10/2	2/43 11/06/03 CWD LR REGENED PERMICE
STA ENE	TE OF NEW MEXICOOil Conservation DivisionWVJ0331883981FORM C-108RGY, MINERALS AND NATURAL1220 South St. Francis Dr.0CT 2 2 2003Revised 4-1-98OURCES DEPARTMENTSente For New Morico 875050CT 2 2 2003Revised 4-1-98
	APPLICATION FOR AUTHORIZATION FOUNDED SERVATION WUT
	DIVISION
I.	PURPOSE: Secondary Recovery Pressure Maintenance x Disposal Storage Application qualifies for administrative approval? x Yes No 9 1 1
II.	OPERATOR: Echo Production, Inc.
	ADDRESS: PO Box 1210, Graham, Texas 76450
	CONTACT PARTY: Tom Golden 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:
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.	
	 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, 5. 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.	known to be immediately underlying the injection interval. 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.	
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 Golden
	SIGNATURE: John Golan DATE: 10/13/03
*	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:

1.0

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Side 2

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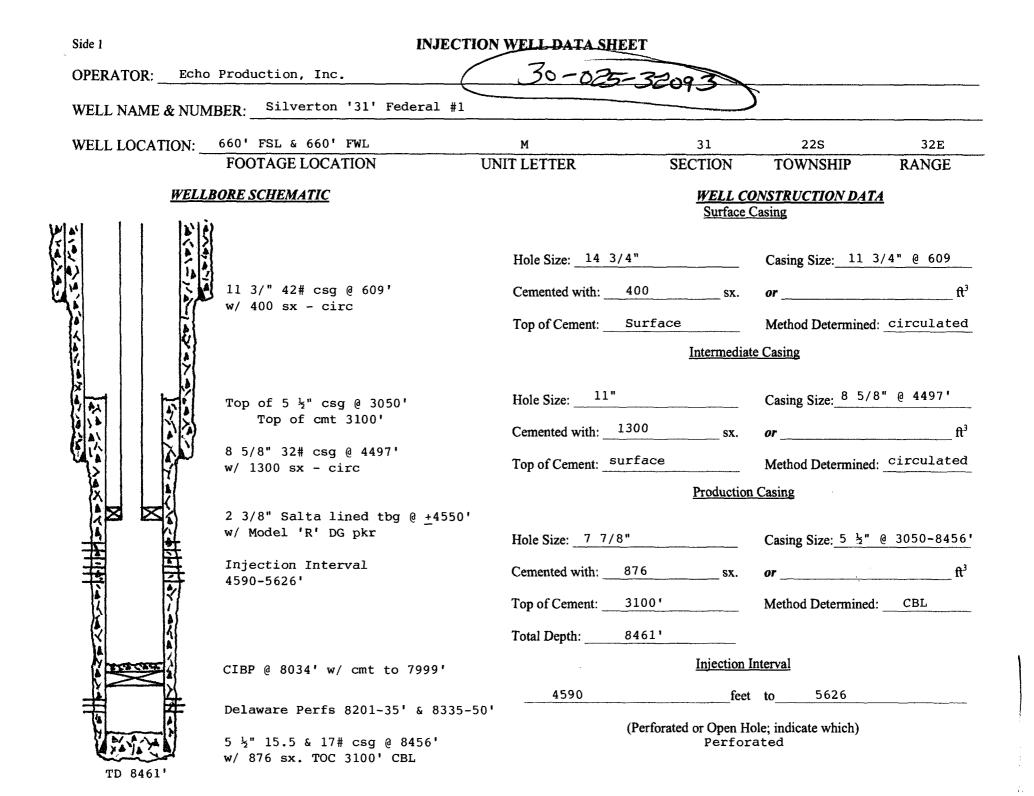
III. W	VELL DATA	
А.	The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:	
	(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.	
	(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.	
	(3) A description of the tubing to be used including its size, lining material, and setting depth.	
	(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.	
	Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.	
В.	The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated	:
	(1) The name of the injection formation and, if applicable, the field or pool name.	
	(2) The injection interval and whether it is perforated or open-hole.	
	(3) State if the well was drilled for injection or, if not, the original purpose of the well.	
n di na	(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.	
the sales. The sales	(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.	
XIV.	PROOF OF NOTICE	
	All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.	· .
	Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:	2 -
1.123	(1) The name, address, phone number, and contact party for the applicant;	÷
	(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;	
	(3) The formation name and depth with expected maximum injection rates and pressures; and,	
	(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.	, , .
·	NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.	Ţ
	ICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 day	s
	ICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 day the date this application was mailed to them.	s

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INJECTION WELL DATA SHEET

Tub	bing Size:2 3/8"	Lining Material:Salta
Ту	pe of Packer: Model 'R' DG	
Pac	cker Setting Depth:4550 '	
Oth	her Type of Tubing/Casing Seal (if applicabl	e):
	Add	litional Data
1.	Is this a new well drilled for injection?	Yes <u>×</u> No
	If no, for what purpose was the well origin productive and was P&A	ally drilled? Delaware producing well was not
2.	Name of the Injection Formation:	Canyon
3.	Name of Field or Pool (if applicable):	
4.	Has the well ever been perforated in any of intervals and give plugging detail, i.e. sack	ther zone(s)? List all such perforated s of cement or plug(s) used. <u>Lower Delaware</u>
	8201-35' & 8335-50'. CIBP set @	8034' w/ 35' of cmt on top.
5.	Give the name and depths of any oil or gas injection zone in this area:	zones underlying or overlying the proposed
	Overlying - none	,
	Underlying - Brushy Canyon (Lower	Delaware) @ <u>+</u> 8200' to 8350'

Form C-108 Silverton '31' Federal #1 660' FSL & 660' FWL Section 31-22S-32E Lea County, NM

- VI. There are no wells within the area of review, which penetrate the proposed injection zone.
- VII. 1. The proposed average injection rate is 1000 BPD and the maximum is 1500 BPD.
 - 2. The system is closed.

3. The average injection pressure is estimated at 650 PSI and the maximum is 930 PSI.

4. The source of the injection water will be from the Lower Delaware from wells Echo will be drilling in Sec 31-22S-32E. Since these wells have not been drilled a water analysis submitted by Pogo for the disposal well they permitted in Sec 31-22S-32E is attached.

5. Water analysis for subject well is not available since it has not been completed. The water analysis submitted by Pogo for their Proximity '31' Federal #4 SWD permit is attached.

- VIII. The disposal zone is the Bell Canyon (Delaware) which is encountered at 4590' to 5626' with a thickness of 1036'. It is a light gray, fine grained, poorly consolidated silty sandstone. There are no fresh water sources underlying the proposed disposal zone and the overlying fresh water source would be the Santa Rosa at a depth to the bottom of the zone at <u>+</u>600'.
- IX. Well will be acidized with 2000 to 4000 gals of 10% HCl with ball sealers for diversion.
- X. The well never produced so data is not available. Well logs were previously filed.
- XI. There are no fresh water wells within a mile of the subject well.
- XII. Logs and well data do not indicate any hydrologic connection between the proposed Bell Canyon disposal zone and any underground sources of drinking water. One well in the same section has already been approved for disposal and is presently active.
- XIII. A copy of the letters of notification to offset operators are attached. The surface is Federal and 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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FORM C-108 ITEM VII(4)

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ANALYSIS - BRUSHY CANYON PRODUCED WATER

WATER ANALYSIS REPORT

1

Company Address Lease Well Sample	: MIDLAND, TEXAS : RED TANK FED. 28 : #1 Brushy Canyon (Def)	Date Date Sampled Analysis No.	: 01/08/93 : 01/04/93 : 005	
	ANALYSIS	mg/L	*	meq/L
			-	****
1.	pH 6.2			
2.	H2S 3 PPM			
3.	Specific Gravity 1.160			
4. 5. 6.	Total Dissolved Solids	279018.4		
5.	Suspended Solids	NR		
6.	Dissolved Oxygen	NR		
7.	Dissolved CO2	80 PPM		
8.	Oil In Water	NR		
9.	Phenolphthalein Alkalinity (CaCO3)	ł		
10.	Methyl Orange Alkalinity (CaCO3)	60.0		
11.	Bicarbonato goo:	73.2	IICOJ	1.2
12.	Chloride C1	170409.6	CI 480	Q7 ,Q
13.	sulfate 504	1000.0	S04 :	20.8
14.	Calcium Ca	16881.7		42.4
15.	Magnesium Mg	1186.3		97.6
16.	Sodium (calculated) Na	89409.6		89.1
17.	Iron Fe	58.0		
18.	Barium Ba	NR		
	Strontium Sr	ŅR.		
20.	Total Hardness (CaCO3)	47042.3		

PROBABLE MINERAL COMPOSITION

	ه که شد که برد برد برد برد برد برد برد		-		
*milli equivalents per Lite	r	Compound	Equiv wt	X meg/L	= mç
	++	********	****		
842 *Ca < *HCO3	1	Ca (HCO3)2	81.0	1.2	S
>		CaŠO4	68.1	20.8	141
98 *Mg> *SO4	21	CaC12	55.5	820.4	4552
/		Mq (HCQ3) 2	73.2	44414	1446
3889 *Na> *Cl	4807	MqSO4	60.2		
+an-aur		MgC12	47.6	97.6	464
Saturation Values Dist. Wat	er 20 C	NaHCO3	84.0	.37.0	404
	g/L	Na2SO4	71.0		
		NaCl		2000 1	20202
	g/L	NACI	58.4	3889.1	22727
	g/L				
REMARKS:					
4/m//#17/7/04 +					

----- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, ROZANNE JOHNSON FORM C-108 ITEM VII(5)

ANALYSIS - INJECTION ZONE PRODUCED WATER

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD: No cores taken

Perm. in s	nillidorcys	% Poresity	Liquid Satu	mation (% of pare space)
Horizontal	Vertical		Water	Qii

OTHER SHOWS ENCOUNTERED IN THIS FIELD: None

TRAP TYPE: Stratigraphic, sand pinchout NATURE OF OIL: 37.8° gravity, sweet NATURE OF GAS: sweet

NATU	RE OF PRODUCING Z	ONE WATER:	<u>Salt</u>			Resistivity:			hm-meters (<u>ð</u>	*F.
	Total Solids	Na+K	Ca	Mg	Fe	SQ 4	a	COL	HCO:	OH	His
opm		47,700	<u> 6160</u>	2060	100	1500	89,400		160		neg

INITIAL FIELD PRESSURE: Unknown

TYPE OF DRIVE: Unknown

NORMAL COMPLETION PRACTICES: Set through, perforate & sand frac.

		No. of wells	i @ yr. end	Production Oil in harrels			
1	Туре	Producing	Shut in	Oil in barrels Gas in MMCF			
		(oracing	or Abad.	Annuai	Cumulative		
	liio						
1956	903			-			
1957 I	oil						
	gas		1				
	ail i				1		
1958	gas i				1		
	l lite				1		
1959	ges				1		
	i lio	0] **	631.5	631.5		
1960*	gas						

* 1960 Figure is production to July 1, 1960. ** well shut in on April 19, 1960.

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.

2003

Beginning with the issue dated

October 10 2003 and ending with the issue dated

October 10

Publisher Sworn and subscribed to before

me this <u>10th</u> day of

October 2003

Notary Public.

My Commission expires *bad date* (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.

02105309000 67517181 Echo Production, Inc. P.O. Box 1210 GRAHAM, TX 76450

LEGAL NOTICE October 10, 2003

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 Silverton "31' Federal #1 located 660' FSL & 660' FWL Sec 31-22S-32E, Lea County, NM. The proposed disposal zone is the Bell Canyon from 4590' to 5626'. Maximum injection rate will be 1500 BWPD at a maximum injection pressure of 930#. The contact person for Echo Production, Inc. is Tom Golden at (940) 549-3292. Requests for hearing from 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. #20174

10/23/2003 THU 13:44 FAX 1 940 549 5162 Echo Production

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Forta 3160-5 (August 1999)	LED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	•· .		FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000	
		<u>نہ</u> ہے۔		5. Leuse Serial No.	1. 1. 1 1. 1. 1
SU Do not u	NDRY NOTICES AND REPORTS ON W se this form for proposals to drill or to I	ELLS		NM 84891	
abandone	ed well. Use Form 3160-3 (APD) for such p	ropos	als.	6. If Indian, Allottee or Tribe Name	• • •
SUBMET	URIPLICATE - Other instructions on			7. If Unit or CA/Agreement, Name :	and/or No
1					ALO/VE 110,
1. Type of Well					
Oit Well Gas W	ell 📓 Other			8. Well Name and No,	1
2. Name of Operator				Silverton '31' Fede	ral #1
Echo Producti				9. API Well No.	
			lude area code)	30-025-32093	
	e, Sec., T., R., M., or Survey Description)) 54	9-3292	10. Field and Pool, or Exploratory A	ICA.
	- · · ·			11. County or Parish, State	
000 ISL & 00	0' FWL Sec 31 T228 R32E				
				Lea County, NM	
12. CHEC	K APPROPRIATE BOX(ES) TO INDICATI	ENAT	URE OF NOTICE, RI	EPORT, OR OTHER DATA	
TYPE OF SUBMISSIO	N ····································		TYPE OF ACTION	tin second states and the second states and the second states and the second states and the second states and t	
	Acidizs Decpen	· ·.	Production (Start	Resume) D Water Shut-Off	
Notice of Intent	Aher Casing D Fracture 7		C Reclamation	Well Integrity	
Subsequent Report	Casing Repair D New Com	struction			er
	Change Plans D Ping and	Abando	a 🖸 Temporarily Abr		
Final Abandonment No	tice D Convert to Injection D Plug Back		Water Disposal		• <u></u>
Present Well Propose to: D r a A copy of for	he involved operations If the operation results in a ran cd. Final Abandonment Notices shall be filed only aff ready for final inspection.) Data: 11 3/4" csg (609' w/ (circ), 5 ½" csg 3050- shut off w/ CIBP (803 571-671' & 2981-3131' orill out cmt plugs 0-61', 57 everse unit. Perforate vario nd convert to SWD thru 2 3/8 +4550' m C-108 that has been sent to d when received.	400 8456 4 * & 1-67 us B " Sa o th	<pre>sx (circ), 8 5 ' w/ 876 sx - cmt to 7999'. 1' & 2981-3131 ell Canyon zon tta lined tubi</pre>	<pre>/8" csg @ 4497' w/ 1 TOC 3100'. Perfs 820 Cement plugs 0-61', ' w/ workover rig, a es from 4590-5626', ng set on a Model 'R hed and an approved</pre>	300 sx 1-35' nd acidize ' DG pkr
will be maile			an an an an an the state of the second		
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BLM Bond Numb					
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Tom Golden		Title	Operations Ma	hager	
Signature Vi Chan	24.00				1
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Approved by			Title	Date	
certify that the applicant hold	y, are attached. Approval of this notice does not wan ds legal or equitable title to those rights in the subject and to conduct operations thereon.	cant or i lease	Office		
Title 18 U.S.C. Section 1001 States any false, fictitious or f	and Title 43 U.S.C. Section 1212, make it a crime for a raudolent statements or representations as to any matter	ny pers within i	on knowingly and willfully ts jurisdiction.	to make to any department or agency of	of the United

Echo Production, Inc.

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

October 14, 2003

Wilson & Barr 500 W. Texas Suite 1220 Midland, TX 79701

> Re: Silverton '31' Federal #1 660' FSL & 660' FWL Section 31-22S-32E Lea County, New Mexico

Enclosed is a coy 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's intention of converting the Silverton '31' Federal #1 to a saltwater disposal well.

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

Sincerely,

John Stoll

Tom Golden Operations Manager

Echo Production, Inc.

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

October 14, 2003

BP America Production Co. Box 22048 Tulsa, OK 74121

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Yates Petroleum Corporation 105 S. Fourth Street Artesia, NM 88210

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