

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

April 12, 1982

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Case No 469

Barber Oil, Inc. 111 West Mermod P.O. Box 1658 Carlsbad, NM 88220

ATTENTION: Michael D. Garringer

RE: Exception to Rule 705-A for Injection Wells

Dear Sir:

Pursuant to Barber Oil, Inc.'s request for exception of thirty-seven (37) injection wells, as listed on TABLE I, from Rule 705-A, the Oil Conservation Division (OCD) hereby denies your request.

Review of your application and history thereof by the Santa Fe and Aztec District offices concludes that you have not demonstrated good cause to be entitled to exception to Rule 705-A.

The OCD requests that Barber Oil, Inc., take appropriate actions as outlined in the OCD Memorandum of September 30, 1981. (See Attachment)

If you have any questions regarding this matter, please do not hesitate to call or contact Oscar Simpson, at (505) 827-2534.

Sincerely,

Joe D. Ramey

Division Director

JDR/OS/dp

Enc.

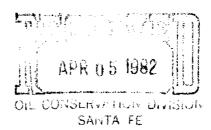
TABLE I

1. Crosby Federal Wells	#1,	Section	12, Township	20 South, Range	28 East
2.	#2		**	•	•
3.	#4	•	*	•	•
4. Turner Federal Wells	42	Cambia-	13 Marmahia (10 Courth - Dougle	20. 7
5.	#3	section	13, Township 2	O South, Range	
6.	#6				
7.	#12	n			•
8.	#13				1
9.	#15	#		•	•
10.	#18	**		н	1
11.	#21	**		н	,
12.	#22	•	•	•	i
13. Wills Federal Wells	#2. 9	Section	13. Township 2	O South, Range	28 Fac+
14.	#5	*	. "	w	
15.	#6	**	•		
16.	#8			•	
17.	#10		*		
18.	#14	n			
19.	#15	•	*	•	
20.	#17	Ħ	•	•	
21.	#18	Ħ		•	
22.	#19		*		
23.	#21		*	•	
24.	#23		*	•	•
25.	#25	•	*	."	
26.	#26	Ħ			
27.	#27		**		
28.	#30	n		•	
29.	#33	*		•	
30.	#34	*	•		
31.	#35	•	•	•	
32.	#36	**	*		
33.	#37		•	*	
34.	#39	•		**	
35.	#41	**	*	*	
36.	#42				
37.	#45	*	#	•	

BARBER OIL, INC.

111 West Mermod Post Office Box 1658 CARLSBAD, NEW MEXICO 88220 (505) 887-2566

April 1, 1982



State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attn: Oscar Simpson III

Water Resource Specialist

Re: Exception to Rule 705-A

LC-050797, Crosby-Turner-Wills Comm. Btry Russell Field Waterflood, Eddy Co., NM

Dear Sir:

As per your letter of March 24, 1982 I hereby submit "Injection Well Data Sheets" on all wells listed in our letter of March 4, 1982 with one exception. Wills #29 is currently "Plugged & Abandoned".

The "Injection Well Data Sheets" should complete your information for sub-paragraphs (a) thru (j). Sub-paragraph (m) is not applicable and (k) & (1) are as follows:

- (k) All of the injection wells were temporarily discontinued during the months of May and June, 1980.
- (1) Injection will resume as soon as a tertiary recovery program is economically feasible.

Again, I must point out that no drinking water sources are located in this area and we consider the wells essential to our future tertiary recovery program.

Very truly yours,

BARBER OIL, INC.

Michael N (Garringer

Manager

Enc1: 37

INJECTION WELL DATA SHEET CLOSBY FEDERAL Tobular Data Schematic Surface Casing " Cemented with ____sx. TOC _____ feet determined by ___ Hole size Intermediate Casing Size ™ Cemented with ____sx. feet determined by Hole size 7" CASTING Long string 7" Cemented with 75 sx. Size ____ TOC CINKNOWN feet determined by 811 Hole size 845 Total depth Injection interval 644 feet to 881 feet TO 8811 lined with _____ (material) __ packer at __ (brand and model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation TATES 2. Name of Field or Pool (if applicable) RUSSEU 3. Is this a new well drilled for injection? /7 Yes No No If no, for what purpose was the well originally drilled? ___ Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)

Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in

this area. NONE

	OIL, INC.			1.2	AC
ELL NO.	330° FSL AND TUDTAGE LOCATIO	I LOSO' FEL	ECTION -	20 South TOWNSHIP	RANGE
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Schemat	·ic		Tabul	or Data	
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	^	. ,	iate Casing	Cemented with	
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	7" CASIA	/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Cemented with	
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	<i>.</i>		580	•	15.6
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		_ lined with	(material	.)	set in a
ing size		35.			feet.
4	and model)		packer at _		1000
(brand	and model) ny other casing-	·tubing seal).	packer at		
(brand	and model) ny other casing-	-tubing seal).	packer at		
(brand describe an	ny other casing-				
(brand describe and describe an	ny other casing-		5		
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(brand describe and mer Data Name of the Is this a n	ny other casing- e injection form eld or Pool (if new well drilled	applicable) R	S USSELL 17 Yes 127		
(brand describe and mer Data Name of the Name of Field Is this and If no, for the Mass the well-	e injection formeld or Pool (if new well drilled what purpose wall ever been per	applicable) R d for injection? as the well origin	Yes Anally drilled?	PROBUCTION .	
(brand describe and mer Data) Name of the Name of Field Is this and If no, for the well-	e injection formeld or Pool (if new well drilled what purpose wall ever been per	applicable) R	Yes Anally drilled?	PROBUCTION .	
(brand describe and mer Data) Name of the Name of Field Is this and If no, for the well-	e injection formeld or Pool (if new well drilled what purpose wall ever been per	applicable) R d for injection? as the well origin	Yes Anally drilled?	PROBUCTION .	

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Otho	er Data						
1.	Name of	the inject	ion formation	PATES			
2.	Name of	Field or P	ool (if applica	oble) Russe	ll		
3.	Is this	a new well	drilled for in	njection? /7	Yes 💯	No	
	If no,	for what pu	rpose was the v	well originall	y, drilled?	RODUCTION	
4.	Has the and giv	well ever e plugging	ocen perforated detail (sacks d	d in any other of cement or b	zone(s)? Lis ridge plug(s)	st all such perfo used) <u>NO</u>	orated intervals
	Ci 11	a dankli t	and name of	v overlying an	d/or underlyis	ng oil or gas zon	one (needs) in
5.		ea. NONE		y overlying an	d, or underlyin	ng off of gas zon	

P	ARBER (OTC. TING	40-050797	Tue	WER FEDERAL	
ייוט						
WEL	LL NO.	1980 FSL AND 1980 FW	SECTION		TOWNSHIP	28 E RANGE
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	Sche	ematic .	Sunface Coning		r Data	
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			TOC LINKWA	JN feet	determined by	
			Hole size	811		*
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			(perforated or	open-hole, i	ndicate which)	
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		FORMER				
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		UTBERSON Z'X7	р	acker at	735	feet.
(or		e any other casing-tubing	seal).			
Oth	er Data	*				
1.	Name of	the injection formation _	YATES			
2.	Name of	Field or Pool (if applica	ble) Russe	U		
3.	Is this	a new well drilled for in	jection? /_7	Yes 💯	No	
	If no, f	for what purpose was the w	ell originally.	drilled? R	COUCTINGO	
		,				
4.		well ever been perforated				orated intervals
	and give	e plugging detail (sacks o	cement of DF1	ode brad(s)	useu/ (V)	
		e depth to and name of any	overlying and/	or underlui-	o oil or one	(acal-) :-
5.		ea. NONE	overlying and/	or underlyin	y orr or das sou	.ca (hoois) in

- [SARBE	e Ott, Tok.	CC-050797	TURNER FEDERAL	
	LL NO.	FUOTAGE LOCATION	FEL 13 SECTION	TUWNSHIP	28 E RANGE
	Sche	ematic .		Tabular Data	
			Surface Casing	2 ₁₀	
			Size	Cemented with	sx.
			TOC	feet determined by	
	24		Hole size		
			Intermediate Casing		
			Size	* Cemented with	sx.
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			Hole size		
			Long string		
	- [Size	7" Cemented with	50 sx.
				feet determined by	
		7" CASING	Hole size	_	F
	•		Total depth		
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				terial)	
		nd and model)	packer	a	feet
(or	describe	any other casing-tubing	seal).		·
	er Data		U ₀ -		
1.		the injection formation			
2.		Field or Pool (if applic			
3.	Is this	a new well drilled for i	njection? / Yes	Ø No	
ř	If no, f	or what purpose was the	well originally drill	ed? TRODUCTION	
			4.4	10. 41.	
4.		well ever been perforate plugging detail (sacks			rated intervals
5.	Give the	depth to and name of an	y overlying and/or und	derlying oil or gas zon	es (pools) in

1	ARBER	Oti	INC.	LC-C	50797	TURNER FEDER	A(
ייוט	lo	110	- 198	BO!		205 TOWNSIIIP	2.0
WEL	L NO.	660 F00	TAGE LOCATION	es' FWC	IZ SECTION	JOS	RANGE
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	Sche	ematic	•			Tobular Data	
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						" Cemented with	
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		-		Intermed	iate Casing		
				Size		" Cemented with	sx.
				TOC		feet determined by	
				Hole siz	е		
			*	Long str			
						" Cemented with	1200
						feet determined by	
			7" CASTING			reet determined by	
		1				738'	
				Total de	ptn	SV	
					n interval		
				(perfera	feet	to 845 ole, indicate which)	_ feet
					oo or open in	ore, indicate which,	
		No.	732			é	
			Name of the state				
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			TD 845'				
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						X.	
	-						
Tubi	ing size		lir	ned with	/	erial)	set in a
					packer		feet.
			model)				
		e any o	ther casing-tubi	ing seal).			
Othe	er Data			V			
1.			jection formation	>			
2.			or Pool (if app)				
3.			well drilled for			<u>∕</u> X No	
•	If no,	for wha	t purpose was th	ne well orig	inally drille	d? (RODUCTION)	
4.	Has the	well e	ver been perfora	ated in any o	other zone(s)	? List all such perfug(s) used) No	orated intervals
	2 g1 V	- 12099		20	La le	188	
			-			-	
5.	Cius Me	n donth	to and name of	any overlying	on and/or und	erlying oil or gas zo	mes (nonle) in
٠.			20NE			gas 20	1,0010, 111

BARBER	Occ. INC.	10	-050797	TURNER	FEDERAL	
			50.000		_	28E
WELL NO.	2322' FSL AND 2339 FUOTAGE LOCATION	ruc	SECTION	TU	DS WNSHIP	RANGE
Schen	matic			Tabular D	ata	
		Surfa	ace Casing			
				" "	emented with	sx
		HOTE	Size			
		Inter	rmediate Casi	ng		
		Size		" Ce	emented with	s
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		Hole	size			
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	7" CASING					
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		(pert	or ob	en-noie, indi	cate which)	
	765'				ý.	
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l	850' 70					
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hina eiza	lined	with				set in a
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(brai	nd and model)		pack	er at		feet
or describe	any other casing-tubing	seal)	•			*
ther Data						
. Name of	the injection formation	YA	337			
. Name of I	Field or Pool (if applic	able)	RUSSELL			
	a new well drilled for i			No		
	or what purpose was the			-	CHILTIDA	
. Has the	well ever been perforate	d in a	ny other zone	e(s)? List a	ll such perfo	rated interval
and give	plugging detail (sacks	or cem	ent or orlage	hind(a) nse	100	
. Give the	depth to and name of an	y over	lying and/or	underlying o	il or gas zon	es (pools) in

-				THE DATA		
011	ARBE	en Ou, Tore.	LEAS	50797	LULIVER TEDERA	
1						
WEL	L NU.	332' FNL AND 234	o rwc	SECTION	TUWNSIIIP	28E RANGE
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	Sch	nematic .			Tobular Data	
			Surface	Casing		
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					feet determined by	
	,					
			Interme	diate Casing		
	. 1				Cemented with	
					feet determined by _	
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			Size	7	Cemented with	100 sx.
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		(City			, · ·	
					45'	
		23 TUBLING	Injection	on interval	0.1-	
			(perfor	feet or open-	to 845 -hole, indicate which)	feet
	• •	716				
	-	(45)				
		FORMATION)			
		80	oo'			
						*
	· ,,				x.	
	1	850	21			
Tubi	nn size	2 ³ /8" lin	ned with	CEM	ENT	set in a
1001		YNES 2" X 4"4"		(ma	terial)	-
		and and model)		packer	at <u>800</u>	feet
(or	describ	e any other casing-tub	ing seal).			*
Othe	r Data		4			
1.	Name of	the injection formation	on YATES	5		
2.	Name of	Field or Pool (if app)	licable)	USSELL		×
3.	Is this	s a new well drilled for	injection?	/	/X No	
		for what purpose was th			ed? PRODUCTION	
4.	Hae the	e well ever been perfora	ted in any	other zone(s)? List all such perfo	rated intervals
	and giv	ve plugging detail (sac	s of cement	or bridge p	lug(s) used) NO	202.7013
5.		ne depth to and name of	any overlyi	ng and/or un	derlying oil or gas zor	nes (pools) in
	this ar	3000 - 109.				

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j, i						
	L NO.	FUOTAGE LOCATION	SECTION	N .	TUWNSIIIP	28E RANGE
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	Sch	ematic		Tobula	ır Data	
			Surface Casing			
	_			-	Cemented with	
					determined by	
	1				* **	
		1	Hole size			
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			Size	99	Cemented with	sx.
	. 1		TOC	feet	determined by _	
			Hole size			
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		7" CASTALO		7 "	Cempoted with	75 sx.
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			Hole size			
			Total depth _	UN 3		
			Injection inte			
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Tubi	ing size	lineo	i with			set in a
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		and and model)		packer at		feet
(or	describ	e any other casing-tubing	seal).			
Othe	er Data		* 1			
1.	Name of	the injection formation	TATES			
2.	Name of	Field or Pool (if applic	cable) Russe			1
3.	Is this	a new well drilled for i	injection? /7	Yes /X	No	
¥	If no,	for what purpose was the	well originally.	drilled?	CODUCTION	
4.	Has the and giv	well ever been perforate e plugging detail (sacks	ed in any other a of cement or bri	rone(s)? Lis idge plug(s)	t all such perfo	rated intervals
5.		e depth to and name of an ea. Nows	ny overlying and/	or underlyin	g oil or gas zon	es (pools) in

		CITON WELL DAILY		
140	ARBER DIC, INC.	LEASE	I LIRNER HEDER	AL
				28E
	8 1658' FNC AND 233	SECTION	TOWNSHIP	RANGE
	•			
	Schematic .		Tobular Data	
		Surface Casing		
		Size	_" Cemented with	SX.
			feet determined by	
		Hole size		
	1 1	HOTE SIZE		
	4 1	Intermediate Casing		
		Size	" Cemented with	sx.
		TOC	feet determined by	
		Hole size		
	7" CASING			
	· CIJETIO	Long string		
			" Cemented with	
	H I	TOC LUKAboun	feet determined by	CARLES CONTRACTOR OF THE CONTR
		Hole size		*
	1 1	Total depth 7		
	- 1 1 1 1 · · · · · · · · · · · · · · ·			
Miles de.		Injection interval		
THE STATE OF THE S		(99 feet	to 829 hole, indicate which)	feet
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	734'			
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	TD 83	50		
				,
	(d)			
Tubi	ing size lined	with		set in a
		(mat	erial)	each.
	(brand and model)	packer	at	feet
(or	describe any other casing-tubing	seal).		*
Othe	er Data			
	Name of the injection formation	YATES		
	Name of Field or Pool (if applic	-		
			/X/ No	
3.	Is this a new well drilled for i			
	If no, for what purpose was the	well originally drille	ed? TRODUCTION	
4.	Has the well ever been perforate	d in any other zone(s)	? List all such perf	orated intervals
	and give plugging detail (sacks	or cement or orrade by	log(s) useu) NO	
5.	Give the depth to and name of an	y overlying and/or unc	derlying oil or gas zo	nes (pools) in
	this area. NONE			

- BARBER OUT THE	(C-050797		SCAL
or march	LENSE		
WELL NO. FOOTAGE LOCATION	FLOC 13	TOWNSHIP	RANGE
Schematic	Surface Casing Size " TOC fee Hole size Intermediate Casing Size " TOC fee Hole size Long string Size Alat 7 " TOC (INKNOW) fee	Cemented with the determined by Cemented with the determined by th	sxsx
23g" TUBLING Gold 740'	Total depth (80) Injection interval 789 feet to (perforated or open-hole,		feet
FORMATION PACKER TSO' TD 825'		,	
Tubing size 23 lined	with PLASTIC (materia.	1)	set in a
APPON THESE Z"X4"	packer at _	750	feet
(brand and model) (or describe any other casing-tubing	seal).		*
Other Data			
1. Name of the injection formation	YATES		
2. Name of Field or Pool (if applic	0		16.
3. Is this a new well drilled for i		No	
If no, for what purpose was the		BOARCITON	
4. Has the well ever been perforate and give plugging detail (sacks	d in any other zone(s)? L of cement or bridge plug(s	ist all such perf) used)	orated intervals
5. Give the depth to and name of an this area. NONE	y overlying and/or underly	ing oil or gas zo	nes (pools) in

-B	ARBER	OTI.	INC.		LC-	050797	Tu.	ENEX FEDS	FRAC
WEL	L NU.	FUOT	AGE LOCA	ATION	7 1-56	SECTION		TUWNSHIP	RANGE
									•
	Sche	ematic					Tabula	r Data	
					Surface	e Casing			
	_	_					**	Camentad wi	ithsx.
									ру
					Hole si	ize			
						ediate Casir			
			- 7" CASI	106	Size _			Cemented wi	thsx.
					TOC		feet	determined b	У
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			- 23/8 TUR	52106					у
									у
						ze		742'	
					•			110	
						on interval			
					(perfer	sted or ope	et to	868 indicate which	feet
								•	
	•								
		1	742					(4)	
	- 4		- FORMAT	ION PACKER					2
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	~								
				868'	٠			4	
	ŧ	-		860					
		4	330 11				PEMENT		
Tubi	ng size		7.0	lined			material)		set in a
	Court	BERSO	J.	ZX7"		pack	er at	800	feet
(or	describe	e any o	ther cas	ing-tubing	seal).				4
	r Data								
		the in	iection	formation	YATE	5			
				(if applies	-				
							/ST	No	
				lled for i				No	
	If no,	for wha	t purpos	e was the i	well ori	ginally, dri	lled?	ROBUCTIA)
				-			/ \>		
4.	Has the	well e e plugg	ver been ing deta	perforate il (sacks	d in any of cemen	other zone t or bridge	(s)? Lis plug(s)	used) No	erforated intervals
	-						-		
5.	Give the	e depth	to and	name of an	y overly	ing and/or	underlyin	g oil or gas	zones (pools) in

· B	ARBE	e Oce	N.T.	CC-050797	. letrus FER	ERAL
וייוט	7					
WELL	NU.	FUO	TAGE LOCATION	/3 SECTION	20s TOWNSHIP	RANGE
	<u>Sch</u>	ematic			bular Data	
				Surface Casing		
				Size"		
			R	тос	feet determined by	
		1		Hole size		
		4	,	Intermediate Casing		
			*	Size		
9	•		All ANETS!	TOC	feet determined by	
	II.	-	7" CASTAGE	Hole size		
				Long string		
				Size7 "	Cemented with	50 94.
			_ 23/8 TUBLING	TOC UNKNOWN		
	1			Hole size 8"		
				Total depth		
			35			
		1 1	0	Injection interval		
₫.				(perforated or open-hol	le, indicate which)	feet
	4 1		- PACKER		,	
	•		'750'			
			75A'		16.	
			TD 809'	£		
					*	4
	4					
Tubin	g size	2	378 lined			set in a
	1	YNSS	ZX A'A	(mater	• 7	feet
	(br	and and		раскег ас		1660
(or d	lescrib	e any o	ther casing-tubing	seal).		-
	Data			. 1		
1. 1	ame of	f the in	jection formation	YATES		
2. 8	lame of	Field	or Pool (if applica	oble) Kusseu		
3. 1	s this	a new	well drilled for in	njection? / Yes /	⊠ No	
. 1	f no,	for wha	it purpose was the w	vell originally drilled?	Production	
_						
4. I	las the	e well e ve plugg	ever been perforated ing detail (sacks o	d in any other zone(s)? of cement or bridge plug	List all such perf (s) used) NO	orated intervals
-						
				overlying and/or under	lying oil or gas zo	nes (pools) in
t	this ar	rea.	NONE			

- BARBER OTE, INC.	10-050797 War	LS FEDERAL	
			20
S 990' FOL AND 330' FO	SECTION	TOWNSHIP	RANGE
•			
Schematic .		ar Data	
	Surface Casing		
B (B	Size"	Cemented with	sx.
	TOC fee	t determined by	
	Hole size		
	Intermediate Casing		
	Size	Cemented with	sx.
?" CASING	TOCfee		
	Hole size		
	Long string		
	5ize		
	TOC UNKNIMON fee		
JZ TUBING	Hole size		•
2/8 1010114	Total depth 768		
	Injection interval		
	feet to open-hole,	856	feet
1 1	or open-hole,	indicate which)	
768'			
		367	
- <u>P</u>			
FORMATION	Danker		
6 800,	· ·		200
*			
	1.		- 8
TD 856			
73.11	15 125.00		
	with (EMEN)	1)	set in a
(TIMES 2"X 4"4"	packer at _	600	feet
(or describe any other casing-tubing	seal).		*
Other Data			
1. Name of the injection formation	YATTES		
B-1 (16 11-			
		No	
If no, for what purpose was the		6	
it no, for what purpose was the	well originally, orilled:	I HUME I JON	
	d is see other rece(s)? Li	int all such parf	arated intervals
4. Has the well ever been perforate and give plugging detail (sacks)	of cement or bridge plug(s)	used) No	oraced intervals

5. Give the depth to and name of an	y overlying and/or underlyi	ing oil or gas zo	nes (pools) in
this area. NONE		*	

BARBE	a Ou Inc.	(0-050797	Walls FEDER	ZAC
WELL NO.	FOOTAGE LOCATION			
Sche	ematic .		Tabular Data " Cemented wit feet determined by	
•	7" CASTNO	Intermediate Casing Size TOC Hole size Long string	Cemented with	
		Hole size { Total depth Injection interval		,
	736			
	TD 828'	,	, N	*
ubing size	lined	with(ma	terial)	set in a
or describe ther Data . Name of	and and model) e any other casing-tubing the injection formation Field or Pool (if applic	YATES	at	feet
Is this If no,	a new well drilled for i for what purpose was the well ever been perforate e plugging detail (sacks	njection? /// Yes well originally drill d in any other zone(s)? List all such per	forated intervals
Give the	e depth to and name of an	y overlying and/or un	derlying oil or gas z	ones (pools) in

P	SARBE	con I	40	(0-0	50797 (IILLS FEDERAL	
							70-
WEL	L NU.	FUOTAGE	LOOS FE	SE	CTION	20S TUNNIIIP	RANGE
							×
	Sch	nematic .				lar Data	
				Surface C			
		1				Cemented with	
				TOC	fe	et determined by	
				Hole size			
				Intermedi	ate Casing		
				Size	**	Cemented with	SX.
						et determined by	
			711				
			-7" CASIBL				
				Long stri			
				Size	7 10	Cemented with	sx.
				TOC UN	KWAW!) fe	et determined by _	
					8"		*
		- 1		Total dept	th738'		
				Injection	interval		
		1		857	feet to	872	feet
	1	1		perfores	or open-hole	872 , indicate which)	,
			*				
		-	-738				
						•	
	-				*		
		*					
			2				
			-201			8.	
	1	-	70 813				
						*	
			2.5				
Tubi	ing siz		line	d with	(materia	1)	set in a
	7.		4-1)		packer at _		feet
(01		rand and mod	r casing-tubin	g seal).			*
	er Data						
		f the inject	tion formation	YATE			
			Pool (if appli	0			·
			drilled for			No.	3
					ally drilled?		
	11 110,	TOI WHAT PE	sipose mas tile	nozz ozigin		- PALIANI	
		11		-d i	han anno(a)2 I	ist all such part	anakad intervals
4.	Has th	e well ever	detail (sacks	of cement o	r bridge plug(s	ist all such perfo	orated intervals
5.	Give t	he depth to	and name of a	ny overlying	and/or underly	ing oil or gas zon	nes (pools) in
	this a	rea. NOI	VE				

BARBE		£0-050797	Walls FED.	
SI - IIA TON		LENSE		
WELL NO.	FUOTAGE LOCATION	SECTION SECTION	TUWNSHIP	RANGE
5-1				
Sch	nematic .		bular Data	
		Surface Casing		
		Size"		
		TOC		
		Hole size		
5	4	Intermediate Casing		
-	7" CASTING	Size		
	(CASTION	TOC		
		Hole size		
		Long string		
	23% TUBIAL	Size	Cemented with	ax
		TOC UNKNOWN	feet determined by _	
		Hole size 81		*
- 1		Total depth 73	631	
		Injection interval		
VIII		775 feet to	008	feet
	PACKER @	(perforated or open-ho)	le, indicate which)	
	(30)			
-	739'		,	
	- 70 810'			18
	*			
			•	•
	23611			
ubing size	line	d with(mater		set in a
Ceut	TESCON 2'X 7'	packer at	730	feet
	be any other casing-tubin	g seal).		
ther Data		- 1		
. Name of	f the injection formation	YATES		
. Name of	f Field or Pool (if appli	cable) RUSSEU		
. Is this	s a new well drilled for	injection? / Yes /	/X No	
If no,	for what purpose was the	well originally, drilled?	PRODUCTION	
. Has the	e well ever been perforat	ed in any other zone(s)?	List all such perfo	orated intervals
and giv	ve plugging detail (sacks	of cement or bridge plug	May need 100	
	La dauble to and according	ny overlying and/or under	alving oil as ass	200 (0001=)
	rea. NONE	ny overlying and/or under	TAING OIL OF Gas 200	ies (boots) in

· BARBER	DEC. Tosc.	40-050797	Was FED.	
WELL NO.	330 FSC - 330 FEC	SECTION	20s TUNSITIP	∂8 E RANGE
Scher	matic .	Surface Casing Size	Tabular Data " Cemented with feet determined by	
		Hole size	Cemented with feet determined by _	
	7" CASTA6		655	
	(55)		to ((() nole, indicate which)	feet
	70775			,
- 4			÷	*
	lined	with (mat	erial) at	set in a
Other Data	any other casing-tubing			
 Name of Is this 	Field or Pool (if applicate a new well drilled for interest or what purpose was the w	njection? 17 Yes	17 No d? Production	*
4. Has the and give	well ever been perforated plugging detail (sacks o	d in any other zone(s) of cement or bridge pl	? List all such perfo ug(s) used) No	orated intervals
5. Give the	depth to and name of any	overlying and/or und	derlying oil or gas zon	nes (pools) in

· BARBE	ER Ou,	Inc.	U-05	50797 W	lius Fea.	
					2)-	270 =
WELL NO.	FUOT	FSC AND 330' FE	SEC	TION	TUWNSIIIP	RANGE
		•				
Sch	hematic .				ar Data	
			Surface Ca			
						hsx.
			TOC	fee	t determined by	
	1		Hole size			
	11		Intermedia	te Casing		
			Size	99	Cemented with	sx.
		- 1				
7		- 7" CASING				
					,	
		*	Long strin			
		*				12S_sx.
		236 TUBTING				
		<i>y</i>	Hole size	812" 70	754 8" TO	754 70 784
			Total dept	662		190
			Injection :	interval		
			in the second se		784	feet
			(postale)	feet to	indicate which)	_ 1660
		×				
		(162				
					*	
		~				
	1	PERATON		· ·		
		- 120,				
		, (30				
		*				
	1	TD 790			,	•
	2				_	
Tubing size	e _ 27	lined	with	CEMEN (material)	set in a
Coll	BBE RSG	2"X7"		packer at		feet
(b.	rand and	model)				
		ther casing-tubing	seal).			
Other Data			Vanne			
		jection formation	-			
		or Pool (if applic				
		well drilled for i			No Dans	
If no,	for what	t purpose was the	well origina	lly drilled?	ROBURTON	
4. Has th	e well ev	ver been perforate	ed in any oth	ner zone(s)? Li	st all such per	forated intervals
and gi	ve pluggi	ing detail (sacks	or cement of	priode bind(a)	used) NO	
					-	
-						
	he depth	to and name of ar	y overlying	and/or underlyi	ng oil or gas z	ones (pools) in

BARREL	Dec Inc.	(C-050797	Wills Feo.	
WELL NO.	FOOTAGE LOCATION		20 S TURSHITP	
Schen	7"CASTING		" Cemented with feet determined by Cemented with feet determined by Cemented with feet determined by	sx. sxsx.
	L78	Injection interval feet to or open-ho		_ feet
	nd and model) any other casing-tubir	(mate		set in a
. Name of	the injection formation Field or Pool (if appl a new well drilled for or what purpose was the	icable) Russell	No ? PRODUCTION	
. Has the and give	well ever been perfora plugging detail (sacks	ted in any other zone(s)? s of cement or bridge plu	List all such per g(s) used)	forated interval
. Give the		any overlying and/or unde	rlying oil or gas z	ones (pools) in

· BARZER	Etc. Inc	(0-0	50797 U	Stus FED.	
WELL NO.	338' FSL + 35 FUOTAGE LOCATION	ELNJE			RANGE.
	T" CASTN4	Surface Ca Size TOC Hole size Intermedia Size TOC Hole size Long strin Size TOC Hole size Tocal deption	fee te Casing fee Tabul fee te Casing fee Alowa fee 872	Cemented with t determined by	sxsxsxsxsxsxsx
	TO 790'				
					,
	nd and model) any other casing-tu		(material packer at)	set in a
Other Data 1. Name of 2. Name of 3. Is this	the injection format Field or Pool (if ap a new well drilled f or what purpose was	ion ATE plicable) R or injection? 1	T Yes 🗵	No	
4. Has the and give	well ever been perfo plugging detail (sa	rated in any oth cks of cement or	ner zone(s)? Li bridge plug(s)	st all such perfo used) No	orated intervals
5. Give the	depth to and name o	f any overlying	and/or underlyi	ng oil or gas zor	nes (pools) in

Schematic Tabular Data	BARRER !	Dea, Ide	(C-05079	17 WI	us FeD.	
Schematic Surface Casing						-28 r
Surface Cosing Size Cemented with	VELL NO.	FUOTAGE LOCATION	SECTI	ON	TOWNSIIIP	
Surface Casing Size	Schem	atic		Tabul	ar Data	
TOC			Surface Casi	ng	W. I.a.	
TOC	10		Size	***	Cemented with	sx
Intermediate Casing Size " Cemented with	1					
Size			Hole size _			
Hole size Long string Size 7 " Cemented with ISO TOC UNKNOWN Feet determined by Hole size 8/4" Total depth 773' Injection interval SSA feet to 849 feet (passard or open-hole, indicate which) Feet (passard or open-hole, indicate which) Feet TOO' (passard or open-hole, indicate which) Feet TOO' Name of the injection formation Mare sone of the injection formation of the injection formati			Intermediate	Casing		
Hole size			Size	99	Cemented with	s
Long string Size		7" CASING	TOC	feet	t determined by	
Size 7 " Cemented with 150 TOC UNIVERSITY Feet determined by Hole size 8½" Total depth 776 Injection interval 839 feet to 849 Feet (material) feet (material) packer at feet (brand and model) packer at feet Name of the injection formation 1485 Name of Field or Pool (if applicable) 15 this a new well drilled for injection? 7 Yes 80 If no, for what purpose was the well originally drilled? 15 packer at such perforated intervant give plugging detail (sacks of cement or bridge plug(s) used) 16 packer at such perforated intervant give plugging detail (sacks of cement or bridge plug(s) used) 16 packer at sand give plugging detail (sacks of cement or bridge plug(s) used)	8		Hole size _		,	
TOC			Long string			
Hole size			Size	7 "	Cemented with	150 s
Injection interval SSA feat to SAA	· - 1 - 1		TOC UNKA	social feet	determined by	
Injection interval SST feet to S47 feet			Hole size _	12/8		4
bing size lined with set in a			Total depth	772'		
bing sizelined with			Injection in	terval		
bing size lined with			829	feet to _	849	feet
bing sizelined with			(personated)	or open-hole,	indicate which)	
bing sizelined with	•					
bing sizelined with						
bing sizelined with				œ.		2
bing sizelined with						
bing sizelined with						
bing sizelined with		TN 850	···		8.	47
(brand and model) r describe any other casing-tubing seal). Name of the injection formation						
(brand and model) r describe any other casing-tubing seal). Name of the injection formation	ning size	lineo	i with			set in a
(brand and model) r describe any other casing-tubing seal). Name of the injection formation	_)	foot
Name of the injection formation				packer at		1660
Name of the injection formation TATES Name of Field or Pool (if applicable) RUSSEU Is this a new well drilled for injection? 17 Yes 18 No If no, for what purpose was the well originally drilled? Production Has the well ever been perforated in any other zone(s)? List all such perforated intervand give plugging detail (sacks of cement or bridge plug(s) used)	*	any other casing-tubing	g seal).			
Name of Field or Pool (if applicable) RUSSEU Is this a new well drilled for injection? /7 Yes / No If no, for what purpose was the well originally drilled? Production Has the well ever been perforated in any other zone(s)? List all such perforated intervand give plugging detail (sacks of cement or bridge plug(s) used)			Yman			
Is this a new well drilled for injection? // Yes /X No If no, for what purpose was the well originally drilled? Production Has the well ever been perforated in any other zone(s)? List all such perforated intervand give plugging detail (sacks of cement or bridge plug(s) used)			~	F//		
Has the well ever been perforated in any other zone(s)? List all such perforated intervand give plugging detail (sacks of cement or bridge plug(s) used)					No	
and give plugging detail (sacks of cement or bridge plug(s) used) NO					`	
	Has the w	ell ever been perforate plugging detail (sacks	ed in any other of cement or b	zone(s)? Lie pridge plug(s)	st all such performed used)	orated interval
	-					
Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) i				. /		

- BARRER	Ou, Inc	(C-050797)	ultus FED.	
WELL NO.	1656 FNC & 1665 FE	13	205	28 E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
	ematic 7" CASING		Cemented with et determined by	
	7291 TD 856	Right Signature of the state of	indicate which)	feet
Tubing size	lined	with(materia	1)	set in a
	and and made)	packer at _		feet
	and and model) e any other casing-tubing	O		
	the injection formation	YATES		
2. Name of	Field or Pool (if applica	able) Kussell		
	a new well drilled for in		No	
If no,	for what purpose was the	well originally drilled? _	1200UCTION	-
4. Has the and giv	well ever been perforated e plugging detail (sacks d	d in any other zone(s)? L of cement or bridge plug(s	ist all such perfo	orated intervals
5. Give th	e depth to and name of any	y overlying and/or underly	ing oil or gas zor	nes (pools) in

BARBER ET, INC.	CC-05079	77 WILLS FED	
WELL NO. FOOTAGE LOCATION	IN SECTION	TOWNSHIP	RANGE
			*
,			
Schematic		Tobular Data	
	Surface Casing		
	Size	" Cemented with	sx.
	TOC	feet determined by	
	*		
	Intermediate Cas		
	Size	Cemented with	sx.
	TOC	feet determined by	
65/8 CA	Hole size		
678 CA	Long string		
		Cemented with	100)
		feet determined by	,
238" TUBI	Hole size		9
	Total depth	世別は	
	Injection interv	val	
	850	feet to 873	feet
	(perferenced or o	feet to 873 ppen-hole, indicate which)	_
814	X		
		×	
<u>.</u>			
	FORMATION PACKER @ 845'		
	PACKEL		
TO	888'	N .	*
Tubing size 238	lined with	I X	set in a
		(material)	foot
(brand and model)	41/411 pa	cker at 070	feet
(or describe any other casing	-tubing seal).		•
Other Data	7.5		
1. Name of the injection for	mation (ATES		
2. Name of Field or Pool (if	applicable) RUSSE	EU	0
3. Is this a new well drille	d for injection? /7 Y	es /X No	
If no, for what purpose w		rilled? PRODUCTION	
is miss perpose in			
A Use Abe well over been no	rforsted in any other zo	ne(s)? List all such per	orated intervals
and give plugging detail	(sacks of cement or brid	ige plug(s) used)	2110021013
5. Give the depth to and nam	e of any overlying and/o	r underlying oil or gas zo	ones (pools) in
this area. NONE		· · · · · · · · · · · · · · · · · · ·	

. 7	SARBER	Da	JNC.	CC-050797	Walls CEASE	
WE	LL NU.	1305	TAGE LOCATION	SECTION SECTION	TUWNSHIP	28E RANGE
	Sche	ematic	*		Tobular Data	
	***********		•	Surface Casing		
					" Cemented wi	
				TOC	feet determined b	у
				Hole size		
				Intermediate Casing	1	
					Cemented wil	h av.
					feet determined by	
				Hole size		
				note size		
			7" CASING	Long string		
				Size	Cemented wit	h ax.
	- 1	A		TOC UNKHOUN	feet determined by	
	120			Hole size 8	2"	*
		- 18		Total depth	823'	
				10		
		1		Injection interval	611	
				(perforated or open-	t to 846	feet
			œ		•	
		- 4	823'			
		+				
						a a
	.1	į,	1528 AT	(47)		ж.
			ä			
		* *				300
		r.		4	8.	
	-					
	¥.		* *= = *			set in a
Tub	ing size		lined	with (ma	terial)	SEC 111 8
	(1.==	nd and	model)	packer	at	feet
(or			ther casing-tubing	seal).		ě
Othe	er Data					
-		the in	jection formation _	CATES		
				ble) RUSSEU		
				jection? /7 Yes		
3.						
	If no, f	or wha	t purpose was the w	ell originally, drill	ed! WOMENTON	
4.	Has the	well e	ver been perforated	in any other zone(s f cement or bridge n)? List all such per lug(s) used)	forated intervals
	and give	, progg				
					-	
		×		3 - 5	4-11-1	
5.	Give the			overlying and/or un	derlying oil or gas z	ones (pools) in
	36	3		9	e e e e e e e e e e e e e e e e e e e	The part of the same of the sa

. 7	SARBER	Da	JNC.	CC-050797	Walls CEASE	
WE	LL NU.	1305	TAGE LOCATION	SECTION SECTION	TUWNSHIP	28E RANGE
	Sche	ematic	*		Tobular Data	
	***********		•	Surface Casing		
					" Cemented wi	
				TOC	feet determined b	у
				Hole size		
				Intermediate Casing	1	
					Cemented wil	h av.
					feet determined by	
				Hole size		
				note size		
			7" CASING	Long string		
				Size	Cemented wit	h ax.
	- 1	A		TOC UNKHOUN	feet determined by	
	ian ian			Hole size 8	2"	*
		- 18		Total depth	823'	
				10		
		1		Injection interval	611	
				(perforated or open-	t to 846	feet
			œ		•	
		- 4	823'			
		+				
						a a
	.1	į,	1528 AT	(47)		ж.
			ä			
		* *				300
		r.		4	8.	
	-					
	¥.		* *= = *			set in a
Tub	ing size		lined	with (ma	terial)	SEC 111 8
	(1.==	nd and	model)	packer	at	feet
(or			ther casing-tubing	seal).		ě
Othe	er Data					
-		the in	jection formation _	CATES		
				ble) RUSSEU		
				jection? /7 Yes		
3.						
	If no, f	or wha	t purpose was the w	ell originally, drill	ed! WOMENTON	
4.	Has the	well e	ver been perforated	in any other zone(s f cement or bridge n)? List all such per lug(s) used)	forated intervals
	and give	, progg				
					-	
		×		3 - 5	4-11-1	
5.	Give the			overlying and/or un	derlying oil or gas z	ones (pools) in
	36	3		9	e e e e e e e e e e e e e e e e e e e	The part of the same of the sa

INJECTION WELL DATA SHEET

- BARRE PELTAN. (COSOTAT WOUS FED.

OPTIMATOR

OPTIMATOR

ILLASE

WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Surface Casing

Surface Casing Size _____ " Cemented with _____sx. feet determined by Hole size Intermediate Casing Cemented with _____sx. feet determined by Hole size · 4" CASING Long string Size ___ Cemented with 450 sx. TOC CUKALONIN feet determined by _____ Hole size ___ 5½" Total depth 8271 23/8 TUBING Injection interval (perforated or examples, indicate which) PREKER @ 1085 827 TO 840' ___ lined with ____ CEMENT Z'X 4" packer at _ (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation _______YATES 2. Name of Field or Pool (if applicable) KUSSEU Is this a new well drilled for injection? /7 Yes 1X7 No If no, for what purpose was the well originally drilled? PRODUCTI Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NEWE

5.	SARRER	- OTI, THE	CC-050797	WELLS FER).
					20
	L NO.	2310' FUL + 990'	SECTION	20S TUNNITP	RANGE
-	Sche	matic .		Tabular Data	
			Surface Casing		
		7"	Size	" Cemented wit	hsx.
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

March 24, 1982

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Barber Oil, Inc. P.O. Box 1658 Carlsbad, NM 88220

ATTENTION: Robert S. Light

RE: Exception to Rule 705-A for Injection Wells

Dear Sir:

Pursuant to your letter of March 4, 1982, requesting exception to Rule 705-A for your injection wells; the Oil Conservation Division (OCD) needs further information to be submitted. The information requested is as follows:

WELL DATA

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:

- (a) Lease name: Well No.; location by Section, Township, and Range; and footage location within the section.
- (b) Each casing string used with its size and weight setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (c) A description of the tubing to be used including its size, lining material, and setting depth.
- (d) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.
- (e) The name of the injection formation and, if applicable, the field or pool name. Also list each formation penetrated and tops thereof.
- (f) The injection interval and whether it is perforated or open-hole.
- (g) State if the well was drilled for injection or, if not, the original purpose of the well.
- (h) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

- (i) 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.
- (j) Attach appropriate logs and test data that were run that would substantiate mechanical integrity.
 - (k) Submit the date when each injection well was shut-in.
 - (1) Specify for each well, anticipated dates for resuming re-injection.
 - (m) Relate each injection well to corresponding Division Orders, Case Numbers, and administrative approval (WFX, PMX, SWD, and Storage), where applicable.

Enclosed is a Memo concerning Rule 705-A which might help. If you have any questions regarding this matter, please call me at (505) 827-2533.

Sincerely,

Oscar Simpson Water Resource Specialist

OS/dp

cc: Hobbs District Office
Artesia District Office

BARBER OIL, INC.

111 West Mermod Post Office Box 1658 CARLSBAD, NEW MEXICO 88220 (505) 887-2566

March 4, 1982

New Mexico Oil Conservation Division Energy & Minerals Department P. O. Box 2088 Santa Fe, NM 87501

Attn: Joe D. Ramey

Re: Federal Oil & Gas Lease LC-050797 - Russell Pool Eddy County, New Mexico Sec. 12, T20S, R28E N.M.P.M.

Gentlemen:

Under your Memo of September 30, 1981 as provided under Division Rule 705A whereby no injection well may be temporarily abandoned for more than six months; this company hereby requests an exception to Rule 705A on the following wells:

Under Crosby Federal - Well Nos. 1,2, &4 Under Turner Federal - Well Nos. 2,3,6,12,13,15,18,21, & 22 Under Wills Federal - Well Nos. 2,5,6,8,10,14,15,17,18,19,21,23,25,26,27,29, 30,33,34,35,36,37,39,41,42, & 45

The above wells are considered to be viable injection wells, not taking water at this time, yet valuble to a tertiary recovery program in the not to distant future. We feel these wells in no way damage the underground sources of drinking water as there is no drinking water in this interval in this area.

I enclose a copy of a letter from our consulting engineering firm, Stephens Engineering, under the signature of Joe L. Johnson, Jr. where he supports this request.

As captioned above this is a Federal oil & gas lease and comes under your jurisdiction through a ruling in the Federal Register/Vol. 47, No. 25/Friday, February 5, 1982/40CFR Part 123 and made effective that same date.

We would appreciate the OCD's concurrence with our request to retain these wells for a future recovery program.

Very truly yours,

SANTA FE

CC: George H. Hunker, Jr.

Michael Stubblefield, OCD-Artesia

Joe L. Johnson, Jr.

Robert S. Light

Encl: 1

TELEPHONE - 817 - 723-2166



POST OFFICE BOX - 2249

WICHITA FALLS, TEXAS 76307

December 30, 1981

CBarbar Oil, Inc. P. O. Box 1658

Carlsbad, New Mexico 88220

Attn: Mr. Bob Light

Re: Injection Well Status

Barber Oil, Inc. Russell Pool Project Eddy County, New Mexico

Dear Mr. Light:

Reference is made to our conversation concerning the necessity to plug and abandon several of the inactive injection wells in the Barber Oil, Inc., Russell Pool Water Flood, Eddy County, New Mexico.

It is our understanding that the State of New Mexico requires that an injection well be plugged after a six month shutin period. There are also other means in which the well can be maintained, these include returning the well to active operation, filing a workover or plugging plan, and/or filing a request for an exception to Rule 705A with the Division Director in Santa Fe.

We are of the opinion that this project is a prime prospect for tertiary development in the not too distant future. Its shallow depth and remaining oil in place are extremely important in the use of this anticipated process. In view of this, it is extremely important that all wells be maintained and not plugged and abandoned since this would require a rather large expenditure in redrilling should such a process be undertaken in the future. For these reasons, we are of the opinion that a request for an exception to Rule 705A be filed with the Division Director in Santa Fe at the earliest possible date. We remain of the opinion that this project would be an excellent prospect for tertiary development but feel that the loss of any well in the project

area would make the installation of a tertiary project more difficult and therefore possibly force a long delay period for the installation of such a project.

Should there be any questions, please do not hesitate to contact us.

Yours very truly, STEPHENS ENGINEERING

Joe L. Johnson, Jr.

JLJjr/dk