ENE	NERGY AND MINERALS DEPARTMENT POST OF STATE LAN STATE LAN STATE LAN SATISFIELD	ejit - East o ye e MFCE BOX 2048 IO OFFICE BUX DANS NEW MEXICO 87501	Revised	7-1-81
APPLTO	LICATION FOR AUTHORIZATION TO INJECT	. <u>.</u>		
1. 702 11.	I. Purpose: ⁽¹⁾ Secondary Recovery Pre Application qualifies for administrati C2 [1] - 2, [1] 10 06 I. Operator: Texaco E & P Inc.	nsure Maintenanc ve approval? [yes no	itorage
	Address: 3300 N. Butler Farmin	gton, NM 87	401	
	Contact party: Ted A. Tipton	Pho	ne: 505-325-4397	
111.	I. Well data: Complete the data required on proposed for injection. Addi	the reverse side tional sheets may	e of this form for eac the attached if neces	h well sary.
IV.	Is this an expansion of an existing projection of the second s	ct? yes thorizing the pro	X no ject	. <u></u> .
۷.	Attach a map that identifies all wells and injection well with a one-half mile radius well. This circle identifies the well's a	d leases within t s circle drawn ar area of review.	wo miles of any propo ound each proposed in	sed jection
* VI.	Attach a tabulation of data on all wells of penetrate the proposed injection zone. Su well's type, construction, date drilled, l a schematic of any plugged well illustration	of public record uch data shall in location, depth, ing all plugging	within the area of re clude a description o record of completion, detail.	view which f each and
VII.	. Attach data on the proposed operation, inc	luding:		
	 Proposed average and maximum daily Whether the system is open or clos Proposed average and maximum inject Sources and an appropriate analysing the receiving formation if other If injection is for disposal purport at or within one mile of the protthe disposal zone formation wate literature, studies, nearby well 	rate and volume ed; s of injection f than reinjected ses into a zone posed well, atta r (may be measur s, etc.).	of fluids to be inject luid and compatibility produced water; and not productive of oil ch a chemical analysis ed or inferred from ex	cted; y with or gas s of kisting
•VIII.	. Attach appropriate geological data on the detail, geological name, thicknass, and de bottom of all underground sources of drink total dissolved solids concentrations of l injection zone as well as any such source injection interval.	injection zone in pth. Give the ga ing water (aquifa 0,000 mg/l or le: known to be immed	ncluding appropriate l eologic name, and dept ers containing waters as) overlying the prop diately underlying the	lithologic ch to with posed
IX.	. Describe the proposed stimulation program,	if any.		
×.	. Attach appropriate logging and test data or with the Division they need not be resubmin	n the well. (If tted.)	well logs have been f	iled
XI.	. Attach a chemical analysis of fresh water available and producing) within one mile of location of wells and dates samples were ta	from two or more f any injection c aken.	fresh water wells (if r disposal well showi	ng
XII.	. Applicants for disposal wells must make an examined available geologic and engineering or any other hydrologic connection between source of drinking water.	affirmative stat g data and find n the disposal zon	ement that they have o evidence of open fa e and any underground	ults
XIII.	. Applicants must complete the "Proof of Noti	ice" section on t	he reverse side of th	is form.
XIV.	Certification			
	I hereby certify that the information submi to the best of my knowledge and belief.	itted with this a	pplication is true an	d correct
	Name: Ted A. Tipton	Title A	rea Manager	
•	Signature: Ula JA	Date:	2.22	

 If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

- A. 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:
 - 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, hule 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.

- B. 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.
 - (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.
 - (5) 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.

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:

- (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, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them. WELL DATA

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LEASE NAME: LOCATION:	H. J. Loe T 29 N, R 1850' FNL Unit Lette San Juan C	Federal B No. 2 12 W, Section 23 & 2310' FEL r G ounty, New Mexico		
CASING DATA:	Surface	Production		
Size	13.375"	5.5"		
Set At	2891	6408		
Weight	48 #	14 & 15.5 #		
Hole Size	17.25"	7.875"		
Cement	300 sx	1 ^{sc} 400 sx 2 nd 150 sx		
TOC	Surf (circ) 1 st 4900' (ca) 2 nd 1350' (ca)	lc) lc)	
TUBING DATA:				
Size	2 3/8"			
Set At	32201			
Weight	4 #			
Grade	J-55			
PACKER DATA:				
Name	Guiberson			
Model	Uni-6			
Set At	32207			
Formation/Field,Po	ol:	Mesa Verde/Undesig	nated	
Injection Interval Perforations	:	3250'-3400', 4000' 4 JSPF, .5 EHD	-4200'	
Original Purpose o	f Well:	Well was originall Dakota formation o	ly drilled and completed in th n June 24, 1960.	ıe
Dakota Perfor	ations		•	
& PBTD:	:	6170'-6278', Aban sx cement (4557'- cement plug (319) (1850'-2368')	doned using 1 CIBP @ 6150', 12 3626'), 1 CIBP @ 3204', 50 s 0'-3122'), 60 sx cement plu	20 3X 19
Pictured Clif	fs Perforati	ons:		
		1703'-1715', 1722'	-1730'(open)	
	1	Will squeeze using	35 sx cement and pressure tes	st
Droductivo Intervo	10.	co 1000 ps1.		
(recompletion)	7 9 •	Fruitland Coal	511/-1698/	
(recomprection)		Pictured Cliffs	1698'-1855'	
		Dakota	6170'-6310'	

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H. J. LOE FEDERAL B No. 2 CURRENT COMPLETION



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H. J. LOE FEDERAL B No. 2 CURRENT COMPLETION







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. Form. Code

OFFSET WELLS WITH AREA OF REVIEW

WELL NAME:	H. J. LOE FEDERAL B No. 2E
LOCATION:	1700' FNL & 1050' FWL UNIT LETTER "E" SEC 23 T29N-R12W
SPUD DATE: Compl date:	OCTOBER 18, 1980 DECEMBER 31,1980
CASING: SIZE 8 5/3 4 1/3	WEIGHT SET @ HOLE SIZE CEMENT TOC 8" 24 501' 12 1/4" 450 SX (CIRC) SURF 2" 10.5 6340' 7 7/8" 1350 SX (1ST) SURF DV @ 3170' 1200 SX (2ND) 3170
(cement vo TD: PBTD:	olumes calculated using 33% excess annular volume) 6340' 6312'
COMPLETION:	
FORMATION: INTERVAL: STIMULATION:	DAKOTA 6188'-6290' w/ 1 JSPF 2000 GAL ACID 125,000 # 20/40 SAND 94,000 GAL FRAC FLUID
WELL NAME:	H. J. LOE FEDERAL B No. 2R
LOCATION:	1650' FNL & 2210' FEL UNIT LETTER "G" SEC 23 T29N-R12W
SPUD DATE: COMPL DATE:	OCTOBER 28, 1976 DECEMBER 31,1976
CASING: SIZE 8 5/3 5 1/3 (cement vo TD: PBTD:	WEIGHT SET @ HOLE SIZE CEMENT TOC 8" 24 298' 11" 150 SX (CIRC)SURF 2" 15.5 6358' 7 7/8" 625 SX (1ST) 2307' DV @ 3166'(DV DID NOT OPEN) 0 SX (2ND) olumes calculated using 50% excess annular volume) 6358' 6320' 1000000000000000000000000000000000000
COMPLETION:	
FORMATION: INTERVAL: STIMULATION:	DAKOTA 6174'-6312' 130,000 # 20/40 SAND 121,500 GAL FRAC FLUID 350 scf CO ₂

OFFSET WELLS WITH AREA OF REVIEW

WELL NAME: H. J. LOE FEDERAL B No. 1

- LOCATION: 990' FNL & 990' FEL UNIT LETTER "A" SEC 23 T29N-R12W
- **SPUD DATE:** DECEMBER 9, 1959 **COMPL DATE:** DECEMBER 13,1959
- CASING:
 SIZE
 WEIGHT
 SET @
 HOLE SIZE
 CEMENT
 TOC

 8 5/8"
 24
 207'
 11"
 250 SX (CIRC) SURF

 4 1/2"
 9.5
 1775'
 6 3/4"
 200 SX
 430'

(cement volumes calculated using 33% excess annular volume) TD: 1775' PBTD: 1761'

COMPLETION:

FORMATION:	PICTURED CLIFFS
INTERVAL:	1730 '- 1748'
STIMULATION:	N/A

ABANDONMENT CONDITIONS

10 SX CMT PLUG-SURFACE 25 SX CMT PLUG-PICTURED CLIFFS (SEE WELLBORE DIAGRAM)

DATE: 2/10/92





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DATE: 2/11/92



H. J. LOE FEDERAL B No. 2R CURRENT COMPLETION





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Attended.

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DATE: 2/10/92



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H. J. LOE FEDERAL B No.1 PLUGGED & ABANDONED





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		··.	رکور به ۱۳۹۵ - ۲۰۰۱ میرون (۲۹۵۵) میرو روان (۲۹۵۹ میرو) رژیور ۲۹۹۹ میرو

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VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluid to be injected daily.

Primary source of water will come from the fruitland coal development on the Loe lease. Secondary water may be truck in from neighboring leases. Average daily injection is anticipated to be 200 BPD, with a maximum volume expected not to exceed 1000 BPD.

2. Whether the system is open or closed.

The system will be a closed injection system. The primary source of water will be from Fruitland coal wells on the Loe lease, with the capabilities of trucking in water from neighboring leases.

3. Proposed average and maximum injection pressure.

After the interval is completed a Step Rate Test will be performed to determine the formation parting pressure. The initial surface injection pressure is not expected to exceed 1800 psi.

4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water.

The primary source of injection water will be from the Fruitland coal formation. Water from other conventional formations may also be injected. Enclosed are water analysis from the Fruitland coal, obtained during drilling operations on the Loe lease, and a Mesa Verde water sample. The fluids appear to be compatible, and exhibit no traits that would pose any operational or environmental problems.

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. Attached

Company: TEXACO EXPL. AND PRO	OD.
County: SAN JUAN	Field: SAN JUAN
State: NM	Location: 27–5
Lab #: 1	Formation: MV
Date: 12/19/90	Depth: 0

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Unichem Intl. Water Analysis Report

	<i>,</i> 7	a a a a a a a a a a a a a a a a a a a	~	<i>a</i>	
<u>Sum +</u> Data arium	<u>mg/L</u>	mcq/L	<u>Sulfata</u>	<u>me/L</u>	meq/L
Potassium	1 910 0	79.73	Chlorido	J0.J	1.21
Socium	1,810.0	16.15	Cashanata	2,400.0	67.70
Calcium	11.8	0.39	Biographamata	650.0	0.00
Magnesium	2.3	0.21	Undrovida	0.920	10.80
HOII Bominum	10.0	0.00	nydroxide	0.0	0.00
Strontium	10.0	0.15	_	0.0	0.00
CATIONS	<u>0.0</u> 1 834 3	<u>0.00</u> 79.68	ANIONS	3 117 3	<u>0.00</u> 79 71
Solids	1,004.0	12.00		5,117.5	17.11
Total Dissolved	l Solids @1800	<u>, , , , , , , , , , , , , , , , , , , </u>		4,946	mg/L
Total Solids, ca	lculated less ca	rbonate		4,622	mg/L
Total Solids, ca	lculated			4,952	mg/L
Total Solids, Na	aCl equivalents	5		4,485	mg/L
System Co	nditions				
System Operation	on				Normal
Sample Temper	rature, 'F			90	F
Sample pH, star	ndard units			7.2	Units
Dissolved (Gases				
Dissolved Oxyg	gen			0.0	ppm
Carbon Dioxide	8			0.0	mg/L
Total Sulfide, (TS)			0.0	mg/L
Sulfide Ion, (S))			0	mg/L
Dissolved Hydi	rog en Sulfide ,	(TS-S)		0	mg/L
Other Prop	ocrties				
Specific Gravity	y, measured			1.0040	
Specific Gravity	y, calculated			1.0037	
Resistivity, mea	asured			0	ohm/m ³
Ionic strength	*******************************	***************************************		0.081	Na katala na katala
Microbiolo	gical				
Sulfate Reducin	ig Bacteria		n	d	
Aerobic Bacteri	8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n	d Latraalistaate	sisteretere and the set of the set of the
Water Ana	lysis Patte	m			



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Approved: T.J. MOORE 02/04/92 v2.00

Company: TEXACO EXPL. AND PROD.	
County: SAN JUAN	Field: BASIN FRUITLAND
State: NM	Location: H-J-LOE FED B #5
Lab #: 1	Formation: FRUITLAND COAL
Date: 12/19/90	Depth: 0

Unichem Intl. Water Analysis Report

<u>Sum +</u>	mg/L	meq/L	<u>Sun –</u>	<u>mg/L</u>	mcq/L
Potassium	0.0	0.00	Sulfate	0.0	0.00
Sodium	10,536.0	458.29	Chloride	16,330.0	460.61
Calcium	416.0	20.76	Carbonate	0.0	0.00
Magnesium	165.0	13.57	Bicarbonate	1,952.0	31.99
Iron	0.0	0.00	Hydroxide	0.0	0.00
Barium	0.0	0.00	-	0.0	0.00
Strontium	<u>0.0</u>	<u>0.00</u>	-	<u>0.0</u>	<u>0.00</u>
CATIONS	11,117.0	492.62	ANIONS	18,282.0	492.60
Solids					
Total Dissolve	d Solids @180	C		28,118	mg/L
Total Solids, c	alculated less c	arbonate		28,423	mg/L
Total Solids, c	alculated			29,399	mg/L
Total Solids, N	VaCl equivalent	6 5000000000000000000000000000000000000		27,889	mg/L
System Co	onditions				
System Operat	ion				Normal
Sample Tempe	rature, 'F			90	F
Sample pH, sta	andard units			7.43	Units
Dissolved	Gases				
Dissolved Oxy	/gen			0.0	ppm
Carbon Dioxic	le			0.0	mg/L
Total Sulfide,	(TS)			0.0	mg/L
Sulfide Ion, (S	5)			0	mg/L
Dissolved Hyd	Irogen Sulfide,	(TS-S)		0	mg/L
Other Pro	penties				
Specific Gravi	ty, measured			1.0200	
Specific Gravi	ty, calculated			1.0206	
Resistivity, me	easured			0	ohm/m ³
Ionic strength				0.510	1,111,1
Microbiol	ogical				
Sulfate Reduci	ng Bacteria		Ĩ	rd	
Aerobic Bacter	ria	****	i	rd Analisian analasa	1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2
Water An	alvsis Patte	m			



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Approved: T.J. MOORE 02/04/92 v2.00

VIII Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological 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 one as well as any such source known to be immediately underlying the injection interval.

> The proposed injection interval for the subject well are sandstones within the Mesa Verde Group. The Mesa Verde Group is Createous in age. The sandstone intervals vary in thickness from 10 feet to 100 feet. These Mesa Verde intervals are composed of fine grained, angular, highly cemented sands with an average porosity of 12 percent. Typically these sandstones are interrupted by layers of shale and coal. The known fresh water zones for this area of the San Juan Basin are the Nacimiento, and the Ojo Alamo formations. The Nacimiento sandstone is at its surface outcrop. The Ojo Alamo is found at approximately 400 feet. There are no known aquifers underlying the Mesa Verde Group that would be considered as "fresh" (less than 10,000 mg/l).

IX. Describe the proposed stimulation program, if any.

The Mesa Verde interval will be perforated between 3250'-3400', and 4000'-4200'. This interval will be tested for injectivity and evaluated. At this time it will be determined if fracture stimulation is necessary. If the Mesa Verde is fractured the job will be performed using a linear gel system, and an estimated 250,000 pounds of propant.

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Attach appropriate logging and test data on the well. Electric well logs were submitted upon the initial completion of the well (Schlumberger Induction Log 6402'-287'). A CBL-VDL will be run prior to the Mesa Verde completion.

XI. Attach a chemical analysis of fresh water from two or more fresh water wells within one mile of any injection or disposal well showing location of wells and dates samples were taken.

Inquires to the State Engineer/ Water Rights Bureau on January 16, 1992 indicate no fresh water wells are located within one mile of the proposed injection well. XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering date and find no evidence of open faults or any other hydrologic connection between the disposal zone and any under ground source of drinking water.

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The Mesa Verde interval is a complex formation comprised of sand, shale, and coal layers. The formation is bordered above by the Lewis Shale, and below by the Mancos Shale. These formation can be considered virtually impermeable to vertical flow under the existing overburden pressure. The known fresh water zones for this area of the San Juan Basin are the Nacimiento, and the Ojo Alamo formations. Within the area of review for the proposed injection well, the Nacimiento sandstone is at its surface outcrop. The Ojo Alamo is found at approximately 400 feet. This sandstone is 100'-200' thick. Faulting or fracturing from the Mesa Verde interval to one of the fresh water formations would be highly uncommon, and highly improbable to occur in the San Juan Basin. Offsetting well records within the "area of review" indicate adequate cement isolation between the proposed injection interval and known sources of drinking water or producing There is no other evidence indicating a hydrological intervals. connection between the Mesa Verde interval and the known sources of drinking water.

XIII Applicants must complete the "Proof of Notice"... Texaco has run the following notice in the Farmington Daily Times:





LEGAL NOTICE INTENT TO DISPOSE OF PRODUCED WATER IN THE SUB-SURFACE

and Production Inc. is re - Farmington, New Mexico questing approval to con - on Sunday, Monday, vert the H. J. Loe Tuesday and Federal B No. 2 to a Wednesday, February 9, water disposal well. The well is located in Sec 23, T29N, R12W at 1850' FNL & 3210' FEL, Unit Letter "G" of San Juan County, New Mexico. The proposed injection interval is within the Mesa Verde Group in the Cliff House and Point Lookout formations. (3250'-3400', 4000', 4200'). The average daily injection rate is inticipated to be 200 BWPD, with a maximum rate of 1000 BWPD. This surface injection pressure is estimated to be at or below 1800 psi. Any questions regarding this notice should be addressed to Ted A. Tipton,

(Continued on next column)

..**.**

Farmington, NM 87401. Interested parties must file objections or request for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87501 within 15 days. 11 I. K. I.

Legal No 28945 published in the Texaco Exploration Farmington Daily Times, .10, 11 and 12, 1992.

> THE DISTRICT IN COURT FOR SAN JUAN, COUNTY STATE OF NEW MEXICO IN THE MATTER OF THE ESTATE OF ORVILLE SCHERER, - 9. C deceased. No. PB-92-7-3 10 NOTICE TO 1, 10 CREDITORS

Raymond L. Hill has been appointed Personal Representative of the Estate of Orville Scherer, deceased. All persons having claims against this estate are required to present their claims within Texaco Exploration and two months after the

(Continued on next column)

PS Form 3811, October 1990 *U.S. GPO: 1990-273-861 DOMESTIC RETURN RECEIPT	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4 & b. Print your name and address on the reverse of this form so the front of the mailpiece, or on the the article number. Article Addressed to: Address to:	SENDER: • Complete items 1 and/or 2 for additional services. I also wish to receive the following services (for an extra charach this form to the realipiece, or on the back if space does not permit. • Attach this form to the front of the malipiece, or on the back if space does not permit. • Attach this form to the front of the malipiece, or on the erticle number. • I also wish to receive the following services (for an extra charach this form to the front of the malipiece, or on the erticle number. • I also wish to receive the following services (for an extra charach this form to the front of the malipiece, or on the erticle number. • Attach this form to the front of the malipiece next to the erticle number. • I also wish to receive the following services (for an extra charasked to you. • Article Addressed to: • I also wish to receive the malipiece, or on the erticle number. • I also wish to receive for extra charasked to you. • Article Addressed to: • I also wish to receive the malipiece, or on the erticle number. • I also wish to receive the form. • Article Addressed to: • I also wish to receive the malipiece next to the malipiece next to the erticle of the malipiece. • I also wish to receive the form. • D. Box • Dors • I also wish to receive the erticle of the malipiece. • I also wish to receive the erticle of the malipiece. • D. Box • Dors • Dors • I also wish to receive to the erticle of the er
PS Form 3811 , October 1990	SENDER: • Complete items 1 and/or 2 for additional services. I also wish to receive the complete items 3, and 4a & b. • Complete items 3, and 4a & b. • I also wish to receive the following services (for an extra to you.) • Print your name and address on the reverse of this form so that we can return this card to you. I also wish to receive the following services (for an extra to you.) • Attach this form to the front of the mailpiece, or on the back if space does not permit. I also wish to receive the feel: • Write "Return Receipt Requested" on the mailpiece next to the article number. I also wish to receive the feel: • Write "Return Receipt Requested" on the mailpiece next to the article number. I also wish to receive the feel: • Write "Return Receipt Requested" on the mailpiece next to the article number. I also wish to receive the feel: • Article Addressed to: I also wish to receive the consult postmaster for fee. • Article Addressed to: I also wish to receive the consult postmaster for fee. • Storature IAddressee! I also wish to receive to to the mailpiece and the is paid. • Signature (Agent) I also the reverse of this form so the form of the mailpiece and fee is paid.	SENDER: • Complete items 1 and/or 2 for additional services. 1 also wish to receive the form of the reverse of this form so the from of the malipiece, or on the back if space does not permit. 1 also wish to receive the form so the from so the from so the from of the malipiece, or on the back if space does not permit. 1 also wish to receive the form so the from so the from so the from of the malipiece, or on the back if space does not permit. 1 also wish to receive the form so the from so the from so the from of the malipiece, or on the back if space does not permit. 1. Addressee's Address • Write "Return Receipt Requested" on the malipiece next to the from of the fro

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XIV. Proof of notification.

SENDER:		I also wish to reasive th
 Complete items 1 and/or 2 for additional services. 		I also wish to receive th
 Complete items 3, and 4a & b. 		tollowing services (for an extr
 Print your name and address on the reverse of this 	form so	fee):
 Attach this form to the front of the mailpiece, or o 	n the	1. 🗌 Addressee's Address
back if space does not permit.		2 D Bastyistad Daliyamy
 Write "Return Receipt Requested" on the mailpiec 	e next to	2. Li Restricted Delivery
the article number.		Consult postmaster for fee.
3. Article Addressed to	4a. Art	icle Number
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AMOCO RODUCTION COMPANY.	4b. Ser	vice Type
	🗀 Regi	stered 🗌 Insured
700 AMOCO CH	Certi	ified COD
LOU ANDES CA.		Receint for
FARMINGTON, NM. 8740)		Merchandise
·	7. Date	of Delivery
	2	-2577
5 Signature (Addressee)	8 Add	assae's Address (Only if request
	and	fee is naid)
Xue flatori	1	
6. Signature (Agent)		
	1	
PS Form 30 11, October 1990 +U.S. GPO: 1990-2734	861 D	DMESTIC RETURN RECEIF
' DBS		
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SENDER:		I also wish to receive the
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the article number		Consult postmaster for fee
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5. Signature (Addressee) Darinett Shelema	8. Addr and f	essee's Address (Univ if requests ee-is paid)
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5. Signature (Addressee) 6. Signature (Agent) PS Form 3811 , October 1990 *U.S. GPO: 1990-273-8	8. Addro and f	DMESTIC RETURN RECEIP



APR 09 '92 07:30 OCD AZTEC NM STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

GARREY CARRITHERS GOVERNOR нкю ліп прадоб лоло Адієс, нігу мехісо 07410 (5051334-0178

P.2

ATTN: DAULD CATANAS

Vale: 4-6-82

Cil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088

Re: Soused MC_____ Sed DHC_____ Sed NSL_____ Froposed SWD_X____ Proposed WFX_____ Proposed PNX_____

Gentlemen:

I have examined the application dated 3-30-72 UC. H.J. LOE FEDERAL Lease & Well No. DEAML B# 2 for the leffer EFP. Operator 23-29N-17W and my recommendations are as follows: TEST CASENCE INSTOR PLUG @ 4500 our CASENCE FO ENSURE THAT ALLOW TESTON 1500 NS4 MAXEMUM DOZSTBLE ZNUECTE RICA TO CASENG LUG TEST TETNSEDA HUN CBL

June Bank



July 15, 1992

REVIEW OF ADMINISTRATIVE ORDER SWD-472

Subject Well: H.J. Loe "B" Federal No.2 1850' FNL & 2310' FEL Sec.23 - T29N - R12W San Juan County, New Mexico

REVIEW BY THE OIL CONSERVATION DIVISION

Under the direction of David Catanach, PE, and at the request of Charlie Gholson, Field Representative II, the mechanical integrity of the aforementioned well was brought into question. The subject well was drilled and completed as a Dakota formation producer on June 24, 1960 and was permitted as a salt water disposal well under administrative order SWD-472 issued April 9, 1992.

THE DIVISION REVIEW FINDS THAT:

- 1) The subject well has a history of leaks affecting the production casing string. It is noted that the casing has parted, ruptured and has an unrecoverable fish in the hole.
- 2) The subject well has been cement squeezed, plugged back with cement and cast iron bridge plugs and subsequently re-entered several times. Consequently, the well has been shut-in for the greater period of 16 years.
- 3) It is inferred through communications by letter, telephone, and hand written memos referring to telephone conversations, contained in the well file, the situation would best be remedied by the plugging and abandonment of the subject well.
- 4) The operator sought approval to drill the H.J. Loe "B" Federal No.2-R as a replacement well, hereinafter referred to as "replacement well".
- 5) The Division approved the drilling of the replacement well. The plugging and abandonment of the original well was not stated as a condition of approval.

- 6) The operator submitted notice to plug and abandon the original well stating a detailed procedure to do so.
- 7) The operator later submitted notice requesting the previous notice be voided, and extended shut-in status be granted.
- 8) During the drilling operations on the replacement well, a blow out occurred at approximately 800 feet. It was surmised that the Ojo Alamo formation may have been charged with gas from casing leaks in the original well.
- 9) At least two (2) workovers in recent years were labeled as "unsuccessful".
- 10) The subject well passed casing integrity tests in September 1988 and July 1989, both held 1000 psi for 15 minutes.
- 11) The last sundry notice indicating plug back operations indicates cement plug back to 3122 feet, however, a current wellbore schematic submitted with form C-108 for authorization to inject, indicates a plug back total depth of 1822 feet.
 - 12) The operators proposal for injection called to once again deepen the well to approximately 4200 feet for injection into the Mesaverde formation.
 - 13) The son of a bitch is smooth wore out!

THE ABOVE FINDINGS ARE EVIDENCED BY:

Copies of sundry notices, applications and memos contained in the well file and attached hereto.

A sing ?		STATE OF NEW ME	XICO				
	FNERGY MINERALS and NATURAL RESOURCES DEPARTMENT						
		OIL CONSERVATION D AZTEC DISTRICT O	IVISION FFICE	•			
	92 NU (Z MT 10 30			1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178			
Date	10/30/92						
Oil (P.O. Santa	Conservation Divis Box 2088 A Fe, NM 87504-208	ion 38					
RE:	Proposed MC Proposed NSL Proposed WFX Proposed NSP		Proposed DHC Proposed SWD Proposed PMX Proposed DD				
Gent	lemen:						
I hav	ve examined the app	olication recei	ved on 10/29	192			
for t	the TEXACO H	LOE B FEI	DERAL #2				
•	OPERATO	JK	LEASE & WEL	JL NO.			
<u>UL-S-</u>	<u>3-29N-12W</u> -T-R	and my rec	ommendations a	re as follows:			
MAX	IMUM PRESSURE	= = 545 psi					
STEP	BATE TEST WA	6 RAN WITH	OUT NOTIFIC	ATION			
10	THE NMOCD -	VE WERE NOT	PREGENT	TO WITNEGS.			
THE	TÉ 6T.		····				
MIT	PASSED ON 9/20	1/92					
Yours	s truly,						

12

Sliama Jaunhurst

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NOTE: DO NOT USE BLUE OR RED INK OR PENCIL ON THIS FORM. THEY WILL NOT REPRODUCE

DATE: 10/29 92 DURGENT	ROUTINE NO. OF PAGES C+Z
MESSAGE TO: NMOCD D.	FAIRHURST
TELEPHONE NO	FAX MACHINE NO
DEPT./DIV./SUBS.	
LOCATION	ROOM NO
MESSAGE FROM: DARREN SE	GREST
TELEPHONE NO. 325-4397	FAX MACHINE NO325-5398
DEPT./DIV./SUBS.	
	ROOM NO
SENDING DEPT. APPROVAL	TIME TRANSMITTED
RETURN ORIGINAL VIA INTER-OFFICE MAIL	RETURN ORIGINAL CALL SENDER TO PICK UP
ADDITIONAL COMMENTS:	
H.J.LUE 2 STEP RATE	TEST INFO
	RECEVED
	OCT 29 1992
	DIL COIN. DAY.



TEVACE EXPLOR & PRODUCTION H. J. LOE B WELL NO. 2 30 MINUTE STEP RATE TEBT DETOBER 19. 1992 2 3/8 TUBING

BONB DEFTH 3750

POINT NG.	TIHE	RATE (BWPD)	GAUGE	FRICTION	CORRECTED	<u>84F</u>
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3	11:52	1275	565	43	\$22	2181
4	12:22	1700	5 9 0	71	519	2177
5	12152	2189	630	114	516	2177
5	1:22	2909	390	178	512	2181
7	1152	3614	805	283	522	2190
8	2:22	4349	935	400	535	2194
ş	2:52	4997	1070	517	553	2208
10	3:22	5639	1200	\$4 9	551	2212
11	3:52	6538	1 380	830	550	2221

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RECEIVED OCT291992 OIL CON. DIV.

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