BRUCE KING GOVERNOR

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

12-10-93

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

OIL CONSERVATION DIVISI P. O. BOX 2088 SANTA FE, NEW MEXICO 87	$\sim 1/1/292$
RE: Proposed: MC DHC NSL NSP SWD WFX PMX	
Gentlemen: I have examined the app	
Barbara Fasker Operator and my recommendations	Lease & Well No. Unit S-T-R
<u> </u>	
<u> </u>	
Yours very truly, Yours very truly, Werry Sexton Supervisor, District 1	2

BARBARA FASKEN FASKEN OIL AND RANCH INTERESTS

303 WEST WALL AVENUE, SUITE 1900 MIDLAND. TEXAS 79701-5116 (915) 687-1777

December 6, 1993

Oil Conservation Division Mr. Ben Stone P.O. Box 2088 Santa Fe, New Mexico 87501

> Re: Application for Authorization to Inject Barbara Fasken-Operator Wingerd #13 Sec 24, T-12S, R-37E Gladiola Field Lea County, New Mexico

Dear Mr. Stone:

All supporting data for the above noted application are attached. The proposed injection interval is 11,862'-11,898'. The well will be equipped with 3-1/2" tubing in 5-1/2" casing. Fasken requests permission to set the injection packer at +/-11,000' for the following reasons:

- 1. To avoid setting in 6 degree deviation at +/-11,775'.
- 2. To allow more clearance between the 3-1/2" collars and the 5-1/2" casing. The 5-1/2" 17#/ft casing is set surface-11,100'; 20#/ft below 11,100'.
- 3. The squeezed Mississippian perfs 11,192-232' will be below the packer thereby ensuring a positive tubing/casing annulus integrity test.

The only well within the area of review with Mississippian perforations is the Fasken Wingerd #2. The Wingerd #2 was authorized for disposal into the Devonian and Mississippian zones by Administrative Order SWD-533 dated 9-20-93. During the well #2 workover the Devonian zone was found to be capable of flowing oil at commercial quantities. The well is currently flowing from the Devonian with Mississippian perfs open under the packer. A downhole commingling request has been made assigning 0% of the production to the Mississippian.

Sincerely,

Brown

Carl Brown Petroleum Engineer

CWB/cb cc: File

FORM			
Revis	ed	7-1-81	

STATE OF NEW MEXIC	OIL CONSERVATION DIVISION	FORM C-108
AND MINERALS DEPAR	POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING	Revised 7-1
	SANTA FE NEW MEXICO 87501	

APPLICA	ATION FOR AUTHORIZATION TO INJECT
Ι.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X yes no
II.	Operator: Barbara Fasken
	Address: 303 W. Wall, Suite 1900, Midland, TX 79701
	Contact party: Carl W. Brown Phone: (915) 687-1777
111.	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?yesno If yes, give the Division order number authorizing the project
۷.	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; 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 the receiving 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.). Attach appropriate geological data on the injection zone including appropriate lithologic
*VIII.	detail, geological name, thickness, and depine value (aquifers containing waters with bottom of all underground sources of drinking water (aquifers containing the proposed 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.	available and producing) within one mile of any injection and in a location of wells and dates samples were taken.
XII.	examined available geologic and engineering data and till one and any underground 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.
	Title <u>Petroleum Engineer</u>
	Signature: Carl W. Brown Date: 12-6-93

 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.

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- VI. Table of wells within area of review and schematics of P&A wells is attached.
- VII. 1. Average Daily Rate: 2500 BWPD Maximum Daily Rate: 5000 BWPD
 - 2. Closed System
 - Average Pressure: Vacuum initially 3. Maximum Pressure: 500 PSI
 - 4. Water Sources: Gladiola-Devonian produced water.
- VIII. The proposed injection zone is the Devonian age dolomite at a depth of approximately 11,860' with a gross thickness of +/- 250'.

Fresh water aquifer at this site is the Ogalalla found from near surface to a depth of 300'.

- IX. Propose to stimulate the existing perforations 11862-11898 with 6,000 gallons 15% HCL acid.
- X. Logs have been filed with OCD.
- XI. Chemical analysis of fresh water wells is attached.
- XII. Applicant attests that a thorough examination has been made of all available geologic, engineering, and well data and that no hydorlogic connection exists between the proposed injection interval and the overlying fresh water aquifer.
- XIII. Proof of Notice in area newspaper will be forwarded under separate cover.

INJECTION WELL DATA SHEET

DPERATOR LLock 24 T125 A174 Mill R0. PROMAL LOCATION SECTION Tables/P ANDE Schemalic Idular.Dida Surface Casing Site 13-3/8" Si		rbara Fasken	Wingerd			
13 13 100 MSR 100	U			24	T12S	R37E
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13-3/8" @ 318' Size 9-5/8" Cenented with _1500			Hole si	ze <u>17</u> ¹ / ₂ "		
Size <u>3.2/8</u> Chemeter with <u>1000</u> st. ToC <u>1600</u> feet determined by <u>Calc.</u> Hole size <u>124"</u> Long string Size <u>55"</u> Chemeter with <u>1100</u> st. Hole size <u>124"</u> Long string Size <u>55"</u> Chemeter with <u>1100</u> st. Hole size <u>124"</u> Long string Dev. parf 1192-327 sqrd. wilder <u>12,245"</u> Dev. parf 1192-327 sqrd. wilder <u>12,245"</u> Dev. parf 1192-328 sent. Feef 1206-209 Cat. ret. 12240' wilder st. Cat. ret. 1225 wilder st. Cat. ret. 1225 wilder st. Cat. ret. 1226' wilde						
Hole size 121" Long string Size 5½" 2-7/8" top, 0 606! Miss. perf 11862-898! Dev. perf 1240-700 Perf 1240-700 Dev. perf 1240-700 w/100 sx Dev. perf 1240-701 w/100 sx <td></td> <td>13-3/8" @ 318'</td> <td>Size</td> <td>9-5/8</td> <td>Cemented with <u>1500</u></td> <td> s×.</td>		13-3/8" @ 318'	Size	9-5/8	Cemented with <u>1500</u>	s×.
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Size 55'''''''''''''''''''''''''''''''''''						
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<pre>rf 12200-218'</pre>	nt. ret. 12148' w/					
Perf 12450-70' Cut. ret. 17529 w/100 sx Ellen. perf 12721-736' Sig" 17# 0-11,100', 5ig" 20# 11,100'-TD Tubing size 3ig" lined with plastic coating (material) set in a Watson Arrowset I packer at ±11,000 (brand and model) feet (or describe any other casing-tubing seal). feet Other Data 1. Name of the injection formationDevonian feet 2. Name of Field or Pool (if applicable) Gladiola 3. Is this a new well drilled for injection? YesX_ No If no, for what purpose was the well originally drilled? Completed as Devonian oil producer 10-24-56 4. Has the well ever been perforated in any other zone(s)? List all such cerforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)Miss. 11192'-11232' sgzd. w/165 sx CIBP @ 11990' w/2 sx PBTD 11912', Dev. perf 12006-20', cmt. ret. 12148' w/100 sx, Dev. perf 1200-218, cmt. ret. 12240' w/100 sx Dev. perf 12318-332', cmt. ret. 1248' w/100 sx, Dev. perf 12318-332', cmt. ret. 1248' w/100 sx, Dev. perf 12318-332', cmt. ret. 1240' w/150 sx, Dev. perf 12	erf 12200-218'		w/100 Dit			
Cmt. ret. 12529 w/100 sx Ellen. perf 12721-736'. Sig" 17# 0-11,100', 5ig" 20# 11,100'-TD Tubing size		Cmt. ret. 12410'	w/150 sx			
Si2" 17# 0-11,100', 5%" 20# 11,100'-10 Tubing size		Cmt. ret, 12529 V	w/100 sx			
Tubing Size3 ¹ / ₂ "lined withplastic coatingset in a(material)set in a(material)set in a(material)set in a(brand and model)(or describe any other casing-tubing seal). Other Data 1. Name of the injection formation pevonian		5 Ellen. perf 12721	י, 5 ¹ 2" 20# 11,100	-TD		
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