

SWD-275
RELEASE JULY 9, 1984

June 1, 1984

State of New Mexico,
Energy and Minerals Department,
Oil Conservation Division
I.C. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

RECEIVED
JUL 10 1984
SANTA FE

Re: Application of Double "C" Enterprises for Salt Water Disposal Well.

Gentlemen:

It is respectfully requested that the Oil Conservation Division of the Energy and Minerals Department grant their administrative approval to the application of Double "C" Enterprises, for a salt water disposal well in Lea County, New Mexico.

The petitioner for administrative approval (Double "C" Enterprises) is hereby submitting Form C-108 along with all exhibits and requirements in accordance with the rules and regulations of the Commission.

The petitioner (Double "C" Enterprises) would like to state the following:

1. Principal address of Double "C" Enterprises is P.O. Box 147, Lovington, N.M. 88260. Phone number is area code (505) 396-3331. Principal contact is Mr. Roland Caudill.
2. The well to be used for salt water disposal is the Double "C" Enterprises, Aztec State No. 1. Well is located in in Unit J, 1980' FSL, 1980' FEL, Section 18-T16S-R37E, in Lea County, New Mexico.
3. That the manner and method of preparing the well for salt water disposal is mechanically feasible.
4. That Double "C" Enterprises will comply with all rules and regulations as set out by the Oil Conservation Division of the Energy and Minerals Department, State of New Mexico, as relates to salt water disposal.
5. That this application has been sent by registered return receipt requested, mailing to all leasehold operators and the surface owners of the land within a one-half mile radius of the well location.

Respectfully submitted this 10th day of June, 1984.

Roland E. Caudill
Roland Caudill

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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OPERATOR	

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
OG-4765	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: Salt Water Disposal		7. Unit Agreement Name
2. Name of Operator Double "C" Enterprises		8. Farm or Lease Name Aztec State
3. Address of Operator P. O. Box 147, Lovington, NM 88260		9. Well No. 1
4. Location of Well UNIT LETTER <u>J</u> <u>1980</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>18</u> TOWNSHIP <u>16S</u> RANGE <u>37E</u> NMPM.		10. Field and Pool, or Wildcat undesigned-Wolfcamp
15. Elevation (Show whether DF, RT, GR, etc.) 3837GL(EST)		12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Convert to SWD	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

We propose to set a baker packer at 10,450' with tubing set at 10,500'.

We propose to acidize the well with 1,000 gal. 15% acid.

We expect the well to take fluid on a vacuum, however, if it doesn't, we propose to set an injection pump to pressurize the well.

The proposed average and maximum daily rate of injection is 1500 BW/D, and 3,000 BW/D respectively. This system is to be an open system with a proposed average and maximum injection pressures of 500 PSI and 1,000 PSI respectively. Most all of the injected salt water will be from the Wolfcamp and Atoka zones and should present no formation problems. This project is to be started immediately upon approval from the Oil Conservation Commission.

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

SIGNED Roland E. Candill TITLE Partner DATE 5-31-84

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
							X		X
Date Spudded 11-18-67	Date Compl. Ready to Prod. 1-30-68	Total Depth 11,536		P.B.T.D. 11,025					
Elevations (DF, RKB, RT, GR, etc.) 3837GL(EST)	Name of Producing Formation Wolfcamp	Top Oil/Gas Pay		Tubing Depth 10,500					
Perforations 10,786-94* (9 holes .38")		10,738-46* (9Holes .38")		Depth Casing Shoe					
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT				
13-3/8	48		371		340				
8-5/8	24 & 32		4,337		650				
4 1/2	11.6 & 13.5		11,536		200				
2 5/8			10,500		packer				

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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	GAS
OPERATOR	
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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator	Double "C" Enterprises	
Address	P. O. Box 147, Lovington, NM 88260	
Reason(s) for filing (Check proper box)	Other (Please explain)	
<input type="checkbox"/> New Well <input type="checkbox"/> Recompletion <input checked="" type="checkbox"/> Change in Ownership	Change in Transporter of: <input type="checkbox"/> Oil <input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Dry Gas <input type="checkbox"/> Condensate Conversion to salt water disposal

If change of ownership give name and address of previous owner Pennzoil Company P. O. Drawer 1828 Midland, Tx. 79702-1828

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Aztec State	1	undesignated-Wolfcamp	State, Federal or Fee State	OG-4765
Location				
Unit Letter	J	1980	Feet From The	South Line and 1980 Feet From The East
Line of Section	18	Township	16S	Range 37E, NMPM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which 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

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Roland E. Caudill
(Signature)
Partner
(Title)
5-15-84
(Date)

OIL CONSERVATION DIVISION

APPROVED _____, 19____
BY _____
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☒ no
- II. Operator: Double "C Enterprises
Address: P. O. Box 147 Lovington, NM 88260
Contact party: Roland E. Caudill Phone: 396-3331 (505)
- 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: Roland E. Caudill Title Partner
Signature: Roland E. Caudill Date: 5-15-84
- * 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. VI. Submitted upon completion as required. X. logs
filed upon well completion as required.
- 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.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. OG-4765	

1. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER SWD

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER SWD

2. Name of Operator
Double "C" Enterprises

3. Address of Operator
P. O. Box 147 Lovington, NM 88260

4. Location of Well

UNIT LETTER J LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM

THE East LINE OF SEC. 18 TWP. 16S RGE. 37E NMPM

15. Date Spudded 11-18-67 16. Date T.D. Reached 1-14-68 17. Date Compl. (Ready to Prod.) 1-30-68 18. Elevations (DF, RKB, RT, GR, etc.) 3837 GL (est)

20. Total Depth 11,536 21. Plug Back T.D. 11,025 22. If Multiple Compl., How Many 0-11536

24. Producing Interval(s), of this completion - Top, Bottom, Name

7. Unit Agreement Name

8. Farm or Lease Name
Aztec State

9. Well No.
1

10. Field and Pool, or Wildcat
undesignated

12. County

25. Type Electric and Other Logs Run
Electric, Microlog, Sonic, Gama Ray

19. Elev. Casinghead
3838 (est)

23. Intervals Drilled By Rotary Tools Cable Tools
0-11536

25. Was Directional Survey Made
No

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-318	48	321	17 1/2	340 sacks (circ)	None
8-518	24 & 32	4,337	11	650 sacks	None
4 1/2	11.6 & 13.5	11,536	7 7/8	200 sacks	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2-3/8	11,369	11,305

31. Perforation Record (Interval, size and number)

Perf.w/1 JSPF from 10,786-94' (9holes .38")

Perf w/2 JSPF from 10,738-46' (9holes .38")

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production TA Production Method (Flowing, gas lift, pumping - Size and type pump)

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Roland E. Candill TITLE Partner DATE 5-31-84

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of a newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>2110</u>	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn <u>11,264</u>	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka <u>11,470</u>	T. Pictured Cliffs	T. Penn. "D"
T. Yates <u>3252</u>	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madisor
T. Queen <u>4187</u>	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres <u>4994</u>	T. Simpson	T. Gallup	T. Ignacio Qtzite
T. Glorieta <u>6390</u>	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinbry	T. Gr. Wash	T. Morrison	T.
T. Tubb <u>7685</u>	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo <u>8404</u>	T. Bone Springs	T. Wingate	T.
T. Wolfcamp <u>9910</u>	T.	T. Chinle	T.
T. Penn.	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	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.....to.....feet
No. 2, from.....to.....feet
No. 3, from.....to.....feet
No. 4, from.....to.....feet

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	2110	2110	Red beds, Sand & Sh.				
2110	3252	1142	Salt, Anhy & Gypsum				
3252	4994	1742	Red Sh, Anhy, Sand & Dolomite				
4994	9910	4916	Dolo, Lime, Sd & Green & Gray Shale				
9910	11000	1090	LM, Chert & Grn & Gray Shale				
11000	11536	536	LM, Chert & Gray Sh				

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Double "C" Enterprises	Aztec		State	
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	1980 FSL, 1980 FEL	18	165	37E

Schematic

Ground Level
surface casing
cement

Tabular Data

Surface Casing

Surface casing 13-3/8" @ 371' Size 13-3/8 " Cemented with 340 sx.
 TOC surface feet determined by circulation
 Hole size 17-1/2"

Intermediate Casing

Size 8-5/8 " Cemented with 650 sx.
 TOC 2,810' feet determined by estimated & log
 ← Top of cement 2,810' outside 8-5/8" casing Hole size 11"

Long string

← Intermediate casing; 8-5/8" @ 4,337' Size 4-1/2 " Cemented with 200 sx.
 TOC 10,460 feet determined by estimated & log
 Hole size 7-7/8"
 Total depth 11,536

Injection interval

10,738 feet to 10,794 feet
 (perforated or open-hole, indicate which)
 perforated w/1 JSFF from 10,786-94"
 (9 holes .38 inch diameter)
 perforated w/1 JSFF from 10,738-46"
 (9 holes .38 inch diameter)

Baker
 Model "R"
 bottom of
 2-3/8"
 tubing @
 10,500'

← Top of cement 10,460' outside 4-1/2" casing
 ← 18 holes .38 inch diameter @ 10,738' to 10,794' (Wolfcamp zone)
 ← 4-1/2" Halliburton EZ drill bridge plug @ 11,060' with 35' cement on top.
 ← 20/.43" perforations from 11,336' to 11,386' (Strawn zone)
 ← 4-1/2" casing set at 11,536'

Tubing size 2-3/8" lined with Elastic set in a
 (material)

Baker Model "R" packer at 10,500 feet
 (brand and model)

(or describe any other casing-tubing seal).

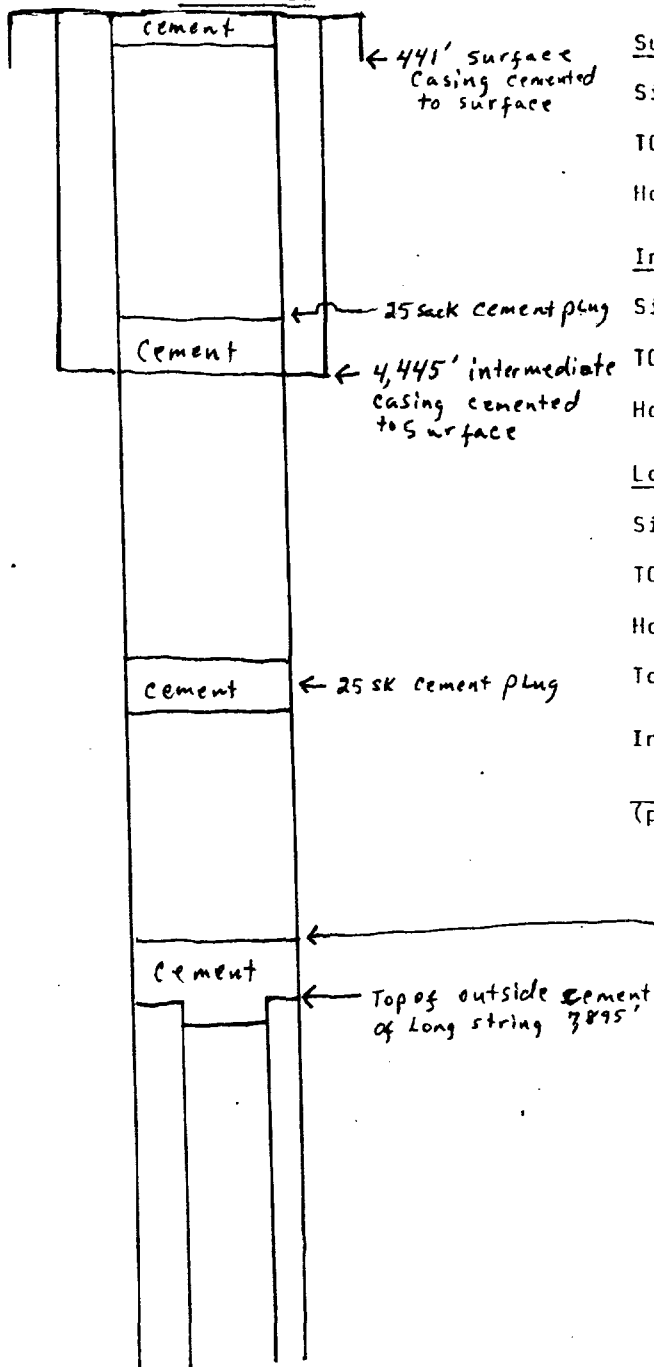
Other Data

- Name of the injection formation Wolfcamp
- Name of Field or Pool (if applicable) East Lovington
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil & gas production

- 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) yes. Perforated at 1-43 hole @ each: 11,336; 11,338; 11,340; 11,342; 11,353; 11,355; 11,357; 11,359; 1-43 hole/ft. 11,374-11,386; Set 4-1/2" bridge plug @ 11,060' spotted 35' cement on top.
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. 3252'=Yates; 4182'=Queen; 4994'=San Andres; 6390'=Glorietta; 7685'=Tubb; 8404'=Abo; 9210'=Wolfcamp; 11,264'=Strawn; 11,470'=ATOKA

OPERATOR	LEASE	Unit Letter		
Getty Oil Co.	H. A. Montieth "D"	N		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	2333.8FWL, 660FSL	18	16S	37E

Schematic



Tabular Data

Surface Casing

Size 13-3/8 " Cemented with 475 sx.
 TOC Surface feet determined by Circulation
 Hole size 17-1/2 "

Intermediate Casing

Size 8-5/8 " Cemented with 1420 sx.
 TOC Surface feet determined by Circulation
 Hole size 11 "

Long string

Size 5-1/2 " Cemented with 580 sx.
 TOC 8000 feet determined by Shot & Pull
 Hole size 7-7/8 "

Total depth 11,441

Injection interval

11,261 feet to 11,342 feet Perforated
 (perforated or open-hole, indicate which)

7,895' of 5-1/2" casing pulled

25 sack cement plug from 7998' to 7904'

25 sack cement plug from 6333' to 6237'

25 sack cement plug from 4455' to 4361'

10 sack cement plug in top surface

installed dry hole marker 1-7-69

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	

1a. TYPE OF WELL				7. Unit Agreement Name													
b. TYPE OF COMPLETION				8. Farm or Lease Name													
NEW <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>				H.T. Montieth "B"													
2. Name of Operator				9. Well No.													
Getty Oil Company				1													
3. Address of Operator				10. Field and Pool, or Wildcat													
P.O. Drawer D D Levelland, Texas 79336				Undesignated													
4. Location of Well																	
UNIT LETTER _____ LOCATED 600 FEET FROM THE North LINE AND 2334 FEET FROM				12. County													
THE West LINE OF SEC. 19 TWP. 16-S RGE. 37-E NMPM				Lea													
15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.)		19. Elev. Casinghead									
						3847'											
20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many		23. Intervals Drilled By		Rotary Tools Cable Tools									
11,410						→											
24. Producing Interval(s), of this completion - Top, Bottom, Name								25. Was Directional Survey Made									
Pennsylvania (Strawn) 11,296 to 11,330																	
26. Type Electric and Other Logs Run								27. Was Well Cored									
28. CASING RECORD (Report all strings set in well)																	
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED							
13-3/8"		40#		331'		17 1/2"		350 sx Halliburton Natural		-0-							
8-5/8"		24# & 32#		5044'		11"		2700 sx Haliburton 9.0#/gal		-0-							
5-1/2"		17#		6564'		7 7/8"		400 sx Haliburton 9.2#/gal		-0-							
				11,410				70c 9502									
29. LINER RECORD						30. TUBING RECORD											
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		SIZE		DEPTH SET		PACKER SET			
31. Perforation Record (Interval, size and number)						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.											
11,296 to 11,330						DEPTH INTERVAL						AMOUNT AND KIND MATERIAL USED					
33. PRODUCTION																	
Date First Production				Production Method (Flowing, gas lift, pumping - Size and type pump)						Well Status (Prod. or Shut-in)							
Date of Test		Hours Tested		Choke Size		Prod'n. For Test Period		Oil - Bbl.		Gas - MCF		Water - Bbl.		Gas - Oil Ratio			
						→											
Flow Tubing Press.		Casing Pressure		Calculated 24-Hour Rate		→		Oil - Bbl.		Gas - MCF		Water - Bbl.		Oil Gravity - API (Corr.)			
34. Disposition of Gas (Sold, used for fuel, vented, etc.)												Test Witnessed By					
35. List of Attachments																	
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.																	
SIGNED _____				TITLE _____				DATE _____									

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of a newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 4, from.....to.....
No. 2, from.....to..... No. 5, from.....to.....
No. 3, from.....to..... 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 to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
OG-4765	

1a. TYPE OF WELL		OIL WELL <input checked="" type="checkbox"/>		GAS WELL <input type="checkbox"/>		DRY <input type="checkbox"/>		OTHER <input type="checkbox"/>	
b. TYPE OF COMPLETION		NEW WELL <input type="checkbox"/>		WORK OVER <input type="checkbox"/>		DEEPEN <input type="checkbox"/>		PLUG BACK <input type="checkbox"/>	
								DIFF. RESVR. <input type="checkbox"/>	
								OTHER <input type="checkbox"/>	

2. Name of Operator		Blanks Energy Corporation	
3. Address of Operator		600 Blanks Building, Midland, Texas 79701	
4. Location of Well			

UNIT LETTER <u>B</u>		LOCATED <u>660</u>		FEET FROM THE <u>North</u> LINE AND <u>1980</u>		FEET FROM	
THE <u>East</u> LINE OF SEC. <u>18</u>		TWP. <u>16-S</u>		RGE. <u>37-E</u>		NMPM	
15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.)	
06-18-80		07-28-80		08-13-80		3894.1 KB; 3879.1 GL	
19. Elev. Casinghead		20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many	
3879.1' GL		11,530'					
23. Intervals Drilled By		Rotary Tools		Cable Tools			
		Surf-TD					
24. Producing Interval(s), of this completion - Top, Bottom, Name		11,407-58' Penn Lime		25. Was Directional Survey Made		Yes	
26. Type Electric and Other Logs Run		GR-Forxo-Guard, GR-SND		27. Was Well Cored		No	

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5	392'	17 1/2"	400 sx	NA
8 5/8"	24, 28, 32	4282'	11"	1400 sx	NA
4 1/2"	11.6	11530'	7 7/8"	1225 sx	NA

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8"	11,300'	11,300'

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
11,407, 11,13,16,18,20,22,25,27,29,32, 36, 37, 44, 46, 48, 52, 54, 56, 58. (20-0.48" Holes)		DEPTH INTERVAL	
		11,407-58'	
		AMOUNT AND KIND MATERIAL USED	
		2100 Gal MOD 202	

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
08-13-80		Flowing				Prod.	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
08-21-80	24 hrs.	24/64"	1008	1608	-0-	1595:1	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
700#	Pkr	1008	1608	-0-			

34. Disposition of Gas (Sold, used for fuel, vented, etc.)		Test Witnessed By	
Vented		Jim Stewart	

35. List of Attachments	
Test Summary-DST	

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.							
---	--	--	--	--	--	--	--

SIGNED		TITLE		DATE	
--------	--	-------	--	------	--

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of a newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. ' B' _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. ' C' _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. ' D' _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ 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 to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
OG-4765	

1a. TYPE OF WELL										7. Unit Agreement Name									
b. TYPE OF COMPLETION										8. Farm or Lease Name									
NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESV. <input type="checkbox"/> OTHER										Pennzoil									
2. Name of Operator										9. Well No.									
W.C. Blanks										1									
3. Address of Operator										10. Field and Pool, or Wildcat									
600 Blanks Building, Midland, Texas 79701										NE Lovington Penn									
4. Location of Well										12. County									
UNIT LETTER <u>G</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM										Lea									
THE <u>East</u> LINE OF SEC. <u>18</u> TWP. <u>16-S</u> RGE. <u>37-E</u> NMPM																			
15. Date Spudded			16. Date T.D. Reached			17. Date Compl. (Ready to Prod.)			18. Elevations (DF, RKB, RT, GR, etc.)			19. Elev. Casinghead							
10/27/79						12/21/79			3851 GL			3851 GL							
20. Total Depth			21. Plug Back T.D.			22. If Multiple Compl., How Many			23. Intervals Drilled By			23. Intervals Drilled By							
11,530			11,525						Rotary Tools			Cable Tools							
24. Producing Interval(s), of this completion - Top, Bottom, Name										25. Was Directional Survey Made									
11,372 - 11,453 Strawn										Yes									
26. Type Electric and Other Logs Run										27. Was Well Cored									
FORXO Guard & Sidewall Neutron Gamma Caliper										No									
28. CASING RECORD (Report all strings set in well)																			
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED									
13- 3/8				386		17 1/2		400 sx, cir. to surf.		-0-									
8- 5/8				4,305		11		1400 sx, circ. 150 sx to pits		-0-									
4 1/2				11,525		7 7/8		1600 sx, top @ 7500		-0-									
29. LINER RECORD										30. TUBING RECORD									
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		SIZE		DEPTH SET		PACKER SET					
n/a										2-7/8		11,429		n/a					
31. Perforation Record (Interval, size and number)										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.									
11,372 - 11,453										DEPTH INTERVAL									
.48										11,372-11,407									
21										11,443-11,453									
										500 gal. MCA									
										2000 gal. 15% spearhead HCl									
33. PRODUCTION																			
Date First Production			Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in)											
12/21/79			Flowing					Producing											
Date of Test		Hours Tested		Choke Size		Prod'n. For Test Period		Oil - Bbl.		Gas - MCF		Water - Bbl.		Gas - Oil Ratio					
1/31/80		24		26/64		→		449		665		-0-		1482					
Flow Tubing Press.		Casing Pressure		Calculated 24-Hour Rate		Oil - Bbl.		Gas - MCF		Water - Bbl.		Oil Gravity - API (Corr.)							
380		900		→		449		665		-0-		42.7							
34. Disposition of Gas (Sold, used for fuel, vented, etc.)										Test Witnessed By									
Vented										Terry Whitely									
35. List of Attachments																			
Electrical Logs & Test Summary																			
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.																			
SIGNED										TITLE Agent									
										DATE 02-01-80									

INSTRUCTIONS

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INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

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T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinobry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

No. 5, from.....to.....

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 to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

Affidavit of Publication

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

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

That the notice which is hereto attached, entitled

Legal Notice

and numbered in the

Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the

same day of the week, for Three Times

consecutive weeks, beginning with the issue of

April 9, 1984

and ending with the issue of

April 23, 1984

And that the cost of publishing said notice is the

sum of \$21.35

which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 27th

day of April, 1984

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

My Commission Expires Sept 28, 1986

LEGAL NOTICE NOTICE OF APPLICATION FOR FLUID

INJECTION WELL PERMIT

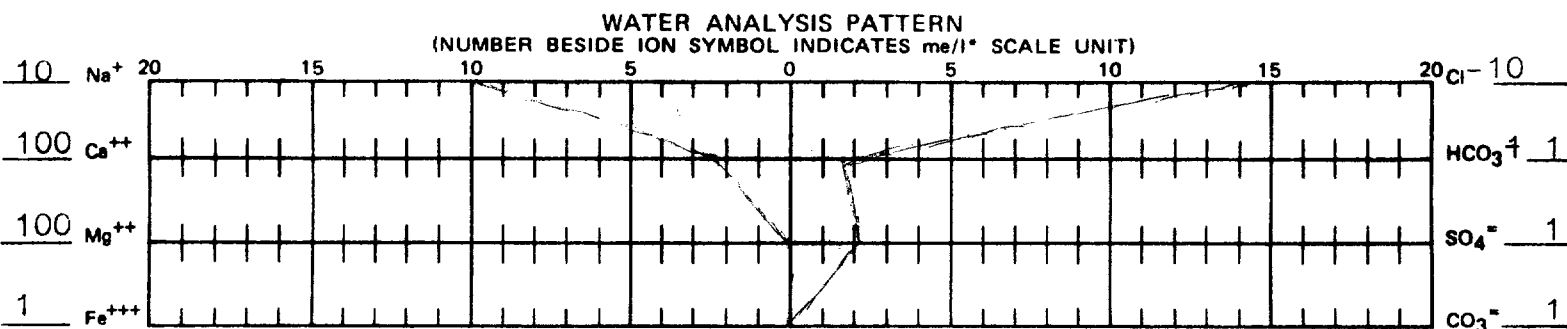
Double "C" Enterprises, P.O. Box 147, Lovington, New Mexico 88260, (505) 396-5605 Roland Caudill (Partner) has applied to the Oil Conservation Division for a permit to convert the Aztec State Well No. 1 into a salt water disposal well. The well is located 1980' FSL, 1980' FEL, Sec. 18, T16S, R37E, Lea County, New Mexico (3 miles SE Lovington). Aztec State No. 1 is located in the east Lovington field with a proposed injection formation, depth, rates and pressures as follows: Wolf-camp formation, 10,738'-10,794', 1500 BW/day, and 1000 psi. Interested parties must file objection or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days.

Published in the Lovington Daily Leader April 9, 16, and 23, 1984.



WATER ANALYSIS REPORT

COMPANY Double "C" Enterprises					ANALYSIS NUMBER 0313	
COMPANY ADDRESS					DATE 5/13/84	
FIELD			COUNTY OR PARISH		STATE	
LEASE OR UNIT SHELBY GILMORE IRRIGATION		WELL(S) NAME OR NO.		WATER SOURCE (FORMATION)		
DEPTH, FT.	BHT, °F	SAMPLE SOURCE	TEMP, °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY
DATE SAMPLED		TYPE OF WATER <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL				



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	244	
Calcium, Ca ⁺⁺	236	4720
Magnesium, Mg ⁺⁺	8	97.6
Iron (Total) Fe ⁺⁺⁺	-0-	-0-
Barium, Ba ⁺⁺	---	---
Sodium, Na ⁺ (calc.)	99.52	2288.96

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	-0- mg/l*
Carbon Dioxide, CO ₂	3.96 mg/l*
Oxygen, O ₂	--- mg/l*

PHYSICAL PROPERTIES

pH	6.20
Specific Gravity	1.005
Total Dissolved Solids (calc.)	12310.26 mg/l*
Stability Index @ 30 °C	-0.29
CaSO ₄ Solubility @ °C	12.65 me/l*
Max. CaSO ₄ Possible (calc.)	2.08 me/l*
Max. CaSO ₄ Possible (calc.)	---

ANIONS

Chloride, Cl ⁻	140.85	5000
Sulfate, SO ₄ ⁼	2.08	100
Carbonate, CO ₃ ⁼	-0-	-0-
Bicarbonate, HCO ₃ ⁼	1.70	103.7
Hydroxyl, OH ⁼	-0-	-0-
Sulfide, S ⁼	---	---

Residual Hydrocarbons _____ ppm(Vol/Vol)

TOTAL SOLIDS (QUANTITATIVE) 12310.26

REMARKS AND RECOMMENDATIONS:

@30 °C slight corrosive tendency is indicated
 @30 °C calcium sulfate scaling is unlikely

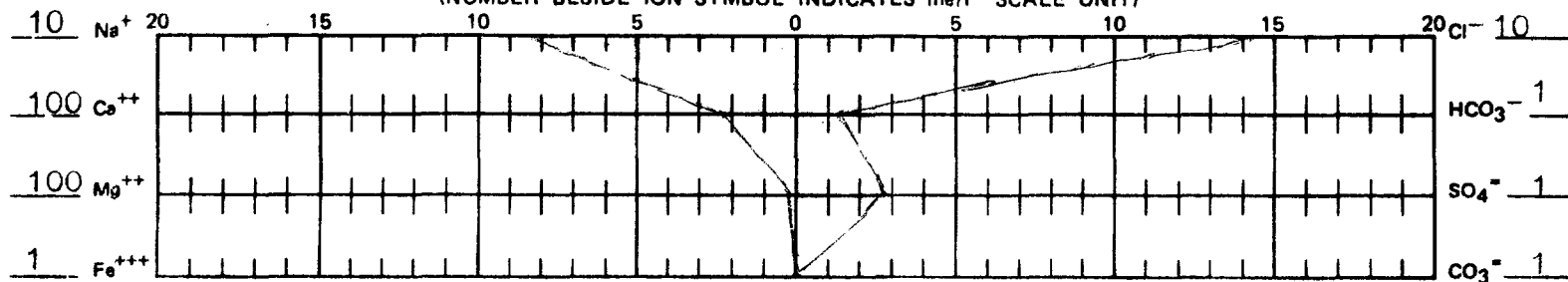
*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BAKER OIL TREATING REPRESENTATIVE Joe Lewis		ADDRESS		TELEPHONE	RES:
ANALYZED BY:		DATE	DISTRIBUTION		OFF:



WATER ANALYSIS REPORT

COMPANY Double "C" Enterprises				ANALYSIS NUMBER 0314	
COMPANY ADDRESS				DATE 5/13/84	
FIELD		COUNTY OR PARISH		STATE	
LEASE OR UNIT Fresh Water Well E. G. Caudill, Sr. Stockwater Tank		WELL(S) NAME OR NO.		WATER SOURCE (FORMATION)	
DEPTH, FT.	BHT. OF	SAMPLE SOURCE	TEMP. °F	WATER, BBL/DAY	OIL, BBL/DAY
DATE SAMPLED		TYPE OF WATER <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL			

WATER ANALYSIS PATTERN
(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)

DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	228	
Calcium, Ca ⁺⁺	214	4280
Magnesium, Mg ⁺⁺	14	170.8
Iron (Total) Fe ⁺⁺⁺	-0-	-0-
Barium, Ba ⁺⁺	---	---
Sodium, Na ⁺ (calc.)	83.14	1912.22

ANIONS	me/l*	mg/l*
Chloride, Cl ⁻	140.85	5000
Sulfate, SO ₄ ⁼	2.71	130
Carbonate, CO ₃ ⁼	-0-	-0-
Bicarbonate, HCO ₃ ⁻	1.30	79.3
Hydroxyl, OH ⁻	-0-	-0-
Sulfide, S ⁼	---	---

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	-0- mg/l*
Carbon Dioxide, CO ₂	7.92 mg/l*
Oxygen, O ₂	-- mg/l*

PHYSICAL PROPERTIES

pH	6.20
Specific Gravity	1.005
Total Dissolved Solids (calc.)	11572.22 mg/l*
Stability Index @ 30 °C	-0.46
CaSO ₄ Solubility @ 30 °C	13.86 me/l*
Max. CaSO ₄ Possible (calc.)	2.71 me/l*
Max. CaSO ₄ Possible (calc.)	me/l*

Residual Hydrocarbons _____ ppm(Vol/Vol)

TOTAL SOLIDS (QUANTITATIVE) 11572.22

REMARKS AND RECOMMENDATIONS:

- @30 C slight corrosive tendency is indicated
@30 C calcium sulfate scaling is unlikely

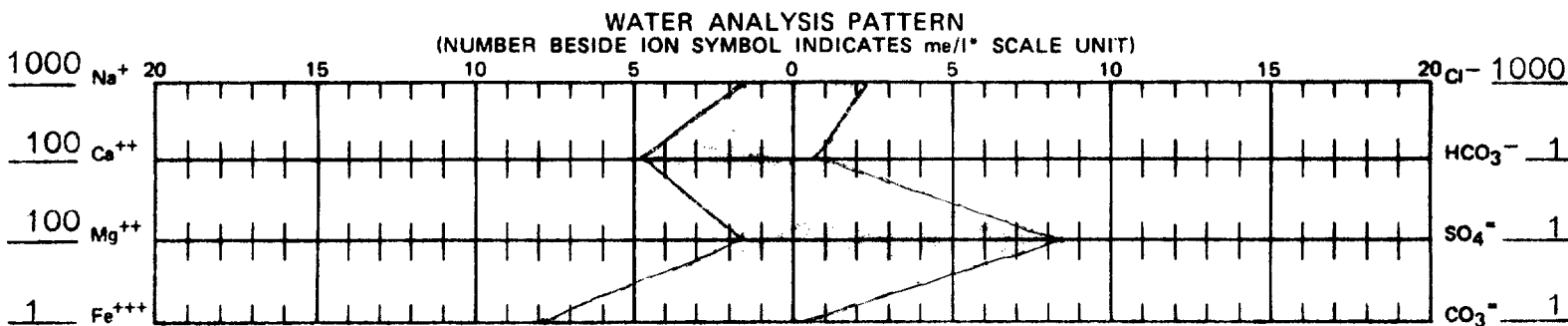
*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BAKER OIL TREATING REPRESENTATIVE Joe Lewis	ADDRESS	TELEPHONE	RES:
ANALYZED BY	DATE	OFF:	



WATER ANALYSIS REPORT

COMPANY Double "C" Enterprises					ANALYSIS NUMBER 0315	
COMPANY ADDRESS					DATE 5/13/84	
FIELD			COUNTY OR PARISH		STATE	
LEASE OR UNIT Skelton Oil Production Water		WELL(S) NAME OR NO. Montieth 1		WATER SOURCE (FORMATION)		
DEPTH, FT.	BHT, °F	SAMPLE SOURCE	TEMP, °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY
DATE SAMPLED		TYPE OF WATER <input type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL				



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	656	
Calcium, Ca ⁺⁺	492	9840
Magnesium, Mg ⁺⁺	164	2000.8
Iron (Total) Fe ⁺⁺⁺	7.99	148.56
Barium, Ba ⁺⁺	---	---
Sodium, Na ⁺ (calc.)	1457.62	33525.26

ANIONS	me/l*	mg/l*
Chloride, Cl ⁻	2112.68	75000
Sulfate, SO ₄ ⁼	8.33	400
Carbonate, CO ₃ ⁼	-0-	-0-
Bicarbonate, HCO ₃ ⁼	0.60	36.6
Hydroxyl, OH ⁼	-0-	-0-
Sulfide, S ⁼	---	---

TOTAL SOLIDS (QUANTITATIVE) 120951.22

REMARKS AND RECOMMENDATIONS:

@30 C severe corrosive tendency is indicated
 @30 C calcium sulfate scaling is unlikely

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	-0- mg/l*
Carbon Dioxide, CO ₂	67.32 mg/l*
Oxygen, O ₂	--- mg/l*

PHYSICAL PROPERTIES

pH	5.25
Specific Gravity	1.075
Total Dissolved Solids (calc.)	120802.66 mg/l*
Stability Index @ 30 °C	-1.74
CaSO ₄ Solubility @ 30 °C	23.50 me/l*
Max. CaSO ₄ Possible (calc.)	8.33 me/l*
Max. CaSO ₄ Possible (calc.)	me/l*

Residual Hydrocarbons _____ ppm(Vol/Vol)

*NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BAKER OIL TREATING REPRESENTATIVE Joe Lewis		ADDRESS		TELEPHONE	RES.
ANALYZED BY:		DATE	DISTRIBUTION		OFF.

Double "C" Enterprises
P.O. Box 147
Lovington, N.M. 88260

We have examined all available geologic data and all available engineering data and find no evidence of open faults or any other hydrolic connection between the disposal zone and any underground source of drinking water.

Roland E. Caudill

Partner, May 31, 1984

RANGE 37 E



R37E

PS Form 3811, July 1982

SENDER: Complete Items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
2. ☐ RESTRICTED DELIVERY
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
Texas Crude
P.O. Box 2759
Midland, TX. 79702

4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☐ CERTIFIED ☐ COD ☐ EXPRESS MAIL
ARTICLE NUMBER P44210453

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

DATE OF DELIVERY

5. ADDRESSEE'S ADDRESS (Only if requested)

6. UNABLE TO DELIVER BECAUSE

7. EMPLOYEE'S INITIALS

POSTMARK JUN 6 1984

RETURN RECEIPT

U.S. GPO: 1982-574-501

PS Form 3811, July 1982

SENDER: Complete Items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
2. ☐ RESTRICTED DELIVERY
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
L. G. CANDILL Sr.
Rt. 1, Box 90
Lorington, N. Mex. 88160

4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☐ CERTIFIED ☐ COD ☐ EXPRESS MAIL
ARTICLE NUMBER P44210452

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

DATE OF DELIVERY 6-2-84

5. ADDRESSEE'S ADDRESS (Only if requested)

6. UNABLE TO DELIVER BECAUSE

7. EMPLOYEE'S INITIALS

POSTMARK JUN 2 1984

RETURN RECEIPT

U.S. GPO: 1982-574-501

PS Form 3811, July 1982

SENDER: Complete Items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
2. ☐ RESTRICTED DELIVERY
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
Blanks Energy
800 Blanks Bldg
Midland, TX. 79701

4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COD ☐ EXPRESS MAIL
ARTICLE NUMBER P44210454

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

DATE OF DELIVERY

5. ADDRESSEE'S ADDRESS (Only if requested)

6. UNABLE TO DELIVER BECAUSE

7. EMPLOYEE'S INITIALS

POSTMARK JUN 4 1984

RETURN RECEIPT

U.S. GPO: 1982-574-501

PS Form 3811, July 1982

SENDER: Complete Items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
2. ☐ RESTRICTED DELIVERY
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
Getty Oil Company
P.O. Drawer 00
Levelland, TX. 79336

4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COD ☐ EXPRESS MAIL
ARTICLE NUMBER P44210452

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

DATE OF DELIVERY JUN 4 1984

5. ADDRESSEE'S ADDRESS (Only if requested)

6. UNABLE TO DELIVER BECAUSE

7. EMPLOYEE'S INITIALS

POSTMARK JUN 4 1984

RETURN RECEIPT

U.S. GPO: 1982-574-501

SENDER: Complete Items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
2. ☐ RESTRICTED DELIVERY
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
Penzance Company
P.O. Box 1820
Midland, TX. 79701

4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COD ☐ EXPRESS MAIL
ARTICLE NUMBER P44210451

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

DATE OF DELIVERY

5. ADDRESSEE'S ADDRESS (Only if requested)

6. UNABLE TO DELIVER BECAUSE

7. EMPLOYEE'S INITIALS

POSTMARK JUN 4 1984

RETURN RECEIPT

U.S. GPO: 1982-574-501