	UNITL STATES	ieaic: S Nited	0 011 (Sec.e.) 1.1625 (S. P			FORM APPROVED OMB No. 1004-0135 Expires July 31, 1996
ovember 1994) E	DEPARTMENT OF THE D BUREAU OF LAND MANA	GEME	IOR INT		5. Lease S	
	Y NOTICES AND REPO				NM 8	8163
Do not use thi	is form for proposals to ell. Use Form 3160-3 (APL	drill o	or to re-enter a	nn s.	6. If India	n, Allottee or Tribe Name
SUBMIT IN TRI	IPLICATE - Other Instru	uction	ns on reverse	side	7. If Unit	or CA/Agreement, Name and/or No.
Type of Well	Other SI					ame and No.
Name of Operator Echo Production,	Inc.				9. API W	on Federal <u>#3</u> ellNo. 25-34817
a. Address PO Box 1210, Graha	am, TX 76450	1	Phone No. (includ (940) 549-3		10. Field a	nd Pool, or Exploratory Area nond Tail Delaware
. Location of Well (Footage, Sec.	., T., R., M., or Survey Description	n)				or Parish, State
1880' FSL & 1880'	FEL Sec 22 T 23S	R 32	2E			County, NM
12. CHECK AF	PPROPRIATE BOX(ES) T	O INC	DICATE NATU	RE OF NOTICE, F	REPORT, C	R OTHER DATA
TYPE OF SUBMISSION			TY	PE OF ACTION		
52)	Acidize	🖸 r	Deepen	Production (Sta	rt/Resume)	Water Shut-Off
Notice of Intent	Alter Casing	📮 F	Fracture Treat	Reclamation		Well Integrity
Subsequent Report	Casing Repair		New Construction	Recomplete		Other
Final Abandonment Notice	Change Plans Convert to Injection		Plug and Abandon Plug Back	Temporarily A		
	13 3/8" csg @ 615' @ 8828' cmt to 683	4'.	Perf 7086-9	98', 7122-24'	, 7534-4	to surface, 4 ½" cs 11', 7578-86' & 7604-
	D E 7040 (31 C 00	74-8	0' shut of:		' Perf	
	8558-70' shut off	w/BP		£ w/BP @ 7709		8490-8508', 8534-48'
Propose to: Set CIB into th Run 2 3	8558-70' shut off P @ 7050' w/ 2 sx e 8 5/8" / 4 ½" an /8" PC tubing w/ p	cmt. nulu acke	@ 8152'. Perf sq. 1 s. Perf 5260 r to <u>+</u> 5220	holes @ 5700' -5302'&5504-24'&	and cir tr <u>eat</u> w/3	8490-8508', 8534-48' cc cmt a minimum of 2 000 gal 7½% HCl Set CIBP (
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Propose to: Set CIB into the Run 2 3 Copy of Form C-108 BLM Bond File No.: CERTIFIED MAIL: 7000 14. Ihereby certify that the forego Name (Printed/Typed) Tom Golden Signature	8558-70' shut off P @ 7050' w/ 2 sx e 8 5/8" / 4 ½" an /8" PC tubing w/ p and supporting dat NM 2692 O 0600 0028 5026 09 ping is true and correct	cmt. nulu acke a is 965	<pre>@ 8152'. Perf sq. 1 s. Perf 5260 r to +5220 enclosed. Title Date</pre>	holes @ 5700' -5302'&5504-24'& ' for disposa Operations Ma 6/12/01	and cir tr <u>eat w/3</u> 1 of pr 1 of pr PE	8490-8508', 8534-48' ac cmt a minimum of 2 1000 gal 7½% HCl Set CIBP (2000 gal 7½% HCl Set CIBP (2001 gal 7½% HCl Set CIBP (2000 gal 7½% HCl Set CIBP (
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APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE:Secondary RecoveryPressure Maintenance DisposalStorage
	Application qualifies for administrative approval? <u>×</u> Yes <u>No</u>
II.	OPERATOR:Echo Production, Inc.
	ADDRESS: PO Box 1210, Graham, Texas 76450
	CONTACT PARTY: Tom Golden / Echo Production, Inc. PHONE: (940) 549-3292
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?YesNo If yes, give the Division order number authorizing the project:No
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 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.).
*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.
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.
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:TITLE:Operations Manager
	SIGNATURE: Jon Sold DATE: 4/25/01
*	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:

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de I	INJECTION WELL DATA SHEET	
PERATOR: Echo Production, Inc.		-
TELL NAME & NUMBER: Avion Federal #3		
TELL LOCATION: 1880' FSL & 1880' FEL	J 22	23S 32E
FOOTAGE LOCATION	UNIT LETTER SECTION	TOWNSHIP RANGE
WELLBORE SCHEMATIC	<u>WELL CC</u> Surfac	<u>WELL CONSTRUCTION DATA</u> Surface Casing
See Attached	Hole Size: 17 ½"	Casing Size: 13 3/8"
	Cemented with: 600 sx s	sx. <i>or</i> ft ³
	Top of Cement: <u>surface</u>	Method Determined: visual
	Intermed	Intermediate Casing
	Hole Size: 11"	Casing Size: 8 5/8"
	Cemented with: 1475 sx s	sx. orft ³
	Top of Cement: Surface	Method Determined: visual
	Product	Production Casing
	Hole Size: 7 7/8"	Casing Size: 4 1/2"
	Cemented with: 500 s	sx. <i>or</i> ft ³
	Top of Cement: 6834	Method Determined: CBL
	Total Depth: 8950	
	Injectio	Injection Interval
	Perf 5260' to 5302' fe	feet \$65 and 5504' - 5524'
	(Perforated or Open	(Perforated or Open Hole; indicate which)

oil zones from 7086' to 8570' which were marginal.	e the name and depths of any oil or gas zones u ction zone in this area: <u>No overlying oil</u>	4. Has the well ever been perforated in any other zone(s)? List all such perforated in multiple intervals and give plugging detail, i.e. sacks of cement or plug(s) used. perforated in multiple Delaware zones. Two BP's already set & will set another w/ cmt on top. See schematic.	3. Name of Field or Pool (if applicable): Diamondtail Delaware	2. Name of the Injection Formation: <u>Delaware Sand - Bell Canyon Member</u>	Additional Data 1. Is this a new well drilled for injection? Yes x No If no, for what purpose was the well originally drilled? oil well	Other Type of Tubing/Casing Seal (if applicable):	Packer Setting Depth: +5220'	INJECTION WELL DATA SHEET Tubing Size: 2 3/8" Lining Material: Salta (plastic) Type of Packer: Model R
	ware	iple 		36 .TME	BUREAU CULEND M SOOI JUN 21 AM 8:			

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AVION FEDERAL "3	FIELD	TAIL DELAWARE	DATE 6/06/01
PRESENT COMPLETION		TED COMPLETION	
PERMANENT WELL BORE DATA			DATA ON THIS COMPLETION
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LEA COUNTY, NM			
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T.O.C. 6834 - CBL	- 8		······································
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••••••••••••••••••••••••••••••••••••••			PEEF 7086-98, 7122-24, 7412-20,
			7534-41', 7578-86' \$ 7604-08
			B.P. @ 7709'
		Energian and an	PERF 7948-62 & BOTA-80
			B.P. @ 8152'
			PERF. 8490-8508
	·		PERF, 8534-48' & 8558-70'
412"11.6 " JEN@ 8828'		IL GARAGE	PBTD 8766'

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AVION FEDERAL # 3	IELD DIAMOND	TAIL	DELAWARE	DATE 6/06/01
PRESENT COMPLETION		TED COM	PLETION	
PERMANENT WELL BORE DATA		<u>.</u>	<u></u>	DATA ON THIS COMPLETION
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LEA COUNTY, NM	ō			-
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100-412 - 4600				
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858" 32 "J @ 4838'				<u>a</u> <u></u>
CMT'D. W 1975 5X, - CIEC.	{ <u>}</u>	\mathbf{X}		23/3"PC tubing & pactor @ ± 50
	3:14			
	341		1	Disposal zone perf. 5260-5302
				\$ 5509-24
				1
				Perie 5700° and pump 4505x cml
	5			from 5700' to 4000'
T.O.C. 6834 - CBL	Ya Kara ya			
	A		(A.)	
	ŀ			BP@ 7050 w/ 25x cmt.
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		\geq	\leq	B.P. @ 8152'
			ł	PERF. 8490-8508
······································			+	PERF, 8534-98' & 8558-70'
41/2" 11.6 " JEN@ 8828'		12, 1:14		PBTD 8766'
CMT'D W 500 5K - TOC 6834'		ALLA		
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Application For Authorization To Inject

Echo Production, Inc. Avion Federal #3 1880' FSL & 1800' FEL, Sec 22-23S-32E Lea County, New Mexico

VI. "Data on all wells within area of review".

Avion Federal #2 (only well in one-half mile radius)
Operator – Echo Production, Inc.
Location – 990' FSL & 330' FEL, Sec 22-23S-32E
Drilled by Strata Production Company 2/27/97 and P&A'd
13 3/8" 48# casing at 620' with 800 sacks – circulated to surface
8 5/8" 24 & 32# casing at 4870' with 1656 sacks – circulated to
surface.
TD 9000'. Cement plugs 8970-8770', 6100-5900', 4920-4820', 670
-580' and 30' to suface.
Re-entered by Echo Production, Inc. 2/3/99
Drilled out plugs to 8410'
4 ½" 11.6# casing @ 8410' with 290 sacks. TOC 6900'
Perf Delaware 8195-8208' – oil well.

- VII. "Data on Proposed Operation"
 - 1. Proposed average disposal rate 1200 BPD maximum rate 2500 BPD
 - 2. Closed system
 - 3. Proposed average injection pressure initially 500# maximum 1150#
 - 4. Injection fluid is Lower Delaware sand, which is compatible with Upper Delaware water sand receiving fluid.
 - 5. Chemical analysis of Delaware sand is attached. Do not have any analysis of disposal zone since it is not productive, but it would be similar.
- VIII. "Geologic Data"

Proposed injection zone is the Delaware Sand – Bell Canyon member. This member extends from 4868' to the top of the Delaware Sand – Cherry Canyon member encountered at 5970'. Two high porosity sand zones at 5260-5302' and 5504-24' will be utilized for disposal.

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There are no fresh water aquifers underlying the injection interval. Fresh water is found in the shallow Permian sands to a depth of 575'. These zones are isolated by the surface casing (615'), intermediate casing (4838') and the production casing.

IX. "Stimulation Program"

Will acidize the two sets of perforations individually with a total of $3000 \text{ gals } 7\frac{1}{2}\%$ HCl.

X. "Logging and Test Data"

Well was completed in Delaware sand for an IP of 11 BOPD and 113 BWPD on 3/25/00. Well was SI in Feb. 2001 due to marginal production. Well logs were previously submitted.

XI. "Fresh Water Analysis"

Only known fresh water well within one mile is located 600' FEL and 1200' FNL of Sec 21-23S-32E. A sample was taken from the tank at this well on 5/24/01 and the analysis is attached.

- XII. All geologic and engineering data show no evidence of any type of connection between the disposal zone and the shallow aquifers. Several disposal wells already exist in comparable Delaware sands to the one being proposed.
- XIII. "Proof of Notice"

There is only one additional leasehold operator within one-half mile of the proposed well. A copy of notification is enclosed. All land within one-half mile is Federal. A copy of the application and a Sundry Notice (enclosed) was mailed to the BLM.

A copy of the ad placed in the Hobbs News – Sun is also enclosed.

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Water Analysis Report

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Customer: ECHO	PRODUCTION INC.			7/3/00
Address:				
City:	State:	Zip:		
Attention: TOM	GOLDEN	Dat	e Sampled:	6/30/00
CC1: TOM I		Date	e Received:	6/30/00
	DUNEWELL	SALESMAN NAME	PRESTON SO	UTHARD
CC2:				
LEASE: AVION	SA	MPLE POINT: AVIO	ON #Batterey	e 1
WELL: AVION #1		REMARKS:	Delaware	Dud
	CHLORIDE:	168500		
	SULFATE:	207		
	BICARBONATE:	68		
	CALCIUM:	22536		
	MAGNESIUM:	4325		
	IRON:	49		
	BARIUM:	0		
	STRONTIUM:			
	MEASURED pH:	5.6		
	TEMPERATURE:	85		
	DISSOLVED C02:			
MOLI	E PERCENT CO2 IN GAS:	0,50		
	DISSOLVED H2S:		l	
	PRESSURE (PSIA):	100		
	SODIUM (PPM):	75365		
TOTAL D	ISSOLVED SOLIDS: 271	050		
	IONIC STRENGTH:	4.76		

N/A **CALCITE PTB:** CALCITE (CaCO3) SI: -0.14 N/A **GYPSUM PTB:** GYPSUM (CaSO4) SI: -0.46 N/A BARFTE PTB: N/A BARITE (BaSO4) SI: N/A **CELESTTIE PTB:** CELESTITE (SrSO4) SI: N/A

SI calculations based on Tomson-Oddo

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Water Analysis Report

Customer: ECHO PRODUCTION	INC.	5/29/01
Address:		
City: State:	Zip:	
Attention: TOM GOLDEN	Date Sampled:	5/29/01
CC1: TOM HONNEWELL	Date Received:	5/29/01
CC2:	SALESMAN NAME: PRESTON S	OUTHARD
LEASE: JAMES	SAMPLE POINT:	
WELL: FRESH WATER WE	и REMARKS :	
CHI	ORIDE: 90	
	LFATE: 179	
BICARBO	•	
	LCIUM: 76	
MAGN	ESIUM: 24	
	IRON: 16	
	ARIUM: 0	
	NTIUM:	
MEASUR	-	
TEMPERA DISSOLVI		
MOLE PERCENT CO2 I		
DISSOLVE		
PRESSURE	· · ·	
SODIUM		
	la de la companya de	
TOTAL DISSOLVED SOLD	· · ·	l l
IONIC STRE	NGTH: 0.01	
CALCITE (CaCO3) SI: -2.44	CALCITE PTB: N/A	
GYPSUM (CaSO4) SI: -2.11	GYPSUM PTB: N/A	
BARITE (BaSO4) SI: N/A	BARITE PTB: N/A	
CELESTITE (SrSO4) SI: N/A	CELESTITE PTB: N/A	
SI calculations based on Tomson-Oddo		

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Echo Production, Inc.

PO Box 1210 Graham, Texas 76450 (940) 549-3292 Fax: (940) 549-5162

June 12, 2001

Concho Resources 110 W. Louisiana Suite 410 Midland, TX 79701

> Re: Avion Federal #3 1880' FSL & 1880' FEL Sec 22 T23S R32E Lea County, New Mexico

Enclosed is a copy of the Oil Conservation Division Form C-108 "Application For Authorization To Inject" which Echo Production, Inc. has recently filed. This will serve as written notification of Echo Production's intention of converting the Avion Federal #3 to a saltwater disposal well.

If you have any questions, please contact me at the above address or phone number.

··-./

Sincerely,

1 om Golden

Tom Golden Operations Manager



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.

of _____1

_____ weeks.

Beginning with the issue dated

June 12 2001 and ending with the issue dated

June 12

Publisher Sworn and subscribed to before

me this <u>12th</u> day of

June

_____ 2001

_____ 2001

Nenson

Notary Public.

My Commission expires October 18, 2004 (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 June 12, 2001 NOTICE OF APPLICATION FOR AUTHORIZATION TO INJECT

Echo Production, Inc., P.O. Box 1210, Graham, Texas 76450, has applied to the New Mexico Oil Conservation Division for authorization to dispose of produced water into the Avion Federal #3 located 1880' FEL Sec. 22-23S-32E, Lea County. The proposed perforations from 5260-5302' and 5504-24'. Maximum injection rate will be 2500 BDP and maximum injection pressure 1150#. The contact person for Echo Production, Inc., is Tom Golden at (940) 549-3292.

Requests for hearing from the affected parties or objections to any aspect of the application must be filed with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days of publication. #18231

Echo Production, Inc. P.O. Box 1210 GRAHAM, TX 76450

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an a	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
i sen en e	 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse 	A. Received by (Please Print Clearly) B. Date of Deliver
 A state of the sta	 so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	X Agent
	1. Article Addressed to:	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
	Concho Resources	
	110 W. Louisiana	
	Suite 410	
	Midland, Texas 79701	3. Service Type Certified Mail Express Mail Registered Return Receipt for Merchandise
		Insured Mail C.O.D.
and the second		4. Restricted Delivery? (Extra Fee)
	2. Article Number (Copy from service label)	
and a star with the start of the start of the	7000 0600 0028 5026 09 58	ic Return Receipt 102595-99-M-178
	UNITED STATES POSTAL SERVICE	First-Class Mail Postage & Fees Paid
	Sender: Please print your na	USPS Permit No. G-10
	• Sender: Please print your na Echo Prod	me, address, and ZIP+4 in this box •
	Echo Prod PO Box 1210	Permit No. G-10 Imme, address, and ZIP+4 in this box • uction, Inc.
	Echo Prod	Permit No. G-10 Imme, address, and ZIP+4 in this box • uction, Inc.
	Echo Prod PO Box 1210 Graham, TX	Permit No. G-10 Imme, address, and ZIP+4 in this box • uction, Inc. 76450
	Echo Prod PO Box 1210	Permit No. G-10 Imme, address, and ZIP+4 in this box • uction, Inc. 76450
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