

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

10/13/98

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

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



Gentlemen:

I have examined the application for the:

Wn Inc -P-24-195-37e Operator ease

and my recommendations are as follows:

Mommenil approval -

Yours very truly,

flliams

Chris Williams Supervisor, District 1

/ed

GOVERNOR

Hobbs OCD

STATE OF NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT 011 Conservation Div. 2040 Pacheco St. Santa Fe, NM 87505

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Rec Application qualifies for administration	overy /e approval?	Pressure M	aintenance No	Disposal	Storage
П.	OPERATOR: MESQUITE	SWO	Inc.			
	ADDRESS: P.O. Box	<u>481</u>	CARISDAD	NM	88221-0481	· · · · · · · · · · · · · · · · · · ·
	CONTACT PARTY: <u>CAY</u>	Nilson	/	· · · · · · · · · · · · · · · · · · ·	PHONE:	505- 885-3996

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

- IV. Is this an expansion of an existing project: Yes X 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/1 or less) overlying the proposed injection zone as well as any such sources 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:	MicHAel BIERGE	TITLE	Acent	
SIGNATURE:	MILLAN.	SX 392 1915	DATE: 10/4	2/60
	100900000000000000000000000000000000000		$-\frac{1}{\sqrt{6}}$	2/70

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal.

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, PO Box 2088, Santa Fe, NM 87504-2088 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.

FORM C-108 continued

Part III. A

- 1.) CBM No. 1
 - 467' FSL & 467' FEL Section 24 - Township - 19 South - Range 37 East Unit P Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to run approximately 4400' plastic lined tubing.
- 4.) Propose to run a tension packer as a seal, and set at approximately 100' above the top perforation.

Part III. B

- 1.) The injection interval will be the San Andres and Glorieta formations. There is no production from these intervals in the immediate area.
- 2.) The injection interval will be 4464' 5950'. The interval will be selectively perforated.
- 3.) This well was originally drilled as an oil and gas well.
- 4.) See wellbore schematic.
- 5.) There is no production in this area.

Part VII.

- 1.) Proposed average daily injection will be 2500 bbls/day. Maximum injection rate will be 5000 bbls/day.
- 2.) The system will be closed.
- 3.) The average injection pressure will be 0 PSI.. The maximum will not exceed the limits set forth by the OCD.
- 4.) The source of the water will be from various leases trucked to this location.
- 5.) The San Andres and Glorieta are not productive within one mile of this location.

Part VIII

The injection interval is the San Andres and Glorieta formations, and is composed of primarily limestone and porous dolomites with occasional anhydrite and thin shale stringers, and is approximately 1800' thick. The top of San Andres is at 4228'. The base of the San Andres- top of Glorieta is at 5608'. The entire area is overlain by Quaternary alluvium. The Ogalalla is the major source of fresh water in the area, at a depth of 80' to 250'.

Part IX

The injection interval will be treated with a breakdown acid job.

Part X

The logs have been previously submitted.

Part XI

There are active fresh water wells within one mile of the CBM No. 1 location. The analysis for these wells are attached.

Part XII

We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the injection interval and any underground source of fresh water.

Part XIV

A copy of this application has been sent to : Bill McNeill Trustee M-Ranch, surface owner. 928 W. Mesa Verde, Hobbs, New Mexico 88242

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MESQUITE SWD, INC. CBM NO. 1 467' FSL & 467' FEL Sec. 24 - T19S - R37E Lea County, New Mexico

OPERATOR Mesquite SWD Inc DATE 6-3-98 LEASE WELL No. LOCATION C.BM 467'FSL + 467' FEL Section 24-7195-137E unit P Current Wellborg Schmatic <u>/3%</u> casing set at <u>372</u> with <u>400</u> sx of _____ cemen Hole size 17/2 " circulated <u>8 %</u> " casing set at <u>31/8</u> ' with <u>//00</u> sx of _____ cement Hole size 12/4 " Cinculateo SM ANDRES parts 4464'- 4484' CIBP @ 4600' WLBP CIBP @ 7310' + 35' cmt ABO parfs 7412- 7908' 116 holes $5\frac{1}{2}$ " casing set at <u>8004</u> with <u>1000</u> sx of _____ cement Total Depth 10000 ' Hole size 7% " DV Tool set @ 4727' 157 Stage 530 Sx Toc 5950' 2Nd Stage 530 SX Toc 3000'

OPERATOR ZINKE & Philpy DATE 6-3-98 LEASE WELL NO. LECATION Linnoos 330 FNL + 2310 FWL Section 30 - T195- K38E unit c 10 5× plug @ surface 85/18 SHOT MO pulled from 0 to 409. s'/2" Liner set @ 0 to 456' cuto w/ 225 5x cut - cinculated 30 5× plug 400'- 500' 150' plug 4210' - 4050' tragged @ 4050' <u>/3³/8</sub> " casing set at <u>297</u> ' with <u>250</u> sx of _____ Cemen</u> Hole size 171/2 " circulated pert 4208- 4306 A/ 4000 9A/ frae w/ 20000 9A/ gel Brine + 25000 + 20/40 50 <u>85/8</u> casing set at <u>4336</u> with <u>/650</u> sx of _____ cement Hole size 11 Toc By TS @ 560' 35 5× plug 4310 +0 4370' +Aggod @ 4310' 75 5× plug 5800 to 5550' 25 5× plug 6580' to 6500' 25 5× plug 7320' to 7240' 100 5× plug Tol to 8800' Total Depth <u>9/26</u> ' Hole size <u>7%</u> "

P+A 5-8-75 Slightly rutside Avier of review

OPERATOR TEXAS CRUDE 6-3-98 LEASE 1980' FNL + 1980' FEL WELL Na #/ 1-25 Section 25-7195-137E Unit G 7777 10 5× plug @ Surfrace PJA $\frac{85}{8}$ " casing set at <u>317</u> ' with <u>150</u> sx of _____ cement Hole size _// " CINCULATED 10 5× plug @ 2470' to 2410' SHOT AND pulled 5 1/2 csq @ 2430' 20 5× plug @ 4260'- 4110' pert 4226 - 4240' $5\frac{1}{2}$ " casing set at 4304 ' with 300 sx of _____ cement Total Depth <u>4304</u> ' Hole size <u>778</u> " 70C By 7S Ø 2430' Slightly outside Arena of revises

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HALLIBURTON

WATER ANALYSIS REPORT HOBBS NEW MEXICO

COMPANY	Mesquite SWD			REPOR ⁻	Г	98-278		
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SUBMITTED BY								
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ANALYST: John Eubank

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