## STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

4-2-91

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

Ju-1 420

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed: MC

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NSL		 
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SWD	X	 
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PMX <sup>-</sup>		 

Gentlemen:

I have examined the application for the:

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and my recommendations are as follows:

15

Yours very truly,

Jerry Sexton Supervisor, District 1

/ed

### APPLICATION FOR AUTHORIZATION TO INJECT

Ι.	Purpose: S Application	acondary Recovery - Pressure Maintenance - X Disposal - Storage qualifies for administrative approval? - X yes - no	
11.	Operator:	Tahoe Energy, Inc.	
	Address:	3909 West Industrial Avenue, Midland, Texas 79703	
	Contact party:	Kenneth A. Freeman Phone: 915-697-7938	
111.		plete the data required on the reverse side of this form for each well posed for injection. Additional sheets may be attached if necessary.	
IV.	Is this an expand If yes, give the	nsion of an existing project?  yes X no e Division order number authorizing the project	_,

- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
  - VII. Attach data on the proposed operation, including:
    - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
    - 2. Whether the system is open or closed;
    - 3. Proposed average and maximum injection pressure;
    - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
    - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
  - IX. Describe the proposed stimulation program, if any.
- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- ★ XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if avai able and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
  - XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

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

Name: Kenneth A. Freeman Title President 3-11-91 Signature: a. Date: thein

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Data enclosed with application shows wells drilled

within one mile radius but they did not reach the Cisco. DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

#### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. D. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

### TAHOE ENERGY RED DOG #1

LOCATION : 1650' FSL & 1980' FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico

### PROPOSED INJECTION WELL:

CASING : - 13-3/8" 48# @ 359.75', cemented with 380 sacks Class "C" + 2% c.c. - circulated to surface. - 8-5/8" 24# & 32# @ 4200', cemented with 1700 sacks Class "C" - circulated 338 sacks to surface. - 5-1/2" 17# & 20# @ 10,077', cemented with 648

- sacks Class "H" + 10% salt. Top of cement 6620'.
- SQUREZE/ : Squeeze existing Bough "B" & "C" perforations (10 holes) with 125 sacks. Drill out and pressure test squeeze job. Then drill 4-3/4" hole from 10,077 to 10,165 and complete open hole 10,077 to 10,165 or less.
- TUBING : 2-7/8" L-80 plastic coated.
- PACKKR : Baker Lockset Packer @ 10,040'.
- **INJECTION** : Cisco 10,120<sup>-</sup> 10,165<sup>-</sup>

ZONE

LITHOLOGY : Limestone

#### VII PROPOSED INJECTION OPERATION

- 1. Average injection volume 400-500 barrels per day. Maximum injection volume 1500 barrels per day.
- 2. System is closed.
- 3. Average injection pressure is vacuum. Maximum injection pressure is 800 pounds per square inch.
- 4. Source of injection fluid produced water Saunders Permo- Upper Penn.

## VIII INJECTION ZONE

- 1. Cisco 10,120<sup>-</sup> 10, 165<sup>-</sup>
  - The Cisco in this area consists of limestone with medium to dark gray and red shale with some minor light gray, generally fine grained sandstone.

The only fresh water zone recorded in this area is in the interval from 0 - 350°. This is the Ogallala Aquifier of the South Plains. There are no water wells within one mile of the proposed disposal well.

## IX STIMULATION PROGRAM

None is expected, but if the Cisco is stimulated it would be with 1,000 gallons of 15% HCL acid.

### X LOGS

Logs are on file with the N.M.O.C.C. in Hobbs, New Mexico from  $0 - 10,100^{\circ}$ . The well will be deepened to approximately 10,165° and completed for disposal open hole from 10,077° to total depth (est. @ 10,165°).

## XI

### FRESH WATER ANALYSIS

There are no fresh water wells within one mile of the proposed disposal well.

### XII <u>STATEMENT</u>

I have examined the well records and all available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the proposed injection zone and any underground source of fresh water.

KENNETH A. FREEMAN

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Skell #1-A Childress ( P & A ) 1980' FSL & 660 FWL Section 1, T-14-S, R-33-E Lea County, New Mexico Type Well: Oil 11-3/4" set @ 374' cemented with 400 sacks Casing 8-5/8" set @ 4197' cemented with 400 sacks Program: 5-1/8" set @ 10,030' cemented with 600 sacks Date Date Spudded: 5-6-67 Completed: 7-5-67 TD: 10,030' Production: IPF 440 BOPD, 23 BWPD & 665 MCFPD Perfs: 9852-9885' McGrath & Smith #1 Huber-State Producing - Justice Oil Company 1980'FNL & 1650' FEL Section 2, T-14-S, R-33-E Lea County, New Mexico Type Well: Oil Casing Program: 13-3/8" set @ 391' cemented with 375 sacks 8-5/8" set @ 4217' cemented with 400 sacks 5-1/2" set @ 10,226' cemented with 600 sacks Date Date Spudded: 5-22-68 Completed: 7-16-68 TD: 10,243' Production: IPF 312 BOPD & 459 MCFPD - no water Perfs: 9846-9856

Data enclosed with application shows wells drilled within one mile radius, but they did not reach the Cisco.



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INJECTION WELL DATA SHEET -- SIDE 2

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## THE WESTERN COMPANY

## WATER ANALYSIS

OPERATOR: TAHOE ENERGY INCDATE SAMPLED:WELL: TAHOE "WA" STATE #1DATE RECEIVED: 03/06/91FIELD:SUBMITTED BY:FORMATION: SAUNDERS PERMO UPPER PENNWORKED BY: JIM GORDONCOUNTY: LEA, COSAMPLE DESCRP:STATE: NMDEPTH: 170'

SPECIFIC	GRAVITY:	1.000	Q:	70	F
	pH:	6.8			
	IRON:	FAINT	TR	ACE	
HYDROGEN	SULFIDE:	NO TRA	ACE		
	CALCIUM:	120			ppm
M	AGNESIUM:	44			ppm
SODIUM & PO	DTASSIUM:	86			ppm

1

RESISTIVITY:		
SULFATE:	240	ppm
BICARBONATE:	232	ppm
CHLORIDE:	160	ppm

with analys from atte well located on the location of the Takie "WA". State #1 (1950 Fill & 600/FSL of Section 11-14-33)

#### **AFFIDAVIT OF PUBLICATION**

State of New Mexico, County of Lea.

#### I. Kathi Bearden

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

of\_

One \_weeks. Beginning with the issue dated

February 15,19 91 and ending with the issue dated

<u>February 15,19 91</u> Unde

General Manager. Sworn and subscribed to before

me this day of au 1

Notary Public.

My Commission expires\_

, <u>19</u>91 July 24 (Seal)

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

LEGAL NOTICE February 15, 1991 Red Dog #1 1.) Name: Tahoe Energy inc. Address: 3909 W. Industrial, Midland, TX.

79703 Tele. No: (915) 694-4173

Tele. No: (915) 694-4173 Kenneth A. Freeman 2.) Purpose: Disposal of produced water from the Tahoe "WA" State #1-2-3 wells located in section 11, T-14-S, R-33-E,

6

N.M.P.M., Lea County, New Mexico Location of proposed injection well: 1650' FSL & 1980' FEL, Section 2

- Inection Zone: Cisco @ 10,120'-10,165'.
   Injection Pressure Expected: vacuum (0)
  - to 800 lbs. Injection volume: average 400-500 BWPD, maxium 1500
- BWPD 4.) Notation: Any interested party or parties must file objections or request for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, N.M. 87501 within 15 days of this publication.



PHONE (915) 697-4173 . 3909 W. INDUSTRIAL AVE. . MIDLAND, TEXAS 79703

March 12, 1991

Mr. Ray Hilburn: P. O. Box 303 Caprock, New Mexico 88213

Dear Mr. Hilburn:

Tahoe Energy, Inc. is hereby notifying you of it's application to deepen and convert it's Red Dog #1 (1650' FSL & 1980' FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico to a disposal well in the Cisco formation.

Enclosed is a copy of Tahoe's application. If you have any questions or comments, please feel free to contact me at the number shown above.

Sincerely,

heem an

Kenneth A. Freeman President - Petroleum Engineer

KAF/jt Enclosures

### P 087 126 471

RECEIPT FOR CERTIFIED MAIL NU INSURANCE COVERALE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse)

<ul> <li>SENDER: Complete items 1 and 2 when addit 3 and 4.</li> <li>Put your address in the "RETURN TO" Space on the card from being returned to you. The return receipt fee to and the date of delivery. For additional service(s) re 1. Di Show to whom delivered, date, and addressed (Extra charge)</li> </ul>	reverse side. Failure to do this will prevent this will provide you the name of the person delivered owing services are svailable. Consult continuated owing services are svailable.
3. Article Addressed to: Mr. Ray Hilburn P. O. Box 303 Caprock, New Mexico 88213	4. Article Number         P       087       126       471         Type of Service:         Registered       Insured         VC certified       COD         Express Mail       Return Receipt for Merchandise         Always obtain signature of addressee         or agent and DATE DELIVERED.
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PS Form 3800, June 1985





PHONE (915) 697-4173 . 3909 W. INDUSTRIAL AVE. . MIDLAND, TEXAS 79703

March 12, 1991

J. M. Huber 2000 West Loop South Houston, Texas 77027

Gentlemen:

Tahoe Energy, Inc. is hereby notifying you of it's application to deepen and convert it's Red Dog #1 (1650' FSL & 1980' FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico to a disposal well in the Cisco formation.

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Sincerely,

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Kenneth A. Freeman President - Petroleum Engineer

KAF/jt Enclosures

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PHONE (915) 697-4173 • 3909 W. INDUSTRIAL AVE. • MIDLAND, TEXAS 79703

March 12, 1991

Woods Petroleum Corporation One Lakeview Energy Center 3817 N.W. Expressway, Suite 700 Oklahoma City, Oklahoma 73112

Gentlemen:

Tahoe Energy, is hereby notifying you of Inc. it's application to deepen and convert it's Red Dog #1 (1650' FSL & 1980' FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico to a disposal well in the Cisco formation.

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Kenneth A. Freeman President - Petroleum Engineer

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ut your address in the "RETURN TO" Space on the r and from being returned to you. The return receipt fee w 2 and the date of delivery. For additional service(s) req x fees and check box(es) for additional service(s) req (Extra charge)	till provide you the name of the person deliver wing services are available. Consult postmast uested.
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March 12, 1991

Justice Oil Company C/O Oil Reports & Gas Services, Inc. P. O. Box 755 Hobbs, New Mexico 88241

Gentlemen:

Tahoe Energy, Inc. is hereby notifying you of it's application to deepen and convert it's Red Dog #1 (1650' FSL & 1980' FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico to a disposal well in the Cisco formation.

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Sincerely,

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Kenneth A. Freeman President - Petroleum Engineer

KAF/jt Enclosures

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P 087 126 474

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PHONE (915) 697-4173 . 3909 W. INDUSTRIAL AVE. . MIDLAND, TEXAS 79703

March 12, 1991

Amerada Hess Corporation 1200 Milam Street Entex Building Houston, Texas 77002

Gentlemen:

Tahoe Energy, Inc. is hereby notifying you of it's application to deepen and convert it's Red Dog #1 (1650° FSL & 1980° FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico to a disposal well in the Cisco formation.

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Sincerely,

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Kenneth A. Freeman President - Petroleum Engineer

KAF/jt Enclosures

and the date of delivery, for additional receip of fees and check box(ss) for additional service Show to whom delivered, date, and addre	additional services are desired, and complete iter the reverse side. Failure to do this will prevent th tee will provide you the name of the person delivers following services are available. Consult postmast is requested. sees a address. 2. Rescue
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P 087 126 475

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Form 3800, June 1985

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## TAHOE ENERGY, IAC.



PHONE (915) 697-4173 • 3909 W. INDUSTRIAL AVE. • MIDLAND, TEXAS 79703

March 12, 1991

Mobil Producing Texas & New Mexico, Inc. P. O. Box 633 Midland, Texas 79702 Gentlemen:

Tahoe Energy, Inc. is hereby notifying you of it's application to deepen and convert it's Red Dog #1 (1650° FSL & 1980° FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico to a disposal well in the Cisco formation.

Enclosed is a copy of Tahoe's application. If you have any questions or comments, please feel free to contact me at the number shown above.

Sincerely,

Kenneth A. Freeman President - Petroleum Engineer

KAF/jt Enclosures

SENDER: Complete items 1 and 2 when addit ut your address in the "RETURN TO" Space on the and from being returned to you. The return receipt fee and the date of delivery. For additional service(s) in Jess and check box(es) for additional service(s) in Show to whom delivered, date and advectors.	will provide you the name of the person delivered
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P 087 126 476

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Form 3800, June 1985

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PHONE (915) 697-4173 . 3909 W. INDUSTRIAL AVE. . MIDLAND, TEXAS 79703

March 12, 1991

Texaco, Inc. P. O. Box 3109 Midland, Texas 79702

Gentlemen:

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and the date of delivery. For additional fees the following and check besters for additional fees the following for a distribution of the following for a distribution of the fees the	tional services are desired, and complete item a reverse side. Failure to do this will prevent th will provide you the name of the person delivere owing services are available. Consult postmaste equested.
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## TAHOE ENERGY INC.



PHONE (915) 697-4173 . 3909 W. INDUSTRIAL AVE. . MIDLAND, TEXAS 79703

March 12, 1991

Yates Petroleum Corporation 105 S. Fourth Street Artesia, New Mexico 88210

Gentlemen:

Tahoe Energy, Inc. is hereby notifying you of it's application to deepen and convert it's Red Dog #1 (1650' FSL & 1980' FEL, Section 2, T-14-S, R-33-E, N.M.P.M., Lea County, New Mexico to a disposal well in the Cisco formation.

Enclosed is a copy of Tahoe's application. If you have any questions or comments, please feel free to contact me at the number shown above.

Sincerely,

a

Kenneth A. Freeman President - Petroleum Engineer

KAF/jt Enclosures

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LAWYERS

JACK M. CAMPBELL BRUCE D. BLACK MICHAEL B. CAMPBELL WILLIAM F. CARR BRADFORD C. BERGE MARK F. SHERIDAN WILLIAM F. SLATTERY ANNIE-LAURIE COOGAN JEFFERSON PLACE SUITE I - 110 NORTH GUADALUPE POST OFFICE BOX 2208 SANTA FE, NEW MEXICO 87504-2208 TELEPHONE: (505) 988-4421 TELECOPIER: (505) 983-6043

March 29, 1991

William J. Lemay
Oil Conservation Division
New Mexico Department of Energy, Minerals & Natural Resources
State Land Office Building
Santa Fe, New Mexico 87504

Re: Application of Tahoe Energy, Inc. for administrative approval of salt water disposal, Lea County, New Mexico

Dear Mr. Lemay:

Enclosed is an application of Tahoe Energy, Inc., seeking administrative approval to convert its Red Dog Well No. 1 for disposal of produced water into the Cisco formation.

Notice of this application was provided on March 12, 1991, by certified mail to the owner of the surface of the land on which the well was located and to each leasehold operator within one half mile of the well location. No objection to this application has been received from any of these owners. Notice by publication was provided in the Hobbs Daily News-Sun on February 15, 1991, in accordance with the requirements of OCD form C-102. An affidavit of publication is enclosed with this application.

If you need anything further from Tahoe Energy, Inc., to proceed with your consideration of this application, please advise.

y truly yours, Sillianto

William F. Carr Attorney for Tahoe Energy, Inc.

WFC:bh enc.

cc: J. T. Sexton
Supervisor, Oil & Gas Inspector
Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

Kenneth A. Freeman Tahoe Energy, Inc.