

BW - 4

**GENERAL  
CORRESPONDENCE**

**YEAR(S):**

2006 → 1989

**Price, Wayne, EMNRD**

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**From:** Price, Wayne, EMNRD  
**Sent:** Wednesday, July 26, 2006 8:21 AM  
**To:** 'gandy2@leaco.net'  
**Cc:** seay04@leaco.net  
**Subject:** Brine well Permit ~~BW-04~~ Wasserhund has expired  
**Contacts:** Larry Gandy  
**Attachments:** DP\_BEF.rtf

Dear Larry and Eddie:

Please complete the attached form and submit with a \$100 filing fee made out to the Water Quality Management fund. In addition, please make arrangements to pressure test your brine well and cavern using during the week of August 14, 2006. The test pressure shall be 300 psig held for 4 hours. A pressure gauge and recently calibrated pressure recording chart shall be provided on the casing. The pressure recorder shall be calibrated for a maximum range of 500 psig and a 500 psig chart shall be used. The clock on the recorder shall be set at 8 or 12 hours.

Please submit the brine well renewal application within 10 days and notify this office 3 working days in advance of the test so OCD may witness.

7/26/2006

## Price, Wayne

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**From:** Price, Wayne  
**Sent:** Monday, September 13, 2004 1:54 PM  
**To:** Larry Gandy (E-mail); Mike Griffin (E-mail)  
**Cc:** Sheeley, Paul  
**Subject:** Gandy Brine Station BW-04

Dear Mr. Gandy:

The OCD is in receipt of the Eidson Station Remediation Project work plan submitted by Whole Earth Environmental and the E-mails dated August 24 and September 06, 2004. OCD has reviewed the plan and hereby approves with the following conditions:

1. The New Tank facility and loading areas planned shall be constructed with secondary containment approved by OCD. Please submit plans and drawings by November 15, 2004.
2. There shall be one additional monitor well installed in close proximity to the existing brine well pond to be located on the SE corner of the pond. The well shall be constructed with a minimum of 20 foot of screen with a 5 feet above the water table. The well shall be constructed, developed and purged per OCD standards previously approved. This well shall be installed and sampled before November 15, 2004. During construction, the well shall be logged, split spoon samples shall be collected every 10 feet. Soil samples shall be analyzed for Chlorides.
3. Gandy shall continue its commitment of cleaning up all visual salt contaminated soils and reporting leaks and spills. Also Gandy shall abide by all discharge plan requirements.
4. A brine pond closure plan shall be submitted by November 15, 2004 for OCD approval.
5. Please submit all of the information above by November 15, 2004. Include the water analysis results for the following. The water supply wells, the two monitor wells, and the down-gradient Texaco well. The analysis shall be total general chemistry. Please provide isopleths maps of any contamination, water level information and groundwater flow gradient maps.
6. Once OCD has received all of the above information then OCD will continue the evaluation of the model.

Please be advised that NMOCD approval of this plan does not relieve (Gandy Corp.) 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 (Gandy Corp) 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

**Price, Wayne**

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**From:** Larry D. Gandy [gandy2@leaco.net]  
**Sent:** Monday, September 06, 2004 12:48 PM  
**To:** Price, Wayne  
**Cc:** dgandy@pvtnetworks.com  
**Subject:** Eidson Brine Station

Dear Mr. Price:

RE; Inspection

As per the facility inspection dated 8-19-04, Gandy Corp. removed all surface and visual brine contaminated soil to the GMI facility on 8-25-04.

Gandy Corp. is looking forward to approval of the submitted work plan to continue the clean up of this facility and the approved tank storage area to prevent these situations.

Sincerely,

Larry Gandy  
505-398-4960

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This email has been scanned by the MessageLabs Email Security System.  
For more information please visit <http://www.messagelabs.com/email>

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9/13/2004

**Price, Wayne**

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**From:** Mike Griffin [whearth@msn.com]  
**Sent:** Tuesday, August 24, 2004 3:39 PM  
**To:** Wayne Price  
**Cc:** Larry Gandy  
**Subject:** Eidson Station

Good Afternoon, Wayne:

I want to first of all thank you for your informal guidance and candid assessment of our remediation protocol for the Eidson spill. You are correct in stating that the site has a long and complex history making the development of a plume model extremely problematic.

After our telecon, I spoke to both Larry and Dale Gandy about the plume modeling dilemma. Like you, they are anxious to move forward on the area adjacent to the bar ditch and agree to your suggestion that they excavate the soils within the primary impact area to a minimum depth of 3' and then cover the excavation with compacted soils. (In our protocol it is described as the area around bore hole A-4).

They have additionally agreed to begin the closure of the pit. As you know, the entire surface of the pit is presently covered in several feet of mineral salt. It is our intent to liquify these solids and send them to commercial disposal. Larry is working on the equipment and techniques necessary to achieve the intended result. Rather than delay action on the spill site, I would like to propose that we submit a separate closure protocol for the pit. We should be able to have it to you within 45 days.

I was a bit startled when I received your report & photos this afternoon. When we were at the site some months ago no such staining was present. Immediately after I received your report I spoke to Larry & was advised that what you saw was yet another NEW spill that just occurred within the past few days. Larry is writing up a formal report to send to your Hobbs office and is working right now to remove all surface stains.

Mike Griffin  
Whole Earth Environmental, Inc.  
Phone: 281.394.2050  
FAX: 281.394.2051

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This email has been scanned by the MessageLabs Email Security System.  
For more information please visit <http://www.messagelabs.com/email>

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8/24/2004

## Price, Wayne

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**From:** Price, Wayne  
**Sent:** Tuesday, August 24, 2004 2:11 PM  
**To:** Larry Gandy (E-mail)  
**Cc:** Mike Griffin (E-mail); Williams, Chris; Sheeley, Paul; Johnson, Larry  
**Subject:** Eidson Brine station BW004 Violation of Permit Conditions

Dear Mr. Gandy:

OCD is in the process of evaluating the work plan submitted by Whole Earth Environmental. OCD anticipates to have that review completed in 1-2 weeks. In the mean time OCD is hereby ordering you to continue the clean-up of all visual contaminated soil at this site. Please find enclosed a copy of my site visit on Aug 19, 2004. Please provide a progress report in 10 days.



Copy of INsp report  
8\_19\_04Doc...



DCP02206.JPG



DCP02207.JPG

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



# Environmental Facility Inspection



Facility Name **WASSERHUND EIDSON BRINE**

Time Out **16:45**

Time In **17:00** Hrs

Inspector **Wayne Price**

DI Mod 8/24/2004

Purpose **Status Check**

Inspection Date **08/19/2004**

Inspect No. **SLWP0423749546**

Type **Field Inspection**

## Violations / Documentation

## Additional Violation Notes

List Violations or  
Indicate  
Compliance

### Specific Violation

Contamination observed on ground surface

Operator shall remove all of  
the visual contaminated  
soils within 10 days.

Documentation Acquired:

☐ Samples

☐ Statements

☐ Sketch

☐ Video

☒ Photos

## Compliance Items (Checked Items Denote Non-Compliance)

Write Compliance Based on this Inspection

☐ Drums

☐ Process

☐ AG Tanks

☐ AG Saddle Tk

☐ Labeling

☐ Tanks/Sumps

☐ Permits

☐ UG Lines

☐ WD Practice

☐ Class V

☐ Housekeepin

☐ Spill Rpt

☐ Potential ENV

☐ Wtr Wells

Describe  
Remedial Action  
Required

1. Brine water has been spilled on the ground. This is a permit violation.

Use [SHIFT] + [F2] to Expand any Notes or Comment Field







## Price, Wayne

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**From:** Price, Wayne  
**Sent:** Monday, August 02, 2004 11:24 AM  
**To:** Larry Gandy (E-mail)  
**Cc:** Sheeley, Paul; Williams, Chris  
**Subject:** Wasserhund Brine station BW-04

Dear Mr. Gandy:

Please find enclosed photos taken by the OCD District office. It appears that the temporary tanks being used has no secondary containment and brine water is being released to the ground surface. Please note all leaks and spills shall be reported pursuant to you the current Discharge Plan. Reporting and perform remedial actions is required pursuant to the Discharge Plan BW-04. OCD does understand that Gandy Corp. is in the process of modifying your permit to eliminate the brine storage pond and go to tank systems. Please note these new tank systems shall be installed on an impermeable device with berms. WE are in the process of reviewing your discharge plan modification and investigation/remediation plan. In the mean time, OCD will allow temporary storage as long as the brine water is not allowed to be released to the surface. Please remove the visual salt contaminated salt from the surface near the temporary tanks within 10 days and dispose at an approved OCD site.



Wasserhaund pix  
7-20-04.rtf

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

**Lori Wrotenbery**

Director

**Oil Conservation Division**

February 20, 2004

**CERTIFIED MAIL**

**RETURN RECEIPT NO. 7923 4382**

Larry Gandy, Vice President  
Gandy Corporation  
P.O. Box 827  
Tatum, New Mexico, 88267

Subject: Compliance with Permit Operating Conditions

Dear Mr. Gandy:

The groundwater discharge plan for the Eidson Brine Station Well BW-004 operated by Gandy Corporation located in SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico was approved under the conditions contained in the permit. The OCD district office has noted that it appears that some of these conditions are not being adhered to and as a result groundwater may have been impacted. Please find enclosed photos taken at the site and a water analysis from a nearby fresh water well. The water in this well exceeds the New Mexico groundwater standards for chlorides.

Please submit for OCD approval, a plan to stop all releases of salt water, repair the leaks in the brine pond liner system, and a vadose and groundwater zone investigation plan by March 31, 2004.

If you have any questions please do not hesitate to contact me at 505-476-3487 or e-mail [WPRICE@state.nm.us](mailto:WPRICE@state.nm.us).

Sincerely,

Wayne Price-Pet. Engr. Spec.

cc: OCD Hobbs Office

Attachments-2



Water well located SE of Brine Station.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

Joanna Prukop  
Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

FAX

TO:

Wyal

FROM:

Paul Sheeley

Energy Minerals and Natural Resources Department,  
Oil Conservation Division

RE:

Well Sample - Texaco (Near Wassenbunel)

DATE:

9-12-03

Note:

 $[Cl^-] = 424$ 

WQCC mg/L

250

 $[Fe^{+2}] = 266$ 

1.0

 $[Mn^{+2}] = 5.8$ 

0.2

Paul S.

3

Pages (Including Transmittal)



Analytical Laboratory Report for:  
**ChevronTexaco**

**BJ** **BJ Matteson**  
**Chemical Services**  
UNICHEM Representative: John Offutt

## Production Water Analysis

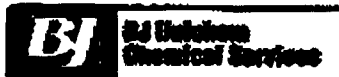
Listed below please find water analysis report from: CVU, #4 WSW

Lab Test No: 2003136460      Sample Date: 08/22/2003  
Specific Gravity: 1.002  
TDS: 1223  
pH: 8.65

Cations:	mg/L	as:
Calcium	129	(Ca <sup>++</sup> )
Magnesium	10.45	(Mg <sup>++</sup> )
Sodium	113	(Na <sup>+</sup> )
Iron	265.67	(Fe <sup>++</sup> )
Barium	0.05	(Ba <sup>++</sup> )
Strontium	1.28	(Sr <sup>++</sup> )
Manganese	5.84	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	220	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	54	(SO <sub>4</sub> <sup>-2</sup> )
Chloride	424	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide		(H <sub>2</sub> S)

ChevronTexaco

Lab Test No: 2003135450



### DownHole SAT<sup>™</sup> Scale Prediction @ 100 deg. F

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO <sub>3</sub> )	.356	-.0908
Aragonite (CaCO <sub>3</sub> )	.302	-.116
Witherite (BaCO <sub>3</sub> )	< 0.001	-6.71
Strontianite (SrCO <sub>3</sub> )	.00888	-2.12
Magnesite (MgCO <sub>3</sub> )	.0263	-1.39
Anhydrite (CaSO <sub>4</sub> )	.0183	-303.65
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	.0225	-302.39
Baite (BaSO <sub>4</sub> )	.243	-.147
Celestite (SrSO <sub>4</sub> )	.00378	-86.62
Silica (SiO <sub>2</sub> )	0	-57.01
Brucite (Mg(OH) <sub>2</sub> )	< 0.001	-1.92
Magnesium silicate	0	-84.83
Siderite (FeCO <sub>3</sub> )	1824	.0582
Halite (NaCl)	< 0.001	-153194
Thenardite (Na <sub>2</sub> SO <sub>4</sub> )	< 0.001	-37206
Iron sulfide (FeS)	0	> 0.001

#### Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation Index of 3 is 10 times more saturated than a value of 2.

The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) infinity to positive (precipitating) infinity. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

## Price, Wayne

---

**From:** Sheeley, Paul  
**Sent:** Wednesday, July 16, 2003 2:53 PM  
**To:** Price, Wayne  
**Subject:** RE: Wasserhund- Eidson Brine St. (Gandy)

Thanks Wayne. The photos don't do it justice.

-----Original Message-----

**From:** Price, Wayne  
**Sent:** Wednesday, July 16, 2003 1:12 PM  
**To:** Ford, Jack  
**Cc:** Sheeley, Paul  
**Subject:** RE: Wasserhund- Eidson Brine St. (Gandy)

Paul thanks for the info. This is a permitted brine station BW-04. I am really surprised to see this. This has been a good operation. I am now checking into why we are having these problems. I have given Gandy Corp 10 days to respond.

-----Original Message-----

**From:** Ford, Jack  
**Sent:** Wednesday, July 16, 2003 10:16 AM  
**To:** Price, Wayne  
**Subject:** FW: Wasserhund- Eidson Brine St. (Gandy)

here are the pictures from Paul

-----Original Message-----

**From:** Sheeley, Paul  
**Sent:** Wednesday, July 16, 2003 8:38 AM  
**To:** Ford, Jack; Anderson, Roger  
**Cc:** Williams, Chris; Johnson, Larry  
**Subject:** Wasserhund- Eidson Brine St. (Gandy)

<< File: Picture\_2271.JPG >> << File: Picture\_2272.JPG >> << File: Picture\_2273.JPG >> << File: Picture\_2274.JPG >> << File: Picture\_2275.JPG >> << File: Picture\_2276.JPG >> << File: Picture\_2277.JPG >>  
Jack,

This brine station just north of Buckey needs remediated. They have Major spills regularly (>200bbls) and do not report. I believe that the liner in the pond is leaking. I believe there is 3-4 feet of consistent solid salt on the bottom of the pond. The pond has recently failed. The overflow prevention is insufficient. The sump needs to be leak checked. **The drivers need alarm clocks.** I called Larry Gandy to give him the opportunity to do the right thing. They just covered it up. I will bet that the total mass of Chloride released at this location is in the top ten in Lea county. And, maybe number one Chloride polluter at present. Those little white spots in the pix are salt granules...like you purchase for sidewalks and homemade ice cream. I also picked up a 20-30lb chunk of salt on the ground. Ground water is likely 50-100Ft.

I suggest that Gandy needs a discharge plan or needs to follow the one they may have.

I want to shut them down immediately and force them to drill 3 monitor wells, remediate and rebuild the pond and the loading dock/sump.

Thanks,  
Paul S

*PICTURES IN RBAMS!  
MAYBE?*

## Price, Wayne

---

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Picture\_2271.JPG



Picture\_2272.JPG



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Picture\_2274.JPG



Picture\_2275.JPG



Picture\_2276.JPG



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I suggest that Gandy needs a discharge plan or needs to follow the one they may have.

I want to shut them down immediately and force them to drill 3 monitor wells, remediate and rebuild the pond and the loading dock/sump.

Thanks,  
Paul S

30-025-26883-00-00

Submit 3 Copies To Appropriate District  
Office

District I

1625 N. French Dr., Hobbs, NM 88240

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 and Natural ResourcesOIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505Form C-103  
Revised March 25, 1999

WELL API NO.

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name:

Eidson Brine Station  
BW-004

8. Well No.

1

9. Pool name or Wildcat

## 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.)

1. Type of Well:

Oil Well ☐ Gas Well ☐ Other Brine Well

2. Name of Operator

Wasserhund, Inc.

3. Address of Operator

P.O. Box 827, Tatum, NM 88267

4. Well Location

Unit Letter M : 567.4 feet from the South line and 161.7 feet from the West lineSection 31 Township 16 Range 35 NMPM Lea County

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

## 11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐ CHANGE PLANS ☐PULL OR ALTER CASING ☐ MULTIPLE  
COMPLETION ☐OTHER: ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ PLUG ANDABANDONMENT ☐CASING TEST AND  
CEMENT JOB ☐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. For Multiple Completions: Attach wellbore diagram of proposed completion  
or recompilation.

Pulled tubing, ran in hole with scraper, cleaned casing.  
 ran in hole with packer at 1845, pressured upon casing to 420  
 pounds for 30 minutes, casing test witnessed by Larry Johnson.  
 Ran 1793 feet of DSS 2 7/8 tubing and ran 683 feet of j-55  
 tubing, put back at 2476 feet and put back into production  
 on August 31, 2001.

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

SIGNATURE Donny Collins TITLE Bookkeeper DATE 9/07/01Type or print name Donny Collins

Telephone No. (505) 398-49 60

(This space for State use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of approval, if any:



**THE REPRODUCTION OF  
THE  
FOLLOWING  
DOCUMENT ( S )  
CANNOT BE IMPROVED  
DUE TO  
THE CONDITION OF  
THE ORIGINAL**

Submit 3 Copies To Appropriate District Office

## District I

1625 N. Elmore Dr., Hobbs, NM 88240

## District II

811 South East, 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 and Natural Resources

## OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, NM 87505

Form C-103

Revised March 25, 1999

<b>SUNDRY NOTICES AND REPORT OF WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO PLUG OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (C-101) FOR SUCH PROPOSALS.)		<b>WELL API NO.</b>
<b>1. Type of Well.</b> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Brine Well <input type="checkbox"/>		<b>5. Indicate Type of Lease</b> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
<b>2. Name of Operator</b> Wasserhand, Inc.		<b>6. State Oil &amp; Gas Lease No.</b>
<b>3. Address of Operator</b> P.O. Box 827, Tatum, NM 88267		<b>7. Lease Name or Unit Agreement Name:</b> Eidson Brine Station BW-0004
<b>4. Well Location</b> Unit Letter M 567.4 feet from the South line and 161.7 feet from the West line Section 31 Township 16 Range 35 NMPM Lea County		<b>8. Well No.</b> 1
<b>10. Elevation (Show whether DR, RKB, RT, GR, etc.)</b>		<b>9. Pool name or Wildcat</b>

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

COMPLETION ☐ MULTIPLE COMPLETION ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

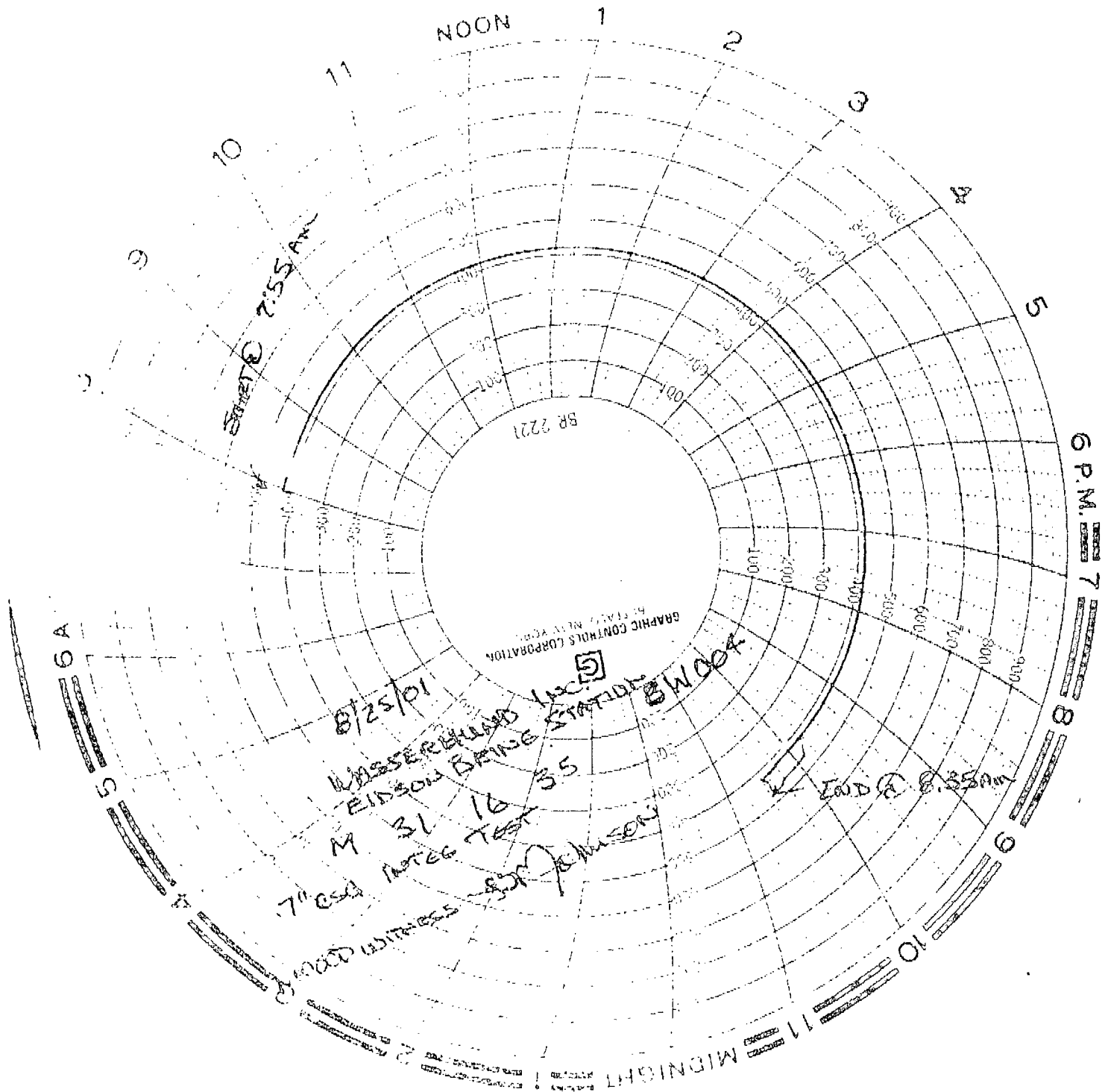
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 ran in hole with packer at 1845, pressured upon casing to 420  
 pounds for 30 minutes, casing test witnessed by Larry Johnson.  
 Ran 1793 feet of LSS 2 7/8 tubing and ran 683 feet of 3-55  
 tubing, put back at 2476 feet and put back into production  
 on August 31, 2001.

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

SIGNATURE [Signature] TITLE Bookkeeper DATE 9/07/01

Type or print name Doris Hollins Telephone No. (505) 398-4960  
 (This space for State use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 Conditions of approval, if any:





Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South East, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

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2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, NM 87505

Form C-103

Revised March 23, 1999

WELL API NO.

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

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Ridson Brine Station  
BW-004

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9. Pool name or Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

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Oil Well ☐ Gas Well ☐ Other Brine Well

2. Name of Operator

Wassermann, Inc.

3. Address of Operator

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

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

REPAIR WORK ☒ PLUG AND ABANDON ☐

ABANDON ☐ CHANGE PLANS ☐

RE CASING ☐ MULTIPLE COMPLETION ☐

☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

Proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Hole in Tubing

Will Pull and Replace Tubing

I certify that the foregoing is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE Bookkeeper DATE 8/14/01

Type or print name Danny Co

Telephone No. (505) 398-4960

(This space for State use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of approval, if any.

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 8/20/01  
or cash received on \_\_\_\_\_ in the amount of \$ 1700<sup>00</sup>  
from GANDY CORPORATION  
for EIDSON BRINE ST. BW-004

Submitted by: WAYNE PRICE Data: 8/20/01  
Submitted to ASD by: [Signature] Data: 8/20/01  
Received in ASD by: \_\_\_\_\_ Data: \_\_\_\_\_

Filing Fee \_\_\_\_\_ New Facility \_\_\_\_\_ Renewal ☒  
Modification \_\_\_\_\_ Other \_\_\_\_\_

Organization Code 521.07 Applicable FY 2002

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment \_\_\_\_\_



GANDY CORPORATION  
P. O. BOX 827 PH. 398-4960  
TATUM, NM 88267

**\$1,700.00**

DATE 8-10-01 95-219-1070

PAY  
TO THE ORDER  
OF

DOLLARS \$ \*1700.00

Water Quality Management Fund  
C/O Oil Conservation Division  
1220 South Saint Frances Drive  
Santa Fe, NM 87505

Payment of Discharge Plan  
Eidson Brine Station BW 004

VOID AFTER 90 DAYS

Alta Gandy

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
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 and Natural Resources

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-103  
Revised March 25, 1999

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		<b>WELL API NO.</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Brine Well		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Wasserhund, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 827, Tatum, NM 88267		7. Lease Name or Unit Agreement Name: Eidson Brine Station BW-004
4. Well Location Unit Letter M : 567.4 feet from the South line and 161.7 feet from the West line Section 31 Township 16 Range 35 NMPM Lea County		8. Well No. 1
10. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. Pool name or Wildcat

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data			
<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Hole in Tubing  
Will Pull and Replace Tubing

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

SIGNATURE Donny Collins TITLE Bookkeeper DATE 8/14/01

Type or print name Donny Collins Telephone No. (505) 398-4960  
(This space for State use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Conditions of approval, if any:

THE SANTA FE  
**NEW MEXICAN**

Founded 1849

NM OIL CONSERVATION DIVISION  
ATTN: WAYNE PRICE  
1220 S. ST. FRANCIS DRIVE  
SANTA FE, NM 87505

AD NUMBER: 211290      ACCOUNT: 56689  
LEGAL NO: 69498      P.O.#: 01199000033  
299 LINES      1 time(s) at \$ 131.80  
AFFIDAVITS:      5.25  
TAX:      8.57  
TOTAL:      145.62

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

COUNTY OF SANTA FE

I, MM Weideman 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 #69498 a copy of which is hereto attached was published in said newspaper 1 day(s) between 06/13/2001 and 06/13/2001 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 13 day of June, 2001 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/s/

MM Weideman

LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this  
13 day of June A.D., 2001

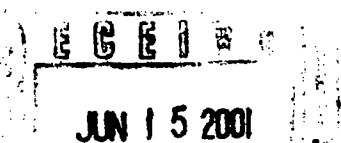
Notary

Laura E. Harding

Commission Expires

11/23/03

*Approved Wayne Price  
7/06/01*



www.sfnewmexican.com

NOTICE OF  
PUBLICATION

STATE OF NEW MEXICO  
ENERGY, MINERALS  
AND NATURAL RE-  
SOURCE DEPARTMENT  
OIL CONSERVATION  
DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications 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-004) - Gandy Corporation., Larry Gandy, Vice-President, P.O. Box 827, Tatum, New Mexico, 88267 has submitted an application for renewal of its previously approved discharge plan for its brine well facility. The brine extraction facility is located in the SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 313,000 mg/l. Groundwater most likely to be affected by any accidental discharge is at a depth of approximately 120 feet and has a total dissolved solids content of approximately 325 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-006) - I&W Incorporated, George Parchman, P.O. Box 98, Loco Hills, New Mexico 88255, has submitted a discharge plan renewal application for their Carlsbad Eugene Brine Extraction Facility located in the SW/4 SW/4 of Section 17, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico. Fresh water is injected down annulus of the No. 1 well to an approximate depth of 550 feet and brine is produced through the tubing. The brine has an average total dissolved solids content of 300,000 mg/l. Groundwater most likely to be affected by any accidental discharge is at a depth of 50 feet with a total dissolved solids concentration of about 1,000 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(BW-028) - Gold Star SWD Ltd. Co., Royce Crowell, Manager/ Partner, P.O. Box 1480, Eunice, New Mexico, 88231 has submitted an application for their proposed Eunice Brine Station, located in the NW/4 NW/4 of Section 15, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water will be injected to an approximate depth of 2,000 feet. Approximately 1,000 barrels per day of brine water will be extracted with an average total dissolved solids concentration of 300,000 mg/l. The brine water will be stored in three 500 barrel aboveground closed top fiberglass tanks. Ground water most likely to be affected by any accidental discharge is at a depth of approximately 80 feet and has a total dissolved solids content of approximately 1,200 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain 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 4:00 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the

LEGALS

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 7th day of June 2001.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

LORI WROTENBERY, Director  
Legal #69498  
Pub. June 13, 2001

*AMROZON OK*  
*Wagner*  
*7/6/01*

**AFFIDAVIT OF PUBLICATION**

State of New Mexico,  
County of Lea.

**I, KATHI BEARDEN**

**Publisher**

of the Hobbs News-Sun, a  
newspaper published at  
Hobbs, New Mexico, do solemnly  
swear that the clipping attached  
hereto was published once a  
week in the regular and entire  
issue of said paper, and not a  
supplement thereof for a period.

of 1

                     weeks.

Beginning with the issue dated

June 17 2001

and ending with the issue dated

June 17 2001

Kathi Bearden

**Publisher**

Sworn and subscribed to before

me this 18th day of

June 2001

Jodi Benson

**Notary Public.**

My Commission expires  
October 18, 2004  
(Seal)

This newspaper is duly qualified  
to publish legal notices or adver-  
tisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937, and payment of fees for  
said publication has been made.

**LEGAL NOTICE**  
June 17, 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 Regula-  
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Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone  
(505) 476-3440:

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a total dissolved solids content of approximately 1,200 mg/l. The discharge plan address-  
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a.m. and 4:00 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  
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 deter-  
mines 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 pro-  
posed 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 7 Th. day of June 2001.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

LORI WROTENBERY, Director  
SEAL  
#18236

*Approved  
W. J. Benson 7/6/01*

01100060000 67500753  
State of New Mexico Oil &  
1220 S. St. Francis  
Santa Fe, NM 87505

**GANDY CORPORATION**

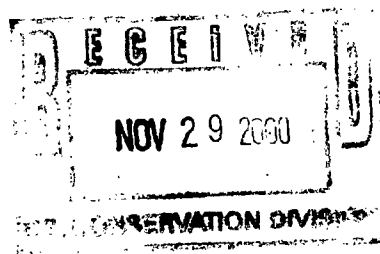
OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX -505-398-6887



November 27, 2000

Mr. Wayne Price  
New Mexico Oil & Gas Division  
2040 S. Pacheco  
Santa Fe, NM 88205

Dear Wayne:

When I sent in the original C-104 I left off quite a bit of information. Donna called me today and I have corrected all that was left off.

I have sent a corrected copy to Donna in the Hobbs office and am forwarding this copy to you.

I am sorry for this mistake.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rue Mauk". The signature is written in dark ink and is positioned below the word "Sincerely,".

Rue Mauk

District I  
1625 N. French Dr., Hobbs, NM 88240  
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

CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-104  
Revised June 1, 2000

Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Gandy Corporation P. O. Box 827 Tatum, NM 88267		OGRID Number 8426
		Reason for Filing Code/ Effective Date CH 10-01-2000
API Number 30-0 25-26888	Pool Name BSW;SALADO	Pool Code 96713
Property Code	Property Name EIDSON STATE	Well Number 1

II. Surface Location

UL or lot no. M	Section 31	Township 16-S	Range 35-E	Lot Idn	Feet from the	North/South Line South	Feet from the	East/West line West	County Lea
--------------------	---------------	------------------	---------------	---------	---------------	---------------------------	---------------	------------------------	---------------

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
Use Code	Producing Method Code	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description

V. Produced Water

POD	POD ULSTR Location and Description
-----	------------------------------------

Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations	DHC, MC
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement		

I. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
Choke Size	Oil	Water	Gas	AOF	Test Method

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: *Larry Gandy*  
Printed name: Larry Gandy  
Title: Vice-President  
Date: 11-14-00  
Phone: 505-398-4960

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

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

Previous Operator Signature

130851

Printed Name

J E Haseloff

Title

President

Date

11-14-00



**New Mexico Oil Conservation Division  
C-104 Instructions**

**IF THIS IS AN AMENDED REPORT, CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT**

Report all gas volumes at 15.025 PSIA at 60°.  
Report all oil volumes to the nearest whole barrel.

A request for allowable for a newly drilled or deepened well must be accompanied by a tabulation of the deviation tests conducted in accordance with Rule 111.

All sections of this form must be filled out for allowable requests on new and recompleted wells.

Fill out only sections I, II, III, IV, and the operator certifications for changes of operator, property name, well number, transporter, or other such changes.

A separate C-104 must be filed for each pool in a multiple completion.

Improperly filled out or incomplete forms may be returned to operators unapproved.

1. Operator's name and address
2. Operator's OGRID number. If you do not have one, it will be assigned and filled in by the District office.
3. Reason for filing code from the following table:  

NW	New Well
RC	Recompletion
CH	Change of Operator
AO	Add oil/condensate transporter
CO	Change oil/condensate transporter
AG	Add gas transporter
CG	Change gas transporter
RT	Request for test allowable (Include volume requested)

If for any other reason write that reason in this box.
4. The API number of this well.
5. The name of the pool for this completion.
6. The pool code for this pool.
7. The property code for this completion.
8. The property name (well name) for this completion.
9. The well number for this completion.
10. The surface location of this completion. NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD unit letter.
11. The bottom hole location of this completion.
12. Lease code from the following table:  

F	Federal
S	State
P	Fee
J	Jicarilla
N	Navajo
U	Ute Mountain Ute
I	Other Indian Tribe
13. The producing method code from the following table:  

F	Flowing
P	Pumping or other artificial lift
14. MM/DD/YY that this completion was first connected to a gas transporter.
15. The permit number from the District approved C-129 for this completion.
16. MM/DD/YY of the C-129 approval for this completion.
17. MM/DD/YY of the expiration of C-129 approval for this completion.
18. The gas or oil transporter's OGRID number.
19. Name and address of the transporter of the product.
20. The number assigned to the POD from which this product will be transported by this transporter. If this is a new well or recompletion and this POD has no number, the district office will assign a number and write it here.
21. Product code from the following table:  

O	Oil
G	Gas
22. The ULSTR location of this POD if it is different from the well completion location and a short description of the POD (Example: "Battery A", "Jones CPD", etc.)
23. The POD number of the storage from which water is moved from this property. If this is a new well or recompletion and this POD has no number, the district office will assign a number and write it here.
24. The ULSTR location of this POD if it is different from the well completion location and a short description of the POD (Example: "Battery A Water Tank", "Jones CPD Water Tank", etc.).
25. MO/DA/YR drilling commenced.
26. MO/DA/YR this completion was ready to produce.
27. Total vertical depth of the well.
28. Plugback vertical depth.
29. Top and bottom perforation in this completion or casing shoe and TD if openhole.
30. Write in 'DHC' if this completion is downhole commingled with another completion or 'MC' if there is more than one non-commingled completion in this well bore. Attach actual completed well bore diagram
31. Outside diameter of the casing and tubing.
32. Depth of casing and tubing. If a casing liner, show top and bottom.
33. Number of sacks of cement used per casing string.
- The following test data is for an oil well. It must be from a test conducted only after the total volume of load oil is recovered.
34. MM/DD/YY that new oil was first produced.
35. MM/DD/YY that gas was first produced into a pipeline.
36. MM/DD/YY that the following test was completed.
37. Length in hours of the test.
38. Flowing tubing pressure - oil wells  
Shut-in tubing pressure - gas wells
39. Flowing casing pressure - oil wells  
Shut-in casing pressure - gas wells
40. Diameter of the choke used in the test.
41. Barrels of oil produced during the test.
42. Barrels of water produced during the test.
43. MCF of gas produced during the test.
44. Gas well calculated absolute open flow in MCF/D.
45. The method used to test the well:  

F	Flowing
P	Pumping
S	Swabbing

If other method please write it in.
46. The signature, printed name, and title of the person authorized to make this report, the date this report was signed, and the telephone number to call for questions about this report.
47. The previous operator's name, the signature, printed name, and title of the previous operator's representative authorized to verify that the previous operator no longer operates this completion, and the date this report was signed by that person.

**GANDY CORPORATION**

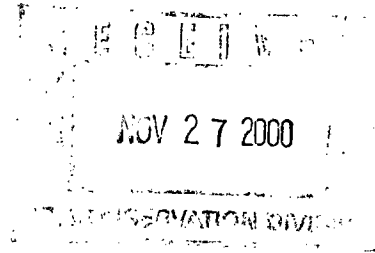
OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX -505-398-6887



November 21, 2000

Mr. Wayne Price  
New Mexico Oil & Gas Division  
2040 S. Pacheco  
Santa Fe, NM 88205

Dear Wayne:

We are enclosing a copy of the C-104 that we sent to Donna in the Hobbs office showing a change of ownership on the brine station.

Gandy Corporation has taken over the ownership and assumed the discharge plan for the station.

Sincerely,

*Larry Gandy*  
Larry Gandy

## **NOTICE OF PUBLICATION**

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

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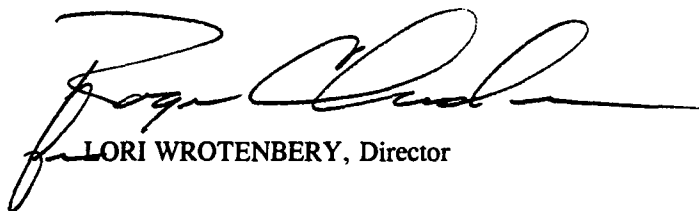
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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 7 Th. day of June 2001.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "Lori Wrotenbery", is written over the printed name.

LORI WROTENBERY, Director

SEAL

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### **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 applications 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-004) - Gandy Corporation., Larry Gandy, Vice-President, P.O. Box 827, Tatum, New Mexico, 88267 has submitted an application for renewal of its previously approved discharge plan for its brine well facility. The brine extraction facility is located in the SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 313,000 mg/l. Groundwater most likely to be affected by any accidental discharge is at a depth of approximately 120 feet and has a total dissolved solids content of approximately 325 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.**

**(BW-006) - I&W Incorporated, George Parchman, P.O. Box 98, Loco Hills, New Mexico 88255, has submitted a discharge plan renewal application for their Carlsbad Eugenie Brine Extraction Facility located in the SW/4 SW/4 of Section 17, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico. Fresh water is injected down annulus of the the No. 1 well to an approximate depth of 550 feet and brine is produced through the tubing. The brine has an average total dissolved solids content of 300,000 mg/l. Groundwater most likely to be affected by any accidental discharge is at a depth of 50 feet with a total dissolved solids concentration of about 1,000 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.**

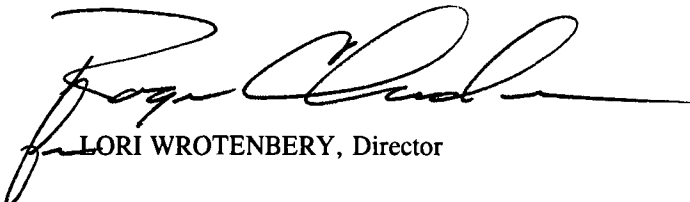
**(BW-028) - Gold Star SWD Ltd. Co., Royce Crowell, Manager/Partner, P.O. Box 1480, Eunice, New Mexico, 88231 has submitted an application for their proposed Eunice Brine Station, located in the NW/4 NW/4 of Section 15, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water will be injected to an approximate depth of 2,000 feet. Approximately 1,000 barrels per day of brine water will be extracted with an average total dissolved solids concentration of 300,000 mg/l. The brine water will be stored in three 500 barrel aboveground closed top fiberglass tanks. Ground water most likely to be affected by any accidental discharge is at a depth of approximately 80 feet and has a total dissolved solids content of approximately 1,200 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.**

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 7 Th. day of June 2001.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



LORI WROTENBERY, Director

S E A L

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No.                      dated 2/26/01  
or cash received on                      in the amount of \$ 100<sup>00</sup>  
from GANDY CORP  
for WASSERHUND BRINE ST. BW-004  
Submitted by: WAYNE PRICE (Facility Name) Date: 3/2/01 (DP No.)  
Submitted to ASD by:                      Date: 3/2/01  
Received in ASD by:                      Date:                       
Filing Fee ☒ New Facility ☐ Renewal ☐  
Modification ☐ Other ☐ (Signature)  
Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ☐ or Annual Increment ☐



GANDY CORPORATION  
P. O. BOX 827 PH. 398-4960  
TATUM, NM 88267

DATE 2-26-01

95-219-1070

PAY  
TO THE ORDER  
OF

DOLLARS \$ \*100.00

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

Renewal Permit for  
Wasserhund Brine Station

VOID AFTER 90 DAYS

Alta Gandy

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

**OIL CONSERVATION DIVISION**  
**2040 South Pacheco**  
**Santa Fe, NM 87505**

Submit to Appropriate District Office

5 Copies

☐ AMENDED REPORT**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address Gandy Corporation P. O. Box 827 Tatum, NM 88267		<sup>2</sup> OGRID Number 8426
		<sup>3</sup> Reason for Filing Code/ Effective Date CH 10-01-2000
<sup>4</sup> API Number 30 - 0	<sup>5</sup> Pool Name	<sup>6</sup> Pool Code
<sup>7</sup> Property Code	<sup>8</sup> Property Name	<sup>9</sup> Well Number

**II. <sup>10</sup> Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
	31	16-8	35-E		567	South	161	West	Lea

**<sup>11</sup> 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

<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date

**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description

**IV. Produced Water**

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description

**V. Well Completion Data**

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> TD	<sup>28</sup> PBTD	<sup>29</sup> Perforations	<sup>30</sup> DHC, MC

<sup>31</sup> Hole Size	<sup>32</sup> Casing & Tubing Size	<sup>33</sup> Depth Set	<sup>34</sup> Sacks Cement

**VI. Well Test Data**

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

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:

*Larry Gandy*

Printed name:

Larry Gandy

Title:

Vice-President

Date:

11-14-00

Phone:

505-398-4960

**OIL CONSERVATION DIVISION**

Approved by:

Title:

Approval Date:

\* If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

130851

Printed Name

J E Haseloff

Title

President

Date

11-14-00



New Mexico Oil Conservation Division  
C-104 Instructions

IF THIS IS AN AMENDED REPORT, CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT

Report all gas volumes at 15.025 PSIA at 60°.  
Report all oil volumes to the nearest whole barrel.

A request for allowable for a newly drilled or deepened well must be accompanied by a tabulation of the deviation tests conducted in accordance with Rule 111.

All sections of this form must be filled out for allowable requests on new and recompleted wells.

Fill out only sections I, II, III, IV, and the operator certifications for changes of operator, property name, well number, transporter, or other such changes.

A separate C-104 must be filed for each pool in a multiple completion.

Improperly filled out or incomplete forms may be returned to operators unapproved.

1. Operator's name and address
  2. Operator's OGRID number. If you do not have one, it will be assigned and filled in by the District office.
  3. Reason for filing code from the following table:  

NW	New Well
RC	Recompletion
CH	Change of Operator
AO	Add oil/condensate transporter
CO	Change oil/condensate transporter
AG	Add gas transporter
CG	Change gas transporter
RT	Request for test allowable (Include volume requested)

If for any other reason write that reason in this box.
  4. The API number of this well.
  5. The name of the pool for this completion.
  6. The pool code for this pool.
  7. The property code for this completion.
  8. The property name (well name) for this completion.
  9. The well number for this completion.
  10. The surface location of this completion. NOTE: If the United States government survey designates a Lot Number for this location use that number in the "UL or lot no." box. Otherwise use the OCD unit letter.
  11. The bottom hole location of this completion.
  12. Lease code from the following table:  

F	Federal
S	State
P	Fee
J	Jicarilla
N	Navajo
U	Ute Mountain Ute
I	Other Indian Tribe
  13. The producing method code from the following table:  

F	Flowing
P	Pumping or other artificial lift
  14. MM/DD/YY that this completion was first connected to a gas transporter.
  15. The permit number from the District approved C-129 for this completion.
  16. MM/DD/YY of the C-129 approval for this completion.
  17. MM/DD/YY of the expiration of C-129 approval for this completion.
  18. The gas or oil transporter's OGRID number.
  19. Name and address of the transporter of the product.
  20. The number assigned to the POD from which this product will be transported by this transporter. If this is a new well or recompletion and this POD has no number, the district office will assign a number and write it here.
  21. Product code from the following table:  

O	Oil
G	Gas
  22. The ULSTR location of this POD if it is different from the well completion location and a short description of the POD (Example: "Battery A", "Jones CPD", etc.)
  23. The POD number of the storage from which water is moved from this property. If this is a new well or recompletion and this POD has no number, the district office will assign a number and write it here.
  24. The ULSTR location of this POD if it is different from the well completion location and a short description of the POD (Example: "Battery A Water Tank", "Jones CPD Water Tank", etc.).
  25. MO/DA/YR drilling commenced.
  26. MO/DA/YR this completion was ready to produce.
  27. Total vertical depth of the well.
  28. Plugback vertical depth.
  29. Top and bottom perforation in this completion or casing shoe and TD if openhole.
  30. Write in "DHC" if this completion is downhold commingled with another completion or "MC" if there is more than one non-commingled completion in this well bore. Attach actual completed well bore diagram
  31. Outside diameter of the casing and tubing.
  32. Depth of casing and tubing. If a casing liner, show top and bottom.
  33. Number of sacks of cement used per casing string.
- The following test data is for an oil well. It must be from a test conducted only after the total volume of load oil is recovered.
34. MM/DD/YY that new oil was first produced.
  35. MM/DD/YY that gas was first produced into a pipeline.
  36. MM/DD/YY that the following test was completed.
  37. Length in hours of the test.
  38. Flowing tubing pressure - oil wells  
Shut-in tubing pressure - gas wells
  39. Flowing casing pressure - oil wells  
Shut-in casing pressure - gas wells
  40. Diameter of the choke used in the test.
  41. Barrels of oil produced during the test.
  42. Barrels of water produced during the test.
  43. MCF of gas produced during the test.
  44. Gas well calculated absolute open flow in MCF/D.
  45. The method used to test the well:  

F	Flowing
P	Pumping
S	Swabbing

If other method please write it in.
  46. The signature, printed name, and title of the person authorized to make this report, the date this report was signed, and the telephone number to call for questions about this report.
  47. The previous operator's name, the signature, printed name, and title of the previous operator's representative authorized to verify that the previous operator no longer operates this completion, and the date this report was signed by that person.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Santa Fe  
1 Copy to Appropriate  
District Office

**DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS,  
REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS**

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

☐ New ☒ Renewal ☐ Modification

1. Type: BRINE STATION Wasser hund.

2. Operator: GANDY CORPORATION

Address: P.O. BOX 827, TATUM, NM 88267

Contact Person: LARRY GANDY Phone: (505) 398-4960

3. Location: SW /4 SW /4 Section 31 Township 16 S Range 35 E  
Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

14. CERTIFICATION I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: LARRY GANDY

Title: Vice- President

Signature: 

Date: February 19, 2001

District I  
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Name: LARRY GANDY

Title: Vice- President

Signature: 

Date: February 19, 2001

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

☐ New

☒ Renewal

☐ Modification

1. Type: BRINE STATION

2. Operator: GANDY CORPORATION

Address: P.O. BOX 827, TATUM, NM 88267

Contact Person: LARRY GANDY

Phone: (505) 398-4960

3. Location: SW /4 SW /4 Section 31 Township 16 S Range 35 E

Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.

5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.

6. Attach a description of all materials stored or used at the facility.

7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.

8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.

9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.

10. Attach a routine inspection and maintenance plan to ensure permit compliance.

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

12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.

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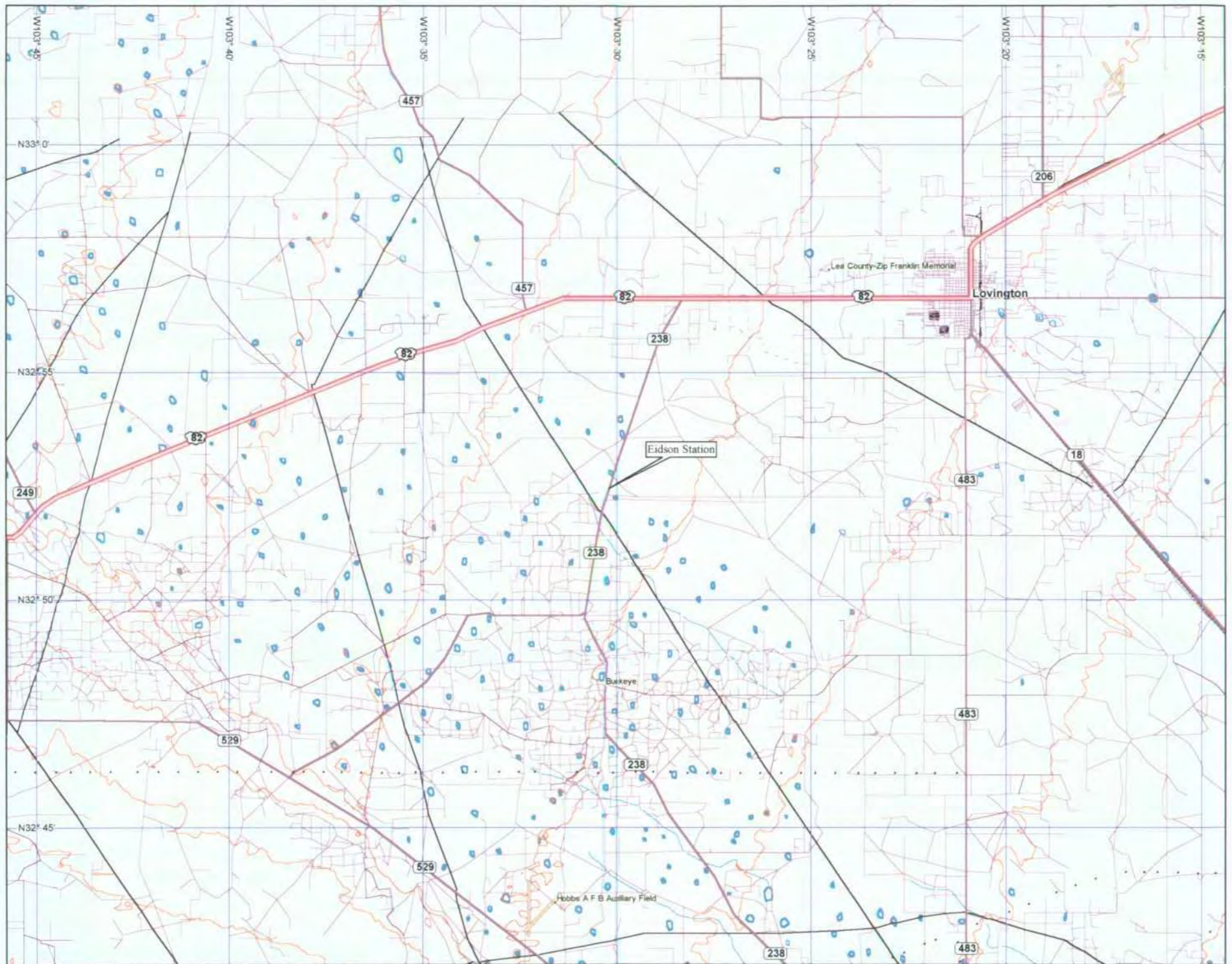
Name: LARRY GANDY

Title: Vice- President

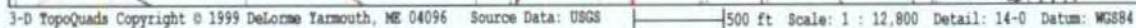
Signature: 

Date: February 19, 2001









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

**Response:** The landowner of this facility is the State of New Mexico. Gandy Corporation makes annual rental payments to the office of the Commissioner of Public Lands, P. O. Box 1148, Sante Fe, New Mexico 87504-1148. Phone: (505) 398-4960.

The facility was purchased by the Gandy Corporation from Wasserhund Incorporated on October 1, 2000.

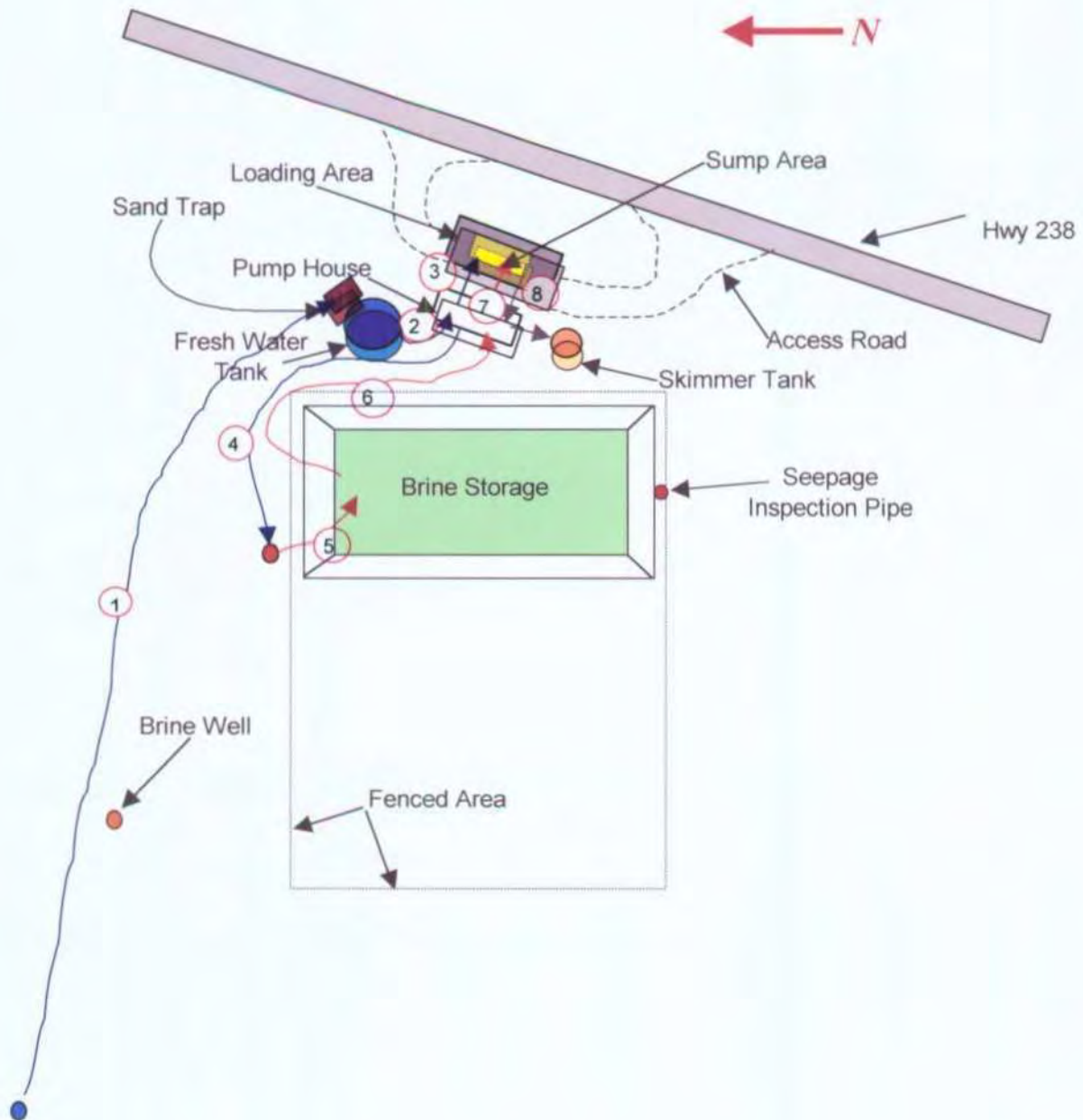
**V. Attach the description of the facility with a diagram showing the location of fences, pits, dikes and tanks on the facility.**

**Response:** Enclosed are Exhibits 1, 2 and 3 providing a schematic of the facility, location of flow lines, and a process description.



**Gandy Corporation  
Eidson Brine Station**

**Exhibit 1  
Site Schematic  
Exhibit 2**



**Exhibit 3**  
**Eidson Brine Station**  
**Process Description**

1. Fresh water is pumped from a well through a sand filter and into a 500 barrel storage tank.
2. The fresh water is transferred from the storage tank to the pump house.
3. The fresh water may be pumped directly into an overhead truck loading system
4. Fresh water may also be diverted into the annulus of the brine well.
5. Brine water is pumped into an above grade reservoir.
6. The brine water is then diverted to the pump station.
7. The brine water is pumped through an overhead loading system directly into trucks.
8. Runoff or effluent is collected within a sump and automatically pumped into a 210 barrel tank where it is trucked off to commercial disposal.

**VI. Attach a description of all materials stored or used at the facility.**

**Response:** There are no materials stored or routinely used at this facility.

**VII. Attach a description of present sources of effluent and solid waste. Average quality and daily volume of waste water must be included.**

**Response:** The facility produces no solid waste. The average daily volume of effluent is 5 barrels per day. The quality of effluent is contained within Exhibit 4.

**VIII. Attach a description of current liquid and solid waste collection / treatment / disposal procedures.**

**Response:** Exhibit 5 shows a cement loading ramp complete with a concrete sump tank to catch any spills or overflows. In the event of a spill or overflow, an electrical automatic float switch activates a sump pump and any spillage or overflow is pumped into the elevated 210 barrel tank shown on exhibit 6. Water from this tank is pumped into and removed by transport trucks.

The site is automatically metered to the extent that water, brine and fresh, can be counted at any time. Low and high pressure switches are mounted on all lines, and in the event of a spill, break or overflow that the sump pump cannot handle, the facility shuts down completely and automatically.



Exhibit 5

## **Detail of Sump Grating**

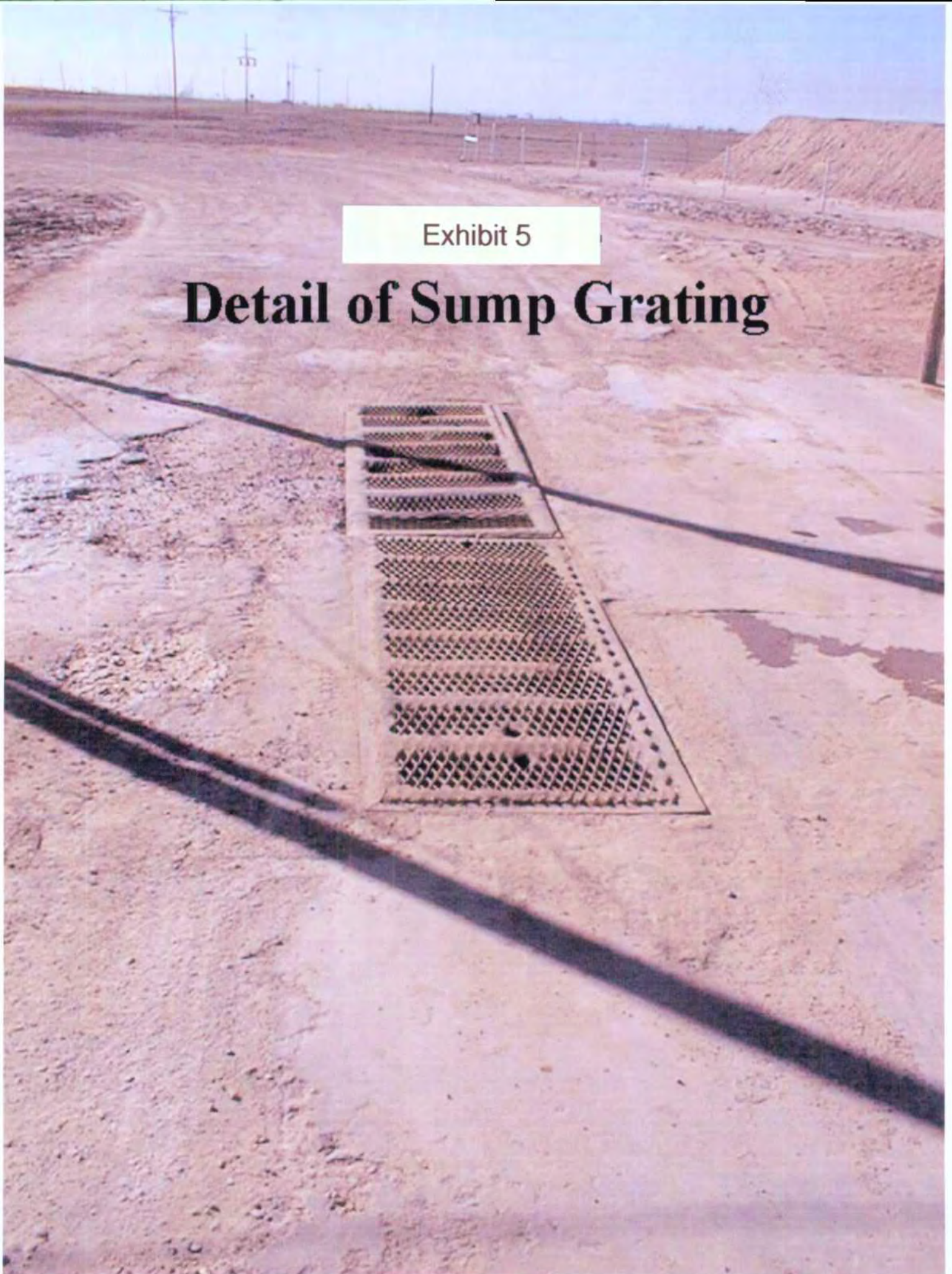
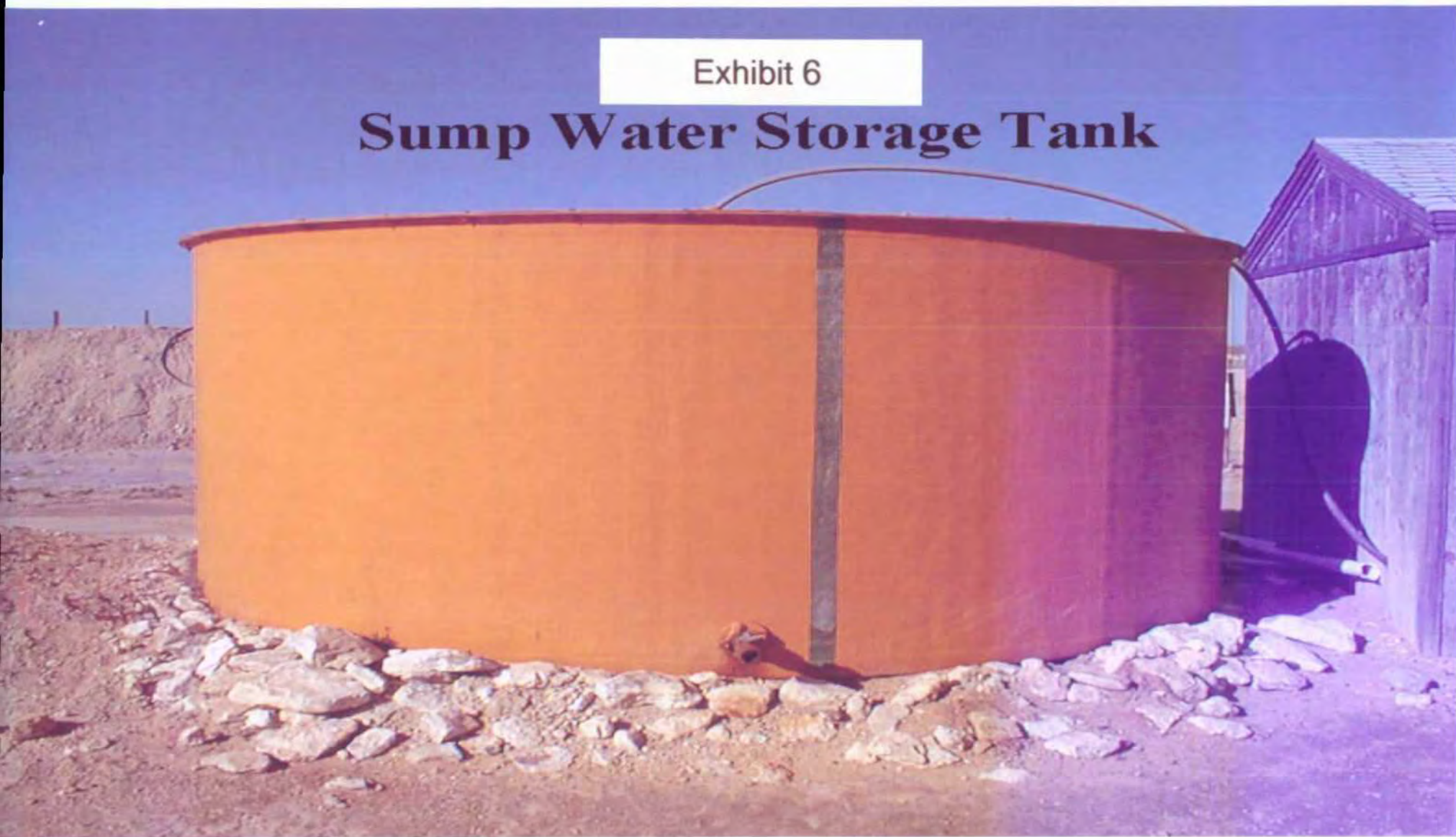




Exhibit 6

## Sump Water Storage Tank



**IX. Attach a description of proposed modifications to existing collection / treatment / disposal systems.**

**Response:** No modifications to the facility are planned at this time.



**X. Attach a routine inspection and maintenance plan to insure permit compliance.**

**Response:** The facility will be inspected on a weekly basis and after each heavy rainfall event. The inspection will look for any leaks, breaks, or spills. All pumps and flowlines will be inspected for obvious wear or damage.

**XI. Attach a contingency plan for reporting and clean up of spills or releases.**

**Response:** Gandy Corporation owns and operates backhoes, vacuum trucks and other construction equipment commonly employed on spill clean-ups. In the event of an unplanned release of brine water, Gandy will immediately notify the Hobbs office of the NMOCD and remove all free liquids. Such removed liquids will be sent to commercial disposal.

All impacted soils will be delineated as to both vertical and lateral extent and all affected soils removed to commercial disposal. Replacement soils will be re-deposited within the excavated area and compacted to match the surrounding topographical elevations.

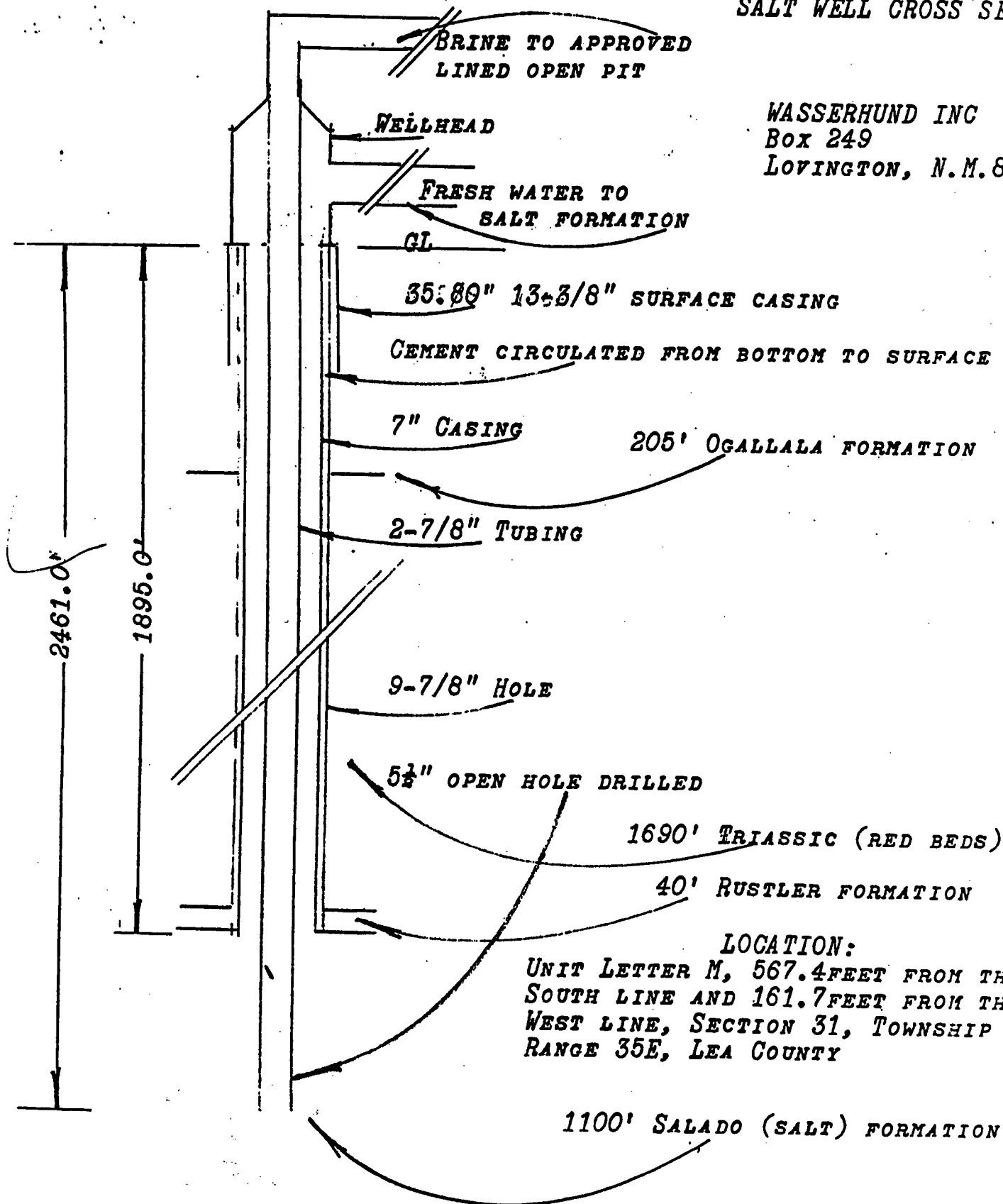
**XII. Attach geological hydrological information for the facility. Depth to and quality of groundwater must be included**

**Response:** Exhibit 7 provides a cross section of the brine well. The quality of the well water is provided within Exhibit 4.

# Exhibit 7

## SALT WELL CROSS SECTION

WASSERHUND INC  
Box 249  
LOVINGTON, N.M. 88260



**XIII. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and / or orders.**

**Response:** There are five closure issues within this facility.

- A. Wells:** At abandonment, the brine extraction well will be plugged in accordance with all appropriate state law.
- B. Lined Storage Reservoir Fluids:** At abandonment, all non-commercial grade fluids contained within the lined surface impoundment will be collected and transported to a licensed disposal facility.
- C. Lined Surface Reservoir Solids:** The plastic liner and associated solids consisting primarily of sodium chloride contaminated blow sands will be transported to a licensed commercial facility for disposal.
- D. Tanks and Ancillary Equipment:** Storage tanks, pumps, fencing materials, piping and other structures will be removed from the site. The final disposition of these materials is dependant on their condition at the time of dismantlement. Cement structures will be removed and transported to commercial disposal.
- E. Contaminated Soils:** After all surface structures are removed from the facility, the soils will be analyzed for the presence and concentrations of total petroleum hydrocarbons, benzene, toluene, ethylbenzene, xylene and chlorides. All soils containing criteria contaminant concentrations in excess of NMOCD closure guidelines will either be remediated in accordance NMOCD spill closure guidelines or transported to commercial disposal.

Quarterly reports for both fresh and brine water produced are sent to the proper authorities. Fresh water reporting goes to the State Engineer Office, 1900 West Second Street, Roswell, New Mexico 88201. Brine water reporting goes to the Commissioner of Public Lands, Box 1148, Sante Fe, New Mexico 87504. Fresh and brine water reporting goes to the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Sante Fe, New Mexico 87504.

## **Exhibits**

- Exhibit 1: Plat map of the facility.
- Exhibit 2: Flow Schematic of the facility.
- Exhibit 3: Narrative of flow schematic.
- Exhibit 4: Chain of custody and laboratory analytical results of fresh and produced brine waters.
- Exhibit 5: Photograph of sump grate.
- Exhibit 6: Photograph of sump water storage tank.
- Exhibit 7: Schematic cross section of the brine well.

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

Sample Type: Water  
Sample Condition: Intact/ 4 deg. C  
Project #: None Given  
Project Name: Eidson Station  
Project Location: None Given

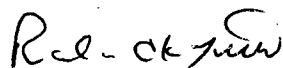
Sampling Date: 12/04/00  
Receiving Date: 12/09/00  
Analysis Date: See Below

ELT#	FIELD CODE	Sulfate mg/L	Chloride mg/L	Carbonate mg/L	Bicarbonate mg/L	TDS mg/L	Conductivity uS/cm
35143	Salt Water	3113	221563	<2	78	332232	164200
35144	Fresh Water	60.2	35	<2	146	318	590

QUALITY CONTROL	50.5	5318	*	*	*	1432
TRUE VALUE	50.0	5000	*	*	*	1413
% PRECISION	101	106	*	*	*	101
BLANK	<0.5	<10	<2	<2	<5	*

ANALYSIS DATE	12/13/00	12/12/00	12/12/00	12/12/00	12/11/00	12/12/00
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METHODS: EPA 375.4, 325.3, 310, 160.1, 120.1

  
Raland K. Tuttle

12-27-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

Sample Type: Water  
Sample Condition: Intact/ 4 deg. C  
Project #: None Given  
Project Name: Eidson Station  
Project Location: None Given

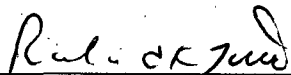
Sampling Date: 12/04/00  
Receiving Date: 12/09/00  
Analysis Date: 12/12/00

ELT#	FIELD CODE	pH s.u.	Hardness mg/L	Specific Gravity @ 60 deg F
35143	Salt Water	6.88	42000	1.185
35144	Fresh Water	8.42	650	1.000

QUALITY CONTROL  
TRUE VALUE  
% PRECISION  
BLANK

7.02	*	*
7.00	*	*
100	*	*
*	<10	*

METHODS: EPA 150.1, 130.2

  
Raland K. Tuttle

12-27-00  
Date



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

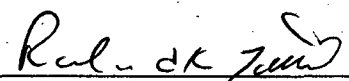
WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

Sample Type: Water  
Sample Condition: Intact/ 4 deg. C  
Project #: None Given  
Project Name: Eidson Station  
Project Location: None Given

Sampling Date: 12/04/00  
Receiving Date: 12/09/00  
Analysis Date: 12/12, 12/14,  
12/20/00

ELT#	FIELD CODE	Ca mg/L	Mg mg/L	Fe mg/L	Ba mg/L
35143	Salt Water	2328	7885	1.44	<0.10
35144	Fresh Water	34.2	9.52	0.18	<0.10
QUALITY CONTROL		10.29	4.91	0.99	2.01
TRUE VALUE		10.00	5.00	1.00	2.00
% PRECISION		103	93	99	100
BLANK		<0.10	<0.10	<0.03	<0.10

METHODS: SM 7000 series

  
Raland K. Tuttle

12-27-00  
Date

**12600 West I-20 East  
Odessa, Texas 79763**

**Fax: 915-563-1713**

Project Manager: M. Gifford

Project Name: Edison Station

Company Name Whole Earth Environmental

Project #: \_\_\_\_\_

**Company Address:**

Project Loc: \_\_\_\_\_

City/State/Zip:

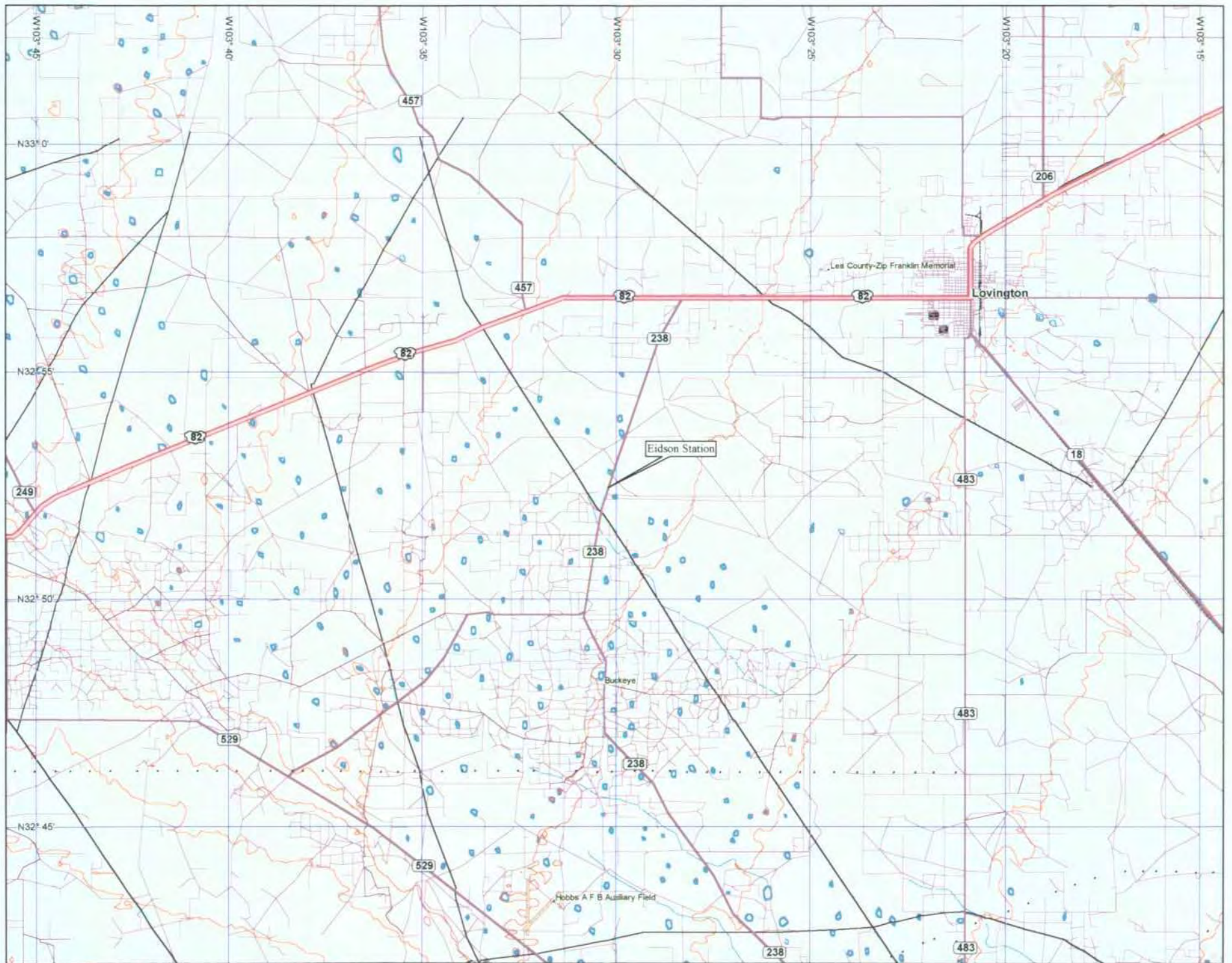
PO #:

Telephone No: 800.854.4358 Fax No: 281.646.8996

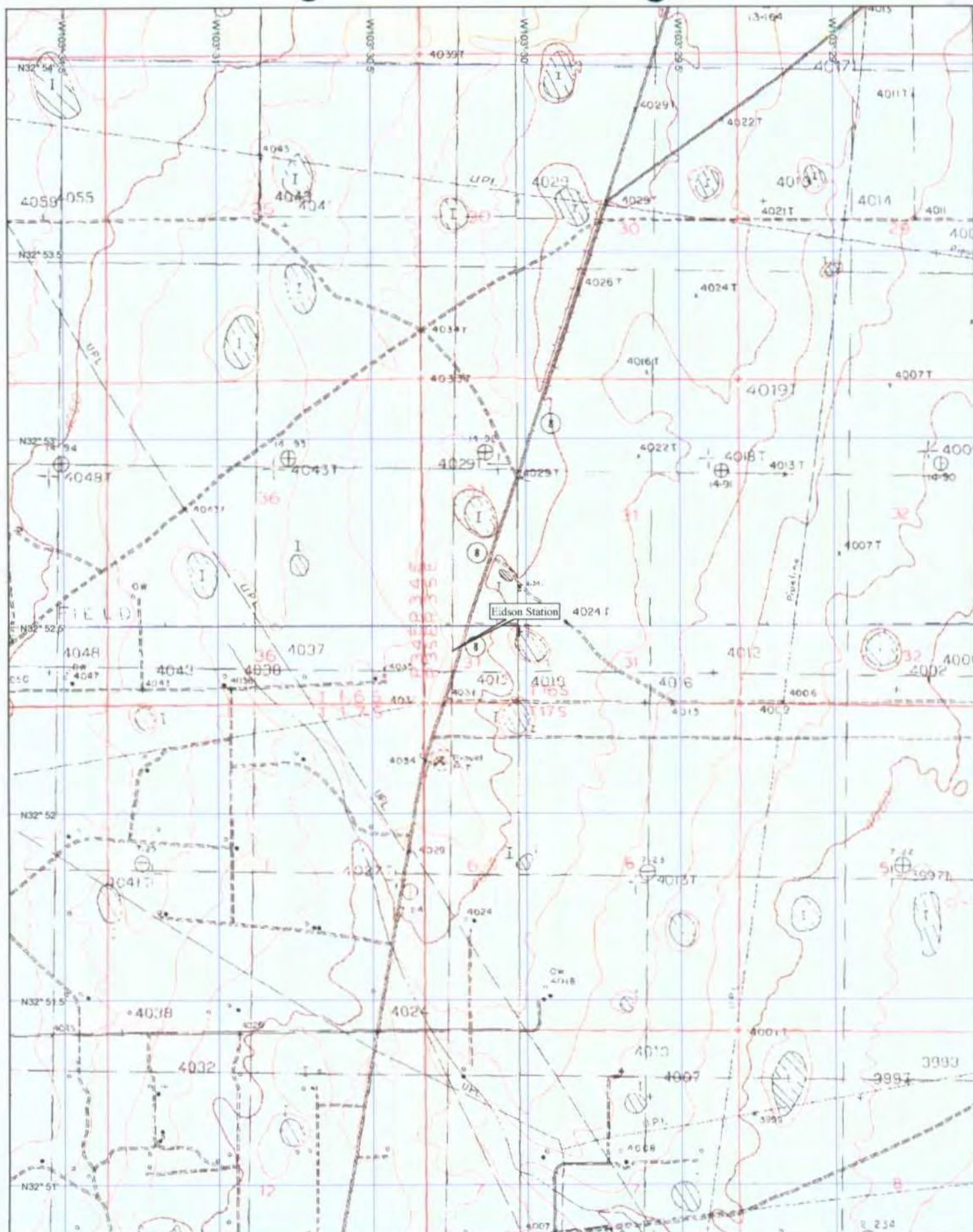
Fax No: 281-646-8996

**Sampler Signature:** \_\_\_\_\_

[illegible]







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

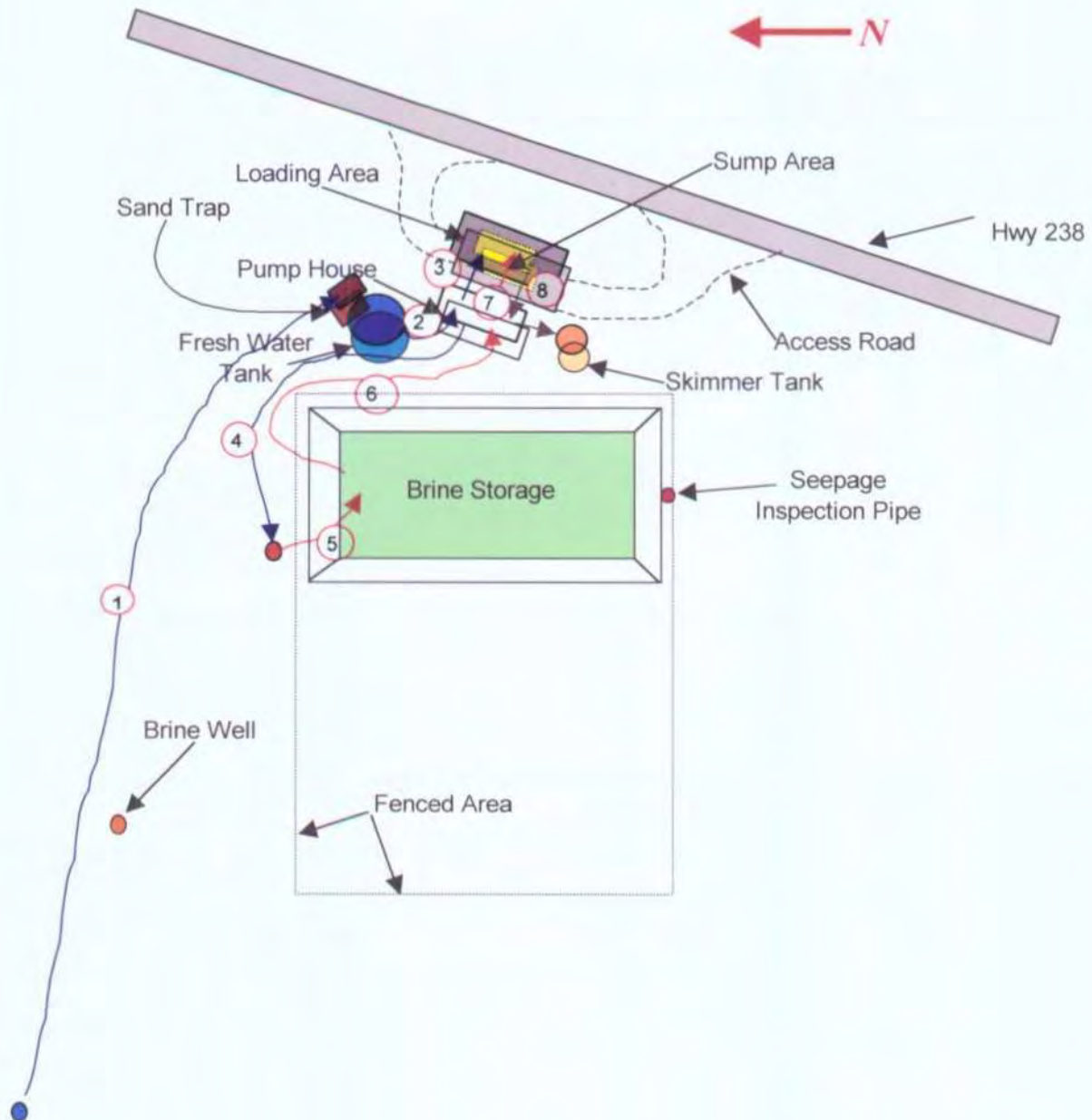
**Response:** The landowner of this facility is the State of New Mexico. Gandy Corporation makes annual rental payments to the office of the Commissioner of Public Lands, P. O. Box 1148, Sante Fe, New Mexico 87504-1148. Phone: (505) 398-4960.

The facility was purchased by the Gandy Corporation from Wasserhund Incorporated on October 1, 2000.

**V. Attach the description of the facility with a diagram showing the location of fences, pits, dikes and tanks on the facility.**

**Response:** Enclosed are Exhibits 1, 2 and 3 providing a schematic of the facility, location of flow lines, and a process description.

Gandy Corporation  
Eidson Brine Station  
Exhibit 1  
Site Schematic  
Exhibit 2





**Exhibit 3**  
**Eidson Brine Station**  
**Process Description**

1. Fresh water is pumped from a well through a sand filter and into a 500 barrel storage tank.
2. The fresh water is transferred from the storage tank to the pump house.
3. The fresh water may be pumped directly into an overhead truck loading system
4. Fresh water may also be diverted into the annulus of the brine well.
5. Brine water is pumped into an above grade reservoir.
6. The brine water is then diverted to the pump station.
7. The brine water is pumped through an overhead loading system directly into trucks.
8. Runoff or effluent is collected within a sump and automatically pumped into a 210 barrel tank where it is trucked off to commercial disposal.

**VI. Attach a description of all materials stored or used at the facility.**

**Response:** There are no materials stored or routinely used at this facility.

**VII. Attach a description of present sources of effluent and solid waste. Average quality and daily volume of waste water must be included.**

**Response:** The facility produces no solid waste. The average daily volume of effluent is 5 barrels per day. The quality of effluent is contained within Exhibit 4.

**VIII. Attach a description of current liquid and solid waste collection / treatment / disposal procedures.**

**Response:** Exhibit 5 shows a cement loading ramp complete with a concrete sump tank to catch any spills or overflows. In the event of a spill or overflow, an electrical automatic float switch activates a sump pump and any spillage or overflow is pumped into the elevated 210 barrel tank shown on exhibit 6. Water from this tank is pumped into and removed by transport trucks.

The site is automatically metered to the extent that water, brine and fresh, can be counted at any time. Low and high pressure switches are mounted on all lines, and in the event of a spill, break or overflow that the sump pump cannot handle, the facility shuts down completely and automatically.

Exhibit 5

## Detail of Sump Grating

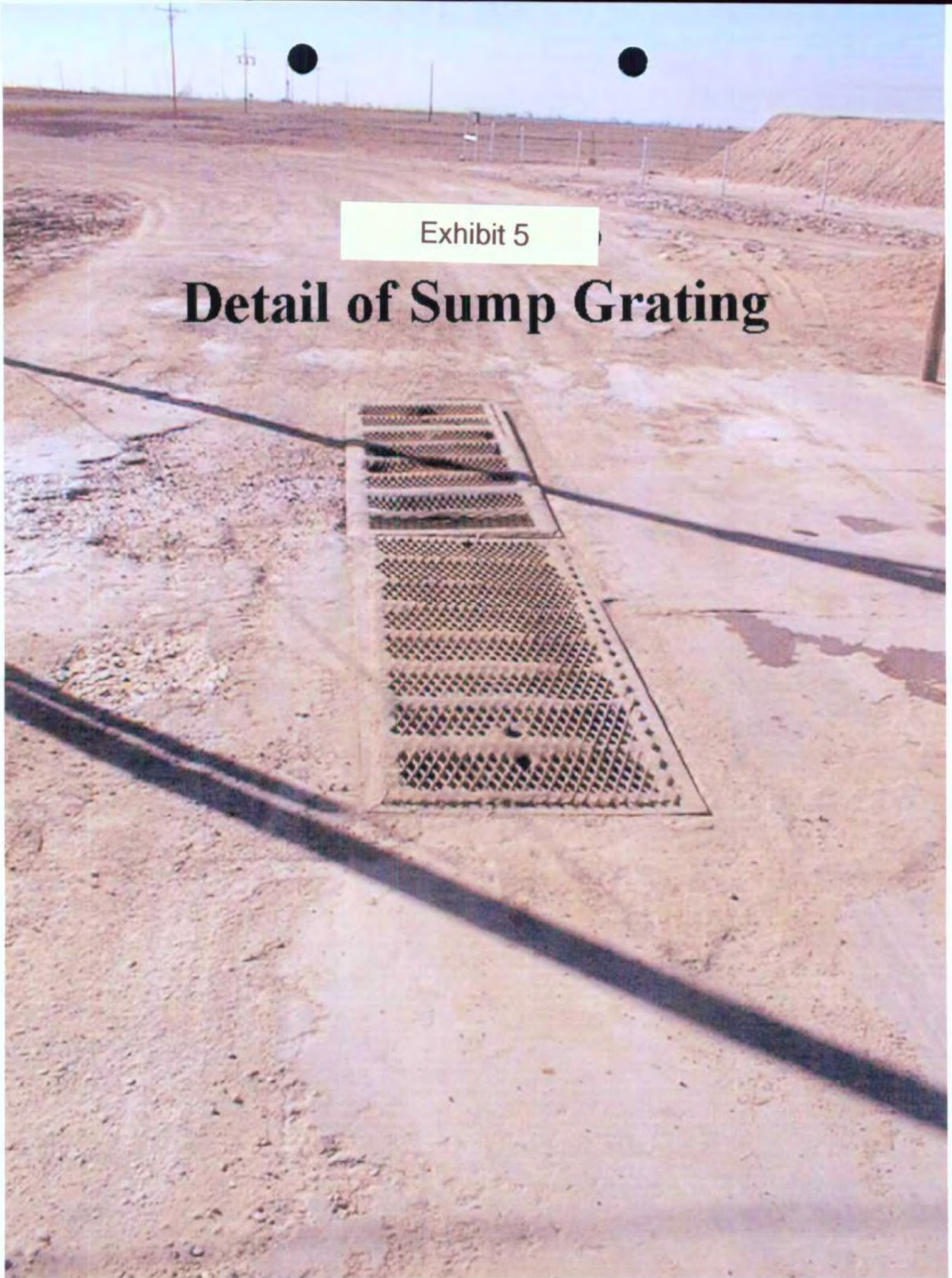
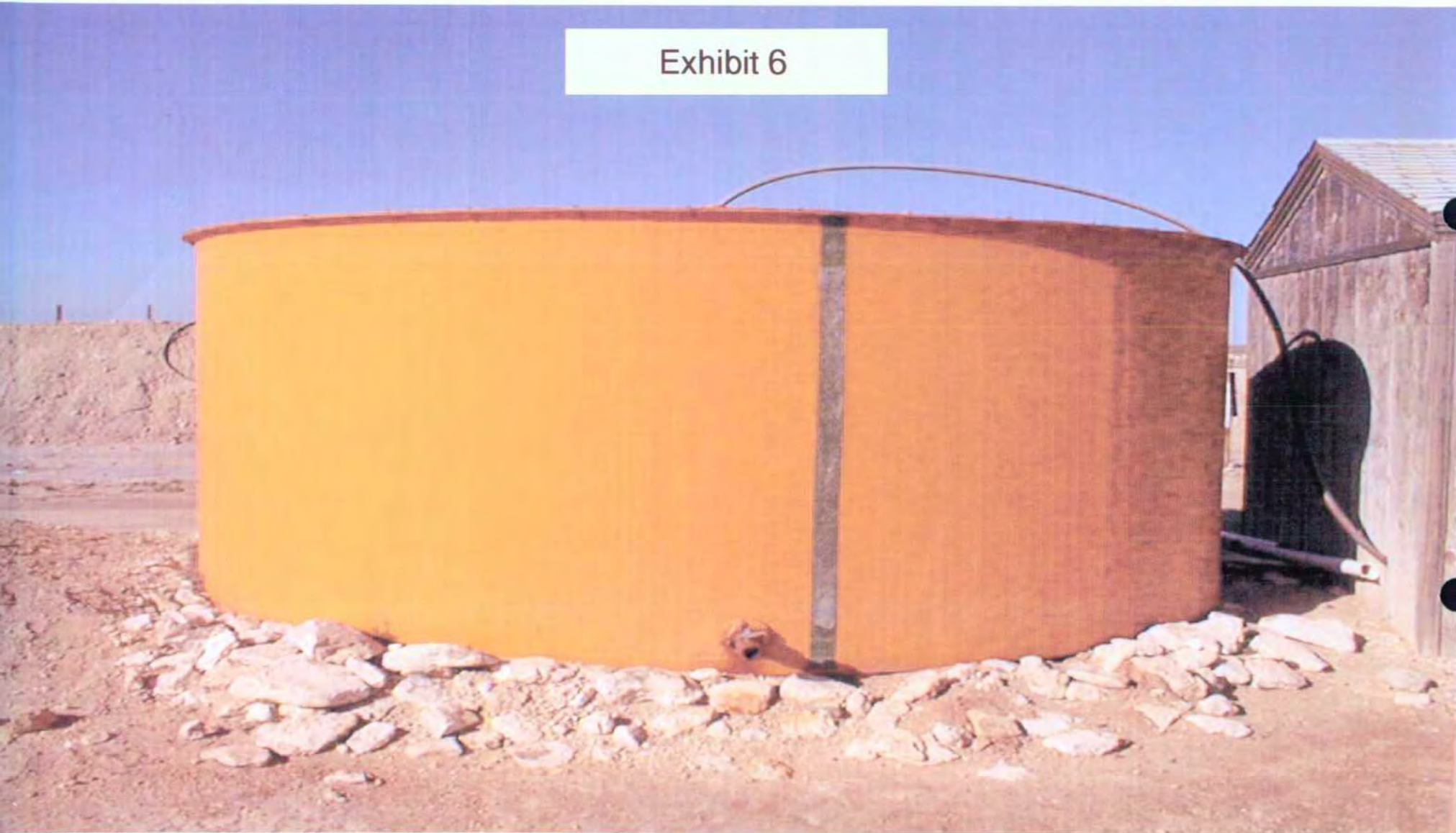




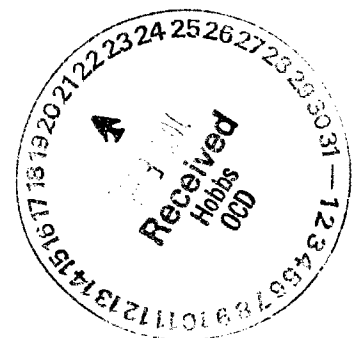
Exhibit 6



**IX. Attach a description of proposed modifications to existing collection / treatment / disposal systems.**

**Response:** No modifications to the facility are planned at this time.





**X. Attach a routine inspection and maintenance plan to insure permit compliance.**

**Response:** The facility will be inspected on a weekly basis and after each heavy rainfall event. The inspection will look for any leaks, breaks, or spills. All pumps and flowlines will be inspected for obvious wear or damage.

**XI. Attach a contingency plan for reporting and clean up of spills or releases.**

**Response:** Gandy Corporation owns and operates backhoes, vacuum trucks and other construction equipment commonly employed on spill clean-ups. In the event of an unplanned release of brine water, Gandy will immediately notify the Hobbs office of the NMOCD and remove all free liquids. Such removed liquids will be sent to commercial disposal.

All impacted soils will be delineated as to both vertical and lateral extent and all affected soils removed to commercial disposal. Replacement soils will be re-deposited within the excavated area and compacted to match the surrounding topographical elevations.

**XII. Attach geological hydrological information for the facility. Depth to and quality of groundwater must be included**

**Response:** Exhibit 7 provides a cross section of the brine well. The quality of the well water is provided within Exhibit 4.

SALT WELL CROSS SECTION

Exhibit 7

WASSERHUND INC  
Box 249  
LOVINGTON, N.M. 88260

BRINE TO APPROVED  
LINED OPEN PIT

WELLHEAD

FRESH WATER TO  
SALT FORMATION

35.80" 13-3/8" SURFACE CASING

CEMENT CIRCULATED FROM BOTTOM TO SURFACE

7" CASING

205' OGALLALA FORMATION

2-7/8" TUBING

9-7/8" HOLE

5 1/2" OPEN HOLE DRILLED

1690' TRIASSIC (RED BEDS)

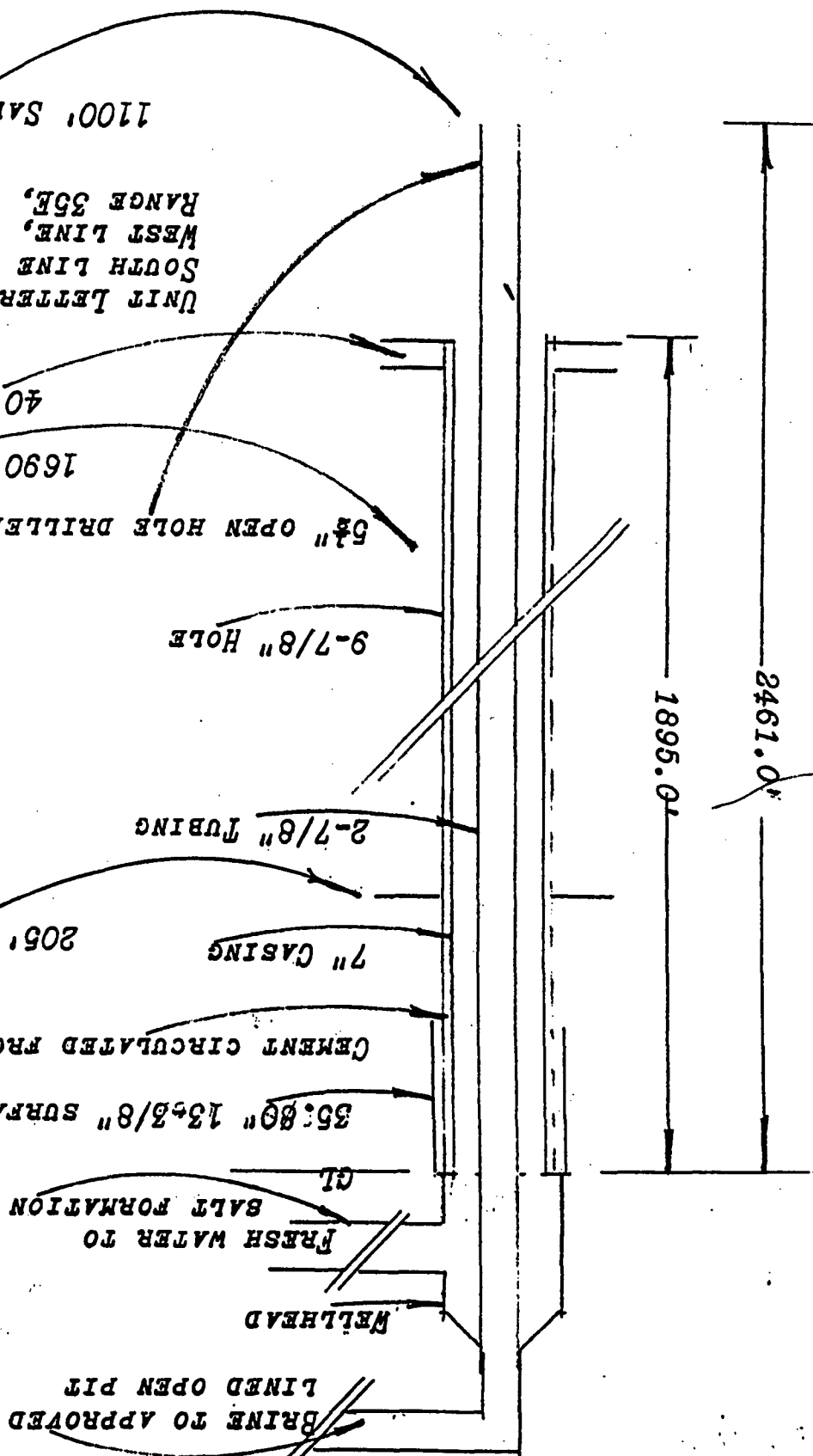
40' RUSTLER FORMATION

LOCATION:

UNIT LETTER M, 567.4 FEET FROM THE  
SOUTH LINE AND 161.7 FEET FROM THE  
WEST LINE, SECTION 31, TOWNSHIP 16S,  
RANGE 35E, LEA COUNTY

1100' SALADO (SALT) FORMATION

2461.0'  
1895.0'



**XIII. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and / or orders.**

**Response:** There are five closure issues within this facility.

- A. Wells:** At abandonment, the brine extraction well will be plugged in accordance with all appropriate state law.
- B. Lined Storage Reservoir Fluids:** At abandonment, all non-commercial grade fluids contained within the lined surface impoundment will be collected and transported to a licensed disposal facility.
- C. Lined Surface Reservoir Solids:** The plastic liner and associated solids consisting primarily of sodium chloride contaminated blow sands will be transported to a licensed commercial facility for disposal.
- D. Tanks and Ancillary Equipment:** Storage tanks, pumps, fencing materials, piping and other structures will be removed from the site. The final disposition of these materials is dependant on their condition at the time of dismantlement. Cement structures will be removed and transported to commercial disposal.
- E. Contaminated Soils:** After all surface structures are removed from the facility, the soils will be analyzed for the presence and concentrations of total petroleum hydrocarbons, benzene, toluene, ethylbenzene, xylene and chlorides. All soils containing criteria contaminant concentrations in excess of NMOCD closure guidelines will either be remediated in accordance NMOCD spill closure guidelines or transported to commercial disposal.

Quarterly reports for both fresh and brine water produced are sent to the proper authorities. Fresh water reporting goes to the State Engineer Office, 1900 West Second Street, Roswell, New Mexico 88201. Brine water reporting goes to the Commissioner of Public Lands, Box 1148, Sante Fe, New Mexico 87504. Fresh and brine water reporting goes to the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Sante Fe, New Mexico 87504.

## **Exhibits**

- Exhibit 1: Plat map of the facility.
- Exhibit 2: Flow Schematic of the facility.
- Exhibit 3: Narrative of flow schematic.
- Exhibit 4: Chain of custody and laboratory analytical results of fresh and produced brine waters.
- Exhibit 5: Photograph of sump grate.
- Exhibit 6: Photograph of sump water storage tank.
- Exhibit 7: Schematic cross section of the brine well.



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

Sample Type: Water  
Sample Condition: Intact/ 4 deg. C  
Project #: None Given  
Project Name: Eidson Station  
Project Location: None Given

Sampling Date: 12/04/00  
Receiving Date: 12/09/00  
Analysis Date: See Below

ELT#	FIELD CODE	Sulfate mg/L	Chloride mg/L	Carbonate mg/L	Bicarbonate mg/L	TDS mg/L	Conductivity uS/cm
35143	Salt Water	3113	221563	<2	78	332232	164200
35144	Fresh Water	60.2	35	<2	146	318	590

QUALITY CONTROL	50.5	5318	*	*	*	1432
TRUE VALUE	50.0	5000	*	*	*	1413
% PRECISION	101	106	*	*	*	101
BLANK	<0.5	<10	<2	<2	<5	*

ANALYSIS DATE	12/13/00	12/12/00	12/12/00	12/12/00	12/11/00	12/12/00
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METHODS: EPA 375.4, 325.3, 310, 160.1, 120.1

  
Raland K. Tuttle

12-27-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996

Sample Type: Water  
Sample Condition: Intact/ 4 deg. C  
Project #: None Given  
Project Name: Eidson Station  
Project Location: None Given

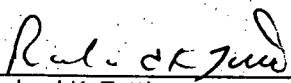
Sampling Date: 12/04/00  
Receiving Date: 12/09/00  
Analysis Date: 12/12/00

ELT#	FIELD CODE	pH s.u.	Hardness mg/L	Specific Gravity @ 60 deg F
35143	Salt Water	6.88	42000	1.185
35144	Fresh Water	8.42	650	1.000

QUALITY CONTROL  
TRUE VALUE  
% PRECISION  
BLANK

7.02	*	*
7.00	*	*
100	*	*
*	<10	*

METHODS: EPA 150.1, 130.2

  
Raland K. Tuttle

12-27-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL  
ATTN: MR. MIKE GRIFFIN  
19606 SAN GABRIEL  
HOUSTON, TEXAS 77084  
FAX: 281-646-8996


Sample Type: Water  
Sample Condition: Intact/ 4 deg. C  
Project #: None Given  
Project Name: Eidson Station  
Project Location: None Given

Sampling Date: 12/04/00  
Receiving Date: 12/09/00  
Analysis Date: 12/12, 12/14,  
12/20/00

ELT#	FIELD CODE	Ca mg/L	Mg mg/L	Fe mg/L	Ba mg/L
35143	Salt Water	2328	7885	1.44	<0.10
35144	Fresh Water	34.2	9.52	0.18	<0.10

QUALITY CONTROL	10.29	4.91	0.99	2.01
TRUE VALUE	10.00	5.00	1.00	2.00
% PRECISION	103	93	99	100
BLANK	<0.10	<0.10	<0.03	<0.10

METHODS: SM 7000 series

  
Raland K. Tuttle

12-27-00  
Date

**12600 West I-20 East  
Odessa, Texas 79763**

**Phone: 915-563-1800**  
**Fax: 915-563-1713**

### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Edison Station

Project #: \_\_\_\_\_

Project Loc: \_\_\_\_\_

PO #: \_\_\_\_\_

Fax No: 281-646-8996

**Sampler Signature:** \_\_\_\_\_

[illegible]

NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

**Jennifer A. Salisbury**  
CABINET SECRETARY

Oil Conservation Div.  
Environmental Bureau  
2040 S. Pacheco  
Santa Fe, NM 87505

## Memorandum of Meeting or Conversation

**Telephone**   X    
**Personal** \_\_\_\_\_  
**E-Mail**   X   **gandy2@leaco.net**  
**FAX:** \_\_\_\_\_

**12/21/2000**

**Originating Party: Wayne Price-OCD**

**Other Parties:** **Larry Gandy-Gandy Corp.**

**Subject: Discharge Plan Renewal Notice for the following Facilities:**

<b>BW-004</b>	<b>Wasserhund (Edison-Ranch)</b>	<b>expires 6/11/01</b>
<b>GW-__</b>	<b>Name expires</b>	
<b>GW-__</b>	<b>Name expires</b>	
<b>GW-__</b>	<b>Name expires</b>	

**WQCC 3106.F.** If the holder of an approved discharge plan submits an application for discharge plan renewal at least 120 days before the discharge plan expires, and the discharger is not in violation of the approved discharge plan on the date of its expiration, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. A discharge plan continued under this provision remains fully effective and enforceable. An application for discharge plan renewal must include and adequately address all of the information necessary for evaluation of a new discharge plan. Previously submitted materials may be included by reference provided they are current, readily available to the secretary and sufficiently identified to be retrieved. [12-1-95]

**Discussion:** Discussed WQCC 3106F and gave notice to submit Discharge Plan renewal application with \$50.00 filing fee for the above listed facilities.

### Conclusions or Agreements:

**Signed:** \_\_\_\_\_

**GANDY CORPORATION**

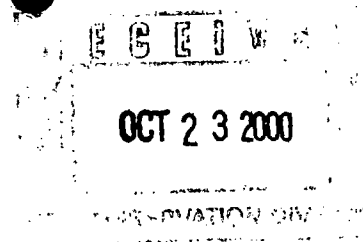
OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX -505-398-6887



October 19, 2000

Wayne Price  
NM Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

Dear Mr. Price:

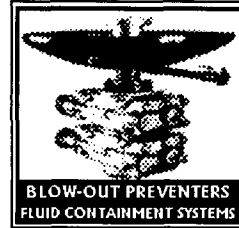
Effective October 1, 2000 Gandy Corporation purchased the Wasserhund Eidson Brine Station. Legal Description is Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico.

Please send all future correspondence to Gandy Corporation.

Sincerely Yours,

Larry Gandy

**D & L Meters & Instrument Service, Inc.**  
P.O. Box 1621  
Lovington, NM 88260  
(505) 396-3715 FAX (505) 396-5812



---

**Wednesday, October 27, 1999**

**Wasserhund Inc.  
Mr. Pete Haseloff**

**10:13 a.m.**

**Testing verification on 1000# Pressure Recorder**

**Tested at midrange (550 psi) to an accuracy of + or - 5%**

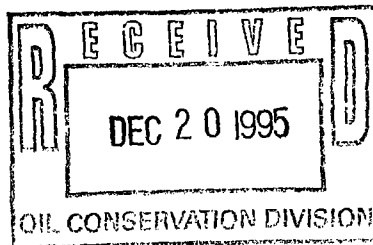
**Kenneth L. Wallace  
President**

A handwritten signature in black ink, appearing to read "K. Wallace", with a long horizontal line extending to the right.

**Kenneth L. Wallace  
President**



December 18, 1995



Mr. Mark Ashley  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

SUBJECT: Wasserhund Inc. BW-004

Dear Mark:

Find enclosed application for discharge plan renewal for Wasserhund Inc., BW-004 Brine facility. Also enclosed is check for filing fee.

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

Have a Happy Holiday.

Sinncerely,

*Eddie W Seay*

Eddie W. Seay, Agent  
601 W. Illinois  
Hobbbs, NM 88240  
(505)392-2236

**WASSERHUND INC.**

P. O. BOX 249 396-3128  
LOVINGTON, NM 88260

95-108/1122  
6

PAY TO THE ORDER OF NMED-Water Quality Management \$ 50.00  
Fifty and No/100-----  
DOLLARS

THIS CHECK IS DELIVERED IN CONNECTION WITH THE FOLLOWING ACCOUNTS.

filing fee			
Discharge Plan BW-004			

*[Signature]*

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

Discharge Plan  
BW-004

- I. FACILITY NAME: Wasserhund Eidson Brine Station
- II. OPERATOR: Wasserhund Incorporated  
ADDRESS: P. O. Box 249, Lovington, NM 88260  
CONTACT PERSON: Jack C Hunter PHONE: (505) 396 3128
- III. LOCATION: SW /4 SW /4 Section 31 Township 16 S Range 35 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: J. E. Haseloff Title: President

Signature: 

Date: 11-21-95

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

WASSERHUND INCORPORATED  
P. O. Box 249  
921 South Love  
Lovington, New Mexico 88260

November 27, 1995

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

RE: Renewal  
Discharge Plan  
BW-004

Dear Sir:

Submitted herewith is a detailed narrative for the above mentioned renewal of our brine well.

Wasserhund Incorporated commenced production of brine water in October 1980 at this facility site. The landowner of this facility site is the State of New Mexico. Wasserhund Incorporated makes annual rental payments to the office of the Commissioner of Public Lands, P. O. Box 1148, Santa Fe, New Mexico 87504-1148.

The average quality of the brine water is 10 pounds per gallon. The Quantity of water produced in the years 1993 and 1994 has been 464,961 barrels with an average of 19,373 barrels per month. The most current fresh and brine water analysis is Exhibit 1. The Monitor well inspection logs is Exhibit 2.

Fresh water is pumped from a well shown in Exhibits 3, 4, 5, 6, 7 and 11 to a 500 barrel storage tank shown in Exhibits 4, 5 and 15. From this tank fresh water is drawn through a 7½ HP pump directly to an overhead truck loading system shown in Exhibits 4, 8 and 18. Fresh water is also drawn from this tank and is pumped under 390# pressure down to the salt section of the brine well shown in Exhibits 4, 5, 9, 12 and 14. Brine water is returned through the tubing and deposited in an open lined reservoir holding 11,000 barrels as shown in Exhibits 4, 5, 10, 20 and 21. From this lined reservoir brine water is drawn through a 7½ HP pump directly to an overhead truck loading system shown in Exhibits 4, 8, 13 and 20. Exhibits 4, 5, 8 and 18 show a concrete loading ramp complete with a concrete sump tank to catch any spills or overflows. In the event of a spill or overflow, an electrical automatic float switch activates a sump pump and any spillage

or overflow is pumped into the elevated 210 barrel tank shown in Exhibit 19. Water from this tank is pumped into and removed from location by transport trucks.

Wasserhund Incorporated is automatically metered to the extent that water, brine and fresh, can be counted at any time. Low and high pressure switches are mounted on all lines, and in the event of a break, spill or overflow that the sump pump cannot handle, the facility shuts down completely and automatically. Some of the automation is shown in Exhibits 15 and 16.

Fresh water is obtained from the Ogallala formation by a well shown in Exhibits 3, 4, 5, 6, 7 and 11, and the fresh water analysis is Exhibit 2. Other fresh water wells in a two mile radius are shown on Exhibit 6.


The brine storage facility of Wasserhund Incorporated is elevated by an earth dike to a point at least 4 feet above ground level. There are no arroyos, creeks or rivers within 10 miles of the facility. See Exhibit 6.

Exhibit 9 shows the lithology beneath the brine facility. This information was obtained from the Oil Conservation Division office in Hobbs, New Mexico.

Quarterly reports for both fresh and brine water produced are sent to the proper authorities. Fresh water reporting goes to the State Engineer Office, 1900 West Second Street, Roswell, New Mexico 88201. Brine water reporting goes to the Commissioner of Public Lands, Box 1148, Santa Fe, New Mexico 87504. Fresh and brine water reporting goes to the Oil Conservation Division, State Land Office Building, P. O. Box 2088, Santa Fe, New Mexico 87504.

Samples of fresh water can be taken as shown in Exhibits 13, 15 and 18. Brine water samples can be taken as shown in Exhibits 13 and 17.

This Discharge Plan is respectfully submitted.

  
Wasserhund Incorporated  
J. E. Haseloff-President



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

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

## CHEMICAL ANALYSIS OF WATER

Company : Wasserhund  
 City, St.: Box 249  
 Proj.Name:  
 Location : Wasserhund Water Station  
 Sample 1 : Fresh Water  
 Sample 2 : Brine Water

Date: 12/11/95  
 Lab #: H2310

<u>PARAMETER</u>	<u>RESULT 1</u>	<u>RESULT 2</u>	<u>mg/L</u>
pH	7.58	6.55	
Alkalinity	175	325	
Carbonate	-0-	-0-	
Bicarbonate (HCO <sub>3</sub> )	175	325	
Total Hardness	182	42,000	
Magnesium (Mg)	11.7	9,742	
Calcium (CaCO <sub>3</sub> )	51.8	1,931.8	
Chloride (Cl)	36	200,338	
Sulfate (SO <sub>4</sub> )	70.85	4,429.9	
Iron (Fe)	0.096	0.248	
Barium (Ba)	0.06	<0.1	
TDS (mg/L)	325	312,745	
Specific Gravity	0.9974	1.2230	
Conductivity (umhos/cm)	300	380,000	

Methods: 200.7

Mitch Irvin  
 Mitch Irvin

12-11-95  
 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Monitor Well Inspection Logs  
From April 2, 1991 through November 19, 1995  
As Follows

1991

1

DATE	WET/DRY	INITIALS
APR 12	✓	CLM
APR 19	✓	CLM
MAY 16	✓	CLM
MAY 23	✓	CLM
JUNE 13	✓	CLM
JULY 9	✓	CLM

1991

2

DATE	WET/DRY	INITIALS
JULY 17	✓	CLM
JULY 21	✓	CLM
JULY 31	✓	CLM
AUG 5	✓	CLM
AUG 20	✓	CLM
SEPT 10	✓	CLM
SEPT 19	✓	CLM
OCT 3	✓	CLM
OCT 11	✓	CLM
OCT 19	✓	CLM

1991 1992		3	
DATE	INITIALS		
Nov 5	V	CLM	
Nov 13	V	CLM	
Nov 21	V	CLM	
Nov 27	V	CLM	
Dec 5	V	CLM	
Dec 10	V	CLM	
Dec 14	V	CLM	
Dec 27	V	CLM	
Dec 30	V	CLM	
1992			
Jan 5	V	CLM	
Jan 11	V	CLM	
Jan 18	V	CLM	
Jan 24	V	CLM	
Feb 3	V	CLM	
Feb 2	V	CLM	

1992		4	
DATE	INITIALS		
Feb 6	V	CLM	
Feb 12	V	CLM	
Feb 20	V	CLM	
Feb 27	V	CLM	
March 6	V	CLM	
March 12	V	CLM	
March 18	V	CLM	
March 25	V	CLM	
Apr 2	V	CLM	
Apr 10	V	CLM	
Apr 17	V	CLM	
Apr 23	V	CLM	
Apr 30	V	CLM	
May 6	V	CLM	
May 12	V	CLM	

1992		5	
DATE	INITIALS		
May 21	V	CLM	
May 29	V	CLM	
June 5	V	CLM	
June 10	V	CLM	
June 19	V	CLM	
June 24	V	CLM	
July 1	V	CLM	
July 9	V	CLM	
July 16	V	CLM	
July 21	V	CLM	
July 30	V	CLM	
Aug 6	V	CLM	
Aug 14	V	CLM	
Aug 21	V	CLM	
Aug 27	V	CLM	

1992		6	
DATE	INITIALS		
Sept 4	V	CLM	
Sept 9	V	CLM	
Sept 13	V	CLM	
Sept 25	V	CLM	
Oct 2	V	CLM	
Oct 10	V	CLM	
Oct 16	V	CLM	
Oct 23	V	CLM	
Oct 30	V	CLM	
Nov 5	V	CLM	
Nov 12	V	CLM	
Nov 18	V	CLM	
Nov 26	V	CLM	
Dec 2	V	CLM	
Dec 10	V	CLM	



1992  
1993

7

DATE	INITIALS
Dec 16	✓ CLM
Dec 23	✓ CLM
Dec 30	✓ CLM
1993	
Jan 7	✓ CLM
Jan 13	✓ CLM
Jan 22	✓ CLM
Jan 28	✓ CLM
Feb 6	✓ CLM
Feb 13	✓ JCH
Feb 19	✓ CLM
Feb 26	✓ CLM
March 5	✓ CLM
March 8	✓ JCH

1993

8

DATE	INITIALS
March 11	✓ CLM
MAR 19	✓ JCH
March 25	✓ CLM
Apr 2	✓ CLM
Apr 8	✓ CLM
Apr 16	✓ CLM
Apr 22	✓ JCH
Apr 29	✓ CLM
May 3	✓ CLM
May 14	✓ CLM
May 20	✓ CLM
May 26	✓ JCH
May 31	✓ JCH
June 5	✓ JCH
June 11	✓ CLM

1993

9

DATE	INITIALS
June 17	✓ CLM
June 22	✓ JCH
June 28	✓ CLM
July 6	✓ CLM
July 14	✓ CLM
July 20	✓ CLM
July 24	✓ JCH
July 30	✓ JCH
Aug 5	✓ CLM
Aug 11	✓ CLM
Aug 19	✓ CLM
Aug 27	✓ CLM
Sept 7	✓ CLM
Sept 15	✓ CLM
Sept 24	✓ CLM

1993

10

DATE	INITIALS
Sept 30	✓ JCH
Oct 6	✓ CLM
Oct 13	✓ CLM
Oct 20	✓ CLM
Oct 27	✓ CLM
Nov 4	✓ CLM
Nov 11	✓ CLM
Nov 17	✓ CLM
Nov 24	✓ CLM
Nov 30	✓ JCH
Dec 4	✓ CLM
Dec 11	✓ CLM
Dec 21	✓ CLM
Dec 27	✓ CLM

1994

DATE	WET/DRO	INITIALS
1-1-94	✓	JCH
1-9-94	L	CLM
1-17-94	✓	CLM
1-22-94	✓	CLM
1-30-94	✓	CLM
2-5-94	✓	CLM
2-12-94	✓	CLM
2-19-94	✓	CLM
2-27-94	✓	CLM
2-28-94	✓	JCH
3-9-94	✓	CLM
3-19-94	✓	CLM
3-23-94	✓	CLM
3-31-94	✓	JCH
4-7-94	✓	CEM

1994

DATE	WET/DRO	INITIALS
4-16-94	✓	CLM
4-22-94	✓	CLM
4-30-94	✓	CLM
5-6-94	✓	CLM
5-14-94	✓	CLM
5-20-94	✓	CLM
5-27-94	✓	CLM
5-31-94	✓	JCH
6-6-94	✓	CLM
6-11-94	✓	CLM
6-15-94	✓	JCH
6-19-94	✓	JCH
6-25-94	✓	CLM
7-6-94	✓	CLM
7-12-94	✓	CLM
7-21-94	✓	CLM

1994

DATE	WET/DRO	INITIALS
7-29-94	✓	CLM
8-4-94	✓	CLM
8-12-94	✓	CLM
8-26-94	✓	CLM
8-26-94	✓	CLM
9-2-94	✓	CLM
9-9-94	✓	CLM
9-15-94	✓	CLM
9-21-94	✓	CLM
9-27-94	✓	CLM
10-4-94	✓	CLM
10-11-94	✓	CLM
10-21-94	✓	CLM
10-28-94	✓	CLM
11-5-94	✓	CLM
11-12-94	✓	CLM

1994

DATE	WET/DRO	INITIALS
11-19-94	✓	CLM
11-27-94	✓	CLM
12-5-94	✓	CLM
12-12-94	✓	CLM
12-20-94	✓	CLM
12-27-94	✓	CLM

1995

DATE	WET/DRO	INITIALS
1-4-95	✓	CLM
1-12-95	✓	CLM
1-18-95	✓	CLM
1-25-95	✓	CLM
2-4-95	✓	CLM
2-13-95	✓	CLM
2-21-95	✓	CLM
2-27-95	✓	CLM
3-5-95	✓	CLM

<sup>13</sup>  
1995

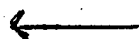
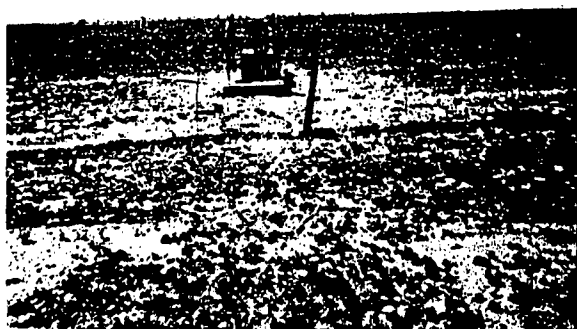
DATE	WET	DRY	INITIALS
3-10-95	V		CLM
3-14-95	V		CLM
3-31-95	L		QCH
4-7-95	V		CLM
4-15-95	V		CLM
4-23-95	L		CLM
4-30-95	V		QCH
5-7-95	V		CLM
5-13-95	V		CLM
5-20-95	L		CLM
5-27-95	V		CLM
6-7-95	V		CLM
6-13-95	V		CLM
6-22-95	V		CLM
6-30-95	V		CLM

<sup>14</sup>  
1995

DATE	WET	DRY	INITIALS
7-4-95	V		CLM
7-15-95	V		CLM
7-22-95	V		CLM
8-2-95	V		CLM
8-10-95	V		CLM
8-22-95	V		CLM
8-29-95	V		CLM
9-6-95	V		CLM
9-13-95	V		CLM
9-20-95	V		CLM
9-28-95	V		CLM
10-5-95	V		CLM
10-12-95	V		CLM
10-20-95	V		CLM

<sup>15</sup>  
1995

DATE	WET	DRY	INITIALS
10-27-95	V		CLM
11-5-95	V		CLM
11-11-95	V		CLM
11-19-95	V		CLM

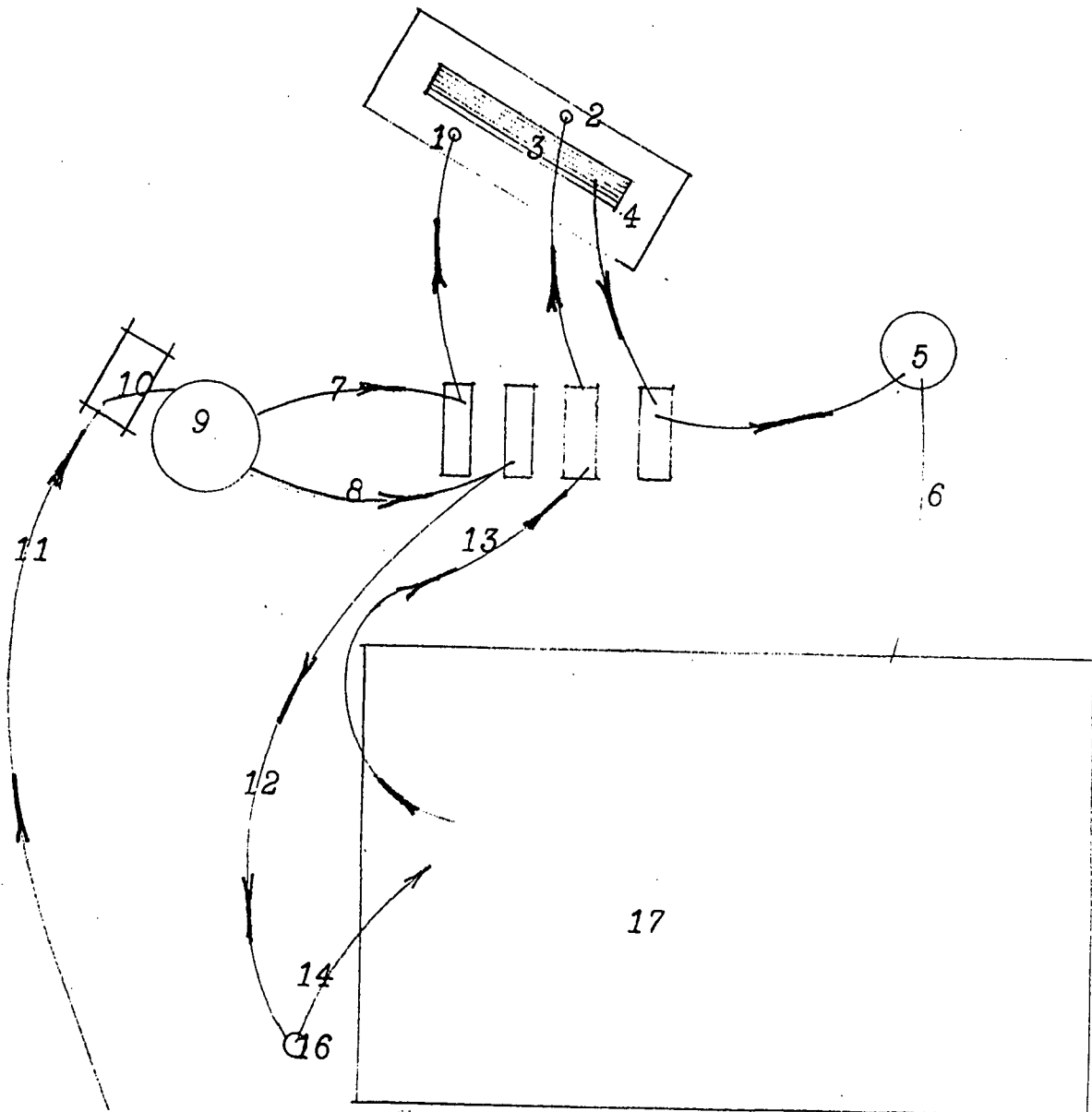


Fresh Water Well



Section Line Fence

# PIPING AND WATER FLOW DETAIL



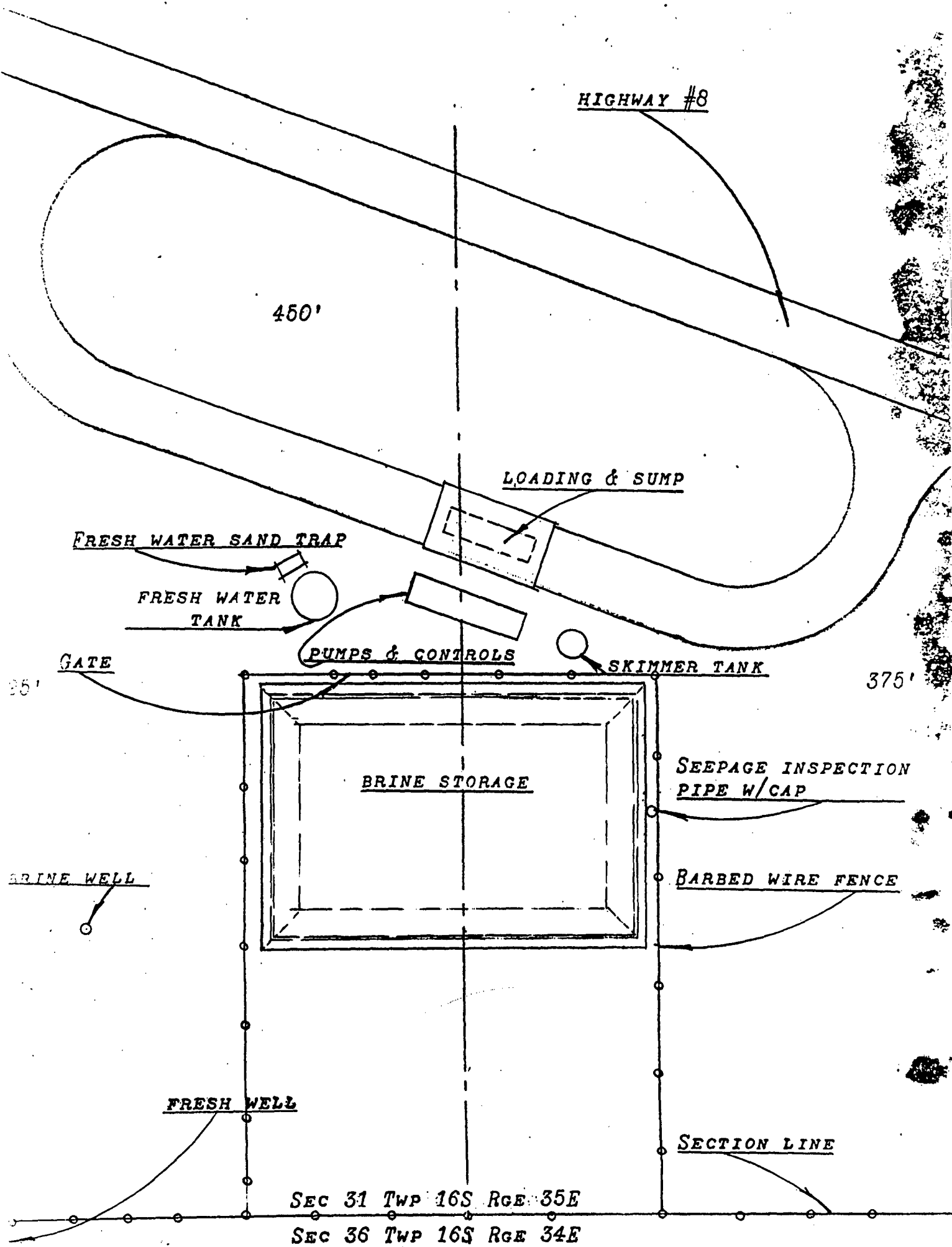
1. 4" Overhead Loading Pipe - Fresh Water
2. 4" Overhead Loading Pipe - Brine Water
3. 85 BBL. Underground Sump Tank
4. Concrete Loading Ramp
5. Elevated 210 BBL. Tank From Sump
6. 2" Outlet From Sump Tank for Disposal Truck
7. 6" Pipe to Fresh Water Loading Pump
8. 4" Pipe to Triplex Pump - Fresh Water
9. 500 BBL. Fresh Water Storage Tank
10. Fresh Water Sand Trap
11. 4" Pipe From Fresh Water Well
12. 2" Pipe From Triplex Pump to Brine Well
13. 6" Pipe From Brine Storage to Loading Pump
14. 2" Pipe Produced Brine to Storage
15. Fresh Water Well
16. Brine Well
17. Lined Open Brine Storage - 11,000 BBL.S



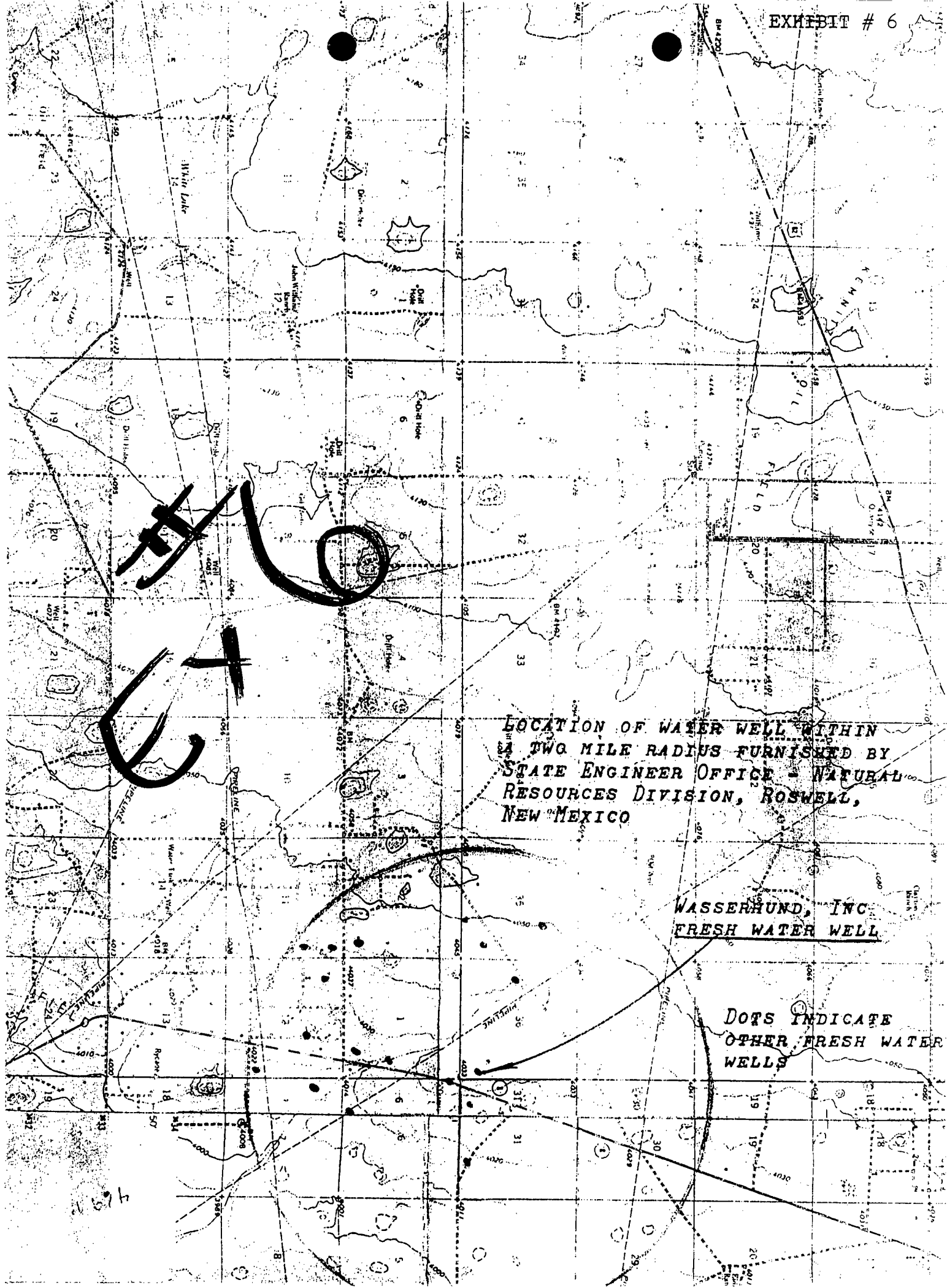
**THE REPRODUCTION OF  
THE  
FOLLOWING  
DOCUMENT ( S )  
CANNOT BE IMPROVED  
DUE TO  
THE CONDITION OF  
THE ORIGINAL**

NORTH

1" EQUALS 50'







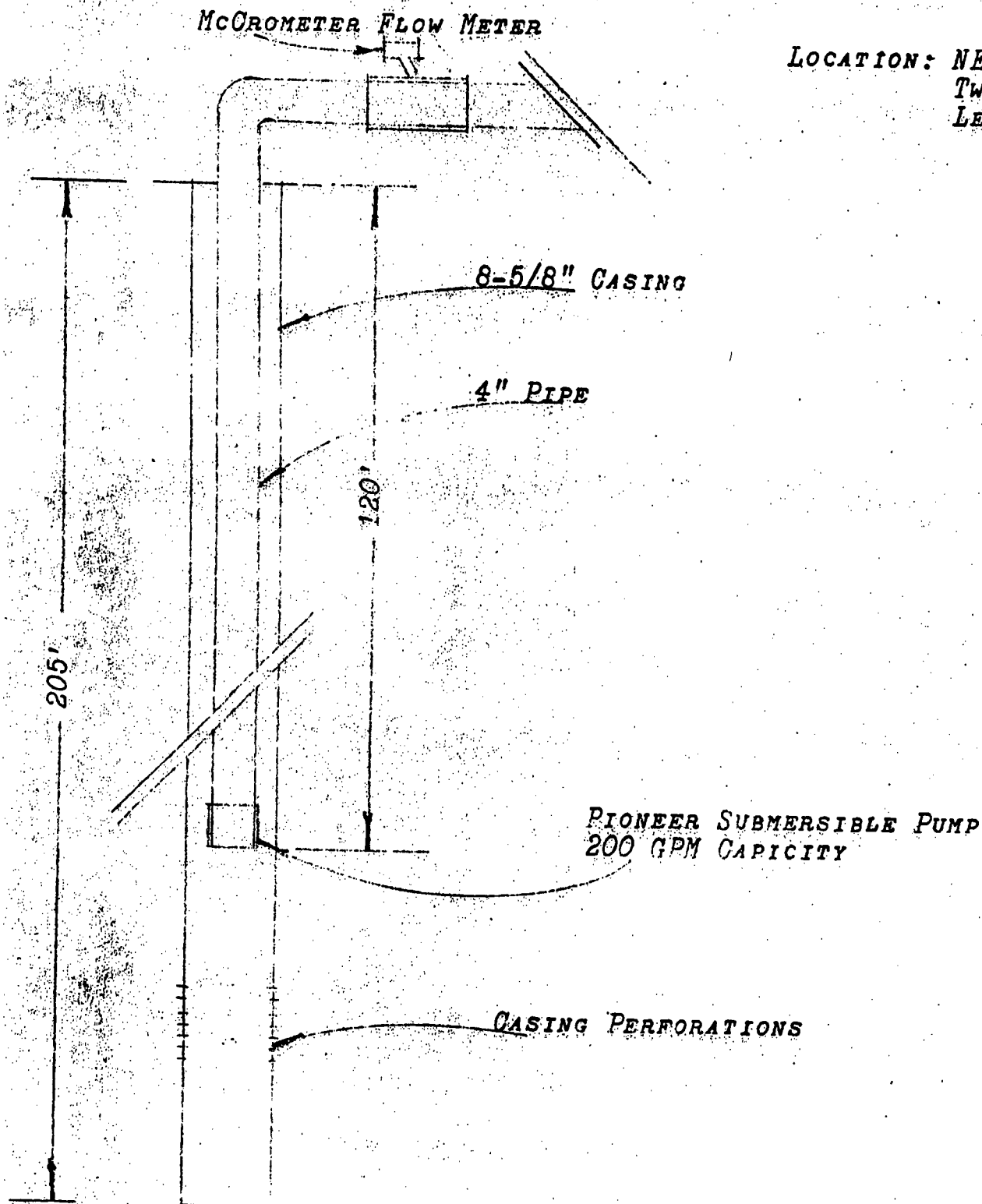
LOCATION OF WATER WELL WITHIN  
A TWO MILE RADIUS FURNISHED BY  
STATE ENGINEER OFFICE - NATURAL  
RESOURCES DIVISION, ROSWELL,  
NEW MEXICO

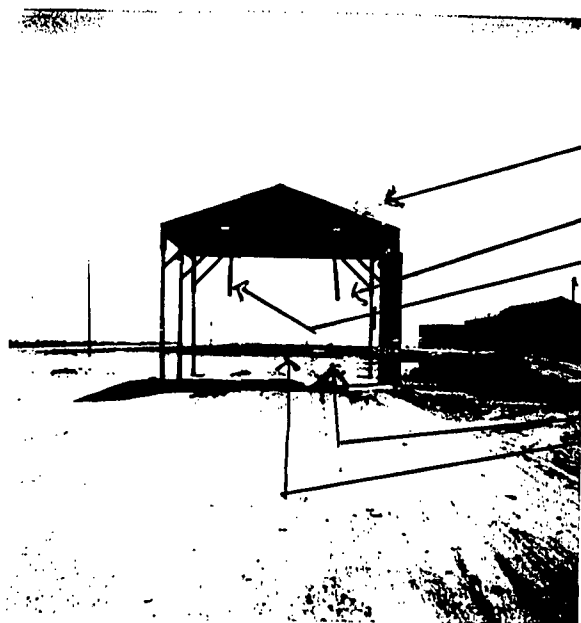
WASSERHUND, INC.  
FRESH WATER WELL

DOTS INDICATE  
OTHER FRESH WATER  
WELLS

FRESH WATER WELL  
EIDSON RANCH, INC - PERMITEE  
c/o J. E. HASELOFF - AGENT  
Box 249  
LOVINGTON, NEW MEXICO 88260

LOCATION: NE $\frac{1}{4}$ SE $\frac{1}{4}$  Sec 36  
TWP 16S RGE 34E  
LEA COUNTY





Loading Shed

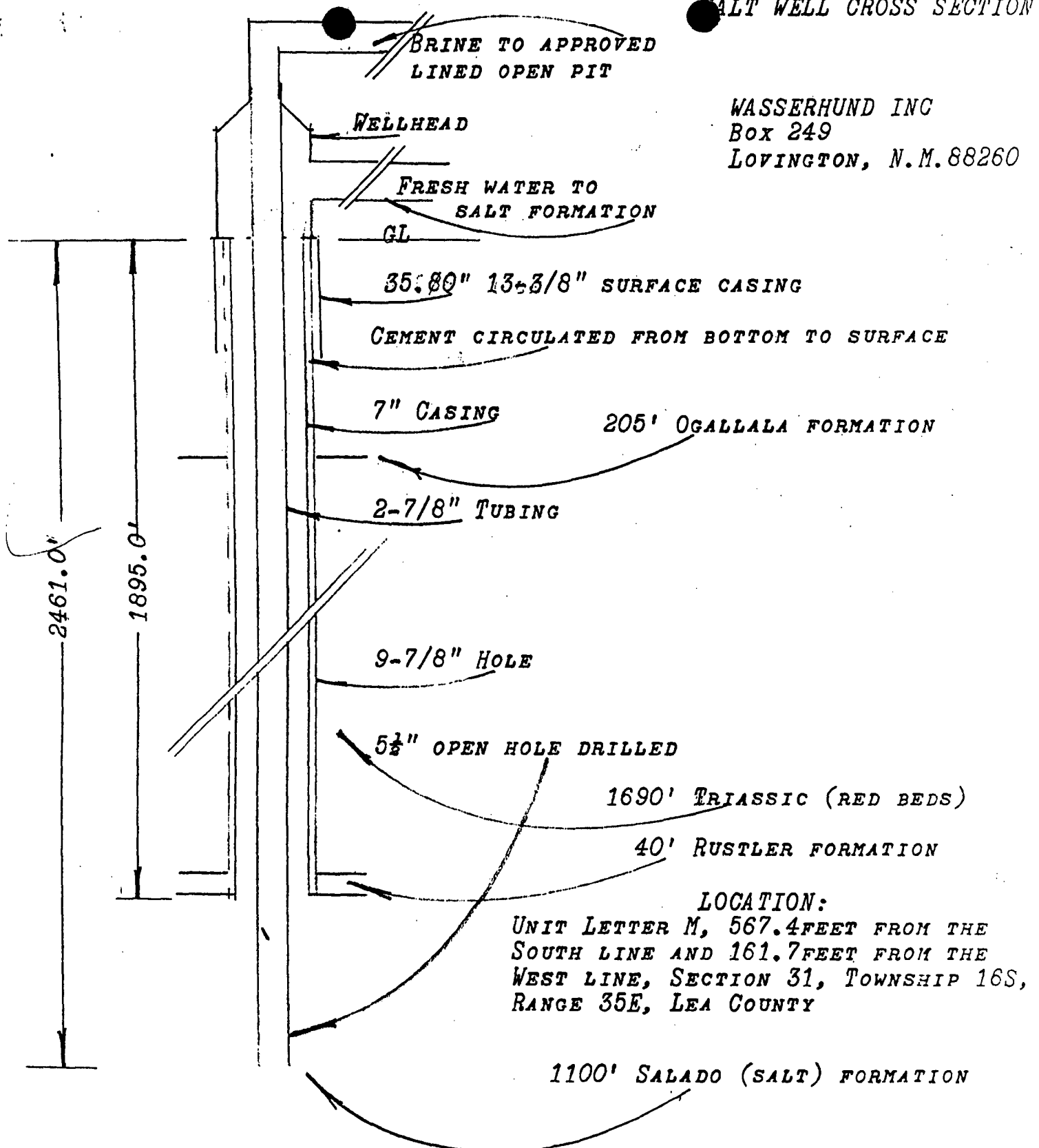
Fresh Water Loading Pipe

Brine Water Loading Pipe

Concrete Loading Ramp

Concrete Sump

## SALT WELL CROSS SECTION



APPLICATION FOR PERMIT  
TO UTILIZE A LINED EVAPORATION PIT

PERMIT NO. LP-H-101  
EXHIBIT # 10

New Mexico Oil Conservation Commission

Name of Operator WASSERBORN, INCORPORATED

Address 1613 South Loop Street, Lufkin, New Mexico 88600

Name of lease upon which evaporation pit will be located EDSON STATE #1

Location of evaporation pit: Unit Letter 4 Section 31 Township 16S Range 35E

Lease(s) which will be producing into pit EDSON STATE #1

Pools which will be producing into pit N/A

Analysis of disposal water: Chlorides N/A ppm. Total dissolved solids N/A ppm.  
(If more than one pool will be producing into pit, give water analysis for each pool.)

Quantity of water to be disposed of into this pit N/A barrels per day.

Water production from these same wells six months ago N/A bpd. Three months ago N/A bpd.  
(If more than one pool will be producing into pit, give water production data for each.)

Method of hydrocarbon entrapment to be employed: Settling tank N/A Header pit N/A

If settling tank is to be used, give size and number of barrels N/A

If header pit is to be used, give dimensions and depth N/A

Material for lining material N/A Thickness N/A

Diagram of Evaporation Pit ("A" and "B" on diagram) PLANS SUBMITTED

Number of square feet contained in above 9750

Depth (Top of levee to floor of pit--"D" on diagram) PLANS SUBMITTED

Material to be used as liner Durox 125 Thickness 30X

Does manufacturer recommend protection of material from direct sunlight? Yes No

If yes, what means will be provided to so protect the material?

Is material resistant to hydrocarbons? Yes X No

Is material resistant to acids and alkalis? Yes X No

Is material resistant to salts? Yes X No

Is material resistant to fungus? Yes X No

Is material not-resistant? Yes X No

Will joints in material be fabricated in the field? Yes No

If yes, describe method to be used in lining material

Attach manufacturer's brochure describing the qualities of the lining material.

Describe the leakage detection system to be used PLANS SUBMITTED

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and further, that the subject evaporation pit and appurtenances, when installed, will be kept in good repair, and that all due diligence will be exercised in keeping the surface of the water free of oil and other debris.

Name J. Wasserman Title PRESIDENT Date 18 JUN 80

Approved by Jerry Sutton Title Dist. L. Supv. Date JUN 20 1980

## PROOF OF COMPLETION OF WELL

Permit No. 1-222

- Name of Water Right Owner FIDSON RANCH INC.  
Mailing address C/O J. E. HASELOFF - 1613 SOUTH LOVE STREET  
City and State LOVINGTON, NEW MEXICO 88260
- Permit is for \_\_\_\_\_ from \_\_\_\_\_ ground water.  
(supplemental well, change location of well) (artesian or shallow)
- Description of well:  
Located in the NE 1/4 SE 1/4 of Sec. 36 Twp. 16S Rge. 34E N.M.P.M., or Tract No. \_\_\_\_\_  
of Map No. \_\_\_\_\_ of the \_\_\_\_\_ District; total depth 205 feet; is well cased yes;  
outside diameter of top casing (or hole, if uncased) 8 5/8 inches; if artesian, is well equipped with gate  
valve \_\_\_\_\_; date drilled 6-20 to 7-9 1980; Name of driller Glenn's Water Well Service
- Record of Pumping Test, if made (to be supplied by person or firm making test); Name and address of  
person making test, W-H-B, INC. - LOVINGTON, NEW MEXICO  
date of test 7-23 & 7-24 1980; depth to water before test, 85 feet BELOW land surface,  
(above, below)  
and pumping level during test, 120 feet; length of test, 24 hours; average discharge, 200 G.P.M.;  
specific capacity of well, 6.25 gals./min. per foot of drawdown.
- Permanent Pump Equipment:  
(a) Description of pump: Make PIONEER; Type SUBMERSIBLE  
size of discharge 4 inches; if turbine type, give size of column, \_\_\_\_\_ inches; diameter of  
bowls \_\_\_\_\_ inches; number of bowls \_\_\_\_\_; length of suction pipe \_\_\_\_\_ feet; total length of  
column, bowls and suction pipe \_\_\_\_\_ feet; if centrifugal type, give size of pump \_\_\_\_\_ inches;  
if other type, describe \_\_\_\_\_  
rated capacity of pump (if known), 200 G.P.M., at 3450 rev. per min., from a depth of 120 feet.  
(b) Description of power plant: Make ELECTRIC MOTOR; Type SUBMERSIBLE  
rated horsepower (if available) 15; type of drive connection to pump DIRECT  
(direct, gearhead, or belt)  
(c) Actual discharge of pump, 200 G.P.M., at 3450 rev. per min., from a depth of 120 feet;  
Date of test 7-23 & 7-24 1980.
- If reservoir is used, give approximate size: length \_\_\_\_\_ feet; width \_\_\_\_\_; depth \_\_\_\_\_.
- If above well replaced an old well to be plugged or abandoned, fill out the following: the well abandoned  
is located in the \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 of Sec. \_\_\_\_\_, Twp. \_\_\_\_\_, Rge. \_\_\_\_\_.  
Describe plugging method \_\_\_\_\_  
Name of plugging contractor \_\_\_\_\_
- Well Record filed with State Engineer's Office SEE DRILLERS REPORT Yes  
(Yes or No)

J.E. HASELOFF, affirm that the foregoing statements are true to the best of my knowledge  
and belief and that I am the AGENT FOR owner and holder of said water right.  
(sole, partial, agent for, etc.,)

FIDSON RANCH, INC., Permittee  
J.E. Haseloff

## STATEMENT OF STATE ENGINEER'S REPRESENTATIVE

I hereby certify that I have inspected the above well and find it constructed in accordance with the conditions  
of the permit. Note any exceptions None

Well was producing \_\_\_\_\_ gpm against a \_\_\_\_\_ head of \_\_\_\_\_ feet at \_\_\_\_\_ rpm.  
(measured) (estimated)

N/A

Old well has been \_\_\_\_\_  
(plugged) (capped) (retained for other rights)

By: Red Bessing  
Title: Los Alamos County Supervisor  
Date: October 9, 1980

STATE ENGINEER'S OFFICE  
ROSWELL, N.M.  
SEP 18 AM 8:05

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.F.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. 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.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <b>BRINE</b>	7. Unit Agreement Name
2. Name of Operator <b>WASSERHUND, INC</b>	8. Farm or Lease Name <b>EIDSON STATE</b>
3. Address of Operator <b>1613 SOUTH LOVE STREET, LOVINGTON, N.M. 88260</b>	9. Well No. <b>1</b>
4. Location of Well UNIT LETTER <b>M</b> <b>567.4</b> FEET FROM THE <b>SOUTH</b> LINE AND <b>161.7</b> FEET FROM THE <b>WEST</b> LINE, SECTION <b>31</b> TOWNSHIP <b>16 S</b> RANGE <b>35 E</b> NMPM.	10. Field and Pool, or Wildcat
15. Elevation (Show whether DF, RT, GR, etc.)	12. County <b>LEA</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <b>DRILLED FOR SALT</b> <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>

17. 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.

**9-7/8" HOLE**  
COMMENCED ROTARY DRILLING 21AUG80 - COMPLETED ROTARY DRILLING 23AUG80  
SET 35.80' 13-3/8" SURFACE CASING - RAN 50 JTS 7" 32# & 35# USED  
TESTED CASING SET AT 1895.0' - CEMENTED WITH 265 SKS CLASS "C"  
CEMENT, 570 SKS HALLIBURTON LIGHT CEMENT CONTAINING 4560# SALT MIXED  
8# W/570, 142# FLOCELE MIXED 2# W/570, AND 5SKS CaCl MIXED 2% W/265 -  
PLUGGED DOWN AT 5:30 PM 23AUG80 - CIRCULATED ABOVE CEMENT FROM TOTAL  
DEPTH TO SURFACE - LET CEMENT SET 48 HRS - REQUIRED REVERSE UNIT TO  
DRILL OPEN HOLE INTO SALT FORMATION TO A TD OF 2555' - RAN 84 JTS  
2-7/8" 7.9# C-75 DSSHT TESTED USED TUBING TO 2461.0' - COMMENCED  
PUMPING FRESH WATER DOWN 7" CASING AND RETURNING 9.8# PER GALLON  
BRINE THROUGH 2-7/8" TUBING - BRINE BEING PUMPED INTO APPROVED  
LINED OPEN PIT

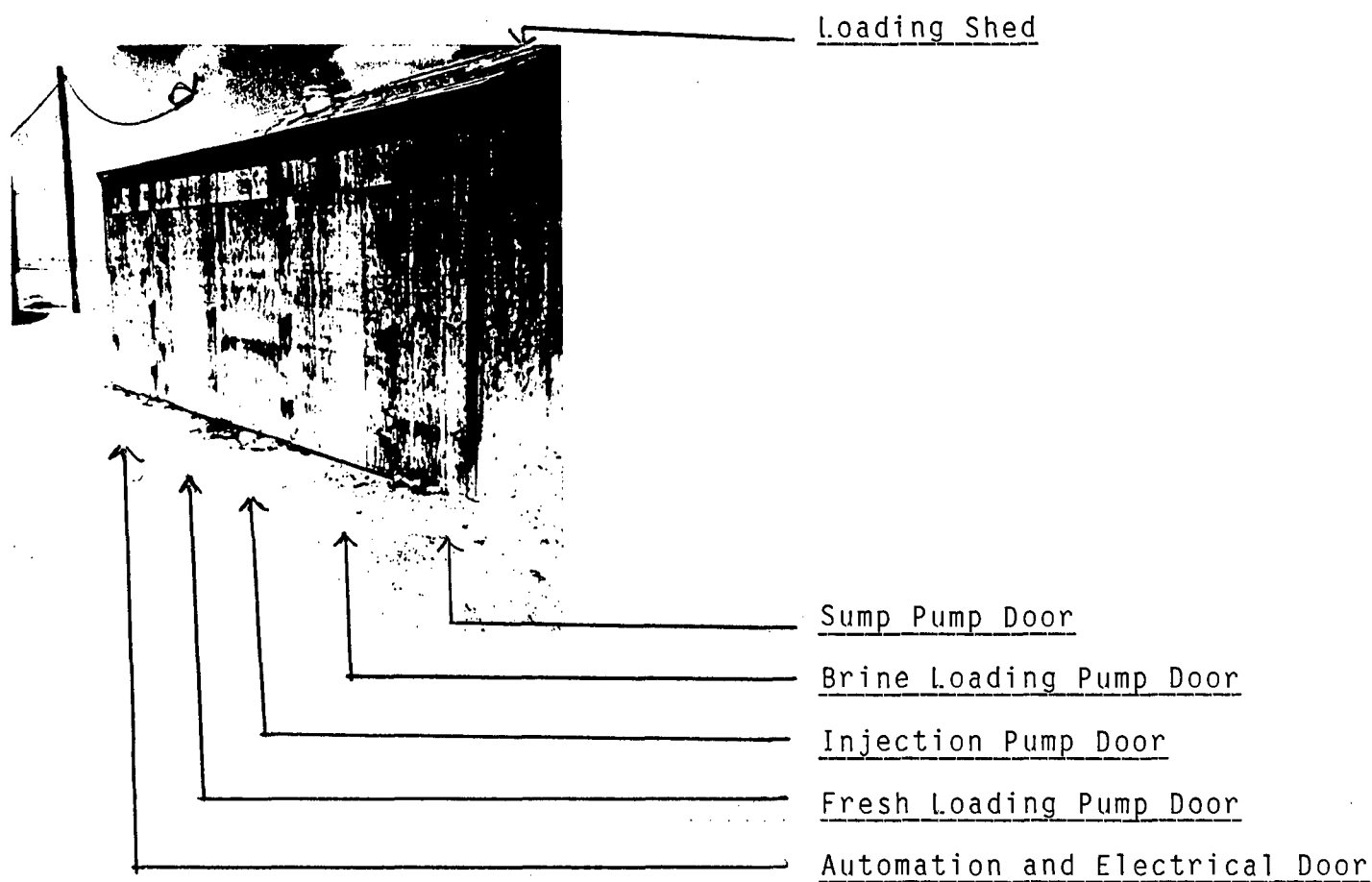
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

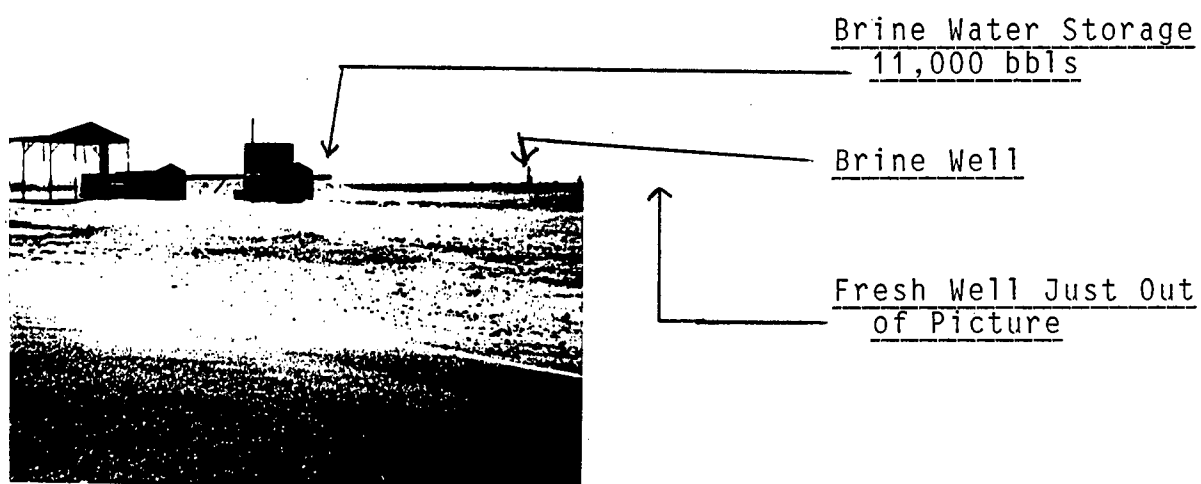
SIGNED WASSERHUND, INC TITLE PRESIDENT DATE 17SEP80

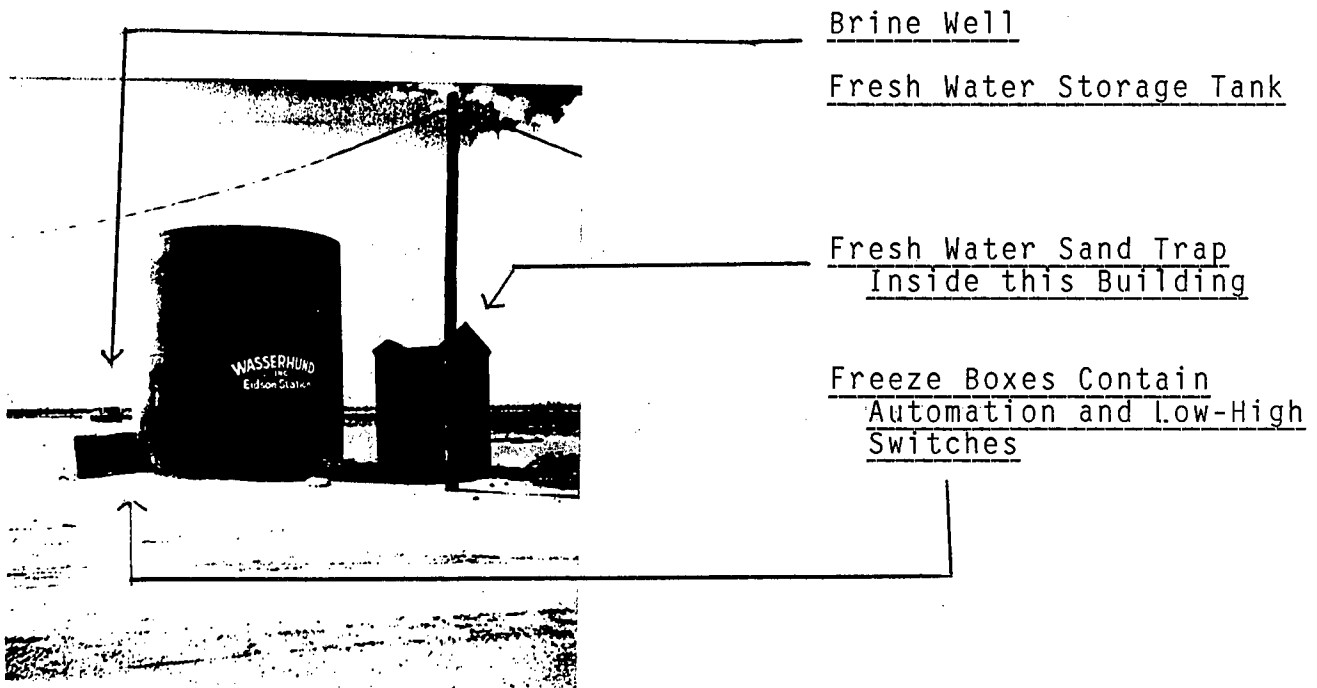
APPROVED BY JOEY SORIANO TITLE  DATE

CONDITIONS OF APPROVAL: BY ENV.





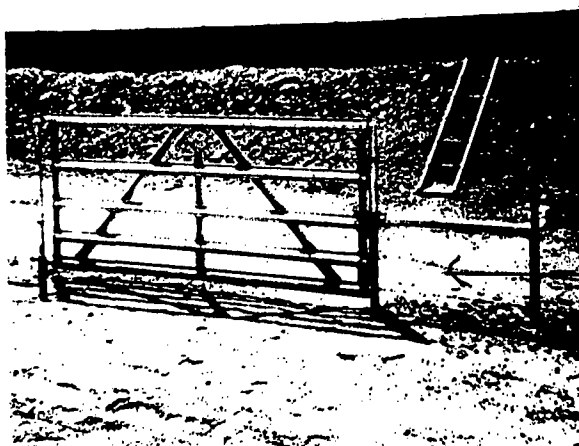






Key System W/Automatic  
Counters for Both Brine  
and Fresh Water

Brine Water Samples May  
Be Obtained Through This  
Gate and up Those Steps



New Mexico State Highway # 238 (Prior # 8)



Fresh Water Loading Pipe

Brine Water Loading Pipe

Concrete Loading Ramp

Concrete Sump



Elevated 210 Barrel Holding  
Tank From Sump Tank



← Brine Storage Liner

← Produced Brine Water From  
Salt Section

← Brine Loading Pump Suction





Brine Storage

Earth Dike

Barbed Wire Fence

Monitor well Inspection  
Pipe

# The Santa Fe New Mexican

Since 1849. We Read You.

96 JAN 27 AM 8 52

NEW MEXICO OIL CONSERVATION DIVISION  
ATTN: SALLY MARTINEZ  
P.O. BOX 6429  
SANTA FE, N.M. 87505-6429

AD NUMBER: 458214

ACCOUNT: 56689

LEGAL NO: 58906

P.O. #: 96199002997

164 LINES once at \$ 65.60

Affidavits: 5.25

Tax: 4.43

Total: \$ 75.28

## 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, 2040 South Pacheco, Santa Fe, New Mexico, 87505, Telephone (505) 827-7131:

(BW-004) - Wasserhund Inc., J.E. Hasseloff, President, P.O. Box 249, Lovington, New Mexico, 88260 has submitted an application for renewal of its previously approved discharge plan for its brine well facility. The brine extraction facility is located in the SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 313,000 mg/l. Ground water most likely to be affected by any accidental discharge is at a depth of approximately 120 feet and has a total dissolved solids content of approximately 325 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may

obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plans 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 shall 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 9th of January, 1996.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

Legal #58906

Pub. January 16, 1996

## AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO  
COUNTY OF SANTA FE

I, BETSY PERNER being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper 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 # 58906 a copy of which is hereto attached was published in said newspaper once each week for one consecutive week(s) and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 16th day of JANUARY 1996 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/

Betsy Perner  
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this  
16th day of JANUARY A.D., 1996.



OFFICIAL SEAL

LAURA E. HARDING

NOTARY PUBLIC -- STATE OF NEW MEXICO

MY COMMISSION EXPIRES

11/23/99

Laura E. Harding

# 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**

~~XXXXXXXXXXXX~~ in the  
~~XXXXXXXXXXXX~~ Court of Lea  
~~XXXXXXXXXXXX~~ was published in a regular and  
entire issue of THE LOVINGTON DAILY LEADER and  
not in any supplement thereof, ~~XXXXXXXXXXXX~~  
~~XXXXXXXXXXXX~~ for **one (1) day**  
~~XXXXXXXXXXXX~~ consecutive weeks, beginning with the issue of  
**January 17** 19**96**  
and ending with the issue of  
**January 17** 19**96**

And that the cost of publishing said notice is the  
sum of \$ **43.20**  
which sum has been (Paid) ~~XXXXXX~~ as Court Costs

*Joyce Clemens*  
Subscribed and sworn to before me this **17th**  
day of **January** 19**96**  
*John Serier*  
Notary Public, Lea County, New Mexico  
My Commission Expires **Sept. 28** 19**98**

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, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(BW-904) - Wasserhund Inc., J.E. Hasseloff, President, P.O. Box 249, Lovington, New Mexico, 88260 has submitted an application for renewal of its previously approved discharge plan for its brine well facility. The brine extraction facility is located in the SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 313,000 mg/l. Ground water most likely to be affected by any accidental discharge is at a depth of approximately 120 feet and has a total dissolved solids content of approximately 325 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 9th day of January 1996.

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

SEAL  
Published in the Lovington Daily Leader January 17, 1996.

OIL CONSERVATION DIVISION  
RECEIVED

96 JAN 19 AM 8 52

NOTICE OF PUBLICATION

RECEIVED

JAN 12 1996  
1122  
USFWS - NMESO

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, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(BW-004) - Wasserhund Inc., J.E. Hasseloff, President, P.O. Box 249, Lovington, New Mexico, 88260 has submitted an application for renewal of its previously approved discharge plan for its brine well facility. The brine extraction facility is located in the SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 313,000 mg/l. Ground water most likely to be affected by any accidental discharge is at a depth of approximately 120 feet and has a total dissolved solids content of approximately 325 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 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 9th day of January 1996.

**NO EFFECT FINDING**

The described action will have no effect on listed species, wetlands, or other important wildlife resources.

Date January 17, 1995

SEAL  
Consultation # GW960CD-1

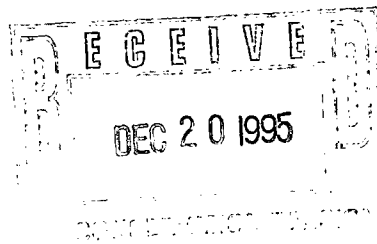
Approved by R. Mark Wilson (Acting)

U.S. FISH and WILDLIFE SERVICE  
NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE  
ALBUQUERQUE, NEW MEXICO

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY, Director

December 18, 1995



Mr. Mark Ashley  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

SUBJECT: Wasserhund Inc. BW-004

Dear Mark:

Find enclosed application for discharge plan renewal for Wasserhund Inc., BW-004 Brine facility. Also enclosed is check for filing fee.

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

Have a Happy Holiday.

Sinnccerely,

A handwritten signature in cursive script that reads "Eddie W. Seay".

Eddie W. Seay, Agent  
601 W. Illinois  
Hobbbs, NM 88240  
(505)392-2236

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. [REDACTED] dated 12/15/95  
or cash received on 12/20/95 in the amount of \$ 50.00  
from Wasserhund Inc  
for Brine well BW-004

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
(Filing Name) (DP No.)

Submitted to ASD by: RC Anderson Date: 1/16/96

Received in ASD by: Angela Horroca Date: 1-17-96

Filing Fee ☒ New Facility \_\_\_\_\_ Renewal \_\_\_\_\_

Modification \_\_\_\_\_ Other \_\_\_\_\_  
(specify)

Organization Code 521.07 Applicable FY 96

To be deposited in the Water Quality Management Fund.

Full Payment \_\_\_\_\_ or Annual Increment \_\_\_\_\_

WASSERHUND INC.

P. O. BOX 249 396-3128  
LOVINGTON, NM 88260

95-108/1122  
6

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

Fifty and No/100 ----- DOLLARS

THIS CHECK IS DELIVERED IN CONNECTION WITH THE FOLLOWING ACCOUNTS.

filing fee			
Discharge Plan BW-004			

[Signature]

Western  
Commerce  
Bank  
Lovington, NM



January 11, 1996

**LOVINGTON DAILY LEADER**  
**P. O. Box 1717**  
**Lovington, New Mexico 88260**

**RE: NOTICE OF PUBLICATION**

**ATTN: ADVERTISING MANAGER**

*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 January 18, 1996.*

*Sincerely,*

**Sally E. Martinez**  
**Administrative Secretary**

**Attachment**

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

**2040 South Pacheco**  
Office of the Secretary  
827-5950  
Administrative Services  
827-5925  
Energy Conservation & Management  
827-5900  
Mining and Minerals  
827-5970  
Oil Conservation  
827-7121

January 11, 1996

NEW MEXICAN  
202 E. Marcy  
Santa Fe, New Mexico 87501

RE: NOTICE OF PUBLICATION

PO #96-199-002997

ATTN: BETSY PERNER

Dear Sir/Madam:

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

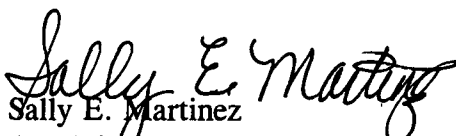
Immediately upon completion of publication, please send the following to this office:

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 on January 16, 1996.

Sincerely,

  
Sally E. Martinez  
Administrative Secretary

Attachment



## 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

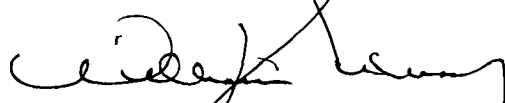
**(BW-004) - Wasserhund Inc., J.E. Hasseloff, President, P.O. Box 249, Lovington, New Mexico, 88260 has submitted an application for renewal of its previously approved discharge plan for its brine well facility. The brine extraction facility is located in the SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 313,000 mg/l. Ground water most likely to be affected by any accidental discharge is at a depth of approximately 120 feet and has a total dissolved solids content of approximately 325 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.**

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 9th day of January 1996.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY, Director

S E A L

## NOTICE OF PUBLICATION

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

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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 4:00 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 9th day of January 1996.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY, Director

S E A L

OIL CONSERVATION DIVISION

December 8, 1995

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-765-963-907**

Mr. J. E. Haseloff  
Wasserhund Incorporated  
10135 Love Street  
Lovington, New Mexico 88260

**RE: Discharge Plan BW-004 Renewal**  
**Wasserhund Incorporated**  
**Eidson Brine Station**  
**Lea County, New Mexico**

Dear Mr. Haseloff:

**On June 11, 1996**, the groundwater discharge plan, BW-004, for the Wasserhund Incorporated Eidson Brine Station located in SW/4 SW/4 of Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico, **will expire**. The plan 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 for a period of five years.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operation, you must renew your discharge plan. **If Wasserhund Incorporated submits an application for renewal at least 120 days before the discharge plan expires (on or before February 11, 1996), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether you have made, or intend to make, any changes in your system, and if so, please include these modifications in your application for renewal.

The discharge plan renewal application for the **Eidson Brine Station** is subject to the WQCC Regulations 3114 discharge plan fee. 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 for Brine Extraction Facilities.

Mr. J.E. Haseloff  
December 8, 1995  
Page 2

The \$50 dollar 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 - with the first payment due the at the time of approval. Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

Please submit the original and one copy to the OCD Santa Fe Office and one copy to the OCD nowhere District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.**

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

Sincerely,



Roger C. Anderson  
Environmental Bureau Chief

RCA/mwa

xc: OCD Hobbs Office

Z 765 962 907



**Receipt for  
Certified Mail**

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

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

PS Form 3800, March 1993

OIL CONSERVATION DIVISION

July 20, 1995

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-765-962-744**

Mr. J. E. Haseloff  
Wasserhund Incorporated  
10135 Love Street  
Lovington, New Mexico 88260

**RE: Discharge Plan BW-004 Renewal**  
**Wasserhund Incorporated**  
**Eidson Brine Station**  
**Lea County, New Mexico**

Dear Mr. Haseloff:

On December 18, 1982, the groundwater discharge plan, BW-004 (formerly GWB-1 and DP-321) for the Eidson Brine Station located in the SW/4 SW/4 of Section 31, Township 16 South, Range 35 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 for a period of five years, and was subsequently renewed on June 11, 1991 by the Director of the OCD. The current approval will expire on June 11, 1996 and you should submit an application for renewal six months before this date.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operation, you must renew your discharge plan. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several months. Please indicate whether you have made, or intend to make, any changes in you system, and if so, please include these modifications in your application for renewal.

Mr. J.E. Haseloff  
July 20, 1995  
Page 2

To assist you in preparation of your application, I have enclosed an application form and a copy of the OCD's Guidelines for the Preparation of Discharge Plans at Brine Extraction Facilities and a copy of the WQCC regulations. Please submit the original and one copy to the OCD Santa Fe Office and one copy to the OCD Hobbs District Office. Note that the completed and signed application form must be submitted with your discharge plan renewal request.


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

The fifty (50) dollar 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.

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

Sincerely,

  
Roger C. Anderson  
Environmental Bureau Chief

RCA/mwa

xc: OCD Hobbs Office

Z 765 962 744



**Receipt for  
Certified Mail**

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

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

PS Form 3800, March 1993

STATE OF NEW MEXICO  
NMOCD District I

INTER-OFFICE MEMO

To file: Wasserhund, Inc-Eidson St. DP# BW-04

Date: August 23, 1994

Time: 9:30 am

Telephone call: \_\_\_\_\_ Meeting: \_\_\_\_\_ Other: X On site visit

Person called or attending:

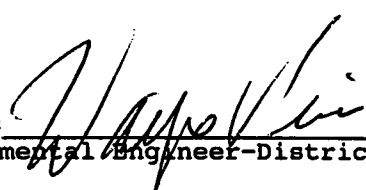
REFERENCE: Wasserhaund Brine St.  
Hyw 8, 4 mi nw of Buckeye NM  
31-16-35

Subject: Site Inspection

Comments:

Brine Station looks good, no apparent leaks. Tanks not leaking, Brine pond liner looked good. Could not inspect brine pump or well locked up in building.

Did not see sign marking well head with legals on it.

Wayne Price   
NMOCD Environmental Engineer-District I

cc: CRIS FUSTIERE

OIL CONSERVATION DIVISION  
RECEIVED

'93 JUN 1 AM 9 44

May 26, 1993

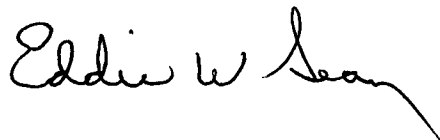
Ms. Kathy Brown  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

Dear Kathy:

Please find enclosed information, as we discussed, on  
Wasserhund, Inc. Brine Well, Lea Co., NM.

If I can be of further assistance or you need additional  
information, please call.

Sincerely,



Eddie W. Seay, Agent  
601 W. Illinois  
Hobbs, NM 88240  
(505)392-2236



1991

DATE	NETDR	INITIALS
July 17	V	CLM
July 21	L	JCH
July 31	V	CLM
Aug. 5	V	CLM
Aug 14	V	CLM
AUG 20	V	JCH
Aug 27	V	CLM
Sept 4	V	CLM
Sept 10	V	CLM
Sept 19	V	CLM
Sept 24	V	CLM
Oct 3	V	CLM
Oct 8	V	CLM
Oct 11	V	CLM
Oct 21	V	CLM
Oct 30	V	CLM

1991

DATE	NETDR	INITIALS
APR 12	V	CLM
APR 9	V	JCH
APR 16	V	CLM
APR 25	V	CLM
MAY 2	V	CLM
MAY 10	V	CLM
MAY 16	V	CLM
MAY 23	V	CLM
MAY 29	V	CLM
June 5	V	CLM
June 13	V	CLM
June 22	V	CLM
June 26	V	CLM
July 3	V	CLM
July 9	V	CLM

1992

DATE	NETDR	INITIALS
Feb 6	V	CLM
Feb 12	V	CLM
Feb 20	L	JCH
Feb 27	V	CLM
March 6	V	CLM
March 12	V	CLM
March 18	L	JCH
March 25	V	CLM
Apr 2	V	CLM
Apr 10	V	CLM
Apr 17	V	CLM
Apr 18	V	JCH
Apr 30	V	CLM
May 6	V	CLM
May 12	V	CLM

1991

1992

DATE	NETDR	INITIALS
Nov 6	V	CLM
Nov 13	V	CLM
Nov 21	V	CLM
Nov 27	V	CLM
Dec 5	V	CLM
Dec 10	V	CLM
Dec 19	V	CLM
Dec 27	V	CLM
DEC 30	V	JCH
1992		
Jan 5	V	CLM
Jan 11	V	CLM
Jan 18	V	CLM
Jan 24	V	CLM
Jan 31	V	CLM
Feb 2	L	JCH

1992

DATE	NET DR	INITIALS
Sept 4	V	CLM
Sept 11	V	CLM
Sept 18	V	CLM
Sept 25	V	CLM
Oct 2	V	CLM
Oct 10	V	CLM
Oct 16	V	CLM
Oct 23	C	JCH
Oct 30	V	CLM
Nov 5	V	CLM
Nov 12	V	CLM
Nov 18	V	CLM
Nov 26	V	CLM
Dec 2	V	CLM
Dec 10	V	CLM

1992

DATE	NET DR	INITIALS
May 21	V	CLM
May 29	V	CLM
June 5	V	CLM
June 10	V	CLM
June 19	V	CLM
June 24	V	CLM
July 1	V	CLM
July 9	V	CLM
July 18	C	JCH
July 21	V	CLM
July 30	V	CLM
Aug 6	V	CLM
Aug 14	V	CLM
Aug 21	C	JCH
Aug 27	V	CLM

1993

DATE	NET DR	INITIALS
March 11	V	CLM
March 19	V	CLM
March 25	V	CLM
Apr 2	V	CLM
Apr 8	V	CLM
Apr 16	V	CLM
Apr 22	C	JCH
Apr 29	V	CLM
May 5	V	CLM
May 14	V	CLM
May 20	V	CLM
May 26	V	CLM

1992

1993

DATE	NET DR	INITIALS
Dec 16	V	CLM
Dec 23	V	CLM
Dec 30	V	CLM
1993		
Jan 7	V	CLM
Jan 13	V	CLM
Jan 22	V	CLM
Jan 28	V	CLM
Feb 6	V	CLM
Feb 13	C	JCH
Feb 19	V	CLM
Feb 26	V	CLM
Mar 5	V	CLM
March 8	C	JCH

OIL CONSERVATION DIVISION  
RECEIVED

WASSERHUND, INCORPORATED  
Post Office Box 249  
921 South Love Street  
Lovington, New Mexico 88260

'91 JUL 12 AM 8 42

10 July 1991

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
Post Office Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87504

Re: Renewal Discharge  
Plan BW-4


Mr. David G. Boyer, Hydrogeologist  
Environmental Bureau Chief

Reference Registered Letter Dated March 18, 1991

3. Mechanical Integrity Testing

Wasserhund, Incorporated commits to OCD Guidelines for  
~~open~~ hole testing within two (2) years from 6 May 1991. A  
pressure test isolating the casing from the formation using either  
a bridge plug or packer will be conducted by 6 May 1993.

Sincerely,

  
J. E. Haseloff  
President

JEH/fh

# Memo

*From*

**KATHY BROWN**  
*Geologist*

*To 5-21-91*

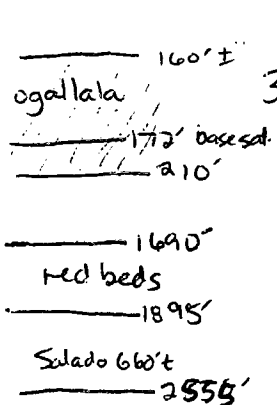
*Talked to Pete Haseloff.*

*Told him need commitment for casing isolated pressure test. His letter of May 6, 1991 committed to open-hole test. He said he was under the right impression of needing to commit to casing-isolated pressure test, but his letter was not worded correctly. Said he would submit a new letter, but would not be back to Hobbs area until several weeks. Told him that was OK, just send it as soon as you can.*

*KMB*

Wasserhund, Inc. (DP-321 exp 12-18-87)

- 1) Quarterly brine volumes: up-to-date, but have a large discrepancy in numbers (inj vs. prod.), needs to be addressed. Fresh water purchased not injected? Want injected at large disparity
- 2) Well: drilled 8-21-80, TD 2461' 13 $\frac{3}{8}$ " @ 36'/7" @ 1895'  
Tubing 2 $\frac{7}{8}$ " @ 2461'; max. inj. pressure 390 psi



- 3) Hydrology: 120' DTW in Ogallala (source of injectant).  
Confining layer @ 1690' - red beds, GL = 4047'  
120' groundwater has TDS 500 mg/l (5.687 EID)

- 4) Bond - Approved 3-14-90 by Director OCD.  
\$5000, Bond No. 01-0130-328-80

- 5) Site: In past, noted brine storage pond has problem with the wind pushing brine over walls (inc. freeboard, install windbrk) < 1' freeboard,

6) DPlan

- a) OCB 1-11; Report spills in 24 hr. vs 48 committed to
- b) Change EID commitments to OCD commitments
- c) las MIT on file 3-1-88, need new one for renewal
- ? d) buried lines addressed, jags & compo
- ? e) latest chem. analysis 4-87

3-28-88

- f) loading pad sump has auto float switch to pump to 180 vert. tank. Earlier gravity fed back to brine storage pond - assure that it's still not
- g) hi+low pressure switches on all lines
- h) ~~320~~ Storage Pit - monitored w/ seepage inspection pipe, single hypalon liner ++++ drainage system  
(H<sub>2</sub>O in? sampled?)
- ? i) oil pit next to loading rack <sup>(6-86)</sup> Still there?
- j) w

7) Roger - Brine (notes 11-29-89)

- a) curbing only necessary if spillage evident.
- b) fluid in monitor well, sampled 8911291545 (and 36000 @ 14 1/2

Pump sump dry; monitor it

Call Eddie & have witness pumping & sampling

8) Well File - yes, microfilm

9) 11,000 bbl storage pond for brine; committed to immediately repairing any leaks in response to EID letter.



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

May 28, 1991

RECEIVED

MAY 31 1991

OIL CONSERVATION DIVISION

Mr. William J. Lemay, Director  
New Mexico Energy, Minerals and  
Natural Resources Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

The U.S. Fish and Wildlife Service (Service) has reviewed the Public Notices dated April 24, 1991, regarding the effects of granting State of New Mexico groundwater discharge permits on fish, shellfish, and wildlife resources in New Mexico.

The Service has determined that there are no wetlands or other environmentally sensitive habitats that will be adversely affected by the following activities.

BW-1: Conoco Incorporated, Midland, Texas.

BW-4: Wasserhund Incorporated, Lovington, New Mexico.

The Service has determined that there may be risks to migratory birds from the proposed permitted activities listed below, and that nets or screens be erected over the tanks to prevent any migratory bird species (waterfowl, shorebirds, songbirds, or raptors) from gaining access to the washdown water and used oil. If a migratory bird should be killed by coming in contact with these fluids, a violation of the Migratory Bird Treaty Act will have occurred.

The proposed permittees are:

GW-61: Williams Field Services, Salt Lake City, Utah, Horse Canyon Compressor Station.

GW-62: Williams Field Services, Salt Lake City, Utah, Manzanares Compressor Station.

GW-63: Williams Field Services, Salt Lake City, Utah, Pump Mesa Compressor Station.

GW-64: Williams Field Services, Salt Lake City, Utah, Middle Mesa Compressor Station.

GW-77: Meridian Oil, Inc., Farmington, New Mexico, Middle Mesa Compressor Station.

If you have any questions, please call Richard Roy at (505) 883-7877.

Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Fowler-Propst", with a long horizontal flourish extending to the right.

Jennifer Fowler-Propst  
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico  
Director, New Mexico Energy, Minerals and Natural Resources Department,  
Forestry and Resources Conservation Division, Santa Fe, New Mexico  
Regional Administrator, U.S. Environmental Protection Agency, Dallas, Texas  
Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife  
Enhancement, Albuquerque, New Mexico



OIL CONSERVATION  
REC'D  
91 MAY 8 PM 1 46

WASSERHUND, INCORPORATED  
Post Office Box 249  
921 South Love Street  
Lovington, New Mexico 88260

6 MAY 1991

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
Post Office Box 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504

RE: RENEWAL DISCHARGE  
PLAN DP-321


MR DAVID G. BOYER, HYDROGEOLOGIST  
ENVIRONMENTAL BUREAU CHIEF

REFERENCE REGISTERED LETTER DATED MARCH 18, 1991.

3. MECHANICAL INTEGRITY TESTING

WASSERHUND, INCORPORATED COMMITS TO OCD GUIDELINES  
FOR OPEN HOLE TESTING WITHIN TWO (2) YEARS FROM THE  
DATE OF THIS LETTER.

Should be casing  
isolation pressure test.  
Will resubmit new  
commitment,  
KMB

SINCERELY,  
  
J. E. HASELOFF  
PRESIDENT

# Affidavit of Publication

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

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

That the notice which is hereto attached, entitled

Notice Of Publication

and numbered \_\_\_\_\_ in the

\_\_\_\_\_ Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of the week, for one (1)

consecutive weeks, beginning with the issue of \_\_\_\_\_

May 1, 1991

and ending with the issue of \_\_\_\_\_

May 1, 1991

And that the cost of publishing said notice is the sum of \$48.65

which sum has been (Paid) ~~as assessed~~ as Court Costs

Subscribed and sworn to before me this 7th

day of May, 1991

Mrs. Jean Sevier  
Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 1994

## 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, modification and amendment applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P. O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-68) - Continental Natural Gas, Inc., Terry Spencer, P. O. Box 21470, Tulsa, Oklahoma 74121, has amended the previously advertised discharge plan application for its proposed Eddy County Gas Processing Plant. The amendment changes the location from the NW/4 NE/4, Section 15, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico to the NW/4 SE/4 Section 10; Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. Approximately 460 gallons per day of process wastewater will be collected and stored in above ground steel tanks prior to disposal in an OCD permitted offsite commercial disposal facility. The total dissolved solids concentration of the wastewater will not be known until the plant begins operation. Groundwater most likely to be affected by any spill, leak or other accidental discharge to the surface is at a depth of approximately 30 feet with a total dissolved solids concentration of approximately 5000 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(BW-4) - Wasserhund Incorporated, J. E. Hasseloff, President, P. O. Box 249, Lovington, New Mexico, 88260, has submitted a renewal application for the previously approved discharge plan application for their insitu extraction brine well facility. The brine station is located in the SW/4, SW/4, Section 31, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected to an approximate depth of 2000 feet and brine is extracted with an average Total Dissolved Solids content of 300,000 mg/l. Groundwater most likely to be affected by any accidental discharge is at a depth of approximately 120 feet and has a total dissolved solids content of about 500 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(BW-1) - Conoco, Inc., Jerry W. Hoover, Regulatory Coordinator, 10 Delta Drive West, Midland, Texas 79705-4514, has submitted a discharge plan modification application for the previously approved discharge plan application for its Warren McKee brine extraction located in the SW/4, NW/4, Section 2, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico. The proposed modification is that the Warren McKee Brine Well No. 1, which has been temporarily abandoned for the past year, be returned to active status. Currently, the Warren McKee Brine Well No. 2 is the only active well and is supplying all of the brine used in the Warren McKee Waterflood. The proposed modification allows for the two wells to be operated either alternately or simultaneously in order to optimize brine production and minimize shut down time of the waterflood. Groundwater most likely to be affected by any accidental discharge to the surface is at a depth of 70 to 145 feet with a total dissolved solids concentration of 1150 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 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 April, 1991. To be published on or before May 1, 1991.

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

SEAL  
Published in the Lovington Leader May 1, 1991.

# Affidavit of Publication

No. 13521

STATE OF NEW MEXICO,

County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of

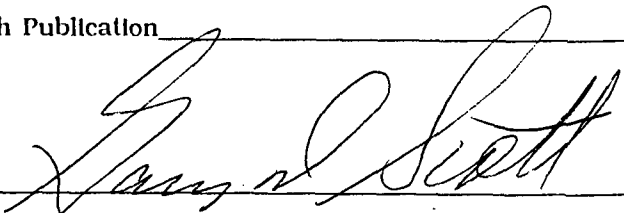
the state of New Mexico for 1 days consecutive weeks on the same day as follows:

First Publication May 1, 1991

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

  
Subscribed and sworn to before me this 6th day of May 19 91

Barbara Ann Beane  
Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1991

## 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

## Copy of Publication

renewal, modification and amendment applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

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OIL CONSERVATION DIVISION

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In 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 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 April, 1991.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
WILLIAM J. LEMAY, Director  
Journal: May 2, 1991

STATE OF NEW MEXICO  
County of Bernalillo

ss

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

for.....1.....times, the first publication being on the.....2.....day  
of.....May....., 1991, and the subsequent consecutive  
publications on....., 1991.

*Thomas J. Smithson*  
Sworn and subscribed to before me, a Notary Public in  
and for the County of Bernalillo and State of New  
Mexico, this.....2.....day of.....May....., 1991.

PRICE.....\$ 391.69.....

Statement to come at end of month.

12-18-91  
CLA-22-A (R-12/91)

ACCOUNT NUMBER.....C 81184.....

## **NOTICE OF PUBLICATION**

### **STATE OF NEW MEXICO**

#### **ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

#### **OIL CONSERVATION DIVISION**

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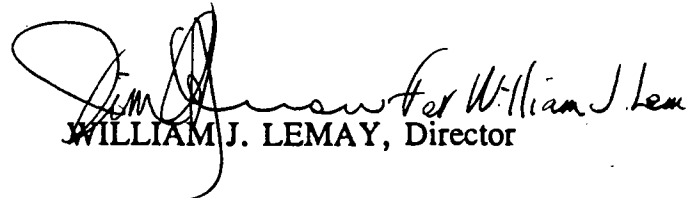
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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 24th day of April, 1991. To be published on or before May 1, 1991.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY, Director

S E A L

WASSERHUND, INCORPORATED  
Post Office Box 249  
921 South Love Street  
Lovington, New Mexico 88260

OIL CONSERVATION DIVISION  
RECEIVED

'91 APR 10 AM 8 48

7 April 1991

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
Post Office Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87504

RE: Renewal  
Discharge Plan  
DP-321

Mr. David G. Boyer, Hydrogeologist  
Environmental Bureau Chief

As per your registered letter dated March 18, 1991, I  
submit the following for the renewal of Discharge Plan DP-321.

1. Monitor Well:

- A. Well was swabbed dry and 24 hours later was found  
dry as operation was witnessed by Eddie Seay,  
OCD Hobbs Office.
- B. A record log book has been placed in the pump room  
and your instructions will be adhered to.

2. Brine Storage Pit:

No leaks.

3. Mechanical Integrity Testing

Witnessed chart recording attached. No pressured brine  
pipe lines exist in Wasserhund's operation.

ST 6 APR 1991

6T 6 AM 10 APR 1991

OIL CONSERVATION DIVISION  
RECEIVED

7 April 1991

4. Maximum Injection Pressure

As per OCD records, Hobbs Office, fracture of the salt section occurs between 850# and 1450#. Wasserhund injects at 220#, and has a Murphy Switch set at 500# for automatic shut off.

5. Transfer of Commitment


WQCC Rule 5-208 will be adhered to.

6. Closure Plan

Please refer to letter dated September 29, 1988, to New Mexico Health & Environment Department, Items 3 and 4.

This renewal of Discharge Plan DP-321 respectfully submitted.

Sincerely,



J. E. Haseloff

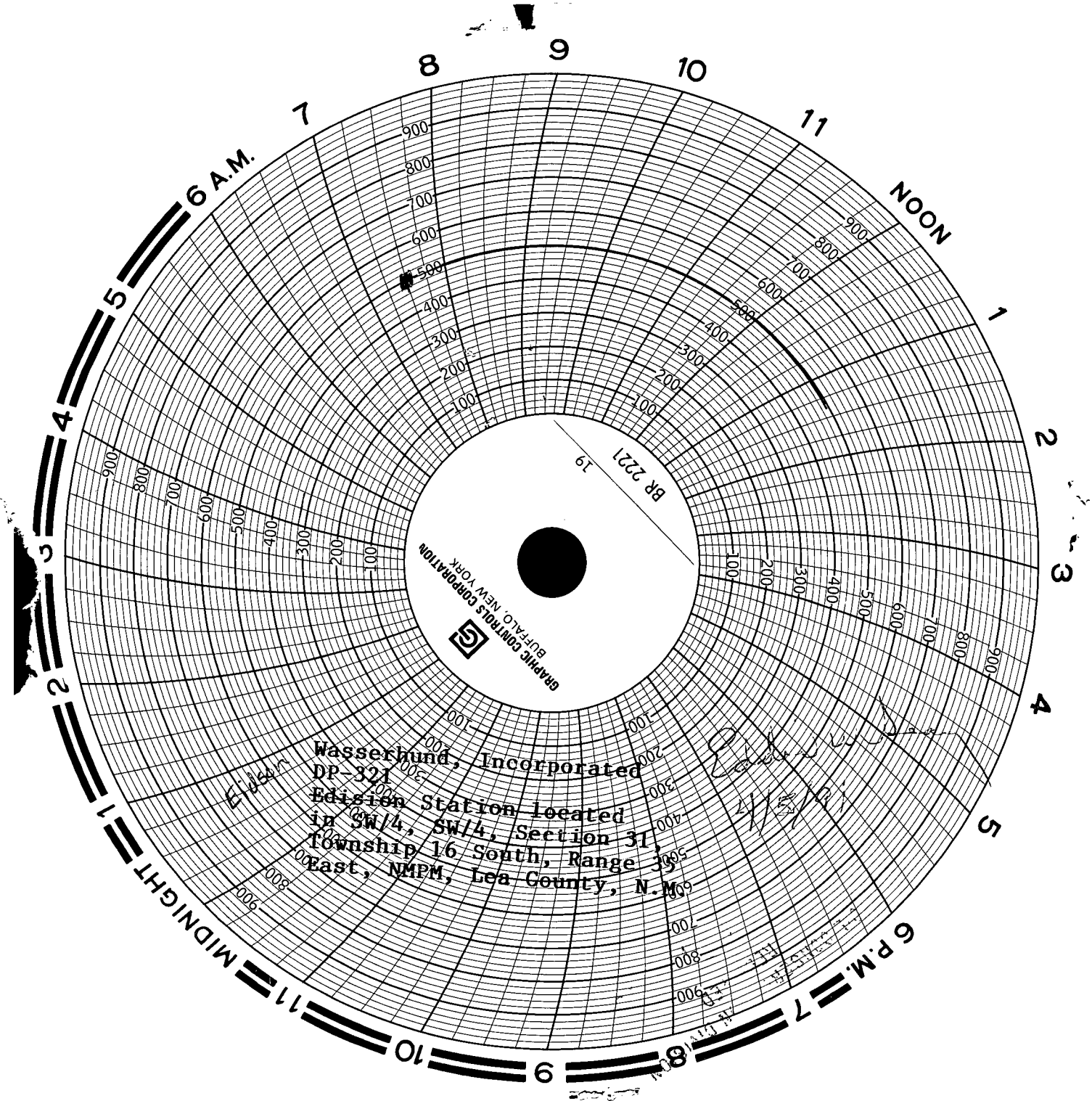
President

**Wasserhund, Incorporated**

JEH/fh

Enclosure





LAB NUMBER 20 ~~89-347~~  
DATE RECEIVED 12-01-89  
DATE REPORTED \_\_\_\_\_

REPORT TO: Mr. David G. Boyer  
NM Oil Conservation Div.  
P.O. Box 2088  
Santa Fe, NM 87504

User Code: 55430  
82235  
Subr Code: 260

Attention: \_\_\_\_\_

☒ Water ( ) Soil ( ) Sediment ( ) Vegetation ( ) Air Filter ( )  
1921

Sample Location WASSERHUND BRINE POND Sample # 8911291530

Purpose \_\_\_\_\_

Date Collected 11/29/89 Time 1530 Name Boyer

Remarks by Collector \_\_\_\_\_

Sample Preparation

( ) Filtered ☒ Non Filtered ☒ HNO<sub>3</sub> ( ) H<sub>2</sub>SO<sub>4</sub> ( ) \_\_\_\_\_

pH \_\_\_\_\_ Temp. \_\_\_\_\_

Conductivity 50000 umho Conductivity at 25°C \_\_\_\_\_ umho

ANALYSES REQUESTED

	Units	+	Counting Error	Date Analysed
<input checked="" type="checkbox"/> Gross Alpha (Rel to U 238)	_____	_____	_____	_____
<input checked="" type="checkbox"/> Gross Alpha (Rel to Am 241)	_____	_____	_____	_____
<input checked="" type="checkbox"/> Gross Beta	_____	_____	_____	_____
( ) Uranium 238	_____	_____	_____	_____
( ) Uranium 235	_____	_____	_____	_____
( ) Uranium 234	_____	_____	_____	_____
( ) Thorium 232	_____	_____	_____	_____
( ) Thorium 230	_____	_____	_____	_____
( ) Thorium 228	_____	_____	_____	_____
<input checked="" type="checkbox"/> Radium 226	_____	_____	_____	_____
<input checked="" type="checkbox"/> Radium 228	_____	_____	_____	_____
( ) Lead 210	_____	_____	_____	_____
( ) Polonium 210	_____	_____	_____	_____
( ) Radon 222	_____	_____	_____	_____
( ) Gamma Spectroscopy	_____	_____	_____	_____
( ) Other	_____	_____	_____	_____

REMARKS BY ANALYST \_\_\_\_\_

## SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud, NE

Albuquerque, NM 87106 [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

January 3, 1990

**ANALYTICAL REPORT**  
**SLD Accession No. RC-89-0347**Distribution

(■) Submitter

(※) SLD Files

To: Mr. David G. Boyer  
NM Oil Conservation Div.  
P. O. Box 2088  
Santa Fe, NM 87504

From: Radiochemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, NE  
Albuquerque, NM 87106

Re: A water sample submitted to this laboratory on December 1, 1989

## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 29-Nov-89	By: Boy . . .	Wasserhund Brine Pond
At: 15:30 hrs.	In/Near:	

## ANALYTICAL RESULTS

Analysis	Value	Sigma	D. Lmt.	Units	Analyst
G-Alpha w/ Am-241 ref.	50.00	100.00	250.00	pCi/L	Cress
G-Alpha w/ U -nat ref.	100.00	200.00	400.00	pCi/L	Cress
G-Beta w/ Cs-137 ref.	3500.00	250.00	250.00	pCi/L	Cress
G-Beta w/ Sr/Y90 ref.	3200.00	250.00	250.00	pCi/L	Cress
Ra-226, non-SDWA Mth'd	45.00	3.00	1.00	pCi/L	Cress
Ra-228, non-SDWA Mth'd	53.00	15.00		pCi/L	Bay
U -238, non-SDWA Mth'd	5.00	2.00		pCi/L	Lusk
U -234, non-SDWA Mth'd	4.00	2.00		pCi/L	Lusk
Th-230, non-SDWA Mth'd	0.60	2.00		pCi/L	Lusk

Notations & Comments:

Uncertainties, sigmas, are expressed as  $\pm$  one standard deviation, i.e. one standard error.

Small negative or positive values which are less than two(2) standard deviations should be interpreted as: including 'zero'; as 'not detected'; as 'less than the detection limit (<D. Lmt.)' when reported; or 'less than twice the standard deviation'.

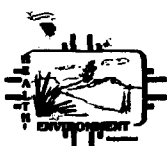
Reviewed By:

Loren A. Berge

Loren A. Berge, Ph.D. 01/03/90

Supervisor, Radiochemistry Section

90 JAN 5 AM 10 54  
RECEIVED  
OIL CONSERVATION DIVISION



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

859  
WNN

**GENERAL WATER CHEMISTRY  
and NITROGEN ANALYSIS**

DATE RECEIVED <u>12/01/89</u>	LAB NO. <u>NO 3923</u>	USER CODE <input type="checkbox"/> 59300 <input type="checkbox"/> 59600 <input checked="" type="checkbox"/> OTHER: 82235
Collection DATE <u>89/11/29</u>	SITE INFORMATION	Sample location <u>WASSERHUND - ERIDSON STATION</u>
Collection TIME <u>1530</u>		Collection site description <u>BRINE POND</u>
Collected by — Person/Agency <u>ANDERSON/BOYER</u> <u>10CD</u>		

SEND  
FINAL  
REPORT  
TO

ENVIRONMENTAL BUREAU  
NM OIL CONSERVATION DIVISION  
State Land Office Bldg, PO Box 2088  
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

**SAMPLING CONDITIONS**

<input type="checkbox"/> Bailed <input checked="" type="checkbox"/> Dipped	<input type="checkbox"/> Pump <input type="checkbox"/> Tap	Water level	Discharge	Sample type <u>GRAB</u>
pH (00400)	Conductivity (Uncorrected) <u>50000+</u> $\mu$ mho	Water Temp. (00010) $^{\circ}$ C	Conductivity at 25 $^{\circ}$ C (00094) $\mu$ mho	
Field comments				

**SAMPLE FIELD TREATMENT — Check proper boxes**

No. of samples submitted <u>1</u>	<input checked="" type="checkbox"/> NF: Whole sample (Non-filtered)	<input type="checkbox"/> F: Filtered in field with 0.45 $\mu$ m membrane filter	<input type="checkbox"/> A: 2 ml H <sub>2</sub> SO <sub>4</sub> /L added
<input checked="" type="checkbox"/> NA: No acid added	<input type="checkbox"/> Other-specify:	<input type="checkbox"/> A: 5ml conc. HNO <sub>3</sub> added	<input type="checkbox"/> A: 4ml fuming HNO <sub>3</sub> added

**ANALYTICAL RESULTS from SAMPLES**

NA	Units	Date analyzed	From <u>NF</u> , NA Sample:	Date Analyzed
<input checked="" type="checkbox"/> Conductivity (Corrected) 25 $^{\circ}$ C (00095)	<u>144 828</u> $\mu$ mho	<u>1-3</u>	<input checked="" type="checkbox"/> Calcium <u>2132</u> mg/l	<u>12/06</u>
<input type="checkbox"/> Total non-filterable residue (suspended) (00530)			<input checked="" type="checkbox"/> Potassium <u>3237</u> mg/l	<u>12/13</u>
<input checked="" type="checkbox"/> Other: pH <u>6.30</u>		<u>12/14</u>	<input checked="" type="checkbox"/> Magnesium <u>8245</u> mg/l	<u>12/06</u>
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Sodium <u>106800</u> mg/l	<u>12/13</u>
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Bicarbonate <u>114</u> mg/l	<u>12/14</u>
<b>A-H<sub>2</sub>SO<sub>4</sub></b>			<input checked="" type="checkbox"/> Chloride <u>191000</u> mg/l	<u>1/10/90</u>
<input type="checkbox"/> Nitrate-N +, Nitrate-N total (00630)	mg/l		<input checked="" type="checkbox"/> Sulfate <u>2950</u> mg/l	<u>12/19</u>
<input type="checkbox"/> Ammonia-N total (00610)	mg/l		<input checked="" type="checkbox"/> Total Solids <u>357000</u> mg/l	<u>12/22</u>
<input type="checkbox"/> Total Kjeldahl-N ( )	mg/l		<input checked="" type="checkbox"/> <u>BROMIDE 40.2</u>	<u>12/12/89</u>
<input type="checkbox"/> Chemical oxygen demand (00340)	mg/l		<input type="checkbox"/>	
<input type="checkbox"/> Total organic carbon ( )	mg/l		<input checked="" type="checkbox"/> Cation/Anion Balance	
<input type="checkbox"/> Other:			Analyst	Date Reported <u>1/22/90</u>
<input type="checkbox"/> Other:				Reviewed by <u>[Signature]</u>
Laboratory remarks <u>12 8 AM 2 831 06</u>				

## CATIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	106.39	2132.00	<3.0
Mg	677.29	8246.00	<0.3
Na	4645.50	106800.00	<10.0
K	82.79	3237.00	<0.3
Mn	0.00	0.00	
Fe	0.00	0.00	

SUMS 5511.96 120415.00

Total Dissolved Solids= 357000  
Ion Balance = 101.11%

## ANIONS

ANALYTE	MEQ.	PPM	DET. LIMIT
HC03	1.87	114.00	<1.0
SO4	61.46	2950.00	<10.0
CL	5387.87	#####	<5.0
		191,000	
NO3	0.00	0.00	< 0.
CO3	0.00	0.00	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0.

5451.20 #####

WC No. = 8903922  
Date out/By CD 1/2OIL CONSERVATION DIVISION  
RECEIVED  
90 FEB 2 AM 8 27

☒ Telephone ☐ PersonalTime  
8:45 AMDate  
4-17-89

Originating Party

Other Parties

Pete Hasseloff

John Parker  
WRS III

Owner/operator Wasserkund

Subject

1<sup>st</sup> Monitoring report ~~status~~ and Financial assurance  
for DP-321 renewal.

## Discussion

I asked Pete, who was returning my call from last week, if the financial assurances were forthcoming. He stated that his partner was backing out and that he didn't have the where-with-all himself. However he would try to meet the requirement - and inform Gene Sambrson that I called. I asked why there was such a disparity between fresh water and brine. Jack Hunter, bookkeeper, stated that the fresh water reported was simply what was sold, not what was injected.

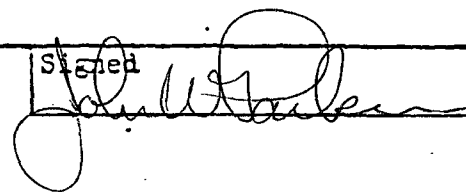
## Conclusions or Agreements

I told Mr. Hunter to report fresh water injected and brine produced. If he was unable to do so, then

Distribution

file

Signed



C. GENE SAMBERSON  
MICHAEL T. NEWELL

LAW OFFICES  
HEIDEL AND SAMBERSON  
311 NORTH FIRST STREET  
POST OFFICE DRAWER 1599  
LOVINGTON, NEW MEXICO 88260  
(505) 396-5303

F. L. HEIDEL  
(1913-1985)

February 24, 1989

**R E C E I V E D**

MAR 01 1989

**GROUND WATER BUREAU**

Mr. Kevin A. Lambert  
Hydrologist  
Ground Water Section - UIC Program  
Environmental Improvement Division  
Post Office Box 968  
Santa Fe, NM 87504-0968

Re: Wasserhund, Inc.  
Discharge Plan DP-321

Dear Mr. Lambert:

Thank you for your letter of February 14, 1989, concerning the above matter.

We have submitted the proposed modifications you suggested to the existing Plugging Bond to the Bonding Company, with the request to inform us whether or not such modifications would be acceptable. We are now informed that the modifications can be accomplished, therefore, a formal request is pending with the Bonding Company to do so, but we have not yet received the amended Bond.

In addition, we are pursuing various matters in an attempt to comply with the financial assurance requirements for Wasserhund, Inc. and as soon as I have that I will be in contact with you.

Very truly yours,

HEIDEL, SAMBERSON, & NEWELL

By 

CGS:lt

cc: Mr. J. E. Haseloff

C. GENE SAMBERSON  
MICHAEL T. NEWELL

LAW OFFICES  
HEIDEL AND SAMBERSON  
311 NORTH FIRST STREET  
POST OFFICE DRAWER 1599  
LOVINGTON, NEW MEXICO 88260  
(505) 396-5303

F. L. HEIDEL  
(1913-1985)

January 31, 1989

**R E C E I V E D**  
**FEB 06 1989**

Mr. Kevin A. Lambert  
Hydrologist  
Ground Water Section - UIC Program  
Environmental Improvement Division  
Post Office Box 968  
Santa Fe, New Mexico 87504-0968

GROUND WATER BUREAU  
*work copy*

Re: Discharge Plan DP-321

Dear Mr. Lambert:

I will be assisting Mr. J. E. Haseloff, President of Wassershund, Inc., in connection with the various matters contained in your letter of August 5, 1988, and January 23, 1989, pertaining to the above captioned matter.

The Bonding Company and the OCD will be contacted for purposes of determining whether or not they are willing to agree to the proposed modifications you have suggested. If the modifications proposed to the plugging bond can be accomplished, you mentioned the need for a Trust Agreement to also be submitted in connection with the plugging bond. I note in the correspondence you have also mentioned that with respect to the irrevocable letter of credit previously furnished a Trust Agreement must be furnished in connection with it. My question is whether or not separate Trust Agreements should be submitted in each instance or if one Trust Agreement involving both the plugging bond and the irrevocable letter of credit would be sufficient. I would appreciate having your earliest response.

In addition to the foregoing, Mr. Haseloff is taking the necessary steps to obtain Financial Statements for the years 1986, 1987 and 1988 as he discussed with you. Same will be furnished as soon as we have received them. Thank you.

Very truly yours,

HEIDEL, SAMBERSON & NEWELL

CGS:lt

By *C. Gene Sambersson*

cc: Mr. J. E. Haseloff



1/11/89

# EID Review of Wasserhund's Irrevocable Standby Letter of Credit

## 1. P&A, Decommissioning Surface Facility

- Total Amount \$10,000.00

- Letter of Credit = \$5,000.00

\* a.) Need Trust Agreement w/ Letter of Credit  
\* Note EID letter of August 5, 1988

- OCD one-well plugging bond = \$5,000.00

\* a.) EID cannot accept bond in present form

Acceptable forms for FA  
\* b.) <sup>2</sup> Initiate new financial assurance (FA) in EID's name, for \$5,000.00; Use financial assurance forms provided in EID letter of 8/5/88

- Trust agreement must accompany financial assurance(s)

\* c. Modify existing One-Well plugging bond bond no. 01-0130-328-80  
- Proposed Modifications are as follows:

1. SEE EID March 1, 1985 <sup>EID</sup> letter to Janica on Salty Dogs Hobs #1

- Trust agreement must accompany bond See 8/5/88 letter from EID

- Hydrogeological Investigation = \$35,000.00

a.) Required in addition to the \$10,000.00 financial assurance for P&A, Decommissioning

↓ Turn Over

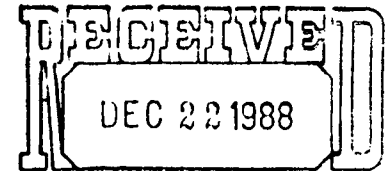
b.) May use one of acceptable forms of FA provided in FID Letter of 8/5/88

- Trust Agreement must accompany FA

c.) Self insurance may be acceptable

- Include most recent financial statement
- Include previous 2 years financial statements.
- Type of Company e.g. partnership, limited partnership, etc.
- Wasserhund's fiscal year.

Liberty National Bank  
P.O. Box 1627  
Lovington, New Mexico 88260



EID DIRECTOR'S OFFICE

State of New Mexico  
c/o Director  
Environmental Improvement  
Division of the New Mexico  
Health and Environment Department  
P.O. Box 968  
Santa Fe, New Mexico 87504-0968

*KAL 1/5/89*  
WORK COPY

Dear Sirs:

We hereby establish our irrevocable Standby Letter of Credit No. 354 in your favor, at the request and for the account of Wasserhund Inc., P.O. Box 249, Lovington, New Mexico 88260, up to the aggregate amount of Five Thousand U.S. dollars (\$5000.00), available upon presentation by you of: ✓

1. Your sight draft, bearing reference to this letter of credit, No. 354; and ✓

2. Your signed statement reading as follows: "I certify that the amount of the draft is payable pursuant to regulations issued under authority of the New Mexico Water Quality Act, \*74-6-1 et seq. NMSA 1978." ✓

This letter of credit may be drawn on to cover any needed proper closing, plugging and abandonment of a well, and hydrogeologic investigation for ground-water contamination costs arising from the injection well(s) identified below in the amount of Five Thousand U.S. dollars (\$5000.00) annual aggregate. ✓

Discharge Plan DP-321  
Eidson State #1 ✓

SW 40 acres in the SW1/4; Section 31; Township 16 South; Range 35 East; N.M.P.M., Lea County, New Mexico. ✓

This letter of credit is effective as of 12-19-88 and shall expire on 12-19-89, but such expiration date shall be automatically extended for a period of one year on 12-19-89 and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify both you and Wasserhund, Inc. by certified mail that we have decided not to extend this letter of credit beyond the current expiration date. In the event that you are so notified, any unused portion of the credit shall be available upon presentation of your sight draft for 120 days after the date of receipt by both you and Wasserhund, Inc. as shown on the signed return receipts. ✓

Whenever this letter of credit is drawn on under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of Wasserhund, Inc. in accordance with your instructions. ✓

*Mike Hoyle*

Mike Hoyle  
President & CEO  
Liberty National Bank  
P.O. Box 1627  
Lovington, New Mexico 88260  
12-19-88 ✓

This credit is subject to "the most recent edition of the Uniform Customs and Practice for Documentary Credits, published by the International Chamber of Commerce." ✓

## FILE REVIEW

Permit No. P-321 Pass      Fail       
 Well Class III Reviewer: Lambert  
 Operator Wasserhund, Inc Date: 10/15/87  
 Well Name Wasserhund Well #1 State: NM  
 Well Location T16S R35E Sec 31 Agency: EID-GWB  
 Lease Name Edson State Drill Date: 8/21/80

CONSTRUCTION

	size	depth	cement (sacks)	calculated interval
Surface csg.	13 3/8"	35.8'		
Intermediate csg			265 sks class "O"	
Long string csg.	7"	1895.0'	570 sks Halliburton Light Cement	
			CONTAINING 4560# Salt mixed	
			8# w/ 570, 142# Flocele mixed	
Tubing	2 7/8"	2461.0'	1/4# w/ 570, 5 sks CAC mixed	

Hole size 9 7/8"2% w/ 265

Is construction adequate?

✓ yes      no approved by OCD

Packer required?

     yes ✓ no

Packer depth

Total Depth

2555' 2461'HYDROLOGY

USDW Depth (10,000 mg/l)

DTW Ogallala 85'

Log Types?

State Engineer's Proof of Completion of Well

Faults in area addressed?

     yes      no

Chemical analysis, formation fluid included?

X yes      no

Chemical analysis injected fluid included?

X yes      no

Adequate confining layer?

1690 ft Red Beds X yes      no

Permitted injection pressure

390 lba

Permitted injection rate

Does pressure and rate exceed allowable?

Type of injectant

Fresh Water  
well in Ogallala

GENERAL INFORMATION

Plugging bond or financial assurance included? ☐ yes ☐ no  
Public notice included? ☒ yes ☐ no  
Hearing required? ☐ yes ☒ no  
Citizen comments addressed? *None Received* ☐ yes ☐ no  
Workover, if yes put in general comments ☐ yes ☐ no

AREA OF REVIEW

Calculated ☐ 1/4 mile ☐ minimum State AOR ☐  
Wells in AOR: ☐ injection ☐ production ☐ abandoned  
Deficient wells: ☐ construction ☐ plugging  
Wells receiving CA: ☐ injection ☐ production ☐ abandoned  
Were all wells addressed for CA? ☐ yes ☐ no  
If no, comments: ☐

AOR landowners notified? ☐ yes ☐ no

Has well received (pressure test) MIT? ☐ yes ☐ no  
Date of most recent MIT ☐ pass ☐ fail  
Has absence of fluid movement been demonstrated? ☐ yes ☐ no  
Enforcement actions included? ☐ yes ☐ no  
If yes, comments: ☐

Has well been a SNC? ☐ yes ☐ no  
Is all information in permit? ☐ yes ☐ no

Is permit issued properly?

\_\_\_\_\_ yes \_\_\_\_\_ no

Citizen comments and investigations?

\_\_\_\_\_ yes \_\_\_\_\_ no

If yes, comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PLUGGING AND ABANDONMENT

Properly Plugged?

\_\_\_\_\_ yes \_\_\_\_\_ no

Cement Placement

Cement (sx)

_____	from	_____	to	_____
_____	from	_____	to	_____
_____	from	_____	to	_____

Required Placement

_____	from	_____	to	_____
_____	from	_____	to	_____
_____	from	_____	to	_____
_____	from	_____	to	_____

GENERAL COMMENTS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Wasserhund Inc.

## I General Description

A. -ok-

B. -ok-

C. -ok-

D. -ok-

## II Specs

A. 1. -ok-

2. -ok-

3. Daily Discharge? (50,000 bbls/mo) ok

4. ~~liner type~~? -ok- Dupont KRS 20 mm

B. 1. -ok-

2. -ok- (need log)

3. -ok-

4. -ok- 390 psi - need comparison

5. need notification commitment

6. -ok

## III Site Characteristics

A. NA

B. Geology

- ✓ 1. depth to Ogallala & confining layers: } x-section & sensitive
- ✓ 2. ~~water~~ need cross-section . . . . . }
- 3. what's below Ogallala?

C. Hydrology

- ✓ 1. anything above the Ogallala?
- 2. -ok-
- ✓ 3. flooding potential - need topo map
- ✓ 4. again, need depth
- 5. -ok-
- 6. -ok-



#### IV Operation

- A 1. oil wells within  $\frac{1}{4}$  mile 5-203. A, B. 1; 5205 (C.S.)  
2. "  
3. need to get pressure test  
4. cement by commitment  
5. no means provided?  
6. -ok-  
7. <sup>leakage</sup> present; need sample  
8. no monitoring  
9. collection system / sump / elevated 180 bbl storage  
10. no contingency plans  
11. need notification commitment

#### B. post operational

1. - need plugging and abandonment plan  
- including surface facility (eg.  
pond liner removed)  
- demonstrate adequacy of bond  
to finance above

#### V. sign off lacks certification

# MONITORING AND REPORTING FORM

ALL BLANKS MUST BE COMPLETED.

CHECK ALL APPLICABLE BOXES

DISCHARGE PLAN NUMBER: 321

ORIGINAL DP: ☐

SIC NUMBER: \_\_\_\_\_

ORIG. DP PEND. APPROV: ☐

EID DISTRICT: IV

RENEWAL: ☐

RENEWAL PEND: ☒

MODIFICATION: ☐

MODIFICATION PENDING: ☐

NAME OF FACILITY: Wasserhund

LOCATION OF FACILITY: Hwy 8 4 miles S. of Hwy 82

ALTERNATE OR PAST NAME OF FACILITY: \_\_\_\_\_

CITY OR CLOSEST TOWN: Lovington USGS QUAD: Lovington

COUNTY: Lea TWP: 16 S RGE: 35 E SEC: 31

CONTACT PERSON: Hasehoff, J.E. "Pete" TITLE: President  
LAST NAME FIRST NAME

ADDRESS OF CONTACT PERSON: P.O. Box 249 Lovington, NM  
88260

TELEPHONE: (505) 396-3128

TYPE OF FACILITY: Brine Manufacturing AND Sales

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

injection well for brine manufacture, lagoon for storage

REVIEWER: ( CURRENT ) Lambert, Kevin  
LAST NAME FIRST NAME

DATE APPROVED: \_\_\_\_\_ DATE OF EXPIRATION: \_\_\_\_\_

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

SAMPLING SITE OR ID	STORET CODE ( SAMP. SITE )	PARAMETER(S)	DATE DUE
------------------------	-------------------------------	--------------	----------

Fresh water Injected		Volume	4x
Brine water produced			
Storage Lagoon		Monitor for fluids	4x
Leak Detection System			
Fresh Water		TDS, Chlorides	1x
Brine Water			

SAMPLING SITE  
OR ID

STORET CODE  
( SAMP. SITE )

PARAMETER(S)

DATE DUE

Cement Bond Log	within renewal period	

COMMENTS: *Commits to notify EID of any workover and within 48 hours in event of a loss of mechanical integrity, or leak or spill of a significant amount of contaminated water.*

PRE-1977 DISCHARGE FOR WHICH DISCHARGE PLAN HAS BEEN REQUIRED UNDER SECTION 3-106.A. ?

YES \_\_\_ NO X

OTHER APPLICABLE PERMITS:

	<u>YES</u>	<u>NO</u>
RCRA	___	<u>X</u>
RADIOACTIVE MAT.	___	<u>X</u>
NPDES	___	<u>X</u>
UST	___	<u>X</u>

STATUS OF DP:

ACTIVE: X  
WITHDRAWN: \_\_\_  
EXPIRED, NOT RENEWED: \_\_\_  
INACTIVE-TERMINATED OPERATIONS: \_\_\_  
INACTIVE- OPERATION PENDING: \_\_\_

SEND REPORTS TO:

GROUND WATER SECTION  
EID: GROUND WATER BUREAU  
P.O. BOX 968  
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