of the earlier submittal.

	CATION FOR AUTHORIZATION TO INJECT
APPLIC	CATION FOR AUTHORIZATION TO INJECT
1.	Purpose: Secondary Recovery Pressure Maintenance, Disposal Storage Application qualifies for administrative approval? Dyes Inc
II.	Operator: Amoco Production Company
	Address: P.O. Box 800 Denver CO 80201
	contact party: Brooke Bell Phone: (303) 830-5341
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? yes no If yes, give the Division order number authorizing the project
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.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
VIII.	Attach appropriate 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.
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 source of drinking water.
O11.	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. Petroleum Engineer Signature: Dato: 9/14/90
	Signature: Dato: 9/14/90
. If fi	ne information required under Sections VI, VIII, X, and XI above has been previously itled, it need not be duplicated and resubmitted. Please show the date and circumstance

- 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 7300' to 8200' will be selected from logs run at 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 7070 feet, is the next higher formation known to produce gas in the area; there is no known lower oil or gas producing formation.
- VI. No wells within the area of review penetrate the proposed injection horizon.
- 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.
 - 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 Florance K-3 Riddle B-1 Schwerdtfeger 1	6430 7121	80 52	15 53	10	1560 1705	11578 14700 16378 18544	0	0	21150 22800 25300 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 1530' to 1600'. 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 Riddle SWD No. 1 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 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 7320' 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 and separated by shales and siltstones. Overall depth of zone is estimated at 7720' with approximately 300' of porous sandstone. Rests on top of Todilto.

Entrada - gray to white, hard, fine to medium grained sandstone. Well sorted and well rounded. Depth of zone is estimated at 8162' 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 will be provided to the District NMOCD office prior to stimulation.

Riddle SWD No. 1

- 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

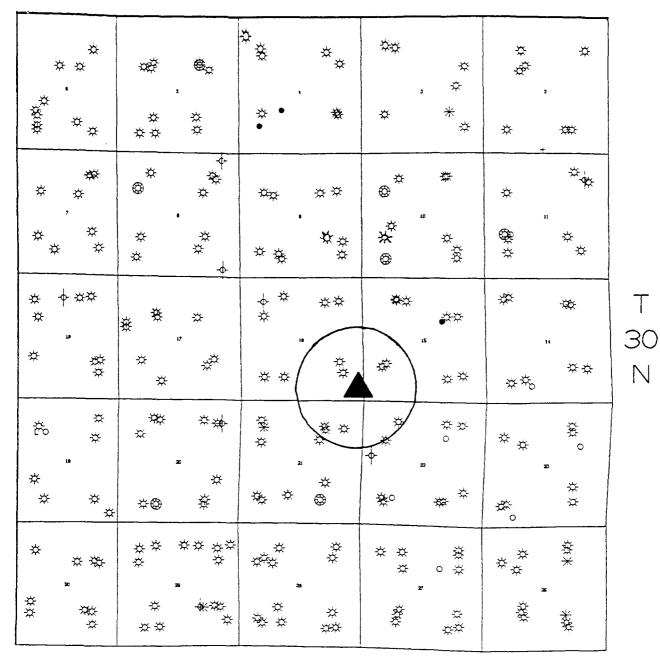
Sr Petroleum Engineer

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		Riddle SWD			
-	Operator 1	610' FSL X 330' F	EL	Lease 16		30N	9W
-	Well No. San Juan County.	Footage Location New Mexico		Section		Township	Range
-	Schematic				Tabul	ar Data	
			Surfa	ace Casing			
			Size	20	ı	Cemented with	640 sx.
			TOC _	surface	feet	determined by	circulation
			Hole	size <u>26"</u>	·		
•	•	▶20" csg @ 300'	Inter	rmediate Ca	asing		
			Size	13 3/8	ı	Cemented with	_1700 sx.
		13 3/8" csg	TOC _	surface	feet	determined by	circulation
		@ 3100'	Hole	size <u>17 1/2</u>	2"		
			<u>Long</u>	Strin g I	ntermed	liate Casing	
			Size	9 5/8	1	Cemented with	1400 sx.
			TOC 2	2800	feet	determined by	bond log
	-	9 5/8" csg @ 5300	Hole	size <u>12 1</u> ,	/4"	•	
		c 7500	Total	depth	5300'		
				ction inter			
3 1/	2" tbg		·	_		ected interval:	•
		•	7300			et to <u>8200</u>	feet
				Long Stri			500
				7 '		Cemented with	
						determined by	bond log
		7" csg		size <u>8 1/3</u>			
	•	@ 8410'	Total	depth 8	410'		
T	ubing size 3	1/2"lined	l with				in a
_	Baker Inverted Lo	k–Set		packer at	mater 725	ial) 50 (approx)	feet
((brand and or describe an	model) y other casing-	tubin	g seal).			
2	ther Data						
1	. Name of the injection formationMorrison, Bluff and Entrada						
2							
3		Is this a new well drilled for injection? (X) Yes (X) No					
		what purpose w		-			
			.	······			
4		ll ever been pe and give pluggi					
	used). No		-	<u> </u>			
5	. Give the d gas zones	epth to and nam (pools) in this	e of	any overly. 2560' - 1	ing a Fruitla	nd/or underlyi	ing oil or ured Cliffs,
	4347' - Mesa	(pools) in this verde, 7070' - Da	kota.				

R 9 W



AMOCO PRODUCTION COMPANY

Sec 16-T30N-R9W San Juan County

New Mexico

Scale: 2640 Ft/Inch Sept II, 1990

90.0 PERCENT FRUITLAND ENTRADA 5.0 PERCENT ; SCALE PREDICTIONS, MIXTURE NO. 1:

5.0 PERCENT MORRISON

CALCULATED COMPOSITION OF MIXTURE NO. 1 IN MG/L: (NA)= 4810. 2123.

4810. (CL)= 2123. 136. (SO4)= 192. 31. (HCO3)= 9697. 0. (CO3)= 0.

(NA)= (CA)=

(MG)= (EA)= =(35)

MOLAL IONIC STRENGTH= 0.229 SPECIFIC GRAVITY= 1.012

SCALING TENDENCIES(MG/L):

292. 301. 309. 316. CACO3 -3335. -354. -297. -141. · SCALE INDEX(MG/L) SRSDA EAS04 -2544. -1964. -4515. -3342 1521 CA504 CO2(FSI) 0.000.0 0000.0 00000 000.0 F(FSI) 4000.0 4000,0 4000.0 4000.0 4000.0 TEMP(F) 80. 110. 40. 170. 200.

THE NAGNITUDE OF THE SCALE INDEX INDICATING THE MAXIRUM AMOUNT UHICH A POSITIVE SCALE INDEX INDICATES SCALE PRECIPITATION CAN OCCUR WITH COULD PRECIPITATE, A NEGATIVE SCALE INDEX INDICATES THE WATER IS SCALE INDEX = ANALYZED CONCENTRATION - EQUILIBRIUM SOLUBILITY UNSATURATED AND NO SCALE PRECIPITATION WILL OCCUR.

	•		. ,	ATIAL
FĢ BOX 260	5	FO BOX 1237	KELL NAME: NEB	
DURANGO, C	D 81302	DURANGO, CO	81302 LOCATION:	
(303) 247-	4220	(303) 247-0	728 FURNATION: EN	TRADA WATER
			SAMPLED FRUM:	
CDS ID 1:	1119		WELL ON/Off:	•
CUNST I TUENT	1	ppn	epm	
Sodium	Na +	4760	207.1	
Potassium	K +	169	4.3	Item 2A SWD-339
Calcium	Ca ++	1310	65.4	i .
,	Mg ++		2.4	!
Iron Total	Fe++ & Fe+++	164	e. 8	
FOSITIVE SUI	9-TOTAL	6432.4	287.9779	
Chloride	C1 -	8280	233.5	
Carbonate	C93 =	0	0.0	
Bicarbonate	HC03-	152	2.5	•
Hydroxide	DH -	0	0.0	
Sulfate	S04 =	2100	43.7	
HEGATIVE SUB	-101AL	10532	279.70928	
Total Dissol	ved Solids	17000 ppm -		
pll		5.07 units		
Specific Gra	vity	1.01 E 73 F.		
Resistivity		45 ohe-a		•

ALTEN:

_L CLARK

DATE SAMPLED:

8/1/88

APPROVED BY

75 SUTTLE STREET

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 SUTTLE PO BOX 260 DURANGO, C	5	ATTEN: FO BOY DURANGO		DATE SAUFLED: WELL HAME: NERU LOCATION:	·	
1303) 247-	4220	(303) 2	147-0728	FORMATION: MURR	ISON FERFS.	
CDS ID 1:	1120		٠	SANFLED FROM: WELL ON/OFF:		
CONSTITUENT		рра	ę	p a		
Sodius	Na +	10600	. 461	.1		Item 3A
Potassium	K +	1810	46	.3		SWD-339
Calcium	Ca ++	685	34	. 2		i .
Kagnesium	Hg ++	65.9	5	.4		1
Iron Total	Feff & Fefff	230	12	. 4		
FOSITIVE SUE	9-TDIAL	13370.9	557.35	65		
Chloride	C1 -	18200	213	. 2		
Carbonate	CO3 =	0	6.	.0		
Bicarbonate	HE03-	537	8.	. 8		
Hydroxide	011 -	0	Ú.	.0		
Sulfate	504 =	1750	36.	. 4		
NEGATIVE SUB	-IDIAL	20487	558.4764	13		
Total Dissol	ved Solids	35100 ppm				
рН		6.71 units				
Specific Gra	vity	1.023 £ 73 F.	4	·		
Resistivity		24 oha-a				

APPRUVED 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

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 inendship.

"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 speech 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

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

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 Beljing.

The letter, delivered to several news papers 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

Notice is hereby given Box 2088, Samia Fe, New that Amoco Production Box 2088, Samia Fe, New Local Farmington, New Legal No. 26477 publication of this notice. Box 2082, Samia Fe, New Mexico 87301, within 15 Company, 200 Amoco i days of the date of the last publication of this notice. Legal No. 26477 publication of this notice. Legal No. 26477 publication of the farmington, for use as a water disposal well. Application will be liked with the New Mexico. Cit. Conservation Division

Priticipard SWD No. 1

William Conservation Mexico Cit. Conservation Division

Priticipard SWD No. 1

William Conservation Mexico Cit. Conservation Cit. Cons

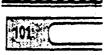
Cil Conservation
Division
Pratchard SWD No 1
will be located in the NE
/4NW/4 of Section 34
Township 31 North,
Renge 9 West
N M P M The well will
be drilled to a total death
of 8620 and the injection sone will be in to the Morrison, Biuft and Entrada
formations. Rate of dislossi will be determined; posal will be determined by a step-rate injection

Any persons, firm as sociation, or comporation of the United States of America Geeming that the granting of the above application will impair or be certimental to their water rights may profest in writing the proposal set forth in writing all protests shall set forth in writing all protestant's reasons why the application should not be approved and must be filled with the Dill and Gas Conference on the composition of the profession and must be filled with the Dill and Gas Conference on the composition of the procession of the composition o Any persons, firm as-

LEGAL NOTICE

Meriotan O. Inc. hereby gives notice to the public that unper the
provisions of the Natural
Gas Policy Act of 1976
INGPA: it is lling an acplication for "New Orshore Production and
High Cost-Coal Seam
Gat" determinations (Section 103 and 107; for the
Sollowing wells; located in
San Juan County, New
Mexico
Lewis Park #100.

San Juan County, New Mexico
Lewis Park #100,
Swi4 of NE/4 of Section 13, 7-31N,
R-8W
Written comments by the public will be accepted by District Manager, Bureau of Lano Management, 435 Montano Rd,
Albuquerus NM for a 15-day period beyond the date the BLM determines the application to be complete.
Legal No 26438 published in the Farmington Daily Times, Farmington, New Mexico on Tuesday, September 18, 1990.



Notice is hereby given that Amoco Production Company 200 Amoco Court, Fermington New Mexico 57401, 505-326-9200 Attn Budby Snaw, intends to drill the Riddle SWD No. 1 for we as a water disposal well: Application will be fried with the New Mexico Oii Conservation

thed with the new matter of it. Conservation Drisson. Riddle SWD No. 1 will be located im the SE/4SE A4 of Saction 156. Township 30 North. Range 9 West, N.M. P. M. Tips with will be drilled to a total opith of 8410° and the injection zone will be in to the Mornson. Built, and Entited townstoms. Rate of disposal will be determined by a step-rate injection test.

Any persons, firm, as-

Any persons, firm, association, or corporation, of the United States of America, deeming that the grafting of the above application will impair to be detrimental to their water rights may protest in writing the proposal set forth in said application. The protest said application, and applications why the application should not be approved and must be filled with the Dit and Gas Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 Any persons, firm, as-sociation, or exporation. Box 2088. Sants Fe, New Mexico 87501, within 15 days of the date of the last publication of this notice Legal No. 26478 published in the Farmington Daily Tymes, Farmington, New Mexico pr. Tuesday, Sentember 18, 1990.

September 18, 1990

Notice is hereby given that Amoco Production Company, 200 Amoco Court. Farmington. New Mexice 57401.505-326-9200, Attn. Budstant Shaw means to drill bub-326-9200, Attn bub oy Shaw, mienos to drul the Fiorance SWD No 2 for use as a water disposal well - Application will be filled with the New Mexico Oil Conservation

hied with the New Mesico
Oil Conservation
Division
Florance SWD No 2
will be located in the NE
JANWIA of Section 11,
Township 30 North,
R an ge 9 West will
be divided to a total depth
of 8600 and the injection
rome will be in to the Morrison, Bluff, and Entrada
formations. Rate of dispossal will be determined
by a steb-rate injection
test:
Any persons, firm, as
sociation or corporation,
of the United States of
America, deeming that the
granting of the above application will impay or be
determined to their water
inghts may protest in writinght to protest in the contract of the consultation.

pication will impair or be detrimental to their water rights may profest in writing the process shall set forth in said application. The profest shall set forth in writing all protestant's reasons why the application should not be approved and must be filled with the Oil and Gas Conservation Division. P. O. Bot. 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
Meridian Qii inc on
behalf of Southland Royalty Company, hereby
g-ves notice to the public
that under the provisions
of the Natural Cas Policy
Act of 1978 INGPA, it;
filling applications for
"New Onshore Froduction
and High Cost-Coal Seam
Gas" determinations (Section 103 and 107) for the
following welks) located in
San Juan County, New
Mexico:
Grenier #101, NE/4
of SW/a et Section
7, 7-31N, R-11W
East Com #105, NE
(mattered en neat antered) LEGAL NOTICE



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-133-WF

Proposed Water Disposal Well Riddle SWD No. 1

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:

Riddle SWD No. 1 610' FSL x 330' FEL Section 16, 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,

TiD auting /10/K

Attachment

Well Name: Riddle SWD #1

Location: SE 1/4 SE 1/4 - 16-T30N-R9W

San Juan County, New Mexico

Parties to be Noticed:

<u>Land</u>	<u>Surface Owner</u>	<u>Working Interest</u>
<u>T30N-R9W</u> Sec 15: N 1/2	U.S.A	El Paso Production Company c/o Meridian Oil Inc. P. O. Box 4289 Farmington, New Mexico Total Minatome Corporation P. O. Box 4326 Houston, TX 77210-4326
Sec 15: S 1/2	U.S.A.	Amoco Production Company P. O. Box 800 Denver, CO 80201
Sec 16: All	State of New Mexico	Amoco Production Company Conoco Inc. 3817 Northwest Expressway Oklahoma City, OK 73112-1400
Sec 21: N 1/2	U.S.A.	Amoco Production Company Conoco Inc.
Sec 22: NW 1/4	U.S.A.	Amoco Production Company Conoco Inc.

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 a 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 data of delivery. For additional services postmester for fees and check bexides for additional services 1. Show to whom delivered, date, and addresses's address of (Extra charge)	with provide you the name of the person the following services are svellable. Consult (s) requested.
3. Article Addressed to: 0:11 lunservation 0:2 310 01d Sunta Fe Trl Gunta FE N.M.	Article Number 2533509954 Type of Service: Registered Insured Certified COD Express Mail
9750	Always obselenature of addressee or agent and DATE SELIVERED.
5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery	* Add all 1 Add A ONLY () real sted and experient (Sept. 1) Fr
PS Form 3811, Mar. 1987 * U.S.G.RO. 1887-178-268	DOMESTIC RETURN RECEIPT

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

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return reselect fee will provide you the heme of the parson delivered to and the date of delivery. For additional fees the following services are available. Consult postmeeter for fees and cheek bex(es) for additional service() requested. 1. Show to whom delivered, date, and addresses's address. 2. Restricted Delivery (Extre charge)?				
3. Article Addressed to:	4. Article Number			
Conoco Inc	V 533.509.953			
3817 NW Expressivy	Registered Insured			
OKlahome City	□ Contilled □ COD			
ORIGINAL CIFY	☐ Express Mail			
73112-1400°OK	Always obtain signature of addresses or egent and <u>DATE DELIVERED</u> .			
5. Signature - Addresses	8. Addresses's Address (ONLY if requested and fee paid)			
X	SANE			
6. Signeture—Aspire	1841.0			
	-			
7. Dare of Celivery				
U1-25-70				
PS Form 3811, Mar. 1987 # U.S.G.RO. 1967-178-269	DOMESTIC RETURN RECEIPT			

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

SENDER: Complete items 1 and 2 when additional s and 4. Put your address in the "RETURN TO" Space on the reve card from being returned to you. The return receipt fee delivered to and the date of delivery. For additional fees to gostmeeter for fees and check bexies for additional serviced 1. O show to whom delivered, date, and addresses's address of Extra charge)	rse side. Failure to do this will prevent this will provide you the name of the parson the following services are available. Consult (s) requested:
3. Article Addressed to: Uil lunservation Piv. 1000 Rio Bruzos Rd Hztec N M 87410	4. Article Number 1533 509 957 Type of Service: Registered Insured Certified COD Express Mall
8/710	Always obtain signature of addresses or agent and DATE DELIVERED.
5. Signature - Addressee X 6. Signature - Agent X 7. Date of Delivery	8. Addressee's Address (ONLY if requested and fee paid)
PB Form 3811, Mar. 1987 + U.S.G.RO. 1887-178-268	DOMESTIC RETURN RECEIP

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

SENDER: Complete Items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the parson delivered to and the date of delivery. For additional fees the following services are available. Consult postgraster for fees and check box(ss) for additional service(s) requested. 1. D. Show to whom delivered, date, and addresses's address. 2. C. Restricted Delivery † (Extra charge)†				
3. Article Addressed to: £1 Puso Prod. (0	4. Article Number \$533504956			
Comeridian Oilline PO Box 4289 Farmination Nun	Type of Service: Registered Insured Certified COD Express Mail			
87499	Always obtain signature of addresses or sgent and DATE DELIVERED.			
5. Signature – Addressee X	8. Addressee's Address (ONLY If requested and fee paid)			
6. Signature - Agent X Oct				
P. Date of Delivery 9-24-01				

± U.S.G.RO. 1967-176-268

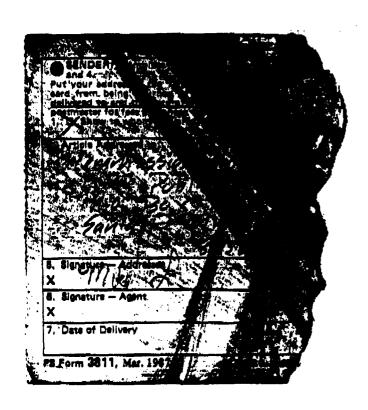
DOMESTIC RETURN RECEIPT

PS Form 3811, Mar. 1987

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 addressee	erse side. Fallure to do this will prevent this will dray(de you the name of the person the following services are evaluable. Consult of requested.
3. Article Addressed to:	4. Acticle Number
Bureau of Lund Munagemn+ 1235- Lai Plata Huy	1533 509 955
Munagemn+	Type of Service: Registered Insured
1235- hal Plata Huy	Certified COD
Farmington nun	2 Express Mail
Bill Bluckard 87491	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
5. Signature Adeligasee	8. Addresses's Address (ONLY if
x X. rou-	requested and fee paid)
6. Signature - Agent	Jume
<u>× </u>	_
7. Dete of Delivery 9-2 U-90	
8 Form 3811, Mar. 1987 * U.S.G.RO. 1967-178-268	DOMESTIC RETURN RECEIP

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 services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return reseint fee will provide you the name of the derson delivered to and the date of delivery. For additional fees the following services are svallable. Consult postmaster for fees and check box(es) for additional services(s) requested. 1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge):				
3. Article Addressed to: UNION TEXAS PETROLEUM CORP. P.O. BOX 2120	4. Article Number #53350996/ Type of Sarvice:			
HUUSTON, TX.	Registered Insured SCentified COD Express Meli			
<u> </u>	Always obtain signature of addresses or agent and DATE DELIVERED.			
6. Signature - Addressee X 6. Signature - Agent X	8. Addresse's Address (ONLY If requested and fee paid) On			
7. Date of Belivery SEP 25 1990 P8 Form 3811, Mar. 1987 # U.S.G.RO. 1987-178-288	DOMESTIC RETURN RECEIPT			

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

telivered to and the date of delivery. For additional contraster for fees and check box(es) for additional seems of the se	SBITVÍGA(S) FRQUESTRA,
Article Addressed to:)RYX ENERGY CU.	4. Article Number P 533 539%
00. BOX 2880 PALLAS, TX 7533	Type of Service: Registered Insured Certified COD Express Mail
75221	Always obtain signature of addresses or agent and DATE DELIVERED.
Significant Addresses	8. Addresse's Address (ONLY if requested and fee paid)

Pritchard SWD No. 1
Note: Texas Pacific
Oil Company
Escame Sun Co Inc.
Then ORYX

Put your address in the "RETURN TO" Space on the revised from being returned to you. The return receipt fee delivered to and the date of delivery. For additional fees postmester for fees and check boxies for additional service 1. Show to whom delivered, data, and addressee's addres	ered, date, and addressee's address. 2. 🖸 Restricted Delivery	
DEWEY SEXTON COUNTY ROAD 2930 AZTEC, NM 87410	4. Article Number S33 SD7 963 Type of Service: Registered Insured Contified Con Express Mall Always obtain signature of addresses or agent and DATE DENVERED.	Pritchard SWD No.
5. Signature - Addresses X 6. Signature - Agent X / V / Y / Y / Y / Y / Y / Y / Y / Y / Y	8. Addressed Address PONLY if requested and folipped 24	

SENDER: Complete items 1 and 2 when edditional and 4. Put your eddress in the "RETURN TO" Spaces on the reveal of from being returned to you. The return resolut fee delivered to and the data of delivery. For additional fees a postgraster for fees and check beakes for edditional services 1. D Show to whem delivered, date, and addresses's address 1. Extra charge;	Pee side. Fallure to do this will prevent this will provide you the name of the person he following services are evallable, Consult (a) requested.
3. Article Addressed to: TOM BOLACK	4. Artich Number
3901 N. BIOOMFIELD HWY. FARMINGTON, NM "	Type of Service: Registered Insured Certified COD Express Mail
01401	Always obtain signature of addresses or agent and DATE DELIVERED.
5. Signatura Addressed	8. Addresses's Address (ONLY if requested and fee paid)
8. Signaroje - Agent E:	P
Date of Delivery 4-90	FE
Form 3811, Mar. 1987 + U.S.Q.RO. 1907-178-288	DOMESTIC RETURN RECEIP

Pritchard SWD No.1

SENDER: Complete Items 1 and 2 when additional and 4. Fut your address in the "RETURN TO" Space on the reverser from being returned to you. The return receipt fee delivered to and the date of delivery. For additional fees to postpraster for fees and check box(es) for additional services 1. If Show to whom delivered, date, and addresses's addresses's addresses's charge)?	was side. Failure to do this will prevent this will provide you the name of the person the following services are evallable. Consult (s) requested. 2. If Hestricted Delivery 1/Extra charge/†	
3. Article Addressed to: 1 otal Minatoms (orp. 80. 130 × 4326 Houston T × 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
•	Always obtain signature of addresses or agent and <u>DATE DELIVERED</u> .	1)
5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery	8. Addresse's Address (ONLY if requested and fee paid)	
PS Form 3811, Mar. 1987 + U.S.G.RO. 1967-178-266	DOMESTIC RETURN RECEIPT	

A DIVISION







W.R. HUMPHRIES COMMISSIONER

Commissioner of Public Lands

P.O. BOX 1148 SANTA FE. NEW MEXICO 87504-1148

September 25, 1990

5WP-404

Mr. David Catanach Energy, Minerals, & Natural Resources Dept. Oil Conservation Division State Land Office P. O. Box 2088 Santa Fe, New Mexico 87504

Application for a Salt Water Disposal Easement

Dear Mr. Catanach:

Application is being made to Oil Conservation Division from Amoco Production Company for approval of a salt water disposal in Section 16, Township 30 North, Range 9 West, within the $SE_{4}^{1}SE_{4}^{1}$, San Juan County.

The Commissioner of Public Lands has no objections at this time for your approval of the above application. However, the Commissioner reserves the right to refuse to grant a salt water disposal easement when it would be detrimental to the Trust.

If you have any questions, please call us at 827-5724.

Simmerely,

Maes

Commercial Resources

LRM/d1

OIL CONSER. ON DIVISION RE ZED



'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. autry/byk

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



STATE OF NEW MEXICO

GARREY CAPRUTHERS GOVERNOR

'90 OCT 5 AM 9 30

1000 FIIO HIDAZOS NOAD AZ FEC, NEW MEXICO 07410 (505) 334-0178

Date: 10-3-90
Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088
Re: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PNX
Gentlemen:
I have examined the application dated 8-24-50
for the Twoco froduction for Ribelle Still #1 Operator Lease & Well No.
Unit, S-T-R
Approve
Recomend a Division approved come bond log
intermediate casing string is set in place. Yours truly,
Eng Bank