

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

3-19-93

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

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

RE: Proposed: MC\_\_\_\_\_\_ DHC\_\_\_\_\_\_ NSP\_\_\_\_\_ SWD\_\_\_\_\_ WFX\_\_\_\_\_ PMX

Gentlemen:

B

I have examined the application for the:

Lease & Well No. Unit S-T-R Operator

and my recommendations are as follows: (form Cactus Dily Carp of TX. Sawy in Dig #1)

Yours very truly

Jerry Sexton Supervisor, District 1

/ed

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Ι.	Purpose: Applica	Secondary Re tion qualifies f	covery Pressure or administrative app	Maintenance proval? XX ye	Storage
II.	Operator:	DAVCRO INC.			
	Address:	2124 Broadway	, Lubbock, Texas	79401	
	Contact pa	rty: <u>Michael L</u>	. Pierce	Phone:	505-392-1915
III.	Well data:	•			this form for each well attached if nec <b>essary.</b>
IV.		•	existing project? order number authoriz		

- 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 avai<sup>1</sup>able 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.

Michael M Fierce Agent Name: Title \_\_\_\_ Date: \_\_\_\_3-16-93 Signature:

 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.

#### 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:
  - 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.

S. E. VED

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FORM C - 108 cont.

Part III. A

- 1.) Sawyer Deep No. 1 330' FSL and 2310' FWL Sec. 19 - T9S - R38E Unit N Lea County, New Mexico
- 2.) 17 1/2" hole size w/ 13 3/8" csg set at 391' w/ 375 sxs cmt. Cement circulated. 11" hole size w/ 8 5/8" csg set at 5120' w/ 400 sxs cmt. TOC at 4160' (50% efficiency) 7 7/8" hole drilled to 11960'. No csg set.
- 3.) Propose to run approximately 5050' of 2 7/8" plastic lined tubing.
- 4.) Propose to use a Tension Packer as a seal, and load the casing annulus with inhibited fluid.

#### Part III. B

- 1.) The injection formation is the lower San Andres, and the well is located in the Sawyer San Andres Field.
- 2.) The injection interval will be open hole from 5120 to approximately 5600'. The open hole section includes the only the San Andres section.
- 3.) This well was originally drilled as an oil well by Cactus Drilling Corporation of Texas, and was D&A.
- 4.) This well was not perforated.
- 5.) There is no deeper oil production in the area. The San Andres is productive in offset wells in the P1 and P2 zones. The injection interval is the P3 and remainder of the San Andres, and is not productive in this area.

Part VII.

- Proposed average daily injection will be 500 bbls/ day. Maximum will be 1000 bbls./ day.
- 2.) The system will be open.

- 3.) The average injection pressure will be O(Vacuum). The maximum will not exceed the limits set forth by the OCD.
- 4.) The source of the water will be from DAVCRO Inc. operated leases, and from San Andres production in the surrounding area.
- 5.) The San Andres is productive within one mile of the Sawyer Deep No. 1 well.

#### Part VIII

The injection interval is the Lower San Andres Formation, and is composed of Anhydrite and porous Dolomite. The top of the San Andres is at approximately 4195(-231), and the base at approximately 5605(-1641), with a thickness of 1400'. This entire area is overlain by the Quaternary Alluvium and Caliche. The Ogalalla at 150' to 300' below surface is the major source of fresh water in the area. There are no fresh water zones below the San Andres.

#### Part IX

The disposal interval will be treated with a 5000 to 7500 gallon acid job.

#### Part X

The logs were previously submitted by Cactus Drilling Corporation of Texas.

#### Part XI

There is one active fresh water well within one mile of the Sawyer Deep No. 1 location. The chemical analysis for this well is 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 disposal interval and any underground source of drinking water.

OPERATOR SEC. A-T95-L38E
DAVERO INC (Formerly CARtos Drilling Corport tim of TENAS) DATE LEASE SAWWAR DOOD WELL NO LICCATION
STAWYER DEEP   Unit N Sec 19-795-138E
330' FSL ~ 2310' FWL
Proposed Configuration
133/2 H and
$\frac{13\frac{3}{8}}{\text{Hole size } \frac{17\frac{1}{2}}{2} = \frac{391}{1000} \text{ with } \frac{375}{375} \text{ sx of } \frac{171}{2} = \frac{171}{1000} \text{ cement}$
27/3 plastic lined tubing of placker Seat @ = 5050'
$\frac{85/8}{8}$ " casing set at <u>5/20</u> ' with <u>400</u> sx of cemen:
Hole size _// " Toc @ 4160' @ 50% efficiency
OH Injection Futerval 5/20-5600 (Lower SAN Andres)
25 5x plug @ 5600'
25 5× plug @ 7600'
25 5× plug @ 9500'
25 5× plug @ 11200'
25 5× plug @ 11500'
Total Depth $\frac{1/960}{1}$ Hole size $\frac{7\%}{8}$ "
25 5x plug @ 70

OPERATOR	E
CACTUS Bailling Corporation of Texas March 15 1893	
LEASE SAWYER DEED WELL NO LOCATION 1 UNIT N SOC 19-795-38E 330' FSL + 2310' FWL	
530' FSC & 23/0 FWC	
STATUS: D+A	
25 5x plug C Sunfrace	
$\frac{133}{6}$ " casing set at <u>39/</u> with <u>375</u> sx of	
Hole size 17/2 " Circulated	ceme:
<u>85/8</u> " casing set at <u>5720</u> ' with <u>400</u> sx of	cement
Hole size _// " TOC @ 4160' 50% Efficie	wcy
25 5× plug @ 5100' 50% in + out & 85/8"	csg
25 5x plug @ 5600'	
25 5x plug @ 7600'	
25 5x plug @ 9500'	
25 5x plug @ 112001	
casing set at' with sx of	_ cemen
Total Depth <u>//960</u> Hole size <u>778</u> "	
25 5× plug @ 11500	
25 5× pluj @ TD	
8	

Sec 19 - 795 - 138E DATE OPERATOR PRIME ODERATING COMPANY MARCH 15 1993 WELL No. UNIT I SEC 19- 795- R38E LEASE Arco 19 Federal 1650' FSL + 500' FEL STATUS: Active PRODUCER SAWYER SAN ANDRES 77777  $8\frac{5}{8}$  " casing set at 4/7 ' with 250 sx of \_\_\_\_\_ cement Hole size \_//\_ " Circulateo Dertorations: 4908-5001 <u>4/2</u> " casing set at <u>5060</u> ' with <u>225</u> sx of \_\_\_\_\_ cement Total Depth <u>5065</u> Hole size <u>7%</u> " Toc 4457' 50% Efficiency

					- T95- 138E	<u>;</u>
OPERATOR AtlAntic Ric	CHFIELd COMPANY	÷		DATE	:H IS 1993	
	"Federal	WELL NO.	WIT D	Sec 19-	795 - 138E	
				M0 8		,
			Status:		SAWYER SAM	Anones
	777			8-2	27-70	
	<u>95/8</u> " casing		20.2 Wi	+ 175	ry of	coment
	$\frac{7/8}{100} \text{ casing}$					_ Cemerro
	NUTE SIZE	_	CICONICY			
77						
44						
	20 sx plug	3	2220 - 24	100		
	C/BP @ 4970	1 +	20 5x p	luc		
1 1 1	performations 4916			~7		
	per luntions rive	,-+,,	1733 - 01			
	<u>S/2</u> casing se	et at <u>50</u>	<u>539</u> ' with	<u>/600</u> s	sx of	cement
	Total Depth <u>504</u>					



	Sec. 30-795-R38E
OPERATOR MOBIL PRODUCIN	16 TX MO NM FOR MARCH 15- 1993
LEASE OHIO FEDERAL	WELL NO. LOCATION
	990' FNL And 1650' FEL
	5th thes: P+A SAWYER SAN ANORES
	. 1-4-85
	$8\frac{5}{8}$ " casing set at 361 ' with 175 sx of cement
	Hole size 12/4 "(ASSUME) CINCULATED
22	
	perf 410' circ hole, sq2 w/ 105 sxs cmt, cmt circulated to surface
~	Tagged @ 2238' Spot 15 SXS @ 2180' Tragged @ 2076'
77	perf 2200' + sqt w/ 25 5x3 50% in + out of 41/2" (sq
	Perf 2500' SQZ w/ 25 SXS 50% in tout of 41/2" (SQ. Tagged @ 2380'
	SET CIBP + 5 SXS CMt @ 4850 - 4790
	perforations 4897-99, 4902-13, 4922-29, 4938-46 4968-72'
	$\frac{4}{2}$ casing set at <u>5044</u> with <u>240</u> sx of cement
	Total Depth <u>5044</u> Hole size <u>7%</u> "(Assume) TOC @ 4401 50% efficiency



OPERATOR				······			OATE		95-13	
LEASE	HE OHL			MY	WELL No.			AAACH	15 19	73
	Federal	<u>  Ke</u> ,	IL A		WELL Na	LECATION D	sec 19	- T95 -	1386	-
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(			Total [	)epth <u>3</u>	104	Hole size _	<u> 7%</u>	11 -		

## HALLIBURTON SERVICES

HOBBS, NEW MEXICO

TO DAUCO	Sample Number 104
	*Milligrams per liter
Submitted by	
	DepthFormation
County Field	Active
MONTH WEST of WELL	
Resistivity	
Specific Gr	
pH	
Calcium*	· · · · · · · · · · · · · · · · · · ·
Magnesium*	
Chlorides* <u>lu5</u> mpl	· 
Sulfates*	
Bicarbonates*	
Soluble Iron* Fe	
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JI.EUBANK

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