

GOVERNOR

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

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

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OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501					
RE: Proposed: MC DHC NSL NSP SWD WFX PMX					
	Lease Name Anasazi "4"	No.	<u>Ut.</u>]	Sec. Twp. 4 20S	Footage 1,650' FSL 1,980' FEL
Gentlemen:	Scharbauer "4"	3	P	4 20S	660 FSL 660 FEL
	Federal "9"	3	ċ	9 20S	330 FNL 2,310 FWL
I have examined the application for the:	Barber Federal	2	Ē	9 20S	1,980' FNL 660' FWL
	Federal "9"	6	Н	9 20S	1,650' FNL 990' FEL
Folcon Creek Res Inc	State "BF"	4	A	16 20S	330' FNL 330' FEL
	No. Unit		,	S-T-R	
			•	J-1-1	
and my recommendations are as follows:					
			<u></u> .		 <u> </u>
Yours very truly, Mis Williams					

Chris Williams Supervisor, District 1

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STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT

resubmitted).

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

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:
	 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 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, 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

*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.

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WELL DATA III.

- 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. **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:

- 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.

Side 2

- XII. Applicants for disposal wells must make an affirmative statement that they have chamined available geologic and 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.
- 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: J	oe H. Cox, Jr.	TITLE:	Senior Engineer		
	RE: Just GT		DATE:	August 19, 1999	:

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

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

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Lease Name	No.	Ut. Se	Sec. Twp.	. Rgc.	Footage	do	Depth Ce	ment	Cement Hole (in.)	Cmt. Top	Method	QD			Hole (in.)	Cmt. (sx) Hole (in.) Cmt. Top Method	Method			Depth Packer*	
Anasazi "4"	m	 _	4 20S	33E	1,650' FSL 1,980' FEL	8.625"	1,368' 710	710 sx 12	12.25" 3	Surface	Calc.	5.50"	3,550'	780 sx	7.875	579'	Calc.	2.875"	3,130'	1-dv	3,130'
Scharbauer "4"	'n	۔	4 20S	33E	660' FSL 660' FEL	8.625"	1.354' 700		12.25"	Surface	Calc.	4.50"		815 sx	7.875"	70	Temp.	2.375	3,000	AD-I	3,000
Federal "9"	~	C	9 20S	33E	330' FNL 2.310' FWL	8.625		-		Surface	Report	5.50"		580 sx	7.875*	Surface	Report	2.375"		AD-1	3.050'
Darker Federal			0000	335	LOOM ENIL KEN ENVI	1363 0								750	1 075"		Dence	1375 5			2 020
SCI FCUCIAI	4	u :	202 6		I, YOU FINL GOU FWL		NN/ 0C7'I			Surface	reput			XS DC/	C/0'/	Surface	veball	17200			
Federal "9"	0	Ŧ	9 20S	33E	1,650' FNL 990' FEL		1,320' 54(Surface	Report			785 SX	7.875	Surface	Keport	2.875			2,950
State "BF"	4	۲	16 20S	33E	330' FNL 330' FEL	9.625"	1,115' 44(440 sx 13	12.25"	Surface	Report	5.50"	3,465'	635 sx	7.875"	Surface	Report	2.875"	3,050'	AD-I	3,050'
te: Packers	are to t	be Bake	r model	"AD-I	*Note: Packers are to be Baker model "AD-1" or equivalent																
f																					
III. B.							Intertion	5	_	Original	1 Other	2									
Lease Name	I No.	UL Se	Sec. Twn	Ree	Footage	Name	Interval		Perf/OH	Purpose			Isolation	Isolation Method							
Anasazi "4"			4 20S	-	1,650' FSL 1,980' FEL	Yates	3,230-3,292]	1	Prod.	Į	1	N/A			٦					
						Yates	3,296-3,426*		Perf	Injection*											
Scharbauer *4*	m	۵.	4 20S	33E	660' FSL 660' FEL	Yates	3,104-3,88'		Perf	Prod.	None		N/A								
						Yates	3,263-3,279'		Perf	Prod.											
						Yates	3,248-3,312**		Perf	Injection*											
Federal "9"	m	ပ	9 20S	33E	330' FNL 2,310' FWL	Yates	3,161-3,252'		Perf	Prod.	None		N/A								
						Yates	3,147-3,154'*		Perf	Injection*											
						Yates	3,299-3,409**	±	Perf	Injection*											
Barber Federal	7	ш	9 20S	33E	1,980' FNL 660' FWL	Yates	3,138-3,219'		Perf	Prod.	None		N/A								
						Yates	3,299-3,374'*		Perf	Injection*											
Federal "9"	9	н	9 20S	33E	E 1,650' FNL 990' FEL	Yates	3,060-3,176'		Perf	Prod.											
						Yates	3,194-3,260'*		Perf	Injection*											
						Seven Rivers	Rivers	4	Perf	Prod.	3,285-3,300	300	Propose to isolat	ed CIBP at te Seven F	t 3,275' top tivers inter-	Proposed CIBP at 3,275' topped with approx 5 sx cement to isolate Seven Rivers interval from injection	oprox 5 sx ection	cement			
State "RF"	Ą	A	200 21	1	11E 110' ENI 110' EEI	Valec	100 E-091 E		Perf	Prod											
5	•		224 21			Varia V	2 150 2 1564		1 e. f	Intertion*											
						I alco															
						Verte Divers	י 4ענ,נ-טכנ,נ מיויפי		rcii Darf	Injection*	1 274.2 204	101	CIBD	27 CT 3765	to icolate	CIBD set at 3 365' to isolate Savan Bivars	5			•	
*Note: Additional perforations planned for injection	inal per	foration	ns plann	ed for	injection	36761		-		Liberto.	·-+/- ·-			-0							
Vote: Feder	al "y" #	siq si ti	inned to	be dee	**Note: Federal "9" #3 is planned to be deepened into additional Yates interval, cased and periorated for injection	tes inter	val, cased	and peric	orated tor	Injection											
III. B. (5) O)ther P No z	roducii tones st	(5) Other Producing Intervals in Area No zones shallower than the Yate	vals in than th	er 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.	ctive in	the field a	rea. Hist	torically p	roductive c	deeper zond	es includ	le Bone	Springs at	nd Morrow	intervals at	approxim	ately 9,3	00' and	13,300	respective
	2	oury cr		produc	cuve deeper interval is une	MOILON		192921 9	reucial		W/4 35/4 (071 ' 6 II) accv e	r'c1-607'c1	·(07					
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Falcon Creek Resources, Inc. West Teas Field, Lea Co. NM	uces, Inc. a Co. NN																				Form C-108

Falcon Creek Resources, Inc. West Teas (Yates-Seven Rivers) Field, Lea County, NM Appplication for Authorization to Inject Injection Well Data, Section 111, Form C-108

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