BW - <u>5</u>

GENERAL CORRESPONDENCE

YEAR(S):

199/->1985

Equipment & Supplies Fresh Water Brine Supply Wells Salt Water Disposal

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks
RECEIVED Vacuum Trucks
RECEIVED Kill Truck
Frac Tanks

'91 DE: 23 AM 9 38

December 19, 1991

State of New Mexico Oil Conservation Division P.O. Box 2088 State Land Office Bldg. Santa Fe, NM 87504

RE: Discharge Plan BW-5 (formerly DP-322)

Loco Hills Brine Station

ATT: Kathy Brown

OGR'10 191149 PROP 28879

Attached please find information for requests for additional information on the brine renewal plan.

As I had previously stated Jim's Water Service has agreed to purchase the brine station. The original Agreement of Sale has been sent to Colorado for final signature.

If everything goes along as planned, Jim's Water Service should have possession of the brine station beginning the 1st of the new year (1992).

The 4th quarter report of 1991 will be provided to the OCD by B & E, Inc.

At the time of transfer of possession from B & E, Inc. to Jim's Water Service all committments by B & E, Inc. should transfer to Jim's Water Service. A complete copy of all files will be given to Jim's upon closing of the transaction. I personally will make myself available to help with any reports and etc.

Jim's Water Service was made aware of the future construction around the brine loading area and leak detection.

The contacts you will have with Jim's Water Service are:

Jim's Water Service P.O. Box 848 Artesia, NM 88210 Jim's Water Service of Co., Inc. 12630 WCR-4 Brighton, Colorado 80601

ATT: Mid Ray Clark

PH: 748-3152

ATT: Larry Wright

Equipment & Supplies Fresh Water Brine Supply Wells Salt Water Disposal

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks Winch Truck Kill Truck Frac Tanks

December 19, 1991

Page 2

We are hoping that the transition of possession will go as smoothly as possible. All parties have been very cooperative.

I apologize for just now getting the renewal plan finished and mailed. I had a personal medical emergency in New York and was gone for sometime.

If you have any further questions, please call me at 800-658-2739 and I will try to help finish this up.

Again, I certainly appreciate your helpfulness and consideration. Thank you again.

Sincerely,

Valerie Lemon-Pierce Asst. General Manager

Attachments

xc: OCD-Artesia District Office

file

1. Mechanical Integrity Testing

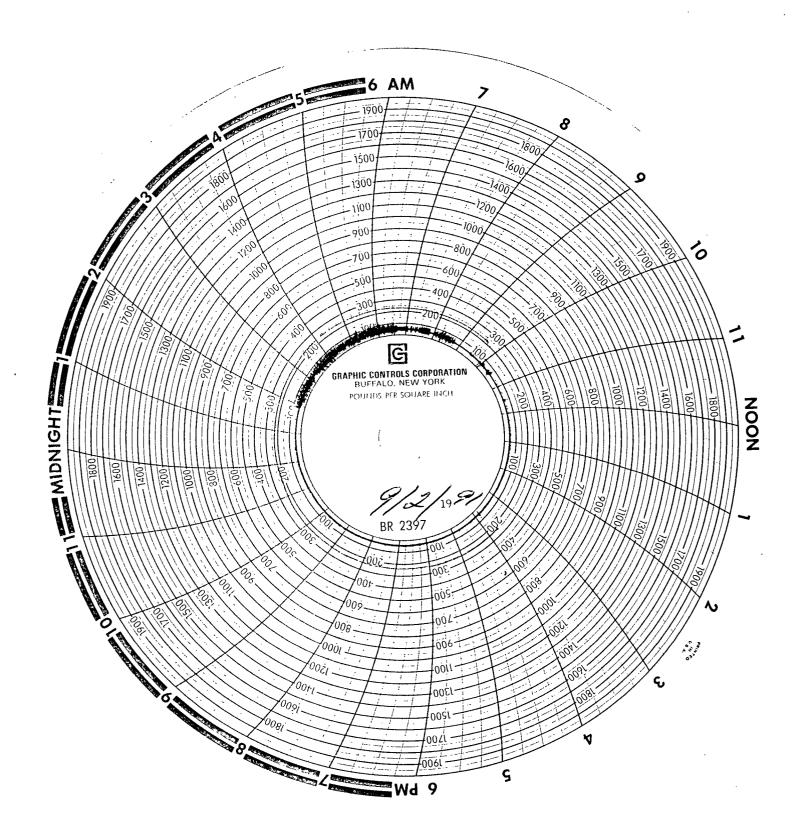
Pursuant to revised OCD guidelines for discharge plans at brine facilities, all wells must be pressure tested (openhole) to 500 psi for 4 hours on an annual basis. A pressure test isolating the casing from the formation using either a bridge plug or a packer must be conducted at least once every 5 years or during well workovers. The last pressure test on file for the State 24 No. 1 Well at your Loco Hills Brine Facility was an open-hole test performed on March 2, 1988. The results from a current pressure test will be required prior to the approval of any brine facility discharge plan application or renewal. If the immediate test is performed using the open-hole method, than a pressure test isolating the casing from the formation is required within the next 1 1/2 Note that an OCD representative must be on site to witness all pressure tests and we request 10 days before the test to allow us to make arrangements. Submit a proposal for

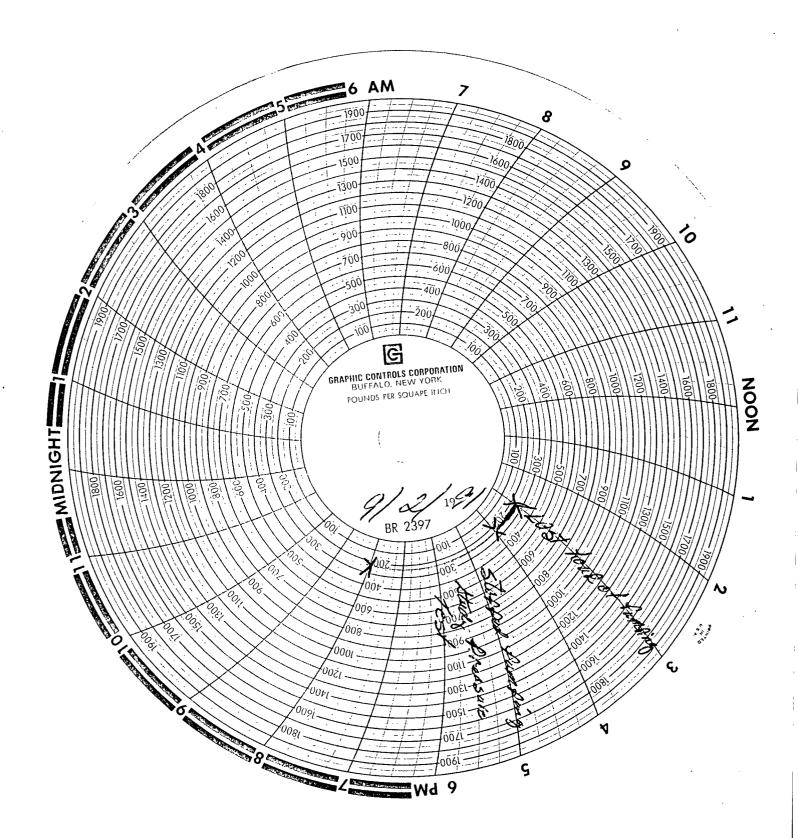
testing and ensuring the mechanical integrity of the well. Also, submit information on any buried brine pipelines including age and material of the lines.

Attached find the pressure test that was performed (previously sent)

The buried brine pipelines are 3" PVC pipe and are the original pipes from construction of the brine pond.

The casing is 7 5/8" from the well itself.





Loco Hills Brine Station.

Started test on Sept. 1, 1991 at 9:30am Started injection with fresh water pumping at 21/2 BBIS P/m at 100 PSi. Continues rate & tuling pressure until 8 /4 on same date, - at which time kate was increased to 31/2-4 BBIS PM at 100 PSi injection - ley whice time doonhale pressure had increased to 80 PSI. Fumping hate & injection pressure Continued thebughout night. By 10:30 m downhole pressure had increased to 150 PSi-By 2:00 PM Sept. 2, 250 PSi. Pressure Continued to hold-with same rate Einsection pressure at 350,051 Continued pumping until 3:00 /m on Sept 2nd Stopped pumping Studied Chart 4hr_ pressure held at 250 Bi-lugged down.

Total water pumped downhale -1954 BBIS

2. 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. This includes the quarterly report listing of volume of fluids injected and produced, the quarterly report of inspection of your leak detection system, and the annual analyses of injected and produced waters. 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).

B & E, Inc. has fulfilled the committment to the OCD in the past concerning quarterly reporting.

Jim's Water Service being the new owners of the Loco
Hills Brine Station will need to make the same committments to the OCD starting in the new year 1992!

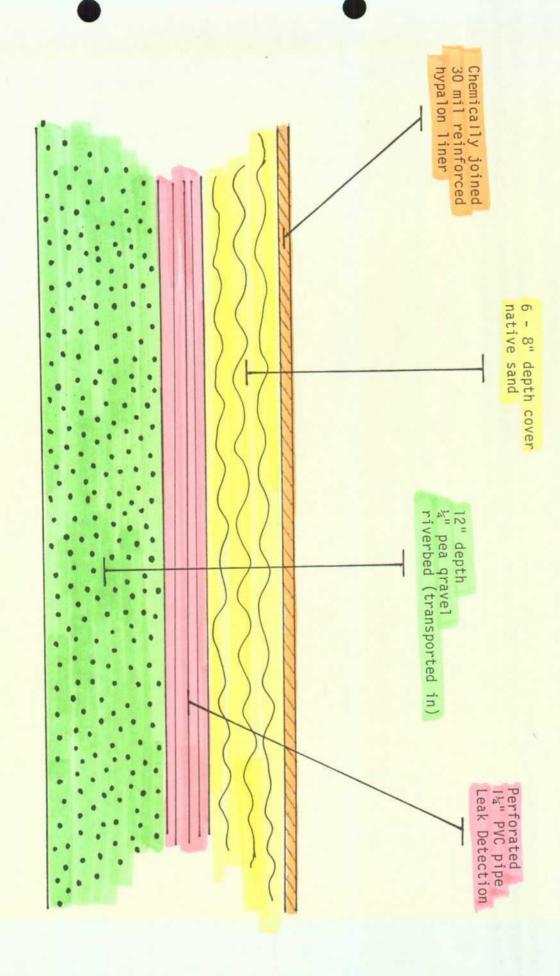
Also, they will need to make committment to the OCD
to be notified within 48 hours of any major leaks
or spills.

3. Brine Storage Pond

The OCD is concerned whether the leak detection system for your single-lined pond is adequate and we require additional information on the construction of the brine storage pond. What type of substrate underlies your leak detection laterals (1 1/4" perforated PVC pipe)? Is it the native substrate or a material transported to the site? What is the composition and permeability of this substrate? Was there any type of porous material (ie. sand) used to fill in the area between the leak detection laterals and the pond liner?

If your pond requires any major repairs in the future then the OCD requires that either the pond be double-lined with leak detection, or B&E provide evidence that the groundwater at your facility (225 feet deep) has a concentration greater than 10,000 mg/l Total Dissolved Solids.

Please see attached drawings and documents, They should answer the above questions that you have asked.



Native Ground

4. Brine Loading Area

Past inspections of your brine facility by both the OCD and EID staff indicates brine spilled onto the ground surface in the brine loading area, specifically around the loading valves. This area must have containment to keep spilled brine off the ground surface. Submit a proposal to contain spills at your brine loading area. Provide an explanation and diagrams detailing how spilled brine is to be contained; include paving and curbing where appropriate and indicate where the spilled brine drains to. Note that all new underground tanks (ie. sumps) are required to have positive leak detection.

Jim's Water Service will provide a proposal to contain spills around the brine loading area. They are aware of the need for containment and leak detection.

5. Maximum Injection Pressure

Pursuant to WQCC Regulation Section 5-206, the maximum injection pressure at the wellhead shall not initiate new fractures or propagate existing fractures in the continuing zone. Your discharge plan application for renewal states that line pressure increases to about 125-130 psi when the freshwater pump is used. What is the maximum injection pressure at the wellhead when the pump is in use? Is the maximum pressure limited by the capacity of the pump or by a safety shut-off device? Submit a proposed maximum injection pressure, a measured and/or calculated fracture pressure for the zone being injected into, and a plan to ensure the fracture pressure value will not be exceeded.

The maximum injection pressure at the wellhead is 150 lbs.

The maximum pressure is limited by the capacity of the pump.

The measured or calculated fracture pressure is 350 PSI.

The fractume pressure valve will not be exceed because the pump capacity is only 150 lbs.

6. Collapse and Subsidence Potential

Because of the relatively thin amounts of overburden rock at your location (400 feet), the OCD is concerned over the potential for collapse and/or subsidence of the strata overlying the salt cavity that B&E has created. Submit evidence that future brine extraction operations well not significantly increase the potential for collapse and/or subsidence. Include details on collapse and subsidence prevention and monitoring. Submit an estimate of the total brine produced to date so that the OCD can calculate the approximate size of the cavity.

21-79

From the records that are available the total amount of brine that has been produced is approximately 3,159,862 barrels.

That figure has been derived from the meter readings each month.

Mr. Al Hickerson who originally drilled the brine well does believe that keeping the cavern full of fresh water and under pressure does give support. Although that is no positive guarantee.

The area in which the brine well is located is not populated and has no heavy above ground structures.

Visual inspection of surrrounding area is done but again is no positive guarantee.

PERMIAN BRINE SALES & SERVICE, INC.

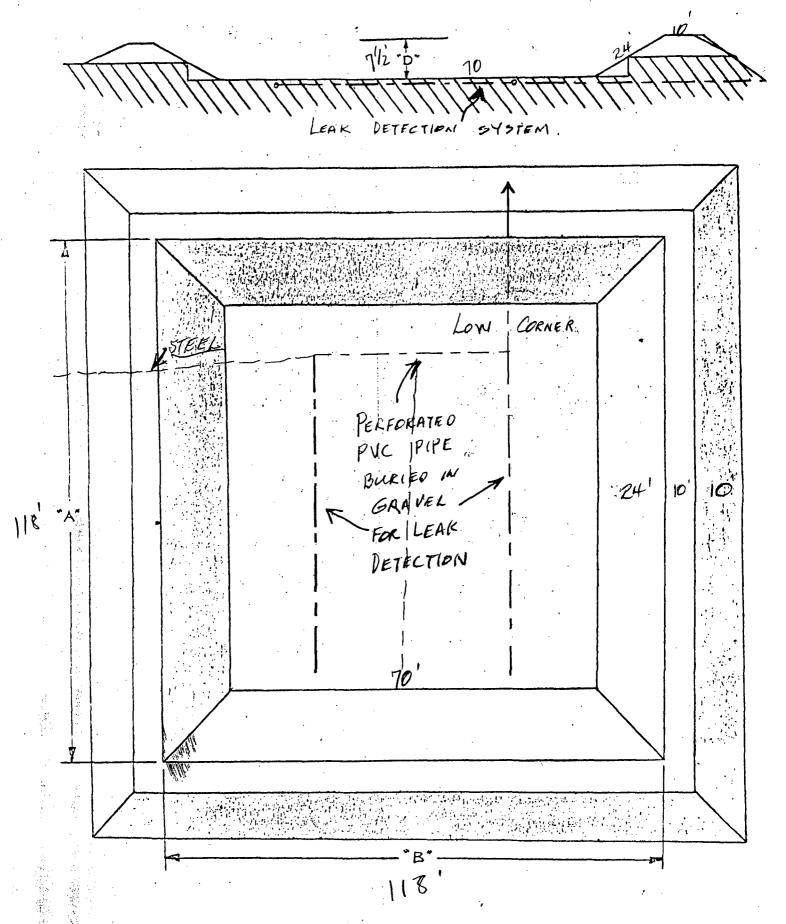
24-HOUR BRINE SERVICE THROUGHOUT THE PERMIAN BASIN

ODESSA, TEXAS

P. O BOX 1591

79760

PHONE 332-0531



BRINE STORAGE PIT EDDY COUNTY, NEW MEX. Sec. 24 TWP 18S RGE. 28E

AN BRINE SALES & SERVICE, INC



NEW MEXICO STATE LAND OFFICE

APPRAISEMENT OF STATE INSTITUTIONAL LANDS FOR right-of-way **PURPOSES**

To the Commissioner of Public Lands, Santa Fe, N.	М.			•
SIR:				
I have personally inspected the following describe New Mexico, and submit this appraisement report to and conditions thereof:			Eddy nent of the i	County, natural character
Subdivision	Sec.	Twp.	Range	Acres
See Exhibit				
		•		
				•
				.'
Attach Exhibit if more space is needed for entire des			lete answer	rs below
CHARACTER	OF LAND	-		
Answer the following questions in all appraisals:				
State the best use for which the land may be adapted	native	pasture	and wildl	ife habitat
State what other uses, if any, it may be or is being t		none		
What is the general terrain or topography of the land				
What type(s) of soil? gravelly fine sand loam		e there a	ny signs of	erosion? yes
If so, what type and to what extent? severe win				
What kind of vegetation is on the land, including gras				<u>ck grama, side-c</u>
grama, little bluestem, Javelina, snakeweed,	sand muh	ly, sand	sagebrush	, and mesquite
Is the land cultivated, grassland, or other? grass	Land		1	
If cultivated, is it dry land or irrigated farm land?	(state acr	eage invol	ivea) <u>no</u>	t cultivated
Are there natural streams, rivers, springs, ponds, same none	and water	holes on	the land?	If so, describe
State kind of merchantable timber, quality, and pres	ent condit	ion, if an	y <u>none</u>	
What irrigation ditches are on the land? If none, the	en distance	e of neare	st oneno	ne
12 miles west to the Peccs River Vallety State the number of wells, depth, and type, on the la	nd, wheth	er used fo	or domestic	. irrigation, or

none State nearest distance to city, town, or village limits and name of municipality Artesia, New Mexico 2 miles northwest Are there any existing or abandoned utility (electric, telephone, or telegraph) lines, railroads, public roads or highways, pipelines, borrow pits, material pits, cooperative irrigation ditches, reservoirs, airports, land strips, or trash dumps on the land? If so, please describe and give approximate location none If any of the above are found on the land, are they a benefit or detriment to the land? Explain none List all improvements, their location, and value (including, but not limited to, houses, barns, stables, their sizes and how built; wells and their depth and description; windmills; fences, their amount, kind, and length; and all other improvements) Name and address of present owner of improvements is: none . State if any trespass or waste has been done to the land, or to any existing natural products thereon, and in what manner, by whom if known, and how it detracts from the value of the land only the trespass to graze cattle and operate oil wells Does the land have any recreational potential, such as cabin sites, etc?

Answer the following questions in specific category for which application is made by appropries

BUSINESS LEASE:

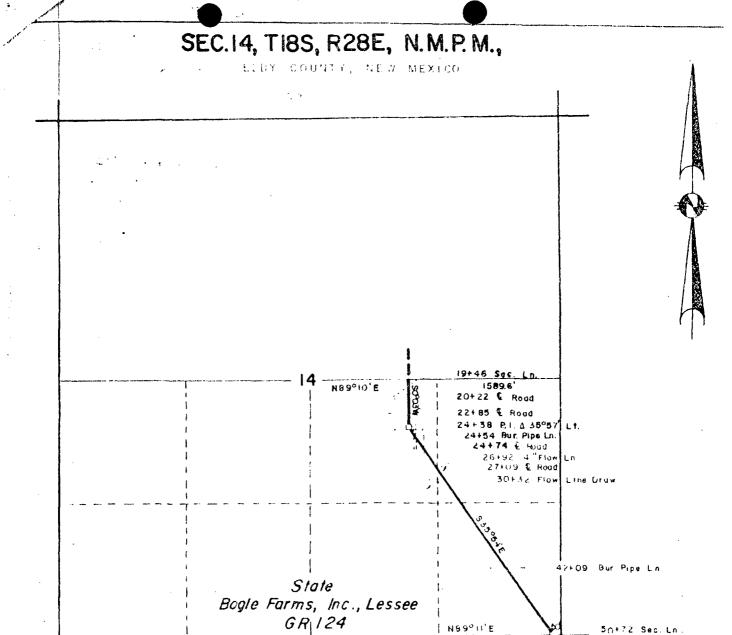
If known, what type of business is the land going to be used for by the applicant? Or is the land being leased for speculative purposes, if known? Estimate how much the parcel would lease for on a yearly basis for commercial purposes

List amounts for which parcels of fee land similarily situated lease for (monthly or annual rentals) If land applied for is within municipal limits, state type and

kinds of businesses or uses to which surrounding properties are being put
State what (type and kind) improvements are located on this land that are beneficial to and consistent with business or commercial use of this land
RICHT OF WAY AND WATER EASEMENT: Is this State land within a declared water basin? Capitan Water Basin Will the construction or use of this right of way (water casement) increase or decrease the value of surrounding State lands? increase Have you examined the plat (survey for right of way) accompanying the application? yes If yes, then is the acreage (width) requested sufficient or excessive for purposes of the right of way? Sufficient Are there any other rights of way (easements) that bisect or cross over the one being applied for? Yes What type and kind? see plats Are there any existing water wells within one mile of lands inspected? none If known, at what depth is fresh water known to exist in this area? not known If known, what damage will be done, if any, to the tangible property of state's prior patentees or lessees of this land by reason of applicant's use in making and constructing of a right of way (water easement) as requested? none SALT WATER DISPOSAL SITES: Have you examined the plat showing the disposal well(s) from which produced salt water is to be disposed of together with necessary pipelines and haul roads, if any? If known, what is the formation into which the salt water will be injected? Will a pipeline, roadway, or other means of conveyance be
necessary to dispose of the salt water in the instant application? If so, what? What tangible surface damage, if any, will occur to other state lessees or patentees by the proposed salt water disposal site, roadway, or pipeline?
Based upon your examination of the land applied for, is there an existing abandoned dry hole(s) located thereon? To what depth, if known
How? Provide water for making brine for drilling of Oil and Gas wells.
STATE OF NEW MEXICO) ss County Lea)
I am well acquainted with the character of said described land and that my personal knowledge of said land is such as to enable me to testify understandingly with regard thereto. After having personally inspected the within described tract of land, I HEREBY APPRAISE THE SAME at and state the ACTUAL CASH VALUE of same for the purpose desired to be \$50.00 per acre (indicate per acre, square foot, or other), and certify that I am not interested in said land or leasing or sale thereof. Signed 12 North Dal Paso Hobbs, New Mexico 88240
Subscribed and sworn (affirmed) to before me this 8th day of September , 19 78 .
My Commission Expires: August 10, 1980
NOTE: The Laws of New Mexico require that all statements in appraisements must be made from personal knowledge, and not upon information and belief; save only those with reference to the actual value of the land appraised. This appraisement must be sworn to before a Notary Public or County Magistrate.

EXHIBIT

Subdivision		Sec.	Twp.	Range	Acres
NWL SEL NEL SEL SEL SEL NEL NEL NWL NWL SWL NWL SEL NWL NEL SWL NWL SEL NWL SEL NWL SEL NWL SEL		14 14 14 23 24 24 24 24 24 24	185 185 185 185 185 185 185 185 185	28E 28E 28E 28E 28E 28E 28E 28E 28E 28E	0.71 0.31 1.13 0.05 1.22 0.05 1.21 0.04 1.09 0.23
	Sub-Total				6.04
NW\ NE\ SW\ NE\	Sub-Total	14 14	18S 18S	28E 28E	0.43 0.91 1.34
	Total				7.38



A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

DESCRIPTION OF RIGHT-OF-WAY

Beginning at Eng. Sta. 19+46, a point on the north boundary line of the south half of Section 14, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, from which the east quarter corner of the said Section 14 bears north 89°10' east a distance of 1589.6 feet; thence, south 0°03' west, crossing the State of New Mexico land a distance of 492 feet to Eng. Sta. 24+38; thence, south 35°54' east a distance of 2634 feet to Eng. Sta. 50+72, a point on the south boundary line of the siad Section 14, from which the southeast corner of the said Section 14 bears north 89°11' east a distance of 50 feet.

The said tract of land contains 2.15 acres, more or less, all within the said Section 14, and is allocated by forties as follows:

STATE ON NEW CONTRACTOR OF THE PARTY OF THE

NWL SEL 0.71 acres NEL SEL 0.31 acres

SEt SEt 1.13 acres

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W. WEST, N.M. PE B LS. NO.676 TEXAS R.R.S. NO. 1138

RONALD J. EIDSON, N.M. L.S. NO 3239 TEXAS R.P.S. NO 1883 PERMIAN BRINE SALES & SERVICE, INC.

Proposed water pipeline crossing the State of New Mexico land in Section 14, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico.

ew Mexico.

JOHN W. WEST ENGINEERING COMPANY

CONSULTING ENGINEERS		новыя,	NEW	MEXICO
Scale: 1" = 1000'	Drawn	by:	cht)
Date: Sept. 7, 1978	Sheet	1 of	1	Sheets

SEC.23, TIBS, R28E, N.M.P.M.,

EDDY COUNTY, NEW MEXICO

N 8 90 H' E 51+42.4 Sec. Line

State Bogle Farms, Inc., Lessee GR 124

DESCRIPTION OF RIGHT-OF-WAY

A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

Beginning at Eng. Sta. 50+72, a point on the north boundary line of Section 23, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, from which the northeast corner of the said Section 23 bears north 89011' east a distance of 50 feet; thence, south 45°00' east, crossing the State of New Mexico land a distance of 70.4 feet to Eng. Sta. 51+42.4, a point of the east boundary line of the said Section 23, from which the northeast corner of the said Section 23 bears north 0°14' east a distance of 50.5 feet.

The said tract of land contains 0.05 acres, more or less, all within the said Section 23, and is allocated by forties as follows:

NEL NEL 0.05 acres

CER WE WEST I HEREBY THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPER-VISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NO 3239 RONALD J. EIDSON, N.M. TEXAS R P.S.

L.S. NO.676 NO. 1138

PERMIAN BRINE SALES & SERVICE, INC.

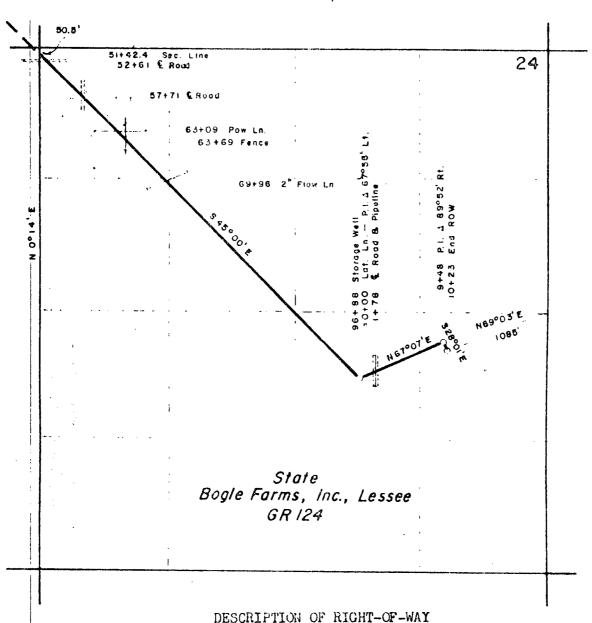
Proposed water pipeline crossing the Stat of New Mexico land in Section 23, Township 18 South, Range 28 East, N. M. P. M., Eddy County New Mexico.

JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXICO

chb Scale: 1" = 3001 by: Drawn Sept. 7, Sheets Sheet of Date:

SEC. 24, T185, R28E, N.M.P.M.

EDDY COUNTY, NEW MEXICO



A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

Beginning at Eng. Sta. 51+42.4, a point on the west boundary line of Section 24, Township 18 South, Range 28 East, N. E. P. M., Eddy County, New Mexico, from which the northwest corner of the said Section 24 hears north 0014' east a distance of 50.5 feet; thence, south 45°00' east, crossing the State of New Mexico land a distance of 4545.6 feet to Eng. Sta. 96+88 equals Eng. Sta. 0+00; thence, north 67007' east a distance of 948 feet to Eng. Sta. 9+48; thence, south 28001 east a distance of 75 feet to Eng. Sta. 10+23, ending this right-of-way, from which the east quarter corner of the said Section 24 bears north 69°03' east a distance of 1085 feet.

The said tract of land contains 3.84 acres, more or less, all within the said Section 24, and is allocated by forties as follows:

cillining NW 1.22 acres 10.05 acres SEt NWt 1.21 acres NEt SWt 0.04 acres

NW SEt 1.09 acres NE¹ SE¹ 0.23 acres

676

TEREBMEN THAT THIS PLAT WAS THAT THIS PLAT WAS MADE THOW WORKS WAVEY MADE UNDER MY SUPER-A BONA FILE VISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

8 1 5

NO 676 TEXAS R.P.S. NO. 1138

RONALD J. EIDSON, N.M. NO 3239 TEXAS RPS NO 1883

PERMIAN BRINE SALES & SERVICE, INC.

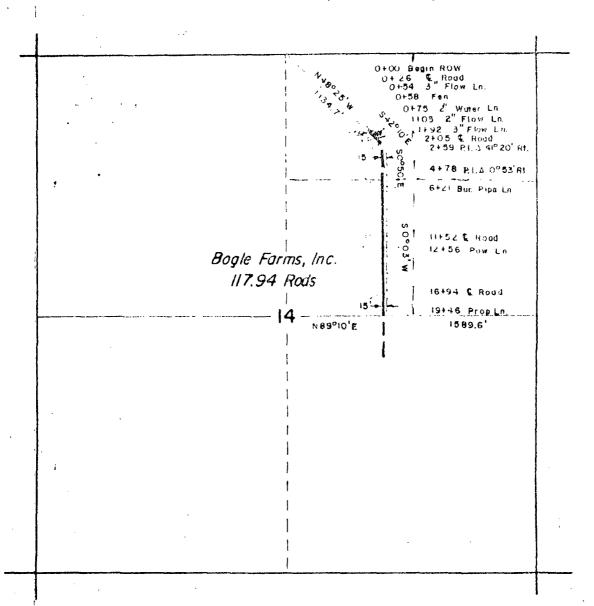
Proposed water pipeline crossing the Stat of New Mexico land in Section 24, Township 18 South, Range 28 East, N. F. P. F., Eddy County New Mexico.

JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXIC

1" = 1.000 chb Drawn by: Scale: Sheet Date: Sept. 8, 1978

SEC. 14, TIBS, R28E, N.M.P.M.

EDDY COUNTY, NEW MEXICO



DESCRIPTION OF RIGHT-OF-WAY

A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

Beginning at Eng. Sta. 0+00, from which the north quarter corner of Section 14, Township 18 South, Range 28 East, N. F. F. F., Eddy Courty, New Mexico bears north 48025 west a distance of 1134.7 feet; thence, south 42010 east, crossing the Bogle Farms, Inc. property a distance of 259 feet to Eng. Sta. 2+59; thence, south 0050 east a distance of 219 feet to Eng. Sta. 4+78; thence, south 0013 west a distance of 1468 feet to Eng. Sta. 19+46, a point on the south boundary line of the north half of the said Section 14, from which the east quarter corner of the said Section 14 bears north 89010 east a distance of 1589.6 feet.

117.94 Rods



The said tract of land contains 1.34 acres, more or less, all within the said section 14, and is allocated by forties as follows:

NW\\ NE\\
SW\\ NE\\\

0.43 acres

0.91 acres

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MEST, N.M. PE. & L.S. NO.676 TEXAS R.P.S. NO. 1138

RONALD J. EIDSON, N.M. L.S. NO. 3239 TEXAS R.P.S. NO. 1883 PERMIAN BRINE SALES & SERVICE, INC.

Proposed water pipeline crossing the Bogle Farms, Inc. property in Section 14, Township 18 South, Range 28 East, N. F. P. M. Eddy County, New Mexico.

JOHN W. WEST ENGINEERING COMPANY
ONSULTING ENGINEERS HOBBS, NEW MEXICS

Scale: 1" = 1000" Drawn by: chb

Date: Sept. 7, 1978 Sheet 1 of 1 Sheet

TO UTILIZE A LINED

PIT

Mex Wexico Oli Conservation Commession
Name of Operator Permian Brine SAles & Service, Inc.
Address P. O. Box 1591, Odessa, Texas 79760
Name of lease upon which evap- oration pit will be located
Location of pit: Unit Letter Section Township Range
Lease(s) which will be producing into pit DNA
Pool(s) which will be producing into pit DNA
Analysis of disposal water: Chlorides DNA ppm. Total dissolved solids DNA ppm. (If more than one pool will be producing into pit, give water analysis for each pool.)
Quantity of water to be disposed of into this pit DNA barrels per day.
Water production from these same wells six months ago DNA bpd. Three months ago DNAbpd (If more than one pool will be producing into pit, give water production data for each)
Method of hydrocarbon entrapment to be employed: Settling tank DNA Header pit DNA
If settling tank is to be used, give size and number of barrels DNA
If header pit is to be used, give dimensions and depthDNA
Header pit lining material DNA Thickness DNA
Dimensions of Brine Storage ("A" and "B" on diagram) 118' x 118'
Number of square feet contained in above 13924
Depth (Top of levee to floor of pit"D" on diagram) 7.5 ft.
Material to be used as liner Reinforced Hypalon Thickness 30 Mil
Does manufacturer recommend protection of material from direct sunlight? Yes No X
If yes, what means will be provided to so protect the material?
Is material resistant to hydrocarbons? Yes X No
Is material resistant to acids and alkalis? Yes X No No
Is naterial resistant to salts? Yes X No
In material resistant to fungus? Yes X No No
Is material rot-resistant? Yes X No
1
If yes, describe method to be used in joining material Chemical Joining
Attach manufacturer's brochure describing the qualities of the lining material.
Describe the leakage detection system to be used <u>Drainage and sump method</u> .
I hereby certify, that the information contained herein is true and complete to the best of my knowledge and belief, and further, that the subject evaporation pit and appurtenances, when installed, will be kept in good repair, and that all due diligence will be exercised in keeping the surface of the water free of oil and other debris.
Name Title Date
Nome Title Date A. L. Hickerson President Approved by Title Date

APPLICATION FOR A SALT MINERAL LEASE ON STATE LAND

Santa	Fe, New Mexico
1, 1989	
	e undersigned, Permian Brine Sales & Service. Inc., whose P. O. Texas Box 1591, Odessa, Texas 79760
	Box 1591, Odessa, Texas 79760 Reference for a period of the text of the period of the text of the period of the text of the text of the period of the text of the
follow	ing described land, to-wit: and as long thereafter as salt in paying quantities
	(shall be produced from said land,
	The NW/4 of the SE/4 of Section 24, R18E, T28S, in
	Eddy County, New Mexico
	is application is made for the purpose of a lease for the mining or production of Salt (NaCl)
on Sta	te Lands, and purposes necessarily incidental thereto, in connection therewith, and the preparation thereof for the
	Twenty-five Twenty-five
	plicant tenders herewith the sum of .(\$25.00) dollars, as the first annual rental, and the further sum
lease.	E Dollars (\$3x00x=filing fee, and further agrees to pay said rental annually in advance for the full term of the
H.	
	plicant further offers and agrees to pay a royalty of10 per cent, of the net proceeds derived from the sale
of _S.	alt (in brine) from said leased lands, and known and said said said said said said said sai
An	ed in relation to this application, the applicant respectfully states and shows the following facts:
	Discovery of Salt was made on said land on or about: April, 1955
	The work done in connection with same is as follows: Nix & Curtis Gulf State No. 2
	Cable tool prospective oil well was drilled and rock salt
	was encountered from 397 ft. to 680 ft.
3.	The amount of produced on said land is as follows: None_to_Date
4.	A brief description of the mode of occurrence of the deposit of Salt and the nature of the
国际基	same is as follows: Rock salt from 397 to 680 feet with intermittent
	thin layers of anhydrite and shale.
5.	The salt will be prepared for market in the following manner at an estimated cost of \$40.000
	not including cost of production: for solution mining and selling in brine form.
6.	The salt will be produced and marketed at: location on side of paved.
	road which crosses tract.
7.	The estimated tonnage or amount to the produced and general plan of operations are as follows:
73 3	Estimated tonnage - 500 tons per month, or 9,000 bbls. of saturated
	brine, containing 111 lbs. of salt per barrel.
	是一种的一种,我们们是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一
8.	Statement of any information not covered above, relating to operation of the lease applied for:
	We plan to re-enter the plugged and abandoned Nix & Curtis Gulf State
	#2 Well, set and cement another casing string at 397 ft., hang tubing
	in open hole to 675 ft., and circulate fresh water to dissolve rock
	salt for sale as bring
I,	Av I. Hickerson do solemnly swear (or affirm) that the statements and
answe	rs to questions in this application are true and correct, to the best of my knowledge and belief. PERMIAN BRINE SALES & SERVICE, INC.
	Signed franksing Presiden
1,	P. O. Box 1591, Odessa, Texas 79760
e Parade Service	集計・機能能しているとう。CDA A A A A COLOR A COL
Su	abscribed and sworn to before me this 22 1 day of frame, 1978
人名德维洛曼	The contractive of the Albertain and the contraction of the contractio

Equipment & Supplies Fresh Water Brine Supply Wells Salt Water Disposal

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 OIL CONSERVE ON DIVISMONCH Trucks
RECE VED Kill Truck
Frac Tanks

'91 NO 14 AN 8 44

Nomember 12, 1991

State of New Mexico Oil Conservation Division P.O. Box 2088 State Land Office Bldg. Santa Fe, New Mexico 87504

RE: Discharge Plan BW-5 (formerly DP-322) B & E, Inc. Loco Hills Brine Station

ATT: Kathy Brown

Enviornmental Geologist

Attached please find description and charts pertaining to the Mechanical Integrity Test for the Loco Hills Brine Well.

B & E, Inc. has sold the Loco Hills Brine (State 24 #1) to Jim's Water Service Company of Colorado. Our attorney; Ernie Yarbro is in the process of working up the contract of sale, to be approved by both parties.

At which time the contract of sale is approved and signed B & E, Inc. will surrender all necessary paperwork to Jim's Water Service. Jim's Water Service is aware of the necessary construction work that needs to be done around the brine loading area. It is my understanding that they have talked to Southwest-Concrete of Artesia to do the work. Southwest did our work around our Eugenie Brine Station in Carlsbad so are aware of what-procedures need to be done along with the required leak detection.

I'm also under the impression that Mid Ray Clark of Jim's Water Service has talked with the OCD in Santa Fe about the brine well.

If you have any questions just call us. (800-658-2739)

Sincerely,

Valerie Lemon-Pierce

Asst. General Manager

xc: file

Artesia-OCD

Attachments



FEC. ZED

UNITED STATES DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE '91 AUR 14 AM 8 43

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

August 9, 1991

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

Dear Mr. Lemay:

This responds to the Public Notice dated July 1, 1991, regarding the affects of granting State of New Mexico groundwater discharge permits on fish, shellfish, and wildlife resources in New Mexico.

The U.S. Fish and Wildlife Service (Service) has determined there are no wetlands or other environmentally sensitive habitats that will be adversely affected by the brine water discharge permit BW-15; however, there is wildlife in the area that could be adversely affected.

BW-15 B & E Incorporated is an insitu extraction brine well facility located in the NW/4, SE/4, Section 24, T18S, R28E, Eddy County, New Mexico. Brine water extracted through well injection may contain certain inorganic elements at levels that potentially could be harmful to migratory birds that come in contact with the holding ponds. If the brine water ponds are found to pose a risk to wildlife, then the Service requests further consultation with the Oil Conservation Division before the granting of this permit.

Migratory birds are protected under the Migratory Birds Treaty Act (MBTA). If migratory birds become exposed to or accumulate harmful levels of contaminants, this constitutes "take" under the MBTA. The MBTA makes it unlawful for anyone at any time or in any manner to capture, transport, or kill any migratory birds unless permitted by regulations promulgated under the Act. The courts have stated that the MBTA can be constitutionally applied to impose penalties to persons, associations, partnerships, or corporations which did not intend to "kill" migratory birds and that the MBTA includes poisoning by any means. The MBTA holds that the unlawful killing of even one migratory bird is an offense (Olive, S. W., and R. L. Johnson. Environmental Contaminants: Selected Legal Topics. Fish and Wildlife Service Biological Report 87(1), November 1986). If any documented taking of migratory birds occurs from the effect of the brine water ponds subsequent to granting the discharge permit, then the Service will turn the case over to the proper authorities for review and possible prosecution under the MBTA.

If you have any questions concerning our comments, please contact Scott P. Hamilton-McLean or Richard Roy at (505) 883-7877.

Sincerely,

Jennifer Fowler-Propst Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico Regional Administrator, Environmental Protection Agency, Dallas, Texas Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife Enhancement, Albuquerque, New Mexico
Assistant Regional Director, U.S. Fish and Wildlife Service, Division of Law Enforcement, Albuquerque, New Mexico

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION

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

July 26, 1991

CERTIFIED MAIL
RETURN RECEIPT NO. P-757-737-753

Mr. Phil Withrow
B&E, Incorporated
P. O. Box 756
Carlsbad, New Mexico 88220

RE: Discharge Plan BW-5 (formerly DP- 322)
B&E Inc., Loco Hills Brine Station

Dear Mr. Withrow:

The Oil Conservation Division (OCD) has received and is in the process of reviewing the above referenced discharge plan renewal application. The following comments and requests for additional information are based on review of the application, dated June 24, 1991. Please note that the new discharge plan number is BW-5, not BW-15 as stated in the public notice.

1. Mechanical Integrity Testing

Pursuant to revised OCD guidelines for discharge plans at brine facilities, all wells must be pressure tested (openhole) to 500 psi for 4 hours on an annual basis. A pressure test isolating the casing from the formation using either a bridge plug or a packer must be conducted at least once every 5 years or during well workovers. The last pressure test on file for the State 24 No. 1 Well at your Loco Hills Brine Facility was an open-hole test performed on March 2, 1988. The results from a current pressure test will be required prior to the approval of any brine facility discharge plan application or renewal. If the immediate test is performed using the open-hole method, than a pressure test isolating the casing from the formation is required within the next 1 1/2 years. Note that an OCD representative must be on site to witness all pressure tests and we request 10 days before the test to allow us to make arrangements. Submit a proposal for

Mr. Phil Withrow July 26, 1991 Page 2

testing and ensuring the mechanical integrity of the well. Also, submit information on any buried brine pipelines including age and material of the lines.

2. 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. This includes the quarterly report listing of volume of fluids injected and produced, the quarterly report of inspection of your leak detection system, and the annual analyses of injected and produced waters. 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).

3. Brine Storage Pond

The OCD is concerned whether the leak detection system for your single-lined pond is adequate and we require additional information on the construction of the brine storage pond. What type of substrate underlies your leak detection laterals (1 1/4" perforated PVC pipe)? Is it the native substrate or a material transported to the site? What is the composition and permeability of this substrate? Was there any type of porous material (ie. sand) used to fill in the area between the leak detection laterals and the pond liner?

If your pond requires any major repairs in the future then the OCD requires that either the pond be double-lined with leak detection, or B&E provide evidence that the groundwater at your facility (225 feet deep) has a concentration greater than 10,000 mg/l Total Dissolved Solids.

4. Brine Loading Area

Past inspections of your brine facility by both the OCD and EID staff indicates brine spilled onto the ground surface in the brine loading area, specifically around the loading valves. This area must have containment to keep spilled brine off the ground surface. Submit a proposal to contain spills at your brine loading area. Provide an explanation and diagrams detailing how spilled brine is to be contained; include paving and curbing where appropriate and indicate where the spilled brine drains to. Note that all new underground tanks (ie. sumps) are required to have positive leak detection.

Mr. Phil Withrow July 26, 1991 Page 3

5. <u>Maximum Injection Pressure</u>

Pursuant to WQCC Regulation Section 5-206, the maximum injection pressure at the wellhead shall not initiate new fractures or propagate existing fractures in the continuing zone. Your discharge plan application for renewal states that line pressure increases to about 125-130 psi when the freshwater pump is used. What is the maximum injection pressure at the wellhead when the pump is in use? Is the maximum pressure limited by the capacity of the pump or by a safety shut-off device? Submit a proposed maximum injection pressure, a measured and/or calculated fracture pressure for the zone being injected into, and a plan to ensure the fracture pressure value will not be exceeded.

6. <u>Collapse and Subsidence Potential</u>

Because of the relatively thin amounts of overburden rock at your location (400 feet), the OCD is concerned over the potential for collapse and/or subsidence of the strata overlying the salt cavity that B&E has created. Submit evidence that future brine extraction operations well not significantly increase the potential for collapse and/or subsidence. Include details on collapse and subsidence prevention and monitoring. Submit an estimate of the total brine produced to date so that the OCD can calculate the approximate size of the cavity.

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

Sincerely,

Kathy M. Brown

Environmental Geologist

xc: OCD Artesia Office

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

I.	OPERATOR/LOCATION INFORMATION
	Operator: BE Incorporated mr. Phil Withrow-Owner Ms. Valerie Lemon Secretary
	Address: South Y, P.O. Box 756 Loving to Recos Huy: Carlsbad, NM 88220 Phone: \$85-6663
	Facility Loco Hills Brine Station - State 24#1
	T. 185 R. 28E Sec. 24 NW 1/40f SE 1/4 Unit J
	County: Edd, (Artesia Office) 1987.9' FSL, 1930.4' FEL
	Purpose of well (brine supply, LPG storage, potash dissolution)
	Brine Supply
п.	DRILLING/SITING INFORMATION
	Contractor: Nixt Curtis No. 2 Gulf State
	Date drilling started 3-19-55 Date drilling completed 5-11-55
	Drilling method (alle 0-300°)
	Ground Surface Elevation 3503 KB Elevation
	Total depth of hole 3009'TO, BB 740'PBTD Wrkedover Brie well 740' PBTD Attach schematic of well, include open hole interval, perforations, etc.
	Type of drilling fluid
	Describe all casing tests performed to date 10-20-85 30 psi for 20 hours.
	10-7-86: Upable to had pressure @ 200 psi van tracer survey
	3-2-88: Held 75 psi for 2 hours, open-hole test.

CASING, TUBING AND CEMENTING RECORD

	From To	Size of Hole	Size of Casing	Weight per Foot	Sacks of Cement	Estimated Top of cmt.
used 7	0' +0416'	10"	85/3"	24#	505×	surfa y
Pipe	0' to 660'	8"	23%		hung, no	o packer

Is site within 1/2 mile of another well? Is so, explain. 465.

Morrow Gas Well; Heyco Travis St. 24, Com# 1 =D H-24-18-28

2) SI monow bushed; Anadarko Prod, Turky Track St. Com# 2 = F-25-18-28

(3) Anadorko Mobil ST. # 1 => F-24-18-20

Type of well-head equipment_

Comments (include problems encountered while drilling, loss of circulation, deviation of hole from vertical, centralizers, used, tools lost or stuck, fracturing techniques used, etc.) 5-11-55: TD Nix (Curns Gulf State No. 2

5-14-55: P/A Well, plugs 3009'-2965', 2350'-2320', 420'-390'

12-18-78: Re-entered hole, found plug @ 1540'. Set remplugs
@ 1540'-1400' and 1000' +740'. Hung tubing to 660'. After

completion found hole in 856' (sg @ 42'. Squeezed hole w/ 100 sx

cement (3% (acts)) & filled cannulus from top w/ 4 yds concrete.

Test (sg + then formation to 170#.

III. FORMATION INFORMATION

Formation Record

From	То	Thickness	Formation (name, description)
0'-	20'	20'	Caliche
20'-		/	Sand & Gravel
62' -	220'	1581	Red Beds & Gravel
220'-	250°	30′	Sand & Gypsum (water 225-245')
J50' -	3971	147'	Red Beds of some gypsum's shalf
397-	680/	2831	Salt
680'-1	1785	1105'	Anhydrite w/ some dolomito & lime
1785'-	30091 (TD)	1224/	Line w/ some sand. Lots of water tests showing water through out the line.

Logs (specify type) None no. Offset Well to north
(Simms/Reese Gulf State 1 => 24-18-28) has germa-ray-
neutron. TD 2324' logger
Identify where logs are on file

IV. AQUIFER INFORMATION

Aquifers in Immediate Area

From	То	Aquifer Description	Amount of Water entering hole	Quality of Water
225′+1	0?	- EID Public no Sand& Gypsum	tree —	Unknown

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

Source of aquifer description State of NM Encheers office (10-16-85) states no
freshwater wells within 3 miles of facility. Closett well is in
Source of aquifer description State of NM Engineers office (10-16-85) states no freshwater wells within 3 miles of facility. Closeff well is in Source of water level and quality data Nw/4, NE/4, Sec. 21, T185, R28E, complete in Artesia Group (mid Permian) with CT of 134 ppm. Depth water first encountered during drilling > 225/ to 245/ sand & gypsum, qual
Depth water first encountered during drilling > 25' to 245' sand \$ 370 sum, qual
Direction of water gradient
Explain any evidence of water contamination

V. PRODUCTION/BRINE STORAGE INFORMATION

Method of production (describe fully) Water is injected dawn well bor	e (80
at sizeline pressure and brine is returned to the	
of pipeline pressure and brine is returned to the (25 psi) (bru. Duble Eagle values t wellhead) surface at 30 GPM. Booster pump available to increas	
surture at 30 GPM. Booster pump available to increas	
injection pressure to 75 GPm. Water is then piped	
to the pend. Meter water bought & brine sold & commi	ted
to quarterly reporting.	
Was well used previously for some purpose other than brine supply	
If so, explain	
Use of brine oil field drilling & workover fluids (10#bone)	
Source of injection water (be specific) City of Carlsbud	
(4-82 had 30ppm C1,), Double Eagle Water System's	
pipeline, 1:5 mi NW.	
Date of first production	ı
Volume of brine produced to date	
Weight of salt removed to date	
	•
Calculated size and shape of cavity to date	
Calculated size and shape of cavity to date	

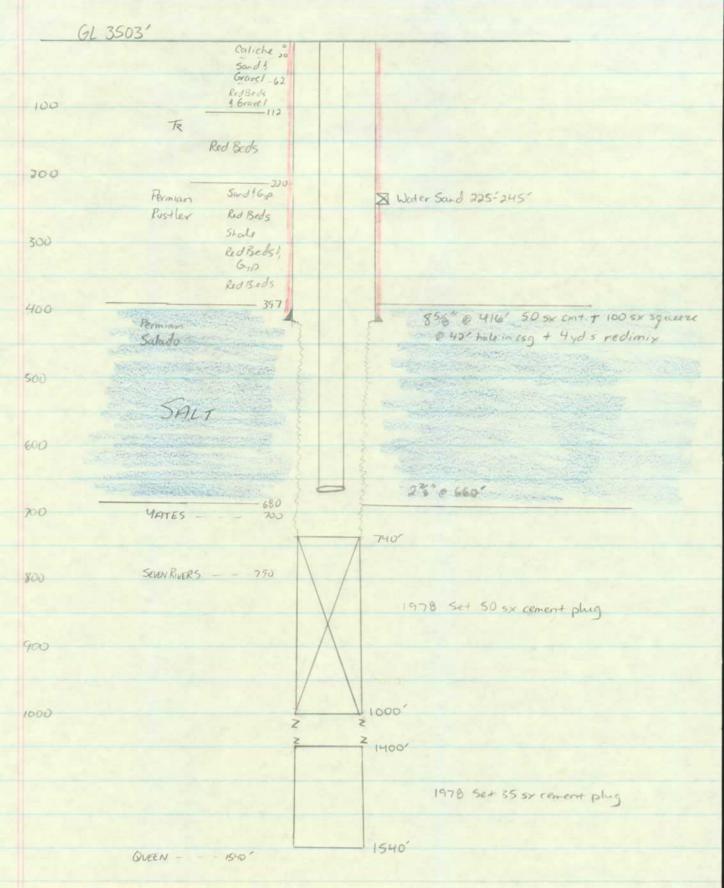
Explain any evidence of subsidence and any subsidence monitoring
Brine storage facilities (describe) 148/×118/× 7.5/ brine storage por
with 10,000 bbl. storage capacity. Lined with 30 mil
polyethylene film. Leak delection is 1"4" perfora
PVC pipe - 3 'lalerals attached to main pipe leading
to sump. Lineris 12 years old (installed 41979)
Explain how brine storage pit is being monitored for leakage Will report logales according to OCD rule 1-203
Explain brine loading procedures 8 meters with locks
read & billed to rustomers monthly.
Explain fresh water loading procedures

(reinforced) hypoton

VI. ABANDONMENT/PLUGGING RECORDS

Date well abandoned/plugged
Reason for well abandonment or plugging
Method of plugging or proposed plugging (describe fully, include amounts of cement,
etc. top, plug type, depth, etc.) P/A plan for BEE bone well entails
filling cavity with bone of cementing from surface to
466 (csgshoe @ 416'). P&A bids less than \$5000.
List all conduits in the area of review. Include completion and plugging records.

12-78: Factly boulft by B+E+PBS 12-18-82: OLD approves DP # GWB-4 for Permian Brace (8xp. 12-18-87) CHRONOLOGY OF EVENTS
1983: Change ownership from Permian Brone to B& E VII. 9-18-85: ED letter to BEE requesting a discharge plan BLE submits on & Assurance of Discontinuance radditional into 11-26-85: EID revises the Assurance of Discontinuance (final 12-1885) 4-17-86: EID requests additional DP info. 4-22-86. Bit agrees to comply up Permians DP 8-5-86: BEE submits additional DP into 12-2-86: PEE commits to Ocement bond log @ Quarterly vol. reports (3 annual MIT & hut bu analyses (3) daily leak detection monitor 12-19-86: FID approves DP-322; expires 12-19-91 OCO district office OK'S pit net exception to Rule 8952 9-11+89;





STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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

(BW-15) - B&E Incorporated, Phil Withrow, P. O. Box 756, Carlsbad, New Mexico, 88220, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The B&E Loco Hills Brine Station is located in the NW/4, SE/4, Section 24, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico. Fresh Water is injected to an approximate depth of 456 feet and brine is extracted with an average total dissolved solids concentration of about 300,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth exceeding 225 feet with estimated total dissolved solids concentrations ranging from 600 mg/l to 6000 mg/l over a 5 mile radius. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 1st day of July, 1991. To be published on or before July 17, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATU-RAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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day of July, 1991.

STATE OF NEW MEXICO.

OIL CONSERVATION OF OF ONE OF O

STATE OF NE_MEXICO County of Bernalillo

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OIL	CONSER	JN	DIVISION
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AM 9 32

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

for\	times, the first publication being on theday
ofQu	1991, and the subsequent consecutive
publications on	,1991.
CIAL SEAL UNCOLATE ORTIZ BLIC-NEW MEXICO SECRETARY OF STATE 12-18-93	Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this
CLA-22-A (R-12/91)	ACCOUNT NUMBER C 81184

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

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day of July, 1991.
STATE-OF-NEW FX-CO
OIL CONSERVATION DIVISION
WILLIAM
Journal, July 18, 1991

STATE OF NEV_IEXICO County of Bernalillo

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OIL CONSERVE ON DIVISION RECEIVED

JUL 22 AM 9 20

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	of Qul	times, the first publication being on the day
in the state of the second	publications on	Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this day of 1991. PRICE 227
) -		Statement to come at end of month.
s	CLA-22-A (R-12/91)	ACCOUNTNUMBER C 31184

OF NEW MEXICO.

Coun	ty	of	Eddy:	

County of Eddy.	
Gary D. Scott	being duly
sworn, says: That he is the Publisher	of The
Artesia Daily Press, a daily newspaper of	f general circulation,
published in English at Artesia, said count	y and state, and that
the hereto attached <u>Legal Notice</u>	
was published in a regular and entire issu Daily Press, a daily newspaper duly quali	
within the meaning of Chapter 167 of the	1937 Session Laws of
the state of New Mexico for 1 the same day as follows:	days consecutive weeks on
First Publication July 12, 1991	
Second Publication	
Third Publication	
Fourth Publication	
Jan 1	cott
Subscribed and sworn to before me this	12th day
of	<u>July 19 91</u>
Notary Dublic Pold	L'alisant
My Commission expres Sentember 22	County, New Mexico

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 Conmission Regulations, the fol-

to the Director of the Oil Conservation Division, State Land Office Building O. Box 2088, Santa Fe, N. Mexico 87504-2088, Telephone (505) 827-5800:

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Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 1st day of July, 1991. To be published on or before July 17, 1991.

STATE OF NEW MEXICO
ONLYCONSERVATION
DEVISION

SEAL

1991.

Published in the Artesia Daily Press, Artesia, N.M. July 12,

Legal 13603

B & E, INGIL CONSERVATION DIVISION RECTIVED

Carlsbad, N.M. 882201 JUN 25 AM 9 12

Phone (505) 885-6663

South Y

Vacuum Trucks Winch Truck Kill Truck Frac Tanks

June 24, 1991

Uil Conservation Division State Land Office Bldg. P.U. Box 2088 Santa Fe, NM 87504

RE: Discharge Renewal BW-15 (formerly DP-322)

ATT: Dave Boyer Kathy Brown

Please find attached all pertinent information for the renewal of the brine discharge plan for State 24 #1 or Loco Hills Brine Station.

We have tried to address every issue to the best of our knowledge and resources. I'm sure that there will be some questions or issues that you will need further information on. Please don't hesitate to contact me at 800-658-2739.

Again please contact me if you require any more information. We do appreciate your patience and want to thank you for your consideration during these renewals.

Sincerely,

Valerie Lemon-Pierce

Office Manager B & E, Inc.

Attachments

xc: file

OCD Artesia District

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

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P.O. Box 2088 Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES

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

	, , , , , , , , , , , , , , , , , , , ,
	□ NEW ☑ RENEWAL
I.	FACILITY NAME: State 24 #1 Loco Hills Brine Station
II.	OPERATOR: B & E, Inc. (Accounting Office - P.O. Box 2292, Hobbs, NM 88241) ADDRESS: P.U. Box 756 Carlsbad, NM 88220 (Main Operations) South Y Loving-Pecos Hwy CONTACT PERSON: Eddy Menzdorf/Mgr. Valerie Pierce/ofc/mgr.PHONE: 505-885-6663
III.	LOCATION: NW /4 SE /4 Section 24 Township 18S Range 28E 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.
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: Many Mongaley Title: Minigal
	Signature: Jalua Jomon - Julia Date: 6-24-91 Valerie Lemon-Pierce Offul May.
DISTRIB	UTION: 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

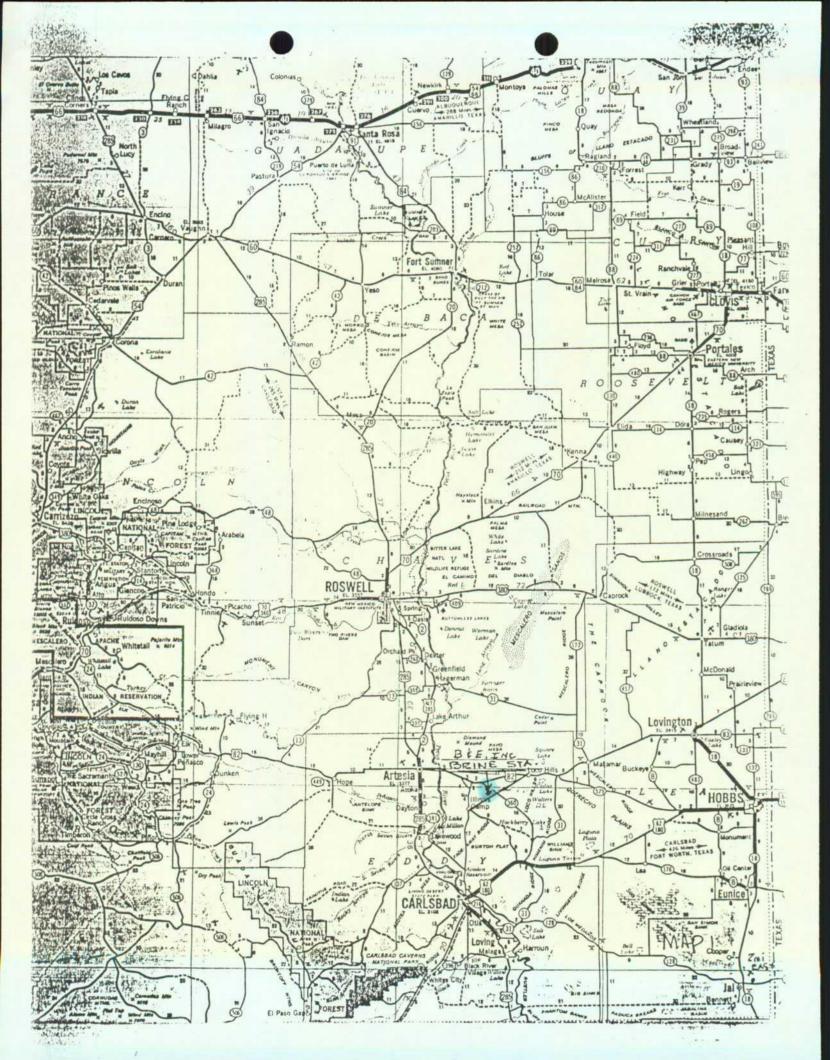
P.O. Box 2088

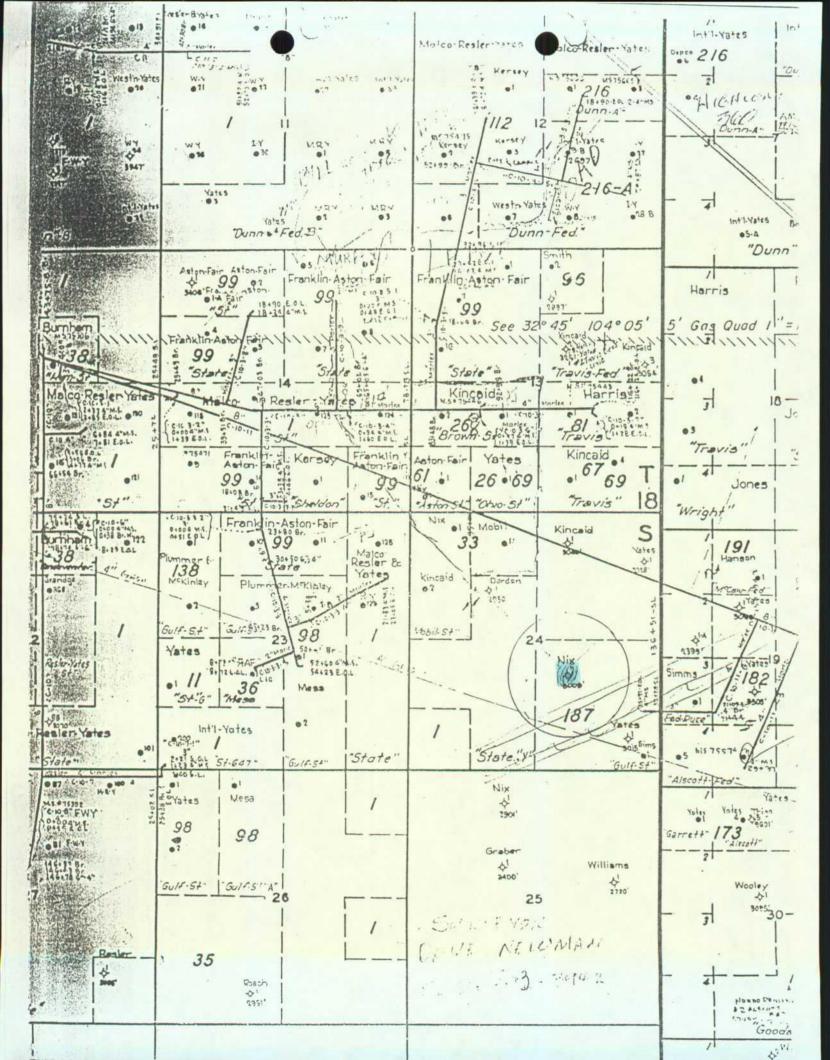
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	Name: Ady M. Margaley Title: Managel
	Signature: Taleyce Lemon - Terino . Date: 6-24-91
	Valerie Lemon-Pierce Offer Mgg.
	$\nu \nu$. ()

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





knowledge and belief.

Registered Professional Engineer

Date Surveyed

Certificate No.

Effective 1-1-65 All distances must be from the outer boundaries of the Section. Brine Sales _Service,Inc State-Section 18 South 28_East Actual Footage Location of Well: <u>1987</u> 9 feet from the South 1930 feet from the Ground Level Elev. Producing Formation Dedicated Acreage: Wildcat 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation _ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Position Re-Entry of Nix & Curtis Gulf State No. I Survey Attached I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my

2000

1500

1000

330 660 90 1320 1050 1980

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks Winch Truck Kill Truck Frac Tanks

LOCO HILLS BRINE STATION

State 24 #1

Sec 24 T 18S R 28E

County Rd. 217

Phil & Julie Withrow (owners)

P.O. Box 2292

Hobbs, NM 88241

(Accounting Office)

P.U. Box 756

South Y Loving Hwy

Carlsbad, NM 88221

(Main Operations Yard & Office)

Eddy Menzdorf, Manager

Valerie Lemon-Pierce, Office Manager

TWP 185

24

BRINE WELL
STATION

25

SCALE 1": 2000"

B & E, Inc. Brine Sales Well St. 24 #1 1988' FSL - 1930' FEL S.24 T.18S R.28E Eddy Co., New Mexico



M-12 (7/1/82)

NEW MEXICO STATE LAND OFFICE

ASSIGNMENT OF MINERAL LEASE

State 34

MAY 31 1988

KNOW ALL MEN BY THESE	PRESENTS:				•
That Permian Bri (Assignor, in	clude wife if app	licable)			n consideration of .
the sum of One Dollar	, and other good	and valuable consi	deration paid by		
whose Post Office add has sold, transferred the Assignee, his hei that certain Mineral Sales & Service only insofar as said	, set over and as rs, successors an Lease No. M-19	signed, and by the d assigns, all of 0609 mad	se presents doe the Assignor's e by the State of er date of	, hereinafter cal s sell, transfer, set	t and claim in and to
Institution	Section	Township	Range	Subdivision	Acres
Univ	24	185	28E	NWof SE	40
				*	
Together with the per herewith.	sonal property th	ereon, if any, app	ourtenant thereto	o, or used or obtaine	d in connection
The Assignee assumes lands are affected, a as to the above-descr lease were fully set	nd to pay such re ibed subdivisions	ntal and royalties , to the same exte	, and to do suclent and in the s	h other acts as are b ome manner as if the	y said lease required
It is agrees that the the terms of said lea				s and privileges gram	ited the Lessee by
Signed this 13	day of	September	. 19 83	i withrow	
SECRETARY	Corporation Only		ASSTENOR X	(If Corporation Prin Corporation and Exe WIFE (It Applicable	
		(PERSONAI	L ACKNOWLEDGMENT)	•
STATE OF .	,	1	•		
COUNTY OF	:	\$\$. }			. •
The toregoing in	nstrument was acki	nowledged before m	e this	day of	, 19
hy					
My Commission Expires	s:			Notary	Public
				_	ruotic
	:		NT BY ATTORNEY-1	IN-FACE)	
STATE OF	· ·) .ss.	•		
COUNTY OF	!)			•
The foregoing is	nstrument was ack	nowledged before m	e this	day of	. 19
by				as atto	rney-in-fact in behalf
	ļ				
My Commission Expire	s:			. flotary t	Poblic
				. HOLATY I	uv i i i

STATE OF NEW MEXICO

ONE-WELL PLUGGING BOND

FOR ALL COUNTIES EXCEPT:
CHAVES, EDDY, LEA, MCKINLEY, RIO ARRIUA, ROOSEVELT,
SANDOVAL, AND SAN JUAN

BOND NO.

	•		AMOUNT OF BO	UNU \$5,000	0.00
			COUNTY	Eddy	· · · · · ·
	· · · · · · · · · · · · · · · · · · ·				
SOUF	For wells less than 5,000 feet deep, the minimum band is \$7,500 to 10,000 feet deep, the minimum band is \$10,00				
	For wells more than 10,000 teet deep, the minimum bond is \$12,5				
	Unida conserva inha one, a well being dially mode a \$5.50 (195) or \$10,000 (stimus to early temperatures a \$1.500 (9) Kinglionas (experimented to go to \$1.000 here, a key - 105,000 (194)	er pe comment no ter drollest as must			
	File with Oil Conservation Commission	n, P. O. Box 2088, San	tu Fe 87501		•
<zow.< td=""><td>ALL MEN BY THESE PRESENTS:</td><td></td><td></td><td></td><td></td></zow.<>	ALL MEN BY THESE PRESENTS:				
11	ha B & E., Incorporated		(<i>a</i>	. ૧ કે કે	paetnoeship)
aceren.	ation organized in the State of New Mexico		, with its	principal office i	n the city of
Hob	bs State of New Mexico		, :	nd authorized to	do business
a the Sci	ne of New Mexico), as PRINCIPAL, andSafeco Insu	rance Company	/		, s
orporati	ion organized and existing under the laws of the State of <u>Was</u>	shington			
	horized to do business in the State of New Mexico, a		•		
	for the use and benefit of the Oil Conservation Com-				
	Statutes Annotated, 1953 Compilation, as amended, in the sum				
	Liwful money of the United States, for the payment of Thereby bind themselves, their successors and assigns, jointly at		•	le, said PRINC	CIPAL and
1	he conditions of this obligation are such that:				
W	VHEREAS. The above principal has heretofore or may hereafter	r enter into oil and gr	is leases, or carbon	dioxide (CO2) g	as leases, or
relium g	gas leases with the State of New Mexico; and				• • • • • • • • • • • • • • • • • • • •
W	VHEREAS. The above principal has heretofore or may hereafte	r enter into oil and g	is leases, or earlion	dioxide (CO2) g	as leases, or
iclium j	gas leases on lands patented by the United States of America	a to private individua	ils, and on lands	otherwise owner	by private
individu.	als; and	•		•	
\	VHEREAS, The above principal, individually, or in asse-	ociation with one o	or more other p	arties, has con	imenced or
may con	numerice the drifting of one well not to exceed a depth of -5.00	00	feet, to	prospect for and	l produce oil

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

24 Township 18 (North) (South), Range

____County, New Mexico.

the East line Section_

or gas, or curbon dioxide (CO₂) gas or helium gas, or does own or may acquire, own or operate such well, or such well started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO₂) leases, or helium gas leases, and on land patented by the United States of America to private individuals, and on land otherwise owned by private individuals, the identification and location of said well being 1987.9 feet from the South line and 1930.4 feet from

thresheeser legit sublicional to 40 acretication to 10 (North) (South), Range 28

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

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks Winch Truck Kill Truck Frac Tanks

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The fluids stored at Loco Hills Brine Station is strictly 10# brine produced by injecting Double Eagle Fresh (City of Carlsbad water) at 75# average line pressure down the well and saturating brine (salt beds) and extracting to the surface. It is stored in an open pit. The line pressure flowing brine to the pit is 25#.

The amount of brine produced and stored fluctuates from day to day and month to month according to need or demand. Usually our customers will call us when they need to haul brine and we will see to it that there is enough brine to meet their needs.

A company employee checks the station daily as to the level in the pit. The employee sees to it that the pit is kept relatively full of brine to fulfill the need by the haulers who have meters.

There are 8 meters and each customer is issued a meter and they are ultimately responsible for their own locks, keys and/or combinations.

At the end of each month we read the meters and bill the customers accordingly.

Most of the brine is produced by just flowing (25# pressure). When we use the pump (located $\frac{1}{2}$ way between the Double Eagle Main valves and wellhead) the line pressure is about 125-130#.

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B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks Winch Truck Kill Truck Frac Tanks

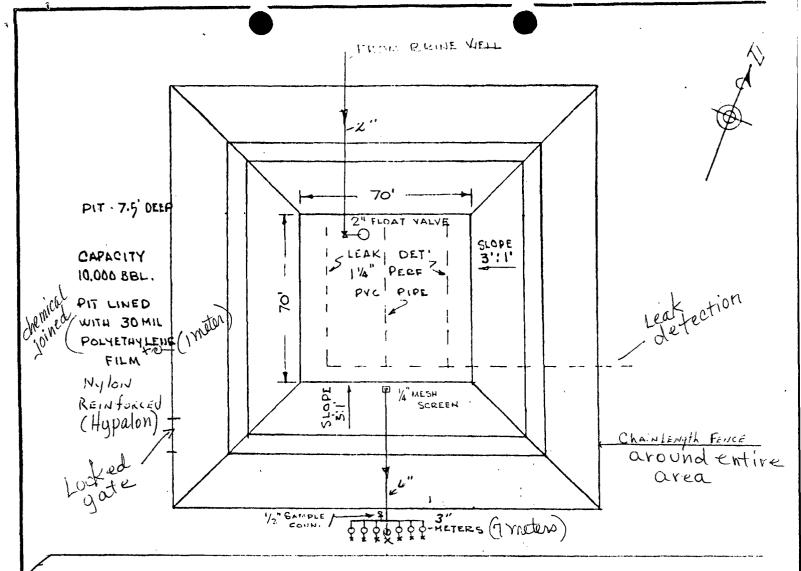
VI.

The facility was built in December of 1978 under the joint ownership and operation of B & E, Inc. and Permain Brine Sales, Inc. B & E, bought out Permian Brine Sales in September of 1983.

(See attached OCD document showing and allowing change in ownership).

Attached please find a map showing surface impoundments (area, depth of pit, capacity (volume) slope of pit sides, line type and thickness and leak detection methods).

Also, please find three (3) aerial views of the pit, highway location and truck loading (meters). Also, close-ups of the pipes and loading valves.



TRUCK LOADING

HIGHWAY"

Each customer has their own meter. When a transport arrives the driver will make the necessary connections and unlock the valve, then load with his own truck pump. The Brine Water is pumped from the bottom of the reservoir up and over the dam and through the 3" water meter, which determines the volume purchased.

B & E, Inc.
Brine Sales Well St. 24 #1

1988' FSL - 1930' FEL

S.24 T.18S R.28E

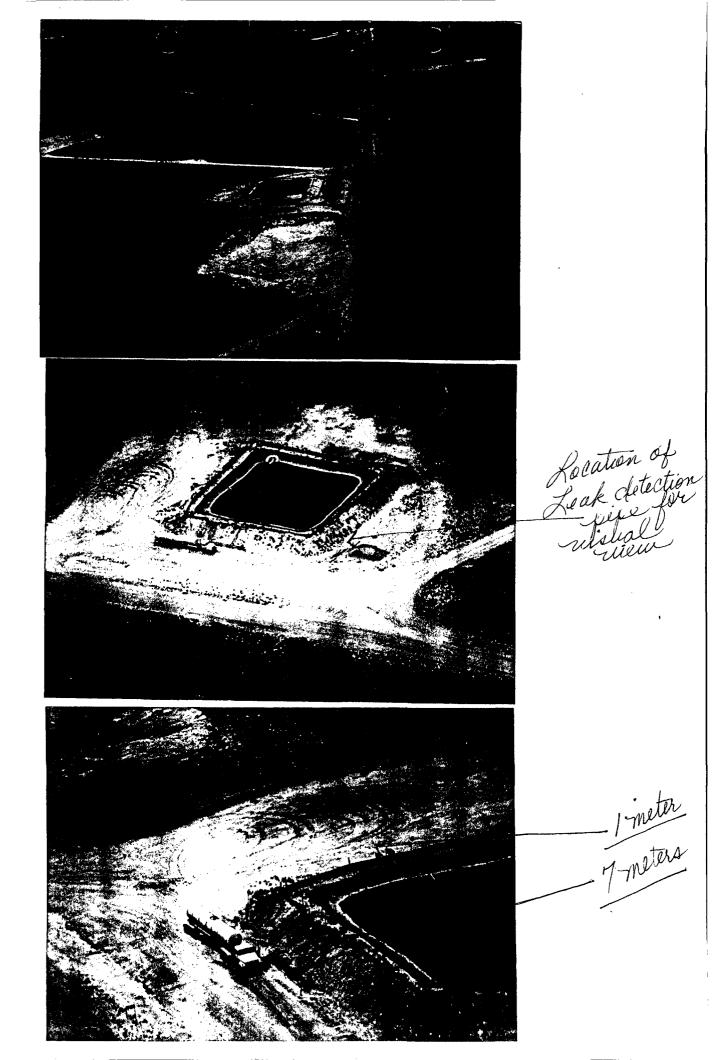
Eddy Co., New Mexico

POED 1770 4.M.

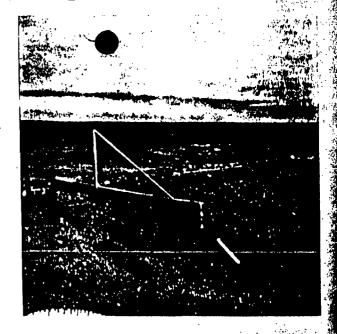
ATTACHMENT #1 ALPHICATION FOR PERMIT PROF STREET THE A LINED EVANORATION PIT

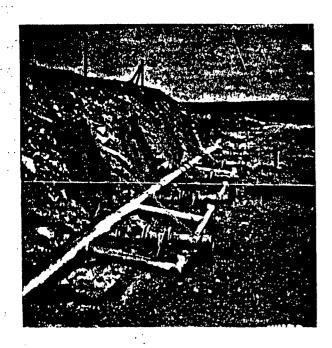


Name of Operator Permian Brine SAles & Service, Inc.
Address P. O. Box 1591, Odessa, Texas 79760
Name of lease upon which evap- oration pit will be located State "24"
NAME STOCKE Location of evaporation pit: Unit Letter J Section 24 Township 185 Range 285
Lease(s) which will be producing into pit. DNA
Pool(s) which will be producing into pit DNA
Analysis of disposal water: Chlorides DNA ppm. Total dissolved solids DNA ppm. (If more than one pool will be producing into pit, give water analysis for each pool.)
Quantity of water to be disposed of into this pit DNA barrels per day.
Water production from these same wells six months ago DNA bpd. Three months ago DNA bpd (If more than one pool will be producing into pit, give water production data for each)
Method of hydrocarbon entrapment to be employed: Settling tank DNA Header pit DNA
If settling tank is to be used, give size and number of barrels DNA
If header pit is to be used, give dimensions and depthDNA
Header pit lining material DNA Thickness DNA
Dimensions of Bring Storage ("A" and "B" on diagram). 118' x 110'
Number of square feet contained in above 13924
Depth (Top of levee to floor of pit"D" on diagram) 7.5 ft.
Material to be used as liner Reinforced Hypalon Thickness 30 Mil
Does manufacturer recommend protection of material from direct sunlight? Yes No X
If yes, what means will be provided to so protect the material?
•
Is material resistant to hydrocarbons? YesXNo
Is material resistant to acids and alkalis? Yes X No No
Is material resistant to salts? Yes X No No
Is material resistant to fungus? Yes X No No
Is material rot-resistant? Yes X No
Will joints in material be fabricated in the field? Yes X No
If yes, describe method to be used in joining material Chemical Joining
If yes, describe method to be used in joining material Chemical Joining
If yes, describe method to be used in joining material Chemical Joining Attach manufacturer's brochure describing the qualities of the lining material.
Attach manufacturer's brochure describing the qualities of the lining material.
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Attach manufacturer's brochure describing the qualities of the lining material.
Attach manufacturer's brochure describing the qualities of the lining material. Describe the leakage detection system to be used

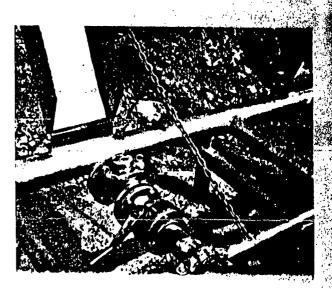












WER TO BEARD RECEIVED BY TOTAL CO. 10-1-16 FEB 012 1984 NSERVATION DIVISION HMENT NERGY AND MINITIALS I 00. 07 007107 00101100 (1111 mm v) 100 SEP 16 1983 SANTAFT SANTA FE, NEW MEXICO 87501 711.6 O. C. D. LAND OFFICE ARTESIA, OFFICE REQUEST FOR ALLOWABLE TRAMIFORTER AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS DPERATO PROMATURE OFFICE _Inc P.O. Box 2292, Hobbs New Mexico 88240 Reason(s) for liling (Check proper box) Other (Please explain) CIL Recompletion Dry Cos Change In Ownershi Condensale If change of ownership give name and address of previous owner ____ Permian Brine Sales, Box 1519, Odessa, Texas 79760 U. DESCRIPTION OF WELL AND LEASE ell No. Pool Name, Including Formation Leges State, Federal or Fee STATE State # 24 Wildcat M-1960 1987.9 Unit Letter 24 To . ashtp 185 Ronge 28E Line of Section NMPL Eddy Count II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Cit or Condensate Name of Authorized Transporter of Cusinghead Gas or Dry Gas Address (Give address to which approved copy of this form it to be sent) is gas octually connected? If well produces oil or liquids, give location of tanks. If this production is commingled with that from any other lease or pool, give commingling order numbers COMPLETION DATA Some Resty, Dill. he Oil Well MOLF DAGE Plug Back Designate Type of Completion - (X) Date Spudded Total Depth P.B.T D Elevations (DF, RKB, RT, GR, etc., *lame of Producing Formation Top Oll/Gas Pay Tubing Depth Perforations Depth Casing Shoe TUBING, CASING, AND CEMENTING RECORD HOLE SIZE CASING & TUBING SIZE DEPTH SET SACKS CEMENT (Test must be after recovery of total volume of load oll and must be equal to or exceed top a able for this depth or be for full 24 hours) V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL Date First New Oil Hun To Tanks Date of Test Producing Method (Flow, pump, gas lift, etc.) Length of Test Tubing Piesewe Cosing Pressure Actual Prod. During Test Gos - MCF OII-Bhia. Woter - Bbls. GAS WELL Actual Prod. Test-MCF/D Longth of Tool Bble. Condensate/MMCF Gravity of Condensate Tubing Freeswe (Shot-in) Teeling Method (pitot, back pr.) Cooling Pressure (Shut-18) Choke Size DIL CONSERVATION DIVISION VI. CERTIFICATE OF COMPLIANCE FEB 0 7 1984 I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. TITLE ... OIL AND SAS INSPECTOR This form is to be filled in compliance with nutr time

Q

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Fift out only Sections I. II, III, and VI for changes of owwell name or number, or transporter or other such change of condit Separate Forms C-104 must be filed for each pool in mult completed wells.

If this is a requestior allowable for a newly drilled or deeper well, this form must be secompanied by a tabulation of the devictance taken on the well in accordance with RULE 111. All sections of this form must be filled out completely for all able on new and recompleted wells.

TO SPECIAL COMMENT

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks
Winch Truck
Kill Truck
Frac Tanks

VII.

Attached please find schematics and drawings of all underground facilities and also a breakdown of the various underground formations from surface to salt beds.

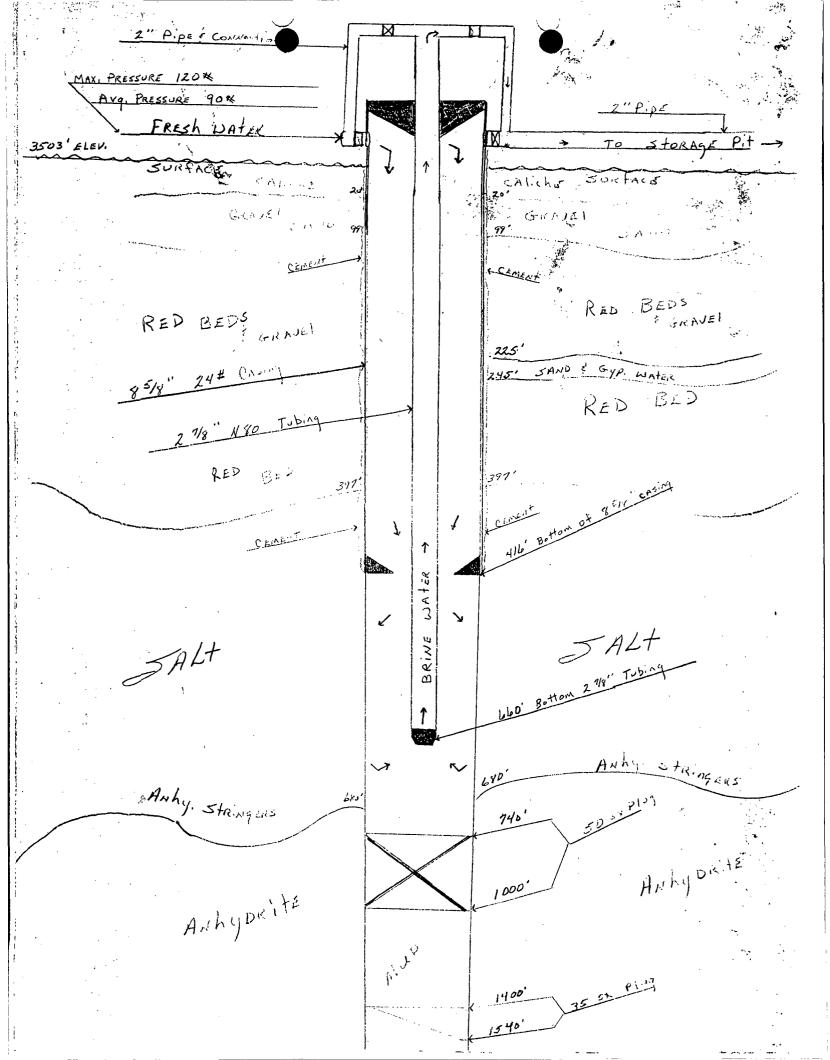
Every January of the new year we submit water analysis of the fresh injected and brine extracted. (Please refer to your files).

Each quarter we have submitted quarterly reports on volume of fresh injected and volume of brine sold. (Please refer to your files).

P.B.S.& S. BUX 1591 UDESUA, TEXAS 79760

SALT & 1

0 to 46	TOP SOIL WITH GRAVEL
46 to 58	SAND & GRAVEL
-58° to-62	LIME
62 to 65	RED BED
65 to 76	RED SAND
76 to 107	GRAVEL
107 to 163	BROWN CLAY W/GRAVEL & SAND
•	RED BED
170 to 178	LIME VERY HARD
178 to 225	RED BED
225 to 237	ANHYDRITE & RED BED
237 to 252	LIME & ANHYDRITE W/SOME GYP.
252 to 268	RED BED
763 to 285	LIME W/GYP. STRINGERS
395 to 305	GYP. W/SOME RED BED
195 to 320	GYP. & ANHYDRITE
5. 1. 1.5 320	RED BED
301. to 360	ANHYDRITE W/LIME & SAND
36% to 410	RED ROCK & ANHYDRITE
10 to 430	ANHYDRITE W/SOME LIME
130 10 437	GRAY LINE (HARD) & ANHYDRITE
.37 to MIS	
2445 to 456	ANHYDRITE & GRAY LIME
456 to 555	
ess to 567	SALT & HOME LIME
	SALT & BLUE SHALE VERY LITTLE
	. SA LT
, 1.1.3	



State 24 DHI Dry hole marker 6' With well Designation of Legal Description Plate 14" Steel After Plugged, And Aboutoned B. Ham of 8 5/8" Casing Bottom of Coment H66

B'& E' ING.

DISTRIBUTION ANTA FE NEW MEXICO OIL CONSERVATION COMMISSION: E Supersedes Old C-102 and C-103 Effective 14-65 Effective 14-65 Substance of C-103 and C-103 Effective 14-65 The C-103 and C-103 Effective 14-65 Substance of C-103 and	NO. OF COPIES RECEIVED	`	Form C-103
NEW MEXICO OIL CONSERVATION COMMESSON, E. D. St. Mattern Type of Lease St. M. S.C. S.			Supersedes Old
DEC 2 8 1073 South December 1989 of Lease South Free Transport Control of Market 1989 of Lease South Free Transport Control of Market 1989 of Lease South Free Transport Control of Market 1989 of Marke		NEW MEYICO OU CONSERVATION COMMISSION	C-102 and C-103
DEC 2 8 2008 Support		HEM WEXICO OIL CONSERVATION COMMISSION E	Filective 1-1-92
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SUNDRY NOTICES AND REPORTS ON WELL CONTINUES. SUNDRY NOTICES AND REPORTS ON WELL CONTINUES. SURPRISED AND REPORTS OF THE PROPERTY OF THE PROPE		a.c.r	M-19609
Decrete Person actions and the state of the	CUNDOV	NRTESUA CO	
PERMITAN BRINE SAISS 5 SERVICE, INC. STATES WELLE	IDO NOT USE THIS FORM FOR PROPO	SALS TO BRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.	
One of Cyredian PRINE SAINS & SERVICE, INC. PERMIAN BRINE SAINS & SERVICE, INC. P. O. Ext 1591, Odessa, Texas 78760 1. Continue of Keel PERMIAN BRINE SAINS & SERVICE, INC. P. O. Ext 1591, Odessa, Texas 78760 1. Continue of Keel PERMIAN BRINE SAINS & SERVICE, INC. P. O. Ext 1591, Odessa, Texas 78760 1. Continue of Keel Permian of Keel Permian of Keel Inc. Section 24	USE TAPPLICATION	FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)	-//////////////////////////////////////
STATE STATE NATURAL SALES & SERVICE, INC. Address of Cynotics P. O. Box 1591, Odessa, Texas 79760 Lections of Value 1987.9 recrew tex South 1987.9 recrew tex South 1987.9 recrew tex south 1987.1 recrew texas 1930.4 recr		·	7. Unit Adreement Hame
PERMIAN SRINE SALES & SERVICE, INC. P. O. Box 1591, Odessa, Texas 78760 Check Appropriate Box To Indicate Nature of Notice, Report of Other Data Notice of Intention To. P. Concertain Autoliae work		OTHER BRINE WATER WELL	
P. O. Box 1591, Odessa, Texas 79760 P. O. Box 1591, Odessa, Texas 79760 1	. Name of Operator		B. Farm or Lease Name
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State# 24 ecial tests or deviation surveys were made, submit regard on seria et and attach hereto

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Estimated Present Annual Sales
Estimated Net Profit per Barrel
Estimated Annual Earnings
(Net before depletion allowance, taxes and depreciation.)

This station is ideally located in the extreme Northwest edge of the rock salt strata, therefore, all brine for wells drilled to the north and west will have to come from this station. This area is primarily a gas well area, so that future drilling will increase when natural gas again becomes in short supply. These factors enhance the value of this station.

I would place the value of this station at \$385,000 based on earnings.

RESERVES

The reserves of salt are inexhaustible for all practical purposes. The rock salt is 244 feet thick and is covered by 285 feet of rock and clay. I have a brine well of similar rock salt thickness from which I have washed over 10,000,000 barrels of brine and we are still producing brine. In my experience, the older and larger a brine cavern becomes, the less trouble we have with "cave-ins". I attribute this to the fact that the rock salt strata does not lie in a flat plane. The layers of salt and interbedded stringers of anhydrite and shale lie at a slight angle, thus, as fresh water is lighter than brine, it moves up gradient along these stringers, thus dissolving the cavern off to one side of the producing string of tubing. Therefore, when sloughing occurs within the cavern, it takes place away from the center of the cavern and does not damage the tubing. If thouble does occur, an expenditure of \$19,000 for drilling an offset "slim hole" and fracturing into the present cavern would tremendously increase reserves. A 244' deep 300' diameter cylindrical block of rock salt contains 2,414,633,760 pounds of salt (enough to make 21,753,457 barrels of brine). By enlarging the diameter to only 310', you could produce an additional 7,157,058 barrels of brine. You can see that after the cavern becomes quite large, that the diameter increases very slowly!

S.E. ARTESIA STATE "24" STATION ESTIMATED REPLACEMENT VALUE

Salt Minerals (leased)
Surveying
Dirt Work, Drilling Pits and Anchors
Paving Turnaround
Permitting
Sub-Total

BRINE WELL

Drilling
Casing - 416' of 8-5/8" @ \$7/ft.
Cementing
Cement Bond Log
Tubing - 660' of 2-7/8" @ \$1.75/ft.
Well Head and Valves
Mud and Bits
Sub-Total

STORAGE, PUMPING AND LOADING

Dirt Work for brine pit
Pit Liner
Pipeline for water - 9,960' of 2½"
Ditching, Laying and Backfilling
High Pressure 2" water meter and valves
R.O.W. and Damages
Loading Header and Valves
Meters, Locks and Covers
Trucking
Contract Labor
Fence and Windbreak
Sub-Total

TOTAL

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks
Winch Truck
Kill Truck
Frac Tanks

VIII.

The meter loading area and the leak detection pipe extending from the pit is visually inspected everyday. Our customers alert us as to any meter leaks.

There has never been a leak from the pit since operations begain in 1978.

We have occasionally had small leakage from valves at the loading area from faulty valves. We repair or replace the valves when needed. (These amounts have been very small when occured.)

We periodically take our grader to the location and grade the area. We strive to keep our housekeeping in order.

If there was a major leak we would immediately take steps to haul production of brine, repair the leak and replace whatever was needed.

The area around the pit where the meters are located is hard packed graded caliche.

In the event of a spill or leakage the OCD will be notified within the required 24 hours.

On June 20, 1991, I personally inspected the area. The 30 mil polyethylene (hypalon) nylon reinforced line was still very pliable. It was in no way brittle or cracked. For being in place for 12 years it has held up astonishingly well.

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks Winch Truck Kill Truck Frac Tanks

IX.

The general soil conditions in the area are sand and caliche. The Pit-sides are caliche and chipped rock.

Attached please find two (2) maps that are in our possession.

Also, attached please find a copy of a letter from James I. Wright from the State Engineer office in Roswell dated 1-16-85 stating that there are no water wells within 3 miles of our location.



THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

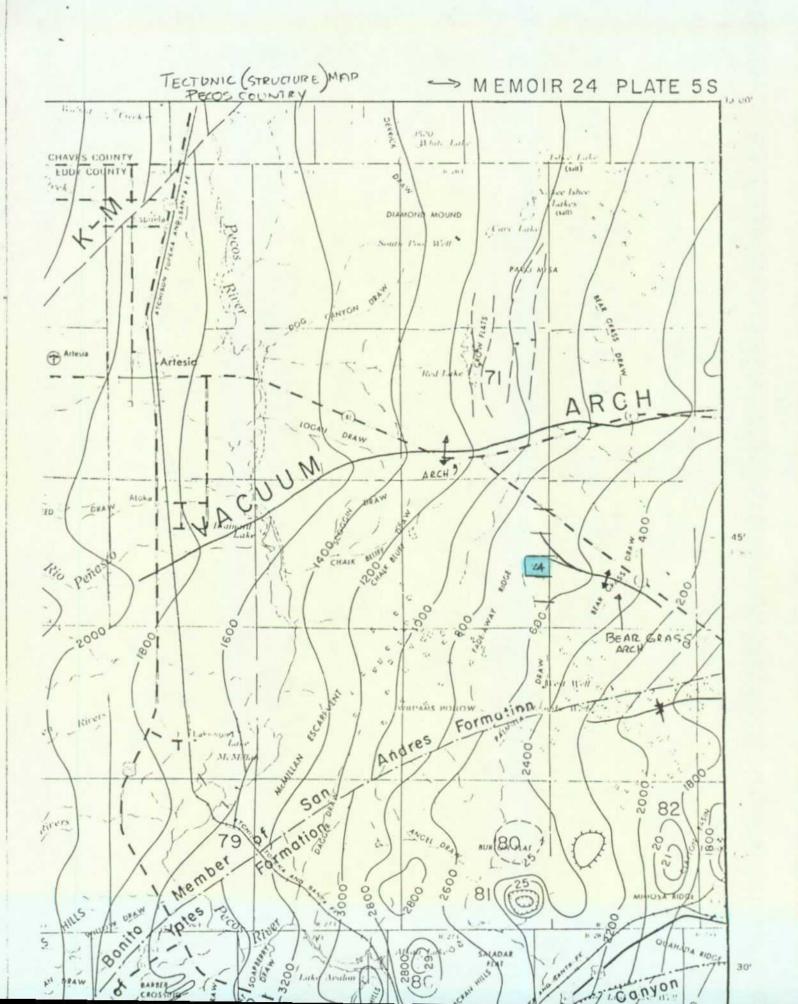
CANNOT BE IMPROVED

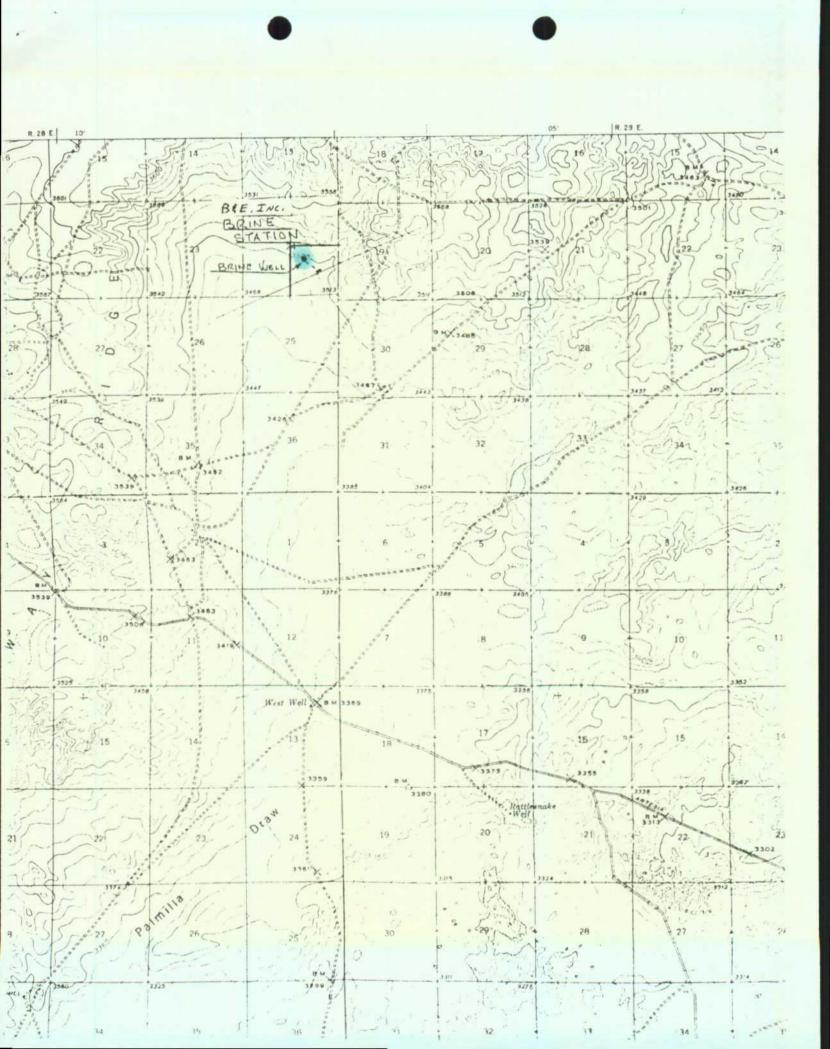
DUE TO

THE CONDITION OF

THE ORIGINAL

4







STATE OF NEW MEXICO

STATE ENGINEER OFFICE ROSWELL

S.E. REYNOLDS STATE ENGINEER October 16, 1985

DISTRICT 2 909 EAST 2ND ST. P.O. BOX 1717 ROSWELL, NEW MEXICO 88201

B and E Inc. Box 2292 Hobbs, New Mexico 88240

Gentlemen:

In accordance with your request regarding fresh water zones in the vicinity of your brine station located in the SE% of Section 24, Township 18 South, Range 28 East, please be advised that there are no water wells within three miles of your location.

The closest well is located in the NE¼NW¼NE¼ of Section 21, Township 18 South, Range 28 East. This well is completed in the Artesia Group. A water sample collected from this well on April 10, 1969 had a chloride concentration of 134 parts per million.

Xours truly,

James I. Wright Field Engineer

JIW/tmg cc Santa Fe Equipment & Supplies Fresh Water Brine Supply Wells Salt Water Disposal

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks Winch Truck Kill Truck Frac Tanks

<u>X</u>.

Attached please find a copy of the OCD Permit No. A-017 for exception to Division Order R-8952 signed by Mike Williams and dated 9-11-89.

State of New Mexico ergy, Minerals and Natural Resources Depar

Form C-134 Aug. 1, 1989

DISTRICT P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

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

OIL CONSERVATION DIVISION RECEIVEDP.O. Box 2088

Santa Fe, New Mexico 87504-2088

SEP -6 '89

Permit No. A-017 (For Division Use Only)

O. C.

APPLICATION FUR EXCEPTION TO DIVISION ORDER R-8952

FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(I)
Operator Name: B & L, Inc.
Operator Address: P.O. Box 756 Carlsbad, NM 88220
Lease or Facility Name Loco Hills Brine Station-State 24 #1 Location 24 18S 28E
Size of pit or tank: 70' x 70' capacity 10,000 bb1s Ut. Ltr. Sec. Twp. Rge
Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.
p i t The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.
The pit contains nothing but brine water and is not hazardous to
wildlife.
 If any oil or hydrocarbons should reach this facility give method and time required for removal:
This pit should always be free of hydrocarbons.
 If any oil or hydrocarbons reach the above-described facility the operator is required to notify the appropriate District Office of the OCD with 24 hours.
Operator proposes the following alternate protective measures:
Our company people check on this brine open everyday to check on
water level and pumping operations.
CERTIFICATION BY OPERATOR: I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
Signature) Sie Communication Owner/Manager Date 9-1-89
Printed Name Phil Withrow Telephone No. 505-8856663
FOR OIL CONSERVATION DIVISION USE
Date Facility Inspected 9/8/89 Approved by mile Welling
Inspected by MW Title SUPERVISOR, DISTRICT II
DateSEP 1 1 1989





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT





GOVERNOR

May 30, 1991

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

CERTIFIED MAIL RETURN RECEIPT NO. P-327-278-142

Mr. Phil Withrow, Owner B&E, Incorporated P. O. Box 756 Carlsbad, New Mexico 88220

RE:

Discharge Plan BW-5 (formerly DP-322)

B&E Inc., Loco Hills Brine Station

Dear Mr. Withrow:

On December 19, 1986, the ground water discharge plan, BW-5 for the B&E, Inc., Loco Hills Brine Station located in Section 24, Township 18 South, Range 28 East, NMPM, Eddy 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 will expire on December 19, 1991. Authority to administer the brine program was transferred from the EID back to the Qil Conservation Division (OCD) in 1989. Please note the new discharge plan number (BW \$15), formerly DP-322, which will be the permanent designation used in all future correspondencè.

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. Under WQCC Rule 5-101.G., if the holder of an approved discharge plan submits an application for renewal at least 180 days before discharge plan expiration, then the existing approved discharge plan will not expire until the application for renewal has been approved or disapproved. If the OCD receives a discharge plan renewal application for the B&E Inc., Loco Hills Brine Station by June 22, 1991, then the existing approved discharge plan will not expire until the renewal application has been approved or disapproved. Note that the request for renewal of a discharge plan need only consist of submittal of the attached "Discharge Plan Application for Brine Extraction Facilities". I have also enclosed a copy of the OCD's "Guidelines for the Preparation of Ground Water Discharge Plans at Brine Extraction Facilities," revised May 1991, and a copy of the Water Quality Control Commission Regulations.

Mr. Phil Withrow May 30, 1991 Page -2-

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 me at (505) 827-5824.

Sincerely,

Kathy M. Brown

Environmental Bureau Geologist

KMB/sl

Enclosures

cc: OCD Artesia Office

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

December 6, 1989

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Phil Withrow
B&E INC.-LOCO HILLS BRINE
P. O. Box 2292
Hobbs, New Mexico 88240

RE: Delegation of Responsibilities Brine Manufacturing Operations

Dear Mr. Withrow:

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

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

Mr. Phil Withrow December 6, 1989 Page -2-

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

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

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

Sincerely,

Roger C. Anderson

Environmental Engineer

RCA/sl

Enclosures

CC: Artesia District Office
Hobbs District Office

State of New Mexico rgy, Minerals and Natural Resources Departn

Form C-134 Aug. 1, 1989

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

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

OIRECENSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088 **SEP -6 '89**

Permit No. A-617
(For Division Use Only)

/ы ... ж. Од

O. C. D. ARTESIA, OFFICE

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952

FOR PROT	TECTION OF MIGRATORY BIRDS Rule	8(b), Rule 105(b), Rule	e 312(h), Rule 313, or Rule711(I)
Operator Name:_	В & Ł, Inc.		
Operator Addres	ss: P.O. Box 756 Carlsbad,	NM 88220	
Lease or Facility Size of pit or tank	70' v 70' capacity 10 000 bb1		24 18S 28E Ut. Ltr. Sec. Twp. Rge
•	sts exception from the requirement to screen, ne	et or cover the pit or tank	at the above-described facility.
, ,	of too tank is not hazardous to migratory waterfowl.	·	
•	The pit contains nothing but brine	•	
	wildlife.		
•	any oil or hydrocarbons should reach this facili This pit should always be free of h	•	equired for removal:
ar Operato	any oil or hydrocarbons reach the above-descr ppropriate District Office of the OCD with 24 ho or proposes the following alternate protective m	urs. easures:	· · · · · · · · · · · · · · · · · · ·
	Our company people check on this br	rine open everyday	to check on
<u>W</u>	water level and pumping operations.		
knowledge and t	1	ormation given above is to Owner/Manager	0.1.00
Signature /	Phil Withrow Title		Oate
Printed Name	THE WICHTOW	Telephone No	505-8856663
FOR OIL CONS	SERVATION DIVISION USE		
Date Facility Ins	-1 1	Approved by/	nise Welliams
Inspected by		, ,	PERVISOR, DISTRICT II
-	CISUVED	_	

SEP 1 3 1989

Equipment & Supplies Fresh Water Brine Supply Wells Salt Water Disposal

B & E, INC.

South Y P. O. Box 756 Carlsbad, N.M. 88220 Phone (505) 885-6663 Vacuum Trucks Winch Truck Kill Truck Frac Tanks

March 27, 1989

R ECET V E D

GROUND WATER BUREAU

Ground Water Section
E.I.D.
Health and Enviornment Dept.
P.O. Box 968
Santa Fe, New Mexico 87504-0968

ATT: Kevin Lambert

RE: Water Analysis: Loco Hills Brine & Double Eagle Fresh

Eugenie Brine & Eugenie Fresh

Attached please find the laboratory reports on the above referenced locations.

They were just recently sampled and analyzed in March.

Sorry for the delay but John Parker called last week and asked about the January report. I did not realize that this needed to be done. I've been very faithful about the quarterly reports on discharge volumes and leak detection system and just over looked this.

Again, I do apologize and thanks again for everything.

If you have any further questions, please don't hesitate to call.

Sincerely,

Valerie Lemon

Secretary

B & E, Inc.

Attachments

xc: file

HELIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No.

то <u>в & Е</u>			Date_	3-10-89
			thereof, nor a copy thereof, is to be p the express written approval of let	lurion Services and neither 4 ner any peri lubbahed or disclosed without first securing lorstory management, 4 may however, be as operations by any person or concern and report from Helliburion Services
Submitted by			Date Rec	*
Well No		Depth	Forma	tion
Field	and the second s	County	Source	È
	Eugene #1			St 24 #1
Resistivity	0.048 • 70°F	**************************************		0.050 @ 70°F
Specific Gravity	1.217	····		1.2100 @ 70°F
pH	6.7			6.9
Calcium	3548			4300
Magnesium	326	•		261
Chlorides	204000			194000
Sulfates	heavy			heavy
Bicarbonates	92			61
Soluble Iron	nil			nil
				# #
	10.15#			10.08 #

Remarks:

277

7

Respectfully submitted

Analyst: Fre D Jacobson FIT

HALLIBURTON SERVICES

NOTICE:

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Haliburton division Laboratory

HALLIBURTON SERVICES

ARTESIA DISTRICT

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			thereof, nor a copy thereof: the express written appro- used in the course of regula	of Halliburton Services and neither 4 nor any part is to be published or disclosed without first securing rat of laboratory management; it may however, be in business operations by any person or concern and ing such report from Halliburton Services
Submitted by \mathcal{E}	ddy Menzdor	<u></u>	Date Rec	3-23-89
	$\mathbf{\circ}$	Depth	Fo	ormation
Field		County	Eddu so	ource
	_			Eugenie Tresh.
Resistivity			N.a.	
Specific Gravity	/. 00		1.00	
рН	<u> </u>		7	
Calcium	. 54		54 .	
Magnesium	20		27	
Chlorides			400	
Sulfates	trace		trace	
Bicarbonates			32	
Soluble Iron	nil		nil	
	-			
	****************	•		
		•		
Remarks:				
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Q,	Champers.	ully subm	itted	-
Analyst: nocky	Champers.			HALLIBURTON SERVICES

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Hamiburton division Laboratory

HALLIBURTON SERVICES ARTESIA DISTRICT

LABORATORY REPORT

No.

10 B & €			1	Date	3-10-89
			thereof, nor a copy there the express written app used in the course of reg	of: 46 to be pur roval of 1960 viar business	non Services and neither 4 nor any gest bished or declosed without first securing rationy menagement, 4 may however, the operations by any person or concern and port from Halliburton Services
Submitted by			Date Rec.		·
Well No		Depth		Porma t	ion
Field		County		Source	
-	Eugene #1			-	St 24 #1
Resistivity	0.048 • 70°F				0.050 @ 70°F
Specific Gravity	1.217				1.2100 @ 70°F
рн	6.7				6.9
Calcium	3548				4300
Magnesium		-			261
Chlorides	204000				194000
Sulfates	heavy				heavy
Bicarbonates	92				61
Soluble Iron	nil			-	ni1
	10.15#				10.08 #

Remarks:

Respectfully submitted

Analyst: Fou D Jacobson FIT

HALLIBURTON SERVICES

NOTICE:

This report is for information only and the content is limited to the sample described. Halliburton makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Halliburton, resulting from the use hereof

HALIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

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		thereof, nor a copy thereof, the express written appro- used in the course of regula	of Hallburton Services and neither 4 nor any part is to be published or disclosed without first securing rat of laboratory management; it may however, be to business operations by any person or concern and ing such report from Hallburton Services
Submitted by \mathcal{E}	ddy Menzdorf	Date Rec	3-23-89
Well No	De	epthFo	ormation
Field		ounty Eddy S	ource
	Double Eagle Fresh		
Resistivity		n.a	
Specific Gravity		1.00	
pH	7 .	7	
Calcium		<u> </u>	
Magnesium	_	27	
Chlorides		<400	
Sulfates	/	trace	
Bicarbonates		32	
Soluble Iron	,	nil	
Remarks:			
	Hockes	Champen	
0.	Respectful Chambers.	lly submitted	-
Analyst: nocky	Chambers.		HALLIBURTON SERVICES

NOTICE:

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Telephone	☐ Personel	Time 9.45	AM	Date 3/16/89
C	riginating Party		,	Other Parties
John 7	Parker		·Val	Lemon
1118	·		BEE	Secretary
Subject				· · · · · · · · · · · · · · · · · · ·
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ENVIRONMENTAL IMPROVEMENT DIVISION Harold Runnels Bldg.-1190 St. Francis Drive Santa Fe, New Mexico 87503

Richard Mitzelfelt
Director

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

December 14, 1988

Phil Withrow
B&E, Inc. - Loco Hills Brine Station
P.O. Box 756
Carlsbad, New Mexico 88220

Dear Mr. Withrow:

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

Deficiencies noted during the inspection are as follows:

- 1. Spillage of brine and produced waters noted. Facility should be free of brine or produced water spillage, facility should be inspected frequently, and spillage cleaned up when detected.
- 2. Valves at loading area have some leakage. Leaks in valves should be repaired.

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

Sincerely,

Kevin Lambert

Hydrologist

Ground Water Section - UIC Program

evin A Lambert

KL/mw

Enclosure

No. of	
Samples, Ion	
Na	FIELD TRIP REPORT
K	GROUND WATER SECTION
Ca	1
/ Mg	SLD USER CODES County Eddy/Lea
7 C1	Ground Water: 59300
HCO3	•
	NO ₃ , HC. & Toxics: 59600 UIC: 59500
C03	
504	FACILITY VISITED
TDS	Name of Facility: 20 Brune Facilities of Climax Chemical Location: Hobbs in Southeast NM
	Location: /// / / / / / / / / / / / / / / / / /
NO3+ NO2	Carlsbad/Hobbs W Southeast WIII
NH3	Discharge Plan Number: DP- See Below Type of Operation: Brine Production / Chemical Manufacturing
kjeld N	Type of Operation: p 0 0 4 /CD Manufacture
11/1/1/////////////////////////////////	Dune Production / Chemical Themas
As	ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT
Ba	
Cd	Date of Inspection or Visit: 12/5-8/88
CN	Discharger's Representative Présent During EID Visit:
Cr	
	Name:
F	Title or Position:
Pb	Purpose of Visit:
: Hg	Evaluation of Proposed Discharge Plan
. Se	(b.) Compliance Inspection of Discharge with Approved Plan
Ag	c. Other (specify)
U	Inspection Activities During Field Visit:
V	a. Inspection of Facilities or Construction (specify)
Ra 226	
Ra 228	•
<u> </u>	
Cu	b. Sampling of Effluents (give sampling locations)
Fe	
: Mn	
Phenols	
Zn	c. Sampling of Ground Water (give names or locations of wells)
111111111111111111111111111111111111111	c. Sampling of Ground Water (give names or locations of wells) Sampled M.W. at Marathon
Al	Sant from 1
В	
Ср	d. Evaluation of geology, soils, water levels or other physical
Мо	characteristics of the location (specify)
Ni	
111111111111111111111111111111111111111	
pH	
Conduct.	e, Other (specify)
	1
	•
	Observations and Information Obtained during the Visit:
: -	The same of the sa
	The 20 Brind Facilities & Climax are listed
	The 20 Brine Facilities & Climax are listed below by DP#. See Individual File
<u> </u>	below by DP# See Individual File
	for specifics
	got sperifico
-	ACTION REQUIRED ####################################
The same of the sa	
	# # 370 298
	# # 333 354 370 298 318 324 355 371 426
Maria.	318 324 355 377
	S19 325 3/4 3/5
	7 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1
	371 361 401
	322 33/ 369

BRINE STATION INSPECTION FORM

1015
DATE 12/6 1988 EID INSPECTOR Lambert
FACILITY REE LOCO HIJS LOCATION LOCO HIJE
FACILITY REP ON SITE COUNTY
·
WELL OPERATION
WELL IS INJECTING: THROUGH ANNULUS THROUGH TUBING
SOURCE OF FRESH WATER Double Exple Pipeline
TRACE INJECTION/PRODUCTION LINES /// Care ROUNC
Will delegate to
WELL HEAD PRESSURE PSIG PUMP PRESSURE PSIG
LEAKS AROUND WELL OR PUMP — Nowe
Wellhead looks good
STORAGE AREA
FOR PONDS:
GENERAL LINER APPEARANCE brine Storage hypalon lined
AMOUNT OF FREEBOARD / foot Looks Grand
ANY SIGN OF OVERFLOW OR LEAKS None
LEAK DETECTION SYSTEM FLUIDS DRY
FOR TANKS:
GENERAL APPEARANCE
LABLED PLAINLY YES NO
BERMED TO PREVENT RUNOFF YES NO
CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH
NUMBER OF TANKS FOR BRINE FRESH WATER
LOADING AREA
PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE YES NO
ANY EVIDENCE OF RECENT SPILLAGE YES NO
DOES FACILITY HAVE A SPILL COLLECTION SYSTEM YES NO
ANY EVIDENCE OF OIL SPILLING/DUMPING YES NO
MINOR spillage directed to collection system
MONITORING WELLS MINOR PROduced water on loading ARCA
Regrade check valves for leaks
DEPTHFT STATIC WATER LEVELFT BELOW CASING
SAMPLED THIS VISIT YES NO TEMP Ec
COMMENTS Over All looks good Recommend
REGRATING OF WOADING AREA to Cleanup
milyon bride spills. Clean collection system
of brine Check valves for leaks

Larlsbad City Water Analysis

CITY OF CARLSBAD - WATER ANALYSIS REPORT CARLSBAD CITY LABORATORY WASTEWATER TREATMENT PLANT Carlsbad, New Mexico 88220

SAMPLE SENT BY	City of Carlsba	ad ^	NALYSIS NO.	
FROM Wate	r Well Field	S	AMPLE RECEIVED	1/28/88
ADDRESS			SAMPLE REPORTED	1/29/88
WATER SOURCE	Composite	andre disspectuation area do they are depict for the second	•	and the second s
	PHYSICAL CHARACTE		CCEIVED	
Color	Odor		Turbidity	2
- International Control	法 是"以及不可用	MRACTERISTICS	3	
GROUND WA	TER/HAZARDOUS WASTE BUREAU	PARTS per MILLION	PPM as CaCo3	As CaCo ₃ GRAINS per Gallon
Alkalinity-M:			220	
Alkalinity-P:			0	
Calcium-Ca:		72	180	10.5
Magnesium-MG:		39	156	9.1
Sodium-Na:				
Sulphates-So4: .		78		
Chlorides-Cl:		28		
Sp. Cond.:		430		
Iron-Fe:				
Free Chlorine: .				
Fluoride:		0.47		
PH: As received:		7.77		
Aquapoise (PHs) a	t 70°F:			
TOTAL HARDNESS:	(As CaCo ₃):		336	19.6
TOTAL DISSOLVED S	OILDS (As CaCo3):			

Jose A. Renteria

,一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		PRIVATE PRIVATE Non-community Over 1 Spring Lake Liwell-Depth Provided Non-community	COLECE	TIGK COTHOLOGY TO TOT COTISSED CONTROLLY OF COTISSED CONTROLLY CON	12-15-86 - 1010 a.m. 101 Worth Halagueno Martic Arte Majanan Don Petterson	Collector/s/remarks	CTT CAUSE THE WATER TO BAW WATER	2 Complete Secondary	CKEMICAL Check individual items for analysis INTERIM PRIMARY PARAMETER GROUP TYPE of CHEMICAL ANALYSIS	FOR PROPER PRESERVATION OF SAMPLES CONSULT DEFINITIONS ON REVERSE. TYPE OR PRINT WITH BALL POINT PEN	for WATER SAMPLES	CHEMICAL and PHYSICAL ANALYSES	
Confidence of the second of th	このでは、大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大	CAT.		TO TOO TO A TO A TO A TO A TO A TO A TO	Ererson	A CONTRACT OF THE PROPERTY OF	REALED WATER	ic F. Radiological			SLD user code No.		

Date reported will of a cine survey									
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Control of the Contro			IDANG .				· · · · · · · · · · · · · · · · · · ·	できる。	
100 TO 10		€0,001	4 1 -01075 X			1 mark		_	
	Kaojum:228		Asha Negara			-	(as SO ₄)		(as Mn)
PCI/I		₹0.005	Х 01145		00070		00945 Sulfate		01056 Manganese
	Xagum-226		Mercury			\$20 Spre 253		195	(as Fe)
13 0CI/194 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5000 a>	X 07180	.) mg/l	00080		00445 Carbonate		01045 fron-Total
1. (2) (0.0) (2) (1.0) (Gross Beta		Lead		Cagr			en de la companya de	s Mg)
O PCI// 39730	03501	<0.01	X 01049		01330	probbinity.	00440 co	ndir assiftage a	00925 Magnesium
Toxaphene	evidity solid		Caroma				(as Caco ₃)	100	(as Ca)
	RADIOLOGICAL pci/i	50.05	၁၉၀၂၀ ၂ 🗴	4	00400		00430 Alkalinity		00915 Calcium
Methoxychlor		がある。	Caomiu		Micromhos 25°C			が、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は	(as CaCO ₃)
38270		<0.001	у 01025		00095		00620		00900 Tot.Hardnes
Indane					.Agents (as Las)		(asF)		(as K)
39732		 	.X 01002	The state of the s	38260		00950		00935 Potassium
(A. M. A.			Arsenic		Filterable Residue		(as CI)		(as Na)
39390		<0.005	000 TO	mg/l	70300	STATE OF STATE	# E		00930 Sodlum
ORGANIC	PARAMETER	製造な	METALS		PHYSICAL	mg/l	ANIONS	mg/i	CATIONS -
	これ こうごかん かんかん	The second secon					A CONTRACTOR OF THE PARTY OF TH	The state of the s	

SMALYSES: CHEMICAL

Check individual items for analysis [Mark appropriate box (es]]

X

SCIENTIFIC LABORATORY DIVISION State of New Mexico
HEALTH and ENVIRONMENT DEPARTMENT

CHEMICAL and PHYSICAL ANALYSES for WATER SAMPLES

Sample #8

CONSULT SLD Lab Annex L for proper presentation of sample(s). TYPE or PRINT with Ball Point Pen INTERIM PRIMARY PARAMETER GROUP TYPE of CHEMICAL ANALYSIS Complete Secondary Date received Organic SLD user code No. Radiological

12	Jun Kall	Date reports		1							
•	3 1	Reviewed b								***************************************	
										REMARKS:	LABORATORY R
				•				-			
-	· :			<0.00	01075						
			:	•		•		•	(as SO ₄)	•	(as Mn)
		PC1/1	11501 Radium-228	<0.005	O1145 Selenium		00070		00945 Sulfate		01056 Manganese
•	(Silvex)			-		•		-	(as CO ₃)	•	(as Fe)
	39740 2 4 5.TP	pCi/i	09501 Radium-226	<0,0005	X 07180	mg/1	00080		00445 Carbonate		01045 Iron-Total
•				-				•	(as HCO3)	•	(as Mg)
	39730 2. 4-D	pCI//	03501 Gross Beta	0,0	X 01049		01330 Odor		00440		00925 Magnesium
•		ňa	Gross Alpha	-		•			(as CaCO ₃)	•	(as Ca)
	39400 Toxaphana	RADIOLOGICAL PCI/I	RADIOLO 01501	₹0.005	X 01030 Chromium		00400 BH		00430 Alkalinity		00915 Calcium
•	Methoxychlor			ļ			Micromhos 25°C	•	(as N)		(as CaCO ₃)
	38270			13,8	X 01025 Cadmium		00095 Conductance		00620 Nitrate		Tot.Hardness
•	r can			•		•	Agents (as Las)		(as F)	•	(as K)
	39732			0,	X 01005		38260 Foaming		00950 Fluoride		Potassium
•	-			•) je		Filterable Residue	-	(as CI)	•	(as Na)
	39390			0.005	x 01000	1/em	70300		00940		00930
mg/l	ORGANIC		PARAMETER	mg/1	HEAVY METALS		PHYSICAL	mg/l	ANIONS	mg/l	SNOITE
	FONG		Otner (specify)	LPool	in Ustream	C Oran	Es Non-Community	EL NOI	Community	י ספרוכ.	
	LAT.	, , , , ,	Well-Depth			SOURCE:		₹		ĝ	PRIVATE
New Mexico 88220	Carlsbad, New M	Carı					Carlsbad	City of Car	Cí	1	Max Cordova
	• •	Address P. O.	1						Q _v	- 1	Collected By
	atter	Don	,,,,,	Added	Nitrio Acid Add	2	Watering	2 Stock		9:30	10-7-85
S S S S S S S S S S S S S S S S S S S	LIREATED WATER	I٢	Eddy		Double Eagle	Collector		Collection Point		Collection Time	Collection Date
X BAW WATER	one:	Check one:	County) ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	•		

The second secon

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company: B & E. Inc. Date : 03-01-1988

Location: State 24 - Well #1 (on 02-29-1988)

Sample 1 Specific Gravity: 1.242 338820 Total Dissolved Solids: 7.29 :Ha 5.907 IONIC STRENGTH:

<u>CATIONS:</u> Calcium Magnesium Sodium	(Ca ⁺²) (Mg ⁺²) (Na ⁺¹)	<u>me/liter</u> 52.0 45.2 5680	<u>mg/liter</u> 1040 549 131000
Iron (total) Barium	(Fe ⁺²) (Ba ⁺²)	0.015 0.003	0.420 0.240
ANIONS: Bicarbonate Carbonate Hydroxide Sulfate Chloride	(HCO ₃ -1) (CO ₃ -2) (OH-1) (SO ₄ -2) (Cl-1)	2.80 0 0 134 5640	171 0 0 0 6450 200000

SCALING INDEX (positive value indicates scale)

Calcium Calcium

Temperature 86°F

30°C

Carbonate

Sulfate

2.8

-3.0

41988GROUND WATER/HAZARDOUS WASTE BUREAU

Brine Water Unalysis

No. of	
Samples, Ion	
Na Na	FIELD MAIN NOT
K	FIELD TRIP REPORT GROUND WATER SECTION
i Ca	GROOMD MAIEK SECTION
Mg	SLD USER CODES COUNTY F
C1	SLD USER CODES Ground Water: 59300 County Eddy
HCO3	NO ₃ , HC & Toxics: 59600
1 co3	UIC 59500
S04	FACILITY VISITED .
TDS	Name of Facility: B&E Loco Hills.
1111111111111	Location: Loco Hills, NM
NO3+ NO2	LOCO ALLES / N/VI
NH3	Discharge Plan Number: DP- 322
kjeld N	Type of Operation: BriNe Extraction Facility
MANIMAN	DRING EXTRACTION TACKER
As	ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT
Ba	EID Inspector(s): I am feet the Bun
Cd	Date of Inspection or Visit: 3/0/88
CN CN	Discharger's . Representative Present During EID Visit:
Cr F	Name: Phel Withow , Lody
Pb	Title or Position: Owner
Hg	Purpose of Visit:
Se	a. Evaluation of Proposed Discharge Plan
Ag	b. Compliance Inspection of Discharge with Approved Plan
l U	C.) Other (specify) MTT Presoure Test Inspection Activities During Field Visit:
V	a. Inspection of Facilities or Construction (specify)
Ra 226	a. Inspection of Facilities or Construction (specify)
} Ra 228	
111111111111111111111111111111111111111	•
Cu_	b. Sampling of Effluents (give sampling locations)
Fe	
Mn	
Phenols	
Zn	c.' Sampling of Ground Water (give names or locations of wells)
	The second of th
<u>A1</u>	
B .	
Co	d. Evaluation of geology, soils, water levels or other physical
Mo	characteristics of the location (specify)
Ni Ni	·
//////////////////////////////////////	
Conduct.	Observations and Information Obtained during the Visit
	(e., other (specity) (sonduction)
	- Hour presse
	Observations and Information Observations and Information
	Well held Pressure
	we'll it is a factorial to the factorial

ACTION REQUIRED



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

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart Director GARREY CARRUTHERS
Governor

LARRY GORDON Secretary

CARLA L. MUTH Deputy Secretary

January 4, 1988

Phil Withrow
B & E, Inc.
P.O. Box 756
Hobbs, NM 88220

Dear Mr. Withrow:

The Underground Injection Control staff of the New Mexico Environmental Improvement Division Ground Water Section would like to thank you for your cooperation during our recent inspections of B & E Carlsbad and B & E Loco Hills brine facilities. Copies of the inspection forms are attached for your reference. Deficiencies noted during the inspections are as follows:

B & E Carlsbad

- 1. Evidence of oil spillage/dumping near fresh water tank. Recent brine spills also evident. Need to keep facility free of spilled brine/produced waters.
- 2. Gauge on top of injection well not working. Need to repair or replace.

B & E Loco Hills

- 1. Two pits (approximately 15' x 40' x 3') containing produced waters with oily residues observed near wellhead. Pits should be kept free of produced waters either by fencing or frequent patrolling.
- 2. Need to keep brine storage free of weeds and debris. Lack of maintenance can lead to premature deterioration of liner and berm.

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

Sincerely,

Kevin Lambert Hydrologist

Ground Water Section

Kevin A Lambert

KL:JP:egr

BRINE STATION INSPECTION FORM

DATE 12/1 1987 EID INSPECTOR Lambert Parker FACILITY 13 * E Zoco Hills LOCATION Loco Hills
FACILITY REP ON SITE Fody COUNTY Eddy
Phil in Carlabal
WELL OPERATION
well is injecting: through annulus through tubing source of fresh water
TRACE INJECTION/PRODUCTION LINES Buried line
WELL HEAD PRESSURE <u>GRAVITY</u> PSIG PUMP PRESSURE PSIG LEAKS AROUND WELL OR PUMP / Nowe
STORAGE AREA
FOR PONDS:
GENERAL LINER APPEARANCE Looks Good
AMOUNT OF FREEBOARD OL 162ft ANY SIGN OF OVERFLOW OR LEAKS 10 LEAK DETECTION SYSTEM FLUIDS DRY 5000 C/240140 of
LEAK DETECTION SYSTEM FLUIDS DRY Some Clean up of FOR TANKS: GENERAL APPEARANCE
LABLED PLAINLY YES NO BERMED TO PREVENT RUNOFF YES NO CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH
NUMBER OF TANKS FOR BRINE FRESH WATER
LOADING AREA
PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE ANY EVIDENCE OF RECENT SPILLAGE DOES FACILITY HAVE A SPILL COLLECTION SYSTEM ANY EVIDENCE OF OIL SPILLING/DUMPING Looks in good shape
MONITORING WELLS
DEPTH FT STATIC WATER LEVEL FT BELOW CASING SAMPLED THIS VISIT YES NO TEMP EC
COMMENTS Observed 2 pets near wellhead Containing produced waters up significant amount of oil presidue 15 × 45 × 3
Noodo remove of clean up site
Need to talk to Sischarge about

MONITORING AND REPORTING FORM

		PLICABLE BOXES IGINAL DP: X
DISCHARGE PLAN NUMBER: 322		D. APPROV:
SIC NUMBER:	REN	RENEWAL: X EWAL PEND:
EID DISTRICT: IV	MOD MODIFICATIO	IFICATION: X N PENDING:
NAME OF FACILITY: B & E, Inc. Locos Hil	1s Brine Station	
LOCATION OF FACILITY: County Rd. 217, 6	miles SW of Loco H	ills
ALTERNATE OR PAST NAME OF FACILITY: F	ermian Brine Sales,	Inc. Artesia Station
CITY OR CLOSEST TOWN:Loco Hills	USGS QUA	D: Oil City
COUNTY: Eddy TWP: 188	RGE:28E	SEC: 24
CONTACT PERSON: Monk ,	Mickey TIT	LE:
ADDRESS OF CONTACT PERSON: P.O. Box 2		
ADDRESS OF CONTACT PERSON. 1.0. BOX E		· · · · · · · · · · · · · · · · · · ·
TYPE OF FACILITY: Brine production and MEANS OF DISCHARGE (LAGOON, LEACH F	saies	
•		:IFY):
injection well for brine production, lagoor	for storage	vin
•	for storage	vin
<pre>injection well for brine production, lagoor REVIEWER: (CURRENT) Lambert</pre>	for storage Ke	vin
<pre>injection well for brine production, lagoor REVIEWER: (CURRENT) Lambert</pre>	for storage Ke FI OF EXPIRATION:	vin
injection well for brine production, lagoor REVIEWER: (CURRENT) Lambert LAST NAME DATE APPROVED: 12/19/86 DATE	for storage Ke FI OF EXPIRATION:	vin
injection well for brine production, lagoor REVIEWER: (CURRENT) Lambert LAST NAME DATE APPROVED: 12/19/86 DATE MONITORING REQ: (COMMENT, IF NECESSE SAMPLING SITE STORET CODE	for storage Ke FI OF EXPIRATION: ARY, ON BACK)	vin RST NAME 12/19/91
injection well for brine production, lagoor REVIEWER: (CURRENT) Lambert LAST NAME DATE APPROVED: 12/19/86 DATE MONITORING REQ: (COMMENT, IF NECESSAMPLING SITE STORET CODE (SAMP. SITE) Fresh water	for storage Kee FI OF EXPIRATION: ARY, ON BACK) PARAMETER(S)	DATE DUE

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

Fresh water Brine water	TDS, chlorides	January
Cement bond log	next time tubing is pulled	1 to 3 years
COMMENTS:		
SECTION 3-106.A. ?	WHICH DISCHARGE PLAN HAS BEE	N REQUIRED UNDER
	<u>YE</u>	s <u>no</u>
OTHER APPLICABLE PERMIT	RCRA RADIOACTIVE MAT. NPDES UST	
STATUS OF DP: ACTIVE: WITHDRAWN: EXPIRED, NOT RENEWED: INACTIVE-TERMINATED OF		
INACTIVE- OPERATION P		
SEND REPORTS TO:	GROUND WATER SECTION EID: GROUND WATER/HAZARDOUS P.O. BOX 968 SANTA FE, NM 87504-0968	WASTE BUREAU

REVISED: 12/12/86,

1 - 25

EID BUCKSLIP

CHECK ONE: $\overline{/\times}$ LETTER TO $\underline{\beta}$	+ E. INC	<u></u>		·	•
	Mitzelfelt		— ature	• •	•
/_/ MEMO TO				•	
/_/ PRESS RELEASE		•			
/// OTHER			:		•
SUBJECT: Discharge	PLAN Approvi	1/60/	or leneu	I t Modife	cation
SUBJECT: <u>Discharge</u> DRAFTED BY:	Kevin Lan	best	· 	12/19/86	
CONCURRENCES:		-	DATE .	(Date) DATE	
NAME:		INIJIAL	REC'D	APPROVED	
E. Rebuck	Sect. Mgr.		12/22	12/22	
R. Mitzelfelt	Bur. Chief	SC	 	12/23	
Richard Holland	Dep. Dir.	****	-	•	
Denise Fort	_ Director		—	<u> </u>	
ETUN DECICION NEEDED DV	1510				,
FINAL DECISION NEEDED BY	ASAP ate)	BECAUS	ZE	lave been	
working on plan for	some time	<u>e</u>	31	•	
1	· · · · · · · · · · · · · · · · · · ·		-		
COMMENTS BY DRAFTER OR REVIEWER	(S):	•			
	•	e of		17	•
This is a few for	' L	uccon !	Jaco	1 + 0 1	•
which needed to modify	j da Su	rface.	facil	My lul	<u> </u>
Sypalon-lined stora	ge lagoo	n and	made	Some mon	ilouing
and reporting requirement	to change	es. O	n ree	ent feel	Ed .
inspection the product	tion face	lity was	in go	od shap	e 1/1
inspection the product and Staff doesn't see	any prob	lens m	The	Ting on the	a future

BRINE STATION INSPECTION FORM

,	Lambert, Koschal
DATE /2/9 1986	EID INSPECTOR Baker, Johnson
	LOCATION Loco Hills T185 R28E
FACILITY REP ON SITE MOULE	COUNTY Foldy Sec 24
DP-322 Elmore	•
WELL OPERATION	
	h h
WELL IS INJECTING: THROUGH ANN	ulus X Through Tubing Reversed
SOURCE OF FRESH WATER Double East	de Pipetine - City Water
TRACE INJECTION/PRODUCTION LINES	THE TIME - CITY WALCK
	WATER line PRESSURE 80 PSIG
WELL HEAD PRESSURE	SIG PUMP PRESSURE PSIG
LEAKS AROUND WELL OR PUMP None	bid fom fresbornFsig
ELIMO AROUND WHEN OR TOMI	
STORAGE AREA	CAN Add pump
STORAGE AREA	to increase
FOR PONDS?	production
GENERAL LINER APPEARANCE Hypalon	1:400
GENERAL DINER AFFEARANCE 14 V 1/3/10/10	- Nek
AMOUNT OF FREEBOARD ~ 2 /2 /	
	001
	DRY
LEAK DETECTION SYSTEM FLUIDS	X DRY
TOD TANKE A! . 2	Standpipe to collection pipes
FOR TANKS: None	under pond
GENERAL APPEARANCE	
LABLED PLAINLY YES	NO
BERMED TO PREVENT RUNOFF YES	NO
CHECK CONTENTS TO ASSURE PROPER FLU	JID/LABLE MATCH
NUMBER OF TANKS FOR BRINE	FRESH WATER
LOADING AREA	A NO beems but unnecessary at this
PROPERLY GRADED AND BERMED TO CONTA	AIN SEILTIAGE X AES WO
ANY EVIDENCE OF RECENT SPILLAGE	$\underline{\hspace{0.1cm}}$ YES $\underline{\hspace{0.1cm}}$ NO
DOES FACILITY HAVE A SPILL COLLECT:	ION SYSTEM YES X NO
ANY EVIDENCE OF OIL SPILLING/DUMPIN	VES X NO
	8
MONITORING WELLS	
DEPTH FT STATIC WAT	ER LEVEL FT BELOW CASING
SAMPLED THIS VISIT YES NO	
COMMENTS LOCATION IS Along	Cont 217
	good condition
C PERTITOR HURS TO DESTITE	
	<u> </u>
	<u> </u>

PHIL WITHROW

B&E, INC.

N.M.S.C.C. No. 1015-1

P. O. Box 2292 Hobbs, NM 88240 Phone (505) 393-0762

Transportation of Oilfield Equipment and Supplies Fresh Water Brine Supply Wells Salt Water Disposal Frac Tanks Vacuum Trucks

December 2, 1986

Mr. Kevin Lambert Water Resource Specialist - EID P.O. Box 968 Santa Fe, New Mexico 87504-0968

RE: Discharge Plan for B & E, Inc. Loco Hills Brine Station

Sec. 24 T-18S, R-28E

Dear Mr. Lambert:

In response to your phone conversation with Mickey Monk on September 8, 1986 you stated there were four (4) changes that needed to be made prior to approval of our Discharge Plan. Namely a firm committment to the following:

- 1. I firmly commit that we will run a cement bond leg the next time the tubing is pulled out of the hole. That would occur anytime there is a plugged or separated joint of tubing (probably 1 to 3 years).
- I firmly commit to keep a record of fresh water injected and brine water produced. I will report it quarterly. (Attached is a copy of quarterly report for the third quarter; July thru September).
- 3. I firmly commit to pressure test (or otherwise prove mechanical integrity of well) and report results each year along with water analysis for both fresh and brine (total dissolved solids and chlorides). (Attached is this years test results and water lab reports).
- 4. I firmly commit that we will monitor leak detection system daily on storage pit, and shall include a record of this in the quarterly report.

You stated that if these conditions were met, there should be no problem in obtaining approval of our Discharge Plan.

DIECIETAVIE |
DEC 1 0 1986 |
BUREAU
BUREAU

PHIL WITHROW B&E, INC.

Transportation of Oilfield Equipment and Supplies Fresh Water Brine Supply Wells Salt Water Disposal Frac Tanks Vacuum Trucks

N.M.S.C.C. No. 1015-1

P. O. Box 2292 Hobbs, NM 88240 Phone (505) 393-0762

December 2, 1986

Page 2

The purpose of this letter and attached reports are to comply with that request. I will abide by this committment.

Yours Truly,

Phil Withrow B & E, Inc.

PW/val

Attachments



Chemical Company P. O. Box 1306 • Phone (505) 746-6611

Artesia, New Mexico 88210

WATER ANALYSIS REPORT

Company B & E, Inc.	Date 12-1-86
Field Loco Hills Bring Station	County Eddy State NM
Lease and Well No. State 24-#1 Prod. Form	
Source of Sample Fresh at Insection wine	
Sample of Prod. Water Inj. Water 12 Other	e eagle Water Line
Date Collected 12-1-86 Analyst	F. Jones
WATER ANALYSIS PAT	
(NUMBER BESIDE ION SYMBOL INDICATE:	5 10 15 20C1-
Ca**	нсо3-
	\$04 ⁼
Fe***	Co3=
Dissolved Solids	EPM
Constituent MG/L (PPM) Colsium 400	ph6.8
Magnesium 120	Sp. Gravity
Sodium 740	
Iron Trace Chloride 960	
Bicarbonate 104	
Carbonate	
Sulfate 88	· ·
Total Hardness 920 Total Dissolved Solids 2072	
Hydrogen Sulfide	The state of the s
Oxygen 1.5	
Remarks:	

NICHOLS PRINTING, INC.



Chemical Company P. O. Box 1306 • Phone (505) 746-6611

Artesia, New Mexico 88210

WATER ANALYSIS REPORT

Company	3 & F. Inc	Date 12-1-86
Field <u>St. 24</u>	#1 Sec. 24 T-18S R-28E County Eddy	State <u>NM</u>
Lease and Well No.		xit :
Source of Sample_	Brine discharge @ Storage Pit	
Sample of Prod.	Water ☑ Inj. Water ☑ Other □	
Date Collected 12.	-1-86 Analyst Fred Jones	
Na* ²⁰	WATER ANALYSIS PATTERN (NUMBER BESIDE ION SYMBOL INDICATES me/I* SCALE UNIT) 15 10 5 0 5 10	15 20 _{C1} -
Ca++		HCO3-
Mg**	┨┊ ╃╬╁╅╅╄╃╃╫╫┼┼┼┼┼┼┼┼┼ ┼┼	SO4=
Fe ***		co3=
Dissolved Solids Constituent	MG/L (PPM) EPM.	:
Calcium Magnesium	1220 210 Sp	ph 6.3 Gravity
Sodium	104.810	
Iron	2+ 161,000	•
Chloride Bicarbonate	215	:
Carbonate	nil	
Sulfate	5110	i i
Total Hardness Total Dissolved Soli	1460 ds 166,785	
Hydrogen Sulfide		
Oxygen	2+	
Remarks:		
	•	**************************************
1		

NICHOLS PRINTING, INC.

=======================================	Date	Tresh water Line to Well Head	Line From Well Head to Pit	FRESH Cater Eded	a decima	Pit Linera Leak Detection	Total.	Total BBLSBAINS SOLD	OKED By	
	9-1-86	OK			<u> </u>	DRY	/ .	150 8815	LARRY E.	
	9-2-86					u				
المناجه المستود	9-3-86	1		one names oftogrammely specific between the probable consensus and	to astrony harpessana arangan arang aband pasan interdiffusion ar	<u>U</u>				1.1
-	9-4-86			and the second s		[1		normal comments and the company of t	A	
- The second	9-5-86	P. M. Biller Father Committee . A. L. St. St. Co. S. L. College Committee . A.	1	ann ar sannagair sìne foireach aigeann ann an ann an ann an ann an ann an a						
	9-6-86		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			11				
	9-7-86					1/		1050 8019		a process amongstor digitals
	9-8-86	Action to the second				11	/:	150 BOLS		
; 	9-9-86)			((900 BB15	<u> </u>	
	9-10-86			A. property gate med (Stryler (1488) North State (1484) North American (1484)	manti likturana. Atançina bakalak darder carena			300 8815	(
,)		O.K.	O.K.	1,112 0015		DRY	1,112 8015	150 8815	LARRY E.	
	9-12-86	7				11				
	9-13-86					11				
1.	9-14-86				1	1:	<u> </u>			
	9-15-86			and the supplication of th				450 ess		!
	9-16-86				- me me me mont in many in make to the minimum.			375 8815	A STATE OF LANGUAGE SPECIAL PROPERTY OF THE PR	· ·
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10/7/86 393-0762 To: B&F Loco Hills Brine Station - Mickey Monk From: Kevin Loubert - EID Ground Water JUIC RE: Commitment on M&R Requirements for dischange plan. Must get before approved 2:49pm Not in Left Message to Return Call 887-6706; Carlabal Discussed their preventive maintenence noutine. Mickey wanted to want soll Sending information until noutine is findy established. I inform him to go ahead and send all the information requested in phone memo of 9/8/86 plus a se navative desembine preventive montenence and steps to correct any lealage , What routine you decide is up to you get us some information so that we can review & evaluate techniques to be sure they need the intent of regulations, We intur will respond to you regarding me feel are reeded to be in compliance with regulations Mickey stated he would put together a submittal to us and get it to us ASAP levi Tabet

9/8/86 To: B& E Loco Hello Brune Station - Mickey Monk 393-0762 From i Kevin Lambert - EID Ground Water-UIC RE: Dicharge Plan M&R requiements - must get commitment before granting, See Notes dated 9/5/86 of D.P. Review. Must send letter commetting to beginnent as stated 9:46Am Mickey not available, left message to return call 11:22 Am Mickey Monk Need to committe the following MAR requiements Need to do coment bond log next time tubing is pulled, and elaborate preventive maintenence for the tubing so we consea when to expect the tubing may be pulled.

1 2) Record Total Volume Fresh Water Injected and Total Volume. Brine Sold. Report quantity April, July, Oct, Jan J. Analysis year Fresh Water + Brine for TDS and Chloride Report in Jamery 1. V 4. Do Pressure test once a year Report in January 5. Monitor Storage Pit Lenk Detection System daily Report results quarterly April, July, October, James Mickey said he would be sending a committing to the above M&R requirements. I told him we would review for adequary based on our discussion today and notify B&F of DP approval or disapproval Kevin Lambert

DP-300 BAL Sino Station 9/4/12 Brocking Pilan Kirim of 5/6/86 heller improsing to 1 Dy quistions 1. Pore Lines Specificación; malual type - robjethorne de m Ensure - channe princip The Manual Governor of all all of his low was a consult to the The wild Die Love town ing it Rease commit to 121 The service of EID would now reception a sixtee - EID want now companie a series carry ? - Hut upedyna le ly rolon dans o ha de les y huda There are no in the file one organic prologic service lines. - Information advanced to a Discount Little much now a formation of an interior of so in which is sure or many him a winder the parties and in in the section of the EK. y reference well and from a militarious is

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7. 8. I call in section system we want daily as truck receipt are gallered daily Chy 200 Mary 100 Care of the Contract of the C 10. Sin by Production is in my south Montereing of Report Requirements But on Monte Province to be severed bond say next time tubing is pulled B. Revend 1886 From Alexander and Lazar Francis Late I come another April, Juny, Och. Die Morion ne a pear to some per spire in someony A. De human hard and a some hope in the say 5. And I had been signed in, Report wealts anotherly April July, Colober, is many.

PHIL WITHROW

B&E, INC.

N.M.S.C.C. No. 1015-1

P. O. Box 2292 Hobbs, NM 88240 Phone (505) 393-0762

Transportation of Oilfield Equipment and Supplies Fresh Water Brine Supply Wells Salt Water Disposal Frac Tanks Vacuum Trucks

August 5, 1986



Mr. Steve Sares Water Resource Specialist - E.I.D. P. 0. Box 968 Santa Fe, New Mexico 87504-0968

Re: Discharge Plan for
B & E Loco Hills Brine Station
Sec. 24, T-18-S, R-28-E

Dear Mr. Sares:

In response to your April 17, 1986 letter please review the following additional information you required.

- 1. The pit liner is described by a schematic in my previous application. The upper left corner of the schematic should read; Pit 7'5" deep, capacity 10,000 barrels, pit lined with 30 mil chemical joined polyethylene film (reinforced Hypalon) nylon reinforced. I am including original application for permit, Exhibit "A" Order No. 3221.
- 2. I have no proof of bond log ran on the 8-5/8" casing. If you so desire, I will consent to having such test made the next time the tubing is removed form the well bore.
- 3. Total volume of injected fluid as of July 1, 1986, is 2,599,710 barrels. It should be noted that this is the total amount of fresh water purchased. On occasion there have been leaks detected and repaired (amount lost undetermined), and fresh water has been diverted to the storage pit to replace water lost to evaporation (also undetermined). We consider these amounts negligible in determining the approximate size of the cavity based on total volume. Attached are the meter readings since 1979.
- 4. Attachment #4 is maps and logs detailing the geology and geologic structures of the local area; there are no known or suspected faults. This information was obtained from the NMOCC office in Artesia with the aid of Mike Williams (NMOCC) and George Brooks (Geologist Heyco, Inc.).
- 5. Attachment #5 is two maps showing surface and well locations. There are no wells within a one-quarter mile radius of the brine well.

PHIL WITHROW B&E. INC.

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P. O. Box 2292 Hobbs, NM 88240 Phone (505) 393-0762

- 2 -

- 6. The flooding potential at the site is protected by the 7'5" dikes which create the brine reservoir. Since normal rainfall is less than 11.74" annually, a flood would be reasonably impossible. Attachment #5 is a map showing elevation and placing the storage pit near the brow of a hill.
- 7. Fluid measurement reports on injection would be determined by the amount purchased from the City of Carlsbad Fresh Water Pipeline Division. Fluid measurement of brine sales would be determined by the truck ticket receipts that are collected daily. Each portion would be recorded and sent to the E.I.D. quarterly.

CONTINGENCY PLAN

- 8. As truck receipts are gathered daily, so are the leak detection devices monitored.
- 9. Should a leak occur in such quantity as to injure or be detrimental to any life form, the accidental discharge would be reported (as required in section 1-203) and removed either by transport or vacuum truck, and disposed of at an approved salt water disposal system. The leak would be repaired and system prepared for inspection.
- By my signature below I certify under penalty of the law that I have personally examined and am familar with the information submitted in this document and all attachments, and based upon inquiries of those individuals immediately responsible for obtaining this 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/or imprisonment.

Sincerely,

Philip B. Withrow

President

MM:1c

Attachments

ATTACHMENT #3

COTAL VOLUME INJECTED FLUID

3/1/79 - 7/1/86

2,599,710 BBLS

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- Total Extracted Brine

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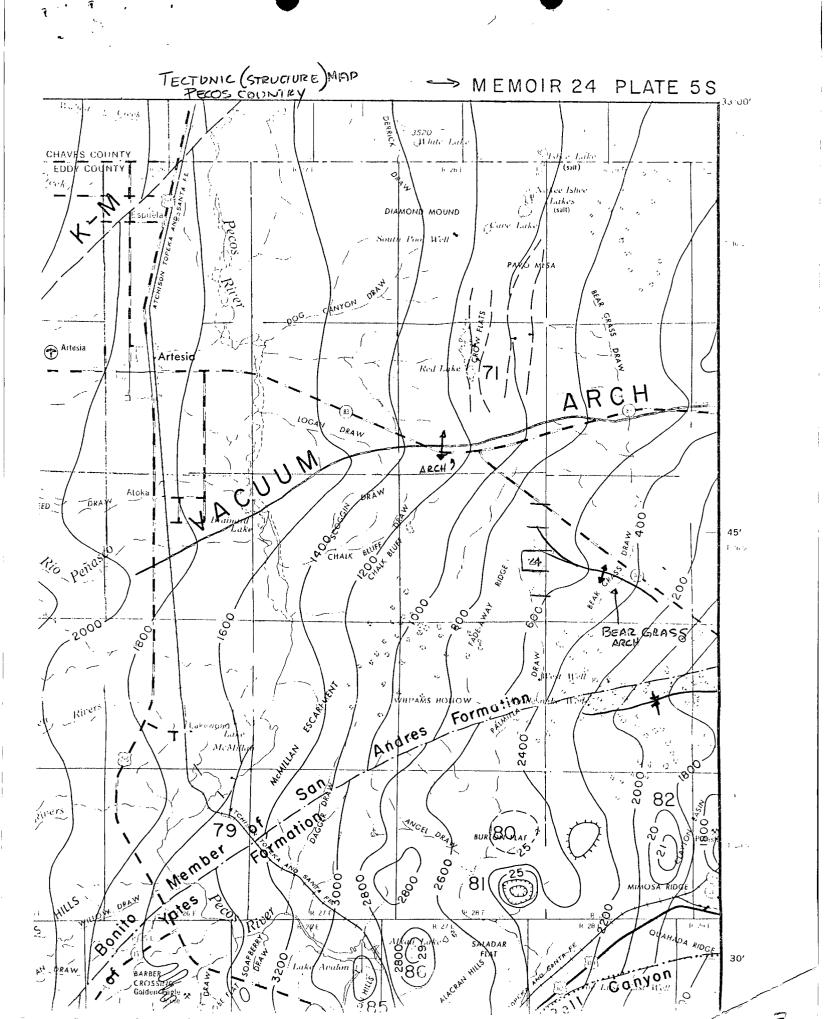
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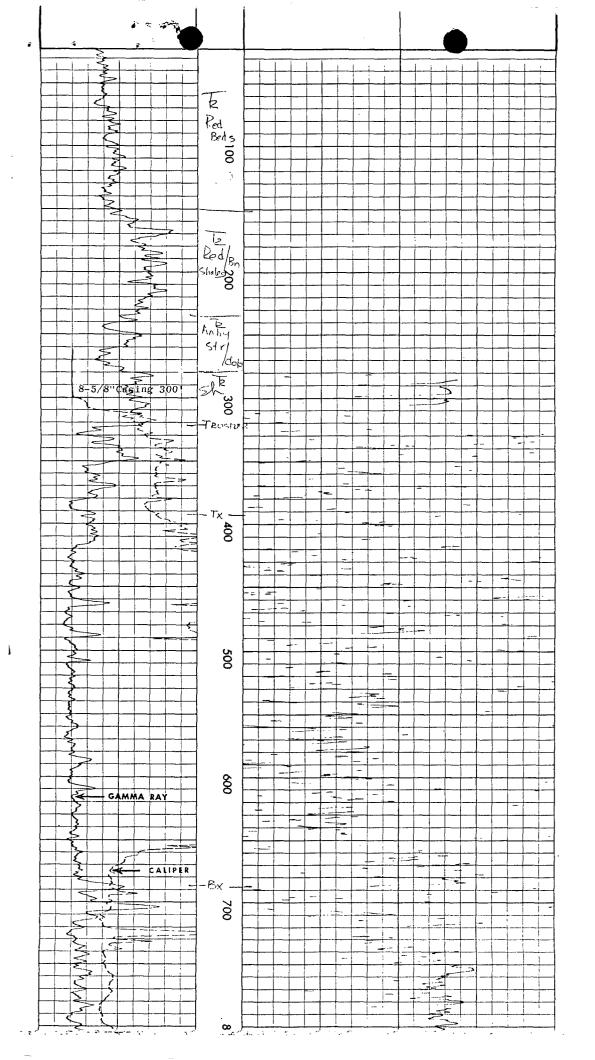
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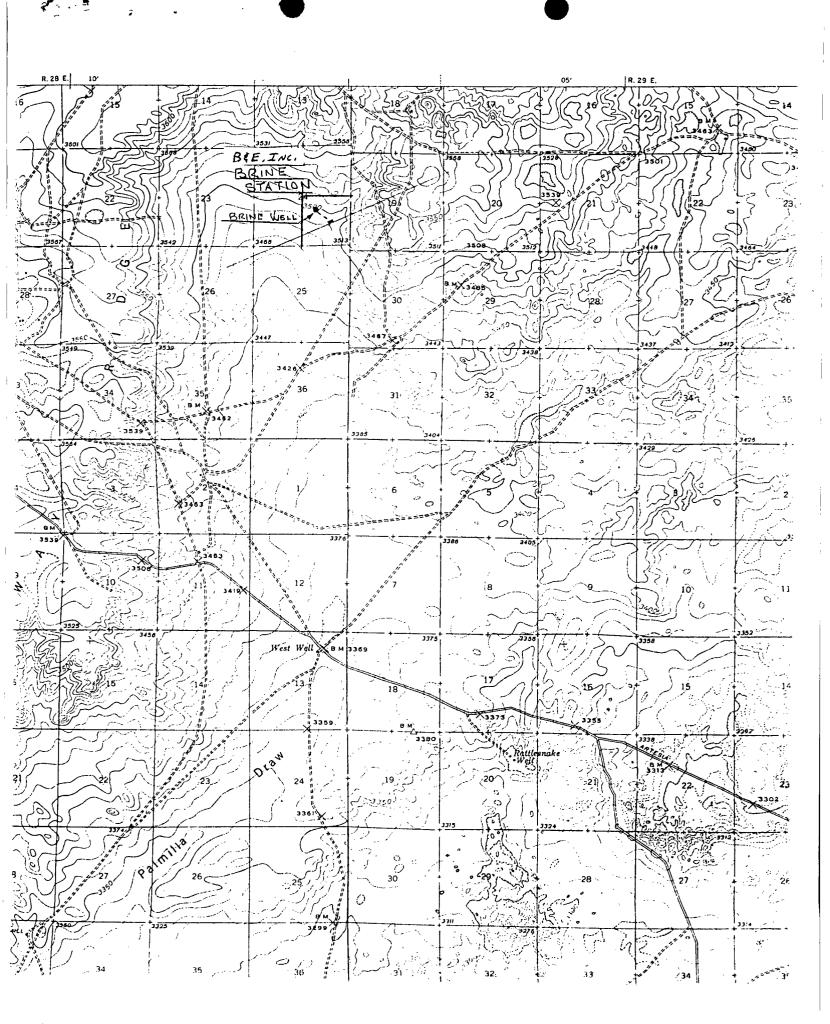
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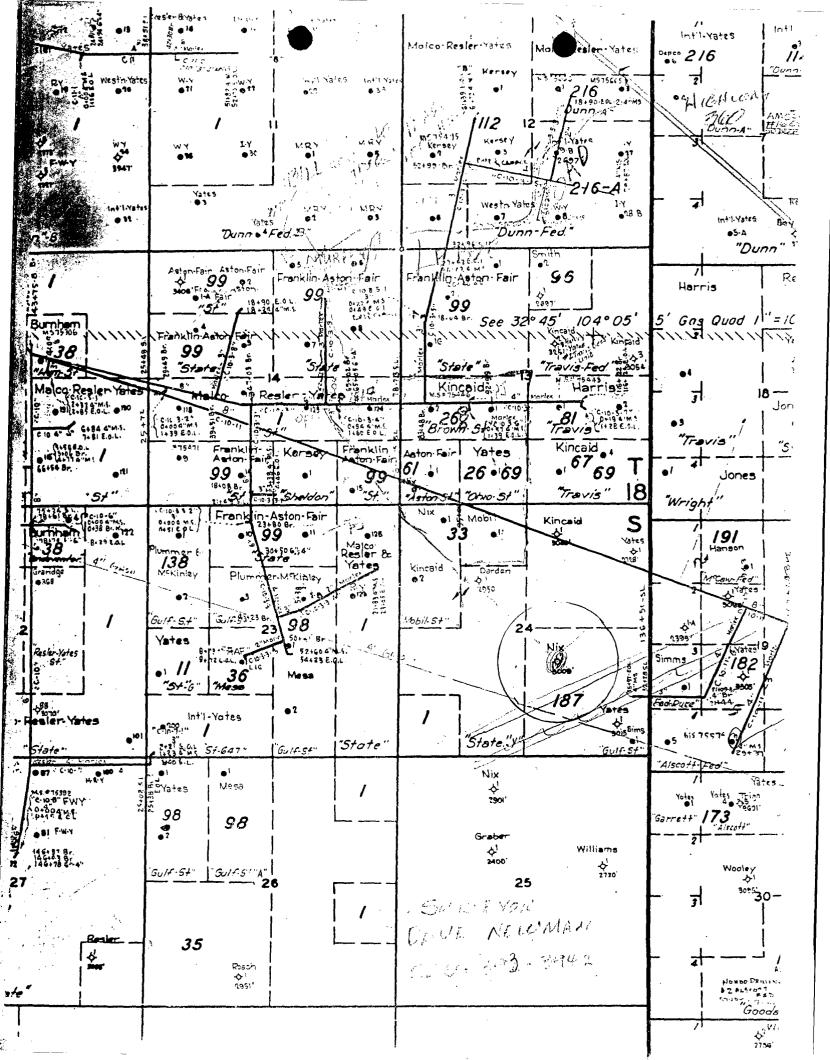
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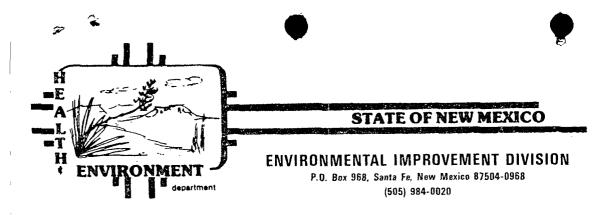




ATTACHMENT #1 APPLICATION FOR PERMIT ONLY STARAGE TO UTILIZE A LINED EVAPORATION PIT

Brine Starge * 2-1

New Wexten of Courage and Courage and Mexico of Courage and Courag
Name of Operator Permian Brine SAles & Service, Inc.
Address P. O. Box 1591, Odessa, Texas 79760
Name of lease upon which evap- oration pit will be located State "24"
Location of evaperation pit: Unit Letter J Section 24 Township 185 Range 28E
Lease(s) which will be producing into pit
Pool(s) which will be producing into pit DNA
Analysis of disposal water: Chlorides DNA ppm. Total dissolved solids DNA ppm (If more than one pool will be producing into pit, give water analysis for each pool.)
Quantity of water to be disposed of into this pit DNA barrels per day
Water production from these same wells six months ago DNA bpd. Three months ago DNA op (If more than one pool will be producing into pit, give water production data for each)
Method of hydrocarbon entrapment to be employed: Settling tank DNA Header pit DNA
If settling tank is to be used, give size and number of barrels DNA
If header pit is to be used, give dimensions and depthDNA
Header pit lining material DNA Thickness DNA
Dimensions of Evapuration Pige ("A" and "B" on diagram) 118' x 118'
Number of square feet contained in above 13924
Depth (Top of levee to floor of pit"D" on diagram) 7.5 ft.
Material to be used as liner Reinforced Hypalon Phickness 30 Mil
Does manufacturer recommend protection of material from direct sunlight? Yes No X
If yes, what means will be provided to so protect the material?
Is material resistant to hydrocarbons? Yes X No No
Is material resistant to acids and alkalis? Yes X No
Is material resistant to salts? Yes X No
Is-material resistant to fungus? Yes X No
Is material rot-resistant? Yes X No
Will joints in material be fabricated in the field? Yes X No
If yes, describe method to be used in joining material Chemical Joining
Attach manufacturer's brochure describing the qualities of the lining material.
Describe the leakage detection system to be used <u>Drainage and sump method</u> .
,
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and further, that the subject evaporation pit and appurtenances, when installed, will be kept in good repair, and that all due diligence will be exercised in keeping the surface of the water free of oil and other debris.
Name (1. /// All Mickerson Title President Date / - 23.79
A. L. Hickerson President



TONEY ANAYA GOVERNOR

DENISE D. FORT

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 25, 1986

B&E Incorporated P.O. Box 2292 Hobbs, New Mexico 88240

Gentlemen:

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

If you have any questions, please do not hesitate to contact me at the above address or at phone number (505) 827-2894.

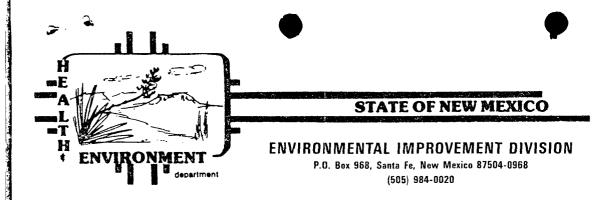
Sincerely,

Karl Souder

Acting Program Manager Ground Water Section

KS/mp

Enclosure



TONEY ANAYA
GOVERNOR

DENISE D. FOF DIRECTOR

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 25, 1986

The Honorable JoAnn Martin, Mayor City of Hobbs P.O. Box 1117 Hobbs, New Mexico 88240

Dear Mayor Martin:

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

If you have any questions, please do not hesitate to contact me at the above address and telephone number 827-2894.

Sincerely,

Karl Souder

Acting Program Manager Ground Water Section

Koul Sown.

KS/mp

Enclosure



STATE OF NEW MEXICO

TONEY ANAYA GOVERNOR

DENISE D. FOR

ENVIRONMENTAL IMPROVEMENT DIVISION

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 25, 1986

Board of County Commissioners County of Eddy Eddy County Courthouse Hobbs, New Mexico 88240

Board of County Commissioners:

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

If you have any questions, please do not hestitate to contact me at the above address or at phone number (505) 827-2894.

Sincerely,

Karl Souder

Acting Program Manager Ground Water Section

and Lover

KS/mp

Enclosure

APRIL 25, 1986

TO BE PUBLISHED ON OR BEFORE MAY 7, 1986

PUBLIC NOTICE

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Notice is hereby given that, pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plans have been submitted for approval to the Director of the New Mexico Environmental Improvement Division, P.O. Box 968, Santa Fe, New Mexico 87504-0968; telephone (505) 827-2894.

(DP-322) B&E INCORPORATED, P.O. Box 2292, Hobbs, New Mexico 88240 proposes to modify and renew the discharge plan for an existing brine production and sales facility located in the NW/4, SE/4 Section 24, T18S, R28E, Eddy County, New Mexico. Fresh water is injected through a well into salt beds at a depth of 4/6 to 680 feet below the surface. Brine containing approximately 298,670 milligrams per liter (mg/1) total dissolved solids is returned to the surface at an average rate of 30 gallons per minute. The brine is then stored in a synthetic-lined pond for sale. Ground water most likely to be affected by the discharge occurs at a depth of 225 feet and is of unknown quality at this time.

(DP-431) CITY OF SUN FOUNDATION TRAILER PARK, Andrew Webber, Chairman, P.O. Box 370, Columbus, New Mexico 88029 proposes discharging up to 4,000 gallons per day of domestic waste water to a clay-lined total retention lagoon located near Columbus in the NW 1/4 of Section 27, T28S, R8W, Luna County, New Mexico. The waste water originates from a fifteen-unit trailer park. The ground water most likely to be affected is at a depth of approximately 100 feet and has a total dissolved solids concentration of about 80 milligrams per liter.

(DP-427) FARMINGTON, THE CITY OF, Robert Metzler, Director of Public Works, P.O. Box 900, Farmington, New Mexico 87499 proposes to discharge treated water from air strippers located at the Municipal Operations Center, T29N, R13W, S14, San Juan County, New Mexico. Approximately 86,400 gallons per day of ground water contaminated with gasoline will be pumped from a series of 14 wells, held in storage tanks, and then treated by pumping the water through two air strippers connected in series. Treated effluent which meets New Mexico ground water standards will be discharged from the air strippers to either of the following:

- (1) the City of Farmington sewage treatment facility
- (2) the Animas River
- (3) reinfiltration galleries located on the property

The ground water most likely to be affected is at a depth of 4 feet, and has a total dissolved solids concentration of approximately 920 mg/l.

(DP-430) LAS CRUCES SCHOOL DISTRICT NO. 2, Fred Ismond, 301 West Amador Avenue, Las Cruces, New Mexico, Dona Ana County, proposes to discharge up to 4400 gallons of domestic sewage into a septic tank and leach field. The discharge is to occur 179 days per year and originate from Ferguson Road in Elementary School located at T22S, RIE, Section 25 (N 1/2). The nearest ground water lies 100 feet below the surface with a total dissolved solids of approximately 400-1000 mg/1.

PHIL WITHROW B&E, INC.

Transportation of Oilfield Equipment and Supplies Fresh Water Brine Supply Wells Salt Water Disposal Frac Tanks Vacuum Trucks

N.M.S.C.C. No. 1015-1

P. O. Box 2292 Hobbs, NM 88240 Phone (505) 393-0762

April 22, 1986

New Mexico Environmental Improvement Div. P.O. Box 968
Santa Fe, N.M. 87504-096
51786 UIC

Attention: Steve-Sares

Re. GWB-4 Discharge Plan Brine Production Facility Located Sec. 24, T-18S, R-28E Eddy County, New Mexico

Gentlemen:

In response to our phone call April 18, 1986 with Mr. Steve Sares, B & E, Inc. hereby acknowledges and agrees to comply with the discharge plan submitted by Permian Brine Sales, Inc., and approved by the State of NewMexico Energy and Minerals Department, Oil Conservation Division, as of December 18, 1982, persuant to Section 3-106 of the Water Quality Control Commission Regulations, Section 109.

Thank you.

Yours truly,

Phil Withrow, Pres. B & E. Inc.

cc: Roger E. Yarbro, Attorney at Law P.O. Box 1718
Carlsbad, N.M. 88220

APR 2 8 1986

COLUMN TIMES/GAFAGROUS WASTE
BUREAU

4/17/86 TELEPHENE CONVERSATION

- I SPOKE WITH MICKEY MONK, TOUD HIM I NEEDED A COMMITMENT FROM
HIM THAT BEE WOULD ABOVE BY OLD OCD - PERMIAN PLAN IN
ADDITION TO STHER SUBMITTANCE. REASON FOR THIS IS THAT
WHILE WRITING 4/17 letter which is alreing in the mail
I HAD EVALUATED INFORMATION FROM OLD PLAN AND NEW STUFF
THEST WROTE - HE SAID OR - HE'D PUT A LINE IN THE
RESPONSE THAT SAYS HE (BEE) WILL ABOVE BY STUFF IN OLD
DP.

Horare



DENISE D. FOR DIRECTOR



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 17, 1986

Mickey Monk
B & E, Inc.
P.O. Box 2292
Hobbs, New Mexico 88240

RE: Discharge Plan for B & E Loco Hills Brine Station (DP-322)

Dear Mr. Monk:

This is to inform you that I have been assigned to review your discharge plan application, at least temporarily, in Ms. Morgan's absence. I have completed review of the file for the Loco Hills station. Before I can recommend approval of the discharge plan some additional information is required. These items are listed below.

- 1. Please submit specifications on the pond liner. Include material type, thickness, and technique used to seal seams. This information is necessary to assess the adequacy of the pond to contain brine as the liner weathers.
- 2. Was a cement bond log run on the 8 5/8 casing? If so, please submit a copy of the log. If not, a log may be required when the tubing is next pulled. A cement bond log is necessary to insure proper bonding to the formation so that fluids do not migrate behind the casing.
- 3. Please submit measurements of the volume of injected fluid. This is necessary to calculate the approximate size of the cavity.
- 4. Please submit maps and geologic cross sections detailing the geology and geologic structures of the local area, including known or suspected faults. These are necessary to evaluate the potential for subsurface fluid escape from the operation.

Mickey Monk Page 2 April 17, 1986

- 5. Please submit a map showing the brine well and the numbers, name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, mines, quarries, residences and roads, and any other pertinent surface feature that is within 1/4 mile of the brine well. Include completion and plugging information for idenified wells. This information is necessary to evaluate possible routes of migration of fluids into other bodies of water.
- 6. Please address the flooding potential at the site. This is required by WQCC regulation 3-106.C.4.
- 7. Describe means for measuring inflow to well and from well to ponds. Will B&E commit to recording flow volumes weekly and reporting these results quarterly to EID.
- 8. How is the leak detection system under the pond monitored. Will B&E commit to inspecting this system weekly and reporting results to EID quarterly.
- 9. Please submit contingency plans to deal with unexpected leaks or spills.

 Please be aware of spill reporting requirements of section 1-203. of the regulations.
- 10. Please submit Discharge Plan Signatory Requirements as described in Section 5-101.H of the regulations.

Once those items are properly addressed, we should be able to proceed with permitting the Loco Hills station. As Paige had informed you, Part 5 of the regulations requires more detail than the "old" discharge permits but eventually all brine wells will need to comply with the new regulations.

Should you have any questions, feel free to contact me at 827-2905.

Sincerely,

Steven Sares

Water Resource Specialist

Ground Water Section

SS/mp

cc: EID District IV Manager, Roswell

Re: BIE alfesta (Coco Hills) DP-322. These guys have an And I that regulares a complete DA to be submitted april 10, all ett comments on some due Ho BrE on/ before June 10. I left a message w/ Stan Watson's sec's That what they submitted was complefe enough to the considered a missing and they would get a letter from wo stating what add it info was I needed. I have annotated one of the in stra extrac. well If suffines) for indrafe what I seed is needed in Their DP. It's in their Gile. I thought if could be used to prepare the Seve 10th Celfer. BYE Carlobad in Atill arguing about whether or not they are covered runder Germian's old De Duff has met with Their landger. Don't know the outesme D. 4/10

. ...

TELEPHONE CONJERSATION STAN WATSON Paise, STAN WATSON Tatom, NM B+ E Inc. Buse well 398-3490

BéE-Low Hills - Report in to Paige -wants to Know Status of DP

- I TOWN HIM I DIDN'T KNOW What was going on with the DP.
- Page has left for at least a while it has project haven't been reassigned.
- He jost wanted to make sare he didn't get on our bad side by having an incomplete sibmittal.

Stor Sards

4/4: Para called and left message that
I would review pulmital and growther

Some sort of answer by Monday

4/7.

P. Morgan



STATE OF NEW MEXICO

TONEY ANAYA GOVERNOR

DENISE D. FORT

ENVIRONMENTAL IMPROVEMENT DIVISION

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

February 14, 1986

Mickey Monk 3%E Inc. POBox 2292 Hobbs, NM 83240

Re: Plugging bond for B&E Loco Hills Brine Station.

Dear Mr. Monk:

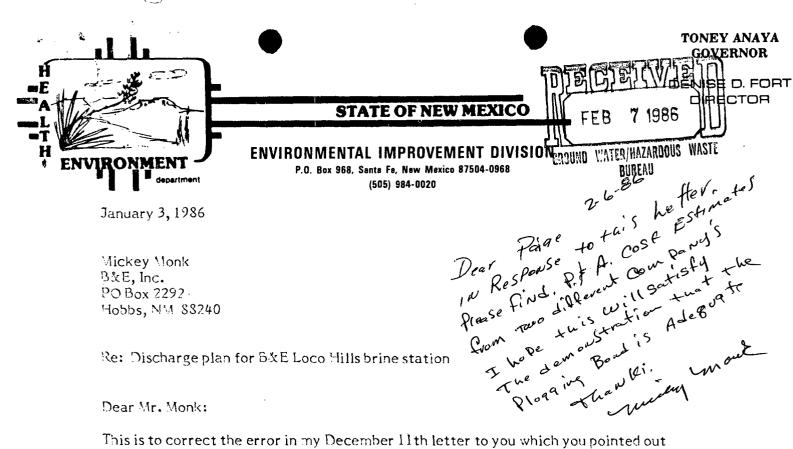
Thank you for your letter of January 6th, supplying cost estimates for plugging the brine well at your Loco Hills location. I note that neither estimate includes setting a plug at the base of the casing before cementing back to surface. However, I assume this would not add more than about \$500 to the estimates, so that your bond would still cover the work. The plugging bond you hold for this well is therefore deemed satisfactory.

Sincerely,

Paige Grant Horgan Water Resource Specialist

Ground Water Section

PGM:pgm



Dear Mr. Monk:

This is to correct the error in my December 11th letter to you which you pointed out in a phone call to me on December 18th. On reviewing the file on $3 \times E$ State 24-1 Brine Station, I realized that you had submitted copies of two bonds which you hold with two different state agencies. I informed you in my December 11th letter that the bond you hold with the State Land Commission will not serve the purpose of the financial assurance required of injection well facilities. However, as you pointed out to me by telephone, you also hold a bond with the Oil Conservation Division which is specifically intended to cover plugging of the brine well. If you can demonstrate that the amount of this bond is adequate to cover the cost of plugging by an outside contractor, then the bond will be accepted by this agency as meeting the terms of Section 5-210.B.17 of the Water Quality Control Commission (WOCC) regulations.

Sorry for the confusion.

I will be in touch with you by separate letter regarding B&E's Carlsbad brine station. Briefly, the materials describing the tranfer of ownership are deemed by our legal counsel not to meet the terms of Section 5-101.I. of the WOCC regulations, which governs transfer of a discharge plan upon the change in ownership of a facility.

Sincerely,

Jaks Morgan Paige Grant Morgan

Water Resource Specialist Ground Water Section

PGM:pgm

cc: John Guinn, EID District IV Manager.

LOGATIONS
HOBBS, NEW MEXICO
LOVINGTON HIGHWAY
EUNICE, NEW MEXICO
MAIN AND AVE. O
ANDREWS, TEXAS
EUNICE HIGHWAY
MIDLAND, TEXAS



P.O. DRAWER 2545 HOBBS, NEW MEXICO 88241 TELEPHONES

HOBBS ..(505) 392-6591

EUNICE . . (505) 394-3021

ANDREWS (915) 523-4420

MIDLAND . (915) 685-8555

February 5, 1986

B & E Inc. P.O. Box 2292 Hobbs, New Mexico 88240

Dear Sir;

Our <u>estimated</u> <u>cost</u> for possible services rendered on your lease: State 24 - #1, is listed below, however, final invoice totals could vary due to fluctuating prices.

Unit - 8 hours	788.00
Pump	654.45
Cement (130 sks)	1257.10
Welder	150.00
Water - (50 bbls	250.00
fresh water, transport	
truck)	
Bulldozer - (To clean &	
level location - 5 hour	s-275.00
Misc.	500.00
	\$3874.55

Thank you for any consideration you extend our company, please feel free to contact me at (505) 392-6591 should you have any questions.

Sincerely,

Kyle Rieger DA&S

M & W Rental Tool, Inc.

PHONE 885-6663 CARLSBAD, N. M. 88220 REVERSE UNITS and FISHING TOOLS
HIGH PRESSURE PUMP SERVICE

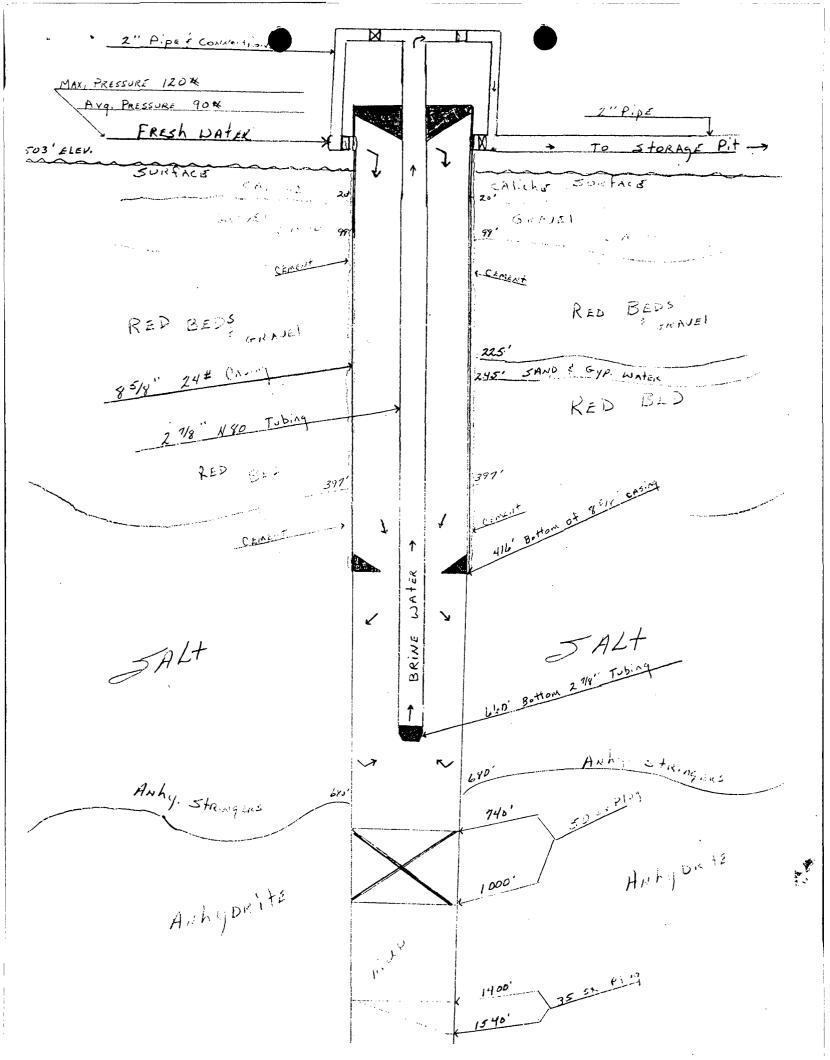
P. O. Box 2292 Hobbs, N. M. 88240

COST ESTIMATE TO PLUG AND ABANDON B & E INC. STATE 24 #1 SW - BRINE WELL

Procedure:	Est. Time
1. Move in, rig up pulling unit 2. Unflange wellhead & come out of hole with 660' 27/8" tubing, checking condition,	3 hrs
laying down 200' 3. Run in hole with 466' 2 7/8" tubing 4. Rig up cement pump truck, establish	/ hrs ½ hrs
cinculation & cinculate hole with 130 sacks of cement 5. Come out of hole laying down 2 7/8" tubing 6. Cut off wellhead, install dry hole marker 7. Rig down pulling unit & clean location	½ hrs hrs hrs hrs
	8 hns
Costs:	
Pulling unit - 8 hrs @ \$102.00/hr Tubing Tongs - 1 @ \$100.00/day Cement Pump - 1 @ \$800.00/day Cement - 130 sacks @ \$9.00 Welder & materials Water for cement - 50bbls F/W incl. standby Transport truck Bulldozer to clean & level location-5 hrs @ \$55.00 Misc. unforseer expenses	\$ 816.00 100.00 800.00 1170.00 150.00 250.00
Total	\$4061.00

Ray McEachenn, President

28 January 1986



Dry hole marker 6' H/2" ootSche Diameter With Well Designation & Legal Deseviption 14" Steel After Plugged. And Abandoned B. Ham of 85/8" Casing Pirelated to Sorface



STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

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

January 8, 1986

Mickey Monk B&E, Inc. PO Box 2292 Hobbs, NM 88240

Dear Mr. Monk:

Enclosed is a copy of the discharge plan we had on file for Permian Brine Sales' Artesia brine station, which is now B&E's Loco Hills brine station.

Sincerely,

Paige Grant Morgan
Water Resource Specialist
Ground Water Section

PGM:pgm

cc: John Guinn, EID District IV Manager.



BRUCE KING GOVERNOR

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

December 18, 1982

Permian Brine Sales, Inc. P. O. Box 1591 Odessa, Texas 79760

Re: GWB-4 Discharge Plan

Gentlemen:

The discharge plan submitted for the brine production facility and in site extraction well located in Section 24, Township 18 South, Range 28 East NMPM, Eddy County, New Mexico, is hereby approved.

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

Yours very truly

JOE D. RAMEY,

Director

JDR/jc

NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plan has been submitted for approval to the Director of the Oil Conservation Division, P. O. Box 2088, State Land Office Building, Santa Fe, New Mexico 87501, telephone (505) 827-3260.

PERMIAN BRINE SALES, INC., P. O. Box 1591, Odessa, Texas 79760, telephone (915) 332-0531, Al Hickerson requests approval of their discharge plan for their brine in situ extraction wells and facilities located in: Section 16, Township 25 South, Range 37 East, Lea County; Section 17, Township 22 South, Range 27 East, Eddy County; and Section 24, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico. Permian Brines Sales, Inc. injects water down their injection well to an underlying salt formation thereby dissolving the salt, forming a brine water solution with a total dissolved solids content of approximately 300,000 mg/L. Permian Brine Sales, Inc. extracts and sells the brine water solution to various companies for use in oil and gas production.

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

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

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 12th day of November, 1982.

STATE OF NEW MEXICO

QIL CONSERVATION DIVISION

JOE D. RAMEY

Director

	ENVIE OF NEW WEXICO	100		Form_C: 104
.11	ERGY AND MIDITIALS DEFINITION		ATION DIVISION	RECEIVED BY 10-1-78
	FILE V.S.O.B.		W MEXICO 87501	SEP 16 1983
	TAND OFFICE		RALLOWABLE	O. C. D. ARTESIA, OFFICE
	OFE MATUM	A SUTHORIZATION TO TRANS	ND PORT OIL AND NATURAL	
ł.	Cherolot	/		
	B&E Inc.	lobbs New Mexico 88240		
	Reason(s) for liling (CARCA proper box		Other (Plegress in	
	New Well Recompletion	Change in Transporter of:	1 4	EP 21 1983
	Change in Ownership	Casinghead Gas Conde	neole L	
	If change of ownership give name and address of previous owner	Permian Brine Sales, Box		NSERVATION DIVISION 79760TA FE
iI.	DESCRIPTION OF WELL AND	LEASE. Well No. Pool Name, Including F	ormation Kind	of Lease Lease
	State # 24	1 Wildcat	∤ `	Federal or Fee STATE M-1960
	Unit Letter M : 1987	.9 Feet From The S Lir	ne and 1930.4 Fe	el From The
	Line of Section 24 To	enthip 185 Ronge	28E , NMPH,	Eddy Court
1	DESIGNATION OF TRANSPORT	TER OF OIL AND NATURAL GA		
•••	None of Authorized Transporter of Cit			ch approved copy of this form is to be sent)
	Name of Authorized Transporter of Cas			ch approved copy of this form is to be sent;
	If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge.	Is gas actually connected?	When I
ι,	If this production is commingled wir COMPLETION DATA	th that from any other lease or pool,	give commingling order num	ber:
• .	Designate Type of Completic	on - (X) Gas well	New Well Workover De	epen Plug Back Same Resty, Diff. I-r
	Date Spunded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
	Elevations (DF, RKB, RT, CR, etc.,	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
	Perforations			Depth Casing Shoe
		TUBING CASING AND	CEMENTING RECORD	
	HOLESIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
,¹.	TEST DATA AND REQUEST FOOLL WELL	OR ALLOWABLE (Test must be a able for this de	pth or be for full 24 hours)	load oil and must be equal to or exceed top ai
	Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pum	p, gas lift, etc.)
	Length of Test	Tubing Pressure	Cosing Pressure	Choie Size
	Actual Prod. During Test	Oil-Bhis.	Wate: - Bbls.	Gas-MCF
1				
	GAS WELL Actual Frod. Tool-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
	Testing Method (pitot, back pr.)	Tubing Presewe (Shat-is)	Cosing Pressure (Shut-in)	Choke Sixe
\ !.	CERTIFICATE OF COMPLIANC	CE	OIL CONS	ERVATION DIVISION
	I hereby certify that the rules and to	egulations of the Oil Conservation	APPROVED	, 19
ı	Division have been complied with above is true and complete to the	and that the information given beat of my knowledge and belief.	BY	
×	and Rivol	ions &	If this is a request	or allowable for a newly dilled or deepe
2	De atomo	(ω•)	well, this form must be a tests taken on the well	recompanied by a tabulation of the deviet in accordance with RULE 1111.
-	9-12 82	•1	able on new and recomp	
v	4713-83 (Dat	1/	wall name or number, or t	one I. II. III. and VI for changes of ow- ransporter, or other such change of condi- O4 must be filled for each pool in multi-
	•	İ	e wellted vella.	Commence of the state of the st

NEGGY ICT TO MAN YOUR NEGGY ICT TO A CONTROL OF THE	CONSERVATION DIVISIO POLHOX 2088 BANTA FE, NEW MEXICO 87501	N (For - C-1) Revived 12-1-78
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SUNDRY NOTICES A	AND REPORTS ON WELLS	State 24 Well 11
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	ine Well	
P & F Inc.		e. Ford. or Leane Nome
P & F, Inc. Address of Gregorian P. O. Pox 2292, Hobb		9. Well 10 24 #1
Location of Well		10. Field and Fast, or Wildcat
THE LINE, SECTION		FIED PROM
	levation (Show whether DF, RT, GR, etc.)	Eddy
Check Appropriate I NOTICE OF INTENTION TO	Box To Indicate Nature of Notice, Rep. 51	port of Other Data BSEQUENT REPORT OF:
EMPORPRILY ADANDON	PLUG AND ABANDON REMEDIAL WORK COMMENCE DRILLING UPH CHANGE PLANS CASING TEST AND CEMENT	
DIKER	OTHER	
1. Describe Proposed or Completed Operations (Clearly work) SEE RULE 1103.	state all pertinent details, and give pertinent da	tes, including estimated date of starting any proposed
	oulling unit and prepare t D. 660'	to drill back to bottom
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		•

(I hereby certify that the information above is true and com	plete to the beat of my knowledge and belief.	
Phil William	President	2-29-82
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ONDITIONS OF APPHOVAL, IF ANY		DATE

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24-17-28

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Plip Water	TITLE Pr	resident	DATE2-29	-82
18. I hereby certify that the information above	e is true and complete to the best o	of my knowledge and belief.		
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	The report is in the Service, Inc. order	ne Permian Brines Sal r file.	es &	
	Rec'd. report on wo		0	
	5/17/82			
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PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING C	A51NG
Check App	ropriate Box To Indicate N NTION TO:		or Other Data DUENT REPORT OF:	
			Eddy	
THE LINE, SECTION	15. Elevation (Show whether		12. County	
THE East LINE, SECTION				
4. Location of Well VEIT LETTER J 1987			10. Field and Pool, or Wildcat	r Wildcat
P. O. Box 229	2, Hobbs, NM 8824	0	9. Well No. #1	
2. Name of Operator Permian Brine Sales	& Service, Inc.		8. Fam or Lease For State "24"	ne.
1. 01L CAS CAS CALL	CTHER. Prine Well		7, Unit Agreement No.	me
SUNDRY NOT USE THIS FORM FOR PROPOSE	NOTICES AND REPORTS ON	WELLS OFFICE		
OPERATOR /		O. C. D.	5. Stole OI: 6 Gas Le	ase No.
CAND OFFICE	•	APR 29 1382	Sa. Indicate Type of L	Fee
DISTRIBUTION SANJAFE /		X 2088 RECEIVE		Form C-107 Revised 10-1-7
	OIL CONSERVA			

NO. OF COMES RECEIVED	1.3		and the second s	Form C-101
ប់នេះ ម៉េចប្រាល់			RECEIVE	Superscoles Old
SANTA FE	1		MEXICO OIL CONSERVATION COMMISSI	C-102 and C-103 Effective 1-1-65
F 11. C3	11	1	JAN 2 5 1979	
U.S.G.S.			0,11,10,10,10,10,10,10,10,10,10,10,10,10	Sa. Indicate Type of Leaso
LAND OFFICE			O. C. C.	State X Fee
CPURATOR			ARTESIA, DFFICE	5, Stole OH & Gas Leave No.
				M-19609
IDO NET USE THIS F	n	4	C NOTICES AND REPORTS ON WELLS	
1.	T ,, V C+ .		ns for bloods and possed colored to describe the section as sectio	7. Unit Agreement Hame
0. [orace. Bring Water 17.77	T. Com Apr. Lacin Finale
z. None of Operator			Brine Water Well	6. Fun a Lease Home
	Bri	na (State "24"
1. Aldress of Operator	<u> </u>	116 3	Sales & Service, Inc.	9. Well No.
P. O. Bo	x l	591		1
4. Lecation of Well		<u> </u>	TO THE PARTY OF TH	10. Field and Fool, or Valdeet
11017 1 1 1 T T T T T T T T T T T T T T T T		7 0	987. 9 FERT PROMITHE South LINE AND 1930.4 FEET PROM	Wildcat
VAIL ELITER			CINE AND THE THE PRODUCTION OF	MALLE TO THE STATE OF THE STATE
East	LINC. S	ECTION	24 TOWNSHIP 18S RANCE 28E HAPPE	
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		1111	15. Elevation (Show whether DF, KT, GR, ctc.)	12. County
	7777,	777.	3503 G.L.	Eddy
16.	Che	ck Al	ppropriate Box To Indicate Nature of Notice, Report or Otl	ier Data
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PERFORM DEMEDIAL WORK			PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
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PULL OR ALTER CASHIG	ل		CHANCE PLANS CASING TEST AND CEMENT JOB	-
			OTHER	
OTHER				
17. Describe Propered of Co	mplete	d Oper	otions (Clearly state all pertinent details, and give pertinent dates, including	estimated date of starting any propose
work) SEE RULE 1103.				
After comp	l a+i	on ·	30 chorm	
The section of the se	LCCI	011 6	as shown on Form C-105, dated 1-12-79, it	was found that ther
was a hole	in	the	8 5/8" Gasing at 401	· · · · · · · · · · · · · · · · · · ·
			8 5/8" casing at 42'. After consultatio	n with Mike Williams
we squeezed	l th	e ho	ole with 100 sacks of cement containing 3	_
			3 acks of cement containing 3	$^{\sharp}$ CaCl $_2$. We then
dug out the	cei	ment	t from around the top of the 8 5/8" casing	
holo anana			casino	and filled up the
noie around	. the	e ca	asing with 4 yards of concrete mix. We o	Frilled out the
plug and to	c+~	3 ⊥ኬ	ne re-	riffed out the deme
rang and ec	2 6 6 6	. CII	ne casing to 400' with 170# pressure. Met	er on water line
indicated n	0 16	ak.	We then drilled and in	
			We then drilled out the plug at 400 ft.	and tested the
casing and	cave	ern	to 170#. Again the water meter indicated	
			and in the water meter indicated	l no leak. The 2 $7/8$
tubing was	hung	, in	the open hole and the well head reinstal	1-2 5
	<i>;</i> ,			red for service.
R. I hereby certify that dee h	Moune	ton me	ove is true and complete to the best of my knowledge and belief.	
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curn. <u>'-1'</u>	<u></u>		Autr 1/2 Care Control	DAYE
	1	1	SUPERVISOR, DISTRICT U	IAN O A 1070
1,1/1		1211	will purchison, pipinici a	JAN 2_6_1979

COUDITIONS OF AUPDOVAL, IF ANY

" H . OF COPIES RECEIVED	3			Form C-103			
& DISTRIBUTION			Euro kind from	Supersedes Old			
TANTA FE	1,	NEW MEXICO OIL CONS	ERVATION COMMISSION	C-102 and C-103 Effective 1-1-65			
FILE	1, 1			2			
່ ພ.s.G.s.	.s.g.s. JAN 1 5 1979						
LAND OFFICE	1,		O/11 1 0 13/3	State X Fee			
SPERATOR	2		<u> </u>	5. State Cil 6 Gas Lease No.			
	سلحك	J	D. C. C.	M-19609			
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(DO NOT USE THIS F	SUNDK DRO FOR PRO	LY NOTICES AND REPORTS ON DECISION OF DELICE AND REPORTS ON DELICE OF TO DEEPEN OF DELICE SUCTION FOR	WELLS				
251	APPLICAT	ION FOR PERMIT - " (FORM C-101) FOR SUC	H PROPOSALS.)	7. Unit Agreement Name			
OIL GAS		Brine Water	Well	7. Out Agreement Plane			
WELL WEL	<u> LJ</u>	OTHER. BITTLE WATER		S. Farm or Lease Name			
·							
Address of Cyerotor	<u>e Sale</u>	s & Service, Inc. /		State "24"			
1				3. Well No.			
	1, Od	essa, Texas 79760		1			
4. Location of Well			•	10. Field and Pool, or Wildcat			
UNIT LETTER J	<u>19</u>	87.9 FEET FROM THE South	LINE AND 1930.4 FEET FR	Wildcat			
THE East	LINE, SECTIO	on24	HANGE 28E				
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		15. Elevation (Show whether	DF, RT, GR, etc.)	12. County			
		3503 G.L.		Eddy			
47.	Check	Appropriate Box To Indicate N					
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PERFORM REMEDIAL WORK	٦	PLUG AND ARAHOTE	REMEDIAL WORK				
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			other <u>Alter plugg:</u> complete.	ing program and x			
OTHER		L	complete.				
17. Describe Frogosed or C	ompleted Op	perations (Clearly state all pertinent dete	ails, and give pertinent dates, includ	ing estimated date of starting any propose			
work) SEE RULE 1103.							
Cablo to	al ria	morrod in on 12,15-7	O and atambod work	on 12 16 70			
		moved in on 12-15-7					
		rface plug. No plug					
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12-18-78	and r	eceived approval to	plug as follows:	•			
	~ =						
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	50 s	acks - 1000' - 740'					
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		ection @ 660', after	tagging top of cer	ment plug at			
740' on 1				n de la companya de la companya de la companya de la companya de la companya de la companya de la companya de			
When top	of P&	A well uncovered fou	nd old cellar full	of cement; top			
		ng had cement all ar	ound it so no addit	tional cement 🧳 🦿			
put down	casin	g and hole annulus.					
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I hereby certify that the	information	above is true and complete to the best of	of my knowledge and belief.				
. 17	/ /.						
FIGNED	<u>, · /, /</u>	24ct 4) TITLE P	resident	DATE 1-12-7-1			
	<u> </u>						
2	0 6	1. of "	CHDEDVICAR DICTRICTOR **	18. 0.5. 1071.			
ALLHOVED BY //	1, 9,	resset "	SUPERVISOR, DISTRICT II	JAN 2 3 1975			
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CONDITIONS OF APPROVAL, IF ANY

40. OF COPIES RECEIVE	116							Form ©+	
NOI TUÉI RTRID		_]		~ .		ven		hevised	
SANTA FE			NEW M	EXICO OIL CO	NSERVATIO	N COMMISSION	N		Type of Lease
FILE	1	WELL	COMPLE?	TION OR REC			AND LOG	Ctate &	
U.S.G.S.	(Z)	_			JAN 15	1979			5 Tim Lease No.
LAND OFFICE								.M	-19609
OPERATOR		_]			O. C. (.	}		
Ila. TYPE OF WELL					RTESIA, DI			7777777	Millioni.
Id. TYPE OF WELL					_				ement Lame
1 THRE OF COURT	,	WELL .	GAS WELL	E9 Y		Brine Wa	<u>ter Wel</u>	. <u>1</u> -, : ::- or !.	
b. TYPE OF COMPLE			PL HG F	Ti birr. 5	ח				
2. Name of literator	CH X DE	EPEN	BACY	X PESVE X	DTHER	Re-Entry		State	"24"
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Permian B	of the Sa.	res &	Servic	e, inc.	<u> </u>			1	a Enel, or Wildout
i		04044	n Marra	~ 70760					
P.O. Box	1331 (Juessa	a, Texa	15 /9/60				Wilde	3t
1. 2500.101. 0. 1101.							ļ		
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12-15-78 20. Total Depth			T.D.		ple Compl., Ho	3503 G.L	els , hotary		3505 . Cable Tools
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24. Producing Interval.	is) of this com			···ama				10	5. Was Directional Sur
24. Froducing interval.	(S), OI III.S CO	rietic =	10, 5010,	u.ie				4	Made
Top 416'	Bottom	680' 1	Rock Sa	1+					No
25. Type Electric and			noch pu					27 W	as Well Cored
None		•						27,	No
28.			CASII	NG RECORD (Re	nest all string	s set in well)	· · · · · · · · · · · · · · · · · · ·		NO
CASING SIZE	WEIGHT !	D ET	DEPTH		DLE SIZE	·	NTING RECO		AMOUNT BUILT
8 5/8"	24		416'		10"	50s			AMOUNT PULLE
0 3/0			710		<u> </u>	303	<u>^</u>		None
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1540-1400	and a 50	OSx p	lug fro	m = 1000 - 7	401 : hun		in one	n eal+	section @ (
29.		LINER F		111 1000 7	40 Hun	30.		UBING RECO	
SIZE	TOF			SACKS CEMENT	SCREEN		· · · · · · · · · · · · · · · · · · ·	TH SET	PACKER SET
3122	None				JOREEN	2 7/			
					 		00	<u> </u>	NO
31. Perforation Record	(Interval, size	and numbe	er)		32.	ACID, SHOT, I	FRACTURE :	TEMENT SOI	IEEZE, ETC
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,			INTERVAL	· · · · · · · · · · · · · · · · · · ·		·
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33.	······································			PRO	DUCTION		1		
Date First Production	Pr	oduction h	tetho i (Flow)	ing, gas lift, pun		nd type pumpj		Well Status	(Prod. or Shut-in)
				, .		- ,,			<i>,</i>
Date of Test	Hours Tester	d [C]	icke Size	Frodfn. Per	011 = F61.	Gas = 1110	OF . Wate	1 r = Fel.	Gas - Oil Fatio
				Test Period					
Flow Tubing Press.	Casing Fres		alculated 14-	Cii = 5ci.		MGF V		011	Gravity - AFI (Corr.)
			our Pate	1		ļ	•		
34. Disposition of Gas	Sold, used for	fuel, vent	red, etc.)	1			Test	Witnersed P	у
35. List of Attachment	5								
		_							
36. I hereby certify tha	t the information	on shown o	on both sides	of this form is t	rue and comple	te to the best o	f my knowled,	er and belief.	
	. /	,			•	•		,	
	427	. 11.	140-0		Presid	dent		/	-12-79
SIGNED			, <u>.</u>	TITLE				DATE/_	e •• /

INSTRUCTIONS

This from is to be fived with the mirritary a tetrat Office of the Commission not later than 2000 to after the completion of any newly-drilled or deep east well. It shall be also made by one only of all electrical ridicity of twilly be some on the well mid a summary of all special tests consucted, inclining little stem tests. All doctors for itself the missioned derives the case of directionally inflict wells, true vertical depths shall also be rejected. For multiple considering, Items of through 34 shall be reported for each cone. The form is to be filled in quintuplicate exception state 1 mid, where six copies are required. One half 1105.

INDICATE FORMATION TOPS IN CONFORMANCE MITH GEOGRAPHICAL SECTION OF STATE

Northwestern New Mexico

Southeastern New Mexico

T. Anhy	S		T.	Canvon		T Ojo Al	Jamo		T.	Penn. "B"		
T. Salt		T Strown								T. Penn. "C"		
B. Salt			т.	Atoka		T Pictur	ed Cliffs		T. Penn. "D"			
T. Yate	٠,		Miss	,	T. Cliff House			т.	Leadville			
T. 7 R1	ivers T. Devonian					T. Menef	···		T.	Madison		
T. Quee	.n		Т.	Silurian	 .	T. Point	Lookout		T.	Elbert		
T. Gray	huri:		Т.	Montoya		T. Manco	٠		T.	McCracken		
T. San	Andres _		T.	Simpson		T. Galluj			T.	Ignacio Quate		
T. Glor	reta Bise Greenhein					T.	Granite					
T. Pade	anck		Т.	Ellenburger		T. Dakot	ā		Т.			
T. Blin	ebry		Т.	Gr. Wash		T. Morris	n		т.			
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OIL CONSERVATION DIVISION ARTESIA DISTRICT OFFICE

ACACOGA YRRBL

NICK FRANKLIN SECRETARY

December 29, 1978

P.O. DRAWER DD ARTESIA, NEW MEXICO 88210 (505) 746-4861

Permian Brine Sales & Service, Inc. P.O. Box 1591
Odessa, Texas 79760

Re: State 24

#1-J-24-18-28

Eddy County, N.M.

Gentlemen:

We are returning the enclosed Form C-103 on the subject well for additional information.

Please show when work was started, and if plug was tagged at 740' and how you cemented behind the 85/8" surface casing.

Also, submit Form C-105, Well Completion Report and Log.

If you have any questions concerning this matter, please feel free to call upon me.

Sincerely yours,

W. A. Gressett

Supervisor, District II

WAG:ro

Enclosure

N . OF COPIES RECEIVED			Form C-103
DISTRIBUTION		•	Supersedes Old
SANTAFE	NEW MEXICO OIL CON	SERVATION-COMMISSION E	C-102 and C-103 Effective 1-1-65
FILE		E I	D Emective 1-1-63
U.S.G.S.		0500	5a. Indicate Type of Lease
LAND OFFICE		DEC 28 1973	State 🔀 Fee
DPERATOR			5. State Oil & Gas Lease No.
	,	J. C. F.	M-19609
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Name of Cylerator			8. Farm or Lease Name
PERMIAN BRINE	SALES & SERVICE, IN	YC.	STATE "24"
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P. U. BOX 159	l, Odessa, Texas 79	9760	10. Field and Pool, or Wildcat
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i hereby certify that the information	above is true and complete to the best	or my knowledge and belief.	
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- Y- C/ 65	1116-63 THE	President	DATE 12-27-78
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CONDITIONS OF APPROVAL, IF ANY:

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PERMIAN BRINE SALES & SERVICE, INC.

24-HOUR BRINE SERVICE THROUGHOUT THE PERMIAN BASIN

ODESSA, TEXAS

P. O BOX 1591

79760

PHONE 332-0531

RECEIVED

NOV - 8 1978

November 7, 1978

O. C. C. ARTESIA, OFFICE

Mr. W. A. Gressett New Mexico Oil Conservation Commission Drawer DD 88210 Artesia, New Mexico

Re: Brine Water Well

Sec 24, T185, R28E

Dear Mr. Gressett:

Attached are copies of Form 103, requesting a 90-day extension of the re-entry approval which expires November 7, 1978.

We have not yet received final approval of the easement for the fresh water line to the brine well. I hesitate to proceed with the work on the well until I am assured of a supply of fresh water.

Your approval will be appreciated.

Very truly yours,

PERMIAN BRINE SALES & SERVICE, INC.

A. L. Hickerson

President

ALH/clo

cc: B & E, Inc. Hobbs, N.M.

Attachments

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DISTRIBUTION	6	NEW	WEXTCOOF COUSE	OF E.C.E.LY	ED		
SANTA FE	1	REC	ELAE Duze	R AX 149 W-COMMUSIC	ON	Form C-101 Revised 1-1-	65
FILE /				AUG - 1 19			e Type of Lease
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LAND OFFICE				©. C. C	•	1	6 Gas Lease No.
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DRILL]		DEEPEN Re-	-Enter & PLUG	BACK X		
b. Type of Well	1						_ease Name
2. Name of Operator	0.:н	ER Brine	e Water Well	ZONE LX	ZONE	Stat	e "24"
Permian Brine	Sales	s Saru	ico Ing			7	
3. Address of Operator	DOTES	M DETA	rce, inc.		<u> </u>	10. Field a	nd Pool, or Wildcat
P.O. Box 1591	Odessa	Texa	s 79760			Wildo	at
4. Location of Well		<u>;</u> roc	ATED 1987.9 F	EET FROM THE SOUT	LINE		
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21. Elevations (show whether DF,	RT, etc.)	21A. Kind	& Status Plug. Bond 2	680 IB. Drilling Contractor	Salt	22. Approx	C.T.
3503 G.L.		One T	Well- 5,000	Not Selected	d Yet	1 AW	, ₹ 25, 1978
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PPROVED BY	ness	W.	TITLE SUPERVI	SOR, DISTRICT II		ATE A	UG - 7 1978
ONDITIONS OF APPROVAL, IF	ANY:						, ·

Notify N.M.O.C.C. in sufficient time to witness Comenting a scattery plugs

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INDITIONS OF APPROVAL, IF ANY:	DATE	

Notify N.M.O.C.C. in sufficient time to witness Commenting + spotting plugs

Company Mix	Re CHARTE				
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Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Permian Brine Sales & Service, Inc State Unit Letter 24 18 South 28_Eas Actual Footage Location of Well: 1987.9 line and 1930 a set from the South Ground Level Elev. Producing Formation Dedicated Acreage: 3503 Salt Wildcat Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation __ Yes DNA If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Re-Entry of Nix & Curtis Gulf State No. 2 Survey Attached I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No.

1320 1650 1980 2310

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NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

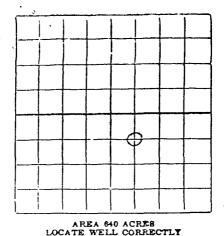
Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

		he work was witnessed	I by an agent of the Commis	sion. See additional
	Indicate Nature of R	eport by Checking Be	elow	
REPORT ON BEGINNING DRILLING OPERATIONS			REPORT ON REPAIRING WELL	:
REPORT ON RESULT OF PLUGGING WELL	REPORT ON RECOPERATION	COMPLETION	REPORT ON (Other)	
•	Kay (Dat	20 , 1955	Artesia, New Mexi	(Piace)
Following is a report on the work	done and the results obtain	ed under the heading i	noted above at the	
Ralph Nix and Jerry C	urtis	Gul	Lf-State-#2	
(Company or Ope Roach and Shepard	rator)		(Lease)	
T 18S R 28E NMPM U	ndesignated —	Pool	Eddv	County
T.D. 3009'. Used D Pumped 15 sax cement Pumped mud back to Pumped mud to 420'	centon Cementing Control on bottom back to 2350 and pumped cand cement from 42	ty from Mr. Hand Resumpany. 2965!. ement from 2350	nson. LTS OBTAINED	, 19 ,
Witnessed by C.E.Roach (Name)	Roach an	(Company)	Co-owner (Title)	is town and symplets
DRILLING OPERATIONS REPORT ON RESULT OF PLUGGING WELL REPORT ON RECOMPLETION OPERATION May 20,1955 Artesia, New Mexico OPERATION Report on Recompletion OPERATION May 20,1955 Artesia, New Mexico OPERATION Report on Recompletion OPERATION Report on Operator Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION OPERATION Report on Recompletion OPERATION Report on Recompletion OPERATION OPERATION Report on Recompletion OPERATION OPERATION OPERATION Report on Recompletion OPERATION OPERA				
Will the state of	· 02875	Name	Cuita	
(Name)		Position CO-01		
		Representing Ts	alph Nix & Jerry Cur	4.1.8

(Date)

Address Box 605, Artesia, New Mexico

(Title)



NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

WELL RECORD

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

If State Land submit 6 Copie

Company or Operator) (Lease) Well No. 2 - in 17 1/4 of 15 1/4, of Sec. 21 T. 185, R. 25 NMPM. <u>Uniesiantea</u> Pool, <u>Lily</u> County. Well is 1933 - feet from South line and 150 - feet from 155t line of Section 24. If State Land the Oil and Gas Lease No. is 1595. Drilling Commenced Mcrch 19 19 55 Drilling was Completed April 29 19 55 Name of Drilling Contractor. South & Phanest Address Artesia, New Yewica Elevation above sea level at Ropent Poline Heater round 3503. The information given is to be kept confidential until OIL SANDS OR ZONES No. 1, from 929 to 930 No. 4, from to No. 2, from 2325 to 2315 No. 5, from to No. 3, from 2923 No. 6, from to IMPORTANT WATER SANDS Include data on rate of water inflow and elevation to which water rose in hole. No. 1, from 225 to 24.5 feet. No. 2, from 2335 to 2345 feet. No. 3, from 3004 to 3009 feet: CASING RECORD

SIZE WEIGHT NEW OR USED AMOUNT SHOE CUT AND PERFORATIONS PURPOSE 8 5/8 Used 116 WT Shot-off

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METROD USED	MUD GRAVITY	AMOUNT OF MUD USED
10	8 5/8	416	50	Denton		

erc of drill-surh and special tests

If drill-stem or other special tests or neviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

						feet to	
Cable tools we	ere used from0	feet to	3009	feet, and from		feet to	fcet.
			PRODU	CTION			
Put to Produc	ing	•••••	, 19				
OIL WELL:	The production duri	ng the first 24 hou	ers was	barrels	of li	quid of which	
	was oil;	% was er	nulsion;	% water; ar	nd		diment. A.P.I.
	Gravity						
GAS WELL:	The production duri	ng the first 24 hou	ırs was	M.C.F. plus			barrels o
	liquid Hydrocarbon.	Shut in Pressure	lbs.				
Length of Ti	me Shut in						
				FORMANCE WITH G	roc.	RAPHICAL SECTION OF	F STATEN.
		theastern New M				Northwestern New M	
T. Anhy		т.	Devonian		T.	Ojo Alamo	••••••
T. Salt	357	т.	Silurian		Τ.	Kirtland-Fruitland	
B. Salt	<u> 490</u>	т.	Montoya	***************************************	T.	Farmington	
T. Yates		т.	Simpson	***************************************	Т.	-	
T. 7 Rivers	***************************************	т.	McKee	***************************************	Т.	Menefee	•••••
T. Queen	. 1000	Т.	Ellenburger		Т.	Point Lookout	***
-			•		T.	Mancos	
T. San Andr	es 25.3	T.			T.	Dakota	
T. Glorieta	*************	т.	***************************************		T.		
T. Drinkard.						Penn	
T. Tubbs						***************************************	
T. Abo		T.	******************		Τ.		

FORMATION RECORD

enalmental di	*	Formation	S comments	<u> </u>	Toger 14.4 cm
j	£	Calicha	2 20		.
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<u>;</u> 5	62	Gravel	27.50	2203	ីស្ថាលៃ រ៉ាំរ៉ូ us
15 52	99	n.Beds	2803	2020	υ #.νώ (*) <u>ΙΔ.</u> 16
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111	220	eled.Deds	2829	2036	may the second of the second o
225	250 250		2036	2850	Dark lime
	250	Send & Gyp. (wtr. 225-245)	2050	2921	r. line (Tested 1 :
.そ) よこり		E.Seds			10 1/3 (v1.vtr.)
	5390	Gr. shale	2921	2035	Or. curl oline
	335		2935	2753	Cr. line
2.5	<i>د'. د</i>	C.Decs & gyp	2953	29.55 29.60	
; ;	377	ം∴ ടർ ട	~///	70 y 0 0	Tire(Test 30 :dn-
AND THE	300	2634			20 tal.atm.)

250	250	F. Seds			303/0
260	290	Cr. shale	2921	2935	18 1/3 (01.5tr.) Cr. and 11 (
1 290	335	R.Bed educe hole at 309!)	2935	2953	Cr. Line
, 335	390	R.Deds to gyp	2953	2960	Line(Tout 3. win-
350	397	E.Deds		,	20 (%1.%%)
397	C53	Selt	2960	2971	Gr. line
630	865	Anhy	2571	2933	Line(Tester a br
265	905	Man Amby		, ,	17 gelator. No
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1045 1040	10.0 13.5	F12 • 10.24200	0 120		salt wtr.)
1 355	13	Ani o ocho	3 009	-	T.F.
1330		1.3 - (Samueta i medeura unt-			
		19-1-19-3) -en 1-11 1402-1404			
1415	11.50	Saying			
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10.3	1785 1720	Anhy			
1713	الىنىدۇنى <u>د</u> چىرىچ	ākm.enhy Anhy			
13,	1335 1355	Many word (Throng and Total Total)			
10%	15.05	Rad sand (Strung in 1850-1854) Brn.line Renhy			
	1.33	Mary Mary			
<u>1</u> 635	1,90 2001	Admy Test id-month.)			
2000	2020	r. lime			
2020	2030	. मेंपू			
2030	2053	Arin A lime			
2055	3008	Anhy			
2075	2090	Line			
2080	2110	Pink lime			
2110 2110	2170	Bkn.enhy			
21.50	21.50	inhy			
2130	21.50 21.76	Fink s.lime			
2176	2215	Pink lina Gr. lima			
2215	2205	or. and A.P.			
2225	234.2	Or. line("brow, in 2271-1277)			
2325	13 (3 23) 3 53) 3	(Conj. 11)			
2335	251 5	Gr. sani(serted 30 min-			
		1' gil. tr. Light show oil)			
2345	2343	Vend		•	
2343	2/1/	Gr. line			
247.0	3/43	Gr. sandy line	*		
21.20	21.35	Gr. lime			•
2:35	2410	Gr. sandy line	•		
21.40 21.58	2453 2480	Gr. lime			
2700	2503	Fink line Gr. line			
2503	2315	Mink samly line			
251.5	2545	Fink & gr. line			
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2554	2554 2563	Gr. lima(1 hr.test_			
0710	A =	15 psl.utr.por hr.)			
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2000	2625	Fink line			
2025 2020	2650 2670	Pink or. line			
1 .611)	2575 2575	Thite line			
	2705	Cr. lime Thite line		*	
) ^E .	2709 2700	Cr. lina			
					<i>E</i>

_ CountyE	ddy lagra 3000 Fiel Undesignated* (Nichols)
NEW M	SULTA - LEGRY ÆLIGO CIL GULAMSVARIGN GOM MESLICN
· Nix & Curtis	World No. 2 Grane Gulf State
1988' S. Line	1930 E 122 24 75. 188 77. 28E
7,2	State Roach & Shepard
	3 50 7 7 8 1 3-19-55 Constant 5-11-53
	F.3. In all leaves The states 7
1850	Hrs. Inch Ft.
2,243	
1 -1/6 501	
	2. 3.3. 2. 3.5 2. 2.16
The second secon	5 9 920-30
March 23, 1955 Drlg. 380°	R.B.
J 380 0	
9 1520	
2.4. 2.167° Q 2.863	
172 3009	i di
2000, 10	co'sul wtr



MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

instructions in the Rules and Regulation	ons of the Commission.			
	Indicate Nature of	Report by Checking Be	low	
REPORT ON BEGINNING DRILLING OPERATIONS	REPORT ON R	ESULT OF TEST	REPORT ON REPAIRING WELL	İ
REPORT ON RESULT OF PLUGGING WELL	REPORT ON RI OPERATION	ECOMPLETION	REPORT ON (Other)	:
	1)	Karch 25,1955	Artesia, New	icrico
Following is a report on the worl	k done and the results obta	ined under the heading n	oted above at the	
Ralph Nix and Jerry Cu	rtis perator,		Gulf-State	
Roach and Shepard	סדי)	, Well No2	in the	of Sec24,
T 188 , R 28E , NMPM.,				
The Dates of this work were as follows:	Ran pipe 3-22-55	and drilled out	3-24-55	
Notice of intention to do the work	🏅 (was not) submitted on F	Form C-102 on		19
and approval of the proposed plan (wa from Mr. Hanson after he DETA T.D. 416 set. Top salt: On March 22, cemented 41 On March 24, drilled out	was notified by particle account of words 397. Water at 240 6 ft. of 8 5/8" cs	chone. RK DONE AND RESU eg. with 50 sax.	LTS OBTAINED	on obtained
		•		
		,		
Witnessed by E.J. Shepard (Name)	Roach &	Shepard (Company)	Partner (Title)	
Approved: OIL CONSERVATION	COMMISSION	I hereby certify the	at the information given above is knowledge.	true and complete
(Name)	0	·····	ylauto	
(mer	
	•	RepresentingIL	x & Curtis	

(Date)

Address Box 605, Artesis, New Merico

NOTICE OF INTENTION TO DRILL OR RECOMPLETE

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in QUINTUPLICATE. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

	Artesia	, New Mexico			March 1	7,1955	······································
SANTA	FE, NEW M	ON COMMISSION EXICO			(Batt)		
Gentleme				- (Deilling) (Color	TOTAL OF A WALL TO	. h. h. a	
You			r intention to commence the Caretis				
••••••	terrior	LA. SIRI. U.SIRY.	Curtis (Company	or Operator)	••••••	·····	***************************************
	Gulf_St	ate		, Well No	, in	J	The well is
			South				
rocated	Rost.	reet from the	line of Section	2 L T	18S R 2	.8E N	MPM
		FROM SECTION		ed Pool			
(GIVL)	LOCATION !	I KOM BEOTION	If State Land the Oil a				•
	1		If patented land the or				
D	C	B A	Address				
			We propose to drill we			• • • • • • • • • • • • • • • • • • • •	s to T.D.
			•				
E	F	G H	The status of plugging	bond is Statewi	de bond.		
				bond is			
L	K	d I	Drilling Contractor				
			J				
M	N	O P	We intend to complete				****
L		<u> </u>	formation at an approx				
				PROGRAM			
We	propose to use	e the following strin	gs of Casing and to cement t				
Si	ze of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth		Sacks Cement
	7.04	8 5/8	2h	New	34		Set
	10n	8 3/8					
		5 1/2	15½	New	290	3	50
			<u> </u>		<u> </u>		
If c	hanges in the	above plans becom	e advisable we will notify yo	u immediately		1	
			If recompletion give full de	-	-f1- \		
			advised as to cor			iny chang	e s
		dpe program.				•	•
	Ground	Elevation 35	103 1	•			
Approve	d		19	Sincerely yours,			
	s follows:		,	Ralph Nix	& Jerry Cur	iis	
					& Jerry Cur (Company or Company)	Operator)	1,20
				By	e was		
	OII	NSERVATION CO	MOISSIMM	Position Co-	wner		
/		MJERVATION CO	NATHER SOLON		d Communications	**	
Ву	(1. <u> </u>	-	22-20		Curtis		
mn: 1					05		
Title				Artes:	laNewHexi	CO	

Company Nix & Curtis	
Lease Gulf State	Well No. 2
Sec. 24 T. 18 S., R 28	E., N.M.P.M.
Location NW1SE1(1987.9: from South Li	ne & 1930.4° from East Line)
County Eddy,	New Mexico
Chained Distances 5143.4	
	·
21-7214 Sec. 24 12567	_ 1 ~ 1
•	- N. 36.4 - N. 36.47
	7 7
 	3
	25 N
	3/ 82 N
	T185-R28E
Scale $4'' = 1$ mile. $5/5/6$.	$ \uparrow \qquad \qquad \downarrow \qquad$
This is to certify that the above plat was prepare of actual surveys made by me or under my super	ed from field notes R29E
same are true and correct to the best of my known	
	- 7
Seal: Registered P	this p
Artesia, New Mexico	nd Surveyor.
Surveyed March 16, 1955	
17532 Advocate Print	

m. Hickerson

This would be my recommendation

for prepairing this well

for a Brine Supply well.

BillGresset

Bond # 610 031537 1
approved 7-27-78
5000'

coment around 89; dentare.

ung little plug @ 400.

good pie @ 1500; selid

to run Ung to 1500; spot 355;

Pick up to 1050 y god 50 2755 x

ok go sheed.

NO. OF COPIES HECEIVED	ì					
DISTRIBUTION	NEV NEV	N WE KO EO E CENSE	M.F.D comics	ION		
ANTA FE		T MEARCO-OPE CONSE	MY AMIOM COMMISS		Porm C-101 Revised 1-1-	-65
ILE		110 10	1070	j	5A. Indicat	e Type of Lease
.s.g.s.		JUL 18	1978	1	STATE	X FEE .
AND OFFICE			•		5. State Off	& Gas Lease No.
PERATOR	<u>.</u>	0. 0, 0			M-19	609
		ARTEBIA, DI				
APPLICATION Type of Work	ON FOR PERMIT TO	DRILL, DEEPEN,	OR PLUG BACK		7 Unit Am	Pement Name
	-				7. Oilt Agr	rement Rame
Type of Well DRILL	J	DEEPEN Re	-Enter & PLU	G BACK X	8. Farm or I	Lease Name
OIL GAS WELL WELL] Olive Bri	ne Water Wel	SINGLE V	AULTIPLE ZONE	State	
Name of Operator	J D. 1	HE MUTET MET	1 2045 5.70	20%	9. Weli No.	
Permian Brine	Sales & Serv	ice. Inc.				1
Address of Operator					10. Field a	nd Popl, or Wildcat
P.O. Box 1591	Odessa, Texa	s 79760			Wi	ldcat
Location of Well UNIT LETT	ER M LO	EATED 1987.9 F	EET FROM THE Sout	hLINE		
			_			
1930.4	TTT East	**************************************	**************************************	185 mmm 1885	12. County	militiilii.
44444		/////////////////////////////////////	/////////////////////////////////////	///////	Eddy	
	<i>#########</i>		9. Proposed Depth	19A. Formation	7:77/	20. Rotary or C. F.
			680	Salt		C.T.
Elevations (Show whether DI		& Status Plug. Bond 2 ell - 5,000	113. Drilling Contractor	r	22. Approx	c. Date Work will start
3503 G.L.	one w	000 2726-8	Not Selected	Yet	Jul	y 25, 1978
	10-5-1	PROPOSED CASING AND	CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT DED FOOT	T CETTING DEDT	11 64 016 05	00.45.47	
10"	8 5/8	WEIGHT PER FOOT	416	50 sx		Sealed Off Wat
.:	0 3/ 0	2711	710	- 30 SA		Dealed Oll Wa
*	1	1	İ	1		l
e propose to re ell, clean out alt at 680; set crculate fresh	the surface a & 0' cemen	plugs and mud t plug, hang	d to 7 00', 2 2 7/8" tubi	0' below ng in th	the b	ottom of the
Coment to su	1. 1.1.	0 5/2" the	41 1"			
	gree verino	0 18 4-4	7	10 : 0	1.00	ر م
hack plug rep	orted @ 232	o y not as	reported	flug a	· jacc	
led a 35 51	4 Phus 228	0- 230D		J		·
Spend a 35 5/	100					
· · · · · · · · · · · · · · · · · · ·	180	- 1700	•			
11 11 35 5 K	(,, 8 8 0	- 980				
	_					
	,					
OVE SPACE DESCRIBE PE	RÓPOSED PROGRAMI IF	PROPOSAL 15 TO DEEPEN OF	PLUG BACK, GIVE DATA	ON PRESENT PROD	UCTIVE ZONE	AND PROPOSED NEW PRODUC-
by certify that the informati	on above is true and com	plete to the best of my kn	pwiedge and belief.			
	Clothalen	1	1	D	ace <u>7</u> -	17-78
(This space for		, , , , , , , , , , , , , , , , , , ,			X-	
trum alma lin	· · · · · · · · · · · · · · · · · · ·					
OVED BY		TITI F			ATF	
NATIONS OF ADDING AT 15	· AND.			,	~ ! ~	

* as noted

NVENTURY OF SOLUTION MINING WELLS OIL CONSERVATION DIVISION, 1701	<i>,</i> —
= please attach pertinent documents	
. OPERATOR / LOCATION INFORMATION	
Operator Permian Brine Sales	
Address P.O. Box 1591, Opessa Tx. 79760	
Phone 1-915-332-0531 His	i. ickers
Well unit # 1 Lse. St. 24 Location 1987.9 FSL & 1930.4 FEL.	
T. 18 5 R. 28 E Sec. 24 NE 1/4 NW 1/4 SE 1/4	Ut.
	341
Purpose of well (brine supply, LPG storage, potash dissolution)	1 ~
BRINE SUPPLY	
I. DRILLING / SITING INFORMATION	
Contractor ROACH & SHEPARD ARTESIA, NM. NO LONGER A CO.	
Date drilling started 3-43-55 Date drilling completed 5-4-55	
Drilling method CABLE TOOL	
Elevation of ground surface 3503 How measured SURVEYED: 1) Eng. (sue) - Tra	nround ansi+
Date measured 3/16/55 Order of survey	-
Name of surveyor JOHN A. MATHIS . C-102 FILED FOR RE-ENTRY OF NIX- CUIETIS	GUL
lotal depth of hole *PB To 740'.	
Attach schematic of well ,include open hole interval, perforations, etc. *	
Type of drilling fluid	
Type of drilling mud if used (brand if known)	
List any additives to the drilling mud, or any other chemicals put down well:	
Describe casing tests performed Fluid shut off 170 No leaks indic. by meter.	.
csq. tested to 400'. Csg. & cavern lested to 170 # No leak.	
Other tests	

- * = please attach pertinent documents
- II. DRILLING / SITING (continued)

Casing, tubing, and cementing record (please attach copy)*

Note: if a copy is not available detail casing record on back of this sheet using the following format. Include brand or type of cement if known.

From	To	Size of	Size of	Weight per	Sacks of	Estimated
		Hole	Casing	Foot	Cement	Top of cmt.
Was mu	dcake	on bore w	all removed	d before cement	ing productio	n casing?
Was sa	lt sat	curated ce	menting mat	erial used opp	osite salt fo	rmation? <u>No</u>
					•	o explain. _{Yes}
Produ	cing 1	Vorroni Gas	Mell HEYCO	TRAVIS ZA ST. CO	M # 1 H-Z4-18	-28, Anadarko Prod. Co.
Turkey	Track	51. Com.# 2	F-25-18-28	(SI) MORROW GAS	WELL . Anadarto	Mobil St. # 1 F-24-18-28
	ra 2450 repara		crete pad,	graded dirt, p	it, etc)	Graded Dirte calich
·	·		, ,		-	
						·
Type o	f suri	face seal (or well_hea	ıd (lockina sec	uritv cap. we	lded, etc.)
.,,,,		•		SEE ATTACH		
		·				
		·			<u> </u>	of circulation,
				centralizers	-	·
	•) Wtr. @ 225		•
utr.	@ 23	35-45,	2554-63,	2850-2921, 2	953-60, 20	71-2983 3004'-09
bele	FUI	of Sal-	- H2O.			
						
		· · · · · · · · · · · · · · · · · · ·				
	····-					
				(use back of s	heet if more	space is required)
ĺ	Dr. Hed	0 12 2	steps in) 955 (TO 3	opingo (poo	ed In 20 890
1	R	tul i	~ 19 76;	and the second	- Found ph	ench to 740
•		montel of	m 1955)	JUTIM Nets	regger	encl. To 740
•		A. C.	. /	2	V 00	
	Len	h at 4	2 unoi			

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well,

result of well repair, and other important instructions in the Rules and Regulations	operations, even though t			
·	Indicate Nature of R	eport by Checking B	elow	
REPORT ON BEGINNING DRILLING OPERATIONS	REPORT ON RE		REPORT ON REPAIRING W	ELL
REPORT ON RESULT OF PLUGGING WELL	REPORT ON RECOPERATION	COMPLETION	REPORT ON (Other)	
	May (Da	20,1955	Artesia, New	Mexico (Place)
Following is a report on the work d	lone and the results obtain	ned under the heading	noted above at the	
Ralph Nix and Jerry Cu	rtis	Gu	lf-State-#2	
(Company or Opera	ator)		(Lease)	
Roach and Shepard (Contractor)		, Well No 2	in the	SE 1/4 of Sec. 24 -
T. 185 , R. 288 , NMPM., Un	_	Pool,	Eddy	County,
The Dates of this work were as follows:	May 14.1955			
f			•••••••••••••••••••••••••••••••••••••••	/
Notice of intention to do the work ((was not) submitted on Fo	rm C-102 on		, 19,
and approval of the proposed plan (was)				;)
and approval of the proposed plan (was)	(was not) obtained.			
DETAIL	ED ACCOUNT OF WOR	K DONE AND RESU	LTS OBTAINED	
T.D. 3009'. Used De Pumped 15 sax cement Pumped mud back to 2 Pumped mud to 420' a Mudded to top and ce	on bottom back t 3501 and pumped on and cement from 42	2965'. ement from 235	0 to 2320.	
·				
•				
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Witnessed by C.E.Roach	Roach ar	d Shepard	Co-owne	*
(Name)		(Company)		(Title)
Approved: OIL CONSERVATION CO	OMMISSION	I hereby certify the		above is true and complete
Xa Thomas	ser.	Name On	Custi.	
(Name)		PositionCo-o		
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BIL THU CTE WEEK. T.	JIII 19 165F	-	alph Nix & Jerr	•
(Title)	(Date)	Address BOX	605, Artesia, N	ew wext co

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OPERATOR /				O. C. C.		M-19	I
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Permian Brine 3. Addiese of Operator	Sales & S	Servi	ce, Inc.		·	n Field on	d Pool, or Wildcat
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P.O. Box 1591						Wilde	mmm
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				680	Salt		C.T.
21. Elevations (Show whether DF	RT. etc.) 21/	A. Kind &	Status Plua, Bond	21B. Drilling Contractor	Sail	22 Approx	. Date Work will start
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Notify N.M.O.C.C. in sufficient time to witness Comenting a spotting plugs

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U.S.G.S.		DEC 28 19	5a. Indicate Type of Lease
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		J. C. C	M-19609
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	ERINE SALES & SE	RVICE, INC.	STATE "24"
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P. O. B	ox 1591, Odessa,	Texas 79760	<u> </u>
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PERFORM REMEDIAL WORK	PLUG	AND ABANDON REMEDIAL WORK	ALTERING CASING
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		OTHER Alter pl	ugging program and X
OTHER		complete	
17. Describe Proposed of C work) SEE RULE 1103	Completed Operations (Clearly sta.	te all pertinent details, and give pertinent dates	, including estimated date of starting any proposed
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1". I hereby certify that the	information above is true and cor	uplete to the best of my knowledge and belief.	
17/	4 , /		
	LICIOENJEUN	TITLE President	10_07 70
NICHED TO THE		TITLE President	DATE 12-27-78
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Describe Proposed of Compiled Committees In the secret of the control of the cont	. OF COPIES RECEIVED	4				Form C-103	
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TONED A MILA WILL President DATE 1-12-79	of 8 5/8"	C	asi	ing had cement all a	round it so no additi	of cement; top onal cement	War A
TONED A MILA WILL President DATE 1-12-79			•		·	~ h	1
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The state of the s	//////	/		/		•	
11) a Grant SUPERVISOR, DISTRICT II JAN 2 3 1979	TONED A	1 <u>/</u> 3.	Ki.	eraces me_	President	DATE 1-12	-79.
	7,11	2	 S	honest	SUPERVISOR, DISTRICT II	.IAN 2 3	3 1979

CONDITIONS OF APPROVAL, IF ANY

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24. Producing Interval(s), of this	completi	on — 7	Cop. Botton	n, Name							2	5. Was Directional Survey Made
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28.					SING RECO	DRD (Ren	oort all string	. set	in well)	··—			NO
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31. Perforation Record (Interval, s	ize and	numbe	·r)			32.			FRACTUR	E, CEMEN	T SQU	EEZE, ETC.
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33.						PROD	UCTION						
Date First Production	·	Froduc	tion M	lethod (Flo	wing, gas l		oing - Size ar	id typ	ре ритрј		Well	Status	(Prod. or Shut-in)
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Date of Test	Hours Te	sted	Ch	icke Size	Pred'n.		CH = Bbl.		Gas - M	OF V	ater = Bbl		Gas - Oil Fatio
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34. Disposition of Gas (Sold, used	for fuel	, vent	ed, etc.)						T	est Witnes	sed By	,
35. List of Attachments	,	/								•		-	
26 / 1 - 1 - 2 - 2 - 1 - 2	/ /		<u></u>								;;		
36. I hereby certify that	iae injoem	ation sh	OUT O	n Doth side	s of this fe	orm is tri	ie and comple	re to	the best o	oj my know	redge and i	belief.	
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SIGNED ANX	1774	700	14	ryn	TIT	LE	Presid	uen	. C		DATE	<u></u>	-12-79

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DISTRIBUTION		 	ł		<u> </u>		C-102 and C-10	
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14. Location of Well							10. Field and l'oul,	or Valdent
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16.	Che	ck A	ppropriate Box Te	Indicate N	lature of Notice, Repor	r or Oil	er Data	
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PULL OR ALTER CASING	_}		CHANGE P	LANS	CASING TEST AND CEMENT JOB			
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OTHER				[7]				,
17. Describe Proposed or C	omplete	q Ober	rotions (Clearly state al	l pertinent deta	ills, and give pertinent dates,	including o	estimuted date of sta	iting ony propose
work) SEE RULE 1103.	•							
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NEW EXICO OIL CONSERVATION COMMON Santa Fe, New Mexico

MAR 2 6 1955

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below REPORT ON BEGINNING REPORT ON RESULT OF TEST OF CASING SHUT-OFF REPORT ON REPAIRING WELL DRILLING OPERATIONS X REPORT ON RESULT OF PLUGGING WELL REPORT ON RECOMPLETION OPERATION REPORT ON (Other) March 25,1955 Artesia, New Mexico Following is a report on the work done and the results obtained under the heading noted above at the Ralph Nix and Jerry Curtis Gulf-State (Company or Operator) Roach and Shepard (Contractor) T. 188, R. 28E, NMPM, Undesignated Pool, Eddy County. The Dates of this work were as follows: Ran pipe 3-22-55 and drilled out 3-24-55 and approval of the proposed plan (was) (was not) obtained. Notice given on form C-101 and permission obtained from Mr. Hanson after he was notified by phone.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED T.D. 416 set. Top salt 397. Water at 240.
On March 22, cemented 416 ft. of 8 5/8" csg. with 50 sax.
On March 24, drilled out cement and tested. Had water shut off. Witnessed by E.J. Shepard Roach & Shepard (Company) Partner (Title) I hereby certify that the information given above is true and complete OIL CONSERVATION COMMISSION to the best of my knowledge. Name Juny Courts Position...Co-owner Representing Nix & Curtis 140 9/8 MSPECTOR (Title) Address...Box..605, Artesia, New Newloo



* = please attach pertinent documents

III. FORMATION INFORMATION

		Formation Record	_
From To	Thickness	Formation (name,	description)

SEE ATTACHED FM. REPORT.

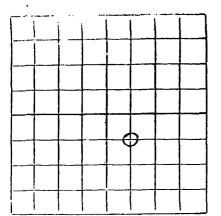
OFFSET	(Gamma ray-Neutron on Simms/Re	ese Gulf St. #1	330FSL/330FEL.	24-18-28
10 10.	Ti> 2324' (lager)		. <i>'</i>	
	Identify where logs are on file	MOCO ARTESIA.		

rec) of drill-stem and special tests

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

tools were used from	feet to	3009	feet, and	d from	f	eet to	
		PRODUC	OTION			÷	
Producing	•••••••••••••	, 19		~			
WELL: The production during the fu	rst 24 hours	was		barrels o	of liquid of wi	hich%	
was oil;	% was emu	lsion :		% water; and	l	% was sediment. A	
Gravity	•				· .	. •	
WELL: The production during the fir	rst 24 hours	was	M	I,C.F. plus	***************************************	barrel	
liquid Hydrocarbon. Shut in	Pressurc			•		٠,	
th of Time Shut in		· · · · · · · · · · · · · · · · · · ·				• •	
LEASE INDICATE BELOW FORM	rameron my	DE IN CON	ODM A NO	e week ca	OCD A PETICA	T SECTION OF STATE	
Southeastern			ORBIANO	E WIIH GE		hwestern New Mexico	
nhy	T. D	evonian		***************************************	T. Ojo Alaz	mo	
մ ե 397	T. S	ilurian			T. Kirtland	-Fruitland	
_{Jt.} 680	T. N	fontoya			T. Farming	ton	
ates	T. S	impson				Pictured Cliffs	
Rivers		IcKee		***************			
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NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

LAY 2.4 1955

DE CERE, Londo, ACTON, O. COR

WELL RECORD

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

If State Land submit 6 Copies

LOCAT	REA 640 ACI E WELL COI	RRECTLY						
Fel	h Nix e	nd Jerr	y Curt.i	Ls		G1	1] fastata.	
				•				28E, nmpm.
Und	esignate	d			Pool,	•	Eddy	County.
Well is 198	8 –	feet fro	omSc	outh	line and	1930	feet from	East line
of Section	24		If State La	and the Oil and	l Gas Lease No.	is B-1159)5	
Drilling Com	menced	Merch	19	, 1	1955 Drillin	g was Completed	April 29	
Name of Dril	ling Contrac	ctor		& Chepard				
								be kept confidential until
								• •
				on	SANDS OR Z	ONES		
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			USEC	<u> </u>		700		Water shut-off
	<u>!</u>		<u></u>		1	1		1
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		(Reco	rd the Pro	cess used, No.	of Qu. or Gal	s. used, interval	treated or shot.)	
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* = please attach pertinent documents			
V. PRODUCTION / BRINE STORAGE (conti Brine storage facilities (describe)	nued) LINED PIT, Sale	es lines, L	eak det. pit (unlined

Billie Storage (actificies (describe) PII, SAIRS (17) ES, Lea E de 1. p.
Current condition/status of brine storage pit 6000 SHAPE No
LEAKS INDICATED AROUND PIT, would have showed in
unlined mon. pit.
Is brine storage pit currently being monitored for leakage? yes
Specify company or agency which is monitoring leakage BEE INC.
If pit leakage has been monitored in past use note to explain.
Comments on production history (note if production rates or brine
concentrations have changed through time)
<u> </u>
•

-144			
= please attac	ch pertinent docume	ents	
. ABANDONMENT	/ PLUGGING RECORD	ס	
Date well abar	doned/plugged	NO 1N1	ENTIONS TO PEA
Reason for wel	l abandonment or p	olugg ing	,
Method of Plug	ging (describe ful	lly, include amount	s of cement, est. top,
plug type, dep	th, etc.)		
			•

•			
II. Further com	ments (subsidence	noted, subsidence r	monitoring leakage
			PG storage data, etc.)
		NO LEAKAGE, NO	
	30001001000,	1.0 LOARAGE, NO	3003.7737111
•			
			
			·
		. Recorded by	Larry Branks
		Recorded by _	Larry Brooks 10/26/81

* = please attach pertinent documents

IV. AQUIFER INFORMATION

Aquifers encountered during drilling

		•	-	
From	То	Aquifer Description	Amount of Water entering hole	Quality of Water
225'	245'		No vol. given	
¹ 335′	2345		36 gal./hr.	
2554	2563'		15 gal./hr.	
1850	2921		18.33 9 p.b.	
2953	2960		40 gal/br.	
2971'	2983'		47 gall hr.	<u></u>
3004	3009'	·	filled hole.	BRINE
Note:	if water	quality analyses ar	e available please attach.	*

Source of aquifer description OCD WELL RECORDS (C-105)
Depth at which water was first encountered 225'-45'
Depth to which water rose
Source of water level data
Comments (include information regarding determination of piezometric level and method of sealing off water zone)crc. cmr. on &5/s"csq. String.
NO WINDMILLS WITH YEMI. HZO Shot off by running csg. roo' below
lowest water sands, & circ. cmt.

INVENTORY OF SOLUTION MINING WELLS

- * = please attach pertinent documents
- V. PRODUCTION / BRINE STORAGE INFORMATION

Method of production (describe fully) Tha. 660'. Inj down that
circulate brine to surface thru annular space between
tbg. & hole, and @ 416', thru sur. csq. & tubing annulus.
Was well used previously for some purpose other than brine supply, potash
dissolution, or LPG storage. If so use note to explain. Well was proj
to the Sandres for possible oil prod. No other useage.
Use of brine DRILLING & PROD.
Source of injection water (be specific) water co-op. (Double Eagle)

Attach detailed production history (include dates of production, amount of water injected, injection rates, amount of brine produced, production rates, method of gaging injection/production rates)*

Note: If the cavity was used for LPG storage include volumes of product injected and withdrawn as well as a summary of the maximum and minimum pressures during injection, storage and withdrawal.

Chemical analyses of injection water (attach)* Not available.

Note: Chemical analyses should include sampling point and method,

pH,temperature,method of analysis, name and location of laboratory, etc.

Chemical analyses of water produced (attach)*

Production info: attached to #1¢2 Eugenie totals.

- I) AFTER FW PASES THRU TRUCKERS
 METER, BEFORE IT IS PUMPED INTO
 THE SALT-SECT. WATER HAS BEEN
 LOST, VIA BREAKS IN LINE, UND.
 CONSTRUCTION, SALES OF FW
 OFWHICH THERE IS NO RECORD
- 2) PROBLEM OF KEEPING CONSISTENT METER READINGS & W/SALES.
- 3) NO TOTALIZING METER ON PROD. BRINE . TOTALED BY SALES
- 4.) AS PERMARY HUGHES
 STABLE INS. PATE 30 MIN.
 ON 30 MIN DEF. 150-160

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CHEMICAL and PHYSICAL ANALYSES MAY 2 0 1982

X Confr.

HEALTH and SOCIAL SERVICES DEPARTMENT

State of New Mexico

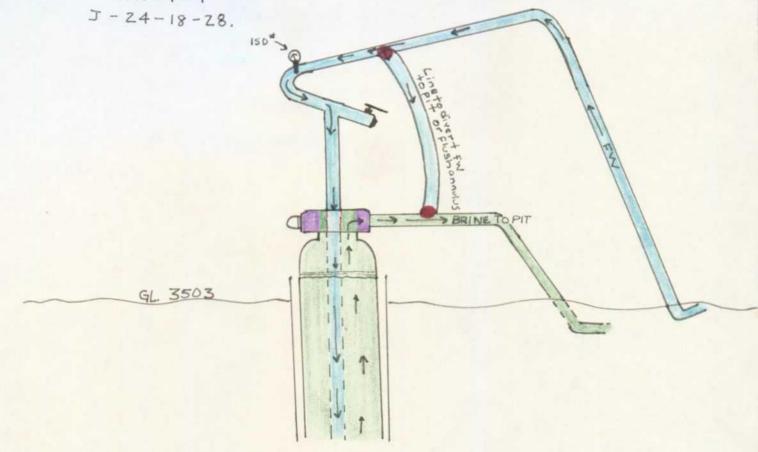
A HAW WATER Radiological SLS user code No. <u>E</u> シカロン 101:00C 39400 Toxaphene 2, 4, 5-TP. TREATED WATER Methoxychlor 39740 4 39732 (Lindane ORGANIC 000 (Silvex) Endrin 39730 2, 4.D 39390 38270 LONG LAT. Date reported Check one: Reviewed by Organic. ... pCI/I !-- + RADIOLOGICAL pCI/I 01501 Gross Alpha Lab No. pCI/ Other (specify) ن . . CDC1/ ۲. 55 Report to Address 7. į Radium-226 03501 Gross Beta Radlum-228 □well-Depth..... PARAMETER County 11501 09501 , s. late received TYPE of CHEMICAL ANALYSIS 'n Composite. Double Eagle Complete Secondary mg/l □ Lake Pool 01030 Chromium 01025 Cadmium 01145 Selenium 07180 Mercury 01000 Arsenic Ostream □ SprIng METALS 01005 Barlum 01075 01049 HEAVY Silver Lead Toughte ... Collector's remarks City or Location SOURCE: for WATER SAMPLES CONSULT SLS Lab Annex I. for proper presentation of sample(s). TYPE or PRINT with Ball Point Pen CHEMICAL ... Check individual Items for analysis. INTERIM PRIMARY PARAMETER GROUP CARLSBAD OFFICE 200 808 545 5 RESERVED. 30 0 0 V $\dot{\phi}$ V6w 1/6m MAY 8 Water Supply System Code No. Filterable Residue Micromhos 25°C Conductance Agents (as Las) 00070 Turbidity \(\frac{7}{2}\) 38260 Foaming PHYSICAL 70300 000080 Color 00005 00400 pH 01330 Odar Total ☐ Nôn-community **ゆい** 1/6m 84.3 4000 (35 CI) 3 97 Ö 15 Collection Point ... (as CaCO₃) Bicarbonate (£00, se) (3 (as 504) PUBLIC: Ed Community Carbonate 00620 Nitrate (as N) (as HCO₃) Alkalınity Chloride Fluoride .00600 Sulfate . (as F) [Mark appropriate box(es)] ,00945 ANIONS .00940 00445 00430 00440 S. Belly Barre 13/12/14 ... " 4. 1. 1. 1. M. A. 18. 1. 27 1 Collection Time LABORATORY SYSTEM TYPE of SYSTEM (Check one) 2,73 544 39. 8 LABORATORY REMARKS: mg/l Ø SCIENTIFIC (as CaCO₃) Tol. Hardness (es Mg) (as Fe) (as Mn) y Magnesium PRIVATE . (as K) Manganese Potasslum Iron-Total 00600 00930 Sodlum Calcium (as Ca) 00915 CATIONS ANALYSES: (PN SE) 01056 00935 00925 01045, bub/e Collection Da 9

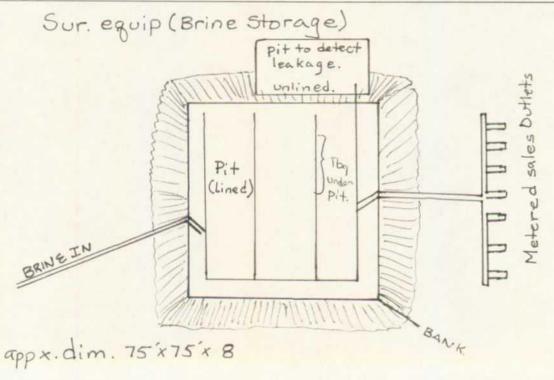
SLS 702 Form Revised 5/77 (Repieces SLS 007)

DISTRIBUTION: White - Water Supply Regulation, SF . Canary - WS System . Pink . E1A Regional Office . Goldenrod - SLS Lab

Wellhead sketch:

PBS\$5 GOBEE Inc. 5+. 24#1





Sideview:

Ralph Nix & Jerry Curtis Gulf St. # 2 "II.) Attached schematic. Welle in 19-18-29 Camp. 6:30 - 2430 Redimixed W/ 4yds. cm+ sqzD Hole @42' w/100 sxs. won 225-45 24-18-28 -10 "Lie 891" - 416-50 sis. Comp. 2696.2975 Tr X 397 Esse X 680 Bx 680 D'hh' Yales 860 355X 850-950 Triv аррх 1000° 800 3554 1800-1900 Que 1830 : 000 عنورا Syba 2348. 2500 Jest Une 2563 - 15911 Pt 2921 18/3 gal PH 2960 20 " " @ 2983 test 47 gal with TP 3009 @ 3009 HFXW



PERMIAN BRINE SALES, INC.

24-HOUR BRINE SERVICE THROUGHOUT THE PERMIAN BASIN

ODESSA, TEXAS

PHONE 332-0531

P. O. BOX 1591

November 8, 1982

State of New Mexico Energy and Mineral Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

Division Director

Dear Sir:

Pursuant to your letter of September 9, 1982, and to subsequent telephone conversations with Mr. Oscar Simpson, attached hereto is a filing of a discharge plan for an in situ extraction well for brine. This filing is for the well located in:

Section 24, Township 18 South, Range 28 East in Eddy County.

If additional information is required, please call me.

Very truly yours,

PERMIAN BRINE SALES, INC.

A.L. Hickerson

President

ALH/rdt Attachment

CC/Mr. Phil Withrow B. & E. INC.

ARTESIA BRINE STATION

Permian's Artesia Brine Station is located in the SE/4, Section 24, Township 18 South, Range 28 East, Eddy County, New Mexico. See drawing No. 1 and map 1. The station was developed by re-entering an abandoned dry hole, Nix & Curtis - No. 2 Gulf State, Drilled in 1959. The plugs were drilled out and the original well plugged back to 680', at the base of the salt section, in 1979. There was 416' of 8 5/8" 0.D. 24# casing, cemented in the original drilling and left in the hole. Permian ran 680' of 2 7/8" tubing to the bottom and completed the well as a brine well, after spotting a cement plug from 980 ft. to 850 ft.

Fresh Water for operations is obtained from the city of Carlsbad, Double Eagle Water System's pipeline, approximately 1.5 miles Northwest of the brine station. The Fresh Water is injected down the well tubing, at pipeline pressure, and brine returned to the surface storage pit at 30 GPM rate. A booster pump on Permian's pipeline lateral has been installed to increase the Fresh Water flow rate to 75 GPM when sales demand requires additional volumes.

A 10,000 BBL, brine storage pit, lined with 30 mil Dupont Hypalon film, with a leak detction system, has been constructed approximately 800' Southeast of the brine well. Truck loading facilities have been provided adjacent to the Loco Hills - Illinois Camp Highway, see drawing No. 2.

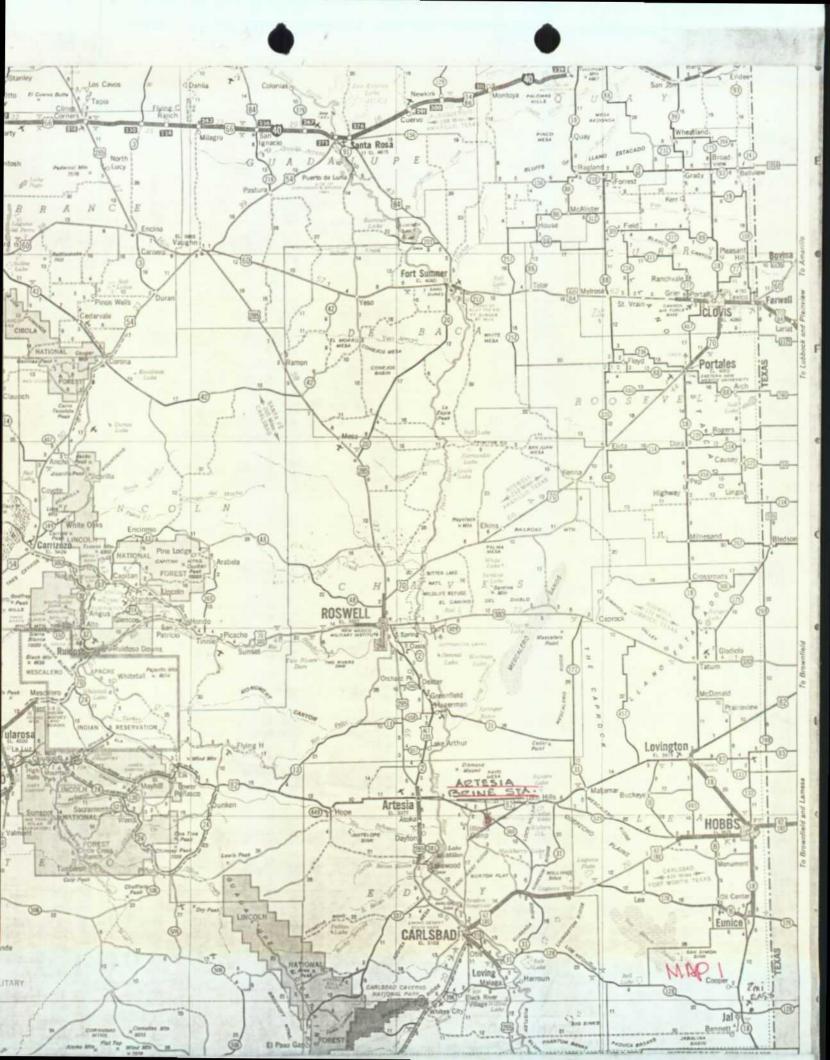
There is no potable underground water aquifer in this area. As indicated on the drillers log exhibit 1, there is a sand lens containing 'GYP' water at 220'. See exhibit 1, attached. There is no analysis of this underground water available.

The flooding potential of this station site is non-existent. As indicated on the USGS map 2, the brine station is located on the side of major elevated area, approximately 30' above the drainage course. The annual precipation in this semi-arid region is of proportions that run-off rarely fills the barrow ditches.

Sample connection for the fresh water is at the brine wellhead and the brine can be sampled at the truck loading header. The fresh water volume is metered at the junction of the Carlsbad water system pipeline and the Permian Brine pipeline lateral. Brine volume is measured through meters at the truck loading header, see drawing No. 2.

A drillers log is attached, Exhibit 1, which describes the lightlogical character of the underground formations.

Since there is no fresh water aquifer and, to our knowledge, no underground water production in this area, the possibility of contamination of underground water is non-existent. Therefore, there are no provisions or need for monitoring facilities.



24

24

BRINE WELL

STATION

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SCALE 1": 2000"

PERMIAN BRINE SALES, INC.

ODESSA, TEXAS

ARTESIA BRINE STATION

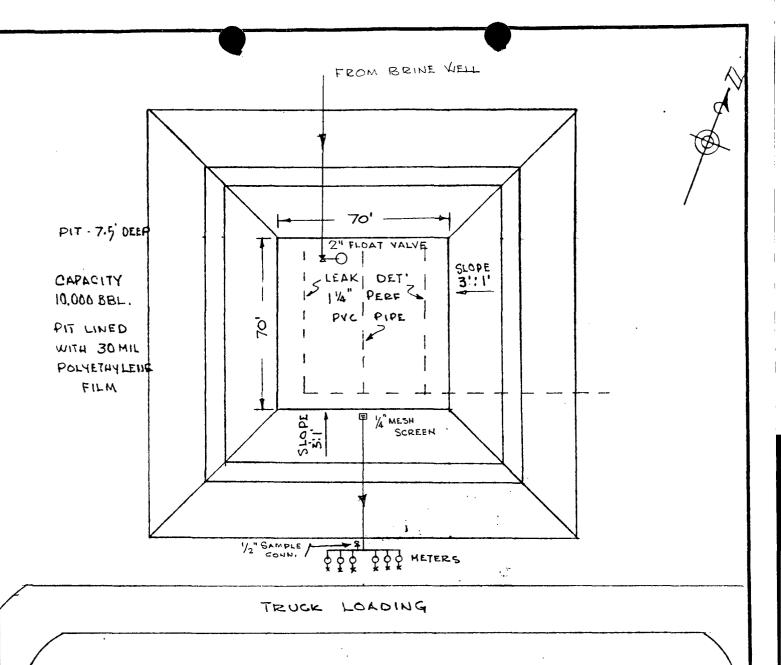
BRINE WELL LOCATION

1988' FSL - 1930' FEL SEC. 24 · R 28E · 7 185

EDBY CO. N. MEX.

DATE: 10-18-87 P.C. McCutchan DRAWING NO.

DATE: 10-18-87 P.C. McCutchan DRAWING NO.



HIGH WAY"

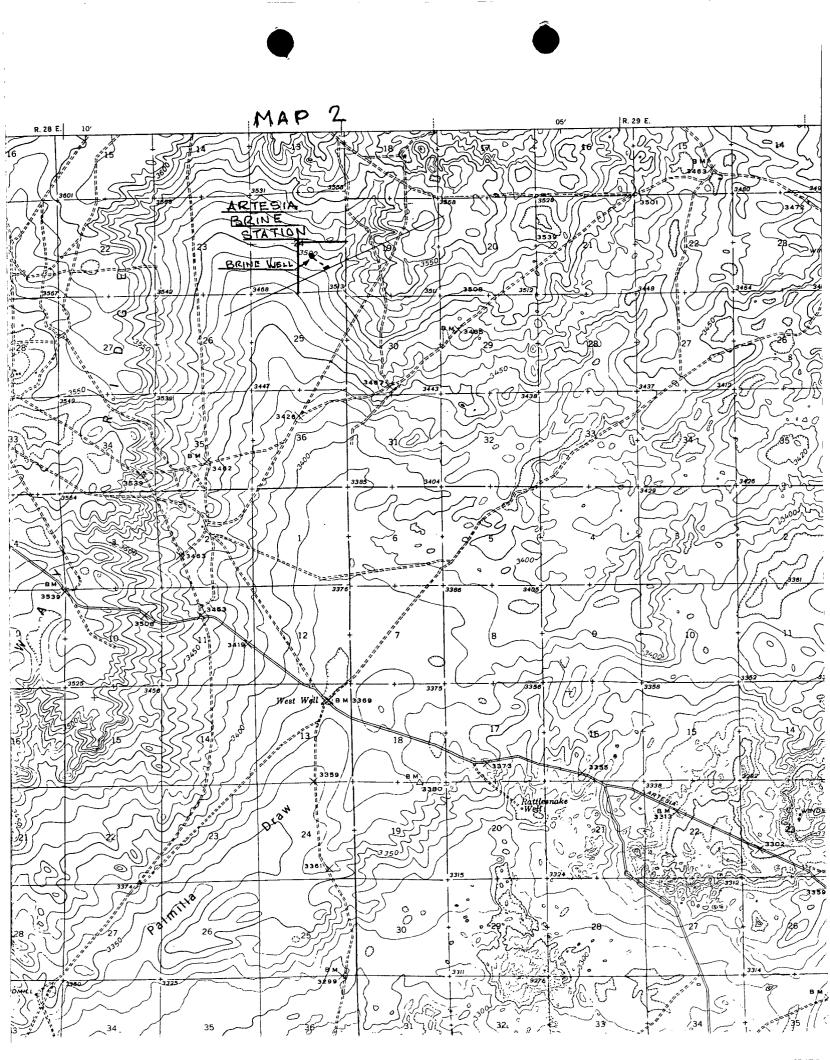
PERMIAN BRINE SALES, INC.
ODESSA, TEXAS

ARTESIA BRINE STATION

BRINE STORAGE PIT

DATE: 10.18.82 R.C. McCutchan Drawing HO.
DATE: 10.18.82 P.E. TEX 9844

FORM 1779 3-64



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	30	40	Gravel			740	2768	Gr. lime
NM	40	50	Sand				2788	Brn.lime
DIC		.62	Gravel			788	2803	Dark lime
	50 62	99	R.Beds			803	2820	Sand & lime
	99	112	Gravel				2829	Gr. lime
	112	220	Red.Beds			829	2836	Brn.lime
	220	250	Sand & Gyp. (w	+ 225 21 5			2850	Dark lime
	250	260	R.Beds	101° 225-245) : 2	850	2921	Gr. lime (Tosted 1 hr
	260	290	Gr. shale			1	1	18 1/3 gal.wtr.)
,	290	335		h-7 20	\	921	2935	Gr. sandy lime
	335	390	R.Beds (Reduce R.Beds & gyp	nore ar 30		935	2953	Gr. lime
	390	397	R.Beds & gyp		, 29	953	2960	Lime(Test 30 min-
1 1	397	680	Salt	1.0		1	ļ	20 gal.wtr.)
	-680	865	Anhy			960	2971	Gr. lime
880	2605	905	Bkn.Anhy			971	2983	Lime(Tested 1 hr
8 00	905	920		TTO COMMISSION OF STREET				47 gal.wtr.& show
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UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY: B AND E INC.

DATE: 5-20-82

FIELD, LEASE EWELL: STATE #24 #1. (now Permassampling Point: Brine Well

DATE SAMPLED: 5-19-82

SPECIFIC GRAVITY = 1.202 TOTAL DISSOLVED SOLIDS = 298670 PH = 6.83

	•		ME/L	MG/L
CATIONS	,			
CALCIUM MAGNESIUM SODIUM	(CA)+2 (MG)+2 (NA),CALC.		70 35 4992.	1402. 425. 114772.
ANI ONS				
BICARBONATE CARBONATE HYDROXIDE SULFATE CHLORIDES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1		1 . 8 0 0 1 0 4 . 4 9 9 1 .	109. 0 0 5000 176960.
DISSOLVED GASES				
CARBON DIOXIDE HYDROCEN SULFIDE OXYGEN	(CO2) (H2S) (O2)		NOT RUN NOT RUN NOT RUN	
IRON(TOTAL) BARIUM MANGANESE	(FE) (BA)+2 (MN)		NOT RUN NOT RUN	. 7
SCALING	INDEX	TEMP		

3 0 C 86F - . 3 **9**

CARBONATE INDEX CALCIUM CARBONATE SCALING

UNLIKELY

SULFATE INDEX CALCIUM SULFATE SCALING

-.14 UNLIKELY

> ARTESIA, OFFICE O. C. D.

S861 & S YAM

MECEINED

inj H2O sample for PBS St. 24#1

- WATER ANALYSIS REPORT -

CARLSBAD CITY LABORATORY 1502 West Stevens Carlsbad, New Mexico 88220

SAMPLE SENT I	City of Carlsbad		ANALYSIS NO.	
FROM	Well Field		SAMPLE RECEIVED	April 30, 1982
ADDRESS			SAMPLE REPORTED	April 30, 1987
	Composite			
	PHYSICAL CHARACTER	RISTICS AS	RECEIVED	
Color	Odor		Turbidity	
	CHENICAL CHA	PARTS per NILLION	PPN as CaCo3	As CaCo3 Grains per Gallon
Alkalinity-N:	• • • • • • • • • •		220	
	• • • • • • • • • • • • •		0	
		72	180	10.5
Magnesium-MG:	• • • • • • • • • • •	33	132	7.7
	• • • • • • • • • • • • •	112		·
Chiorides-Cl:		30		
Silica-Slo2:				
Iron-Fe:				
	• • • • • • • • • •			
Fluoride: PH: As receiv		0.38		
Aquapoise (PHs		. /.6		
TOTAL HARDNESS	: (As CaCo ₃): D SOLIDS (As CaCo ₃):		312	18.2
			1	

Jose A. Renteria





STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

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

January 3, 1986

Mickey Monk 3&E, Inc. POBox 2292 Hobbs, NM 83240

Re: Discharge plan for B&E Loco Hills brine station

Dear Mr. Monk:

This is to correct the error in my December 11th letter to you which you pointed out in a phone call to me on December 18th. On reviewing the file on 3%5 State 24-1 Brine Station, I realized that you had submitted copies of two bonds which you hold with two different state agencies. I informed you in my December 11th letter that the bond you hold with the State Land Commission will not serve the purpose of the financial assurance required of injection well facilities. However, as you pointed out to me by telephone, you also hold a bond with the Oil Conservation Division which is specifically intended to cover plugging of the brine well. If you can demonstrate that the amount of this bond is adequate to cover the cost of plugging by an outside contractor, then the bond will be accepted by this agency as meeting the terms of Section 5-210.3.17 of the Water Quality Control Commission (WQCC) regulations.

Sorry for the confusion.

I will be in touch with you by separate letter regarding B&E's Carlsbad brine station. Briefly, the materials describing the transfer of ownership are deemed by our legal counsel not to meet the terms of Section 5-101.I. of the WOCC regulations, which governs transfer of a discharge plan upon the change in ownership of a facility.

Sincerely,

Paige Grant Morgan

Water Resource Specialist

This Morgan

Ground Water Section

PGM:pgm

cc: John Guinn, EID District IV Manager.



STATE OF NEW MEXICO

TONEY ANAYA GOVERNOR

DENISE D. FORT DIRECTOR

ENVIRONMENTAL IMPROVEMENT DIVISION

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

December 18, 1985

Mickey Monk B&E, Inc. PO Box 2292 Hobbs, NM 88240

Dear Mr. Monk:

I enclose a copy of the Assurance of Discontinuance for B&E, Inc., which has been signed by all parties. I look forward to receiving your discharge plan for the State 24-1 brine station on or before April 10, 1986, as specified in the Assurance. If you have any questions about the contents of the discharge plan, please be in touch.

Sincerely,

Paige Grant Morgan

Water Resource Specialist

alex Morgan

Ground Water Section

PGM:pgm

cc: John Guinn, EID District IV Manager.

ASSURANCE OF DISCONTINUANCE

WHEREAS, on September 18, 1985, staff of the New Mexico Environmental Improvement Division (EID) requested Phil and Julie Withrow, owners of B&E, Inc, to submit a Discharge Plan pursuant to Sections 3-104 and 5-101.B.3 of the New Mexico Water Quality Control Commission (Commission) regulations for discharges from the brine facility and brine well "State 24-1", located in Section 24, Township 18 South, Range 28 East, N.M.P.M., Eddy County, New Mexico; and

WHEREAS, neither the regulations nor an extension to discharge without an approved Discharge Plan issued by the Director, nor any Court Order, allows B&E, Inc. to operate an injection well and associated surface facilities beyond December 20, 1982, and discharges at "State 24-1" Brine Station therefore constitute a violation of Section 5-101.B.3 of the Commission regulations and of Section 74-6-5 of the Water Quality Act; and

WHEREAS, the following information indicates that there is no present contamination of drinking water sources as a result of this operation:

(a) A 24-hour pressure test of the well casing and salt cavity indicated no leakage from the injection well;

(b) An inspection by EID staff indicated no sources of potential ground water contamination by surface activities; and

(c) A representative of the State Engineer's Office has reported that no water wells exist within three miles of the "State 24-1" Brine Station; and

WHEREAS, B&E, Inc. has committed to the Commission to proceed with all diligence to prepare and secure an approved Discharge Plan; and

WHEREAS, the Commission and B&E, Inc. deem it appropriate to enter into this Assurance of Discontinuance.

B&E, Inc. assures the Commission as follows:

1. <u>ASSURANCE</u>: A Discharge Plan shall be prepared for the "State 24-1" Brine Station according to the schedule in Paragraph 2, thus discontinuing the practice of operating a brine well without a Discharge Plan in violation of Section 5-101.B.3 of the Commission regulations. This Assurance shall expire concurrently with the approval or disapproval of the Discharge Plan. If the Discharge Plan is approved, all operations at the facility shall be consistent with the terms of the Discharge Plan. If the Discharge Plan is disapproved, all injection operations and the use of associated surface facilities at the "State 24-1" Brine Station shall be terminated.

2. SCHEDULE OF COMPLIANCE: It is agreed that preparation of the Discharge Plan shall comply with the following schedule: A. B&E, Inc.shall submit to EID a complete Discharge Plan which shall address all applicable requirements of the on or before April 10, 1986 Commission regulations B. EID shall complete review of Discharge Plan application and shall proon or before June 10, 1986 vide comments to B&E, Inc. C. B&E, Inc. shall submit responses to the EID comments to EID on or before August 10, 1986 D. EID shall review materials submitted under C and shall provide comments to B&E, Inc. on or before October 10, 1986 E. B&E, Inc. shall respond to EID comments provided under D on or before November 10, 1986 F. EID Director's approval or disapproval of the Discharge Plan shall be promulgated on or before January 10, 1987 If a public hearing is scheduled by the EID Director pursuant to Section 3-108 of the Commission's regulations, all deadlines in Paragraphs 2.B through 2.F shall be 45 days later. 3. MUTUAL COOPERATION: B&E, Inc. and the EID shall mutually cooperate in accomplishing on a timely basis the matters contemplated by this Assurance. In this respect, direct communication among B&E, Inc. representatives and EID personnel is encouraged. 4.EXTENSIONS FOR GOOD CAUSE: It is expressly agreed and understood by the parties hereto that events not reasonably foreseeable on the date of execution of this Assurance may occur which will make it impossible or extremely difficult for B&E, Inc. to comply in a timely fashion with those compliance dates set out in numbered paragraph 2. In the event such unforeseen events do occur, B&E, Inc. may apply to the Commission for an extension for an additional reasonable period of time to comply with such tasks in numbered paragraph 2. The additional reasonable period of time, if granted, shall in all cases be governed by the relevant circumstances. 5. ENFORCEMENT: The Commission shall not undertake enforcement against "State 24-1" Brine Station for the continuation of current discharges occurring during the pendency of this Assurance without first giving B&E, Inc. 15 days prior written notice by the Director that he is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under Section 74-6-11 N.M.S.A. 1978.

Failure by B&E, Inc. to comply with any condition of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under Sections 74-6-5 and 10 N.M.S.A. 1978, as applicable.

Nothing in this Assurance of Discontinuance shall relieve B&E, Inc. from the responsibility for complying with all the provisions of the Water Quality Act, the regulations promulgated thereunder or any other provision of law except as otherwise specifically provided herein.

6. <u>PENALTIES</u>: The Commission's approval of this Assurance of Discontinuance does not imply that the Commission waives the right to seek penalties for violations occurring prior to its approval of the Assurance, pursuant to Section 74-6-10.B.N.M.S.A. 1978, if B&E, Inc. should violate any term of this Assurance.

Signed and acknowledged this 2 day of 100 , 1985.

Philor Julie Withrow

PHILLIF B. WITHROW

(Notary for this signature only on next page, No. 2.)

ACKNOWLEDGEMENTS (choose appropriate form)

1. <u>Natural Person</u>	
*STATE OF NEW MEXICO)
COUNTY OF (place where notarized)	: SS)
The foregoing instrument wa November , 19 85 by	as acknowledged before me this <u>29th</u> day of Julie Withrow
My Commission expires:	
8/29/86	Haran Dobble Notary Public
	Karen Gobble

* (Note: If the Assurance is signed and acknowledged outside New Mexico, the name of the state should be inserted.)

2. Partnership, by one or more partners	
*STATE OF NEW MEXICO) : SS
COUNTY OF Santa Fe)
The foregoing instrument was a December , 19 85 , by(name PHILLIP B. WITHE of (name of partnership) B & E Incor	cknowledged before me this 10th day of of acknowledging partner or partners) ON , partner(s) on behalf porated , a partnership.
My Commission expires:	1 1 2
8-04-86	Notary Public
3. Limited partnership, by one or more ge	eneral partners
*STATE OF NEW MEXICO)
COUNTY OF	: SS)
The foregoing instrument was a, 19, by (name partners)	cknowledged before me this day of e of acknowledging general partner or , partner(s), on behalf of (name of , a limited partnership.
limited partnership)	, a limited partnership.
My Commission expires:	
	Notary Public
4. Corporation or incorporated association	<u>on</u>
*STATE OF NEW MEXICO)
COUNTY OF	: SS)
The foregoing instrument was a	acknowledged before me thisday of
(title of officer), by (na	me of officer) , of (name of corporation acknowledging) Tate of corporation) corpoation, on behalf
of the corporation.	state of corporation, corporation, on benan
My Commission expires:	
	Notary Public

APPROVAL

STATE OF NEW MEXICO)	
COUNTY OF SANTA FE)	
The foregoing instrument , 19 85, by Lie	was acknowledged before me this 16th day of chard d/b/a acknowledged before me this 16th day of
My Commission expires:	Water Quality Control Commission
10/25/86	Notary Public &

WATER QUALITY CONTROL COMMISSION

Denise Fort, Chairman (Active)
Water Quality Control Commission

EID BUCKSLIP

CHECK ONE: WORCC Chairman
LETTER TO
for <u>Onedor's</u> signature
/// MEMO TO
PRESS RELEASE
OTHER
SUBJECT: Ussurance of Sisconfinaance
DRAFTED BY: Morgan/Rose 11/26/85
CONCURRENCES: DATE DATE
NAME: INITIAL REC'D APPROVED
. Lon Comad Sect. Mgr. PC 12/11/05 12/11/65
Ernte Rebuck Bur. Chief & 12/11/80
Richard Holland Dep. Dir.
Denise Fort Director -
FINAL DECISION NEEDED BY ASAD BECAUSE AND BECAUSE
does not take effect until signed
COMMENTS BY DRAFTER OR REVIEWER(S):
Commission approved AgD pending signa-
June by both partners of company. second
partners signature obtained please approve Hof Don behalf of Commission:



STATE OF NEW MEXICO

DENISE D. FORT DIRECTOR

ENVIRONMENTAL IMPROVEMENT DIVISION

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

Mickey Monk B&E, Inc. PO Box 2292 Hobbs, NM 88240

December 11, 1985

Dear Mr. Monk:

Thank you for the materials pertaining to B&E's Carlsbad and Artesia brine stations, which we received at EID on December 2nd. The documents related to transfer of the Carlsbad station from Permian Brine Sales to B&E are undergoing review by our legal staff to determine their adequacy.

Most of the materials you submitted for the Artesia station are not relevant to a discharge plan for that facility. The bond which you hold with the State Land Commission as one of the terms of a salt mining lease with the state, will not serve the purpose of the bond or other financial assurance (see Section 5-210.B.17 of the Water Quality Control Commission regulations) which our agency requires as a term of a discharge plan for an injection well. The reason for this is that the State Land Office bond only serves to protect improvements belonging to owners of the surface of the land. On the other hand, the EID financial assurance is used to guarantee that the injection well will be properly plugged upon abandonment and that any damage caused to protected ground water by operation of the well will be repaired. As part of the discharge plan for the Artesia station, you will be required to provide an estimate of the cost of plugging the brine well with cement from the foot of the casing to ground surface, and then submit some form of financial assurance for at least that amount.

I should let you know that I did not arrive independently at this conclusion regarding your state mining lease bond, but in consultation with Art Waskey, General Counsel of the State Land Office, whose telephone number in Santa Fe is 827-5713.

Please be in touch with me at the above address or by phone at 827-2901, if I can help to clarify any other requirement of a ground water discharge plan for a brine station.

Sincerely,

Paige Grant Morgan

Water Resource Specialist

Ground Water Section

PGM:pgm

cc: John Guinn, EID District IV Manager

BILL OF STATE OF NEW MEXICO X **EROUND WATER/HAZARDOUS WASTE** COUNTY OF LEA BUREAU WHEREAS, by Letter Agreement accepted in December 1978, PERMIAN BRINE SALES, INC. (successor to Permian Brine Sales and Service, Inc.) ("PBS) and B & E, Inc. (B&E) entered into an agreement for the joint operation of that certain brine water station located in the NW/4 SE/4 Section 24, T-18-S, R-28-E, Eddy County, New Mexico (the "Station"); WHEREAS, PBS desires to sell and B&E desires to buy all 1. The December 1978, Letter Agreement (copy attached) is hereby terminated effective April 30, 1983, at 11:59 p.m.

of the right, title and interest of PBS in and to the Station; NOW, THEREFORE, in consideration of the premises and the covenants herein contained, the parties hereto agree as follows:

- In consideration of \$10.00 and other goods and 2. valuable considerations in hand paid by B&E to PBS, the receipt and sufficiency of which is hereby acknowledged, PBS hereby conveys, sells, transfers and assigns all of its right, title and interest in and to the following:
 - a. That certain Salt Mining Lease, Po. M19609, dated June 26, 1978, (copy attached) from the State of New Mexico to Permian Brine Sales and Service, Inc., covering the NW/4 SE/4, Section 24, T-18-S, R-28-E, Eddy County, New Mexico (the "Salt Mining Lease").
 - That certain Row and Water Easement, No. RW b. 19824, dated September 18, 1978 (copy attached) from the State of New Mexico to Permian Brine Sales and Service, Inc., covering the pipeline

in Sections 14, 23 and 24, T-18-S, R-28-E, Eddy County, New Mexico (the "Pipeline Row and Water Easement");

- c. The brine well hole at the Station, including the casing, and tubing therein;
- d. The lined pit at the Station;
- e. The Station, including all pipe, valves, fittings associated therewith;
- f. All other personal property used in connection with the joint operations by the parties hereto at the Station.
- 3. B&E hereby covenants that it shall assume all obligations of the lessee under the terms of the Salt Mining Lease and the water pipeline row and easement hereby agrees to hold PBS harmless from any and all claims arising after April 30, 1983, in connection with the obligations of the lessee under the terms of the Salt Water Lease and the Water Pipeline Row Easement.

IN WITNESS WHEREOF, the parties hereto have executed this instrument effective April 30, 1983.

B & E, INC.

BY: 1 AUNTONIA

PHIL WITHROW, PRESIDENT

PERMIAN BRINE SALES, INC.

: 111 Ald Allas

A.L. HICKERSON, PRESIDENT

THE STATE OF

COUNTY OF

BEFORE ME, the undersigned authority, on this day, personally appeared Phil Withrow, known to me to be the person whose name is subscribed to the foregoing instrument as President of B&E, Inc., a corporation, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity stated, and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the pely, 1983.

County.

Notary Commission expires on exe 20/987 .

THE STATE OF TEXAS

COUNTY OF ECTOR X

BEFORE ME, the undersigned authority, on this day personally appeared A.L. Hickerson, known to me to be the person whose name is subscribed to the foregoing instrument as President of Permian Brine Sales, Inc., a corporation, and acknowledted to me that he executed the same for the purposes and consideration therein expressed, in the capacity stated, and as the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the tene 30 ____, 1983.

ally Commission expires on u 20 1987 .

aperation agreement fil

AGREEMENT

THIS AGREEMENT made this _____ day of December, 1978, between B & E, INC., a New Mexico Corporation, "B & E", and PERMIAN BRINE SALES, INC., a Texas Corporation, "Permian".

WHEREAS, Permian is the lessee of the following described state land in Eddy County, New Mexico:

NW/4 SE/4 Section 24 Township 18 South Range 28 East, containing 40 acres, more or less.

WHEREAS, B & E is the holder of a contract to purchase fresh water from the city of Carlsbad water line in Section 14, Township 18 South Range 28 East

WHEREAS, the parties desire to establish a process to produce brine water on the above described property in Section 24.

NOW, THEREFORE, IT IS MUTUALLY AGREED AS FOLLOWS:

- 1. Permian agrees to install a brine process on the above described premises, including the re-entry of a plugged and abandoned oil well to make a brine well, construction of a storage pit and truck loading facilities. Permian will install a fresh water pipeline from the city of Carlsbad line in Section 14, to provide water for the brine making process.
- 2. Permian agrees to install the process in a workmanlike manner, in accordance with the best proved methods and use its best efforts in good faith to minimize the cost of construction.

3. The actual cost of construction shall be borne by the parties in the following percentages:

NAME OF PARTY

B & E, Inc.

Permian

40%

after payment of the aforesaid percentage, B & E shall own 50 percent of the process, and the water line.

4. B & E shall be the operator of the process and shall have exclusive charge, control and supervision of the operation. B & E, as operator, shall be subject to all the valid rules and regulations of any authority having jurisdiction of the premises, including agencies of the State of New Mexico.

B & E shall pay and discharge all costs and expenses in connection with the operation of the process, including mineral which shall be operating royalties to the state from the process' income, expenses under #5 below.

B & E shall establish an independent set of books for the process. The operation expenses and profit shall be determined by generally accepted accounting principles. Said books shall be available to Permian for its inspection and an audit by an accountant of its choosing at its expense.

Permian shall be responsible to obtain and file all bonds and assurances with the State of New Mexico and its agencies during the construction of the process and during its operation.

5. Division of income and profits: B & E shall receive 10 percent of the process' gross revenues as consideration for its operation of the process. The 10 percent received by B & E shall be charged to operating expenses and the net income after deducting the 10 percent and other operating expenses shall be divided between the parties as follows:

NAME OF PARTY

B & E, Inc.

Permian

50%

Income distribution shall be made monthly

by, B & E.

- 6. Delinquent Accounts: Any accounts which are delinquent for a two year period will be charged off as an operating expense.
- 7. Purchases of brine water by B & E, Inc.: It is contemplated that B & E will purchase a substantial portion of the brine produced by the process. B & E shall pay the price normally paid in the area for the brine purchased by it.
- 8. Termination: This Agreement shall remain in full force and effect so long as commercial quantities of brine are produced or until terminated as provided for herein. In the event a party wishes to abandon the operation, he shall give the other party 15 days' written notice of his intention to abandon and the parties will jointly agree upon the salvage value of the equipment located upon the premises and the party wishing to continue the operation shall pay to the abandoning party a percentage of the salvage value equal to the abandoning party's percentage ownership in the operation as determined in paragraph 3 above. Such abandonment shall constitute the termination of this Agreement.
- 9. Amendment: This Agreement expresses the full Agreement of the parties and shall not be amended, except by written agreement executed with the same formalities of this Agreement and shall be binding upon the heirs, Personal Representatives and assigns of the parties.

ATTEST:

B & E, INCORPORATED

By: Many Secretary

By: Phil Withrow, President

ATTEST:

PERMIAN BRINE SALES, INC.

Corporate Secretary

A. L. Hickerson, President



NEW MEXICO STATE LAND OFFICE

SALT MINING LEASE
JUL 13 9 24 44 78

M-19609

THIS AGREEMENT, day between the STATE (after called the ")	OF NEW MEXICO, acting b	day of		, made and COMMISSIONER OF PUBLIC I	entered into ANDS, herein-
BOX 1591	ODESSA, TEX			, hereinafter called the	"Lessee".
ITNESSETH:					
	described, and with sai	ld application has t	endered as the i	purpose stated herein, First annual rental the a stion fee, and the lesson	sum of
			", thereon and t	e of exploring for, minicherefrom, the following	
INSTITUTION	SECTION	TOWNSHIP	RANGE	SUBDIVISION	ACRES
UNIV.	24	185	28E	NWASEA	40.00

TO HAVE AND TO HOLD said land for a term of 10 years and as long thereafter as said salt in paying quantities shall be produced from the leased land, subject to the terms and conditions hereinafter provided:

- 1. In addition to the advance annual rental of \$ 25.00 hereinbefore provided, lessee agrees to pay the lessor a sum equal of 10% of the actual sale price at the place of extraction, as royalty for all salt mined and removed from the premises. Payment of said royalty shall be made on the 20th day of the month next following the first calendar quarter in which the salt was sold. Further, lossee agrees to keep an accurate record of all production and to submit quarterly reports of same to the lessor upon forms to be furnished by the lessor.
- 2. The right and privilege of the lessee to mine and remove the salt shall be exclusive, in that the lessor will not grant the same rights and privileges to anyone else during the term of this lesse.
- 3. The lessee, with the consent of the lessor, may at any time surrender or relinquish this lease, in whole or in part, to the lessor; provided however, that no relinquishment of any undivided interest herein nor less than a legal subdivision shall be approved or recognized by the lessor. Provided, further, that no relinquishment shall be approved or recognized by the lessor where the rentals and royalties have not been paid and the lease is not otherwise in good standing.
- 4. The lessee, with the consent of the lessor, may assign this lease, in whole or in part; provided, however that no assignment or an undivided interest in the lease, or any part thereof, nor any assignment of less than one legal subdivision, shall be recognized or approved by the lessor. Upon approval of an assignment in writing by the lessor, the assignor shall stand relieved from all obligations to the lessor with respect to the lands embraced in the assignment, and the lessor shall likewise be relieved from all obligations to the assignor as to such tracts, and the assignee shall succeed to all of the rights and privileges of the assignor with respect to such tracts and shall be held to have assumed all of the duties and obligations of the assignor to the lessor as to such tracts.
- 5. Lessor may cancel this lease for violation of any of the terms, convenants, and conditions thereof; provided, however, that before any such cancellation shall be made, lessor must mail to the lessee, by registered mail addressed to the post office address of such lessee as shown by the records, a thirty day notice of intention to cancel said lesse, specifying the default for which the lesse is subject to cancellation. No proof of receipt of notice shall be necessary and thirty days after such mailing the lessor may enter cancellation unless the lessee shall have sooner remedied the default.
 - (a) Lessecs, including their heirs, assigns, agents, and contractors shall at their own expense fully comply with all laws, regulations, rules, ordinances, and requirements of the city, county, state, federal authorities and agencies, in all matters and things affecting the premises and operations thereon which may be enacted or promulgated under the governmental police powers pertaining to public health and welfare, including but not limited to conservation, sanitation, sesthetics, pollution, cultural properties, fire, and ecology.
 - (b) The State has a continuing option to purchase at any time and from time to time, at the market price prevailing in the area on the date of purchase, all or any part of the minerals (SALT) that will be produced from the lands covered by this lease (or other conveyance).
- 6. Lessor shall have the right to inspect all records, books or accounts pertaining to mining, extraction, transportation and returns of materials taken from the lands.
- 7. Lessee may make or place such improvements and equipment upon the land as may be reasonable necessary to explore for, mine and remove the materials, and upon termination of this lease for any reason, lessee may remove such improvements and equipment as can be removed without material injury to the premises; provided, however, that all rentals and royalties have been paid and that such removal is accomplished within two years of the termination date or before such earlier date as the lessor may set upon thirty days' written notice to the lessee. All improvements and equipment remaining upon the premises after the removal date, as set in accordance with this paragraph, shall be forfeited to the lessor without compensation.
- 8. Before lessee shall commence development or operations upon the lands embraced herein, he shall execute and file with the lessor a good and sufficient bond in the amount of \$ \cdot 000.00 in favor of the State of New Mexico, for the benefit of the lessor, its surface lessee, patentee or contract purchaser, to secure the payment of such damage to the livestock, water, crops or other tangible improvements on the lands as may be suffered by reason of development, use and occupation of the lands by the said lessee, and the lessee shall be liable and agrees to pay for all such damages to the livestock, growing crops, or other improvements upon the land. In addition, lessee shall furnish a bond in the amount of \$ \frac{100.00}{100.00} in favor of lessor to guarantee payment of royalties to become due under this lesse, or in the alternative to filing said performance bond, lessee may pay to the lessor on or before the first day of each calendar quarter of the year, in advance, the sum of \$****NIL**** as advance royalty to be credited against royalty becoming due during the quarter.

- 9. This lease is made subject to all the provisions and requirements applicable thereto which are to be found in various acts of the Legislature of New Mexico, the same as though they were fully set forth herein, and said laws, so far as applicable to this lease, are to be taken as a part hereof.
- 10. Nothing herein contained shall be held or construed to prevent the lessor from leasing or letting the said lands or any portion thereof for grazing or agricultural purposes, or for leasing them for the exploration, development and production of products from deposits other than the item, including but not limited to oil and gas, potash and coal, or for leasing them for the operation of a business, or for selling them under a deferred purchase contract with minerals reserved, or for patenting them with minerals reserved, or for the issuance of rights of way, and easements over, upon, or across them for public highways, railroads, tramways, telegraph, telephone and power lines, irrigation works, mining, logging, and for any of the purposes mentioned hereinabove in this paragraph, and for other purposes.
- 11. The lease herein is issued subject to all valid existing rights and with special but not exclusive reference to the present existence of the matters mentioned in the paragraph above.
- 12. All mining operations hereunder shall be in conformance with good mining practices, shall be carried on in a workmanlike manner, and shall be in conformance with all of the laws of the State of New Mexico and all rules and regulations of the State Land Office as may be issued from time to time under authority of law for the protection of valuable deposits of other minerals in or upon the lands but not covered by this lease.
- 13. Payment of all sums due the lessor by the lessee under the terms of this lease, including but not limited to payment for royalties and fees, shall be made at the office of the Commissioner of Public Lands, P. O. Box 1148, Santa Fe, New Mexico 87501, and after notice given, lessor may require such payments to be made in cash or certified exchange.

IN WITNESS WHEREOF, the State of New Mexico has hereunto signed and caused its name to be signed by its Commissioner of Public Lands thereunto duly authorized, with the seal of his office affixed, and the lessee has signed this agreement to be effective the day and year above written.

STATE OF NEW MEXICO المراسلة المالا OMMISSIONER OF PUBLIC LANDS Lessor Permian Brine Sales & Service, Inc President PERSONAL ACKNOWLEDGMENT STATE OF COUNTY OF The foregoing instrument was acknowledged before me on this Notary Public My Commission Expires: ACKNOWLEDGMENT BY ATTORNEY STATE OF COUNTY OF The foregoing instrument was acknowledged before me on this_ __day of___ as attorney-in-fact on behalf of___ Notary Public ACKNOWLEDGMENT BY CORPORATION STATE OF Texas

My Commission expires: ugust 31, 1978

COUNTY OF Ector

(name)

Hickerson

Texas (state or county)

The foregoing instrumen was acknowledged before me on this 10th.

President

). . .

of Permian Brine Sales & Service.
(corporation)

____corporation, on behalf of said corporat

__day of_July__



NEW MEXICO STATE LAND OFFICE Right-Of-Way and Easement

For Pipeline

RW-19824

APPLICATION NO. RW-19824			NO.	RW-19824	
THIS INDENTURE, made this	18TH da	ay of _SEI	YTEMBER	, 19 78	•
by and between the STATE OF NEW	MEXICO, a	cting by a	and throug	h	
PHIL R. LUCERO	_, its Com	missioner	of Public	Lands, gra	antor,
and PERMIAN BRINE SALES & SERVIC	E, INC.	, a c	orporati o r	n duly organ	ized
and existing under and by virtue of the	he Laws of	the State	of TEX	AS	
duly authorized to transact business	in the State	of New N	Mexico, gr	rantee.	
WITNESSETH:					
That the grantor for and in con	nsideration	of the sun	n of (\$369.	.00)
the United States, in hand paid by grants aright-of-way and easement for the newing, maintaining and operating a or any of its products, water or othe thereto, the right to erect and maint telephone and telegraph line or eithe with the use of said pipeline, together over and through the lands described included in grantee's Application Fograntor; said centerline description reference.	pantee, recepts grant to purpose of pipeline for substance tain, operater of them, er with the d by the central profession	eipt where grantee, laying, con the transes, or eite, change as may be rights of iterline de Way Ease	of is here its succesonstructing sportation her thereof, renew as necessaring essention ment and	ssors and as ag, replacing of gas, pet of, and as in and reconstruction of egress on and survey approved by	edged, ssigns, g, re- roleum ncident uct a tion , plat(s)

TO HAVE AND TO HOLD unto grantee, its successors and assigns, so long as the granted premises shall be used for the purpose above specified, or any of them, with a reversion of said lands so granted to the State of New Mexico upon the cessation of their use for said purposes, or any of them, by the grantee, its successors and assigns.

This grant is made upon the following terms and conditions:

- 1. The State of New Mexico, its lessees, permittees and assigns shall be permitted to use and enjoy the premises except as the same may be necessary for the purpose herein granted; that grantee, its successors and assigns, hereby agree carefully to avoid destruction or injury to any improvements or livestock lawfully upon said premises, carefully to close all gates and pay the reasonable and just damages for such injury or destruction, if any, arising from laying, maintaining, operating and removing said pipeline.
- 2. All pipelines laid on the said lands by virtue of this grant shall be buried not less than twenty inches (20") deep, excepting if hard rock is encountered which would require blasting, the pipeline shall be buried to the greatest depth possible without blasting, but in no such event shall the pipeline be buried less than eight (8"). Deviation of the twenty inch (20") depth must be shown on the plat accompanying the application for said right-of-way.
- 3. Pipelines laid on land subject to cultivation shall have a minimum of twenty inches (20") cover and shall be so laid as not to interfere with ordinary cultivation of such land after construction has been completed.
- 4. Grantee, its successors and assigns, shall have the right at any time to lay an additional line or lines of pipe alongside of the first line as herein provided, and to change the size of its pipe, subject to the same rights, terms and conditions as herein provided.

- 5. Grantee shall have the right to assign this Right-Of-Way and Easement, subject to the approval of grantor.
- 6. In crossing any other right-of-way, previously granted by grantor to a third party, grantee shall exercise due care so as not to interfere with said rights-of-way and will comply with all laws, rules and regulations in connection with the making of such crossing.
- 7. Grantor expressly reserves the right to authorize or grant rights-of-way and easements to third parties, which subsequent rights-of-way and easements will cross over or bisect this right-of-way. In such cases, the subsequent grantee will be required to post a bond guaranteeing payment for damages to the installations and improvements of grantee, unless such bond is waived by grantee.
- 8. Grantor reserves the right to execute leases for oil and gas, coal, and minerals of whatsoever kind and for geothermal resource development and operation and the right to sell or dispose of same and the right to grant rights-of-way and easements for the purpose of this paragraph.
 - 9. The rights granted herein are subject to valid existing rights.
- 10. Grantee, including its heirs, assigns, agents, and contractors shall at their own expense fully comply with all laws, regulations, rules, ordinances, and requirements of the city, county, state, federal authorities and agencies, in all matters and things affecting the premises and operations thereon which may be enacted or promulgated under the governmental police powers pertaining to public health and welfare, including but not limited to conservation, sanitation, aesthetics, pollution, cultural properties, fire and ecology. Such agencies are not to be deemed third party beneficiaries hereunder; however, this clause is enforceable by the grantor as herein provided or as otherwise permitted by law.
- 11. Non-user of the right-of-way and easement granted herein for a period in excess of one (1) year without the prior written permission of grantor shall be conclusive proof of abandonment and non-user for shorter periods shall place upon grantee the burden of proving that there was no intent to abandon.
- 12. Grantee shall save and hold harmless, indemnify and defend the State of New Mexico, the Commissioner of Public Lands, and his agent or agents, in their official and individual capacities, of and from any and all liability claims, losses, or damages arising out of or alleged to arise out of or indirectly connected with the operations of grantee hereunder, off or on the hereinabove described lands, or the presence on said lands of any agent, contractor or subcontractor of grantee.
- 13. Notwithstanding anything contained herein to the contrary, grantor may cancel this grant for violation of any of the covenants of this agreement; provided, however, that before any such cancellation shall be made, grantor must mail to grantee or approved assignee, by registered or certified mail, addressed to the post office address of such grantee or assignee, shown by the records, a thirty (30) day notice of intention to cancel said grant, specifying the default for which the grant is subject to cancellation. No proof of receipt of notice shall be necessary and thirty (30) days after such mailing, the grantor may enter cancellation unless the grantee shall have sooner remedied the default.

IN WITNESS WHEREOF, the State of New Mexico has caused this instrument to be executed by its Commissioner of Public Lands, thereunto duly authorized, with the seal of his office affixed, the day and year first above written.

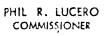
STATE OF NEW MEXICO

(SEÁL)

COMMISSIONER OF PUBLIC LANDS

State of New Mexico





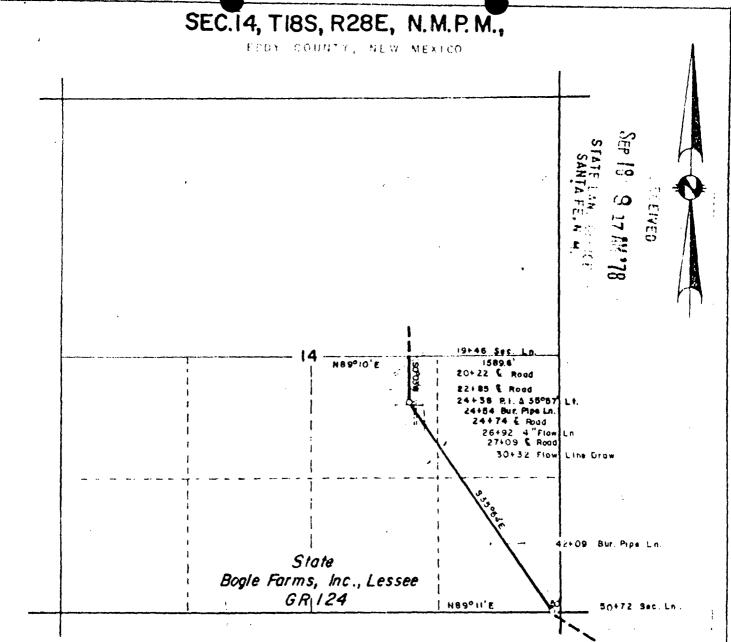


Commissioner of Public Lands

P. O. BOX 1148 SANTA FE, NEW MEXICO 87501

*	'	Reference	RW-19624
	N BRINE SALES & SERVICE, INC. OX 1591		
	, TEXAS 79760		Letter No. 14-11-4
	,		7-78
SUBJECT:	THE ATTACHED DOCUMENT IS FOR YOUR INDICATED WITH CHECK MARKS.		THE REQUIREMENTS
1.	Please sign enclosed copy(ies) on Public and return in order to comp		
2.	Enclosed referenced assignment(s)	transferred by and appro	ved by Commissioner
3.	Assignment(s) will not be accepted Strikeover(s) in description, Incomplete description, re-issue a new assignment.	Executed o	n improper forms,
4.	Please furnish this office with \$5 \$1,000.00 Blanket Damage Bond, as approved.		
5.	Lands applied for are under Purcha consent from	. Your a	u must obtain written pplication will be held
	in abeyance awaiting this consent.		
6. KXX	Approved copy(146) of your RIGHT enclosed for your files.	OF WAY AND EASE	MENT (is/h/t/e/)
7.	Other:	· .	
72	mple Band	,	
	O. PRANDO, Supervisor	~	
	I LEASING AND FILING		
TELEPH		1.	
FOP:tg			
			

FL-3 Rev. 9/71



DESCRIPTION OF RIGHT-OF-WAY

A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

Beginning at Eng. Sta. 19+46, a point on the north boundary line of the south half of Section 14, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, from which the east quarter corner of the said Section 14 bears north 890101 east a distance of 1589.6 feet; thence, south 00031 west, crossing the State of New Mexico land a distance of 492 feet to Eng. Sta. 24+38; thence, south 35°54' east a distance of 2634 feet to Eng. Sta. 50+72, a point on the south boundary line of the siad Section 14, from which the southeast corner of the said Section 14 bears north 89011' east a distance of 50 feet.

The said tract of land contains 2.15 acres, more or less, all within the said Scotton 14. and is allocated by forties as follows:

STATE 676

NWL SEL 0.71 acres NET SET 0.31 acres SEt SEt 1.13 acres

WE MEREOV CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPER-VISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

> L S NO.676 RPS NO. 1138

> RONALD J EIDSON, N.M. TEXAS R.P.S.

PERMIAN BRINE SALES & SERVICE, INC.

Proposed water pipeline crossing the State of New Mexico land in Section 14, Township 18 South, Range 28 East, N. M. P. M., Eddy County New Mexico.

JOHN W. WEST ENGINEERING COMPANY

CONSULTING ENGINEERS HOBBS, NEW MEXICO

1" - 10001 Scale by: Date: Sept. 7, 1978 Sheet

SEC.23, TIBS, R28E, N.M.P.M.,

EDDY COUNTY, NEW MEXICO

Sec. Line

State Bogle Forms, Inc., Lessee GR 124

DESCRIPTION OF RIGHT-OF-WAY

A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

Beginning at Eng. Sta. 50+72, a point on the north boundary line of Section 23, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, from which the northeast corner of the said Section 23 bears north 89011 east a distance of 50 feet; thence, south 450001 east, crossing the State of New Mexico land a distance of 70.4 feet to Eng. Sta. 51+42.4, a point of the east boundary line of the said Section 23, from which the northeast corner of the said Section 23 bears north 0°14' east a distance of 50.5 feet.

The said tract of land contains 0.05 acres, more or less, all within the said Section 23, and is allocated by forties as follows:

NET NET 0.05 acres

I HEREBY MADE FROM NOTES IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPER-VISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

RONALD J. EIDSON, N.M. NO. R.P.S. TEXAS 1883 NO

NO.676 NO. 1138

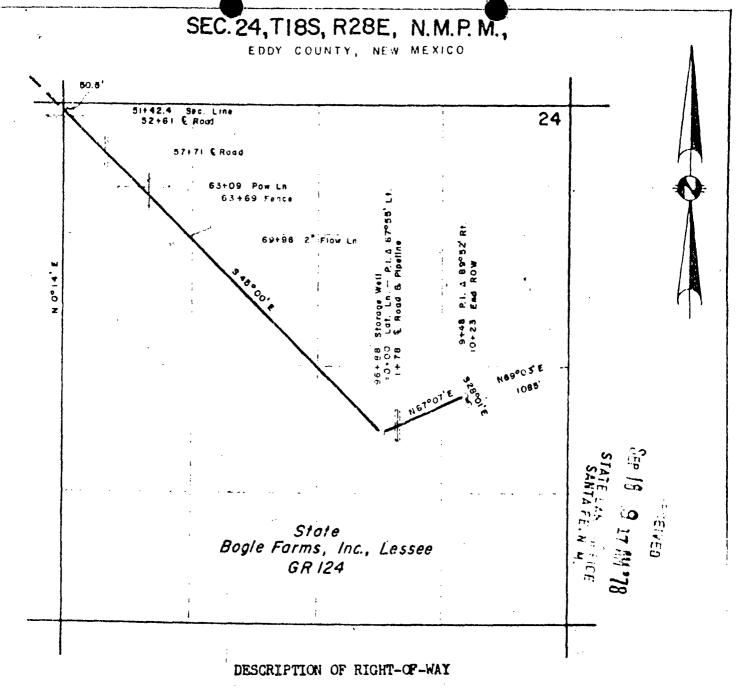
South, Range 28 East, N. M. P. M., Eddy County, New Mexico. JOHN W. WEST ENGINEERING COMPANY

of New Mexico land in Section 23, Township 18

PERMIAN BRINE SALES & SERVICE, INC.

water pipeline crossing the State

HOBBS, NEW MEXICO CONSULTING ENGINEERS cho Scale: 1" = 3001 Drawn by: Sept. 7, 1978 Sheets Sheet



A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

Beginning at Eng. Sta. 51+42.4, a point on the west boundary line of Section 24, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, from which the northwest corner of the said Section 24 bears north 0014' east a distance of 50.5 feet; thence, south 45000' east, crossing the State of New Mexico land a distance of 4545.6 feet to Eng. Sta. 96+88 equals Eng. Sta. 0+00; thence, north 67007' east a distance of 948 feet to Eng. Sta. 9+48; thence, south 28001' east a distance of 75 feet to Eng. Sta. 10+23, ending this right-of-way, from which the east quarter corner of the said Section 24 bears north 69003' east a distance of 1085 feet.

The said tract of land contains 3.84 acres, more or less, all within the said Section 24, and is allocated by forties as follows:

ENGINEEN 1.22 acres

676

SE1 NW1 1.21 acres NE1 SW1 0.04 acres NW1 SE1 1.09 acres NE1 SE1 0.23 acres

HEREPY CENTIFY THAT THIS PLAT WAS MADE FROM HOESS TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W. WEST, N.M. P.E. B. L.S. NO.676 TEXAS R.P.S. NO. 1138

RONALD J. EIDSON, N.M. L.S. NO 3239 TEXAS R.P.S. NO 1883 PERMIAN BRINE SALES & SERVICE, INC.

19821

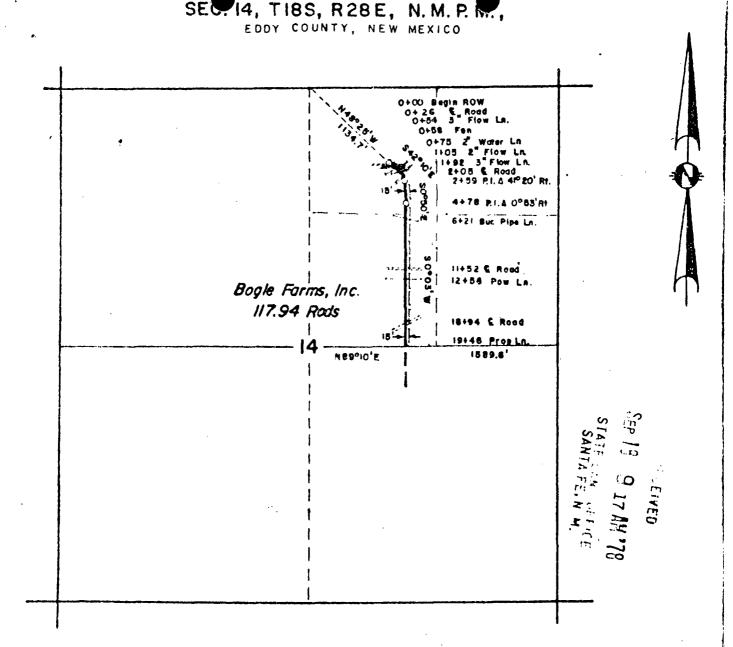
Proposed water pipeline crossing the State of New Mexico land in Section 24, Township 18 South, Range 28 East, N. F. P. M., Eddy County New Mexico.

JOHN W. WEST ENGINEERING COMPANY

CONSULTING ENGINEERS HOBBS, NEW MEXICO

Scale: 1" = 1000' Drawn by: chb

Date: Sept. 8, 1978 Sheet 1 of 1 Sheets



DESCRIPTION OF RIGHT-OF-WAY

A strip of land 30 feet wide being 15 feet right and 15 feet left of the following described survey of centerline:

Beginning at Eng. Sta. 0+00, from which the north quarter corner of Section 14, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico bears north 48°25' west a distance of 1134.7 feet; thence, south 42°10' east, crossing the Bogle Farms, Inc. property a distance of 259 feet to Eng. Sta. 2+59; thence, south 0°50' east a distance of 219 feet to Eng. Sta. 4+78; thence, south 0°03' west a distance of 1468 feet to Eng. Sta. 19*46, a point on the south boundary line of the north half of the said Section 14, from which the east quarter corner of the said Section 14 bears north 89°10' east a distance of 1589.6 feet.



117.94 Rods

The said tract of land contains 1.34 acres, more or less, all within the said section 14, and is allocated by forties as follows:

NW4 NE4 SW4 NE4 0.43 acres

0.91 acres

MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W. WEST, N.M. PE. & L.S. NO.678 TEXAS R.P.S. NO. 1138

RONALD J. EIDSON, N.M. L.S. NO. 3239 TEXAS H.P.S. NO. 1883 PERMIAN BRINE SALES & SERVICE, INC.

Proposed water pipeline crossing the Bogle Farms, Inc. property in Section 14, Township 18 South, Range 28 East, N. M. P. M., Eddy County, New Mexico.

JOHN W. WEST ENGINEERING COMPANY
CONSULTING ENGINEERS HOBBS, NEW MEXICO
Scale: 1" * 1000" Drawn by: chb

Scale: 1" 1000" Drawn by: ohb
Date: Sept, 7, 1978 Sheet 1 of 1 Sheets



NEW MEXICO STATE LAND OFFICE APPLICATION FOR RIGHT-OF-WAY EASEMENTY 8

COMMISSIONER OF PUBLIC LANDS State Land Office Santa Fe, New Mexico 87501

Dear Sir:	
The Permian Brine Sales & Service. Inc. a pineline land for the purpose of Transporting fre	a Texas hereporation an application for Right-of-Way Easement across State to make brine
Enclosed herewith are two copies of survey placenterline, also the legal description of the acre tracts and certified by a New Mexico registerveyor or land surveyor duly qualified undes	proposed right of way allocated by forty istered professional engineer and land
Enclosed herewith are: (Either of the follow damages that might accrue to any improvements () Consent to right-of-way and waiver of A bond in the amount of \$500.00 for	to surface lessee.)
<pre>(x) A blanket bond in the amount of \$2,5 Office.</pre>	00.00 is on file with the State Land
Enclosed is a draft in the amount of \$ 300 \$ 50.00 per acre, plus \$10.00 applicat	
P. 1982 P.	ermian Brine Sales & Service, Inc. Box 1591, Odess Texas 79760 Address
I, A.L. Hickerson, President of (Specify applicant, attorney	the in fact, or officer of corporation)
above named applicant, do solemnly swear that application is true and correct to the best o	
Dated this 14th. day of	September, 1 19 78
	f 1 deckerson
By	President Attorney in Fact or Authorized Agent
State of	mesorner an race or admiorrace agenc
County of Ector)	
Subscribed and sworn to before me by Permian Brine Sales & Service. Inc	A.L. Hickerson - President of
(Applicant, agent, attorney in f the above named applicant, this 14th day	act, or officer of corporation)
	Mana Seland
My Commission expires:	NOTARY PUBLIC - In and for Ector County, Texas
8-31-79	
Will a go	771 1



PERMIAN BRINE SALES & SERVICE, INC.

NEW MEXICO STATE LAND OFFICE

APPRAISEMENT OF STATE INSTITUTIONAL LANDS
FOR right-of-way PURPOSES

B 9 17 M 78

To the Commissioner of Public Lands, Santa Fe, N. M.

SIR:

P.19824

Subdivision				
Subdivision	Sec.	Twp.	Range	Acres
See Exhibit				
Attach Exhibit if more space is needed for entire des		r to comp	lete answer	s below
Answer the following questions in all appraisals:	and the second s			
State the best use for which the land may be adapted State what other uses, if any, it may be or is being to what is the general terrain or topography of the land What type(s) of soil? gravelly fine sand loam. If so, what type and to what extent? severe win What kind of vegetation is on the land, including grass rama, little bluestem, Javelina, snakeweed, is the land cultivated, grassland, or other? grass If cultivated, is it dry land or irrigated farm land?	lsed for level Are sses, if any sand muhleland	none to gentle there are y? blue p y, sand	y sloping y signs of e grama, bla sagebrush	erosion? <u>yes</u> ck grama, side-o
Are there natural streams, rivers, springs, ponds, same none State kind of merchantable timber, quality, and pres What irrigation ditches are on the land? If none, the	sent conditi	on, if any	none_	
12 miles west to the Pecos River Vallety State the number of wells, depth, and type, on the la other purposes none	ind, whether	er used fo	r domestic	, irrigation, or
State nearest distance to city, town, or village limit 12 miles northwest. Are there any existing or abandoned utility (electric, public roads or highways, pipelines, borrow pits, m reservoirs, airports, land strips, or trash dumps of describe and give approximate location none are found on the land, are they a benefit or detriment List all improvements, their location, and value (instables, their sizes and how built; wells and their deamount, kind, and length; and all other improvements.	telephone aterial pit in the land? In to the land? Sudding, but to the land depth and de	or teleges, cooper none nd? Expl t not limiscription;	graph) lines ative irrigs ain none ted to, hou	If so, please If any of the above ses, barns,
Name and address of present owner of improvements . State if any tre any existing natural products thereon, and in what m from the value of the land only the trespass to	espass or vanner, by	vaste has whom if l	nown, and	
Does the land have any recreational potential, such a	as cabin si	les, etc?	Explain	none
Answer the following questions in specific category	or winers	parea no	Ts male e	y applicant:
BUSINESS LEASE: If known, what type of business is the land going to both or is the land being leased for speculative purposes,	, if known?	١		
Estimate how much the parcel would lease for on a y	early basis	s for com	inci ciai pu	t boaca

Retion

GR-45

1.12 1 2015

kinds of businesses or uses to which surrounding properties are being put			
State what (type and kind) improvements are located on this land that are beneficial to and consistent with business or commercial use of this land			
RIGHT OF WAY AND WATER EASEMENT: Is this State land within a declared water basin? Capitan Water Basin Will the construction or use of this right of way (water easement) increase or decrease the value of surrounding State lands? increase How? Have you examined the plat (survey for right of way) accompanying the application? yes If yes, then is the acreage (width) requested sufficient or excessive for purposes of the right of way?			
What tangible surface damage, if any, will occur to other state lessees or patentees by the proposed salt water disposal site, roadway, or pipeline?			
Based upon your examination of the land applied for, is there an existing abandoned dry hole(s) located thereon? To what depth, if known			
How? Provide water for making brine for drilling of Oil and Gas Wells.			
AFFIDAVIT			
STATE OF NEW MEXICO) ss County Lea)			
- 30			
I am well acquainted with the character of said described land and that my personal knowledge of said land is such as to enable me to testify understandingly with regard thereto. After having personally inspected the within described tract of land, I HEREBY APPRAISE THE SAME at and state the ACTUAL CASH VALUE of same for the purpose desired to be \$50.00 per acre (indicate per acre, square foot, or other), and certify that I am not interested in said land or leasing or sale thereof. Signed All North Dal Paso Hobbs, New Mexico 88240			
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EXHIBIT

Subdivision	Sec.	Twp.	Range	Acres
NEL SEL SEL SEL NEL NEL NWL NWL SWL NWL SEL NWL NEL SWL NWL SEL NWL SEL NWL SEL NWL SEL NWL SEL NWL SEL NWL SEL	14, 14, 14, 23, 24, 24, 24, 24, 24,	185 185 185 185 185 185 185 185 185	28E 28E 28E 28E 28E 28E 28E 28E 28E	0.71 0.31 1.13 0.05 1.22 0.05 1.21 0.04 1.09 0.23
St	ub-Total			6.04
NW4 NE4 SW4 NE4 St	14 14 1b-Total	18S 18S	28E 28E	$\begin{array}{r} 0.43 \\ -0.91 \\ \hline 1.34 \end{array}$
	Total			7.38

P.19824

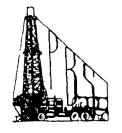
SEP 18 9 17 AM ...
STATE SANTA FE WEIGE



NEW MEXICO STATE LAND OFFICE CEIVED CONSENT TO RIGHT-OF-WAY AND WAIVER OF PROPERTY DAMAGE BOND 59 AM '78

STATE LAND OFFICE SANTA FE. N. M

FOR AND IN CONSIDERATION OFTEN	AND NO/100	DOLLARS
(\$ 10.00) TO (ME,US) IN HAND PAID, TH	E RECEIPT OF WHICH IS HI	EREBY ACKNOWLEDGED
BY NERNKANXERINEXEXESXEXES	THE THE TAX TH	
BOGLE FARMS, INC.	-	•
ON THE FOLLOWING DESCRIBED STATE LAND IN	_	
NEW MEXICO , UND	ER GRAZING LEASE NO	······································
SUBDIVISION S	EC. TWP.	RGE.
	4 188	28E
	4 185	28E
	3 · 18S	28E
and the second s	4 185	28E
	4 185	28E
	4 18S	28E
NE' SW' 2		28E
	4 18S	28E
NE¼ SE¼ 2	4 18S	28E
GRINE SALES & SERVICE, INC., ITS S (APPLICANT) GRANTED TO IT BY A CERTAIN RIGHT-OF-WAY AG		
EXECUTED BETWEEN PERMIAN BRINE SALES &	SERV.INÇ AND THE COMM	ISSIONER OF
(APPLICANT) PUBLIC LANDS OF THE STATE OF NEW MEXICO, W	ITH THE UNDERSTANDING T	HAT THE DAMAGES,
IF ANY ACCRUING FROM THE EXERCISE OF THE R	IGHTS THEREIN GRANTED,	TO ANY CROPS OR
OTHER PROPERTY OF SAID BOGLE FARMS	(GRAZING LESSEE)	
SHALL BE PAID TO SAID GRAZING LESSEE.	(GRAZING EESSEE)	
DATED 9-20 , 19 78	- •	
	Ru	11-19824
WITNESSES:	DOGER BADNE THE	
	BOGLE FARMS, INC.	
(Xluss Glorist	LESSEE	
ADDRESS 8310	BY: Millard Der	ick
Vicku S. Deland	PERMIAN BRINE SALE	S & SERVICE, INC
Colesia, Texas	BY A THE	dierden
ADDRESS	RIGHT-OF-WAY A. L. Hickerson, P	



P. O. BOX 1591

PERMIAN BRINE SALES, INC.

24-HOUR BRINE SERVICE THROUGHOUT THE PERMIAN BASIN

ODESSA, TEXAS

79760

PHONE 332-0531

SUPPLEMENT TO ASSIGNMENT & BILL OF SALE STATE 24 - ARTESIA STATION

PERMIAN BRINE SALES, INC. further covenants that it does not have any liens, liabilities or commitments against the brine wells or the facilities connected thereto. PERMAIN BRINE SALES, INC. has not entered into any agreements obligating the brine station or B & E, INC.

IN WITNESS WHEREOF, we have executed this Supplement, effective April 30, 1983.

STATE OF TEXAS

COUNTY OF ECTOR

BEFORE ME, the undersigned, A Notary Public in and for said County and State, on this day personally appeared A.L. Hickerson, known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that the same was the act of the said PERMIAN BRINE SALES, INC., a corporation, and that he executed the same as the act of such corporation for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the Ml4 , A.D., 1983.

NOTARY PUBLIC COUNTY, TEXAS

DENISE D. FORT

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION

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

November 26, 1985

Phil and Julie Withrow B&E, Inc.
700 North Shipp
Hobbs, NM 88240

Dear Mr. and Mrs. Withrow:

Enclosed is a revised Assurance of Discontinuance which I prepared on the basis of the Assurance which Stan Watson of Quality Brine put together for you. I have enclosed a copy of that earlier version of the Assurance so you can see what has been changed. These changes were mainly recommended by our EID legal counsel upon review of your earlier Assurance.

The most important changes are as follows:

- (1) Third WHEREAS, first page: I have added the fact that you have conducted a recent pressure test on the brine well. This information was provided with the first portion of the discharge plan for the "State 24-1" Brine Station, received at EID on November 15. This is the best indication we have that the brine well is not causing contamination of ground water.
- (2) SCHEDULE OF COMPLIANCE: rather than requiring the discharge plan to be submitted in stages, you are required to submit a complete discharge plan four months after the Assurance is approved, and we then have another nine months to negotiate particular terms of the discharge plan between us. The materials that you have already submitted will count toward your discharge plan. I have enclosed an outline to guide the submittal of an injection well discharge plan.
- (3) The "NO ADMISSION" language of Paragraph 6 has been replaced by a section on PENALTIES.

If you have any questions on the enclosed revised Assurance, please contact me by phone (827-2901) on Wednesday, November 27th. The reason for the rush is that Thursday and Friday of this week are holidays, and in order to have your Assurance placed on the agenda for the Water Quality Control Commission meeting of December 10th, I must receive it back from you with a notarized signature no later than the morning of Tuesday, December 3rd. If you will be sending it in so that I will receive it Tuesday morning, please give me a call on Monday, December 2nd, so that I can advise the Commission secretary to place your Assurance on the agenda. We will need to have your Assurance in hand, however, before the agenda goes out to the Commissioners on Tuesday, or else your agenda item will be removed.

I apologize for the last-minute rush, and will very much appreciate your cooperation in meeting this deadline. It is to your advantage to enter into this formal agreement with the Commission, so that you will be assured that EID will not take action against you for remaining in operation without an approved discharge plan.

Thank you for submitting the additional information that I requested from Mr. Monk in order that I could support your Assurance before the Commission.

Sincerely,

Paige Grant Morgan

Water Resource Specialist

PGM:pgm

cc: Richard Perkins, Acting Chief, Ground Water/Hazardous Waste Bureau Louis Rose, EID Legal Bureau John Guinn, EID District IV Manager

ASSURANCE OF DISCONTINUANCE

WHEREAS, on September 18, 1985, staff of the New Mexico Environmental Improvement Division (EID) requested Phil and Julie Withrow, owners of B&E, Inc, to submit a Discharge Plan pursuant to Sections 3-104 and 5-101.B.3 of the New Mexico Water Quality Control Commission (Commission) regulations for discharges from the brine facility and brine well "State 24-1", located in Section 24, Township 18 South, Range 28 East, N.M.P.M., Eddy County, New Mexico; and

WHEREAS, neither the regulations nor an extension to discharge without an approved Discharge Plan issued by the Director, nor any Court Order, allows B&E, Inc. to operate an injection well and associated surface facilities beyond December 20, 1982, and discharges at "State 24-1" Brine Station therefore constitute a violation of Section 5-101.B.3 of the Commission regulations and of Section 74-6-5 of the Water Quality Act; and

WHEREAS, the following information indicates that there is no present contamination of drinking water sources as a result of this operation:

(a) A 24-hour pressure test of the well casing and salt cavity indicated no leakage from the injection well;

(b) An inspection by EID staff indicated no sources of potential ground water contamination by surface activities; and

(c) A representative of the State Engineer's Office has reported that no water wells exist within three miles of the "State 24-1" Brine Station; and

WHEREAS, B&E, Inc. has committed to the Commission to proceed with all diligence to prepare and secure an approved Discharge Plan; and

WHEREAS, the Commission and B&E, Inc. deem it appropriate to enter into this Assurance of Discontinuance.

B&E, Inc. assures the Commission as follows:

1. <u>ASSURANCE</u>: A Discharge Plan shall be prepared for the "State 24-1" Brine Station according to the schedule in Paragraph 2, thus discontinuing the practice of operating a brine well without a Discharge Plan in violation of Section 5-101.B.3 of the Commission regulations. This Assurance shall expire concurrently with the approval or disapproval of the Discharge Plan. If the Discharge Plan is approved, all operations at the facility shall be consistent with the terms of the Discharge Plan. If the Discharge Plan is disapproved, all injection operations and the use of associated surface facilities at the "State 24-1" Brine Station shall be terminated.

2. <u>SCHEDULE OF COMPLIANCE</u>: It is agreed that preparation of the Discharge Plan shall comply with the following schedule:

A. B&E, Inc.shall submit to EID a complete Discharge Plan which shall address all applicable requirements of the Commission regulations

on or before April 10, 1986

B. EID shall complete review of Discharge Plan application and shall provide comments to B&E, Inc.

on or before June 10, 1986

C. B&E, Inc. shall submit responses to the EID comments to EID

on or before August 10, 1986

D. EID shall review materials submitted under C and shall provide comments to B&E, Inc.

on or before October 10, 1986

E. B&E, Inc. shall respond to EID comments provided under D

on or before November 10, 1986

F. EID Director's approval or disapproval of the Discharge Plan shall be promulgated

on or before January 10, 1987

If a public hearing is scheduled by the EID Director pursuant to Section 3-108 of the Commission's regulations, all deadlines in Paragraphs 2.B through 2.F shall be 45 days later.

- 3. <u>MUTUAL COOPERATION</u>: B&E, Inc. and the EID shall mutually cooperate in accomplishing on a timely basis the matters contemplated by this Assurance. In this respect, direct communication among B&E, Inc. representatives and EID personnel is encouraged.
- 4. EXTENSIONS FOR GOOD CAUSE: It is expressly agreed and understood by the parties hereto that events not reasonably foreseeable on the date of execution of this Assurance may occur which will make it impossible or extremely difficult for B&E, Inc. to comply in a timely fashion with those compliance dates set out in numbered paragraph 2. In the event such unforeseen events do occur, B&E, Inc. may apply to the Commission for an extension for an additional reasonable period of time-to-comply with such tasks in numbered paragraph 2. The additional reasonable period of time, if granted, shall in all cases be governed by the relevant circumstances.
- 5. ENFORCEMENT: The Commission shall not undertake enforcement against "State 24-1" Brine Station for the continuation of current discharges occurring during the pendency of this Assurance without first giving B&E, Inc. 15 days prior written notice by the Director that he is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under Section 74-6-11 N.M.S.A. 1978.

Failure by B&E, Inc. to comply with any condition of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under Sections 74-6-5 and 10 N.M.S.A. 1978, as applicable.

Nothing in this Assurance of Discontinuance shall relieve B&E, Inc. from the responsibility for complying with all the provisions of the Water Quality Act, the regulations promulgated thereunder or any other provision of law except as otherwise specifically provided herein.

6. PENALTIES: The Commission's approval of this Assurance of Discontinuance does not imply that the Commission waives the right to seek penalties for violations occurring prior to its approval of the Assurance, pursuant to Section 74-6-10.B.N.M.S.A. 1978, if B&E, Inc. should violate any term of this Assurance.

Signed and acknowledged this	_day of	, 19
•		
	Phil or Julie Wi	throw
		€ [*]
		.
ACKNOWLED		, i
(choose appro	priate form)	
1. Natural Person		
*STATE OF NEW MEXICO)
COUNTY OF (place where notarized)		: SS)
The foregoing instrument was ack	cnowledged bef	ore me this day o
My Commission expires:		
	Nota	ry Public
* (Note: If the Assurance is signed and ack	nowledged outs	ide New Mexico, the

name of the state should be inserted.)

2. Partnership, by one or more partners	
*STATE OF NEW MEXICO)
COUNTY OF	: SS)
The foregoing instrument was, 19, by(nam	acknowledged before me this day of e of acknowledging partner or partners) , partner(s) on behalf , a partnership.
of (name of partnership)	, a partnership.
My Commission expires:	
	Notary Public
3. <u>Limited partnership</u> , by one or more of	general partners
*STATE OF NEW MEXICO)
COUNTY OF	
The foregoing instrument was , 19, by (nar	acknowledged before me this day of me of acknowledging general partner or , partner(s), on behalf of (name of , a limited partnership.
limited partnership)	, a limited partnership.
My Commission expires:	
·	Notary Public
4. Corporation or incorporated associated	<u>tion</u>
*STATE OF NEW MEXICO)
COUNTY OF	: SS)
The foregoing instrument wa	s acknowledged before me thisday of
(title of officer), 19, by (r	, of (name of corporation acknowledging (state of corporation) corpoation, on behalf
of the corporation.	
My Commission expires:	
	Notary Public

APPROVAL

WATER QUALITY CONTROL COMMISSION

	WATER QUALITY CONTINUE COMMISSION
	By: Denise Fort, Chairman Water Quality Control Commission
STATE OF NEW MEXICO)	
: SS COUNTY OF SANTA FE)	
The foregoing instrumen , 19 , by,	t was acknowledged before me this day o d/b/a
My Commission expires:	
	Notary Public
) .

ASSURANCE OF DISCONTINUANCE

WHEREAS, on	, the Director of the New
(date) Mexico Oil Conservation Division (OCD)/E	
(EID) requestedp_g	
Commission (Commission) Regulations for	
, , ,	•
brine well STATE 24 - 1 (name of facility) 18 North/South, Range 28 East/We	
County, New Mexico; and	
WHEREAS, neither the regulation	ns nor an extension to discharge
without an approved Discharge Plan issu	ed by the Director, nor any Court
Order, allows B & E INC. (owner)	to operate an injection well and
associated surface facilities beyond	
WHEREAS, the following informa	tion indicates that there is no present
contamination of drinking water sources	: SEE ATTACHED EXHIBIT A
LINEDEAC D. O. E. TVIO	; and
WHEREAS, B & E INC (owner)	has committed to the
Commission to proceed with all diligent	te to prepare and secure an approved
Discharge Plan; and	
WHEREAS, the Commission and	B & E INCdeem it
appropriate to enter into this Assurance	,
B & E INC (owner)	_ assures the Commission as follows:

1. ASSURANCE: A discharge plan shall be prepared for the		
STATE 24 - 1 Brine Facility according t	o the schedule in Paragraph 2.	
This Assurance shall expire concurrently wi	th the approval or disapproval of	
the discharge plan.		
2. SCHEDULE OF COMPLIANCE: It is	agreed that preparation of the	
Discharge Plan shall comply with the follow	ring schedule:	
A. B & E INC (owner) shall submit plans and specifications		
of the in situ extraction well to the		
EID	on or before	
B. B & E INC (owner) shall submit a proposal outlining measures		
to be taken to correct any possible violati	ion (
of the Water Ouality Control Commission	·	
Regulations resulting from surface	•	
activities	on or before	
C. EID shall complete review		
of materials submitted under Paragraph	·	
2.A and B and shall provide comments to		
B & E INC (owner) D. B & E INC (owner)	on or before	
shall submit the information listed in		
§ 5-102.B.1d and the information listed		
in § 5-203.A of the Water Quality Control		
Commission Regulations to the EID	on or before	

E. EID shall complete review		
of materials submitted under Paragraph		
2.D herein and EID shall provide		
comments to B & E INC (owner) F. B & E INC (owner) shall submit a complete Discharge Plan	on or before	
which shall address all applicable		
requirements of the Water Quality Contr	01	
Commission Regulations, Parts 3 and 5	on or before	T
G. EID shall complete review		
of Discharge Plan Application and EID		
shall provide comments to(owner) B & E INC	on or before	i.
H. B & E INC (owner) shall submit responses to the EID	A	
comments	on or before	
I. EID Director's approval		
or disapproval of Discharge Plan	•	,
Application shall be promulgated	on or before	· · · · · · · · · · · · · · · · · · ·
If a public hearing is schedul	ed by the EID Director	r pursuant to
§ 3-108 of the Commission's Regulations	s, all deadlines in Pa	ragraphs 2.G
through 2.1 shall be 45 days later.		
3. MUTUAL COOPERATION: B &	F INC	and the EID
shall mutually cooperate in accomplish	(owner) ing on a timely basis	the matters
contemplated by this Assurance. In th	is respect, direct com	municatjon among
STATE 24 - 1 representation represen	ntatives and EID perso	nnel is encouraged

4. EXTENSIONS FOR GOOD CAUSE: It is expressly agreed and understood				
by the parties hereto that events not reasonably foreseeable on the date of				
execution of this Assurance may occur which will make it impossible or				
extremely difficult for <u>B & E INC</u> to comply in a timely (owner)				
fashion with those compliance dates set out in numbered paragraph 2. In the				
event such unforeseen events do occur, B & E INC may apply (owner)				
to the Commission for an extension for an additional reasonable period of time				
to comply with such tasks in numbered paragraph 2. The additional reasonable				
period of time, if granted, shall in all cases be governed by the relevant				
circumstances.				
5. <u>ENFORCEMENT</u> : The Commission shall not undertake enforcement				
against STATE 24 - 1 for the continuation of current (brine facility)				
discharges occurring during the bendency of this Assurance without first diving				
B & E INC 15 days prior written notice by the Director (owner)				
that is in violation of the terms of this				
Assurance. This Paragraph shall not preclude appropriate action by the				
Director or the Commission under § 74-6-11 N.M.S.A. 1978.				
Failure by B & E INC to comply with any condition (owner)				
of this Assurance of Discontinuance shall be actionable as a violation of the				
Water Quality Act and of this Assurance under §§74-6-5 and 10 N.M.S.A. 1978,				
as applicable.				
Nothing in this Assurance of Discontinuance shall relieve (owner)				
B & E INC from the responsibility for complying with all the				
provisions of the Water Quality Act, the regulations promulgated thereunder or				
any other provision of law except as otherwise specifically provided herein.				

6. NO ADMISSION: The terms, execution and any conduct in acco	rdance
herewith shall not constitute an admission of any kind by <u>B & E INC</u> (owner)	
relating to matters under the Water Quality Act, Commis	sion
Regulations, or any other matters relating to health or environment.	
Signed and acknowledged this <u>30th</u> day of <u>OCTOBER</u> ,	19 <u>85</u> .
	,
B4Felin a Parales	سعدلالأ
(ดพกัยา)	
STATE OF NEW MEXICO)	
: SS	
COUNTY OF SANTAFE)	
The foregoing instrument was acknowledged before me this) day
of OCTOBER, 1985, by Phil Withrow d/b/a BLE I	<u> EWC.</u>
My Commission Expires:	
7-2-88 Rosemary Lette	~
Notary Public	

		APPROVED:	
		WATER QUALITY CONTRO	L COMMISSION
		Ву	
		Denise Fort, Chai	rman
		Water Quality Cor	trol Commission
STATE OF NEW MEXICO)		
	: SS		
COUNTY OF SANTA FE)		
The foregoi	ing instrument was ackn	owledged before me th	is day
of,	, 19, by Denise Fort	, Chairman of the Wate	er Quality
Control Commission,	on behalf of the Water	Quality Control Comm	ission.
My Commission Expire	2S:	·.)
		Notary Public	

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STATE OF NEW MEXICO

STATE ENGINEER OFFICE ROSWELL

S.E. REYNOLDS STATE ENGINEER October 16, 1985

DISTRICT 2

908 EAST 2ND ST.

P.O. BOX 1717

ROSWELL, NEW MEXICO BB201

B and E Inc. Box 2292 Hobbs, New Mexico 88240

Gentlemen:

In accordance with your request regarding fresh water zones in the vicinity of your brine station located in the SE½ of Section 24, Township 18 South, Range 28 East, please be advised that there are no water wells within three miles of your location.

The closest well is located in the NE½NW½NE½ of Section 21, Township 18 South, Range 28 East. This well is completed in the Artesia Group. A water sample collected from this well on April 10, 1969 had a chloride concentration of 134 parts per million.

Xours truly,

James I. Wright Field Engineer

JIW/tmg cc Santa Fe

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INFORMATION SHEET TO ACCOMPANY IN SITU EXTRACTION WELL OUTLINE

The purpose of a discharge plan is to provide the technical staff of the regulating agency (in this case, EID) with sufficient information about your operation to demonstrate that your activities will not degrade the quality of ground water that contains less than 10,000 mg/l of total dissolved solids (TDS).

Please note that the word "discharge" covers inadvertent as well as intentional discharge - i.e., leaks and spills. It is necessary in your discharge plan to anticipate where any leaks or spills might occur, to indicate how you will guard against such accidents, and to develop a monitoring system to warn you when they have occurred.

In the event of a leak, spill, casing rupture, or any type of accidental discharge of a water contaminant (as defined in Section 1-101.BBB of the Water Quality Control Commission (WQCC) Regulations) you are required to notify the Ground Water and Hazardous Waste Bureau of EID and take whatever measures are necessary to avoid contamination of surface water or ground water with TDS less than 10,000 mg/l. Similarly, if you plan any significant change in your operation once your discharge plan is approved, you are required to notify this agency, and have the modification approved prior to its implementation.

The following outline condenses the requirements stated in the WQCC Regulations for operations like yours, and sets up a logical sequence in which to present the information required in your discharge plan. Using this format is optional. The final reference for what must be contained in your discharge plan is the WQCC Regulations. The codes in bold type in the outline refer to Sections of the WQCC regulations, for your convenience.

As an in situ extraction well operator, you may either submit a complete discharge plan and have it approved prior to drilling or constructing an in situ extraction well; or you may submit only those portions of this outline that are underlined, by way of "Notification" to the Director of EID at least 90 days prior to beginning construction that you plan to begin construction of an in situ extraction well or well field. You must subsequently receive approval of a complete discharge plan for your facility prior to going into operation, if you take this alternative approach. The advantage of the alternative approach is that it may allow you to start up operations more quickly than **T you wait for complete discharge plan approval. The disadvantage is that if you have constructed the well or wells in a fashion that is not approvable by EID, you may never receive permission to operate those wells. For this reason, if you plan to use the alternative approach, it is important to consider carefully the comments of EID technical staff on the material you submit with your Notification.

The attached flow charts summarize the two approaches to obtaining approval for an in situ extraction operation in New Mexico.

B & E , INC

Brine Sales Well St. 24 No. 1

Phil Withrow

P. O. Box 5967

Hobbs, N. M. 88241

505-393-0762

Nov. 1, 1985



STATE OF NEW MEXICO

STATE ENGINEER OFFICE ROSWELL

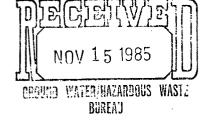
S.E. REYNOLDS
STATE ENGINEER

October 16, 1985

DISTRICT 2 909 EAST 2ND ST. P.O. BOX 1717 ROSWELL, NEW MEXICO BB201

B and E Inc. Box 2292 Hobbs, New Mexico 88240

Gentlemen:



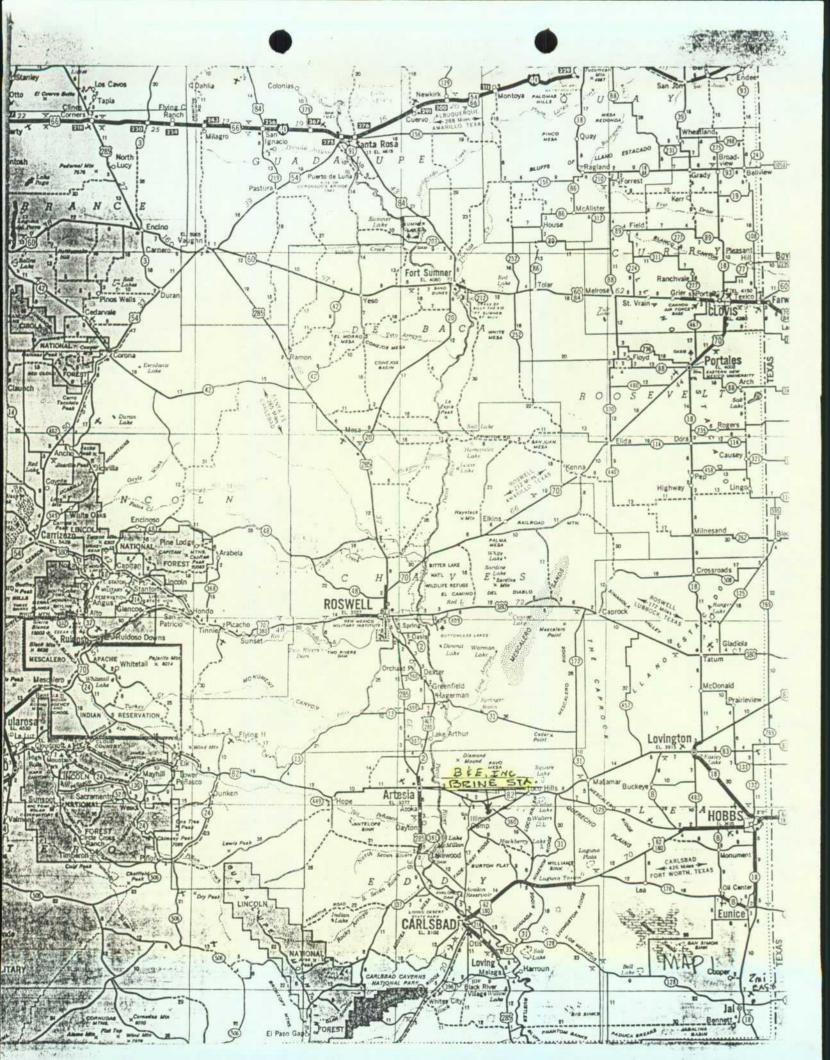
In accordance with your request regarding fresh water zones in the vicinity of your brine station located in the SE4 of Section 24, Township 18 South, Range 28 East, please be advised that there are no water wells within three miles of your location.

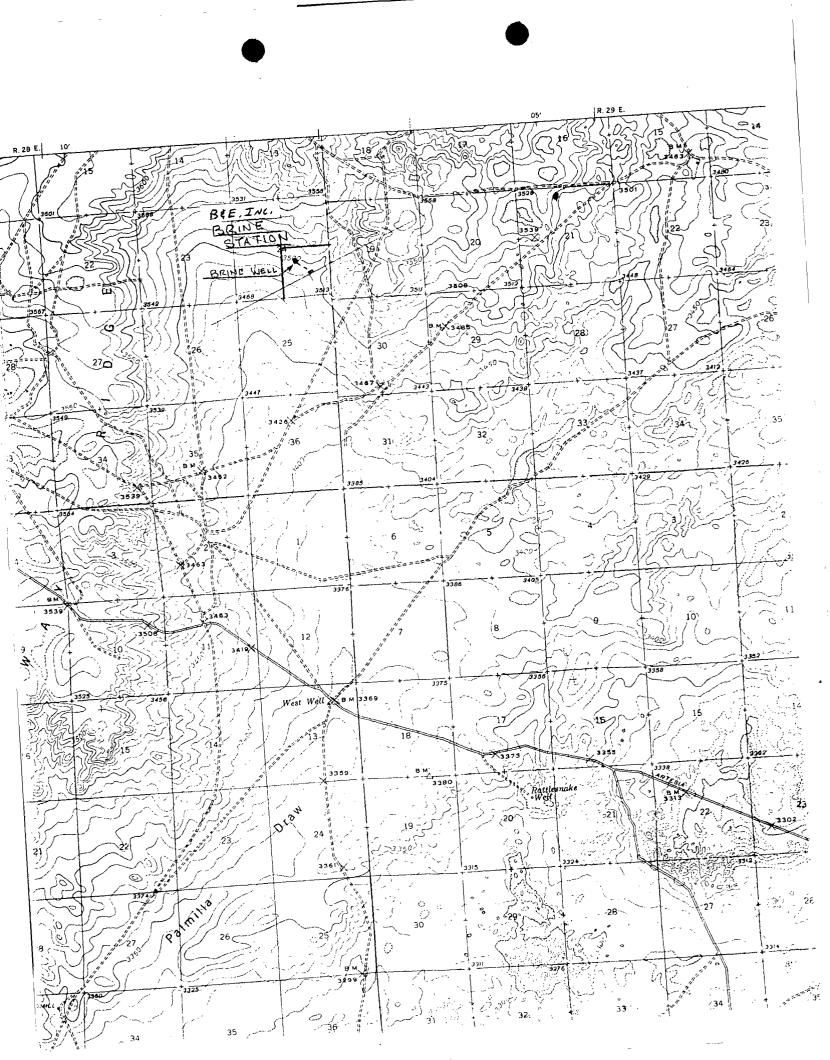
The closest well is located in the NE¼NW¼NE¼ of Section 21, Township 18 South, Range 28 East. This well is completed in the Artesia Group. A water sample collected from this well on April 10, 1969 had a chloride concentration of 134 parts per million.

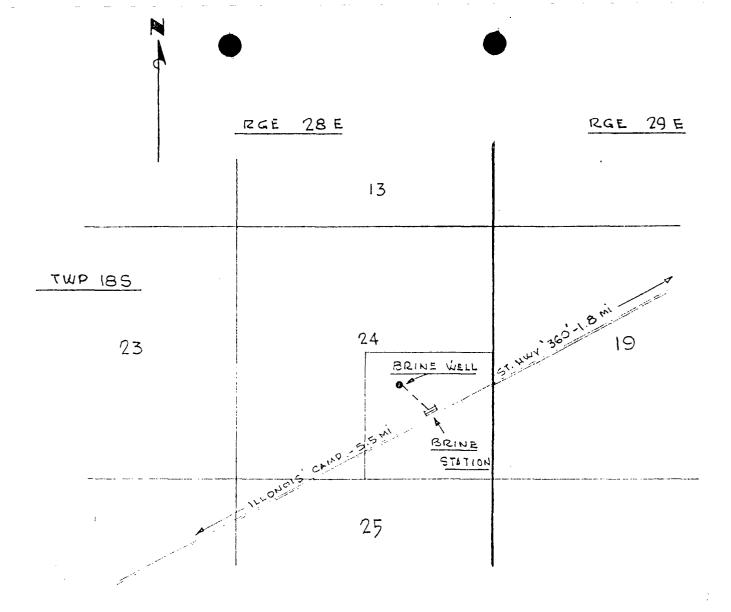
Xours truly,

James I. Wright Field Engineer

JIW/tmg cc Santa Fe







SCALE 1": 2000'

B & E, Inc. Brine Sales Well St. 24 #1 1988' FSL - 1930' FEL S.24 T.18S R.28E Eddy Co., New Mexico

STATE OF NEW ME NERGY AND MINITIALS DEPARTMENT DIST MINUS ON

מינ "R

FEB 0 2 1984 SERVATION DIVISION P. O. DOX 7088

SANTA FE, NEW MEXICO 87501

RECEIVED BYOTH C- 04 SEP 16 1983

All sections of this form must be filled out completely for sile on new and recompleted walls. Fill out only Sections I, II, III, and VI for changes of owwell name or number, or transporter, or other such change of condi-

Separate Forms C-104 must be filed for each pool in multi-consisted wells.

REDUEST FOR ALLOWARLE

O. C. D.

	TAMIFUNTER UIL	_	R ALLOWABLE	AF	RTESIA, OFFICE
1.	PRONATUM OFFICE (heroto)	AUTHORIZATION TO TRANS	PORT OIL AND NATI	JRAL GAS	
	B&E Inc. ^dd**** P.O. Box 2292, H	Hobbs New Mexico 88240	,	·	
	Reason(s) for liling (CArch proper box		Other IPlea	ie esplain)	
	Recompletion Change in Ownership	Change in Transporter of: Oil Dry Go Castrighted Gas Conde	75 !		
	If change of ownership give name and address of previous owner	Permian Brine Sales, Box	1519. Odessa.T	exas .79760)
u.	DESCRIPTION OF WELL AND	LEASE			
	State # 24	hell No. Pool Name, Including F 1 Wildcat	ormation	State, Federa	-7 -
	∤ "	-9 Feet From The S Li	n• and <u>1930.4</u>	Feet From	The
	Line of Section 24 To	aship 185 Range	28E , NMP	ч	Eddy Count
n.	DESIGNATION OF TRANSPOR	TER OF OIL AND NATURAL G		to which appro	ved copy of this form is to be sent)
	Name of Authorized Transporter of Car	singhead Gas or Dry Gas	Address (Give address	to which appro-	ved copy of this form is to be sent;
	If well produces all or liquids, give location of tanks.	Unit Sec. Twp. Rec.	is gas octually connec	ted? Who	en
	If this production is commingled wi COMPLETION DATA	th that from any other lease or pool,	give commingling and	Deepen Deepen	Plug Back Some flesty, Diff, he
	Designate Type of Completion				The state of the s
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	Elevations (DF, RKB, RT, GR, etc.,	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth
	Perforations .				Depth Casing Stoe
		TUBING, CASING, AND			7
	HOLESIZE	CASING & TUBING SIZE	DEPTHS	ET	SACKS CEMENT
	TEST DATA AND REQUEST FO		feer recovery of socal vol ppth or be for full 24 hour		i. and must be equal to or exceed top ai
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	Length of Test	Tubing Pressure	Cosing Pressure		Choke Size
İ	Actual Prod. During Test	Oil-Bhis.	Water - Bbls.		Gas - MCF
•	GAS WELL				
	Actual Prod. Test-MCF/D	Length of Test	Bble. Condensate/MMC	F	Gravity of Condensate
	Teeting Method (pitot, back pt.)	Tubing Presews (Shut-in)	Casing Pressure (Shut	-in)	Chole Size
1.	CERTIFICATE OF COMPLIANC	DE .	II		ION DIVISION
	hereby certify that the rules and r		APPROVED FE	B 0 7 198	4
	Division have been complied with above is true and complete to the	and that the information given	ву	Le We	Hama
			TITLE _OILAND	BAS INSPECT	0.8
	00 700	<u>_</u>			compliance with much time
Š	200 At 1 (51/00)	(we)	ll wall, this form mus	it be accompa.	vable for a newly diffied or deeps nied by a tabulation of the devia- dance with RULK 111.

(Dute)

EXICO OIL CONSERVATION COMMI WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Operator Well No. Lease <u>Permian Brine Sales</u> Service, Inc Unit Letter Section Township County 18 South 28_East Eddy Actual Footage Location of Well: 1987.9 feet from the line and 1930.4 feet from the _South Ground Level Elev. Producing Formation Dedicated Acreage: 3503 Salt Wildcat Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? No If answer is "yes," type of consolidation ___ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Position Re-Entry of Nix & Curtis Gulf State No. Survey Attached I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

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1320 1650

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Date Surveyed

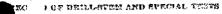
Certificate No.

and/or Land Surveyor

Registered Professional Engineer

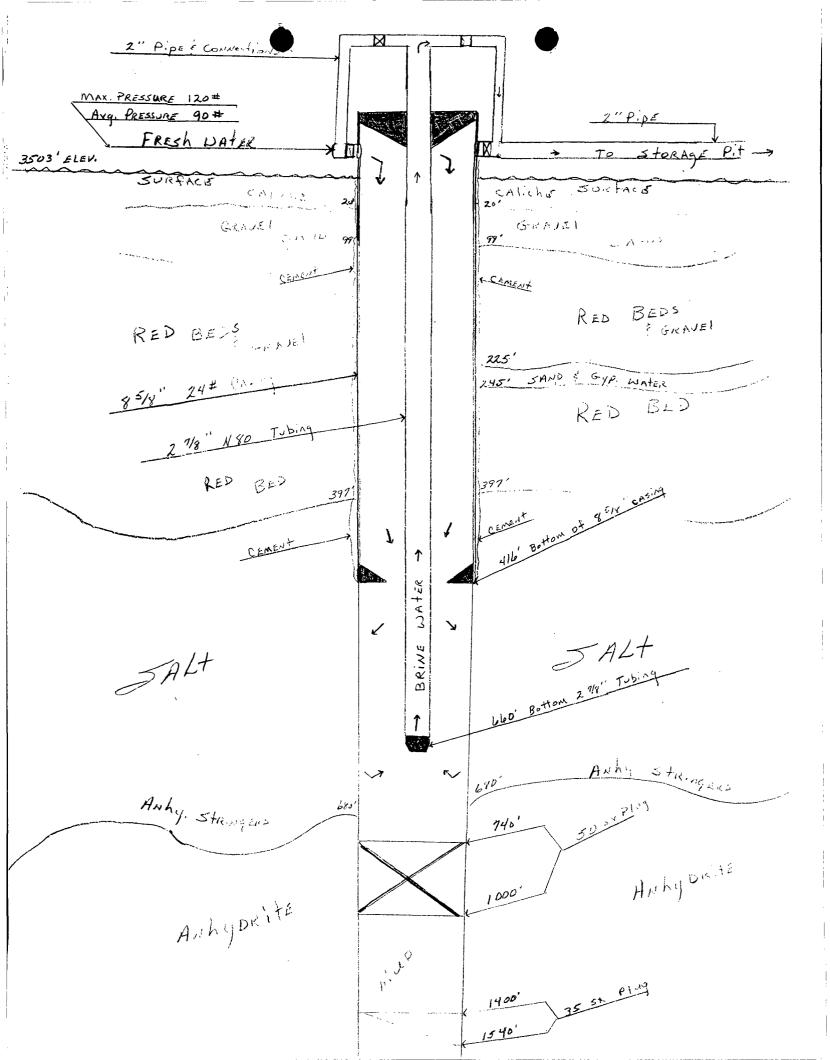
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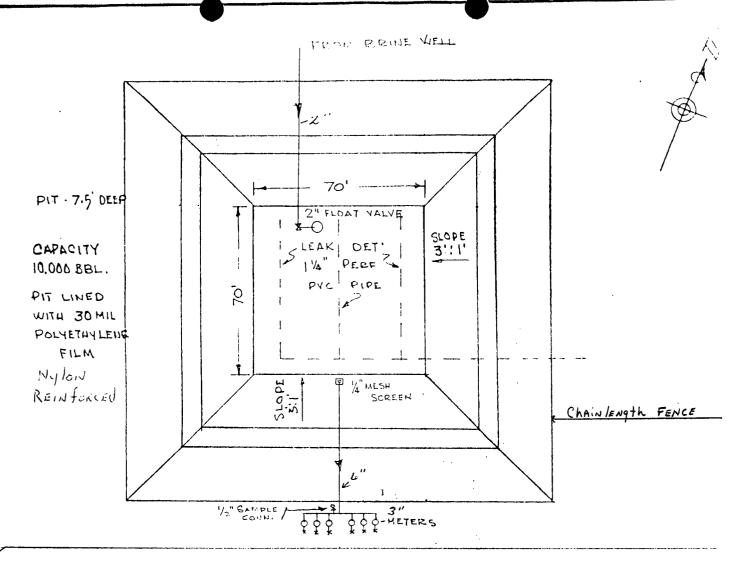
		•
NO. OF COPIES RECEIVED	· · · · · · · · · · · · · · · · · · ·	Form C-103 Supersedes Old
DISTRIBUTION		
SANTAFE	NEW MEXICO OIL CONSERVATION COMMISSION E	Effective 1-1-65
FILE TO SERVICE AND A SERVICE		Su. Indicate Type of Lease
U.S.G.S.	DEC 28 1978	State X Fee
OPERATOR WARREST OF	1070	5. State Oil 6 Gas Lease No.
THE STATE OF THE S	O.C. r	M-19609
CHNDDY A	\$83 × 101 A	
100 NOT USE THIS FORM FOR PROPOSA	NOTICES AND REPORTS ON WELLS TO A DIFFERENT RESERVOIR. FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)	
		7. Unit Agreement Name
WELL GAS WELL	OTHER BRINE WATER WELL	
Name of Operator		8. Farm or Lease Name
PERMIAN BRINE S.	ALES & SERVICE. INC.	STATE "24"
. Address of Operator		9. Well No.
P. O. Box 1591,	Odessa, Texas 79760	1
. Location of Weil		10. Field and Pool, or Wildcat
UNIT LETTER JM . 1987	19 FEET PROM THE SOUTH LINE AND 1930 A FEET	FROM WILDCAT
	,	
THE East LINE, SECTION	24 TOWNSHIP 18 S RANGE 28 E	WARM. (()))))))))))))))))))))))))))))))))))
Chilesta Contractor Contractor		
	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	3503 G.L.	EDDY /////
Check App	propriate Box To Indicate Nature of Notice, Report o	r Other Data
NOTICE OF INTE	ENTION TO: SUBSEQU	JENT REPORT OF:
<u> </u>	·	_
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS CASING TEST AND CEMENT JOB	
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		luding estimated date of starting any pro
	tions (Clearly state all pertinent details, and give pertinent dates, incl	luding estimated date of starting any proj
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17. Describe Proposed of Completed Operations. Cleaned out surf	tions (Clearly state all pertinent details, and give pertinent dates, incl	saned out and bailed
Cleaned out surf	tions (Clearly state all pertinent details, and give pertinent dates, incl Eace plug. No Plug at 420-390. Cle Lit cement plug. Called Bill Gresse	aned out and bailed
7. Describe Proposed or Completed Operations, work) see Rule 1103. Cleaned out surf	tions (Clearly state all pertinent details, and give pertinent dates, incl Eace plug. No Plug at 420-390. Cle Lit cement plug. Called Bill Gresse	saned out and bailed
Cleaned out surf	tions (Clearly state all pertinent details, and give pertinent dutes, incleased plug. No Plug at 420-390. Clearly comment plug. Called Bill Grassey as follows:	saned out and bailed
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ne que conserve — per a	1675	1745	Bkn.Anhr						
. 11	1745 1785	1785 1820	Anlay Dice.colay						
د افر استوادیو امرا بازید ایجا	1820 1835	1835 1865	hriby .	(Throng in	ን ኃይላና ን / T / N				
	1885	1905	Br. $1! \cdots$	i entry	في إلى المسال لوال المسا				
	1905	1930	Anhy & 1.	ne					





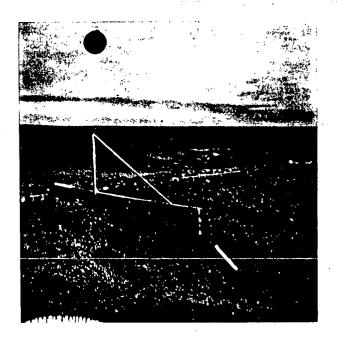
TRUCK LOADING

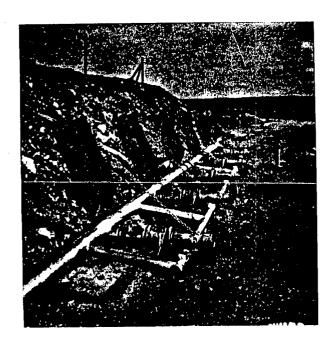
HIGHWAY:

Each customer has their own meter. When a transport arrives the driver will make the necessary connections and unlock the valve, then load with his own truck pump. The Brine Water is pumped from the bottom of the reservoir up and over the dam and through the 3" water meter, which determines the volume purchased.

B & E, Inc.
Brine Sales Well St. 24 #/
1988' FSL - 1930' FEL
S.24 T.18S R.28E
Eddy Co., New Mexico







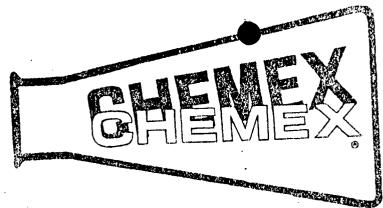


2.0

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION HOBBS, NEW MEXICO

WATER ANALYSIS

Well Ownership:	City of Carlsbad		We	ell No1	
Land Status:	State	Federal	 .	Fee	
Well Location:	Unit Letter Sect	cionT	ownship	Range	<u> </u>
Hu	dson #1 - Eddy County		************	_	
Type Well:				Depth	feet
Well Use:					
Sample Number:	1		Date	Taken: 10-85	·
			Taker	n By: Mickey	Monk
	Specific Conductance:	480		m/ 4.7=	33de mg/l 1
•	Total Dissolved Solids:	•		PPM.	ť
	Chlorides:	42.9		PPM.	
	Sulfates:			PPM.	
	Ortho-phosphates:	v. LOW	_ LO _	MED	HI
	Sulfides:	NONE	_ LO _	MED	HI
	:				
Date Analyzed:	10-22-85	By: Elling	CONCER	VATION DIVISION	ON.
			ie Seay	VALION DIVISIO	JN
REMARKS:3	\times 142 titration = 42.9 $_{1}$	opm C1			
Water to be	used for brine system in	ake water.			
					·············



P. O. Box 423 Artesia, N. M. 88210

WATER ANALYSIS REPORT

			١,		
Company B + E	Brian La	00/1/1	<u></u>	Date 8/	15/85
Field 57.24#1 SEC	=24 T/85 Ri	SE C	ounty	State	
Lease and Well No.		Prod. Format	ion		
Source of Sample Boffor	n of Fit				
Sample of Prod. Water	Inj. Water: Othe			12/	10
Date Collected 3/15/85		_ Anaiyst	[Carmas	1 Sampa	REA-
/ /	WATER ANAL (NUMBER BESIDE ION SYMBO			D'	
Na* 20 15	10 5	0	5 10	15	30C1-
Ca**				+++++	нсо3
Mg**					
				+++++	
Fe ***				<u> </u>	[CO3*
Dissolved Solids Constituent	MG/L (PPM)	į	EPM		
Calcium <u>/080</u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·		oh S	7.5
Magnesium 120 Sodium 102.281		***	10	phSp. Gravity	
iron	واداد مدد منسئات البالد مورن مورد الهداد الباد الماد الماد الماد الماد الماد الماد الماد الماد الماد الماد الم موجد منسئات الماد الماد المورد وموجد المدد الماد الماد الماد الماد الماد الماد الماد الماد الماد الماد الماد ا				
Chloride 15/000 Bicarbonate 180	And the latter of the latter o		4423		
Carbonate					
Sulfate <u>4080</u>		•	85		
Total Hardness 1200	1.76	T-Date of the Control			
Total Dissolved Solids 162 4 Hydrogen Sulfide	760		and the state of t		•
Oxygen		ديد و المحاول	n og gan ett en helde helden gannen og en negen gannen gannen og en negen gannen og en ne		
Remarks:					
					·



TONEY ANAYA

GOVERNOS

STATE OF NEW MEXICO



ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION ARTESIA DISTRICT OFFICE

October 3, 1983

PIO IDRAMENICO ARTESIA, NEW MEXICO 89210 1505) 246-1263

B & E, Incorporated P. O. Box 2292 Hobbs, New Mexico 88240

> Re: Plugging Bond State #24 #1-M-24-18-28Wildent Pool

Gentlemen:

This office acknowledges receipt of your C-104, requesting a change of ownership from Perminu Brine Sales, on the above captioned well.

However, before this change can be approved, we will need a plugging bond'on this well.

As soon as we receive a bond letter from Santa Fe for this well, we will approve this change.

Very truly yours,

Keslie A. Clements

Supervisor, District If

LAC: Ec

SECOND NOTICE - FEBRUARY 1, 1984 - PLEASE REPLY ISSUEDIATELY.

Rec'd Varbill opposed en Siend from. Duine 0/6/84 for



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR February 6, 1984

POST OFFICE BOX 2088 STATÉ LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Safeco Insurance Company 6000 Uptown Blvd., N.E. Suite 100 Albuquerque, New Mexico 87100

Re: \$5,000 One-Well Plugging Bond

B & E, Inc., Principal Safeco Insurance Company,

Surety; 1987.9' FSL and 1930.4' FEL of Sec. 24, T-18-S, R-28-E, Eddy County; Depth: 5,000 ft.

Bond No. 4477509

Gentlemen:

The Oil Conservation Division hereby approves the above-captioned one-well plugging bond effective this date.

Sincerely,

JOE D. RAMEY, Director

dr/

cc: Oil Conservation Division Artesia, New Mexico

> B & E, Inc. P. O. Box 2292 Hobbs, New Mexico 88240

REC'D

FEB 0 8 1984

BONDNO. 4477509

STATE OF NEW MEXICO

ONE-WELL PLUGGING BOND

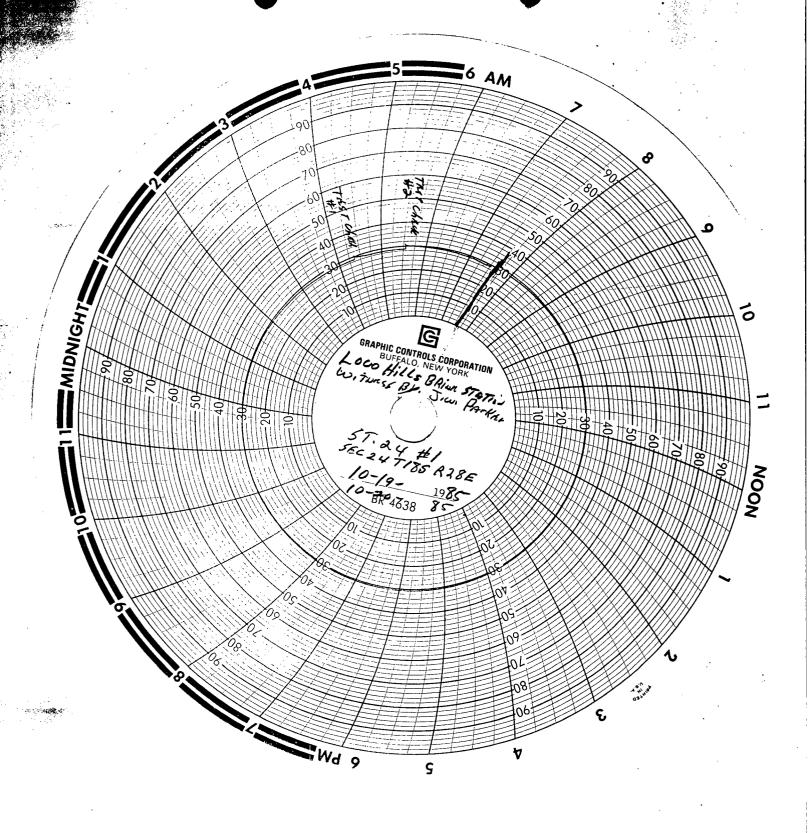
FOR ALL COUNTIES EXCEPT:
CHAVES, EDDY, LEA, McKINLEY, RIO ARRIBA, ROOSEVELT,
SANDOVAL, AND SAN JUAN

		AMOUNT OF BOND \$5,000.00	
		COUNTY Eddy	
OUF	For wells less than 5,000 feet deep, the minumum Sond is \$7,500,002 For wells 5,000 to 10,000 feet deep, the minimum Isond is \$10,000 002 For wells more than 10,000 feet deep, the minimum Bond is \$12,500,00		
	** Under certain conditions, a well bring duller needs a \$7.5 (100 or \$10,000 00 may be permitted to be dulled as in certain or beginning as \$7.50 (100 Km), on the promitted to go to \$7.000 km, and a well being dulled under need to be followed. 1.50 Folia (10):	uch as NAS feet desper than the mount roscomum depth, ra \$100,090,090 feed may be permuted to go to \$10,500.	
	File with Oil Conservation Commission, P. O. Box 2088, Sa	anta Fe 87501	
Now	VALUMEN BY THESE PRESENTS:		
T	That B & E., Incorporated	(An individual) (a parenceship)	
a corren	pration organized in the State of New Mexico	, with its principal office in the city of	
Hob	bbs State of New Mexico	, and authorized to do business	
a the Sc	(ite of New Mexico), as PRINCIPAL, andSafeco_Insurance_Compar	ny	
•	tion organized and existing under the laws of the State of <u>Washington</u>		
dexico,	ithorized to do business in the State of New Mexico, as SURETY, are tor the use and benefit of the Oil Conservation Commission of New 1	Mexico pursuant to Section 65-3-11, New	
dexico S	Statutes Annotated, 1953 Compilation, as amended, in the sum of Five Thous	sand Dollars and no/100	-
	lawful money of the United States, for the payment of which, well and	•	
URETA	Y hereby bind themselves, their successors and assigns, jointly and severally, firmly l	by these presents.	
1	The conditions of this obligation are such that:		
	WHEREAS. The above principal has heretofore or may hereafter enter into oil and gas leases with the State of New Mexico; and	gas leases, or carbon dioxide (CO2) gas leases, or	
ienum į:	Englished white the state of them mexico, and	* · · · · · · · · · · · · · · · · · · ·	
W	WHEREAS, The above principal has heretofore or may hereafter enter into oil and j	eas leases, or earlyon dioxide (COs) eas leases, or	
wlimu j	gas leases on lands patented by the United States of America to private individual		
Mikvidu.	uals; and		
may con magas, sarted	WHEREAS, The above principal, individually, or in association with one numerice the driffing of one well not to exceed a depth of 5,000. The or curbon dioxide (CO2) gas or beliam gas, of diagonal or may acquire by others on land embraced in said State oil and gas leases, or carbon hand patented by the United States of America to private individuals.	feet, to prospect for and produce oil re. own or operate, such well, or such well dioxide (CO ₂) leases, or helium gas leases,	
ndividu	uals, the identification and location of said well being 1987.9 feet from t	the South line and 1930.4 feet	fro
he E	ast line Section 24 Township 18 (North) (South),	Range 28 (East) (Wost), N.M.P.M.	
E	Eddy · County, New Mexico.	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	
plug said	NOW, THEREFORE, If the above hoursen principal and surety or either of them or id well when dry or when abandoned in accordance with the rules, regulations, and or in such way as to confine the oil, gas, and water in the strata in which they are four	rders of the Oil Conservation Commission of New	-
7	THEN, THEREFORE, This obligation shall be null and void; otherwise and in defau	ult of complete compliance with any and all of said	

obligations, the same shall remain in full force and effect.

Sec.	م موال د	-1/. >	پاڻ ٿ	ar i	
1, 35				<i>34</i>	
A SHA			X. ?";	10 L	
7		34.4		201	
Marie .		J.		1	
arily 3					

<u> </u>	
BEING	Saf Instrance Company
PRINCIPAL.	SURETY
16 Box 22-92, Hobbs Non 88240	6000 Uptown Blvd. N.E., Suite 100, Albq.
Address	Address
A Signature Signature	Hy George T. Attorney in Fact
President	Dunagan /
Title	•
ote: Principal, if corporation, affix corporate seal here.)	(Note: Corporate surety affix corporate seal here.)
	•
	•
	·
ACKNOWLEDGEAGENT FOR	M FOR NATURAL PERSONS
	ALL CRIMATORAL LERSONS
ATE OF) DUNTY OF)	SS .
On thisday of	, 19, before me personally appeared
scribed in and who executed the foregoing instrument and acknowle	to me known to be the person (persons) dged that he (they) executed the same as his (their) free act and deed.
	
IN WITNESS WHEREOF, I have hereunto set my hand and so	eal on the day and year in this certificate first above written.
	Notary Public
y Commission expites	
TATE OF New Mexico OUNTY OF Lea	ORM FOR CORPORATION ss.
, ,	'
On this Child Could day of Ju	19 <u>5</u> , before me personally appeared to me personally known who, being by me
: ''' FV	
aly sworn, did say that he is Fresides 1	of
nly sworn, did say that he is Fresiches (of and that the foregoing instrument was signed and sealed on
that of said corporation by authority of its board of directo	of
that he is A F TO C that he is A F TO C that he is board of directors of said corporation.	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and
thalf of said corporation by authority of its board of directors of order said corporation. IN WITNESS WHEREOF, I have hereunto set my hand and so	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and
thalf of said corporation by authority of its board of director of observation. IN WITNESS WHEREOF, I have hereunto set my hand and so Time 19, 1986.	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and
thalf of said corporation by authority of its board of director of observation. IN WITNESS WHEREOF, I have hereunto set my hand and so Time 19, 1986.	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and eal on the day and year in this certificate first above written.
that of said corporation by authority of its board of directors of said corporation. IN WITNESS WHEREOF, I have hereunto set my hand and so Time 19, 1986.	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and eal on the day and year in this certificate first above written.
that of said corporation by authority of its board of directors of said corporation. IN WITNESS WHEREOF, I have hereunto set my hand and so I meet 19, 1986. Type 19, 1986.	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and eal on the day and year in this certificate first above written.
thalf of said corporation by authority of its board of directored of said corporation. IN WITNESS WHEREOF, I have hereunto set my hand and so the said corporation. In Commission expires ACKNOWLEDGEMENT FORM New Mexico	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and eal on the day and year in this certificate first above written. Notary Public
ACKNOWLEDGEMENT FORM	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and eal on the day and year in this certificate first above written. Notary Public
TATE OF New Mexico	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the 'free act and eal on the day and year in this certificate first above written. Notary Public M FOR CORPORATE SURETY
ACKNOWLEDGEMENT FORMOUNTY OF LEddy On this	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the free act and eal on the day and year in this certificate first above written. Notary Public M FOR CORPORATE SURETY 33. day of July , 19_83 , before to me personally known, who,
ACKNOWLEDGEMENT FOR: ACKNOWLEDGEMENT FOR: On this e. appeared George T. Dunagan Engly sworn, did say that he is Actorney In Fact	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the free act and eal on the day and year in this certificate first above written. Notary Public M FOR CORPORATE SURETY 33. day of 1111y , 19_83 , before to me personally known, who, of
ACKNOWLEDGEMENT FOR: ACKNOWLEDGEMENT FOR: Ountry Of Eddy On this	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the free act and eal on the day and year in this certificate first above written. Notary Public M FOR CORPORATE SURETY 33. day of July , 19_83 , before to me personally known, who,
ACKNOWLEDGEMENT FOR: ACKNOWLEDGEMENT FOR: Ountry Of Eddy On this	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the lirce, act and earl on the day and year in this certificate first above written. Notary Public M FOR CORPORATE SURETY 33. day of
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ACKNOWLEDGEMENT FORM ACKNOWLEDGEMENT FORM	and that the foregoing instrument was signed and sealed on ors, and acknowledged said instrument to be the free act and eal on the day and year in this certificate first above written. Notary Public M FOR CORPORATE SURETY 33. day of



11/6/85: Summan of a week of phone conversaltures
regarding B + E: I called Phil Withrow to grompt a response to my 9/18 letter. He pard he'd turned if over to Mickey Monk for response Spoke to Monk (393-6505); he had been religing on Stan Watson, Quality Brone, a "close friend" of Withrow's, to complete the assurance form & sent. Sfan Whton called Steve Sares (in my absence) and Hold him he would send in the AND approx. 10/31. Hy the A of D appeared complife, that would make it possible to get on the Countssion agenda you 11/15 meeting. Hinformed Lon Comad, Section mgr, + Kethy Sioneros, coordinator of items for WOW asenda, that their man be an Assurance to gout an agenda. Hof D. andred 11/4. Only info on water. bearing informations encountered by

brine well was letter from 500 paying there were no water wello for Three miles around facility. I looked up site in NM And. Wing Tech Spound Water Rep't #3 (see attached notes): There appears to be slim chance That albune well may encounter USDA in Rustler. I decided we didn't have enough info to support BOE's contention that confinued operation of the well runder A of D defan emfil next WOCC into to should lessurance, by which the X could regulne driller is log, mangle pressure Jest, whatever would confilmage to ED supporting the assurance.

Mickey Monk called 11/6. I explained into in above paragraph to him. He was in agreement that another month would give everyone more breathing room. He said Stan Makson was working on first part of DP and would send if in soon. I said I would delay sending a lefter rufil X saw the materials he was sending.

Jarze Morgan

Paige - We left the dates blank so you can put in the date. Hanks,

Cynthin Hoover



ASSURANCE OF DISCONTINUANCE

	Africa Commence
WHEREAS, on	_, the_Director-of the New
WHEREAS, on	•
(EID) requested B&E INC (name of brine well owner)	to submit a Discharge Plan
(name of brine well owner) pursuant to §§ 3-104 and 5-101.B.3 of the New Mexi	co Water Quality Control
Commission (Commission) Regulations for discharges	from the brine facility and
brine well STATE 24 - 1 located (name of facility) 18 North/South, Range 28 East/West, N.M.P.	in Section <u>24</u> , Township M., EDDY
County, New Mexico; and	
WHEREAS, neither the regulations nor an e	xtension to discharge
without an approved Discharge Plan issued by the D	irector, nor any Court
Order, allows B & E INC. to op (owner) associated surface facilities beyond (date)	erate an injection well and, and
WHEREAS, the following information indica	
contaminaiton of drinking water sources: _SEE ATTA	CHED EXHIBIT A
	; and
WHEREAS, B & E INC	has committed to the
(owner) Commission to proceed with all diligence to prepar	re and secure an approved
Discharge Plan; and	
WHEREAS, the Commission and B & E INC (owner	deem it
appropriate to enter into this Assurance of Discor	•
B & E INC assures the company of the	e Commission as follows:

1. ASSURANCE: A discharge plan s	hall be prepared for the
STATE 24 - 1 Brine Facility according t	o the schedule in Paragraph 2.
This Assurance shall expire concurrently wi	th the approval or disapproval of
the discharge plan.	
2. SCHEDULE OF COMPLIANCE: It is	agreed that preparation of the
Discharge Plan shall comply with the follow	ring schedule:
A. B & E INC (owner) shall submit plans and specifications	
of the in situ extraction well to the	
EID	on or before
B. B & E INC (owner) shall submit a proposal outlining measures	
to be taken to correct any possible violati	on
of the Water Ouality Control Commission	
Regulations resulting from surface	, -
activities	on or before
C. EID shall complete review	
of materials submitted under Paragraph	
2.A and B and shall provide comments to	
B & E INC (owner) D. B & E INC (owner)	on or before
(owner) shall submit the information listed in	
\S 5-102.B.1d and the information listed	
in §5-203.A of the Water Quality Control	
Commission Regulations to the FID	on or before

E. EID shall complete review
of materials submitted under Paragraph
2.D herein and EID shall provide
comments to B & E INC on or before (owner) F. B & E INC (owner) shall submit a complete Discharge Plan
which shall address all applicable
requirements of the Water Quality Control
Commission Regulations, Parts 3 and 5 on or before
G. EID shall complete review
of Discharge Plan Application and EID
shall provide comments to(owner)
B & E INC on or before
H. B & E INC (owner) shall submit responses to the EID
comments on or before
I. EID Director's approval
or disapproval of Discharge Plan
Application shall be promulgated on or before
If a public hearing is scheduled by the EID Director pursuant to
§ 3-108 of the Commission's Regulations, all deadlines in Paragraphs 2.G
through 2.I shall be 45 days later.
3. MUTUAL COOPERATION: B&FINC and the EID (owner)
shall mutually cooperate in accomplishing on a timely basis the matters
contemplated by this Assurance. In this respect, direct communication among
STATE 24 - 1 representatives and EID personnel is encouraged. (brine facility)

4. <u>EXTENSIONS FOR GOOD CAUSE</u> : It is expressly agreed and understood
by the parties hereto that events not reasonably foreseeable on the date of
execution of this Assurance may occur which will make it impossible or
extremely difficult for B & E INC to comply in a timely (owner)
fashion with those compliance dates set out in numbered paragraph 2. In the
event such unforeseen events do occur, B & E INC may apply (owner)
to the Commission for an extension for an additional reasonable period of time
to comply with such tasks in numbered paragraph 2. The additional reasonable
period of time, if granted, shall in all cases be governed by the relevant
circumstances.
5. <u>ENFORCEMENT</u> : The Commission shall not undertake enforcement
against STATE 24 - 1 for the continuation of current (brine facility)
discharges occurring during the pendency of this Assurance without first giving
B & E INC 15 days prior written notice by the Director (owner) that is in violation of the terms of this
B & E INC 15 days prior written notice by the Director (owner) that is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under § 74-6-11 N.M.S.A. 1978.
B & E INC 15 days prior written notice by the Director (owner) that is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under § 74-6-11 N.M.S.A. 1978.
B & E INC 15 days prior written notice by the Director (owner) that is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under § 74-6-11 N.M.S.A. 1978. Failure by B & E INC to comply with any condition (owner)
B & E INC 15 days prior written notice by the Director (owner) that is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under § 74-6-11 N.M.S.A. 1978. Failure by B & E INC to comply with any condition (owner)
B & E INC (owner) that is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under § 74-6-11 N.M.S.A. 1978. Failure by B & E INC to comply with any condition (owner) of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under §§74-6-5 and 10 N.M.S.A. 1978, as applicable.
B & E INC (owner) that is in violation of the terms of this Assurance. This Paragraph shall not preclude appropriate action by the Director or the Commission under § 74-6-11 N.M.S.A. 1978. Failure by B & E INC to comply with any condition (owner) of this Assurance of Discontinuance shall be actionable as a violation of the Water Quality Act and of this Assurance under §§74-6-5 and 10 N.M.S.A. 1978, as applicable.
15 days prior written notice by the Director (owner) that
15 days prior written notice by the Director (owner) is in violation of the terms of this

6. NO ADMISSION: The terms, execution and any conduct in accordance
herewith shall not constitute an admission of any kind by B & E INC (owner)
relating to matters under the Water Quality Act, Commission
Regulations, or any other matters relating to health or environment.
Signed and acknowledged this $30th$ day of $0CTOBER$, 1985 .
BAFILIA (owner)
STATE OF NEW MEXICO)
: SS
COUNTY OF SANTA-FE)
The foregoing instrument was acknowledged before me this 30 day
of OCTOBER, 1985, by Phil Withrow d/b/a B & E INC.
My Commission Expires:
My Commission Expires: 7-2-88 hosemary Jetton
Notary Public

		APPROVED:
•		WATER QUALITY CONTROL COMMISSION
		Ву
		Denise Fort, Chairman
		Water Quality Control Commission
STATE OF NEW MEXICO)	
	: SS	
COUNTY OF SANTA FE)	
The foregoi	ing instrument was ackn	owledged before me this day
of	, 19, by Denise Fort	, Chairman of the Water Quality
Control Commission,	on behalf of the Water	Quality Control Commission.
My Commission Expire	2 S:	
		Notary Public



STATE OF NEW MEXICO

STATE ENGINEER OFFICE ROSWELL

S.E. REYNOLDS STATE ENGINEER October 16, 1985

DISTRICT 2
909 EAST 2ND ST.
P.O. BOX 1717
ROSWELL, NEW MEXICO 88201

B and E Inc. Box 2292 Hobbs, New Mexico 88240

Gentlemen:

In accordance with your request regarding fresh water zones in the vicinity of your brine station located in the SE4 of Section 24, Township 18 South, Range 28 East, please be advised that there are no water wells within three miles of your location.

The closest well is located in the NE¼NW¼NE¼ of Section 21, Township 18 South, Range 28 East. This well is completed in the Artesia Group. A water sample collected from this well on April 10, 1969 had a chloride concentration of 134 parts per million.

Xours truly,

James I. Wright

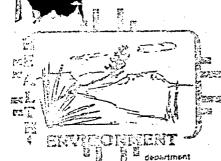
Field Engineer

JIW/tmg cc Santa Fe

site vitualed where Lustler puberaps, overlare by "Mercalero Dando". Dockum outeross x 1.5 mi to north, mare pofentlat for water in Vockeum. Omly non-bordne wafer in Kustler avsald be in 35'unit of dolomitte Cs. occurring at top of lower part of Rusten as destrued by Cong. Her ille under confined conditions Well lited in 18.24.24.300 TAS 1730, CP. 110 in 1950. This well located in Rustler area delineated en mays - but concervables taps alleworm?

another well Ersted in 18.28.8.830 - en Rustler zone of mag., said No encounter holled Chalk Bluff & to a Rustlan .= redleds, 30 p & P-S This info from: Hendrickson, G.E. + R.S. Vanea, 18 Showed. 1952 Heology Found. abter Resources of Eddy Country, Na Man. New Rep 43, State Bur Mines. Mrn Res., NM Anox. Min's Tech, Canpus Statton, Socono MM

CENTRE D. FORT CHECTOR



ENVIRONMENTAL IMPROVEMENT DIVISION

P.U. Box 968, Santa Fe. New Mexico 87504-0368 (505) 984-0920

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 18, 1985

Phil and Julie Withrow B&E PO Box 2292 Hobbs, NM 88240

Dear Mr. and Ms. Withrow:

On August 21, 1985, while on field work in the area, a fellow EID staff member and I drove past a brine well on County Road 217 in Eddy County which was previously unknown to us. Since the EID has regulatory authority for brine extraction wells, we stopped and took a quick look at the surface facilities, and I subsequently called the number on a sign that advertized brine at that location.

During that phone conversation on September 13, 1985, I spoke with Jerry Hanaway, who told me that the well was owned and operated by B&E and provided me with your names as the people responsible for any regulatory arrangements. I recognized Mr. Withrow's name as having some connection with the Quality Brine Station in Tatum, which has been in the process of obtaining discharge plan approval (equivalent to a permit) for nearly two years; so I suspect that the following information will not be entirely new to him.

1) Any operation that results in the discharge of "water contaminants" (defined in the enclosed Water Quality Control Commission (WOCC) regulations as "any substance which alters the physical, chemical or biological qualities of water" -Section 1-101.BBB) - is required to notify the EID (or in certain cases, OCD) prior to discharging. On the basis of the information provided, the technical staff of the appropriate regulatory agency will determine whether a discharge plan is needed. In the case of a brine in situ extraction well, however, the decision whether or not to require a discharge plan is not left to the discretion of technical staff: the WOCC regulations require that all in situ extraction wells have an approved discharge plan prior to start-up of operations (Section 5-101.B).

The purpose of a discharge plan is to provide the EID technical staff with sufficient information about your operation to demonstrate that your activities will not == degrade the quality of ground water that contains less than 19,000 mg/l of Total Dissolved Solids (TDS). Since the high-density brine produced and stored above ground has the potential to raise the chloride and TDS content of ground water in the area, the discharge plan must cover surface facilities also. Please note the

enclosed "Suggested Outline for Discharge Plan Submittal", which condenses the discharge plan requirements for an in situ extraction well facility, and sets up a logical sequence in which to present the information required in a discharge plan. Using this format is optional. The final reference for what must be contained in your discharge plan is the WOCC regulations. The codes in bold type in the outline refer to Sections of the WOCC regulations, for your convenience.

If you can demonstrate to the satisfaction of EID technical staff that there is no ground water containing less than 10,000 mg/I TDS in the vicinity of your operation, you may be allowed to submit a discharge plan under Part 3 of the regulations, containing less information than what is required under Part 5. The "Part A Application" (enclosed) lists the basic information which would be required if you go this route.

2) Technically, the WOCC regulations stipulate that no facility which involves a discharge of water contaminants may begin operation without approval from the Director of the agency which has regulatory authority over that particular type of facility. However, the Water Quality Act under which the WOCC regulations were developed includes, at the discretion of the Commission, a means for allowing an existing facility to remain in operation while preparing a discharge plan.

The mechanism for setting up such an arrangement is called an "Assurance of Discontinuance". A basic form for an Assurance is enclosed. It will be necessary for you to petition the Water Quality Control Commission to be allowed to continue operating while preparing and seeking approval for a discharge plan. The Commission meets on the second Tuesday of each month, and material to be considered by them must be submitted two weeks in advance of that date. I see no reason why you should not be able to prepare an Assurance for submittal to the Commission at their November meeting.

The EID hopes to obtain your voluntary compliance with the ground water quality protection regulations of the State of New Mexico.

Sincerely,

Paige Grant Morgan

Water Resource Specialist

PGM:pgm

cc: John Guinn, EID District IV Manager. Jerry Hanaway, B&E

encls: WOCC regs
extraction well outline
Part A application
A of D

Paige, Call

14:10

Cynthia Hoover BNE Inc. Hobbs

393-0762

Called the number we saw on the 9/13/85: sign to the bine station impected on 8/21/85: 885-6663. Spoke With Denny Hanaway. Told him they needed a spermit to operate, although on The basis of our surface inspection They were apparently in good shape and may be able to confinue operating while preparing a permit application. He referred me to their head office in Hobbs. Phils Julie Withow PÓ Box 2292 Hobbs, NM 88240 393-0762; 393-3495 The address of Jenny Haranday is: Po Box 756 Carlobad, NM 88220 I said & would capy Hanaway with anything & sent to the Withrows. Called Withnow; left message Jary Morgan

* Hanaway Volunteered the information That there is a Rowland Drucking Arine Statton on the El Jaso Hody across from the airport in Calobad. X Upaid I would look into it.

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amples, Ion	
Na	FIELD TRIP REPORT
K	GROUND WATER SECTION
Ca	C 11.1
Mg	SLD USER CODES County Eddy
C1	Ground Water: 59300
HCO3	NO ₃ , HC, & Toxics: 59600 -
C03	UIC; 59500
S04	Name of Facility: BEE Brine?
TDS	Name of Facility: BEE Brune
	Location: On County Rd 217 approx (mi pouth of intersection wit County Rd 129(?)
NO3+ NO2	wit County Rd 129(?) ()
NH3	Discharge Plan Number: DP- zenknawa
kjeld N	Type of Operation: being extraction well a phorage point
///////////////////////////////////////	
As	ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT
Ba	EID Inspector(s): Parge Morgan & Steve Somes
Cd	Date of Inspection or Visit: 8/21/85
CN	Discharger's Representative Present During EID Visit: NONE
Cr	Name:
F	Title or Position:
Pb	Purpose of Vișit:
Hg Hg	a. Evaluation of Proposed Discharge Plan
Se	b. Compliance Inspection of Discharge with Approved Plan
Ag	c. Other (specify) We were previously unaware of the existence
<u> </u>	Inspection Activities During Field Visit: of this facility felt we
V	a. Inspection of Facilities or Construction (specify) should look .
Ra 226	Looked at wellhead & Storage good Well was over. pumpting, storage pond typalon-litued & genced.
Ra 228	pumptus storage pond Hypalon- Utued & genced
	Somilia of Fifther the State of Problems of
Cu	b. Sampling of Effluents (give sampling locations)
Fe Va	••***
Mn Phonolo	
Phenols Zn	c. Sampling of Ground Water (give names or locations of wells)
1//////////////////////////////////////	c. combined of ground water (Sive names of focations of Mails)
Al	
B	
Co	d. Evaluation of geology, soils, water levels or other physical
Mo	characteristics of the location (specify)
Ni Ni	characteristics of the focation (Specify)
11111/1111111	
pH	
Conduct.	e. Other (specify)
-:-	Observations and Information Obtained during the Visit:
- :	. · ·
	Jign by well paid: Drafe 24 7/0.1
	Sign by well paid: State 24 No. 1 Sec. 24 TI85 R28E Sign on road paid: BRINE
	Dign on road paid: BRINE

ACTION REQUIRED

Check to see whether they have an OCD greening. Af not, begin procedures to regular a DP.

885-6663



8/27/91
BIE Loco Hills Brine Facility
Main loading area

LMB



8/27/9, B&E Loco Hills Brine Facility Main loading area

KME



8/27/91

BEE LOCO Hills Brine Faculity

Single (assirance) loading value. Needs spill containment below.



8/27/91

BEE Locottills Brine Facility

Single-lined brine storage pond
reciping brine.

RmB



12/6/88
Bt Zoco Hills - Brine Station
Loading Area looking West



12/6/88
B& E Loco Hills - Brine Station Wellhead



12/6/88 B&E Loco Hello - Brine Station Spill Collection System



12/6/88 B+ £ Loco Hills - Bune Station

Storage Lagoon looking East



B&E Loco Hills-Brine Station Storage Lagoon looking South

NM OIL CONSERVATION DEPT

WELL LOG # State "24" #1

REMOVED FROM FILE

BW005 BOX

NUMBER 30

RETURNED TO CUSTOMER



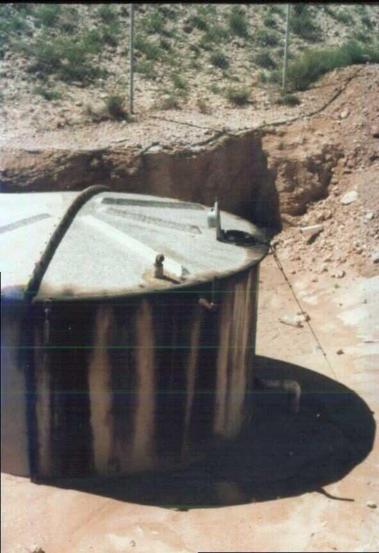
JEM - LOCO HELLS (Bo) 9-16-96



TIMS- LOGO NEUS (BU)
9-16-96



JDNS - LOCO NELLS (Bb)
9-16-86



Action 2007 - COCO 9-11-91



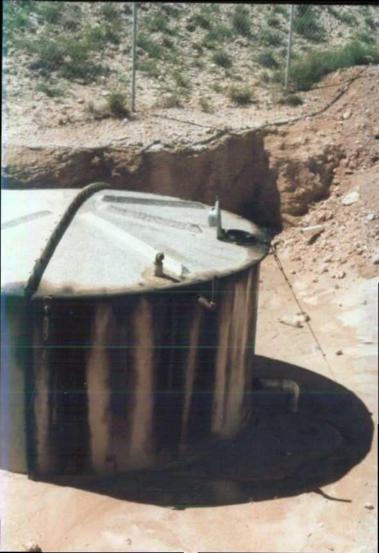
9-16-96 HECK (BW)



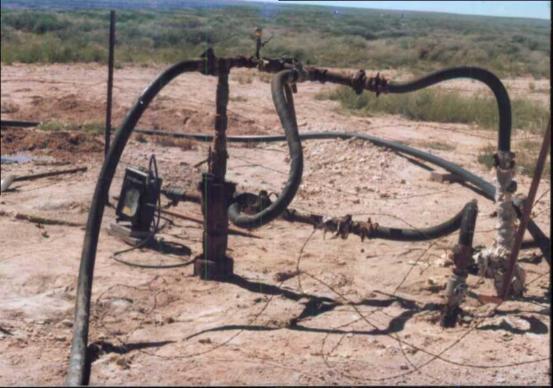
9-16-96 HELLS (BW)



711-96 100 HELLS (RW)



JEMS - LOCO WILLS (1844) P-16-96



TIMS- 6000 Noces (BW) 13
4-16-91