BW - 25

GENERAL CORRESPONDENCE

YEAR(S):

2007 → 1993

Chavez, Carl J, EMNRD

From: Prather, Steve [Steve.Prather@basicenergyservices.com]
Sent: Tuesday, May 22, 2007 8:47 AM
To: Chavez, Carl J, EMNRD
Subject: RE: Basic Energy Services, LP Discharge Plan (BW-25) Salado Brine Well #2 (API#30-025-32394) UL:A 20-25s-37E, Lea County

Mr. Chavez,

The oil spill out of the wash out pit was picked up and put on the drying pad to be hauled to a Licensed disposal facility. New calchie was put in place. Chemical drum improperly stored was put in primary containment and set into secondary containment.Old tanks were sold and hauled off. Trash and old drums were hauled to landfill. Remainder of location was cleaned.

Please contact me if you need any additional information. Thank You.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Thursday, April 19, 2007 3:00 PM
To: Prather, Steve
Cc: Price, Wayne, EMNRD
Subject: RE: Basic Energy Services, LP Discharge Plan (BW-25) Salado Brine Well #2 (API#30-025-32394) UL:A 20-25s-37E, Lea County

Mr Prather:

Please send a cleanup report for the facility by May 30, 2007, and I will inspect the facility to verify cleanup and the contents of the report.

Please contact me if you have questions. Thank you.

From: Prather, Steve [mailto:Steve.Prather@basicenergyservices.com]
Sent: Wednesday, March 28, 2007 9:47 AM
To: Chavez, Carl J, EMNRD
Cc: Wigington, Lynn
Subject: Basic Energy Services, LP Discharge Plan (BW-25) Salado Brine Well #2 (API#30-025-32394) UL:A 20-25s-37E, Lea County

Carl,

I am in the process of cleaning up the spills and recycling old tanks,drums and debris on site. We are also in the process of receiving bids on refurbishing the entire facility and automating with a card system allowing us to open to the public. We will also have cameras to monitor the site. Let me know if there is anything else I may need to do.

Sincerely,

Steve Prather

BASIC energy services

Steve Prather

Area Manager

Eunice, NM 88231

505-394-3235

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

March 13, 2007

Ms. Sarah Lovett
Basic Energy Services, LP
P.O. Box 10460
Midland, Texas 79702

Re: Basic Energy Services, LP Discharge Plan (BW-25)
Salado Brine Well #2 (API# 30-025-32394)
UL:A 20-25S-37E, Lea County

Dear Ms. Lovett:

The New Mexico Oil Conservation Division (OCD), Environmental Bureau inspected the above brine well discharge plan facility on December 19, 2006.

Based on our inspection (see photos below) and file records, the OCD noticed the following deficiencies to your discharge plan:

1. There is a wash out pit west of the tank battery with oil over flow on the ground.
2. Oil spill noticed from the frac tank washout onto the ground.
3. Drums containing chemicals are outside of the secondary containment area and secondary containment area must comply with the discharge plan provisions.
4. Trash (old tanks, drums, debris on site) needs to be cleaned up and removed from the site. Tanks may be recycled.

Please provide me with a schedule within the next 30 days or by April 13, 2007, for facility activities to correct the above deficiencies so I may be present to witness the corrective actions.

Please contact me at (505-476-3491) or E-mail carlj.chavez@state.nm.us if you have questions. Thank you.

Sincerely,

Mr. Carl J. Chavez
Environmental Engineer

xc: OCD District Office

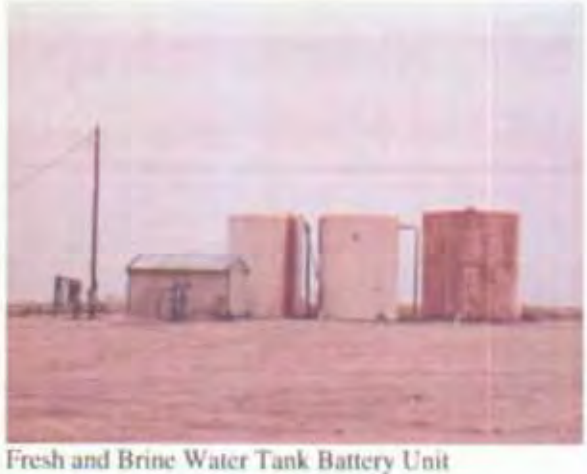
Former Chaparral Service, Inc. Facility now Basic Energy Services, LP.


Wash out Pit West of Tank Battery


Oil Spill Over Flow Out of Wash Out Pit

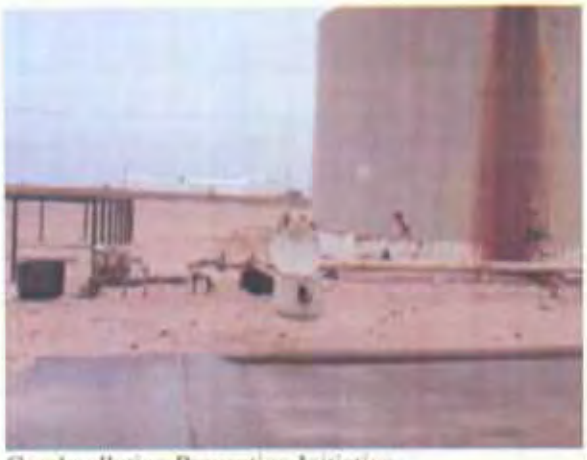

Tank Battery


Oil Spill Over Flow Out of Wash Out Pit- (looking south)


Fresh and Brine Water Tank Battery Unit

Tank Battery 10# Brine Load Out Area

Drum of Methanol Improperly Stored



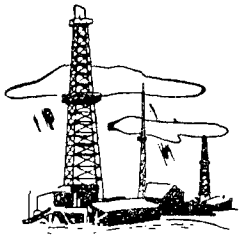
Good pollution Prevention Initiative

Trash including tanks, drums, debris in background

Improper secondary containment and drum storage area

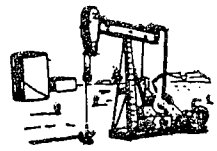
Trash on ground and trailer park next door to site

Salado Brine Well #2 (API# 30-025-32394)
BW-25



YARBROUGH OIL
LIMITED PARTNERSHIP

P.O. BOX 1769
EUNICE, NEW MEXICO 88231



February 12, 2007

Basic Energy Services, L.P.
P. O. Box 10460
Midland, Texas 79702

Re: P & S Brine Sales, L.P. Permit (BW-002)
Chaparral SWD, L.P. Permit (BW-025)

Dear Ms. Lovett:

The Discharge Plan permits referenced above were personally delivered to Rowe Patterson and the attorney present at the August 15, 2006 closing of the sale of these two companies. It was required for the closing that all these documents be in hand.

Since this time, any documentation needed has been hand delivered to Steve Prather.

If there are other questions concerning these permits, please contact me at Yarbrough Oil Company, L.P.

Sincerely,

Paul Prather

2007 FEB 15 AM 10 34

OCD CERTIFICATION

Basic Energy Services (BES) hereby accepts the terms and conditions of the attached Chaparral SWD discharge plan permit (BW-025) and agrees to comply with the terms and conditions. BES acknowledges that the Oil Conservation Division (OCD) may change the terms and conditions for good cause shown as necessary to protect fresh water, human health, and the environment. The undersigned also attests to the fact that he or she understands 19.15.1.41 NMAC which states "Any person who conducts any activity pursuant to a permit, administrative order or other written authorization or approval from the division shall comply with every term, condition and provision of such permit, administrative order, authorization or approval."

Accepted.

Basic Energy Services
400 West Illinois, Suite 800
Midland, Texas 79701

Signature _____ Title President & CEO Date _____

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

January 13, 2004

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 9925

Mr. Paul Prather
Chaparral Service, Inc. dba Salado Brine Well #2
P.O. Box 7169
Eunice, NM 88231

Re: Discharge Permit BW-025 Renewal
Salado Brine Sales No. 2 Brine Station
NE/4 NE/4 Section 20-Ts25S-R37E
Lea County, New Mexico

Dear Mr. Prather:

The groundwater discharge permit renewal application for the Chaparral Service, Inc. (CSI) dba Salado Brine Well #2 Brine Station BW-025 operated by CSI located in NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within ten working days of receipt of this letter.**

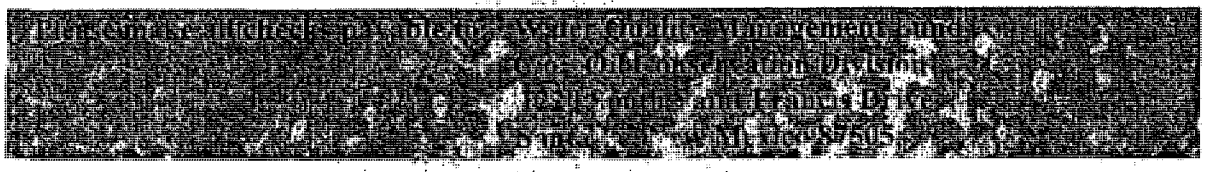
The original discharge permit was approved on September 01, 1993 and subsequently modified on March 07, 1994 with an expiration date of September 01, 1998. The discharge permit renewal application, including attachments, dated July 2003 submitted pursuant to Section 20.6.2.5101 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals. The discharge permit renewal application was submitted pursuant to Section 5101 of the New Mexico Water Quality Control Commission (WQCC) Regulations. The discharge permit is renewed pursuant to Section 5101 and 3109.C. Please note Section 3109.G., which provides for possible future amendment of the permit. Please be advised that approval of this permit does not relieve CSI of liability should operations result in pollution of surface or ground waters, or the environment.

Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104. of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to Section 3107.C., CSI is 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 3109.H.4., this approval is for a period of five years. **This approval will expire September 01, 2008** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 5101.F. of the regulations, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge permit facilities will be required to submit permits for, or the results of, an underground drainage testing program as a requirement for discharge permit renewal.

The discharge permit application for the CSI Brine Station is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge permit will be assessed a fee equal to the filing fee of $100 plus a flat fee of $1700.00 for brine stations.



If you have any questions, please contact Wayne Price of my staff at (505-476-3487). On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief
RCA/lwp
xc: OCD Hobbs Office

ATTACHMENT TO THE DISCHARGE PERMIT BW-025 APPROVAL
CSI Brine Station Salado #2 (BW-025)
DISCHARGE PERMIT APPROVAL CONDITIONS
January 13, 2004

1. Payment of Discharge Permit Fees: The $100.00 filing fee has been received by OCD. The $1700.00 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the permit, with the first payment due upon receipt of this approval.

2. Commitments: Chaparral Services, Inc. will abide by all commitments submitted in the discharge permit application, subsequent information supplied and these conditions for approval.

3. Production Method: Fresh water will be injected down the casing and brine shall be recovered up the tubing. Reverse flow will be allowed only once a month for up to 24 hours for clean out.

4. Maximum Injection Pressure: The maximum operating injection and/or test pressure at the well head will be such that the fracture pressure of the injection formation will not be exceeded and will not cause new fractures or propagate existing fractures or cause damage to the system.

5. Mechanical Integrity Testing: Conduct an annual open to formation pressure test by pressuring up the formation with fluids to one and one-half times the normal operating pressure or 300 psig whichever is greater for four hours. However, no operator may exceed surface injection or test pressures that may cause formation fracturing (see item 4 above) or system failures. Systems requiring test pressures less than 300 psig or methods that use testing media other than fluids, i.e. gas, must be approved by OCD prior to testing. Brine supply wells operating with isolation packers will have to pressure test both the cavern formation and casing/tubing annuals.

   At least once every five years and during well work-overs the cavern formation will be isolated from the casing/tubing annuals and the casing pressure tested at 300 psig for 30 minutes. All pressure tests must be witnessed by OCD.

6. Production/Injection Volumes/Annual Report: The volumes of fluids injected (fresh water) and produced (brine) will be recorded monthly and submitted to the OCD Santa Fe Office in an annual report due on the thirty-first (31) day of January of each year.

7. Analysis of Injection Fluid and Brine: Provide an analysis of the injection fluid and brine with each annual report. Analysis will be for General Chemistry (Method 40 CFR 136.3) using EPA methods.

8. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

9. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

10. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.

11. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

12. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

13. Below Grade Ponds/Pits/Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All below grade tanks, sumps and pits must be tested annually, except systems that have secondary containment with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Results of tests and inspections shall be maintained at the facility covered by this discharge plan and available for

NMOCD inspection. Any system found to be leaking shall be reported pursuant to Item # 18. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

14. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

15. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

16. Well Work Over Operations: OCD approval will be obtained from the Director prior to performing remedial work, pressure test or any other Work over. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103.A.) with appropriate copies sent to the OCD Hobbs District Office.

17. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent overtopping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery. A record of inspections will be retained on site for a period of five years.

18. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Hobbs District Office.

19. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division.

20. Transfer of Discharge Permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.

21. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

22. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections. Recent pressure tests, witnessed by OCD, showed that the brine well has a very small leak. This leak is less than 10% and its location has not been determined by the operator using standard testing practices. Therefore, OCD will require that a groundwater monitoring well be installed as specificed in item # 25 below.

23. Storm Water : Stormwater runoff controls shall be maintained. As a result of operations, if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off, then immediate actions shall be taken to mitigate the effects of the run-off, notify the OCD within 24 hours, and modify the discharge permit to include a formal stormwater run-off containment permit and submit for OCD approval within 15 days.

24. Capacity/ Cavity Configuration and Subsidence Survey: The operator shall provide information on the size and extent of the solution cavern and geologic/engineering data demonstrating that continued brine extraction will not cause surface subsidence, collapse or damage to property, or become a threat to public health and the environment. This information shall be supplied in each annual report. OCD may require the operator to perform additional well surveys, test, and install subsidence monitoring in order to demonstrate the integrity of the system. If the operator cannot demonstrate the integrity of the system to the satisfaction of the Division then the operator may be required to shut-down, close the site and properly plug and abandoned the well.

25. Groundwater Monitor Well Installation Required OCD will require that a groundwater monitoring well be installed and located in close proximity to and along the local groundwater flow direction and directly down gradient of the brine well and washout pit. This monitor well shall be constructed, developed, purged and samples analyzed pursuant to approved EPA methods. The monitor well shall be sampled and analyzed for BTEX and general chemistry twice a year with the results submitted in the annual report. This well shall be completed within 30 days of this approval. Discovery of any groundwater contamination shall be reported pursuant to Item #18 above.

26. Wash-out Pit: A minimum freeboard of one foot will be maintained in the pit so that no overtopping of occurs. Any repairs or modifications to the pit must receive prior OCD approval.

Washout Pit Leak Detection: The leak detection monitor well for the washout pit will be inspected monthly. Records will be maintained to include quantity of fluids, conductivity and chlorides of fluid, any oil sheen present, date of inspection, and name of inspector. Leaks shall be reported pursuant to Item 18. (Spill Reporting) of these conditions.

Note: During the last last two inspections OCD noted that the leak detection was in need of repair and there was standing fluid noted in the well. Please remove all liquids form the well and start the monitoring program as noted above. Please repair and notify OCD within 30 days of this approval of the status of this system.

27. Well Work over Operations: OCD approval will be obtained prior to performing remedial work, pressure test or any other work over. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103.A.) with appropriate copies sent to the OCD Hobbs District Office.

28. Certification: **Chaparral Services, Inc. dba Salado Brine Well #2** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **Chaparral Services, Inc. dba Salado Brine Well #2** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **Chaparral Services, Inc. dba Salado Brine Well #2**

_____
Company Representative- print name

_____ Date_____
Company Representative- Sign

Title_____

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1 Sender's Federal Express Account Number: 2136706 / 1 — Date: 2-13-07

From (Your Name) Please Print: Steve Prather — Your Phone Number (Very Important): 505 394-3304
Company: Basic Energy Services — Department/Floor No.
Street Address: 1603 Ave O
City: Eunice — State: NM — ZIP Required: 88231

2 To (Recipient's Name) Please Print: Sara Lovett — Recipient's Phone Number (Very Important): 432-620-5528
Company: Basic Energy Services — Department/Floor No.
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 400 W Illinois, Ste 800
City: Midland — State: TX — ZIP Required: 79702

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.): Discharge Permits/P+S & SWD

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City — State — ZIP Required

3 PAYMENT
1 [X] Bill Sender Acct No. Req'd
2 [ ] Bill Recipient's FedEx Acct. No. Fill in Account Number below
3 [ ] Bill 3rd Party FedEx Acct. No. Fill in Account Number below (req'd.)
4 [ ] Bill Credit Card Fill in Credit Card No. below (req'd)
5 [ ] Cash/Check
Acct./Credit Card No. — Exp Date

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)	Standard Overnight (Delivery by next business afternoon†)
11 [ ] YOUR PACKAGING	51 [ ] YOUR PACKAGING
16 [ ] FEDEX LETTER *	56 [ ] FEDEX LETTER *
12 [ ] FEDEX PAK *	52 [X] FEDEX PAK *
13 [ ] FEDEX BOX	53 [ ] FEDEX BOX
14 [ ] FEDEX TUBE	54 [ ] FEDEX TUBE
Economy Two-Day (Delivery by second business day†)	**Government Overnight** (Restricted for authorized users only)
30 [ ] ECONOMY	46 [ ] GOV'T LETTER
	41 [ ] GOV'T PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT ** (Confirmed reservation required)
80 [ ] TWO-DAY FREIGHT **
† Delivery commitment may be later in some areas.
* Declared Value Limit $100
** Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)
1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [ ] DELIVER WEEKDAY
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE ___ Lbs
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]
11 [ ]
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6 PACKAGES — WEIGHT In Pounds Only — YOUR DECLARED VALUE (See right)
Total — Total — Total

DIM SHIPMENT (Chargeable Weight) ___ lbs
X ___ Y ___
Received At
1 [ ] Regular Stop 3 [ ] Drop Box
2 [ ] On-Call Stop 4 [ ] B.S.C. 5 [ ] Station
FedEx Emp. No.

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In the event of untimely delivery, Federal Express will at your request and with some limitations, refund all transportation charges paid. See Service Guide for further information.

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REVISION DATE 4/91
FORMAT #082
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Lovett, Sara

From: Chavez, Carl J, EMNRD [CarlJ.Chavez@state.nm.us]
Sent: Tuesday, January 23, 2007 10:49 AM
To: Lovett, Sara
Cc: Jones, Brad A., EMNRD; Phillips, Dorothy, EMNRD
Subject: BW Transfers, Certificates & Correspondence between Transferor and Transferee
Attachments: OCD CERTIFICATION.doc

Dear Ms. Lovett:

Re: Basic Energy Services, L.P. Class III Brine Wells Bond Transfer Request

It has come to the Oil Conservation Division (OCD), Environmental Bureau's (EB) attention that Basic Energy Services (BES) has acquired or is acquiring the P&S Brine Sale LP (BW-2: API# 30-025-26884) and Chaparral SWD Class III Brine Wells (BW-25: API# 30-025-32394) from Chaparral. Please contact Dorothy Phillips of the OCD at (505) 476-3461 to discuss the process for e-Permitting and on-line transfer of ownership. This is the initial step in the OCD bond transfer process.

The OCD-EB is responsible for discharge plan permits and applicable bonds for Class I Disposal, Class III Brine Wells, and treatment facilities. If there are any other OCD permitted and bonded facilities or wells that are not Class I and III Wells, then you need to contact Ms. Dorothy Phillips of the OCD at (505) 476-3461 to determine if the on-line transfer process will also be required for treatment facilities. In order for the OCD to transfer ownership and release the Chaparral bond on the above brine wells from Chaparral SWD and P & S Brine Sales to BES under the new name, the OCD requires the original BES bonds or Ryders for each Brine Well or facility for its files and certifications with signature from BES confirming that it accepts the terms and conditions of the existing BW-2 and BW-25 discharge plan permits. Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of a facility with a discharge permit, the transferor shall notify the transferee in writing of the existence of the discharge permit, and shall deliver or send by certified mail to the department a copy of such written notification, together with a certification or other proof that such notification has in fact been received by the transferee.

Please sign and return the attached certificates with correspondence from the transferor to the transferee indicating the existence of a discharge permit for each brine well with your revised text to me if BES accepts the above conditions within 14 days of the above date. In addition, the original BES bonds for the above brine wells are required for the OCD files and to approve the bond transfer. If the OCD-EB does not e-file, receive the original bonds, and signed certificates for the P&S Brine Sale LP and Chaparral SWD from BES, the OCD cannot transfer ownership and/or release any existing Chaparral bonds.

An Internet link to the Underground Injection Control Manual (http://www.emnrd.state.nm.us/OCD/documents/UICManual.pdf) is provided for you to consider all aspects of the transfer of ownership and bonding requirements for Class III brine wells in New Mexico. In addition, I have attached the "WQCC Transfer of Discharge Permit Regulations" for your consideration in this process.

Basic Energy Services still needs to complete the on-line transfer for the P&S Brine Services transfer. Please find attached the certificates associated with the Chaparral and P&S Services Brine Wells for your modification, signature and submittal. I cannot approve the transfer with Ryders until I receive the certificates

with correspondence between the transferor to transferee acknowledging the discharge permit for the brines wells. In addition, I am following up on Bond: RLB0006201 (State Land Office- will hand deliver and provide your contact info. for questions, since the bond is not an OCD bond) and Bond: RLB0001564 (may be another BW on the Chaparral Brine Well Property, but still looking into this one).

Brad Jones (OCD) at (505) 476-3487 will be handling the facility bond and will contact you to apprise you of the requirements for the $25K Ryder for the Chaparral Treatment Facility. The on-line transfer process may be similar and he will identify any additional correspondence and/or certifications that may be required for the facility.

Please find below WQCC and OCD transfer regulations below to consider for this process.

WQCC Transfer of Discharge Permit Regulations

20.6.2.3104 DISCHARGE PERMIT REQUIRED: Unless otherwise provided by this Part, no person shall cause or allow effluent or leachate to discharge so that it may move directly of indirectly into ground water unless he is discharging pursuant to a discharge permit issued by the secretary. When a permit has been issued, discharges must be consistent with the terms and conditions of the permit. In the event of a transfer of the ownership, control, or possession of a facility for which a discharge permit is in effect, the transferee shall have authority to discharge under such permit, provided that the transferee has complied with Section 20.6.2.3111 NMAC, regarding transfers.

[2-18-77, 12-24-87, 12-1-95; Rn & A, 20.6.2.3104 NMAC - 20 NMAC 6.2.III.3104, 1-15-01; A, 12-1-01]

20.6.2.3111 TRANSFER OF DISCHARGE PERMIT: No purported transfer of any discharge permit shall be effective to create, alter or extinguish any right or responsibility of any person subject to this Part, unless the following transfer requirements are met:

A. Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of a facility with a discharge permit, the transferor shall notify the transferee in writing of the existence of the discharge permit, and shall deliver or send by certified mail to the department a copy of such written notification, together with a certification or other proof that such notification has in fact been received by the transferee.

B. Upon receipt of such notification, the transferee shall have the duty to inquire into all of the provisions and requirements contained in such discharge permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the department's file or files concerning such discharge permit.

C. Until both ownership and possession of the facility have been transferred to the transferee, the transferor shall continue to be responsible for any discharge from the facility.

D. Upon assuming either ownership or possession of the facility, the transferee shall have the same rights and responsibilities under the discharge permit as were applicable to the transferor.

E. Nothing in this section or in this part shall be construed to relieve any person of responsibility or liability for any act or omission which occurred while that person owned, controlled or was in possession of the facility.

[2-18-77, 12-24-87, 12-1-95, 11-15-96; 20.6.2.3111 NMAC - Rn, 20 NMAC 6.2.III.3111, 1-15-01; A, 12-1-01]

20.6.2.5101 DISCHARGE PERMIT AND OTHER REQUIREMENTS FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELLS AND CLASS III WELLS:

H. Transfer of Class I non-hazardous waste injection well and Class III well Discharge Permits.

(1) The transfer provisions of Section 20.6.2.3111 NMAC do not apply to a discharge permit for a Class I non-hazardous waste injection well or Class III well.

(2) A Class I non-hazardous waste injection well or Class III well discharge permit may be transferred if:

(a) The secretary receives written notice 30 days prior to the transfer date; and

(b) The secretary does not object prior to the proposed transfer date. The secretary may require modification of the discharge permit as a condition of transfer, and may require demonstration of adequate financial responsibility.

(3) The written notice required by Subparagraph (b) of Paragraph (2) of Subsection I above shall:

(a) Have been signed by the discharger and the succeeding discharger, including an acknowledgement that the succeeding discharger shall be responsible for compliance with the discharge permit upon taking possession of the facility; and

(b) Set a specific date for transfer of discharge permit responsibility, coverage and liability; and

(c) Include information relating to the succeeding discharger's financial responsibility required by Paragraph (17) of Subsection B of Section 20.6.2.5210 NMAC.

Please contact me at (505) 476-3491 or via E-mail (CarlJ.Chavez@state.nm.us) if you have questions. Thank you.

Sincerely,

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3491
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/
(Pollution Prevention Guidance is under "Publications")

Price, Wayne

From: Price, Wayne
Sent: Monday, May 23, 2005 9:46 AM
To: Eddie Seay (E-mail); Paul Prather (E-mail)
Cc: Sheeley, Paul; Johnson, Larry
Subject: Salado Brine sales BW-025 minor modification

Dear Mr. Prather and Seay:

OCD is in receipt of the December 06, 2004 action plan for the above referenced facility. OCD hereby approves of the plan with the following conditions:

1. OCD recommends that the proposed monitor well be installed near the southwest corner of the wash-out pit drying pad.

2. The new monitor well shall be developed, purged and sampled pursuant to approved EPA methods. A geologic/lithologic log and well completion diagram for the well shall be provided. The sample shall be initially analyzed for BTEX (8021) and general chemistry. After initial sampling this well shall be sampled twice a year including the other four wells previously approved. These results shall be submitted in the annual report.

3. Salado will notify the OCD Santa Fe office and the OCD District office at least 72 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples during OCD's normal business hours.

4. Contamination found in any monitoring point that exceeds the Water Quality Control Commission Regulation (WQCC) groundwater standards shall require immediate corrective action. A corrective action plan shall be submitted within 30 days of discovery.

Please be advised that NMOCD approval of this plan does not relieve Salado Brine Sales of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Salado Brine Sales of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Sincerely:

Wayne Price
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505
505-476-3487
fax: 505-476-3462
E-mail: WPRICE@state.nm.us

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

November 04, 2004

CERTIFIED MAIL
RETURN RECEIPT NO. 7923 1480

Mr. Paul Prather
Chaparral Service, Inc. dba Salado Brine Well #2
P.O. Box 7169
Eunice, NM 88231

Re: Discharge Permit BW-025
Salado Brine Sales No. 2 Brine Station
NE/4 NE/4 Section 20-Ts25S-R37E
Lea County, New Mexico

Subject: ***Notice of Permit Deficiencies***

Dear Mr. Prather:

The New Mexico Oil Conservation Division is in receipt of the mechanical integrity test results conducted on October 26, 2004 for the Salado Brine well No. 2 API# 30-025-32394. The results indicate this well continues to have a small leak. In order for you to continue operations Chaparral Service, Inc. dba Salado Brine Well #2 shall abide by all of the discharge plan permit conditions issued on January 13, 2004.

Please find enclosed a copy of Conditions #25 and #26. As of this date OCD has no records indicating you have completed these action items.

25. Groundwater Monitor Well Installation Required OCD will require that a groundwater monitoring well be installed and located in close proximity to and along the local groundwater flow direction and directly down gradient of the brine well and washout pit. This monitor well shall be constructed, developed, purged and samples analyzed pursuant to approved EPA methods. The monitor well shall be sampled and analyzed for BTEX and general chemistry twice a year with the results submitted in the annual report. This well shall be completed within 30 days of this approval. Discovery of any groundwater contamination shall be reported pursuant to Item #18 above.

26. Wash-out Pit: A minimum freeboard of one foot will be maintained in the pit so that no overtopping of occurs. Any repairs or modifications to the pit must receive prior OCD approval.

Washout Pit Leak Detection: The leak detection monitor well for the washout pit will be inspected monthly. Records will be maintained to include quantity of fluids, conductivity and chlorides of fluid, any oil sheen present, date of inspection, and name of inspector. Leaks shall be reported pursuant to Item 18. (Spill Reporting) of these conditions.

Note: During the last last two inspections OCD noted that the leak detection was in need of repair and there was standing fluid noted in the well. Please remove all liquids form the well and start the monitoring program as noted above. Please repair and notify OCD within 30 days of this approval of the status of this system.

In addition, the OCD has received a complaint from the OCD Hobbs office environmental staff concerning brine water run-off at the site. Please note this is a violation of permit conditions #17, #18 and #23 (enclosed for your reference).

17. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent overtopping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery. A record of inspections will be retained on site for a period of five years.

18. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Hobbs District Office.

23. Storm Water : Stormwater runoff controls shall be maintained. As a result of operations, if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off, then immediate actions shall be taken to mitigate the effects of the run-off, notify the OCD within 24 hours, and modify the discharge permit to include a formal stormwater run-off containment permit and submit for OCD approval within 15 days.

Please provide an action plan for OCD approval by December 10, 2004. The plan shall include the installation of a new monitor well, how leaks and spills will be addressed in the future, a soil investigation and clean-up plan, and a plan to repair the wash-out pit leak detector.

Failure to abide by this request will be reason for OCD to issue a compliance order with civil penalties. If you have any questions please do not hesitate to contact me at 505-476-3487 or e-mail WPRICE@state.nm.us.

Sincerely;

Wayne Price-Pet. Engr. Spec.

cc: OCD Hobbs Office


NOTICE


PUBLIC NOTICE

Affidavit of Publication

RECEIVED

JUL 2 8 2003

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting 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

Legal Notice

was published in a regular and entire issue of **THE LOVINGTON DAILY LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of July 11, 2003 and ending with the issue of July 11, 2003.

And that the cost of publishing said notice is the sum of $76.41 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 21st day of July 2003

Debbie Schilling

Debbie Schilling
Notary Public, Lea County, New Mexico
My Commission Expires June 22, 2006

LEGAL NOTICE
PUBLIC NOTICE

Notice is hereby given that pursuant to the New Mexico Oil Conservation DIvision Regulations, the following application has been submitted for a discharge plan renewal to the DIrector of the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, NM 87505, (505) 476-3440.

The applicant, Salado Brine Sales, Box 1769, Eunice, NM 88231, has applied for a renewal to its existing discharge permit, BW-025. The facility is located two miles east of Jal, NM, off Hwy. 128, in the NE 1/4 of the NE1/4 of Section 20, Township 25 S., Range 37 E., Lea Co. The facility produces and sells approximately 1000 bls. of brine water per day from an approved brine extraction well. Groundwater at this area is found at approximately 450 ft. and has a chloride concentration that ranges from 100 milligrams per liter to 190 milligrams per liter and a total dissolved solids concentration that ranges from 500 milligrams per liter to 1500 milligrams per liter. The facility location is underlain by alluvial sediment and/or Quaternary Lake basins. The permit application addresses all phases of its operation.

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 application may be viewed at the above address or at the Hobbs District Office at 1625 N. French Dr., Hobbs, NM, between 8:00 am and 4:00 pm, Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of the notice, during which comments may be submitted and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

Published in the Lovington Daily Leader July 11, 2003.

PUBLIC NOTICE

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El aviso del AVISO PÚBLICO se da por este medio eso conforme a las regulaciones de la división de la conservación del aceite de New México, el uso siguiente se ha sometido para una renovación del plan de la descarga al director de la división de la conservación del aceite, impulsión del sur de 1220 Santo Francis, FE de santa, NM 87505, el aspirante, ventas de la salmuera de Salado, caja 1769, Eunice, NM 88231, ha solicitado una renovación a su permiso existente de la descarga, BW-025. La facilidad está situada dos millas al este del Jal, NM, de Hwy.128, en el NE1/4 del NE 1/4 de la sección 20, Municipio 25 S., Se extienden 37 E., Lea Co. La facilidad produce y vende los bls aproximadamente 1000. del agua de la salmuera por día de un pozo aprobado de la extracción de la salmuera. La agua subterránea en esta área se encuentra en los aproximadamente 450ft. y tiene una concentración del cloruro que se extienda a partir de 100 miligramos por litro a 190 miligramos por litro y una concentración disuelta total de los sólidos que se extienda de 500milligrams por litro a 1500 miligramos por litro. La localización de la facilidad es sida la base por el sedimento aluvial y/o los lavabos del lago Quatrenary. El uso del permiso trata todas las fases de su operación.

Cualquier persona interesada puede obtener la información adicional de la división de la conservación del aceite y puede someter witten comentarios al director de la división de la conservación del aceite en la dirección dada arriba. El uso se puede ver en la dirección antedicha o en la oficina de districto de Hobbs en N 1625. Dr Francés., Hobbs, NM, entre 8:00 y 4:00 P.M., lunes por viernes. Antes de la decisión en cualquier uso propuesto, el director de la división de la conservación del aceite dará un plazo por lo menos de treinta (30) días después de la fecha de la publicación del aviso, durante el cual los comentarios pueden ser sometidos y la audiencia pública se puede solicitar por cualquier persona interesada. El pedido la audiencia pública dispondrá las razones por las que una audiencia será llevada a cabo. Una audiencia será llevada a cabo si el director se determina que hay interés público significativo.

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 permit applications have been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-304) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Turley Compressor Station (Trunk O) located in the SW/4 NW/4 of Section 30, Township 30 North, Range 9 West, NMPM, San Juan County, New Mexico. Approximately 250 barrels per month of produced water, with a dissolved solids concentration ranging from 8,000 to 76,000 mg/l, is collected in closed steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a closed, double-walled underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 100 feet with a total dissolved solids concentration of approximately 300 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-147) – El Paso Natural Gas Company, Richard Duarte, (505) 831-7763, 3801 Atrisco Blvd. N.W., Albuquerque, New Mexico 87120, has submitted its discharge permit renewal application for its Deming Compressor Station located in the SE/4 SE/4 of Section 32, Township 23 South, Range 11 West, NMPM, Luna County, New Mexico. Approximately 43,200 gallons per day of cooling tower blowdown water with a total dissolved solids concentration of approximately 77,000 mg/l is stored in above-ground, lined evaporation ponds equipped with leak detection. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 30 feet with a total dissolved solids concentration of approximately 5,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-297) – Chaparral Services, Inc., P.O. Box 1769, Eunice, NM 88231, has submitted a discharge permit renewal application for its facility located in the SW/4 NW/4 of Section 20, Township 25 South, Range 37 East and the SE/4 N/E4 of Section 19, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per month of waste oil and solvents are collected in fiberglass storage tanks, then transported offsite for disposal. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 40 feet with a total dissolved solids concentration ranging from 700 to 1,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-303) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Navajo City Compressor Station (Trunk L) located in the SW/4 NW/4 of Section 33, Township 30 North, Range 7 West, NMPM, San Juan County, New Mexico. Approximately 250 barrels per month of produced water, with a dissolved solids concentration ranging from 8,000 to 76,000 mg/l, is collected in closed steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a closed, double-walled underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-302) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Potter Canyon Compressor Station (Trunk H/H) located in the NW/4 NE/4 of Section 19, Township 30 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 500 barrels per month of produced water, with a dissolved solids concentration of 10,000 mg/l, is collected in closed steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a closed, double-walled underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 2,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-298) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Martinez Canyon Compressor Station located in the SE/4 SE/4 of Section 16, Township 27 North, Range 6 West, NMPM, Rio Arriba County, New Mexico. Approximately 20 gallons per day of wastewater with a dissolved solids concentration of 10,000 mg/l is collected in the wash rack and a double-walled, closed steel tank sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth greater than 200 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-301) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Manzanares Compressor Station (Trunk A-R) located in the SW/4 NW/4 of Section 16, and N/E N/E of Section 17 Township 29 North, Range 9 West, NMPM, San Juan County, New Mexico. Approximately 75 Barrels per month of produced water with a dissolved solids concentration ranging from 8,000 to 76,000 mg/l is collected in closed, steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a double-walled, underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 300 mg/l to 3,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-154) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Angel Peak 2B3B Compressor Station located in the NE/4 NW/4 of Section 8, Township 27 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 2 gallons per day of process wastewater with a dissolved solids concentration of 3,500 mg/l is stored in closed, steel tanks prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth greater than 150 feet, with a total dissolved solids concentration of approximately 500 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-153) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Angel Peak 2B3A Compressor Station located in the SW/4 NW/4 of Section 20, Township 27 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 2 gallons per day of process wastewater with a dissolved solids concentration of 3,500 mg/l is stored in closed, steel tanks prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of 55 feet, with a total dissolved solids concentration of approximately 500 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-352) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit application for the Williams Field Services Cabresto Compressor Station located in the NE/4 NE/4 of Section 19, Township 30 North, Range 4 West, NMPM, Rio Arriba County, New Mexico. Approximately 2000 to 9000 barrels per year of produced water is stored in an above ground storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 400 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-025) Paul Prather, P.O. Box 7169, Eunice, New Mexico 88231, has submitted a discharge plan renewal application for the CSI Brine Sales Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water is stored in four 1,000 barrel above ground closed top tanks. The plan includes a chemical storage dock and a below grade concrete pit for temporary storage of exempt oilfield waste. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-018) Key Energy Services, Inc., Bob Patterson, (505) 394-2581, P.O. Box 340, Hobbs, New Mexico, 88240, has submitted a discharge application for its previously approved dis-

charge plan for the Trucker's #2 Brine Station located in the NE/4 SW/4 of Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 390,000 mg/l. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 60 feet with a total dissolved solids concentration of approximately 500 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 permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site http://www.emnrd.state.nm.us/ocd/. Prior to ruling on any proposed discharge permit 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 permit based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27th day of August 2003.

STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION

S E A L

LORI WROTENBERY,
Director
Legal #73956
Pub. September 3, 2003

THE SANTA FE
NEW MEXICAN
Founded 1849

RECEIVED
SEP 0 8 2003
OIL CONSERVATION DIVISION

Ed Martin
NM OIL CONSERVATION DIV.
1220 ST. FRANCIS DR
~~ATT MARY ANAYA~~
SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689
AD NUMBER: 00025904 ACCOUNT: 00002212
LEGAL NO: 73956 P.O. #: 04-199-050340
680 LINES 1 TIME(S) 465.52
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TOTAL: 502.25

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, K. Voorhees, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 73956 a copy of which is hereto attached was published in said newspaper 1 day(s) between 09/03/2003 and 09/03/2003 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 3rd day of September, 2003 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ K. Voorhees
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 3rd day of September, 2003

Notary Laura E Harding

Commission Expires: 11/23/03

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting 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

Legal Notice

was published in a regular and entire issue of **THE LOVINGTON DAILY LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of September 3, 2003 and ending with the issue of September 3, 2003.

And that the cost of publishing said notice is the sum of $ 119.24 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 23rd day of September 2003

Debbie Schilling

Debbie Schilling
Notary Public, Lea County, New Mexico
My Commission Expires June 22, 2006

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 permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-297) – Chaparral Services, Inc., P.O. Box 1769, Eunice, NM 88231, has submitted a discharge permit renewal application for its facility located in the SW/4 NW/4 of Section 20, Township 25 South, Range 37 East and the SE/4 N/E4 of Section 19, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per month of waste oil and solvents are collected in fiberglass storage tanks, then transported offsite for disposal. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 40 feet with a total dissolved solids concentration ranging from 700 to 1,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(BW-025) Paul Prather, P.O. Box 7169, Eunice, New Mexico 88231, has submitted a discharge plan renewal application for the CSI Brine Sales Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water is stored in four 1,000 barrel above ground closed top tanks. The plan includes a chemical storage dock and a below grade concrete pit for temporary storage of exempt oilfield waste. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-018) Key Energy Services, Inc., Bob Patterson, (505) 394-2581, P.O. Box 340 Hobbs, New Mexico, 88240, has submitted a discharge application for its previously approved discharge plan for the Trucker's #2 Brine Station located in the NE/4 SW/4 of Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 390,000 mg/l. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 60 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-145) – Flatrock Energy Partners, Mr. Clay Smith, P.E., 15600 San Pedro, Suite 401, San Antonio, Texas 78232, (210) 494-6777, on behalf of Raptor Gas Transportation LLC operated by ConocoPhillips, has submitted a discharge renewal application for the Zia Gas Plant and the Zia Booster Compressor Station located in the NE/4 NE/4 of Section 19 Township 19 South, Range 32 East, NMPM, Lea County, New Mexico. Approximately 5,900 gallons per month of process wastewater will be collected and stored in above ground steel tanks prior to disposal at an OCD approved offsite commercial disposal facility. The total dissolved solids concentration of the wastewater is approximately 2,000 mg/l. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 280 feet with a total dissolved solids concentration of approximately 2,400 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-351) – EOTT Energy LLC, Mr. Frank Hernandez, P. O. Box 1660, 5805 East Highway 80, Midland, Texas 79702, permit application for the EOTT Lea Station crude pump facility located in the NW/4, Section 28 Township 20 South Range 37 East, NMPM Lea County, New Mexico. Any potential discharge at the facility will be collected prior to transport to an OCD approved off-site disposal facility. Groundwater under the facility is being remediated under an OCD approved abatement plan. 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 permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m. Monday through Friday. The draft discharge permit may also be viewed at OCD's web site http://www.emnrd.state.nm.us/ocd/. Prior to ruling on any proposed discharge permit 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. Request 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 permit based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 26th day of August 2003.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY
Director

S E A L

Published in the Lovington Daily Leader September 3, 2003

1245
TERMINI: NM 48, NM 532 to NM 37 for 6.580 km
COUNTY: Lincoln (District 2)
TYPE OF WORK: Roadway Reconstruction, Bridge Replacement
CONTRACT TIME: To be completed by May 20, 2005 (See Notice To Contractors)
DBE GOAL: The approved FY 2003 State DBE Goal on Federally assisted projects is established at 8.36%. At this time NMSHTD will meet the State DBE on Federally-assisted projects through race neutral measures. There is no DBE project goal established for this project.
LICENSES: (GA-1 Or GA-98) & (GF-2 Or GF-98)

A Pre-Bid Conference (MANDATORY) for CN 1245 will be held on August 7, 2003 at 1:00 PM at the Ruidoso Convention Center 111 Sierra Blanca Drive, Ruidoso, New Mexico. For additional information regarding the Pre-Bid Conference contact Rick Padilla at 505.827.0388

Project Field Reviews with David Dawson, Project Manager, New Mexico Department of Transportation (MANDATORY) for CN 1245 will be held on August 4, 5 & 6, 2003. Contractors must schedule a day and time with the Ruidoso Project Office at 505.257.8424. The Ruidoso Project Office is located at 100 Cree Meadows, Ruidoso, New Mexico. For additional information regarding the Project Field Reviews contact David Dawson at 505.257-8424.

(5)
BR-O-0154(1)01 - CN 2065

TERMINI: NM 154, MP 1.0 for 0.012 miles
COUNTY: Dona Ana (District 1)
TYPE OF WORK: Bridge Replacement
CONTRACT TIME: 30 Working Days
DBE GOAL: The approved FY 2003 State DBE Goal on Federally assisted projects is established at 8.36%. At this time NMSHTD will meet the State DBE on Federally-assisted projects through race neutral measures. There is no DBE project goal established for this project.
LICENSES: (GA-1 Or GA-98) & (GF-2 Or GF-98)
Advertisement Dates: July 25, August 1, 8 &

owned by the applicant located within the Village of Glorieta, Santa Fe County, New Mexico.

Any person, firm or corporation or other entity having standing to file objections or protests shall do so in writing (legible, signed, and include the writer's complete name and mailing address). The objection to the approval of the application: (1) if impairment, you must specifically identify your water rights; and/or (2) if public welfare or conservation of water within the state of New Mexico, you must show you will be substantially effected. The written protest must be filed, in triplicate, with the State Engineer, 121 Tijeras NE Suite 2000, Albuquerque, NM 87102, within ten (10) days after the date of the last publication of this Notice. Facsimiles (faxes) will be accepted as a valid protest as long as the hard copy is sent within the 24-hour period. Protests can be faxed to (505)764-3892. If no valid protest or objection is filed, the State Engineer will evaluate the application in accordance with Sections 72-2-16, 72-5-6, 72-6-5, and 72-12-3.
Legal #73792
Pub. August 1, 8, 15, 2003

Notice of Invitation to Bid

The Alternative Fuels Vehicle Network (AFVN) will accept sealed bids from qualified respondents to provide equipment hardware and installation for one (1) to five (5) ethanol (E-85) public fueling stations. Equipment bids will include a dispenser and a 10,000 gallon E-85 tank with the option of installation both above and below ground at the public site. Dispenser will have universal card access capability. Bids shall provide a separate equipment list and cost and a separate installation (estimated) cost. Stations will be installed in and around the communities of Albuquerque, Los Alamos and Santa Fe. Bids will be accepted until 5:00 pm local time on Friday, August 8, 2003. Bids received after this time will not be accepted. All bids must be submitted in a sealed envelope. Specific questions regarding the bid can be made to AFVN at 505-856-8585. Bids will be submitted to AFVN, 11621 San Antonio NE, Albuquerque, NM,

will be stored in a closed top receptacle prior to transport off-site to an OCD approved disposal facility. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 15 feet with a total dissolved solids concentration of approximately 675 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-025) Paul Prather, P.O. Box 7169, Eunice, New Mexico 88231, has submitted a discharge plan renewal application for the CSI Brine Sales Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water is stored in four 1,000 barrel above ground closed top tanks. The plan includes a chemical storage dock and a below grade concrete pit for temporary storage of exempt oilfield waste. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(UIC-CL1-008) - Navajo Refining Company, Darrell Moore, (505) 748-3311, P.O. Box 159, Artesia, New Mexico, 88211, has submitted a discharge plan renewal application for their Class I non-hazardous disposal wells for disposal of non-hazardous fluids generated at the Artesia and Lovington refineries. The non-hazardous fluids will be transported to the injection wells by pipeline. The wells named "Navajo WDW-1 and WDW-2" are located approximately 11 miles southeast of Artesia, New Mexico found in section 31 (660 FSL-2310 FEL), Township 17 South, Range 28 East and Section 12 (1980 FNL-660 FWL, Township 18 South, Range 27 East, respectively NMPM, Eddy

from 78 to 90 feet and has a total dissolved solids concentration of approximately 450 m

(GW-019) – Loco Hills GSF has purchased the Amerigas Gas Corporation's Loco Hills L.P. Gas underground salt cavern storage facility located in NW/4 SW/4 of Section 22, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. Loco Hills GSF has submitted a discharge plan modification to construct a new 186,540 barrel double lined storage pond with leak detection to store brine water. Groundwater most likely to be affected by an accidental discharge is at a depth of 80-90 feet with a total dissolved solids concentration of 0-10,000 mg/l. The discharge plan addresses how spill, 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 permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site http://www.emnrd.state.nm.us/ocd/. Prior to ruling on any proposed discharge permit 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 and any interested person may request a public hearing. 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 permit based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mex-

comments
electronicall
ernest.w.jah
.army.mil.

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proposal wi
Thursday,
2003, from
PM at the
High Schoo
Arts Center,
Colorado, N
cho, NM.
Legal #7374
Pub. August

**NOTIFICA
DISPOSIT
COLLAT**

**NOTICE OF
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**NAME OF
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**CREDITOR:
STATE BAN**
P.O. Box 3
querque, N.M.
Attention: Ms
Richards,
241-7677

DEBT: Debt
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May 8, 2000 P
Note; Original
Amount $1
Loan #327336

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NOTICE OF
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Ann. # 55-9-61
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State Bank
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sale at a public
as follows:
Day: Saturday
Date: August 2
Time: 9:00 a.m.
Place of Sale:
Gusdorf Roa
New Mexico 87

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that it does not
acceptable,
Bank reserves
to take any oth
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DISCLAIMER:
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FIRST STATE B

By Cynthia Rich

56689

LEGALS

(District 1)
TYPE OF WORK: Roadway Rehabilitation
CONTRACT TIME: 120 Working Days
DBE GOAL: The approved FY 2003 State DBE Goal on Federally assisted projects is established at 8.36%. At this time NMSHTD will meet the State DBE on Federally-assisted projects through race neutral measures. There is no DBE project goal established for this project.
LICENSES: (GA-1 Or GA-98)

(2)
HSP-043-1(17)304 - CN 3912R

TERMINI: US 54, Jct NM 237, Tucumcari for 0.500 miles
COUNTY: Quay (District 4)
TYPE OF WORK: Roadway Reconstruction
CONTRACT TIME: To be completed by November 30, 2003
DBE GOAL:
The approved FY 2003 State DBE Goal on Federally assisted projects is established at 8.36%. At this time NMSHTD will meet the State DBE on Federally-assisted projects through race neutral measures. There is no DBE project goal established for this project.
LICENSES: (GA-1 Or GA-98)

(3)
TPM-TPE-0017(8)02 - CN 0853

TERMINI: NM 17, Village of Chama MP 1.078 to 1.689 for 0.610 miles
COUNTY: Rio Arriba (District 5)
TYPE OF WORK: Roadway Reconstruction, Lighting
CONTRACT TIME: To be completed by July 1, 2004
DBE GOAL: The approved FY 2003 State DBE Goal on Federally assisted projects is established at 8.36%. At this time NMSHTD will meet the State DBE on Federally-assisted pro-

LEGALS

New Mexico Department of Transportation
Santa Fe, New Mexico

Legal #73750

Pub. July 25; August 1, 8, 15, 2003

NOTICE is hereby given that on July 7, 2003, Harmony Hammond, 5618 State Highway 41, Galisteo, New Mexico 87540, filed Application No. E-24383-B into RG-51167-Enlg. with the **STATE ENGINEER** for Permit to Change Place Use or Purpose of Use of Underground Waters within the Rio Grande Underground Water Basin.

On April 2, 1991, Application No. RG-24383-B into RG-51167 for Permit to Change Location of Well was granted by the State Engineer to divert 2.1 acre feet of water per annum from well No. RG-51167 in the NW1/4 SW1/4 SW1/4 of Section 36, Township 14 North, Range 9 East, NMPM, for the irrigation of 0.70 acres of land located within Tract A-2 of Plat of Survey for H. Peter Gould and Priscilla Hoback and located at a point in the NW1/4 and NE1/4 SW1/4 SW1/4 of said Section 36, and partially within E.W. Eaton Grant. Well RG-51167 is also permitted in accordance with 72-12-1 NMSA.

The applicant proposes to change place of use from said 0.70 acres of land located within said Tract A-2 to 3.493 acres of land being all of said Tract A-2 and to change the purpose of use from flood irrigation to drip irrigation. The applicant states, I want "to enlarge the place of use from 0.70 acres to the full property (3.493 acres) in order to water orchard and garden by drip irrigation, to water in greenhouse and to restore natural vegetation." Under the current permit I am irrigation ha-

LEGALS

INVITATION FOR BID – ADDENDUM

OWNER: New Mexico School for the Deaf, 1060 Cerrillos Road, Santa Fe, New Mexico 87503

PROJECT: Re roof, Re stucco and Miscellaneous Infrastructure at the New Mexico School for the Deaf

BID OPENING: The bid opening of 2:00 p.m., (local time), Wednesday, July 30, 2003 (07/30/2003) is hereby changed to 2:00 p.m., (local time) on Wednesday, August 6, 2003 (08/06/2003). At such date and time, all bids received will be opened and read aloud. Bids received after the time indicated will be returned unopened.

All other facts and circumstances related to the previous invitation for bid announcement remain unchanged.

Legal #73793
Pub. August 1, 4, 5, 6, 2003

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(s) have been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-275)-Unichem (a Division of BJ Services Company), Mr. Robert E. Barr, 1215 Basin Road, Farmington, New Mexico 87401, has sub-

LEGALS

Wolfcamp Formation and the Cisco and Canyon Formations between 7,270 feet and 8894 feet. The total dissolved solids concentration of the injection zone ranges from 13,000 mg/l to 119,909 mg/l. The proposed maximum injection rate into the wells will be 500 gallons per minute with a maximum injection pressure of 1490 psi (WDW-1) and 1454 psi (WDW-2). The total dissolved solids concentration of the injection fluid is expected to range from 1000-5000 mg/l. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 100 feet below ground level with a total dissolved solids concentration ranging from approximately 100 mg/l to 1,535 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

UIC-CLI-005 (GW-130) - Key Energy Services, Inc., Mr. Mike Talovich, P.O. Box 900, Farmington, New Mexico, 87499 has submitted a discharge plan renewal application for their permitted Class I disposal well located in Unit Letter E, Section 2, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 2,000 barrels per day of non-hazardous oil field liquid waste are disposed of by injection into the Point Lookout Formation at a depth from 4,380 to 4,480 feet. The total dissolved solids concentration of the injection water is approximately 24,000 mg/l. The total dissolved solids concentration of the formation fluids is approximately 14,000 mg/l. The discharge plan addresses construction, operation and monitoring of the well and associ-

LEGALS

MEXICO
OIL CONSERVATION DIVISION

S E A L
LORI WROTENBERY, Director

Legal #73788

Pub. August 1, 2003

Notice of Availability

The U.S. Army Corps of Engineers, Albuquerque District, has completed the Draft Findings of No Significant Impact and Environmental Assessment (DFONSI/EA) entitled "Relocation of the Al Black Recreation Area at the Cochiti Dam Outlet Works to Peña Blanca, Sandoval County, New Mexico." The proposed project entails closing public access to the Al Black Recreation Area at Cochiti Dam on New Mexico Highway 22, removing all recreation facilities, and restoring the site to natural conditions. The proposed work at Peña Blanca (NM) on the Rio Grande involves construction of public recreation facilities that include an access road, parking lot, and a vault toilet and floating fishing pier with universal accessibility.

The DFONSI/EA is electronically available for viewing and copying at the Albuquerque District website (under "Environmental Assessment and FONSI" at:

http://www.spa.usace.army.mil

or a hard copy will be sent upon written request to the following address:

**U.S. Army Corps of Engineers
Albuquerque District
Environmental Resources Branch
Attn: CESPA-EC-R
(Mr. Ernest Jahnke)
Albuquerque, New**

LEGAL

NEW MEXICO TRANSPORT COMMISS NOTICE OF SI MEETIN AUGUST 6, 2 SANTA FI EW MEXIC

The New Mexic Transportation C sion will hold a meeting at 9:00 Wednesday Aug 2003, at the Nev ico Departmen Transportation, Cerrillos Road, Fe, New Mexic Training Rooms 2.

The agenda for the cial meeting will training workshop staff of the New M Department of T portation and othe make presentations the Commission on Commission and partment's finan revenues, budget, tential bonding progr project funding, C Richardson's inve ment program, fede funding process, sta wide transportation i provement plan pr ess, contracting a procurement, constru tion contracting, and lated subject matter. addition, the Commi sion will act on setting new schedule for i regular meetings. time permits, the Com mission may also tak part in a "Park an Ride" training trip t Espanola and lunch No action will be taken during this outing. Pursuant to the American with Disabilities Act of 1990, unless compelling reasons dictate otherwise, meetings and hearings conducted by the Commission will be held in accessible buildings. Given reasonable notice, interpreters and readers will be made available to the hearing and visually impaired. For more information regarding accessibility contact the NMDOT Of

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 permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(BW-025) Paul Prather, P.O. Box 7169, Eunice, New Mexico 88231, has submitted a discharge plan renewal application for the CSI Brine Sales Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water is stored in four 1,000 barrel above ground closed top tanks. The plan includes a chemical storage dock and a below grade concrete pit for temporary storage of exempt oilfield waste. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 17th day of June 2003.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

LORI WROTENBERY, Director

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 7-3-0.

or cash received on ______________ in the amount of $ 100.00

from EDDIE SEAY CONSULTING

for CSI SALADO BRINE BW-025.

(Facility Name) (DP No.)

Submitted by: WAYNE PRICE Date: 7/17/03

Submitted to ASD by: [signature] Date: "

Received in ASD by: ______________ Date: ______________

Filing Fee ✓ New Facility ____ Renewal ____

Modification ____ Other ______________

(specify)

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment ____ or Annual Increment ____

EDDIE SEAY CONSULTING
601 W. ILLINOIS 392-2236
HOBBS, NM 88240

95-219/1070 616
1100154253

[redacted]

Date 7-3-03

Pay to the Order of NMED - Water Quality Management $ 100.00

One hundred and no/100 Dollars

Wells Fargo Bank New Mexico, N.A.
1910 North Turner Street
Hobbs, NM 88240
www.wellsfargo.com

Memo CSI - BW-025 Rena Seay

[redacted]

July 3, 2003

NMOCD Environmental
ATTN: Wayne Price
Box 6429
1220 S. Saint Francis Drive
Santa Fe, NM 87504

RE: CSI Salado Brine BW-025

Mr. Price:

Find within the renewal application for the discharge plan.

If you need anything else, please call.

Thanks,

Eddie W Seay

Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(505)392-2236

SALADO BRINE SALES

Jal, NM

NMOCD DISCHARGE PLAN BW-025

July 2003

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Revised June 10, 2003 Submit Original Plus 1 Copy to Santa Fe 1 Copy to Appropriate District Office

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITES

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

New (Renewal)

I. Facility Name: Salado Brine Sales BW-025

II. Operator: Chaparral Service, Inc.

Address: P.O. Box 7169 Eunice, NM 88231

Contact Person: Paul Prather Phone: (505)394-2545

III. Location: NE /4 NE /4 Section 20 Township 25 S. Range 37 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 personally 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: Eddie W. Seay Signature: Eddie W Seay

E-mail Address: seay04@leaco.net

Eddie W Seay

Eddie W Seay Title: Agent

Date: 7-3-03

IV. Attach the name, telephone and address of the landowner of the facility.

Chaparral Services, Inc.
(505)394-2545
Box 7169
Eunice, NM 88231

V. Attach a description of the types and quantities of fluid of the facility.

VI. Attach a description of all fluid transfers and storage at facility.

Diagram attached.

INVENTORY

1. 4-1000 bbl. brine storage tanks.
   Steel tanks have been flake-line coated on the inside.

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   The 4 storage tanks are connected to this line and at each end of line is a loading rack.

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   The 4" lines are buried 1" below ground and slopes toward the 5" line.
   The 5" line is buried 1 1/2" below ground and slopes toward the washout facility.
   The 4" lines have a valve where the lines can be closed to the 5" line in case 5" line ever becomes plugged and pressure has to be applied to clean line.

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   The loading racks are 14' x 14' concrete pads with pads sloping toward center. A drain in the center is connected to the 4" drain lines. The concrete pads are 8" thick with rebar. Concrete used was 6 sacks cement per square yard with fibermesh.

5. Washout facility.

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Chaparral Services, Inc. (CSI) owns and operates backhoes, vacuum trucks, and other oilfield equipment used in cleanup of spills and releases. In the event of a release of fluids, Chaparral will notify the Hobbs NMOCD and proceed with cleanup as guidelines require.

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

The OCD witnesses the testing of the brine well for integrity. CSI, on a regular schedule, sample and monitor water wells within the area. If changes in quality of fresh water is noted, the OCD will be notified. Water analysis and well test previously submitted.

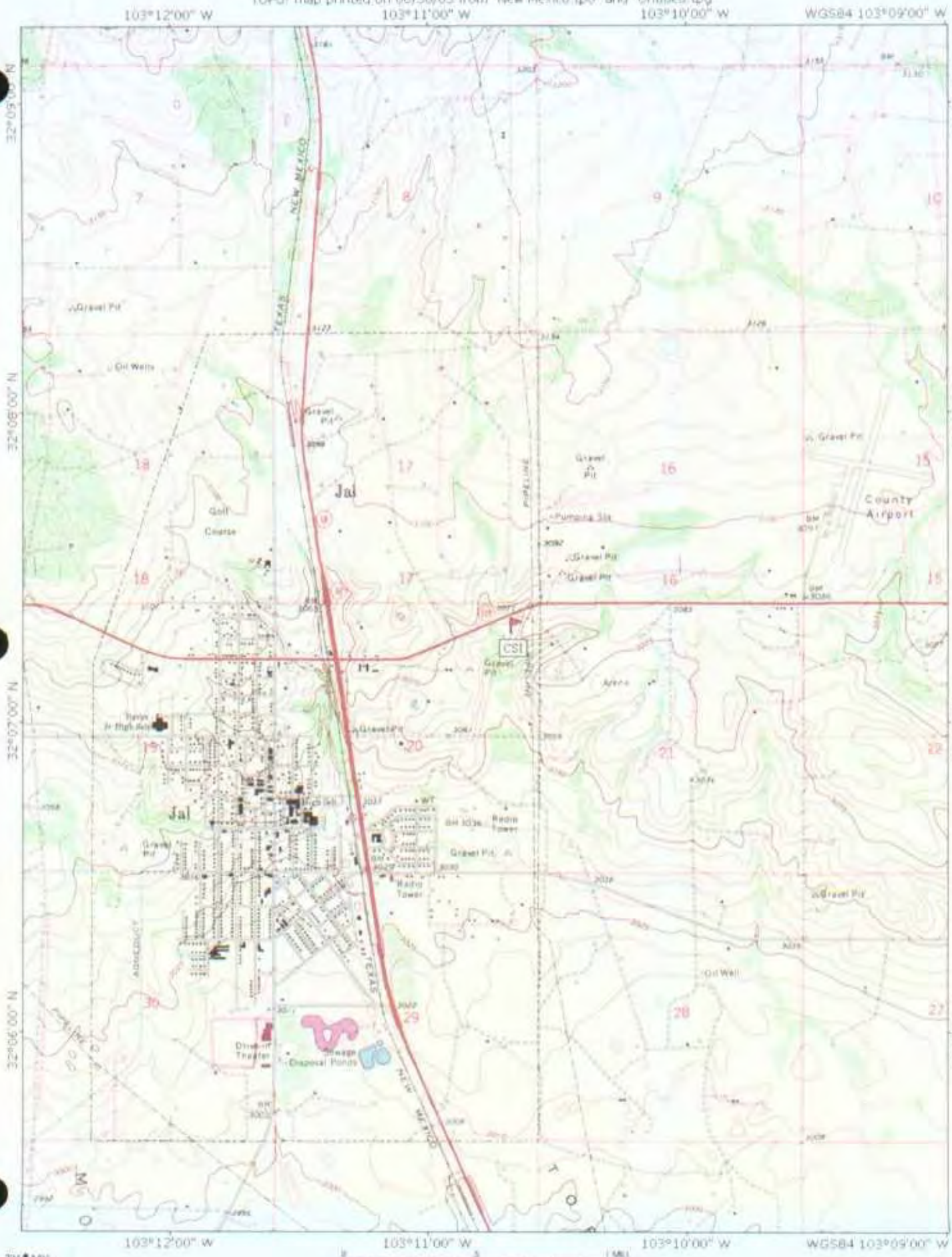
Find attached lithology log of the brine well and groundwater information.

X. No information added.

XI. Signature.

III

TOPO! map printed on 06/30/03 from "New Mexico.tpo" and "Untitled.tpg"



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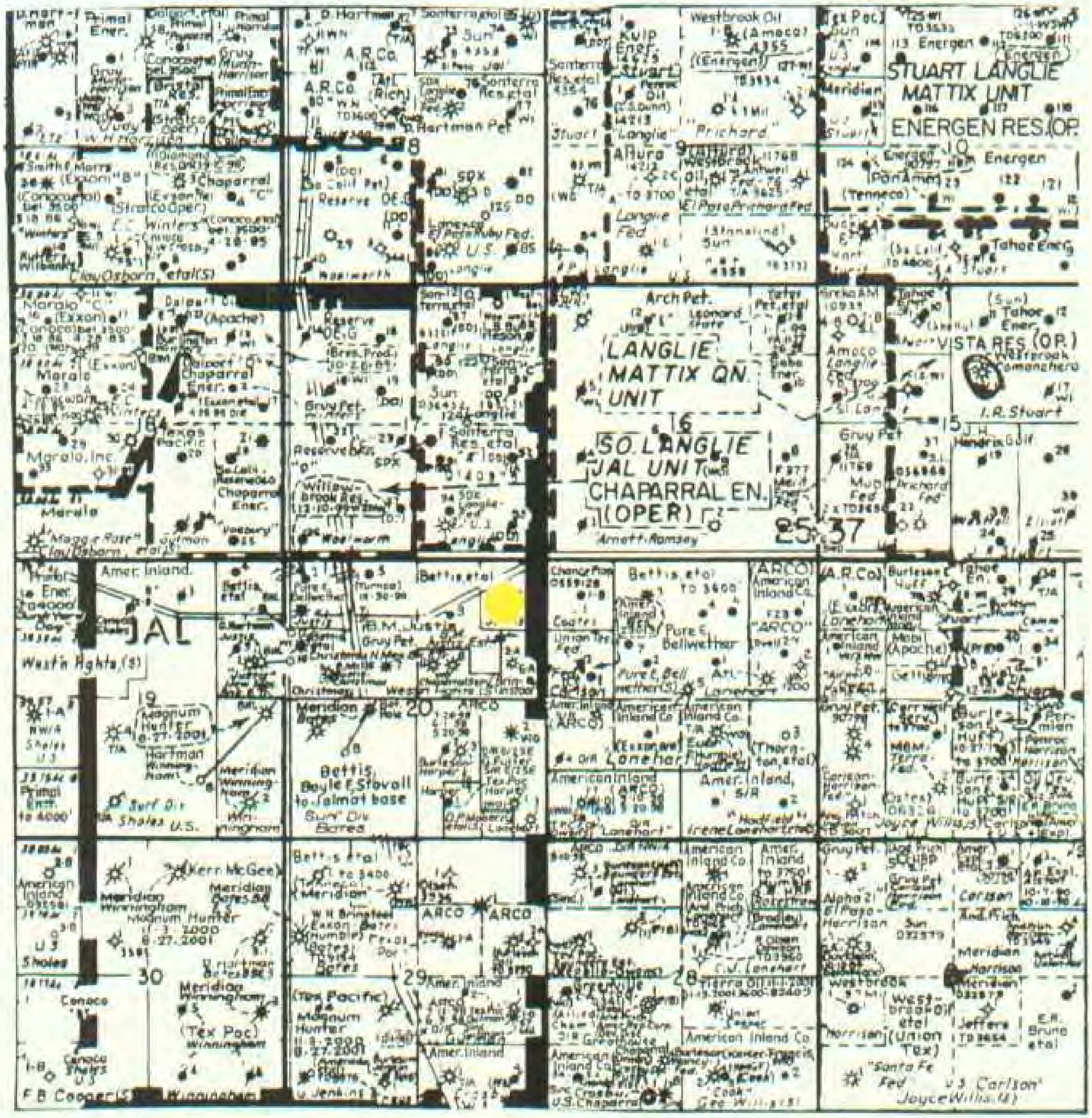
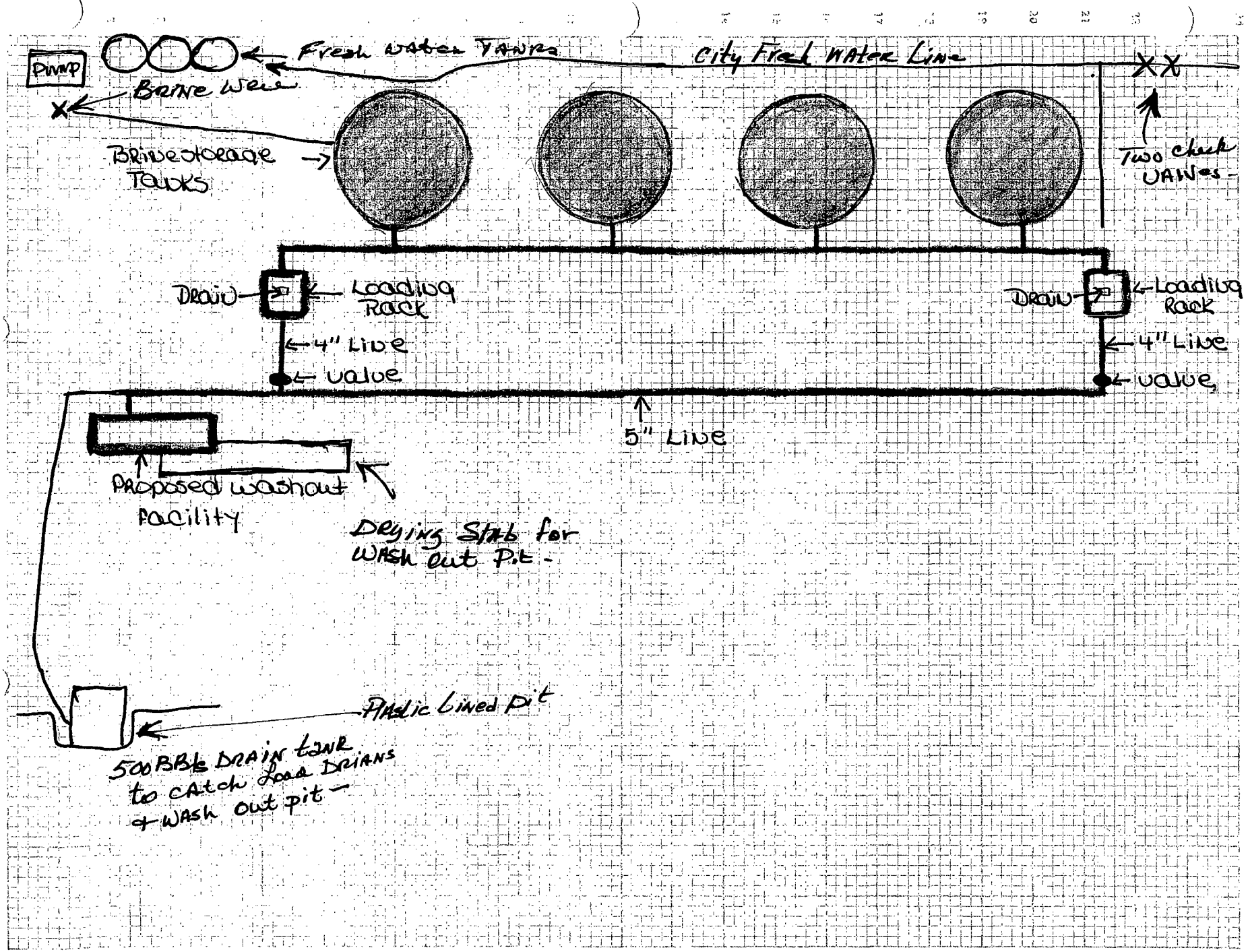
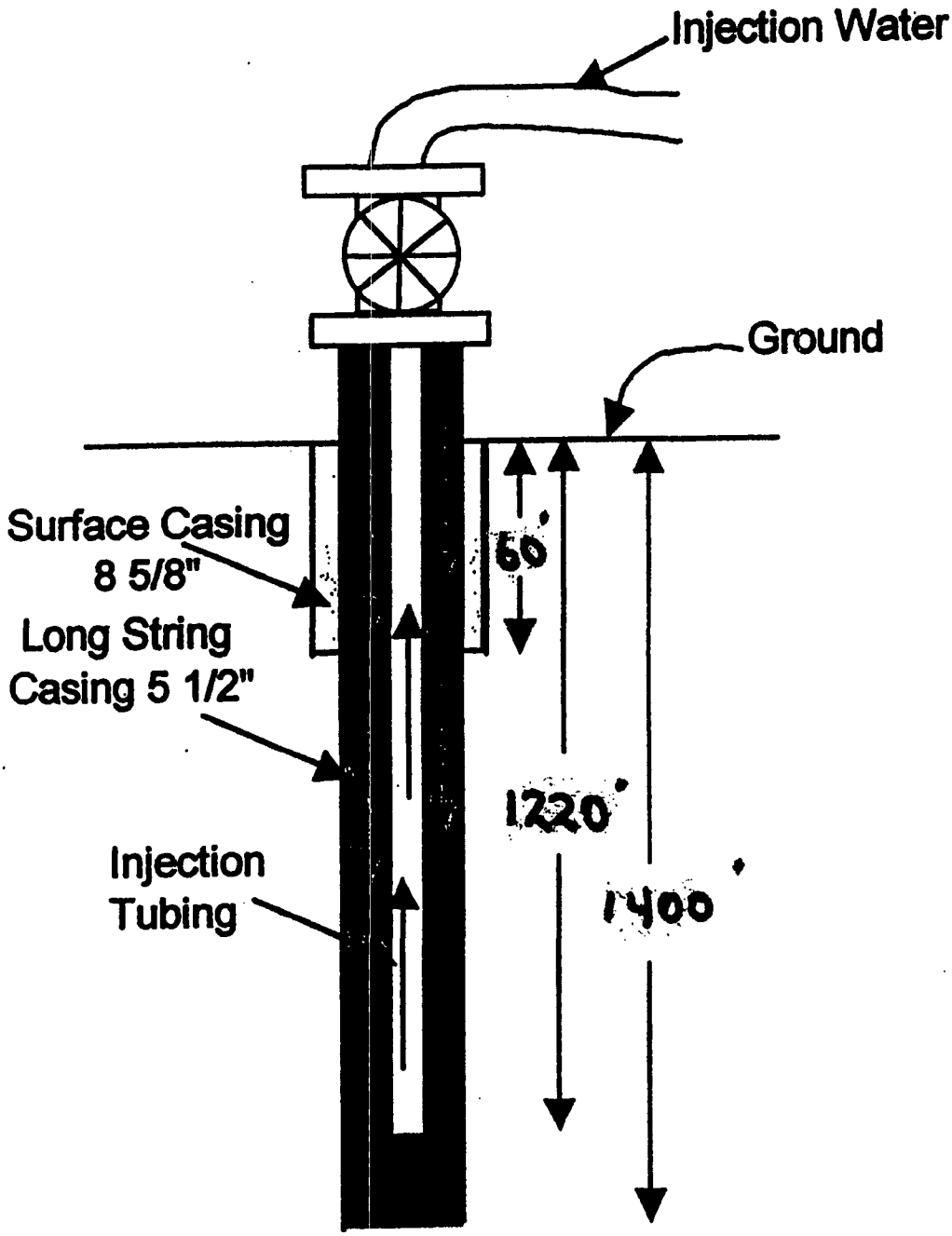

STUART LANGLIE
MATTIX UNIT
ENERGEN RES.(OP.
LANGLIE
MATTIX QN.
UNIT
SO. LANGLIE
JAL UNIT
CHAPARRAL EN.
(OPER)
VISTA RES.(OP.)
JAL
25 37
Arch Pet.
Westbrook Oil
Amer. Inland
ARCO
Kern McGee

V


PUMP
Fresh water TANKS
City Fresh WATER Line
Brine well
Brine storage Tanks
Two check VALVES
DRAW
Loading Rack
4" Line
valve
DRAW
Loading Rack
4" Line
valve
5" Line
Proposed washout Facility
Drying Slab for WASH out Pit -
Plastic Lined Pit
500 BBls DRAIN tank to catch Load DRIANS & WASH out pit -

Brine Well Schematic

VII



WEST TEXAS WATER WELL SERVICE

3432 W. University Blvd.
Odessa, Texas 79764

(915) 381-2687 Fax (915) 381-7853

IX

XL Transportation
P.O. Drawer A
Jal, NM 88252

Salado #2

0	- 1	Topsoil
1	- 12	Broken caliche
12	- 15	Granite
15	- 40	Red sand
40	- 60	Gray & red shale
60	- 120	Red bed
120	- 130	Blue shale
130	- 137	Brown lime
137	- 145	Red & brown rock - hard
145	- 165	Gray shale
165	- 175	Red bed
175	- 205	Brown shale w/streaks of gray
205	- 325	Red bed
325	- 340	Brown lime, medium
340	- 355	Red sand & water
355	- 485	Hard red sandy shale
485	- 495	Red rock
495	- 525	Brown sand & water
525	- 580	Red bed
580	- 600	Red rock
600	- 675	Red bed
675	- 1025	Red rock & anhydrite
1025	- 1080	Gray lime
1080	- 1095	Anhydrite
1095	- 1125	Red sand
1125	- 1140	Gray lime
1140	- 1185	Salt & anhydrite
1185	- 1230	Blue shale
1230	- 1240	Anhydrite & potash, some salt
1240	- 140 --	Salt

New Mexico Office of the State Engineer
Well Reports and Downloads

IX

Township: 25S Range: 37E Sections: 20

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

[redacted]

WATER COLUMN REPORT 12/11/2001

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

Well Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)
CP 00428	25S	37E	20	1						90	60	30
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CP 00661	25S	37E	20	1	3	3				38	23	15
CP 00120	25S	37E	20	2	3	1				460		
CP 00124	25S	37E	20	2	4	1				530		
CP 00121	25S	37E	20	2	4	3				510		
CP 00619	25S	37E	20	3	1					48	25	23
CP 00777	25S	37E	20	3	2	4				100	28	72
CP 00557	25S	37E	20	3	3	3				350	42	308

Record Count: 9

New Mexico Office of the State Engineer

Well Reports and Downloads

Township: 25S Range: 37E Sections: 20

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WELL / SURFACE DATA REPORT 12/11/2001

DB File Nbr	Use	(acre ft per annum) Diversion	Owner	Well Number	Source	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws	Rng	Sec	q	q	q	X Y ar Zone
CP 00120	COM	31.2	CHAPARRAL SERVICES, INC.	CP 00120		25S	37E	20	2	3	1	
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Record Count: 9


SALADO BRINE
SALES #2
S20 T25S R37E

SALADO BRINE SALES

Jal, NM

NMOCD DISCHARGE PLAN BW-025

July 2003

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Revised June 10, 2003 Submit Original Plus 1 Copy to Santa Fe 1 Copy to Appropriate District Office

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITES

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

New (Renewal)

I. Facility Name: Salado Brine Sales BW-025

II. Operator: Chaparral Service, Inc.

Address: P.O. Box 7169 Eunice, NM 88231

Contact Person: Paul Prather Phone: (505)394-2545

III. Location: NE /4 NE /4 Section 20 Township 25 S. Range 37 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 personally 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.

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E-mail Address: seay04@leaco.net

Eddie W Seay

Eddie W Seay Title: Agent

Date: 7-3-03

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X. No information added.

XI. Signature.

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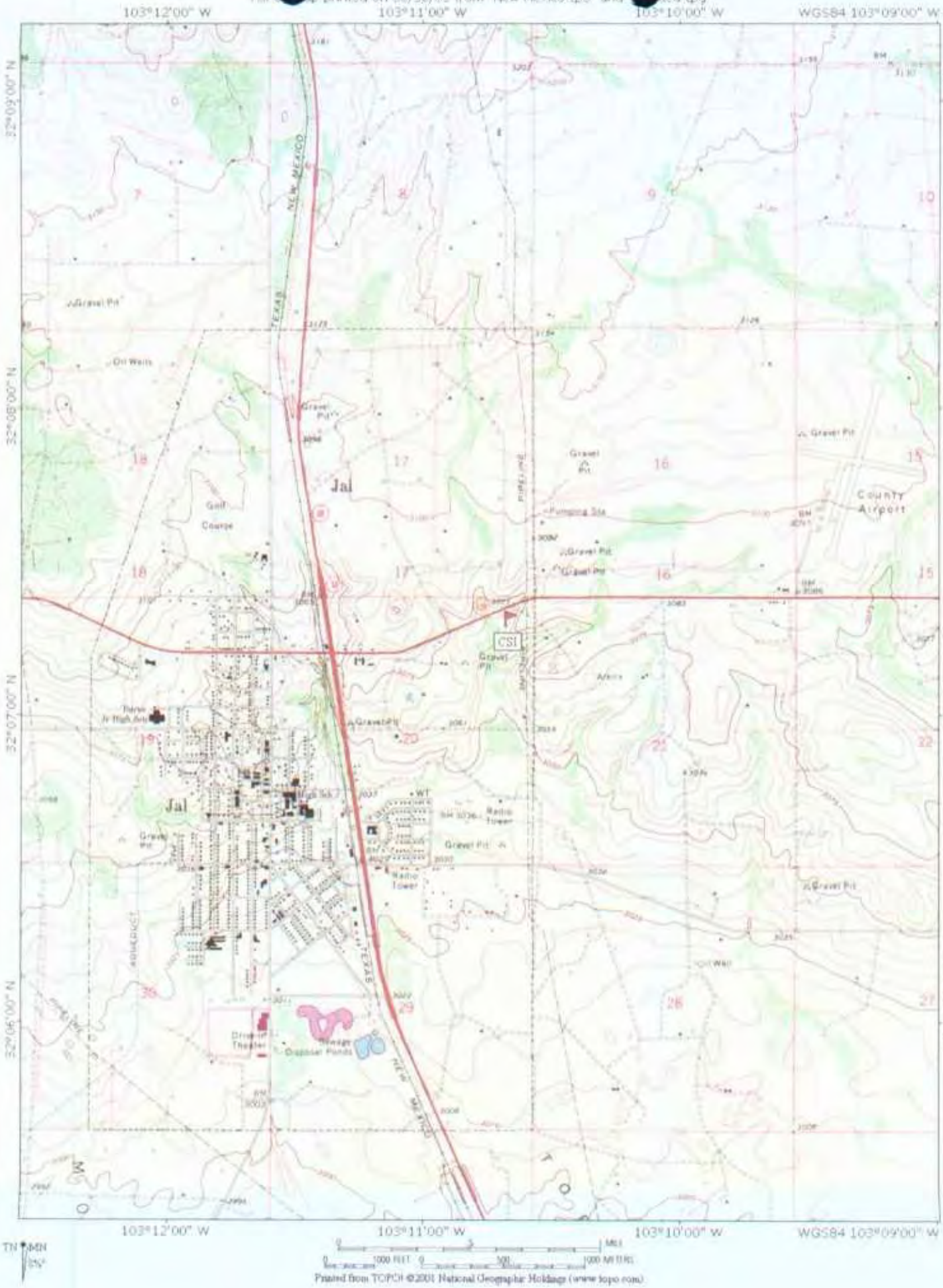
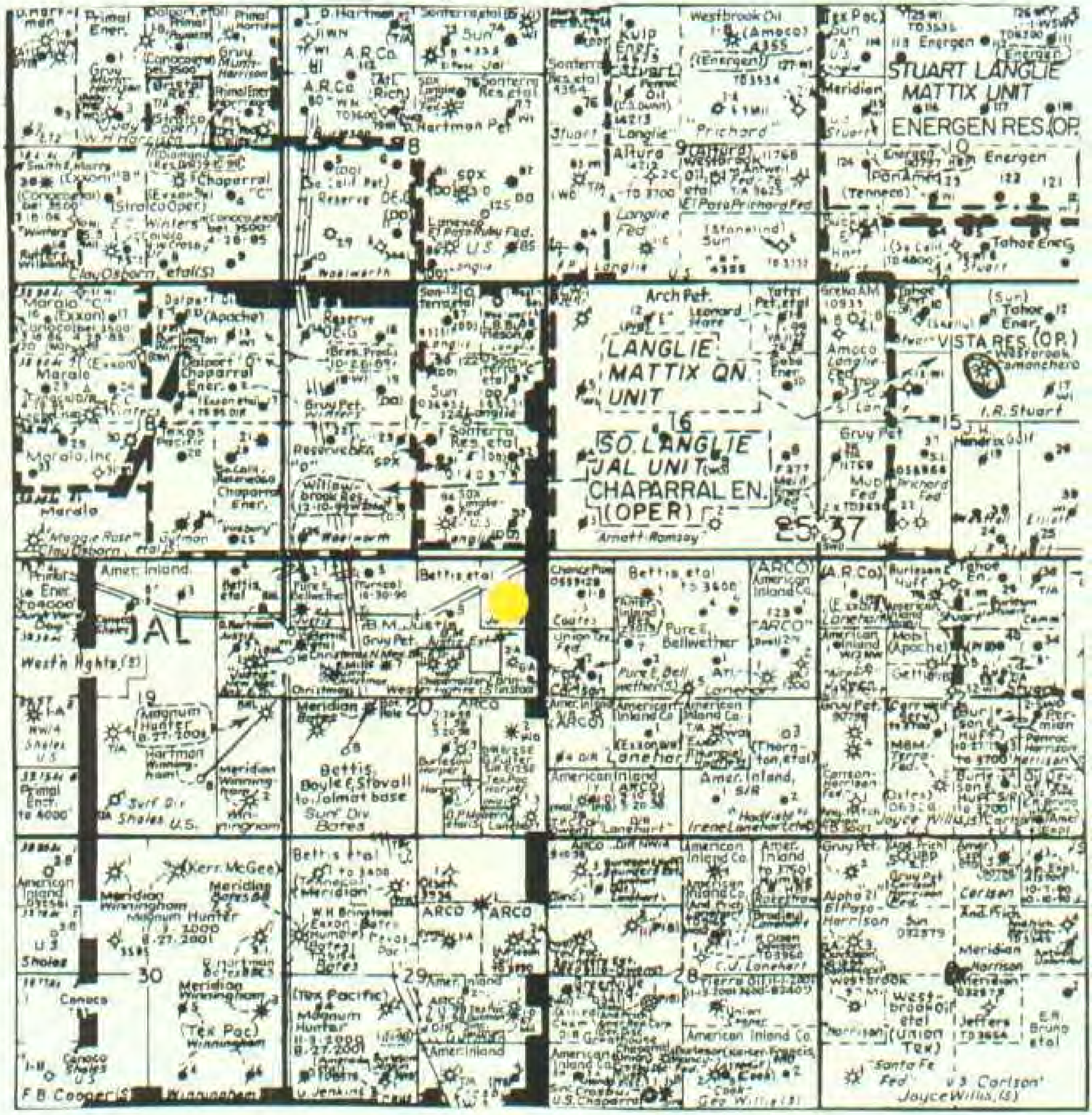
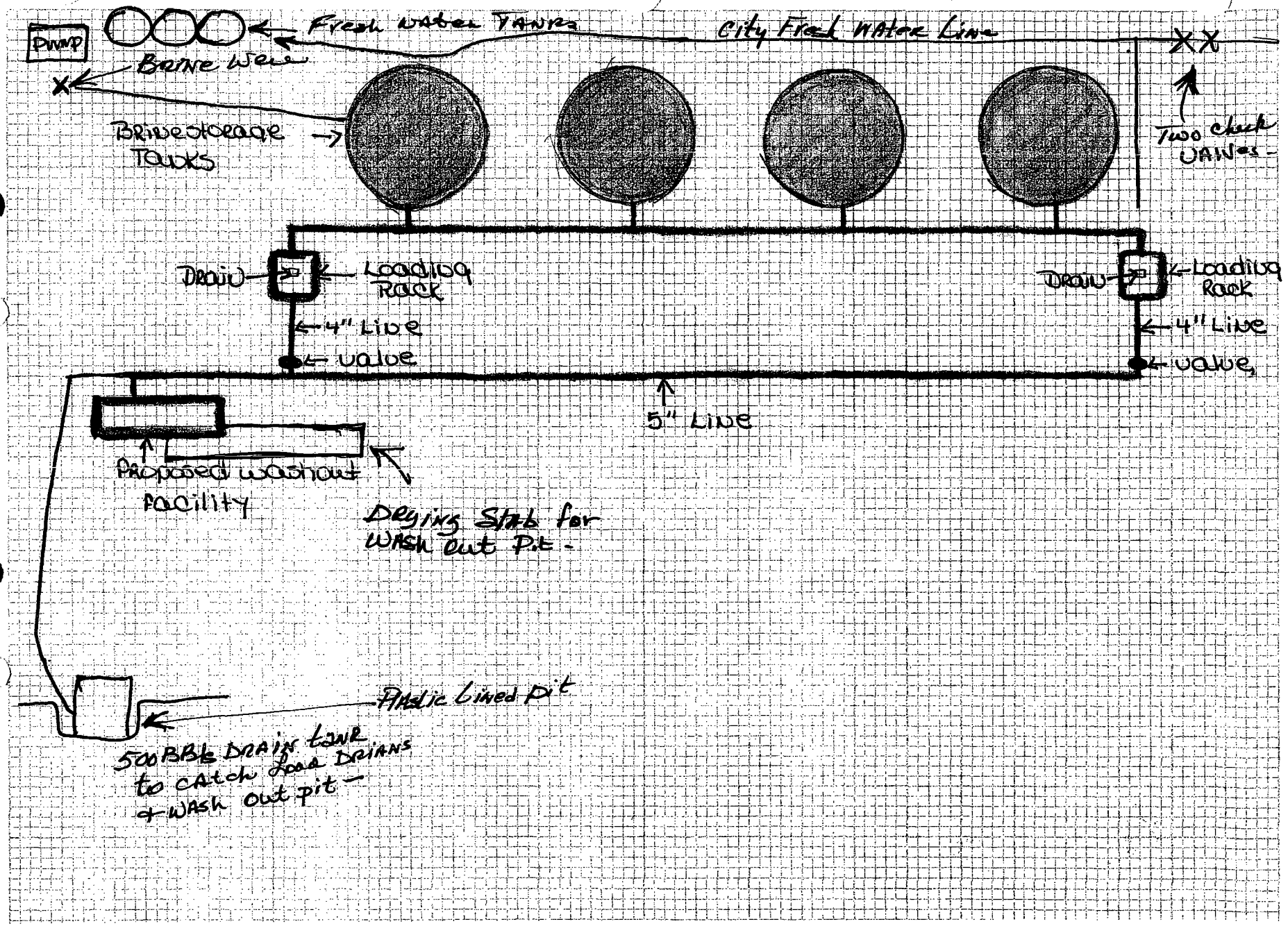
TOPO map printed on 06/30/03 from "New Mexico.tpo" and "Untitled.tpg"



III


STUART LANGLIE
MATTIX UNIT
ENERGEN RES.(OP
LANGLIE
MATTIX QN.
UNIT
SO. LANGLIE
JAL UNIT
CHAPARRAL EN.
(OPER)
VISTA RES.(OP.)
JAL
25 37
Amer. Inland
Bettis, etal
B.M. Justis
ARCO
American Inland Co.
Magnum Hunter
Kerr McGee
Meridian
Westbrook Oil
Arch Pet.
Sun
Sonterra
Langlie
Energen
Tahoe
Gruy Pet.
I.R. Stuart
Prichard
Carlson
Joyce Willis(S)
Geo. Willis(S)

V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Fresh water Tanks
City Fresh Water Line
Brine Well
Brine storage Tanks
Two check VALVES
DRAIN
Loading Rack
4" Line
valve
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Drying Slab for WASH out Pit
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500 BBL DRAIN TANK to catch load DRIANS & WASH out pit

Brine Well Schematic

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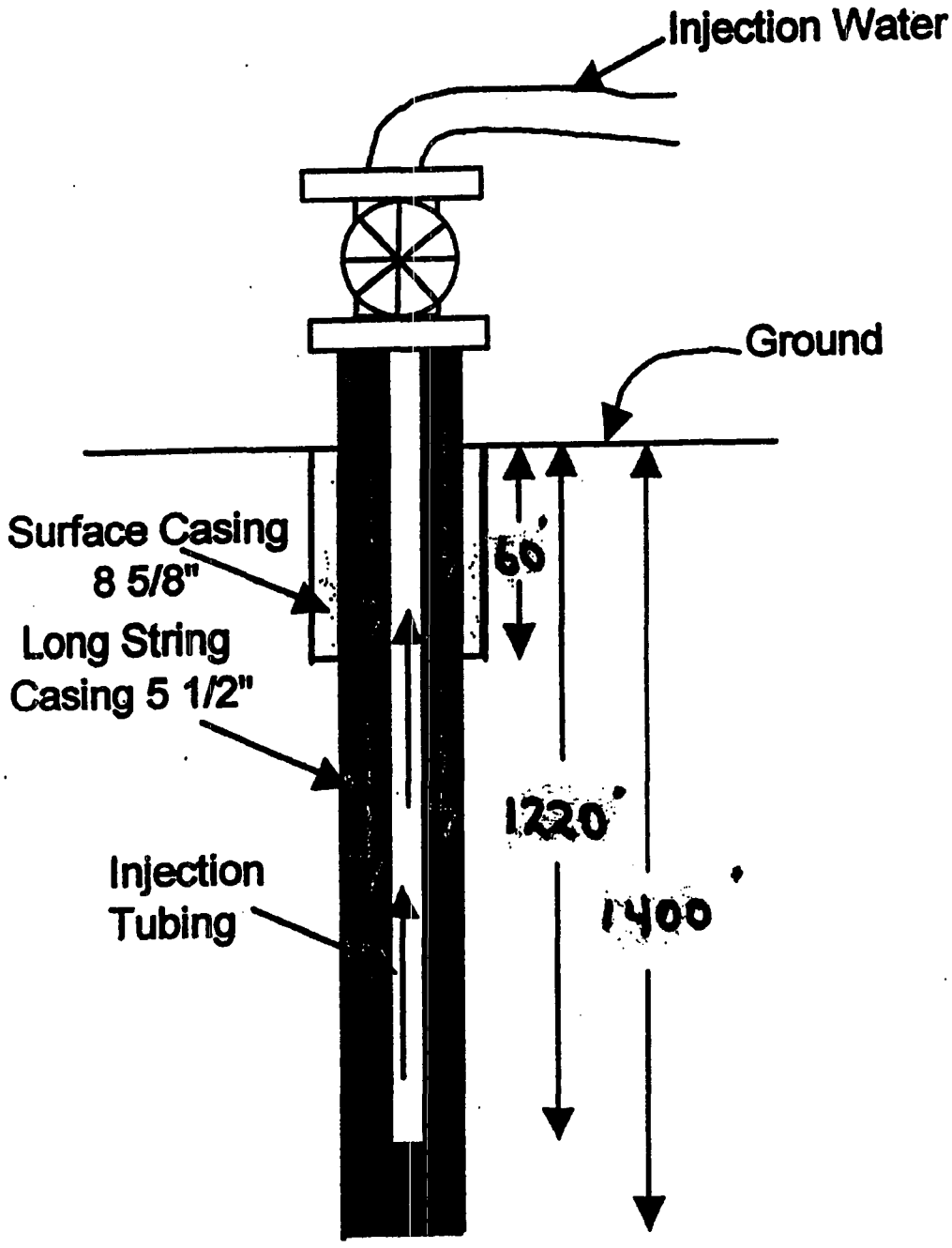

WEST TEXAS WATER WELL SERVICE

3432 W. University Blvd.
Odessa, Texas 79764

(915) 381-2687 Fax (915) 381-7853

IX

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P.O. Drawer A
Jal, NM 88252

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New Mexico Office of the State Engineer
Well Reports and Downloads

IX

Township: 25S Range: 37E Sections: 20

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

[redacted]

WATER COLUMN REPORT 12/11/2001

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

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CP 00557	25S	37E	20	3	3	3				350	42	308

Record Count: 9

New Mexico Office of the State Engineer

Well Reports and Downloads

Township: 25S Range: 37E Sections: 20

NAD27 X: Y: Zone: Search Radius:

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Owner Name: (First) (Last) Non-Domestic Domestic All

WELL / SURFACE DATA REPORT 12/11/2001

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest

DB File Nbr	Use	Diversion	Owner	Well Number	Source	Tws	Rng	Sec	q	q	q	X Y ar Zone
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CP 00428	DOM	3	ANNICE KATHLEEN BUTTER	CP 00428		25S	37E	20	1			
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CP 00620	DOM	3	D. E. BAILEY	CP 00620	Shallow	25S	37E	20	1	3	3	
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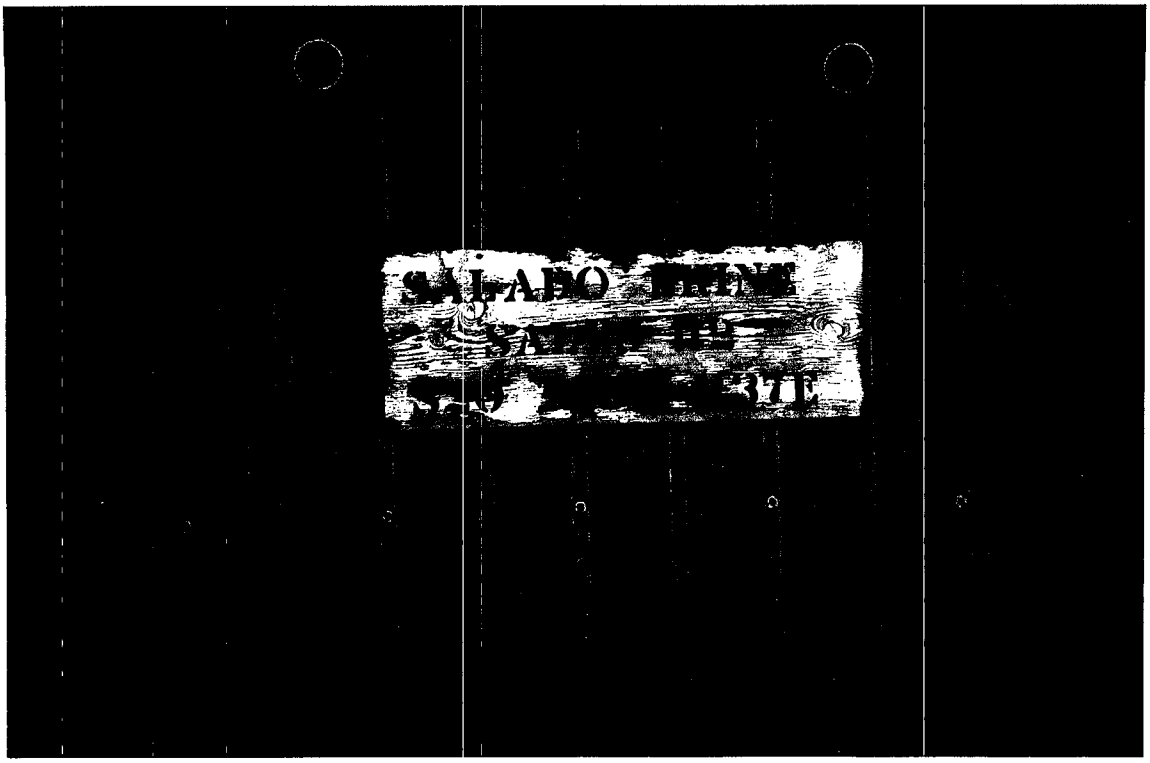
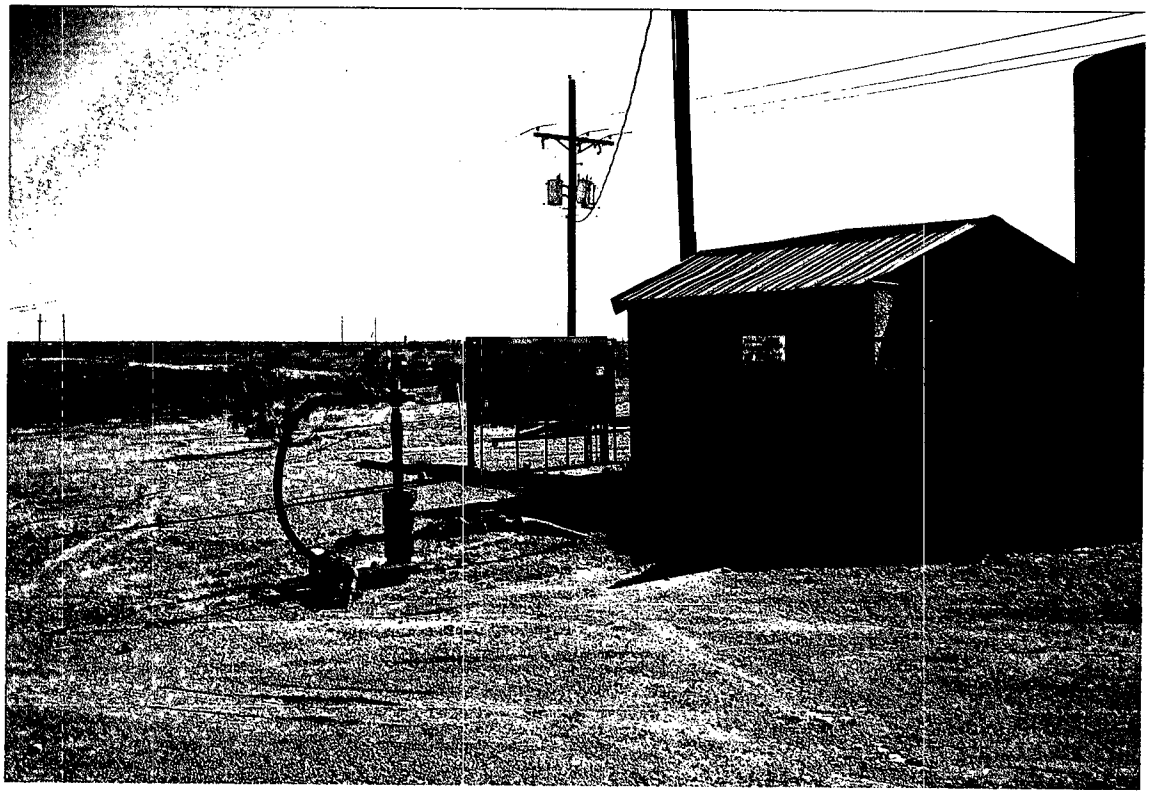
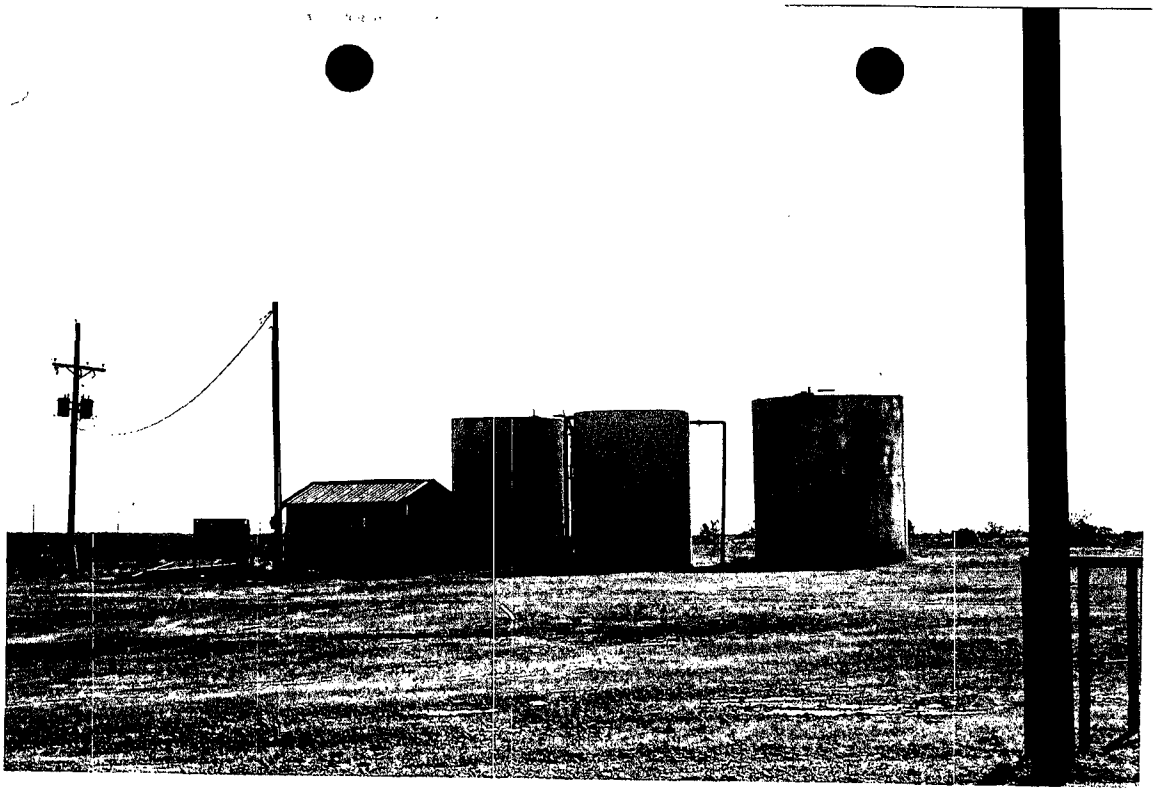
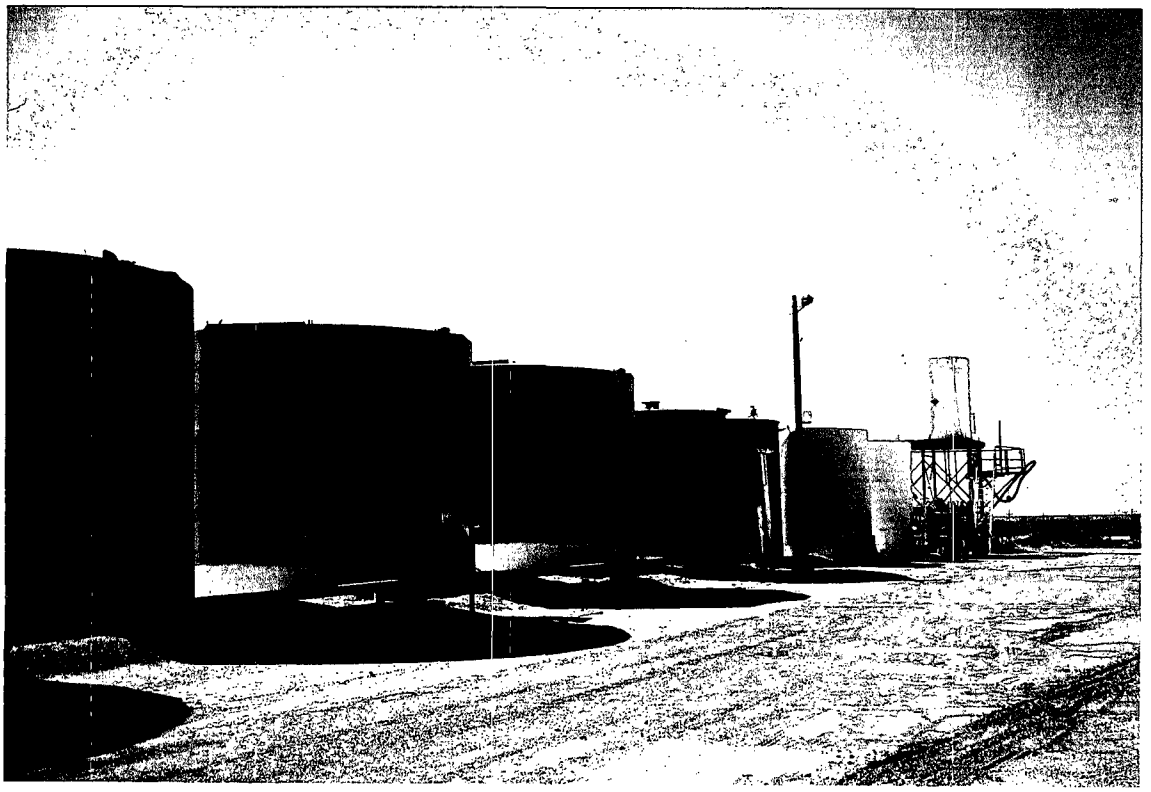
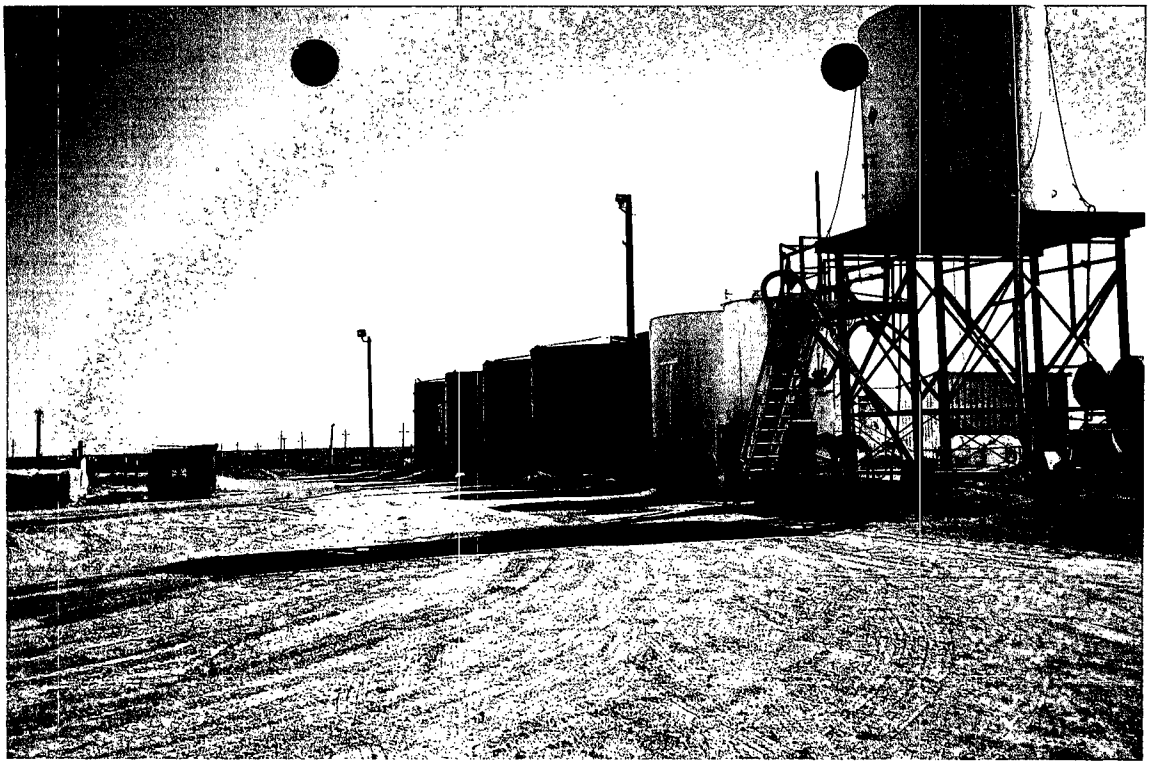
Record Count: 9

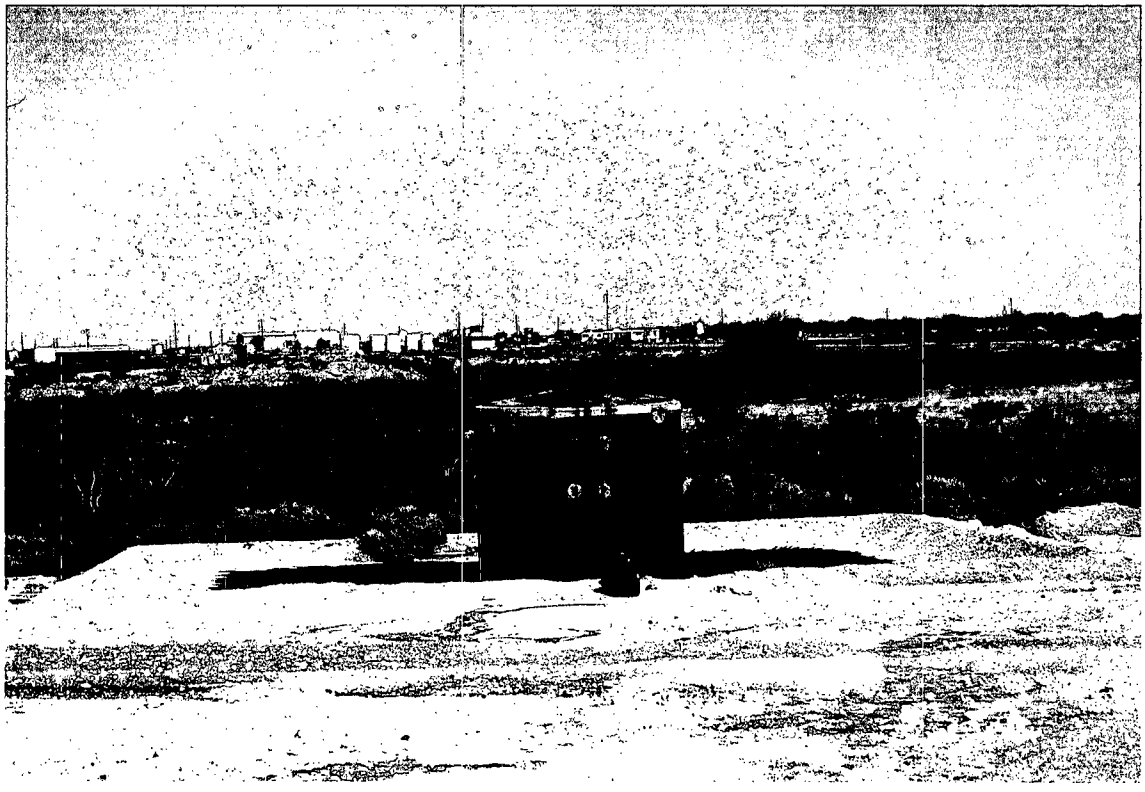

SALADO

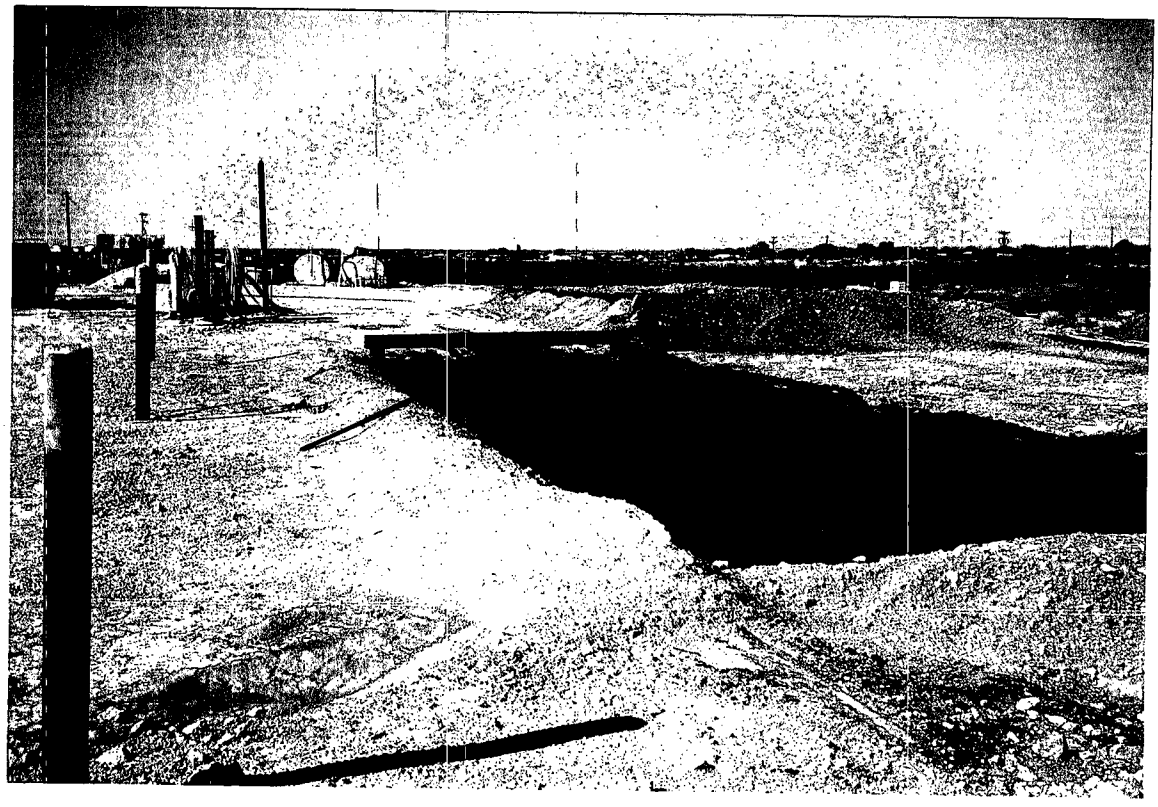












FAX To: 505-394-2426

Price, Wayne

From: Price, Wayne
Sent: Tuesday, June 24, 2003 3:09 PM
To: 'chapser@cs.com'
Cc: Williams, Chris
Subject: Jal Brine Well Operations BW-025

Dear Mr. Prather:

Please provide OCD with the current status and your proposed plans for this facility within 10 days. Your current discharge plan expires on Sept 01, 2003. If you plan on continual operations please submit a discharge plan renewal application along with a $100 filing fee.

Sincerely:

Wayne Price
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505
505-476-3487
fax: 505-476-3462
E-mail: WPRICE@state.nm.us

Tracking:	**Recipient**	**Read**
	'chapser@cs.com'	
	Williams, Chris	Read: 6/24/2003 3:10 PM

P. 01

TRANSACTION REPORT

JUN-24-2003 TUE 03:32 PM

FOR:

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JUN-24	03:31 PM	915053942426	40"	1	SEND	OK	063	

TOTAL : 40S PAGES: 1

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Santa Fe, NM 87505
505-476-3487
fax: 505-476-3462
E-mail: WPRICE@state.nm.us

Analytical Laboratory Report for:

Chapparal

BJ Unichem Chemical Services

UNICHEM Representative: Joe Hay

Partial Water Analysis

Listed below please find water analysis report from: Salado, #3

Lab Test No: 2002142998 **Sample Date:** 11/19/2002

Specific Gravity:

TDS:

pH: 7.39

Cations:	mg/L	as:
Calcium	89.00	(Ca^{++})
Magnesium	31.00	(Mg^{++})
Sodium	85	(Na^{+})
Iron	0.08	(Fe^{++})
Barium	0.02	(Ba^{++})
Strontium	1.64	(Sr^{++})
Manganese	0.00	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	227	(HCO_3^-)
Sulfate	220	($SO_4^=$)
Chloride	100	(Cl^-)
Gases:		
Carbon Dioxide		(CO_2)
Hydrogen Sulfide		(H_2S)

Lab measured pH

Lab measured alkalinity

Fresh water well around Salado -

Dave

Price, Wayne

From: Price, Wayne
Sent: Friday, December 06, 2002 4:16 PM
To: 'chapsev@cs.com'
Cc: Williams, Chris; Sheeley, Paul; Johnson, Larry; Dickey, Sylvia
Subject: Salado Brine Well #2 BW-025

Contacts: Paul Prather

Dear Mr. Prather:

The OCD is in receipt of your letter dated November 26, 2002 informing OCD that Chapparral Services has temporarily shut down the brine well operations in Jal, Nm. Please provide OCD a report within 6 months of your proposed intentions. Chaparral must demonstrate that the well system has integrity before assuming operations again. If you have any questions please do not hesitate to call or write.

Sincerely:

Wayne Price
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505
505-476-3487
fax: 505-476-3462
E-mail: WPRICE@state.nm.us

SALADO BRINE SALES

Drawer A

Jal, New Mexico 88252

(505) 395-2010

January 8, 1998

New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Attention: Mark Ashley

Re: Salado Brine Sales-Fluid volumes

Dear Mark,

I am submitting a report for the year 1997 of fresh water injected and brine water sold. This report will only cover the last 3 quarters, as the meter was installed backwards for the first quarter.

	Gallons Brine Sold	Gallons Fresh Injected
First Quarter	4,957,260	5,000,158
Second Quarter	3,150,126	3,743,813
Fourth Quarter	2,645,496	2,082,036
TOTAL	10,752,882	10,826,007

If you have any questions, please give me a call.

Cordially,

Christine Brininstool
Office Manager

Chaparral Service Inc.
SCC NM 841-1

☆ Phone (505) 394-2545 ☆ West Texas Ave. ☆ P.O. Drawer 1769 ☆ Eunice, New Mexico 88231 ☆
Jal (505) 395-2010
(505) 397-3044
FAX# (505) 394-2426

November 26, 2002

New Mexico Oil Conservation Division
1220 S. St. Frances Drive
Santa Fe, NM 87505

RE: Salado brine well #2

Dear Sirs:

Chaparral Service Inc. has closed Salado brine well #2 down until we decide what we need to do to satisfy Chaparral and the OCD.

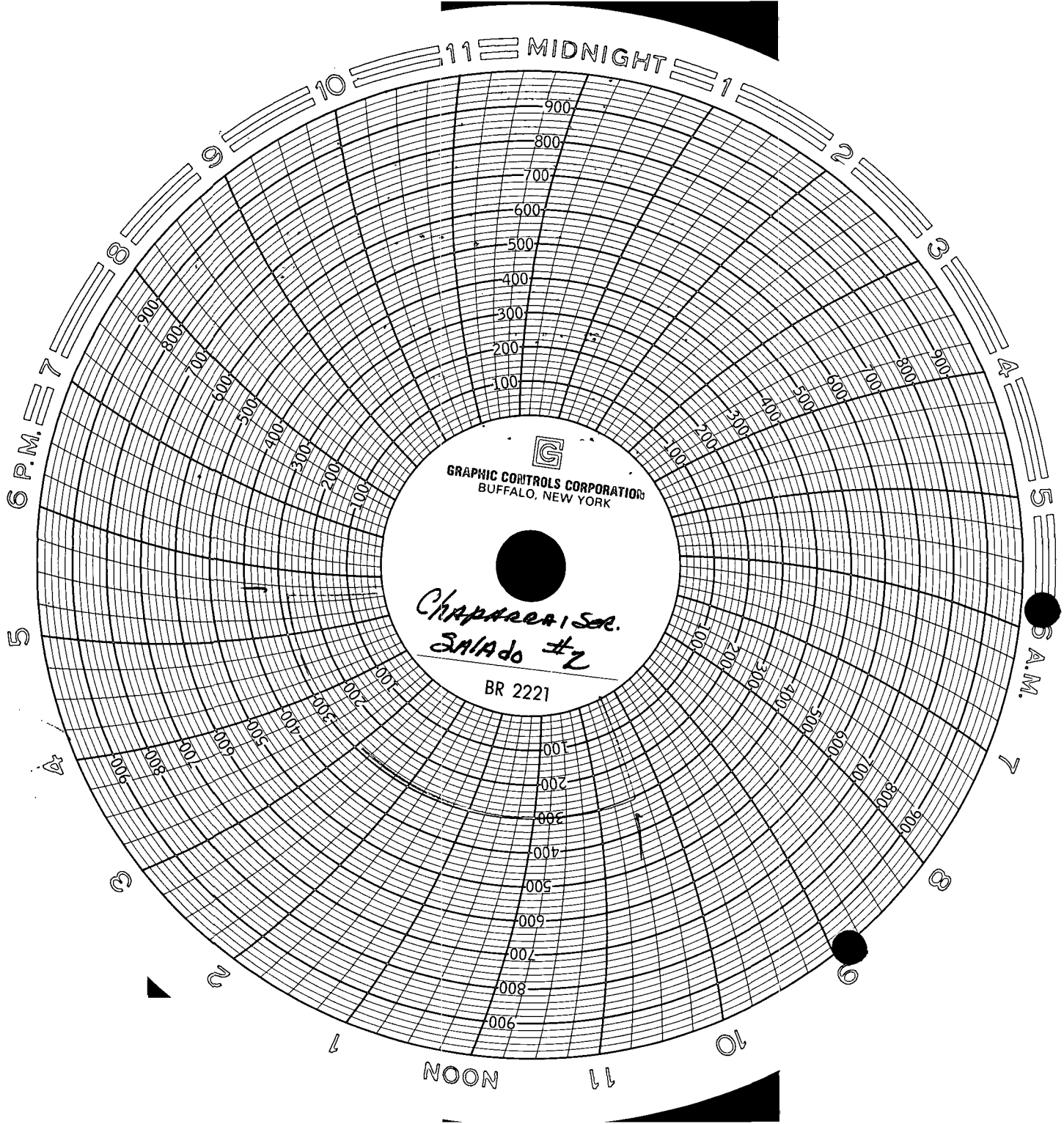
Last year at this time we spent $46,000.00 and Steve Prather, vice president and Paul Prather, president of Chaparral Service are checking to see if it is productive enough to work on. We are just not selling that much brine water in the Jal area at this time.

What we will have to do is rig up pulling unit, cut well off, pull tubing, rent RBP, run in hole and set and install new well head, pressure up to 300# for 4 hours so that OCD can witness the test and if it tests ok we will unseal RBP, pull tubing, take RBP off and run tubing back into the hole. Then we will start injecting water to load the cavity and monitor the water going into well and the amount of water returned. If the balance of the water is not too great I think we should produce it. If the fresh water overruns the amount of brine water returned, by a large volume, I think we should plug the well.

I Remain,

Paul Prather, President
Chaparral Service, Inc.

cc: Hobbs Division
Mr. Johnson
Sylvia


MIDNIGHT
NOON
6 P.M.
6 A.M.
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Chapparelsa.
Salado #2
BR 2221

A. Chaparral Serv. Inc
Salado #2
B Cavern - Water BW 025
C. Sec 20-25A-37E
API # 30-025-32394
D. No Packer 11-15-02
E- 10:15 - 2:15
Paul Prather
Paul Prather
OCD

February 7, 2002

NMOCD Environmental Bureau
ATTN: Wayne Price
Box 6429
1220 S. Saint Francis Drive
Santa Fe, NM 87504

RE: Chaparral Service, Salado Brine
Jal, NM

Mr. Price:

In response to the recent MIT on the Chaparral Salado #2 brine well, the OCD requested Chaparral to submit a plan for monitoring the groundwater at its facility. Find within plan and attached information.

1) Chaparral research the State Engineers file to identify water wells within close proximity to its brine well.
2) A map was constructed of the wells within its area of review, and measurements to these wells from the brine well.
3) A log of the formation showing ground water.
4) A contour map of the water table showing the gradient to be south-southwest.
5) Recent analytical of the four closest water wells.

Upon review of the data, Chaparral proposed to monitor the four close water wells by collecting samples twice a year and analyzing the water for Cations and Anions. Chaparral will submit this data and report of inspection to the OCD. If any changes are found in the analytical data, Chaparral will notify the OCD immediately and set forth an investigation as the OCD requires. Chaparral is submitting this recent analytical as a base line for comparing future samples. If the OCD approves of this plan, Chaparral will begin testing as directed.

If you need additional information or have any questions, please call.

Sincerely,

Eddie W. Seay

Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(505)392-2236

TABLE OF CONTENTS

New Mexico Office of the State Engineer

Well Reports and Downloads

Township: 25S Range: 37E Sections: 20

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | WATERS Menu | Help

WATER COLUMN REPORT 12/11/2001

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

Well Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)
CP 00428	25S	37E	20	1						90	60	30
CP 00620	25S	37E	20	1	3	3				59	25	34
CP 00661	25S	37E	20	1	3	3				38	23	15
CP 00120	25S	37E	20	2	3	1				460		
CP 00124	25S	37E	20	2	4	1				530		
CP 00121	25S	37E	20	2	4	3				510		
CP 00619	25S	37E	20	3	1					48	25	23
CP 00777	25S	37E	20	3	2	4				100	28	72
CP 00557	25S	37E	20	3	3	3				350	42	308

Record Count: 9

New Mexico Office of the State Engineer

Well Reports and Downloads

Township: 25S Range: 37E Sections: 20

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | WATERS Menu | Help

WELL / SURFACE DATA REPORT 12/11/2001

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest

DB File Nbr	Use	Diversion	Owner	Well Number	Source	Tws	Rng	Sec	q	q	q	X Y ar Zone
CP 00120	COM	31.2	CHAPARRAL SERVICES, INC.	CP 00120		25S	37E	20	2	3	1	
CP 00121	COM	15.6	CHAPARRAL SERVICES, INC.	CP 00121		25S	37E	20	2	4	3	
CP 00124	COM	31.2	CHAPARRAL SERVICES, INC.	CP 00124		25S	37E	20	2	4	1	
CP 00428	DOM	3	ANNICE KATHLEEN BUTTER	CP 00428		25S	37E	20	1			
CP 00557	DOM	3	LUCILLE BOCK WEBB	CP 00557	Shallow	25S	37E	20	3	3	3	
CP 00619	DOM	3	JOHN T. SWINFORD	CP 00619	Shallow	25S	37E	20	3	1		
CP 00620	DOM	3	D. E. BAILEY	CP 00620	Shallow	25S	37E	20	1	3	3	
CP 00661	DOM	3	D. E. BAILEY	CP 00661	Shallow	25S	37E	20	1	3	3	
CP 00777	DOM	3	GUAN D. MILLER	CP 00777	Shallow	25S	37E	20	3	2	4	

Record Count: 9

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 25S Range: 37E Sections: 21

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report

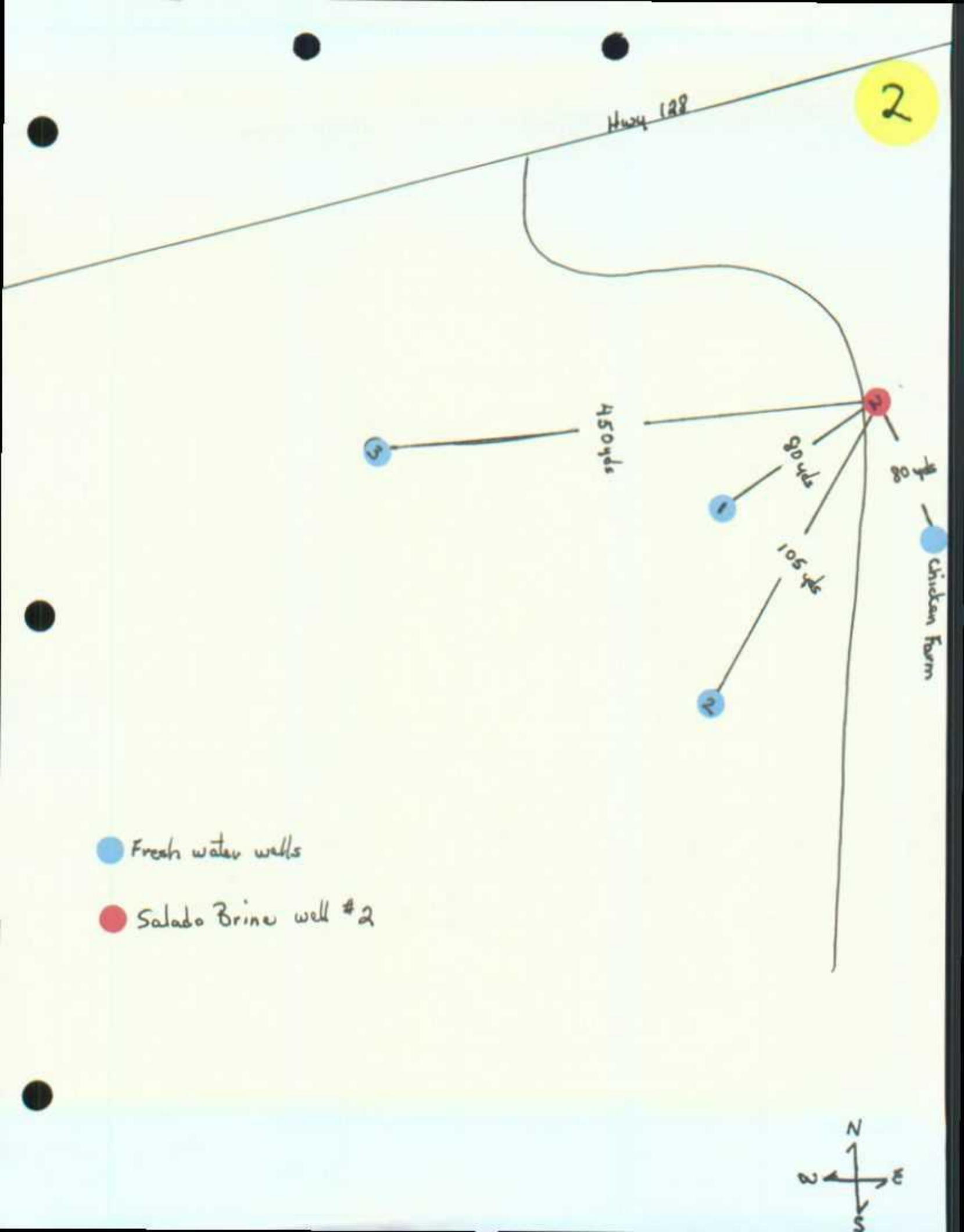
Clear Form | WATERS Menu | Help

WATER COLUMN REPORT 02/07/2002

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

Well Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column (in feet)

No Records found, try again


2
Hwy 128
450 yds
90 yds
80
105 yds
Chicken Farm
3
1
2
Fresh water wells
Salado Brine well #2
N
W
E
S

WEST TEXAS WATER WELL SERVICE

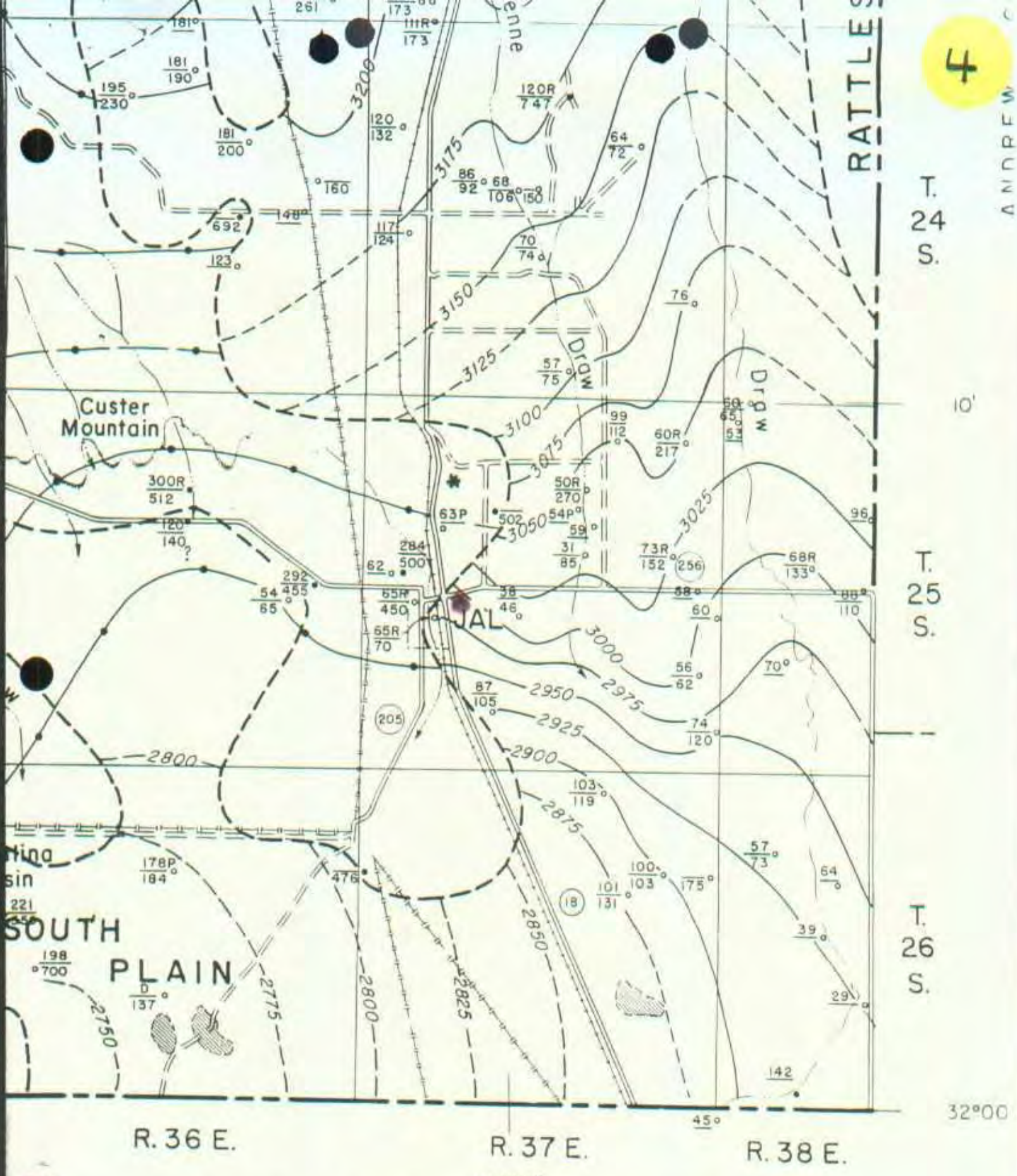
3432 W. University Blvd.
Odessa, Texas 79764

(915) 381-2687 Fax (915) 381-7853

3

XL Transportation
P.O. Drawer A
Jal, NM 88252

0	1	Topsoil
1	12	Broken caliche
12	15	Granite
15	40	Red sand
40	60	Gray & red shale
60	120	Red bed
120	130	Blue shale
130	137	Brown lime
137	145	Red & brown rock - hard
145	165	Gray shale
165	175	Red bed
175	205	Brown shale w/streaks of gray
205	325	Red bed
325	340	Brown lime, medium
340	355	Red sand & water
355	485	Hard red sandy shale
485	495	Red rock
495	525	Brown sand & water
525	580	Red bed
580	600	Red rock
600	675	Red bed
675	1025	Red rock & anhydrite
1025	1080	Gray lime
1080	1095	Anhydrite
1095	1125	Red sand
1125	1140	Gray lime
1140	1185	Salt & anhydrite
1185	1230	Blue shale
1230	1240	Anhydrite & potash, some salt
1240	140	Salt


4
RATTLESNAKE
ANDREWS
Draw
Draw
Custer Mountain
JAL
SOUTH PLAIN
T. 24 S.
T. 25 S.
T. 26 S.
10'
32°00
R. 36 E.
R. 37 E.
R. 38 E.
103°10'
WINKLER COUNTY
3200
3175
3150
3125
3100
3075
3050
3025
3000
2975
2950
2925
2900
2875
2850
2825
2800
2775
2750
Compiled by Alfred Clebsch, Jr., 1960, using data collected mainly by Alexander Nicholson, Jr., in 1953 and 1954.

EXPLANATION

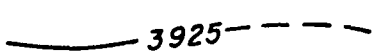
$\frac{150}{252}$ °

Water well

Upper figure is depth to water; lower figure is depth of well. Open circles are wells finished in Tertiary or Quaternary rocks; solid circles are wells finished in Triassic rocks

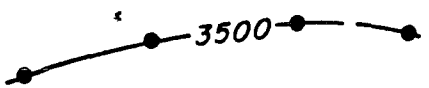
F = Flowing
R = Reported
P = Water level measured while pumping
D = Dry
? = Uncertainty as to aquifer
> = More than
< = Less than

(See tables 6 and 7 for detailed well data.)



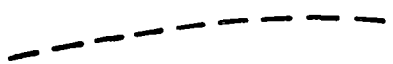
Water-table contour in Tertiary or Quaternary rocks

Dashed where inferred or uncertain. Contour interval 25 feet. Datum mean sea level



Water-table or piezometric contour on water body in Triassic aquifers

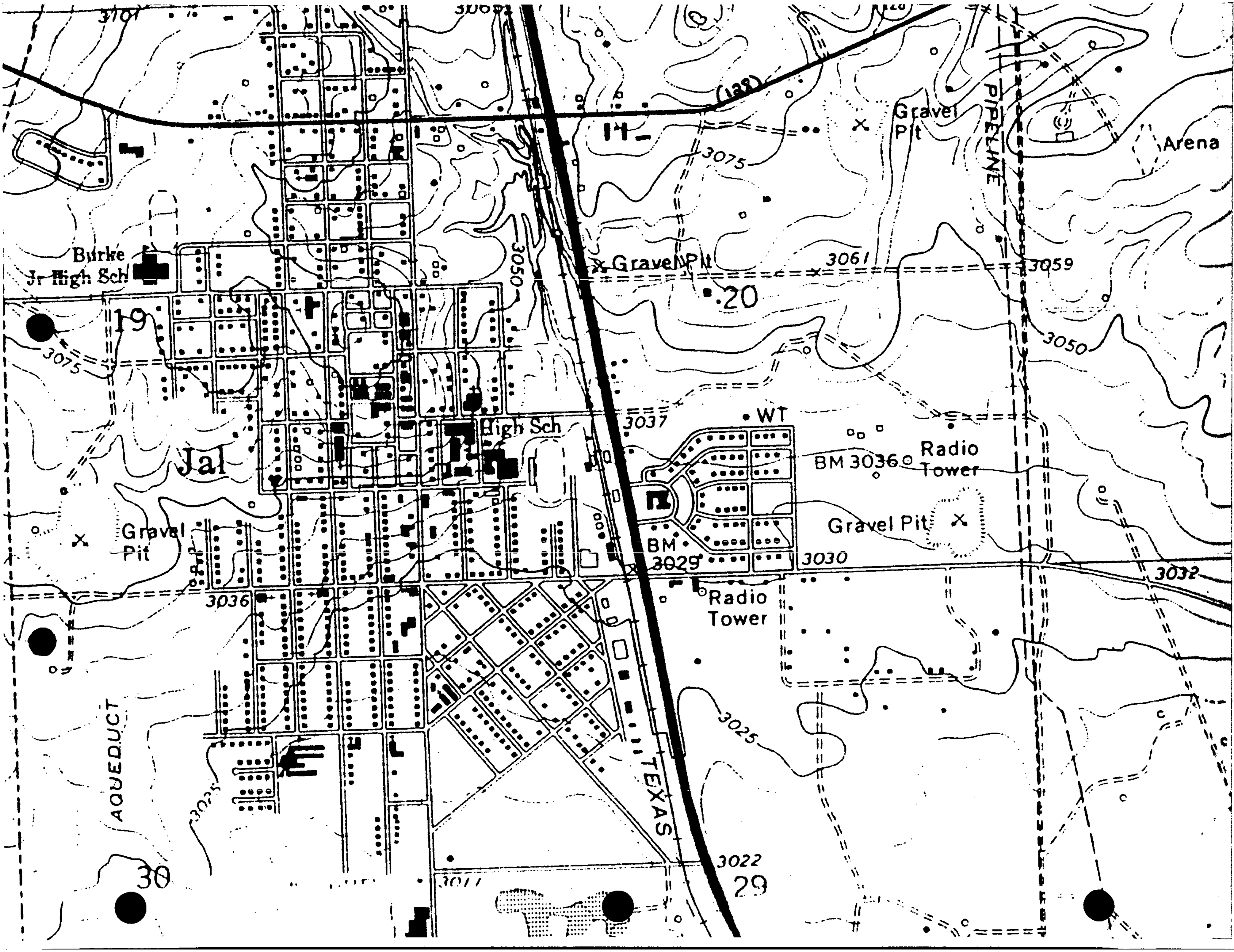
Dashed where inferred or uncertain. Contour interval 100 feet. Datum mean sea level

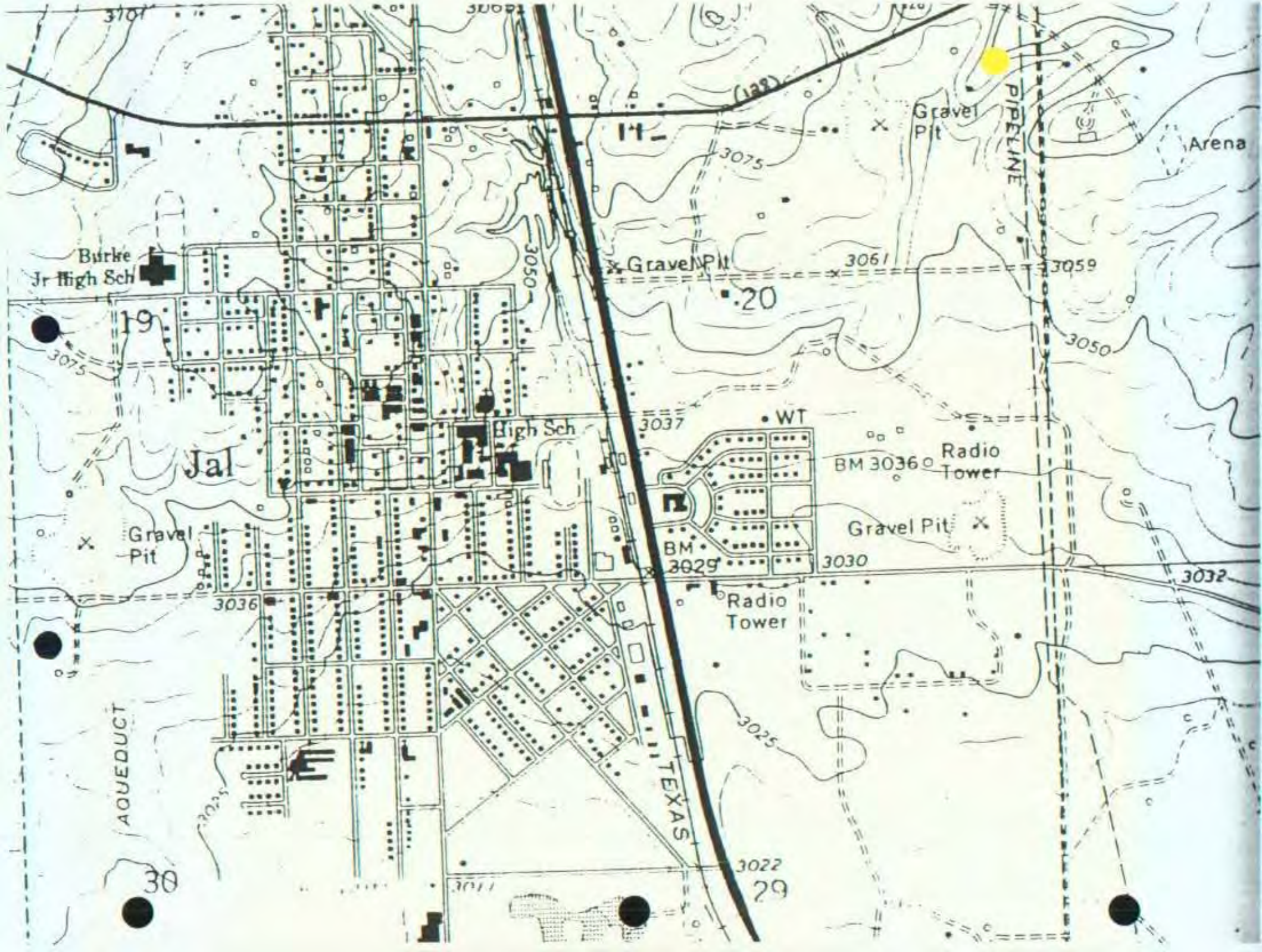


Approximate position of boundary between Triassic rocks and saturated Tertiary and Quaternary rocks

20'

103°10'


3101
(128)
Gravel Pit
PIPELINE
Arena
3075
Burke Jr High Sch
3050
Gravel Pit
3061
3059
20
19
3075
3050
3037
WT
High Sch
Jal
Radio Tower
BM 3036
Gravel Pit
Gravel Pit
BM 3029
3030
3032
3036
Radio Tower
AQUEDUCT
3025
TEXAS
3022
30
29


3101
(128)
14
Gravel Pit
PIPELINE
Arena
3075
Burke Jr High Sch
Gravel Pit
3061
3059
3050
20
19
3075
3037
WT
High Sch
Jal
BM 3036
Radio Tower
Gravel Pit
Gravel Pit
BM 3029
3030
3032
3036
Radio Tower
AQUEDUCT
3025
TEXAS
3022
30
29

Analytical Laboratory Report for:

Chapparal

BJ Unichem Chemical Services

UNICHEM Representative: Joe Hay

Partial Water Analysis

5

Listed below please find water analysis report from: Salad, #1

Lab Test No:	**2001143071**	**Sample Date:**	**11/08/2001**

pH: 7.57

Cations:	mg/L	as:
Calcium	47.59	(Ca^{++})
Magnesium	50.14	(Mg^{++})
Sodium	262	(Na^{+})
Iron	0.22	(Fe^{++})
Barium	0.07	(Ba^{++})
Strontium	1.98	(Sr^{++})
Manganese	0.00	(Mn^{++})

Anions:	mg/L	as:
Bicarbonate	428	(HCO_3^{-})
Sulfate	300	$(SO_4^{=})$
Chloride	175	(Cl^{-})

Gases:	
Carbon Dioxide	(CO_2)
Hydrogen Sulfide	(H_2S)

Comments:
:Laboratory Measured pH :Laboratory Measured Bicarbonate

Analytical Laboratory Report for:

Chapparal

BJ Unichem Chemical Services

UNICHEM Representative: Joe Hay

Partial Water Analysis

Listed below please find water analysis report from: Salad, #2

Lab Test No: 2001143072 **Sample Date:** 11/08/2001

pH: 7.57

Cations:	mg/L	as:
Calcium	48.04	(Ca^{++})
Magnesium	51.38	(Mg^{++})
Sodium	251	(Na^{+})
Iron	0.34	(Fe^{++})
Barium	0.11	(Ba^{++})
Strontium	2.00	(Sr^{++})
Manganese	0.01	(Mn^{++})

Anions:	mg/L	as:
Bicarbonate	420	(HCO_3^{-})
Sulfate	275	$(SO_4^{=})$
Chloride	190	(Cl^{-})

Gases:	
Carbon Dioxide	(CO_2)
Hydrogen Sulfide	(H_2S)

Comments:
:Laboratory Measured pH :Laboratory Measured Bicarbonate

Analytical Laboratory Report for:

Chapparal

BJ Unichem Chemical Services

UNICHEM Representative: Joe Hay

Partial Water Analysis

Listed below please find water analysis report from: Salad, #3

Lab Test No:	2001143073	Sample Date:	11/08/2001

pH: 7.50

Cations:	mg/L	as:
Calcium	48.29	(Ca^{++})
Magnesium	50.34	(Mg^{++})
Sodium	245	(Na^{+})
Iron	0.14	(Fe^{++})
Barium	0.05	(Ba^{++})
Strontium	1.99	(Sr^{++})
Manganese	0.00	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	427	(HCO_3^{-})
Sulfate	275	$(SO_4^{=})$
Chloride	180	(Cl^{-})
Gases:		
Carbon Dioxide		(CO_2)
Hydrogen Sulfide		(H_2S)

Comments:
:Laboratory Measured pH :Laboratory Measured Bicarbonate

Analytical Laboratory Report for:

Chapparal

BJ Unichem Chemical Services

UNICHEM Representative: Joe Hay

Partial Water Analysis

Listed below please find water analysis report from: Jal Chicken House, FWW

Lab Test No:	**2001145392**	**Sample Date:**	**11/28/2001**

pH: 6.99

Cations:	mg/L	as:
Calcium	101.00	(Ca^{++})
Magnesium	34.00	(Mg^{++})
Sodium	74	(Na^{+})
Iron	0.20	(Fe^{++})
Barium	0.08	(Ba^{++})
Strontium	1.80	(Sr^{++})
Manganese	0.00	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	245	(HCO_3^{-})
Sulfate	275	($SO_4^{=}$)
Chloride	106	(Cl^{-})
Gases:		
Carbon Dioxide		(CO_2)
Hydrogen Sulfide		(H_2S)

Price, Wayne

From: Martin, Ed
Sent: Monday, April 08, 2002 4:01 PM
To: Mull, Donna
Cc: Price, Wayne
Subject: Chaparral

OK. The bond is now in ONGARD.

Ed Martin
Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

Price, Wayne

From: Mull, Donna
Sent: Monday, April 08, 2002 3:46 PM
To: Price, Wayne
Subject: RE: Salado Brine Sales to Chaparral Services API 30-025-32394

We have to have the bond in ONGARD for us to change the operator.

-----Original Message-----
From: Price, Wayne
Sent: Monday, April 08, 2002 10:45 AM
To: Martin, Ed; Mull, Donna
Cc: Phillips, Dorothy
Subject: RE: Salado Brine Sales to Chaparral Services API 30-025-32394

I called the BLM about the ownership of the land this well is on, UL A- Sec 20-Ts25s-37e. According to BLM records this land is not Owned by the BLM. What do we do??

-----Original Message-----
From: Martin, Ed
Sent: Monday, April 08, 2002 8:46 AM
To: Mull, Donna
Cc: Price, Wayne
Subject: Salado Brine Sales to Chaparral Services API 30-025-32394

Donna, we have a bond in effect on this well. I don't think ONGARD will prevent you changing the operator name to Chaparral since the well is on federal land. Let me know if this is not the case when you try to process the C-104. Thanks.

Ed Martin
Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

Price, Wayne

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Ed Martin
Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

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Ed Martin
Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

3 Copies
opriate
Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
3D D25 32394

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
SALADO BRINE WELL

1. Type of Well:
OIL WELL ☐ GAS WELL ☐ OTHER BRINE WELL

2. Name of Operator
CHAPARRAL SERVICE, INC.

8. Well No.
2

3. Address of Operator
BOX 1769 EUNICE, NM 88231

9. Pool name or Wildcat
SALADO

4. Well Location
Unit Letter A : 1305 Feet From The NORTH Line and 60 Feet From The EAST Line

Section 20 Township T-25S Range 37E NMPM LEA County

10. Elevation *(Show whether DF, RKB, RT, GR, etc.)*

11. 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	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	PLUG AND ABANDONMENT	☐
PULL OR ALTER CASING	☐			CASING TEST AND CEMENT JOB	☐		
OTHER:	☐			OTHER:			☐

12. 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. DRILLED OUT C.I. BRIDE PLUG @ 1083'
2. WENT BACK IN HOLE WITH 4 3/4" DRILLING BIT
3. DRILLED DOWN TO 1247' LEFT - BIT ON TUBING
4. PUT BACK IN PRODUCTION - 12-28-01 - MADE 729 BBLS 10.3# BRINE

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Paul Prather TITLE PARTNER DATE 12-29-01

TYPE OR PRINT NAME PAUL PRATHER TELEPHONE NO. 394 2545

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

December 10, 2001

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 5357 7362

Mr. Paul Prather
Chaparral Service, Inc. dba Salado Brine Well #2
P.O. Box 7169
Eunice, NM 88231

Re: Discharge Plan BW-025 Mechanical Integrity
Salado Brine Sales Well #2
NE/4 NE/4 Section 20-Ts25S-R37E
Lea County, New Mexico

Dear Mr. Prather:

On November 13, 2001 the New Mexico Oil Conservation Division (OCD) requested that Chaparral Service, Inc. dba Salado Brine Well #2 (CSI) demonstrate mechanical integrity of the well. OCD understands CSI has made repairs on the surface casing and re-tested. CSI pointed out the fact that fresh water is circulated down the casing thus any minor leakage would not impair groundwater. OCD agrees with this assessment except for times when and if the well is operated in reverse for maintenance reasons and times when the well is pressured up and setting idle, thus brine may flow up the casing and out into other formations, since there is no isolation packer installed.

On November 29, 2001 OCD witnessed the Mechanical Integrity Test for the above captioned well (pressure chart attached) and hereby approves of the well test. CSI shall file the appropriate forms with the District office and copies provided to this office to re-enter the well and re-complete it as a brine well and may resume operations pursuant to the conditions contained in the Discharge Plan BW-025. In addition, OCD will require CSI to submit for OCD approval a groundwater-monitoring plan by January 31, 2002 and a plan to address the issues noted in the last inspection report (copy enclosed) items # 1,2,4,5,10,11, and 12.

Please be advised that NMOCD approval of this well test does not relieve CSI of liability should their operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve CSI of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions please do not hesitate to contact me at 505-476-3487 or E-mail WPRICE@state.nm.us.

Sincerely,

Wayne Price- Engineer
cc: OCD Hobbs Office
Attachments-2

Price, Wayne

From: Dickey, Sylvia
Sent: Tuesday, November 13, 2001 2:06 PM
To: Price, Wayne
Cc: Wrotenbery, Lori; Wink, Gary
Subject: RE: Salado Brine Well #2 - Pressure charts

Wayne,

In regards to the pressure test charts on the Salado #2, I sent you the charts for your information and/or files. Any chart sent to myself or our office is kept as record of the OCD. However, since the Santa Fe office has the authority to approve/disappove the mechanical integrity of **Brine Wells**, I forwarded you a copy for information etc. Honestly, I don't quite remember whether or not Dink Prather instructed me to forward the charts or not.

Have a Wonderful Day!!

Sylvia.

-----Original Message-----
From: Price, Wayne
Sent: Tuesday, November 13, 2001 12:13 PM
To: Wrotenbery, Lori; Anderson, Roger
Cc: Dickey, Sylvia; Williams, Chris
Subject: Salado Brine Well #2 - Pressure charts

Roger and I talked to Mr. Prather on 11/02/01 and it was our understanding that he was going to sample three water wells in close proximity of the brine well and send in a detail explanation, with pressure charts and water analysis to demonstrate mechanical integrity of the well.

I just talked to Sylvia, Mr. Prather brought in four pressure charts to the Hobbs office (not sure when) for the above mentioned well. Sylvia copied the charts and faxed them to me on 11/04/01. Sylvia indicated she wanted to make sure we had copies and it did not appear that Mr. Prather requested her to forward these charts. I will call Sylvia back and check on that issue. There is no explanation with any of the charts.

I will write Mr. Prather a letter today requesting that he demonstrate that the well has mechanical integrity pursuant to WQCC 20.6.2.5204. Once we receive the information we will evaluate it and respond ASAP.

Price, Wayne

From: Price, Wayne
Sent: Tuesday, November 13, 2001 12:12 PM
To: Wrotenbery, Lori; Anderson, Roger
Cc: Dickey, Sylvia; Williams, Chris
Subject: Salado Brine Well #2 - Pressure charts

Roger and I talked to Mr. Prather on 11/02/01 and it was our understanding that he was going to sample three water wells in close proximity of the brine well and send in a detail explanation, with pressure charts and water analysis to demonstrate mechanical integrity of the well.

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I will write Mr. Prather a letter today requesting that he demonstrate that the well has mechanical integrity pursuant to WQCC 20.6.2.5204. Once we receive the information we will evaluate it and respond ASAP.

OCD ENVIRONMENTAL BUREAU

SITE INSPECTION SHEET

390-1437

DATE: 12/19/00 Time: 10 AM

Type of Facility: Refinery ☐ Gas Plant ☐ Compressor St. ☐ Brine St. ☑ Oilfield Service Co. ☐
Surface Waste Mgt. Facility ☐ E&P Site ☐ Crude Oil Pump Station ☐
Other ☐_____

Discharge Plan: No ☐ Yes ☑ DP# BW-025

FACILITY NAME: SALADO #2 NO API #

PHYSICAL LOCATION: 2 mi E of JAL NM

Legal: QTR___QTR___ Sec 20 TS 25S R 37E County LEA

OWNER/OPERATOR (NAME) CHAPARRAL SER. INC

Contact Person: PAUL PRATHER Tele:#_____

MAILING

ADDRESS:_____State_____ZIP_____

Owner/Operator Rep's:_____

OCD INSPECTORS: W PRICE

1. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.

NEEDS CONTAINMENT - pic #6 SALT STAIN UNDER DRUM RACK

2. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

SOLIDS DRYING PAD SOLID WASTE IS OUTSIDE of PAD & CURB
pic #4

3. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

4. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

CHEMICAL TANKS NEEDS CONTAINMENT - PICTS

5. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.

NEEDS LABELING

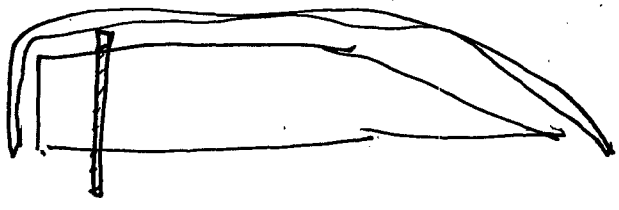
6. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

7. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

8. Onsite/Offsite Waste Disposal and Storage Practices: Are all wastes properly characterized and disposed of correctly? Does the facility have an EPA hazardous waste number? _____ Yes _____ No

ARE ALL WASTE CHARACTERIZED AND DISPOSED OF PROPERLY? YES ☐ NO ☐ IF NO DETAIL BELOW.

- PIT OIL & WATER GOES TO CHAPARRAL SWD DISPOSAL & TREATER
- SOLIDS GO TO PARADO DISPOSAL



9. Class V Wells: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. All Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Closure of Class V wells must be in accordance with a plan approved by the Division's Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, the environment and groundwater as defined by the WQCC, and are cost effective. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

ANY CLASS V WELLS NO ☑ YES ☐ IF YES DESCRIBE BELOW ! Undetermined ☐

10. Housekeeping: All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

NEEDS ATTENION- BRINE STAINS AROUND TANKS pic #2

11. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the proper OCD District Office.

BRINE SPILL FROM OVERFLOW TANK NOT REPORTED.

12. Does the facility have any other potential environmental concerns/issues?

WASH-OUT pit LEAK DETECTOR HAS ≈ 3' FEET FLUID
PIPE IS BROKEN! pic #3

13. Does the facility have any other environmental permits - i.e. SPCC, Stormwater Plan, etc.?

14. ANY WATER WELLS ON SITE ? NO ☐ YES ☑ IF YES, HOW IS IT BEING USED ?

3 WELLS off-SITE

Miscellaneous Comments:

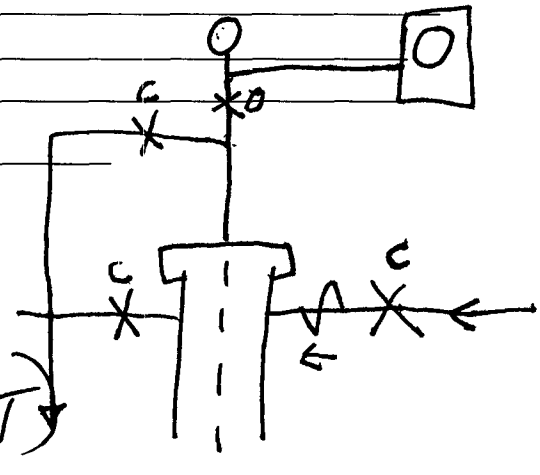
MIT- OPEN HOLE RECORDER 0-1000# 12 HR

GAGE 0-600 START 10 AM 302 PSIG
STOP 272 PSIG

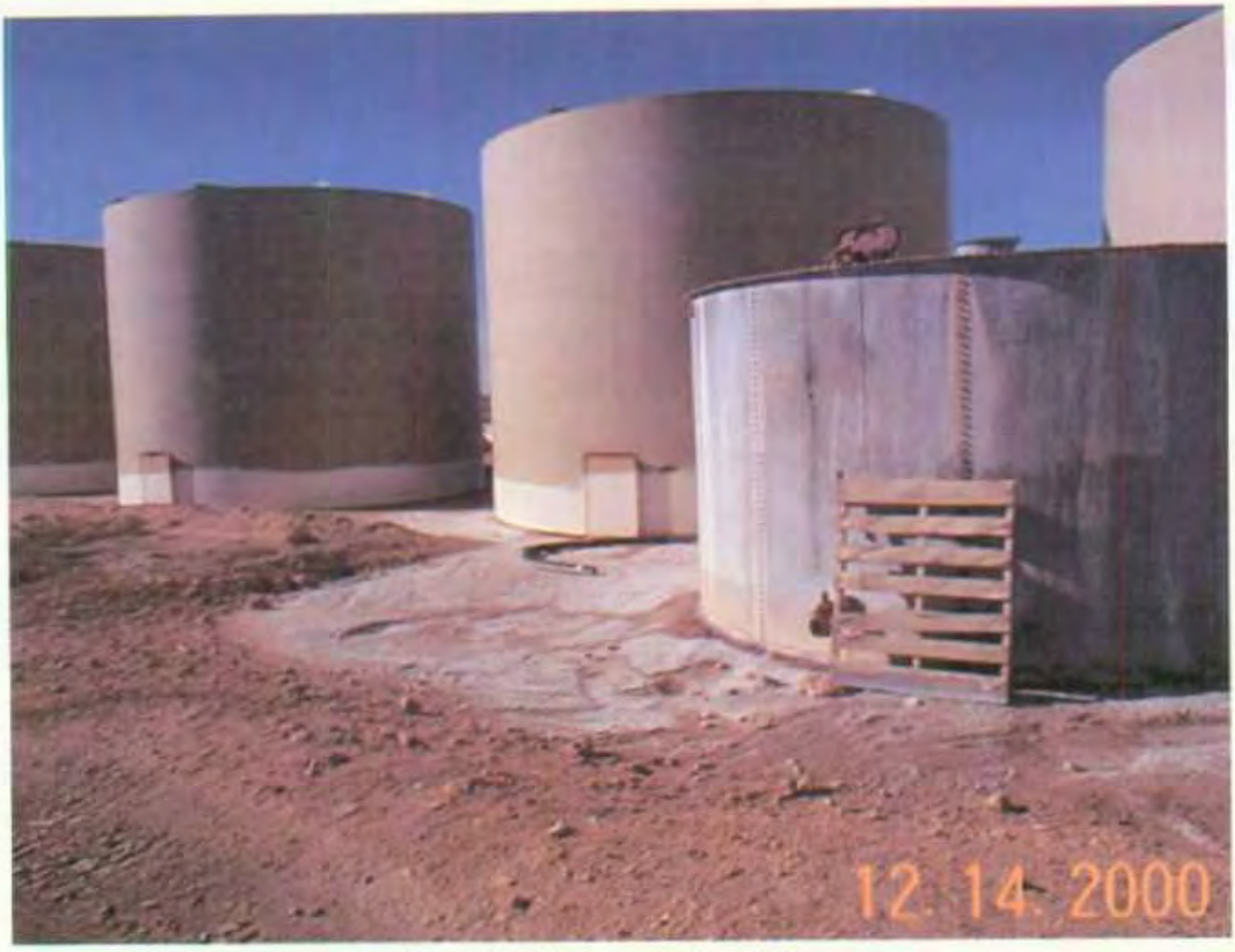
Number of Photos taken at this site: pic # 1 WELL & SIGN
attachments-

OCD Inspection Sheet
Page ___ of ___

SECOND TRY START 2 PM GAGE (TUBING) 270 PSIG
RECORDER ON 6 PM 250 PSIG
CASING ≈ 375 PSIG (FAILED MIT)



Pic#1 SALADO BRINE #2 BW-025



Pic #2 - SALADO BRINE #2 BW-025

Pic # 3- SALADO BRINE #2

Pic # 4 - BW-025 SOLIDS DRYING AREA

PIC #5 BW-025 CHEMICAL STORAGE AREA

pic # 6 - BW-025 ~~SALT~~ SALT STAIN UNDER RACK

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 2/25/00,

or cash received on _____ in the amount of $ 690.00

from CHAPARRAL SERVICE, INC.

for SALADO BRINE WELL #2 BW-025
(Facility Name) (DP No.)

Submitted by: WAYNE PRICE Date: 3/2/00

Submitted to ASD by: [signature] Date: "

Received in ASD by: _____ Date: _____

Filing Fee ___ New Facility ___ Renewal ✓

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 2000

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

[redacted]

CHAPARRAL SERVICE, INC.
P.O. DRAWER 1769
EUNICE, NM 88231

LEA COUNTY STATE BANK
LOVINGTON, NM 88260
95-183-1122

Six Hundred Ninety Dollars & 00 Cents

DATE 2-25-00

AMOUNT $690.00

PAY TO THE ORDER OF NMED-Water Quality Management

BW-025

[signature]

[redacted]

091013/7-95

Security features included. Details on back.

Chaparral Service, Inc.
SCC NM 841-1

☆ Phone (505) 394-2545 ☆ West Texas Ave. ☆ P.O. Drawer 1769 ☆ Eunice, New Mexico 88231 ☆
(505) 394-2811
(505) 397-3044
FAX # (505) 394-2426

November 29, 1999

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

Re: Change of Ownership and Discharge Plan BW-25 Approval

Dear Mr. Price:

Chaparral Service, Inc. has purchased the Salado Brine Well #2 from Quality Service Company in Jal, New Mexico.

Enclosed please find the information you have requested to approve our Discharge Plan #BW-25.

If other information is required, please contact this office.

Sincerely,

Paul D. Prather
President

RECEIVED

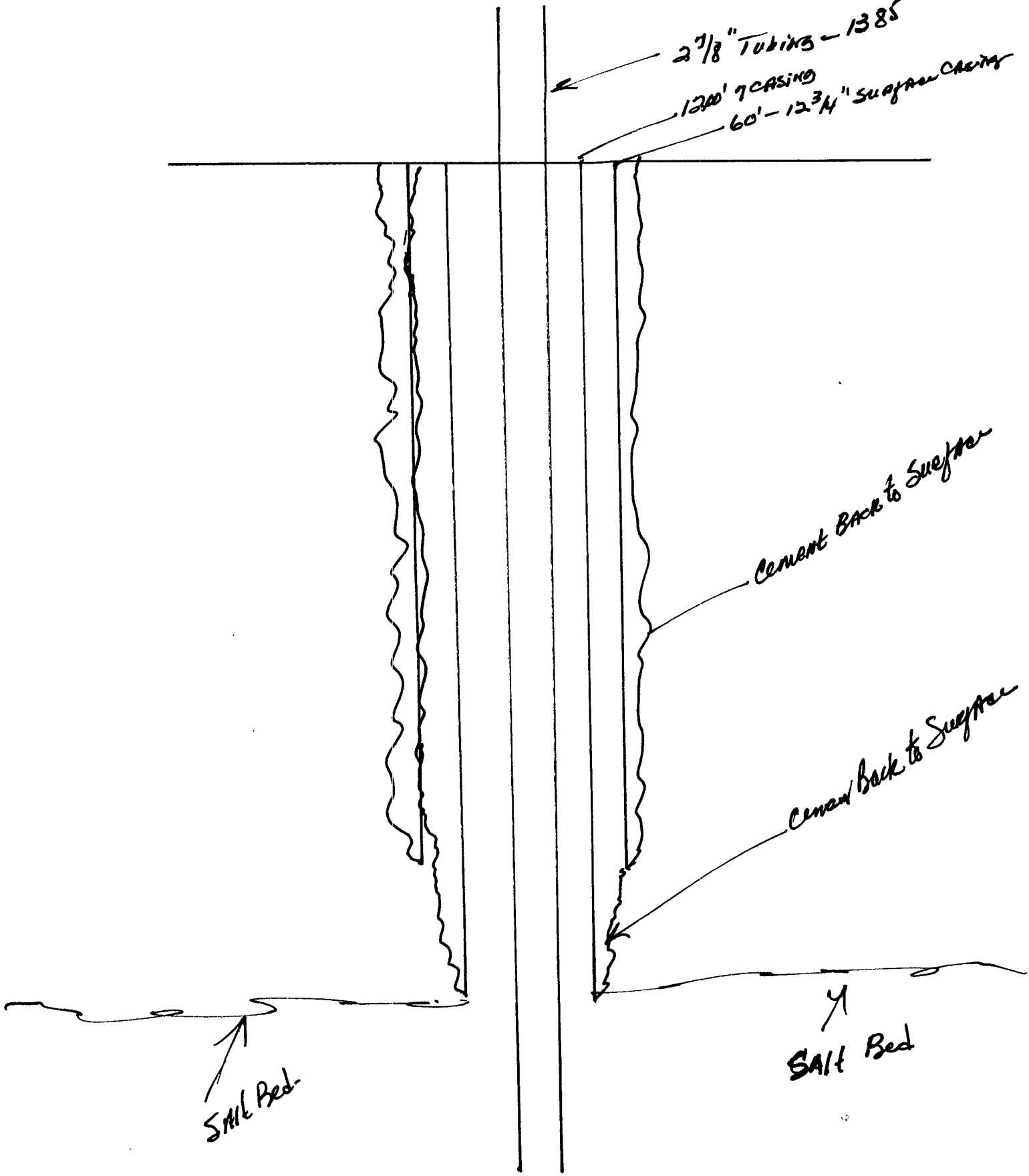
DEC 0 6 1999

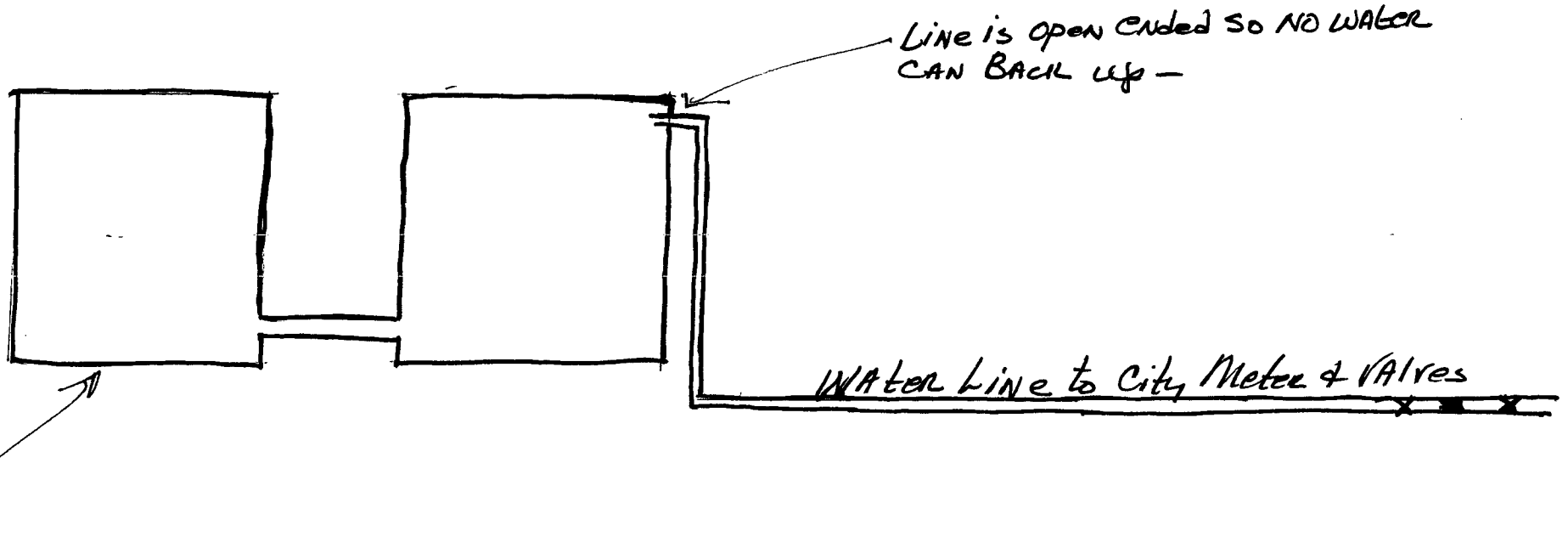
Environmental Bureau
Oil Conservation Division

DISCHARGE PLAN #BW-25

1. One C-104 enclosed. Five copies sent to district office.
2. The original one well plugging bond.
3. Four 1000 bbl. tanks that have been coated, with burms around tanks, one 250 bbl. overflow tank.
4. The four tanks are connected with 6" lines and valves. Load rack at each end.
5. Load racks consist of a 14' X 14' cement pad with 4" drain lines going to catch tank.
6. Below ground drain lines:
   A. Four inch lines are buried 1½ feet deep sloping to 5" lines.
   B. Five inch lines are buried 1½ feet deep sloping to wash out cement pit.
   C. Four inch lines have valves in line for pressure test.
7. The wash out pit is 8' X 30', long sloping from ground level to 8' deep. Drain line goes to 500 bbl. catch tank. The 500 bbl. tank has plastic lined pit with burms.
8. Drying slab consists of a slab of concrete 10' X 30' long with burms with drain back into wash pit. Clean out from wash pit is spread on drying slab to dry, so it can be hauled to Sundance Land Disposal.
9. Plastic line spill - 500 bbl. catch tank set in a plastic line pit with burms to catch water from wash out pit and loading ramps.
10. City water - The city fresh water line goes into the top of tank where line is separated from water. Three fresh water wells on the 91 acres. City water is used only in emergency.
11. Two 300 bbl. tanks of fresh water supply out pump for making brine.
12. One duplex pump - The duplex pump pumps fresh water down casing at 180# pressure for brine water to return through 2 7/8" tubing.
13. Brine well - Surface casing set at 60' and cement circulated to surface. Long string of casing set at 1220' and cement circulated back to surface. Well was drilled to 1400', 2 7/8" tubing set at 1385'.
14. Brine well drawing on next pages.
15. Drawing of fresh water going into storage tanks.
16. Chart of open hole casing test on November 22, 1999 on Salado Brine Well #2, witnessed by Donna Williams - O.C.D. Rep.
17. Under-ground plastic lines were tested to 30# for two hours, test good.
18. Inspection sheets - No report was made by Quality Service Co. Chaparral has started inspection sheet this month.
19. Determine the size and configuration of mine cavity - monitor fresh was injected and brine water produced.
20. Pictures of Salado Brine Station
21. Drawing of plant.

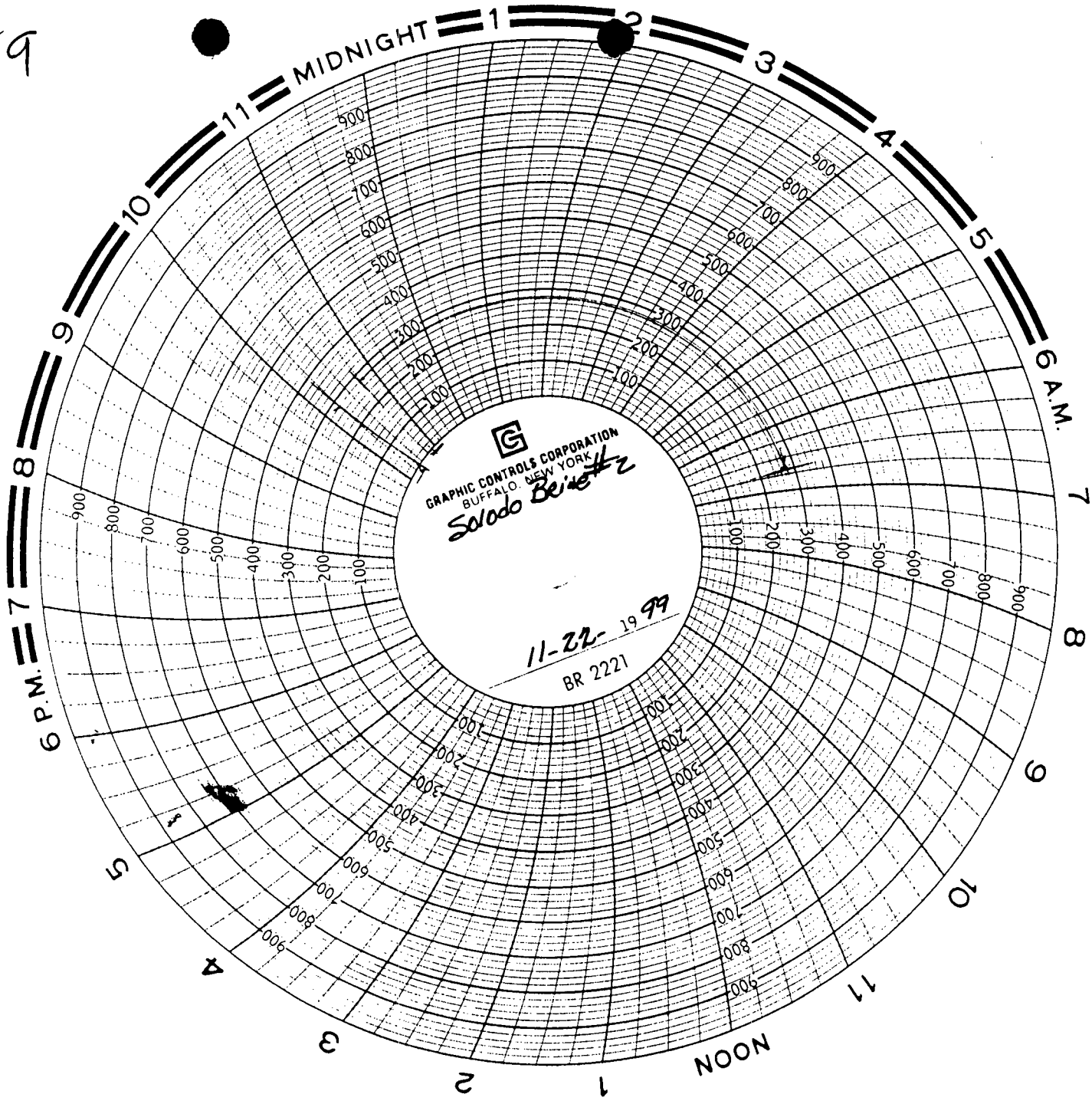
SALADO - BR[redacted] Well #2
Sec. 20 T 25 S R 37E
60' - 14 3/4" surface
1220' 9 7/8" casing from surface to salt -
1385' 2 7/8" Tubing -





2 – 300 Bbls fresh WATER TANKS

#9


MIDNIGHT
1
2
3
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6 A.M.
7
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9
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NOON
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600
700
800
900
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Solado Beide #2
11-22- 1999
BR 2221

#4 Recorder

SAME Chart Recorder we used ON PVS BRINE #1

11-22-99 Chaparral Service INC. Salado Brine Well #2
Discharge PLAN # BW-025
Sec. 20 T 25 S R 37 E
Open hole + Casing Test
PAUL PRATHER
Paul Prather

O.C.D. Rep. Donna Williams
DONNA WILLIAMS

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
CHAPARRAL SERV. INC. dba. SALADO Brine Well #2 P.O. Box 1769 EUNICE, N.M. 88231	[3] Reason for Filing Code CH - 11-1-99

[4] API Number	[5] Pool Name	[6] Pool Code
30 - 025-32394	SALADO	
[7] Property Code	[8] Property Name	[9] Well Number
		#2

II. [10] Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	20	25S	37E		1305	N	60	E	LEA

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
	BRINE				

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] POD	[21] O/G	[22] POD ULSTR Location and Description

IV. Produced Water

[23] POD	[24] POD ULSTR Location and Description

V. Well Completion Data

[25] Spud Date	[26] Ready Date	[27] TD	[28] PBTD	[29] Perforations	[30] DHC, DC,MC

[31] Hole Size	[32] Casing & Tubing Size	[33] Depth Set	[34] Sacks Cement

VI. Well Test Data

[35] Date New Oil	[36] Gas Delivery Date	[37] Test Date	[38] Test Length	[39] Tbg. Pressure	[40] Csg. Pressure

[41] Choke Size	[42] Oil	[43] Water	[44] Gas	[45] AOF	[46] Test Method

[47] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Paul Prather

Printed name: PAUL PRATHER

Title: President

Date: 11-23-99 Phone: 505 394 2545

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

[48] If this is a change of operator fill in the OGRID number and name of the previous operator

Fred Roberson Jr. — Previous Operator Signature

Fred Roberson JR. — Printed Name

Dist Mgr. — Title

11-24-99 — Date


MIDNIGHT
NOON
6 P.M.
6 A.M.
GRAPHIC CONTROLS CORPORATION
Salado Brine
#2
11-23 1999
BR 2221
Mechanical Integrity Pressure
Test on below Ground Lines

Brine Well, Pump house, Fresh water tanks.

Pump House

4- 1000 BBL Brine Tanks

Catch Tank for Brine Tanks

TRASH BIN, LOADING RAMPS + STORAGE TANKS

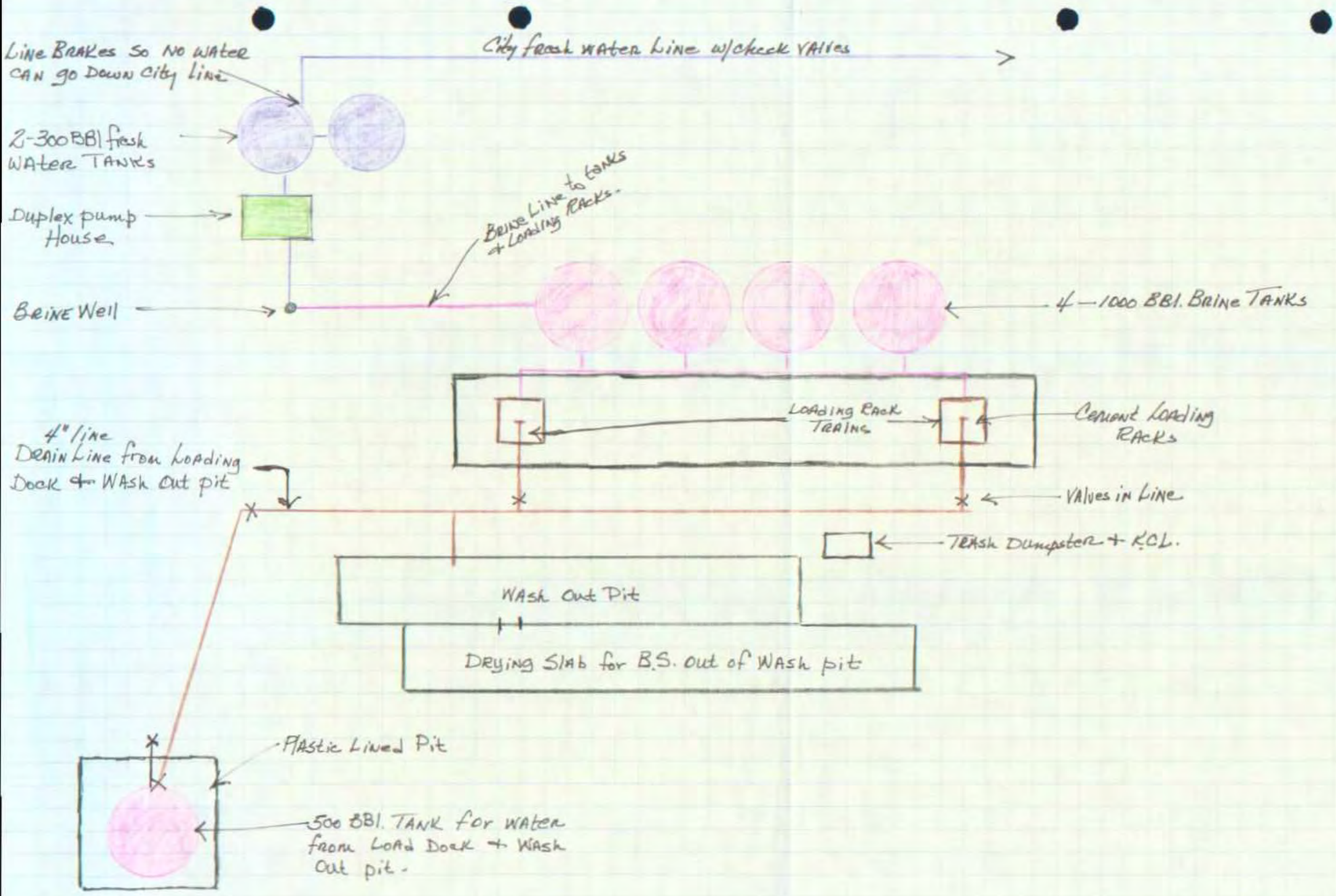
LOADING RAMP WITH 4" DRAIN

WASh Out pit

Cement Slab for Solids Out of WASh Pit

4- 1000 BBL. BRINE TANKS

CATCH TANK for LOADING RAMPS & WASH Out pit.


Line Brakes so No water can go Down City Line
City fresh water Line w/check valves
2-300 BBl fresh water Tanks
Duplex pump House
Brine Line to tanks & Loading Racks.
Brine Well
4-1000 BBl. Brine Tanks
Loading Rack Trains
Cement Loading Racks
4" line Drain Line from Loading Dock to Wash Out pit
Valves in Line
Trash Dumpster + KCL.
Wash Out Pit
Drying Slab for B.S. out of Wash pit
Plastic Lined Pit
500 BBl. Tank for water from Load Dock + Wash Out pit.

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

September 23, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 274 520 506

Mr. Client Wider
Quality Oil Services, Inc.
P.O. Box 1060
Jal, New Mexico 88252

Re: Discharge Plan BW-025 Renewal
Salado Brine Sales No. 2 Brine Station
NE/4 NE/4 Section 20-Ts25S-R37E
Lea County, New Mexico

Dear Mr. Wider:

The New Mexico Oil Conservation Division (NMOCD) is in the process of reviewing the discharge plan renewal application dated July 13, 1999 and subsequent information letter dated July 13, 1999 for the above captioned site. Salado #2 brine system has changed ownership and modifications were made to the system that are not included in the discharge plan file. In order for NMOCD to complete the review of the application for renewal the following information is required:

1. Please submit a detail facility site map depicting location of well, storage tanks, pits, pads, monitoring devices, process equipment, berms, facility property boundaries, and any other relevant objects.

2. Please provide fluid flow schematics for all above and below grade piping systems. Please demonstrate how the City of Jal's fresh water line will be protected from back flow of water contaminants.

3. Please provide a detail well bore schematic for the brine well.

4. List all fluid and solid products produced, stored or used at the facility. Include source, average daily volume produced, estimated volume stored, location, type and size of containers, and secondary containment systems.

5. List all waste generated, stored or disposed of at the facility. Include source, average daily volume produced, estimated volume stored, location and type of containment.

6. List all waste that are disposed of off-site. Indicate general composition (e.g. waste oils, sludges, fluids, solids, etc.), method of shipment, and final disposition.

7. Please provide the fracture pressure of the salt producing formation and provide the average and maximum injection pressures of the system.

8. Please provide to NMOCD the last six months inspection sheets for the wash-out pit monitor well.

9. Please provide the results of a casing mechanical integrity test for the brine well. Please note Quality Oil Services, Inc. was notified on September 11, 1999 to schedule and perform this test on October 27, 1999 starting at 8 am. Please have the cavern isolated from the casing/tubing annuals and pressure test casing at 300 psig for 30 minutes. The NMOCD will witness this test. If you have any questions concerning this procedure please call OCD, Wayne Price at 505-827-7155.

10. Please submit to NMOCD for approval a method to determine the size and configuration of the mined cavity. This is a discharge plan renewal requirement.

11. Please submit the mechanical integrity pressure test results of the all below-grade brine transfer and drain lines. This is a discharge plan renewal requirement.

Please provide the above requested information by November 15, 1999. Please send two copies to the NMOCD Santa Fe office and one copy to the District office. If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec.
Environmental Bureau

cc: OCD Hobbs office

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 7-13-99,

or cash received on _____ in the amount of $ 50.00

from QUALITY OIL SERVICE, INC.

for SALADO BRINE SALES NO. 2 BW-025
(Facility Name) (DP No.)

Submitted by: WAYNE PRICE Date: 7/14/99

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility ___ Renewal ___

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 99

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

[redacted]

QUALITY OIL SERVICE, INC.
OPERATING ACCOUNT
P.O. BOX 1060
JAL, NM 88252

35-1125/1130

DATE 7-13-99

PAY TO THE ORDER OF NMED-Water Quality Management $ 50.00

Fifty Dollars and NO/100 DOLLARS

Security features included. Details on back.

BW-025

THIS CHECK IS DELIVERED FOR PAYMENT ON THE ACCOUNTS LISTED

[redacted]

SOUTHWEST BANK OF TEXAS, N.A.
P.O. BOX 27459
HOUSTON, TEXAS 77227-7459

© DELUXE - TY

Quality Oil Service, Inc.
of New Mexico

JUL 14 1999

July 13, 1999

New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Attn: Wayne Price

Re: Discharge Plan BW-025 Renewal
Salado Brine Sales No. 2 Brine Station
NE/4 NE/4 Section 20-T25S-R37E
Lea County, New Mexico

Dear Mr. Price:

As you are aware W. H. Brininstool sold Salado Brine Sales to Quality Oil Service, Inc. the end of March of last year. Please except this letter as renewal for Discharge Plan BW-025 for QOS as owner of Salado Brine Sales.

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

Quality Oil Service, Inc. not only purchased the brine station, they also purchased the 91 acres of land. The original discharge application included a survey drawing of brine station, road, and the 91 acres.

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

See previous submitted application and renewal.

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

See previous submitted application and renewal.

VII. Attach a description of underground facilities.

See previous submitted application and renewal.

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

See previous submitted application and renewal.

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

See previous submitted application.

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

Keeling Fuel installed diesel fuel and flammable storage tanks on the South side of brine station pad. Keeling constructed a containment area to hold the above mentioned storage tanks. Keeling plastic lined and bermed the containment area. A storage building is located next to this area that has Keeling's computer equipment for fueling of diesel.

If you need anything else, please call me at 505-395-2010.

Cordially,

Christine Brininstool
General Manager

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: Salado Brine Sales

II. OPERATOR: Quality Oil Service, Inc.

ADDRESS: P. O. Box 1060, Jal, NM 88252

CONTACT PERSON: Chris Brininstool PHONE: 505-395-2010

III. LOCATION: NE /4 NE /4 Section 20 Township 25S Range 37E

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: Christine Brininstool Title: General Manager

Signature: Christine Brininstool Date: 7-13-99

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

June 15, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 357 870 117

Christine Brininstool
Quality Oil Service, Inc.
P.O. Drawer A
Jal, New Mexico 88252

Re: Discharge Plan BW-025 Renewal
Salado Brine Sales No. 2 Brine Station
NE/4 NE/4 Section 20-Ts25s-R37e
Lea County, New Mexico

Dear Ms. Brininstool:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Quality Oil Services, Inc.'s (QOS) letter dated April 29, 1998 requesting renewal of discharge plan BW-025 and commitments on submitting updated drawings of changes made after September 1, 1993. NMOCD issued A Public Notice on May 18, 1998 for the renewal. On September 1, 1998 the discharge plan expired. Note that under Section 3106.F. of the New Mexico Water Quality (WQCC) Regulations, if a discharger submits a discharge plan renewal application at least 120 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.

Please note NMOCD has not received an application as of to date but will honor the request letter if QOS submits a discharge plan application (copy enclosed) with all supporting documentation and the $50.00 filing fee **by July 15, 1999.** Please make all checks payable to NMED-Water Quality Management and addressed to the OCD Santa Fe Office.

If you require any further information or assistance please do not hesitate to write or call me at (505-827-7155).

Sincerely Yours,

Wayne Price-Pet. Engr. Spec.
Environmental Bureau

cc: OCD Hobbs District office

attachments- 1 application form & Guidelines

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 ..... 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, for one (1) day same day of the week consecutive weeks, beginning with the issue of

May 22, 1998

and ending with the issue of

May 22, 1998

And that the cost of publishing said notice is the sum of $ 50.40

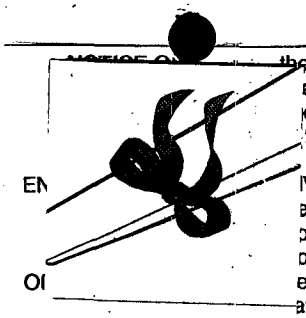
which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 26th day of May, 1998

Notary Public, Lea County, New Mexico

My Commission Expires September 28 1998



...the information in the discharge plan application(s) ...d information submitted ...the hearing.

EN...IVEN under the Seal of ...ew Mexico Oil ...onservation ...ommission at Santa Fe, ...ew Mexico, on this 18th ...ay of May 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY, Director

SEAL

...ublished in the ...ovington Daily Leader ...May 22, 1998.

OK MM 6-11-98

The Santa Fe New Mexican

Since 1849. We Read You.

AD NUMBER: 26546 ACCOUNT: 56689
LEGAL NO: 63546 P.O.#: 98199000257
175 LINES 1 time(s) at $ 70.00
AFFIDAVITS: 5.25
TAX: 4.70
TOTAL: 79.95

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE
I, B. Penner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTE FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #63546 a copy of which is hereto attached was published in said newspaper 1 day(s) between 05/22/1998 and 05/22/1998 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 22 day of May, 1998 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betty Penner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 21 day of May A.D., 1998

Notary B. Mathis

Commission Expires 3-13-2001

OK-MM 6-4-98

OFFICIAL SEAL
B. MATHIS
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 3-13-2001

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(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(BW-025) - Quality Oil Services, Inc., William Brininstool, (505) 395-2010, P.O. Drawer A, Jal, New Mexico, 88252, has submitted a discharge application for its previously approved discharge plan for the No.2 Brine Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water will stored in four 1,000 barrel above ground closed top tanks. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 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(s) 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 application(s), 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 and a 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(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 18th day of May 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY,
Director

Legal #63546
Pub. May 22, 1998

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

May 19, 1998

The New Mexican
Attention: *Betsy Perner*
202 East Marcy
Santa Fe, New Mexico 87501

Re: Notice of Publication
PO # 98-199-00257

Dear Ms. Perner:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit.***
2. ***Invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than Friday, May 22, 1998.

Sincerely,

Sally Martinez

Sally Martinez
Administrative Secretary

Attachment

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

May 19, 1998

Lovington Daily Leader
Attention: Advertising Manager
Post Office Box 1717
Lovington, New Mexico 88260

Re: Notice of Publication

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit in duplicate.***
2. ***Statement of cost (also in duplicate).***
3. ***Certified invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than May 26, 1998.

Sincerely,

Sally Martinez
Sally Martinez
Administrative Secretary

Attachment

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
Lovington Daily Leader
Street & Number
P.O. Box 1717
Post Office, State, & ZIP Code
Lovington, NM 88260

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	Mark

P 269 262 731

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(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(BW-025) Quality Oil Services, Inc., William Brininstool, (505) 395-2010, P.O. Drawer A, Jal, New Mexico, 88252, has submitted a discharge application for its previously approved discharge plan for the No.2 Brine Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water will stored in four 1,000 barrel above ground closed top tanks. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 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(s) 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 application(s), 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 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.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 18th day of May 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Will C. Olson for

SEAL

LORI WROTENBERY, Director

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 18th day of May 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Will C. Olson for

S E A L

LORI WROTENBERY, Director

Quality Oil Service, Inc.
of New Mexico

May 27, 1999

COPY

Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Attn: Roger Anderson and Wayne Price

Dear Roger and Wayne:

Thanks for your help yesterday.

I am sending you bond B4078 for the active brine station in Jal. This brine station is under discharge plane BW-25, well #2. Bond B4078 has been changed from William H. Brininstool dba Salado Brine Sales to Quality Oil Service, Inc.

The only other active bond you should have is B4382, William H. Brininstool for well #3, discharge plane BW-26. The location for this well is at Bill's ranch. I do not know if Bill will drill well or if he will cancel permit.

Don't forget to send letter releasing the other bond you have for the first brine well that Bill owned. (Well was 4 miles East of Jal and had the plastic lined pit.)

Cordially,

Christine Brininstool

Christine Brininstool
General Manager

PHONE 505-395-2010 • FAX 505-395-2914 • P.O. BOX 1060 • JAL, NEW MEXICO 88252

UNDERWRITERS
INDEMNITY

HOUSTON • DENVER
8 GREENWAY PLAZA, SUITE 400
HOUSTON, TEXAS 77046
(713) 961-1300
TELECOPIER: (713) 961-0285

COPY

BOND RIDER NO. 3

Attaching to and forming part of Bond for One-Well Plugging Bond, Bond No. B4078, effective May 14, 1993 on behalf of W. H. Brininstool dba Salado Brine Sales as Principal, of P. O. Drawer A, Jal, NM 88252 in favor of State of New Mexico as Obligee, in the amount of Five Thousand and No/100 Dollars ($5,000.00).

It is understood and agreed that effective May 15, 1998 the principal has been changed to read:

Quality Oil Service, Inc.

All other conditions and terms to remain as originally written.

Signed, sealed and dated this 30th day of June, 1998.

Quality Oil Service, Inc.
Principal

By: Michael [signature]

Underwriters Indemnity Company
Surety

By: [signature]
Roy C. Die, Attorney-in-Fact
8 Greenway Plaza, Suite 400
Houston, Texas 77046

P. O. DRAWER A
JAL, NM 88252
505-395-2010

QUALITY OIL SERVICE, INC.

Mark,

Please do not let me forget to send Rest of information

This change has been a pain! 13+14 hours a day for a month and I'm still not close to having everything Changed to QOS.

Thanks
Chris

Oil Service, Inc.
harge plan.

. I would also like to

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

March 11, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-259-044

Mr. William H. Brininstool
Salado Brine Sales
P.O. Drawer A
Jal, New Mexico 88252

RE: Discharge Plan BW-025 Renewal Notice
Salado Brine Sales No. 2 Brine Station
Lea County, New Mexico

Dear Mr. Brininstool:

On September 1, 1993, the groundwater discharge plan, BW-025, for the Salado Brine Sales (Salado) No. 2 Brine Station located in the NE/4, NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved pursuant to Section 3109 for a period of five years. The approval will expire on September 1, 1998.

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Salado 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 **No. 2 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.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☐ Telephone ☒ Personal	Time 9:30AM	Date 4-13-98
Originating Party		Other Parties
MARK ASHLEY		ROGER ANDERSON

Subject 2-20-98 LETTER FROM DISTRICT I REGARDING SKADO BRINE + JUAN CONSTRUCTION CO.

Discussion ROGER NOTIFIED SKADO ~~BRINE~~ LAST WEEK (4-6-98) ABOUT MODIFYING OP FOR BRINE WELL.

THE ONLY EVIDENCE FOR JUAN CONST. CO. IS PICTURE OF "STAGING AREA." NO FURTHER ACTION SINCE ONLY HEARSAY EVIDENCE

Conclusions or Agreements

Distribution

Signed Mark Ashley

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

March 11, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-259-044

Mr. William H. Brininstool
Salado Brine Sales
P.O. Drawer A
Jal, New Mexico 88252

RE: Discharge Plan BW-025 Renewal Notice
Salado Brine Sales No. 2 Brine Station
Lea County, New Mexico

Dear Mr. Brininstool:

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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 the discharge plan renewal request.** Copies of the WQCC regulations, discharge plan application form and guidelines have been provided in the past. A complete copy of the regulations is also available on the OCD's website at **www.emnrd.state.nm.us/ocd/.**

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

Sincerely,

Mark Ashley for RCA

Roger C. Anderson
Environmental Bureau Chief

RCA/mwa

xc: OCD Hobbs Office

P 288 259 044

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	

PS Form 3800, April 1995

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5950

Jennifer A. Salisbury
CABINET SECRETARY

February 20, 1998

To: Roger Anderson

From: Wayne Price

Re: XL Sump Analysis & XL Brine St. (BW-25) inspection.

Dear Roger:

Please find enclosed the analyticals from the sampling event taken on Jan 30, 1998. Also attached is a sketch showing the different locations. Please note the analyticals with the ID 9801281000 were taken from sample containers that were collected by the City of Jal the morning after the incident. The incident occurred the night of Jan 27, 1998. These samples reflect Toluene at high concentrations down stream of the XL sump. The Up-stream manhole (Montana) was "ND" for Toluene.

For clarification the Montana manhole is up-stream of the XL facility. The Wyoming & Panther is down stream.

After reviewing the data, it appears at this time the source of Toluene was the XL sump.

I recommend that we follow through with XL performing an internal investigation so as we can understand how Toluene waste is generated in the sump. This will help classify if this waste water and or the sludge in the bottom of the sump is exempt/non-exempt and thus a possible "Listed Hazardous Waste". Also we need to know how often and where this waste is being disposed of. This can be part of the Discharge Plan. I also recommend that we have XL supply us the analytical data they collected during our sampling event.

Please note XL normally washes out trucks at their Brine Facility wash out pit (BW-25). I recommend we have XL describe how and what type of waste is discharged into this pit. Please note this sludge according to Chris Brininstool, has been going to Sundance (Parabo) facility.

Please note the NMOCD District I office received a complaint about contaminated soil being disposed of from the Brine St. onto a lot located inside city of Jal, NM. My investigation revealed that J.L.N.M. Construction Co. (P.O. Box 566 Jal, NM 88252) hauled the sludge from the brine pit and dumped it at their facility in Jal, NM. According to the owner Mr. Jimmy Hill he did this as a temporary storing area, then he hauled to Sundance Parabo. He supplied me Parabo tickets. Pictures were taken of the staging area.

I inspected the Brine St. (BW-25) with Chris Brininstool and took pictures. They have installed an additional concrete pad with curb next to the wash-out pit to hold the wet sludge until it is dry enough to haul off. I understand there might be some mixing of sludge and soil to help solidify it. The pad & curd is designed to drain back to the pit. They have also installed a new underground drain line and above ground waste tank downhill from the pit. This new tank is on a 30 mil liner and bermed. Also they have added a KCL mixing station.

I ask Chris Brininstool if they have modified their discharge plan, she said no.

I recommend that XL\Salado Brine ST (BW-25) be required to modify their discharge plan to reflect the new changes, plus they should list all types of waste, chemicals, etc that are discharged into the wash-out pit. They should determine if this waste is exempt or non-exempt. Is Toluene being discharged into this pit?

I also recommend that J.L.N.M be notified if they discharged any more contaminated soils at their site they will be required to obtain a Discharge Plan.

cc: Chris Williams-District I Supervisor
Jack Ford & Mark Ashley- NMOCD SF

attachments- for XL Transportation. cc of analyticals & sketch.
- for Brine ST BW025 cc of pictures.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

March 7, 1994

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-182

Ms. Chris Brininstool
Salado Brine Sales
P.O. Drawer A
Jal, New Mexico 88252

RE: APPROVAL TO CONSTRUCT WASHOUT PIT
SALADO BRINE FACILITY NO. 2 (BW-25)
LEA COUNTY, NEW MEXICO

Dear Ms. Brininstool:

The New Mexico Oil Conservation Division (OCD) has received your February 11, 1994, request to construct a concrete washout facility at your Salado Brine Facility No. 2 located in Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. The request is to construct a washout pit which will collect water spilled at the loading rack and precipitation. The proposed washout pit will be double lined with leak detection as detailed in the February 11, 1994 drawing.

Based on the information supplied in the request, the OCD hereby approves the construction of the washout pit under the following conditions:

1. Leak Detection Schedule: The leak detection system will be checked at a minimum of weekly. The date of inspection, results, and inspectors initials will be recorded, kept at the facility and available for OCD inspection.

2. Freeboard: A minimum freeboard based upon an average size rainfall and spill will be maintained in the washout pit so that overflow does not occur. If overtopping is observed at the pit the freeboard will be increased to prevent reoccurrence of overflow.

3. Leak Notification: Any leaks or overflows will be reported to the OCD Hobbs Office within 24 hours of discovery.

4. Underground Lines: The underground lines will be tested for integrity prior to the discharge plan renewal (September 1, 1998).

5. Waste Classification: The washout pit will only receive oilfield fluids which are exempt from federal RCRA Subtitle C (hazardous waste) regulations. **Please note:** if the washout pit inadvertently receives any non-exempt fluids then the entire contents of the pit must be tested for hazardous constituents prior to disposal.

Please be advised OCD approval of this operation does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment actionable under other laws and/or regulations. In addition, the OCD approval does not relieve you of liability for compliance with any other laws and/or regulations.

If you have any questions, please contact me at (505) 827-5884.

Sincerely,

Kathy M. Brown

Kathy M. Brown
Geologist

xc: Wayne Price, OCD Hobbs Office

NMOCD Inter-Correspondence

To: Kathy Brown-Geologist

From: Wayne Price-Environmental Engineer District I

Date: March 4, 1994

Reference: Salado Brine ST. BW-24

Subject: New Proposed Washout Pit

Comments: Per your telephone conversation the other day concerning the washout pit, I think one of us should call Bill Brininstool before he actually starts construction: Please let me know if you want me to call him. Thanks!

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

BRUCE KING
GOVERNOR

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

To: Kathy Brown- Geologist

From: Wayne Price - Environmental Engineer District I

Date: February 18, 1993

Subject: Discharge plan BW-25
Salado Brine Well #2 proposed washout facility

Dear Kathy,

Please find enclosed a proposal submitted by Chris Brininstool of Salado Brine Sales for the Installation of a combination drain/washout collection system to collect any spilled material at the brine station and to facilitate washing out trucks and tanks used in Mr. Brininstools' trucking business.

The Issue of whether this material collected will be "exempted material" as defined under RCRA was not investigated at this time.

The wash out pit will be constructed similar to the drawing attached; however I understand Salado will be constructing this pit in-house, so therefore the actual design might vary. Unichem International and Rowland Trucking Co. supplied Mr. Brininstool a copy of this drawing for reference.

I have visited the site and have the following suggestions to aid you in the discharge plan modification review:

1. The proposed underground lines appeared to be carbon steel which might lead to an early failure due to corrosion. We might suggest that they have the capability to static pressure test these periodically or place a plastic liner under them.

2. I recommend that PE plastic be laid under the proposed drive ways which would include the drain lines and sumps. This would give them an inexpensive way of providing a secondary liner. I suggest two layers of 6 mill.

3. Up-grade the leak detector well installation to include an outer casing to prevent surface contamination from migrating into the well. Also recommend a lock and key on the outer casing and a pipe cap for the inter-pipe. Even though it is the responsibility of the operator, I think some reference to cross contamination should be presented; along with sampling techniques and with monitoring and reporting requirements.

4. Recommend that some freeboard be maintained in washout pit, probably should be calculated on the amount of rainwater that could be collected on the pads during a typical rain fall.

5. Since we presently do not have specific guidelines or specifications for concrete washout pits; I recommend a disclaimer statement of some sort to relieve the State of NM of any applied liability.

6. Since this plan modification is relative close in time to the existing permit issuance; I assume there will be no further charges involved.

7. On the original plan I noticed that the load line was connected to the fresh water line, might suggest to ask the question if there is a check valve in the system to prevent back flow. It might be that the fresh water line may not be required to be protected.

Attachments-1 Washout pit letter and plans

cc: Jerry Sexton- District I Supervisor

SALADO BRINE SALES

P. O. Drawer A
Jal, New Mexico 88252
505-395-2010

February 11, 1994

Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Attention: Wayne Price

Re: Discharge Plan BW-25
Salado Brine Well #2 proposed washout facility

Dear Mr. Price:

William H. Brininstool dba Salado Brine Sales, P. O. Drawer A, Jal, New Mexico 88252, is proposing to build a washout facility. Enclosed is a drawing of a concrete washout facility that Salado Brine Sales is proposing to build contingent to your approval.

Thank you for traveling to Jal to inspect the location for proposed facility and advice for facility construction.

Enclosed are pictures of Salado Brine Well #2. Picture #1 shows brine wellhead, two fresh water storage tanks and storage building for pump. Picture #2 shows the 4-1000 bbl storage tanks for brine water. Tanks have been coated on the inside. Picture #3 shows the two loading racks with a concrete overflow that will drain into the proposed washout facility. Picture #4 shows the proposed site of the concrete washout facility. When facility is completed a final set of pictures will be submitted.

Enclosed is a drawing of underground pipe detailing the process of brine that might spill while loading a truck. Please see attached drawing with explanation.

If you have any questions please call Chris at 505-395-2010

Cordially,

Chris Brininstool

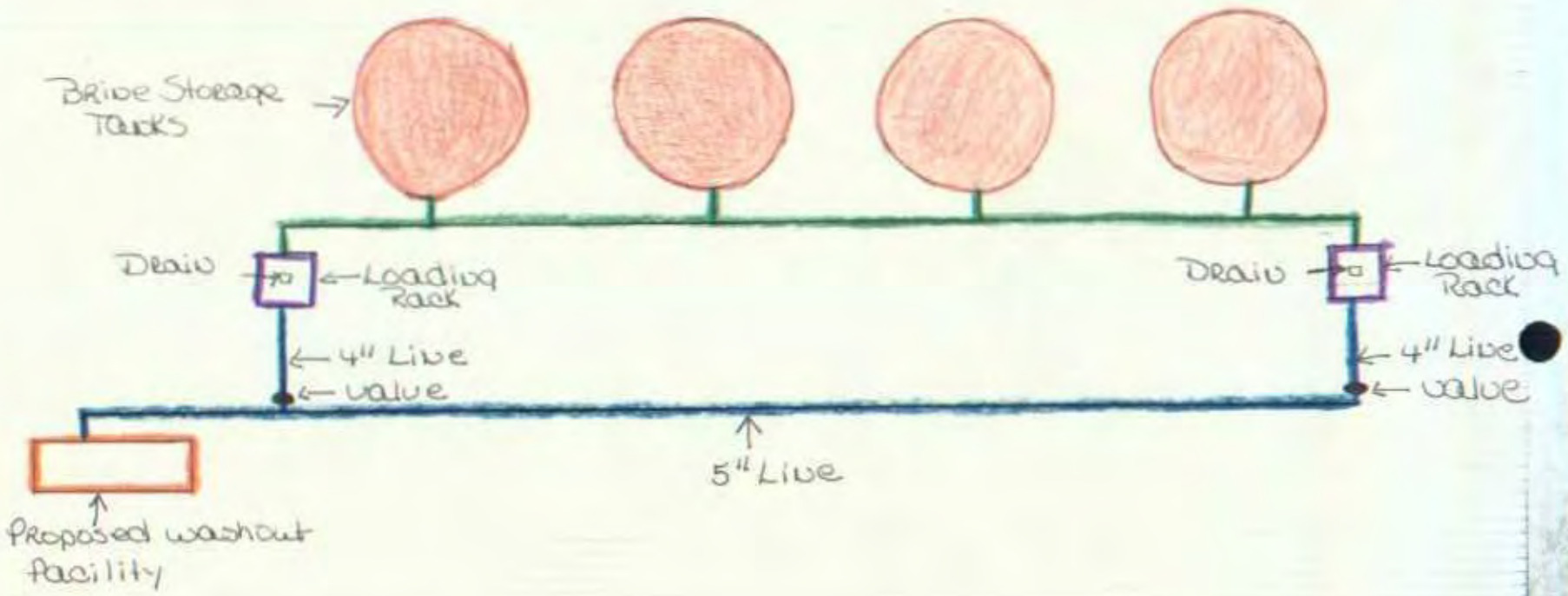
1. 4-1000 bbl brine storage tanks
   Steel tanks have been flake-line coated on the inside.

2. Above ground loading line
   The 4 storage tanks are connected to this line and at each end of line is a loading rack.

3. Below ground drain lines
   The 4" lines are buried 1' below ground and slopes toward the 5" line.
   The 5" line is buried 1 1/2 ' below ground and slopes toward the washout facility
   The 4" lines have a valve where the lines can be closed to the 5" line in case 5" line ever becomes plug and pressure has to be applied to clean line.

4. Loading rack drain
   The loading racks are 14' x 14' concrete pads with pads sloping toward the center. A drain in the center is connected to the 4" drain lines. The concrete pads are 8" thick with rebar. Concrete used was 6 sacks cement per square yard with fibermesh.

5. Proposed washout facility
   Please see enclosed 24 x 36 drawing.


Brine Storage Tanks
Drain
Loading Rack
Drain
Loading Rack
4" Line
Valve
4" Line
Valve
5" Line
Proposed washout facility

Submit 3 Copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION
RECEIVED
93 OCT 25 AM 10 32

WELL API NO. 30-025-32394

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: Salado Brine Well #2

1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER Brine Well

2. Name of Operator: William H. Brininstool dba Salado Brine Sales

8. Well No. 2

3. Address of Operator: P. O. Drawer A, Jal, NM 88252

9. Pool name or Wildcat: Salado

4. Well Location
Unit Letter A : 1305 Feet From The North Line and 60 Feet From The East Line

Section 20 Township 25S Range 37E NMPM Lea County

10. Elevation (*Show whether DF, RKB, RT, GR, etc.*) 3073

11. 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	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	PLUG AND ABANDONMENT	☐
PULL OR ALTER CASING	☐			CASING TEST AND CEMENT JOB	☐		
OTHER:	☐			OTHER: Completion of drilling brine well	X		

12. 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.

Commenced drilling August 27, 1993. Drilled a 14 3/4" hole to 60' and set 60' of 10" surface pipe. Thirty sacks of class C cement was used to cement the surface pipe and cement was circulated to surface. 8-30-93 drilled 9 7/8" hole to top of salt and ran 1220' 7" casing. 9-3-93 Halliburton used 475 sacks class C cement and circulated to surface. Representative of the Oil Conservation Division was present to witness Halliburton cement operation. 9-6-93 Drilled 6 1/8" hole to a total depth of 1420'. Ran 1,385' fo 2 7/8" tubing.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

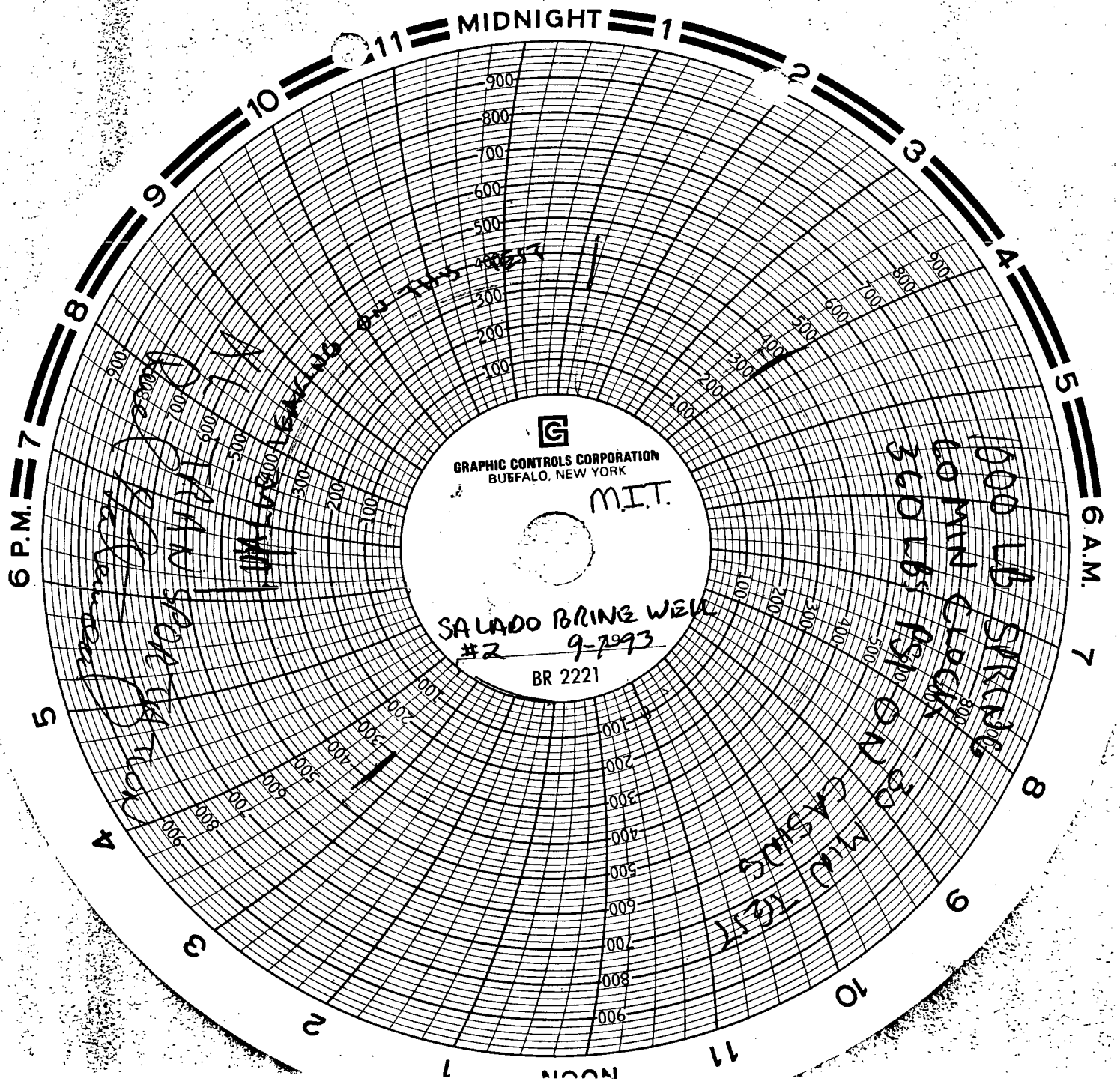
SIGNATURE William H Brininstool TITLE owner DATE 9-27-93

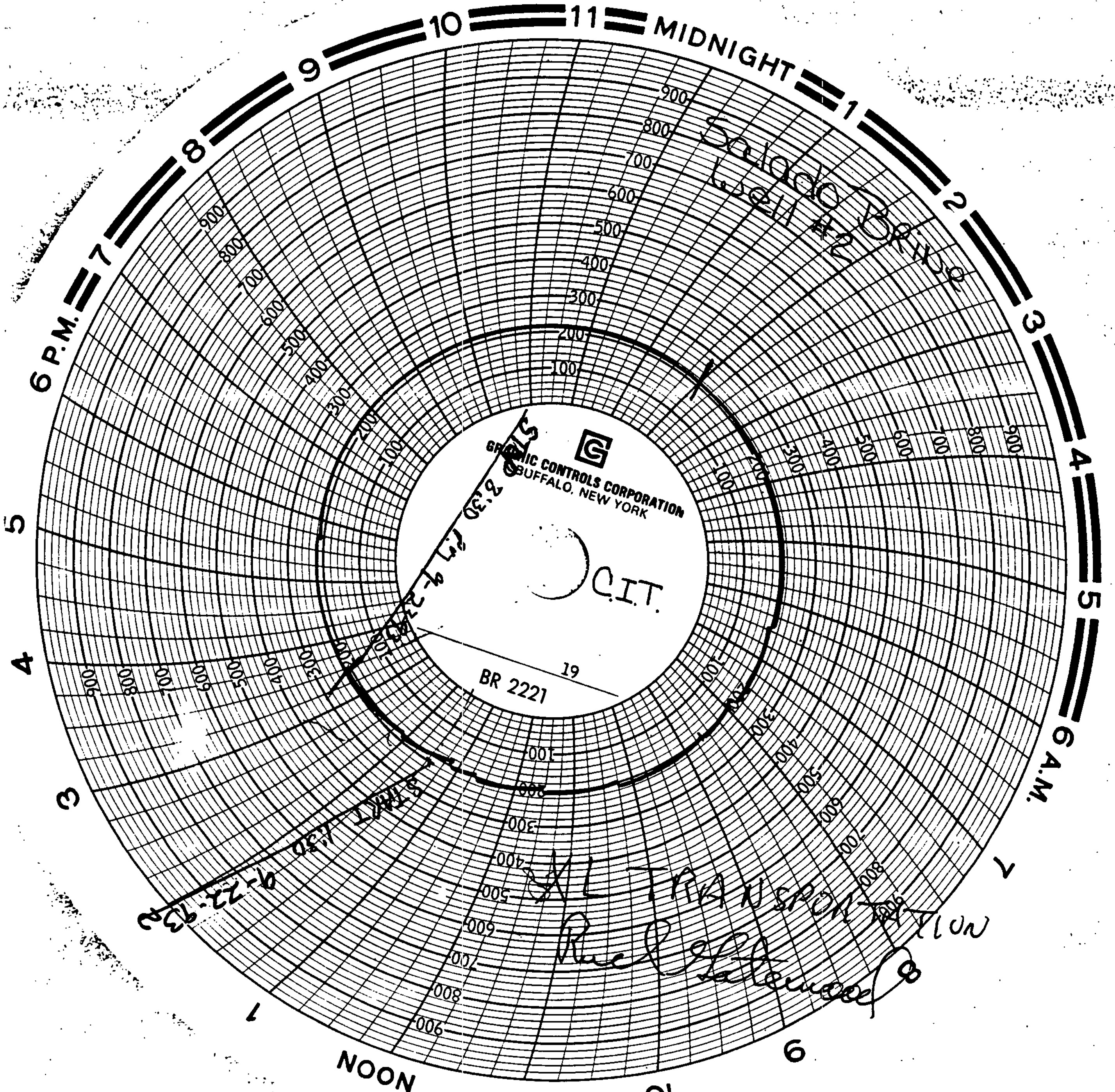
TYPE OR PRINT NAME William H. Brininstool TELEPHONE NO. 505-395-2010

(This space for State Use)

APPROVED BY FOR RECORD ONLY TITLE DATE JAN 21 1994

CONDITIONS OF APPROVAL, IF ANY:


MIDNIGHT
NOON
6 P.M.
6 A.M.
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
M.I.T.
SALADO BRINE WELL
#2 9-1993
BR 2221


MIDNIGHT
6 P.M.
6 A.M.
NOON
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
BR 2221
19
Salado Brine
Well #2
C.I.T.
AL TRANSPORTATION
START 1:30 9-22-93

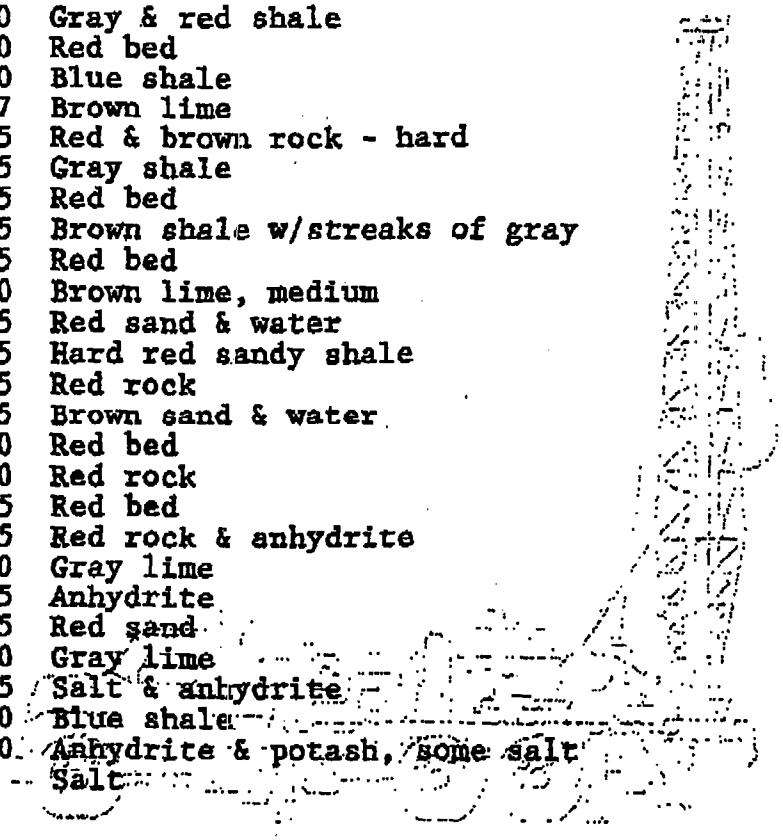
WEST TEXAS WATER WELL SERVICE

3432 W. University Blvd.
Odessa, Texas 79764

(915) 381-2687 Fax (915) 381-7853

XL Transportation
P.O. Drawer A
Jal, NM 88252

0	-	1	Topsoil
1	-	12	Broken caliche
12	-	15	Granite
15	-	40	Red sand
40	-	60	Gray & red shale
60	-	120	Red bed
120	-	130	Blue shale
130	-	137	Brown lime
137	-	145	Red & brown rock - hard
145	-	165	Gray shale
165	-	175	Red bed
175	-	205	Brown shale w/streaks of gray
205	-	325	Red bed
325	-	340	Brown lime, medium
340	-	355	Red sand & water
355	-	485	Hard red sandy shale
485	-	495	Red rock
495	-	525	Brown sand & water
525	-	580	Red bed
580	-	600	Red rock
600	-	675	Red bed
675	-	1025	Red rock & anhydrite
1025	-	1080	Gray lime
1080	-	1095	Anhydrite
1095	-	1125	Red sand
1125	-	1140	Gray lime
1140	-	1185	Salt & anhydrite
1185	-	1230	Blue shale
1230	-	1240	Anhydrite & potash, some salt
1240	-	140 --	Salt



P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 915-943-3234 OR 563-1040

Martin Water Laboratories, Inc.

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

RESULT OF WATER ANALYSES

TO: W. H. Brininstool
P. O. Drawer "A", Jal, NM 88252

LABORATORY NO. 993147
SAMPLE RECEIVED 9-27-93
RESULTS REPORTED 9-28-93

COMPANY XL Transportation LEASE Salado #2
FIELD OR POOL
SECTION BLOCK SURVEY COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Brine water - taken from Salado #2.
NO. 2
NO. 3
NO. 4
REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.2036			
pH When Sampled				
pH When Received	7.32			
Bicarbonate as HCO_3	224			
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	5,800			
Calcium as Ca	1,240			
Magnesium as Mg	656			
Sodium and/or Potassium	118,816			
Sulfate as SO_4	3,420			
Chloride as Cl	184,649			
Iron as Fe	1.6			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	309,006			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohmsm at 77° F.	0.045			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Weight, lbs/gal.	10.0			

Results Reported As Milligrams Per Liter

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

Form No. 3

By Waylan C. Martin, M.A.

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

'94 JAN 24 AM 10 33

API NO. (assigned by OCD on New Wells)
30-025-32394

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:
DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:
OIL WELL ☐ GAS WELL ☒ OTHER Brine well SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. Lease Name or Unit Agreement Name
Salado Brine Well #2

2. Name of Operator
William H. Brininstool dba Salado Brine Sales

8. Well No.
2

3. Address of Operator
P. O. Drawer A, Jal, NM 88252

9. Pool name or Wildcat

4. Well Location
Unit Letter A : 1305 Feet From The North Line and 60 Feet From The East Line

Section 20 Township T25S Range 37E NMPM Lea County

10. Proposed Depth	11. Formation	12. Rotary or C.T.
1,700'	Halite	Rotary

13. Elevations (Show whether DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx. Date Work will start
3073		West Texas Water Well	June 1993

17.
PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14 3/4"	12 3/4"	28#	60'	50	Surface
9 7/8"	7"	23#	1200'	500	Surface
6 1/2"	2 7/8 Tubing	10.40#	1700'		

Proposed well will be drilled to approximately 1700'. A 14 3/4" hole will be drilled to a depth of 60' and 12 3/4" casing will be run and cemented to the surface. Propose to use 50 sacks Class C cement. A 9 7/8" hole will be drilled to the top of the Halite formation approximately 1100' to 1200' and 7" casing will be run and cemented to the surface. Propose to use 500 sacks class C cement. A 6 1/2" hole will then be drilled to approximately 1700'. Well will have approximately 1700' of 2 7/8" tubing. Cement work will be performed by Halliburton Services. At this time a casing integrity test will be performed and logs will be run that is required by the Oil Conservation Commission.

Approval for API # Only Federal Minerals or J S

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.

SIGNATURE William H Brininstool TITLE Owner DATE 5-10-93

TYPE OR PRINT NAME William H. Brininstool TELEPHONE NO. 505-395-2010

(This space for State Use)
FOR RECORD ONLY
JAN 20 199

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
RECEIVED
'94 JAN 4 AM 10 30

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
William H. Brininstool DBA Salado Brine Sales	BRINE	2

Unit Letter	Section	Township	Range	County
A	20	25 SOUTH	37 EAST NMPM	LEA

Actual Footage Location of Well:
1305 feet from the NORTH line and 60 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3073.5'			Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

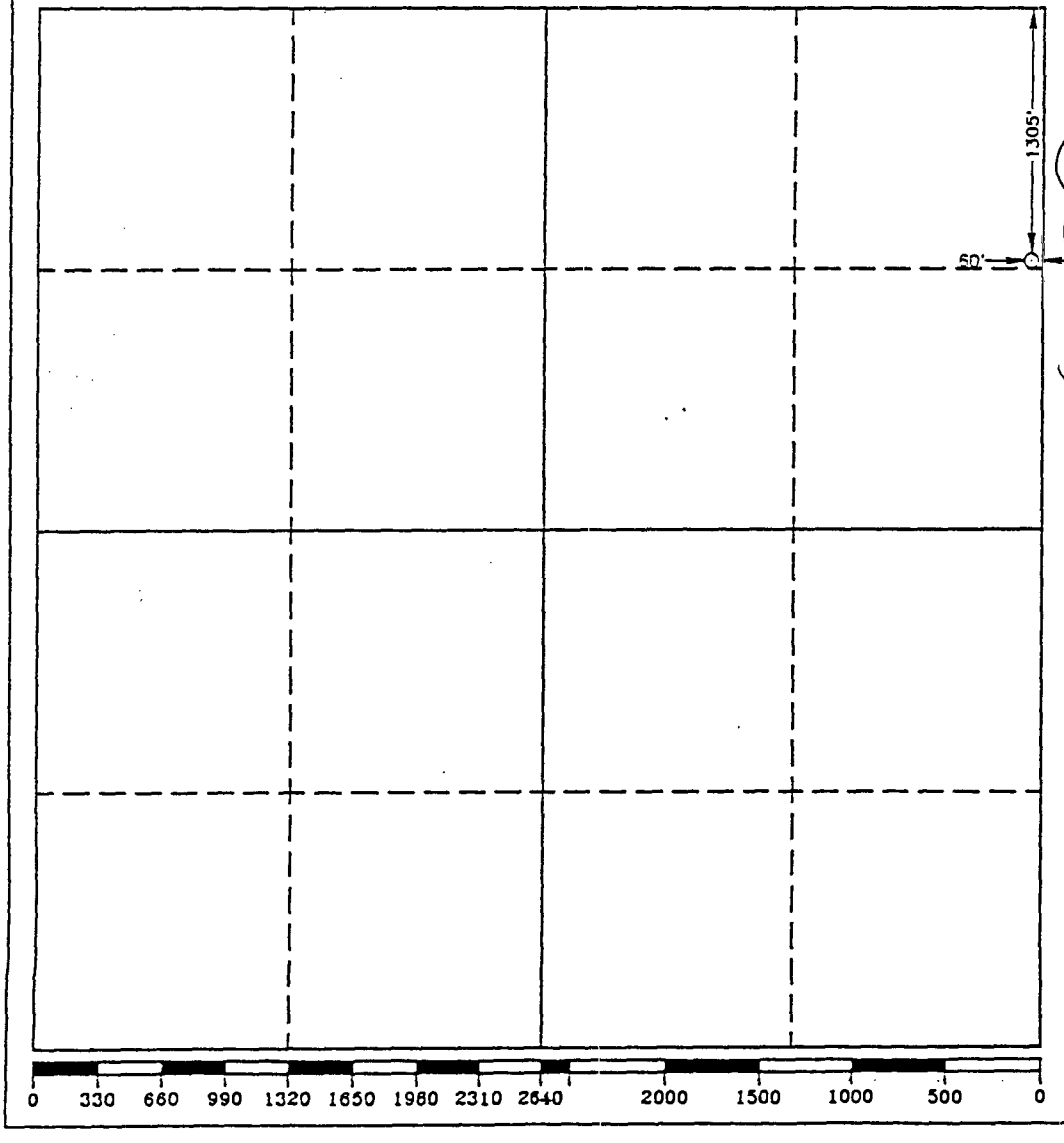
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature: Christine Brininstool
Printed Name: Christine Brininstool
Position: Office Manager
Company: Salado Brine Sales
Date: 5-19-93

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
MAY 04, 1993

Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. JOHN W. WEST 676
RONALD J. EIDSON 3239
GARY L. JONES 7977

Form 3510-1
(May 1984)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONSERV... NM NM 89909
RECEIVED
'94 JAN 24 AM 10 04

FORM APPROVED
OMB NO. 1004-0030
Expires: May 31, 1990

PROSPECTING APPLICATION AND PERMIT

1. What mineral are you applying for?
Sodium

2. Give legal description of land requested *(See General Instruction for assistance on land description if needed)*

Township 25S Range 37E Section 20
NE¼ of NE¼
Lea County, New Mexico

RECEIVED
MAR 31 3 31 PM '93
CARL... AREA ... OFFICE

3. Legal description of land included in permit
APPLICANT DOES NOT FILL IN THIS SPACE

T. 25 S., R. 37 E., N.M.P.M.
sec. 20: NE¼NE¼.

Lea County, New Mexico

Total acres 40	Rental submitted $ 20.00	Total acres 40.00	Rental retained $ 20.00

4. Are the lands administered by a government agency? [X] Yes [ ] No *(If "yes," give name of agency)*
Bureau of Land Management, Department of the Interior

5. Are you the sole party in interest? [X] Yes [ ] No *(See Specific Instruction No. 5)*

6a. Are you a citizen of the United States? [X] Yes [ ] No

b. Are you over the age of majority? [X] Yes [ ] No

7a. Is application made for a corporation or other legal entity? [ ] Yes [X] No *(See Specific Instructions No. 7a and 7b)*

b. Has a statement of qualification been filed? [ ] Yes [X] No *(If "yes," give file number)*

8. Have you enclosed a filing fee of $ [X] Yes $25.00

9. Have you enclosed the first year's advance rental computed at the rate of .50 ¢ per acre? [X] Yes *(See Specific Instruction No. 9)* $20.00

I CERTIFY That my interests, direct or indirect, in leases, permits, and applications therefor, do not exceed the maximum permitted by law or regulation; and that the statements made herein are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

W. T. Brimhall
(Signature of Applicant)

(Signature of Applicant)

3-31-93
(Date)

(Attorney-in-fact)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DO NOT WRITE BELOW THIS LINE

Sodium PROSPECTING PERMIT

A permit for the lands in Item 3, above is hereby issued under the [X] Mineral Leasing Act, 30 U.S.C. 181 *et seq.* [ ] Acquired Lands Leasing Act, 30 U.S.C. 351 *et seq.* [ ] 43 CFR 3511 *et seq.* and is subject to all regulations in force and to the terms and conditions set forth on the reverse side hereof.

This permit, to the extent applicable, is subject to standard or special stipulations. Stipulations if any, are attached. (5 pages)

Effective date of permit August 1, 1993

This permit is issued for a period of 2 years

THE UNITED STATES OF AMERICA

By Richard E. Manus
(Signing Officer)

Area Manager, Carlsbad Resource Area
(Title)

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 9/8/93,
or cash received on 9-17-93 in the amount of $ 1430.00
from SALADO BRINE SALES
for SALADO BRINE STATION (Facility Name) BW-25 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: [signature] Date: 9-20-93
Received in ASD by: [signature] Date: 9-20-93
Filing Fee ✓ New Facility ___ Renewal ✓
Modification ___ Other _____ (specify)
Organization Code 521.07 Applicable FY 94

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

SALADO BRINE SALES
DRAWER A
JAL, NM 88252

[redacted]

88-2207/1123

Sept. 8 19 93

Pay to the order of NMED-Water Quality Management $ 1,430.00

CERTIFIED TILL 11-30-94 ONE THOUSAND FOUR HUNDRED THIRTY AND 00 CTS Dollars

Kermit State Bank
Drawer K • Kermit, Texas 79745

For BW-25

Christine Brimstead

[redacted]

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal

Time: 9:10 A.m.

Date: Aug. 30, 1993

Originating Party	Other Parties
K.M. Brown	Chris Brunnstool

Subject: Salado Brine Well - Proposed Well

Discussion: Just started drilling. BLM has mineral rights. Brunnstools have surface rights. Told Chris about possibly having to notify offset lease owners. She said they had already been in contact with Betty, Boyd & Stovall and they had no problem. Also, the well ~~was~~ notification was put in the paper previously and no complaints. Told her we would probably need to have a commitment to run a sonar log or something to determine the cavity size after the well had been in operation for a period of time.

Conclusions or Agreements:

Will need to have conditions in the discharge plan for determining cavity size

Distribution

Signed K Brown

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

June 23, 1993

Permit #GW93017

William J. LeMay, Director
New Mexico Energy, Minerals, and
Natural Resources Department
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. LeMay:

This responds to the notice of publication received by the U.S. Fish and Wildlife Service (Service) on May 27, 1993, regarding effects of Oil Conservation Division discharge plan applications on fish, shellfish, and wildlife resources in New Mexico.

The Service has the following comments on the issuance of the discharge plan applications for:

> Salado Brine Sales for the insitu extraction brine well facility located in NE/4 NE/4, Section 20, T25S, R37E, NMPM, Lea County. The facility proposes to store brine water extracted from the Salado Formation in four 1000-barrel above ground tanks.
>
> GPM Gas Corporation located in NE/4 NE/4, Section 19, T19S, R32E, NMPM, Lea County, proposes to store approximately 4050 gallons per day of process waste water in above ground steel tanks prior to disposal at an OCD approved offsite commercial disposal facility.

The above ground storage tanks identified in the discharge plans should be entirely enclosed and have retention capacities adequate to contain all produced water. The tanks should be constructed of materials that are corrosion resistent to the proposed storage materials. Spills, leaks, or other accidental discharges to the surface should not cause or contribute to the taking of any endangered or threatened species of plant, fish, or wildlife, nor cause harm to migratory birds.

If you have any questions concerning our comments, please contact Joy Winckel or Mary Orms at (505) 883-7877.

Sincerely,

for Jennifer Fowler-Propst
Field Supervisor

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Regional Administrator, U.S. Environmental Protection Agency, Dallas, Texas

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, the same day of the week for one (1) day consecutive weeks, beginning with the issue of

June 2, 19 93

and ending with the issue of

June 2, 19 93

And that the cost of publishing said notice is the sum of $ 38.61

which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 24th day of June, 19 93

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 renewal application has 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:

(BW-25) - Salado Brine Sales, William H. Brininstool, P.O. Drawer A, Jal, New Mexico, 88252, has submitted a discharge plan application for their proposed insitu extraction brine well facility to be located in the NE/4 NE/4, Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Proposed operations are for fresh water from the City of Jal's pipeline to be injected into the Salado Formation at an approximate depth of 1150 feet and brine water to be extracted through tubing. The brine water will have an average total dissolved solids (TDS) concentration of approximately 350,000 mg/1 and will be stored in four 1000 barrel above ground tanks. Groundwater most likely to be affected by an accidental discharge is at a depth of 40 feet with a total dissolved solids concentration of 875 mg/1. The discharge plan addresses injection well construction and operation, and how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-145) - GPM Gas Corporation, Vincent Bernard, 4044 Penbrook, Odessa, Texas, 79762, has submitted a discharge plan application for their proposed Zia Plant located in the NE/4 NE/4, Section 19, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico. Approximately 4050 gallons per day of process waste water will be collected and stored in above ground steel tanks prior to disposal at an OCD approved offsite commercial disposal facility. The total dissolved solids concentration of the waste water will not be known until the plant begins operations. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 2400 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 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 24th day of September, 1991.
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY,
Director
(SEAL)
Published in the Lovington Daily Leader June 2, 1993.

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

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

GIVEN under the Seal of the New Mexico Conservation Commission at Santa Fe, New Mexico, on this 24th day of September, 1993

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
s/William J. LeMay
Director

Journal: June 3, 1993

OIL CONSERVATION DIVISION
RECEIVED
'93 JUN 7 AM 9 37

STATE OF NEW MEXICO
County of Bernalillo ss

Dianne Berglund being duly sworn declares and says that she is National Advertising Sales Supervisor of **The Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, 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 3 day of June, 1993, and the subsequent consecutive publications on _____, 1993

Dianne Berglund

Sworn and subscribed to before me, a notary Public in and for the County of Bernalillo and State of New Mexico, this 3 day of June 1993.

PRICE $32.00

Statement to come at end of month.

KMB

OFFICIAL SEAL
Bernadette Ortiz
BERNADETTE ORTIZ
NOTARY PUBLIC-NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires 12-18-93

CLA-22-A (R-1/93) ACCOUNT NUMBER C 81184

MEMO TO FILE

The public notice for the Salado Brine Well and the GPM - Zia Gas Plant was written incorrectly stating that the date of W.J. LeMay's signature was 9-24-91, when in actuality it was 5-24-93.

The Albuquerque Journal changed the year to 93'.

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 24th day of September, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

XL TRANSPORTATION COMPANY

WHB/cb

P.O. DRAWER A
JAL, NEW MEXICO 88252
505-395-2010 800-748-2265
FAX 505-395-2914

May 19, 1993

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

Attn: Kathy Brown

Dear Kathy:

Please add this additional information to Salado Brine Sale file for application for brine permit. I still do not have final plat from John West Engineering.

Cordially,

Chris Brininstool
Office Manager

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101
Revised 1-1-89

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:
DRILL [X] RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:
OIL WELL ☐ GAS WELL [X] OTHER Brine well SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. Lease Name or Unit Agreement Name
Salado Brine Well #2

2. Name of Operator
William H. Brininstool dba Salado Brine Sales

8. Well No.
2

3. Address of Operator
P. O. Drawer A, Jal, NM 88252

9. Pool name or Wildcat
Salado

4. Well Location
Unit Letter A : 1305 Feet From The North Line and 60 Feet From The East Line

Section 20 Township T25S Range 37E NMPM Lea County

10. Proposed Depth	11. Formation	12. Rotary or C.T.
1,700'	Halite	Rotary

13. Elevations (Show whether DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx. Date Work will start
3073	1-Well	West Texas Water Well	June 1993

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14 3/4"	12 3/4"	28#	60'	50	Surface
9 7/8"	7"	23#	1200'	500	Surface
6 1/2"	2 7/8 Tubing	10.40#	1700'		

Proposed well will be drilled to approximately 1700'. A 14 3/4" hole will be drilled to a depth of 60' and 12 3/4" casing will be run and cemented to the surface. Propose to use 50 sacks Class C cement. A 9 7/8" hole will be drilled to the top of the Halite formation approximately 1100' to 1200' and 7" casing will be run and cemented to the surface. Propose to use 500 sacks class C cement. A 6 1/2" hole will then be drilled to approximately 1700'. Well will have approximately 1700' of 2 7/8" tubing.. Cement work will be performed by Halliburton Services. At this time a casing integrity test will be performed and logs will be run that is required by the Oil Conservation Commission.

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.

SIGNATURE William H Brininstool TITLE Owner DATE 5-10-93

TYPE OR PRINT NAME William H. Brininstool TELEPHONE NO. 505-395-2010

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
William H. Brininstool DBA Salado Brine Sales	BRINE	2

Unit Letter	Section	Township	Range	County
A	20	25 SOUTH	37 EAST NMPM	LEA

Actual Footage Location of Well:
1305 feet from the NORTH line and 60 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3073.5'			Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

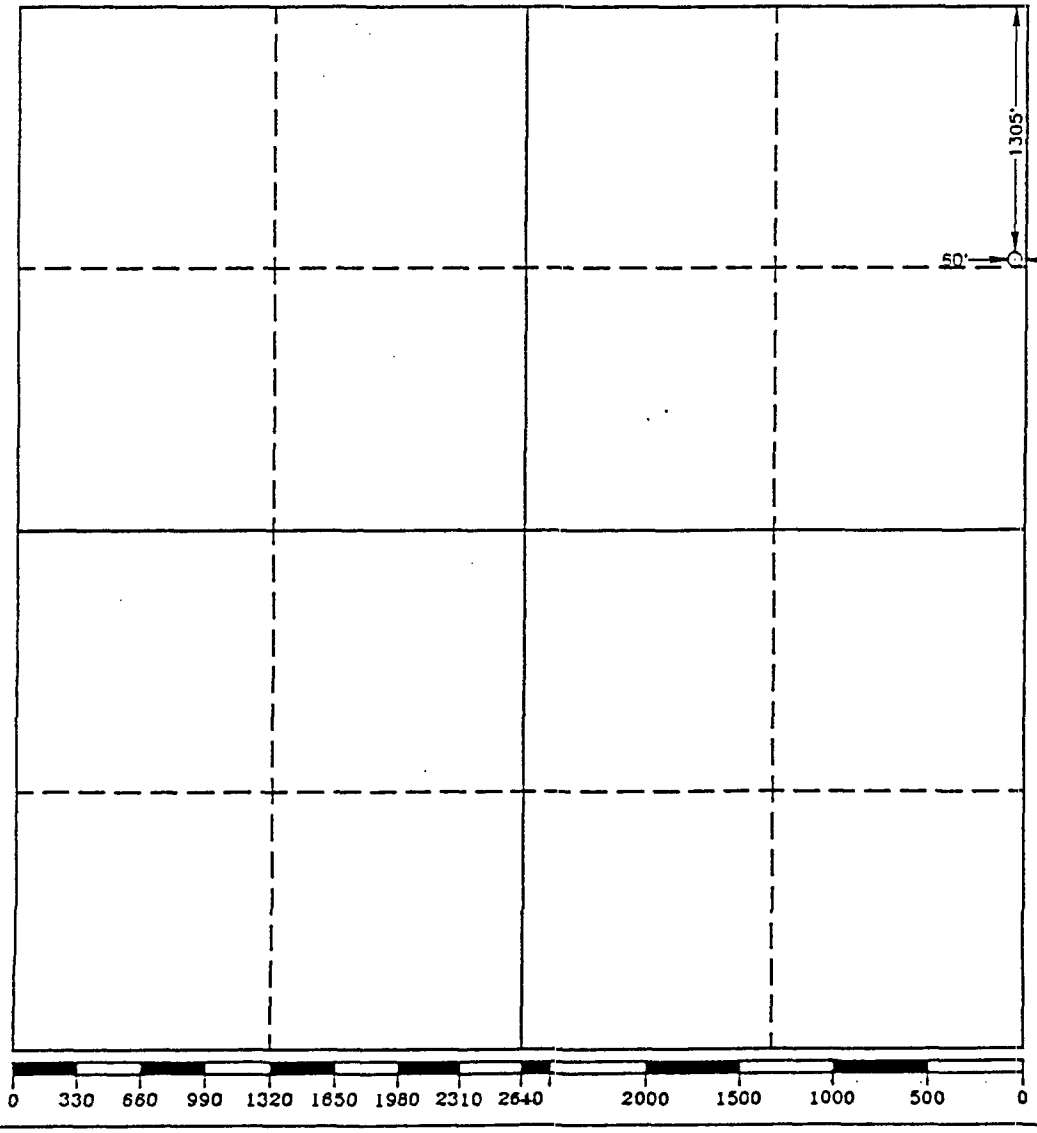
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature: Christine Brininstool
Printed Name: Christine Brininstool
Position: Office Manager
Company: Salado Brine Sales
Date: 5-19-93

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
MAY 04, 1993

Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. JOAN W. WEST 676
RONALD J. EIDSON, 3239
GARY L. JONES 7977

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies

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P.O. Drawer DD, Artesia, NM 88210

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1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101
Revised 1-1-89

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:
DRILL [X] RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:
OIL WELL ☐ GAS WELL [X] OTHER Brine well SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. Lease Name or Unit Agreement Name
Salado Brine Well #2

2. Name of Operator
William H. Brininstool dba Salado Brine Sales

8. Well No.
2

3. Address of Operator
P. O. Drawer A, Jal, NM 88252

9. Pool name or Wildcat
Salado

4. Well Location
Unit Letter A : 1305 Feet From The North Line and 60 Feet From The East Line

Section 20 Township T25S Range 37E NMPM Lea County

10. Proposed Depth	11. Formation	12. Rotary or C.T.
1,700'	Halite	Rotary

13. Elevations (Show whether DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx. Date Work will start
3073	1-Well	West Texas Water Well	June 1993

17.
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SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
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9 7/8"	7"	23#	1200'	500	Surface
6 1/2"	2 7/8 Tubing	10.40#	1700'		

Proposed well will be drilled to approximately 1700'. A 14 3/4" hole will be drilled to a depth of 60' and 12 3/4" casing will be run and cemented to the surface. Propose to use 50 sacks Class C cement. A 9 7/8" hole will be drilled to the top of the Halite formation approximately 1100' to 1200' and 7" casing will be run and cemented to the surface. Propose to use 500 sacks class C cement. A 6 1/2" hole will then be drilled to approximately 1700'. Well will have approximately 1700' of 2 7/8" tubing.. Cement work will be performed by Halliburton Services. At this time a casing integrity test will be performed and logs will be run that is required by the Oil Conservation Commission.

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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE William H Brininstool TITLE Owner DATE 5-10-93

TYPE OR PRINT NAME William H. Brininstool TELEPHONE NO. 505-395-2010

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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3073.5'			Acres

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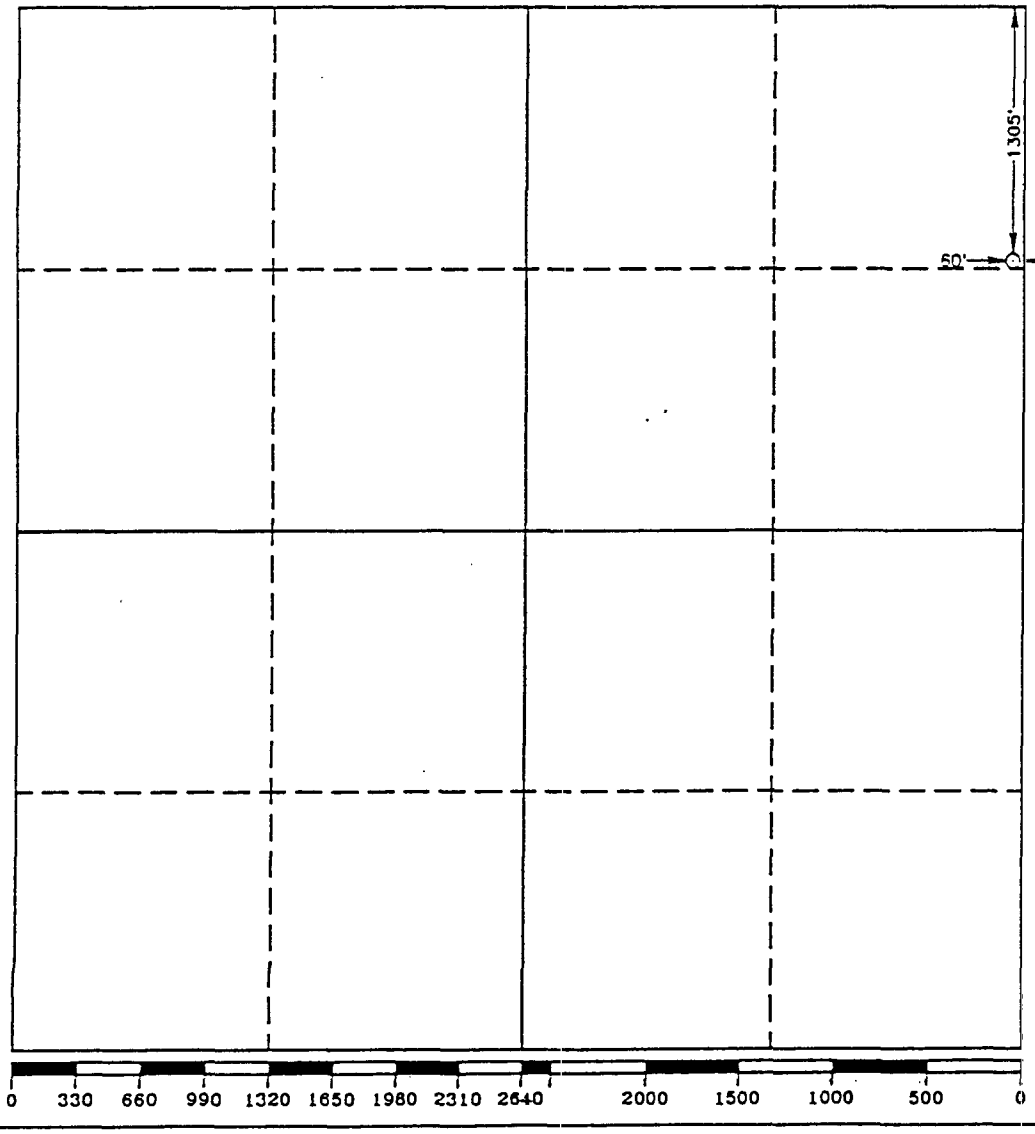

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Signature: Christine Brininstool
Printed Name: Christine Brininstool
Position: Office Manager
Company: Salado Brine Sales
Date: 5-19-93

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Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. JOHN W. WEST 676
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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101
Revised 1-1-89

API NO. (assigned by OCD on New Wells)
30-025-32394

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6. State Oil & Gas Lease No.

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1,700'	Halite	Rotary

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3073	1-Well	West Texas Water Well	June 1993

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6 1/2"	2 7/8 Tubing	10.40#	1700'		

Proposed well will be drilled to approximately 1700'. A 14 3/4" hole will be drilled to a depth of 60' and 12 3/4" casing will be run and cemented to the surface. Propose to use 50 sacks Class C cement. A 9 7/8" hole will be drilled to the top of the Halite formation approximately 1100' to 1200' and 7" casing will be run and cemented to the surface. Propose to use 500 sacks class C cement. A 6 1/2" hole will then be drilled to approximately 1700'. Well will have approximately 1700' of 2 7/8" tubing. Cement work will be performed by Halliburton Services. At this time a casing integrity test will be performed and logs will be run that is required by the Oil Conservation Commission.

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.

SIGNATURE William H Brininstool TITLE Owner DATE 5-10-93

TYPE OR PRINT NAME William H. Brininstool TELEPHONE NO. 505-395-2010

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
William H. Brininstool DBA Salado Brine Sales	BRINE	2

Unit Letter	Section	Township	Range	County
A	20	25 SOUTH	37 EAST NMPM	LEA

Actual Footage Location of Well:
1305 feet from the NORTH line and 60 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3073.5'			Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

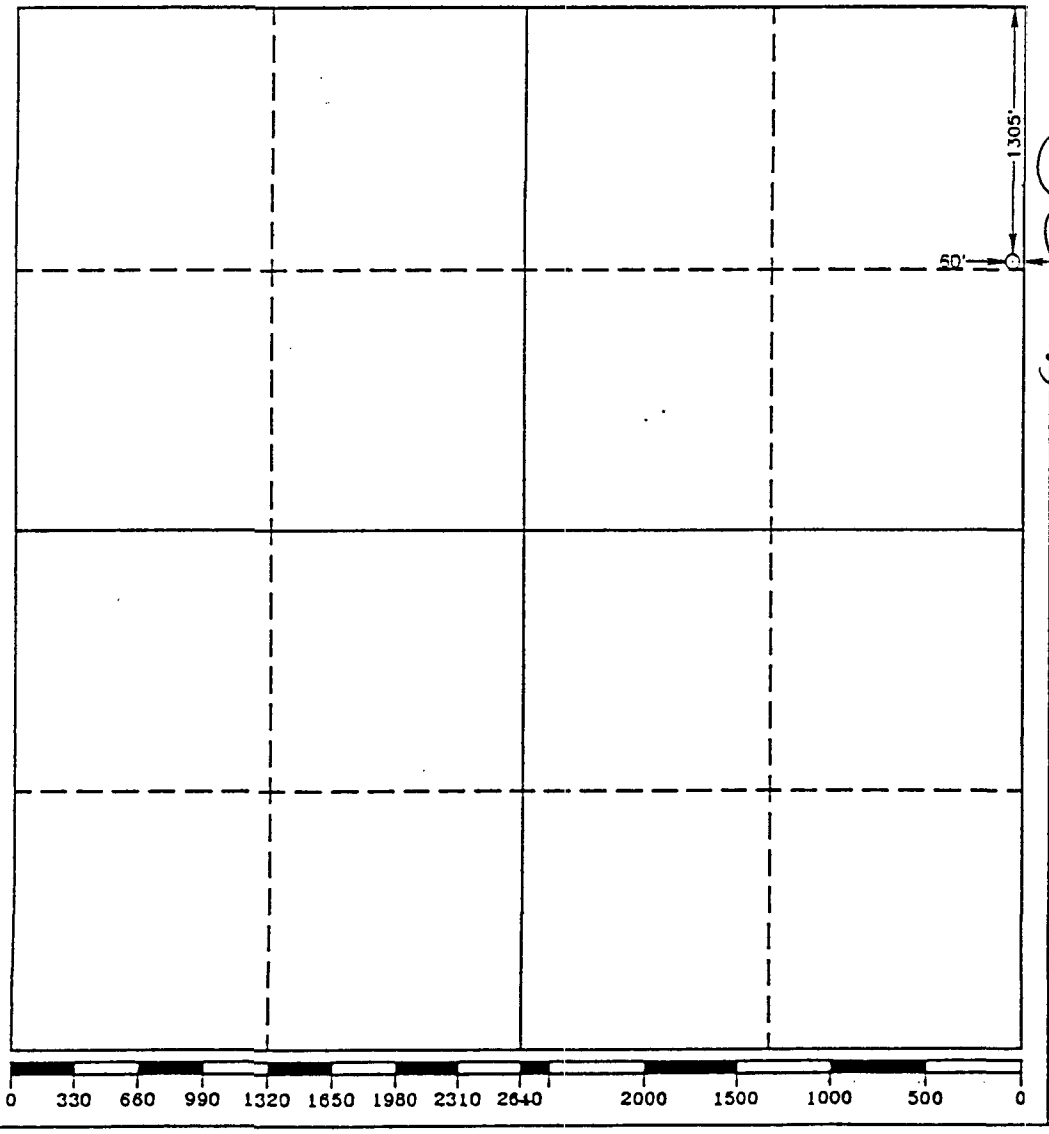
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature: Christine Brininstool
Printed Name: Christine Brininstool
Position: Office Manager
Company: Salado Brine Sales
Date: 5-19-93

SURVEYOR CERTIFICATION

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 supervison, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
MAY 04, 1993

Signature & Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. JOHN W. WEST 676
RONALD J. EIDSON 3239
GARY L. JONES 7977

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

94 JAN

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES

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

☒ NEW ☐ RENEWAL

I. FACILITY NAME: Salado Brine Sales

II. OPERATOR: William H. Brininstool

ADDRESS: P. O. Drawer A, Jal, NM 88252

CONTACT PERSON: Chris Brininstool PHONE: 505-395-2010

III. LOCATION: NE /4 NE /4 Section 20 Township 25S Range 37E
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: William H. Brininstool Title: Owner

Signature: William H Brininstool Date: 5-10-93

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

SALADO BRINE SALES

P. O. Drawer A
Jal, New Mexico 88252
505-395-2010

May 7, 1993

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

Attention: Kathy Brown

Re: Discharge plan Application for Brine Extraction

Dear Kathy:

William H. Brininstool dba Salado Brine Sales, P. O. Drawer A, Jal, New Mexico 88252, is proposing to drill a new brine well, well #2, in the NE/4 of the NE/4 of Section 20, Township 25S, Range 37E, NMPM, Lea County, New Mexico. As per our telephone conversation I am submitting this letter and a copy of the application for permit to drill so you may put notice of application in newspapers to determine if anyone protests application before finalizing purchase of land. If no protests William H. Brininstool will finalize purchase of land and he will be the surface owner. The Bureau of Land Management will be royalty owner.

Mr. Brininstool is the operator of Salado Brine Sales located in SE/4, Section 14, Township 25S, Range 37 East, NMPM, Lea County, New Mexico, Discharge Plan DP-320. Due to a lost circulation, Mr. Brininstool is forced to plug and abandon well and facility. At present there is no brine station located in Jal, New Mexico and we are now traveling approximately 30 miles to Texas to purchase brine. In 1991 Salado Brine Sales sold 187,011 bbls brine, 1992 sold 214,356 bbls of brine and in 1993, before closing of station, sold 69,846 bbls of brine. Mr. Brininstool has purchased 174,615 bbls brine in Texas the first 4 months of 1993.

Proposed well will be drilled to approximately 1700'. A 14 3/4" hole will be drilled to a depth of 60' and 12 3/4" casing will be run and cemented to the surface. The 12 3/4" casings is schedule

20 and weights 28# per foot. A 9 7/8" hole will be drilled to the top of the Halite formation approximately 1200' and 7" casing will be run and cemented to the surface. The 9 7/8" casing is schedule 30 and weights 23# per foot. A 6 1/2" hole will then be drilled to approximately 1700'. Well will have approximately 1700' of 2 7/8" tubing. The 2 7/8" tubing is schedule 40 and weights 10.40# per foot. Cement work will be performed by Halliburton Services. The first stage cement will be Class C cement approximately 50 sacks and the second stage cement is Class C cement approximately 500 sacks. At this time a casing integrity test will be performed and logs will be run that is required by the Oil Conservation Commission. The topographic map shows the approximate location of the proposed brine facility, the location of the fresh water supply pipeline and all water wells within a 1/4 mile radius.

Fresh water will be stored in 2 storage tanks at the well site. A caliche pad will be built around well site and fresh water storage tanks. The storage of brine and loading station area will be South of the brine well. A caliche pad will be built that will include the brine storage tanks, loading station area, sump and sufficient area for trucks to enter and exit. The location containing the brine storage and loading station will also be fenced. A fresh water line will run to the loading station and then line will continue to the fresh water storage tanks. The source of fresh water is the City of Jal's 8 inch water line. Connection to the city water line will be a 8 inch SDR 17 polyethylene pipeline positioned 18 inches below ground level. Fresh water will be pumped down the casing into the Halite formation forcing saturated brine water to the surface through 2 7/8" tubing, entering a 3 inch polyethylene pipeline buried 1 foot below ground level and travels via this pipeline to the brine storage tanks at the loading station. Once a month for 24 hours fresh water will be pumped down the tubing and brine return through casing for clean out. Brine storage tanks will consist of 4-1000 bbl tanks. Brine tanks will be bermed to contain a volume one-third more than the total volume of the interconnected tanks. A lined pit will not be used at this facility as was used at previous brine station as proposed brine station is located close to the City of Jal. A concrete loading rack will be installed where trucks can load either brine or fresh water. A line underground will run from loading rack to a concrete sump that will collect any spillage of water as trucks are loaded, similar to the loading rack and sump at previous brine station except loading rack and sump will be larger. If a leak, spill or other unanticipated discharge on the surface or underground occurs, Salado Brine Sales will notify the Oil Conservation Division in Santa Fe or the district office in Hobbs, Lea County within 48 hours.

Salado Brine Sales will notify the Oil Conservation Division prior to commencement of drilling, cementing of casing, well logging, mechanical integrity tests and any well work-over to allow opportunity for on site inspection by the director or his representative.

Salado Brine Sales will be visually monitored daily by Mr. Brininstool or one of his management employees . The Bureau of Land Management will conduct monthly inspections. Monthly reports are required by the Bureau of Land Management. Quarterly reports will be submitted to

the Oil Conservation Commission on fresh water injected underground and brine sold. A meter will be installed at the brine well site showing bbls fresh water injected and drivers will fill out tickets for each load hauled.

The maps showing cross-section, vertical and horizontal limits of all ground water having less than 10,000/1 TDS and generalized and specific maps and cross-sections depicting both regional and site-specific geology please refer to the following report: Ground Water Report #6, Geology and Ground Water Conditions in Southern Lea County, New Mexico, United States Geological Survey, State Bureau of Mines and Mineral Resources, New Mexico Institute of Mining & Technology.

If loss of mechanical integrity in the injection well, Salado Brine Sales will shut down, pull tubing and correct problem. If loss of mechanical integrity can not be corrected facility will be abandoned. Upon abandonment, drill holes will be properly sealed to protect water bearing aquifers in a manner approved by the Oil Conservation Division. Plugging procedure proposed is placing a cast iron bridge plug at bottom of casing with 20 sacks of cement on top of plug. A cement plug at the bottom of the fresh water zone that is approximately 400 feet. The last plug will be a cement plug at the surface. Between all plugs well will be filled with 10# salt gel. Decommissioning of surface facilities would consist of selling surface equipment, ripping of caliche pad and reseeding with BLM formula seed.

Removal of waste water from the sump will be hauled by truck to Jet Disposal System, Inc., P. O. Box 914, Kermit, Texas 79745. Jet Disposal System, Inc. is in Texas and is regulated by the Railroad Commission of Texas and owned by William H. Brininstool. Location and permits are:
Disposal Well Permit #04026
RRC Operator #432087
RRC District #8
Winkler County
API #42-495-31611
Well #9
Field Name: Scarborough
Lease Name: Scarborough H
Location: Sec. 4, Block C22, Survey P.S.L.
Disposal well into non-productive zone.

Map is enclosed showing proposed location and all surrounding drill holes. Also enclosed is a list of existing wells within a 1/4 mile radius.

John West Engineering of Hobbs, New Mexico has completed on site surveying and is preparing the final plate. When Salado Brine Sales receives plate copies will be submitted to your office.

After completion of drilling, logging, and casing integrity test all information will be sent to your office. After completion of brine storage and loading station location pictures will be made and sent to your office.

An analysis of the fresh water injected underground and an analysis of the brine water will be provided as soon as commencement of production. At the same time maximum and average injection pressures and injection volume will be provided.

Thank you for all the help you have provided. If you need more information please call.

Cordially,

Christine Brininstool

Christine Brininstool
Office Manager

Salado Brine Sales
P. O Drawer A
Jal, New Mexico 88252
505-395-2010

I, William H. Brininstool, attest that Christine Brininstool is duly authorized to represent Salado Brine Sales.

William H. Brininstool

Signed before me the 13th day of May 1993

Notary Public
State of New Mexico
MY COMMISSION EXPIRES 1/2/94

My commission expires:_____

OFFICIAL SEAL
Signature: _____
PAM MESSER
NOTARY PUBLIC-NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires

Salado Brine Sales
P. O Drawer A
Jal, New Mexico 88252
505-395-2010

I certify under penalty of law that I have personally 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 imprisoment.

Christine Brininstool

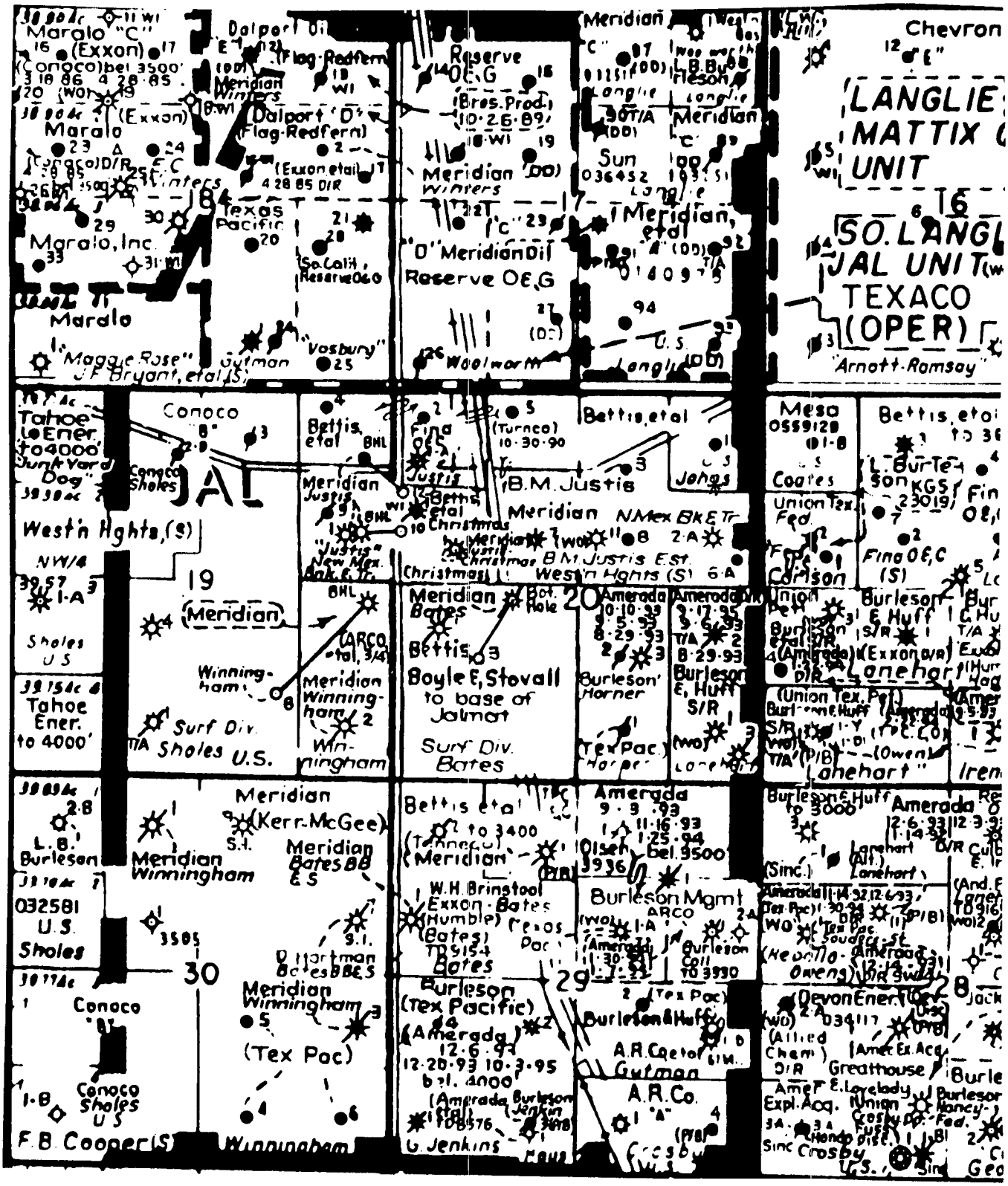
Christine Brininstool

Signed before me the 13th day of May 1993

Pam Messer

Notary Public
State of New Mexico
MY COMMISSION EXPIRES 1/2/94
My commission expires:_____

OFFICIAL SEAL
Signature: _____
PAM MESSER
NOTARY PUBLIC-NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires



* Proposed well

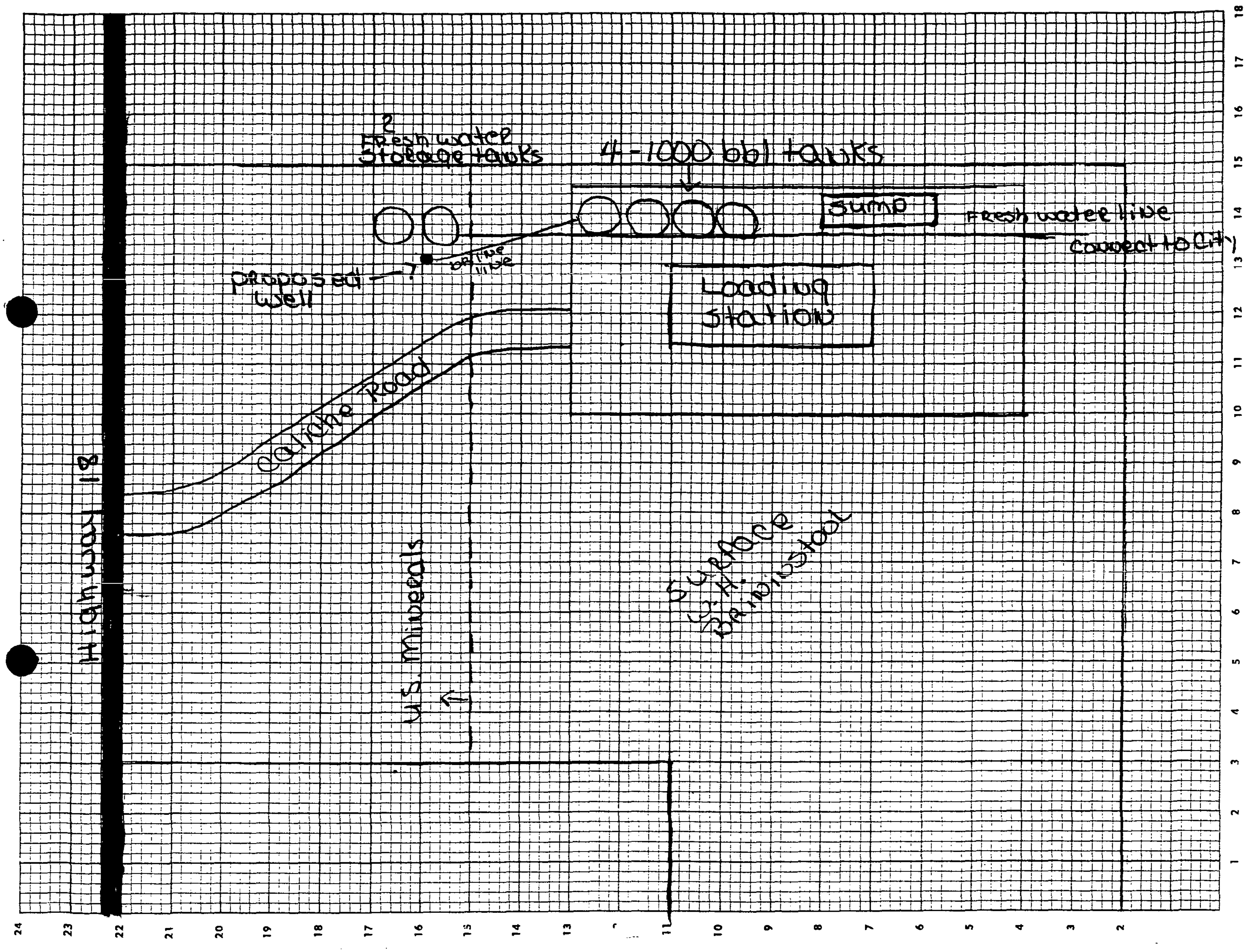
Bettis, Boyle & Stovall
P. O. Box 1240
Graham, Texas 76450
B. M. Justis "B" Well #8
B. M. Justis "A" Well #2
B. M. Justis "A" Well #3
Johns Federal Well #1

Meridian Oil Inc.
P. O. Box 51810
Midland, Texas 79710
Langlie Jal Unit Well #93
Carlson Well #2

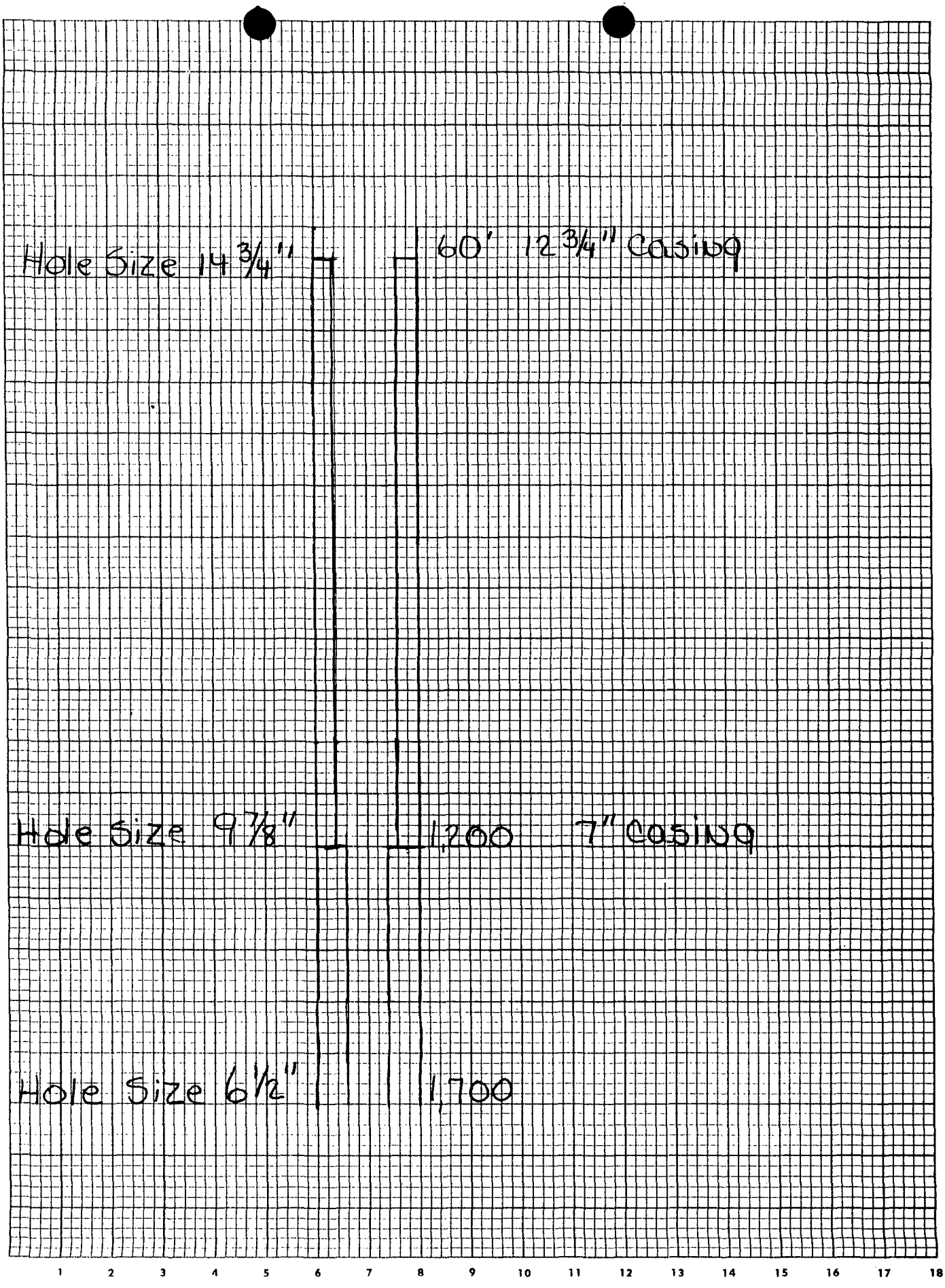
Mesa Oil Company
c/o Oil Reports & Gas Services, Inc.
Box 755
Hobbs, New Mexico 88241
A. B. Coates "B" Well #1

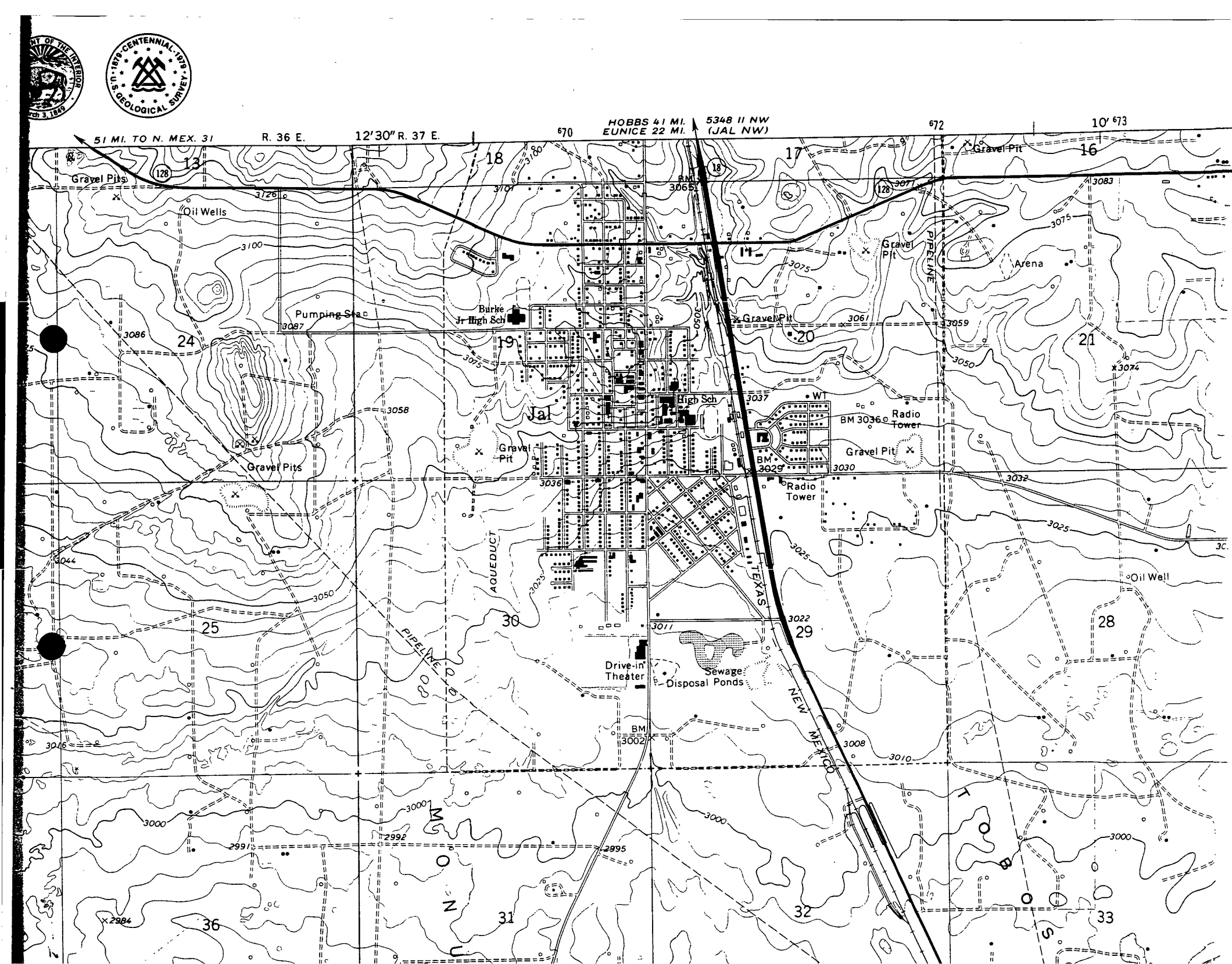
Chevron USA, Inc.
Box 688
Eunice, New Mexico 88231
Arnott-Ramsay (NCT-E) Well #3

Texaco Exploration and Production Inc.
P. O. Box 730
Hobbs, New Mexico 88240
South Langlie Jal Unit Well #9



2
Fresh water
Storage tanks
4-1000 bbl tanks
Sump
Fresh water line
Connect to City
Proposed Well
Loading Station
Caliche Road
Highway 18
U.S. Minerals
Surface
C. H. Brininstool


Hole Size 14 3/4"
60' 12 3/4" Casing
Hole Size 9 7/8"
1,200 7" Casing
Hole Size 6 1/2"
1,700


51 MI. TO N. MEX. 31
R. 36 E.
12'30" R. 37 E.
HOBBS 41 MI.
EUNICE 22 MI.
5348 II NW
(JAL NW)
670
672
673
10'
Gravel Pits
Oil Wells
Pumping Sta
Burke
Jr High Sch
Gravel Pit
Arena
PIPELINE
Jal
High Sch
Radio
Tower
BM 3036
BM
3029
Gravel Pits
Gravel
Pit
Radio
Tower
AQUEDUCT
TEXAS
NEW MEXICO
PIPELINE
Drive-in
Theater
Sewage
Disposal Ponds
Oil Well
BM
3002
MONUMENT
TOBOSO
13
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17
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24
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25
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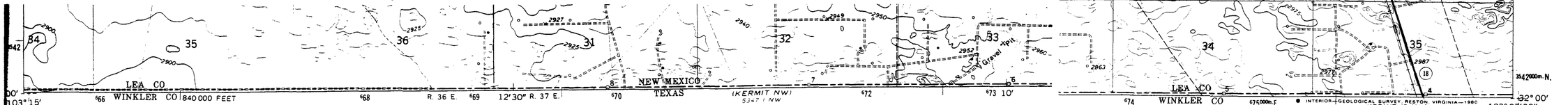
36
31
32
33



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1968. Field checked 1969

Polyconic projection. 1927 North American datum
10,000-foot grid based on New Mexico coordinate system, east zone
100-meter Universal Transverse Mercator grid ticks, Zone 13, shown in blue

Fine red dashed lines indicate selected fence lines

Revisions shown in purple compiled from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1979

MN
GN
0°58'
17 MILS
10°
178 MILS

UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

To place on the predicted North American Datum 1983 move the projection lines 10 meters south and 43 meters east as shown by dashed corner ticks

SCALE 1:24 000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1980

KERMIT 12 MI.
MONAHANS 34 MI.

ROAD CLASSIFICATION

Primary highway, all weather, hard surface ——— Light-duty road, all weather, improved surface ———

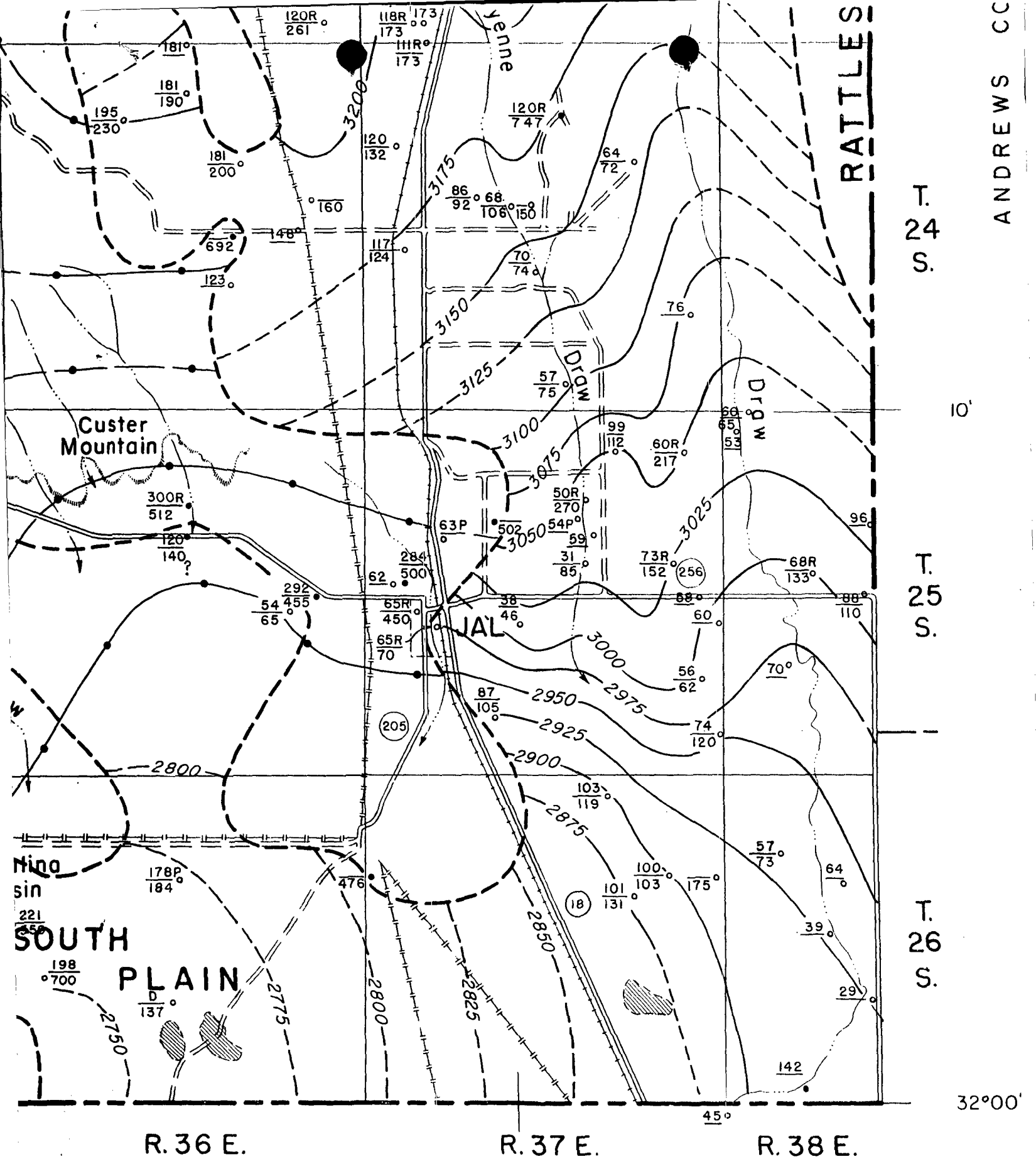
Unimproved road, fair or dry weather - - - - - - - -

State Route

JAL, N. MEX.—TEX.

N3200—W10307.5/7.5

1969
PHOTOREVISED 1979
DMA 5348 II SW—SERIES V881



Compiled by Alfred Clebsch, Jr., 1960, using data collected mainly by Alexander Nicholson, Jr., in 1953 and 1954.

EXPLANATION

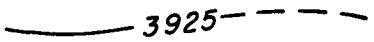
$\frac{150}{252}$ °

Water well

Upper figure is depth to water; lower figure is depth of well. Open circles are wells finished in Tertiary or Quaternary rocks; solid circles are wells finished in Triassic rocks

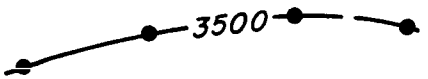
F = Flowing
R = Reported
P = Water level measured while pumping
D = Dry
? = Uncertainty as to aquifer
> = More than
< = Less than

(See tables 6 and 7 for detailed well data.)



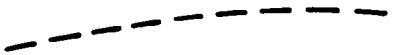
Water-table contour in Tertiary or Quaternary rocks

Dashed where inferred or uncertain. Contour interval 25 feet. Datum mean sea level

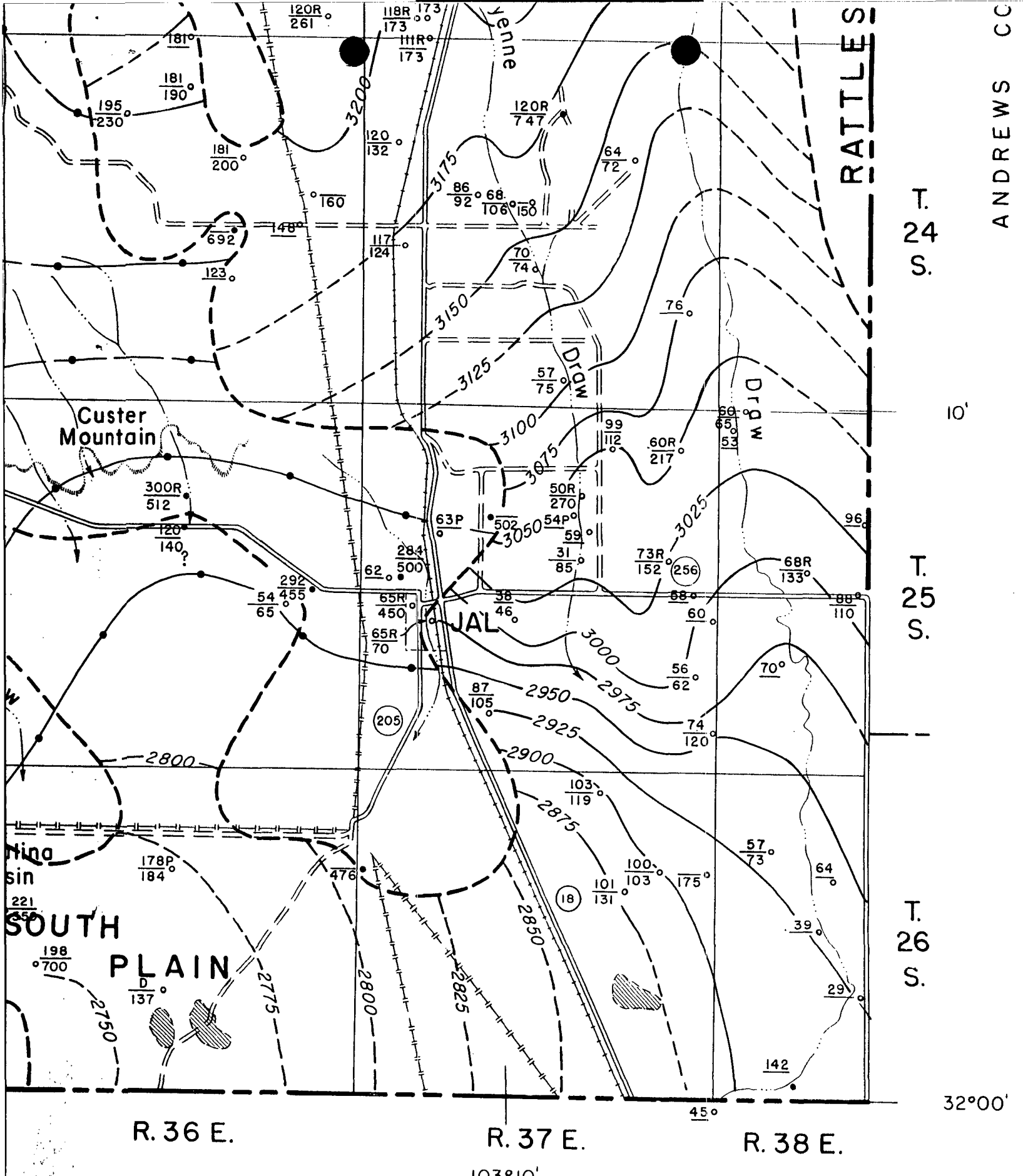


Water-table or piezometric contour on water body in Triassic aquifers

Dashed where inferred or uncertain. Contour interval 100 feet. Datum mean sea level



Approximate position of boundary between Triassic rocks and saturated Tertiary and Quaternary rocks



Compiled by Alfred Clebsch, Jr., 1960, using data collected mainly by Alexander Nicholson, Jr., in 1953 and 1954.

EXPLANATION

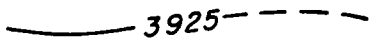
$\frac{150}{252}$ o

Water well

Upper figure is depth to water; lower figure is depth of well. Open circles are wells finished in Tertiary or Quaternary rocks; solid circles are wells finished in Triassic rocks

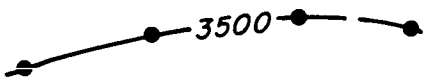
F = Flowing
R = Reported
P = Water level measured while pumping
D = Dry
? = Uncertainty as to aquifer
> = More than
< = Less than

(See tables 6 and 7 for detailed well data.)



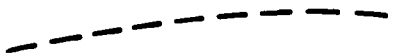
Water-table contour in Tertiary or Quaternary rocks

Dashed where inferred or uncertain. Contour interval 25 feet. Datum mean sea level



Water-table or piezometric contour on water body in Triassic aquifers

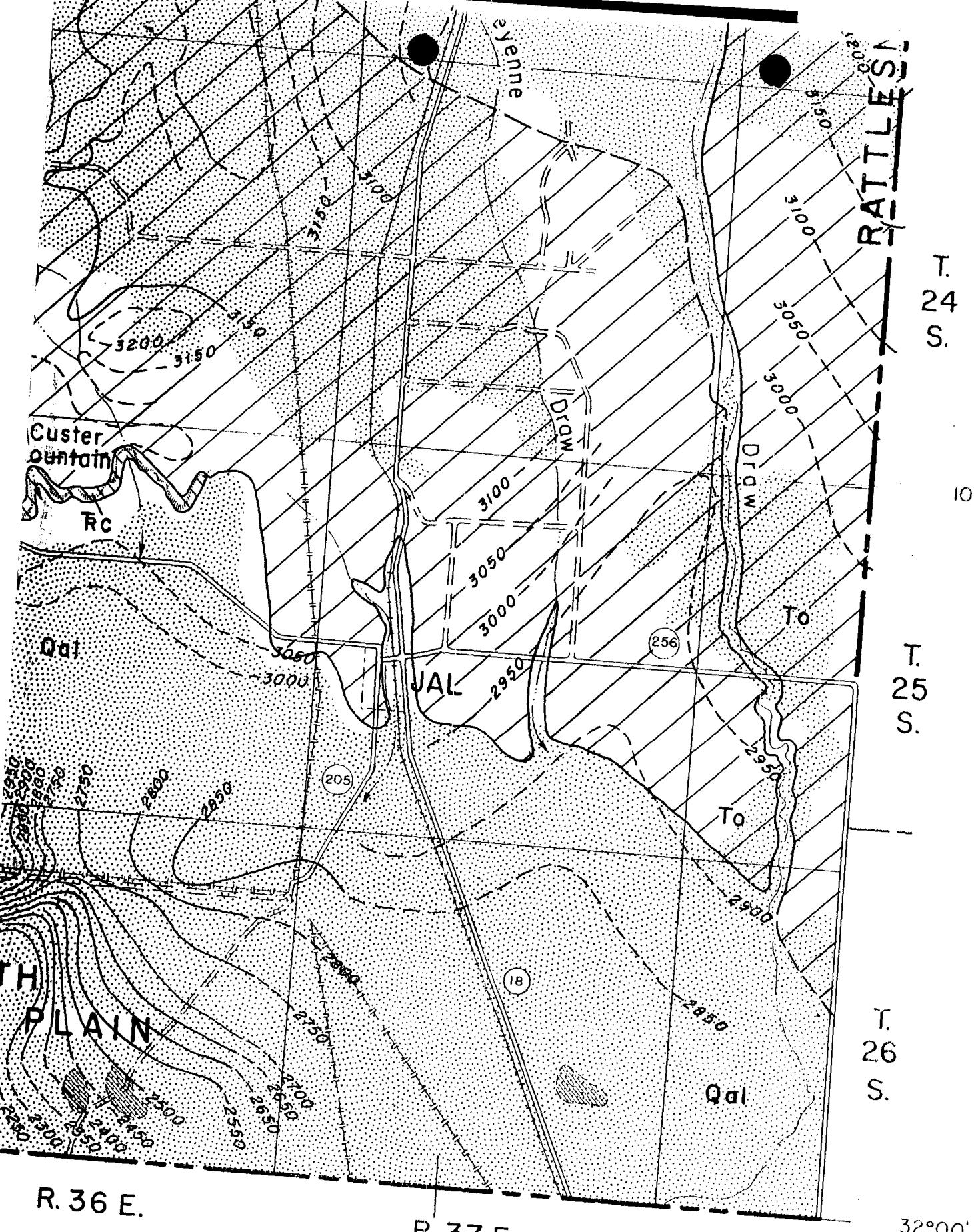
Dashed where inferred or uncertain. Contour interval 100 feet. Datum mean sea level



Approximate position of boundary between Triassic rocks and saturated Tertiary and Quaternary rocks

20'

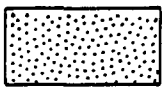
103°10'



WINKLER COUNTY

Geology by Alexander Nicholson, Jr., 1953-4.
Contours on buried red-bed surface compiled by Alexander Nicholson, Jr., Alfred Clebsch, Jr., and S. R. Ash from shothole logs, 1960.

EXPLANATION



Sand

Thin cover of drift sand in most places; locally dunes 20-40 feet high

QUATERNARY

Qal

Alluvium

Sand and gravel along dry washes; silt and sand in lake beds; includes some wind-deposited sand around depressions

To

Ogallala formation

Chiefly sand, poorly to well-cemented with calcium carbonate; contains some clay, silt, and gravel; capped in most places by caliche

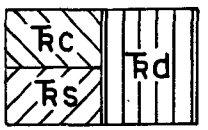
TERTIARY

Cretaceous rocks, undifferentiated

Slumped blocks of buff, tan, or white fossiliferous limestone

CRETACEOUS

Upper Triassic



Dockum group

TRC-*Chinle formation, red and green claystone, minor siltstone, and fine-grained sandstone;* TRS-*Santa Rosa sandstone, red to white poorly sorted, coarse-grained, crossbedded sandstone;* TRd-*rocks of the Dockum group, undifferentiated*

TRIASSIC

3500

Contours on the red-bed surface

Dashed where approximate or inferred. Contour interval 50 feet. Datum mean sea level

20'

103°10'

R. 36 E.

R. 37 E.

R. 38 E.

R. 39 E

Geology by Charles B. Hunt, 1974 - 1976 Cartography by Nicky M. Pearson, 1976

DESERT PAVEMENT

Not shown on map. Consists of a si[illegible]yer of closely-spaced stones angular or rounded, over a vesicular layer o[illegible]nd silt. Stones collect at the surface by a sorting action, apparently due t[illegible] and/or salt heaving, or swelling and shrinking of clay. Silt layer beneath the pavement may be partly eolian in origin. In general, within a particular part of the state, thickness of silt increases from about 1 to 12 inches with increasing age of the surface, due to advanced weathering and rock disintegration. Some areas of desert pavement also form where wind or water remove fine grained sediments, leaving behind the coarser lag deposits. While desert pavement favors high runoff, it protects the ground from erosion

CAVE DEPOSITS

Not shown on map. Commonly have gravel at base, recording an early stage of substantial water flow that eroded the cave. The gravel is overlain by clay or ochre deposited as the flow of water diminished, and this in turn is overlain by stalagmites. Stalagmites are overlain by dust. Fossil remains of Pleistocene animals may occur in deposits below the stalagmites; remains of Holocene animals characterize the overlying deposits. Other cave deposits occur in basaltic lavas, especially in the area southwest of the Zuni Mountains. These deposits include blocks fallen from the roofs, dust, and some ice

ORGANIC DEPOSITS

Not shown on map. Accumulations of fibrous peat in sedge marshes border many New Mexico lakes. Both fibrous and woody peat accumulated in small, poorly-drained depressions and mountain meadows. Mostly less than 15 ft

DESERT VARNISH

Not shown on map. A black stain of iron and manganese oxides on bare rock surfaces and on pebbles of desert pavement. Predates prehistoric pottery-bearing occupations of the region. Predominantly middle Holocene, partly late Pleistocene. Many of these stained surfaces have petroglyphs carved by prehistoric peoples

TRANSITIONAL DEPOSITS

Deposits transitional between those formed in situ and those transported; deposits moved downslope chiefly by gravity, particularly slow creep (colluvium). Also includes rock falls. Landslides and avalanches are shown as periglacial features

Colluvium includes the heterogeneous mantle of soil and rock fragments derived from residuum, bedrock, and/or unconsolidated surficial deposits moved slowly downslope by gravitational force and sheet wash. Slopes generally steeper than 20 percent. Mass wasting, the process causing debris to move downslope, is aided by added weight and lubrication of water-saturated debris, frost heaving, alternate wetting and drying of clays, crystallization of salts, growth of roots, burrowing and trampling by animals, falling of trees, and impact of hail or rain. These, like other erosional processes, may be accelerated by man's activities

Colluvium is basically a chaotic mixture of angular rock fragments and finer grained materials. In New Mexico colluvium is generally less than 10 ft thick (rarely 25 ft or more) but may grade into thick cones of debris at bases of hillsides. In the northeast and northwest parts of the state where steep shale slopes underlie resistant caprock of sandstone or lava, two, and locally three, ages of colluvium may be distinguished. These are thought to be mid-Holocene, late Wisconsinan and early Wisconsinan, respectively. Such occurrences provide an index of retreat of cliffs. Some shale slopes are armored and protected against erosion by blocks of the caprock.

On long dip slopes such as flanks of the Zuni Mountains and east flank of the Sacramento Mountains, the colluvium is generally thin (commonly 1 to 2 ft thick) except near the base of steep hillsides and is composed of the resistant rock, forming the dip-slope. Some of this colluvium could as well be mapped as stony residuum over limestone. Hillsides on granitic and volcanic rocks may also be overlain by thin but bouldery sandy colluvium. Colluvium on steep, faulted mountain fronts consists of a mixture of stones representing all the exposed formations upslope

co COLLUVIUM — Subscripts indicate the underlying hillside formations (e.g., co_{Tv}, colluvium on Tertiary volcanic rocks)

TRANSPORTED DEPOSITS

Most surficial deposits are rocks and particles weathered from bedrock in one area, transported by water, wind, ice, or gravity to an area of deposition, and are susceptible to further erosion and transportation. These deposits are much younger than — and unrelated to — the underlying bedrock. They are classified according to their mode of transportation to the site of deposition

ALLUVIUM IN FLOODPLAINS AND STREAM CHANNELS

Well stratified sandy and silty stream deposits with gravel lenses; gravel terraces along valley sides. Generally alluvial deposits record complex response to Quaternary climatic shifts. In New Mexico climates were comparatively wet during the Pleistocene glacial stages. Conversely, during the interglaciations, climates were drier, with conditions similar to Holocene environments. Alluvial deposits locally contain fossils, including bones of mammals and rodents, and shells of fresh-water snails and clams. Late Pleistocene deposits contain fossil remains of extinct animals such as elephants, camels, horses (not re-introduced until the arrival of the Spaniards), sloths, and long-horned bison. Archaeological remains are common in and on Holocene deposits and help date them. Three ages of alluvium generally can be distinguished: late Pleistocene, mid Holocene, and historic. At least three recognized types of alluvial floodplain deposits reflect relative capacity for sediment transport by the main stream and its tributaries. A fourth type, along the Pecos River in the southeastern part of the state, is characterized by saline ground. A fifth is restricted to basalt-capped mesas

al_1 FLOODPLAIN AND CHANNEL DEPOSITS ALONG MAIN STREAMS — Generally flat but includes terraces to about 10 ft high, shallow curved swales at cutoff meanders, and local stabilized dunes. Mostly sand, silt, and some layers of gravel. Caliche absent or weakly developed in thin veinlets, fibers, coatings on rocks, and soft nodules. Deposits commonly 25 ft thick. Ground water shallow, subject to pollution. Extensively farmed; subject to flooding

al_2 FLOODPLAIN AND CHANNEL DEPOSITS ALONG GENERALLY DRY ARROYOS AND WASHES — Includes deposits along some perennial or intermittent streams. Extent exaggerated to emphasize drainage patterns. Sandier than al_1; gradients 5 to 15 percent. Arroyos 10 ft deep common. Surface flat where deposit was formed by stream overflowing its banks; hummocky where built of coalescing fans at mouths of tributaries that crowd the main stream against its far bank, or V-shaped where alluvium grades laterally into fan sand washed from adjoining hillsides. Ephemeral perched water tables under some deposits. Width of deposits as represented has been exaggerated but total area probably about right because small deposits had to be omitted

al_3 COALESCING SILTY AND SANDY ALLUVIAL FANS — Intermediate between al and alluvial fan deposits fs and fsi

al_4 SALINE ALLUVIUM — Borders Pecos River south of Fort Sumner

al/b ALLUVIUM OVER BASALT — Restricted to basalt-capped mesas. Stony, or stony over alluvium in old valleys; thickness commonly 10 ft or more. Acid soils

tg GRAVEL TERRACES — Well-rounded stream gravels with cobbles 6 inches or more i[illegible]meter; some terraces 250 ft higher than the streams. Especially well develo[illegible]ng the San Juan River, less so along the Pecos, Gila, and Canadian Rive[illegible]ost represent deposits by Pleistocene melt waters from mountains. Abundant caliche deposits, especially on the higher terraces, which may be Kansan; lowest are Wisconsinan

ALLUVIAL FAN DEPOSITS

In alluvial fans, unlike floodplain alluvium, beds tend to be thick, massive, and highly lenticular rather than well stratified. This is characteristic of all the facies, whether boulder, gravel, sand, or silt. Beds lenticular and elongated down the slope of the fans; slopes 2 to 20 percent. Deposition mostly by flash floods, with poor sorting and mixed textures. Coarse-textured lenses commonly form ridges extending down the fan onto generally finer grained sediment. Boundaries between the textural facies of the deposits roughly parallel the fan contour, but detailed boundaries are irregularly lobate; those shown are approximations. Fan textures and slopes depend partly on composition of the parent rocks and partly on height and steepness of the bordering hill or mountain. Fans extensive in the Basin and Range part of the state where they comprise about half the total area; in other parts of the state, fans are small. On the larger fans, arroyos become shallower towards the toe; many head at low mounds that probably mark old mudflows. Ground subject to sheet flooding

fg GRAVEL FACIES — Bouldery towards apex of fan, grading downslope to cobble and fine gravel with increasing proportion of sand and finer grained material. Commonly dissected to form 2 to 3 levels of gravel benches up to 50 ft above present washes. A few streams (e.g., Mulligan Wash, Alamosa River, Cuchillo Negro Creek, and Rincon Arroyo are incised 100 ft below fan surfaces. On short, steep fans, depths of valleys generally decrease downslope. On the broad Palomas surface, west of the Rio Grande above Hatch, valleys maintain their depth. Except near the apex, extensive surfaces have smooth desert pavement. On short, steep fans, gravels show minimal weathering and are weakly cemented with caliche; age probably Wisconsinan and Holocene. On broad, more gently sloping fans, gravels are more weathered and commonly cemented by caliche; age probably pre-Wisconsinan. In south half of the state, gravel facies is characterized by creosote bush cover. Thin alluvial gravel covering pediments is denoted by fg over subscript that identifies parent formation

fs SAND FACIES — Sandy alluvium with subordinate amounts of fine gravel, silt, and clay. Forms at least four kinds of ground: 1) On short, steep fans sloping from the mountains of granitic or gneissic rock (e.g., parts of the Florida Mountains), this facies may form a smooth sandy layer a few feet thick covering gravel below; slopes 5 to 20 percent; washes 1 to 10 ft deep may expose underlying gravel. 2) On other short fans, sand facies may form arcuate belt at toe of fan with slopes averaging 10 percent, commonly reworked into coppice dunes 3 to 7 ft high (sm). 3) Other belts of smooth sandy ground commonly slope 5 percent or less and consist of sand mounds approximately 1 ft high over caliche (fs_2). 4) Gypsiferous sand (fs_3), especially in the Jornada del Muerto, Tularosa Valley and east side of the Pecos Valley. Sand facies absent on the broad Las Palomas surface. Thin fan sand covering pediments is denoted by fs over subscript that identifies underlying formation. Boundary with residual sand, fan gravel, and fan silt is approximate

fsi SILT FACIES — In Basin and Range parts of the state, toes of fans may be silty and clayey rather than sandy; surface smooth, with slopes less than 5 percent. Slow infiltration rates and low slopes result in sluggish runoff. Forms a belt below the sand facies and grades downward to playa silt (psi) with slopes less than 2 percent. Abundant swelling clays and exchangeable sodium. Surface layers predominantly Holocene; subject to sheet flooding, gradational with al_3. East and west of Sangre de Cristo Mountains, also forms fans of sandy or silty loam with little gravel in upper 3 to 4 ft, but abundant gravel below the loam. Caliche soft. Includes loess on isolated hilltops. Boundary with residual loam (rl), playa silt (psi), and fan sand (fs) approximate

EOLIAN DEPOSITS

Eolian deposits are laid down by wind, mostly as sheets of sand or silt (loess). Rarely, after prolonged drought on shale desert in the San Juan Basin, shale flakes may accumulate in rippled sheets or even small dunes, but with the next rain, these become mud. Sand dune shapes depend on topography, relative strength of the winds, supply of sand, and vegetation. Some dunes are concave towards the windward (parabolic), others are concave towards the leeward (barchans), and others are longitudinal or transverse. Some dune clusters (e.g., Great White Sands) have all four kinds. Dunes may climb a windward slope or fall on a leeward slope. Most of New Mexico's eolian sand sheets have a basal layer of weathered, partly cemented, reddish stabilized sand; some sand surfaces on such layers are smooth. In the Basin and Range and Great Plains parts of the state, these surfaces are generally underlain by caliche; in the San Juan Basin, sand sheets commonly overlie residuum, fan deposits, or bedrock. Where sand is thick, as on sand facies of fans in the Basin and Range and at climbing dunes east of the Pecos River (Mescalero Sands) the sand is in mounds (coppice dunes) with profuse growth of vegetation — mesquite, and saltbush in the Basin and Range; sand sage, shinnery oak, small soapweed yucca, and occasional mesquite on the Mescalero Sands. Sand sheets are predominantly late Pleistocene; mounds and dunes are largely Holocene

s/b SAND UNDERLAIN BY BASALT — Extensive on basaltic plains south and east of Zuni Mountains and on West Potrillo Mountains. At Kilbourne Hole and Hunt's Hole, the sand is of volcanic origin

s/ca/QTs SAND UNDERLAIN BY CALICHE ON SANTA FE GROUP — Mostly on La Mesa and south part of the Jornada del Muerto

s_1/ca/To THIN SAND ON CALICHE ON OGALLALA FORMATION — Thickness about 1 ft. Chips of caliche comprise 30 percent of the sand. Generally too shallow for farming, but good shallow source for aggregates

s_2/ca/To MODERATELY THICK SAND ON CALICHE ON OGALLALA FORMATION — Sand 1 to 3 ft thick. Surface layers noncalcareous over reddish loam. Local sand mounds. Ground favored for farming. Boundaries approximate

s_3/ca/To THICK SAND ON CALICHE ON OGALLALA FORMATION — Sand 3 to 6 ft thick. Local mounds. Brownish-red, fine sandy loam over reddish-brown, sandy clay loam; noncalcareous to depths of 3 ft; calcareous subsoil contains filaments of lime carbonate. Where farmed, ground is subject to wind erosion. Boundaries approximate

sm LOOSE SAND IN MOUNDS — Coppice dunes, commonly 3 to 7 ft high and 25 to 50 ft in diameter; generally elongated north of east but a local exception lies east of Columbus where elongation is south of east. Age is Holocene. Boundaries fairly accurate

es, s SAND SHEETS — Surfaces smooth except for ripples 2 to 3 inches high and scattered sand mounds 3 to 12 inches high, especially around small shrubs. Thickness of loose sand generally no more than about 12 to 24 inches, but commonly overlies stabilized sand. Underlying material where known identified by subscript

ds LONGITUDINAL DUNES — Sand commonly 6 ft thick, locally 10 ft. Forms distinct ridges generally oriented north of east. Locations diagrammatic and width exaggerated

ds OTHER DUNES — ds_1, quartzose sand, ds_2, gypsiferous sand

l/b LOAM ON OLD BASALTIC LAVA — Probably pre-Wisconsinan loess

si EOLIAN SILT

EXPLANATION OF SURFICIAL GEOLOGY

by Charles B. Hunt 1977

LAKE AND PLAYA DEPOSITS

New Mexico has five kinds of lake d[eposits] in addition to those forming today in artificial reservoirs. The most exte[nsive] deposits were laid down in Pleistocene lakes that flooded closed basins now marked by playas. Many of these deposits in the Basin and Range are alkaline flats. Most numerous are the so-called "buffalo wallows" of the Great Plains on the Ogallala Formation. Some of these wallows are deflation hollows with sand mounds on the lee side; others may be due to solution and sagging of the surface. Still others may be attributed to warping. Third are sinkholes clearly due to solution, like Bottomless Lakes; sinks at Santa Rosa and some of the depressions (related to karst) of the San Andres Formation and caliche-covered ground north of the Sacramento Mountains. A fourth type is represented by ephemeral ponds in swales marking cutoff meanders on alluvial floodplains. A fifth type occurs only in the maar volcanoes at Kilbourne Hole, Hunt's Hole, and Zuni Salt Lake. Only the first three types appear on the map. Area of deposits represented has been exaggerated because of map scale, but total area probably about right because smaller deposits are omitted

psi — SILTY LAKE OR PLAYA DEPOSITS — *Ground mostly bare, gypsiferous deposits labeled psi₂*

ps — SANDY LAKE OR PLAYA DEPOSITS — *Gypsiferous deposits labeled ps₂*

bc, bg — BEACH DEPOSITS — *Sand or gravel; sandy stretches mostly reworked into low dunes. Incompletely shown*

ev — EVAPORITES — *Saline or alkaline deposits precipitated from brines in playas having high evaporation rates, notably Estancia Valley, Animas Valley, and Zuni Salt Lake. Salts are gradational with playa silt (psi) and occur in orderly concentric zones reflecting relative solubility of the salts. Thicknesses range from 1 to several inches, but salts mixed with mud may be tens of feet deep. Efflorescent crusts subject to wind erosion contribute to salinity of ground to leeward*

GLACIAL AND PERIGLACIAL DEPOSITS

During the Pleistocene New Mexico had mountain (alpine) glaciers high on the Sangre de Cristo Range, Tusas Mountains, and Sierra Blanca Peak. The source of such glaciers was in nearly circular, steep-sided basins (cirques) at valley heads. High valleys eroded by the glacial tongues tend to be U-shaped; at lower elevations where eroded by streams, these valleys are V-shaped. Gravels deposited along each side of valley ice represent debris that rolled down the mountainside onto the ice to form lateral moraines. Hummocky ridges of sand and gravel deposited across the lower ends of the glaciers form terminal moraines. Within the cirques generally stand two ramparts of boulders. An inner rampart, forming today, is located at the lower edge of the snowbank that accumulates annually in the cirque; it represents rocks broken by frost from the headwall of the cirque, rolled down the snowbank, and collected at the ridge. These inner ridges are treeless. Farther out in the cirque — perhaps at the mouth — is a second ridge, forested, with firm unweathered rock darkly stained with iron and manganese oxide. These outer cirque ridges formed during the mid-Holocene "little ice age"

mg — DEPOSITS AND GEOMORPHIC FEATURES OF PLEISTOCENE MOUNTAIN GLACIERS — *Extent exaggerated*

pg — PERIGLACIAL DEPOSITS ON MOUNTAIN TOPS — *Primarily represented by boulder fields and patterned ground where frost action was intensive during the glaciations. Extent and boundaries approximate; graded laterally to stony residuum and colluvium*

av — AVALANCHE DEPOSITS — *Bouldery; some are lag concentrates of boulders where fine-grained sediments have been removed by erosion. Deposits narrow and long downslope; commonly 10 to 50 ft thick. Apparently deposited as mudflows during late Pleistocene time when there were numerous perennial mountain snowfields. Frost action at the time was vigorous; sudden thaws could trigger floods or mudflows on the mountainsides. Slow movement downslope may be reactivated in artificial cuts through these deposits if water enters the plane of slippage*

lds — LANDSLIDE DEPOSITS — *Abundant on slopes of Cretaceous shale. Whereas avalanche deposits are elongate downslope, landslide deposits are short downslope but wide along the contour. Characteristically, they retain a cap of the lava or sandstone sloping into the hillside atop a steep colluvial-covered shale slope. Stabilized landslides may be reactivated if water is allowed to enter the plane of slippage*

MISCELLANEOUS TYPES OF GROUND

BASALT — *Includes lava flows, lava cones, cones of scoriae, necks, and fields of scoriae. Predominantly Quaternary and late Tertiary; some young enough to have sustained minimal weathering and retained their original structures and shapes are commonly referred to as malpais (Spanish, bad ground). Includes some Tertiary basalt that conspicuously controls the topography. Locally covered by loam (l/b, eolian deposits, al/b, stream deposits). These older surfaces are more deeply eroded, tilted, and faulted. Individual flows generally less than 50 ft thick; locally, several flows may aggregate a few hundred feet thick. Commonly interbedded with volcanic ash (tuff). Excludes lavas mantled by loess or other sediments; such areas indicated by subscript (e.g., l/b — loam over basalt; fs/b — fan sand over basalt). Boundaries shown are adequate*

OTHER BEDROCK — *Colluvium or other cover amounts to less than half the area. Only extensive areas are shown; age and rock type keyed by symbol to State geologic map (e.g., Kd, Cretaceous Dakota Sandstone, Ꞧs Triassic Santa Rosa Sandstone). Many small areas omitted; indicated boundaries are approximate. Principal formations and subscripts used are:*

- Qg — *Gatuna Fm.*
- Qbt — *Bandelier Tuff*
- Qrv — *Rhyolite flows*
- QTsf — *Upper Santa Fe Group*
- QTs — *Santa Fe Group, undivided, and related formations*
- QTg — *Gila Conglomerate*
- To — *Ogallala Fm.*
- Tsa — *Lower Santa Fe Group*
- Tc — *Chuska Sandstone*
- Tu — *Alluvial and lacustrine deposits*
- Tca — *Carson Conglomerate (generally equivalent to Los Pinos Fm.*
- Tpi — *Picuris Tuff*
- Tp — *Potosi volcanic series*
- Tv — *Tertiary volcanics; largely Datil Fm. in SW; includes some pre-and post Datil volcanic sequences*
- Tbb — *Blanco Basin Fm*
- Tg — *Galisteo Fm*
- Tsj — *San Jose Fm*
- Tn — *Nacimiento Fm.*
- T — *Tertiary sedimentary formations in Raton district*
- TSpc — *Poison Canyon Fm*
- TKa — *Animas Fm.*
- TKr — *Raton Fm.*
- TKoa — *Ojo Alamo Sandstone*
- Kv — *Volcanics of Cretaceous age; various composition*
- Kkf — *Kirtland Shale and Fruitland Fm.*
- Kpc — *Pictured Cliffs Sandstone*
- Kl — *Lewis Shale*
- Kmv — *Cretaceous sandstone and shale, mostly Mesaverde Fm.*
- Kch — *Cliffhouse Sandstone*
- Kpl — *Point Lookout Sandstone*
- Ksh — *Cretaceous shale*
- Kg — *Gallup Sandstone*
- Km — *Mancos Shale*
- Kd — *Dakota Sandstone*
- J — *Jurassic, undivided*
- Jm — *Morrison Fm.*
- Jz — *Zuni Sandstone*
- Ꞧ, J — *Triassic and Jurassic, undifferentiated*
- Ꞧ — *Triassic, undifferentiated*
- Ꞧgc — *Glen Canyon Sandstone*
- Ꞧc — *Chinle Fm*
- Ꞧs — *Santa Rosa Sandstone*
- Pa — *Artesia Fm.*
- Pat — *Artesia Group*
- Psa — *San Andres Fm. (limestone)*
- Pg — *Glorieta Sandstone*
- Pc — *Cutler Fm*

- Py — *Yeso Fm.*
- Pa — *Abo Fm.*
- Ph — *Hueco Fm.*
- Pzl — *Paleozoic, undivided*
- Pms — *Madera Limestone and Sandia Fm., undivided*
- P, P — *Permian, Pennsylvanian*
- M, D — *Mississippian, Devonian*
- S, O, Є — *Silurian, Ordovician, Cambrian*
- pЄ — *Precambrian*
- gr — *Granitic, gneissic, and intrusive rocks of various ages*

D — *Disturbed ground. Mostly urban areas large enough to show on state base; farmed lands excluded. Includes airports, mined areas, tailings dumps, and feedlots. Incompletely shown*

X — *Open pits for road fill, sand, gravel, caliche, or other aggregates*

Playa-lake depressions. Mostly small closed basins produced by eolian activity and local solution subsidence

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New Mexico State University, Agricultural Experiment Station, Research reports showing soil association and land classification for irrigation for each county

New Mexico State Highway Department supplied data for aggregate resources in New Mexico

Soil Conservation Service, 1/62,500 aerial mosaics of New Mexico Quadrangles

Data from these and other sources were plotted on the 1/250,000 quadrangle maps, field checked with about 40,000 mi of automobile traverses and 20 hours aerial reconnaissance over areas difficult of ground access. Mapping began spring 1974 and was completed June 1976

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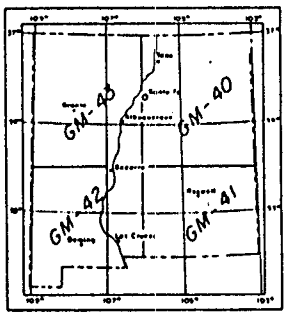


Index map of New Mexico

YUCCA PLANTS

[OF NEW MEXICO

INTRODUCTION

Surficial geology concerns the origin, distribution, and significance of deposits and soils at or near the earth's surface. Completely bare bedrock forms probably less than 5 percent of New Mexico's land surface; consequently surficial materials form by far the largest and most-used part of the ground around us. Several aspects of surficial geology that contribute significantly to an understanding of our environment are water yielding properties of the ground; its susceptibility to flooding and erosion; its susceptibility to such hazards as landslides, avalanches, and earthquakes; ease of excavation; suitability for foundations and road building; agricultural potential, including suitability for irrigation or pasturage; and mineral resources potential

Surficial materials commonly are poorly consolidated, consisting partly of bedrock weathered in situ (residuum), but mostly of sediments derived by erosion and transported by water, wind, ice, or gravity (mass wasting) to a site of temporary deposition before being further eroded and transported downslope

Four major categories of surficial materials are distinguished on the map by color: residual materials, transitional deposits, transported deposits, and miscellaneous types of ground

RESIDUAL MATERIALS

Materials generally formed in place, including: residuum, *formed in situ by weathering of a parent formation;* caliche; travertine and related spring deposits; shale or sandstone baked by coal beds burning in situ (clinker); karst and related deposits in sinks; *and the following, which are not distinguished on the map --* organic deposits; desert pavement; cave deposits; and desert varnish

RESIDUUM

In New Mexico, residuum tends to be thin, generally less than 2 ft thick -- rarely as much as 5 ft. Texture depends upon composition of parent rock, and ranges from clay to coarse sand; texture may be bouldery in granitic areas. Areas shown as residuum include small outcrops of parent rocks and some alluvial or eolian deposits either mistaken for residuum or too small to show on the map. These materials are predominantly of late Pleistocene (Wisconsinan) or Holocene age. Ground is hummocky with slopes less than 10 percent; scattered small outcrops of resistant beds form small ledges

r[l] LOAMY RESIDUUM — *Texture variable -- mixed clay, silt, and sand. Thickness 1 to 5 ft. Parent formations fine grained, shallow, and identified by subscripts. Where clayey, this residuum generally contains appreciable amounts of swelling clay and is highly susceptible to sodium exchange, especially over the Chinle Formation (subscript Trc), Cretaceous shale (subscript Ksh), and Tertiary clayey volcanic formations. Slopes locally 10 percent and subject to washing. Although the unit is distinctive, the indicated boundaries are approximate*

r[s] STONY RESIDUUM — *Stony residuum, with accompanying sand and silt. Thickness mostly less than 3 ft. Texture variable depending on parent material, indicated by subscript. Boundaries gradational with* co *and* fg

l/b STONY LOAM OVER BASALT — *Lithology highly variable; locally abundant clay and silt, probably loessial; stones basaltic, mostly rough scoriae or angular blocks and flakes. Includes alluvium along small washes; numerous basalt mounds and low scarps along some washes and at edges of flows; thickness generally less than 3 ft. Surface smooth; slopes usually less than 5 percent except at sides of washes, bases of volcanic cones (including spatter cones), and edges of flows. Not subject to severe erosion. Boundaries indicated are fairly well defined despite variable lithology; boundaries with alluvium are approximate*

rs/[Kd] SANDY OR SANDY LOAM RESIDUUM — *The shallow sandy or sandy silt substrates are distinguished by subscripts (e.g., rs/Kd, sandy residuum over Dakota Sandstone). Thickness commonly 1 ft. Subject to wind erosion where vegetation is sparse; minimal washing. A distinctive unit with adequate boundaries, except in the San Juan Basin and along the Canadian River*

r/gyp[r] GYPSIFEROUS AND SANDY RESIDUUM ALONG PECOS RIVER VALLEY — *Parent material Artesia (Pat) and related formations. Rarely over 2 ft thick. Numerous small outcrops of gypsum thinly mantled by loose sand with or without small pebbles. A distinctive unit; boundaries are approximate*

r/ls RESIDUUM ON LIMESTONE — *Widespread on east slope of Sacramento Mountains, Chupadera Mesa, and flanks of Zuni Mountains; less extensive on Cretaceous limestone beds south of Raton. Stony and blocky; generally well cemented with calcium carbonate; little subject to erosion. Slopes average steeper than most residuum. Thickness generally less than 2 ft, rarely as much as 5 ft. A distinctive unit; boundaries indicated are adequate*

CALICHE

ca CALICHE — *Partly indurated zone of calcium carbonate accumulation formed in upper layers of surficial deposits; 2 to 10 ft thick; commonly overlain by windblown sand. Much caliche shown on the map consists of tough, slabby surface layers underlain by calcium carbonate nodules that grade downward to fibers and veinlets. Especially well developed in Basin and Range and Great Plains parts of the state. Thick caliches (locally >20 ft) associated with undissected High Plains surfaces of the Great Plains commonly comprise an upper sequence of several carbonate-cemented zones interlayered with reddish loamy paleosol horizons over a basal caprock zone developed on Ogallala (To) sediments. Forms on various types of parent formations, indicated by subscripts. The extensive caliche along Rio Salado northwest of Socorro is partly a travertine deposit. Where buried by sand, the caliche is identified by subscript* ca. *A distinctive unit; boundaries are well defined where the caliche forms rimrock and approximate where exposed in deflation hollows. Where thick and well indurated, caliche is quarried for road metal and other aggregate, subject to minimal erosion*

SPRING DEPOSITS

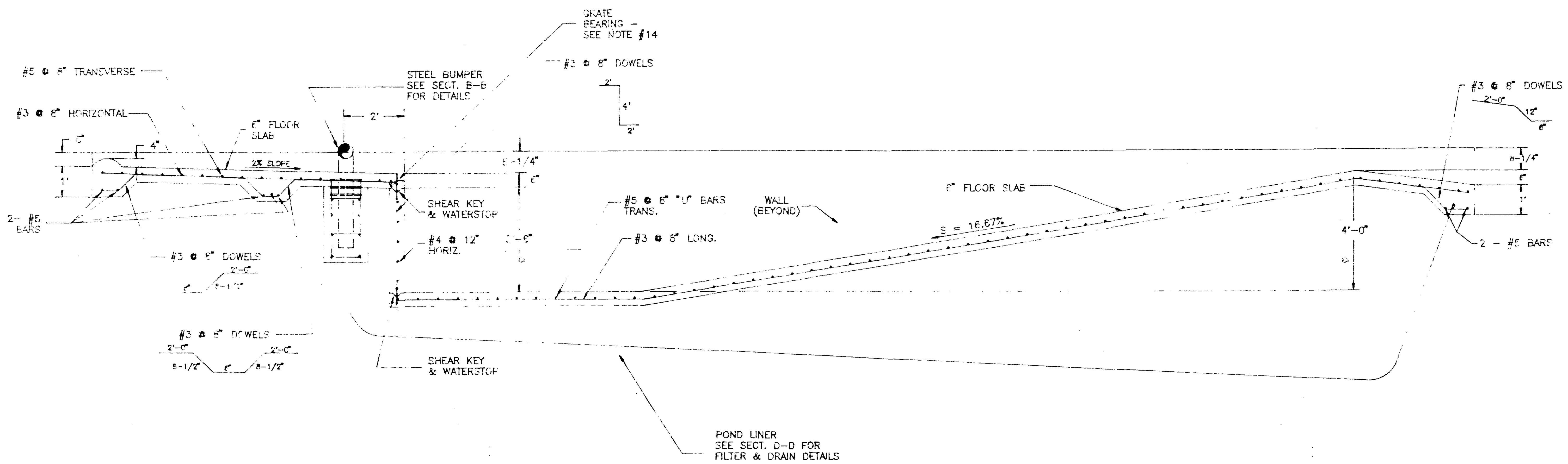
sp o TRAVERTINE AND RELATED DEPOSITS — *Most deposits shown have been formed at springs discharging water hotter than 100°F (34°C). Travertine mounds and benches to 50 ft high. Deposits at east base of Mesa Lucero may not have been created by hot springs*

CLINKER

cl o SLAGGY COAL ASH AND VITRIFIED SHALE AND SANDSTONE MASSES FUSED BY BURNING COAL BEDS — *Incompletely shown -- coal may ignite spontaneously, by lightning or ground fire. Depending on oxygen availability, the coal may burn tens of feet back into the ground. Common in coal-bearing formations of San Juan Basin and Raton district. Used for road metal*

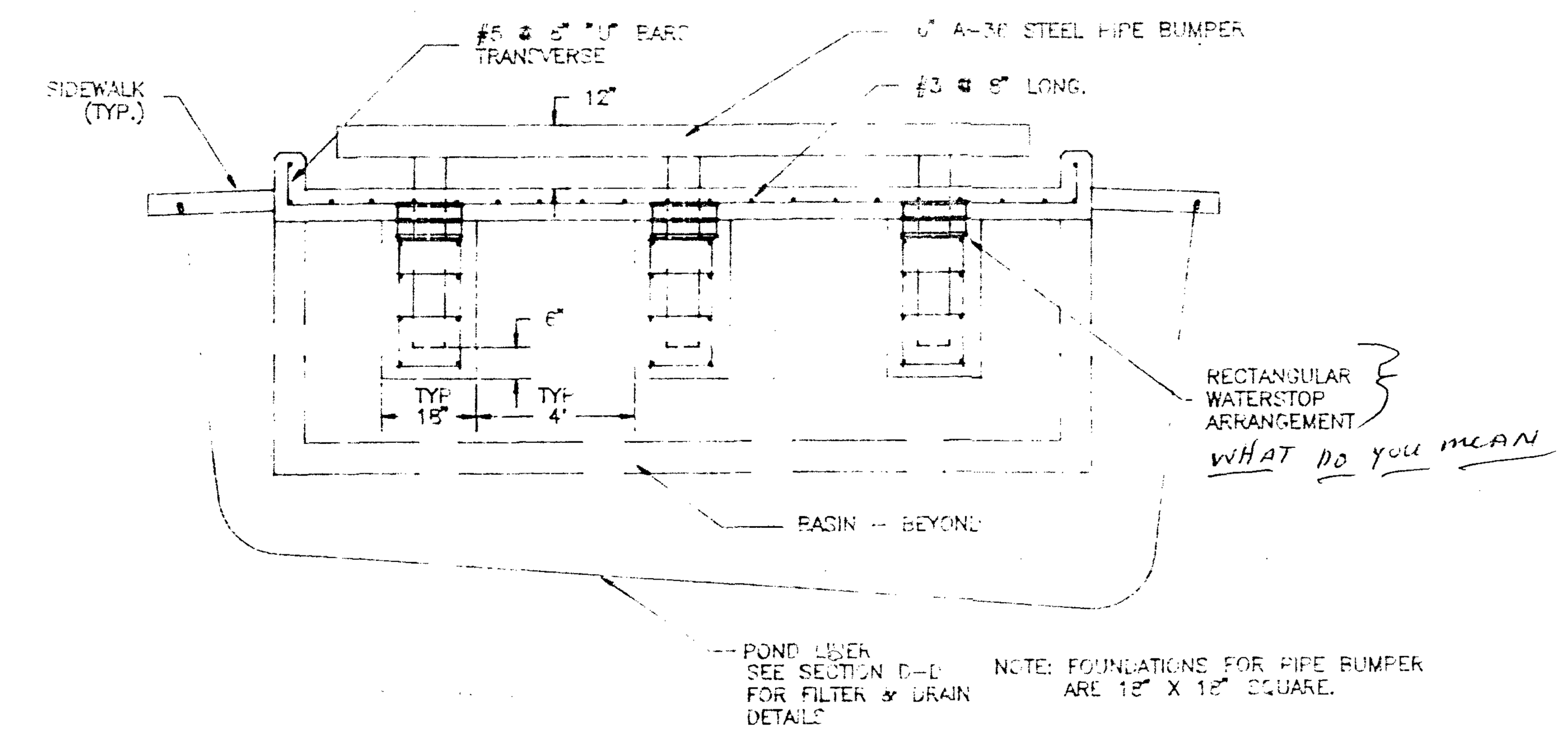
KARST DEPRESSION DEPOSITS

ka KARST-RELATED DEPOSITS — *Underground solution of limestone and gypsum produces caverns or smaller subsurface voids, and causes roof-rock collapse, forming closed karst depressions (sinkholes) at the surface, mantled with blocks of the roof rock. Widespread in San Andres Formation (subscript Psa) north of the Sacramento Mountains and on Chupadera Mesa. Sinks commonly 50 ft deep and 500 to 1,000 ft wide. Similar deposits composed of slumped gravel and alluvium along the Pecos River valley are attributed to solution of underlying gypsum or other salts. Slumped beds dip 1 to 5 degrees into the depression; may be overlain by undisturbed gravels. Thickness to 300 ft. Although these are distinctive features, extent and boundaries, largely derived from the 1/250,000 quadrangle maps, are approximate*



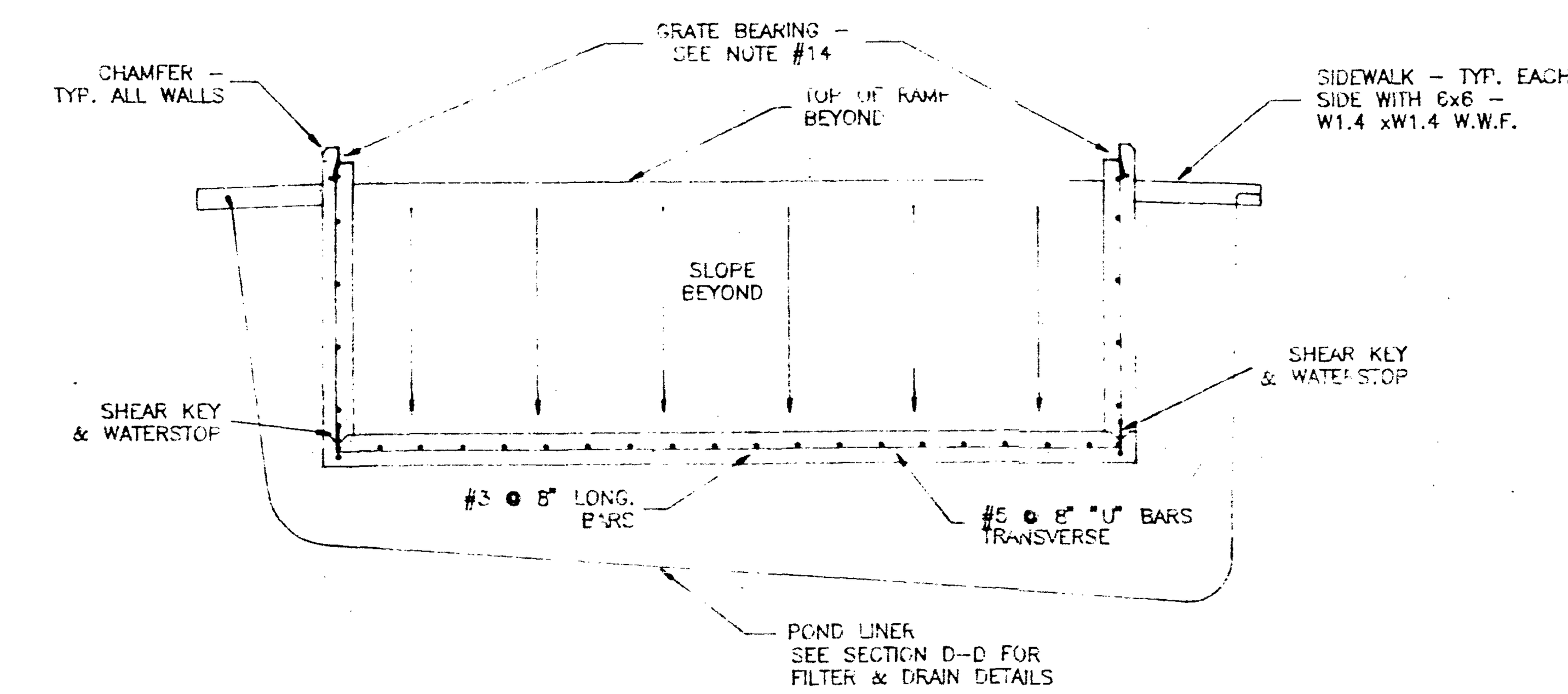
SECTION A-A

SCALE: 3/8" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

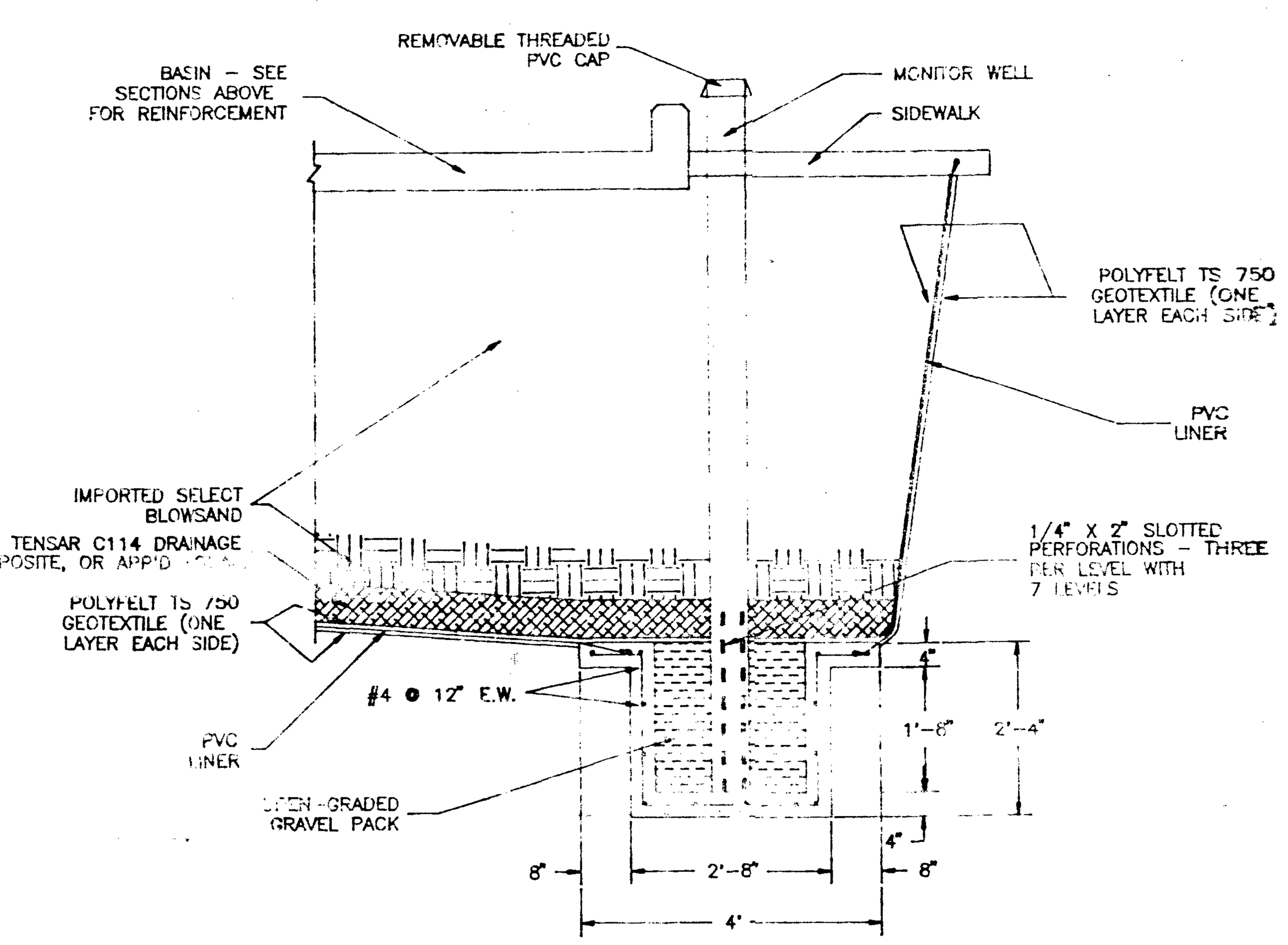


SECTION C-C

SCALE: 3/8" = 1'-0"

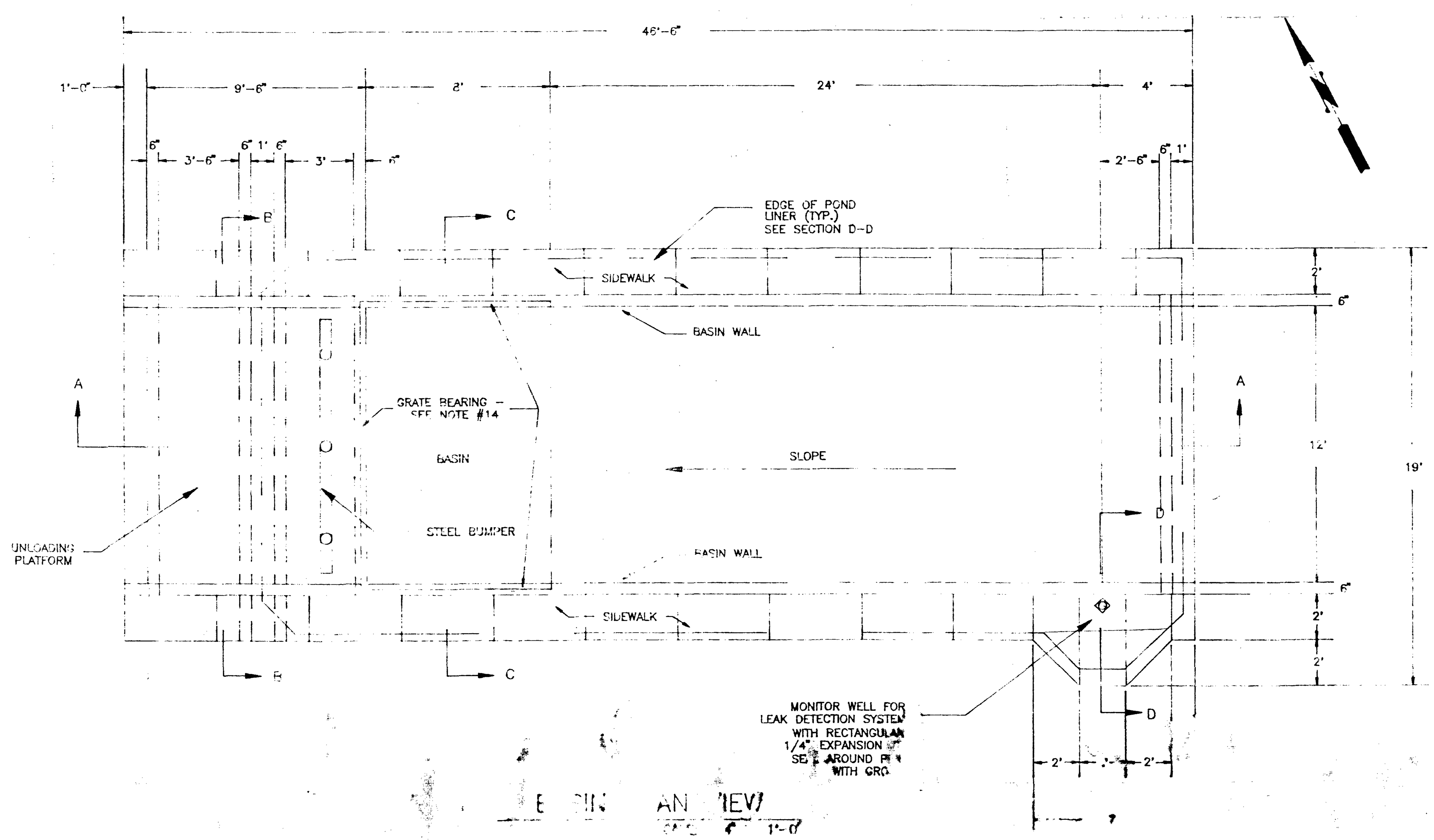
NOTES:

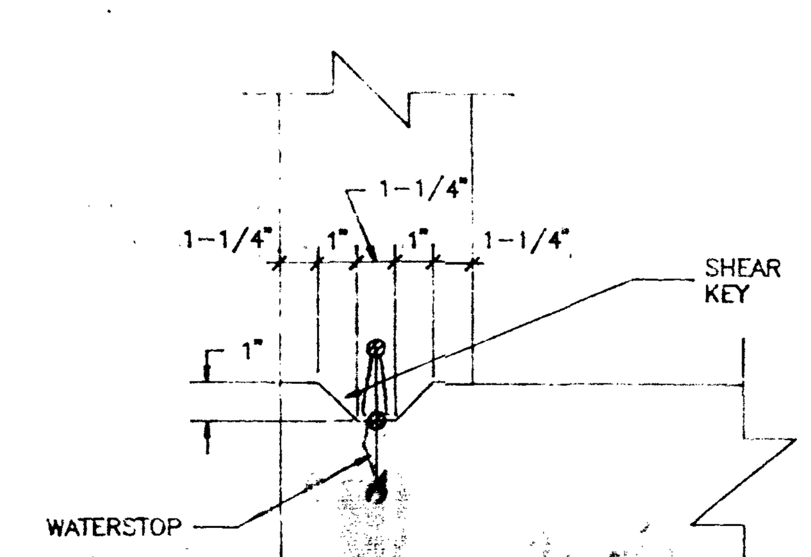
1. LINER SHALL BE 30 MIL OIL RESISTANT PVC.
2. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 6000 PSI MINIMUM. SLUMP SHALL BE 2" - 4".
3. MONITOR WELL SHALL BE 4" SCHED. 40 PVC PIPE.
4. DRAIN MATERIAL SHALL BE TENSAR C114 DRAINAGE COMPOSITE AS MANUFACTURED BY CONTECH CONSTRUCTION PRODUCTS, OR APPROVED EQUAL.
5. MINIMUM LINER SLOPE SHALL BE 7.5% TO MONITOR WELL.
6. ~~ALL~~ LINER SHALL BE ANCHORED INTO CONCRETE ON ALL TOP EDGES WITH 4" EMBEDMENT WRAPPED AROUND #4 BAR.
7. ALL WATERSTOPS SHALL BE RB 316-6 PVC AS MANUFACTURED BY THE BURKE COMPANY, OR APPROVED EQUAL.
8. ALL CONCRETE EXPOSED TO WASH RUNOFF SHALL BE COATED WITH AN EPOXY-BASED SEALER TO BE SPECIFIED BY UNICHEM INT'L.
9. ALL CONCRETE SHALL BE FINISHED TO A FLOAT FINISH.
10. ALL SOILS UNDER LINER, BASIN AND SIDEWALK SHALL BE 95% OF STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D-698.
11. ALL MATERIAL BETWEEN POND LINER AND BASIN SHALL BE IMPORTED SELECT BLOWSAND MATERIAL WITH A PLASTICITY INDEX OF LESS THAN 15.
12. GRAVEL PACK IN MONITOR WELL SUMP SHALL BE 3/8" RIVER ROCK GRAVEL WITH NO SHARP EDGES.
13. SITEWORK SHALL BE AS PER SITE INSTRUCTIONS OF UNICHEM PERSONNEL AND SHALL BE DONE SO AS TO DRAIN STORMWATER RUNOFF AWAY FROM THE BASIN ON ALL SIDES.
14. GRATE BEARING SHALL BE 3"X3"X3/16" ANGLES WITH 3"X1/2" STUDS AT 4" O.C. PRIMED AND PAINTED BLACK WITH CHEMICAL-RESISTANT EPOXY.
15. CHAMFERS SHALL BE ADDED TO ALL WALLS AND SHALL BE 1"X1".



SECTION D-D

SCALE: 1/2" = 1'-0"





22,880

William H. Briniostool
Salado Brine Well #2
Discharge Plan BW-25
2-11-94

3-14-90

2-11-94

#1 Salado Brine Well #2
William H. Brinninstool
Discharge Plan BW-25

2-11-94

#2 Salado Brine Well #2
William # Brinkhoff
Discharge Plan BW-25

2-11-94

#4 Salado Brine Well #2
William H. Brinkhoff
Discharge Plan BW-25

2-11-94

#3 Salado Brine Well #2
William H. Brinkhoff
Discharge Plan BW-25

NMOCD ID # 832236   BY: W Price # 1
Date/Time: Feb 19, 1998   2:30 pm
Site/Location: XL Salado Brine ST BW-25
Subject: Site Inspection

Looking South, Wash out pit & new storage drain pad & curd.

NMOCD ID # 832236 BY: W Price # 2
Date/Time: Feb 19, 1998 2:30 pm
Site/Location: XL Salado Brine ST BW-25
Subject: Site Inspection

Looking North, show new underground manhole cover for value between wash-out pit and new waste tank.

<>NO. 38

N-1 SHHU 8248

<No. 4> 005

NMOCD ID # 832236 BY: W Price # 3
Date/Time: Feb 19, 1998 2:30 pm
Site/Location: XL Salado Brine ST BW-25
Subject: Site Inspection
Looking West, shows new waste tank.

21FU 0224

<NO.5>007

NMOCD ID # 832236 BY: W Price # 4
Date/Time: Feb 19, 1998 2:30 pm
Site/Location: XL Salado Brine ST BW-25
Subject: Site Inspection

Looking West, shows new waste tank with 30 mil liner and berms.

13AU 624

NMOCD ID # 832236   BY: W Price # 5
Date/Time: Feb 19, 1998   2:30 pm
Site/Location: XL Salado Brine ST BW-25
Subject: Site Inspection
Looking East. Brine St in background.

<No. 6>08

N-06AU 024

NMOCD ID # 832236 BY: W Price # 6
Date/Time: Feb 19, 1998 2:30 pm
Site/Location: XL Salado Brine ST BW-25
Subject: Site Inspection

Looking N East. Foreground shows drain pad & curd with waste.

<No. 8>01

NMOCD ID # 832236 BY: W Price # 7
Date/Time: Feb 19, 1998 2:30 pm
Site/Location: XL Salado Brine ST BW-25
Subject: Site Inspection

Looking NE. KCL loading station, no containment.

N-1001 02

<No. 93>

NMOCD ID # 832236 BY: W Price # 8
Date/Time: Feb 19, 1998 3:30 pm
Site/Location: J.L.N.M. Const Co yard
Subject: Site Inspection-Jal NM

Looking East. Picture shows area where waste from xl Salado Brine st. wash-out pit was discharged. Area now clean, waste to Parabo.

-N- 09AU 024

NMOCD ID # 832236   BY: W Price # 9
Date/Time: Feb 19, 1998   3:30 pm
Site/Location: J.L.N.M. Const Co yard
Subject: Site Inspection-Jal NM
Looking West. JLNM yard in Jal, NM hwy 128 W. jal nm

SALado BRine
14-25-37
9-19-96

<No. 2>012 35+01 N1ANN-22AU 178