### State of New Mexico





THE STANTE OF STORE O

JIM BACA COMMISSIONER

### Commissioner of Public Lands

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

March 18, 1991

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

Re: Application for a Salt Water Easement

Dear Mr. Catanach:

Application is being made to Oil Conservation Division from Yates Peteroleum Corporation for approval of a Salt Water Disposal in Section 21, Township 10 South, Range 27 East located within  $SE_4^{\frac{1}{4}}NW_4^{\frac{1}{4}}$  (Chaves 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 easement when it would be detrimental to the Trust. As you know, the applicant has a right under his valid oil and gas lease to dispose of the salt water subject to your approval. However, if he is going to inject salt water from other wells outside of the lease premises he will have to apply for a salt water disposal easement from use.

If you have any questions, you may contact Leo Maes at 827-5725.

Sincerely,

Pleas M. Glenn

Assistant Commissioner

PMG/LM/d1

cc: Date File

POST OFFICE BOX 2018 STATE LAND OFFICE BUILDING

OIL CONSERVATION DIVISION FORM C-108
POST OFFICE BOX 2018
BTATE LAND OFFICE BUILDING

APPLIC	CATION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X yes no
II.	Operator: Yates Petroleum Corporation
	Address: 105 S. 4th Street, Artesia, NM 88210
	Contact party: Jim Brown Phone: (505) 748-1471
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 X 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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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.).</li> </ol>
111.	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.
111.	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: Jim Brown Title Operations Engineering Supervis
	Signature: Date: 3-8-91

### 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, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- 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.

### C-108

### Application For Authorization To Inject Yates Petroleum Corporation Pathfinder "AFT" State # 13 F 21-10S-27E Chaves County, New Mexico

- I. The purpose of completing this well is to make a disposal well for produced Fusselman and San Andres water into the Fusselman formation.
- II. Operator: Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210 Jim Brown (505) 748-1471
- III. Well Data: See Attachment A
  - IV. This is not an expansion of an existing project.
  - V. See attached map, Attachment B
- VI. Tabulation of data on all wells within area of review which penetrate the proposed injection zone. (See Attachment C.)
- VII. 1. Proposed average daily injection volume approximately 1500 BWPD.

  Maximum daily injection volume approximately 3000 BWPD.
  - 2. This will be a closed system.
  - 3. Proposed average injection pressure--1000 psi Proposed maximum injection pressure--1200 psi.
  - 4. Sources of injected water would be produced water from the Fusselman and San Andres. (See Attachments D & E.)
  - 5. See Attachment F.
- VIII. 1. The proposed injection interval is the portion of the Fusselman formation consisting of porous dolomite from depths of 6442' to 6729'.
  - 2. Fresh water zones overlie the Fusselman formations at depths to approximately 400'.

Application for Authorization to Inject Pathfinder "AFT" #13

- IX. The proposed disposal interval will be acidized with 25,000 gallons of HCl.
- X. Logs were filed at your office when the well was drilled in February, 1991.
- XI. The approximate location of the nearest fresh water well is in the SW/4 of the NW/4 of Sec 22, T10S, R27E. (Attachment G)
- XII. Yates Petroleum Corporation has shot eight seismic lines in Section 21-10S-27E. On the basis of this extensive data, Yates Petroleum's Geology staff can say unequivocally that there is no evidence of faulting above the Wolfcamp formation.

### XIII. Proof of Notice

- A. Certified letters sent to the surface owner and offset operators-attached. (Attachment H)
- B. Copy of legal advertisement attached. (Attachment I)
- XIV. Certification is signed.

### Yates Petroleum Corporation Pathfinder "AFT" State #13 F 21-10S-27E

### Attachment A Page 1

### III. Well Data

- A. 1. Lease Name/Location:
  Pathfinder "AFT" State #13
  F 21-10S-27E
  2310' FNL & 1850' FWL
  - 2. Casing Strings:
    - a. Present Well Condition
      7" 23# and 26# J-55 set at 6750
      Float collar at 6708
      D. V. tool at 4009

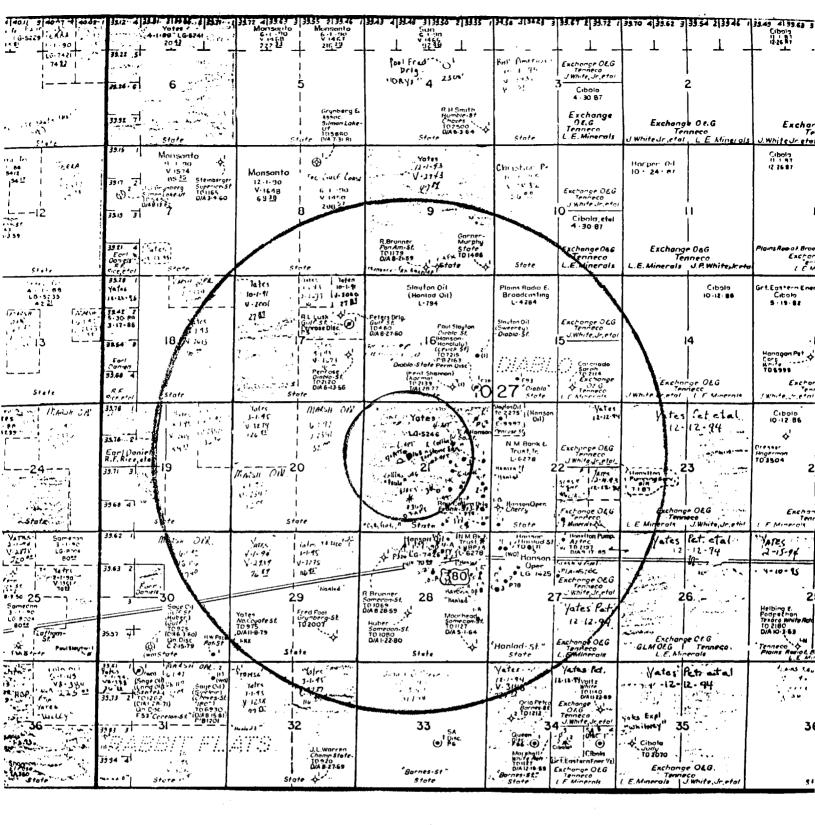
Cement circulated both stages.

- 3. Proposed well condition:
   Casing same as above
  2 7/8" or 3 1/2" plastic coated tubing.
- 4. Propose to use Guiberson or Baker plasticcoated or nickel-plated packer set at 6400'.
- B. 1. Injection Formation: Diablo (Fusselman)
  - Injection Interval will be through perforations from approximately 6442-6729'.
  - 3. Well was originally drilled for Fusselman producer.
  - 4. Other Perforations: None
  - 5. Next higher (shallower) oil or gas zone within 2 miles--San Andres at 2100' Next lower (deeper) oil or gas zone within 1/2 mile--None

## YATES PETROLEUM CORP. PATHFINDER "AFT" STATE #13 SEC. 21 - 10S - 27E UNIT F 2310' FNL & 1850' FWL

	رح		
San Andres 1414'			
Glorieta 2603'		13	
Yeso 2684'			9 5/8" 36# J-55 cemented at 1001" w/275 sx., circulated
Abo 4850'			
Volfcamp 5526'			
Cisco 6085'			DV Tool at 4009'
Penn Clastics 6211'			
Mississippian 6309'			
Siluro-Ordivician (Fusselman) 6360'			
			Perforated Fusselman from 6442' - 6729'
	TD-6750	,	7' 23# & 26# J-55 to 6750' cement circulated in 2 stages w/1945 sx.

-SKETCH NOT TO SCALE-



### YATES PETROLEUM CORPORATION

PATHFINDER "AFT" STATE #13

PROPOSED SALT WATER DISPOSAL WELL

SEC 21-T10S-R27E

2310'FNL & 1850'FWL

CHAVES COUNTY, NEW MEXICO

ATTACHMENT B

Pathfinder "AFT" State #13 Form C-108

Tabulation of Data on Wells Within Area of Review

Well Name	Operator	Туре		Completed	Total Depth	Producing Zone	Perforations	Completion Information
Pathfinder "AFT" State #6 F 21-10S-27E	YPC 011 12/26/89	010		03/05/90	6900′	Fusse(man	6360'-6440' 6452'-6467'	03/05/90 6900' Fusselman 6360'-6440' 8 5/8" อิ 1430' พ/700 รx 6452'-6467' 5 1/2" อิ 6900' พ 785 รx
Pathfinder *AFT* State #12 G 21-10S-27E	YPC	110	01/05/91	02/24/91 6435' Fusselman	6435'	Fusselman	6400'-6401' 6407'-6408'	6400'-6401' 9 5/8" a 1000' w/700 sx 6407'-6408' 7" a 6500' w/1300 sx
Pathfinder "AFT" State #11 J 21-10S-27E	YPC	011	11/30/90	01/07/91 6430' Fusselman	6430'	Fusselman	6387'-6397'	6387'-6397' 9 5/8" a 1000' w/200 sx 7" a 6430' w/1300 sx
Pathfinder "AFT" State #3 K 21-10S-27E	YPC	110	01/20/90	01/24/90 6650'	<b>6650'</b>	Fusselman	6386'-6392' 6401'-6402' 6408'-6415'	6386'-6392' 8 5/8" @ 622' w/300 sx 6401'-6402' 5 1/2" @ 6650' w/910 sx 6408'-6415'
Pathfinder "AFT" State #9 N 21-10S-27E	YPC	Gas	09/05/90	10/22/90 6410'	6410'	Fusselman	6295'-6378'	6295'-6378' 10 3/4" a 997' w/775 sx 7 5/8" a 6410' w/1825 sx
Pathfinder "AFT" State #10 0 21-10S-27E	YPC	011	10/02/90	11/09/90 6415'	6415'	Fusselman	6376'-6384'	6376'-6384' 10 3/4" a 1005' w/650 sx 7 5/8" a 6415' w/1600 sx 2 7/8" a 6294'
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### HALLIBURTON DIVISION LABORA: 1Y

### HALLIBURTON SERVICES

### ARTESIA DISTRICT

### LABORATORY REPORT

No. W123, W124, & W125-90

Date March 22, 1990

TO Mr. Mike S	later		Date March 22, 1990
Yates Petr	oleum Corporation		
105 South	Fourth Street	thereof, nor a copy to the express whiten	roperty of Makburon Services and neither 8 nor any part hereof is to be puckahed or disclosed winnout linst securing approval of loboratory management, it may however, by
Artesia, N	M 88210		fregular business operations by any person or concert and receiving such report from Hallburton Services
Submitted by		Date Rec	March 22, 1990
Well No. Pathfinde	r	Depth	Formation Fusselman
Field Sec. 21, T	20S, R 27E	County Chaves	Source
	CASING	TUBING	PATHFINDER AFT #6
Resistivity	0.042 @ 75°	0.118 @ 75°	0.12 @ 75°
Specific Gravity	1.174	1.043	1.037
pli	5.65	6.65	6.60
Calcium	1,099	1,648	1,539
Magnesium	3,064	599	200
Chlorides	,160,000	37,000	32,000
Sulfates	Less than 200	Less than 200	Less than 200
Bicarbonates	275	580	702
Soluble Iron	10	0	0
		-	
		-	
Remarks:	Rook	$\frac{1}{2}$	
	Respect	civily submitted	

Analyst: Rocky Chambers - Field Engineer

HALLIBURTON SERVICES

### LILIBURTON DIVISION LABORATOR

ATTACHMENT E

	LABOI	RATORY REP	ORT	No	W38	1-90	
Yates Pet	roleum Corporatio	n		Date	July 1	3, 1990	
	Fourth Street		thereof, nor a copy to the express whiteh	hereof is to be pur approval of tobo Tregular business	Dished or disclose ratory menageme operations by any	nemer 4 nor any part d wirous brat securing rd, a may however, be person or concern and on Services	
Submitted by			Date Rec	. July	13, 19	990	
Well No. Pathfind	er AFT	_Depth	·	_Format	ion Sar	Andres	
Field		County		_Source		UCED WA	TER
Resistivity	0.055 @ 70°						
Specific Gravity	1.1509 @ 70°				4		
рН Но	7.0						
Calcium	4,380					• .	
Magnesium	1,839						
Chlorides	137,000	~					
Sulfates	Heavy						
Bicarbonates	488						
Soluble Iron	0	<del></del>		-			•
		-		————			
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· Charles							
	Respect	fully subm	itted				

This report is for information only and the content is limited to the sample described. Haliburion makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this record express Mathematical Test and the Sample for any loss or demands in regardless of the contents of the Sample for any loss or demands.

HALLIBURTON SERVICES

NOTICE:

Analyst: Eric Jacobson - Field Engineer

### HALLIBURTON DIVISION LABORA! 1Y

### NALLIBURTON SERVICES ARTESIA DISTRICT

### LABORATORY REPORT

No. W123, W124, & W125-9

HALLIBURTON SERVICES

TO Mr. Mike S	later			Date March 22, 1990
	oleum Corporation Fourth Street M 88210		The sof not a copy the The express whiten ap used in the course of re	early of Habiburion Services and newher 8 nor any pertited is he published or disclosed winous hind securing approval of lebonstory management, it may however, be quiter business operations by any person or concern and serving such report from Habiburion Services.
Submitted by			Date Rec.	March 22, 1990
Well No. Pathfinde	r AFT #3	Depth		Formation Fusselman
Field Sec. 21, T	20S, R 27E	County Cl	inves	Source
	CASING	TUF	BINC	PATHFINDER AFT #6
Resistivity	0.042 @ 75°	0.118	3 @ 75°	0.12 @ 75°
Specific Cravity	1.174	3.043	}	1.037
рП Пд	5.65	6.65		6.60
Calcium	1,099	1,648	3	. 1,539
Magnesium	3,064	599	)	200
Chlorides	.160,000	37,000	)	32,000
Sulfates	Less than 200	Less th	ian_200	Less than 200
Bicarbonates	275	580	)	702
Soluble Iron	10	0		0
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		-		
Remarks:			,	
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Analyst: Rocky Chambers - Field Engineer

### HALLIBURTON DIVISION LABORATORY

ATTACHMENT G

	LABO	RATORY REP	PORT	No. W335-90
Yates Pet	roleum Corporati	lon	D	ate June 8, 1990
105 South	Fourth Street			
Artesia,	NM 88210		thereof, nor a copy thereof the supress written appro- used in the course of regul	y of Hahburton Services and neither 4 nor any per i et to be published or disclosed without first securi- rial of leboratory menagement, 4 may however, b or bueness operations by any person or concom an ing such report from Hahburton Services
Submitted by			Date Rec	June 8, 1990
Well No.		Depth	F	ormation
Field		County	S	ource
- Resistivity	4.73 @ 70°			
Specific Gravity	1.0016 @ 70°	<del></del>		
pH	7.0			
Calcium	9 3-0			
Magnesium	70	-,		
Chlorides	600			***************************************
Sulfates	200			**************************************
Bicarbonates	275			
Soluble Iron	0			***************************************
		<del></del>	•	
	dmill SW/4 NW/4 Pathfinder #7	of Sec. 2	22, T 10S, R	27E
	£ 1	) Cardon		
Analvet: Eric Jacob	Respection - EIT	tiully submi	Ltted	HALLIBURTON SERVICES

This report is for information only and the content is limited to the sample described. Halliburton makes no warrankes, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be hable.

ATTACHMENT H

### CERTIFIED RETURN RECEIPT

Hanson Operating Company United Bank Plaza 400 N. Pennsylvania, Suite 1200 Roswell, New Mexico 88201

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Pathfinder "AFT" State #13 located in Unit F of Section 21-T10S-R27E.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Operations Engineering Supervisor

JB/th

CERTIFIED RETURN RECEIPT

Plains Radio & Broadcasting Co. P. O. Box 9354 Amarillo, Texas 79105

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Pathfinder "AFT" State #13 located in Unit F of Section 21-T10S-R27E.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Operations Engineering Supervisor

JB/th

### CERTIFIED RETURN RECEIPT

Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87504-1148

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Pathfinder "AFT" State #13 located in Unit F of Section 21-T10S-R27E.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Operations Engineering Supervisor

JB/th

### CERTIFIED RETURN RECEIPT

Marsh Operating Company P. O. Box 460 Dallas, Texas 75221

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Pathfinder "AFT" State #13 located in Unit F of Section 21-T10S-R27E.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Operations Engineering Supervisor

JB/th

### CERTIFIED RETURN RECEIPT

Stevens Oil Company United Bank Plaza 400 N. Pennsylvania, Suite 1250 Roswell, New Mexico 88201

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Pathfinder "AFT" State #13 located in Unit F of Section 21-T10S-R27E.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

dim Brown

Operations Engineering Supervisor

JB/th

CERTIFIED RETURN RECEIPT

Hanlad Oil Corporation P. O. Box 1515 Roswell, New Mexico 88201

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Pathfinder "AFT" State #13 located in Unit F of Section 21-T10S-R27E.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Operations Engineering Supervisor

JB/th

March 15, 1991

Roswell Daily Record 2301 N. Main Roswell, New Mexico 88201

Gentlemen,

Yates Petroleum Corporation desires to place a public notice in your newspaper for one day. The notice is enclosed.

Please place this notice in your paper Sunday, March 10, 1991 and forward a copy of it along with your billing as soon as possible to:

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 Attn: Jim Brown

If you have any questions, please contact me at 748-1471, Ext. 167. Thank you for your cooperation in this matter.

Sincerely,

Jim Brown

Operations Engineering Supervisor

JB/th

### Attachment I

### Legal Notice

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Pathfinder AFT State #13" located 2310' FNL & 1850' FWL of Section 21, Township 10 South, Range 27 East of Chaves County, New Mexico, will be used for saltwater disposal. Disposal waters from the Fusselman and San Andres formations will be re-injected into the Fusselman formation at a depth of 6442-6729 feet with a maximum pressure of 1200 psi and a maximum rate of 3000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting Jim Brown at (505) 748-1471.

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY

TREASURER

S. P. YATES

April 25, 1991

New Mexico Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Attention: David Catanach

Re: Pathfinder "AFT" State #13 C-108 Application for Salt Water Disposal Section 21-10S-27E Chaves County, NM

Dear Mr. Catanach,

The attached data sheet contains the additional information you have requested.

The proposed injection interval in the Pathfinder #13 is 2577' to 2864' below Mean Sea Level (MSL). All other wells in the area of review are producing from intervals structurally higher than the proposed injection interval in the Pathfinder #13. Production tests from the first few wells in the field showed that the oil/water transition begins just below 2564' below MSL, which is the deepest perforation from a producing well (Pathfinder #3). To prevent coning of water, all subsequent wells were perforated above 2565' below MSL.

In conclusion, the proposed injection interval is structurally lower than all other producers in the area of review. If you have any other questions, please do not hesitate to call me.

Yours truly,

Jim Brown

Petroleum Engineer

WELL	PERFORATION DEPTH		PERFORATION ELEVATION MSL
Pathfinder AFT #13	6386-6415	3851	-2535 to -2564
Pathfinder AFT #6	6376-6383	3862	-2498
Pathfinder AFT #9	6295-6378	3834	-2461 to -2544
Pathfinder AFT #10	6376-6384	3830	-2546 to -2554
Pathfinder AFT #11	6387-6397	3835	-2552 to -2562
Pathfinder AFT #12	6401-6408	3843 (?)	-2558 to -2565
Pathfinder AFT #13	6442-6729	3865	-2577 to -2864

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES

PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY

DENNIS G. KINSEY TREASURER

### 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

May 2, 1991

The Sub

Mr. David Catanach New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

RE: Pathfinder "AFT" State #13 C-108 Application for Salt Water Disposal Section 21-10S-27E Chaves County, NM

Dear Mr. Catanach:

The structure map of the Diablo (Fusselman) field, which you requested, is attached.

If you have any other questions, please contact me.

Sincerely yours,

lames S. Brown.

James S. Brown

Operations Engineering Supervisor

JSB/cvg

# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE