

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

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 NSL NSP SWD WFX PMX	Lease Name No. Ut.	Sec. Twp. Rge.	Footage
Gentlemen:	Anasazi "4" 3 J Scharbauer "4" 3 P	4 20S 33E	1,650' FSL 1,980' FEL 660' FSL 660' FEL
I have examined the application for the: Folcon Creek Res. Inc	Federal "9" 3 C Barber Federal 2 E Federal "9" 6 H State "BF" 4 A	9 20S 33E 9 20S 33E 9 20S 33E	330' FNL 2,310' FWL 1,980' FNL 660' FWL 1,650' FNL 990' FEL 330' FNL 330' FEL
Operator Lease & Well	No. Unit	S-T-R	
and my recommendations are as follows:			
Yours very truly, Chris Williams			
Chris Williams Supervisor, District 1	N 17-00		
Supervisor, District 1 /ed /ed /ed /ed /ed /ed /ed	1-1"	-	

STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

FORM C-108 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I	PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage												
	Application Qualifies for administrative approval? Yes X No												
II.	OPERATOR: Falcon Creek Resources, Inc.												
	ADDRESS: 621 17 th Street, Suite 1800, Denver, Colorado 80293-0621												
	CONTACT PARTY: Joe Cox, Senior Engineer, 303-675-0007												
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 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;												
	 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												
	5. If injection is for disposal purposes into a zone not productive of oil or gas or within one mile of the proposed well,												
	attach a chemical analysis of the disposal zone formation water (may be measured of inferred from existing literature, studies, nearby well, etc.).												
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness,												
7 111.	and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing												
	water with total dissolved solids concentrations of 10,000 mg/l 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.												

Applicants for disposal wells must make an affirmative statement that they have equinined available geologic and XII. engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my XIV. knowledge and belief. TITLE: Senior Engineer NAME: Joe H. Cox, Jr. DATE: August 19, 1999 SIGNATURE: If the information required under Section VI, VIII, X and XI above has been previously submitted, it need not be resubmitted. Completion Reports Please show the date and circumstances of the earlier submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

- The following well data must be submitted for each injection well covered by this application. The data must be both in A. tabular and schematic form and shall include:
 - Lease name; Well No.; Location by Section, Township and Range; and footage location within the section. (1)
 - Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such (2) top was determined.
 - A description of the tubing to be used including its size, lining material, and setting depth. (3)
 - The name, model, and setting depth of the packer used or a description of any other seal system or assembly used. (4)

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.

- 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 B. be repeated.
 - The name of the injection formation and, if applicable, the field or pool name. (1)
 - The injection interval and whether it is perforated or open-hole. (2)
 - State if the well was drilled for injection or, if not, the original purpose of the well. (3)
 - Give the depths of any other perforated intervals and detail on the sacks of cement of bridge plugs used to seal off (4) such perforations.
 - Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any. (5)

XIV.

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:

- The name, address, phone number, and contact party for the applicant; (1)
- The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and (2) Range location of multiple wells;
- The formation name and depth with expected maximum injection rates and pressures; and, (3)
- A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, (4) 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

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

NOTICE: Surface owners of offset operators must file any objections or request for hearing of administrative applications within 15 days from the date the application was mailed to them.

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West Teas (Yates-Seven Rivers) Field, Lea County, NM Appplication for Authorization to Inject Injection Well Data, Section III, Form C-108 Falcon Creek Resources, Inc.

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									Surface	e Casing					Produ	ction Casin	g		Injection	on String	and Pac	Ker
Lease Name No. Ut. Sec. Twp. Rge.	ž	ū	Sec.	Ţ.	Rge	Footage	00	Depth Cem	rent Ho	le (in.)	Cmt. Top	Method	QΟ	Depth	Cmt. (sx)	Hole (in.)	Cmt. Top	Method	Size De	epth Pa	ker* D	epth
Anasazi "4"	٣	-	4	202	33E	1,059,1	8.625	1,368' 710 s	sx 12.2	2.25" Si	urface	Calc.	5.50	Ι'	780 sx	7.875*		i	2.875" 3,			,130
Scharbauer "4"	٣	۵.	4	4 20S	33E (560' FSL 660' FEL	8.625" 1,354"	1,354' 700 sx		•	urface		4.50		815 sx	7.875"			2.375" 3,			,00¢
Federal "9"	٣	ပ	6	9 20S	33E	330' FNL 2,310' FWL	8.625"	1,300° 540 sx		•.	urface		5.50		580 sx	7.875*			2.375" 3,			,050
Barber Federal	7	ш	6	9 20S	33E	1,980' FNL 660' FWL 8.625"	8.625"	1,256' 700 sx		12.25" S	Surface	Report	4.50	3,400'	750 sx	7.875"	Surface	Report	2.375" 3,	3,030' AI	AD-1 3	3,030'
Federal "9"	9	I	0	9 20S	33E	1,650' FNL 990' FEL					urface		5.50"		785 sx	7.875"			2.875" 2,			,950
State "BF"	4	<	91	16 20S	33E	330' FNL 330' FEL	9.625"	1,115' 440 sx			urface		5.50"		635 sx	7.875"			2.875" 3,			,050

*Note: Packers are to be Baker model "AD-1" or equivalent

III. B.

		Isolation Method	N/A		N/A			. N/A			N/A				Proposed CIBP at 3,275' topped with approx 5 sx cement	to isolate Seven Rivers interval from injection				
	Other	Intervals	None		None			None			None				3,285-3,300'					
	Original	Purpose	Prod.	Injection*	Prod.	Prod.	Injection*	Prod.	Injection*	Injection*	Prod.	Injection*	Prod.	Injection*	Prod.		Prod.	Injection*	Injection*	
		Perf/OH	Perf	Perf	Perf	Perf	Perf	Perf	Perf	Perf	Perf	Perf	Perf	Perf	Perf		Perf	Perf	Perf	,
111	Injection	Interval	3,230-3,292'	3,296-3,426*	3,104-3,88	3,263-3,279	3,248-3,312*	3,161-3,252	3,147-3,154*	3,299-3,409**	3,138-3,219	Yates 3,299-3,374*	Yates 3,060-3,176'	3,194-3,260*	en Rivers		Yates 3,160-3,294'	3,150-3,156'*	3,350-3,394*	
•		Name	Yates	Yates	Yates	Yates	Yates	Yates	Yates	Yates	Yates	Yates	Yates	Yates	Seven I		Yates	Yates	Yates	
		Footage	4 20S 33E 1,650 FSL 1,980 FEL Yates		4 20S 33E 660' FSL 660' FEL			9 20S 33E 330' FNL 2,310' FWL Yates 3,161-3,252'			9 20S 33E 1,980' FNL 660' FWL Yates 3,138-3,219"		9 20S 33E 1,650' FNL 990' FEL				A 16 20S 33E 330' FNL 330' FEL			
		Rge.	33E		33E			33E			33E		33E				33E			
		Sec. Twp.	4 20S		4 20S			9 20S			9 20S		9 20S				16 205			
		o.	_		3 P			3 C			2 E		H 9				4 A			
		Lease Name No. Ut. Sec. Twp. Rge.	Anasazi "4"		Scharbauer "4"			Federal "9"			Barber Federal		Federal "9"				State "BF"			

*Note: Additional perforations planned for injection

**Note: Federal "9" #3 is planned to be deepened into additional Yates interval, cased and perforated for injection

III. B. (5) Other Producing Intervals in Area

No zones shallower than the Yates have been productive in the field area. Historically productive deeper zones include Bone Springs and Morrow intervals at approximately 9,300° and 13,300° respectively. The only currently productive deeper interval is the Morrow in the Anasazi "9" Federal #1 in the SW/4 SE/4 of section 9, T20S R33E (13,289-13,428).

Falcon Creek Resources, Inc. West Teas Field, Lea Co. NM