
CATIONS	mg/l		meq/l	pH
Sodium, Na+(Calc)		÷ 23		Specific Gravity
Calcium, Ca++		÷ 20		
Magnesium, Mg++		÷ 12.2		H_2S
Barium, Ba++		÷ 68.7		Total Dissolved
Iron, Fe (Total)				Solids
				Total Hardness
ANIONS				
Chloride, Cl-	115.0	÷ 35.5		
Sulfate, So_4=		÷ 48		
Carbonate, Co_3=		÷ 30		
Bicarbonate, HCo_3-		÷ 61		

Remarks and Recommendations

Water well located approximately 75 yards SW of Watson Brine well.

PERMIAN
Treating Chemicals, Inc.

P. O. BOX 728
LOVINGTON, NM 88260
PHONE (505) 396-5674

WATER ANALYSIS REPORT

Company Quality Brine | Date Sampled 8-28-86

Field | County Lea

Lease | State New Mexico

Well Watson | Formation

Type of Water Fresh Water | Water, B/D

Sampling Point | Sampled By Gale Blackwell

DISSOLVED SOLIDS				OTHER PROPERTIES
CATIONS	mg/l		meq/l	pH
Sodium, Na+(Calc)		÷ 23		Specific Gravity
Calcium, Ca++		÷ 20		
Magnesium, Mg++		÷ 12.2		H_2S
Barium, Ba++		÷ 68.7		Total Dissolved
Iron, Fe (Total)				Solids
				Total Hardness
ANIONS				
Chloride, Cl-	28.0	÷ 35.5		
Sulfate, So_4=		÷ 48		
Carbonate, Co_3=		÷ 30		
Bicarbonate, HCo_3-		÷ 61		

Remarks and Recommendations

Water well located approximately 75 yards NE of brine well.

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

County Lea

Ground Water: 59300

NO_3, HC, & Toxics: 59600

UIC: 59500

FACILITY VISITED

Name of Facility: Quality Brine

Location: Tatum, NM

Discharge Plan Number: DP-

Type of Operation: Brine Station

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT

EID Inspector(s): Sares/Baker

Date of Inspection or Visit: 6/16/86

Discharger's Representative Present During EID Visit:

Name: alone - Drive By

Title or Position:

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)

Looked at Surface facilities

b. Sampling of Effluents (give sampling locations)

NO

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

NO

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

NO

e. Other (specify)

Observations and Information Obtained during the Visit:

Drove around Station, Surface looked Clean No sign of spillage. old oil Pits were dismantled and Cleaned up. Overflow-Spill pit was dry. No Berm around tanks

ACTION REQUIRED

File

Paige Morgan
Water Resorce Specialist
P.O. Box 968
Santa Fe, NM 87504-0968

October 11, 1985

Dear Paige,

We would just like to say "Thank You" for all your help in acquireing our discharge plan.

Your professional attitude and understanding is greatly appreciated.

Sincerely,

Quality Brine, Inc.

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

October 9, 1985

Stan Watson
Quality Brine
PO Box 75
Tatum, NM 88267

Re: Approval of Discharge Plan DP-401.

Dear Mr. Watson:

The **discharge plan DP-401 for the Quality Brine station,** located in the SW /4 Section 20, T12S R36E, in the town of Tatum, Lea County, New Mexico, **is hereby approved.** The approved discharge plan consists of:

1) the materials listed in items 1. through 3. of the letter of July 18, 1984 from Paige Grant, EID Water Resource Specialist to Danny Watson, Quality Brine (see attached);

2) "Report II Quality Brine", dated November 20, 1984;

3) the chart from a pressure test conducted on the brine well on September 19, 1985.

The discharge plan was submitted pursuant to Section 5-101.B.3. 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 possible future amendment of the plan. 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.

The monitoring and reporting shall be as specified in the above-referenced materials. These 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.**"

Pursuant to subsection 3-109.G.4., this plan approval is for a period of five years. This **approval will expire on October 9, 1990,** and you should submit an application for renewed approval in ample time before that date.

Thank you for your cooperation during the discharge plan and review process.

Sincerely,

Richard Perkins
Acting Bureau Chief
Ground Water/Hazardous Waste Bureau

RP:PGM:pgm

cc: John Guinn, EID District IV Manager

P 612 426 509

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Quality Brine

Sent to Stan Watson	
Street and No. P. O. Box 25	
P.O., State and ZIP Code Datura, N. M.	
Postage	$ 88267
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

MONITORING AND REPORTING FORM

ALL BLANKS MUST BE COMPLETED.

CHECK ALL APPLICABLE BOXES

ORIGINAL DP: X
ORIG. DP PEND. APPROV: ___
RENEWAL: ___
RENEWAL PEND: ___
MODIFICATION: ___
MODIFICATION PENDING: ___

DISCHARGE PLAN NUMBER: 401

SIC NUMBER: _____

NAME OF FACILITY: Quality Brine Inc.

LOCATION OF FACILITY: 2 blks. w. of intersection in middle of Tatum.

ALTERNATE OR PAST NAME OF FACILITY: _____

CITY OR CLOSEST TOWN: Tatum USGS QUAD: Tatum North M-91

COUNTY: Lea TWP: 12S RGE: 36E SEC: 20

CONTACT PERSON: Watson (LAST NAME), Stan (FIRST NAME) TITLE: _____

ADDRESS OF CONTACT PERSON: PO Box 75
Tatum, NM 88267

TELEPHONE: 505-398-3490

TYPE OF FACILITY: brine production and sales

MEANS OF DISCHARGE (LAGOON, LEACH FIELD, OTHER -SPECIFY): _____

injection well/ steel tanks for storage of brine

REVIEWER: (CURRENT) Morgan (LAST NAME), Paige (FIRST NAME)

DATE APPROVED: 10/9/85 DATE OF EXPIRATION: 10/9/90

MONITORING REQ: (COMMENT, IF NECESSARY, ON BACK)

SAMPLING SITE OR ID	STORET CODE (SAMP. SITE)	PARAMETER(S)	DATE DUE
water supply well		TDS, Chloride	April 15, July 15, Oct 15, Jan 15
Al Griffin well		" "	" "
Buckeye Products well		" "	" " " "

SAMPLING SITE OR ID	STORET CODE (SAMP. SITE)	PARAMETER(S)	DATE DUE
brine storage		volume sold for quarter	as for TDS, Cl
injection well*		pressure test	10/15

COMMENTS: *Pressure test may be conducted by EID during inspection.

	YES	NO
PRE - 1977 DISCHARGER	___	X

OTHER APPLICABLE PERMITS:	YES	NO
RCRA	___	X
RADIOACTIVE MAT.	___	X
NPDES	___	X
UST	___	X

FOR EID USE ONLY

STATUS OF DP:

ACTIVE:	X
WITHDRAWN:	___
EXPIRED, NOT RENEWED:	___
INACTIVE:	___
NOT YET APPROVED:	___

SEND REPORTS TO:

GROUND WATER SECTION
EID: GROUND WATER/HAZARDOUS WASTE BUREAU
P.O. BOX 968
SANTA FE, NM 87504-0968

EID BUCKSLIP

CHECK ONE:

- [x] LETTER TO Quality Brine for Perkins' signature
- [ ] MEMO TO _____
- [ ] PRESS RELEASE
- [ ] OTHER

SUBJECT: DP approval

DRAFTED BY: Patsy Morgan 9/25/85 (Date)

CONCURRENCES:

NAME:		INITIAL	DATE REC'D	DATE APPROVED
~~Wayne Hoad~~ Jon Copeland	Sect. Mgr.	RC	10/7/85	10/7/85
Richard Perkins	Bur. Chief	RP	____	10/8/85
Richard Holland	Dep. Dir.	____	____	____
Denise Fort	Director	____	____	____

FINAL DECISION NEEDED BY October 9 (date) BECAUSE Assurance of discontinuance specified 10/1/85 for approval/disapproval, but timing of publication of public notice was such that 10/9 is the earliest we can approve.

COMMENTS BY DRAFTER OR REVIEWER(S):

Another brine well brought in under an Assurance which is now in full compliance.

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

Stan Watson
Quality Brine, Inc.
PO Box 75
Tatum, NM 88267

September 26, 1985

Dear Mr. Watson:

Thank you for your letter of September 19th, in which you included the chart from a recent pressure test conducted on your brine well and reported on your plans to line your emergency pond.

I am still puzzled by the slight, continuous drop in pressure throughout the test. However, since it represents only about a 2% loss in pressure, I am fairly confident that the well is fundamentally sound. There is probably still some leakage at some point in the plumbing.

Pressure tests will be required on an annual basis once your discharge plan for this facility is approved. If three consecutive whole-system pressure tests continue to show the same slight but continuous bleed-off in pressure, you may be required to set a packer and run a pressure test on the casing alone. This could be done at some time when the well requires servicing in any case, so as to minimize the disruption to your operation.

For the time being, however, the information you have provided on the pressure test and your plans to line the emergency pond satisfy the final requirements of your discharge plan. The public notice announcing receipt at EID of your discharge plan was published on or before September 9th; EID is required to wait for 30 days after publication of a public notice before taking any further action. Assuming no public comment is received which would alter the agency's decision, your approval letter will be mailed out October 9th.

Thank you for your patience and cooperation in seeing this discharge plan process through.

Sincerely,

Paige Morgan

Paige Grant Morgan
Water Resource Specialist

PGM:pgm

cc: John Guinn, EID District IV Manager.

MONITORING AND REPORTING FORM

ALL BLANKS MUST BE COMPLETED.

CHECK ALL APPLICABLE BOXES

ORIGINAL DP: X
ORIG. DP PEND. APPROV: ___
RENEWAL: ___
RENEWAL PEND: ___
MODIFICATION: ___
MODIFICATION PENDING: ___

DISCHARGE PLAN NUMBER: 401

SIC NUMBER: ___

NAME OF FACILITY: Quality Brine Inc.

LOCATION OF FACILITY: 2 blks. w. of intersection in middle of Tatum.

ALTERNATE OR PAST NAME OF FACILITY: ___

CITY OR CLOSEST TOWN: Tatum USGS QUAD: Tatum North M-91

COUNTY: Lea TWP: 12S RGE: 36E SEC: 20

CONTACT PERSON: Watson (LAST NAME), Stan (FIRST NAME) TITLE: ___

ADDRESS OF CONTACT PERSON: PO Box 75
Tatum, NM 88267

TELEPHONE: 505-398-3490

TYPE OF FACILITY: brine production and sales

MEANS OF DISCHARGE (LAGOON, LEACH FIELD, OTHER -SPECIFY): injection well/ steel tanks for storage of brine

REVIEWER: (CURRENT) Morgan (LAST NAME), Paige (FIRST NAME)

DATE APPROVED: 10/9/85 DATE OF EXPIRATION: 10/9/90

MONITORING REQ: (COMMENT, IF NECESSARY, ON BACK)

SAMPLING SITE OR ID	STORET CODE (SAMP. SITE)	PARAMETER(S)	DATE DUE
water supply well		TDS, Chloride	April 15, July 15, Oct 15, Jan 15
Al Griffin well		" "	" "
Buckeye Products well		" "	" " " "

SAMPLING SITE OR ID	STORET CODE (SAMP. SITE)	PARAMETER(S)	DATE DUE
brine storage		volume sold for quarter	as for TDS, Cl
injection well*		pressure test	10/15

COMMENTS: *Pressure test may be conducted by EID during inspection.

	YES	NO
PRE - 1977 DISCHARGER	___	X

OTHER APPLICABLE PERMITS:	YES	NO
RCRA	___	X
RADIOACTIVE MAT.	___	X
NPDES	___	X
UST	___	X

FOR EID USE ONLY

STATUS OF DP:

ACTIVE:	X
WITHDRAWN:	___
EXPIRED, NOT RENEWED:	___
INACTIVE:	___
NOT YET APPROVED:	___

SEND REPORTS TO:

GROUND WATER SECTION
EID: GROUND WATER/HAZARDOUS WASTE BUREAU
P.O. BOX 968
SANTA FE, NM 87504-0968

September 19, 1985

Paige Morgan
EID
Water Resource Specialist
P.O. Box 968
Santa Fe, NM 87504-0968

Dear Mrs. Morgan,

Here is a pressure chart as requested.

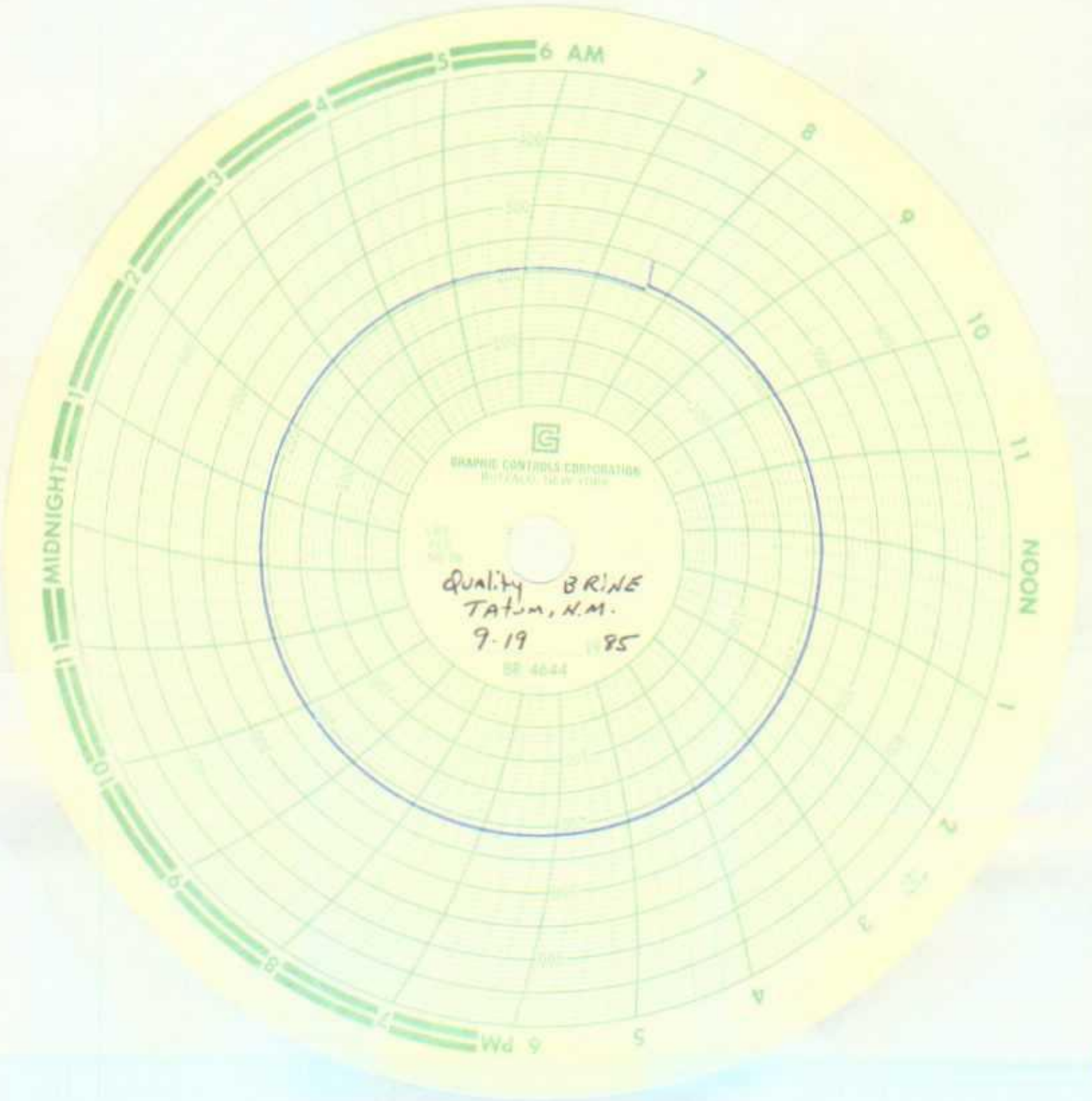
I have a roustabout gang set up to double line our emergency pit. They will double line the pit with 6 mill black plastic. Then cover it with "chicken wire" to keep the pit clear of trash. I'll send you a picture upon completion of this project.

Thank You,

Stan Walton

Quality Brine
Tatum, NM

SW/pr


6 AM
NOON
MIDNIGHT
GRAPHIC CONTROLS CORPORATION
Quality BRINE
TATUM, N.M.
9-19 85

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 30, 1985

Stan Watson
Quality Brine
P.O. Box 75
Tatum, New Mexico 88267

Dear Mr. Watson:

Enclosed is a copy of the public notice pertaining to your proposed discharge which was issued by this division pursuant to New Mexico Water Quality Control Commission Regulations, Section 3-108.

If you have any questions, please do not hesitate to contact me at the above address and telephone number (ext. 279).

Sincerely,

Maxine S. Goad

Maxine S. Goad
Program Manager
Ground Water Section

MSG:jba

Enclosure

PS Form 3800, Feb. 1982 ☆ U.S.G.P.O. 1983-403-517

Sent to	Stan Watson Quality Brine
Street and No.	P.O. Box 75
P.O., State and ZIP Code	Tatum, N.M. 88267
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

(See Reverse)

P 612 426 552

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

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

August 30, 1985

Board of County Commissioners
County of Lea
Lovington, New Mexico 88260

Board of County Commissioners:

Enclosed is a public notice which includes notice of proposed discharge plan(s) for one or more operations located in your county.

If you have any questions, please do not hesitate to contact me at the address and telephone number given above.

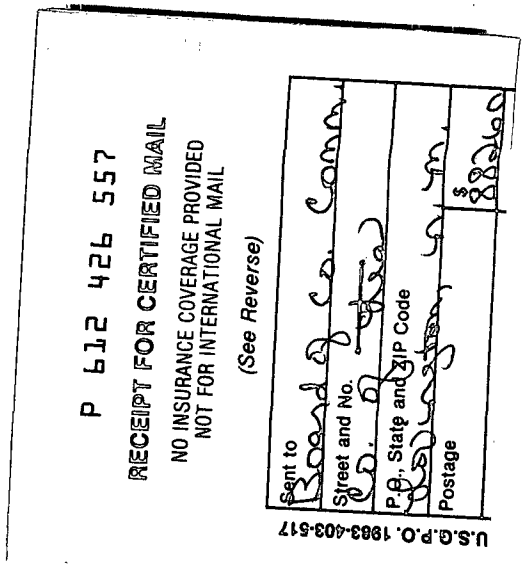
Sincerely,

Maxine S. Goad

MAXINE S. GOAD
Program Manager
Ground Water Section

MSG: mp

Enclosure



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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

August 30, 1985

The Honorable John C. Gooch, Mayor
10 North Avenue A
Tatum, New Mexico 88267

Dear Mayor Gooch:

Enclosed is a public notice which includes notice of a proposed discharge plan(s) for one or more operations in or near your city.

If you have any questions, please do not hesitate to contact me at the above address and telephone number (ext. 279).

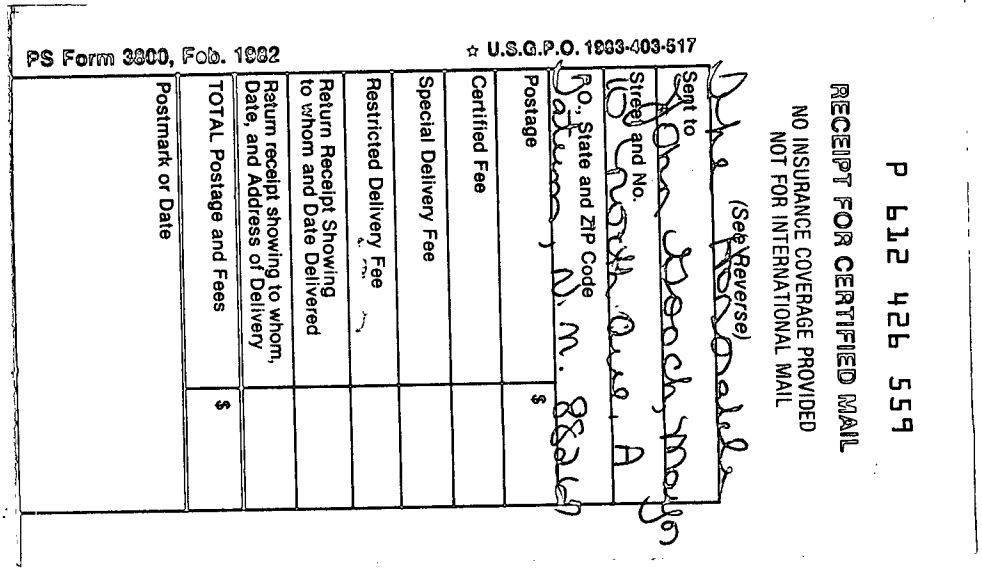
Sincerely,

Maxine S. Goad

Maxine S. Goad
Program Manager
Ground Water Section

MSG: mp

Enclosure



TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

STATE OF NEW MEXICO

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

August 30, 1985

Lovington Daily Leader
P.O. Box 1686
Lovington, New Mexico 88260

Dear Sir or Madam:

Please publish the enclosed public notice concerning discharge plan(s) in the classified legal section on or before September 9, 1985.

Send your statement and two (2) copies of the Affidavit of Publication tc me at the above address.

Please print only the section(s) highlighted in yellow.

Thank you.

Sincerely,

Maxine S. Goad
Program Manager
Ground Water Section

MSG:jba

Enclosure

AUGUST 30, 1985

TO BE PUBLISHED ON OR BEFORE SEPTEMBER 9, 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-399) BOWLIN'S INCORPORATED, 136 Louisiana, N.E., Albuquerque, New Mexico 87108, proposes to discharge domestic sewage effluent, into a 0.79 acre total evaporation lagoon, from its restaurant, Dairy Queen, and retail merchandise store located in Section 20,T9N, R15E, Torrance County, New Mexico. Total volume in gallons per day of discharge will be approximately 5000. Ground water most likely to be affected is at a depth of approximately 950 feet and has approximately 4000 parts per million of total dissolved solids.

(DP-400) INTEL CORPORATION, 4100 Sara Road, Rio Rancho, New Mexico 87124, has submitted a discharge plan for its proposed Fab IX semiconductor manufacturing facility. The facility is located in the N 1/2 of Section 32, T12N, R3E in Sandoval County, New Mexico immediately south of the existing Fab VII manufacturing facility (DP-225 approved May 26, 1982). Approximately 220,000 gallons per day of plant water will be neutralized and discharged to the city of Albuquerque Sanitary Sewer System. Additional wastes will be discharged into holding tanks enclosed in liquid tight, concrete vaults. These tanks will be periodically emptied with the waste being transported to and disposed of at an EPA approved disposal facility. Waste water will be delivered to the neutralization system or to the holding tanks through exposed pipelines in lined concrete opened trenches. Ground water is at a depth of approximately 260 to 280 feet with a total dissolved solids content of about 300 mg/l. .

(DP-401) QUALITY BRINE, Stan Watson, P.O. Box 75, Tatum, New Mexico 88267, has submitted a discharge plan to cover operation of a brine extraction well and associated surface facilities in the SW/4 of Section 20, T12S, R36E in Lea County, New Mexico. The facility is currently in operation under the terms of an Assurance of Discontinuance granted by the Water Quality Control Commission. Brine is produced by injecting fresh water (total dissolved solids- TDS-content 780 mg/l) into dry salt beds of the Salado Formation at a depth of 2250 to 2920 feet. Brine is then returned to the surface and stored in two 1000 barrel steel tanks, from which it is pumped to tank trucks for sale on demand. Volume of brine sold varies widely; during September through November 1984, 26,133 bbls were sold. Ground water most likely to be affected by this operation is at a depth of 30 to 40 feet and has a TDS concentration of approximately 700 to 800 mg/l.

(DP-114) SACRAMENTO METHODIST ASSEMBLY, NEW MEXICO UNITED METHODIST CAMPS BOARD, INC., Don L. Forsman, Chairman, P.O. Box 188, Sacramento, New Mexico 88347, proposes to renew approved discharge plan DP-114 and continue discharging an average of 14,757 gallons per day of aerobically treated and chlorinated sewage effluent from the existing church camp located approximately 1/2 mile south of the village of Sacramento, Section 36, R13E, T17S, Otero County, New Mexico. The discharge will flow into a small tributary of Agua Chiquita Creek. The ground water most likely to be affected is at a depth of ranging from 50 to 100 feet, with a total dissolved solids concentration of 377 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

August 28, 1985

Stan Watson
Quality Brine
PO Box 75
Tatum, NM 88267

Dear Mr. Watson:

Thank you for meeting with Steve Sares and me during our trip to Tatum last Thursday. You are to be commended for closing the disposal pond behind your facility, as you had agreed to do during our March inspection. I look forward to receiving a copy of the chart from your pressure test when you carry it out.

With regard to your proposal to line the emergency pit with bentonite: I have checked with suppliers of bentonite who have extensive experience in application of the material to ponds that are intended to contain a wide range of fluids, and they confirmed my impression that concentrated brine would cause the bentonite to flocculate, preventing it from forming an impermeable seal. It is theoretically possible, as I mentioned to you during our August 22nd meeting, that if you maintained a sufficient amount of fresh water in the pond you could dilute the brine sufficiently so that the bentonite would form an adequate seal. However, with the uncertainties involved in that method, I would find it necessary to require some type of monitoring system for the emergency pond. There are synthetic liners that are comparable in price to bentonite; I recommend that you investigate the use of such a material to line your emergency pond. It is to your advantage to design your facility in such a way that ground water quality will be protected; otherwise you could be liable for an expensive ground water restoration effort at a later point in time.

Let me remind you that EID approval or disapproval of your discharge plan is due on or before October 1, according to the schedule of compliance in your Assurance of Discontinuance. There is very little remaining to make your discharge plan approvable. Let me know if you see any problem with completing these last details in advance of the deadline.

Sincerely,

Paige Grant Morgan
Water Resource Specialist

PGM:pgm

cc: John Guinn, EID District IV Manager

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

County Lea

Ground Water: 59300

NO_3, HC, & Toxics: 59600

UIC: 59500

FACILITY VISITED

Name of Facility: Quality Brine

Location: Tatum

Discharge Plan Number: DP- none yet assigned

Type of Operation: brine mfg + sales

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT

EID Inspector(s): Jobie Morgan, Steve Sanes

Date of Inspection or Visit: 8/22/85

Discharger's Representative Present During EID Visit:

Name: Danny & Stan Watson

Title or Position: partners

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)
discussed that railroad disposal pond in back of tanks had been torn down.

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)

e. Other (specify) discussed final requirements of discharge plan.

Observations and Information Obtained during the Visit:

ACTION REQUIRED

7/25/85: Called Quality to prompt them to respond to my April letter. Left message with secretary.

Sara Morgan

8/6/85: Told Stan we'd be dropping by to see that the pond was closed and to complete the process of ~~~~ the discharge plan. Friday morning, 8/23.

8/22/85: Visited Quality. Disposal pit in back was closed - they said they would complete the rest of the DP requirements ASAP. Wanted to know if they could line emergency pit w/ bentonite -- I said I would check w/ specialists to see if brine spillage would be retained in a bentonite-lined pit, and let him know.

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

also Be, Sr, Yt

* impossible to test conductance of brine — too conductive for our meter

FIELD TRIP REPORT
GROUND WATER SECTION

County Lea

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

FACILITY VISITED
Name of Facility: Quality Brine
Location: Tatum (≈ 60 mi. n. of Hobbs)

Discharge Plan Number: DP-none
Type of Operation: brine extraction well & associated surface facilities

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT
EID Inspector(s): Paige Morgan, Steve Sares
Date of Inspection or Visit: 3/26/85
Discharger's Representative Present During EID Visit:
Name: Danny Watson
Title or Position: co-owner w/ Stan Watson, Phil Withrow
Purpose of Visit:
a. Evaluation of Proposed Discharge Plan ✓
b. Compliance Inspection of Discharge with Approved Plan
c. Other (specify) mechanical integrity test of brine well
Inspection Activities During Field Visit:
a. Inspection of Facilities or Construction (specify)
Looked at brine well head, storage tanks, emergency pit, pit used for storage of waste oil from trucks that have come to the facility to load brine.
b. Sampling of Effluents (give sampling locations)
Sampled brine from tank; ~~source water well from storage tank.~~
c. Sampling of Ground Water (give names or locations of wells)
source water well; water sampled from storage tank
d. Evaluation of geology, soils, water levels or other physical characteristics of the location (specify)
A trench about 10' deep had been excavated behind oil storage pit. No oil appeared to be seeping to the walls of the trench,
e. Other (specify) indicating that the liner must be fairly effective (although it appeared flimsy and torn).

Observations and Information Obtained during the Visit:

The Watsons intend to close the waste storage pit soon.
The brine well pressure test showed a slight bleed-off in pressure. Watson thinks this may be due to faulty valves.

ACTION REQUIRED

Request affidavit of high-pressure test run when well was constructed. Recommend retest after faulty valves are fixed.

REPORT TO: Steve 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-0525
DATE RECEIVED 3/29/85
DATE REPORTED 6/11/85 JTA (Initials)
SLD USER CODE NUMBER 59500

Well Location Address Quality Brine Box 75 Tatum, NM 88267

Point of Collection Fresh water tank

Well Owner/User Danny Watson

Number of People Drinking Water from Well 0

Collected 850326 (Date) 0937 (Time) By S. Sares (Name) EID (Agency)

Well Depth —

Water Level —

Taste? Odor? Color? Collectors Remarks

pH 6.88

Conductivity (Uncorrected) 910 umho/cm

Temperature 17 °C

Conductivity at 25°C _____ umho/cm

RECEIVED
JUN 13 1985
GROUND WATER, HAZARDOUS WASTE BUREAU

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
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

8503260937

ICAP -SCREEN

Quality Brine

Lab Number: HM 525

Sample Code: Fresh Water Tank

Date Submitted: 3/29/85

Date Reported: 6/11/85

By: Sares

By: J. Ashby

Determination	Concentration (µg/ml)
Aluminum	<.10
Barium	<.10
Beryllium	<.10
Boron	.24
Cadmium	<.10
Calcium	110.
Chromium	<.10
Cobalt	<.10
Copper	<.10
Iron	<.10
Lead	<.10
Magnesium	23.
Manganese	<.05
Molybdenum	<.10
Nickel	<.10
Silicon	20.
Silver	<.10
Strontium	1.0
Tin	<.10
Vanadium	<.10
Yttrium	<.10
Zinc	<.10

ATOMIC ABSORPTION ANALYSES

Arsenic _____ µg/ml

Selenium _____ µg/ml

Mercury _____ µg/ml

REPORT TO: Steve 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-0526
DATE RECEIVED 3/29/85
DATE REPORTED 6/18/85 JTA
Initials
SLD USER CODE NUMBER 59500

Well Location Address Quality Brine Box 75, Tatum, NM 88267

Point of Collection Brine Tank

Well Owner/User Danny Watson

Number of People Drinking Water from Well 0

Collected 850326 (Date) 0950 (Time) By S. Sares (Name) EID (Agency)

Well Depth —

Water Level —

pH 6.18

Conductivity (Uncorrected) OFF SCALE umho/cm

Taste? Odor? Color? Collectors Remarks

BRINE - VERY HIGH TDS

Temperature 15 °C

Conductivity at 25°C ____ umho/cm

PROJECT:

From ____, A-H_2SO_4 Sample:

From ____, NA Sample: Date Analyzed

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

From F, A-HNO_3 Sample:

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

GROUND WATER/HAZARDOUS WASTE BUREAU
RECEIVED
JUN 24 1985
LIQUID WASTE/GROUND WATER SURVEILLANCE

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

8503260950

ICAP -SCREEN

Lab Number: HM 526

Sample Code: Quality Brine, Tatum NM

Date Submitted: 3/29/85

Date Reported: 6/17/85

By: S. Sares

By: J. Kelly

Determination	Concentration (µg/ml)
Aluminum	<1.0
Barium	<1.0
Beryllium	<1.0
Boron	<10.
Cadmium	<1.0
Calcium	800.
Chromium	<1.0
Cobalt	<1.0
Copper	<1.0
Iron	<1.0
Lead	<1.0
Magnesium	950.
Manganese	<1.0
Molybdenum	<1.0
Nickel	<1.0
Silicon	<10.
Silver	<1.0
Strontium	12.
Tin	<1.0
Vanadium	<1.0
Yttrium	<1.0
Zinc	<1.0

ATOMIC ABSORPTION ANALYSES

Arsenic _____ µg/ml

Selenium _____ µg/ml

Mercury _____ µg/ml

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 3 / 29 / 85	LAB NO. WC-1296	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 59500	
Collection DATE 85 / 03 / 26	SITE INFORMATION ►	Sample location QUALITY Brine, BOX 75, TATUM NM 88267	
Collection TIME 0938		Collection site description FRESH WATER TANK	
Collected by — Person/Agency SARES/EID			

SEND FINAL REPORT TO ►
GROUND WATER & HAZARDOUS WASTE BUREAU
NM ENVIRONMENT IMPROVEMENT DIVISION/HED
Crown Building, PO Box 968
Santa Fe, NM 87504-0968
Attn: Steve Sares

GROUND WATER & HAZARDOUS WASTE BUREAU

Station/ well code

Owner DANNY WATSON

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☐ Dipped ☒ Tap	Water level —NA—	Discharge —NA—	Sample type FRESH WATER
pH (00400) 6.88	Conductivity (Uncorrected) 910 µmho	Water Temp. (00010) 17 °C	Conductivity at 25°C (00094) µmho

Field comments

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☐ **NF:** Whole sample (Non-filtered) ☒ **F:** Filtered in field with 0.45 µmembrane filter ☐ **A:** 2 ml H_2SO_4/L added

☒ **NA:** No acid added ☐ Other-*specify:* 850326 0938

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)		µmho	
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☐ Other:			
☐ Other:			
☐ Other:			

F, NA		Units	Date analyzed
☒ Calcium (00915)	110	mg/l	4/15
☒ Magnesium (00925)	29.7	mg/l	4/15 7.78
☒ Sodium (00930)	59.7	mg/l	4/16
☒ Potassium (00935)	2.73	mg/l	4/16
☒ Bicarbonate (00440)	176.4	mg/l	5/3
☒ Chloride (00940)	102.1	mg/l	4/15
☒ Sulfate (00945)	253.1	mg/l	4/4
☒ Total filterable residue (dissolved) (70300)	783	mg/l	5/9
☐ Other:			

NF, A-H_2SO_4		
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l
☐ Ammonia-N total (00610)		mg/l
☐ Total Kjeldahl-N ( )		mg/l
☐ Chemical oxygen demand (00340)		mg/l
☐ Total organic carbon ( )		mg/l
☐ Other:		
☐ Other:		

F, A-H_2SO_4		
☐ Nitrate-N +, Nitrate-N dissolved (00631)		mg/l
☐ Ammonia-N dissolved (00608)		mg/l
☐ Total Kjeldahl-N ( )		mg/l
☐ Other:		

Analyst	Date Reported	Reviewed by
	5 / 13 / 85	

Laboratory remarks

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SL

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 3 | 29 | 85 — LAB NO. NMC-1297 — USER CODE: ☐ 59300 ☐ 59600 ☒ OTHER: 59500

Collection DATE: 85 | 03 | 26

Collection TIME: 0951

Collected by — Person/Agency: PAIGE MORGAN/EID

SITE INFORMATION ►

Sample location: Quality Brine, Box 75, Tatum NM 88267

Collection site description: BRINE TANK

SEND FINAL REPORT TO ►

GROUND WATER & HAZARDOUS WASTE BUREAU
NM ENVIRONMENT IMPROVEMENT DIVISION/HED
Crown Building, PO Box 968
Santa Fe, NM 87504-0968
Attn: SARES/MORGAN

Station/ well code

Owner: DANNY MOSLEY

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☐ Pump ☒ Tap	Water level: —NA—	Discharge: —NA—	Sample type: BRINE
pH (00400): 6.18	Conductivity (Uncorrected): OFF SCALE µmho	Water Temp. (00010): 15 °C	Conductivity at 25°C (00094): µmho

Field comments: BRINE - VERY HIGH TDS

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☐ **NF:** Whole sample (Non-filtered) ☒ **F:** Filtered in field with 0.45 µmembrane filter ☐ **A:** 2 ml H_2SO_4/L added

☒ **NA:** No acid added ☐ Other-*specify:* 85C326095J

ANALYTICAL RESULTS from SAMPLES

NF, NA		Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)		µmho	
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☐ Other:			
☐ Other:			
☐ Other:			

F, NA		Units	Date analyzed
☒ Calcium (00915)	956	mg/l	4/15
☒ Magnesium (00925)	1040	mg/l	4/15 137.4
☒ Sodium (00930)	61870	mg/l	4/16
☒ Potassium (00935)	801	mg/l	4/16
☒ Bicarbonate (00440)	157.2	mg/l	5/7
☒ Chloride (00940)	200,312.6	mg/l	5/3
☒ Sulfate (00945)	9415	mg/l	4/4
☒ Total filterable residue (dissolved) (70300)	288,350	mg/l	5/9
☐ Other:			

NF, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

F, A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N dissolved (00631)		mg/l	
☐ Ammonia-N dissolved (00608)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Other:			

Analyst:

Date Reported: 5 | 13 | 85

Reviewed by:

Laboratory remarks:

SLD 726 (12/84) *DISTRIBUTION:* **WHITE** — EID, GW&HW Bureau **CANARY** — WS System **PINK** — EID Local Office **GOLDENROD** — SLD

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

April 4, 1985

Stan Watson
QUALITY BRINE
P.O. Box 75
Tatum, NM 88267

RE: Completion of Discharge Plan according to Quality Brine's Assurance of Discontinuance.

Dear Mr. Watson:

Please extend by thanks to Danny Watson for his help and cooperation during our visit to the Quality Brine station on Tuesday, March 26th. I'm sorry we missed you on that trip.

Please note that according to the schedule in your Assurance, you were to have completed your discharge plan and submitted it for review at EID by March 29th. Completing the plan will entail only responding to my letter of January 18th and to this letter. Please respond as soon as possible, to be consistent with the terms of the Assurance.

1. As I discussed with Doris Watson by phone on April 2nd, the pressure test that we witnessed on your brine well was inconclusive, due to a small but continuous drop in pressure. In a good test we would expect to see an initial small (1 to 3%) drop in pressure, but then a stabilization. Therefore, in order to demonstrate the mechanical integrity of your brine well for purposes of the discharge plan, please submit an affidavit from the person who conducted the initial pressure test on your well. State the date, pressure and length of the test and a statement that the casing held the pressure throughout the test. It would also be helpful if you would check the valves on the well, replace them if necessary, and rerun the test to see if that was the only source of a leak. This will not be required as a condition of discharge plan approval but will be required within a year of discharge plan approval. If you could do it sooner, it would provide us with a greater measure of confidence that the well is sound.

2. Danny Watson indicated that the pit which has been provided behind your tank area for disposal of oil, will be closed. He indicated that you would pump out the oil and recontour the pit. Since EID approval or disapproval of your discharge plan is scheduled on or before October 1, 1985, please notify me that this pit has been closed well in advance of that date.

I look forward to your early reply.

Sincerely,

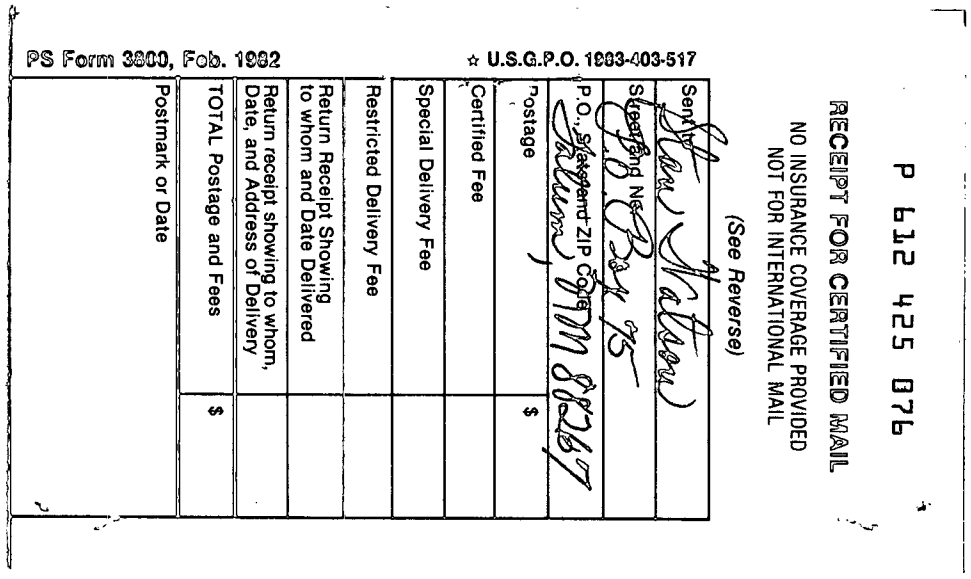
Paige Grant Morgan

Paige Grant Morgan
Water Resource Specialist
Ground Water Section

PGM:jba

cc: John Guinn, EID District IV, Roswell

mse



PS Form 3800, Feb. 1982 ☆ U.S.G.P.O. 1983-403-517

P 612 425 876

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Stan Watson
Street and No. P.O. Box 75
P.O., State and ZIP Code Tatum, NM 88267

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

STATE OF NEW MEXICO
HEALTH & ENVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 3:00 p.m.	Date 4/2/85
Originating Party	Other Parties	
Paige Morgan	Iris Watson	

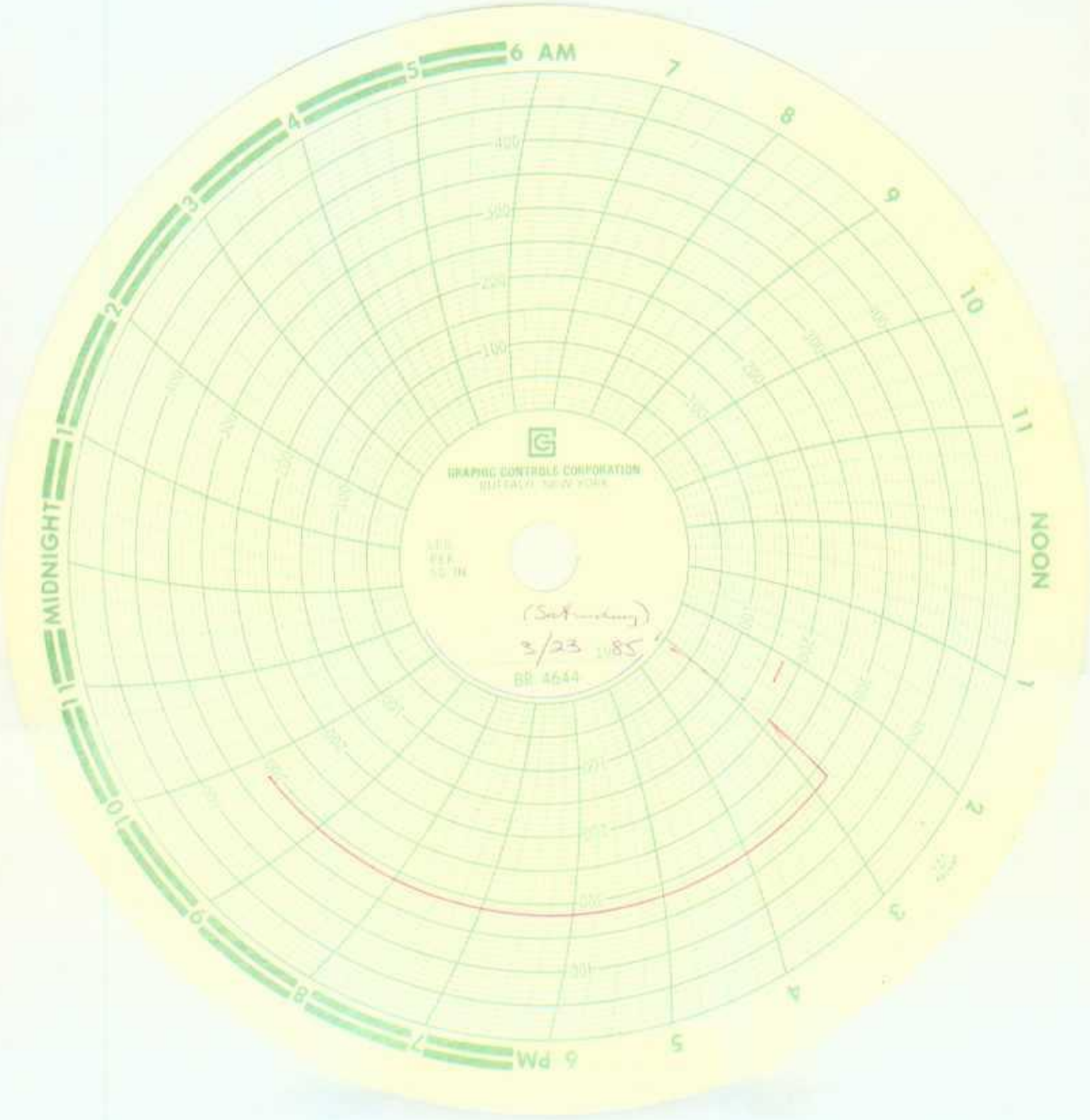
Subject Response to inconclusive pressure test

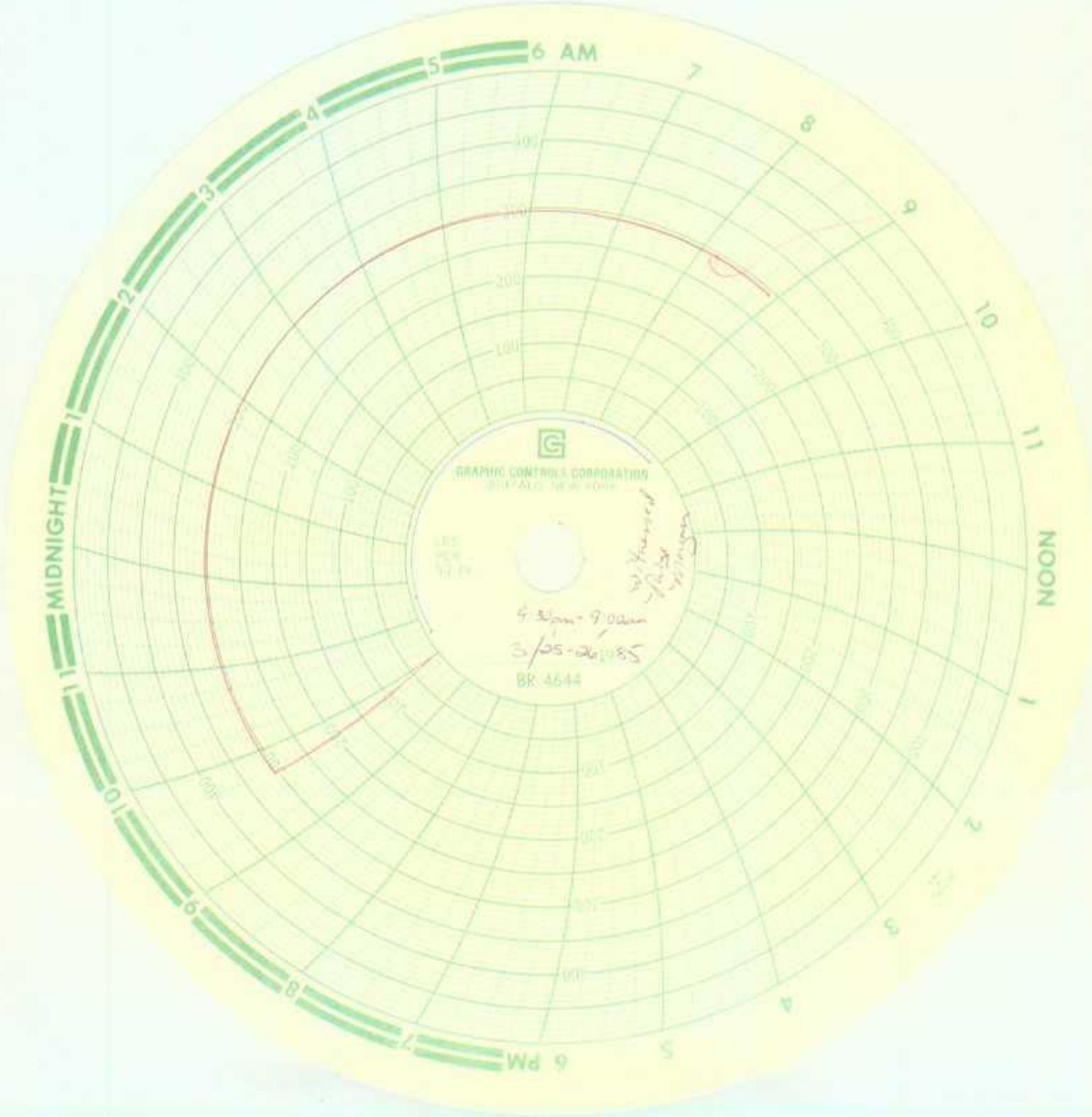
Discussion I said that for purposes of the DP I would accept an affidavit from the person who ran the pressure test at the time the well was constructed, stating date, pressure length it was applied, and the fact that the casing did not leak. However I would appreciate it if the Watsons would check and replace the valves, on the assumption that the drop-off in pressure resulted from faulty valves; and then re-run the pressure test and send me the chart.

Conclusions or Agreements Iris said she would pass on the message.

Distribution

Signed Paige Morgan


6 AM
NOON
MIDNIGHT
6 PM
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
(Saturday)
3/23 1985
BR 4644


6 AM
NOON
6 PM
MIDNIGHT
GRAPHIC CONTROLS CORPORATION
4:30pm - 9:00am
3/25-26/1985
BR 4644

3/26/85: Quality Brine -
Danny Watson

pressure chart shows slight steady decline over ≈ 12 hrs.
Normal op press. ≈ 350 lbs -
last run of a little > 300.
Said they ran another test w/ recorder & it showed same ≈ 10 lb decline in 12 hrs at ≈ 300 lb starting pressure.

Pit behind tanks full of oil dumped by trucks that come for brine.
Danny says they'll close that pit before DP approval.
We says when they clean tank bottoms they have to truck it to Pollution Control at Highway Bar for disposal.

- "salt cake with pit on edge of it" - dispose of drilling mud etc.

* Wants to know if there's any way they could dump and dispose of oil waste in the pit onsite prior to closing the pit.

It's been about 3 days since they made brine.
Valves have been holding.

Rough estimate of hole size 10,000 bbls.
800' of salt had to pick up folding a couple of times

Sample from source water
well: pH: 6.89 T: 17°C
Spec cond. 91 × 10 = 910
8503260937
+38

Sample of brine: pH: 6.18
T: 15°C cond: —
(we learned on previous
attempt that cond. is too
high of brine to measure w/
our meter) 8503260950
& 51

150 bbls standard
truckload - each truck
writes up a ticket in
addition to ~~[illegible]~~ gauge
running when taking
brine

They allow pressure to rise

to 450 psi before reversing
flow to dissolve encrustation
in tubing.

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

CERTIFIED MAIL _ RETURN RECEIPT REQUESTED

January 18, 1985

Stan Watson
Quality Brine
Box 75
Tatum, NM 88267

RE: Response to Quality Brine's second submittal under the Assurance of Discontinuance.

Dear Mr. Watson:

Thank you for taking the time to di[illegible]s your above-referenced submittal by phone with me on January 16, 1985. This letter will briefly repeat the points we agreed to during that conversation, with a couple of additional items that occurred to me on rereading your submittal and my July 18, 1984 letter to you.

1. You will prepare and submit a contingency plan for unanticipated leaks and spills from the surface facilities and injection well at Quality Brine.

2. On a quarterly basis, you will report to EID (a) the total water used for injection and (b) TDS from the two water wells closest to the brine well (Al Griffin and Buckeye Gas Products). Will you also commit to reporting chloride as well as TDS from these two monitor wells, and TDS and chloride from your source well, and brine sales for each quarter?

3. Your plugging and abandonment procedure will involve leaving the salt cavity full of brine, setting a plug at the base of the casing, and filling the casing from bottom to top with cement.

4. Due to an apparent error in the analysis submitted of your injection water, you will submit a second analysis from this source carried out by another laboratory. Also, please submit a complete analysis for which ever water well is closer to your brine well (Griffin or Buckeye); and an analysis of your brine, as described under III.C.6 of the outline provided to you to guide preparation of your discharge plan.

5. EID will carry out an inspection of your facility including witnessing a pressure test such as we discussed by phone. I hope to make our trip to Quality Brine during the first week in February, and will notify you by phone when the trip is confirmed.

Again, thank you for your cooperation. I look forward to our visit to Quality Brine.

Sincerely,

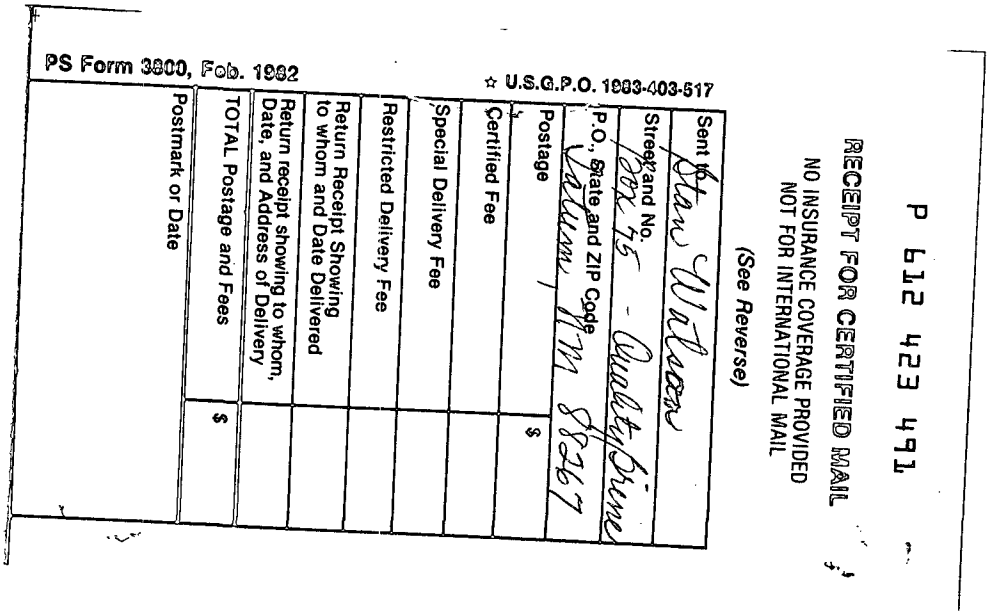
Paige Grant Morgan

Paige Grant Morgan
Water Resource Specialist
Ground Water Section

PGM:jba

cc: John Guinn, EID District IV, Roswell

mss



Quality: 398-3490

1/15/85: Called to discuss latest submittal and particularly the analysis of brine-contaminated water again, they were not in. (Spoke with the Watsons' dog Doris (mom)

Call 8:00 a.m tomorrow - better chance of catching them first thing in the morning.

1/16/85: Spoke with Stan Watson:
(1) Explained what was meant by a "contingency plan" and told him it needed to be included. He agreed to send one in.

(2) Agreed to quarterly monitoring of TDS in two nearest wells and injection water. [Do we want chloride, too? Could get a complete suite run when TDS shows a rise -] - Need to be sure we get reports of brine sales, too, either annual or quarterly as they prefer.

(3) Explained our pressure test procedure as it stands at present. He

said that sounded great to him. I said we'd like to run one of Quality Brine the first week in February, and I'd contact him later with details. He said he'd look into where he could get a pressure recorder, etc.

(4) Discussed requirement to fill casing w/ cement upon abandonment. He agreed to leave cavity full of brine and fill casing from bottom to top with cement.

(5) On analysis showing high Na + Cl: it is from their source well, labelled "#6, Sandy Watson" on the plat of adjacent water wells, p. 2 of "Report of Quality Brine. They will submit a second analysis for this well. They suspect that it was incorrectly analyzed.
The plat is oriented with "north" on right side of page and it is not a Section plat. Need to note distance + direction from brine well to source well on SITE VISIT.

Incidental remark: Their injection pressure may go as high as 340 psi.

REPORT II QUALITY BRINE

Box 75

Tatum, NM 88267

November 20, 1984

Page Grant
EID Santa Fe, NM

Second submittal under Quality Brine Assurance of Discontinuances

Dear Miss Grant,

The following report is in resbonce to your July 18 comments and etc.

1.(a) i. The surface casing is 24#, 8 5/8" csg, J55 grade. The 5½" csg. is N80 grade.

(a) ii. (diagram page 4 of the "Report of Qiality Brine") The translation on the tubing is 2 7/8" EUE 8 rd. threads N80 grade tubing. We ran 94 joints of pipe with two(2) 2'x 2 7/8" subs. And a Bull Plug with four(4) slots or openings at the bottom of the tubing.

(b) i. ii. Our emergency catch pit is lined with betonite that has been tilled into the soil. There hasn't been any fluid other than rain water in it since the construction of Quality Brine.There are no automatic controls on this facility. We hand check this equipment as many as five times during the production of Brine Water. (This is our insurance aginst any accidental leaks, and to make sure all oilers and other esential accessories are working properly.) Once we reach an adaquate amount of Brine in our storage tanks we check the facility each morning on the way to work and again on the way home. This eliminates the proglem of being "sold out" of Brine. And provides suppervision of about once every twelve hrs. We have provided water meters for every customer. The driver can count off every barrel until his truck is loaded. Should he ever over fill his trailer, the spill water wouldn't be in the catch pit for more than twelve hrs. We have our own trucks to haul any spills from the catch pit.

(b) iii. As per our "Report of Quality Brine" the ground water is protected by 8 5/8" surface pipe then approximatly 3" of cement from top to bottom of the N80 grade 5½" casing. Then inside the 5½" casing is approximatly 2½" of Fresh Water surrounding 2 7/8" N80 grade tubing. (All pipe & casing is installed new.)

iv. In case of any contamination we will contact the EID within 48 hrs.

I.A. The address below will best present our corraspondance in the matter of discharge plan.

Stan Watson Box 75 Tatum, NM 88267

II. A. 1. Our emergency pit dimensions ar as follows: 45' x 45' x 6' deep.

2. The pipe between the Brine well and storage tanks is 3" SDR-17 grade polyethlene and 120 ft. in length and buried 48" below the surface.

3. The past three months our sales were 26,133 bbls. total Brine Water.

II B. 4. Our normal injection pressure is 300# at surface. When our pressure reaches 350# at surface, we reverse the flow for 20 minutes to Fresh Water the tubing.

III. B. 1. As for the formation above and below the salt section, they are impermeable at:

163' to 231' -68- Blue Clay, Sandstone
231' to 945' -714- Red Bed
945' to 2250' -1305- Red Bed & ~~Shale~~ shells
2250' to 2290' -40- Red Bed & Anhydrite
2290' to 2912' -622- Salt & Anhdrite
2912' Hard Anhdrite -T.D.-

*Below 2912 Anhdrite, Gipsom, Dolomite, & Lime down to 4600' ~~Total~~ 688'

*References from: Well Log on Sinclair Oil & Gas W.H. Anderson Well#1 Sec. 17 T. 12 R. 36 Approx. 1 mile North of Brine Well. P.A. 1957

III. B. 4. Buckeye Gas 27' from water to surface.
Al Griffin 27' 6" from water to surface.

III. B. 5. Analasis included.

IV. A. 1. Included.

IV. A. 2. Included.

IV. B. 2. Our closure plan for the surface equip. at the Brine facility would only be to dispose of the salt water at the commercial SWD. Then move said equipment to where ever needed. Level and reseed facility site.

Enclosed in the rest of the report you will find our water analysis, A discription of the only well bore in the area. And domestic water well reports from the State Engineers office. Also water well logs from around the brine well.

Thank you for your time and consideration.

Sincerely,

Stan Watson

Quality Brine
Box 75
Tatum, NM 88267

BAKER OIL TREATING
A Baker Oil Tools Company

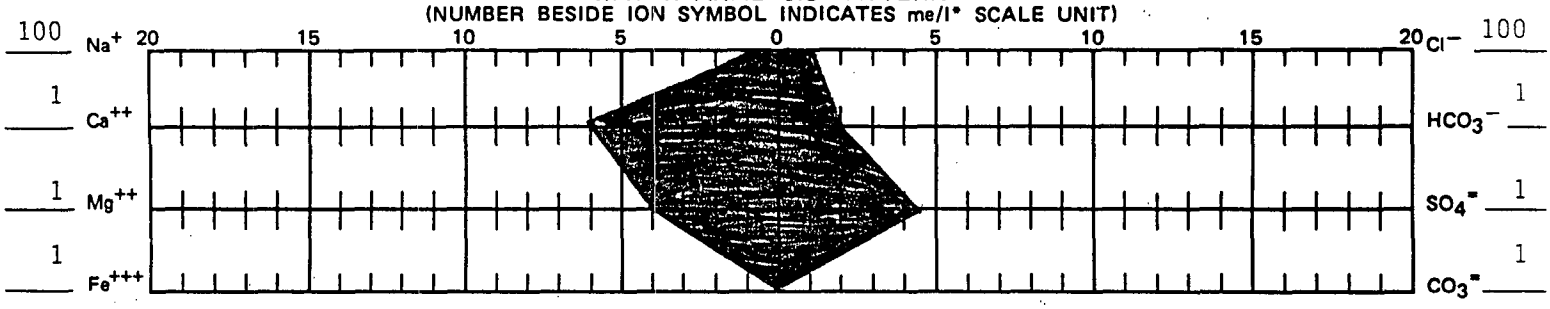
FRESH Injection WATER

RECEIVED
NOV 29 1984
GROUND WATER/HAZARDOUS WASTE BUREAU

WATER ANALYSIS REPORT

COMPANY					ANALYSIS NUMBER
QUALITY BRINE STATION					0626
COMPANY ADDRESS					DATE
BOX 75 TATUM, N.M.					11/15/84
FIELD			COUNTY OR PARISH		STATE
LEASE OR UNIT	WELL(S) NAME OR NO.		WATER SOURCE (FORMATION)		
DEPTH, FT.	BHT, °F	SAMPLE SOURCE	TEMP, °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY
		FRESH				
DATE SAMPLED	TYPE OF WATER					
11/15/84	☐ PRODUCED	☐ SUPPLY	☐ WATERFLOOD	☐ SALT WATER DISPOSAL		

WATER ANALYSIS PATTERN
(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	10	
Calcium, Ca^{++}	6	120
Magnesium, Mg^{++}	4	48.8
Iron (Total) Fe^{+++}	-0-	-0-
Barium, Ba^{++}	---	---
Sodium, Na^{+}(calc.)	109	2507
ANIONS		
Chloride, Cl^{-}	112.7	4000
Sulfate, $SO_4^{=}$	4.3	204
Carbonate, $CO_3^{=}$	-0-	-0-
Bicarbonate, HCO_3^{-}	2.0	122
Hydroxyl, OH^{-}	-0-	-0-
Sulfide, $S^{=}$	---	---

TOTAL SOLIDS (QUANTITATIVE) 7001.8

DISSOLVED GASES

Hydrogen Sulfide, H_2S	-0- mg/l*
Carbon Dioxide, CO_2	3.9 mg/l*
Oxygen, O_2	6.0 mg/l*

PHYSICAL PROPERTIES

pH	7.80
Specific Gravity	1.012
Total Dissolved Solids (calc.)	7001.8 mg/l*
Stability Index @ 20 °C	-0.06
@ ____ °C	
$CaSO_4$ Solubility @ 20 °C	36.0 me/l*
@ ____ °C	____ me/l*
Max. $CaSO_4$ Possible (calc.)	4.3 me/l*
Max. $CaSO_4$ Possible (calc.)	____ me/l*
Residual Hydrocarbons	____ ppm(Vol/Vol)

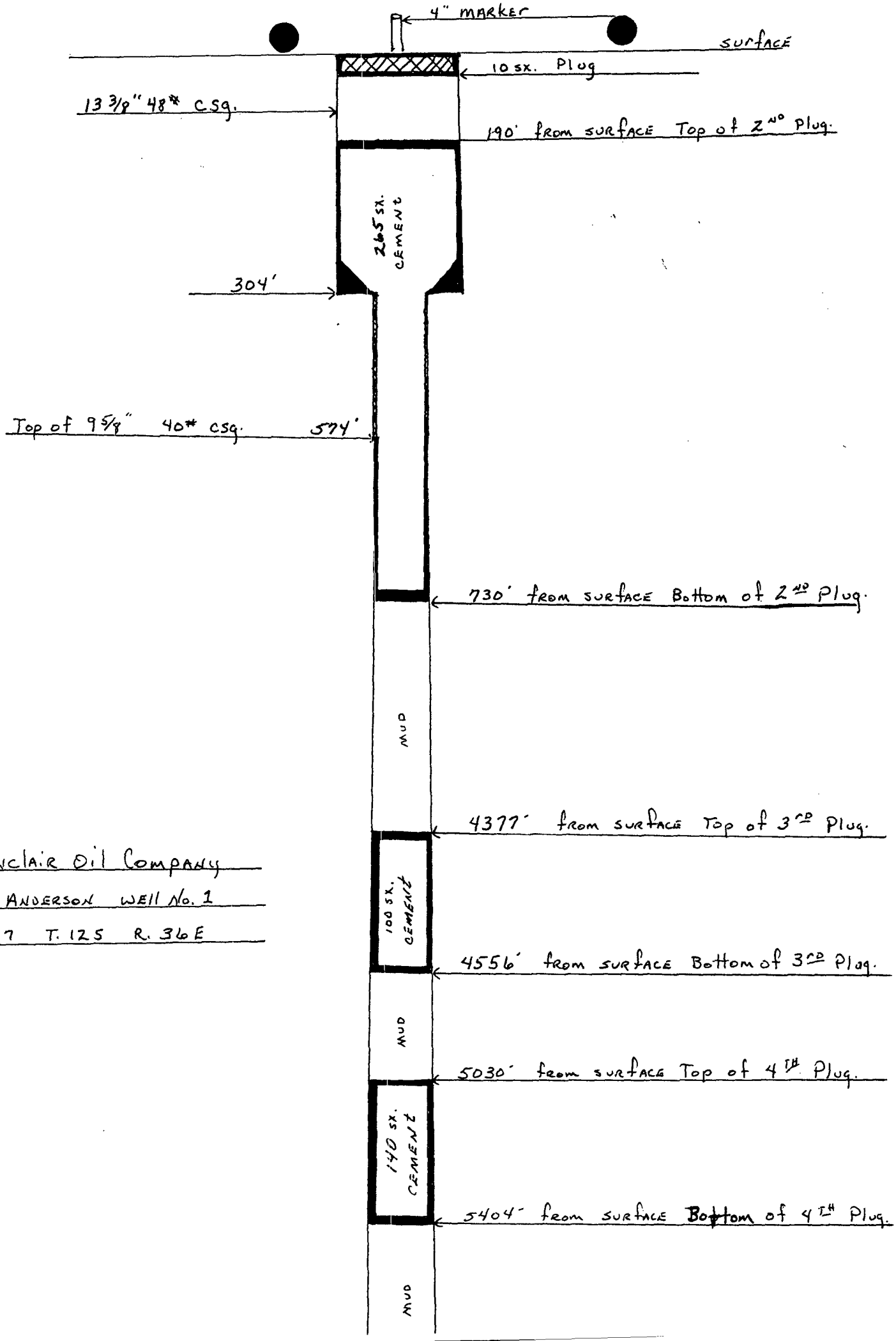
REMARKS AND RECOMMENDATIONS:

@ 20° C SLIGHTLY CORROSIVE TENDENCY IS INDICATED.

@ 20° C CALCIUM SULFATE SCALING IS UNLIKELY.

*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BAKER OIL TREATING REPRESENTATIVE	ADDRESS	TELEPHONE	
J. LEWIS		OFF:	RES:
ANALYZED BY:	DATE	DISTRIBUTION	
RITA BETTY	11/15/84		

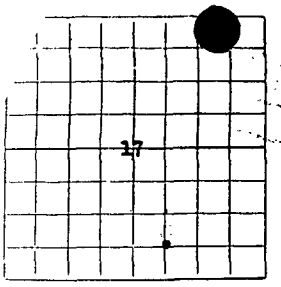


Sinclair Oil Company

W.H. ANDERSON WELL No. 1

S. 17 T. 12S R. 36E

Revised 7/1/58
(Form C-105)



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

Sinclair Oil & Gas Company (Company or Operator) W. H. Anderson Unit (Lease)

Well No. 1, in SW ¼ of SE ¼, of Sec. 17, T. 12S, R. 36E, NMPM.

Wildcat Pool, Lea County.

Well is 1980' feet from East line and 660' feet from South line of Section 17. If State Land the Oil and Gas Lease No. is

Drilling Commenced 10:00 AM 5/8/, 19 56 Drilling was Completed 10/26/, 19 56

Name of Drilling Contractor Warren Bradshaw Drilling Company

Address Tulsa, Oklahoma

Elevation above sea level at Top of Tubing Head 4000' The information given is to be kept confidential until , 19

OIL SANDS OR ZONES

No. 1, from None to No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
13-3/8"	48#	N	304'				Surface
9-5/8"	36 & 40	N	4498'	Float	574'		Intermediate

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15"	13-3/8"	304'	350	Halliburton		
12-1/4"	9-5/8"	4498'	1800	Halliburton		

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

DRY HOLE - PLUGGED AND ABANDONED

Result of Production Stimulation

Orig & 4cc: OCC

cc: FHR, HFD, File

Depth Cleaned Out

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company, 520 East Broadway, Hobbs, New Mexico
(Address)

LEASE W.H. Anderson WELL NO. 1 UNIT O S 17 T 12S R 36E

DATE WORK PERFORMED As Shown POOL Wildcat

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [ ] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [x] Other Re-plugging Abandoned Well

Detailed account of work done, nature and quantity of materials used and results obtained.

2-10-57: Rigging up to drill cement plug and re-plug well.

2-11-57: Drilled cement out to 5500'. Re-plugging from 5500' to surface.

2-12-57: Set 140 sacks cement plug from 5030' to 5404'.

2-13-57: Ran drill pipe open ended and spotted 100 sack cement plug from 4377 to 4556I and spotted 265 sack cement plug from 190' to 730'. Set 4" "Regulation Marker" 4' above surface level in 10 sack cement in top of 13 3/8" OD casing.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name W.A. Gressett
Title _____
Date APR 3 1957

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name C.C. Grimes
Position District Supt.
Company Sinclair Oil & Gas Company

Orig. & 2cc:OCC
cc:FHR,HFD,File

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Sinclair Oil & Gas Company, 520 East Broadway, Hobbs, New Mexico
(Address)

LEASE W.H. Anderson Unit WELL NO. 1 UNIT O S 17 T 12S R 36E

DATE WORK PERFORMED 10-30-56 POOL Wildcat

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [X] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [ ] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

Total Depth - 13794'.
Filled hole with heavy mud. Spotted 50 sacks cement plug from 12222 to 12350'. Set 25 sack cement plug from 4460 to 4525'. Cut 9 5/8" OD casing off at 574' and spotted 15 sack cement plug from 565 to 585'. Set 15 sack cement plug from 295' to 315'. Set 15 sack cement plug in top of 13 3/8" OD casing and bottom of cellar with 4 "Regulation Marker" extending 4' above surface level.
Completed 5:00 PM 10-29-56.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name W.A. Gressett
Title Oil & Gas Inspector
Date

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name C.E. Smith
Position District Supt.
Company Sinclair Oil & Gas Company

Orig. & 2cc:OCC
cc:FHR,HFD,File

RECORD OF DRILL-STEM AND SPECIAL TEST

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from Surface feet to 13794' feet, and from ..... feet to ..... feet.

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet.

PRODUCTION

Put to Producing Plugged & Abandoned, 19.....

OIL WELL: The production during the first 24 hours was ..... barrels of liquid of which ..... % was was oil; ..... % was emulsion; ..... % water; and ..... % was sediment. A.P.I. Gravity .....

GAS WELL: The production during the first 24 hours was ..... M.C.F. plus ..... barrels of liquid Hydrocarbon. Shut in Pressure ..... lbs.

Length of Time Shut in .....

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy	2204	T. Devonian		T. Ojo Alamo	
T. Salt	2285	T. Silurian		T. Kirtland-Fruitland	
B. Salt	2925	T. Montoya		T. Farmington	
T. Yates	3030	T. Simpson		T. Pictured Cliffs	
T. 7 Rivers	3158	T. McKee		T. Menefee	
T. Queen	3785	T. Ellenburger		T. Point Lookout	
T. Grayburg		T. Gr. Wash		T. Mancos	
T. San Andres	4390	T. Granite		T. Dakota	
T. Glorieta	5877	T.		T. Morrison	
T. Drinkard		T.		T. Penn	
T. Tubbs	7298	T.		T.	
T. Abo	8057	T.		T.	
T. Penn	10070	T.		T.	
T. Miss	13478	T.		T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	155	155	Surface Sand				
155	218	63	Blue Clay				
218	925	707	Red Beds				
925	2290	1365	Red Beds & Shells				
2290	3185	895	Salt & Anhydrite				
3185	3815	630	Salt, Anhydrite, & Gypsum				
3815	4357	542	Anhydrite & Gypsum				
4357	4448	91	Anhydrite & Dolomite				
4448	4600	152	Lime and Anhydrite				
4600	7970	3370	Lime				
7970	8097	127	Lime and Shale				
8079	8173	76	Shale				
8173	8840	667	Lime and Shale				
8840	9680	840	Lime				
9680	9776	96	Lime and chert				
9776	10083	307	Lime				
10083	10121	38	Lime and shale				
10121	10169	48	Lime				
10169	10750	581	Lime and shale				
10750	10781	31	Lime and chert				
10781	12086	1305	Lime and shale				
12086	12446	360	Lime and shale				
12446	12519	73	Shale				
12519	12989	470	Shale and sand				
12989	13794	805	Lime and shale				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

C H Confer 11/13/56
(Date)

Company or Operator Sinclair Oil & Gas Company Address 520 E. Broadway, Hobbs, New Mexico

Name C. O. Confer Position or Title District Engineer

STATE ENGINEER WATER WELL RECORDS
LISTING BY WELL LOCATION-STATUS

COUNTY BASIN BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET		DATE
L 00118C	L 00118		6/18/42	LIC	IRR	12S 36E 32 121	12S 36E 32	9.80	29.40	24		3/64
* *	HOLT E D	L 00155		LIC	IRR	12S 36E 29 112						
L 00155	L 00155E		6/13/45	LIC	IRR	12S 36E 29 112	12S 36E 29	6.68	20.04	17		6/76
L 00155E	L 00155		9/05/47	LIC	IRR	12S 36E 29 112*	12S 36E 29					6/76
* *	GUYE J D	L 00473C		LIC	IRR	12S 36E 32 313						
L 00473C	L 00130		1/30/48	LIC	IRR	12S 36E 32 313	12S 36E 32	23.40	70.20	58		5/66
* *	REEVES JEAN M	L 00632		LIC	IRR	12S 36E 21 4314						
L 00632			5/19/48	LIC	IRR	12S 36E 21 4314	12S 36E 21	35.50	106.50	89		4/64
* *	VILLAGE OF TATUM	L 02821		LIC	MUN	12S 36E 20 444						
L 02821	L 02821S		12/28/48	LIC	MUN	12S 36E 20 444	12S 36E 29		96.00	80		8/79
* *	TATUM PUBLIC SCH	L 02821E		LIC	MUN	12S 36E 21 300						
L 02821E	L 02821		4/29/59	LIC	MUN	12S 36E 21 300	12S 36E 21		120.00	100		8/79
* *	TOWN OF TATUM	L 02821S		LIC	MUN	12S 36E 29 222						
L 02821S	L 02821		12/28/48	LIC	MUN	12S 36E 29 222	12S 36E 29					8/79
L 02821S2			7/22/65	LIC	MUN	12S 36E 28 123	12S 36E 29					8/79
L 02821S3			7/22/65	LIC	MUN	12S 36E 28 123	12S 36E 29					8/79
						STATUS TOTAL		105.98	533.94	444	*	12
L 00473C	L 00952		0/00/26	PBU	IRR	12S 36E 32 313*	12S 36E 32	7.66	22.98	19		7/76
L 00952	L 00473C		0/00/26	PBU	IRR	12S 36E 32 313*	12S 36E 32					7/76
* *	TATUM PUBLIC SCH	L 02821A		PBU	MUN	12S 36E 29 441						
L 02821A	L 02821		3/16/55	PBU	MUN	12S 36E 29 441	12S 36E 29		5.10	4		8/64
L 02821AS	L 02821		3/16/55	PBU	MUN	12S 36E 29 432	12S 36E 29					8/64
						STATUS TOTAL		7.66	28.08	23	*	4
* *	FOX A J	L 00015		PMT	NOT	12S 36E 18 330						
L 00015			11/27/31	PMT	NOT	12S 36E 18 330	12S 36E 18					3/64
* *	FOX L D	L 00016		PMT	NOT	12S 36E 18 443						
L 00016			12/28/31	PMT	NOT	12S 36E 18 443	12S 36E 18					3/64
L 00118	L 00155B		6/13/45	PMT	IRR	12S 36E 32 313*	12S 36E 32	11.95	35.85	30		6/79
L 00118	L 00155B		9/05/47	PMT	IRR	12S 36E 32 313*	12S 36E 32	9.05	27.15	23		6/79
* *	WHITE WILLIAM M	L 00155A		PMT	IRR	12S 36E 32 311						
L 00155A	L 00155		9/05/47	PMT	IRR	12S 36E 32 311	12S 36E 32	12.55	37.65	31		7/76
* *	GUYE J D	L 00155B		PMT	IRR	12S 36E 32 313						
L 00155B	L 00118		10/28/75	PMT	IRR	12S 36E 32 313*	12S 36E 32					6/79
* *	FULLERTON PAUL E	L 00198		PMT	NOT	12S 36E 28 144						
L 00198			6/10/46	PMT	NOT	12S 36E 28 144	12S 36E 28					3/64
* *	PAYTON O D	L 00252C		PMT	NOT	12S 36E 19 443						
L 00252C	L 00252		2/20/47	PMT	NOT	12S 36E 19 443	12S 36E 19					3/64
* *	BETENBOUGH T B	L 00890		PMT	NOT	12S 36E 19 330						
L 00890			2/28/49	PMT	NOT	12S 36E 19 330	12S 36E 19					5/64

Cl. 85ppm in 7/16/54

STATE ENGINEER WATER WELL RECORDS
LISTING BY WELL LOCATION-STATUS

BASIN COUNTY BASIN	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET		DATE
BASIC FILE												
06621	L		11/26/69	PMT	STK	12S 35E 16 230	12S 35E 16		3.00			7/71
						STATUS TOTAL			21.00		*	16
* *	TOWN OF TATUM	L 07266		XAP	XRC	12S 35E 14 330						12/79
07266		0/00/00		XAP	XRC	12S 35E 14 330	12S 35E 14		91.00	76		7/76
						STATUS TOTAL			91.00	76	*	1
						TOWNSHIP TOTALS		660.60	2,111.80	1,728	**	35
						CUMULATIVE TOTALS		5,710.81	18,128.67	15,948	*	490
00473C	L 00952		0/00/26	APP	FGP	12S 36E 32 313*	12S 36E 32		4.00	4		7/76
00473C	L 00952E		0/00/00	APP	IRR	12S 36E 32 313*	12S 36E 32	30.00	90.00	75		7/76
00952E	L 00473C		9/29/75	APP	IRR	12S 36E 32 313*	12S 36E 32					7/76
* *	MORGAN J I	L 01024		APP	NOT	12S 36E 29 000						
01024			0/00/00	APP	NOT	12S 36E 29 000	12S 36E 29					7/65
						STATUS TOTAL		30.00	94.00	79	*	4
* *	JOPLIN JOE	L 00005		DCL	IRR	12S 36E 28 212						
00005		2/00/31		DCL	IRR	12S 36E 28 212	12S 36E 28	2.00	6.00	5		3/64
* *	PATE JESSIE B	L 01008		DCL	IRR	12S 36E 20 311						
01008		0/00/30		DCL	IRR	12S 36E 20 311	12S 36E 20	20.00	60.00	50		5/64
* *	TATUM PUB SCHOOL	L 01161		DCL	DOM	12S 36E 29 422						
01161		9/00/12		DCL	DOM	12S 36E 29 422	12S 36E 29		3.00			5/64
* *	DAVIS ROY E	L 02032		DCL	IRR	12S 36E 28 234						
02032	L 02032A	0/00/28		DCL	IRR	12S 36E 28 234	12S 36E 28	21.58	64.74	54		
* *	SIMPSON JOHN	L 02032A		DCL	IRR	12S 36E 28 243						
02032A	L 02032	0/00/28		DCL	IRR	12S 36E 28 243	12S 36E 28	1.50	4.50	4		11/64
* *	HENINGTON JESSE T	L 02032AA		DCL	IRR	12S 36E 28 234						
02032AA	L 02032	0/00/28		DCL	IRR	12S 36E 28 234*	12S 36E 28	2.00	6.00	5		11/64
* *	SIMPSON JOHN	L 02032C		DCL	IRR	12S 36E 28 243						
02032C	L 02032A	0/00/28		DCL	IRR	12S 36E 28 243*	12S 36E 28	4.00	12.00	10		5/66
* *	HART SAM	L 02686		DCL	DOM	12S 36E 19 122						
02686		0/00/14		DCL	DOM	12S 36E 19 122	12S 36E 19		3.00			7/64
* *	TATUM PUBLIC SCHOO	L 02705		DCL	DOM	12S 36E 29 242						
02705		0/00/25		DCL	DOM	12S 36E 29 242	12S 36E 29		3.00			7/64
						STATUS TOTAL		51.08	162.24	128	*	9
* *	GUYE J D	L 00118		LIC	IRR	12S 36E 32 3131						
00118	L 00118A	6/18/42		LIC	IRR	12S 36E 32 3131	12S 36E 32	23.60	70.80	59		5/66
* *	BESS J T	L 00118B		LIC	IRR	12S 36E 16 4333						
00118B	L 00118	6/18/42		LIC	IRR	12S 36E 16 4333	12S 36E 16	7.00	21.00	17		3/64
* *	CORBITT LONNIE E	L 00118C		LIC	IRR	12S 36E 32 121						

LEA COUNTY BASIN

STATE ENGINEER WATER WELL RECORDS
LISTING BY WELL LOCATION-STATUS

DATE 7/09/80 PAGE NO. 27 SEC.

BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET	DATE
* * *	BETENBOUGH T B	L 00893		PMT	NOT	12S 36E 16 430					
L 00893			2/28/49	PMT	NOT	12S 36E 16 430	12S 36E 16				5/64
* * *	GUYE J D	L 00952		PMT	IRR	12S 36E 32 311					
* * *	GUYE J D	L 00952		PMT	COM	12S 36E 32 311					
* * *	WILLIAMS LILLIE	L 01001		PMT	DOM	12S 36E 29 240					
L 01001			5/10/50	PMT	DOM	12S 36E 29 240	12S 36E 29		3.00		5/64
* * *	WHISENANT L Z	L 01003		PMT	DOM	12S 36E 28 241					
L 01003			5/10/50	PMT	DOM	12S 36E 28 241	12S 36E 28		3.00		5/64
* * *	PRICE H D	L 01004		PMT	DOM	12S 36E 29 211					
L 01004			5/17/50	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		5/64
* * *	SUMMERS WYLMA A	L 01006		PMT	DOM	12S 36E 28 341					
L 01006			6/01/50	PMT	DOM	12S 36E 28 341	12S 36E 28		3.00		5/64
* * *	TEXAS COAL & OIL	L 01012		PMT	DTC	12S 36E 21 111					
L 01012			6/06/50	PMT	DTC	12S 36E 21 111	12S 36E 21		3.00		5/64
* * *	ROGERS H J	L 01022		PMT	DOM	12S 36E 30 120					
L 01022			8/02/50	PMT	DOM	12S 36E 30 120	12S 36E 30		3.00		5/64
* * *	TUTT F H	L 01023		PMT	DOM	12S 36E 21 343					
L 01023			8/07/50	PMT	DOM	12S 36E 21 343	12S 36E 21		3.00		5/64
* * *	ROBINSON WILLIE	L 01029		PMT	DOM	12S 36E 19 434					
L 01029			8/21/50	PMT	DOM	12S 36E 19 434	12S 36E 19		3.00		12/79
* * *	FISHER T J	L 01042		PMT	DOM	12S 36E 28 334					
L 01042			10/23/50	PMT	DOM	12S 36E 28 334	12S 36E 28		3.00		5/64
* * *	SHULTS J P	L 01043		PMT	DOM	12S 36E 29 211					
L 01043			10/24/50	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		5/64
* * *	ROGERS H W	L 01048		PMT	DOM	12S 36E 28 344					
L 01048			10/30/50	PMT	DOM	12S 36E 28 344	12S 36E 28		3.00		5/64
* * *	PEVELER J W	L 01050		PMT	NOT	12S 36E 28 234					
L 01050			11/06/50	PMT	NOT	12S 36E 28 234	12S 36E 28				5/64
* * *	RASSETT A F	L 01055		PMT	DOM	12S 36E 29 223					
L 01055			11/29/50	PMT	DOM	12S 36E 29 223	12S 36E 29		3.00		5/64
* * *	JANES W A	L 01093		PMT	NOT	12S 36E 20 443					
L 01093			4/02/51	PMT	NOT	12S 36E 20 443	12S 36E 20				5/64
* * *	CASTER FERREL D	L 01103		PMT	DOM	12S 36E 28 026					
L 01103			4/18/51	PMT	DOM	12S 36E 28 026	12S 36E 28		3.00		5/64
* * *	NICKELL CECIL	L 01127		PMT	DOM	12S 36E 28 121					
L 01127			5/16/51	PMT	DOM	12S 36E 28 121	12S 36E 28		3.00		5/64
* * *	MAULDIN CECIL E	L 01132		PMT	DOM	12S 36E 29 221					
L 01132			5/24/51	PMT	DOM	12S 36E 29 221	12S 36E 29		3.00		5/64
* * *	SON A E	L 01137		PMT	DOM	12S 36E 29 213					
L 01137			5/29/51	PMT	DOM	12S 36E 29 213	12S 36E 29		3.00		5/64
* * *	MORRISON CLYDE	L 01141		PMT	NOT	12S 36E 20 442					

LEA COUNTY BASIN — STATE ENGINEER WATER WELL RECORDS — LISTING BY WELL LOCATION-STATUS — DATE 7/09/80 — PAGE NO. 28

BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET	DATE
L 01141			6/11/51	PMT	NOT	12S 36E 20 442	12S 36E 20				5/64
* * *	COX O M	L 01153		PMT	DOM	12S 36E 29 443					
L 01153			6/27/51	PMT	DOM	12S 36E 29 443	12S 36E 29		3.00		5/64
* * *	COX O M	L 01154		PMT	DOM	12S 36E 29 212					
L 01154			6/27/51	PMT	DOM	12S 36E 29 212	12S 36E 29		3.00		5/64
* * *	HEFLIN W H	L 01157		PMT	DOM	12S 36E 29 036					
L 01157			7/02/51	PMT	DOM	12S 36E 29 036	12S 36E 29		3.00		5/64
* * *	HALL JAMES D	L 01174		PMT	DOM	12S 36E 28 134					
L 01174			7/25/51	PMT	DOM	12S 36E 28 134	12S 36E 28		3.00		5/64
* * *	EUBANKS WINNIE LEE	L 01177		PMT	DOM	12S 36E 21 333					
L 01177			8/01/51	PMT	DOM	12S 36E 21 333	12S 36E 21		3.00		5/64
* * *	RICHARDS PAUL E	L 01183		PMT	DOM	12S 36E 29 434					
L 01183			8/06/51	PMT	DOM	12S 36E 29 434	12S 36E 29		3.00		5/64
* * *	JAMES T J	L 01215		PMT	DOM	12S 36E 31 444					
L 01215			9/12/51	PMT	DOM	12S 36E 31 444	12S 36E 31		3.00		5/64
* * *	HARRIS DEMPSEY	L 01222		PMT	DOM	12S 36E 19 434					
L 01222			9/25/51	PMT	DOM	12S 36E 19 434	12S 36E 19		3.00		5/64
* * *	GOODWIN FRANK L	L 01239		PMT	DOM	12S 36E 21 333					
L 01239			10/15/51	PMT	DOM	12S 36E 21 333	12S 36E 21		3.00		5/64
* * *	JAMES JOY C	L 01240		PMT	DOM	12S 36E 29 241					
L 01240			10/15/51	PMT	DOM	12S 36E 29 241	12S 36E 29		3.00		5/64
* * *	SCRIVNER FRANCES	L 01298		PMT	DOM	12S 36E 27 311					
L 01298			11/13/51	PMT	DOM	12S 36E 27 311	12S 36E 27		3.00		5/64
* * *	PERMIAN MUD SER	L 01305		PMT	DOM	12S 36E 29 424					
L 01305			11/30/51	PMT	DOM	12S 36E 29 424	12S 36E 29		3.00		5/64
* * *	BILBREY WILLIAM E	L 01316		PMT	DOM	12S 36E 32 222					
L 01316			12/31/51	PMT	DOM	12S 36E 32 222	12S 36E 32		3.00		5/64
* * *	TAYLOR E P	L 01348		PMT	DOM	12S 36E 28 333					
L 01348			2/04/52	PMT	DOM	12S 36E 28 333	12S 36E 28		3.00		5/64
* * *	ESCOLA TRAVIS	L 01349		PMT	DOM	12S 36E 21 333					
L 01349			2/04/52	PMT	DOM	12S 36E 21 333	12S 36E 21		3.00		5/64
* * *	CARTMILL J H	L 01357		PMT	DOM	12S 36E 29 211					
L 01357			2/14/52	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		5/64
* * *	SACRA BROTHERS	L 01406		PMT	DOM	12S 36E 28 331					
L 01406			3/24/52	PMT	DOM	12S 36E 28 331	12S 36E 28		3.00		5/64
* * *	DENTON FRANK	L 01407		PMT	DOM	12S 36E 21 343					
L 01407			3/25/52	PMT	DOM	12S 36E 21 343	12S 36E 21		3.00		5/64
* * *	BETENBOUGH T	L 01425		PMT	DOM	12S 36E 28 223					
L 01425			4/21/52	PMT	DOM	12S 36E 28 223	12S 36E 28		3.00		5/64
* * *	GARNER E E	L 01426		PMT	DOM	12S 36E 28 332					
L 01426			4/21/52	PMT	DOM	12S 36E 28 332	12S 36E 28		3.00		5/64

LEA COUNTY BASIN

BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET	DATE
* * *	MCNEELY MAYBELLE	L	01428	PMT	DOM	12S 36E 29 211					
L 01428			4/21/52	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		5/64
* * *	PREUITT DAN	L	01431	PMT	DOM	12S 36E 29 432					
L 01431			4/21/52	PMT	DOM	12S 36E 29 432	12S 36E 29		3.00		5/64
* * *	COOPER NORMAN C	L	01445	PMT	DOM	12S 36E 28 311					
L 01445			5/20/52	PMT	DOM	12S 36E 28 311	12S 36E 28		3.00		5/64
* * *	SANDERS W B	L	01456	PMT	DOM	12S 36E 29 008					
L 01456			6/04/52	PMT	DOM	12S 36E 29 008	12S 36E 29		3.00		6/64
* * *	BROWN JACK	L	01459	PMT	DOM	12S 36E 29 212					
L 01459			6/10/52	PMT	DOM	12S 36E 29 212	12S 36E 29		3.00		6/64
* * *	BURNEY BRUCE	L	01460	PMT	DOM	12S 36E 29 211					
L 01460			6/10/52	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		6/64
* * *	FLEMING W A	L	01461	PMT	DOM	12S 36E 28 343					
L 01461			6/10/52	PMT	DOM	12S 36E 28 343	12S 36E 28		3.00		6/64
* * *	MAGNOLIA PETRO CO	L	01467	PMT	DOM	12S 36E 20 242					
L 01467			6/16/52	PMT	DOM	12S 36E 20 242	12S 36E 20		3.00		6/64
* * *	HIGHT W S	L	01476	PMT	DOM	12S 36E 28 142					
L 01476			7/10/52	PMT	DOM	12S 36E 28 142	12S 36E 28		3.00		6/64
* * *	HALL H B	L	01479	PMT	DOM	12S 36E 19 434					
L 01479			7/11/52	PMT	DOM	12S 36E 19 434	12S 36E 19		3.00		6/64
* * *	HURST CHARLES W	L	01480	PMT	DOM	12S 36E 28 143					
L 01480			7/11/52	PMT	DOM	12S 36E 28 143	12S 36E 28		3.00		6/64
* * *	BURGAMY ESTES	L	01485	PMT	DOM	12S 36E 32 442					
L 01485			7/14/52	PMT	DOM	12S 36E 32 442	12S 36E 32		3.00		6/64
* * *	GAINER MINNIE	L	01486	PMT	DOM	12S 36E 21 333					
L 01486			7/14/52	PMT	DOM	12S 36E 21 333	12S 36E 21		3.00		6/64
* * *	SKELTON BILL	L	01495	PMT	DOM	12S 36E 29 211					
L 01495			7/24/52	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		6/64
* * *	MCALESTER B B	L	01498	PMT	DOM	12S 36E 28 134					
L 01498			7/30/52	PMT	DOM	12S 36E 28 134	12S 36E 28		3.00		6/64
* * *	MARKHAM BILL J	L	01504	PMT	DOM	12S 36E 20 340					
L 01504			8/04/52	PMT	DOM	12S 36E 20 340	12S 36E 20		3.00		6/64
* * *	WEBSTER L J	L	01506	PMT	DOM	12S 36E 29 244					
L 01506			8/04/52	PMT	DOM	12S 36E 29 244	12S 36E 29		3.00		6/64
* * *	TATUM PUB SCHOOL	L	01511	PMT	DOM	12S 36E 29 223					
L 01511			8/11/52	PMT	DOM	12S 36E 29 223	12S 36E 29		3.00		6/64
* * *	HURST E L	L	01516	PMT	DOM	12S 36E 29 212					
L 01516			8/18/52	PMT	DOM	12S 36E 29 212	12S 36E 29		3.00		6/64
* * *	BLAIR ROBERT A	L	01523	PMT	DOM	12S 36E 28 343					
L 01523			8/26/52	PMT	DOM	12S 36E 28 343	12S 36E 28		3.00		6/64
* * *	SWEAT GEORGE G	L	01574	PMT	DOM	12S 36E 28 133					

STATE ENGINEER WATER WELL RECORDS
LISTING BY WELL LOCATION-STATUS

LEA COUNTY BASIN

DATE 7/09/80 PAGE NO. 30

BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET	DATE
L 01574			9/19/52	PMT	DOM	12S 36E 28 133	12S 36E 28		3.00		6/64
* * *	NICHOLS R V		L 01576	PMT	DOM	12S 36E 29 211					
L 01576			9/23/52	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		6/64
* * *	WYCKOFF FRANK		L 01580	PMT	DOM	12S 36E 28 111					
L 01580			10/02/52	PMT	DOM	12S 36E 28 111	12S 36E 28		3.00		6/64
* * *	FLOYD GEORGE L		L 01590	PMT	DOM	12S 36E 29 421					
L 01590			10/14/52	PMT	DOM	12S 36E 29 421	12S 36E 29		3.00		6/64
* * *	HARDIN-HOUSTON INC		L 01591	PMT	DTC	12S 36E 29 400					
L 01591			10/15/52	PMT	DTC	12S 36E 29 400	12S 36E 29		3.00		7/65
* * *	PETROLEUM TOOL CO		L 01594	PMT	DOM	12S 36E 20 334					
L 01594			10/15/52	PMT	DOM	12S 36E 20 334	12S 36E 20		3.00		6/64
* * *	DEVAULT OTTIS		L 01596	PMT	DOM	12S 36E 21 433					
L 01596			10/21/52	PMT	DOM	12S 36E 21 433	12S 36E 21		3.00		6/64
* * *	HARDIN HOUSTON INC		L 01599	PMT	DOM	12S 36E 28 002					
L 01599			10/21/52	PMT	DOM	12S 36E 28 002	12S 36E 28		3.00		6/64
* * *	WRIGHT H F		L 01605	PMT	DOM	12S 36E 28 332					
L 01605			10/21/52	PMT	DOM	12S 36E 28 332	12S 36E 28		3.00		6/64
* * *	FISHER JAMES H		L 01641	PMT	DOM	12S 36E 28 343					
L 01641			11/03/52	PMT	DOM	12S 36E 28 343	12S 36E 28		3.00		6/64
* * *	ALLEN E A		L 01659	PMT	DOM	12S 36E 28 343					
L 01659			11/05/52	PMT	DOM	12S 36E 28 343	12S 36E 28		3.00		6/64
* * *	JONES TURCK CO		L 01674	PMT	DOM	12S 36E 20 340					
L 01674			11/28/52	PMT	DOM	12S 36E 20 340	12S 36E 20		3.00		6/64
* * *	CONTINENTAL SUPPLY		L 01678	PMT	DOM	12S 36E 29 122					
L 01678			12/08/52	PMT	DOM	12S 36E 29 122	12S 36E 29		3.00		6/64
* * *	GANDY B G & M C		L 01688	PMT	DOM	12S 36E 20 333					
L 01688			12/22/52	PMT	DOM	12S 36E 20 333	12S 36E 20		3.00		6/64
* * *	GANDY B G		L 01689	PMT	DOM	12S 36E 29 243					
L 01689			12/22/52	PMT	DOM	12S 36E 29 243	12S 36E 29		3.00		6/64
* * *	BURNEY J A		L 01812	PMT	DOM	12S 36E 28 342					
L 01812			1/20/53	PMT	DOM	12S 36E 28 342	12S 36E 28		3.00		6/64
* * *	WILLIAMS CALEN		L 01829	PMT	DOM	12S 36E 29 213					
L 01829			1/14/53	PMT	DOM	12S 36E 29 213	12S 36E 29		3.00		6/64
* * *	HAWLEY FRED H		L 01864	PMT	DOM	12S 36E 29 241					
L 01864			1/20/53	PMT	DOM	12S 36E 29 241	12S 36E 29		3.00		6/64
* * *	HOWARD BEN L		L 01916	PMT	DOM	12S 36E 28 143					
L 01916			1/23/53	PMT	DOM	12S 36E 28 143	12S 36E 28		3.00		7/64
* * *	BRITT EDGAR		L 01974	PMT	DOM	12S 36E 28 133					
L 01974			2/10/53	PMT	DOM	12S 36E 28 133	12S 36E 28		3.00		7/64
* * *	WHITLEY J B		L 02001	PMT	DOM	12S 36E 28 211					
L 02001			2/24/53	PMT	DOM	12S 36E 28 211	12S 36E 28		3.00		7/64

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BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET	DATE
* * *	GROSS L E	L	02013	PMT	DOM	12S 36E 21 311					
L 02013			2/25/53	PMT	DOM	12S 36E 21 311	12S 36E 21		3.00		7/64
* * *	WARD L W	L	02028	PMT	DOM	12S 36E 28 133					
L 02028			3/02/53	PMT	DOM	12S 36E 28 133	12S 36E 28		3.00		7/64
* * *	HALLIBURTON OIL	L	02049	PMT	DOM	12S 36E 20 333					
L 02049			2/09/53	PMT	DOM	12S 36E 20 333	12S 36E 20		3.00		7/64
* * *	HAMLIN GEORGE H	L	02054	PMT	DOM	12S 36E 21 313					
L 02054			3/11/53	PMT	DOM	12S 36E 21 313	12S 36E 21		3.00		7/64
* * *	HUMBLE OIL	L	02099	PMT	DOM	12S 36E 29 421					
L 02099			3/23/53	PMT	DOM	12S 36E 29 421	12S 36E 29		3.00		7/64
* * *	COLLINS L W	L	02105	PMT	DOM	12S 36E 28 334					
L 02105			3/25/53	PMT	DOM	12S 36E 28 334	12S 36E 28		3.00		7/64
* * *	HOWARD C ROY	L	02115	PMT	DOM	12S 36E 29 214					
L 02115			3/31/53	PMT	DOM	12S 36E 29 214	12S 36E 29		3.00		7/64
* * *	FERGUSON TRUCKING	L	02190	PMT	DOM	12S 36E 20 233					
L 02190			9/28/53	PMT	DOM	12S 36E 20 233	12S 36E 20		3.00		7/64
* * *	WHITMIRE A H	L	02193	PMT	DOM	12S 36E 28 113					
L 02193			5/06/53	PMT	DOM	12S 36E 28 113	12S 36E 28		3.00		7/64
* * *	RHODES E W	L	02202	PMT	DOM	12S 36E 28 311					
L 02202			5/12/53	PMT	DOM	12S 36E 28 311	12S 36E 28		3.00		7/64
* * *	THOMAS CHARLIE B	L	02215	PMT	DOM	12S 36E 19 434					
L 02215			5/25/53	PMT	DOM	12S 36E 19 434	12S 36E 19		3.00		7/64
* * *	ARNHART J C	L	02216	PMT	DOM	12S 36E 29 211					
L 02216			5/28/53	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		7/64
* * *	MAURICE EARLY	L	02218	PMT	DOM	12S 36E 28 313					
L 02218			5/27/53	PMT	DOM	12S 36E 28 313	12S 36E 28		3.00		7/64
* * *	SHAW CALVIN	L	02226	PMT	DOM	12S 36E 19 432					
L 02226			6/03/53	PMT	DOM	12S 36E 19 432	12S 36E 19		3.00		12/79
* * *	VERNON OSCAR	L	02227	PMT	DOM	12S 36E 19 333					
L 02227			6/03/53	PMT	DOM	12S 36E 19 333	12S 36E 19		3.00		7/64
* * *	HART SAM	L	02245	PMT	DOM	12S 36E 18 344					
L 02245			6/16/53	PMT	DOM	12S 36E 18 344	12S 36E 19		3.00		12/79
* * *	FOX ADRIAN L	L	02340	PMT	DOM	12S 36E 18 122					
L 02340			9/10/53	PMT	DOM	12S 36E 18 122	12S 36E 18		3.00		7/64
* * *	JOINER S F	L	02369	PMT	DOM	12S 36E 28 344					
L 02369			9/29/53	PMT	DOM	12S 36E 28 344	12S 36E 28		3.00		7/64
* * *	FOX ADRAIN L	L	02442	PMT	NOT	12S 36E 18 100					
L 02442			1/05/54	PMT	NOT	12S 36E 18 100	12S 36E 18				7/64
* * *	HART SAM	L	02443	PMT	NOT	12S 36E 18 310					
L 02443			1/05/54	PMT	NOT	12S 36E 18 310	12S 36E 18				7/64
* * *	TURNER J P	L	02445	PMT	DOM	12S 36E 28 331					

BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET	DATE
L 02445			1/04/54	PMT	DOM	12S 36E 28 331	12S 36E 28		3.00		7/64
* * *	SELMAN C C	L 02510	3/29/54	PMT	DOM	12S 36E 29 422	12S 36E 29		3.00		7/64
L 02510											
* * *	TUBBS FENNER	L 02513	2/23/54	PMT	NOT	12S 36E 33 100	12S 36E 33				7/64
L 02513											
* * *	GULF OIL CORP	L 02554	5/14/54	PMT	DOM	12S 36E 28 323	14S 36E 28		3.00		7/64
L 02554											
* * *	VAUGHN FANETIA H	L 02610	8/10/54	PMT	DOM	12S 36E 20 333	12S 36E 20		3.00		7/64
L 02610											
* * *	KEELE BEN	L 02863	4/29/55	PMT	DOM	12S 36E 32 222	12S 36E 32		3.00		8/64
L 02863											
* * *	BARR L D	L 02880	5/31/55	PMT	DOM	12S 36E 28 124	12S 36E 28		3.00		8/64
L 02880											
* * *	N M STATE HIGHWAY	L 02931	7/18/55	PMT	DOM	12S 36E 22 333	12S 36E 22		3.00		8/64
L 02931											
* * *	MARLEY ARVIL E	L 02965	8/24/55	PMT	DOM	12S 36E 29 313	12S 36E 29		3.00		8/64
L 02965											
* * *	WARREN & BRADSHAW	L 03202	5/17/56	PMT	OWD	12S 36E 17 430	12S 36E 17				8/64
L 03202											
* * *	CAUDLE P D	L 03239	6/28/56	PMT	DOM	12S 36E 30 421	12S 36E 30		3.00		8/64
L 03239											
* * *	COOK J D	L 03358	11/26/56	PMT	DOM	12S 36E 19 343	12S 36E 19		3.00		8/64
L 03358											
* * *	COZZENS H B	L 03426	2/01/57	PMT	DOM	12S 36E 28 214	12S 36E 28		3.00		8/64
L 03426											
* * *	JONES NEIL E	L 03437	2/13/57	PMT	DOM	12S 36E 19 334	12S 36E 19		3.00		8/64
L 03437											
* * *	MAPLES TED	L 03455	3/20/57	PMT	DOM	12S 36E 19 334	12S 36E 19		3.00		8/64
L 03455											
* * *	HOLT E D	L 03572	6/25/57	PMT	DOM	12S 36E 29 113	12S 36E 29		3.00		9/64
L 03572											
* * *	ANDERSON W H	L 03682	9/18/57	PMT	DOM	12S 36E 20 242	12S 36E 20		3.00		9/64
L 03682											
* * *	WHIYLEY J B	L 03740	12/09/57	PMT	DOM	12S 36E 32 424	12S 36E 32		3.00		9/64
L 03740											
* * *	TATUM VILLAGE OF	L 03746	12/30/57	PMT	NOT	12S 36E 29 210	12S 36E 29				7/76
L 03746											
* * *	DICKINSON HEIRS	L 03818	3/24/58	PMT	DOM	12S 36E 12 224	12S 36E 12		3.00		9/64
L 03818											
* * *	DICKINSON HEIRS	L 03819	3/24/58	PMT	DOM	12S 36E 03 334	12S 36E 03		3.00		9/64
L 03819											

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BASIC FILE	REFERENCE FILE	SOURCE	PRIORITY	STATUS	USE	WELL LOCATION	LAND LOCATION	FILE ACRES	ACRE FEET	RESERVATION ACRE-FEET	DATE
* * *	NELSON LEWIS	L	03820	PMT	DOM	12S 36E 32 121					
L 03820			3/24/58	PMT	DOM	12S 36E 32 121	12S 36E 32		3.00		9/64
* * *	PEROT L H	L	03869	PMT	DOM	12S 36E 27 131					
L 03869			5/19/58	PMT	DOM	12S 36E 27 131	12S 36E 27		3.00		9/64
* * *	CARLTON W B	L	03927	PMT	DOM	12S 36E 19 344					
L 03927			7/16/58	PMT	DOM	12S 36E 19 344	12S 36E 19		3.00		12/79
* * *	KEELE BEN	L	04064	PMT	DOM	12S 36E 32 222					
L 04064			2/02/59	PMT	DOM	12S 36E 32 222	12S 36E 32		3.00		9/64
* * *	WHITLEY J B	L	04126	PMT	DOM	12S 36E 19 343					
L 04126			4/27/59	PMT	DOM	12S 36E 19 343	12S 36E 19		3.00		9/64
* * *	PEROT L H	L	04128	PMT	DOM	12S 36E 27 133					
L 04128			4/29/59	PMT	DOM	12S 36E 27 133	12S 36E 27		3.00		9/64
* * *	SMITH JOE J	L	04184	PMT	DOM	12S 36E 29 244					
L 04184			6/19/59	PMT	DOM	12S 36E 29 244	12S 36E 29		3.00		9/64
* * *	MATTHEWS J W	L	04222	PMT	DOM	12S 36E 29 212					
L 04222			8/03/59	PMT	DOM	12S 36E 29 212	12S 36E 29		3.00		9/64
* * *	TURNER J P	L	04372	PMT	DOM	12S 36E 32 212					
L 04372			1/14/60	PMT	DOM	12S 36E 32 212	12S 36E 32		3.00		10/64
* * *	FURLONG C E	L	04394	PMT	DOM	12S 36E 19 344					
L 04394			3/10/60	PMT	DOM	12S 36E 19 344	12S 36E 19		3.00		10/79
* * *	N M HIGHWAY COMM	L	04522	PMT	DOM	12S 36E 22 340					
L 04522			9/13/60	PMT	DOM	12S 36E 22 340	12S 36E 22		3.00		10/64
* * *	MARTIN C H	L	04852	PMT	DTC	12S 36E 19 434					
L 04852			3/29/62	PMT	DTC	12S 36E 19 434	12S 36E 19		3.00		12/79
* * *	VERNON OSCAR	L	04910	PMT	DOM	12S 36E 19 333					
L 04910			5/28/62	PMT	DOM	12S 36E 19 333	12S 36E 19		3.00		10/64
* * *	RATLIFF MRS M C	L	05059	PMT	DOM	12S 36E 28 341					
L 05059			2/26/63	PMT	DOM	12S 36E 28 341	12S 36E 28		3.00		10/64
* * *	TOWNSEND BARNEY	L	05088	PMT	DOM	12S 36E 28 144					
L 05088			3/23/63	PMT	DOM	12S 36E 28 144	12S 36E 28		3.00		10/64
* * *	STEARNS BEN J	L	05124	PMT	DOM	12S 36E 28 016					
L 05124			4/23/63	PMT	DOM	12S 36E 28 016	12S 36E 28		3.00		10/64
* * *	AYERS RAY C	L	05163	PMT	DOM	12S 36E 32 120					
L 05163			5/28/63	PMT	DOM	12S 36E 32 120	12S 36E 32		3.00		10/64
* * *	CHURCH ALLEN	L	05175	PMT	DOM	12S 36E 31 240					
L 05175			6/11/63	PMT	DOM	12S 36E 31 240	12S 36E 31		3.00		10/64
* * *	ADAMS DON A	L	05319	PMT	DOM	12S 36E 28 130					
L 05319			1/09/64	PMT	DOM	12S 36E 28 130	12S 36E 28		3.00		11/64
* * *	TOWN OF TATUM	L	05446	PMT	NOT	12S 36E 28 000					
L 05446			8/07/64	PMT	NOT	12S 36E 28 000	12S 36E 28				11/64
* * *	DAVIS C C	L	05597	PMT	DOM	12S 36E 20 441					

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L 05597			4/08/65	PMT	DOM	12S 36E 20 441	12S 36E 20		3.00		5/65
* * *	JONES H L	L 05669		PMT	DOM	12S 36E 19 430					
L 05669			6/14/65	PMT	DOM	12S 36E 19 430	12S 36E 19		3.00		7/65
* * *	SATTERFIELD IRA	L 05675		PMT	DOM	12S 36E 32 222					
L 05675			6/22/65	PMT	DOM	12S 36E 32 222	12S 36E 32		3.00		7/65
* * *	GUYE J D	L 05996		PMT	DOM	12S 36E 28 110					
L 05996			7/28/66	PMT	DOM	12S 36E 28 110	12S 36E 28		3.00		10/68
* * *	KELLY-COPPEDGE	L 06028		PMT	DOM	12S 36E 30 110					
L 06028			9/06/66	PMT	DOM	12S 36E 30 110	12S 36E 30		3.00		10/68
* * *	SMITH ZACK	L 06195		PMT	DOM	12S 36E 28 144					
L 06195			9/08/67	PMT	DOM	12S 36E 28 144	12S 36E 28		3.00		10/68
* * *	TRI-SERVICE DRG CO	L 06247		PMT	NOT	12S 36E 04 130					
L 06247	L 06250		12/19/67	PMT	NOT	12S 36E 04 130	12S 36E 04				10/68
* * *	TRI-SERVICE DRG CO	L 06250		PMT	OWD	12S 36E 04 130					
L 06250	L 06250X		12/19/67	PMT	OWD	12S 36E 04 130	12S 36E 04				10/68
L 06250X	L 06250		12/19/67	PMT	OWD	12S 36E 04 130	12S 36E 04				10/68
* * *	GRANATH PAT	L 06316		PMT	DOM	12S 36E 28 210					
L 06316			4/30/68	PMT	DOM	12S 36E 28 210	12S 36E 28		3.00		10/68
* * *	WHITLEY J B	L 06332		PMT	DOM	12S 36E 19 343					
L 06332			6/04/68	PMT	DOM	12S 36E 19 343	12S 36E 19		3.00		12/79
* * *	LEA CO WATER ASSOC	L 06406		PMT	NOT	12S 36E 23 144					
L 06406			11/27/68	PMT	NOT	12S 36E 23 144	12S 36E 23				7/76
* * *	CHURCH ALLEN G	L 06465		PMT	DOM	12S 36E 30 222					
L 06465			1/22/69	PMT	DOM	12S 36E 30 222	12S 36E 30		3.00		2/69
* * *	CAUDLE PERRY	L 06490		PMT	DOM	12S 36E 30 244					
L 06490			3/24/69	PMT	DOM	12S 36E 30 244	12S 36E 30		3.00		5/69
* * *	GENERAL PETRO INC	L 06515		PMT	DOM	12S 36E 21 131					
L 06515			4/28/69	PMT	DOM	12S 36E 21 131	12S 36E 21		3.00		5/69
* * *	MEDLIN L M	L 06576		PMT	STK	12S 36E 32 133					
L 06576	L		8/21/69	PMT	STK	12S 36E 32 133	12S 36E 32		3.00		7/71
* * *	JAMES T L	L 06581		PMT	DOM	12S 36E 31 444					
L 06581	L		8/27/69	PMT	DOM	12S 36E 31 444	12S 36E 31		3.00		7/71
* * *	BERRYHILL LEE	L 06659		PMT	DOM	12S 36E 21 310					
L 06659	L		3/19/70	PMT	DOM	12S 36E 21 310	12S 36E 21		3.00		7/71
* * *	ANDERSON ETHEL	L 06819		PMT	DOM	12S 36E 20 220					
L 06819			6/10/71	PMT	DOM	12S 36E 20 220	12S 36E 20		3.00		7/71
* * *	GUYE J D	L 06823		PMT	STK	12S 36E 32 312					
L 06823			6/22/71	PMT	STK	12S 36E 32 312	12S 36E 32		3.00		7/71
* * *	TATUM PUB SCHOOLS	L 06824		PMT	DOM	12S 36E 29 441					
L 06824			6/21/71	PMT	DOM	12S 36E 29 441	12S 36E 29		3.00		7/71
* * *	MADDOX SCOTTY D	L 06845		PMT	DOM	12S 36E 28 141					

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L 06845			8/13/71	PMT	DOM	12S 36E 28 141	12S 36E 28		3.00		6/72
* * *	NORMAN H E	L 06855		PMT	DOM	12S 36E 29 211					
L 06855			9/02/71	PMT	DOM	12S 36E 29 211	12S 36E 29		3.00		6/72
* * *	SHETON HOMER	L 06987		PMT	DOM	12S 36E 29 441					
L 06987			8/31/72	PMT	DOM	12S 36E 29 441	12S 36E 29		3.00		8/72
* * *	DICKINSON G	L 06998		PMT	DOM	12S 36E 07 44					
L 06998			9/29/72	PMT	DOM	12S 36E 07 440	12S 36E 07		3.00		9/72
* * *	SAWYER DESSIE	L 07095		PMT	DOM	12S 36E 30 1321					
L 07095			6/14/73	PMT	DOM	12S 36E 30 1321	12S 36E 30		3.00		
* * *	SAWYER DESSIE	L 07095S		PMT	DOM	12S 36E 30 2000					
L 07095S	L 07095		6/14/73	PMT	DOM	12S 36E 30 2000	12S 36E 30				
* * *	SAWYER DESSIE	L 07095S2		PMT	DOM	12S 36E 30 2000					
L 07095S2	L 07095		6/14/73	PMT	DOM	12S 36E 30 2000	12S 36E 30				
* * *	RIPPLE JOHNNY	L 07118		PMT	DOM	12S 36E 29 4440					
L 07118			9/04/73	PMT	DOM	12S 36E 29 4440	12S 36E 29		3.00		
* * *	BROWN BILLIE	L 07205		PMT	DOM	12S 36E 32 1120					
L 07205			4/09/74	PMT	DOM	12S 36E 32 1120	12S 36E 32		3.00		
* * *	ALLEN JIM	L 07206		PMT	DOM	12S 36E 21 4330					
L 07206			4/09/74	PMT	DOM	12S 36E 21 4330	12S 36E 21		3.00		
* * *	PIOR H T	L 07248		PMT	DOM	12S 36E 20 4412					
L 07248			0/00/00	PMT	DOM	12S 36E 20 4412	12S 36E 20		3.00		
* * *	WELCH O J	L 07281		PMT	DOM	12S 36E 20 4443					
L 07281			10/03/74	PMT	DOM	12S 36E 20 4443	12S 36E 20		3.00		
* * *	HUCKABY JAMES	L 07436		PMT	DOM	12S 36E 28 2220					
L 07436			10/07/75	PMT	DOM	12S 36E 28 2220	12S 36E 28		3.00		
* * *	WHITED CHARLES	L 07449		PMT	DOM	12S 36E 29 2142					
L 07449			11/05/75	PMT	DOM	12S 36E 29 2120	12S 36E 29		3.00		
* * *	CROSSLAND E H	L 07472		PMT	STK	12S 36E 19 4400					
L 07472			1/14/76	PMT	STK	12S 36E 19 4400	12S 36E 19		3.00		
* * *	GANDY M C	L 07507		PMT	DOM	12S 36E 12 1110					
L 07507			4/06/76	PMT	DOM	12S 36E 12 1110	12S 36E 12		3.00		
* * *	GANDY M C	L 07509		PMT	DOM	12S 36E 32 1110					
L 07509			4/08/76	PMT	DOM	12S 36E 32 1110	12S 36E 32		3.00		
* * *	ESTORIL PRODUCING	L 07738		PMT	OWD	12S 36E 04 110					8/77
L 07738			8/03/77	PMT	OWD	12S 36E 04 110	12S 36E 04				8/77
* * *	THORNE HOLLIS	L 07769		PMT	DOM	12S 36E 29 422					10/77
L 07769			10/05/77	PMT	DOM	12S 36E 29 422	12S 36E 29		3.00		10/77
* * *	GERBER JEROME J	L 07846		PMT	DOM	12S 36E 29 214					3/78
L 07846			3/01/78	PMT	DOM	12S 36E 29 214	12S 36E 29		3.00		3/78
* * *	HAMLIN GEORGE	L 07861		PMT	DOM	12S 36E 21 134					3/78
L 07861			3/22/78	PMT	DOM	12S 36E 21 134	12S 36E 21		3.00		3/78

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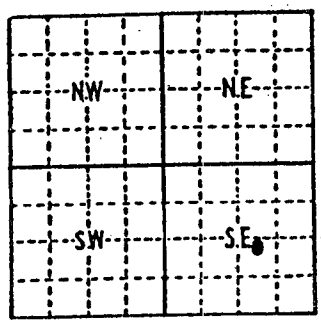
* * *	HENDERSON DOYLE	L	07894	PMT	DOM	12S 36E 24 434					5/78
L 07894			5/05/78	PMT	DOM	12S 36E 24 434	12S 36E 12		3.00		5/78
* * *	BOWMAN LEE SR	L	07900	PMT	DOM	12S 36E 32 443					5/78
L 07900			5/17/78	PMT	DOM	12S 36E 32 443	12S 36E 32		3.00		5/78
* * *	DYE O B	L	07901	PMT	DOM	12S 36E 18 330					5/78
L 07901			5/17/78	PMT	DOM	12S 36E 18 330	12S 36E 18		3.00		5/78
* * *	MULLINS DONALD	L	07902	PMT	DOM	12S 36E 21 332					5/78
L 07902			5/17/78	PMT	DOM	12S 36E 21 332	12S 36E 21		3.00		5/78
* * *	GANDY RANDALL	L	07909	PMT	DOM	12S 36E 21 310					5/78
L 07909			5/24/78	PMT	DOM	12S 36E 21 310	12S 36E 21		3.00		5/78
* * *	JONES LONNIE	L	07991	PMT	DOM	12S 36E 20 444					9/78
L 07991			9/13/78	PMT	DOM	12S 36E 20 444	12S 36E 20		3.00		9/78
* * *	COGBURN DAN	L	07994	PMT	DOM	12S 36E 19 002					9/78
L 07994			9/20/78	PMT	DOM	12S 36E 19 002	12S 36E 19		3.00		9/78
* * *	SELMAN ALVA	L	08000	PMT	DOM	12S 36E 32 310					10/78
L 08000			10/18/78	PMT	DOM	12S 36E 32 310	12S 36E 32		3.00		10/78
* * *	GLASSPOOLE JOHN	L	08004	PMT	DOM	12S 36E 29 222					10/78
L 08004			10/20/78	PMT	DOM	12S 36E 29 222	12S 36E 29		3.00		10/78
* * *	WHITE WILLIAM	L	08015	PMT	DOM	12S 36E 32 133					12/78
L 08015			12/14/78	PMT	DOM	12S 36E 32 133	12S 36E 32		3.00		12/78
* * *	SMARTT ED	L	08016	PMT	DOM	12S 36E 19 133					12/78
L 08016			12/15/78	PMT	DOM	12S 36E 19 133	12S 36E 19		3.00		12/78
* * *	FRIER PHILIP	L	08021	PMT	DOM	12S 36E 21 122					1/79
L 08021			1/17/79	PMT	DOM	12S 36E 21 122	12S 36E 21		3.00		1/79
* * *	WATSON WILLIAM	L	08074	PMT	DOM	12S 36E 28 130					12/79
L 08074			5/02/79	PMT	DOM	12S 36E 28 130	12S 36E 28		3.00		12/79
* * *	WATSON DANNY	L	08105	PMT	DOM	12S 36E 29 212					6/79
L 08105			6/27/79	PMT	DOM	12S 36E 29 212	12S 36E 29		3.00		6/79
* * *	SMITH W C	L	08106	PMT	DOM	12S 36E 29 244					6/79
L 08106			6/27/79	PMT	DOM	12S 36E 29 244	12S 36E 29		3.00		6/79
* * *	COURTNEY MELVIN	L	08119	PMT	DOM	12S 36E 29 443					7/79
L 08119			7/25/79	PMT	DOM	12S 36E 29 443	12S 36E 29		3.00		7/79
* * *	WHITED ORVILLE	L	08166	PMT	DOM	12S 36E 29 214					10/79
L 08166			10/10/79	PMT	DOM	12S 36E 29 214	12S 36E 29		3.00		10/79
						STATUS TOTAL		33.55	652.65	84	* 210
						TOWNSHIP TOTALS		228.27	1,470.91	758	** 239
						CUMULATIVE TOTALS		5,939.08	19,599.58	16,706	* 729
* * *	HEIDEL F L	L	00282	LIC	INP	12S 37E 23 131					
L 00282			4/12/47	LIC	IRR	12S 37E 23 1310	12S 37E 23	60.90	182.70	152	3/64
L 00282			4/12/47	LIC	INP	12S 37E 23 131*	12S 37E 23	45.90	45.90	38	3/64

WELL RECORD

File No. 1141

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, P. O. Box 1079, Santa Fe, New Mexico, or in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.



(Plat of 640 Acres)
Locate Well Accurately

Owner of well: Clyde Morrison

Street and Number: Box 682

Post Office: Tatum, New Mexico

Well was drilled under Permit No. _____ and

Block 11 Northwest Addition to Tatum, N. M.
is located in the NW ¼ SE ¼ SE ¼ of Section 20

Township 12 S, Range 36 E

Drilling Contractor: Masterson & Summers

Street and Number: Box 58

Post Office: Tatum, New Mexico

Drilling was commenced June 7, 19 51 Drilling was completed June 9, 19 51

Elevation at top of casing in feet above sea level _____

State whether well is shallow or artesian shallow

Total depth of well 60 feet. Water level upon completion of well 26 feet below land surface.

Sec. 2 PRINCIPAL WATER-BEARING STRATA

No. 1, from 32 to 60, Thickness in feet 28, Formation hard sand & water

No. 2, from _____ to _____, Thickness in feet _____, Formation _____

No. 3, from _____ to _____, Thickness in feet _____, Formation _____

No. 4, from _____ to _____, Thickness in feet _____, Formation _____

No. 5, from _____ to _____, Thickness in feet _____, Formation _____

Sec. 3 RECORD OF CASING

Diameter in Inches	Pounds per Foot	Threads per Inch	Name of Manufacturer	Feet of Casing	Type of Shoe	Perforated From	Perforated To	Purpose

Sec. 4 RECORD OF MUDDING AND CEMENTING

Diameter of Hole in Inches	Number of Sacks of Cement	Methods Used	Specific Gravity of Mud	Tons of Clay Used

FILED
JUN 13 1951
OIL CONSERVATION OFFICE
ARTESIAN WELL SUPERVISOR
ROSWELL, NEW MEXICO

Sec. 5 PLUGGING RECORD OF OLD WELL

Well is located in the ____ ¼ ____ ¼ ____ ¼ of Section ____ Township ____

Range ____ Name of plugging contractor ____

Street and Number ____ Post Office ____

Tons of clay used ____ Tons of roughage used ____ Type of roughage ____

Was plugging approved by Artesian Well Supervisor? ____

Cement plugs were placed as follows:

No. 1 was placed at ____ feet. Number of sacks of cement used ____

No. 2 was placed at ____ feet. Number of sacks of cement used ____

No. 3 was placed at ____ feet. Number of sacks of cement used ____

No. 4 was placed at ____ feet. Number of sacks of cement used ____

No. 5 was placed at ____ feet. Number of sacks of cement used ____

(over)

12.36.20 1141

Sec. 6 LOG OF WELL

FROM (Depth in Feet)	TO (Depth in Feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
surface	5	5	soil
5	10	5	white clay
10	12	2	dry gravel
12	32	20	hard caliche
32	60	28	hard sand & water

I, L. A. Summers, do solumnly swear that, to the best of my knowledge and belief, the foregoing information is a true and correct record of the well for which report is hereby made, insofar as can be determined from all available records.

SUBSCRIBED AND SWORN TO BEFORE ME this 11 day of June, A.D. 19 51

Anna Mae Hall
Notary Public

My Commission Expires March 5, 1953

Signed L. A. Summers

Position Driller

Street and Number Box 58

Post Office Tatum, New Mexico

(This form to be executed in triplicate)

STATE ENGINEER

WELL RECORD

Date of Receipt _____ Permit No. L-1504

Name of permittee, Bill Markham

Street or P. O. _____, City and State Tatum N.M.

1. Well location and description: The Shallow (shallow or artesian) well is located in W½ ¼, SE ¼, SW ¼ of Section 20, Township 12S, Range 36E; Elevation of top of casing above sea level, _____ feet; diameter of hole, 7 inches; total depth, 55 feet; depth to water upon completion, 30 feet; drilling was commenced 7/29, 19 52 and completed 7/29, 19 52; name of drilling contractor J.W.Matthews _____; Address, Tatum N.M.; Driller's License No. WD-116

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	48	55	7	Brown Quick Sand
No. 2				
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
7	Surface Nipple							

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: _____

_____

RECEIVED
JUL 29 1953
OFFICE
ARTESIAN WELL SUPERVISOR
ROSWELL, NEW MEXICO

L-1504 Plan

12.36.20.340

5. Log of Well:

Depth in Feet From	To	Thickness in feet	Description of Formation
0	2	2	Surface Soil
2	40	38	Caliche
38	48	10	Sandy Caliche (Water Show)
48	55	7	Brown Quick Sand (Water)

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.

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.

5. Log of Well:

Depth in feet From	Depth in feet To	Thickness in feet	Description of Formation
0	2	2	Top Soil
2	35	33	Caliche
35	58	23	Water Sand
58	62	4	Hard Sand
62	66	4	Pack 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 Busko
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.

NOV 5 1952
ARTESIAN WELL SUPERVISOR
OFFICE
ROSWELL, NEW MEXICO

(This form to be executed in triplicate)

WELL RECORD

Date of Receipt..... Permit No. L 1594

Name of permittee, Petroleum Tool Co.

Street or P.O., 407 West Second St, City and State Odessa Texas

Lots 3-4-5-6 Blk 12 West Addition Estes

1. Well location and description: The ..... (shallow or artesian) well is located in SE ¼, SW ¼, SW ¼ of Section 20, Township 12S, Range 31E; Elevation of top of casing above sea level, ... feet; diameter of hole, 7" inches; total depth, 66 feet; depth to water upon completion, 32 feet; drilling was commenced Nov 1, 1952, and completed Nov 1, 1952; name of drilling contractor Edward B Buck; Address, Box 306 Hobbs NM; Driller's License No. WW 111

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	35	58	23	Sand
No. 2				
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	Perforations From	Perforations To
4"	18	8			62	none	30	62

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: .....

FILED
NOV 5 1952
OFFICE
ARTESIAN WELL SUPERVISOR
ROSWELL, NEW MEXICO

1-1-94

J.P.

(This form to be executed in triplicate)

WELL RECORD

Date of Receipt July 27, 1955 Permit No. L-2616

Name of permittee, Fanetia H. Vaughn

Street or P. O., ... City and State Tatum, New Mexico

1. Well location and description: The shallow (shallow or artesian) well is located in SW ¼, SW ¼, SW ¼ of Section 20, Township 12 S, Range 36 E; Elevation of top of casing above sea level, ... feet; diameter of hole, 7 inches; total depth, 75 feet; depth to water upon completion, 27 feet; drilling was commenced May 15, 1955 and completed May 16, 1955; name of drilling contractor L. A. Summers; Address, Tatum, New Mexico; Driller's License No. 15

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	32	75	43	sand
No. 2				
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

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: .....

.....

Instructions

.....

FILED
JUL 27 1955
OFFICE
GROUND WATER SUPERVISOR
ROSWELL, NEW MEXICO

L-2616

5. Log of Well:

Depth in feet From	To	Thickness in feet	Description of Formation
0	3	3	soil
3	10	7	loose rock and caliche
10	20	10	caliche
20	32	12	sand, dry
32	75	43	sand and water

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.

[illegible]
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.

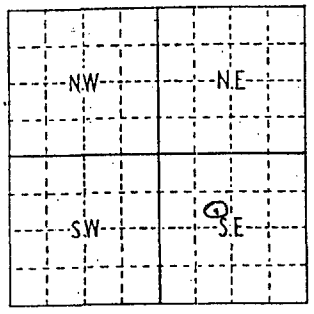
FIELD ENGR. LOG

WELL RECORD

File No. L-2049

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, (P.O. Box 1079) Santa Fe, New Mexico, unless the well is situated in the Roswell Artesian Basin, in which case it should be filed in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

Sec. 1



(Plat of 640 acres)
Locate Well Accurately

Owner of well Halliburton Oil Well Cementing Co.

Street and Number

Post Office Lovington, New Mexico

Well was drilled under Permit No. L-2049 and

is located in the SW ¼ SW ¼ SW ¼ of Section 20

Township 12S, Range 36E

Drilling Contractor Claude Tatum

Street and Number 524 W. Washington

Post Office Lovington, N. M.

Drilling was commenced March 5 1953 Drilling was completed March 6 1953

Elevation at top of casing in feet above sea level unknown

State whether well is shallow or artesian shallow

Total depth of well 60 feet.

Sec. 2 PRINCIPAL WATER-BEARING STRATA

No. 1, from 35 to 60, Thickness in feet 25, Formation water sand

No. 2, from ..... to ....., Thickness in feet ....., Formation .....

No. 3, from ..... to ....., Thickness in feet ....., Formation .....

No. 4, from ..... to ....., Thickness in feet ....., Formation .....

No. 5, from ..... to ....., Thickness in feet ....., Formation .....

Sec. 3 RECORD OF CASING

DIAMETER IN INCHES	POUNDS PER FOOT	THREADS PER INCH	NAME OF MANUFACTURER	FEET OF CASING	TYPE OF SHOE	PERFORATED FROM	PERFORATED TO	PURPOSE
none								

Sec. 4 RECORD OF MUDDING AND CEMENTING

DIAMETER OF HOLE IN INCHES	NUMBER OF SACKS OF CEMENT	METHODS USED	SPECIFIC GRAVITY OF MUD	TONS OF CLAY USED
6				

Sec. 5 PLUGGING RECORD OF OLD WELL

Well is located in the ..... ¼ ..... ¼ ..... ¼ of Section ....., Township .....,

Range ..... Name of plugging contractor .....

Street and Number ..... Post Office .....

Tons of clay used ..... Tons of roughage used ..... Type of roughage .....

..... Was plugging approved by Artesian Well Supervisor .....

Cement plugs were placed as follows:

No. 1 was placed at ..... feet Number of sacks of cement used .....

No. 2 was placed at ..... feet Number of sacks of cement used .....

No. 3 was placed at ..... feet Number of sacks of cement used .....

No. 4 was placed at ..... feet Number of sacks of cement used .....

No. 5 was placed at ..... feet Number of sacks of cement used .....

FILED
MAR 30 1953
OFFICE
ARTESIAN WELL SUPERVISOR
ROSWELL, NEW MEXICO

(OVER)

L-2049 Plugged - HR

12.36.2033

Sec. 6 LOG OF WELL

FROM (depth in feet)	TO (depth in feet)	THICKNESS IN FEET	CLASSIFICATION OF FORMATION
0	10	10	soil
10	35	25	calliche & rock
35	60	25	water sands

I, ... do solemnly swear that, to the best of my knowledge and belief, the foregoing information is a true and correct record of the well for which report is hereby made, insofar as can be determined from all available records.

SUBSCRIBED AND SWORN TO BEFORE ME this ...... Signed Claude Tatum

day of ...., A. D., 19..... Position ....

.... Notary Public Street and Number ....

My Commission Expires .... Post Office ....

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

(A) Owner of well Danny Watson Owner's Well No. _____

Street or Post Office Address Box 8, Tatum, N .M.

City and State _____

Well was drilled under Permit No. L-632 A and is located in the:

a. SW ¼ SW ¼ ____ ¼ ____ ¼ of Section 20 Township 12S Range 36 E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the West Add to Tatum, N.M.

c. Lot No. 1-8 of Block No. 3 of the _____

Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor B & A Water Well Service License No. WD 764

Address Box 864, Tatum, N. M/

Drilling Began 2/3/83 Completed 2/14/83 Type tools percusion Size of hole 10 in.

Elevation of land surface or _____ at well is 3995 ft. Total depth of well 162 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 18 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)
18	36	18	Sandy Caliche	
41	53	12	White Sand w/lightclay	
128	162	34	layered hard & soft sandstone	

formation generally topped by red bed clays?

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
8 5/8	24	welded	-0-	162'	163	none	18' 120'	38' 162'

he went deeper for larger supply?

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

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 February 23, 1983 Quad _____ FWL _____ FSL _____

File No. L-632-A Use COM. Location No. 12.36.20.33212

Section 6. LOG OF HOLE

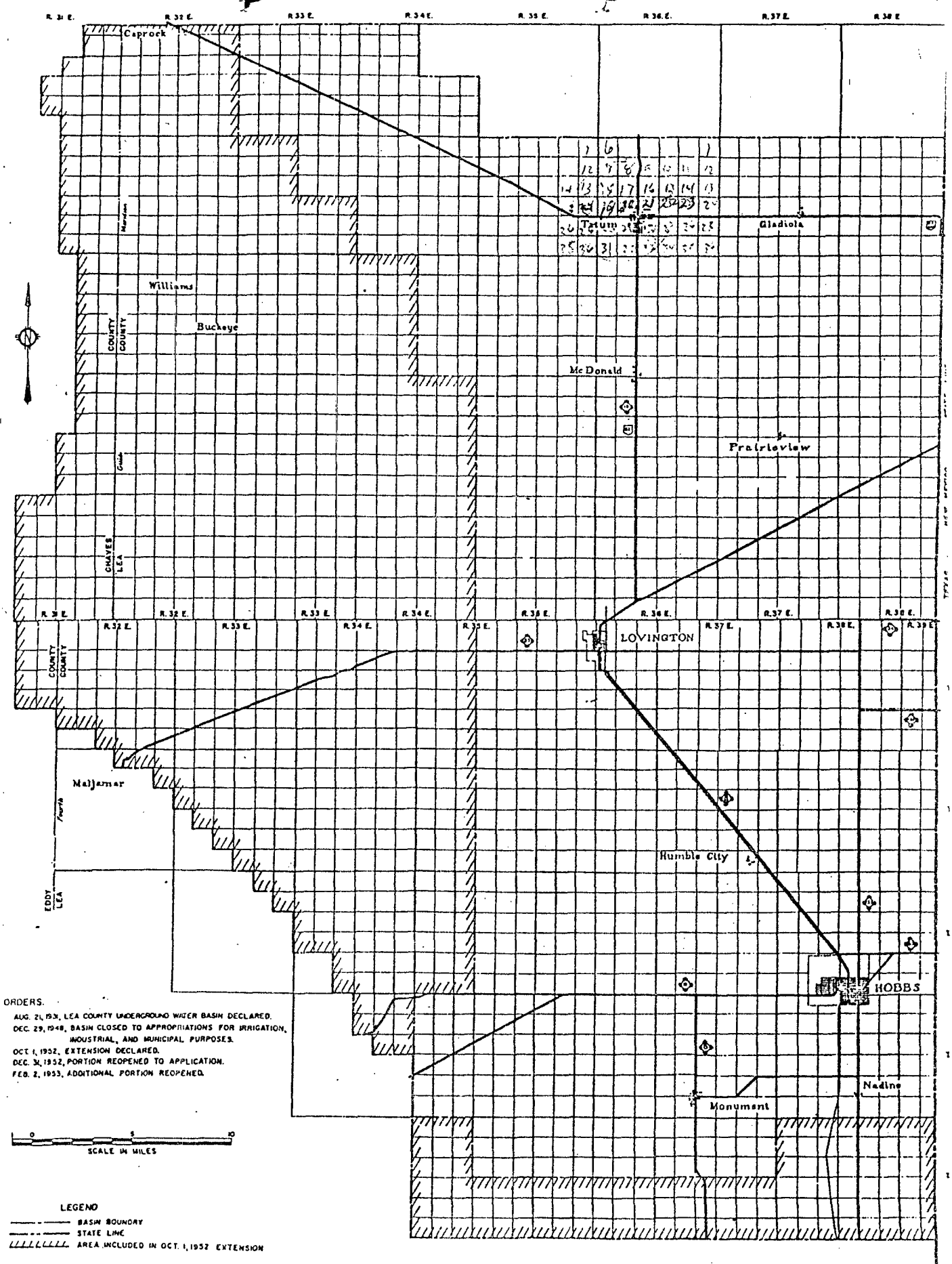
Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
-0-	3	3	top soil dark
3	18	15	caliche white
18	36	18	caliche with sand - W / B white
36	41	5	caliche
41	53	13	white sand w light clay, w/b redish tan
53	56	3	quartzite hard white
56	63	7	yellow clay
63	80	17	yellow clay w/ small gravel
80	105	25	Gray clay
105	110	5	yellow clay
110	111	1	sandstone hard
111	115	4	blue clay
115	116	1	sandstone hard
116	119	3	blue clay
119	120	1	sandstone hard
120	128	8	blue clay
128	162	34	layered hard & soft sandstone & grey & tank
162	T.D.		

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.

Al Lehman
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 4 need be completed.



MAP

SHOWING DECLARED AREA

LEA COUNTY UNDERGROUND WATER BASIN

STATE ENGINEER OFFICE

HEALTH ENVIRONMENT department

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

TONEY ANAYA
GOVERNOR

Joseph Goldberg
SECRETARY

Ted Guambana
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

July 18, 1984

Danny Watson
Quality Brine
P.O. Box 5967
Hobbs, NM 88241

RE: First Submittal Under Quality Brine's Assurance of Discontinuance

Dear Mr. Watson:

As we agreed by telephone on June 4, 1984, some of the materials in the Quality Brine file in the EID Ground Water Section as of June 15, 1984, have been accepted as the submittal due on that date under your Assurance of Discontinuance. Those materials are as follows:

1. Letter from Stan Watson to Joe Ramey of June 9, 1983, with the following inclusions:

   (a) Consent forms from five neighbors permitting use of their water wells for monitoring; a map showing location of these wells with respect to Quality Brine (a sixth water well owned by one of the partners in Quality Brine is also indicated); and a record of specific conductance in each well.

   (b) Three photographs of the facility and explanatory captions.

   (c) State Engineer's well record form for Quality Brine water well (includes driller's log).

2. Letter from Danny Watson to "Whom it may concern" (amended in handwriting, "To David G. Boyer, EID"), January 5, 1984, with the following attachments:

   (a) Proposed drilling and construction procedure for brine facility dated January 10, 1983, signed by Phil Withrow, President, B & E, Inc.

   (b) Copy of legal notice regarding change of place and purpose of use of Danny Watson's water right, to be used to supply brine facility.

   (c) OCD permit to drill brine well dated February 28, 1983.

   (d) OCD revised permit to drill brine well dated June 6, 1983.

   (e) OCD well location and acreage dedication plat form dated February 24, 1983.

   (f) OCD report form that the brine well had been drilled (no date).

(g) Plugging bond.

3. Paper entitled "Report of Quality Brine, Tatum, N.M." submitted to David G. Boyer and A. Paige Grant, Ground Water Section, EID, at a meeting with Quality Brine partners, January 6, 1984.

My comments on the above materials follow:

1. The materials due June 15th are the plans and specifications of the brine well and "a proposal outlining measures to be taken to correct any possible violations of the Water Quality Control Commission Regulations resulting from surface activities." These elements of a discharge plan are listed under Sections II.B.1., IV.A.7. through 11., and IV.B.2. in the attached outline.

   (a) On the well specs:

      i. Is the surface casing of the J or N grade?

      ii. In your notes on the tubing (diagram page 4 of the "Report of Quality Brine"), please translate the following: "7bg. 4 Jts. + 2 sub & B.P. w/4 slot."

      Apart from these remarks, your submittal of well specs appears to be adequate.

   (b) On the proposal to correct any possible violation of the regulations from surface activities:

      i. On your "emergency catch pit:" Is there any lining in this pit (caliche, bentonite, plastic, or other)? If unlined, how do you propose to prevent leakage from the pit into local ground water? (Pumping out the pit may be sufficient.) How often is it used (e.g., on a weekly basis, once every three months)? Is oil ever spilled in the pit?

      ii. How will spillage/leakage be prevented during truck loading or at transfer points within the facility?

      iii. Please submit contingency plans in the event of:

         a. A leak/spill from surface facilities;

         b. Loss of mechanical integrity of the injection well. How will ground water be protected from contamination or treated if contamination has occurred?

      iv. If there is a leak, spill or other unanticipated discharge of a significant amount of water contaminants on the surface or underground at your facility, will you commit to notifying the EID Ground Water Section within 48 hours?

2. The rest of the materials in your file pertain to requirements of later submittals under the terms of your Assurance. In my comments in the rest of these materials, I will follow the form of the enclosed outline.

I.A. Please name one of the partners of Quality Brine and the best address to reach him. If one of you is designated president, chairman or otherwise lead officer, that is the person who should be designated the "responsible party" for the purposes of the discharge plan.

II.A.1. What are the dimensions of your emergency pit?

2. Please give the length and type of pipe carrying brine from the well to the tanks. Are they buried or on the surface? If on the surface, how are they protected from being run over by trucks?

3. Please report your three-month totals of fresh water injected into the well and brine extracted or brine sold (brine extracted is preferable), on a quarterly basis.

II.B.4. At what pressure do you reverse the flow to blow down the well? What is your normal injection pressure?

III.A. Please submit soils information if your emergency pit is unlined.

III.B.1. Although the materials you have submitted cover your water well fairly thoroughly, more information is required for the brine well: in particular, permeability of the strata immediately above and below the salt beds, lithology and stratigraphy of the strata you drilled through down to the salt beds, and fracture pressure of the Salado. lacking

III.B.2., III.C.1. and 2. You may wish to consult with a geologist to prepare this portion of your discharge plan. — lacking - coming w/ next submittal?

III.B.4. Please provide the approximate total depth, depth to water, and surface elevation of wells no. 4 and no. 5 (ref. your plat of the wells you are using as monitoring wells, page 2 of your report). It would be very helpful also to have the driller's log for each well, obtainable from the State Engineer. On the basis of this information, I will request that you perform the water quality analysis specified in Section III.B.4. of the outline, for one of the wells.

III.B.5. Please have the specified analysis performed for your injection water. After this first submittal, you need only submit quarterly reports of total dissolved solids (TDS) and chloride from this well, unless these parameters indicate a change in water chemistry.

III.B.6. Please submit the analysis specified in this section of the outline. As above, once the major analysis is done, quarterly reports need only be for TDS and chloride.

Why? if Cl shows up in adjacent wells we'll know where it's from

IV.A.1. and 2. Please demonstrate that you have carried out the required search and will limit injection pressure if necessary, as specified in IV.A.2.

IV.A.3. Pressure testing will be required as part of the EID underground injection well inspection procedure, which is currently being developed.

IV.A.7. If the emergency pit is unlined and is used to hold brine or other water pollutants for more than 24 hours, some type of monitoring system for the pit will be required. To avoid this requirement, please specify that fluids which go to the emergency pit will be pumped out within 24 hours.

IV.A.8. Covered under III.B.4.

IV.A.10. Contingency plans are required as specified; and please add the notification commitment under IV.A.11.

IV.B.1.a. We recommend filling the cavity with saturated brine, installing a plug at the top of the salt as you have indicated and then running tubing to just above the plug and circulating cement from the bottom to the top of the well.

IV.B.1.b. Your plugging bond will be accepted for the period of this discharge plan approval. We may require that the amount of your bond be increased if you come in for renewal of your discharge plan at the end of five years.

IV.B.2. Please propose a closure plan for your surface facilities.

I hope that these remarks help to clarify what information is required to complete your discharge plan. Please let me know if I can explain these points further. I look forward to receiving your second submittal on or before November 30, 1984, as specified in your Assurance of Discontinuance.

Sincerely,

Paige Grant

Paige Grant
Water Resource Specialist
Ground Water Section

PG:egr

mse

STATE OF NEW MEXICO
ENVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 2:30	Date 6/4/84
Originating Party	Other Parties	
Danny Watson		

Subject: first submittal specified by Assurance

Discussion: They were under the impression that the paper entitled "Report of: Quality Brine, Jatum, N.M." which they submitted in person 1/6/84 to Dave Boyer and me, was going to fulfill the requirements of a discharge plan. I said that we'd needed some additional information beyond what was submitted in that paper, but that it looked to me like it might pretty well fulfill the requirements of A + B in their Schedule of Compliance, and that if they wanted me to, I would consider it their first submittal, review it and let them know what it lacked and what we needed more. He said that would be fine.

Conclusions or Agreements:

Distribution: file

Signed: Paige Grant

HEALTH ENVIRONMENT department

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

TONEY ANAYA
GOVERNOR

Joseph Goldberg
SECRETARY
Ted Guambana
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 11, 1984

Quality Brine
P.O. Box 5967
Hobbs, NM 88241

Dear Sirs:

Enclosed please find your copy of your Assurance of Discontinuance. We look forward to receiving the first submittal specified in your Schedule of Compliance, in June.

Thank you for your cooperation.

Sincerely,

Paige Grant

Paige Grant
Water Resource Specialist
Ground Water Section

PG:egr

Enclosure

msl

P 456 372 375
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Quality Brine	
Street and No. P.O. Box 5967	
P.O., State and ZIP Code Hobbs, NM	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, Feb. 1982

ASSURANCE OF DISCONTINUANCE

WHEREAS, on December 8, 1983, the Director of the New Mexico Environmental Improvement Division ("EID") requested Quality Brine ("QB") to submit a Discharge Plan pursuant to §§3-104 and 5-101.B.3 of the New Mexico Water Quality Control Commission ("Commission") regulation for its discharges from its brine facility and brine well located in Section 21, Township 12 South, Range 36 East, N.M.P.M., Lea County, New Mexico; and

WHEREAS, neither the regulations nor an extension to discharge without an approved Discharge Plan issued by the Director, nor any Court Order, allows QB to operate an injection well and associated surface facilities without an approved Discharge Plan, and

WHEREAS, recent water quality analysis of nearby and adjacent wells did not indicate any present contamination of drinking water sources due to operations at the site; and

WHEREAS, QB has committed to the Commission to proceed with all diligence to prepare and secure an approved Discharge Plan; and

WHEREAS, the Commission and QB deem it appropriate to enter into this Assurance of Discontinuance.

QB assures the Commission as follows:

1. ASSURANCE: All unapproved discharges at the QB Brine Facility shall be discontinued as set forth in Paragraph 2 of the Assurance of Discontinuance.

2. SCHEDULE OF COMPLIANCE: It is agreed that the Discharge Plan shall comply with the following schedule:

A. QB shall submit plans and specifications of the in situ extraction well to the EID — on or before June 15, 1984.

B. QB shall submit a proposal outlining measures to be taken to correct any possible violation of the Water Quality Control Commission Regulations resulting from surface activities — on or before June 15, 1984.

C. EID shall complete review of QB materials submitted by June 15, 1984, and EID shall provide comments to QB — on or before August 15, 1984.

D. QB shall submit the information listed in §5-102.B.1d and the information listed in §5-203.A of the Water Quality Control Commission Regulations to the EID — on or before November 30, 1984.

E. EID shall complete review of QB materials submitted under Paragraph 2.D herein and EID shall provide comments to QB — on or before January 30, 1985.

F. QB shall submit a complete Discharge Plan which shall address all applicable requirements of the Water Quality Control Commission Regulations, Parts 3 and 5 — on or before March 29, 1985.

G. EID shall complete review of Discharge Plan Application and EID shall provide comments to QB — on or before June 3, 1985.

H. QB shall submit responses to the EID comments — on or before August 1, 1985.

I. EID Director's approval or disapproval of Discharge Plan Application shall be promulgated — on or before October 1, 1985.

If a public hearing is scheduled by the EID Director pursuant to §3-108 of the Commission's Regulations, all deadlines in Paragraphs 2.G through 2.I shall be 45 days later.

3. MUTUAL COOPERATION: QB and the EID shall mutually cooperate in accomplishing on a timely basis the matters contemplated by this Assurance. In this respect, direct communication among QB representatives and EID personnel is encouraged.

4. MEETINGS: It is understood that QB and the EID shall meet on at least two occasions to discuss the progress during the initial 240 days of the Compliance Schedule. The first meeting shall take place on approximately the 90th day, and the second meeting on approximately the 150th day, as the parties may mutually and reasonably agree. EID shall endeavor to communicate any concerns which might necessitate additional information so as to allow QB sufficient time to respond.

5. EXTENSIONS FOR GOOD CAUSE: It is expressly agreed and understood by the parties hereto that events not reasonably foreseeable on the date of execution of this Assurance may occur which will make it impossible or extremely difficult for QB to comply in a timely fashion with those compliance dates set out in numbered Paragraph 2. In the event such unforeseen events do occur, QB may apply to the ~~Commission~~ Director of O.W. for an extension for an additional reasonable period of time to comply with such tasks in numbered Paragraph 2. The additional reasonable period of time, if granted, shall in all cases be governed by the relevant circumstances. RH

6. ENFORCEMENT: The Commission shall not undertake enforcement against QB for the continuation of current discharges occurring during the pendency of this Assurance without first

giving QB 15 days prior written notice by the Director that QB is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under §74-6-11 N.M.S.A. 1978.

Failure by QB to comply with any condition of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under §§74-6-5 and -10 N.M.S.A. 1978, as applicable.

Nothing in this Assurance of Discontinuance shall relieve QB from the responsibility for complying with all the provisions of the Water Quality Act, the regulations promulgated thereunder or any other provision of law except as otherwise specifically provided herein.

7. NO ADMISSION: The terms, execution and any conduct in accordance herewith shall not constitute an admission of any kind by QB relating to matters under the Water Quality Act, Commission regulations, or any other matters relating to health or environment.

Signed and acknowledged this 10 day of APRIL, 1984.

Danny Watson d/b/a Quality Brine

STATE OF NEW MEXICO)
: SS
COUNTY OF Santa Fe)

The foregoing instrument was acknowledged before me this 10th day of April, 1984, by Danny Watson, d/b/a Quality Brine.

My Commission Expires:
11/29/86

Notary Public

APPROVED:
WATER QUALITY CONTROL COMMISSION

By Richard Holland
for: Steven Asher, Chairman
Water Quality Control Commission

STATE OF NEW MEXICO)
: SS
COUNTY OF Santa Fe)

The foregoing instrument was acknowledged before me this 10th day of April, 1984, by Richard Holland ~~Steven Asher~~, Chairman of the Water Quality Control Commission, on behalf of the Water Quality Control Commission.

My Commission Expires:
11/29/86

Notary Public

NEW MEXICO HEALTH ENVIRONMENT department

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

TONEY ANAYA
GOVERNOR

Joseph Goldberg
SECRETARY

Ted Guambana
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

March 30, 1984

Mr. R.W. Gallini
Heidel, Samberson, Gallini,
Williams and Harrington
P.O. Drawer 1599
Lovington, NM 88260

Dear Mr. Gallini:

The enclosed copy of a memo is by way of informing you that your client, Quality Brine's Assurance of Discontinuance has been submitted to the Water Quality Control Commission for consideration at their meeting on April 10th.

Sincerely,

Paige Grant

Paige Grant
Hydrologist
Ground Water Section

PG:egr

Enclosure

cc: Quality Brine

mss

HEALTH ENVIRONMENT department

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

TONEY ANAYA
GOVERNOR

Joseph Goldberg
SECRETARY

Ted Guambana
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

MEMORANDUM

TO: Water Quality Control Commissioners

FROM: Paige Grant, Water Resource Specialist, EID Ground Water Section APG

SUBJ: Assurances of Discontinuance from three brine well owner/operators

DATE: March 27, 1984

Attached hereto are three proposed Assurances of Discontinuance relating to brine in situ extraction facilities. Please note that they are based on the same format (form enclosed) and are very similar to each other, with the principal differences being in names, locations, and dates in the schedule of compliance. The Quality Brine Assurance is to be reviewed as it stands. The Assurance of C.W. Trainer and of Ernie Hegwer are changed from the attached drafts, as noted below:

C.W. Trainer Assurance of Discontinuance: the third "Whereas" is changed to read as follows:

> WHEREAS, recent pressure tests of the brine well indicate good casing integrity, and all brine at the facility is discharged into lined pits, such that no contamination of drinking water sources is believed to have occurred due to operations at the C.W. Trainer facility; (and...)

Ernie Hegwer Assurance of Discontinuance: the third "Whereas" is changed to read as follows:

> WHEREAS, there are no nearby and adjacent water wells to supply the brine well, so that Mr. Hegwer is having to pipe city water in from Carlsbad, New Mexico; and pressure tests have been made to indicate good casing integrity in the well, such that no contamination of drinking water sources is believed to be occurring as a result of Mr. Hegwer's operation; (and...)

In addition, Mr. Hegwer plans to amend the language of numbered paragraph 5, the "Good Cause" clause, to the language in the enclosed "Assurance" form. Both Mr. Trainer and Mr. Hegwer will have final drafts of their Assurances of Discontinuance incorporating these changes when they appear before the Commission on April 10th.

PG:egr

Enclosures

LAW OFFICES
HEIDEL, SAMBERSON, GALLINI, WILLIAMS & HARRINGTON
311 NORTH FIRST STREET
POST OFFICE DRAWER 1599
LOVINGTON, NEW MEXICO 88260
(505) 396-5303

C. GENE SAMBERSON
R. W. GALLINI
JERRY L. WILLIAMS
DAVID L. HARRINGTON

F. L. HEIDEL
OF COUNSEL

March 15, 1984

Ms. Paige Grant
Hydrologist
Ground Water Section
Environmental Improvement Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968

Re: Assurance of Discontinuance of Quality Brine

Dear Ms. Grant:

We acknowledge receipt of your letter dated March 12, 1984, in connection with the above referenced matter.

Enclosed herewith please find an original and one copy of the Assurance of Discontinuance of Quality Brine for your review and for submission to the Water Quality Control Commission for their approval. The typographical and oversight errors were corrected, and we incorporated the new Paragraph 5 "Extensions for Good Cause", which you recommended that we include in the corrected Assurance of Discontinuance.

Please let us know if there is anything further that needs to be done by us in connection with the Assurance of Discontinuance of Quality Brine. Otherwise, we will see you on April 10, 1984, at the meeting of the Water Quality Control Commission in Santa Fe.

With best regards, I am

Very truly yours,

HEIDEL, SAMBERSON, GALLINI & WILLIAMS

R. W. Gallini

R. W. Gallini

RWG:ds

Enclosure

ASSURANCE OF DISCONTINUANCE

WHEREAS, on December 8, 1983, the Director of the New Mexico Environmental Improvement Division ("EID") requested Quality Brine ("QB") to submit a Discharge Plan pursuant to §§3-104 and 5-101.B.3 of the New Mexico Water Quality Control Commission ("Commission") regulation for its discharges from its brine facility and brine well located in Section 21, Township 12 South, Range 36 East, N.M.P.M., Lea County, New Mexico; and

WHEREAS, neither the regulations nor an extension to discharge without an approved Discharge Plan issued by the Director, nor any Court Order, allows QB to operate an injection well and associated surface facilities without an approved Discharge Plan, and

WHEREAS, recent water quality analysis of nearby and adjacent wells did not indicate any present contamination of drinking water sources due to operations at the site; and

WHEREAS, QB has committed to the Commission to proceed with all diligence to prepare and secure an approved Discharge Plan; and

WHEREAS, the Commission and QB deem it appropriate to enter into this Assurance of Discontinuance.

QB assures the Commission as follows:

1. ASSURANCE: All unapproved discharges at the QB Brine Facility shall be discontinued as set forth in Paragraph 2 of the Assurance of Discontinuance.

2. SCHEDULE OF COMPLIANCE: It is agreed that the Discharge Plan shall comply with the following schedule:

A. QB shall submit plans and specifications of the in situ extraction well to the EID — on or before June 15, 1984.

B. QB shall submit a proposal outlining measures to be taken to correct any possible violation of the Water Quality Control Commission Regulations resulting from surface activities — on or before June 15, 1984.

C. EID shall complete review of QB materials submitted by June 15, 1984, and EID shall provide comments to QB — on or before August 15, 1984.

D. QB shall submit the information listed in §5-102.B.1d and the information listed in §5-203.A of the Water Quality Control Commission Regulations to the EID — on or before November 30, 1984.

E. EID shall complete review of QB materials submitted under Paragraph 2.D herein and EID shall provide comments to QB — on or before January 30, 1985.

F. QB shall submit a complete Discharge Plan which shall address all applicable requirements of the Water Quality Control Commission Regulations, Parts 3 and 5 — on or before March 29, 1985.

G. EID shall complete review of Discharge Plan Application and EID shall provide comments to QB — on or before June 3, 1985.

H. QB shall submit responses to the EID comments — on or before August 1, 1985.

I. EID Director's approval or disapproval of Discharge Plan Application shall be promulgated — on or before October 1, 1985.

If a public hearing is scheduled by the EID Director pursuant to §3-108 of the Commission's Regulations, all deadlines in Paragraphs 2.G through 2.I shall be 45 days later.

3. MUTUAL COOPERATION: QB and the EID shall mutually cooperate in accomplishing on a timely basis the matters contemplated by this Assurance. In this respect, direct communication among QB representatives and EID personnel is encouraged.

4. MEETINGS: It is understood that QB and the EID shall meet on at least two occasions to discuss the progress during the initial 240 days of the Compliance Schedule. The first meeting shall take place on approximately the 90th day, and the second meeting on approximately the 150th day, as the parties may mutually and reasonably agree. EID shall endeavor to communicate any concerns which might necessitate additional information so as to allow QB sufficient time to respond.

5. EXTENSIONS FOR GOOD CAUSE: It is expressly agreed and understood by the parties hereto that events not reasonably foreseeable on the date of execution of this Assurance may occur which will make it impossible or extremely difficult for QB to comply in a timely fashion with those compliance dates set out in numbered Paragraph 2. In the event such unforeseen events do occur, QB may apply to the Commission for an extension for an additional reasonable period of time to comply with such tasks in numbered Paragraph 2. The additional reasonable period of time, if granted, shall in all cases be governed by the relevant circumstances.

6. ENFORCEMENT: The Commission shall not undertake enforcement against QB for the continuation of current discharges occurring during the pendency of this Assurance without first

giving QB 15 days prior written notice by the Director that QB is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under §74-6-11 N.M.S.A. 1978.

Failure by QB to comply with any condition of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under §§74-6-5 and 10 N.M.S.A. 1978, as applicable.

Nothing in this Assurance of Discontinuance shall relieve QB from the responsibility for complying with all the provisions of the Water Quality Act, the regulations promulgated thereunder or any other provision of law except as otherwise specifically provided herein.

7. NO ADMISSION: The terms, execution and any conduct in accordance herewith shall not constitute an admission of any kind by QB relating to matters under the Water Quality Act, Commission regulations, or any other matters relating to health or environment.

Signed and acknowledged this____day of_____, 1984.

_____
Danny Watson d/b/a Quality Brine

STATE OF NEW MEXICO)
: SS
COUNTY OF_____)

The foregoing instrument was acknowledged before me this _____day of _____, 19___, by Danny Watson, d/b/a Quality Brine.

My Commission Expires:

_____ _____
Notary Public

APPROVED:

WATER QUALITY CONTROL COMMISSION

By_____
Steven Asher, Chairman
Water Quality Control Commission

STATE OF NEW MEXICO)
: SS
COUNTY OF_____)

The foregoing instrument was acknowledged before me this _____ day of _____, 19___, by Steven Asher, Chairman of the Water Quality Control Commission, on behalf of the Water Quality Control Commission.

My Commission Expires:

_____ _____
Notary Public

HEALTH ENVIRONMENT department

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

TONEY ANAYA
GOVERNOR

ROBERT McNEILL
SECRETARY

ROBERT L. LOVATO, M.A.P.A.
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

March 12, 1984

Mr. R.W. Gallini, Attorney
Heidel, Samberson, Gallini, Williams
and Harrington
P.O. Drawer 1599
Lovington, NM 88260

RE: Assurance of Discontinuance of Quality Brine

Dear Mr. Gallini:

As I relayed to you by telephone, the March 13th meeting of the Water Quality Control Commission (WQCC) has been cancelled, due to the likelihood that the Commissioners will have to attend to situations arising from the special session of the legislature. The proposed agenda for the March 13th meeting of the WQCC will be moved to the meeting on April 10th, instead. I sincerely hope this change in schedule does not inconvenience you or your client.

At the April 10th meeting, the Commission will be considering the enclosed standard form for an Assurance of Discontinuance. Please note numbered paragraph 5, "Extensions for Good Cause." You will recall that, at the January 10th meeting, one of the Commissioners expressed concern about the "good cause" clause used in the Assurance of Discontinuance of KTS. We have reviewed the new "good cause" language with that Commissioner, and we expect the full Commission's agreement with the change at their next meeting. We recommend that you incorporate the new "good clause" language into the Quality Brine Assurance of Discontinuance.

I would also like to direct your attention to several typographical and oversight errors in the Quality Brine Assurance, which are likely to be noticed by one or more Commissioners, and which you could correct at the same time as you incorporate the altered "good cause" clause into the Assurance. A copy of your submission on behalf of Quality Brine is enclosed, with the errors circled.

I see no reason to alter the schedule of compliance in Quality Brine's Assurance, if that is agreeable to you and your client.

Sincerely,

Paige Grant

Paige Grant
Hydrologist
Ground Water Section

PG:egr

Enclosure

cc: Danny Watson, Quality Brine
John Guinn, EID District IV, Manager

mse

LAW OFFICES
HEIDEL, SAMBERSON, GALLINI, WILLIAMS & HARRINGTON
311 NORTH FIRST STREET
POST OFFICE DRAWER 1599
LOVINGTON, NEW MEXICO 88260
(505) 396-5303

C. GENE SAMBERSON
R. W. GALLINI
JERRY L. WILLIAMS
DAVID L. HARRINGTON

F. L. HEIDEL
OF COUNSEL

February 23, 1984

RECEIVED

FEB 24 1984

GROUND WATER/HAZARDOUS WASTE BUREAU

Mr. David G. Boyer
Environmental Improvement Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968

Re: Application of Quality Brine
For Approval of Discharge Plan,
Assurance of Discontinuance

Dear Mr. Boyer:

Enclosed herewith please find an original and two (2) copies of the Assurance of Discontinuance which we prepared on behalf of Danny Watson d/b/a Quality Brine in connection with the above referenced matter.

It is our understanding that this matter will be on the agenda of the Water Quality Control Commission on Tuesday, March 13, 1984, in Santa Fe. Therefore, we would appreciate your reviewing the instrument and let me know what, if any, changes need to be made.

We would also appreciate verification of this item being on the agenda and considered by the Water Quality Control Commission on Tuesday, March 13, 1984.

Very truly yours,

HEIDEL, SAMBERSON, GALLINI & WILLIAMS

R. W. Gallini

R. W. Gallini

RWG:ds

Enclosure

cc Danny Watson

2/27: left message for Gallini that 3/13 mtg of Commission is cancelled

ASSURANCE OF DISCONTINUANCE

WHEREAS, on December 8, 1983, the Director of the New Mexico Environmental Improvement Division ("EID") requested Quality Brine ("QB") to submit a Discharge Plan pursuant to §§3-104 and 5-101.B.3 of the New Mexico Water Quality Control Commission ("Commission") regulation for its discharges from its brine facility and brine well located in Section 21, Township 12 South, Range 36 East, N.M.P.M., Lea County, New Mexico; and

WHEREAS, neither the regulations nor an extension to discharge without an approved Discharge Plan issued by the Director, nor any Court Order, allows QB to operate an injection well and associated surface facilities without an approved Dishcarge Plan, and

WHEREAS, recent water quality analysis of nearby and adjacent wells did not indicate any present contamination of drinking water sources due to operations at the site; and

WHEREAS, QB has committed to the Commission to proceed with all diligence to prepare and secure an approved Discharge Plan; and

WHEREAS, the Commission and QB deem it appropriate to enter into this Assurance of Discontinuance.

QB assures the Commission as follows:

1. ASSURANCE: All unapproved discharges at the QB Brine Facility shall be discontinued as set forth in Paragraph 2 of the Assurance of Discontinuance.

2. SCHEDULE OF COMPLIANCE: It is agreed that the Discharge Plan shall comply with the following schedule:

A. QB shall submit plans and specifications of the in situ extraction well to the EID — on or before June 15, 1984.

B. QB shall submit a proposal outlining measures to be taken to correct any possible violation of the Water Quality Control Commission Regulations resulting from surface activities — on or before June 15, 1984.

C. EID shall complete review of QB materials submitted by March 15, 1984, and EID shall provide comments to QB — on or before August 15, 1984.

D. QB shall submit the information listed in §5-102.B.1d and the information listed in §5-203.A of the Water Quality Control Commission Regulations to the EID — on or before November 30, 1984.

E. EID shall complete review of QB materials submitted under Paragraph 2.D herein and EID shall provide comments to QB — on or before January 30, 1985.

F. QB shall submit a complete Discharge Plan which shall address all applicable requirements of the Water Quality Control Commission Regulations, Parts 3 and 5 — on or before March 29, 1985.

G. EID shall complete review of Discharge Plan Application and EID shall provide comments to QB — on or before June 3, 1985.

H. QB shall submit responses to the EID comments — on or before August 1, 1985.

I. EID Director's approval or disapproval of Discharge Plan Application shall be promulgated — on or before Ocotber 1, 1985.

If a public hearing is scheduled by the EID Director pursuant to §3-108 of the Commission's Regulations, all deadlines in Paragraphs 2.G through 2.I shall be 45 days later.

3. MUTUAL COOPERATION: QB and the EID shall mutually cooperate in accomplishing on a timely basis the matters contemplated by this Assurance. In this respect, direct communication among QB representatives and EID personnel is encouraged.

4. MEETINGS: It is understood that QB and the EID shall meet on at least two occasions to discuss the progress during the initial 240 days of the Compliance Schedule. The first meeting shall take place on approximately the 90th day, and the second meeting on approximately the 150th day, as the parties may mutually and reasonably agree. EID shall endeavor to communicate any concerns which might necessitate additional information so as to allow QB sufficient time to respond.

5. GOOD CAUSE: It is expressly understood that in the event additional time is requested by QB for any of the compliance dates enumerated in Paragraph 2 for purpose of any request made to the Commission "good cause" shall include, but not be limited to situations where:

(a) there is a required response to issues that QB did not anticipate or address in a timely manner and should not have reasonably anticipated or addressed in a timely manner; or

(b) there are delays in procurement, fabrication, installation, vender selection and testing caused by parties other than QB entirely beyond the control of QB.

6. ENFORCEMENT: The Commission shall not undertake enforcement against QB for the continuation of current discharges occurring during the pendency of this Assurance without first

giving QB 15 days prior written notice by the Director that QB is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under §74-6-11 N.M.S.A. 1978.

Failure by QB to comply with any condition of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under §§74-6-5 and 10 N.M.S.A. 1978, as applicable.

Nothing in this Assurance of Discontinuance shall relieve QB from the responsibility for complying with all the provisions of the Water Quality Act, the regulations promulgated thereunder or any other provision of law except as otherwise specifically provided herein.

7. NO ADMISSION: The terms, execution and any conduct in accordance herewith shall not constitute an admission of any kind by QB relating to matters under the Water Quality Act, Commission regulations, or any other matters relating to health or environment.

Signed and acknowledged this____day of_____, 1984.

_____
Danny Watson d/b/a Quality Brine

STATE OF NEW MEXICO)
: SS
COUNTY OF_____)

The foregoing instrument was acknowledged before me this _____day of _____, 19___, by Danny Watson, d/b/a Quality Brine.

My Commission Expires:

_____ _____
Notary Public

APPROVED:

WATER QUALITY CONTROL COMMISSION

By_____
Steven Asher, Chairman
Water Quality Control Commission

STATE OF NEW MEXICO)
: SS
COUNTY OF_____)

The foregoing instrument was acknowledged before me this _____ day of _____, 19___, by Steven Asher, Chairman of the Water Quality Control Commission, on behalf of the Water Quality Control Commission.

My Commission Expires:

_____ _____
Notary Public

HEALTH ENVIRONMENT STATE OF NEW MEXICO

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 4:20	Date 2/15/84
Originating Party: Patsy Grant	Other Parties: Danny Watson's sec'y 398-3490	

Subject: Assurance of Discontinuance

Discussion: I told her the Assurance must be in by the afternoon of 2/27/84 in order to get on the adenda for the 3/13/84 WQC meeting. Told her they could copy the KTS Assurance except to change all the dates to 3 months later (see copy attached).

Conclusions or Agreements

Distribution

Signed Patsy Grant

ASSURANCE OF DISCONTINUANCE

WHEREAS, on July 28, 1983, the Director of the New Mexico Oil Conservation Division ("OCD") requested Kenneth Tank Service ("KTS") to submit a Discharge Plan pursuant to §§ 3-104 and 5-101.B.3 of the New Mexico Water Quality Control Commission ("Commission") regulation for its discharges from its brine facility and brine well located in Section 27, Township 9 South, Range 35 East, N.M.P.M., Lea County, New Mexico; and

WHEREAS, neither the regulations nor an extension to discharge without an approved Discharge Plan issued by the Director, nor any Court Order, allows KTS to operate an injection well and associated surface facilities beyond November 10, 1983, and

WHEREAS, recent water quality analysis of nearby and adjacent wells did not indicate any present contamination of drinking water sources due to operations at the site; and

WHEREAS, KTS has committed to the Commission to proceed with all diligence to prepare and secure an approved Discharge Plan; and

WHEREAS, the Commission and KTS deem it appropriate to enter into this Assurance of Discontinuance.

KTS assures the Commission as follows:

1. ASSURANCE: All unapproved discharges at the KTS Brine Facility shall be discontinued as set forth in Paragraph 2 of the Assurance of Discontinuance.

2. SCHEDULE OF COMPLIANCE: It is agreed that the Discharge Plan shall comply with the following schedule:

A. KTS shall submit plans and specifications of the in situ extraction well to the EID on or before ~~March~~ June 15, 1984.

B. KTS shall submit a proposal outlining measures to be taken to correct any possible violation of the Water Quality Control Commission Regulations resulting from surface activities on or before ~~March~~ June 15, 1984.

C. EID shall complete review of KTS materials submitted by March 15, 1984, and EID shall provide comments to KTS on or before ~~May~~ August 15, 1984.

D. KTS shall submit the information listed in §5-102.B.1d and the information listed in §5-203.A of the Water Quality Control Commission Regulations to the EID on or before ~~August 31~~ November 30, 1984.

E. EID shall complete review of KTS materials submitted under Paragraph 2.D herein and EID shall provide comments to KTS on or before ~~October~~ January 30 31, 1985.

F. KTS shall submit a complete Discharge Plan which shall address all applicable requirements of the Water Quality Control Commission Regulations, Parts 3 and 5 on or before ~~December 31~~ March 29, 1985.

G. EID shall complete review of Discharge Plan Application and EID shall provide comments to KTS on or before ~~March~~ June 3 4, 1985.

H. KTS shall submit responses to the EID comments on or before ~~May~~ August 1, 1985

I. EID Director's approval or disapproval of Discharge Plan Application shall be promulgated on or before ~~July~~ October 1, 1985.

If a public hearing is scheduled by the EID Director pursuant to §3-108 of the Commission's Regulations, all deadlines in Paragraphs 2.G through 2.I shall be 45 days later.

3. MUTUAL COOPERATION: KTS and the EID shall mutually cooperate in accomplishing on a timely basis the matters contemplated by this Assurance. In this respect, direct communication among KTS representatives and EID personnel is encouraged.

4. MEETINGS: It is understood that KTS and the EID shall meet on at least two occasions to discuss the progress during the initial 240 days of the Compliance Schedule. The first meeting shall take place on approximately the 90th day, and the second meeting on approximately the 150th day, as the parties may mutually and reasonably agree. EID shall endeavor to communicate any concerns which might necessitate additional information so as to allow KTS sufficient time to respond.

5. GOOD CAUSE: It is expressly understood that in the event additional time is requested by KTS for any of the compliance dates enumerated in Paragraph 2 for purpose of any request made to the Commission "good cause" shall include, but not be limited to situations where:

(a) there is a required response to issues that KTS did not anticipate or address in a timely manner and should not have reasonably anticipated or addressed in a timely manner; or

(b) there are delays in procurement, fabrication, installation, vender selection and testing caused by parties other than KTS entirely beyond the control of KTS.

6. ENFORCEMENT: The Commission shall not undertake enforcement against KTS for the continuation of current discharges occurring during the pendency of this Assurance without first

giving KTS 15 days prior written notice by the Director that KTS is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under §74-6-11 N.M.S.A. 1978.

Failure by KTS to comply with any condition of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under §§74-6-5 and 10 N.M.S.A. 1978, as applicable.

Nothing in this Assurance of Discontinuance shall relieve KTS from the responsibility for complying with all the provisions of the Water Quality Act, the regulations promulgated thereunder or any other provision of law except as otherwise specifically provided herein.

7. NO ADMISSION: The terms, execution and any conduct in accordance herewith shall not constitute an admission of any kind by KTS relating to matters under the Water Quality Act, Commission regulations, or any other matters relating to health or environment.

Signed and acknowledged this 10th day of January, 1984.

C. K. Kinsolving d/b/a Kenneth Tank Service

STATE OF NEW MEXICO)
: SS
COUNTY OF SANTA FE)

The foregoing instrument was acknowledged before me this 16th day of January, 1984, by C. K. Kinsolving, d/b/a Kenneth Tank Service.

My Commission Expires:

10-25-86

Notary Public

APPROVED:

WATER QUALITY CONTROL COMMISSION

By
Steven Asher, Chairman
Water Quality Control Commission

STATE OF NEW MEXICO)
: SS
COUNTY OF SANTA FE)

The foregoing instrument was acknowledged before me this 17th day of January, 1984, by Steven Asher, Chairman of the Water Quality Control Commission, on behalf of the Water Quality Control Commission.

My Commission Expires:

10-25-86

Notary Public

Meeting of Quality Brine 1/16/84

~~Danny~~ DANNY WATSON P.O. BOX 8 TATUM N. MEX 88267

Phil Withrow P.O. Box 2292 Hobbs N. Mex

STAN WATSON P.O. Box 56 TATUM N.M. 88267

Dave Boyer EID - UIC

Paige Grant " "

Notes of Boyer)

Danny Watson presented a letter explaining the circumstances of their constructing and operating the brine well. He also presented forms showing that he had applied to OCD's Hobbs office for the permits that he thought were necessary.

I explained the UIC program, Part 5 deadlines for approval under Part 3, and the fact that no temporary permit or extension could be given. I told him about the assurance of discontinuance and that KTS is appearing on 1/10 before the WQCC. I told him that it would be the next meeting before the WQCC would be able to consider an assurance (March), and that R. W Gallini was

representating KTS (Also is Watson's lawyer in some matters) He will talk to Gallini and Gallini may touch base with us on 1/18 WQCC Meeting

I spent time talking about the Regs as they apply to both their well and surface facilities.

Watson said well has been shut in since they received Sonder's letter; I said there was no way to permit well and they proceeded at our risk if they used it.

I gave them a copy of their OCD public notice and of names of other operators not having discharge plans.

QUALITY BRINE
PO Box 5967
Hobbs, NM 88241

January 5, 1984

DAVID G. BOYER CEID.
TO WHOM IT MAY CONCERN:

Stan Watson, Phil Withrow and I (Danny Watson) decided to drill a brine well in February, 1983.

We consulted with the Oil Conservation Commission in Hobbs to try to take all precautions necessary to protect all individuals in and around the vicinity of our proposed brine well site.

It was at that time we got all paper work from them and sent in our proposed plans. They were okayed by OCC and we were informed we could go ahead on February 24, 1983.

Due to weather conditions, we were not able to start drilling until April 4, 1983. We then drilled down to the top of the salt formation, moved the rig off, put the reverse unit in the hole and drilled to see how thick the salt was. Three days after the reverse unit was on location, we built a pad and set three 1,000 barrel tanks. The date at this point was April 28, 1983.

We coated and hooked up the tanks, got the displacement pump in and hooked up, and then completed the well.

We were then notified by Mr. Eddy Seay that Oscar Simpson was going to be in town on May 5, 1983. Mr. Seay requested for one of us to come by and visit with Mr. Simpson. I met with Mr. Seay and Mr. Simpson on that date at the OCC office.

It was at that time that Mr. Simpson explained that the regulations that pertained to brine wells would be followed. Then and only then was Mr. Seay and I made aware of Part Five of the Water Quality Control Commission.

Mr. Simpson expressed the importance of Part Five because it had just been added on and had went into effect in December of 1982.

Mr. Simpson told Mr. Seay and I that if I would get this paper work in, there would be no problem, and he would then have it posted for public notice for 30 days and then give us written permission to operate.

We got the paper work together and sent it in to the attention of Mr. Joe Ramey. We asked for verbal permission to operate. At this time, it was the end of the third week in May. Mr. Simpson was on vacation, I believe, and Mr. Ramey gave us permission verbally to operate.

About the second week of June, Mr. RAmey asked Mr. Seay to stop operation of Quality Brine sales because it states in Part Five that no verbal permission can be given until the completed plan has been approved.

Mr. Simpson then called me and told me he wanted to come and inspect our brine station. He planned on being in Hobbs around the end of July. Mr. Seay called and said that Mr. Simpson and he himself would be at the brine station on July 22, 1983 for Mr. Simpson to inspect it.

Mr. Seay, Mr. Simpson, Stan Watson and I all met at the brine station. At that time, Mr. Simpson requested three or four more pictures, and said the water monitor wells needed to be tested.

Mr. Simpson took the pictures himself. He said he would go back to Santa Fe and post this plan for public notice for 30 days according to law. He said we should receive permission to run in 60 to 90 days, but it would be no longer than 90 days. He also said that if we would get out specific coductance tests, he would add them to his file. The description and completion plans were enough for him to go ahead with the public notice and his proceedings.

At this time, I was told by Mr. Simpson the brine wells were going to be transferred to the Environmental Improvement Division, and that he was going to be transferred to the EID also.

Mr. Simpson called me back about three weeks later to let

me know that he had received our water monitor well report and pictures, and he was going to post our plans for public notice at that time. I asked him if we could operate the brine station because we were having to make payment on a note and he said, "I realize ya'll do, and I ought to have written approval out in about three weeks. I don't really see a problem with anything." I thanked him for his time.

In September, 1983, Mr. Sexton with the OCC, Mr. Seay and I all visited briefly about the brine station, and I told them what Mr. Simpson said to me.

Around October 3, 1983, Mr. Simpson called and wanted to know when I sent the brine well report in as there wasn't a date on the front of it. I looked back in my file and told him that according to the dates on a revised copy sent in, we mailed it about June 1, 1983, and that he should have received it by June 9, 1983. I thought he might have received it before that date in all actuality. He then confirmed that the June 9th date was okay with me, and I told him yes. He apologized and said he had been transferred to the EID and everything still looked good, but they needed to review the plans one more time. He saw no problems at that time and said that written approval was on it's way, to go ahead and do as I needed. I then called Mr. Withrow and told Stan Watson of the conversation.

The last part of November, 1983, we received a phone call from Randy Hicks with a consulting firm in Albuquerque. He said he had looked at our report and he could see some problems and that the EID was not going to approve our plans. He said he just wanted to get his name in the hat.

We first told him that we were not aware of any problems and that as far as we knew, everything was okayed by Mr. Simpson. He told me he would send us a list of his fees and services just in case. I agreed to that.

Two to three weeks later, we received a registered letter from Steve Asher directing us to shut down, with which we complied.

All these dates are as close and accurate as I can remember. The statements made by me, or whom was quoted, are very accurate.

Sincerely,

Danny Watson

Danny Watson

PHIL WITHROW
B & E, INC.
TRANSPORTATION OF OILFIELD EQUIPMENT & SUPPLIES

PHONE (505) 393-0762
N.M.S.C.C. NO. 1015-1

P.O. BOX 2292
HOBBS, N.M. 88240

January 10, 1983

TO WHOM IT MAY CONCERN:

B & E, Inc proposes to drill a brine supply well in the vicinity of:

Blocks one (1), Two (2), Three (3) Four (4) Five (5) Six (6) Seven (7) and Eight (8), West Addition to the Town of Tatum, Lea County, New Mexico.

Using a rotary drilling rig, we propose to drilla surface hole to 300 ' - run 8 5/8" casing to circulate cement back to surface. ..Pick up smaller tools and continue to drill to depth of 2300' and circulate cement back to surface.

Then move rig off.. rig up pulling machine and reverse unit. Pick up small tools and drill through the salt section approximately 400 '. Hang tubing on well head and begin to circulate freh water down tubing and back through salt section through 5½" casing to surface thus into three (3) 1000 barrel steel plastic coated storage tanks. The storage tanks will be encased by a dirt holding dike with five (5) foot high walls ten)10) feet thick at a distance of thirty(30) feet from outside of the outermost part of the tanks on both sides and both ends. In additon the entire complex will be fenced with a chain link fence six (6) foot high with three (3) strands of barbed wire on top at a distance of ten (10) feet from the outermost part of the holding dike.

Enclosed is a diagram of the casing program and tank battery.

Sincerely yours,

Phil Withrow, President

LEGAL NOTICE

NOTICE is hereby given that on December 22, 1982 Danny R. Watson, Box 8, Tatum, NM 88267 filed an application number L-632-A with the STATE ENGINEER for permit to change location of shallow well and place and purpose of use of 15.0 acre-feet of shallow ground water per annum by abandoning the use of Well No. L-632 located in the NW¼SW¼SE¼ of Section 21, Township 12 South, Range 36 East, NMPM, for the irrigation of 5.0 acres of land described as follows:

SUBDIVISION	SECTION	TOWNSHIP	RANGE	ACRES
NW¼SE¼SE¼	21	12-S	36-E	5.0

and drilling a shallow well No. L-632-A, 7 inches in diameter and approximately 160 feet in depth, at a point in the SE¼SE¼ of Section 20, Township 12 South, Range 36 East, NMPM, for the diversion of 15.0 acre-feet of shallow ground water per annum for a commercial water station located in the SE¼SE¼ of Section 20, Township 12 South, Range 36 East, NMPM.

Old well to be retained for other rights.

Any person, firm, association, corporation, the State of New Mexico or the United States of America, deeming that the granting of the above application will impair or be detrimental to their water rights, may protest in writing the proposal set forth in said application. The protest shall set forth all protestant's reasons why the application should not be approved and must be filed, in triplicate, with S. E. Reynolds, State Engineer, P. O. Box 1717, Roswell, New Mexico, within ten (10) days after the date of the last publication of this Notice.
Published in the Lovington Daily Leader December 30, 1982 and January 6 and 13, 1983.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-101
Revised 10-1-78

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LAND OFFICE		
OPERATOR		

5A. Indicate Type of Lease: STATE [ ] FEE [X]

5. State Oil & Gas Lease No.: fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. Type of Work

DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well

OIL WELL [ ] GAS WELL [ ] OTHER Brine Supply Well SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Unit Agreement Name: ~~B & E, Inc.~~

8. Farm or Lease Name: Watson

c. Name of Operator: B & E., Inc. and Watson Treating Plant, Inc.

9. Well No.: 1

d. Address of Operator: Box 8 Tatum, NM 88267

10. Field and Pool, or Wildcat

e. Location of Well: UNIT LETTER M LOCATED 593 FEET FROM THE S LINE AND 639 FEET FROM THE West LINE OF SEC. 20 TWP. 12 RGE. 36 NMPM

12. County: Lea

19. Proposed Depth: Appx. 3000' | 19A. Formation: Salt Section | 20. Rotary or C.T.:

21. Elevations (Show whether DF, RT, etc.): 3991 | 21A. Kind & Status Plug. Bond: 5000.00 | 21B. Drilling Contractor: Norton Drilling | 22. Approx. Date Work will start: A S A P

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
~~7 7/8~~	~~5½~~	15.5	2200	500 2 % CAC 12	Circulate to ~~surface~~

1. Rig up rotary rig and drill 7 7/8 hole to 2200'. Run 5½ casing and circulate cement back to surface. Wait 18 hours on cement. 500 sacks class C 2 % CAC-12.
2. Rig down rotary rig and move off.
3. Rig up pulling machine and reverse unit. Pick up 2 7/8 tubing and drill out from under 5½ casing through the salt section to approximately 3000'. Land tubing and circulate fresh water down tubing and out casing to two (2) -1000 bbl coated tanks.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 8/28/83
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Danny K. Watson Title Agent Date 2-24-83

RECEIVED
JAN 6 1984
GROUND WATER/HAZARDOUS WASTE BUREAU

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR TITLE _____ DATE FEB 28 1983

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-101
Revised 10-1-78

REVISED

5A. Indicate Type of Lease: STATE ☐ FEE ☒

5. State Oil & Gas Lease No.: Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER Brine Supply SINGLE ZONE ☒ MULTIPLE ZONE ☐

7. Unit Agreement Name: Quality Brine

8. Farm or Lease Name: Watson

2. Name of Operator: B & E., Inc. And Watson Treating Plant, Inc.

9. Well No.: 1

3. Address of Operator: Box 8 Tatum, N.M. 88267

10. Field and Pool, or Wildcat:

4. Location of Well: UNIT LETTER M LOCATED 593 FEET FROM THE S LINE AND 639 FEET FROM THE W LINE OF SEC. 20 TWP. 12 RGE. 36 NMPM

12. County: Lea

19. Proposed Depth: Arx. 3000'

19A. Formation: Salt

20. Rotary or C.T.:

21. Elevations (Show whether DF, RT, etc.): 3991

21A. Kind & Status Plug. Bond: 5000.00

21B. Drilling Contractor: Dessert Drlg.

22. Approx. Date Work will start: ASAP

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12"	8-5/8	24#	53'	60	Circ.
7-7/8	5-1/2	17#	2250'	300	Circ.

1. Rig up rotary rig and drill 12" hole to 53'. Run 8-5/8" conductor pipe and circ. cement back to surface. Let cement dry 12 hours. ("C" 4% $CACL_2$).
2. Drillout from under 85/8 casing with 7-7/8 bit to 2250'. Run 5-1/2 Casing and cement back to surface. ("C" Neat)
3. Rig down rotary rig and move off.
4. Rig up pulling machine and reverse unit. Pick up 2-7/8 N-80 tubing and drill out from under 5-1/2 csg. through the salt section to approx. 3000'. Land tubing and circulate fresh water to produce brine. Brine will be stored in two 1000 BBL. coated tanks.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Larry R. Watson Title Agent Date 6-6-83

RECEIVED
JAN 6 1984
GROUND WATER/HAZARDOUS WASTE BUREAU

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
B & E Inc. WATSON TREATING PLANT, INC.	WATSON ~~BRINE WELL~~	1

Unit Letter	Section	Township	Range	County
M	20	12 SOUTH	36 EAST	LEA

Actual Footage Location of Well:
593 feet from the SOUTH line and 639 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
	Salt		Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

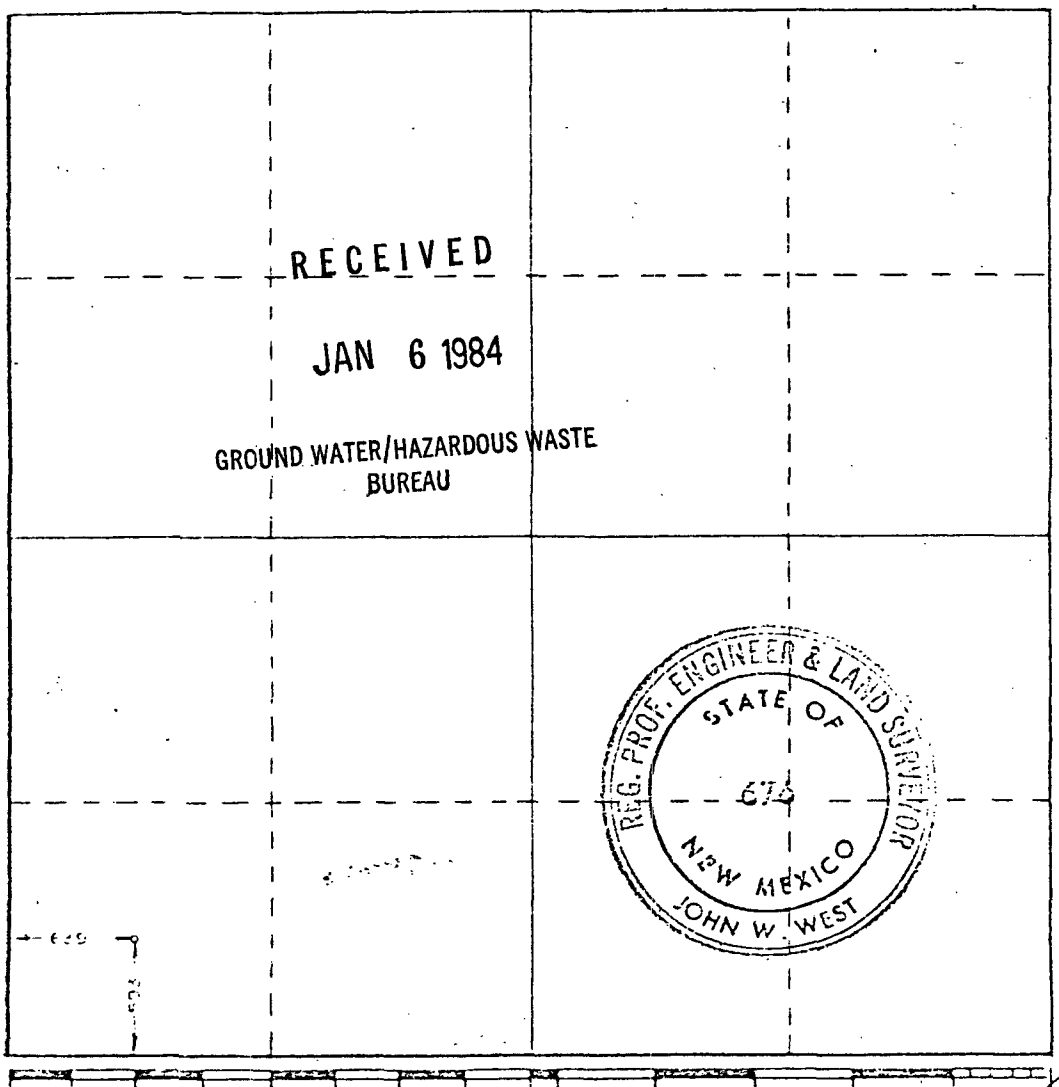
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: B&E Inc. & Watson Treating Plant Inc.

Position: Agent

Company:

Date: 2-24-83

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: 2/18/83

Registered Professional Engineer and/or Land Surveyor

Certificate No. JOHN W. WEST NO. 676

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease: State ☐ Fee ☒
5. State Oil & Gas Lease No.: Fee

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL ☐ GAS WELL ☐ OTHER. Brine Supply Well

7. Unit Agreement Name: B & E Inc.

1. Name of Operator: Watson Brothers

8. Farm or Lease Name: Watson

2. Address of Operator: Box 8 Tatum, New Mexico 88267

9. Well No.: # 1

4. Location of Well: UNIT LETTER ____, 593 FEET FROM THE South LINE AND 639 FEET FROM THE West LINE, SECTION 20 TOWNSHIP 12 RANGE 36 NMPM.

10. Field and Pool, or Wildcat:

15. Elevation (Show whether DF, RT, GR, etc.): 3991

12. County: Lea

6. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☒	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		OTHER ☐	

7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. Rig up drilling rig.
2. Drill to 2000', run 5½" casing to total depth.
3. Circulate cement back to surface (appoximatley 500 sacks class C 2% CAC-12)
4. Wait on cement 12 hours.
5. Rig down drilling rig and move off.
6. Rig up pulling machine and reverse unit.
7. Pick up 2 7/8 tubing and drill out from under 5½ casing and through salt section (total depth approximately 3000'.) Expect 700 to 800' of salt.
8. Hang tubing and circulate fresh water down tubing out of casing to two (2) 1000 bbl. steel tanks.

RECEIVED
JAN 6 1984
GROUND WATER/HAZARDOUS WASTE BUREAU

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED _____ TITLE _____ DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Revised 6-17-77

STATE OF NEW MEXICO

ONE-WELL PLUGGING BOND

FOR CHAVES, EDDY, LEA, McKINLEY, RIO ARRIBA, ROOSEVELT, SANDOVAL, AND SAN JUAN COUNTIES ONLY

BOND NO. 2980227
(For Use of Surety Company)

AMOUNT OF BOND 5,000

COUNTY Lea

NOTE: For wells less than 5,000 feet deep, the minimum bond is $5,000.00*
For wells 5,000 feet to 10,000 feet deep, the minimum bond is $7,500.00*
For wells more than 10,000 feet deep, the minimum bond is $10,000.00

*Under certain conditions, a well being drilled under a $5,000.00 or $7,500.00 bond may be permitted to be drilled as much as 500 feet deeper than the normal maximum depth, i.e., a well being drilled under a $5,000.00 bond may be permitted to go to 5,499 feet, and a well being drilled under a $7,500.00 bond may be permitted to go to 10,500 feet.

File with Oil Conservation Commission, P. O. Box 2088, Santa Fe 87501

KNOW ALL MEN BY THESE PRESENTS:

That B & E., Inc. and Watson Treating Plant, Inc, (An individual) (a partnership) (a corporation organized in the State of A Joint Venture, with its principal office in the city of New Mexico, State of Hobbs, and authorized to do business in the State of New Mexico), as PRINCIPAL, and New Mexico, a corporation organized and existing under the laws of the State of Safeco Insurance Company, and authorized to do business in the State of New Mexico, as SURETY, are held firmly bound unto the State of New Washington Mexico, for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Section 65-3-11, New Mexico Statutes Annotated, 1953 Compilation, as amended, in the sum of $5,000.00 Dollars lawful money of the United States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases or carbon dioxide (CO_2) gas leases, or helium gas leases with the State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO_2) gas leases, or helium gas leases on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of one well not to exceed a depth of less than 3000 ft. to prospect for and produce oil or gas, or carbon dioxide (CO_2) gas or helium gas, or does own or may acquire, own or operate such well, or such well started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO_2) leases, or helium gas leases, and on land patented by the United States of America to private individuals, and on land otherwise owned by private individuals, the identification and location of said well being 593 ft. from S. line and 639 Feet from W. (Here state exact legal subdivision by 40 acre tract or lot) Section 20, Township 12S (XXXX) (South), Range 36 E (East) XXXX, N.M.P.M., Lea County, New Mexico.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, shall plug said well when dry or when abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Commission of New Mexico in such way as to confine the oil, gas, and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

RECEIVED

JAN 6 1984

GROUND WATER/HAZARDOUS WASTE BUREAU

SAFECO

POWER OF ATTORNEY

SAFECO INSURANCE COMPANY OF AMERI
GENERAL INSURANCE COMPANY OF AME
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

No. 3301

KNOW ALL BY THESE PRESENTS:

That **SAFECO INSURANCE COMPANY OF AMERICA** and **GENERAL INSURANCE COMPANY OF AMERICA**, each a Washington corporation, does each hereby appoint

----------EDWIN L. DUNAGAN; GEORGE T. DUNAGAN; BRENDA NORTHCUTT; JERRY M. MUSICK, Carlsbad, New Mexico----------

its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA and **GENERAL INSURANCE COMPANY OF AMERICA** have each executed and attested these presents

this 28th day of October, 19 82.

CERTIFICATE

Extract from the By-Laws of **SAFECO INSURANCE COMPANY OF AMERICA** and of **GENERAL INSURANCE COMPANY OF AMERICA:**

"Article V, Section 13. — FIDELITY AND SURETY BONDS . . . the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business . . . On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of **SAFECO INSURANCE COMPANY OF AMERICA** and of **GENERAL INSURANCE COMPANY OF AMERICA** adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out:

(i) The provisions of Article V, Section 13 of the By-Laws, and

(ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and

(iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

I, W.D. Hammersla, Secretary of **SAFECO INSURANCE COMPANY OF AMERICA** and of **GENERAL INSURANCE COMPANY OF AMERICA**, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

this 22nd day of February, 19 83.

B & E., Inc. and Watson Treating Plant, Inc.

PRINCIPAL

P.O. Box 2292
Hobbs, NM 88240
Address

By Phil Withrow
Signature

President
Title

Lois Watson, President

(Note: Principal, if corporation, affix corporate seal here.)

Safeco Insurance Company

SURETY

Safeco Plaza
Seattle, Washington
Address

By
George T. Dunagan Attorney-in Fact

(Note: Corporate surety affix corporate seal here.)

ACKNOWLEDGEMENT FORM FOR NATURAL PERSONS

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

_____
Notary Public

_____
My Commission expires

ACKNOWLEDGEMENT FORM FOR CORPORATION

STATE OF N. M.)
COUNTY OF Lea)

On this 10th day of January, 19 83, before me personally appeared Phil Withrow, to me personally known who, being by me duly sworn, did say that he is President of B & E, Inc. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Linda Hart
Notary Public

My Commission expires
5/26/85

ACKNOWLEDGEMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico)
COUNTY OF Eddy) ss.

On this 22nd day of February, 19 83, before me appeared George T. Dunagan, to me personally known, who, being by me duly sworn, did say that he is Attorney In Fact of Safeco Insurance Company and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Frances Wraltz
Notary Public

April 16, 1983
My Commission expires
(Note: Corporate surety attach power of attorney.)

RECEIVED

JAN 6 1984

GROUND WATER/HAZARDOUS WASTE BUREAU

APPROVED BY:

OIL CONSERVATION COMMISSION OF NEW MEXICO

By _____

Date _____

STATE OF NEW MEXICO
HEALTH & ENVIRONMENT

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal | Time 10:00 AM | Date 12/15/83

Originating Party	Other Parties
Phil Withrow (Partner with Danny Watson in Quality Brine, Tatum	Dave Boyer EID

Subject: December 8, 1983, compliance letter to Quality Brine

Discussion: Withrow called to ask for more information on letter and whether they could get a grace period. After asking, he provided me with the following information: The brine well was drilled the first part of this year; They have been operating for 2-3 months; brine report submitted to OCD in June of 83; Letter of 12/8 First time notified of part 5 UIC requirements; have sought to comply with regs from OCD. Withrow claims that both Eddie Sea (Hobbs) and Joe Ramey gave permission verbally to operate. I told him about the changeover from OCD to EID and the possibility of an Assurance of Discontinuance

Conclusions or Agreements: I told Withrow to document by letter to the best of his ability all dealings with OCD regarding verbal permission to operate, since that was his intent to comply with the regulations will be clear. We will attempt to verify his assertions.

Distribution: Quality Brine File.

Signed: David J. Boyer

P 506 254 542

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Danny Watson	
Street and No. P.O. Box 75	
P.O. State and ZIP Code Tatum, NM 88267	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

PS Form 3800, Feb. 1982

HEALTH ENVIRONMENT department

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

Steven Asher, Director

TONEY ANAYA
GOVERNOR

ROBERT McNEILL
SECRETARY

ROBERT L. LOVATO, M.A.P.A.
DEPUTY SECRETARY

JOSEPH F. JOHNSON
DEPUTY SECRETARY

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

December 8, 1983

Danny Watson
Quality Brine
P.O. Box 75
Tatum, NM 88267

RE: Watson #1 Brine Manufacturing Well

Dear Mr. Watson:

The responsibility for regulating brine production wells has been transferred from the Oil Conservation Division (OCD) to the Environmental Improvement Division (EID). Your discharge plan materials submitted to OCD on June 9, 1983, have been reviewed by this office. The information required to obtain an approved discharge plan under Part 5 (Underground Injection Control) of the Water Quality Control Commission (WQCC) Ground Water Regulations is of a technically complex nature. The information you have submittted to date does not address the majority of WQCC Part 5 concerns. Generally dischargers find it necessary to hire a professional consultant with expertise in Underground Injection Control. At your request, I will provide you with a list of consultants who have done such work in New Mexico.

I will enumerate briefly the areas which need to be addressed in future submittals in order to complete your discharge plan. They are as follows:

3-106.C. Quantity and quality of the discharge need to be addressed in more detail. Specifically an analysis of brine should include: major anions and cations and TDS. Flooding potential should be quantified for the twenty-four hour, 100 year flood event. Site design should include plans and specifications detailing how Quality Brine will prevent seepage from transfer areas and overflow ponds from causing ground-water standards to be exceeded. Typically this would involve lining the pond and using concrete pads with sumps in the brine transfer areas. Information concerning the depth to water (static water levels) in water-supply wells, water quality (major anions, cations, and TDS) of these wells, and direction of ground-water flow in the area should be submitted.

5-202 and 5-203 All wells (including oil wells, brine wells, water wells, etc.) within the area of review (as defined by 5-202) must be identified, and

action taken to assure that they are properly completed or properly abandoned.

5-204 Mechanical integrity test results performed at maximum operating pressure must be provided and a description of how the test was conducted.

5-205.A.3. You have already provided some of this information. A discussion on injection pressures needs to be submitted. Also a discussion of the water-bearing characteristics of the Red Beds should be submitted.

5-205.C.2. It may be possible to use existing, hydraulically down-gradient wells that bottom in the Ogalla Formation as monitoring wells. You may submit such a proposal including a monitoring schedule.

5-206 If injection is under gravity pressure this should be stated, otherwise indicate what injection pressure will be used.

5-207, 5-208 and 5-209 These sections of the regulations need to be addressed in considerable detail. The information presented to date concerning plugging and abandonment does not go into adequate detail.

The above comments are a general enumeration of the information required in order to complete your discharge plan. This brief review is not intended to list every item of information which is required but merely to give you an idea of the scope of a completed discharge plan under Part 5 of the WQCC Regulations. For ease of review your future submittals should track the order of the various sections of the regulations which require the information.

I remind you that your brine production well may not be used until you have obtained an approved discharge plan. Violation of these regulations pursuant to NMSA 74-6-5 is a misdemeanor punishable by a fine up to $10,000 per day, or imprisonment up to one year, or both.

If you have any questions, please contact David Boyer at the above address and telephone number (ext. 303). We are available to meet with you or your consultant to discuss these concerns in more detail.

Sincerely,

Karl Souder

Karl Souder
Ground-Water Hydrologist
Ground Water Permitting
and Compliance Section

cc: Richard Young, EID Chief Attorney
John Guinn, EID Dist. IV, Manager
Joe Ramey, Oil Conservation Division
EID Field Office, Hobbs

KS:egr

MSL

Quality Brine
Tatum, NM
August 28,1983

Picture #2-----is from West to East.

The #1 and #2 Tanks are brine tanks. They are each coated with a Flake Line material (Polyester)

These tanks are also entirely coated---Top, sides and bottom.

All tanks were tested after coating for pin holes. There were absolutely none found.

We feel we have taken every precaution necessary to prevent harm to anyone.

This is a supplamentry to the Original file for Quality Brine of Tatum, New Mexico.

Quality Brine
Tatum N.Mex

August 28,1983

3 new 1000 BBLS tanks are totally coated,all sides and bottom.

Pictures #1-----Is East to West

Picture #1-----East tank is fresh water tank. It is coated with Enoxy-phenolic(Matcote #850-851)
The tank is applicable for holding drinking water.

Revised June 197[illegible]

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Danny Watson Owner's Well No. _____

Street or Post Office Address Box 8

City and State _____

Well was drilled under Permit No. L-632-A and is located in the:

a. SW ¼ SW ¼ ¼ ¼ of Section 20 Township 12S Range 36E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the West addn. of Town Tatum

c. Lot No. 1-8 of Block No. 3 of the _____

Subdivision, recorded in Lea County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor B+A water well Service License No. WD-764

Address Box 864 Tatum NM

Drilling Began 2/3/83 Completed 2/14/83 Type tools Percussion Size of hole 6 in.

Elevation of land surface or [redacted] at well is 3995 ft. Total depth of well 162 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 18 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)
18	36	18	Sandy Caliche	
41	53	12	White sand w/ light clay	
128	162	34	Layered hard & soft sandstone	

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
5 5/8	24	welded	0	162'	163	none	18' 120'	36' 162'

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

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. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Top Soil dark
3	18	15	Caliche white
18	36	18	Caliche with sand - w/ B white
36	41	5	Caliche white
41	53	13	White sand w/ light clay w/ B Red
53	56	3	Quartzite - hard white
56	63	7	yellow clay
63	80	17	yellow clay w/ small gravell
80	105	25	Gray clay
105	110	5	yellow clay
110	111	1	Sandstone - hard
111	115	4	Blue clay
115	116	1	Sandstone - hard
116	119	3	Blue clay
119	120	1	Sandstone - hard
120	128	8	Blue clay
128	162	34	Layered hard & soft sandstone, grey & tan
162	TD		

Section 7. REMARKS AND ADDITIONAL INFORMATION

From 110' to TD yellow clay chunks ~~were falling into bore making the formation~~ being drilled difficult to discern as to color and texture

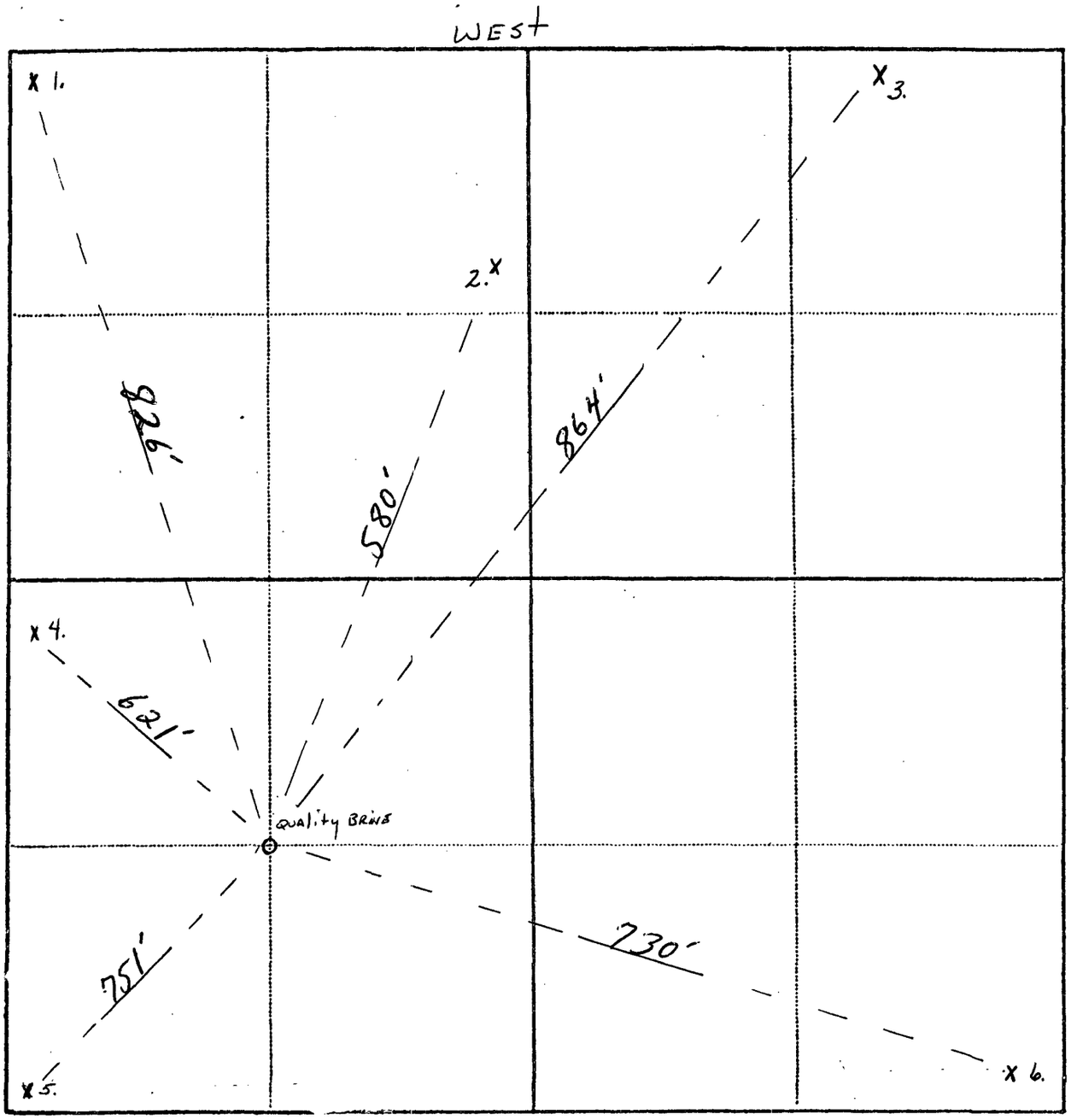
The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Carl L Smelcer
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.

Quality BRINE
Box 25, TATum, N.M.
505-398-3490

Sec. 20 Township No. 12 of Range No. 36



1. Allen Benson	E.C. Reading	1100 @ 26°c	8-1-83
2. Perian Corp.	E.C. Reading	1150 @ 24°c	
3. Roy Tillman	" " "	1100 @ 23°c	
4. Al Griffin	" " "	1100 @ 24°c	
5. Buckeye Gas Prods.	" " "	1500 @ 25°c	
6. Danny Watson	" " "	1025 @ 21°c	

24-Hour Service Call
Phones: 398-3490
398-3464

WATSON TREATING PLANT

Box 75
Tatum, New Mexico 88267

Vacuum Trucks
Brine Water
Fresh Water
Mud Oil
Transport Trucks
Oil Reclaiming

June 9,1983

Joe D. Ramey
Oil Conservation Division
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87501

Dear Mr. Ramey,

I hope you will find the following report to be complete. Please cntact me if I have overlooked any portion listed in the WQCC regulations.

It is our request to obtain verbal permission to operate our new facility.. As with any oilfield project, we are eager to begin service to our area.

Sincerely,

Stan Watson
Watson Treating Plant, Inc.

Quality Brine
Tatum N. Mex.

I Alvin F. Griffin give my consent for the onerator of quality brine watson well #1 of tatum n. mex. to monitor my fresh water supply well.

Sighned Alvin F. Griffin

Quality Brine
Tatum N. Mex.

I Permian Corp. give my consent for the onerator of quality brine watson well #1 of tatum n. mex. to monitor my fresh water supply well.

Sighned Pulard Rentz

Quality Brine
Tatum N. Mex.

FOR Buckeye C&I

I Mike Cason give my consent for the onerator of quality brine watson well #1 of tatum n. mex. to monitor my fresh water supply well.

Sighned Mike Cason

Quality Brine
Tatum N. Mex.

I Allen J. Benson give my consent for the onerator of quality brine watson well #1 of tatum n. mex. to monitor my fresh water supply well.

Sighned Allen J. Benson

Quality Brine
Tatum N. Mex.

I Doyle Bonds give my consent for the onerator of quality brine watson well #1 of tatum n. mex. to monitor my fresh water supply well.

Sighned Doyle Bonds

Marcae

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

SANTA FE, NEW MEXICO

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plan has been submitted for approval to the Director of the Oil Conservation Division, P. O. Box 2088, State Land Office Building, Santa Fe, New Mexico 87501, telephone (505) 827-5803.

QUALITY BRINE, Box 75, Tatum, New Mexico 88267, telephone (505) 398-3490, Donny Watson, requests approval of their discharge plan for their brine in situ extraction well (brine supply well) and facility located in Section 20, Township 12 South, Range 36 East, Lea County, New Mexico. Quality Brine injects water down their injection well to an underlying salt formation that is approximately 2300 feet deep. The injected water dissolves the salt, forms a brine water solution with a total dissolved solids content of approximately 300,000 mg/L and weighs approximately 10 pounds per gallon. Quality Brine extracts and sells the brine water solution to various companies for use in oil and gas production.

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

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 28th day of July, 1983.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

JOE D. RAMEY

Director

S E A L

1

(2)

3

11-6-91

Quality Brine - Tatum New Mexico

Old tank storing tank bottoms with spilled oil on ground surface.

K. Brown

11-6-91

Quality Brine - Tatum NM

Diesel fuel tank with inadequate containment below values.

K. Brown

11-6-97

Quality Brine - Tatum NM
Diesel Fuel tank with
inadequate containment.
Fuel on ground surface from large
loading valve.

K. Brown

11-6-91

Quality Brine - Tatum NM

Containment under 2 tanks storing workover fluids.

K. Brown

11-6-91

Quality Brine - Tatum NM

Containment under 2 tank valves storing workover fluids

11-6-91

Quality Brine - Tatum NM

Brine loading area with containment under loading hose.

K Brown

Quality Brine, Tatum NM
Brine loading area with containment
under valves.

K. Brown

Quality Brine 3/14/90

Quality Brew 3/14/90

Quality Brine 3/14/90

REPORT OF:

QUALITY BRINE

TATUM, N.M.

Quality Brine
P.O. Box 75
Tatum, N.M. 88267
505-398-3490

WATER QUALITY CONTROL COMMISSION REGULATIONS

QUALITY BRINE, WATSON #1
Tatum, NM 88267

Part 3

1. The quantity, quality, and flow characteristics of the discharge fluid at this site are as follows: We will be producing 10 lb. brine by means of injecting fresh water down the casing and producing through the tubing into two-1000 barrell storage tanks. To be sold upon demand but not to exceed state regulations.

2. There are no other discharge wells within one mile of our locations, however there are six water wells (see sample on page 2).

3. Depth of fresh water is shown insample page 3 . TDS concentration of the ground water in the Tatum NM area will average 124 ppm according to the State Engineer office and USGS. Our report does include TDS from water wells in the immediate area. Pages 10-14

4. Flood potential of the site and the Tatum area has been alleviated by a dam in eight mile draw northwest of Tatum.

5. Sampling and measurement of calculation of flow is made available by a three inch meter at the fresh water well and four inch meters attached at the brine station loading header.

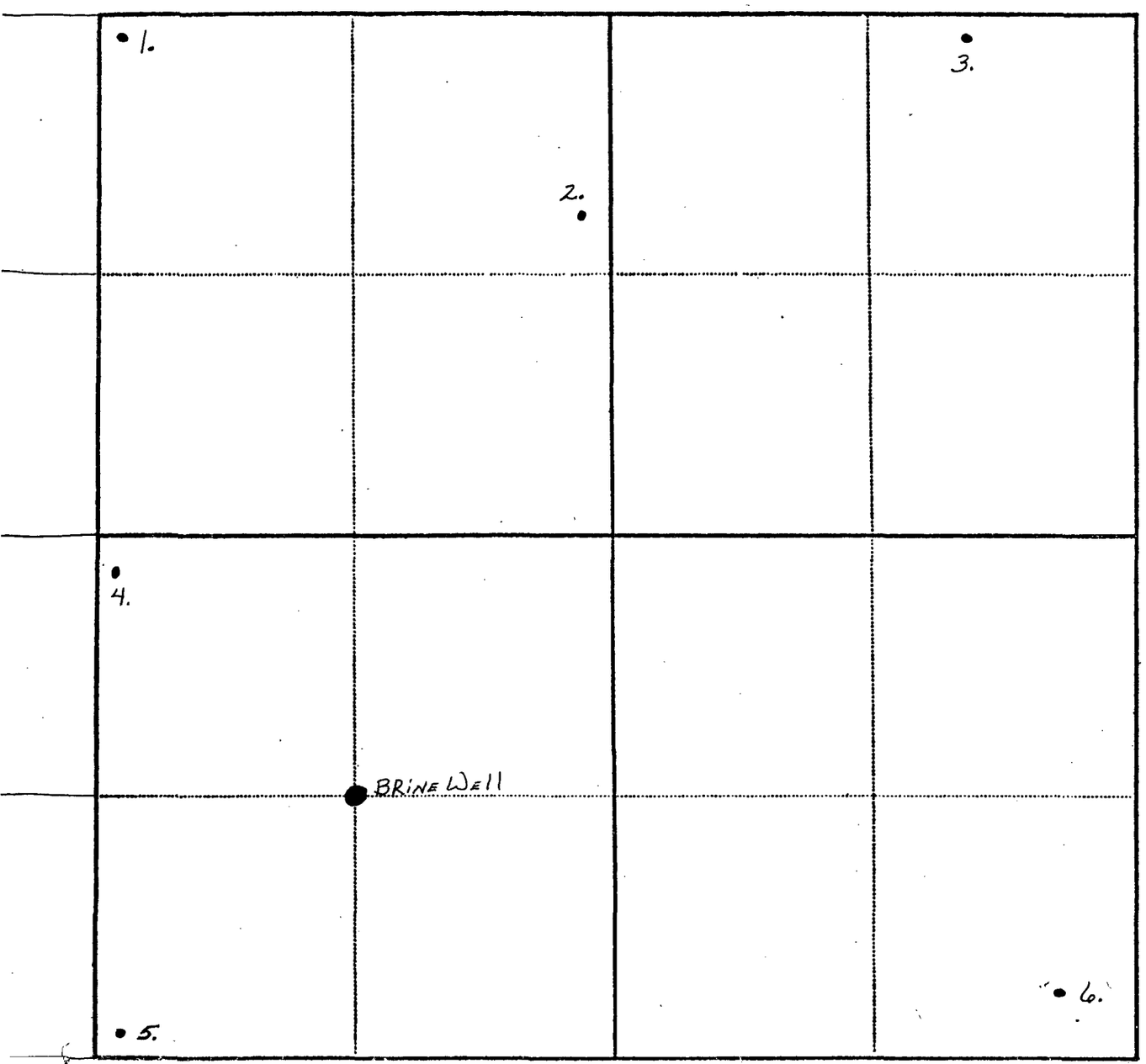
6. Depth to and lithological description of rock at the base of the alluvium below our discharge site can be seen in sample on page 3 .

Part 5

Plugging and abandoment are shown on page 9 .

Quality BRINE
Tatum, N.M.

Sec. 20 Township No. 12 of Range No. 36

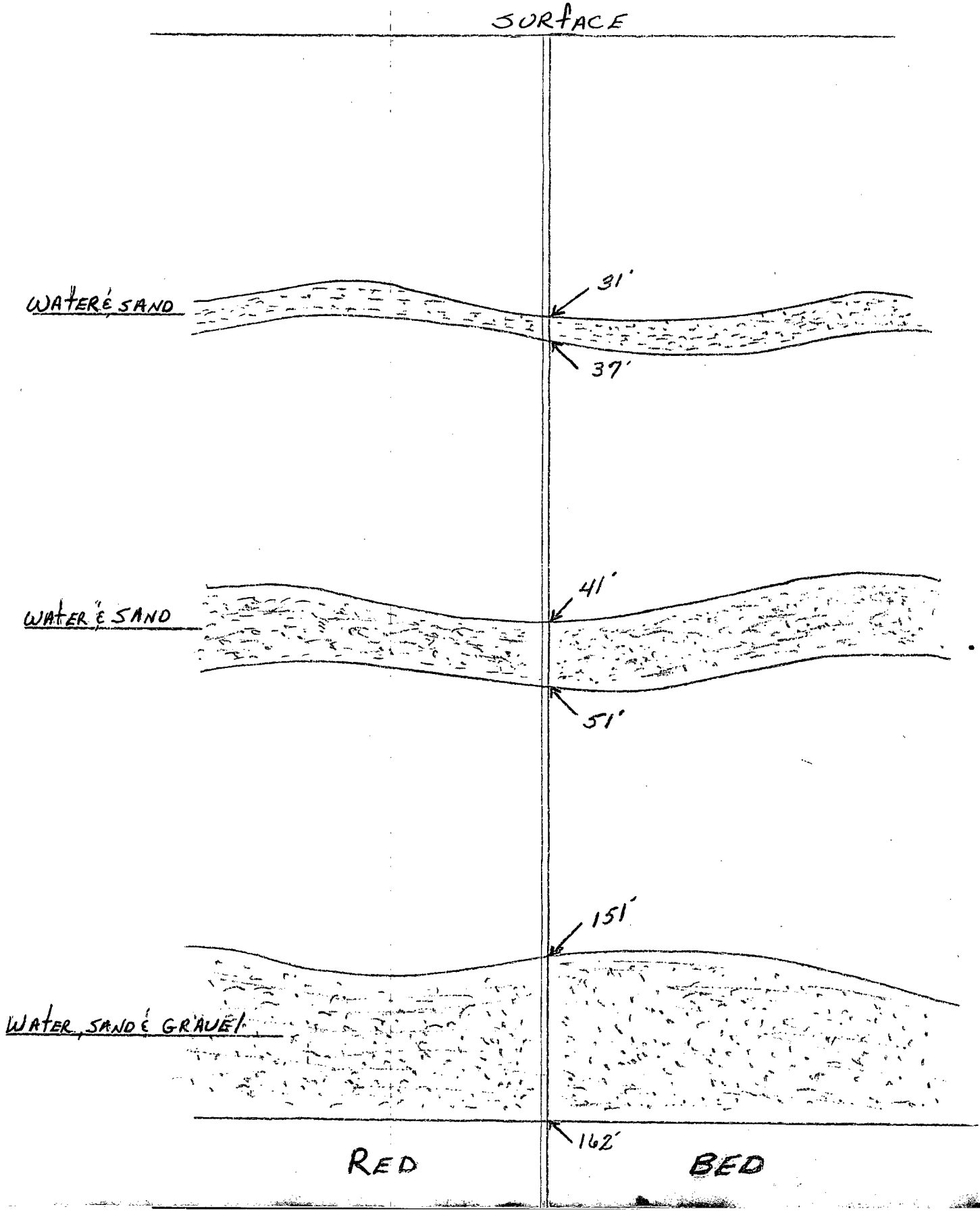


WATER WELLS

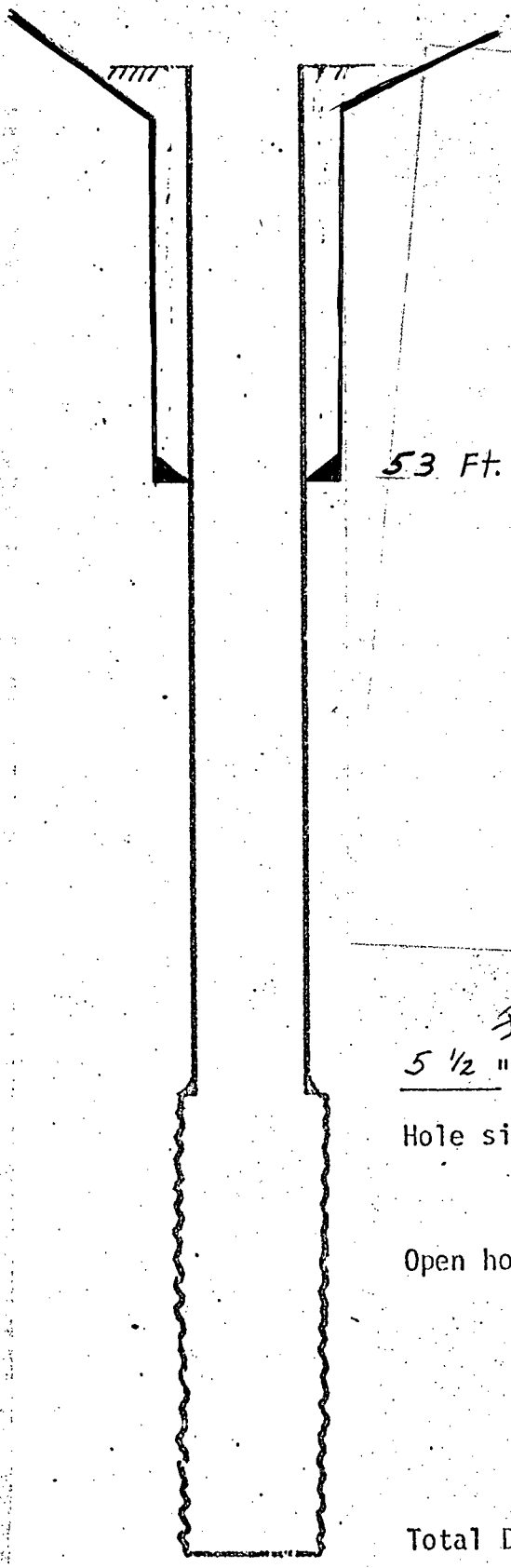
1. ALLEN BENSON
2. WESTERN OIL - PERMIAN CORP.
3. ROY TILLMAN
4. AL GRIFFIN
5. BUCKEYE GAS PRODUCTS
6. DANNY WATSON

FL-5

Quality BRINE
TATUM, N.M.



OPERATOR		DATE
Quality Brine-Tatum, N.M.		6-1-83
LEASE	WELL No.	LOCATION
Watson	1	S20-T12-R36



53 Ft. 15# 8 5/8 csg. Circulate 50 sx "C" 4% CaCl2 cement.
J or N?

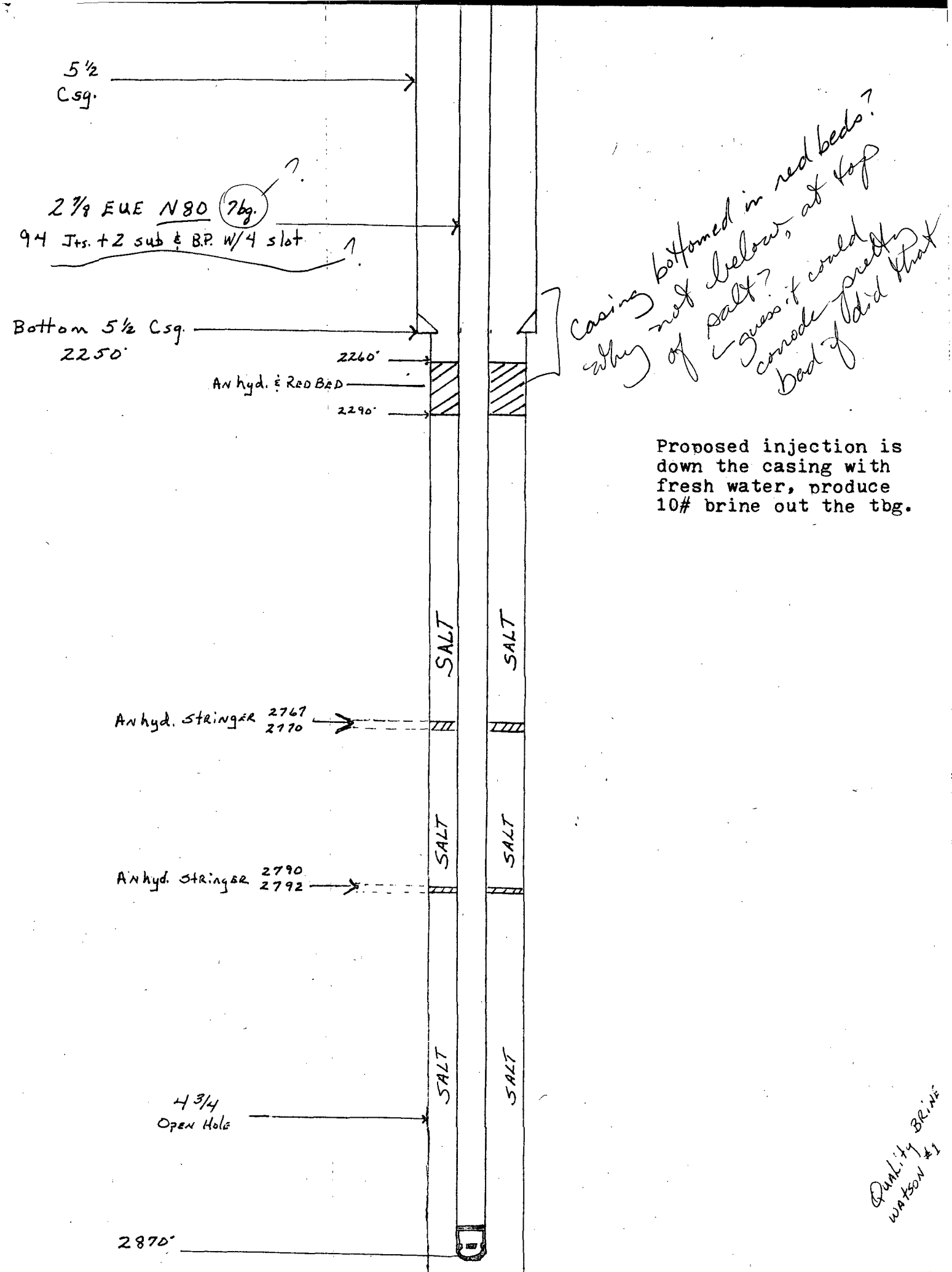
Jor N, 165/ft?

5 1/2 " casing set at 2250 ' with 250 sx of Lite "C" cement

Hole size 7 7/8 "

Open hole from 2249 ' to 2905 ' Hole size 4 3/4 "

Total Depth 2905 '



casing bottomed in red beds? why not below, at top of salt? I guess it could corrode pretty bad if it did that

Proposed injection is down the casing with fresh water, produce 10# brine out the tbg.

Quality BRINE WATSON #1

WESTERN PETROLEUM SERVICES

CEMENTING REPORT

DATE 4-14-83 DISTRICT HOBBS F.R.# L581271

OPERATOR B&E WATSON TREATING

WELL NAME & NUMBER

LOCATION: SEC. BLOCK OR TOWNSHIP SURVEY OR RANGE

COUNTY LEA STATE N.M.

STAGE NUMBER TYPE JOB CONDUCTOR

53'

		Conductor	Surface	Int.	Prod.	Liner
TBG/DP: Size Weight Disp	Size	8 5/8"				
Perforated Interval	Weight	24#				
Pkr. Type Set at	Thread	8RD				
Open Hole Size Formation	Capacity	3.3 BBL				
Stage Collar Type Set at						
Estimated Wash Out %						

Sacks or Bbls.	Composition of Cement and Spacer	Gals/sk H_2O	Weight Lb/Gal	Yield Ft 3	Pump Time Hours	TOTAL Cu. Ft.	TOTAL Bbls.
50	"C" + 4% $CaCl_2$	6.3	14.8	1.32		66	11.7
120	"C" NEAT	6.3	14.8	1.32		158	28

Total Mix H_2O 25.5 Bbls. Total Displacement 2.5 Bbls, Type FRESH WATER Total Products 28 Bbls

Time	Remarks	Rate	Pressure Tubing	Pressure Casing
12:50	6 BBL H_2O TO BREAK CIRCULATION	1.5		150
12:54	START CEMENT (50 SX "C" + 4% $CaCl_2$)	1.5		150 - 250
1:02	STOP CEMENT			
	CEMENT CIRCULATED TO SURFACE,			
	FELL BACK MINUTES LATER.			
1:15	PUMPED 3.5 BBL H_2O TO CLEAR CSG.			
3:23	START H_2O TO BREAK CIRCULATION	1.5-2.5		150-250
3:40	START CEMENT 120 SX "C" NEAT	2		250
3:54	STOP CEMENT, DISPLACE CEMENT			
3:57	TO 12' FROM BOTTOM (2.5 BBL H_2O)	2		250

Break Down At BPM At PSI

Squeezed To PSI Running Hesitation

Reversed out BBL Slurry at PSI

Customer considered service Satisfactory

Unsatisfactory

Max Pressure Differential Press.

Bumped Plug Yes No Pressure to

Cmt. Circ. to surface YES Sacks 20

Float Held Yes No

Shut in with 0 PSI

Customer Rep:

Service Supervisor MARK COOK

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052-1451

WESTERN PETROLEUM SERVICES

CEMENTING REPORT

DATE 7-17-83 DISTRICT Hobbs N.M. F.R.# 580886

OPERATOR B+E Watson Drilling

WELL NAME & NUMBER Salt Water Disposal

LOCATION: SEC. ______ BLOCK OR TOWNSHIP ______ SURVEY OR RANGE ______

COUNTY Lea STATE New Mexico

STAGE NUMBER ______ TYPE JOB L/S

TBG/DP: Size ______ Weight ______ Disp ______

Perforated Interval ______

Pkr. Type ______ Set at ______

Open Hole Size ______ Formation ______

Stage Collar Type ______ Set at ______

Estimated Wash Out ______ % ______

	Conductor	Surface	Int.	Prod.	Liner
Size				5 1/2	
Weight				17#	
Thread				8rd	
Capacity				52.2	
Depth				2249	

Sacks or Bbls.	Composition of Cement and Spacer	Gals/sk H_2O	Weight Lb/Gal	Yield Ft 3	Pump Time Hours	TOTAL Cu. Ft.	TOTAL Bbls.
250	Pacesetter Lite 'C' + 1/4#/sk Cello Seal	10.9	12.4	2.0	2.5	500	87.05
200	Premium Cement 'C' + 2% Calcium Chloride + 1/4#/sk Cello Seal	6.3	14.8	1.32	3.0	264	47

Total Mix H_2O 94 Bbls. Total Displacement 51.3 Bbls, Type H_2O Total Products 145.3 Bbls

Time	Remarks	Rate	Pressure Tubing	Pressure Casing
2425	Circulate ahead (10 barrels)	6		250
2430	Start cement	6		250
2440	Start tail cement	6		300
2445	Shut down	—		—
2446	Wash out to pit	3		100
2449	Start displacement	6		500 to 1250
2100	Pumped plug			

Break Down At ______ BPM At ______ PSI

Squeezed To ______ PSI Running ______ Hesitation ______

Reversed out ______ BBL Slurry at ______ PSI

Customer considered service ______ Satisfactory

______ Unsatisfactory

Customer Rep: ______

Max Pressure 5000 Differential Press. 661.4

Bumped Plug [✓ Yes] No ______ Pressure to 1500

Cmt. Circ. to surface yes Sacks 6

Float Held [✓ Yes] ______ No

Shut in with — PSI

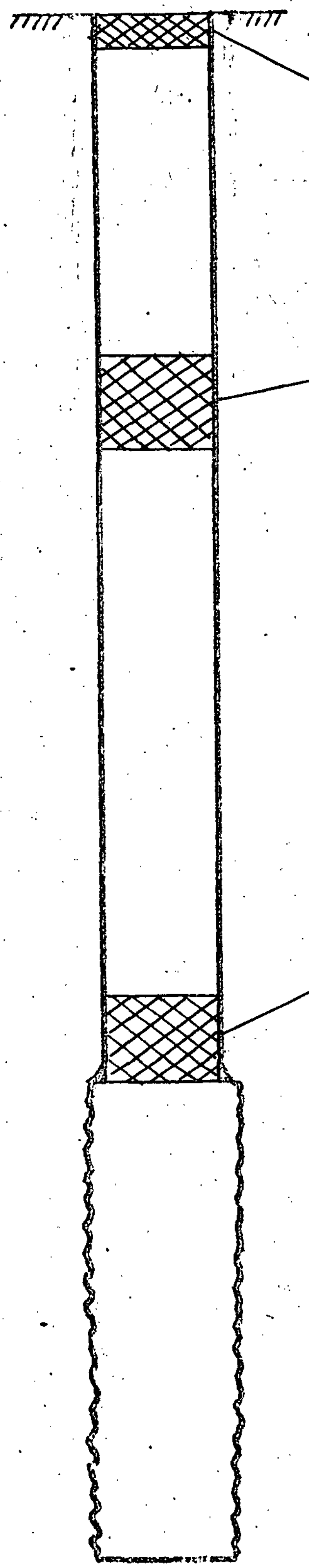
Service Supervisor [illegible]

52-1451

South 4

Quality Brine
Tatum, N.M.

OPERATOR Quality Brine-Tatum, N.M.			DATE 6-1-83
LEASE Watson	WELL No. 1	LOCATION S20-T12-R36	



10 sx surface Plug

100 Ft. Plug At Top of Red Bed.

100 Ft. Plug At Top of Salt.

plugging plan — fill cavity w/ salt. fill w/ brine, casing w/ cement plug above

______" casing set at ______' with ______ sx of ________ cement

Hole size ______"

Open hole from ______' to ______' Hole size ______"

Total Depth ______'

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: ALLEN BENSON Well No. _____

Land Status: State ____ Federal ____ Fee X

Well Location: Unit Letter ____, Section ____, T____S, R____E

Type Well: sub-pump water well Depth ____ feet.

Well Use: Domestic

Sample Number: _____ Date Taken: 4-21-83

Taken By: Eddie Seay

Specific Conductance: _____ m/ɔ

Total dissolved Solids: _____ PPM.

Chlorides: 99.4 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 4-25-83 By: Eddie W Sea
Oil Conservation Division

REMARKS: 25 ml 142 x .7 = 99.4 ppm

Water well located 100 yards SW of Watson brine well (approx.)

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: WESTERN OIL Well No. _____

Land Status: State ____ Federal ____ Fee X

Well Location: Unit Letter ____, Section ____, T____S, R____E

Type Well: Sub-pump water well Depth _____feet.

Well Use: Domestic

Sample Number: _____ Date Taken: 4-21-83

Taken By: Eddie Seay

Specific Conductance: _____ m/s

Total dissolved Solids: _____ PPM.

Chlorides: 113.6 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 4-25-83 By: Eddie W Seay
Oil Conservation Division

REMARKS:

25 ml 142 x .8 - 113.6 ppm

Water well located approximately 75 yards west of Watson brine well.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: MR. TILLMAN Well No. _____

Land Status: State ____ Federal ____ Fee X

Well Location: Unit Letter ____, Section ____, T____S, R____E

Type Well: sub-pump water well Depth ____ feet.

Well Use: Domestic

Sample Number: _____ Date Taken: 4-21-83

Taken By: Eddie Seay

Specific Conductance: _____ m/ɾ

Total dissolved Solids: _____ PPM.

Chlorides: 71 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 4-25-83 By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .5 = 71 ppm

Well located approx 100 yards NW of Watson brine well.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: AL GRIFFIN Well No. _____

Land Status: State _____ Federal _____ Fee _____

Well Location: Unit Letter _____, Section _____, T____S, R____E

Type Well: Sub-pump water well Depth _____ feet.

Well Use: Domestic

Sample Number: _____ Date Taken: 4-21-83

Taken By: Eddie Seay

Specific Conductance: _____ m/n

Total dissolved Solids: _____ PPM.

Chlorides: 113.6 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 4-25-83 By: Eddie W Seay
Oil Conservation Division

REMARKS:

25 ml 142 x .8 = 113.6 ppm chlorides

Water well located approximately 75 yards SW of Watson brine well.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: WATSON Well No. _____

Land Status: State ____ Federal ____ Fee X

Well Location: Unit Letter ____, Section 20, T 12 S, R 36 E

Type Well: sub-pump water well Depth _____ feet.

Well Use: brine supply well

Sample Number: _____ Date Taken: 4-21-83

Taken By: Eddie Seay

Specific Conductance: _____ m/s

Total dissolved Solids: _____ PPM.

Chlorides: 28.4 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 4-25-83 By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .2 = 28.4 ppm

Water well located approximately 75 yards NE of brine well.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership: Buckeye Gas Products Well No. _____

Land Status: State ____ Federal ____ Fee X

Well Location: Unit Letter ____, Section ____, T____S, R____E

Type Well: Sub-Pump Water Well Depth _____ feet.

Well Use: Domestic

Sample Number: 1 Date Taken: 4-21-83

Taken By: Eddie W Sean

Specific Conductance: _____ m/n.

Total dissolved Solids: _____ PPM.

Chlorides: 184.6 PPM.

Sulfates: _____ PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

_____ : _____

Date Analyzed: 4-28-83 By: Eddie W Sean
Oil Conservation Division

REMARKS: 25ml. 142 X 1.3 - 184.6

Well Located Approx 100 yd SE of Watson Brine Well.

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NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
B & E Inc. WATSON TREATING PLANT, INC.	WATSON ~~BRINE WELL~~	1

Unit Letter	Section	Township	Range	County
M	20	12 SOUTH	36 EAST	LEA

Actual Footage Location of Well:
593 feet from the SOUTH line and 639 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
	Salt		Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

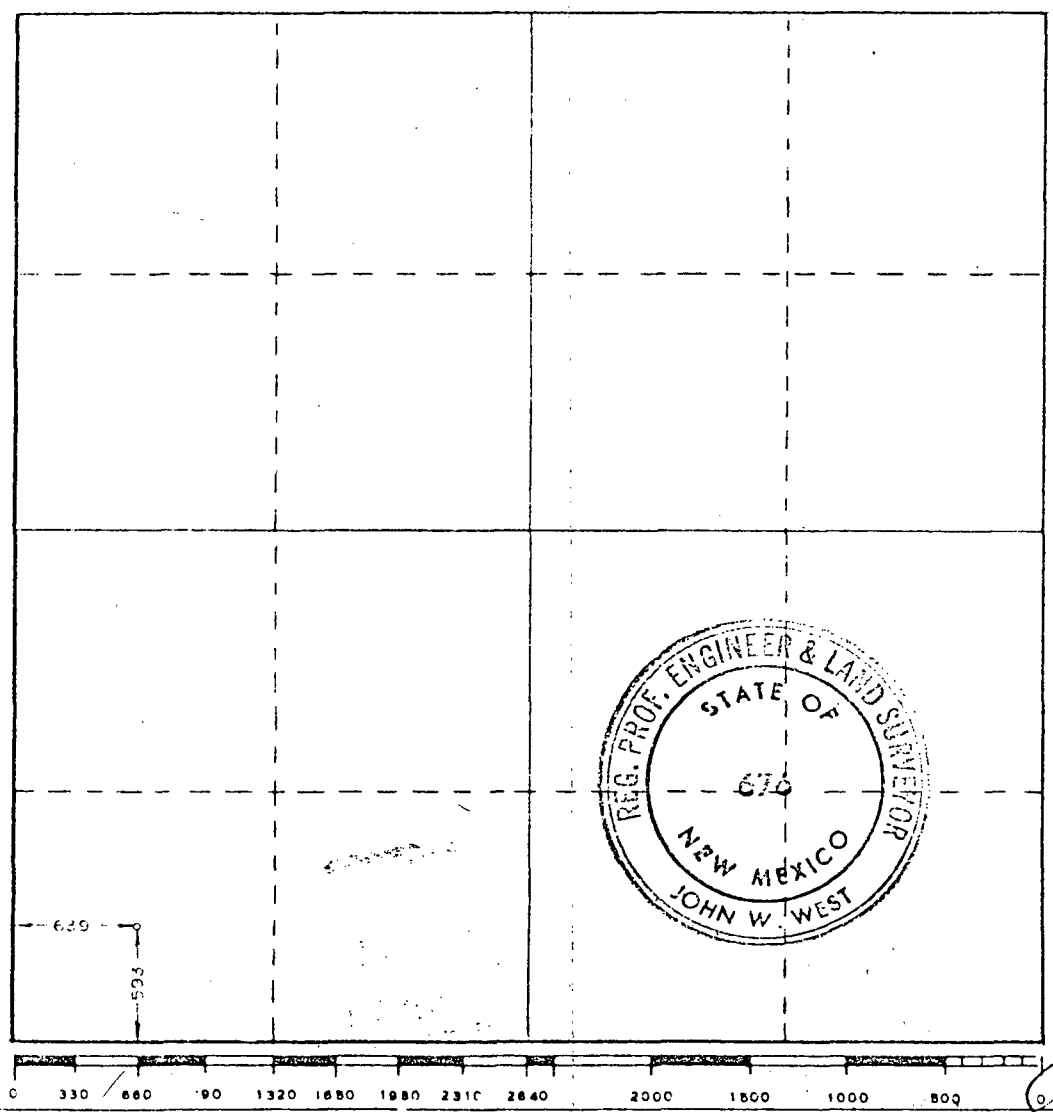
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: B&E Inc. & Watson Treating Plant Inc.
Danny R. Watson

Position: Agent

Company:

Date: 2-24-83

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: 2/18/83

Registered Professional Engineer and/or Land Surveyor
John W West

Certificate No: JOHN W. WEST NO. 676

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