POST UPFICE BOX 2014 STATE LAND OFFILE BUILDING SANTA FE NEW MERICO 87501

	• Of State of the
APPLIC	ATION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance (Storage Application qualifies for administrative approval? Tyes On
11.	Operator: Amoro Production Company
	Address: P.O. Box 800, Denver Cb 80201
	contact party: Brooke Bell Phone: (303)830-5341
111.	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 ─────────────────────────────────
٧.	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.
У[].	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 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 zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	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.
X11.	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 source 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: Brooke S. Bell Title Sr. Fetroleum Engineer Signature: Dato: 9/14/90

* 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.

Florance SWD No. 2

- III. A. See Injection Well Data Sheet
 - B.1. Names of injection formations are <u>Morrison</u>, <u>Bluff</u>, and <u>Entrada</u>.

(No field or pool name for these formations.)

- 2. The injection intervals of 7500' 8400' will be selected from logs run to total depth. Intervals will be perforated with 4 spf.
- 3. This well will be drilled for the purpose of water disposal.
- 4. No remedial cement work is anticipated.
- 5. The Dakota formation, top 7236', is the next higher formation known to produce gas in this area; there is no known lower oil or gas producing formation.
- VI. There is one well within the area of review inwhich the TD may have penetrated the top of the Morrison by 25 feet. The well is the Florance No. 114. The well has since been plugged back to the Fruitland with a PBTD of 2848 feet. Find attached a copy of Amoco's Scout Ticket information on the subject well. This well does not require remedial action to isolate the proposed injection horizons in the area.
- VII. 1. Rate of disposal will be determined by a step rate injection test. The primary use of the facility will be for disposal of produced water from area Fruitland coal development wells. The amount of water to be injected will depend on this development.
 - The proposed injection system will be designed as a closed system.
 - 3. Maximum injection pressure will be determined by a step rate injection test. Average injection pressure will be kept below this maximum pressure.

Florance SWD No. 2

4. Disposal water will be produced from area Fruitland coal wells. Below are water analyses representative of the water which will be disposed of in the subject well.

	Na	Ca	Mg	K	Cl	HCO3	SO4	CO3	TDS
Florance D-1	6350	20	47	_	2609	11578	0	528	21150
Florance K-3	6430	80	15	10	1560	14700	0	0	22800
Riddle B-1	7121	52	53	-	1705	16378	0	0	25300
Schwerdtfeger 1	7484	32	44	_	994	18544	0	0	27100

Compatibility - Attached is a copy of the results of an Amoco scaling tendency program which supports the source water is compatible with the injection zone water.

- 5. Attached are analyses of water samples from the Blackwood Nichols NEBU # 501, NW 1/4, Section 20, T30N, R7W, Rio Arriba County, New Mexico.
- VIII. The closest overlying aquifers are the Ojo Alamo, Animas, San Jose, and Nacimiento. The Ojo Alamo should be encountered in this well from 1750' to 1927'. There are no known aquifers below the Entrada.

The proposed injection zones are the sandy and porous portions of the Morrison, Bluff, and Entrada formations. At the proposed Florance SWD No. 2 location the zones could be described as follows:

Morrison - light gray to gray, fine grained to medium grained, well rounded and slightly calcareous sandstones. Individual sandstone bodies are expected to be 10 to 50' thick, separated by shales and siltstones. Some sandstones may be slightly arkosic, but generally are quartzitic with some friable sands. Overall depth is estimated at 7508' with overlying unit being Burro Canyon and the underlying unit being type Bluff member. A possible thickness of 400' sand is anticipated.

Bluff - light red to pink to gray, fine grained to medium grained sandstones. Clean, slightly friable, sorted. Individual sandstones are expected to be 10' to 20' thick, separated by shales and siltstones. Overall depth of zone is estimated at 7908' with approximately 300' of porous sandstone. Rests on top of Todilto.

Florance SWD No.2

Entrada - gray to white, hard, fine to medium grained sandstone. Well sorted and well rounded. Depth of zone is estimated at 8350' with the upper 250' being porous sandstone. Rests on Chinle.

- IX. Stimulation will consist of perforating selected porous intervals in the Morrison, Bluff, and Entrada. These intervals will be stimulated using a sand water frac treatment. Details of the design will be based on the logs.
- X. Test information and logs will be provided to the District NMOCD office as available.
- XI. A search of records at the State Engineers Office shows no fresh water wells permitted within a one-mile radius of the proposed location. In addition, a field search of the surrounding area revealed no fresh water wells.
- XII. I hereby certify that I have examined available geologic and engineering data and can find no evidence of connection between the disposal zone and underground drinking water sources

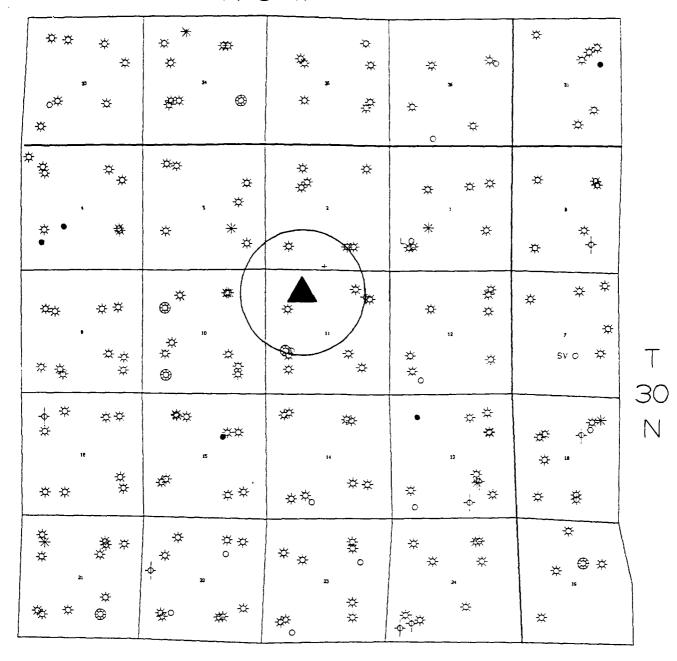
Brooke S. Bell Sr. Petroleum Engineer

XIII. Proof of notice is attached. Copies of the executed receipts for certified mail will be forwarded once they are returned to Amoco from the postal service. Find attached a copy of the Public Notice published in the local newspaper.

INJECTION WELL DATA SHEET

Amoco	Production	Company		Florance	e SWD		
2 -	rator	955' FNL X 1600'		Lease 11		30N	9W
Wel: San J	l No. uan County,	Footage Location New Mexico	on	Section		Township	Range
	Schematic					lar Data	
			Surfa	ace Casi	ng		
			Size	20	"	Cemented with	500 sx.
			TOC	surface	feet	determined by	circulation
			Hole	size _2	6"		
•		≥ 20" csg @ 250'	Inter	rmediate	Casing		
			Size	13 3/8	"	Cemented with	<u>1700</u> sx.
 		13 3/8" csg	TOC S	surface	feet	determined by	circulation
		@ 3160'	Hole	size	17 1/2"		
			Long	String	Interme	diate Casing	
			Size	9 5/8	"	Cemented with	1400 sx.
			TOC _	2800	feet	determined by	bond log
		' 9 5/8" csg 9 5300	Hole	size	12 1/4"		
			Total	L depth	5300		·
				ction in		ected intervals	5)
3 1/2" th	og		750	_		et to 8400	·
			Liner	Long St			
			Size	7	11	Cemented with	700 sx.
			TOC _	5000	feet	determined by	bond log
			Hole	size 8	1/2"		
4	7	7" csg @ 8600'	Total	depth	8600'		
	•	4 (0)		_	_		
		1/2" lined		<u> </u>	(mater	ial)	
	Inverted Lobrand and			_packer	at 745	0 (approx)	feet
(or de	scribe an	y other casing-	-tubir	g seal)	•		
Other	<u>Data</u>						
1. N	ame of th	e injection for	rmatic	n Morris	son, Bluf	f, and Entrada	
2. N	ame of Fi	eld or Pool (if	E appl	icable)	NA		
3. I	s this a	new well drille	ed for	injecti	ion? 🔟	Yes /_/ N	io
I	f no, for	what purpose w	vas th	e well o	original	ly drilled?	
i		ll ever been pe and give pluggi	ing de		acks or		
-							
		epth to and nam (pools) in this averde, 7236' - Da					

R 9 W



AMOCO PRODUCTION COMPANY

Sec II-T30N-R9W

San Juan County

New Mexico

Scale: 2640 Ft/Inch Sept II, 1990

4.

CALCULATED COMPOSITION OF MIXTURE NO. (SR)# =(500)(CA) =(AA) = (FA) = 4810. 136. 31. -(03)=(HC03) ==(402)(CL)= 1 IN MG/L: 2123. 192. 9697. 0

MOLAL IONIC STRENGTH= 0.229

SPECIFIC GRAVITY= 1.012

SCALING TENDENCIES (MG/L):

				> SCALE	IHDEX(MG/L)	
TEHP(F)		CO2(FSI)	CASOA	DAS04	28204	CACOS
80.		0.000	-4515.	·	-335.	1.00 N
110.	4000.0	ଡ.ଡ଼୦ଡ଼	-3342.	<u>-</u>	-354.	301.
140.		0.000	一つのいちょ	-1.	-297.	Z09.
170.		0.000	-1964.	-1.	-141.	316.
200.		0.000	4521.	-1.	-82.	321.

SCALE A POSITIVE SCALE INDEX INDICATES SCALE PRECIPITATION CAN OCCUR WITH THE MAGNITUDE OF THE SCALE INDEX INDICATING THE MAXIMUM AMOUNT WHICH UNSATURATED AND NO SCALE PRECIPITATION WILL OCCUR. COULD PRECIFITATE. A NEGATIVE SCALE INDEX INDICATES THE WATER IS INDEX = ANALYZED CONCENTRATION - EQUILIBRIUM SOLUBILITY

75 SUTTLE S	ITREET .	ATTEN: L	CLARK	DATE SAMPLED:	8/1/88	ATTACHMENT VII	E
FO BOX 2605	•	FO BOX 1237	•	KELL NAME: NEBU	UNII 501	ATTHORNENT VII	5.
DURANGU, CO	81302	DURANGO, CO	81302	LOCALION:			
(303) 247-4		(303) 247-07	28	FORMATION: ENTRE	DA WATER		
			•	SAMPLED FRUM:			
CDS ID 1: 1	119			WELL DM/OFF:		·	
CONSTITUENT		ppn	ep∎				
Sodium	Na +	4760	207.1			•	
Potassium	K +	169	4.3			Item 2A SWD-339	
Calcium	Ca ++	1310	65.4			1	
Hagnesium	Mg ++	29.4-	2.4			,	
Iron Total	Fe++ k Fe+++	164	8.0				
FOSITIVE SUB	-TOTAL	6432.4	287.9779				
Chloride	C1 -	8280	233.5			•	
Carbonate	C93 =	0	0.0				
Bicarbonate	HC03-	152	2.5			•	
Hydroxide	OH -	0	0.0				
Sulfate	S04 =	2100	43.7				
HEGATIVE SUB-	-TOTAL	10532	279.70928				
Total Dissolv	ved Solids	19000 pps.					
pH		5.07 units					
Specific Grav	ity	1.01 £ 73 F.					
Resistivity		45 ohe-a			•		

APPROVED BY:

DR. JOE BOWDEN, DIRECTOR

This Laboratory report may not be published or used for advertising or in connection with advertising of any kind without prior written permission from CDS Laboratories.

Results are based on analysis made at the time samples are received at the laboratory.

75 SUITLE PO BDX 260 DURANGO, C (303) 247-	5 0 81302 4220	FD DU	IEN: L BDI 1237 RANGO; CO D31 247-072	B1302	DATE SANFLED: WELL NAME: NEPU LUCATION: FORMATION: MORR SANFLED FROM:	
CDS ID 1:	1120				WELL DN/DIF:	
CUNSTITUENT	ſ	ppa		epa		
Sodium	Na +	10600		461.1		Item 3A
Potassium	Κ +	1810		46.3		SWD-339
Calcium	Ca ++	685		34.2		<u>;</u> ,
Nagnesium	Mg ++	65.9		5.4		1
Iron Total	Fe++ & Fe+++	230	•	12.4		.
POSITIVE SU	B-TOTAL	13390.9		557.3565		
Chloride	Cl -	18200		513.2		
Carbonale	CO3 =	0		0.0		
Bicarbonate	HC03-	537		E.8		
Hydroxide	DH -	0		0.0		
Sulfate	504 =	1750		36.4		
NEGATIVE SUE	9-IDIAL	20487		558.47643		
Total Dissol	ved Solids	35100 pp	1			
рН		6.71 uni	ts			
Specific Gra	ivity	1.023 € 7	'3 F.			
Resistivity		24 oha	- g			

APPROVED BY:

DR. JUE BUNDEN, DIRECTOR

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Results are based on analysis made at the time samples are received at the laboratory.

Gorbachev if he were Soviet leader.

During the question-and-answer session at Moscow State, Reagan also said he believes "Germany has rejoined the civilized world" and will not repeat Nazi atrocities.

Reagan, in the Soviet Union at Gorbachev's invitation, said. "We should be teaching our students the languages of each others' countries so that we can really cement the friendship."

"If young people like you, in the world, could get to know each other, there would never be another war," he said in the con-ference room of the university's mammoth administration building.

Thatcher proposes code

PRAGUE, Czechoslovakia (AP) - In a peech to Parliament today, British Prime Minister Margaret Thatcher proposed that a 35-nation summit this fall adopt a universal code of rights for Europe and North America

She also urged that the 12-nation European Community offer full member-ship to Czechoslovakia and Eastern Europe's other new democracies as soon as they have introduced Western-style economies.

Mrs. Thatcher also apologized for the 1938 Munich Treaty, in which Britain endorsed Adolf Hitler's division of this Central European nation.

We failed you in 1938, when a disastrous policy of appeasement allowed Hitler to extinguish your independence," she

M&Ms yanked

HONG KONG (AP) — Authorities or-dered all packets of M&Ms candy withdrawn from Hong Kong stores today after an anonymous letter claimed one bag of the candy had been poisoned to punish the U.S. manufacturer for co-sponsoring the Asian Games in Beijing.

The letter, delivered to several newspapers late Monday, says one packet of M&Ms had been laced with sodium cyanide, a deadly poison.

The letter condemns Mars. Inc. of Hackettstown, N.J., which makes M&Ms. for sponsoring the games, which open in Belling on Saturday.

It criticizes China's Communist leaders for their bloody crackdown on a movement for democracy in China in June 1989. Hundreds of unarmed civilians were killed then when the military cleared central Beijing of protesters.

101 Legal

Notice is hereby given that Amoco Production Company, 200 Amoco Court. Farmington. New Me xic o 8 7 4 0 1, 505-327-9200. Attn Buddy Snaw, intends to drill the Pritchard SWD No. 1

oy Snaw, intends to drill the Pritchard SWD No. 1 for use as a water disposal well. Application will be filled with the New Mexico Oil Conservation Division.

Pritchard SWD No. 1 will be located in the NE 4NW4 of Section 34 Township 31 North, Range 9 West. N. M. P. M. The well will be drilled to a total dispth of 8620° and the injection zone will be into the Morrison. Bluff and Entrada formations. Rate of disposal will be determined by a step-rate injection test.

Any persons, firm as socializing a step-rate injection test.

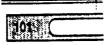
Any persons, firm association, or corporation of the United States of America deeming that the granting of the above application will impair or be cerimental to their waterights may protest in writing the proposal set forth and application should not be approved and must be filed with the Oil and Gas Con (certification small settlement). Any persons, firm as

servation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 days of the date of the last publication of this notice. Legal No. 26477, published in the Farmington Daily Times, Farmington, New Mexico on Tuesday, September 18, 1990.

LEGAL NOTICE

Meridian Or inc , hereby gives notice to the public that under the
provisions of the Natural
Gas Policy Act of 1978
INGPA) it is fling an application for "New Orthers Profunction and

INGPAI it is living an application for "New Ornshore Production and High Cost-Coal Searn Gas" determinations (Section 103 and 107) for the following welfs) located in San Juan County, New Mexico
Lewis Park #100, SW/4 of NE/4 of Section 13, T-31N, R-8W
Written comments by the public will be accepted by District Manager, Bureau of Land Management, 435 Montano Rd., Albuquerdue NM for a 15-day period beyond the date the BLM determines the application to be complete
Legal No. 25438 pub-



Notice Notice is hereby given Notice is hereby given that Amoco Production Company, 200 Amoco Court, Farmington, New Mexico 874 D1.
505-326-9200 Attn Buddy Shaw, intends to drill the Ruddle SWD No. 1 for use as a water disposal well Application will be filled with the New Maxico Dil. Conservation Division.

Oil Conservation
Division
Riddle SWD No. 1 will
be located in the SE/ASE
4 of Saction 16. Township
30 North. Range 9 West.
N.M.P.M. The weh will
be drilled to a total depth
of 8410' and the injection
cone will be in to the Mornson, Bluff, and Entrada
townstions. Rate of disposal will be determined
by a step-rate injection
test.

test.

Any persons, Irm, association, or corporation,
of the United States of
America, deeming that the
granting of the above application will impair or be
detrimental to their water
rights may protest in wriing the proposal set forth in
said application. The
protest shall set forth in
writing all protestant's
reasons why the application should not be approved and must be filed
with the Oil and Gas Conservation Division, P. O.
Box 2088, Santa Fe, New
Maxico 87501, within 15
days of the date of the last
publication of this notice
Legal No. 26478 published in the Farmington
Daily Times, Farmington,
New Mexico on Tuesday,
September 18, 1990 Any persons, firm, as-sociation, or corporation,

Notice is hereby given that Amoco Production Company, 200 Amoco Court, Farmington, New Me x I co 8 7 4 0 1 505-326-9200, Atlin. Buddy Shaw, intends to critical the Florence SWD No 2 for use as a water disposal well Application will be filled with the New Mexico Oil Conservation Division

hied with the New Mexico
Oil Conservation
Division
Florance SWD No 2
will be located in the NE
HANW/4 of Section 11.
Township 30 North.
Range 9 West
N M P M The well will
be dirilled to a total depth
of 8600 and the injection
zone will be in to the Morrison, Buff. and Entrada
tormations. Rate of disposal will be determined
by a step-rate injection
test

by a step-rate injection test

Any persons, firm, as sociation, or corporation, of the United States of America, deeming that the granting of the above asplication will impair or be detrimental to their water that man profess in write. pilication will impair of be detrimental to their water rights may protest in writing the procosal set forth in said application. The protest shall set forth in writing all protestant's reasons why the application should not be approved and must be filled with the Or and Gas Conservation Division. P. O. Box 2088 Santa Fe, New Mexico 87501 within 15 days of the date of last publication of this notice. Legal No. 26476 published in the Farmington New Mexico on Tuesday September 18, 1990.

LEGAL NOTICE Merdian Oil inc on behalf of Southland Royalty Company, hereby gives notice to the public that under the provisions of the Natural Gas Policy Act of 1978 INOPA) it. S faling applications for "New Onshore Production and High Cost-Coal Seam Gas" determinations (Section 103 and 107) for the Collowing well(s) located in following welks) located in San Juan County, New

Mexico: Grenier #101, NE/4 of SW/4 of Section 7, T-31N, R-11W

East Com #105, NE (continued on next sets



T. D. Autry Division Production Manager

Amoco Production Company

Southern Division 1670 Broadway P.O. Box 800 Denver. Colorado 80201 303-830-4040

September 14, 1990

(See Attached Addressee List)

File: KJK-131-WF

Proposed Water Disposal Well Florance SWD No. 2

Dear Sir:

This is to advise you that Amoco Production Company is requesting approval from the Division Director of the New Mexico Oil Conservation Division to drill a water disposal well:

Florance SWD No. 2 955' FNL x 1600' FWL Section 11, T30N, R9W San Juan County, New Mexico

Find attached a copy of the application that is being submitted. Please note that you have 15 days from the date this application is received to file any objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501.

Very truly yours,

7.Dathy/kgk

Attachment

Well Name:

Florance SWD #2

Location:

NE 1/4 NW 1/4 - 11-T30N-R9W San Juan County, New Mexico

Parties to be Noticed:

Land

Surface Owner

Working Interest

T30N-R9W

Sec 2: S 1/2

State of New Mexico

El Paso Production Company

c/o Meridian Oil Inc.

P. O. Box 4289

Farmington, NM 87499-4289

Total Minatome Corporation

P. O. Box 4326

Houston, TX 77210-4326

Amoco Production Company

P. O. Box 800 Denver, CO 80201

Sec 3: SE 1/4

U.S.A.

Conoco Inc.

3817 Northwest Expressway Oklahoma City, OK 73112-1400

Amoco Production Company

Sec 10: E 1/2

U.S.A.

El Paso Production Company

Sec 11: N 1/2, SW 1/4 U.S.A.

Amoco Production Company

Conoco Inc.

Sec 11: SE 1/4

U.S.A.

El Paso Production Company



STATE OF NEW MEXICO

• .

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION ON DIVISION AZTEC DISTRICT OFFICIRES /ED

GARREY CARRUTHERS GOVERNOR

'90 OCT 5 AM 9 30

10(X) NIO NIOAZOS NOAD AZTEC, PIEW MEXICO 07410 (505) 334-0178

Date: 2-3-90 Alt . Latinac
Oil Conservation Division P.O. Box 2008 Santa Fe, NM 87504-2008
Re: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX Gentlemen: Full
<u> </u>
I have examined the application dated 7-24-96
for the Mucco Moduction Car Florence SWD #2 Operator Lease & Well No.
Unit, S-T-R
Approved
Notioned a Division approved cement bond log on any pipe except surface cusing before an intermediate string string set in place.
any pipe except surface cusing before an intermetive
sain his set in place.
Yours truly,
Com Burch

OIL CONSER ON DIVISION RES: JED



'90 OCT 15 AM 9 01 Amoco Production Company

Southern Division 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

T. D. Autry **Division Production Manager** October 10, 1990

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe. NM 87504 Attention: David Catanach

File: KJK-141-WF

New Mexico UIC Permit Applications Florance SWD No.1, Pritchard SWD No. 1, Riddle SWD No. 1 T30N and T31N, R9W, San Juan County

You are in receipt of three underground injection control (UIC) permit applications for the subject wells. The applications outline Amoco's intent to complete the Morrison, Bluff and Entrada sandstones for the purpose of water disposal. As a result of a recent discussion with Tom Hawkins with Meridian Oil, Amoco offers the following information and in exchange Meridian will not object to the approval of the UIC permits.

Amoco intends to complete the Entrada, Bluff and Morrison sandstones that are at least 100 feet below the base of the Dakota Formation. The base of the Dakota Formation will be picked from open hole wireline logs. The pick for the base of the Dakota will be the stratigraphic equivalent to that identified by Meridian in their Pump Canyon SWD No. 1 located in Section 7, T30N, R9W. Meridian has submitted to the NMOCD a depth of 7388 feet for a ground level elevation of 5972 feet above sea level as the base of the Dakota or top of the Morrison. Amoco will review with Meridian the open hole logs and the chosen depth for the base of the Dakota prior to completing Morrison sandstones for the purpose of water disposal.

Meridian had no other objections to the approval of the pending UIC permit applications.

Please contact Brooke Bell in Denver at (303) 830-5341 should you have any questions.

cc: Meridian Oil

T.D. austry/kyk

3535 East 30th Street Farmington, NM 87499 Attention: Tom Hawkins Book Bell

Facsimile Transmission		Addressee's Telecopier Phone 1-(505)827-574	1 1== 1	age of 7
David Catanach	Company Ne	w Mexico Division	Santa Fe New Mexico	
Brooke Bell	Amaco H	Production Co	Denver Colorado	Meil Code/Room 2270
Initiated By	Department		Approved By	
Typed By	Ext.	Mail Code/Room	Call Bender for Pickup of Originals Call for Pickup	at Receiving Location

David,

Find attached copies of receipts for certified mail.

Form 1009 Jun-86

Copies of Receipts for Certified Mail, page 1 Distributed copies of UIC permit applications for the Pritchard SWD No.1, Florance SWD No.2, and the Riddle SWD No.1

SENDER: Complete items 1 and 2 when additional and 4. Put your address in the "RETURN TO" Space on the reversard from being returned to you. The return receipt fee delivered to and the date of delivery. For additional service poetmarter for fees and check beatles for additional service 1. Show to whom delivered, date, and addressee's address of (Extra charge)	will provide you the name of the person this will provide you the name of the person the following services are evallable. Consult (s) requested.
3. Article Addressed to: Oil lonservation Div	2 Article Number 2533 509 954
310 Old Sunta Fe Trl Gunta FE n.M.	Type of Service: Registered Insured Certified COD Express Mail
9750	Aiweys obtain elenature of addresses or agent and DAGL DELIVERED.
8. Signature — Addressee X	8. Addy stee's Addy of VONLY if regressed and pedipolis.
6. Signeture – Agent X	(2) (300) (F)
7. Dete of Delivery	
P8 Form 3811, Mar. 1987 + U.S.Q.RO. 1887-178-266	DOMESTIC RETURN RECEIPT

Pritchard SWD No.1
Florance SWD No.2
Riddle SWD No.1

SENDER: Complete items 1 and 2 when additional a and 4. Put your address in the "RETURN TO" Space on the reversed from being returned to you, The return resolut fee delivered to and the date of delivery. For additional fees to postmester for fees and check bex(so) for additional services 1. Show to whom delivered, date, and addresses's address 1 (Extre charge)?	res side. Failure to do this will prevent this will orguide you the name of the parton he following services are available. Consult (s) requested.
1. Article Addressed to: Conoco In C 3817 NW Expressivy OKlahome City	4. Article Number 1533.509.953 Type of Service: Registered Insured Cortifled COD Express Mali
73112-1400 OK	Always obtain signature of addresses or egent and <u>DATE DELIVERED</u> .
3. Signature - Addresses X. 3. Signature - Agent 7. Data at Celivery	8. Addressee's Address (ONLY If requested and fee paid) — Addless Addressee's Address (ONLY If requested and fee paid)
8 Form 3811, Mar. 1987 # U.S.G.RG, 1987-178-468	DOMESTIC RETURN RECEIPT

Pritchard SWD No.1 Florance SWD No.1 Riddle SWD No.1

SENDER: Complete Items 1 and 2 when additional and 4. Put your address in the "RETURN TO" Space on the revealed from being returned to you. The return receipt feet delivered to and the date of delivery. For additional feet agostmeeter far fees and check box(es) for additional services 1. O Show to whom delivered, date, and addressee's address of state charge)?	erse side. Failure to do this will prevent this will provide you the name of the person the failuwing services are available. Consuit (s) requested.
3. Article Addressed to: Uil lunservation Piv. 1000 Rio Bruzos Ru Hztec N W 87410	4. Article Number 133 509 957 Type of Service: Registered Insured Certified COD Express Mail
01710	Always obtain signature of addresses or agent and DATE DELIVERED.
5. Signature — Addressee X 6. Signature — Agent X 7. Date of Dalivery 9/34/90	8. Addressee's Address (ONLY if requested and fee paid)
PS Form 3811, Mar. 1987 * U.S.Q.RO. 1887-178-288	DOMESTIC RETURN RECEIPT

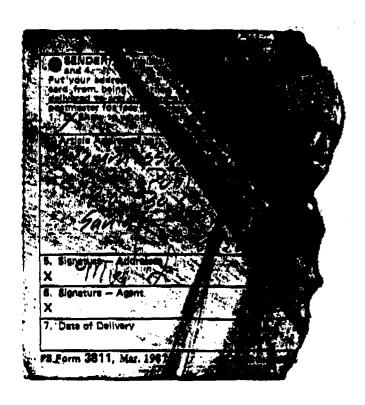
/Pritchard SWD No.1 Florance SWD No.2 Riddle SWD No.1

SENDER: Complete Items 1 and 2 when additional and 4. Put your address in the "RETURN TO" Space on the re- dard from being returned to you. The return receipt to delivered to and the date of delivery. For additional feel postpaster for fees and sheek box(m) for additional service 1. Pushow to whem delivered, date, and addresses's addr- 1 (Extra charge)?	verse side. Failure to do this will prevent this E will provide you the name of the person the following services are available. Consult
El Puso Prod. (o (lo Meridian Dilling Po Box 4289 Farmington NW 8749	4. Article Number 533509956 Type of Service: Registered Insured Contified Con Express Mail
· · · · · · · · · · · · · · · · · · ·	Always obtain signature of addresses or agent and DATE DELIVERED.
Signature - Addressee Signature - Agent Date of Delivery 9-34-91	8. Addressee's Address (ONLY if requested and fee paid)
Form 3871, Mar. 1987 + US.G.RO. 1987-178-268	DOMESTIC RETURN RECEIPT

Pritchard SWD No. 1 Florance SWD No. 2 Riddle SWD No. 1

SENDER: Complete Items 1 and 2 when additional and 4. Put your address in the "RETURN TO" Space on the reveal from being returned to you. The return receipt fee delivered to and the date of delivery. For additional fees postpresser for fees and check box(es) for additional services 1. Show to whom delivered, date, and addressee's address 1/Extra charge;	erse side. Failure to do this will prevent this will provide you the name of the person the following services are evaluable. Consult (s) requested.
3. Article Addressed to: Bureau of Lund Munagemn+ 1235-Lul Plata Huy Forming to m nuh	4. Acticle Number 1
Bill Blackard 87491	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
5. Signature Addressee X Color S. Signature - Agent X 7. Date of Delivery 9-2 (-40)	8. Addresses's Address (ONLY if requested and fee paid) Sumu
8 Ferm 3817, Mar. 1987 # U.S.O.RO. 1987-178-288	DOMESTIC RETURN RECEIPT

Pritchard SWD No.1 Florance SWD No.2 Riddle SWD No.1



Riddle SWD No. 1 (Post Office damaged receipt)

SENDER: Complete items 1 and 2 when additional and 4. Put your address in the "RETURN TO" Space on the recard from being returned to you. The return recaint fe delivered to and the date of delivery. For additional feed postmaster for fees and check box(es) for additional services. 3. Bhow to whom delivered, date, and addressee's additional feet to the service of	verse side. Failure to do this will prevent this a will provide you the name of the cerson the following services are svellable. Consult e(s) requested.
3. Article Addressed to: UNION TEXAS PETROLEUM CORP. P.U. BOX 2120 HUUSTON, TX. 77252	4. Article Number # \$33 509 96 / Type of Sarvice: Registered Insured ## Certified COD Express Mali
ਰ ਰ	Always obtain algnature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee X 6. Signature - Sont X 7. Date of Delivery SEP 25 1990	8. Addresses's Address (ONLY if requested and fee paid) Oz
P8 Form 3811, Mar. 1987 # U.S.G.RO. 1987-178-28	DOMESTIC RETURN RECEIP

Pritchard SWD No.1 Note: Anderson Pritchard Oil Co. became Union Texas Petroleum Corp.

Put your address in the "RETURN TO" space on the card from being returned to you. The return receipt delivered to and the date of delivery. For additional for postmaster fer fees and cheek box(es) for additional ser 1. If show to whom delivered, date, and addressee's at figure charge!	fee will provide you the name of the person (see the following services are evallable, Consult vice(s) requested,
3. Article Addressed to: ORYX ENERGY CU. P.O. BOX 2880 DALLAR, TX 75221	4. Article Number PS33509762 Type of Service: Registered Insured Certified COD Express Meli
15241	Always obtain signature of addresses or agent and DATE DELIVERED.
5. Signature - Addressee X 8. Signature - Abana X 7. Date of Derivery State & Communications	8. Addressee's Address (ONLY if requested and fee paid)

Pritchard SWD No. 1

Note: Texas Pacific
Oil Company
Sucame Sun Co Inc.
Then ORYX

SENDER: Complete Items 1 and 2 when additional and 4. Fut your address in the "RETURN TO" Space on the reviderd from being returned to you. The return receipt feet delivered to and the date of delivery. For additional feet in postmaster for fees and check boxies) for additional service 1. If show to whom delivered, data, and addressee's add	sree side. Failure to do this will prevent this will provide you the name of the serson the following services are available. Consult (s) requested.	
3. Article Addressed to: DEWEY SEXTON COUNTY ROAD 2930 AZTEC, NM 87410	4. Article Number 7533 507 943 Type of Service: Registered Insured Cortified COD Express Mail	Pritchard
· ·	Always obtain signature of addressee or agent and DATE DEDIVERED.	\
8. Signature - Addressee X 8. Signature - Agent X	8. Addresse & Addisor GNEY (f requested and for field)	
PS Form 3811, Mar. 1987 + U.S.C.RO. 1987-179-268	DOMESTIC RETURN RECEIPT	}

Pritchard SWD No. 1

SENDER: Complete items 1 and 2 when additional and 4. Put your address in the "RETURN TO" Spaces on the recard from being returned to you. The return receipt for delivered to and the date of delivery. For additional service postmester for fees and cheek bex(as) for additional service. Show to whem delivered, date, and addresses additional fees and addresses additional fees and addresses additional fees and addresses and fees and addresses.	verse side. Failure to do this will prevent this a will provide you the name of the carpon the following services are evallable. Consult 19(s) requested.
3. Article Addressed to: TOM BOLACK	4. Article Number
3901 N. BIOOMFIELD HWY. FARMINGTON, NM B7401	Type of Service: Registered Insured COD Express Mail
0,101	Always obtain signature of addresses or agent and DATE DELIVERED.
Signatura Addressed	8. Addressee's Address (ONLY if requested and fee paid)
Date of Belivery 4-90	FE
Form 3811, Mar. 1987 + U.S.G.RO. 1967-178-26	DOMESTIC RETURN RECEIPT

Pritchard SWD No.1

SENDER: Complete Items 1 and 2 when additional a and 4. Fut your address in the "RETURN TO" Space on the reversed from being returned to you. The return receipt fee delivered to and the date of delivery. For additional service postpractor for fees and chook boxies) for additional service 1. Eheav to whom delivered, date, and addresses's addresses's addresses's addresses's addresses's addresses of (Extra charge)	res side. Patiure to do this will prevent this will provide you the name of the person the following services are eveilable. Consult (s) requested.	
3. Article Addressed to: Total Minatoms (orp. PO. 130 x 4326 Howston T x 77210-432	4. Article Number + 533 509 964 Type of Service: Registered Insured Certified COD Express Mall	Florance SWD No. 2 Riddle SWD No. 1
7/210 4720	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .	
5. Signature - Addressee X 6. Signature - Agent X 7. Date of Delivery 25 1990	8. Addresses's Address (ONLY if requested and fee paid)	
PS Form 3811, Mar. 1987 + U.S.G.RO. 1967-175-266	DOMESTIC RETURN RECEIPT	

form 3160-5 November 1983)	UNITED STATES	SUBMIT IN TRIPLICATES (Other instructions on re-		
	RTMENT OF THE INTERIC	JR verse side)	S. LEG	
	REAU OF LAND MANAGEMENT		SE-III	
SUNDRY NO	OTICES AND REPORTS C	NWELLS ack to a different reservoir		
	roposals to drill or to deepen or plug be LICATION FOR PERMIT—" for such ar			
OIL GAS XX OTRE		脚。	7. URIT AGREEMENT	
2. NAME OF OPERATOR	10.77 1 1 10HA	INCT 03 1985	S. FARM OR LEASE HAM	
Tenneco Oil Comp	any	0192	Florance	
P. O. Box 3249.	Englewood - CO - 80155	THE CENT	114	The second second
4. LOCATION OF WELL (Report location See also space 17 below.)	on clearly and in accordance with any 8	State requirements.	10. FIELD AND POOL, O	MITDEAS
At surface	Fill w.	SEP 26 1985	Blanco PC/Ba	sin DK
1850' FSL, 860'	FAO.		SURVEY OR AREA	
	7.617	AU OF LAND MANAGEMENT MINGTON RESOURCE AREA HT, CR. etc.)	_Sec11, T30	N R9W
14. PERMIT NO.		art, car, etc.)	12. COUNTY OF PARISE	
16. Charle	6063 GL	· (N · D · C	San Juan	NM
	Appropriate Box To Indicate No			
<u></u>	r 1		ENT REPORT OF:	
FRACTURE TREAT	MULTIPLE COMPLETE	WATER SHUT-OFF FRACTUSE TREATMENT	REPAIRING W ALTERING CA	
SHOOT OR ACIDIZE	ABANDON*	SECOTING OR ACIDIZING	ABANDONMEN	· _
REPAIR WELL (Other)	CHANGE PLANS	(Nors: Report results	. & recomplete of multiple completion	D Wei
17. DESCRIBE PROPOSED OR COMPLETED	OPERATIONS (Clearly state all pertinent	details and give pertinent dates	etion Beport and Log for including estimated date	of starting any
nent to this work.) *	ectionally drilled, give aubsurface location	ons and measured and true vertica	i debrus for all markers	and sones perti-
7107'. Press tst tbg	PC & DK. NDWH. NUBOP. to 2000 psi. Estab inj Tass B cmt. Sting out	rate = 2 BPM & 1600	psi. Sqz'd DK	
down 54 jts. Spot plu Rig up wireline. Set PC perfs from 2855' to out tbghead. Press. t		4949' to 4418' w/10 Pressure test back s ft. Class B. Final p rate Fruitland coal 2	sxs 12 cu. ft. dide to 600 psi dressure 1200 p 2/4" casing gun	Class B., Sqz si. Change as follows:
9/9/85 RIH $w/2-3/8$ " t fluid level was at 180	bg and landed at 2703'. O ft. NDWH. NUBOP. PO	NDBOP. NUWH. Rigg OOH w/2-3/8" tbg. S[ed up to swab. OON.	Final
to 1500 psi. Held o.k w/2000 gal 15% weighte Released pkr and RIH p	re pkr on 2-3/8" tbg and correct to the pkr on 2-3/8" tbg and correct tbg and	o formation w/KCL wtm ers. Good ball action ry w/N2 and POOH w/tb	 Acidized do on. Did not ba 	wn tbg 11 off.
		ior Regulatory Analys	t DATE 9/15	3/25 190
(This space for Federal or State	office use)		LI TEN TOIL HEUL	· · · · · · · · · · · · · · · · · · ·
APPROVED BY	TITLE		OCP49-1 1985	
COMBITTORS OF SEEMOVALL			JINM Sinm	AKEA
	*See Instructions of MM	on Reverse Side BY OCC	71,111 /	************

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.

SUBMIT IN DUPLICATE. UNITED STATES

(See other in-

Form Budget

AMEN

	DEPARTI GI	MENT OF				R		tions on se side)		-373		m.	
	MPLETION (OR RECOM	APLET	ION I	REPORT	AN	D LO	G *	6. IF	INDIAN	, ALLO	TTE	
1s. TYPE OF WEI	LL: OIL WELL	GAS WELL	X D	RT 🗌	Other				7. UN	IT AGRI	EMEN	T NAME	
L TYPE OF COM										-			
WELL X	OVER DEEP-	PLUG BACK	DIF	VR.	Other					RM OR		NAME	
2. NAME OF OPERAS										oran			$\overline{}$
3. ADDRESS OF OPE	il Company								9. WI				
P N Roy	3249 Fnalew	ond. Colo	rado	8 015 5							D P00	L, OR WILDC.	AT
4. LOCATION OF WE	LL (Report location	clearly and in a	ccordance	with an	Binte fequi	renacu	ta) =		// //	,		tured C	
At surface	1850' FSL, 80	60'FWL, Ui	nitl	1 '		<u></u>	マニリ		11. SEC., T., R., M., OR BLOCK AND SURVEY				
At top prod. int	terval reported below	•		1	NOV	r i	laon			R AREA	-	T 0011 5	.014
44 4442 3444					.0,	این	1009		Sec. 11; T30N; R9W				
At total depth			I 14 PE	BMIT NO.	<u>. S. 05010</u>	O A TORE	ISSUED -		12. COUNTY OR 13. STATE				
			11.12		FARMING	TON,	N. 14.		P.	ARISH		1	
15. DATE SPUDDED	16. DATE T.D. REAC	CHED 17. DATE	COMPL.	Ready to	o prod.) 18	3. ELE	VATIONS (I	F. RKB. R		n Jua rc.)*		ELEV. CASING	Mexic
3/2/80	3/12/80	4/8	3/80				63'GL		_, ,	,			
20. TOTAL DEPTH, MD	I	ACK T.D., MD &	rvo 22	IF MUL	TIPLE COMPL	••	23. INT	CRVALS LLED BY		RY TOO	LS	CABLE 7	00L8
7525	7512		<u> </u>		-2 ,	7 7		→	0	-TD		no	
24. PRODUCING INTER	EVAL(8), OF THIS CO	MPLETION—TOP,	BOTTOM,	NAME (1	TO AND TYPE		~ ~ ~ ~)	_		2	5. WAS DIRE SURVEY M	
2855-2903	(Pictured Cl	iffc)		1	-	/ 1	03918	•				Was	
26. TYPE ELECTRIC	•	•			NU	A T	0 1330	· · · · · ·			27. W	yes	BED
TDT, GR/IND				C	IL CCI:E	÷\		MOrs		1		no	
28.		CASI	NG RECO		ort all string			0.0				· Alexandra	
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET			LE SIZE			ENTING	RECORD	J.**		AMOUNT Y	PULLED
9 5/8"	36#	216'		1	1/4"	15	0, TOC	: sur	face	<i>.</i> *			17
7"	23#	3500'			3/4"		4, TOC					· · · · · · · · · · · · · · · · · · ·	<u> </u>
4 1/2"	10.5, 11.6	7523		6	1/4"	45	0, TOC	; sur			77.7		<u> </u>
29: ***	· ·	TEN PROOPS		l		<u> </u>				-1		14 (4) (1)	
BIZE		TTOM (MD)	SACES CE	WENT*	BCREEN (M	m)	30.			RECO		PACKER BE	T (MD)
4 1/2"	3311	7523	450		SCREEN (A		2 3/	1	285			PACEE	7,(20)
		,,,,,						<u> </u>					
31. PERFORATION REC	ORD (Interval, size	ind number)			82.	AC	ID, SHOT	FRACT	JRE, C	EMEN'	T BQU	EEZE, ETC.	
2855-58	2901-03	_			DEPTH IN			AM	UNT A			MATERIAL US	
2864-66	2 SPF	(40 holes))		2855-2	<u> 2903</u>		700				. 60 bal	<u>ls</u>
2869-74									000 gal PAD, 30000# 0/20 sand				
2888-96								10/	20 5	and			
33.*				PROI	DUCTION		 -	<u> </u>					
DATE FIRST PRODUCT	ION PRODUCT	ION METHOD (F	lowing, go			and t	ype of pun	ip)	1	WELL	STATU	s (Producing	g or
4/22/80	flov	ving							1	snu	t-in)	shut-i	n
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N		OIL-BBL.		GAS-M		WATE	B—BBL	.	GAS-OIL RAT	10
4/22/80	3	3/4"	<u> </u>		<u> </u>		Q=666		<u> </u>				
71.0W. TURING PRIME.	297	CALCULATED 24-HOUR RATE	OIL—I	BL.	GAS-		A !	WATER-	BBL.	ŀ	OIL G	RAVITY-API (CORR.)
34. DISPOSITION OF G		l. vented, etc.)			AUI	=75	4	 -	TEST	WITNES	SED R		
vented	,											_	
35. LIST OF ATTACE	MENTS							!					
	of electric												
36. I hereby certify	that the foregoing s	nd attached in	formation	is comp	lete and cr ?:	ect as	determin	ed from	il avai	lable r	ecords		:5.1 <u>5</u>
SIGNED	Killes	Mall	an	LE As	st. Div.	. , A	dmin.	Mana	ger	DATE	, 1	0/30/80	J
												1980	
	7 75 1.	setructions on	4 5	a far A	المدمنة نامام	D-4-	P	L:2	.1			- 1000	