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[1]	<b>TYPE OF A</b> [A]	PPLICATION - Ch Location - Spacing	g Unit - Directi	ich Apply ional Drilli I SD	for [A] ing		
	Chec [B]	k One Only for [B] a Commingling - St DHC CT	orage - Measur	rement PC	OLS	□ OLM	
	[C]	Injection - Dispos WFX PM			nhanced Oi EOR	l Recovery	
[2]	NOTIFICA	TION REQUIRED	TO: - Check ]	Those Whi	ch Apply, c	or 🖸 Does 1	Not Apply
[~]	[A]	🛛 Working, Roya	lty or Overridi	ng Royalty	y Interest O	wners	
	[B]	Offset Operator	rs, Leaseholder	rs or Surfac	ce Owner		
	[C]	M Application is	One Which Re	quires Put	lished Leg	al Notice	
	[D]	Notification an U.S. Bureau of Land	d/or Concurren d Management - Comr	nt Approva nissioner of Put	al by BLM Nic Lands, State	or SLO Land Office	
	<b>[E]</b>	S For all of the a	bove, Proof of	Notificatio	on or Public	cation is At	tached, and/or,
	<b>[F]</b>	U Waivers are At	tached				
	INFORMA						

d approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

James Blount Print or Type Name

Blow Sr. Operations Engineer 11/5/99 Title Date

15053939 OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505 **\_** 

# APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE:       Secondary Recovery       Pressure Maintenance       X       Disposal       Storage         Application qualifies for administrative approval?       X       Yes       No				
Π.	OPERATOR: Concho Resources Inc.				
	ADDRESS: 110 W. Louisiana Ste 410; Midland, Tx 79701				
	CONTACT PARTY:				
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:				
۲V.	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:				
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>				
*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 waters 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.				
<b>IX</b> .	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).				
*X[.	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.				
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 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: James Blount Sr. Operations Engineer				
	SIGNATURE: DATE: 11/5/99				

\* If the information required under Sections 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:

# INJECTION WELL DATA SHEET

-0	OPERATOR	LEASE	LEASE			
C	oncho Resources	Diamondtail '23' Federal				
	WELL NO. FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE		
	#2 1980' FNL & 660' FEL	23	238	32E		
	Schematic	Tabula	Tabular Data			
		Surface Casing				
		Size <u>13 3/8</u> "	Cemented with	1 <u>500</u> sx.		
	13% 65%	TOC <u>surface</u> feet dete	rmined by <u>circu</u>	lation		
		Hole size <u>17 1/2"</u>				
Toc 6- 2000		Intermediate Casing				
	é é é	Size <u>8.5/8</u> "	Cemented with	1 <u>2285</u> sx.		
	· · · · · · · · · · · · · · · · · · ·	TOC <u>surface</u> feet dete	rmined by <u>circu</u>	lation		
	1A A A A A A A A A A A A A A A A A A A	Hole size <u>12 ¼</u> "				
		Long string				
		Size <u>5 ½</u> "	Cemented with	1 <u>1430</u> sx.		
		TOC <u>2000</u> feet determ				
		Hole size $77/8$ "				
	\$950 6065	Total depth <u>11,200</u>				
		Injection interval				
		<u>5950</u> feet to <u>606</u>	5 feet			
U 188 (= 7/1	a' j	(perforated or open-hole				
	71/9-25	-				
10 7506						
CIBRE 10	750'					
	# #10,776-96					
	■ 3 ½ (0 11,200					
т	Tubing size <u>2 7/8"</u> lined with <u>pl</u>	astic coating set	in a			
•	<u>5 1/2" IPC Lok-set</u> pac					
-						
C	Other Data					
	Name of the injection formation	Delaware Cherry Canvon				
-	2. Name of Field or Pool (if applicab					
	3. Is this a new well drilled for inject					
5	If no, for what purpose was the we		pring oil produce	r		
	If no, for what purpose was are we		<u>,</u>	•		
	4. Has the well ever been perforated	in any other zone(s)? I ist all such	nerforated interv	vals and give		
4	plugging detail (sacks of cement o	r bridge plug(s) used <u>10.776</u>	-96' plugged w/C			
	10,750 w/35' of cmt. 7119-25' ph	ugged w/CIBP @ 7100' w/35' of a	<u>emt</u>			
5	5. Give the depth to and name of any	overlying and/or underlying oil a	nd gas zones (poo	ols) in this		
	area DELAWARE BRUSHY	CANYON 7800'				
	Jean Drawfi		·			
		<u>.</u>				

## AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

#### I, KATHI BEARDEN

#### Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

1

of \_\_\_\_\_

weeks.

\_ 1999

- 1999

Beginning with the issue dated

October 31 1999

and ending with the issue dated

October 31

Publisher Sworn and subscribed to before

me this <u>1st</u> day of

November

enson

Notary Public.

My Commission expires October 18, 2000 (Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE OCTOBER 31, 1999 NOTICE OF INTENT TO INJECT PRODUCED WATER CONCHO RESOURCES INC. 110 W. LOUISIANNA, SUITE 410 MIDLAND, TX 79701 **Contact Person:** Terri Stathem, Production Analyst (915) 683-7443 The purpose is to inject produced water into the Delaware Cherry Canyon formation at an interval of 5950-6065' in Concho Resources Inc.'s Diamondtail '23' Federal No. 2 well. The well is located 1980' FNL & 660' FEL, Sec. 23, T-23S, R-32E, Lea County, New Mexico. The maximum injection rate expected is 2500 BWPD. The maximum injection pressure expected 2500 psi. All interest parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco St., Santa Fe, New Mexico 87505 within 15 days. #16957

01104894000 01536920

Concho Resources Inc. 110 W. Louisiana, Suite 410 MIDLAND, TX 79701

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<b>r</b> 1%6)		Dente 14 62	Horogin Himerigree	Conoco Contraction and Guif 2	But Fanken Child	· 8

# Wells in Area of Review Application for Authorization to Inject Concho Resources, Inc.

## Diamondtail 24A Fed #1

Location: 1980' FNL & 330' FWL Type: Oil

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Sec 24, T23S, R32E Date Drilled: 9/96 Total Depth: 10,300'

Casing Record: Size	Depth	Sacks Cement
13 3/8"	565'	550
8 5/8"	4840'	1820
5 1/2"	10,300'	880

#### Completion:

10/96	Perforated 10,052-82'.
10/96	Frac'ed well w/94,000# 20/40 sand. Put well on pump.
5/97	Perforated 8560-74'. Frac'ed w/39,540# 20/40 sand. Put on pump.

## Diamondtail 24 Fed #1

Sec 24, T23S, R32E Location: 1980' FSL & 660' FWL Date Drilled: 4/96 Type: Oil Total Depth: 10,300' Casing Record: Sacks Cement Depth Size 650 618' 13 3/8" 1750 4785' 8 5/8" 2040 10,300' 5 1/2"

## Completion:

4/96	Perforated 10,029-82'.
5/96	Frac'ed well w/66,000# 20/40 sand. Put well on pump.
6/96	Perforated 8994-9030'. Frac'ed w/88,500# 20/40 sand. Put on pump.
8/96	Perforated 8247-53'. Frac'ed w/16,000# 16/30 sand. Put on pump.
8/96	Squeezed perfs @ 8247-53' w/75 sx cmt
8/96	Reopened 8994-10,082' & put on pump.

#### Application for Authorization to Inject Concho Resources, Inc.

#### VII. Proposed Operation

- 1. Proposed average daily rate is 1500 BWPD with a maximum of 2500 BWPD @ an injection rate of 3000 BPD.
- 2. The SWD will be a closed system.
- 3. The average injection pressure is expected to be 1000 psi with a max of 2500 psi.
- 4. The injection water will be from the Delaware Brushy Canyon. An analysis is attached.
- VIII. Geologic Data

Injection zone is a sandstone in the Delaware Cherry Canyon from 5950-6065'. The top of the Cherry Canyon is 5805'.

The lowest freshwater source in the area is the Ogalala at 600'.

- IX. A 2000 gal acid break down is the only stimulation anticipated.
- X. Well logs have been previously filed.
- XI. A chemical analysis is attached from a water well located in Sec
- XII. I have examined available geologic and engineering data and find no evidence of open faults or hydrologic connection between the proposed Delaware injection interval and any underground sources of drinking water.

James Blount Sr. Operations Engineer

XIII. Attached are the published notice in the Hobbs American and Notice of Receipt from offset operators.

Form 3160-5 (June 1990)	DEPARTMEI	TED STATES NT OF THE INTERIOR	FORM APPROV ED Budget Bureau No. 1004-0135 Expires: March 31, 1993		
	BUREAU OF	5. Lease Designation and Serial No. NMNM96239			
Do not use	SUNDRY NOTICES e this form for proposals to dr Use "APPLICATION FO	6. If Indian, Allottee or Tribe Name VOIT.			
		IN TRIPLICATE	7. If Unit or CA, Agreement Designation		
1. Type of Well Oil Well	Gas Well X Other		8. Well Name and No.		
2. Name of Op			Diamondtail '23' Fed eral #2		
	RESOURCES INC.		9. API Well No.		
3. Address and	Telephone No. DUISIANA STE 410; MIDLAND, TX	70701 (015) 683 7443	30025-33653		
	Veil (Footage, Sec., T., R., M., or Survey De		10. Field and Pool, or Exploratory Area DELAWARE BRUSHY CANYON		
	& 660' FEL, SEC. 23, T-23S, R-32E		11. County or Parish, State		
			Tea		
			- <del>EBD</del> Y, NM		
12. (	CHECK APPROPRIATE BOX(s	) TO INDICATE NATURE OF NOTICE, REPOR	T, OR OTHER DATA		
	TYPE OF SUBMISSION	TYPE OF ACTI	ON		
	Notice of Intent	Abandonment	Change of Plans		
		Recompletion	New Construction		
	Subsequent Report	Plugging Back	Non-Routine Fracturing		
		Casing Repair	Water Shut-Off		
	Final Abandonment Notice	Altering Casing	Conversion to Injection		
		Other	Dispose Water     Note: Report results of multiple completion on Well		
		<u> </u>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		
directionally	y drilled, give subsurface locations and meas RESOURCES INC. RESPECTFUL	tate all pertinet details, and give pertinent dates, including estimated ured and true vertical depths for all markders and zones pertinent to Y REQUESTS APPROVAL TO CONVERT THE ABON	o this work.)*		
	L WAS ORGINALLY DRILLED AS A D 20 B0, 30 BW PER DAY @ COM	A PRODUCER IN THE BONE SPRING FORMATION V IPLETION.	W PERFS @ 10776-96'. THE WELL		
FROM TH	E DELAWARE FORMATION (SEE S CES INC REQUESTS APPROVAL T	ED AN ATTEMPT TO PLUG BACK THIS WELL FROM SUNDRY DATED 10/26/99). IF THIS IS NOT A SUCC O CONVERT THE WELL TO WATER DISPOSAL AC	ESSFUL PLUGBACK CONCHO		
		T. (ABANDONING THE DELAWARE FORMATION).	and the second		
	V/ 4 SPF @ 5954-6012 & 6046-64 ( F W/ 4000 GALS 7-1/2% NEFE	304 SHOTS).	Appos		
<ul> <li>2. PERF W/ 4 SPF @ 3934-00 12 &amp; 0040-04 (304 SHOTS).</li> <li>3. ACIDIZE W/ 4000 GALS 7-1/2% NEFE.</li> <li>4. PERFORM INJECTION TEST.</li> <li>5. RUN PKR &amp; 2-7/8" IPC TBG. CIRC PKR FLUID &amp; SET PKR @ 5900'.</li> <li>6. CONNECT INJECTION EQUIPMENT.</li> </ul>					
5. RUN PKR & 2-7/8" IPC TBG. CIRC PKR FLUID & SET PKR @ 5900'.					
6. CONNECT INJECTION EQUIPMENT.					
		BUSITIN TO DRE	- 1999 T		
		APERCIAL BY STATE	ROSWELAND MAN		
	$\Lambda$	NMOCD	BUREAU OF LAND MANAGEMENT		
14. I hereby ge	tify that the foregoing is true and correct		and a second		
Signed	ALL HAUNAL	Title PRODUCTION ANALYST	Date 10/28/99		
	Federal of State) office use)				
Approved by _		Title	Date		
Conditions of a	approval, if any:				

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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.