CAMPBELL & BLACK, P.A.
LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
J. SCOTT HALL
PETER N. IVES
JOHN H. BEMIS
MARTE D. LIGHTSTONE

GUADALUPE PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

HAND DELIVERED

April 27, 1988

RECEIVED
APR 27 1988
OIL CONSERVATION DIVISION

Bill Lemay, Chairman
New Mexico Oil Conservation Division
New Mexico State Land Office Bldg.
Santa Fe, New Mexico 87504-2088

Re: Application of Texaco Producing, Inc. for Salt Water Disposal, Eddy County, New Mexico

Dear Mr. Lemay:

Enclosed is the Application of Texaco Producing, Inc. for the conversion cf its Salt Mountain 36 State Well No. 1 to salt water disposal. Because the administrative application for this injection well received objections, this matter has been previously set for examiner hearing. Mr. Catanach requested that we file a formal application in this matter.

Very truly yours,

J. Scott Hall

JSH/dmg
encls.

cc: Dennis Wehmeyer

BEFORE THE
NEW MEXICO OIL CONSERVATION DIVISION
DEPARTMENT OF ENERGY AND MINERALS

APPLICATION OF TEXACO PRODUCING, INC.
FOR SALT WATER DISPOSAL, EDDY COUNTY,
NEW MEXICO

Case No. 9373

APPLICATION

Texaco Producing, Inc., by and through its undersigned counsel, applies to the Oil Conservation Division for approval of a salt water disposal well. In support, Applicant states:

1. Applicant seeks authority to utilize its Salt Mountain 36 State Well No. 1 located 660' FNL and 660' FWL (Unit D) Section 36, T-26 S, R-29 E, N.M.P.M., Eddy County, New Mexico, to dispose of produced salt water into the Delaware Formation through an injection interval of 5417 feet through 6170 feet.

2. Available geologic and engineering data indicate no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

3. The subject well can be converted and salt water injected so as not to impair correlative rights or to cause waste.

WHEREFORE, Applicant requests that this matter be set for hearing before one of the Division's duly appointed examiners on May 11, 1988 and, that after notice and hearing as required by law, the Division enter its order approving the Application.

Respectfully submitted:

CAMPBELL & BLACK

By J. Scott Hall

J. Scott Hall
P.O. Box 2208
Santa Fe, New Mexico 87504-2208
(505) 988-4421

Attorneys/Texaco Producing, Inc.

CAMPBELL & BLACK, P.A.
LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
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GUADALUPE PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-442
TELECOPIER: (505) 983-6043

May 6, 1988

Bill Lemay, Director
New Mexico Oil Conservation Division
New Mexico State Land Office Bldg.
Santa Fe, New Mexico 87504-2088

Re: Case No. 9373: Application of Texaco Producing, Inc. for Salt Water Disposal, Eddy County, New Mexico

Dear Mr. Lemay:

On behalf of the applicant, Texaco Producing, Inc., we request that the above case presently set for hearing before an examiner for May 11, 1988 be continued until the examiner hearing for May 25, 1988.

Thank you for your cooperation.

Very truly yours,

J. Scott Hall

JSH/dmg
cc: Dennis Wehmeyer

Texaco U.S.A.

March 25, 1988

Case 9323

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

Attention: Mr. David Catanach

RE: CONVERSION TO SALT WATER DISPOSAL
SALT MOUNTAIN 36 STATE WELL NO. 1
UNIT LETTER D, SEC. 36, T-26-S, R-24-E
EDDY COUNTY, NEW MEXICO

Gentlemen:

Texaco Producing Inc. respectfully requests administrative approval of the reference application by provision in Rule 701.B.3 and 701.D.

In support of this application, you will find attached:

1) Form C-108
2) Map identifying wells and leases within 2-mile radius and the 1/2 mile radius area of review.
3) Table containing data on wells in area of review that penetrate the disposal zone.
4) Injection well data sheet.
5) List of offset operators and surface owner.
6) Letters mailed to offset operator and grazing lease notifying them of this application.
7) Affidavit of publication and copy of legal notice.

Average injection rate into the well will be 600 barrels per day with a maximum of 2000 barrels per day. Average injection pressure will be 1000 psi and the maximum pressure will be 2000 psi. If necessary, the perforations from 6152-70' will be acidized with 1000 gallons of 7-1/2" NEFE HCl acid. If rate and/or pressure is not satisfactory into the interval from 6152-70', then perforations from 5417' to 5931' will be added and acidized with a total of 3500 gallons of 15% NEFE HCl acid. The total injection interval will be from 5417-6170'.

The Quaternary Alluvium (Triassic Redbeds) lie above the disposal zone from the surface to a depth of approximately 400'. Three water wells are in the proximity of the proposed disposal well and an analysis of water from each is attached.

Texaco Producing Inc. has examined available geologic and engineering data and found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Your timely consideration of this application will be greatly appreciated.

Yours very truly,

L. J. Seeman

L. J. Seeman
District Petroleum Engineer

LDR:jss

Attachments

cc: NMOCD
Artesia, NM

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

Revised 7-1-81

Case 9373

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: Texaco Producing Inc.

Address: P. O. Box 728, Hobbs, New Mexico, 88240

Contact party: L. J. Seeman Phone: (505) 393-7191

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the 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 available 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: L. J. Seeman Title Dist. Petr. Engr.

Signature: L. J. Seeman Date: March 25, 1988

* 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. _____

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:

(1) 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;

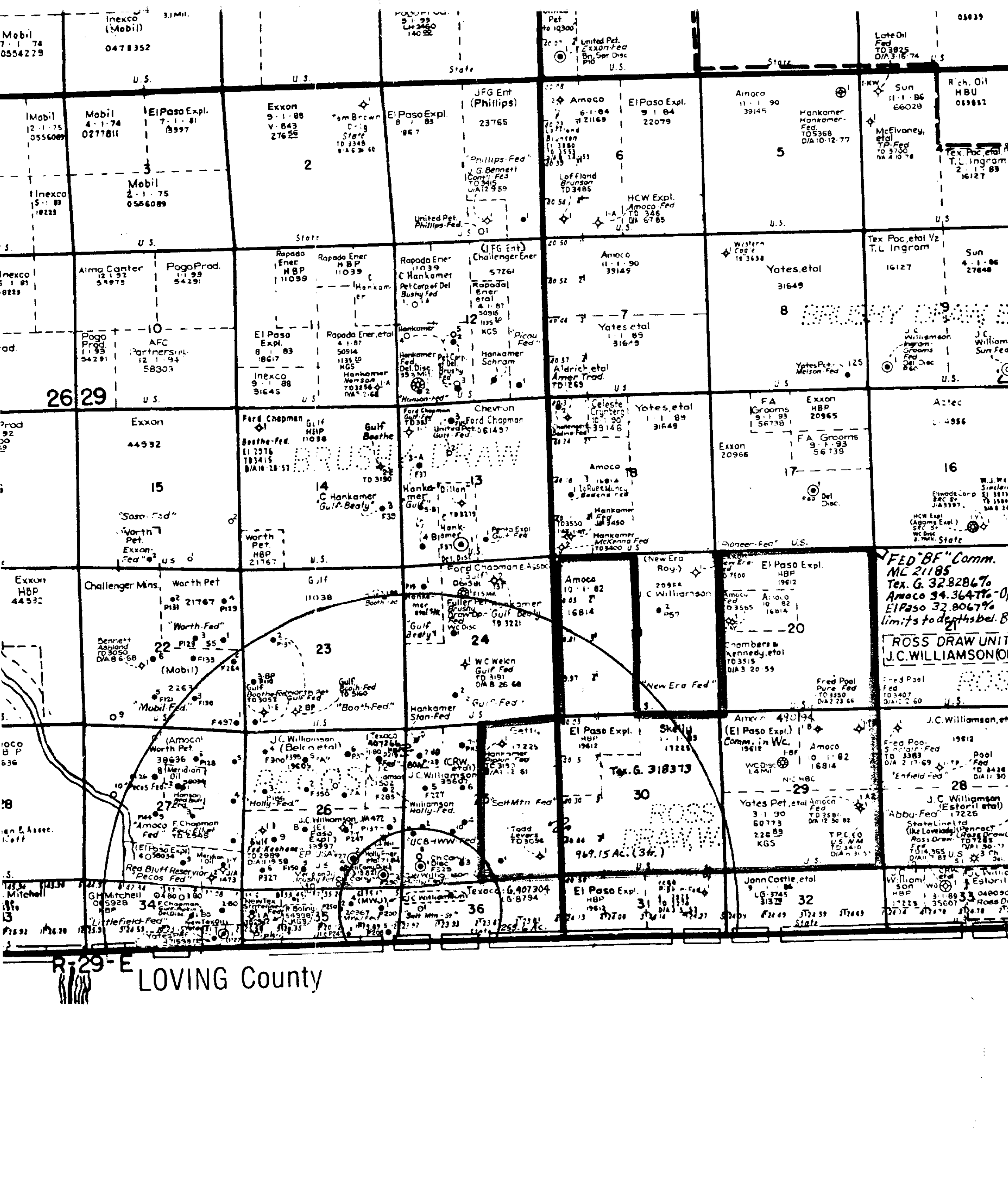
(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(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. O. 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.



Inexco (Mobil)
0478352
Mobil
El Paso Expl.
Exxon
Tom Brown
State
JFG Ent (Phillips)
23765
Phillips Fed
J. G. Bennett
United Pet.
Amoco
El Paso Expl.
22079
Lofflond Brunson
HCW Expl.
Amoco Fed
Hankamer
Hankamer Fed
McElvaney, etal
Sun
Rich. Oil HBU
Tex. Pac. etal
T. L. Ingram
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Alma Canter
Pogo Prod.
Rapado Ener
HBP
11099
C Hankamer
Pet Corp of Del Bushy Fed
JFG Ent Challenger Ener
57261
Western Cagle
Amoco
39149
Yates, etal
31649
Tex Pac, etal 1/2 T.L. Ingram
16127
Pogo Prod.
AFC Partners
58303
El Paso Expl.
Inexco
Rapado Ener, etal
Hankamer Henson
Hankamer Schram
Aldrich, etal Amer Trad
Yates, etal
J.C. Williamson
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Exxon
44932
Ford Chapman
Gulf HBP
Gulf Beathe
Beathe-Fed
BRUSHY DRAW
Ford Chapman
Chevron
Celeste Grynberg
Yates, etal
FA Grooms
Exxon HBP
20965
Exxon
20966
F A Grooms
56738
Aztec
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C Hankamer
Gulf-Beaty
Worth Pet.
Exxon
Worth Pet HBP
Amoco
Hankamer McKenna Fed
Pioneer-Fed
Exxon HBP
44932
Challenger Mins.
Worth Pet
Worth-Fed
Gulf
11038
Ford Chapman & Assoc
Fuller Pet Hankamer
Gulf Beaty
Amoco
16814
New Era Roy.
J.C. Williamson
El Paso Expl.
Amoco
Fed "BF" Comm.
MC 21185
Tex. G. 32.8286%
Amoco 34.3647%
El Paso 32.8067%
ROSS DRAW UNIT
J.C. WILLIAMSON
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21
(Mobil)
Mobil-Fed
Booth-Fed
W C Welch Gulf Fed
Hankamer Stan-Fed
Gulf-Fed
New Era Fed
Chambers & Kennedy, etal
Fred Pool
(Amoco) Worth Pet
J.C. Williamson
Getty
El Paso Expl.
Skelly
Tex. G. 318373
Amoco 490194
(El Paso Expl.) Comm. in Wc.
Amoco
J.C. Williamson, etal
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Amoco Fed
(El Paso Expl.)
Red Bluff Reservoir
Pecos Fed
Holly-Fed
Williamson Holly-Fed
UCB-IWW-Fed
Sett Mtn Fed
Todd Levers
ROSS DRAW
969.15 Ac. (3 tr.)
Yates Pet., etal
60773
KGS
J. C. Williamson (Estoril etal)
Abby-Fed
G H Mitchell
34
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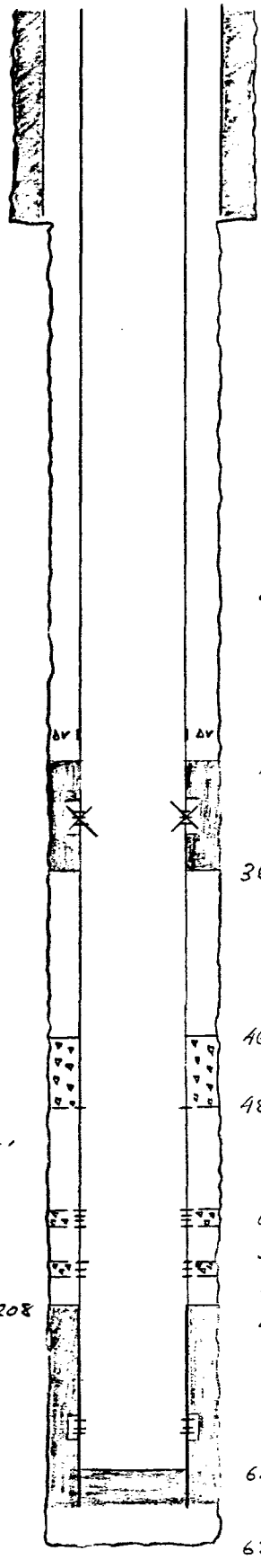
36
31
32
33
Texaco G 407304
G 8794
El Paso Expl. HBP
John Castle, etal
Littlefield-Fed
State
R-29-E
LOVING County

SALT MOUNTAIN 36 STATE WELL NO. 1



$8\frac{5}{8}$" 24 # J-55 CSG SET @ 485' WITH 525 SX. CEMENT DID NOT CIRCULATE. DUMPED 200 SX DOWN ANNULUS. DUMPED 3/4 YARDS REDI-MIX. GOT CEMENT TO SURFACE. HOLE SIZE: $12\frac{1}{4}$".

$5\frac{1}{2}$" 15.5 # K-55 CSG SET @ 6256' WITH 1000 SX IN TWO STAGES:
1ST STAGE: 700 SX. CEMENT DID NOT CIRCULATE. T/CMT @ 5208 BY CBL. (DV TOOL @ 2888')
2ND STAGE: 300 SX. CEMENT DID NOT CIRCULATE. T/CMT @ 2960' BY CBL. BOTTOM OF CMT @ 3650'. (APPEARS THAT CEMENT WENT DOWN.)
HOLE SIZE: $7\frac{7}{8}$".

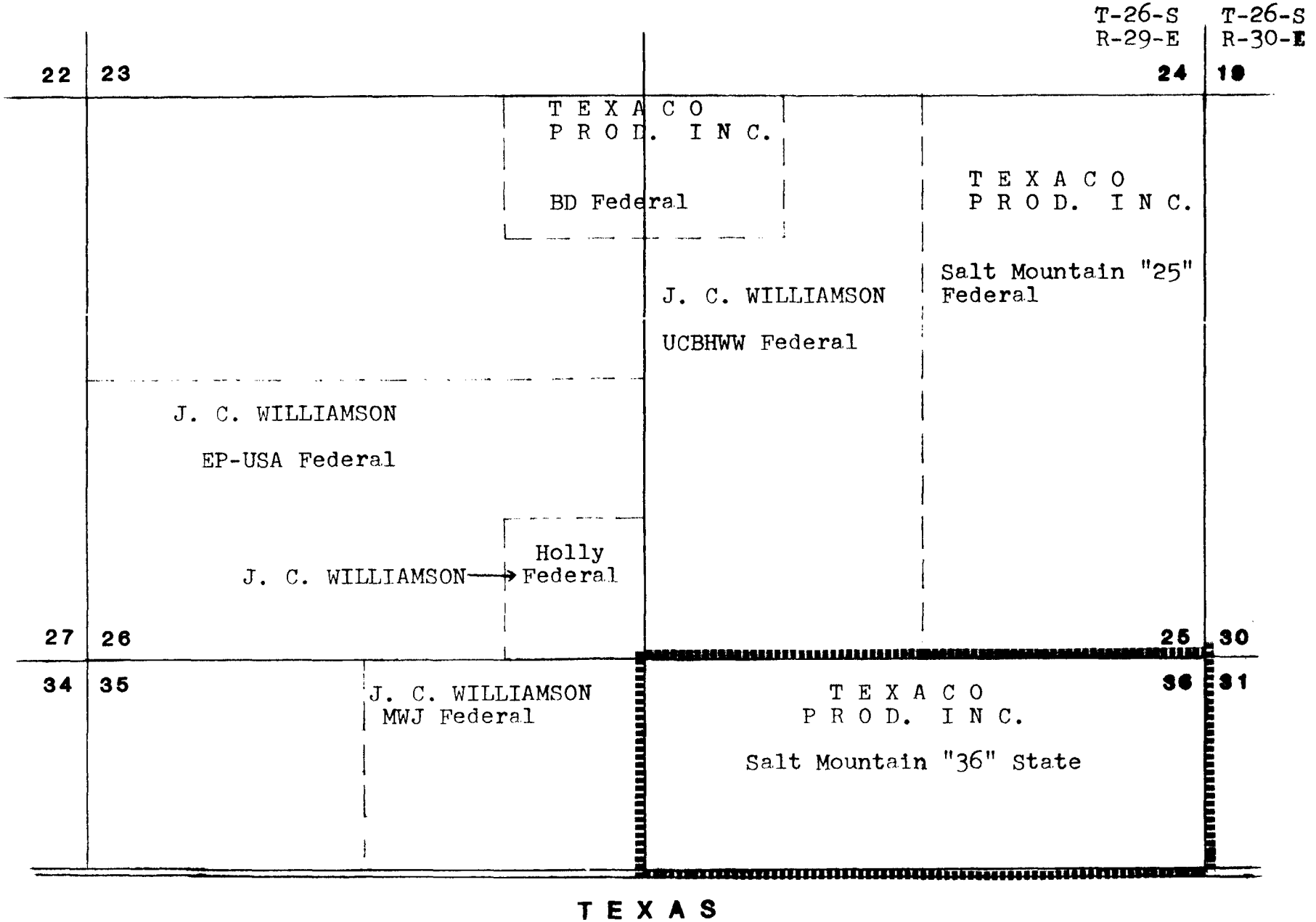
RAMSEY PERFS:
1 JSPF: 3014'-3050', 3072'-3088'

SQUEEZE HOLES AT 4800' - SQUEEZED WITH 200 SX. CEMENT FROM 4800' TO 4674' BY GR LOG.

DELAWARE PERFS -
1 JSPF: 5080'-5101', 5110'-5120'.

ORIGINAL PERFS 5077'-5160 WERE SQUEEZED WITH 200 SX, BROKE DOWN WITH ACID AND FRAC'D, AND SQUEEZED WITH A SECOND 200 SX.

DELAWARE PERFS -
1 JSPF: 6152'-6170


T-26-S
R-29-E
T-26-S
R-30-E
22
23
24
19
TEXACO
PROD. INC.
BD Federal
TEXACO
PROD. INC.
Salt Mountain "25"
Federal
J. C. WILLIAMSON
UCBHWW Federal
J. C. WILLIAMSON
EP-USA Federal
J. C. WILLIAMSON
Holly
Federal
27
26
25
30
34
35
J. C. WILLIAMSON
MWJ Federal
36
31
TEXACO
PROD. INC.
Salt Mountain "36" State
TEXAS

OFFSET OPERATOR
SALT MOUNTAIN 36 STATE
EDDY COUNTY, NEW MEXICO

J. C. Williamson
P. O. Box 16
890 One First City Center
Midland, Texas 79707

SURFACE OWNER

State Owned Leased To: Robert Boling
305 S. 5th St.
Artesia, New Mexico 88210

Texaco U.S.A.

March 25, 1988

J. C. Williamson
P. O. Box 16
890 One First City Center
Midland, Texas 79707

RE: CONVERSION TO SALT WATER DISPOSAL
SALT MOUNTAIN 36 STATE WELL NO. 1
UNIT LETTER D, SEC. 36, T-26-S, R-29-E
EDDY COUNTY, NEW MEXICO

Gentlemen:

This is to notify you, as an Offset Operator, that Texaco Producing Inc. is requesting the New Mexico Oil Conservation Division to approve disposal of water into the Delaware formation at a depth of 5417-6170' into the referenced well. A copy of our request, Form C-108, plat and legal notice are attached for your information.

Objection to this request or a request for hearing should be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days following receipt of this letter.

Yours very truly,

L. J. Seeman

L. J. Seeman
District Petroleum Engineer

LDR:jss

Attachments

Texaco U.S.A.

March 25, 1988

Mr. Robert Boling
305 S. 5th Street
Artesia, New Mexico 88210

RE: CONVERSION TO SALT WATER DISPOSAL
SALT MOUNTAIN 36 STATE WELL NO. 1
EDDY COUNTY, NEW MEXICO

Dear Sir:

In compliance with New Mexico Oil Conservation Division Rule 701.B.2, Texaco Producing Inc. hereby notifies you that an application to convert the reference well to a salt water disposal well has been submitted to the Oil Conservation Division. The water will be injected into the Delaware formation at a depth of 5417-6170'. The well is located 660' FNL and 660' FWL of Section 36, T-26-S, R-29-E.

Only the surface area absolutely required will be used in operating the well. The well is cased and cemented in such a way that all surface and subsurface fresh waters will be protected.

Objections to this request or a request for hearing should be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days following receipt of this letter.

A copy of our request and a map are attached for your information. If there are any questions, please do not hesitate to call this office.

Yours very truly,

J. A. Schaffer
District Operations Manager

LDR:jss

Attachments

№ 10285

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

E. C. Cantwell, being first duly sworn, on oath says:

That he is publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

March 17, , 19 88

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, 19

, 19

that the cost of publication is $ 9.70, and that payment thereof has been made and will be assessed as court costs.

E C Cantwell

Subscribed and sworn to before me this 22 day of March, 19 88

Dorella Dayle

My commission expires 6/01/88
Notary Public

March 17, 1988
LEGAL NOTICE

Notice is hereby given of the application of Texaco Producing, Inc., Attention: L.J. Seeman, District Petroleum Engineer, P.O. Box 728, Hobbs, New Mexico, 88240, telephone (505) 393-7191, to the Oil Conservation Divison, New Mexico Energy & Minerals Department, for approval of the following injection well(s) for the purpose of SWD.:

Well(s) No(s).: 1
Lease/Unit Name: Salt Mountain 36 State
Location: 660' FNL & 660' FWL, Section 36, T-26-S, R-29-E Eddy County, New Mexico.
The injection formation is Delaware at a depth of 5417 feet below the surface of the ground.

Expected maximum injection rate is 2000 barrels per day, and expected maximum injection pressure is 3000 pounds per square inch. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.

Champion Chemicals, Inc.

P.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: JOHN BRADY
cc: DAN WESTOVER-DAN JONES
cc:
cc:
Company: TEXACO
Address:
Service Engineer: JIM SPRADLEY

Date sampled: 11-23-87
Date reported: 11-24-87
Lease or well # : SALT MT 25-1
County: State:
Formation:
Depth:
Submitted by: JIM SPRADLEY

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	196000	5529
Iron (Fe) (total)	52.0	
Total hardness	116200	
Calcium (Ca)	30195	1507
Magnesium (Mg)	9938	798
Bicarbonates (HCO3)	61	1
Carbonates (CO3)	n/a	
Sulfates (SO4)	29	1
Hydrogen sulfide (H2S)	8	
Carbon dioxide (CO2)	n/a	
Sodium (Na)	74194	3226
Total dissolved solids	310419	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	

Specific Gravity	1.221
Density (#/gal.)	10.175
pH	5.600
IONIC STRENGTH	6.68
RESISTIVITY	0.046 @76.8F

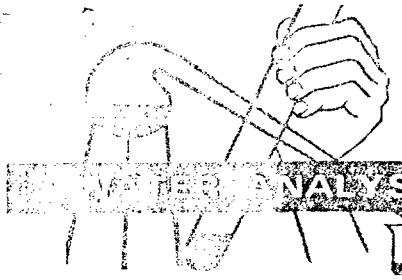
Stiff-Davis (CaCO3) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = +1.46
104 F = +1.69
122 F = +1.94
140 F = +2.23
158 F = +2.55

This water is 906 mg/l (-95.67%) under ITS CALCULATED CaSO4 saturation value at 82 F.
SATURATION= 947 mg/L PRESENT= 41 mg/L

REPORTED BY RANDOLPH SCOTT
CHEMIST

REPRESENTATIVE WATER ANALYSIS FROM DELAWARE



WATER ANALYSIS REPORT

Champion Chemicals, Inc.
BOX 4513
ODESSA, TEXAS 79760

TECH SERVICE LABORATORY: Odessa, Texas Phone (915) 337-0055 & 563-0863
RESEARCH LABORATORY: Houston, Texas Phone (713) 431-2561
PLANT: Odessa, Texas Phone (915) 337-0055

REPORT FOR Ralph Williamson
CC Joe Baccus
CC Jerry Skidmore
CC
COMPANY Williamson & Williamson
ADDRESS
SERVICE ENGINEER Kathy Marshall

DATE SAMPLED 1/31/85
DATE REPORTED 2/5/85
FIELD, LEASE, OR WELL Water Well
COUNTY STATE
FORMATION
DEPTH
SUBMITTED BY Kathy Marshall

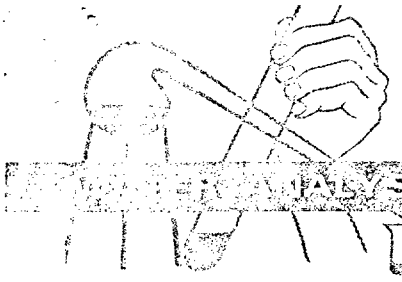
CHEMICAL ANALYSIS

Chemical Component	Field, Lease, or Well: Water Well					
Chloride (Cl)	7000					
Iron (Fe)	0					
Total Hardness ($CaCO_3$)						
Calcium (Ca)	1218					
Magnesium (Mg)	256					
Bicarbonate (HCO_3)	109					
Carbonate (CO_3)	0					
Sulfate (SO_4)	1725					
Hydrogen Sulfide (H_2S)	0					
Specific Gravity	1.0					
Density, lb/gal TDS	13823					
pH - Beckman [X] Strip [ ]	7.4					
Sodium	3513					
Scale Index						
$CaCO_3$ @ 85F	0.212					
$CaCO_3$ @ 160F	1.38					
$CaSO_4$ @ 85F	negative					
$CaSO_4$ @ 160F	positive					

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY Joe Edwards TITLE Tech S

426



WATER ANALYSIS REPORT

Champion Chemicals, Inc.
BOX 4513
ODESSA, TEXAS 79760

TECH SERVICE LABORATORY: Odessa, Texas Phone (915) 337-0055 & 563-0853
RESEARCH LABORATORY: Houston, Texas Phone (713) 431-2561
PLANT: Odessa, Texas Phone (915) 337-0055

REPORT FOR: Ralph Williamson
CC: Jerry Skidmore
CC:
CC:
COMPANY: Williamson & Williamson
ADDRESS:
SERVICE ENGINEER: Kathy Marshall

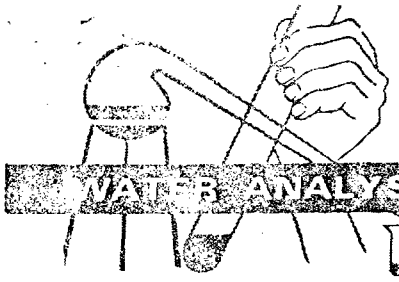
DATE SAMPLED: 4/1/85
DATE REPORTED: 4/3/85
FIELD, LEASE, OR WELL: Fresh Water Well
COUNTY: N.M. STATE:
FORMATION:
DEPTH:
SUBMITTED BY: Kathy Marshall

CHEMICAL ANALYSIS OF WATER

Chemical Component	Field, Lease, or Well					
Chloride (Cl)	11000					
Iron (Fe)	0					
Total Hardness ($CaCO_3$)	5000					
Calcium (Ca)	800					
Magnesium (Mg)	729					
Bicarbonate (HCO_3)	146					
Carbonate (CO_3)	0					
Sulfate (SO_4)	950					
Hydrogen Sulfide (H_2S)	0					
Specific Gravity	1.014					
~~Density~~ lb/gal. TDS	18961					
pH - Beckman [ ] Strip [X]	7.10					
Sodium	5336					
Scale Index						
$CaCO_3$ @ 85F	-0.27					
$CaCO_3$ @ 150F	+0.87					
$CaSO_4$	negative					

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY: Joe Edwards TITLE: Tech Service



WATER ANALYSIS REPORT

Champion Chemicals, Inc.
BOX 4513
ODESSA, TEXAS 79760

TECH SERVICE LABORATORY: Odessa, Texas Phone (915) 337-0055 & 563-0353
RESEARCH LABORATORY: Houston, Texas Phone (713) 431-2561
PLANT: Odessa, Texas Phone (915) 337-0055

REPORT FOR: Ralph Williamson
CC: Jerry Skidmore
CC:
CC:
COMPANY: Williamson & Williamson
ADDRESS:
SERVICE ENGINEER: Kathy Marshall

DATE SAMPLED: 4/1/85
DATE REPORTED: 4/4/85
FIELD, LEASE, OR WELL: Fresh Water Well
COUNTY: STATE:
FORMATION:
DEPTH:
SUBMITTED BY: Kathy Marshall

CHEMICAL ANALYSIS

Chemical Component	Field, Lease, or Well					
Chloride (Cl)	5200					
Iron (Fe)	0					
Total Hardness ($CaCO_3$)	5000					
Calcium (Ca)	800					
Magnesium (Mg)	729					
Bicarbonate (HCO_3)	146					
Carbonate (CO_3)	0					
Sulfate (SO_4)	950					
Hydrogen Sulfide (H_2S)	0					
Specific Gravity	1.007					
~~Density, lb/gal.~~ TDS	9389					
pH - Beckman [ ] Strip [ ]	7.10					
Sodium	1564					
Scale Index						
CaCO3 @ 80F	-0.01					
CaCO3 @ 160F	+1.03					
CaSO4	Negative					

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY: Joe Edwards TITLE: Tech Service

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Texaco Producing Inc.	Salt Mountain 36 State			
WELL NO.	**FOOTAGE LOCATION**	**SECTION**	**TOWNSHIP**	**RANGE**
1	660' FNL & 660' FWL	36	26-S	29-E

Schematic

See Attached Diagram

Tabular Data

Surface Casing

Size 8-5/8 " Cemented with 725 sx.

TOC Surface feet determined by Visual Inspection

Hole size 12-1/4"

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5-1/2" " Cemented with 1000 sx.

TOC 2960 feet determined by Cement Bond Log

Hole size 7-7/8"

Total depth 6300'

Injection interval

5417 feet to 6170 feet

(perforated or open-hole, indicate which)

Tubing size 2-7/8" lined with Cement (material) set in a

Baker Model TSN II (brand and model) packer at ± 5375 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Delaware

2. Name of Field or Pool (if applicable) Brushy Draw Delaware

3. Is this a new well drilled for injection? /7 Yes XX No

   If no, for what purpose was the well originally drilled? Oil Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) 5077-5170 sqz. w/200 sxs, resqueezed w/another 200 sxs, 3014-3088 sqz w/400 sxs, 5080-5120 current perforated interval will be sqzd w/100 sxs during conversion work 6152-6170 CIBP set @ 6050 these perfs will be used in injection interval.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Ramsey 3000', Wolfcamp 11,479'

WELLS WITHIN 1/2 MILE RADIUS OF TPI'S SALT MOUNTAIN 36 STATE WELL NO. 1
THAT PENETRATE THE PROPOSED INJECTION INTERVAL

OPERATOR, WELL, NAME & NO.	FORMATION	TOTAL DEPTH	DATE DRILLED	CURRENT STATUS	HOLE SIZE	CASING SIZE	DEPTH	CEMENT (SX)	TOC	DETERMINED BY
J. C. Williamson										
Holly Federal No. 1	Brushy Draw Delaware	6250'	7-23-82	Producing	17-1/2"	12-3/4"	378'	650	Surface	Circulated
					11"	8-5/8"	2900'	150	2483'	Calc. 60% fill up
					7-7/8"	4-1/2"	6250'	900	2450'	Temp. Survey
MWJ Federal No. 1	Brushy Draw Delaware	6220'	9-26-82	Producing	17-1/2"	12-3/4"	350'	425	Surface	Circulated
					11"	8-4/8"	2850'	150	2500'	Temp. Survey
					7-7/8"	4-1/2"	6220'	1050	2956'	Calc. 60% fill up
MWJ Federal No. 2	Brushy Draw Delaware	6250'	11-11-83	Producing	17-1/2"	12-3/4"	373'	375	36'	Calc. 60% fill up
					11"	8-5/8"	2790'	150	2372'	Calc. 60% fill up
					7-7/8"	4-1/2"	6250'	1450	1743'	Calc. 60% fill up
MWJ Federal No. 3	Brushy Draw Delaware	6350'	1-09-84	Producing	17-1/2"	12-3/4"	365'	375	Surface	Circulated
					11"	8-5/8"	2822'	150	2404'	Calc. 60% fill up
					7-7/8"	4-1/2"	6350'	1350	2070'	Temp. Survey
MWJ Federal No. 5	Brushy Draw Delaware	6260'	1-12-86	Producing	17-1/2"	13-3/8"	413'	450	Surface	Calc. 60% fill up
					11"	8-5/8"	2800'	200	2243'	Calc. 60% fill up
					7-7/8"	5-1/2"	6260'	950	2378'	Calc. 60% fill up
UCBHWW Federal No. 1	Brushy Draw Delaware	6250'	4-29-82	Producing	17-1/2"	12-3/4"	358'	720	Surface	Circulated
					11"	8-5/8"	2959'	125	2611'	Calc. 60% fill up
					7-7/8"	4-1/2"	6250'	900	2840'	Temp. Survey
UCBHWW Federal No. 2	Brushy Draw Delaware	6285'	9-14-82	Producing	17-1/2"	12-3/4"	358'	425	Surface	Circulated
					11"	8-5/8"	2936'	150	2620'	Temp. Survey
					7-7/8"	4-1/2"	6285'	1375	1900'	Temp. Survey
UCBHWW Federal No. 3	Brushy Draw Delaware	6270'	4-18-83	Producing	17-1/2"	12-3/4"	363'	425	Surface	Circulated
					11"	8-5/8"	2869'	150	2200'	Temp. Survey
					7-7/8"	4-1/2"	6270'	1400	2000'	Temp. Survey

P-562 874 923

CERTIFIED MAIL

INTERNATIONAL MAIL

(See Reverse)

U.S.G.P.O. 153-506

Sent to Robert Boling

Street and No 305 S. 5th St.

P.O., State and ZIP Code Artesia, N.M. 88210

Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

Form 3800, June 1985

P-562 874 924

RECEIPT FOR CERTIFIED MAIL

U.S.G.P.O. 153-506

Sent to J.C. Williamson

Street and No P O Box 16
890 One First City Center

P.O., State and ZIP Code Midland, Texas 79707

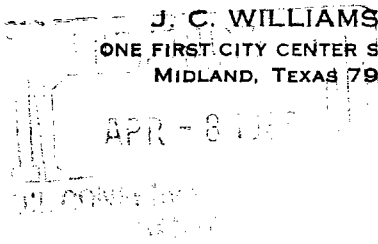
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	
Postmark or Date	

PS Form 3800, June 1985

P. O. BOX 16

AREA CODE 915
PHONE 682-1797

J. C. WILLIAMSON
ONE FIRST CITY CENTER SUITE 890
MIDLAND, TEXAS 79701



April 6, 1988

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

Attention: Mr. David Catanach

Re: Conversion to Salt Water
Disposal of the Salt Mtn.
36 State 1, Unit Letter D,
Section 36, T-26-S, R-30-E
Eddy County, New Mexico

Dear Sir,

In response to the March 25, 1988 request, received by registered mail at this office on March 28, 1988, by Texaco to convert the referenced well to salt water disposal, I would like to register the strongest protest possible to this conversion, since the proposed injection zones are actively producing in several of my wells offset to the proposed injection well. We call these zones our Getty and MWJ zones, and we consider these zones to have major oil and gas reserves, that would suffer grievous and irrevocable damage if water was injected in the manner proposed by Texaco.

I respectively request that the New Mexico Oil Conservation Commission schedule a hearing so that we may present evidence to sustantiate our claims, and prevent a gross waste of precious natural resources.

Yours very sincerely,

J. C. Williamson

J.C. Williamson

cc: Texaco USA
Hobbs, New Mexico
NMOCC
Santa Fe, New Mexico
NMOCC
Artesia, New Mexico