BW - 13

GENERAL CORRESPONDENCE

YEAR(S):

2005 -> 1991



RECEIVED PATRICK H. LYONS COMMUNSIONER 9 PM 3 04 Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

November 4, 2009

Mr. John Stearns Stearns, Inc. HCR 65 Box 988 Crossroads, NM 88114

1.15 T.

Re: New Mexico Salt Lease M-15635-1

Dear Mr. Stearns:

State of New Mexico Salt Lease No. M-15635-1, date of issue April 4, 1972, located in the SE4SE4, of Section 27, Township 9 South, Range 35 East in Lea County, has expired by its own terms, and has been terminated effective October 16, 2008, due to lack of production.

State Land Office records reflect the action taken, and failure to appeal this decision in the manner prescribed by law will result in the action becoming final (reference §19-7-64 to 19-7-67 NMSA 1978).

If you have any questions, please call Michael Mariano, Minerals Manager, at 505-827-5750.

Sincerely,

JAMI BAILEY, Director Oil, Gas, & Minerals Division

JB/MM/mec

cc:

Jim Carr, DRM Jim Norwick, Director, Field Division, SLO ✔Glenn Von Gonten, OCD 1220 S. St Francis Drive Santa Fe, NM 87505

-State Land Office Beneficiaries -

Carrie Tingley Hospital • Charitable Penal & Reform • Common Schools • Eastern NM University • Rio Grande Improvement • Miners' Hospital • NM •NM Boys School • NM Highlands University • NM Institute of Mining & Technology • New Mexico Military Institute•NM School for the Deal • NM School for the Visually Handicapped • NM State Hospital • New Mexico State University • Northern NM Community College • Penitentiary of New Mexico • Public Buildings at Capital • State Park Commission • University of New Mexico • UNM Saline Lands • Water Reservoirs • Western New Mexico University

COMMISSIONER'S OFFICE

Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

Submit 3 Copies To Appropriate District Office <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	State o Energy, Mineral OIL CONSER	f New Me s and Natu	xico ral Resources DIVISION	WELL API N	F0. 30-025-35702	orm C-103 June 19, 2008
District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 Sout Santa I	th St. Fran Fe, NM 87	acis Dr. 7505	6. State Oil & M-1	E S FEE 2 Gas Lease No. 5635	
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI PROPOSALS.)	ICES AND REPORTS O ISALS TO DRILL OR TO DE CATION FOR PERMIT" (FO	ON WELLS EPEN OR PLU RM C-101) FC	JG BACK TO A DR SUCH	7. Lease Name or Unit Agreement Name KTS Brine		
1. Type of Well: Oil Well 2. Name of Operator	Gas Well Other	Brine Well		9. OGRID Number		
John 3. Address of Operator	R.Stearns DBA Stearn	<u>s</u>		10. Pool nam	e or Wildcat	
PO Box 9	88 Crossroads, NM 8	8114			Salado	
4. Well Location Unit Letter P :	200feet from the Township 99 11. Elevation (Show v	_South S Ra whether DR,	line and 2 nge 35E RKB, RT, GR, etc.	200feet NMPM L	from the _East ea Count	line y
12. Check	Appropriate Box to I	ndicate Na	ature of Notice,	Report or Ot	her Data	
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING DOWNHOLE COMMINGLE	ITENTION TO: PLUG AND ABANDO CHANGE PLANS MULTIPLE COMPL	N Ø C C	SUE REMEDIAL WOR COMMENCE DR CASING/CEMEN	SEQUENT K [ILLING OPNS.[T JOB [REPORT OF: ALTERING C P AND A]	Casing []
OTHER:	lated anomations (Class		OTHER:	d aive nortinent	detes including s	
 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed overk). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. NMOCD records indicate well drilled in 1966. NMOCD records indicate 7"casing set at 2000 feet cemented to surface Total Depth 2800 feet. Open hole through the salt from 2000 feet to 2800 feet Inspection of well head and downhole test indicate well cased with 5 ½" casing. No record of surface casing Stearns proposes to plug and abandon well as follows Pull brine production equipment Run SOCON Sonar log from 2000ft to 2800ft for brine cavity evaluation Run tubing open ended to 2000ft x Spot 40 sacks Class "C" cement with 2% CaCl x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC Run tubing and tag cement plug x Spot 50 sack cement plug x Pull tubing x WOC 						
I hereby certify that the information	above is true and comple	ete to the be	st of my knowledg	e and belief.		
SIGNATURE Billy E.	Frihen Tit	LE Agent	for Stearns	·	DATE <u>/2/2</u>	9/08
Type or print name Billy E. Pricha For State Use Only	.rd E-mai	il address: <u>bi</u>	illy@pwllc.net		PHONE: 432-934	-7680
APPROVED BY: Conditions of Approval (if any):	IZLACHEA C	LE FB	L	······································	DATE_//0	8/09

1/08/09 1Л

C-103 Kenneth Tank Service Brine Facility No. 1 (BW-13) API# 30-025-35702 Conditions of Approval

1) A sonar test of the salt cavern is required in advance of plugging and abandoning the brine well. If a Sonar test cannot be run, the OCD requires a closure plan for the facility including ground water (if applicable), seismic and subsidence monitoring for 30 years; time-frame for equipment decommissioning/site restoration; and financial assurance to ensure that the above is completed.

2) An EPA 5-Yr. MIT (30 min. @ 300 – 500 psig) w/ CIBP or cement plug at or near casing shoe is required in advance of plugging and abandoning the brine well.

3) The cavern shall be filled with brine water (not fresh water) in advance of plugging operations.

3) Cement must be pressure grouted from above CIBP or cement plug to surface.

4) At least 210 sks of Class "C" Cement from CIBP or cement plug Setting Depth of 2000' to surface is required.

5) Final C-103 Form shall be submitted within 30 days of plug and abandonment with final construction details.

Pueblo West Oilfield Consulting Service

2003 JAN 2 PM 2 26

December 29, 2008

New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, NM 87505

RE: C103 and well diagrams

Mr. Carl J. Chavez

Please find enclosed the original plus 3 copies of C103 Notice of Intent to plug and abandon the Stearns (Ogrid# 21566) KTS Brine # 1(API# 30-025-35702) brine well. Also enclosed is the original and 3 copies of before and proposed after PA well diagrams.

Sincerely,

Billy E. Prulue

Billy(Bill)E. Prichard <u>www.pwllc.net</u> 125 Greathouse Village Decatur, TX 76234 432-934-7680 cellular 940-627-5449 office phone/fax Email; billy@pwllc.net





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<u>Distri</u> 1625 <u>Distri</u> 1301 <u>Distri</u> 1000 <u>Distri</u> 1220	ct I State of New Mexico Revised June 10, 2003 N. French Dr., Hobbs, NM 88240 Energy, Minerals and Natural Resources Department Submit Original W. Grand Avenue, Artesia, NM 88210 Oil Conservation Division Plus 1 Copy Ct II Oil Conservation Division Plus 1 Copy Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. 1 Copy to Appropriate S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 NM 87505
	DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITES (Refer to the OCD Guidelines for assistance in completing the application) 2005 RW-013
	New Renewal DIVISERVATION
I.	Facility Name: (KTS RRINE FACILITY) JAN R. STEARNS dbA StEARNS WAter Stotion
TL.	Operator: July R. Stopping the Stopping
	Address: HC 65 Box 988 CROSS BADS NM 88114
~	Contact Person: John R. OR Lou Ann Stephensone: 505-675-2356
III.	Location: <u>SE</u> /4 <u>SE</u> /4 Section <u>27</u> Township <u>95</u> Range <u>35 E</u> 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.
Nar	ne: John R. Stearns, Title: OWNER
Sig	nature: July 10, 2005
E-m	nail Address: NA

PLEA5 Ē	INCLUDE	\$ 001	FILING	fee-	MADE OUT TO Em.00.	WATER QUALITY NAVING MENT 44	D
					10.00		

Distr 1625 Distr 1301 Distr 1000 Distr 1220	State of New Mexico Revised June 10, 2003 ict II State of New Mexico Revised June 10, 2003 w. Grand Avenue, Artesia, NM 88210 Energy, Minerals and Natural Resources Department Submit Original W. Grand Avenue, Artesia, NM 88210 Oil Conservation Division Plus 1 Copy Oil Conservation Division Plus 1 Copy to Santa Fe 0 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 District Office
	DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITES
	(Refer to the OCD Guidelines for assistance in completing the application) $\beta (\omega - \partial/3)$
т	Facility Names (JTS Reins Facility) ThuR Stangue dha Stangue Ulater, Station
1. TT	Operator:) Luk Stanzale dha Stadzie
11.	Addresser HC (& Red 988 CREEPING MM 88/14
-	Contact Person: John Role Law Aug Rock Bone: 525-625-2356
III.	Location: SE /4 SE /4 Section Q7 Township 9S Range 35 E
	Submit large scale topographic map showing exact location.
IV.	Attach the name and address of the landowner of the facility site. $\sqrt{20^2 n^2}$
V.	Attach a description of the types and quantities of fluids at the facility. $h^{(1)}$
VI.	Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.
VIJ.	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. (1)
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.
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	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.
Nar	me: John R. Stearns, Title: OWNER
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aigi	maine Date: Date:
E-n	nail Address:/A

PLEAS Ē	INCLUDE	\$ 100 F	iling fee-	MADE OUT TO	2AT.E	P QUALITY .	MANAGE MENT for	0
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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 permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-318) – OK Hot Oil Service, Inc., Randy Kinnibrugh, Manager, P.O. Box 146, Loco Hills, NM 88255, has submitted a discharge plan application for their Loco Hills Facility located in the NW/4 Section 29, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. Approximately 20 barrels per month of waste water, will be collected and stored in a double lined containment prior to transport to an offsite OCD approved disposal site. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 260 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 and the proper management of all waste. The plan also included a proposed modification to up-grade the best management practices at the site.

(BW-013) - Mr. John R. Stearns, dba Stearns, HCR 65 P.O. Box 988, Crossroads, New Mexico, 88114, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility located in SE/4, SE/4, Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 feet and brine is extracted with an average total dissolved solids concentration of about 320,000 mg/l. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 140 feet with an estimated total dissolved solids concentration of 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site <u>http://www.emnrd.state.nm.us/ocd/</u>. Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 25th day of July 2005.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

SEAL

Mark Fesmire, Director

DRAFT

July 25, 2005

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO.</u>

John R. Stearns John R. Stearns dba Stearns Water Station HC 65 Box 988 Crossroads, NM 88114

Re: Discharge Permit BW-013 API # 30-025-35702 Lea County, New Mexico

Dear Mr. Stearns:

The groundwater discharge renewal application for the John R. Stearns dba Stearns Water Station BW-013 operated by John R. Stearns dba Stearns Water Station located in the SE/4, SE/4 of Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter.**

The original discharge plan was approved on July 15, 1985 by the Environment Improvement Division with an expiration date of July 15, 1990. The discharge plan renewal application, including attachments, dated July 10, 2005 submitted pursuant to Section 5101.B.3. of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge permit renewal application was submitted pursuant to Section 20.6.2.5101 of the New Mexico Water Quality Control Commission (WQCC) Regulations. The discharge permit is issued pursuant to Section 5101 and 3109.C. Please note Section 3109.G., which provides for possible future amendment of the permit. Please be advised that approval of this permit does not relieve John R. Stearns dba Stearns Water Station of liability should operations result in pollution of surface or ground waters, or the environment.

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

3

Please note that Section 3104 of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit. Pursuant to Section 3107.C., operators are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4., this approval is for a period of five years. **This approval will expire July 15, 2010** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 5101.F. of the regulations, if a discharger submits a discharge renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved.

The \$100.00 filing fee has been received by OCD. The \$1700.00 flat fee shall be submitted upon receipt of this approval.

Please make all checks payable to:	Water Quality Management Fund
	C/o: Oil Conservation Division
	1220 South Saint Francis Drive
	Santa Fe, New Mexico 87505.

If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail wayne.price@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

Roger C. Anderson Environmental Bureau Chief RCA/lwp

Attachment-1 xc: OCD District Office

ATTACHMENT TO THE DISCHARGE Permit APPROVAL John R. Stearns dba Stearns Water Station (BW-013) API # 30-025-35702 DISCHARGE PERMIT APPROVAL CONDITIONS July 25, 2005

- 1. <u>Payment of Discharge Plan Fees:</u> The \$100.00 filing fee has been received by OCD. The \$1700.00 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the permit, with the first payment due upon receipt of this approval.
- 2. <u>Commitments:</u> John R. Stearns dba Stearns Water Station will abide by all commitments submitted in the discharge permit renewal application and these conditions for approval.
- 3. <u>Drum Storage:</u> All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.
- 4. <u>Process Areas:</u> All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.
- 5. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.
- 6. <u>Above Ground Saddle Tanks</u>: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 7. <u>Labeling</u>: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

8. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design, unless approved otherwise. All below grade tanks, sumps and pits must be tested annually or as specified herein, except systems that have secondary containment with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Results of tests and inspections shall be maintained at the facility covered by this discharge permit and available for OCD inspection. Any system found to be leaking shall be reported to OCD within 15 days. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

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- 9. <u>Underground Process/Wastewater Lines:</u> All underground process/wastewater pipelines must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge permit and available for OCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. Any system found to be leaking shall be reported to OCD within 15 days. The OCD will be notified at least 72 hours prior to all testing.
- 10. <u>Class V Wells</u>: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
- 11. <u>Housekeeping:</u> All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery.
- 12. <u>Spill Reporting:</u> All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203.

- 13. <u>Waste Disposal</u>: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.
- 14. <u>Rule 712 Waste:</u> Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division.
- 15. <u>OCD Inspections</u>: Additional requirements may be placed on the facility based upon results from OCD inspections.
- 16. <u>Storm Water Plan:</u> Stormwater runoff plans and controls shall be maintained. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then immediate corrective actions shall be taken to stop the discharge. OCD shall be notified within 24 hours of discovery and the permit shall be modified within 15 days and submitted for OCD approval.
- 17. Well Work Over Operations: OCD approval will be obtained from the Director prior to performing remedial work, pressure test or any other Work over. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103.A.) with appropriate copies sent to the OCD Environmental Bureau and District Office.
- 18. <u>Production Method:</u> Fresh water will be injected down the casing and brine shall be recovered up the tubing. Reverse flow will be allowed only once a month for up to 24 hours for clean out.
- 19. <u>Maximum Injection Pressure</u>: The maximum operating injection and/or test pressure at the well head will be such that the fracture pressure of the injection formation will not be exceeded and will not cause new fractures or propagate existing fractures or cause damage to the system.
- 20. <u>Mechanical Integrity Testing</u>: Conduct an annual open to formation pressure test by pressuring up the formation with fluids to one and one-half times the normal operating pressure or 300 psig whichever is greater for four hours. However, no operator may exceed surface injection or test pressures that may cause formation fracturing (see item 4 above) or system failures. Systems requiring test pressures less than 300 psig or methods

that use testing media other than fluids, i.e. gas, must be approved by OCD prior to testing. Brine supply wells operating with isolation packers will have to pressure test both the cavern formation and casing/tubing annuals. At least once every five years and during well work-overs the cavern formation will be isolated from the casing/tubing annuals and the casing pressure tested at 300 psig for 30 minutes. All pressure tests must be witnessed by OCD.

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- 21. <u>Capacity/ Cavity Configuration and Subsidence Survey:</u> The operator shall provide information on the size and extent of the solution cavern and geologic/engineering data demonstrating that continued brine extraction will not cause surface subsidence, collapse or damage to property, or become a threat to public health and the environment. This information shall be supplied in each annual report. OCD may require the operator to perform additional well surveys, test, and install subsidence monitoring in order to demonstrate the integrity of the system. If the operator cannot demonstrate the integrity of the system to the satisfaction of the Division then the operator may be required to shutdown, close the site and properly plug and abandoned the well.
- 22. <u>Production/Injection Volumes:</u> The volumes of fluids injected (fresh water) and produced (brine) will be recorded monthly and submitted to the OCD Santa Fe Office in an annual report due on the first day of January of each year.
- 23. <u>Analysis of Injection Fluid and Brine:</u> Provide an analysis of the injection fluid and brine with each annual report. Analysis will be for General Chemistry (method 40 CFR 136.3) using EPA methods.
- 24. <u>Transfer of Discharge Plan:</u> The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.
- 25. <u>Closure</u>: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

26. <u>Certification:</u> John R. Stearns dba Stearns Water Station by the officer whose signature appears below, accepts this and agrees to comply with all terms and conditions contained herein. John R. Stearns dba Stearns Water Station further acknowledges that these conditions and requirements of this may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

John R. Stearns dba Stearns Water Station

Print Name:

Signature:

Title:_____

Date:_____

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OCD ENVIRONMENTAL BUREAU

675-2424

SITE INSPECTION SHEET

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	368-5245
DATE: 12/14/00 Time: 4 PM	BUBBY STEARNS
Type of Facility: Refinery 🗆 Gas Plant 🗆 Compressor St. 🗆 Brine St. 🛨 Oilfield	Service Co. 🗖
Surface Waste Mgt. Facility 🗖 🛛 E&P Site 🗖 🛛 Crude Oil Pump Station	Ο
Other D	
Discharge Plan: No DYes & DP# Bw~013	
FACILITY NAME: STREAMS BRINE WELL NO	API #
PHYSICAL LOCATION: / Mi 5 of CRISSROADS	
Legal: QTR <u>5/2 QTR 5E</u> Sec <u>27</u> TS 95 R <u>35E</u> County LEA	
OWNER/OPERATOR (NAME)	<u>_</u>
Contact Person: BBBY STREANS Tele:#	·····
MAILING	
ADDRESS: State	ZIP
Owner/Operator Rep's:	
OCD INSPECTORS: Drum Storage: All drums containing materials other than fresh water must be stored on an imper All empty drums will be stored on their sides with the bungs in and lined up on a horizontal pi containers such as sacks or buckets will also be stored on an impermeable pad and curb type of MA	rmeable pad with curbing. lane. Chemicals in other containment.
2. <u>Process Areas</u> : All process and maintenance areas which show evidence that leaks and spill surface must be either paved and curbed or have some type of spill collection device incorpora	s are reaching the ground ted into the design.
OK	
3. <u>Above Ground Tanks</u> : All above ground tanks which contain fluids other than fresh water contain a volume of one-third more than the total volume of the largest tank or of all intercomtanks or existing tanks that undergo a major modification, as determined by the Division, must impermeable bermed enclosure.	must be bermed to nected tanks. All new st be placed within an

Page ____ of ____

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OK

NA

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

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

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

WATER Pit-FRESH 7. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to a state of the test of test all testing. BRINE 70 TANKS WELL

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

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

OCD Inspection Sheet Page ____ of ____

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

ANY CLASS V WELLS NO DY YES D IF YES DESCRIBE BELOW ! Undetermined D

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

900<u>(</u>) _____ 11. <u>Spill Reporting:</u> All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the proper OCD District Office. 12. Does the facility have any other potential environmental concerns/issues? 13. Does the facility have any other environmental permits - i.e. SPCC, Stormwater Plan, etc.? NO □ YES t IF YES, HOW IS IT BEING USED ? 14. ANY WATER WELLS ON SITE ? 2 WELLS ON SILE **Miscellaneous Comments:** MIT- OPEN HOLE 5TALT 4 1M 355 1519 5TOP 8 PM 355 1519 GAGE 0-600 C Number of Photos taken at this site: attachments-0 **OCD** Inspection Sheet Page ____ of ____ RECORDER 24 HOUR 0-1000th

John R. Stearns dba STEARNS HCR 65 Box 988 Crossroads, NM 88114 August I, 2000

N.M. Energy, Minerals & Natural Resources Dept. Oil Conservation Division Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

Re: Discharge Plan BW-013

Dear Mr. Wayne Price:

I appreciate your verbal extension of the first annual report of Discharge Plan BW-013 due date from August I, 2000 to September 29, 2000. The tests and applicable information requested should be completed by the September date. A mechanical integrity test was done on the well in October 1999. Quarterly reports of production and water analysis have been sent through April 2000. I have a current water analysis that was done in June of this year which reflects basically the same results as we have been seeing through the past few quarters.

As mentioned in the fax sent to you July 31, 2000, I need the formulas you offered to send me to calculate the cavity size and stability i.e. roof cavity equation-depth. When I receive these formulas from you I should be able to calculate the requested information for the report.

Again, I thank you for helping with this project.

Sincerely

Lou Ann Stearns

P.01 JUL-31-00 03:54 PM July 31, 2000 . lew Mexico Every Mineral Matural Resamos Qi Conservation Division anto te MM SISAS Atta: WAyne Price ahu R. Steners dba Steners Upster Station Discharge Plan BN-013 Revenal essage: Appleciated our telephone Conversation AND your approval of an extention of the leads and test data on our Discharge BW-013. H letter Confirming the date of Sept. 29, 2000 tok the first annual Report AND A Request for the Additional juta I need will be in the mail to your office shortly Again ! mail

Price, Wayne

From:	Price, Wayne
Sent:	Wednesday, September 06, 2000 3:57 PM
To:	Pitzer, Donna
Cc:	Prichard, Billy, Phillips, Dorothy
Subject:	C-104 Stearns Brine well

Donna:

Well #1 UL P sec 27-Ts9s-R35e 200 fsl 200 fel

Please find attached a letter approving the Bond for this well. Please process the C-104.

Thanks!



9/13/00 -DONNA is Whiting ON API # -AS SOON AS SERE GET'S IT SHE DICL PROEESS - 104. M

Affidavit of Publication

) ss.

STATE OF NEW MEXICO

COUNTY OF LEA

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

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of THE LOV-

INGTON DAILY LEADER and not in any supplement there-

of, for <u>one (1) day</u>, beginning with the issue of

March 3 , 2000 and ending with the issue

of______, 2000.

And that the cost of publishing said notice is the sum of \$_55.00 which sum has been (Paid) as Court Costs.

10 mens NO

Subscribed and sworn to before me this 3rd day of March 2000.

Debbie Schilling Notary Public, Lea County, New Mexico My Commission Expires June 22, 2002

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan 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-013) - Mr. John R. Stearns, dba Stearns, HCR 65 P.O. Box 988, Crossroads, New Mexico, 88114, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility located in SE/4, SE/4, Section 27, Township 9 South, Range 35 East, NMPM, County, Lea New Mexico. Fresh water is Injected into the Salado Formation at an approximate depth of 2300 feet and brine is extracted with an average total dissolved solids concentration of about 320,000 mg/l. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 140 feet with an estimated total dissolved solids concentration of 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address

given above. The discharge 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 application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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 the information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil C o n s e r v a t i o n Commission at Santa Fe, New Mexico, on this 28th day of February, 2000.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION LORI WROTENBERY, Director SEAL

Published in the Lovington Daily Leader March 3, 2000.

Since 1849. We Read You.

The Santa Fe New Mexican, B. R.

NM OIL CONSERVATION DIVISION ATTN: DONNA DOMINGUEZ 2040 S. PACHECO ST. SANTA FE, NM 87505

1 1 MAR **- 8** 2000 1.50 CONSERVATION DIVISION

AD NUMBER: 135705 ACCOUNT: 56689 LEGAL NO: 66985 P.O.#: 00199000278 180 LINES 1 time(s) at \$ 79.35 AFFIDAVITS: 5.25 5.29 TAX : TOTAL: 89.89

AFFIDAVIT OF PUBLICATION

NOTICE OF PUBLICATION

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Any interested person may

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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 Notary _ director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

/S/

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 28th day of February, 2000

> STATE OF NEW MEXICO OIL CONSERVATION DIVISION LORI WROTENBERY, Director

<u>Legal</u> #66985 Pub. March 3, 2000

STATE OF NEW MEXICO Director of the Oil Conser- COUNTY OF SANTA FE

I, <u>Breiner</u> being first duly sworn declare and say that I am Legal Advertising Representative of THE discharge plan application say that I am Legal Advertising Representative of THE may be viewed at the SANTA FE NEW MEXICAN, a daily newspaper published in above address between the English language, and having a general circulatio 8:00 a.m. and 4:00 p.m., in the Counties of Santa Fe and Los Alamos, State of 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 gualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #66985 a copy of which is hereto attached was published in said newspaper 1 day(s) between 03/03/2000 and 03/03/2000 and that the notice was published in the newspaper proper and not in any supplement; the first ted to him and a public publication being on the 3 day of March, 2000 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

LEGAL ADVERT SEMENT REPRESENTAT

Subscribed and sworn to before me on this 6 day of March A.D., 2000

Nuntro

Commission Expires _//////203

on Waye In 3/28/0.

202 East Marcy Street • P.O. Box 2048 • Santa Fe. New Mexico 87501

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 28th day of February, 2000.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY, Director

SEAL

ACXNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

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I hereby ackno	owledge receipt of ch	leck No.	dated 2/24/00
or cash receiv	ved on	in the amount o	ts 50°
from <u>STEAN</u>	rns	· . ·	<u>هران المالي الحمر (11 من المالية)</u>
for STEAM	5 BRING WELL		BW-013 -
Submitted by:	WAYNE PRICE	✓ → Date:	2/28/20
Submitted to A	SD by: June 1	Date:	11
Received in As	D by:	Date:	
Filing Fe	e 🗹 New Facilit	Y Renewal _	
Modificat	ion Other		
To be deposite Full Paym	ed in the Water Qual: ment or Annual	ity Management Fur l Increment	ıd.
STEARNS LIC. NM 09838317 P. O. BOX 988 CROSSROADS, NM PAY TO THE ORDER OF Western Commerce Bank The Dellar S FOR Application Fee to	1 88114-0988	Tebrunny 24 2000 Diverin \$ 50. Dollar 3 Jou Inn Ha	95-108/1122 8 0 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3



John R. Stearns dba Stearns

HC 65 Box 988 Crossroads, NM 88114

Phone (505) 675-2356 Fax (505) 675-2339

February 24, 2000

State of New Mexico Energy, Minerals and Natural Resources Dept. Oil Conservation Division 2040 S. Pacheco St., P.O. Box 2088 Santa Fe, NM 87501

This letter is to request changes to be made from the former ownership of C.K. Kinsolving dba Kenneth Tank Service, Kenneth Tank Service Brine Production Facility with Discharge Plan No. BW-013 to John R. Stearns dba Stearns. These changes have been discussed with Wayne Price and Roger Anderson.

John R. Stearns dba Stearns now operates the KTS Brine Production Facility in Lea County at the location of: SE/4, SE/4,Sec.27, T9S, R35E. We request this change to be made on our discharge plan BW-013 and ownership of the brine well.

We also are requesting the release of the plugging bond on said well that is currently held by C.K. Kinsolving dba Kenneth Tank Service, Fireman's Fund Bond #SLR 6384300 be released and replaced by the blanket plugging bond held by John R. Stearns dba Stearns, RLI Insurance Surety Bond No. REBOULTES. (See attached copy of letter dated July 28, 1999 from Lori Wrotenbery stating approval of this bond by the OCD.) A completed C-104 is waiting in the Hobbs office for approval of this bond to transfer ownership.

The Discharge Plan BW-013 in the name of C.K. Kinsolving dba Kenneth Tank Service expires in July 2000. We are asking for a name change on the current plan (operations remain the same) and request renewal in the new name. Please find attached a renewal request in the name of John R.Stearns dba Stearns as well as a check for the \$50.00 filing fee.

We appreciate your help and guidance in getting this transfer done correctly and know this change will merely mean a continuation of our past experience with this facility.

Sincerely yours,

Lon Ann Stearns John R. Stearns dba Stearns



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

Telepb	oneX
Person	al
E-Mai	L
Time:	4pm
Date:	2/22/00

Originating Party: Wayne Price-OCD

Other Parties: Lou Ann Stearns- Kennith Tank Service. BW-013

Subject: <u>:</u>	Discharge	e Plan Renewal	Notice for the following Facilities:
GW- 013	Name	expires	07/15/2000
GW	Name	expires	
GW	Name	expires	
GW-	Name	expires	

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.

APALI=Ation 2/22/00

Conclusions of Agreements: Signed:

LouAnn Stearns fax 505-675-2339

CC:

OIL CONSERVATION DIVISION - DISTRICT I Hobbs - P.O. Box 1980 - Hobbs, NM 88241-1980 - (505) 393-6161 FAX (505) 393 - 0720

Roger Huderson TO: FROM: DONNA PITZER

ENERGY, MINERALS & RESOURCES DEPT. OIL CONSERVATION DIVISION DISTRICT I 1625 N French Dr Hobbs NM 88240

(505) 393-6161 EXT. 115

- ____ FOR YOUR FILES
- ____ FOR YOUR REVIEW & RETURN
- **FOR YOUR HANDLING**
- ____ AS PER YOUR REQUEST
- ____ PLEASE ADVISE
- ____ PREPARE A REPLY FOR MY SIGNATURE
- ____ FOR YOUR INFORMATION
- ____ FOR YOUR APPROVAL
- _____ FOR YOUR SIGNATURE
- FOR YOUR ATTENTION

Pg. 24344 is what we have in Hobbs well file. Pg. 5 received 10/25/99 Please call Chris



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505 675 2339 P.02

John R. Stearns dba Stearns

Phone (505) 675-2356 Fax (505) 675-2339 HC 65 Box 988 Crossroads, NM 88114

February 24, 2000

State of New Mexico Energy, Minerals and Natural Resources Dept. Oil Conservation Division 2040 S. Pacheco St., P.O. Box 2088 Santa Fe, NM 87501

This letter is to request changes to be made from the former ownership of C.K. Kinsolving dba Kenneth Tank Service, Kenneth Tank Service Brine Production Facility with Discharge Plan No. BW-013 to John R. Stearns dba Stearns. These changes have been discussed with Wayne Price and Roger Anderson.

John R. Stearns dba Stearns now operates the KTS Brine Production Facility in Lea County at the location of SE/4, SE/4, Sec.27, T9S, R35E. We request this change to be made on our discharge plan BW-013 and ownership of the brine well.

We also are requesting the release of the plugging bond on said well that is currently held by C.K. Kinsolving dba Kenneth Tank Service, Fireman's Fund Bond #SLR 6384300 be released and replaced by the blanket plugging bond held by John R. Stearns dba Stearns, RLI insurance Surety Bond No. <u>RLB001215</u>. (See attached copy of letter # <u>RLB000 1215</u> dated July 28, 1999 from Lori Wrotenbery stating approval of this bond by the OCD.) A completed C-104 is waiting in the Hobbs office for approval of this bond to transfer ownership.

The Discharge Plan BW-013 in the name of C.K. Kinsolving dba Kenneth Tank Service expires in July 2000. We are asking for a name change on the current plan (operations remain the same) and request renewal in the new name. Please find attached a renewal request in the name of John R. Stearns dba Stearns as well as a check for the \$50,00 filing fee.

We appreciate your help and guidance in getting this transfer done correctly and know this change will merely mean a continuation of our past experience with this facility.

Sincerely yours,

(añ

Lor Ann Steams John R. Steams dba Steams




NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

July 28, 1999

Mr. John R. Steams John R. Steams dba Steams P.O. Box 988 Crossroads, NM 88114

Re: \$50,000 Blanket Plugging Bond John R. Stearns dba Stearns, Principal RLI Insurance Company, Surety Bond No. RLB0001215

Dear Mr. Stearns:

....

The New Mexico Oil Conservation Division hereby approves the above-captioned blanket plugging bond.

Sincerely, wtenbenz Lord Wrotenbery. Director

LW/dp

cc: RLI Insurance Company 8 Greenway Plaza, Suite 400 Houston, TX 77046

FEB-24-20	00 15:25 STEARNS 505-675-2339	505 675 2339 P.04
	State of New Mexico Energy, Minerals and Natural Resources OIL CONSERVATION DIVISIO P.O. Box 2088 Santa Fe, NM 87501	Department DN
	DISCHARGE PLAN APPLICATION FOR BRINE EXT (Refer to OCD Guidelines for assistance in completing	TRACTION FACILITIES the application.)
		-) Bul-01-3
I.	FACILITY NAME: KTS Brine Production Fa	cility BW-013
II.	OPERATOR: John R. Stearns dba Stearns	
	ADDRESS: HC 65 Box 988 Crossroads,	NM 88114
	CONTACT PERSON: John R. or LouAnn Stea	rns PHONE:505-675-2356
fHI.	LOCATION: <u>SE</u> /4 <u>SE</u> /4 Section <u>27</u> Township Submit large scale topographic map showing	95 Range 35E exact location.
٤V.	Attach the name and address of the landowner of the fa	cility. site.
V. Se	e BW-013 Discharge Plan File 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 adversely impact fresh water.	hat brine extraction operations will not
X .	Attach such other information as is necessary to demon rules, regulations and/or orders.	strate compliance with any other OCD
XI.	Catch pit has been relined and brine lo CERTIFICATION	ading valves have Catch Basins.
	I hereby certify under penalty of law that I have personn information submitted in this document and all attachmen individuals immediately responsible for obtaining the inform accurate and complete. I am aware that there are significan including the possibility of fine and imprisonment.	naly examined and am familiar with the ts and that, based on my inquiry of those ation, I believe that the information is true, t penalties for submitting false information
	Name.Lou Ann Stearns Title:	Owner
	Signature: Jack Hannes Hant.	Date: February 24,2000

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

FAX to: WAyNe PRice OCD FAX # 505- 827-8177 Phone # 827-7155 FROM: Loutan StEARNS Phere # 505-675-2356 Date: 2/24/00 (over + 3 pages. Message . Place find copy of letter requesting Brins facility Mams Champer, et Copy of Ms. Writenbery's Letter, and renewal of SW-013 Discharge Plan request. HARd Copies AND \$50.00 app. fle will be mailed. Thank you . Jan Ann

Price, Wayne

From: Sent: To: Cc: Subject: Price, Wayne Wednesday, February 23, 2000 11:46 AM Williams, Chris; Pitzer, Donna Williams, Donna Kenneth Tank Ser. Brine Well Transfer





Memo223.doc





AEN I.D. 709348

American Environmental Network, Inc.



October 24, 1997

NMOCD 2040 S. PACHECO SANTA FE, NM 87505

Project Name/Number: BRINE WELLS

Attention: Mark Ashley

On **09/18/97**, American Environmental Network (NM) Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

All analyses were performed by American Environmental Network (AZ) Inc., 9830 S. 51st Street, Suite B-113, Phoenix, AZ.

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

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

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H. Mitchell Rubenstein, Ph.D. General Manager

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American Environmental Network, Inc.

CLIENT : NMOCD PROJECT # : (NONE) PROJECT BRINE WELLS DATE RECEIVED: 09/18/97

REPORT DATE :10/24/97

AEN ID: 70934	£8
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	AEN ID #	CLIENT DESCRIPTION	1	MATRIX	DATE COLLECTED
01	709348-01	9715090705	(WASSER)	AQUEOUS	09/15/97
02	709348-02	9709151015	(KEN#1)	AQUEOUS	09/15/97
03	709348-03	9709151045	(KEN#2)	AQUEOUS	09/15/97
04	709348-04	9709151100	(RANCH)	AQUEOUS	09/15/97
05	709348-05	9709160940	(CONOCO#3)	AQUEOUS	09/16/97
06	709348-06	9709160950	(CONOCO#1)	AQUEOUS	09/16/97
07	709348-07	9709161515	(BRINE#4)	AQUEOUS	09/16/97

---TOTALS---

MATRIX AQUEOUS <u>#SAMPLES</u> 7

AEN STANDARD DISPOSAL PRACTICE

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

AEN I.D. 709284

October 23, 1997

American Environmental Network-NM 2709-D Pan American Frwy, NE Albuquerque, NM 87107

Project Name/Number: NMOCD/709348

Attention: Kimberly D. McNeill

On 9/19/97, American Environmental Network (Arizona), Inc., received a request to analyze aqueous sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Due to matrix interferences, EPA method 300.0 - Bromide analysis of sample 709348-07 was performed at a dilution. The reporting limits have been raised accordingly.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman Project Manager LE/acc Enclosure

ADHS License No. AZ0061 Sherman McCutcheon, General Manager

Amer	rican Environmental	Network , Inc.			•
CLIENT PROJECT PROJECT	: AMERICA # : 709348 NAME : NMOCD	N ENV. NETWORK ATI I.D.	COF NM, INC : 709284	. DATE F REPORT	RECEIVED : 09/19/97
ATI #	CLIENT DES	CRIPTION		MATRIX	DATE COLLECTED
01 02 03 04 05 06 07	709348-01 709348-02 709348-03 709348-04 709348-05 709348-06 709348-07			AQUEOUS AQUEOUS AQUEOUS AQUEOUS AQUEOUS AQUEOUS AQUEOUS	09/15/97 09/15/97 09/15/97 09/16/97 09/16/97 09/16/97
=#=2526:		TO	======================================		
	MATRIX	# SAMPLES			
	AQUEOUS	7			

ATI STANDARD DISPOSAL PRACTICE

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

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GENERAL CHEMISTRY RESULTS

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GENERAL CHEMISTRY RESULTS

				ATI I.D. : 709284
CLIENT : AMERICAN ENV. PROJECT # : 709348	NETWORK	OF NM,	INC.	DATE RECEIVED : 09/19/97
PROJECT NAME : NMOCD				REPORT DATE : 10/23/97
PARAMETER	UNITS	06	07	
CARBONATE (CACO3)	MG/L	<1	4	
BICARBONATE (CACO3)	MG/L	2 7 5	65	
HYDROXIDE (CACO3)	MG/L	<1	<1	
TOTAL ALKALINITY (AS CACO3)	MG/L	275	69	
BROMIDE (EPA 300.0)	MG/L	1.5	<60	
CHLORIDE (EPA 325.2)	MG/L	230	43000	
CONDUCTIVITY, (UMHOS/CM)		1530	132000	
FLUORIDE (EPA 340.2)	MG/L	1.51	1.47	
PH (EPA 150.1)	UNITS	7.8	8.4	
SULFATE (EPA 375.2)	MG/L	170	1000	
T. DISSOLVED SOLIDS (160.1)	MG/L	1100	70000	

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : AMERICAN PROJECT # : 709348	I ENV.	NETWORK OF	NM, IN	С.				
PROJECT NAME : NMOCD				ATI	I.D.	: 7092	84	
			SAMPLE	DUP.		SPIKED	SPIKE	8
PARAMETER	UNITS	ATI I.D.	RESULT	RESULT	RPD	SAMPLE	CONC	REC
CARBONATE	MG/L	70928401	<1	<1	NA	NA	NA	NA
BICARBONATE	MG/L		156	156	0	NA	NA	NA
HYDROXIDE	MG/L		<1	<1	NA	NA	NA	NA
TOTAL ALKALINITY	MG/L		156	156	0	NA	NA	NA
BROMIDE	MG/L	70928406	1.5	1.5	0	3.5	1.5	133
CHLORIDE	MG/L	70915301	42	46	9	90	50	96
CONDUCTIVITY (UMHOS/CM)		70826103	831	834	0.4	NA	NA	NA
FLUORIDE	MG/L	70925001	2.76	2.73	1	5.75	3.00	100
PH	UNITS	70928401	8.0	8.1	1	NA	NA	NA
SULFATE	MG/L	70928401	50	50	0	150	100	100
SULFATE	MG/L	709 2 8402	180	200	11	390	200	105
SULFATE	MG/L	70914501	160	170	6	270	100	110
TOTAL DISSOLVED SOLIDS	MG/L	70928401	320	330	3	NA	NA	NA

METALS RESULTS

				ATI I.D.	: 709284	1
CLIENT : AMERICAN ENV. PROJECT # : 709348	NETWORK	OF NM, I	INC.	DATE REC	EIVED : (09/19/97
PROJECT NAME : NMOCD				REPORT D	ATE :	10/23/97
PARAMETER	UNITS	01	02	03	04	05
CALCIUM (EPA 200.7/6010) POTASSIUM (EPA 200.7/6010) MAGNESIUM (EPA 200.7/6010) SODIUM (EPA 200.7/6010)	MG/L MG/L MG/L MG/L	46.1 2.6 8.5 35.1	239 6.0 85.6 142	318 6.1 100 76.4	235 8.0 89.3 179	110 5.2 35.2 160

METALS RESULTS

•				ATI I.D. : 709284
CLIENT : AMERICAN ENV. PROJECT # : 709348	NETWORK	OF NM, 1	INC.	DATE RECEIVED : 09/19/97
PROJECT NAME : NMOCD				REPORT DATE : 10/23/97
PARAMETER	UNITS	06	07	
CALCIUM (EPA 200.7/6010) POTASSIUM (EPA 200.7/6010) MAGNESIUM (EPA 200.7/6010) SODIUM (EPA 200.7/6010)	MG/L MG/L MG/L MG/L	93.6 5.5 29.9 157	312 155 297 22800	

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METALS - QUALITY CONTROL

CLIENT PROJECT # PROJECT NAMI	: : : : : :	AMERICAN 709348 NMOCD	ENV. N	ETWORK OF	NM, INC	ATI	I.D.	: 70928	34	
PARAMETER			UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CALCIUM POTASSIUM MAGNESIUM SODIUM			MG/L MG/L MG/L MG/L	70928401 70928401 70928401 70928401 70928401	46.1 2.6 8.5 35.1	46.0 2.7 8.6 35.4	0.2 4 1 0.9	91.4 51.4 32.3 79.1	50.0 50.0 25.0 50.0	91 98 95 88

% Recovery = (Spike Sample Result - Sample Result)
Spike Concentration
RPD (Relative Percent Difference) = (Sample Result - Duplicate Result)
Average Result

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DATE OF ANALYSIS REPORT

23-Oct-97

METHOD	SAMPLE #	DATE	ANALYST
ALKALINITY (EPA 310.1)	01	09/22/97	MARLA WILSON
	02	09/22/97	MARLA WILSON
	03	09/22/97	MARLA WILSON
	04	09/22/97	MARLA WILSON
	05	09/22/97	MARLA WILSON
	06	09/22/97	MARLA WILSON
	07	09/22/97	MARLA WILSON
BROMIDE (EPA 300.0)	01	09/30/97	MARLA WILSON
	02	09/30/97	MARLA WILSON
	03	09/30/97	MARLA WILSON
	04	09/30/97	MARLA WILSON
	05	09/30/97	MARLA WILSON
	06	09/30/97	MARLA WILSON
	07	09/30/97	MARLA WILSON
CALCIUM (EPA 200.7/6010)	01	10/20/97	JACKIE L. CLEMENT
	02	10/20/97	JACKIE L. CLEMENT
	03	10/20/97	JACKIE L. CLEMENT
	04	10/20/9 7	JACKIE L. CLEMENT
	05	10/20/97	JACKIE L. CLEMENT
	06	10/20/97	JACKIE L. CLEMENT
	07	10/20/97	JACKIE L. CLEMENT
CHLORIDE (EPA 325.2)	01	09/21/97	CARLENE MCCUTCHEON
	02	09/21/97	CARLENE MCCUTCHEON
	03	09/21/97	CARLENE MCCUTCHEON
	04	09/21/97	CARLENE MCCUTCHEON
	05	09/21/97	CARLENE MCCUTCHEON
	06	09/21/97	CARLENE MCCUTCHEON
	07	09/21/97	CARLENE MCCUTCHEON
CONDUCTIVITY, (UMHOS/CM)	01	09/24/97	PAUL STRICKLER
	02	09/24/97	PAUL STRICKLER
	03	09/24/97	PAUL STRICKLER
	04	09/24/97	PAUL STRICKLER
	05	09/24/97	PAUL STRICKLER

Methods for Chemical Analysis of Water and Wastes, EPA-600 4-79-020, March 1983

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600-R-93/100

METHOD	SAMPLE #	DATE	ANALYST
CONDUCTIVITY, (UMHOS/CM)	06	09/24/97	PAUL STRICKLER
	07	09/24/97	PAUL STRICKLER
FLUORIDE (EPA 340.2)	01	10/03/97	MARLA WILSON
	02	10/03/97	MARLA WILSON
	03	10/03/97	MARLA WILSON
	04	10/03/97	MARLA WILSON
	05	10/03/97	MARLA WILSON
	06	10/03/97	MARLA WILSON
	07	10/03/97	MARLA WILSON
MAGNESIUM (EPA 200.7/6010)	01	10/20/97	JACKIE L. CLEMENT
	02	10/20/97	JACKIE L. CLEMENT
	03	10/20/97	JACKIE L. CLEMENT
	04	10/20/97	JACKIE L. CLEMENT
	05	10/20/97	JACKIE L. CLEMENT
	06	10/20/97	JACKIE L. CLEMENT
	07	10/20/97	JACKIE L. CLEMENT
PH (EPA 150.1)	01	09/22/97	MARLA WILSON
	02	09/22/97	MARLA WILSON
	03	09/22/97	MARLA WILSON
	04	09/22/97	MARLA WILSON
	05	09/22/97	MARLA WILSON
	06	09/22/97	MARLA WILSON
	07	09/22/97	MARLA WILSON
POTASSIUM (EPA 200.7/6010)	01	10/20/97	JACKIE L. CLEMENT
	02	10/20/97	JACKIE L. CLEMENT
	03	10/20/97	JACKIE L. CLEMENT
	04	10/20/97	JACKIE L. CLEMENT
	05	10/20/97	JACKIE L. CLEMENT
	06	10/20/97	JACKIE L. CLEMENT
	07	10/20/97	JACKIE L. CLEMENT
SODIUM (EPA 200.7/6010)	01	10/20/97	JACKIE L. CLEMENT
	02	I0/20/97	JACKIE L. CLEMENT
	03	10/20/97	JACKIE L. CLEMENT
	04	10/20/97	JACKIE L. CLEMENT
	05	10/20/97	JACKIE L. CLEMENT
	06	10/20/97	JACKIE L. CLEMENT

Methods for Chemical Analysis of Water and Wastes, EPA-600 4-79-020, March 1983

Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600-R-93/100

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метнор	SAMPLE #	DATE	ANALYST
SODIUM (EPA 200,7/6010)	07	10/20/97	JACKIE L. CLEMENT
SULFATE (EPA 375.2)	01	09/27/97	CARLENE MCCUTCHEON
	02	09/27/97	CARLENE MCCUTCHEON
	03	09/27/97	CARLENE MCCUTCHEON
	04	09/27/97	CARLENE MCCUTCHEON
	05	09/27/97	CARLENE MCCUTCHEON
	06	09/27/97	CARLENE MCCUTCHEON
	07	10/01/97	CARLENE MCCUTCHEON
T. DISSOLVED SOLIDS (160.1)	01	09/21/97	CARLENE MCCUTCHEON
	02	09/21/97	CARLENE MCCUTCHEON
	03	09/21/97	CARLENE MCCUTCHEON
	04	09/21/97	CARLENE MCCUTCHEON
	05	09/21/97	CARLENE MCCUTCHEON
	06	09/21/97	CARLENE MCCUTCHEON
	07	09/21/97	CARLENE MCCUTCHEON

Methods for Chemical Analysis of Water and Wastes, EPA-600 4-79-020, March 1983 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600-R-93/100

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DATE: 10-23-97

ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT:		70928401 709348-01 AMERICAN ENVII	RONMENTAL NETWOR	OF NM
ANIONS	RESULT MG/L	FACTOR ME/L	TOTAL	
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SiO3 (SILICON X 2.71) SULFATE	156.000 29.000 0.760 NA NA 50.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	3.12000 0.81809 0.04001 0.00000 0.00000 1.04100	
		TOTAL ANIONS		5.019096
CATIONS	RESULT	FACTOR	TOTAL	
CALCIUM POTASSIUM MAGNESIUM SODIUM	46.100 2.600 8.500 35.100	0.04990 0.02558 0.08229 0.04350	2.30039 0.06651 0.69947 1.52685	
		TOTAL CATIONS		4.593213
		%RPD (<10%)*		8.86
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	265.660 320 494	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	-18.56 0.65

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DATE: 10-23-97

ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT:		70928402 709348-02 AMERICAN ENVIRONMENTAL NETWORK OF								
ANIONS	RESULT MG/L	FACTOR ME/L	TOTAL							
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SiO3 (SILICON X 2.71) SULFATE	101.000 730.000 0.620 NA NA 180.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	2.02000 20.59330 0.03264 0.00000 0.00000 3.74760							
		TOTAL ANIONS		26.39354						
CATIONS	RESULT	FACTOR	TOTAL							
CALCIUM POTASSIUM MAGNESIUM SODIUM	239.000 6.000 85.600 142.000	0.04990 0.02558 0.08229 0.04350	11.9261 0.15348 7.04402 6.17700							
		TOTAL CATIONS		25.3006						
		%RPD (<10%)*		4.23						
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	1443.820 2000 2610	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	-32.30 0.77						

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DATE: 10-23-97

ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT:		70928403 709348-03 AMERICAN ENVIRONMENTAL NETWORK OF N								
ANIONS	RESULT MG/L	FACTOR ME/L	TOTAL							
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SiO3 (SILICON X 2.71) SULFATE	95.000 820.000 0.560 NA NA 170.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	1.90000 23.13220 0.02948 0.00000 0.00000 3.53940							
		TOTAL ANIONS		28.60108						
CATIONS	RESULT	FACTOR	TOTAL							
CALCIUM POTASSIUM MAGNESIUM SODIUM	318.000 6.100 100.000 76.400	0.04990 0.02558 0.08229 0.04350	15.8682 0.15604 8.22900 3.32340							
		TOTAL CATIONS		27.57664						
		%RPD (<10%)*		3.65						
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	1548.060 2000 2710	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	-25.48 0 74						

DATE: 10-23-97

ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT:		70928404 709348-04 AMERICAN ENVIRONMENTAL NETWORK OF 1										
ANIONS	RESULT MG/L	FACTOR ME/L	TOTAL									
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SiO3 (SILICON X 2.71) SULFATE	101.000 860.000 0.590 NA NA 200.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	2.02000 24.26060 0.03106 0.00000 0.00000 4.16400									
		TOTAL ANIONS		30.47566								
CATIONS	RESULT	FACTOR	TOTAL									
CALCIUM POTASSIUM MAGNESIUM SODIUM	235.000 8.000 89.300 179.000	0.04990 0.02558 0.08229 0.04350	11.7265 0.20464 7.34850 7.78650									
		TOTAL CATIONS		27.06614								
		%RPD (<10%)*		11.85								
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	1632.490 2000 2890	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	-20.23 0.69								

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DATE: 10-23-97

ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT:		70928405 709348-05 AMERICAN ENVIRONMENTAL NETWORK OF 1								
ANIONS	RESULT MG/L	FACTOR ME/L	TOTAL							
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SiO3 (SILICON X 2.71) SULFATE	293.000 230.000 1.750 NA NA 200.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	5.86000 6.48830 0.09212 0.00000 0.00000 4.16400							
		TOTAL ANIONS		16.60442						
CATIONS	RESULT	FACTOR	TOTAL							
CALCIUM POTASSIUM MAGNESIUM SODIUM	110.000 5.200 35.200 160.000	0.04990 0.02558 0.08229 0.04350	5.489 0.13302 2.89661 6.96000							
		TOTAL CATIONS		15.47862						
		%RPD (<10%)*		7.02						
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	917.950 1100 1610	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	-18.04 0.68						

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DATE: 10-23-97

ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT:		70928406 709348-06 AMERICAN ENVII	OF NM	
ANIONS	RESULT MG/L	FACTOR ME/L	TOTAL	
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SiO3 (SILICON X 2.71) SULFATE	275.000 230.000 1.510 NA NA 170.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	5.50000 6.48830 0.07949 0.00000 0.00000 3.53940	
		TOTAL ANIONS		15.60719
CATIONS	RESULT	FACTOR	TOTAL	
CALCIUM POTASSIUM MAGNESIUM SODIUM	93.600 5.500 29.900 157.000	0.04990 0.02558 0.08229 0.04350	4.67064 0.14069 2.46047 6.82950	
		TOTAL CATIONS		14.1013
		%RPD (<10%)*		10.14
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	852.510 1100 1530	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	-25.35 0.72

DATE: 10-23-97

ION BALANCE

AEN ACCESSION NUMBER: SAMPLE IDENTIFICATION: CLIENT:		70928407 709348-07 AMERICAN ENVIR	RONMENTAL NETWORK	OF NM
ANIONS	RESULT MG/L	FACTOR ME/L	TOTAL	
ALKALINITY (AS CACO3) CHLORIDE FLUORIDE NITRATE AS N (NO3(NO3-N X 4.43) SIO3 (SILICON X 2.71) SULFATE	65.000 43000.000 1.470 NA NA 1000.000	0.02000 0.02821 0.05264 0.01613 0.02629 0.02082	1.30000 1213.03000 0.07738 0.00000 0.00000 20.82000	
		TOTAL ANIONS		1235.227
CATIONS	RESULT	FACTOR	TOTAL	
CALCIUM POTASSIUM MAGNESIUM SODIUM	312.000 155.000 297.000 22800.000	0.04990 0.02558 0.08229 0.04350	15.5688 3.96490 24.44013 991.80000	
·		TOTAL CATIONS		1035.774
		%RPD (<10%)*		17.57
TOTAL ANIONS/CATIONS TOTAL DISSOLVED SOLIDS ELECTRICAL COND.	(CALCULATED) (ANALYZED)	67604.470 70000 132000	%RPD (<15%)* TDS/EC RATIO (0.65+/-0.10)	-3.48 0.53

American Environmental Network (NM), Inc. Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

PROJECT MANAGER:

ONLY.

ARE FOR LAB USE

SHADED AREAS

COMPLETELY.

FORM IN

THIS

PLEASE

BLUE ICE/ICE

970

MARK ASHLEY

CHAIN OF CUSTODY

AEN LAB I.D.

ANALYSIS REQUEST

24

1. S.

NUMBER OF CONTAINERS

COMPANY: ADDRESS: PHONE: FAX: BILL TO: COMPANY: ADDRESS:	NM749 2040 S SANTA F (505) 827 (605) 827 (605) 827	ACHI E, NM 1-7155 -8177	<0 87	505		troleum Hydrocarbons (418.1) TRPH	OD.8015) Diesel/Direct/Inject		8015) Gas/Purge & Trap 	SUILIER A WILDE (MOULD/OUZU) XE/MTRE (8020)	EX & Chlorinated Aromatics (602/8020)	EX/MTBE/EDC & EDB (8020/8010/Short)	lorinated Hydrocarbons (601/8010)		4 EDB / DBCP	lynuclear Aromatics (610/8310)	latile Organics (624/8240) GC/MS	latile Organics (8260) GC/MS	stinides/PCB (608/8080)	rbicides (615/8150)	se/Neutral/Acid Compounds GC:MS (625/8270)		eneral Chemistry: THEW #25		ority Pollutant Metals (13)	get Analyte List Metals (23)	CRA Metals (8)	CRA Metals by TCLP (Method 1311)	stals:	MBER OF CONTAINERS
SAMF	LE ID	DATE	TIME	MATRIX	LAB I.D.	ď	Σ	-+	Ξi	<u>ة اق</u>			히	_	50	a	2	<u>></u>	ď	Ξ	Ba				لم	Ta	Ĕ	Ĕ	Ž	ļž
97150907	125 (WASSER)	9+15-97	7,2504	1 1/20	-01			_+		_							-		_	_			쓰		–			_		4
970915/015	(KEN 41)	9-15-9)	Dilsam	5	-02			_											_		┢		쓰		4		\vdash			Ľ
9709151045(KEV #2)	9-15-99	104524	<u>b</u>	-03			_			_			_					_	_			\times			ļ!	┝──┤	-+		4
97915/100 (RANCH)	9-15-97	1,00Auj	1>	-04				_	+	_												스		<u> </u>	\vdash	┝──┤	\rightarrow		4
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4/1/96 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107

From Field

DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR

American Environmental Network (NM), Inc.

American Environmental Network Albuqueique, New Mexico

Interlab Chain of Custody



NETWORK PROJECT MANAGER: KIMBERLY	D. McNEILL	St. Charles in the			ANALYSIS I	RQUEST	UEST							
COMPANY: American Environ ADDRESS: 2709-D Pan American Free Albuquerque, NM 87107 CUENT PROJECT MANAGER: <u>Kim McNeill</u>	etals - TAL etals - PP List etals - RCRA	CRA Metals by TCLP (1311) or 1:0-1 /Anion Bulance See DX DC	en Chemistry	l and Grease DD DD SetringevPCA (608/8080)	erorcutes (615/8150) serNeutral Actd Combounds GCMS (625:6270) itanle Organics GC/MS (624/8240) itanuctear Aromatics (610/8310)	40 (TCLP 1311) ZHE T0 (TCLP 1311) -11 0-11 css Alena/Bera	HBER OF CONTAINERS							
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Recharked by ; BP

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

	PROJECT MANAGER: MARK ASULEY		102) 	ι. Mateir	1.4.154	្រុះពន្លេះ	14.46	影合行	AN	ALY	SIS F	EQ	UES	BT .		i i seri se			are.		
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DISTRIBUTION. White, Carrary - AEN Pink - ORIGINATOR

AEN LAB I.D. 709 348

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To: 20	M. Oil Conservation Division 040 South Pacheco anta Fe. NM 87505	OCT 291	997		Date	Invoice
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2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (602) 344-4413

à 2 MAILING ADDRESS KENNETH TANK SERVICE PHONE: 505-675-2356 **BOX 100** 505-675-2357 CROSSROADS, N.M. 88114 CROSSROADS, NEW MEXICO 88114 G August 24, 1998 AUG 28 1998 **Roger Anderson** NUL CONSERVATION D **Oil Conservation Division** 2040 South Pacheco Street Santa Fe, New Mexico 87505

RE: Kenneth Tank Service Brine Production Facility BW-13 Lea County, New Mexico

Dear Mr. Anderson:

This letter is in reponse to the letter received from the New Mexico Energy, Minerals, and Natural Resources Department dated May 28, 1998. In this letter the Oil Conservation Division (OCD) requested additional information concerning the brine production facility. The requested information is included with this letter:

- 1. Sketched location of ground water wells within a one mile radius of the brine well.
- 2. Cation/anion chemical analysis of the wells within a one mile radius.
- 3. Discussion of the site hydrogeology which includes ground water depths and gradient maps.

We feel that the variations in the water quality is natural for this area. We recommend that no further action be required on the question of ground water contamination by our brine facility. We respect the importance of protecting our water supply and appreciate you working with us on this matter.

Sincerely

Lou Ann Stearns

Enclosures

Ground water wells within 1 mile radius of brine well:

3

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- **#** Brine Well: Sec. 27, T9S, R35E (SE1/4, SE1/4, SE1/4)
- 1) West well-water station
- 2) South well-water station
- 3) East mill
- 4) East submersible
- 5) Bonds submersible
- 6) CWK submersible
- 7) CWK mill

Pro-Kem, Inc. WATER ANALYSIS REPORT

Sample Loc. :

Date Analyzed: 08-June-1998

Date Sampled : 26-May-1998

#

SAMPLE

Oil Co. : K T S Lease : West Well Well No .: Fresh Water Lab No. :

ANALYSIS

1. pH 2. Specific Gravity 60/60 F. 3. CaCO ₃ Saturation Index @ 80 F0. @ 140 F. +0.	047 723			
Dissolved Gasses	MG/L	EQ. WT.	*MEQ/L	
4. Hydrogen SulfideNot5. Carbon DioxideNot Det6. Dissolved OxygenNot Det	Present ermined ermined			
Cations				
7. Calcium (Ca++) 8. Magnesium (Mg++) 9. Sodium (Na+) (Calculated) 10. Barium (Ba++)	365 126 144 0	/ 20.1 = / 12.2 = / 23.0 = / 68.7 =	18.16 10.33 6.26 0.00	
Anions				
11. Hydroxyl (OH^-) 12. Carbonate $(CO_3^=)$ 13. Bicarbonate (HCO_3^-) 14. Sulfate $(SO_4^=)$ 15. Chloride (Cl^-)	0 0 137 210 1,000	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 =	$0.00 \\ 0.00 \\ 2.24 \\ 4.30 \\ 28.17$	
 Total Dissolved Solids Total Iron (Fe) Total Hardness As CaCO₃ Resistivity @ 75 F. (Calculated) 3 	1,982 3 1,431 .427 /cm.	/ 18.2 =	0.14	
LOGARITHMIC WATER PATTERN *meq/L.	PROBA COMPOUND	BLE MINERAL EQ. WT. X	COMPOSIT: *meq/L =	ION mg/L.
Na - 	Ca (HCO3)	2 81.04	2.24	182
	CaSO4	68.07	4.30	293
Mg	CaCl ₂	55.50	11.61	645
Fe = 10000 1000 100 100 10 1 10 100 1000 10000 10000 10000 1000 1000 1000 1000 1000 10000 10000 10000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 1000000	Mg(HCO3)	2 73.17	0.00	0
Calcium Sulfate Solubility Profile	MgSO4	60.19	0.00	0
	MgCL2	47.62	10.33	492
961 930	NaHCO3	84.00	0.00	0
L 923 L 922 469 464	$NaSO_4$	71.03	0.00	0
823 800 Temp *F. 38 78 98 118 138 158 178	NaCl *Mill	58.46 i Equivale n	6.23 Its per Li	364 ter

Pro-Kem, Inc.

Sample Loc. :

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : N/A

î

Lease : Brine Station Date Analyzed: 20-July-1998 Well No.: South Fresh Water Date Sampled : 13-July-1998 Lab No. : ANALYSIS pH Specific Gravity 60/60 F. **1.008** CaCO₃ Saturation Index © 80 F. +0.164 © 140 F. +0.864 1. 2. 3. Dissolved Gasses MG/L EQ. WT. Hydrogen Sulfide Carbon Dioxide Dissolved Oxygen Not Present Not Determined Not Determined 4. 5. 6. Cations 7. 292 107 274 Calcium (Ca++) 20.1 12.2 23.0 (Mg++) (Na+) (Ba++) = 8. Magnesium E <u>9</u>. Sodium (Calculated) 10. Below 10 Barium Anions $\begin{array}{c} (OH^{-}) \\ (CO_{3}^{=}) \\ (HCO_{3}^{-}) \\ (SO_{4}^{=}) \\ (C1^{-}) \end{array}$ 17.0 = 30.0 = 61.1 = 48.8 = 35.5 = 11. Hydroxyl 0 12. 13. Carbonate Bicarbonate Ó $14\tilde{6}$ 22514. Sulfate 1,000 15. Chloride Total Dissolved Solids Total Iron (Fe) Total Hardness As CaCO₃ Resistivity @ 75 F. (Calculated) 16. 2,044 ī7. 3 / 18.2 = 1,1713.385 /cm. 18. 19. LOGARITHMIC WATER PATTERN *meq/L. 1 1 1 1 1 1 - | | | ||||||| HIIII HCO3 ╢╢┼┤ +++++ ++++++ Mg SO4

+++++++ CO3

100 1000, 10000

1 Calcium Sulfate Solubility Profile

10

10

10000 1000 100



· - · - / - ····			
PROBABI COMPOUND	LE MINERAL EQ. WT. X	COMPOSITI *meq/L =	ON mg/L.
$Ca(HCO_3)_2$	81.04	2.39	194
CaSO4	68.07	4.61	314
CaCl ₂	55.50	7.53	418
Mg (HCO ₃) $_2$	73.17	0.00	0
MgSO4	60.19	0.00	0
MgCL ₂	47.62	8.77	418
NaHCO3	84.00	0.00	0
NaSO4	71.03	0.00	0
NaCl *Milli	58.46 Equivalen	11.87 ts per Li t	694 .er

*MEQ/L

14.538.77 11.91

0.00

0.00

4.61

0.14

28.17

Pro-Kem, Inc.

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : N/A Lease : Mill Well No .: East Fresh Water Lab No. :

Sample Loc. : Date Analyzed: 20-July-1998 Date Sampled : 13-July-1998

ANALYSIS



Pro-Kem, Inc

WATER ANALYSIS REPORT

7.290 1.005 80 F. +0.077 140 F. +0.777

Not Present Not Determined

Sample Loc. :

MG/L

Date Analyzed: 20-July-1998

Date Sampled : 13-July-1998

EQ. WT.

17.0 30.0 61.1 48.8 35.5

/ 18.2 =

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II 11

SAMPLE

Oil Co. : N/A Lease : Submersible Well No.: East Fresh Water Lab No. : ANALYSIS 1. pH 2. Specific Gravity 60/60 F. 3. CaCO3 Saturation Index @ @

Dissolved Gasses

4.	Hvdrogen	Sulfide

- 5. Carbon Dioxide 6. Dissolved Oxygen
- . Draporved ovyden

ca	τı	ons
-	_	_

7. 8. 9. 10.	Calcium Magnesium Sodium Barium	(Ca++) (Mg++) (Na+) (Ba++)	(Calculated)	208 126 195 Below 10	/ 20.1 = / 12.2 = / 23.0 =	10.35 10.33 8.48
-						

Anions

-

Fe

10000 1000 100

Mg IIIII

11. 12. 13. 14. 15.	Hydroxyl Carbonate Bicarbonate Sulfate Chloride	$ \begin{array}{c} (OH^{-}) \\ (CO_{3}^{-}) \\ (HCO_{3}^{-}) \\ (SO_{4}^{-}) \\ (C1^{-}) \end{array} $
16.	Total Dissol	ved Solids
17.	Total Iron	(Fe)
18.	Total Hardne	ss As CaCO3
19.	Resistivity	@ 75 F. (Calculated)

LOGARITHMIC WATER PATTERN *meq/L.

1

Calcium Sulfate Solubility Profile

10

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10

++++++

138

118

158

178

100 1000 10000

-| |||||||

HCO3

SO4

1,041 3.851 /cm.

1,676

0

PROBABI COMPOUND	E MINERAL EQ. WT. X	COMPOSITI *meq/L =	ON mg/L.
$Ca(HCO_3)_2$	81.04	2.08	168
CaSO4	68.07	4.51	307
CaCl ₂	55.50	3.76	209
Mg (HCO3) 2	73.17	0.00	0
MgSO4	60.19	0.00	0
MgCL2	47.62	10.33	492
NaHCO3	84.00	0.00	0
NaSO4	71.03	0.00	0
NaCl *Milli	58.46 Equivalent	8.45 ts per Lit	494 .er

*MEQ/L

0.00

0.00 2.08 4.51 22.54

0.11

Pro-Kem, In.

WATER ANALYSIS REPORT

#5

SAMPLE

Oil Co. Lease Well No. Lab No.	: N/A : Bonds : Fresh Water ;		Sam <u>r</u> Date Date	ole Loc. : Analyzed: Sampled :	20-July-1998 13-July-1998		
ANAI	LYSIS						
1. 2. 3.	pH Specific Gra CaCO3 Satura	vity 60/60 F. tion Index @ 8 @ 14	7.480 1.003 0 F. +0.	245			
	issolved Gass	<u>es</u>		MG/L	EQ. WT.	*MEQ/L	
4. 56.	Hydrogen Sul Carbon Dioxi Dissolved Ox	fide de ygen	Not Not Det Not Det	Present ermined ermined			
7. 8. 9. 10.	Calcium Calcium Magnesium Sodium Barium	(Ca++) (Mg++) (Na+) (Calcul) (Ba++)	ated) Not Det	156 44 290 ermined	/ 20.1 = / 12.2 = / 23.0 =	7.76 3.61 12.61	
11. 12. 13. 14. 15.	nions Hydroxyl Carbonate Bicarbonate Sulfate Chloride	(OH ⁻) (CO ₃ ⁻) (HCO ₃ ⁻) (SO ₄ ⁻) (C1 ⁻)		0 161 350 500	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 =	0.00 0.00 2.64 7.17 14.08	
16. 17. 18. 19.	Total Dissol Total Iron Total Hardne Resistivity	ved Solids (Fe) ss As CaCO3 @ 75 F. (Calcul	ated) 4	1,501 573 .457 /cm.	/ 18.2 =	0.11	
	LOGARITHMIC *me	WATER PATTERN g/L.		PROB	BLE MINERAL EQ. WT. X	COMPOSITI *meq/L =	ON mg/L.
Na	MARET - MARET - MARET - MARET - MARINE		Cl	Ca (HCO3)	2 81.04	2.64	214
Ca	 		нсоз	CaSO4	68.07	5.13	349
Mg			SO4	CaCl ₂	55.50	0.00	0
Fe	 		CO3	Mg (HCO3)	2 73.17	0.00	0
100	00 1000 100 10	1 10 100 1000 1000 Solubility Prof)) 11 0	MgSO4	60.19	2.05	123
			179	MgCL2	47.62	1.56	74
-				NaHCO3	84.00	0.00	0
/ L				NaSO4	71.03	0.00	0
	1010			- NaCl	58.46	12.52	732
This wa	ter is mildly	tie 136 156 176 corrosive due ncreased by the	to the p	*Mil: H observed of minera	li Equivale n d on analysi al salts in	ts per Lit s. solution.	er

Pro-Kem, Inc WATER ANALYSIS REPORT

SAMPLE

Oil Co. : N/A Lease : Submersible Well No .: CWK Fresh Water Lab No. :

ANALYSIS

pH Specific Gravity 60/60 F. CaCO₃ Saturation Index @ @ J 7.050 1 2: 80 F. +0.188 140 F. +0.998 З. Dissolved Gasses MG/L EQ. WT. *MEQ/L Hydrogen Sulfide Carbon Dioxide Dissolved Oxygen Not Present 4. 5. Not Determined Not Determined 6. Cations (Ca++) (Mg++) (Na+) 7. 834 316 Calcium 20.112.223.041.49 8. 25.9011.04 Magnesium 9. 254 Sodium (Calculated) (Ba++) 10. Barium Below 10 Anions 17.030.061.148.835.5Hydroxyl (<u>OH-</u>) 0 0.00 11. (CO3=) (HCO3=) 12. 13. Carbonate Bicarbonate Sulfațe 0.00 0 = 15**6** •) = (SO4 (C1) 5.53 70.39 14. 270 -15. Chloride 2, 499 = 16. Total Dissolved Solids 4,329 Total Iron (Fe) Total Hardness As CaCO₃ Resistivity @ 75 F. (Calculated) 17. 1,383 1,349 /cm. / 18.2 = 0.05 18. 19. LOGARITHMIC WATER PATTERN *meg/L. 'PROBABLE MINERAL COMPOSITION POUND EQ. WT. X *meq/L = mg/L. COMPOUND $Ca(HCO_3)_2$ 81.04 2.55 ++++1111 нсоз Ca CaSO₄ 68.07 5.53 7## CaCl₂ Mg ╶╂╼╂╺┨╏╏╢╢┫╌╌┨╸┫╏╏╢╢╢ SO4 55.50 33.41 1,854 Fe ╢╢┤ ++++++++ CO3 $Mg(HCO_3)_2$ 73.17 0.00 10000 1000 100 10 1 10 100 1000 10000 0.00 MgSO₄ 60.19 Calcium Sulfate Solubility Profile 1440 MgCL₂ 47.62 25.90 1,233 1483 -1444 1242 -NaHCO3 84.00 0.00 1378 1255 1338 71.03 NaSO₄ 0.00 L 1321 1384 1247 NaCl 58.46 11.09 1278 *Milli Equivalents per Liter 110 158 170 Temp *7. 10 7. 9.0 138

This water is mildly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts in solution.

Sample Loc. : Date Analyzed: 20-July-1998 Date Sampled : 13-July-1998

207

377

0

0

0

0

648
Pro-Kem, Inc.

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : N/A Lease : Mill Well No.: CWK Fesh Water Lab No. :

Sample Loc. : Date Analyzed: 20-July-1998 Date Sampled : 13-July-1998 #1

ANALYSIS

1. pH 2. Specific Gravity 60/60 F. 1.008 3. CaCO ₃ Saturation Index @ 80 F. +0.	058			
Dissolved Gasses	MG/L	EQ. WT.	*MEQ/L	
4. Hydrogen Sulfide Not 5. Carbon Dioxide Not Det 6. Dissolved Oxygen Not Det	Present ermined ermined			
Cations				
7. Calcium (Ca++) 8. Magnesium (Mg++) 9. Sodium (Na+) (Calculated) 10. Barium (Ba++) B	521 / 316 / 135 / elow 10	20.1 = 12.2 = 23.0 =	25.92 25.90 5.87	
Anions				
11. Hydroxyl (OH ⁻) 12. Carbonate (CO ₃ ⁼) 13. Bicarbonate (HCO ₃ ⁻) 14. Sulfate (SO ₄ ⁻) 15. Chloride (Cl ⁻)	0 / 122 / 245 / 1,800 /	17.0 = 30.0 = 61.1 = 48.8 = 35.5 =	0.00 2.00 5.02 50.70	
 16. Total Dissolved Solids 17. Total Iron (Fe) 18. Total Hardness As CaCO₃ 19. Resistivity @ 75 F. (Calculated) 2 	3,139 2,602 1.100 /cm.	18.2 =	0.14	
LOGARITHMIC WATER PATTERN *moq/L.	PROBAB COMPOUND	LE MINERAL EQ. WT. X	COMPOSITI *meg/L =	ON mg/L.
Na ####################################	Ca (HCO3) 2	81.04	2.00	162
	CaSO4	68.07	5.02	342
	CaCl ₂	55.50	18.90	1,049
Fe WHILL WHILL WHILL WHILL HILL HILL HILL	Mg (HCO3) 2	73.17	0.00	0
Calcium Sulfate Solubility Profile	MgSO4	60.19	0.00	0
	MgCL ₂	47.62	25.90	1,233
	NaHCO3	84.00	0.00	0
	NaSO4	71.03	0.00	0

This water is mildly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts in solution.



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DISCHARGE PLAN FOR KENNETH TANK SERVICE BRINE PRODUCTION FACILITY CROSSROADS, NEW MEXICO

August 6, 1984

Prepared for:

C.K. Kinsolving Kenneth Tank Service Crossroads, New Mexico 88114

Prepared by:

Geoscience Consultants, Ltd. 500 Copper Ave NW Suite 220 Albuquerque, New Mexico 87102

4.0 SITE HYDROGEOLOGY

4.1 WATER BEARING ROCKS

The brine facility lies on the northern edge of the Permian Basin in the High Plains physiographic province. Figure 4-1 shows the stratigraphy of the eastern High Plains of New Mexico. Like most sedimentary basins, much of the thick sequence of limestones, sandstones shales and evaporites do not yield usable ground water. A summary of the water bearing rocks between the injection zone and the ground surface immediately below the injection zone is presented below.

4.1.1 Ogallala Formation

A thin veneer of quaternary alluvial and aeolian deposits overlie the Ogallala Formation in the Crossroads area (Figure 4-2). The Ogallala consists of unconsolidated fine sand with minor amounts of clay, coarse sand, caliche and gravel. Although the unit is the principal aquifer of the High Plains and yields good quality water in much of northern Lea County; the quality deteriorates significantly near saline playa lakes (Figure 4-3). The unit is approximately 130 feet thick at the site (Figure 4-5, Figure 4-6 and Appendix B).

4.1.2 Tucumcari Shale

Underlying the Ogallala is the basal sand unit of the Tucumcari Shale. Post Cretaceous erosion has removed most of the shale and the remainder of this water-producing unit is only 10-20 feet thick at the site (see Appendix B). Despite minimal saturated thickness in the area, the basal sand is capable of producing sufficient water, of adequate quality, for the brine

4-1





Figure 4-2

Geologic Map of Eastern High Plains. Brine facility circled (NMGS, 1983)



7

Figure 4-3 Depth to water and water quality of Northern portion of Lea County (Ash, 1963). Legend on Figure 4-4.

EXPLANATION





Figure 4-4 Legend for Figure 4-3.



Figure 4-5 Map of Northern Lea County showing topography and elevation of post-Mesozoic erosional surface and water quality (Ash 1963). Legend is Figure 4-6.





Figure 4-6 Explanation for Figure 4-5.

station and scattered stock wells.

The hydraulic characteristics of this aquifer are reported by ranchers and drillers to be quite variable. The location of ranch houses in the area often corresponds to the only place on the property with available ground water. The fresh water wells at the brine station are one of the few wells in the area capable of supporting large withdrawals.

4.1.3 Dockham Group

The Triassic red beds of the Dockham Group (Chinle Formation equivalent) and the anhydrites of the Rustler Formation underlie the Cretaceous Section. The upper 1,200 feet of the Dockam Group is predominantly reddish shale but does include minor amounts of sandstone conglomerate and limestone. The lack of porous formations is evident by the electric log cross section through the site (Figure 4-7 and see Appendix B). Porous units which are penetrated in area oil tests (eg 525 foot depth in Magnolia Glenn well) are not continuous throughout the area. This is typical of the alluvial deposits that comprise the Chinle Formation.

The evaporites of the Rustler Formation are not water bearing. The anhydrites do form an excellent seal above the underlying injection zone. Not only are these evaporite units virtually impermeable but any fractures or conduits which may have formed over time tend to "heal" by recrystallization of the anhydrite in fractures.

Both the anhydrite and the overlying rocks are continuous throughout northern Lea County.

4-8



Figure 4-7 Geophysical log cross-section between ground surface and injection zone. Gamma-ray trace on left, neutron trace on right. Large-scale logs are in Appendix B with map showing location of cross section.

4.1.4 Salado Formation

The injection zone of the brine well comprises all of the 500 feet Salado Formation (Figure 4-7). The Salado consists of inter-bedded halite, polyhalite, anhydrite and minor amounts of other evaporites.

The only fluid known to be present in the Salado in this area is the saturated brine in the solution cavity surrounding the well.

4.1.5 Guadalupe Series

Permian marine limestones, shales, evaporites and sandstones underlie the Salado. These units produce much of the oil in the northern and western Permian Basin. An analysis of formation water produced from the San Andres Formation is shown in Figure 4-8. As is evident, these units contain water far in excess of 10,000 mg/1 TDS.

4.2 MOVEMENT OF GROUND WATER

It is apparent from the previous discussion that a dependable supply of usable ground water exists only in the basal sandstone of the Tucumcari Shale. Ground water may be present in discontinuous sandstone units of the Chinle Formation; however, potential Triassic aquifers at the site (if they were encountered) are at depths which precludes development. The overlying Cenozoic sediments which are good aquifers in some portions of Northern Lea County are not saturated in the site area.

Figure 4-9 shows the water table elevation in the only potential water bearing zone (Tucumcari Shale). In the site

4-10

ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

Data prepared by: Larry D. Rider Affiliation: Mobil Oil Company Date: July 22, 1960 Field Name: Crossroads Slaughter San Andres Location: Sec. 20, 29, 30, 31, T. 9 S., R. 36 E. County & State: Lea Co., N. Mex.

DISCOVERY WELL: Magnolia #1 Santa Fe "A" PAY ZONE: San Andres, 4,837 feet. Fine crystalline, brown dolomite with variable zones of pinpoint to intercrystalline porosity.

NATUR	OF PRODUCING Z	ONE WATER	<u>l:</u>			Resistivity:	. 04		hm-meters @	<u>9</u> 100	°F.
	Total Solids	No+K	Ca	Mg	Fe	SO4	CI	CO1	HCO ₈	OH	HiS
ppm	256626	90015	6202	2611	1	1115	156550		114		

INITIAL FIELD PRESSURE: TYPE OF DRIVE: Water NORMAL COMPLETION PRACTICES:

> Figure 4-8 Analysis of formation water in San Andres Formation (Guadalupe Series) from Crossroads oil field (Roswell Geological Society, 1960)



Figure 4-9 Water table elevations (feet) in northern Lea County for Mesozoic and Cenosoic deposits. Brine well shown as dry hole. Solid circles are water wells used in survey (Ash, 1963).

area, the natural gradient (20 feet per mile) is generally easterly. The local gradient at the site is influenced by pumping of the fresh water production wells at the site retarding or possibly locally reversing regional flow direction.

4.3 STRUCTURE

The sub-surface geology of the area is well known due to numerous oil tests. Figure 4-10 is a structure map draw on the top of the San Andres Formation of the area demonstrating the absence of faults and showing the gentle southeast dip into the Permian Basin.



Figure 4-10 Structure Map of Northern Lea County



NEW MEXICO FERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

May 28, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-288-259-072

Mrs. L. A. Stearns Kenneth Tank Services P.O. Box 100 Crossroads, New Mexico 88114

RE: **Ground Water Remediation** Kenneth Tank Services Brine Production Facility BW-13 Lea County, New Mexico

Dear Mrs. Stearns:

The New Mexico Oil Conservation Division (OCD) has completed a review of the Kenneth Tank Services (Kenneth) letter dated April 1, 1998. It contains Kenneth's response to the OCD for a ground water investigation work plan at Kenneth's brine production facility. The work plan was required by the OCD in a letter dated October 30, 1997. Based on the information provided, the OCD is requiring the following additional information before a ground water investigation work plan can be approved:

- 1. Identify all ground water wells within a one mile radius of Kenneth's brine injection well.
- 2. Provide a cation/anion chemical analysis of the wells within the one mile radius.
- 3. Provide a ground water depth and gradient map.
- 4. Kenneth will submit a report containing the above mentioned information to the OCD by August 28, 1998. The report will also include recommendations for future actions based on the results of ground water sampling.

If Kenneth has any further questions or comments please contact me at (505)-827-7155.

Sincerely, and hahlen

Mark Ashley Geologist

xc: **OCD Hobbs Office**

PS Form 3	800,	April	1995	5								
Postmark or Date	TOTAL Postage & Fees	Return Receipt Showing to Whom, Date, & Addressee's Address	Return Receipt Showing to Whom & Date Delivered	Restricted Delivery Fee	Special Delivery Fee	Certified Fee	Postage	Post Office, State, & ZIP Cod	Street & Number	Sent to	JS Postal Service Receipt for Cert No Insurance Coverage I Do not use for Internation	52 892 d
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KENNETH TANK SERVICE

PHONE: 505-675-2356 505-675-2357

Crude and Water Transports CROSSROADS, NEW MEXICO 88114

April I, 1998

15 UL CONSERVATION DIVISION

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

RE: Kenneth Tank Service Brine Production Facility BW-13

Dear Mr. Ashley:

In cooperation with your office we are continuing to closely monitor the quality of the ground water in the vicinity of our brine facility. Detailed reports are attached.

As expected from historical data, the Chlorides and Total Dissolved Solids continue to fluctuate. Unless directed differently by your request, we will forward the next analysis to your office, July 1, 1998. We appreciate working with you on this project.

Sincerely yours

Lou Ann Stearns

Enclosures

Pro-Kem, Inc.

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WATER ANALYSIS REPORT

SAMPLE

Oil Co. : K T S Lease : N/A Well No.: West Well Salesman:

. 18

Sample Loc. : Formation Date Analyzed: 25-March-1998

ANALYSIS

2. Specific Gravity 60/60 F. 1.006 3. CaCO3 Saturation Index @ 80 F. +0.	418			
Dissolved Gasses	MG/L	EQ. WT.	*MEQ/L	
4. Hydrogen SulfideNot5. Carbon DioxideNot Det6. Dissolved OxygenNot Det	Present ermined ermined			
Cations (Catt)	4 4 - (
7.Calcum(Ca++)8.Magnesium(Mg++)9.Sodium(Na+)10.Barium(Ba++) B	417 / 126 / 90 / elow 10	20.1 = 12.2 = 23.0 =	20.75 10.33 3.91	
Anions				
11. Hydroxyl (OH ⁻) 12. Carbonate (CO3 ⁼)		17.0 = 30.0 =	0.00	
13. Bicarbonate (HCO_3^{-1}) 14. Sulfate (SO_4^{-1}) 15. Chloride (Cl^{-1})	146 / 215 / 1,000 /	61.1 = 48.8 = 35.5 =	2.39 4.41 28.17	
 Total Dissolved Solids Total Iron (Fe) Total Hardness As CaCO₃ Resistivity @ 75 F. (Calculated) 3 	1,994 1 / 1,561 .427 /cm.	18.2 =	0.05	
LOGARITHMIC WATER PATTERN *meq/L.	PROBAB	LE MINERAL	COMPOSITI	ON
	COMPOUND	EQ. WT. X	meq/L =	mg/L.
Na ####################################	$Ca(HCO_3)_2$	EQ. WT. X 81.04	*meg/L = 2.39	mg/L. 194
Na ####################################	Ca (HCO ₃) ₂ CaSO ₄	EQ. WT. X 81.04 68.07	*meg/L = 2.39 4.41	mg/L. 194 300
Na ####################################	$Ca (HCO_3)_2$ $CaSO_4$ $CaCl_2$	EQ. WT. X 81.04 68.07 55.50	*meg/L = 2.39 4.41 13.95	mg/L. 194 300 774
Na Image: Cl Ca Image: Cl Mg Image: Cl Mg Image: Cl Fe Image: Cl 10000 1000 10000 1000	$Ca (HCO_3)_2$ $CaSO_4$ $CaCl_2$ $Mg (HCO_3)_2$	EQ. WT. X 81.04 68.07 55.50 73.17	*meg/L = 2.39 4.41 13.95 0.00	mg/L. 194 300 774 0
Na Image: Analytic field of the field	$Ca (HCO_3)_2$ $CaSO_4$ $CaCl_2$ $Mg (HCO_3)_2$ $MgSO_4$	EQ. WT. X 81.04 68.07 55.50 73.17 60.19	*meg/L = 2.39 4.41 13.95 0.00	mg/L. 194 300 774 0 0
Na HHH HHH Cl Ca HHH HHH HHH HHH HHH Cl Ca HHH HHH HHH HHH HHH Cl Mg HH HHH HHH HHH HHH HHH SO4 Fe HHH HHH HHH HHH CO3 10000 1000 100 10 1 10 100 1000 10000 Calcium Sulfate Solubility Profile	$Ca (HCO_3)_2$ $CaSO_4$ $CaCl_2$ $Mg (HCO_3)_2$ $MgSO_4$ $MgCL_2$	EQ. WT. X 81.04 68.07 55.50 73.17 60.19 47.62	*meg/L = 2.39 4.41 13.95 0.00 0.00 10.33	mg/L. 194 300 774 0 0 492
Na HHH HHH Cl Ca HHH HHH HHH HHH HHH Cl Ca HHH HHH HHH HHH HCC3 Mg HHH HHH HHH HHH HHH CC3 Mg HHH HHH HHH HHH HHH CC3 SO4 Fe HHH HHH HHH HHH HHH CC3 CO3 10000 1000 100 10 10 1 10 100 1000 100	Ca (HCO ₃) ₂ CaSO ₄ CaCl ₂ Mg (HCO ₃) ₂ MgSO ₄ MgCL ₂ NaHCO ₃	EQ. WT. X 81.04 68.07 55.50 73.17 60.19 47.62 84.00	*meg/L = 2.39 4.41 13.95 0.00 0.00 10.33 0.00	mg/L. 194 300 774 0 0 492 0
Na H Cl Ca H Cl Mg H H CO3 Mg H H CO3 Mg H Cl Fe H Cl 10000 1000 100 10 1 10 100 1000 10000 Calcium Sulfate Solubility Profile	Ca (HCO ₃) ₂ CaSO ₄ CaCl ₂ Mg (HCO ₃) ₂ MgSO ₄ MgCL ₂ NaHCO ₃ NaSO ₄	EQ. WT. X 81.04 68.07 55.50 73.17 60.19 47.62 84.00 71.03	*meg/L = 2.39 4.41 13.95 0.00 0.00 10.33 0.00 0.00	mg/L. 194 300 774 0 492 0 0

This water is mildly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts in solution.



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

January 15, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-288-259-007

Mrs. L. A. Stearns Kenneth Tank Services P.O. Box 100 Crossroads, New Mexico 88114

RE: Ground Water Remediation Extension Kenneth Tank Services Brine Production Facility BW-13 Lea County, New Mexico

Dear Mrs. Stearns:

The New Mexico Oil Conservation Division has received the request dated January 2, 1998 for an extension to submit a ground water investigation workplan. The workplan was required to determine the extent of ground water contamination at the Kenneth Tank Services brine production facility. Based on the information provided, an extension until April 5, 1998 is hereby approved for the submittal of the required ground water investigation workplan.

If Kenneth has any further questions or comments please contact me at (505)-827-7155.

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Sincerely

Mark Ashley Geologist

xc: OCD Hobbs Office

(See reverse **Certified Mai** Insurance Coverage Provided. not use for International Mail Ð G ost Office, State, & ZIP Code Showing stricted Delivery Fee pecial Delivery Fee eceipt for Service Street & Number Sertified Fee Postal ۶ PS Form 3800, 2001 lingA

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KENNETH TANK SERVICE

PHONE: 505-675-2356 505-675-2357

Crude and Water Transports CROSSROADS, NEW MEXICO 88114

January 2, 1998

Mark Ashley Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

THISERVATION DIVISION

RE: Kenneth Tank Service Brine Production Facility BW-13 Lea County, New Mexico

Dear Mr. Ashley:

This letter is in reponse to the letter received from the New Mexico Energy, Minerals, and Natural Resources Department dated October 30, 1997. In this letter the Oil Conservation Division (OCD) contends that the levels of chlorides and Total Dissolved Solids (TDS) have increased as a result of activities associated with the operation of our brine facility. Based on information gathered to date this conclusion is debatable.

In an effort to maintain the integrity of our surface equipment we continually inspect our facility and replace equipment when necessary. As a result we have had no major spills. Tests have been conducted as requested to insure the mechanical integrity of the casing in the brine well. All integrity tests, including the latest one, dated September 15, 1997, have shown the casing to be in good condition and not leaking.

Our original discharge plan was approved in 1985 and has been renewed as required. Since then, quarterly water analysis submitted to the OCD or the EID of chlorides and TDS levels have fluctuated above and below the standards established by the Water Quality Control Commission (WQCC).

The discharge plan prepared by Geoscience Consultants, Ltd., in Albuquerque, NM, dated August 6, 1984, contains a detailed site hydrology and geophysical description of Northern Lea County. This plan also states that variations in water quality in this area can be expected.

In view of the above reasons we would appreciate an extended time frame to come to a definite conclusion that a problem exists at this brine facility. We wish to continue monitoring the water quality by having quarterly water analysis done --we expect the same fluctuation in the samples as has been experienced in the past thirteen years that we have owned and operated this facility.



NEW MEXICO DERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

October 30, 1997

CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-991

Mrs. L. A. Stearns Kenneth Tank Services P.O. Box 100 Crossroads, New Mexico 88114

RE: Ground Water Remediation Kenneth Tank Services Brine Production Facility BW-13 Lea County, New Mexico

Dear Mrs. Stearns:

On September 15, 1997 the New Mexico Oil Conservation Division (OCD) sampled two water supply wells located within the Kenneth Tank Services (Kenneth) brine facility and a ranch well located southeast of the facility. Kenneth operates the two wells on the facility for brine production purposes. Results of the water well sampling are as follows:

Well	<u>Chlorides</u> (Limit: 250 mg/l)	Total Dissolved Solids (TDS) (Limit: 1000 mg/l)
South Well	730 mg/l	2000 mg/l
West Well	820 mg/l	2000 mg/l
Ranch Well	860 mg/l	2000 mg/l

All three wells exceed the Water Quality Control Commission (WQCC) standards for ground water of 10,000 mg/l TDS or less. Based on information gathered to date, it appears that the ground water at the site has been impacted by activities associated with the brine facility.

The OCD is requiring Kenneth to submit a ground water investigation workplan to determine the extent of ground water contamination at the brine facility. Kenneth will also include a remediation proposal. The plan will also include a time schedule for all investigation activities. Please submit the required plan to the OCD Santa Fe Division Office by January 5, 1998 with a copy to the OCD Hobbs District Office.

If Kenneth has any further questions or comments please contact me at (505)-827-7155.

Sincerely,	ΛΛΛ
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Mark	nown
Mark Ashley	

Mark Ashley Geologist

xc.	OCD.	Hobbs	Office
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ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CABH

I hereby acknowledge receipt of check No dated $\frac{8/1/95}{5}$,
or cash received on $\frac{9/12/95}{12/95}$ in the amount of \$ 746.00
from Kenneth Tank Service
for Crosspoods Brine Well BW-013
(Proliny News) (OP Ne.) (OP Ne.)
Submitted to ASD by: top in Churchen Date: 9/13/95
Received in ASD by: MALALIN, Date: 0113 95
Filing Fee X New Facility Renewal V
Modification
Organization Code <u>521.07</u> Applicable FY <u>96</u>
To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment
DISCHARGE PLAN RENEWAL BW-OID
CRUDE AND WATER TRANSPORTS 95-108/1122
CROSSROADS, NM 88114 August 1, 19 95
NMED-Water Quality Management \$ 740.00
TO THE New MexicoOil Conservation Division
KENNETHT 40 DOLLAR DOLLAR
KENNETH TANK SERVICE
Western Commerce Bank
Brine Prod. Facility Renewal 1999-2000
FOR_Filing Fee & Flat rees

MAILING ADDRESS BOX 100 CROSSROADS, N.M. 88114

KENNETH TANK SERVICE

PHONE: 505-675-2356 505-675-2357

Crude and Water Transports CROSSROADS, NEW MEXICO 88114

RECEIVED

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State of New Mexico Energy, Minerals and Natural Res. Dept. Oil Donservation Division 2040 S. Pacheco Santa Fe, NM 87505 August 1, 1995

RECEIVED

Re: Kenneth Tank Service Discharge Plan Renewal BW-013 SEP 1 2 1995

Environmental Bureau Oil Conservation Division

In reply to the granting of renewal of our discharge plan for the next five years Kenneth Tank Service plans to meet the requirements as follows:

- 1. A check for full payment of filing fees and flat fee in the total of \$740.00 is attached.
- 2. Brine transfer lines: 25 ft. poly line runs from well head to holding tanks--this line can and has been checked periodically by pressuring up with triplex pump against closed valve at tank --100 PSI on pressure gauge observed July 1995. This can easily be observed by OCD representative when other integrity checks are scheduled.
- 3. Sumps and catch pits are cleaned and visually inspected periodically.
- 4. Berms to catch accidental spillage around holding tanks are in place and meet capacity specifications.
- 5. The facility has no chemical or lubrication drums stored at the site.
- 6-9. KTS agrees to requirements listed by OCD attachment.
- 10. A mechanical integrity test will be conducted on the well as required before October 3, 1995. We will contact the OCD office in Hobbs, NM to witness the test.
- 11. Cavity Configuration testing will be discussed with the OCD.
- 12. Brine production will be recorded by date and reported to the OCD Santa Fe Office quarterly.
- 13. OCD office in Hobbs will be notified prior to performing remedial work or any other workover. --appropriate forms will be filed.

MAILING ADDRESS BOX 100 CROSSROADS, N.M. 88114

KENNETH TANK SERVICE

PHONE: 505-675-2356 505-675-2357

Crude and Water Transports CROSSROADS, NEW MEXICO 88114

August 1, 1995 Brine Discharge Plan Renewal BW-013 Acceptance of Requirements Page 2

- 14. The emergency catch pit lining will be replaced. Prior to October 3, 1995, a plan to meet OCD specifications will be submitted, and the work will be done in time required.
- 15. All brine loading valves will incorporate catch basins by October 3, 1995.
- 16. We certainly have no plans to close or discontinue use of this facility, but will notify OCD as specified for approval if for some unforeseen reason operations of this facility should cease.

Kenneth Tank Service appreciates the renewal of our plan and will work with the OCD staff as necessary.

Sincerely, Stearns

Check Attached

xc: OCD Office, Hobbs, NM

- -	DISCHARGE PLAN RENEWAL BW-013 KENNETH TANK SERVICE CRUDE AND WATER TRANSPORTS 675-2357 OR 675-2356 CROSSROADS, NM 88114 95-108/1122
	PAY NMED-Water Quality Management August 1, 19 95 TO THE ORDER OF New MexicoOil Conservation Division \$ 740.00 KENNETH**********************************
	TANK SERVICE d' de fund 2010 100 100 100 100 100 100 100 100 10

Mark Ashley

From:	Wayne Price
To:	Mark Ashley
Cc:	Bill Olson; Wayne Price
Subject:	KTS-Brine St. DP # BW-013
Date:	Monday, June 12, 1995 1:42PM
Priority:	High

Dear Mark,

R

Thanks for the telephone call, I have the following recommendations:

 Install catch basins and valve plugs on the brine loading valves. Presently there is no place for the brine to go when they disconnect their hoses. Even though there is a concrete pad, the pad does not contain any significate quanity of brine and it usually runs off. 10.3.95

 \star 2. If they are going to use the pit, then rebuild to guidelines.

 \checkmark 3. Require a MIT on the brine well within 90 days and set up on annual basis. 10^{-3} .

4. KTS should be required to address the issue of elevated TDS and Chlorides in the two on-site water wells and determine the source.

CARCE TUB

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES (Refer to OCD Guidelines for assistance in completing the application.)

	NEW RENEWAL for Discharge Plan BW-013
I.	FACILITY NAME: Kenneth Tank Service Brine Production Facility
II.	OPERATOR: C.K. Kinsolving dba Kenneth Tank Service ADDRESS: P.O. Box 100 Crossroads, NM 88114
	CONTACT PERSON: L.A. Stearns LOUANN PHONE, 05-675-2356
III.	LOCATION: SE1/4 SE1/4 Section 27 Township 98 Range 35E Submit large scale topographic map showing exact locationLea County, NM
IV.	Attach the name and address of the landowner of the facility site.
۷.	Attach a description of the types and quantities of fluids at the facility. Fresh Water1000 bbl. cap. tanks & Brine wtr1500 bbl. cap. tark
VI.	Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.
VII.	As per original discharge plan Attach a description of underground facilities (i.e. brine extraction well).
√III.	Attached: revised brine well drawing(noting error in original) Attach a contingency plan for reporting and clean-up of spills or releases. Same as in original discharge plan except now report to OCD
IX.	Attach geological/hydrological evidence demonstrating that brine extraction operations will no adversely impact fresh water.
X.	As per original discharge plan. Attach such other information as is necessary to demonstrate compliance with any other OCI rules, regulations and/or orders. Koyalties and Prod. reports current
XI.	CERTIFICATION & 1995: some pipelines replacedtested cleaned periodically
	I hereby certify under penalty of law that I have personnaly examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
	Name: L.A. Stearns Title: Off. Mgr.
	Signature: Date: 1/25/95

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

A Stland

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		CONSERVE ION DIVISION RECEIVED			
		'95 AP - 20 PM 8 52			
STATE OF NEW MEXICO OIL CONSERVATION DIVISION	MORANDUM OF MEETING	G OR CONVERSATION			
Telephone X Personal	Time 9:45 AM	Date 9-18-75			
Originating Pa	irty	Other Parties			
LOU NON STEAMOS - MT-	s BRANE st	WAYNE ARICE, JERRY SEXTEN			
Biv-	- 013	GARY WINK			
Subject KTS BRINES	t BW-013				
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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

HOBBS DISTRICT OFFICE

RECEVED

95 AP+ >7 POST OFFICE BOX 1980 8 52 HOBBS, NEW MEXICO B8241-1980 (505) 393-6161

April 20, 1995 Date:

Lou Ann Stearns Kenneth Tank Service/Brine Production Facility P.O. Box 100 Crossroads, NM 88114

Brine Production Facility DP# BW-013 Reference: SE/4 SE/4 Sec 27-Ts9s-R35E

Dear Ms. Stearns,

Please note after our visit in Crossroads the other day, Jerry Sexton requested I send you the most recent water sampling results and analysis reports. These were taken at the request of the New Mexico State Engineers office which made an inquiry to possible ground water contamination at a nearby well called (Barnes).

Therefore please find enclosed these reports and certain information submitted to the New Mexico State Engineer's office.

If you have any questions concerning the enclosed information please do not hesitate to call or write this office.

Sincerely Yours,

ne (. com

Wayne Price-Environmental Engineer

cc: Jerry Sexton-District I Supervisor Mark Ashley-Environmental Geologist; NMOCD Santa Fe office Bill Olson-Hydrogeologist; NMOCD Santa Fe office

Attachments-1

DRUG F

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERS	HIP: KING SOLVING	WELL #:
LAND STATUS	: STATE FEDERAL	FEE V
WELL LOCATI	ON: Unit Letter $\mu \omega/4$ Sect:	ion 35 Township 95 Range 35F
QUARTER/QUA	RTER - FOOTAGE LOCATION:	
WELL TYPE:	WALER (FRESH)	DEPTH feet
WELL USE:	DOMESTIC STOCK	PIPELINE
		WITHERS MR. KINSSILVING
SAMPLE NUMB	BER:	TAKEN BY: 2/AYNE PRICE - NAOCA
		DATE: 3-30-95
	Specific Conductance:	1700 MAHOS 11/2
	Total dissolved solids:	PPM
	Chlorides:	532 PPM
	Sulfates:	PPM
	Ortho-phosphates: Very Low	v Low Med Hi
	Sulfides: None	Low Med Hi
	OTHER:	
	PH ≈ 6-6.5	Λ / Λ
DATE ANALY		my Minthe
DATE ANALIA	2ED:	DI CONSERVATION DIVISION
		•
REMARKS :	CLEAR WATER TH	IS WATER WELL IS LOCATED
DIRFICTO	LY ACROSS HILLY FROM H	(TS BRINE ST BW-013,
	· · · · · · · · · · · · · · · · · · ·	
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OIL TR	EALING PLANE (R-8167)	
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	*: OO *K	offen
·····	HWV	······································
		CC : JERRY SEXTON - NMOC
1	1- Au-013	BILL OLSON - NARCH
EN	BRINE	MARK ASHLEY - NNOCH
/	St.	TOHNNY HERNANDEZ - N

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION HOBBS, NEW MEXICO ----

WATER ANALYSIS REPORT FORM

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WELL OWNERSH	IP: KING SOLVI	ing		WELL	#:	
LAND STATUS:	STATEF	EDERAL	FEE	V		
WELL LOCATIO	N: Unit Letter <u>A</u>	14/4 Sect	ion <u>35</u>	Township	95 Range	35 F
QUARTER/QUAR	RTER - FOOTAGE LOC	ATION:				· · · · · · · · · · · · · · · · · · ·
WELL TYPE: _	WATER (FRE	SH)		DEP	TH	feet
WELL USE:	DOMEStic .	STOCK	PipELip	IE		
-			Urlusss	MR. KINS S.	LVING MADED	
SAMPLE NUMBE	ER:		TAKEN BY	: WAYNE	PRICE -	NMOCD
			DATE:	3-30-9	75	
	Specific Conduct	ance:	170	О "ЦМН	5 mh	
	Total dissolved	solids:	· · · ·		PPM	
	Chlorides:	·	53	2	PPM	
	Sulfates:				PPM	
	Ortho-phosphates	: Very Low	7 L	ow Med	Hi Hi	
	Sulfides:	None	L	ow Med	1 Hi	
	OTHER:					
	<i>PH ≈ 6-6</i> .	5		1/	1	
DATE ANALYZ	ED:		BY:	/ MAR //		
			<u> </u>	CONSERVATION	N DIVISION	<u></u>
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REMARKS :	CLEAR WALE	R TH	1.5 WAt	EN WELL	s Locate	3
DIRECTL	Y ACRASS HWY	FROM F	TTS B	RINE ST	BW-013,	
THIS 2	FUL IS LOCHTED	NEXT 2	te the	KENNEtH	THUK	SFRUICE
OIL TRE	EALING PLANEL	<u>R-81(7)</u>				این
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	HWY	· · · · · · · · · · · · · · · · · · ·				
	,			C°C.	JERRY SE	XTON - NMOC
E	KT	F- Au-013			ØILL OLS MARK ASH	LEY - NNOCI
-p	BRi	ve t			175-51	E'
	57				JOHNNY H	ERMANDEZ - P

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

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

TO: Johnny Hernandez NM State Engineer From: Jerry Sexton

Subject: Groundwater contamination Sec 27 - R-35E -9S [Crossroads, New Mexico]

On 3/7/95 water samples were taken from fresh water well around the Barnes well and the results are as follows:

Water well at Kenneth's brine station [chlorides 610 PPM]

Wolfe's water well in crossroads [chlorides 71 PPM]

windmill 1/4 mile south of Barnes well [85 PPM chlorides]

In looking at previous water analysis Santa Fe has one for the well at the brine station taken in 1986 showing chlorides of 500PPM.

The water analysis show a slight contamination.

A water analysis from the Barnes well could not be obtained as the well has been capped.

I have attached a map showing where the water samples were taken from in respect to the Barnes well.

Any information on the Barnes well would be helpful to determine the extent of the problem.

I have turned the attached information over to Roger Anderson of the OCD Environmental Bureau, but if I can be of further help let me know.

cc: Bill LeMay Roger Anderson

DRUG FRE tt's a State

MAILING ADDRESS BOX 100 CROSSROADS, N.M. 88114 KENNETH TANK SERVICE

Crude and Water Transports CROSSROADS, NEW MEXICO 88114 PHONE: 505-675-2356 505-675-2357

April 24, 1995

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

Re: Kenneth Tank Service Brine Production Facility Discharge Flan: BW-013

Dear Mr. Mark Ashley:

Please find attached a revised drawing of the brine facility operated and owned by Kenneth Tank Service. We are submitting this modification for the department's approval. Tanks are now set, containment berm rebuilt, catch tub cleaned and checked for integrity, drain lines redone due to damage caused by the heavy equipment needed to move the tanks and do the necessary dirt work. As per our conversation we are aware that the plastic lining of the emergency catch pit needs to be replaced. This pit seldom has any fluid as it is only an emergency pit so we hope that we will be allowed to replace it within the period before our next renewal.

We appreciate working with you on this project. Please let us know if anything else needs to be taken care of to complete the renewal of our current Discharge Plan.

Sincerely,

C.K. Kinšolving, Owner

Lou Ann Stearns, Off. Mgr.



Revised Drawing 4/25/95-- Tanks 1,2,3 and 4 replacing previous tanks (all five storage tanks are 1000 barrel metal tanks)

OPE CONSERVENUN DIVISION RECEIVED

NMOCD Inter-Correspondence

'95 AP 11 PM 8 52

To: Bill Olson-Hydrogeologist Mark Ashley-Geologist

From: Wayne Price-Environmental Engineer District I

Date: April 6, 1995

Reference: Kenneth Tank Service. Brine Station BW-013

Subject: Ground Water Contamination

Comments:

Dear Bill,

Please find enclosed a water analysis report form for the fresh water located across the highway from the Brine Station. I sampled this well when Mark Ashley was down the other day. Bill, this is the water well system that you and I found that was located next to the two oil tanks. By the way these tanks are permitted as a treating plant under order R-8167. ??

Please note that the chlorides are elevated in this well also. So it does appear that there is elevated levels of chlorides above background levels.

Mr. Kinsolving was on site and indicated to me that the open well bore that you and I found inside of the shed next to the highway was an old water well.

Due to the way the Brine station has been operated in the past, I recommend that KTS be ask to investigate if the contamination is a result of past leaks and spills which occurred at the site. Also the fact that there is evidence of old pits on site.

I recommend it would be advisable if all those old open well bores be plugged to prevent any further contamination.

I have also included addition information to you that was sent to Johnny Hernandez from our office. Mr. Hernandez called and indicated that their office received a complaint about this ground water contamination.

cc: Jerry Sexton-District I Supervisor

Attachments-2

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION HOBBS, NEW MEXICO

L

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: King Solving WELL #:
LAND STATUS: STATE FEDERAL FEE
WELL LOCATION: Unit Letter $\mu/\mu/4$ Section 35 Township 95 Range 35F
QUARTER/QUARTER - FOOTAGE LOCATION:
WELL TYPE: WATER (FRESH) DEPTH feet
WELL USE: DOMESTIC STOCK PIPELINE
WITHERS MR. KINSSOLVING
SAMPLE NUMBER: TAKEN BY: 2/AYNE PRICE - NMOCD
DATE: 3-30-95
Specific Conductance: 1700 MAHOS mh
Total dissolved solids: PPM
Chlorides: 532 PPM
Sulfates: PPM
Ortho-phosphates: Very Low Low Med Hi
Sulfides: None Low Med Hi
OTHER:
PH & 6-6.5
DATE ANALYZED: BY: / /////////////////////////////////
- · · · · · · · · · · · · · · · · · · ·
REMARKS: CLEAR WATER THIS WATER WELL IS LOCATED
AIRFELLY ACROSS HWY FROM KITS PRINE ST BW-013
THIS 264 13 LOCATED NEXT to LAFE KENNELH THIK SERVICE
PIL TREATING PLANT (R-8167)
2/HATER NEW WEN WEN
BARWAS WELL AL DIFUL BORE
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HWY
CC; JERRY SEXTON - NAUCO BILL OLSON - NAUCO
KIG- MARK ASHLEY - NNOCA
The prime RTS-JILE RTS-JILE
Commercial Research
ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION HOBBS, NEW MEXICO - -

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: King Solving WELL #:
LAND STATUS: STATE FEDERAL FEE
WELL LOCATION: Unit Letter 1/4/4 Section 35 Township 95 Range 355
QUARTER/QUARTER - FOOTAGE LOCATION:
WELL TYPE: <u>WATER (FRESH)</u> DEPTH feet
WELL USE: DOMESTIC STOCK PIPELINE
WILLESS MR. KINGSSILVING
SAMPLE NUMBER: TAKEN BY: 2/AYNE PRICE - NMOCO
DATE: 3-30-95
Specific Conductance: 1700 MAHUS m/
Total dissolved solids: PPM
Chlorides: <u>532</u> PPM
Sulfates: PPM
Ortho-phosphates: Very Low Low Med Hi
Sulfides: None Low Med Hi
OTHER:
$\underline{\rho}\mu \approx 6-6.5$
DATE ANALYZED: BY:
941 CONSERVATION DIVISION
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REMARKS: <u>CLEAR WATER</u> THIS WATER WELL IS LOCATED
DIRECTLY ACROSS HWY FROM MTS BRINE ST BW-013,
THIS LOLL IS LOCATOD NEXT to THE KENNETH TAUK SERVICE
OIL TREATING PLANT (R-8167)
WATER WITH BORE
ALTER WELL OLD STELL AT
HWY
CC: JERRY SEXTON - NMOCH
KTS- AM-013 PILL OLSON - DARCH MARK ASHLEY - NNOCA
N BRINE KT5-JILE
SL. JOHNNY HERNANDEL-PA

TO: JERRY SEXTEN NMOCD

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HENNETH TANK WELL BRIVE DLA PIT 3 PARMIT BW-013	BARNES DIELL-CATPEN				
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· · · · · · · · · · · · · · · · · · ·	• WINDMILL 1/	45 of BRINE ST	ATION		
SAMPLES TAKEN	BY JACK GRIGG BY ZAYNE PR	IN -NMACD	к. ч.		
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Wolf E	TI ppm	1400	6.5 - 7	CLEAR	Non
(BRINE) MENNETH TANK	610 Mm *	2300 *	1.5-7	<i>II</i> :	
21MMMILL	85 pm	850	65-7	14 102	*1
* Exceeds LADEC LIA			<u>M</u>	uf si	

STATE OF NEW MEXICO ENERGY, INNERALS AND NATURAL BESOURCES OF CONSERVATION DIVISION. STATE OF NEW MEXICO RECEIVED is hereby given that pursuan New Mexico Whee Quality of Commission Regulatione, the ing discharge plan renewa County of Bernalillo SS ntrol Control Commission regulations, the following discharge plan renewal application has been submitted to the Director of the Oli Conservation Divi-sion, 2040 South Pacheco, Santa Fe, New Mexico 87605, Telephone (505) Bill Tafoya being duly sworn declares and says tha MAR is Oglaggicied Advertising manager of The Albuquerque Journal, and that this newspaper 27-7131: (BW-013) - Kenneth Tank: Ser-vices, Kenneth Kinsolving, P.O. Box 100, Grossroeds, New Mex-loo, 88114, has submitted a ra-real spoketion for the previous-ty approved discharge plan for their insili settraction brine well facility: Montod in SE/A, SE/A, Serviced Tagmand in SE/A, SE/A, is duly qualified to publish legal notices or advertisem Cit Ovirsen his inclusion of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, 127 Township 9 South, 26 East, Nikipia, Lea tri: New Matteo. Fresh Ministrico. Fresh _times, the first publication being of the $_$ \square \square \square \square \square \square \square for water at miscase into me calaco Formation in an approximate depth of 2300 feet and brine ta extracted with an average total dissolved solids concentration of <u>Aebruan</u>, 1995, and the subsequent consecutive publications on 1995 of about 320,000 mg/l. Groundwater most likely affected by a spill, les accidental discharge to the Ω_A 10 ak of Noted by a spill, leak or oldental discharge to the sur-oldental discharge to the sur-oldental discharge to the sur-discharge plan addresses w spills, leaks, and other oldental discharges to the sur-oldental discharges to the sur-blant addresses may obtain at units and from the OR Con-tion discharges and may submit Sworn and subscribed to before me, a notary Public in an and for the County of Bernalillo and State of New The 174 day of <u>Jab</u>. 1995 as The Mexico, this_ OFFICIAL SEAL Megan Millage NOTARY PUBLIC PRICE Division and may submit minimum to the Director of intervision Division at the STATE OF NEW MEXICO written comm the Oil Cons Statement to come at end of month. مَحَ My Commission Expires: ven above. The discharge may be viewed at the between \$300 a.m. Monday Tru Friday, Inc. Dri July proposed In of its modification, the Dis Off Crassivation Divis 681184 CLA-22-A (R-1/93) ACCOUNT NUMBER to: of the Of Creativation Division and all allow at least thirty (30) after the date of publication of ing which comments

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avalable. I à public rove the proposed bised of the information in the and information submitted the

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a lisk, the Director

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plan and mornason submass the hearing. GIVEN under the Seal of New Mexico Oil Conservation: commission at Santa Fay New Mexico, on this and day of Fastering 1995. STATE OF NEW MEXICO OIL CONSERVATION DIVISION SWIIIIam J. Lemay, Director Journal; February 17, 1995

NMOCD Inter-Correspondence

To: Jerry Sexton-District I Supervisor

From: Wayne Price-Environmental Engineer District I

Date: March 6, 1995

Reference: Groundwater contamination investigation near Crossroads NM - in part of sections (sw/4 26, se/4 27, nw/4 35, ne/4) - Ts9s - R35 e.

Subject: Request for information from NM State Engineers office-John Hernadez

Comments: The State Engineers office has had an inquiry of possible ground water contamination in the area listed above. John Hernadez of the Roswell office has request I check the NMOCD records.

Our Records reflect that there are two wells that are plugged and abandoned and are located in nw/4 of section 26 and sw/4 of section 27 respectively.

There is still one active well which is a brine well located in se/4 se/4 of section 27. This brine well is the Kenneth Tank Service permit # BW-013.

Mr. Hernadez has requested some information on the water wells located on site.

Recommendations:

I recommend that we sample the fresh water well or wells on site for Chlorides, TDS, PH, visual and olfactory. I have the equipment to perform the above.

Please advise.

Affidavit of Publica En

)) ss.

)

STATE OF NEW MEXICO

COUNTY OF LEA

Joyce Clemens being first duly sworn on oath Adv. Director deposes and says that he is 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

anaxnanaanaa
CKKKYYXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof,
samexxxxxxxxxxxxxxxxxxxx for one (1) day

consecutive weeks, beginning with the issue of

February 10

and ending with the issue of

		1

And that the cost of publishing said notice is the
sum of \$
which sum has been (Paid) (Assessed) as Court Costs
Pupel Clemens
Subscribed and sworn to before me this
day of
Notary Public, Lea County, New Mexico
My Commission Expires 19.

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 Pacheo, Santa Fe, New Mexico 87505, Telephone (505)827-7131;

(BW-013) - Kenneth Tank Services, Kenneth Kinsolving, P.O. Box 100, Crossroads, New Mexico, 88114, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility located in SE/4, SE/4, Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 feet and brine is extracted with an average total dissolved solids concentration of about 320,000 mg/l. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 140 feet with an estimated total dissolved solids concentration of 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge 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 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 the State of New Mexico Oil Conservation Commission at Santa Fe, New Mexico on this 8th day of February, 1995.

STATE OF NEW MEXICO **OIL CONSERVATION DIVISION** WILLIAM J. LEMAY 100 Director SEAL Published in the Lovington Daily Leader February 10, 1995.

State of New Mexico Energy, Minerals and Natural Resources Department DIL CONSERVE ION DIVISION OIL CONSERVATION DIVISION RECE JED P.O. Box 2088 Santa Fe, NM 87501 AM 8 52 *7 "95 FE-DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES (Refer to OCD Guidelines for assistance in completing the application.) L NEW I.

EXRENEWAL for Discharge Plan BW-013 FACILITY NAME: Kenneth Tank Service Brine Production Facility C.K. Kinsolving dba Kenneth Tank Service II. **OPERATOR:** ADDRESS: P.O. Box 100 Crossroads, NM 88114 CONTACT PERSON: _L.A. Stearns PHONE 05-675-2356 III. LOCATION: SE1/4 SE1/4 Section 27 Township 9S Range 35E Submit large scale topographic map showing exact locationLea County, NM As per original discharge plan 1985. Attach the name and address of the landowner of the facility site. IV. C.K. Kinsolving, Box 100, Crossroads, NM 88114 V. Attach a description of the types and quantities of fluids at the facility. Fresh Water--1000 bbl. cap. tanks & Brine wtr--1500 bbl. cap.tanks VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities. As per original discharge plan Attach a description of underground facilities (i.e. brine extraction well). VII. Attached: revised brine well drawing(noting error in original) Attach a contingency plan for reporting and clean-up of spills or releases. VIII. Same as in original discharge plan except now report to OCD IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water. As per original discharge plan. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders. & Royalties and Prod. reports current--X. 1993: some pipelines replaced--tested XI. CERTIFICATION &1994 for integrity --sumps checked & cleaned periodically I hereby certify under penalty of law that I have personnaly examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

5-91

RECEIVED

FEB 07 1995

Environmental Bureau

Oil Conservation Division

Name: L.A. Stearns	Title:	Off. Mgr.
Signature:		Date: 1/25/95

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



A 🗅

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



DRUG FREE

January 10, 1995

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-788

Mr. Kenneth Kinsolving Kenneth Tank Service P.O. Box 100 Crossroads, NM 88114

RE: Discharge Plan Renewal BW-013 Kenneth Tank Service Water Station Lea County, New Mexico

Dear Mr. Kinsolving:

On June 15, 1994, Kenneth Tank Service received, via certified mail, notice from the New Mexico Oil Conservation Division (OCD) that the discharge plan BW-013 for the Kenneth Tank Service Water Station, located in Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico would expire on July 15, 1995. As of this date (January 10, 1995), the OCD has not received a renewal application from Kenneth Tank Service.

If you wish to renew operations at this facility, a discharge plan application shall be submitted and approved by the OCD prior to July 15, 1995. The application shall follow the Water Quality Control Commission Regulations and the OCD's Guidelines for the Preparation of Ground Water Discharge Plans at Brine Extraction Facilities delivered to you with the OCD's June 15, 1994 renewal notice letter.

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

Sincerely,

Rogér C. Anderson Environmental Bureau Chief

RCA/mwa xc: OCD Hobbs Office

VILLAGRA BUILDING - 408 Gallateo 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 Facheco Office of the Secretary 827-5950 Administrative Services 827-5925 Energy Conservation & Management 827-5900 Mining and Minerals 827-5970 Oil Conservation 827-7131

Z 765 962 788



Sent to

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

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Restricted Delivery Fee	
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Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	





STATE OF NEW MEXICO NMOCD District I

INTER-OFFICE MEMO

To file: Kenneth Tank Services-Brine St DP# BW-013

Date: August 23, 1994 Time: 10:30 am

Telephone call:____ Meeting:___ Other:_X___ on site visit

Person called or attending: W price G Wink J Griffin

REFERENCE: Kenneth Tank Services-Brine St DP# BW-013 se/4 se/4 Sec 27, ts 9s, r 35 e

Subject: Brine Station Inspection.

Comments:

Appears to be very little activity at this brine station. Slight visual salt stain around loading areas. Loading areas have no secondary containment.

No sign.

Brine well valves all closed at this time.

Wayne Price

NMOCD Environmental Engineer District I

CC: CHRIS EUSLICE

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

(505) 827-5800

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

June 15, 1994

CERTIFIED MAIL RETURN RECEIPT NO. P 176 012 227

Mr. Kenneth Kinsolving Kenneth Tank Service P.O. Box 100 Crossroads, NM 88114

RE: Discharge Plan BW-013 Renewal Kenneth Tank Service Water Station Lea County, New Mexico

Dear Mr. Kinsolving,

On July 15, 1985, the groundwater discharge plan, BW-013 for the Kenneth Tank Service Water Station located in Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico, was approved by the Director of the 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 November 4, 1991. The current approval will expire on July 15, 1995.

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.

Note that the completed and signed application form must be submitted with your discharge plant renewal request.

If you no longer have any actual or potential discharges please identify this office. If you have any questions, please do not Mr. Kenneth Kinsolving June 15, 1994 Page 2

hesitate to contact me at (505)827-5812.

Sincerely,

7

Roger C. Anderson Environmental Bureau Chief

RCA/rlm

xc: OCD Hobbs Office



UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE

OIL CONSERV. JN DIVISION REC: LED

'91 OCT 15 AM 10 01

Ecological Services Suite D, 3530 Pan American Highway, NE Albuquerque, New Mexico 87107

October 9, 1991

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 Notice dated September 23, 1991, regarding the effects of granting a State of New Mexico groundwater discharge permit on fish, shellfish, and wildlife resources in New Mexico.

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

(BW-13) - Kenneth Tank Service, Crossroads, New Mexico

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

Sincerely,

Jennifer Fowler-Propst

'ield 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

Affidavit of Publica

) ss.

)

STATE OF NEW MEXICO

COUNTY OF LEA

Joyce Clemens being first duly sworn on oath Adv. Director deposes and says that he is 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 Publi	cation
	1
and numbered	in the
and numbered	I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	Court of Lea
County, New Mexico, was publ	ished in a regular and
entire issue of THE LOVINGTO	N 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	th the issue of
October 1	10
	1
and ending with the issue of .	,
October 1	₁₀ 91
	1
And that the cost of publi	shing said notice is the
29.76	1
sum of \$	

sed) as Court Costs which sum has been (Paid) nens 15th and sworn, to before me this Subscribed October ..., 19.. dav of Ml Notary Public, Lea County, New Mexico Sept. 28

My Commission, Expire

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

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

(BW-13) - Kenneth Tank Service, Kenneth Kinsolving, P.O. Box 100, Crossroads, New Mexico, 88114, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Kenneth Tank Service Water Station is located in the SE/4, SE/4, Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 feet and brine is extracted with an average total dissolved solids concentrations of about 320,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 140 feet with an estimated total dissolved solids Concentration of 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 23rd day of September, 1991.

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

SEAL

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Published in the Lovington Daily Leader October 1, 1991.

STATE OF NEW MEXICO County of Bernalillo NOTICE OF PUBLICATION STATE OF NEW MEXICO. SS ENERGY, MINERALS AND NATURAL RESOURCES DEPART-OIL CONSERVATION DIVISION Thomas J. Smithson being duly sworn declares and says that he is National Advertising **ON DIVISION** manager of the Albuquerque Journal, and that this newspaper is duly qualified to, 2ED Notice is hereby given that pur publish legal notices or advertisements within the meaning of Section 3 Chapter 167, ssion R ions, thi Session Laws of 1937, and that payment therefore has been made or assessed as court discharge " AM 9 06 d to the costs; that the notice, a copy of which is hereto attached, was published in said paper ctor of the Oil Conservation Divi te Land Office Building, Santa Fe, New Mexico 8, Telephone (505) 827 2068 for 1 6 1 Oct. of., 1991, and the subsequent consecutive SF/ publications on.... 0, 1991. oman a FFICIAL SEAL Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New VADETTE OR PUBLIC-NEW MEXICO TH SECRETARY OF STAT. PRICE. res 12-18-Statement to come at end of month. CLA-22-A (R-12/91) ACCOUNTNUMBER C81184 : 16 and: 5:00 tion of this n lice due ung will bi cant public interests. the ctor will approve or d the proposed plan based on i tion available:- Wa public he ian besed on in vina k held, the director will approv 0 disapprove the propoe on information in the n aub GIVEN -undet the Stal of N Maxico Oil Con at Santa Fe. N nd day of September, 1991. Rest: STATE OF NEW MEXICO OIL CONSERVATION DIVISION W recesses/William J. Lomey

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NOTICE OF PUBLICATION

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

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(BW-13) - Kenneth Tank Service, Kenneth Kinsolving, P.O. Box 100, Crossroads, New Mexico, 88114, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Kenneth Tank Service Water Station is located in the SE/4, SE/4, Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 feet and brine is extracted with an average total dissolved solids concentrations of about 320,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 140 feet with an estimated total dissolved solids concentration of 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 23rd day of September, 1991.

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

SEAL

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

September 23, 1991

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

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P-106-675-370</u>

Mr. Kenneth Kinsolving Kenneth Tank Service P. O. Box 100 Crossroads, New Mexico 88114

RE: Suspension of Discharge Plan BW-13 Kenneth Tank Service Water Station

Dear Mr. Kinsolving:

The discharge plan renewal (BW-13) for the Kenneth Tank Service Water Station located in Section 27, Township 9 South, Range 35 East, NMPM, Lea County New Mexico, was approved by the Director of the Oil Conservation Division (OCD) on September 6, 1991. The renewal application was submitted on August 9, 1991, upon which public notice should have been issued (WQCC Rule 5-102.B.4.) within 30 days of receipt. As an oversight of the OCD (myself, K. Brown), public notice was not issued prior to approval of discharge plan renewal BW-13.

Although the OCD is responsible for issuing public notice and failed to do so, under WQCC Rule 3-108 this step cannot be omitted. Therefore, the discharge plan renewal approval for BW-13 is hereby suspended until public notice has been issued and a period of thirty (30) days is allowed for comments. If no comments are received during the required thirty day comment period that necessitate holding a hearing, then the Director will approve the discharge plan renewal.

Kenneth Tank Service is allowed to continue operations (in accordance with all WQCC Rules and Regulations) while awaiting public notice and the comment period. I am sorry for any inconvenience that this may have caused you. If you have any questions please do not hesitate to contact me at 505-827-5824.

Sincerely,

Kathy M. Brown Environmental Geologist

xc: OCD Hobbs Office

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 23rd day of September, 1991.

STATE OF NEW MEXICO **OIL CONSERVATION DIVISION**

WILLIAM J. LEMAY, Director

SEAL

MAILING ADDRESS BOX 100 CROSSROADS, N.M. 88114

KENNETH TANK SERVICE

PHONE: 505-675-2356 505-675-2357

Crude and Water Transports CROSSROADS, NEW MEXICO 88114

August 9, 1991

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

- RE: Discharge Plan BW-13 (formerly DP-355) Kenneth Tank Service Water Station Lea County, New Mexico
- Attention: David G. Boyer, Environmental Bureau Chief Kathy Brown, Assisting

Please find attached a completed form for renewal of our discharge plan for brine extraction facility. Basically, our operation is as described in the original plan submitted August 6, 1984. We wish to add the following committments and changes in scheduling of reports:

- 1. Any major leaks and spills will be reported to the Hobbs Office of the OCD within 48 hours of the event.
- 2. A quarterly report of brine production will be submitted the OCD.
- 3. KTS will submit a quarterly water analysis from the fresh water well or wells producing at the water station.
- 4. As required by the OCD, KTS will conduct an open hole pressure test to 500 PSI for 4 hours on an annual basis. This test will be scheduled within the next 2-3 welks with Hobbs OCD Representatives present. Results and chart will be sent to Santa Fe. A pressure test isolating the casing from the formation will be performed within the next 1¹/₂ years. Tests ensuring the mechanical integrity of the well will be conducted at least once every 5 years or during well workovers.
- 5. Pressure tests of subsurface brine pipelines to ensure their integrity were done and reports submitted in July 1991. These underground pipelines will be tested and reports submitted to the OCD every 5 years.
- 6. Within the next lyears, at the same time as the mechanical integrity of the casing is checked, specific information on depths of all strings of pipe, tops of cement, logs, etc will be submitted to the OCD.
- 7. KTS submitted a statement of cleaning and visual inspection of sumps on July 1991. The OCD will receive an annual statement of such inspections of the spill collection and drain system of the facility.

We appreciate the help your office has given us with this renewal and will certainly be willing to try to understand and comply with all regulations.

Sincerel C.K. Kinsolving, Owner

CKK/las

<i>نع</i>	5/91
U CONSERY	State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION (ED P.O. Box 2088
REC.	am 9 03 Santa Fe, NM 87501
· 91 AUG 22	DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES (Refer to OCD Guidelines for assistance in completing the application.)
	□ NEW XRENEWAL
I.	FACILITY NAME: Kenneth Tank Service/ Brine Production Facility
II.	OPERATOR: C.K. Kinsolving dba Kenneth Tank Service
	ADDRESS: P.O. Box 100 Crossroads, NM 88114
	CONTACT PERSON: Lou Ann Stearns PHONE505-675-2356
III.	LOCATION: <u>SE1</u> /4 <u>SE1</u> /4 Section <u>27</u> Township <u>95</u> Range <u>35E</u> Submit large scale topographic map showing exact location. Lea Co., NM
IV.	Attach the name and address of the landowner of the facility site. C.K. Kinsolving, P.O. Box 100, Crossroads, NM 88114
V.	Attach a description of the types and quantities of fluids at the facility. Fresh Water2,000 bbls. capacity Brine Water2,000 bbls. capacity
VI.	Attach a description of all fluid transfer and storage and fluid and solid disposal facilities. As per original discharge plant on file at OCD, dated Aug. 6, 1984.
VII.	Attach a description of underground facilities (i.e. brine extraction well). As per original discharge plan
VIII.	Attach a contingency plan for reporting and clean-up of spills or releases. As per original discharge plan
IX.	Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.
Χ.	Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
XI.	CERTIFICATION
· 	I hereby certify under penalty of law that I have personnaly examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.
!	Name:C.K. Kinsolving Title: Owner
	Signature: C.K. Knisslang Date: 8/9/91

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

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STATE OF				
NEW MEXICO	DANDUM OF MEETIN			
CONSERVATION DIVISION	RANDUM OF MELTIN			
	Time		Date	
Y Telephone Personal	10:30		8-19-91	
Originating Party	<u>Y</u>		Other Parties	
Kathe Brown		Ms. K	insolving	
		(Ker	meth's daughter)	
Joiecz Status of Dischard	ge Plan Ren	enal	, , ,	
Requested 6-11-91; Rei	cieved 6-14-0	$\hat{1}$; D	re 8-14-91	
<i>0</i> '				
Inquired on statu	r of renewa	I-due	8-14-91. Had been	<u>~</u>
Vacation and would have it	in ASAP. A.	s for r	unning logs, had the	<u>ight</u>
the required information	was mour	d some	where. Told them if	
they could find the necess	anjinto. wo	uld not	- need to run Hogs.	
Told them needed to run	a pressure	test	before renewal of DP	
and had to commit to a	a dosed-hole	, test	within 12 years.	
Also, since their spillcoll	ection syste	mwas	designed to drain'	
to the sunker steel tank they need annual cleanout & inspection				
of it.				
Conclusions or Agreements				
	<u> </u>			
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stribution		aned o		
		Kath	J From	
			/	



N DIVISION

KENNETH TANK SERVICE

Crude and Water Transports CROSSROADS, NEW MEXICO 88114 PHONE: 505-675-2356 505-675-2357

·91 JUL 25 NM 9 04

CROSSROADSEN.M. JED

MAILING ADDRESS

BOX 100

QUARTERLY REPORT IN COMPLIANCE OF:

Discharge Plan DP-355 KENNETH TANK SERVICE BRINE PRODUCTION FACILITY Crossroads, NM

Average working pressure of brine well 290 P.S.I.

Average brine water weight 10-10.2 lbs.

Water analysis reports attached. (already mailed)

Report submitted by:

Signature_ 7/23/91 Date

NOTICE OF PUBLICATION

AM 8 52 USFWS - NMESSO ·95 FEH 27 **STATE OF NEW MEXICO** ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT **OIL CONSERVATION DIVISION**

OIL CONSERVA UN DIVISI RECE.VED

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-013) - Kenneth Tank Services, Kenneth Kinsolving, P.O. Box 100, Crossroads, New Mexico, 88114, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility located in SE/4, SE/4, Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2300 feet and brine is extracted with an average total dissolved solids concentration of about 320,000 mg/l. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 140 feet with an estimated total dissolved solids concentration of 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 8th day of February, 1995.

NO EFFECT FINDING	
The described action will have no effect on listed species, wetlands, or other important wildlife resources.	
Date24 February 1995	
S.E.A.L Consultation # 2-22-95-I-195	
Approved by Augustan	
U.S. FISH and WILDLIFE SERVICE NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE ALBUQUERQUE, NEW MEXICO	

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

RECEIVED

FFB 1 3 1995

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State of New Mexico ENERGY, MINERALS and NATURAL RESOURCES EPARTMENT

Santa Fe, New Mexico 87505



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Nue Husica DRUG FREE His a State of Hisad!

February 9, 1995

ALBUQUERQUE JOURNAL P. O. Drawer J-T Albuquerque, New Mexico 87103

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.)
- 2. 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 <u>February 17</u>, 1995.

1

Sincerely,

Martinez Administrative Secretary

Attachment

VILLAGRA BUILDING - 408 Galistee Forestry and Resources Conservation Division P.O. Box 1948 87504-1948 827-5830 Park and Recreation Division P.O. Box 1147 87504-1147 827-7455

	Z 765 963 Receipt for Certified M No Insurance Co Do not use for I (See Reverse)	3 306 ail overage Provided nternational Mail	X
	Sent to Dundl		
	Street and No.		
	P.O., State and ZIP Code		1
	Postage	\$	
	Certified Fee		
	Special Delivery Fee		
	Restricted Delivery Fee		
199	Return Receipt Showing to Whom & Date Delivered		
Aarch	Return Receipt Showing to Whom, Date, and Addressee's Address		Ener
0, 1	TOTAL Postage & Fees	\$	
80	Postmark or Date		

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

State of New Mexico INERALS and NATURAL RESOURCE ENERGY EPARTMENT Santa Fe, New Mexico 87505



7

DRUG FREI

February 9, 1995

LOVINGTON DAILY LEADER P. O. Box 1717 Lovington, New Mexico 88260 **RE:** NOTICE OF PUBLICATION

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Please publish the notice no	late	er than Februar	y 17	, 1995.
Sincerely,		Z 765 96	285 E	
Sally E. Martinez Administrative Secretary Attachment	۳۵۹ ۲	Receipt for Certified M No Insurance Co Do not use for I (See Reverse) Sent LOVINGION Daily Street above Box 1717 LOVINGION NM P.O., State and ZIP Code	l ail overage Provided nternational Mail	`
		Postage Certified Fee	\$	
VILLAGRA BUILDING - 408 Galisteo		Special Delivery Fee		2040 South Pachaco
Forestry and Resources Conservation Division P.O. Box 1948 87504-1948		Restricted Delivery Fee		Office of the Secretary 827-5950
827-5830 Park and Recreation Division	199	Return Receipt Showing to Whom & Date Delivered		Administrative Services 827-5925
P.O. Box 1147 87504-1147 827-7465	farch	Return Receipt Showing to Whom, Date, and Addressee's Address		Energy Conservation & Management 827-5900
	° °	TOTAL Postage & Fees	\$	Mining and Minerals 627-5970
	80	Postmark or Date		Oil Conservation 827-7131

NOTICE OF PUBLICATION

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 8th day of February, 1995.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

SEAL



500psi 350

Kenneth Tank Service

1) State Land Pay Royalties by using brine tickets; believe accurate is were audited by State Land-OK No fresh water meter Don't want to put meters in because expensive and only making brine say 1x a month.

- 2) Fresh water analysis Hod Baker do last quarter and results were screny. Hod them reamony reit. Will submit the new analysis & possibly get a new lab.
- 3) I of the wells isn't being used because the pump is out. Will submit diagram with in to
- 4) Will run integrity test & commit to casing isolation test. Will commit to logs to be run when pull tubing to run pressure test. Need base of casing, top of cement and top of salt.
- 5) Will commit to annual inspection of sump A submit diagram with sunker steel tank

7/22/91 Freshwater analysis shows hi CI- & TDS. Need to verify results with OCD samples Will get Hobbs office to sample Need to verify emergency pend not being used & to have them close it probably

	DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES (Refer to OCD Guidelines for assistance in completing the application.)
I.	FACILITY NAME:
II.	OPERATOR:
	ADDRESS:
	CONTACT PERSON: PHONE:
III.	LOCATION:/4/4 Section Township Range 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 sources 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.
VIII.	Attach a contingency plan for reporting and clean-up of spills or releases.
IX.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes 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 that the information submitted with this application is true and
	correct to the best of my knowledge and belief.
	Name: Title:
	Signature: Date:

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

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

June 11, 1991



BRUCE KING GOVERNOR

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

CERTIFIED MAIL RETURN RECEIPT NO. P-327-278-189

Mr. Kenneth Kinsolving Kenneth Tank Service P. O. Box 100 Crossroads, New Mexico 88114

RE: Discharge Plan BW-13 (formerly DP-355) Kenneth Tank Service Water Station Lea County, New Mexico

Dear Mr. Kinsolving:

On July 15, 1985, the ground water discharge plan, BW-13 for the Kenneth Tank Service Water Station located in Section 27, Township 9 South, Range 35 East, NMPM, Lea County, New Mexico, was approved by the Director of the Environmental Improvement Division (EID). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval expired on July 15, 1990. Authority to administer the brine program was transferred from the EID, back to the Oil Conservation Division (OCD) in 1989 with staffing approved in 1990. Please note the new discharge plan number (BW-13), formerly DP-355, which will be the permanent designation used in all future correspondence.

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

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

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

1. Transfer of Commitment

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

2. <u>Volumes of Injection Fluids and Brine</u>

The OCD requires (WQCC Rule 5-207) a quarterly report listing, by month, of the volume of fluids injected and produced for comparison to detect underground losses. The OCD has no volume reports on file for the Kenneth Tank Service (KTS) Water Station. Submit a proposal and schedule for reporting injection fluid and brine production volumes. Also, submit the date of first brine production and the total volume of brine produced to date. This information is necessary to evaluate subsidence potential at the KTS Water Station.

3. Fresh Water Analysis

KTS has committed to quarterly sampling and analysis of the two fresh water source wells at their water station. The last report that the OCD has on file is dated October 1990 and contains data only for the No. 1 Well. Submit to the OCD the water analyses for both fresh water source wells for the first quarter of 1991. Also, identify on a facility site diagram the No. 1 and No. 2 fresh water source wells. If only one well is being operated, explain why and indicate which well is in operation.

4. <u>Mechanical Integrity Testing</u>

Pursuant to revised OCD guidelines for discharge plans at brine facilities, all wells must be pressure tested (open-hole) to 500 psi for 4 hours on an annual basis. A pressure test isolating the casing from the formation using either a bridge plug or a packer must be conducted at least once every 5 years or during well workovers. The results from a current pressure test will be required prior to the approval of any brine facility discharge plan application or renewal. If the immediate test is performed using the open-hole method then a pressure test isolating the casing from the formation is required within the next 1 1/2 years. An OCD representative must be on site to witness all pressure tests. Submit a proposal for testing and ensuring the mechanical integrity of the well.

5. Brine Pipelines

In your original discharge plan dated August 6, 1984, KTS committed to semi-annual pressure testing of subsurface brine pipelines to ensure their integrity. The OCD does not have any records on file documenting these tests. Submit the results of all past pipeline integrity tests. Include the age and material of all buried brine pipelines. If you would like to modify your schedule for testing underground brine pipelines, propose an alternative plan.

6. <u>Well Completion and Formation Data</u>

The only report on file that the OCD has detailing the original 1966 well completion is a Form C-103 filed with the OCD on February 28, 1983. At best, this report consists of personal recollection by a now deceased Mr. Masell. To evaluate the risk for both ground water contamination and subsidence/collapse potential, it is necessary to have the accurate depths of all strings of pipe, tops of cement, and formation boundaries. KTS committed to performing a cement bond long, compensated neutron log, and formation density log (or the equivalent combination) prior to renewal of the discharge plan. If you have already ran these logs and determined the necessary information, submit the results to the OCD. If you have not performed the tests that you committed to you are required to run the logs and submit the results before your discharge plan renewal is approved.

7. <u>Spill Collection System</u>

The OCD's inspection of February 7, 1991 revealed a sunken steel stock tank near your emergency pond. This tank is not identified on your facility site diagram included in your original discharge plan. Describe the use and exact location of this tank. Is your drain system designed so that spilled fluids collect in this tank or in your two drain sumps? The OCD requires all new underground tanks with standing fluids have positive leak detection. All present underground tanks (i.e. sumps) that do not have leak detection are required to be cleaned out and visually inspected on an annual basis. Submit to the OCD a schedule for annual inspection of your current underground tank.

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

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

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Sincerely,

David G. Boyer, Hydrogeologist Environmental Bureau Chief

DGB/KMB/sl

Enclosures

cc: OCD Hobbs Office