

MICHAEL L. PIERCE CONSULTING GEOLOGIST

CPG 4527

P.O. BOX 636 HOBBS, NEW MEXICO 88241-0636 OFFICE (505) 392-1915 MOBILE (505) 369-531

OFFICE (505) 392-1915
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CONSULTING SERVICES

730

PEAK CONSULTING SERVICES

P.O. BOX 636 HOBBS, NEW MEXICO 88241-0636

October 09, 1998

Mr. Ben Stone OIL CONSERVATION DIVISION 2040 Pacheco Street Santa Fe, New Mexico

OCT 13 1993

RE: MESQUITE SWD, INC. CBM No. 1 C-108 Application

Dear Ben,

Please find enclosed MESQUITE SWD, INC.'S application to convert the CBM No. 1 well to disposal. I have included for your convenience a marked log section, showing the proposed disposal interval.

The surface is fee and is owned by Bill McNeill. Mr. McNeill is a partner in this well.

I have included a copy of the ad to be run in the Hobbs paper. I will forward a certified copy of the ad as soon as it becomes available.

I will call you in a few days, so that we might discuss this application. If you need any additional information, please do not hesitate to call me. Thank you for your cooperation.

Sincerely,

Michael L. Pierce

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: MESQUITE SWO, Inc.
	ADDRESS: P.O. BOX 481 CARISDAD NM BBZZI-0481
	CONTACT PARTY: CAY WISON PHONE: 895-3996
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 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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: Agent
	SIGNATURE: 505 392 1915 DATE: 10/B/98
*	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.
	·

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate 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;
- 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.

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 - (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.
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MESQUITE SWD, INC

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

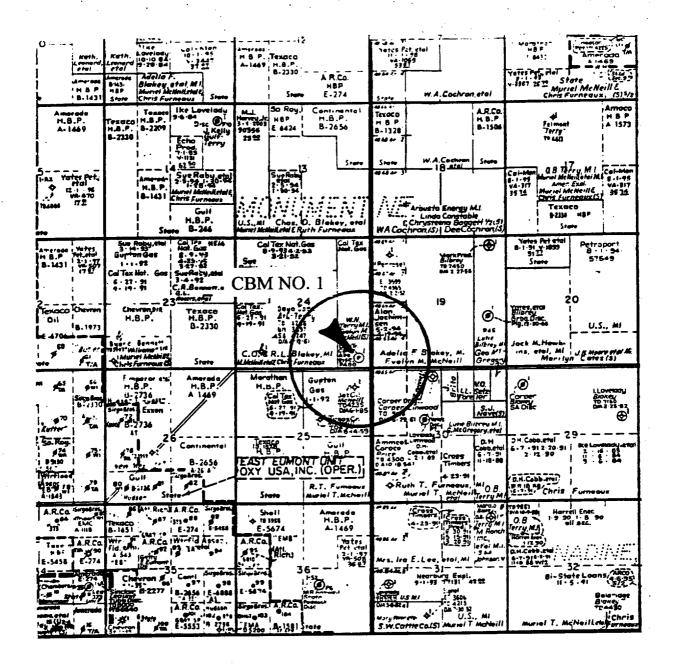
There are active fresh water wells within one mile of the CBM No. 1 location. The analysis for these wells are attached.

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



MESQUITE SWD, INC.

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

OPERATOR MOSQUITE	SWD Inc DATE 6-3-98
LEASE CBM	WELL NO. LOCATION 467' FSL + 467' FEL
	section 24-T195- R37E unit P
777 4 711 1147	Current Wellborg Schmatic
	13% casing set at 372 with 400 sx of cemented
	85/8 " casing set at 31/8 ' with _//oo sx of cement Hole size _12/4 " CirculateO
E	
	SM ANDRES ports 4464-4484'
	(18P @ 4600 WLBP
	CIBP @ 7310' + 35' cmt
	ABO parfs 7412- 7908' 116 holes
	5/2 " casing set at <u>8004</u> ' with <u>1060</u> sx of cement
·	Total Depth 10000 ' Hole size 7 1/8 "
	DV Tool set @ 4727'
	157 Stage 530 SX TOC 5950' 2Nd Stage 530 SX TOC 3000'
}	

-

	SWO Tuc			6-3-98	
CBM		WELL NO.	LOCATION 467' FSC	+ 467' FEL	
			Section Unit P	24- T195-R31E	
7770	7777	/	Proposen We	llbore Schmatic	
	/3 % " casing s	set at <u>3</u>	172 with 4	<u>00</u> sx of	ce men
		Но	ole size <u>/7/2</u>	" Circulated	
	85/8 " casin Hole size /2/4			<u>//60</u> sx of	cement
	Injection For 4464'- 5	terval			
	C15P @ 600	o'			
	CIBP (7310'	+ 35'	ent		
J F	ABO Perts 74/	2 - 7908 et at 80	116 holes	O6O sx of	comon+
	Total Depth /00				cellen c
	DV Tool se				
{	1st Stage	530	5X 700	5950'	
	1st Stage 2nd Stage	530	sx Toc	3000'	
<i>(</i>)					

OPERATOR ZINKE & Philpy	DATE (6-3- 98
LEASE	WELL NO LICCATION 330 FNL + 2310 FWL
10 57 85/8 51 5/2 4 225 30 5× 150' plug	Section 30-TI95-K-38E Unit C X plug @ surface ADT MO pulled from 0 to 409' Liner set @ 0 to 456' conto or/ Section 30-TI95-K-38E Unit C ADT MO pulled from 0 to 409' Liner set @ 0 to 456' conto or/ Section 30-TI95-K-38E Unit C HOSO' HOSO' HOSO' HOSO' HOSO' HOSO' HOSO'
perf 420 85/8 " Hole size _	Hole size $17/2$ " circulated Set at 297 " with 250 sx of
100 5× pl Total Dep	l_{ug} 5800 to 5550' l_{ug} 6580' to 6500' l_{ug} 7320' to 7240' l_{ug} 7d to 8800' oth $9/26$ ' Hole size $7\frac{7}{8}$ "
	Slightly outside Aren of review

OPERATOR Jet Oil	Company			6-3-98	
LEASE MCNeill		WELL Na.	LCCATION 660' FNL	4 660' FEL	
may//xmm	•	,	unit A	25-7195-R376	
	15 5× ,	olvg (2 0-25		
	$8\frac{5}{8}$ " casing Hole size $12\frac{1}{4}$	n	Cinculated		cement
	90 Sx plug 90 Sx plug (55 Sx plug (35 Sx plug (् टह २ ३६	960' - 2760' 93' - 3593'		
				sx of	cement
	Total Depth 4235	<u> </u>	le size $\frac{7\%}{8}$	11	

OPERATOR TEXAS CRUDE	0-3-98	
1-25	WELL NO LOCATION 1980' FNL + 1980' FEL	
	Section 25-7195-1 376 Unit G	
10	5x plug @ surface	
	P+A	
	P+A	
87/8	casing set at <u>3/7</u> with <u>/50</u> sx of ceme	ent
Hole s	ize // " CINCULATED .	
7///		
/0	5x plug @ 2470' to 2410' T AND pulled 5 1/2 CSq @ 2430'	
5407	T AND pulled 5/2 CSq @ 2430	
. 20	5x plug @ 4260'- 4110' 4226'- 4240'	
pert	4226-4240'	
=1/		
	casing set at 4304 with 300 sx of certification certification with 300 sx of 300 certification certification consists 300 sx of 300 certification 300 sx of 300 certification certification consists 300 sx of 300 certification certific	ment
iotai i	@ 2430'	
	Slightly outside Nun & review	

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WATER ANALYSIS REPORT HOBBS NEW MEXICO

-						DATE DISTRICT	-	98-278 10/6/98 Hobbs	
SUBMITTED BY WELL CBM #	E 1		DEPTH			FORMATI			
COUNTY Lea, N			FIELD			SOURCE	-		
SAMPLE _							-		
Sample Temp.	68	°F			°F		°F		°F
RESISTIVITY	15.015						_		
SPECIFIC GR.	1.000								
pH _	7.95						_		
CALCIUM	200	mpl			mpl		_mpl		mpl
MAGNESIUM _	0	mpi			mpl		_mpi		mpl
CHLORIDE	90	mpl			mpl		_mpl		mpl
SULFATES	50	mpl			mpl		_ mpl		mpl
BICARBONATES	195	mpi	· · · · · · · · · · · · · · · · · · ·		mpl _		_mpl		mpi
SOLUBLE IRON	0	^{mpi}			mpl		_mpl		mpl
OIL GRAVITY _	@	— — —°F		@	· °F	@	- - °F	@	~~ ~~ ~F
	NATER SUN	τ	for	House	trailer z	=.6 miles	6as	+ 1 CBM #	<u> </u>

Resitivity measured in: Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management: it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST: John Eubank

Proof of Notice

MESQUITE SWD, INC., whose address is P.O. Box 481, Carlsbad, New Mexico 88221-0481, proposes to convert the following well for the purpose of disposing produced water from oil and gas production.

The well is the CBM No. 1, 467' FSL & 467'FEL Section 24 - Township 19 South - Range 37 East, Unit P, Lea County, New Mexico. The injection interval is the San Andres - Glorieta from 4464' to 5950'. The maximum injection rate will be 5000 bbls/day, with 0 pressure.

Interested parties must file objections or request for hearing with the Oil Conservation Division 2040 Pacheco St., Santa Fe, New Mexico 87505, within fifteen days.

Inquiries regarding this application should be directed to M. L. Pierce, P.O. Box 636, Hobbs, New Mexico 88241-0636, (505) 392-1915.

Z 577 000 196

	US Postal Service Receipt for Cer No Insurance Coverage Do not use for Internation Sentry Mark 74th	Provided.	
	Street & Number	79	702
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'n	Restricted Delivery Fee		
April 1995	Return Receipt Showing to Whom & Date Delivered		
~	Return Receipt Showing to Whom, Date, & Addressee's Address	43	
800	TOTAL Postage & Faes	\$ 23	
13 Form 3800	Postmark or Date	<i>-</i> 39	

Z 577 000 195

US Postal Service

Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse) MWei \$ Postage Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom Date, & Addressee's Address PS Form **3800**, TOTAL Postage & Postmark or Date

Long - Tops

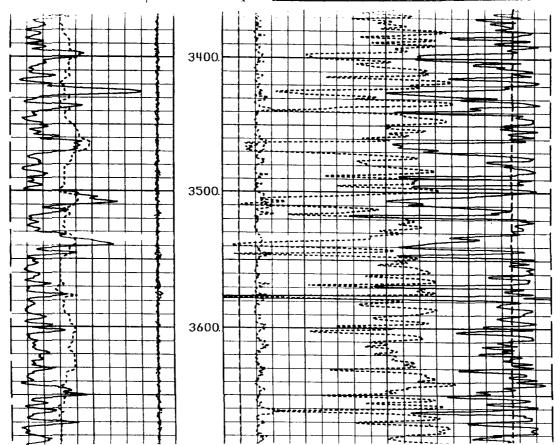
SPECTRAL DENSITY **DUAL SPACED NEUTRON LOG**

= Cement behind Pipe

= Injection Internal

85/8" CSG SET @ 3118 Cmt Circulated

	COHPAI	NY THE	LONG	TRUST				
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CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS Operator: Mesquire SWD, /w. Well: CBM Well. No.) Contact: MIKE PIERCE Title: CONSULTANT DATE IN 10-28-98 RELEASE DATE 10-28-98 DATE OUT 11-16-98 Proposed Injection Application is for: ____ WATERFLOOD ____ Expansion ____ Initial ___ Secondary Recovery ___ Pressure Maintenance Original Order: R- _____ **SENSITIVE AREAS** ___ Capitan Reef Data is complete for proposed well(s)? 46 Additional Data Req'd **AREA of REVIEW WELLS** 3 # of Plugged Wells 연수 Tabulation Complete 45 Schematics of P & A's 9 SCement Tops Adequate AOR Repair Required INJECTION FORMATION Injection Formation(s) S/A - GLOR Compatible Analysis 4/3 Source of Water or Injectate ARCA PRODUCTION PROOF of NOTICE __ Copy of Legal Notice ___ Information Printed Correctly Correct Operators ___ Copies of Certified Mail Receipts ___ Set to Hearing Date Objection Received NOTES: APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? **COMMUNICATION WITH CONTACT PERSON:** _Letter ____ 1st Contact: Telephoned Nature of Discussion ___Letter ______ Date 2nd Contact: ___ Telephoned

___ Letter _____ Date

3rd Contact:

___ Telephoned

OCT 1 6 1998

I, KATHI BEARDEN

Publisher

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

of1
weeks
Beginning with the issue dated
October 12 1998
and ending with the issue dated
October 12 1998
Kathi Polarda
Publisher
Sworn and subscribed to before
me this 9th day of
October 1998

Glenson

My Commission expires October 18, 2000 (Seal)

Notary Public.

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

LEGAL NOTICE October 12, 1998

Proof of Notice
MESQUITE SWD, INC.,
whose address is P.O. Box
481, Carlsbad, New Mexico

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Pierce Michael 7707 Plainfield Hobbs, NM 88240