Form 3160-5 (November 1994)

UNITEF TATES DEPARTMENTS. THE INTERIOR

FORM APPROVED OMB No. 1004-0135 Expires July 31, 1996

BUREAU OF LAND MANAGEMENT	N.M. Oil Cons. Division
LINDRY NOTICES AND REPORTS ON WELLS	1625 N Franch NM 088163

6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals Hobbs, NM 88240 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side Type of Well 8. Well Name and No. Oil Well Gas Well Gother SIAvion Federal #3 Name of Operator 9. API Well No. Echo Production, Inc. 30-025-34817 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Area (940) 549-3292 PO Box 1210, Graham, TX 76450 Diamond Tail Delaware Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 1880' FSL & 1880' FEL Sec 22 T 23S R 32E Lea County, NM 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION ■ Water Shut-Off Production (Start/Resume) Deepen Acidize Notice of Intent ☐ Well Integrity Reclamation Fracture Treat ☐ Alter Casing Other Recomplete New Construction ☐ Subsequent Report Casing Repair Temporarily Abandon Plug and Abandon ☐ Change Plans Final Abandonment Notice Water Disposal Plug Back Convert to Injection 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) 13 3/8" csg @ 615' cmt to surf, 8 5/8" csg @ 4838' cmt to surface, 4 ½" Present Well Data: csg @ 8828' cmt to 6834'. Perf 7086-98', 7122-24', 7412-20', 7534-41', 7578-86' & 7604-08'. Perf 7948-62' & 8074-80' shut off w/BP @ 7709'. Perf 8490-8508', 8534-48' & 8558-70' shut off w/BP @ 8152'. Run 2 3/8" PC tubing w/ packer to ± 7040 ' for disposal of produced water. Copy of Form C-108 and supporting data is enclosed. SUBJECT TO BLM Bond File No.: NM 2692 LIKE APPROVAL BY NMOCD 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Operations Manager Tom Golden Signature 8/28/01 1 am Bolde THIS SPACE FOR FEDERAL OR STATE OFFICE USE PETROLEUM ENGINEER ate Approved by (ORIG. SGD.) ALEXIS C. SWOBODA Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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, ficilities transformed fraudulent statements or representations as to any matter within its jurisdiction.

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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 1/2" 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 1500 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 – Brushy Canyon member. This member extends from 7000' to the top of the Delaware Sand – Middle Brushy Canyon member encountered at 7842'. 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.

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IX. "Stimulation Program"

Perforations had been stimulated previously.

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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AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, KATHI BEARDEN

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of the Hobbs Nemewspaper publiched Hobbs, New Memore that the clinere was publiched week in the regularsue of said papsupplement there	shed at xico, do solemnly ipping attached shed once a lar and entire er, and not a
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Beginning with the issue d	lated
August 18	_ 2001
and ending with the issue of	

August 18 2001

Publisher Sworn and subscribed to before

20th me this_ _day of

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 August 18, 2001

NOTICE OF APPLICATION FOR
AUTHORIZATION TO INJECT

Echo Production, Inc., PO 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 FSL and 1880 FEL Sec. 22-23S-32E. Lea County. The proposed disposal zone is the Delaware Sand-Brushy Canyon member aworth proposed appropriations. Sand-Brushy Canyon/member avorth proposed perforations from 7086-98', 7122-24', 7412-20', 7534-41', 7578-86' & 7604-08'. Maximum injection rate will be 1500 BPD and maximum injection pressure 1150#. The contact person for Echo Produc-tion, Inc. Is Tom Golden at (940)549-3292. Reguests for hearing from affected parties or objections to any aspect of the ap-, plication must be filed with Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days of publication.

02105309000 67502205 Echo Production, Inc. P.O. Box 1210 GRAHAM, TX 76450

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Echo Production, Inc.

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

August 22, 2001

Devon Energy Corporation 20 N. Broadway Suite 1500 Oklahoma City, OK 73102-8260

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,

Tom Golden

Operations Manager

Jan Golde

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Water Analysis Report

Customer: ECHO PRODUCTION INC.

7/3/00

Address:

City:

State:

Zip:

Attention: TOM GOLDEN

Date Sampled:

6/30/00

Date Received:

6/30/00

CC1: TOM HONEWELL

SALESMAN NAME: PRESTON SOUTHARD

CC2:

SAMPLE POINT: AVION #Batterer

REMARKS:

WELL: AVION#1

LEASE: AVION

CHLORIDE:

168500

SULFATE:

207 68

BICARBONATE: CALCIUM:

22536

MAGNESIUM:

4325

IRON:

49

BARIUM:

0

STRONTIUM:

MEASURED pH:

5.6

TEMPERATURE: **DISSOLVED C02:** 85

MOLE PERCENT CO2 IN GAS:

130 0.50

DISSOLVED H2S:

PRESSURE (PSIA):

100

SODIUM (PPM): 75365

TOTAL DISSOLVED SOLIDS: 271050

10NIC STRENGTH: 4.76

-0.14

CALCITE PTB:

N/A

CALCITE (CaCO3) SI: GYPSUM (CaSO4) SI:

-0.46

N/A

BARITE (BaSO4) SI:

N/A

GYPSUM PTB: BARITE PTB:

N/A

N/A

CELESTITE (SrSO4) SI:

CELESTITE PTB:

N/A

SI calculations based on Tomson-Oddo

3000 13000 30000 130000

80:6 W 4-0E3 003

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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 SOUTHARD

LEASE: JAMES

SAMPLE POINT:

FRESH WATER WELL

REMARKS:

90 CHLORIDE:

SULFATE: 1.79.

BICARBONATE:

76 CALCIUM: **MAGNESIUM:** 24

IRON: 16

BARIUM:

STRONTIUM:

MEASURED PH:

75 TEMPERATURE: 75 DISSOLVED C02:

MOLE PERCENT CO2 IN GAS:

0.50

DISSOLVED H2S:

PRESSURE (PSIA):

100

SODIUM (PPM): 25

TOTAL DISSOLVED SOLIDS: 445

IONIC STRENGTH: 0.01

N/A

CALCITE (CaCO3) SI: -2.11 CALCITE PTB:

N/A

GYPSUM (CaSO4) SI: N/A

GYPSUM PTB:

N/A

BARITE (BaSO4) SI: CELESTITE (SrSQ4) SI: BARITE PTB:

N/A

SI calculations based on Tomson-Oddo

CELESTITE PTB:

80:5 87 4-818 180

DECEMED

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

L	PURPOSE: Secondary Recovery Pressure Maintenance No Disposal Storage Application qualifies for administrative approval? Yes No
11.	OPERATOR: Echo Production, Inc.
	ADDRESS: PO Box 1210, Graham, TX 76450
	CONTACT PARTY: Tom Golden / Echo Production, IncPHONE: (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? Yes 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 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:Tom GoldenTITLE:Operations Manager
	NAME:Tom Golden
*	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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INJECTION WELL DATA SHEET

														See Attached	WELLBORE SCHEMATIC	FOOTAGE LOCATION	WELL LOCATION: 1880' FSL & 1880' FEL	WELL NAME & NUMBER: Avion Federal #3	OPERATOR: Echo Production, Inc.
	Perf 7086		Total Depth:	Top of Cement:	Cemented with:	Hole Size:		Top of Cement:	Cemented with:	Hole Size:		Top of Cement:	Cemented with:	Hole Size:		UNIT LETTER	Ū		
(Perforated or Open Hole; indicate which)	•	Injection Interval	8950'	6834'	500 sx.	7 7/8"	Production Casing	surface	1475 sx sx.	11"	Intermediate Casing	surface	600 s x sx.	17 %"	WELL CONSTR Surface Casing	SECTION	22		
ole; indicate which)	feet to 7608'	Interval		Method Determined:	or	Casing Size: 4	Casing	Method Determined:	or	Casing Size: 8	e Casing	Method Determined:	or	Casing Size: 13	WELL CONSTRUCTION DATA Surface Casing	TOWNSHIP	238		
				CBL	ft ³	3 N+	-	visual	ft ³	5/8"		visual	f³	3/8"		RANGE	32E		

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Tul	Tubing Size:	2 3/8"	Lining Material: Salta (plastic)	
Ty	Type of Packer:	Model R		
Pac	Packer Setting Depth:	epth: +7040'		
Ott	Other Type of Tu	ubing/Casing Seal (if applicable):		BUR
		Ado	Additional Data	EAL CALL
 .	Is this a new	Is this a new well drilled for injection?	Yes × No	FID M
	If no, for wh	If no, for what purpose was the well originally drilled?	oil well	DMT.
7	Name of the	Injection Formation:	Delaware Sand - Brushy Canyon Member	
ų.	Name of Fie	Name of Field or Pool (if applicable):	Diamondtail Delaware	
4.	Has the well intervals and	ever been perforated in any o I give plugging detail, i.e. sach	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. perforated in multiple	
	Delaware	zones. Two BP's already	set. See Schematic.	
.	Give the nar injection zor	Give the name and depths of any oil or gas zones underlying or ow injection zone in this area: No overlying oil or gas zones.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: No overlying oil or gas zones. Have underlying	
	Delaware	oil zones from 7086' to	8570' which were marginal.	

INJECTION WELL DATA SHEET

AVION FEDERAL \$3	FIELD DIAMOND	TAIL DELAWARE	8 / 15 /01
PRESENT COMPLETION	sugges	TED COMPLETION	
PERMANENT WELL BORE DATA			DATA ON THIS COMPLETION
1880 FSL + 1880 FEL SEC 22-23	2-32E 4		
LEA COUNTY, NM	₽		
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ELEV. GL3668' K8 8688'	s		
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1338" 48+7 0 616'	Comr.		
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858" 3247 @ 4838'			
CMT'D. W 1475 5x, - CIRC.	Transport		
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T.O.C. 6834' - CBL	1		
	Total as as		
			PERF 7086-98, 7122-29, 7412-20
		Charles III	7534-41, 7578-86 \$7604-0
·			B.P. @ 7109'
		<u> </u>	PRRF 7948-62 & 8074-80'
	:	Statestern	B.P. @ 8152'
	· 		PERF. 8490-8508'
		**	PERF. 8534-48 & 8558-70
	————————————————————————————————————		
4121,11.0 , 2 FN 6 8858,		11,5415,41	PBTD 8766'

EURYO TURKSDE 1140/1 GWT 10 6 75±**08**

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WELL COMPLETION SKETCHES		
AVION FEDERAL "3	FIELD DIAMOND TAIL DEL	AWARE DATE 8/15/01
PRESENT COMPLETION	SUGGESTED COMPLETION	
PERMANENT WELL BORE DATA		DATA ON THIS COMPLETION
1880 FSL 4 1880 FEL SEC 22-235-3	ZE &	
LEA COUNTY, NM	3	
· · · · · · · · · · · · · · · · · · ·		
ELEV. GL 3668' KB 3683'	7 TA	
	Cmr.b	
1336" 4847 0 615'		
CMTD. W 600 SK CIEC.		, · · · · · · · · · ·
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85/8" 32 4 7 @ 4838'		· · · · · · · · · · · · · · · · · · ·
CMT'D. W 1475 5x, - CIEC.		
·		
T.O.C. 6839' - CBL		236" PC TBG. @ + 7040'
	*	
		PERF 7086-98, 7122-29, 7412-20,
	1.	7534-41, 7578-86 \$7604-08
		B.P. @ 7709'
	#	PERF 7948-62 & 8074-80'
	Sind California .	B.P. @ 8152'
		Perf. 8490-8508'
		PERF. 8534-48' & 8558-70'
4½"11.6"] ¿N @ 8828'		PBTD 8766'
	The state of the s	7010 8 100
CMT'D W 5005x - TOC 6834'	TD 8950	

80 ± 0 1 (80 ± 08). 17.00 (1 = 0.1 = 0.2 ± 0.8).

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