FLUID WASTE, INC.
1202 Bryan Circle
Carlsbad, New Mexico 88220
505:885-1007

885-0869

October 16, 1984

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

Attention: Gilbert Quintana

Re: Dorstate #1 SWD
Administrative Order SWD-247

Dear Mr. Quintana:

Per our telephone conversation today, attached please find Section III Attachment - Amended, for the above referenced disposal.

Pogo Producing Company has agreed to withdraw their protest to our recompletion in the Bone Spring formation if we will squeeze off the perforations from 6241' to 6310'.

Please process our application administratively. If additional information is needed to insure timely approval, please advise.

Sincerely,

FLUID WASTE, INC.

Rebecca A. Hughes

Rebecca A. Hughes
Secretary/Treasurer

/rah
xc: OCD - Artesia

Pogo Producing Company
P. O. Box 10340
Midland, Texas 79702
Attention: Monty D. McLane

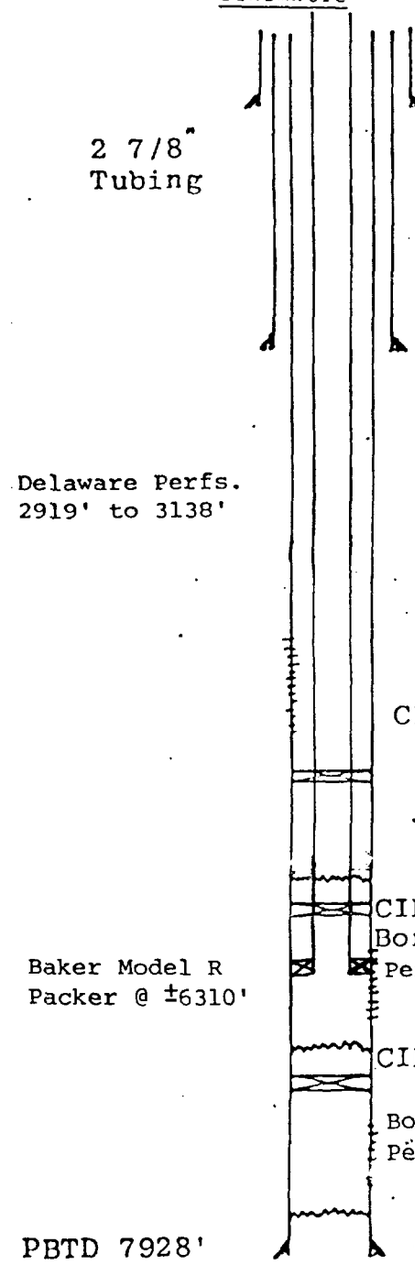
CERTIFIED MAIL - RETURN RECEIPT REQUESTED

INJECTION WELL DATA SHEET - AMENDED

FLUID WASTE, INC. (OPERATOR) DORSTATE #1 SWD (LEASE)

1	1980' FNL & 660' FEL	27	25S	28E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Spudded 3/30/81

Tabular Data

Surface Casing

Size 13-3/8" 48# Cemented with 550 sx.

TOC Surface feet determined by circulation

Hole size 17-1/2"

Intermediate Casing

Size 8-5/8" 24# Cemented with 1700 sx.

TOC Surface feet determined by circulation

Hole size 12-1/4"

Long string

Size 4-1/2" 11.6# Cemented with 1050 sx.

TOC 2316' feet determined by CBL

Hole size 7-7/8"

Total depth 8000'

Injection interval 6412 to 7890

6376 feet to 6825 feet perforated
(perforated or open-hole, indicate which) with 36 holes

PROPOSED RECOMPLETION TO BONE SPRING DISPOSAL WELL

1. Squeeze Delaware perforations from 2919' to 3138'.
2. Drill out CIBP at 3350'.
3. Drill out cement and CIBP at 6200'.
4. Squeeze Bone Spring perforations from 6241' to 6310'.
5. Drill out cement and CIBP at 6400'.
6. Set CIBP at 6825' and cap with 35' cement.
7. Set Baker Model R packer at ±6310'.
8. Resume Injection.

Proposed tubing size 2-7/8" lined with PVC (material) set in a Baker Model R (brand and model) packer at ±6310 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Bone Springs
2. Name of Field or Pool (if applicable) N/A
3. Is this a new well drilled for injection? [ ] Yes [X] No

   If no, for what purpose was the well originally drilled? Bone Spring 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) Non-commercial Bone Spring 7204-7890', 6842-7165', 6412-6770', 6241-6382'. CIBP @ 6400' w/35' cement on top. CIBP @ 6200' w/35' cement on top. CIBP @ 3350'. Open Delaware perforations: 2919-3138' - 47 holes
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None within well's area of review.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

Amendment to Administrative Order SWD-247

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

II. Operator: Fluid Waste, Inc.

Address: 1202 Bryan Circle, Carlsbad, New Mexico 88220

Contact party: Carter or Rebecca Hughes Phone: 505:885-1007

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 SWD-247.

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: Rebecca A. Hughes Title Secretary/Treasurer

Signature: Rebecca A. Hughes Date: 9/10/84

* 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. Well logs submitted by original operator along with C-105 completion form around July, 1981.

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.

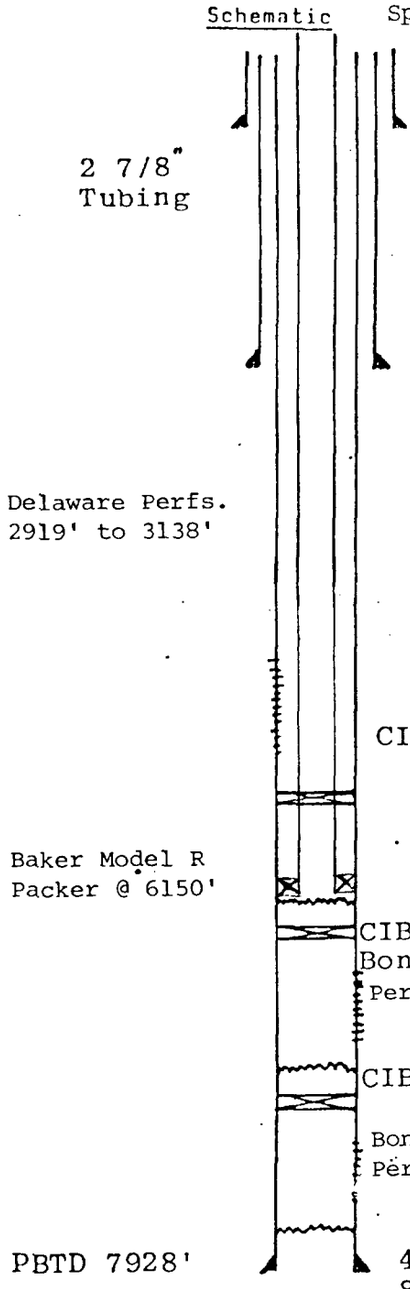
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

SECTION III ATTACHMENT
INJECTION WELL DATA SHEET

OPERATOR	LEASE			
FLUID WASTE, INC.	DORSTATE #1 SWD			
1	1980' FNL & 660' FEL	27	25S	28E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 13-3/8" 48# Cemented with 550 sx.

TOC Surface feet determined by circulation

Hole size 17-1/2"

Intermediate Casing

Size 8-5/8" 24# Cemented with 1700 sx.

TOC Surface feet determined by circulation

Hole size 12-1/4"

Long string

Size 4-1/2" 11.6# Cemented with 1050 sx.

TOC 2316' feet determined by CBL

Hole size 7-7/8"

Total depth 8000'

Injection interval

6150 feet to 6825 feet perforated
(perforated or open-hole, indicate which)
with 56 holes

PROPOSED RECOMPLETION TO BONE SPRING DISPOSAL WELL

1. Squeeze Delaware perforations from 2919' to 3138'.
2. Drill out CIBP at 3350'.
3. Drill out cement and CIBP at 6200'.
4. Drill out cement and CIBP at 6400'.
5. Set CIBP at 6825' and cap with 35' cement.
6. Set Baker Model R packer at 6150'.
7. Resume injection.

Proposed tubing size 2-7/8" lined with PVC (material) set in a Baker Model R (brand and model) packer at 6150 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Bone Springs
2. Name of Field or Pool (if applicable) N/A
3. Is this a new well drilled for injection? / / Yes /X/ No

   If no, for what purpose was the well originally drilled? Bone Spring 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) Non-commercial Bone Spring 7204-7890', 6842-7165', 6412-6770', 6241-6382'. CIBP @ 6400' w/35' cement on top. CIBP @ 6200' w/35' cement on top. CIBP @ 3350'. Open Delaware perforations: 2919-3138' - 47 holes
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None within well's area of review.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-104
Revised 10-1-78

NO. OF COPIES RECEIVED		
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SANTA FE		
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LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR	✓	
PRORATION OFFICE		

OIL CONSERVATION DIVISION

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

RECEIVED
DEC 29 1982
O. C. D.
ARTESIA, OFFICE

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator
Fluid Waste, Inc.

Address
1303 N. Canal, #28, Carlsbad, New Mexico 88220

Reason(s) for filing (Check proper box)

New Well	☐	Change in Transporter of:			
Recompletion	☐	Oil	☐	Dry Gas	☐
Change in Ownership	☒ effective 1-1-83	Casinghead Gas	☐	Condensate	☐

Other (Please explain)

If change of ownership give name and address of previous owner Maddox Energy Corporation, P. O. Box 217, Loving, New Mexico 88256

I. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease State, Federal or Fee	Lease No.
Dorstate SWD-247	1	Wildcat Delaware	State	L-5369

Location
Unit Letter H : 1980 Feet From The North Line and 660 Feet From The East

Line of Section 27 Township 25-S Range 28-E , NMPM, Eddy County

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	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:

III. COMPLETION DATA

Designate Type of Completion – (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

IV. 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)

OIL WELL

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

V. 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 above is true and complete to the best of my knowledge and belief.

Carter Hughes
(Signature)
President
(Title)
12-27-82
(Date)

OIL CONSERVATION DIVISION
APPROVED JAN 13 1983, 19
BY Original Signed By
Leslie A. Clements
TITLE ~~Supervisor District II~~

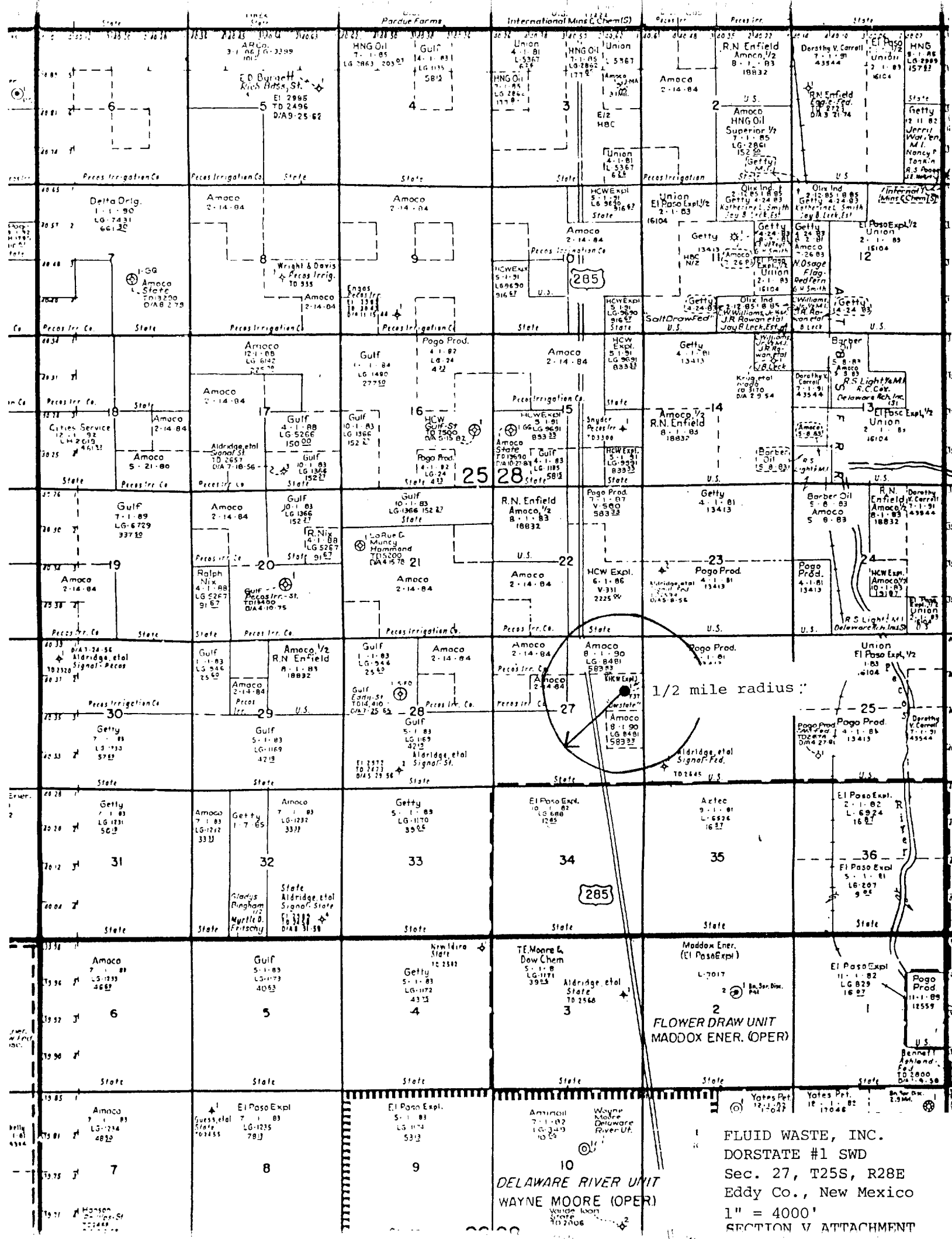
This form is to be filed in compliance with RULE 1104.

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.


1/2 mile radius
FLOWER DRAW UNIT
MADDOX ENER. (OPER)
DELAWARE RIVER UNIT
WAYNE MOORE (OPER.)
FLUID WASTE, INC.
DORSTATE #1 SWD
Sec. 27, T25S, R28E
Eddy Co., New Mexico
1" = 4000'
SECTION V ATTACHMENT

SECTION VI ATTACHMENT

No wells except the Dorstate No. 1 have penetrated the proposed injection formation within the one-half (1/2) mile radius area of review.

SECTION VII ATTACHMENT

DATA FOR PROPOSED INJECTION OPERATION

1. The expected average daily salt water injection rate is 2000 barrels per day with a peak rate of 3000 barrels per day. Total injection volume is unknown, but would be expected to be in excess of five million (5,000,000) barrels.
2. The system will be a closed system.
3. The average injection pressure is expected to be 1025 psi with a maximum of 1354 psi.
4. Injection water will be salt water produced from oil and gas wells within a twenty-five (25) mile radius. The water will be predominately from the Bone Spring formation.
5. The proposed Bone Bpring injection zone is not productive of oil or gas within a one mile radius of the proposed injection well. A chemical analysis of the Bone Spring formation water from a well two miles south of the Dorstate #1 is attached.

SECTION VIII ATTACHMENT

The proposed injection zone in the Dorstate No. 1 well is the Bone Spring formation. It consists of limestone, siltstone and carbonaceous shale. It is 1690' thick in this well and is encountered at a depth of 6310'.

A potential source of potable water (10,000 mg/l of TDS) are the Lower Cretaceous and Upper Triassic redbeds. These exist from near the surface to a depth of about 300'.

SECTION IX ATTACHMENT

No stimulation program is expected to be required.

SECTION X ATTACHMENT

The well logs were submitted about July, 1981, by the original operator, HCW Exploration, along with the C-105 completion form for the Bone Spring oil reservoir. Upon depletion of the Bone Spring reservoir, it was abandoned.

SECTION XI ATTACHMENT

There are no known producing fresh water wells within one mile of the proposed injection well.

SECTION XII ATTACHMENT

Fluid Waste, Inc. acknowledges that it has thoroughly reviewed the available geologic and engineering data in the vicinity of the subject well and does hereby affirm that there is no evidence to indicate the existence of open faults or possible hydrologic connection between the Bone Spring disposal zone and any potential underground source of drinking water.

TRETOLITE DIVISION
369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

WATER ANALYSIS REPORT

COMPANY MADDOX ENERGY CORP. ADDRESS ARTESIA, NM DATE: 11/10/83

SOURCE FLOWER DRAW 2-26S-27E DATE SAMPLED 11/10/83 ANALYSIS NO.

Analysis		Mg/L		*Meq/L	
1. pH	5.80				
2. H_2S (Qualitative)	neg.				
3. Specific Gravity	1.180				
4. Dissolved Solids		239,403			
5. Suspended Solids					
6. Phenolphthalein Alkalinity ($CaCO_3$)					
7. Methyl Orange Alkalinity ($CaCO_3$)		75			
8. Bicarbonate (HCO_3)	HCO_3	92	÷61	2	HCO_3
9. Chlorides (Cl)	Cl	147,312	÷35.5	4150	Cl
10. Sulfates (SO_4)	SO_4	200	÷48	4	SO_4
11. Calcium (Ca)	Ca	11,600	÷20	580	Ca
12. Magnesium (Mg)	Mg	2187	÷12.2	179	Mg
13. Total Hardness ($CaCO_3$)		38,000			
14. Total Iron (Fe)					
15. Barium (Qualitative)					
16. Strontium					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

580	Ca ⟵	HCO_3 2
179	Mg ⟶	SO_4 4
3397	Na ⟵ ⟶	Cl 4150

Saturation Values Distilled Water 20°C

$CaCO_3$	13 Mg/L
$CaSO_4 \cdot 2H_2O$	2,090 Mg/L
$MgCO_3$	103 Mg/L

Compound	Equiv. Wt.	X Meq/L	= Mg/L
$Ca(HCO_3)_2$	81.04	2	162
$CaSO_4$	68.07	4	272
$CaCl_2$	55.50	574	31857
$Mg(HCO_3)_2$	73.17	-0-	-0-
$MgSO_4$	60.19	-0-	-0-
$MgCl_2$	47.62	179	8524
$NaHCO_3$	84.00	-0-	-0-
Na_2SO_4	71.03	-0-	-0-
NaCl	58.46	3397	198,588

REMARKS cc: Mr. C. Hughes
G. Knorr, E. Speck

Respectfully submitted
TRETOLITE COMPANY
Steve Hollinger

FLUID WASTE, INC.
1202 Bryan Circle
Carlsbad, New Mexico 88220
505:885-1007

September 7, 1984

State of New Mexico
Commissioner of Public Lands
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Dear Commissioner:

Fluid Waste, Inc. wishes to advise you of our intention to recomplete the Dorstate #1 SWD well to inject into the Bone Spring formation. Said well is located on state land in Section 27, T-25-S, R-28-E, Eddy County, New Mexico.

As required by OCD Rule 701, we are enclosing, for your information, a copy of our application recently submitted to the OCD.

Please contact Fluid Waste, Inc. should you require additional information.

Sincerely,

FLUID WASTE, INC.

Rebecca A. Hughes

Rebecca A. Hughes
Secretary/Treasurer

/rah
Enclosure

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

FLUID WASTE, INC.
1202 Bryan Circle
Carlsbad, New Mexico 88220
505:885-1007

September 7, 1984

Amoco Production Company
P. O. Box 3092
Houston, Texas 77001

Re: Dorstate #1 SWD
1980' FNL & 660' FEL
Sec. 27, T-25-S, R-28E
Eddy County, New Mexico

Attention: Land Manager

Dear Sir:

Fluid Waste, Inc. wishes to advise you of our intention to recomplete the above referenced disposal well to inject into the Bone Spring formation. As required by OCD Rule 701, we are enclosing, for your information, a copy of our application recently submitted to the OCD.

Please contact Fluid Waste, Inc. should you require additional information.

Sincerely,

FLUID WASTE, INC.

Rebecca A. Hughes

Rebecca A. Hughes
Secretary/Treasurer

/rah
Enclosure

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

FLUID WASTE, INC.
1202 Bryan Circle
Carlsbad, New Mexico 88220
505:885-1007

September 7, 1984

HCW Exploration, Inc.
601 N. Loraine, Suite 200
Midland, Texas 79702

Attention: Land Manager

Re: Dorstate #1 SWD
1980' FNL & 660' FEL
Sec. 27, T-25-S, R-28-E
Eddy County, New Mexico

Dear Sir:

Fluid Waste, Inc. wishes to advise you of our intention to recomplete the above referenced disposal well to inject into the Bone Spring formation. As required by OCD Rule 701, we are enclosing, for your information, a copy of our application recently submitted to the OCD.

Please contact Fluid Waste, Inc. should you require additional information.

Sincerely,

FLUID WASTE, INC.

Rebecca A. Hughes

Rebecca A. Hughes
Secretary/Treasurer

/rah
Enclosure

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

FLUID WASTE, INC.
1202 Bryan Circle
Carlsbad, New Mexico 88220
505:885-1007

September 7, 1984

Pogo Producing Co.
P. O. Box 10340
Midland, Texas 79702

Attenton: Land Manager

Re: Dorstate #1 SWD
1980' FNL & 660' FEL
Sec. 27, T-25-S, R-28-E
Eddy County, New Mexico

Dear Sir:

Fluid Waste, Inc. wishes to advise you of our intention to recomplete the above referenced disposal well to inject into the Bone Spring formation. As required by OCD Rule 701, we are enclosing, for your information, a copy of our application recently submitted to the OCD.

Please contact Fluid Waste, Inc. should you require additional information.

Sincerely,

FLUID WASTE, INC.

Rebecca A. Hughes

Rebecca A. Hughes
Secretary/Treasurer

/rah
Enclosure

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

EDITOR - Carlsbad Current-Argus

September 7, 1984

FLUID WASTE, INC.
1202 Bryan Circle
Carlsbad, New Mexico 88220
505:885-1007

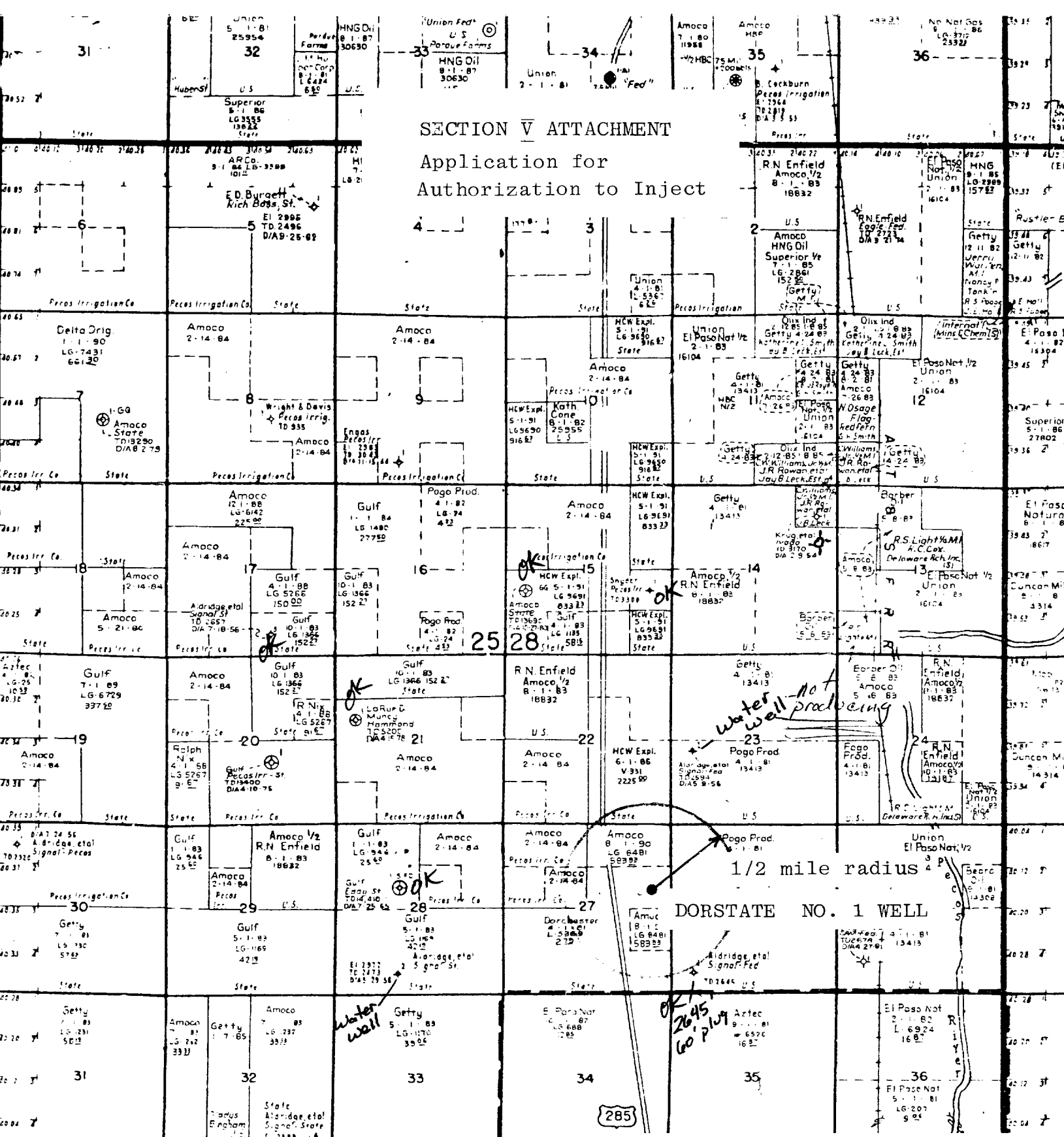
The above captioned party declares that it intends to recomplete its Dorstate No. 1 salt water disposal well. Said well is located 1980' FNL & 660' FEL of Section 27, T25S, R28E, Eddy County, New Mexico.

The salt water will be injected into the Bone Spring formation at a maximum rate of 3000 barrels per day having a maximum pressure of 1354 psig.

All interested parties must file any requests or objections for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within 15 days of publication of this notice.

Rebecca A. Hughes

Rebecca A. Hughes
Secretary/Treasurer



PROPOSED INJECTION WELL
MADDOX ENERGY CORPORATION
Dorstate No. 1, Sec.27,T25S,R28E
Eddy County, New Mexico
1" = 4000'

3012'-3138'

MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
H C W Exploration	Dorstate	1

Unit Letter	Section	Township	Range	County
H	27	25 South	28 East	Eddy

Actual Footage Location of Well: 1980 feet from the north line and 660 feet from the east line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
2968.0	Delaware	Wildcat	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

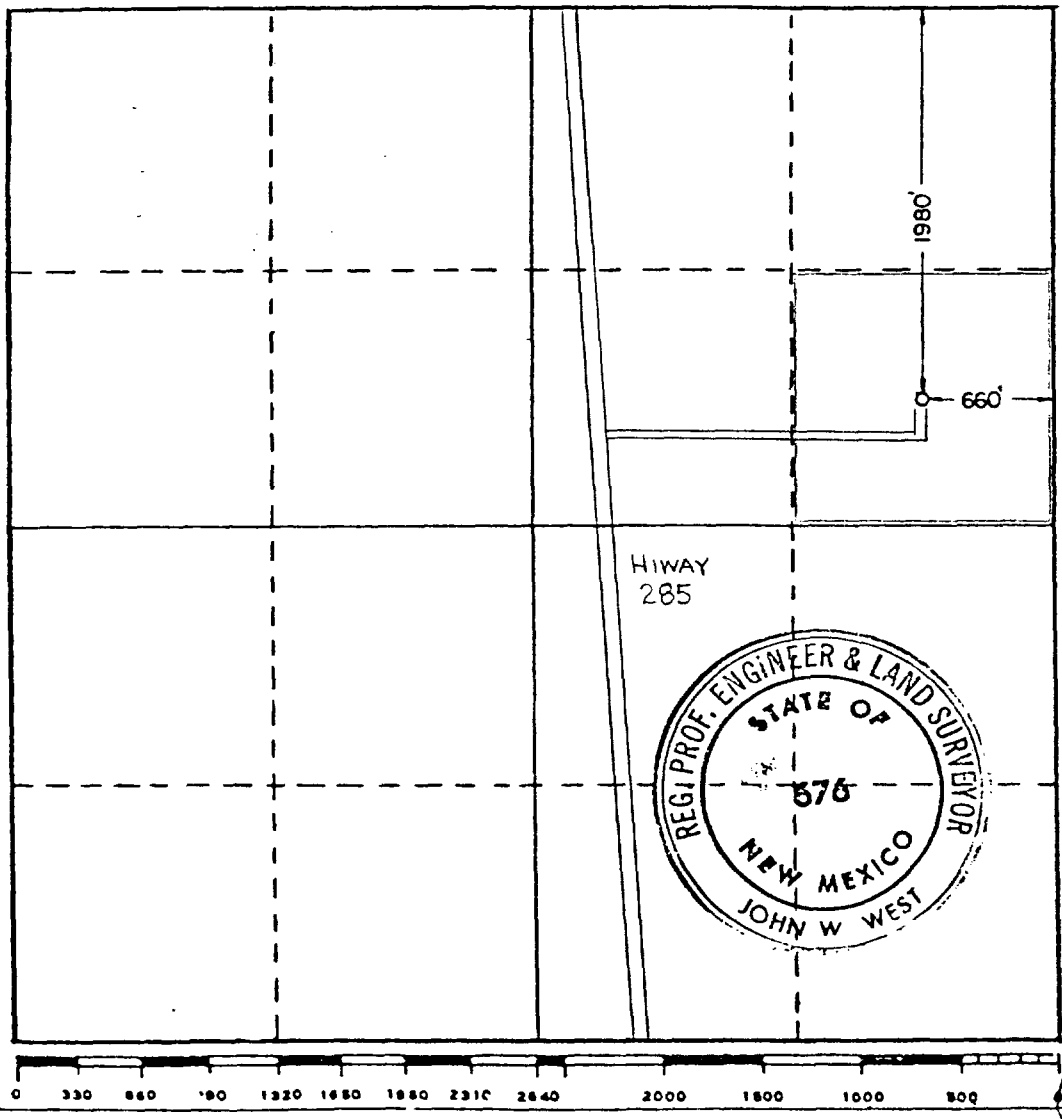
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Steve A Douglas

Name: Steve A. Douglas

Position: Division Engineer

Company: HCW Exploration, Inc.

Date: February 22, 1982

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: 3-24-81

Registered Professional Engineer and/or Land Surveyor

John W West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239

ATTACHMENTS FOR FORM C-108

SECTION VI ATTACHMENT

No wells except the proposed Dorstate No. 1 injection well have penetrated the proposed injection formation within the one-half (1/2) mile radius area of review.

SECTION VII ATTACHMENT

DATA FOR PROPOSED INJECTION OPERATION

1. The expected average daily salt water injection rate is 2000 barrels per day with a peak rate of 3000 barrels per day. Total injection volume is unknown, but would be expected to be in excess of five million (5,000,000) barrels.

2. The system will be a closed system.

3. The average injection pressure is expected to be 350 psi with a maximum of 625 psi. 602 PSI.

4. Injection water will be salt water produced from Maddox Energy Corporation and other area operators oil and gas wells within a twenty-five (25) mile radius. The water will be predominately from the Bone Springs formation.

5. The proposed Delaware injection zone is not productive of oil or gas within a one (1) mile radius of the proposed injection well. A chemical analysis of the Delaware formation water from the Dorstate well is attached.

SECTION VIII ATTACHMENT

The proposed injection zone in the Dorstate well is the Delaware formation. It consists of a massive sandstone sequence interbedded with dense shale stringers. It is about 700' thick in this well and is encountered at a depth of 2610' in the well. The mud loggers report relative to this interval is enclosed for reference.

A potential source of potable water (10000 mg/1 of TDS) are the Lower Cretaceous and Upper Triassic redbeds. These exist from near the surface to a depth of about 300'.

SECTION IX ATTACHMENT

If stimulation is required, the well will be acidized w/10,000 gallons of 15% HCI.

SECTION X ATTACHMENT

The well logs were submitted about July, 1981 by the previous operator, HCW Exploration, along with the C-105 completion form for the Bone Springs oil reservoir. Upon depletion of the Bone Springs reservoir it was Abandoned. Reports summarizing the unsuccessful recompletion of the well as a Delaware completion are enclosed for reference.

SECTION XI ATTACHMENT

There are no known producing fresh water wells within one (1) mile of the proposed injection well.

SECTION XII ATTACHMENT

Maddox Energy Corporation acknowledges that it has thoroughly reviewed the available geologic and engineering data in the vicinity of the subject well and does hereby affirm that there is no evidence to indicate the existance of open faults or possible hydrologic connection between the Delaware disposal zone and any potential underground source of drinking water.