KEZEASE 3.31.93

#### MERIDIAN OIL

CLOSERVALIEN DIVISION

March 15, 1993

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

RE: C108 Application to Inject

Hat Mesa State Well No. 10 F, 1980' FNL & 1420' FWL Sec. 32, T20S, R33E

Lea County, NM

#### Gentlemen:

Enclosed is form C108 application to inject including attachments. A list of offset operators is attached. They were notified by certified return receipt mail on March 15, 1993.

The newspaper article and affidavit of publication will be mailed to you as soon as we receive it from the publisher. This package is being sent to initiate the routing and approval process.

Should you require additional information, please contact me at 915-688-6906.

Sincerely,

Maria L. Perez

**Production Assistant** 

MLP:aem

XC: Well File

Production Engr.
Hobbs Field Office

Stella Alvarado Land Dept.

Richard Atchley - Production Servs.

Reservoir Engr.

Maria I Flan

Regulatory

1. Connie Malik

2. Donna Williams

3. Maria Perez

of the earlier submittal.

FORM C-108 Revised 7-1-81

POSE OFFICE BOX 2003.
STATE LAND DEFICE BOYCEING
BANTA FE, NEW MEXICO 87501

APPLIC	ATION FOR AUTHORIZATION TO INJECT HAT MESA STATE NO. 10
I.	Purpose: Secondary Recovery Pressure Maintenance XX Disposal Disposal Storage Application qualifies for administrative approval? yes no
II.	Operator: MERIDIAN OIL INC.
	Address: P. O. BOX 51810, MIDLAND, TEXAS 79710
	Contact party: MARIA L. PEREZ, PRODUCTION ASST. Phone: (915) 688-6906
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.
ΙV.	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:
	<ol> <li>Proposed overage 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 discosal 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>
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.
KIII.	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: RICHARD S. SOPER Title ENGINEER
	Signature: Michael A Agen Date: Mar 10, 1993

PREVIOUSLY SUBMITTED, SEE ATTACHED LETTER.

#### 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:
  - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- 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 poor 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 H/S 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.

March 10, 1993

Oil Conservation Division
P. O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501-2088

RE: Application for Authorization to Inject New Mexico "FH" State Com #1 SE NW Section 32, T20S, R33E Lea County, New Mexico

#### Gentlemen:

Meridian Oil Incorporated (MOI) is applying for authorization to re-enter and complete the above referenced well for the purpose of water disposal. Attached is an injection well data sheet showing the current and proposed mechanical configuration of this well. A map is also attached showing the one-half mile area of review around the well. The required information from "Form C-108" follows.

The proposed injection well will dispose of water produced from Meridian Oil leases from the Delaware sands in the Hat Mesa field. Our estimated initial injection rate will be 500 BPD. The estimated maximum rate is 1000 BPD . We anticipate initial injection pressure to be  $\pm 500$  psi, and request an operating maximum pressure of 1200 psi. The closed injection facilities will be equipped with high and low level head switches and will not operate continuously. No deeper aquifers containing usable quality water are known in this area.

#### III. Well Data

- A. 1 through 4. See two attached well data sheets; the first is the existing, plugging data; the second is the proposed recompletion data
  - The plugged well:
     New Mexico "FH" State Com No. 1
     1980' FNL & 1420' FWL
     Section 32, T20S, R33E
     Lea County, New Mexico

The proposed re-entry/injection well: Hat Mesa State No. 10 (Rename) 1980' FNL & 1420' FWL Section 32, T20S, R33E Lea County, New Mexico

2) Surface: 13 3/8", 54.5# @ 522' in 17 1/2" hole cement with 450 sx. TOC = Surface

Intermediate: 9 5/8", 40# @ 4914' in 12 1/4" hole cement with 2150 sx, DV tool @3139. TOC = Surface

Production: 5 1/2", 17 & 20# @ 13, 358' in 8 3/4" hole cement with 1570 sx.  $TOC = \pm 7500'$  (calculated estimate)

5 1/2" cut off @  $\pm 6560$ ' when well was plugged (12/89)

Injection: (Proposed) 5 1/2", 17# @ 6500' in 8 3/4" hole cement with 1500 sx.  $TOC = \pm 2900'$  (calculated estimate)

- 3) Injection Tubing: 2 7/8", 6.5#, internally plastic coated set @ ±5300'
- 4) Packer: Baker Lock-set, retrievable, internally and externally plastic coated set at ±5300'
- B. 1) Injection Formation: Delaware Cherry Canyon Sandstones
  - 2) Injection Interval: <u>Perforated</u> from: 5310' 5340', 5363' 5372', 5392' 5412', 5434' 5472', 5536' 5574'
  - 3) The well was originally drilled for production of oil and gas
  - 4) There will be no other open intervals in this injection well
  - 5) The next possible higher oil or gas zone is the Yates sandstone located at approximately 3300'. The next possible lower oil or gas zone is a Delaware sandstone, if present, located at approximately 6450'.
- IV. This is <u>not</u> an expansion of an existing Meridian Oil project
- V. Area of Review: See attached plat, one-half mile radius identified
- VI. Tabulation of data: Wells within area of review

#### SE NW Section 32, T20S, R33E (Proposed re-entry/injection well)

Exxon Corporation, New Mexico "FH" State Com No. 1 - Spud 5/24/89, completed 12/30/89 as D&A. TD 13,900'. 13 3/8" @ 450' with 450 sx. 9 5/8" @ 4910' with 2150 sx. 5 1/2" @ 13,358' with 1570 sx. P&A 12/30/89. CIBP @ 13,170', cap with 15 sx. spot 25 sx at the following 12,375' - 12,175', 11,360' - 11,160', 8390' - 8190'. Cut and pull 5 1/2" casing from 6560'. Spot 55 sx from 6600' - 6479'. Spot 70 sx from 5000' - 4350'. Spot 70 sx 3600'. Pump 1100 sx salt cement from 3200' to surface.

#### NE SW Section 32, T20S, R33E

Meridian Oil Inc., Hat Mesa State No. 1 - Spud 11/27/92, completed 1/15/93 as producing oil well. TD 8346'. 13.3/8" @ 400' with 425 sx. 8 5/8" @ 3300' with 1650 sx. 5 1/2" @ 8346' with 1300 sx (650 sx thru shoe + 650 sx thru DV @ 6000'). Completed in Delaware "Brushy Canyon" sands from 6824' - 8080'. Producing.

#### NW SE Section 32, T20S, R33E

Meridian Oil Inc., Hat Mesa State No. 2 - Spud 12/20/92, completed 1/30/93 as producing oil well. TD 8348'. 13 3/8" @ 400' with 415 sx. 8 5/8" @ 3280' with 1550 sx. 5 1/2" @ 8346' with 1325 sx (675 sx thru shoe + 650 sx thru DV @ 6000'). Completed in Delaware "Brushy Canyon" sands from 6693' - 8091'. Producing.

#### SE NW Section 32, T20S, R33E

Meridian Oil Inc., Hat Mesa State No. 5 - Spud 3/6/93, not yet completed. This well's casing and completion design is anticipated to be nearly equivalent to the Hat Mesa State Nos. 1 & 2, listed above.

#### NW SE Section 32, T20S, R33E

Strata Production, Ganso State No. 2 - Spud 3/29/91, completed 5/7/91 as producing oil well. TD 8388'. 13 3/8" @ 342' with 315 sx. 8 5/8" @ 3130' with 1200 sx. 5 1/2" @ 8388' with 1165 sx (315 sx thru shoe + 850 sx thru DV @ 6000'). Completed in Delaware "Brushy Canyon" sands from 7151' - 8121'. Producing.

#### SE SW Section 32, T20S, R33E

Strata Production, Cleary State No. 1 - Spud 10/3/73, completed 11/30/73. TD 13,860'. 13 3/8" @ 1135' with 900 sx. 9 5/8" @ 7000' with 3100 sx, (1300 sx thru shoe + 1800 sx thru DV tool @ 3299'). 5 1/2" @ 13,860' with 900 sx.

P&A 11/28/78, 5 1/2" casing shut off @ 9680'. Spot 35 sx @ 9738', 55 sx @ 8307', 55 sx @ 7053', 55 sx @ 3486', 55 sx @ 2242', 55 sx @ 1527'. 9 5/8" cut off @ 1155'. Spot 80 sx @ 1250', 10 sx @ surface.



Re-entry completed 10/26/90. Drilled out to 6983'. Cement retainer in 9 5/8" @ 5835', cap with 25' cement. Completed in Delaware "Cherry Canyon" sands from 5413' - 5682'. Injection well.

#### VII. Proposed Operation:

- 1. Estimated average initial injection rate is 500 BWPD. Estimated maximum daily rate is 1400 BPD.
- 2. This will be a closed system.
- 3. Estimated average injection pressure is 500 psi. Maximum estimated operating pressure is 1200 psi.
- 4., 5. Both the producing formation (Brushy Canyon) and receiving formation (Cherry Canyon) are within the Delaware Mountain group. Two water samples were analyzed with the results attached. The "Dagger Lake #1" is a Lea County (Bell Canyon) Delaware well and the "Hat Mesa State #2" is a Lea County (Brushy Canyon) Delaware well. Based on similarities between these two analysis, it is assumed that the waters of the Delaware are compatible. Additionally, prior to injecting into the proposed SWD well, a water sample will be obtained and extensive compatibility testing will be conducted.

#### VIII \* Geological Data

Submitted by Strata Production Company with the application to inject in Cleary State No. 1 submitted August, 1990.

#### IX. Proposed Stimulation

The proposed stimulation program is a 7000 gallon treatment of 7 1/2% NEFe HCl acid.

#### X. Log Data

Log section is attached with proposed interval indicated.

#### XI. Fresh Water Analysis

There are no fresh water aquifers being produced within one mile of the proposed zone. Therefore, no fresh water analysis is available at this time.

#### XII. Hydrologic Communication

There is no known evidence of faulting or other hydrologic communication between potential fresh water aquifers and the desired injection zone.

#### XIII. Proof of Notice

Proof of Notice is attached.

#### XIV. Certification

Certification is on Form C-108.

If you need any additional information or if you have any questions please contact me at 915/688-6960.

Sincerely,

Richard Scott Soper

Engineer

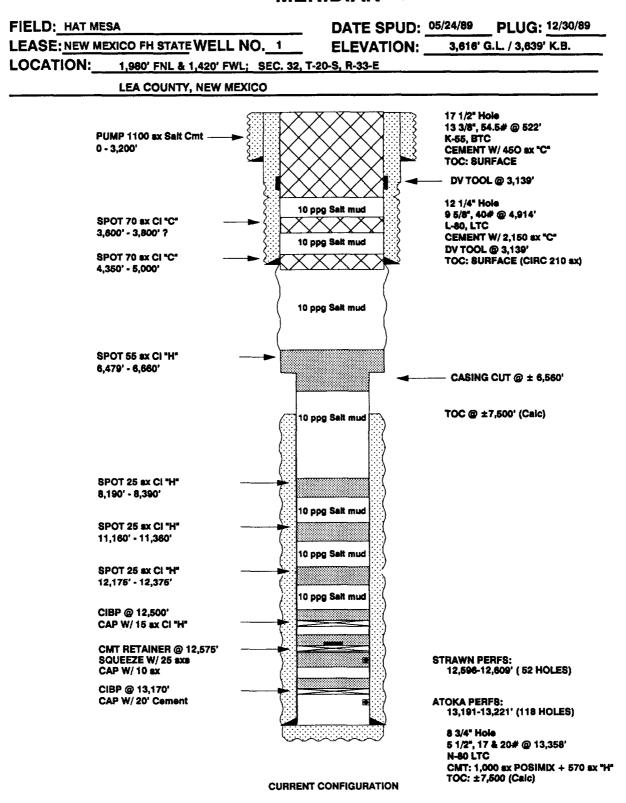
RSS/cjh Enclosures

Meridian Oil In	IC.		Hat Mesa S	State	
OPERATOR			LEASE		
10	F, 1980' FNL & 1420' FWL	32		T20S	R33E
WELL NO.	FOOTAGE LOCATION	SECTIO	ON	TOWNSHIP	RANGE
Lea County, N	<u>M</u>				
	Schematic			Tubular Data	
		Surfac	ce Casing		
		Size	13 3/8"	Cemented w	ith 450 sx.
		TOC	surface	feet determi	ined by circulation
		Hole s	size 171/2	W	
	ÆD		-		
	'AC	Interm	nediate Cas	ing	
	ATT	Size	9 5/8"	Cemented w	ith 2150 sx.
	SCHEMATICS ATTACHED	TOC	surface	feet determi	ined by circulation
	ATI	Hole s	size 121/4	M	
	Ė.		<del></del>		
	SC	Long S	String		
	ED	Size	51/2"	Cemented w	ith 1500 sx.
	PROPOSED	TOC	2900±	feet determi	ined by calculation
	2R0	Hole s	size 83/4"	<del></del>	
	AND I	Total I	Depth 6	400±	
	CURRENT	Injecti	on Interval		
	URF				
		5310		feet to 5574	feet
	SEE	<u> </u>	(perforat	ed or open-hole, inc	dicate which)

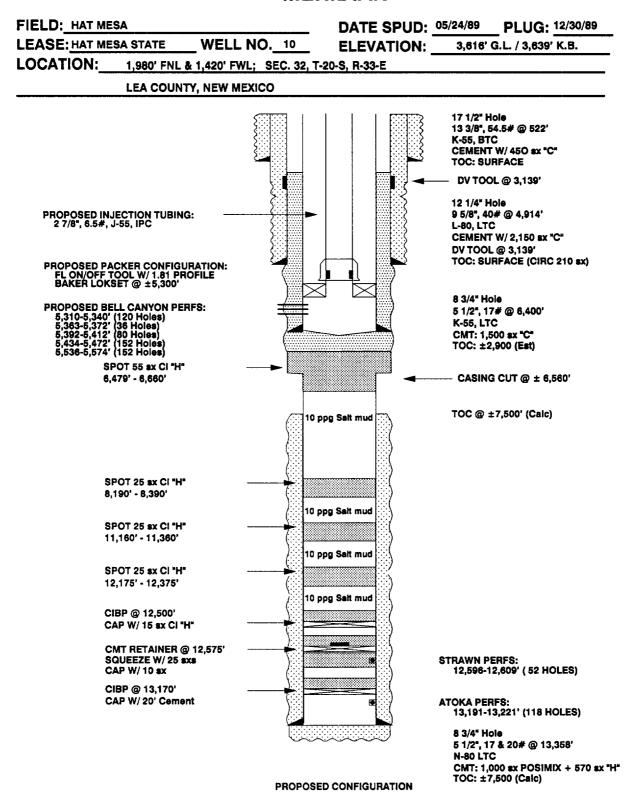
### INJECTION WELL DATA SHEET

SIDE 2

Tubi	ing size 2 7/8"	lined with	plastic coated	set in a
Bake	er Lokset	packer at	(material) 5300±	feet
	(brand and model) (or describe any other casing-tubing	seal).		-
OTH	HER DATA Non-pro	ductive of hydro	carbons	
1.	Name of the injection formationDe	elaware Cherry Ca	nyon Sandstones	
2.	Name of Field or Pool (if applicable)	for I.D. purpo	ses - Hat Mesa Delaware	
3.	Is this a new well drilled for injection?	YE	s <u>x</u> NO	
	If no, for what purpose was the well o New Mexico "FH" State Com. No. 1.	riginally drilled?	re-entry of a P&A well former	y Exxon's,
4.	Has the well ever been perforated in plugging detail (sacks of cement or b	•	•	vals and give
	See wellbore sketches of current and	proposed configu	uration of well.	
5.	Give the depth to and name of any o	verlying and/or ga	as zones (pools) in this area.	
	Next possible higher oil or gas zone i	s the Yates sands	tone located approximately @3	3300'.
	The next possible lower oil and gas z	one is a Delaware	e sandstone, if present, located	at
	approximately 6450'.			



TD: 13,900'
PBTD: SURFACE (PLUGGED)



TD: 13,900'
PBTD: ±6,400' (RE-ENTRY)

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040 709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

#### **RESULT OF WATER ANALYSES**

		LABORATORY	NO	99293	
TO: Mr. Joe Small	SAMPLE RECEIVED 9-16-		.92		
P. O. Box 51810, Midland, TX 7	RESULTS REPO	ORTED	9-18-	92	
COMPANY Meridian Gil Company		5.405	Dan		
COMPANY Meridian Oil Company FIELD OF POOL	\ T/4 1 d a a b			Lake FI	
SECTION BLOCK SURVEY				NM	
SOURCE OF SAMPLE AND DATE TAKEN:	COUNTY	ьеа	_ STATE	NM	
		**			
NO.1 Recovered water - taken from	om Dagger Lak	<u>e 71. 9-9</u> .	_49		
NO. 2			Boll (	<sup>n</sup> anszon	, Delaware
NO. 3		·			, Delaware T22S - R33E
NO. 4					
REMARKS:	Delaware	L.	пеа С	Juncy,	New Mexico
	WICAL AND PHYSIC				
ONE	NO. 1	NO. 2		NO. 3	NO. 4
Specific Gravity at 60° F.	1.1462				
pH When Sampled	1.1402			<del></del>	
pH When Received	6.26			<del></del>	
Bicarbonate as HCO,	146			·	
Supersaturation as CaCO,	140	<del></del>		·	
Undersaturation as CaCO <sub>3</sub>					
Total Hardness as CaCO,	50,500				
Calcium as Ca	18,000				
Magnesium as Mg	1.336				
Sodium and/or Potassium	68.483				
Sulfate as SO,	947				
Chloride as Cl	140,618			<del></del>	
Iron as Fe	90.0				
Barium as Ba					
Turbidity, Electric					
Color as Pt					
Total Solids, Calculated	229,531				
Temperature *F.					
Carbon Dioxide, Calculated					
Dissolved Oxygen,					
Hydrogen Sulfide	0.0				
Resistivity, ohms/m at 77* F.	0.053				
Suspended Oil					
Filtrable Solids as mg/l					
Volume Filtered, mt					
Total Dissolved Solids @ 180°C.	184,361				
				<del> </del>	
		<u>l</u>			
	Results Reported As Mills	igrams Per Liter			
Additional Determinations And Remarks We see a sti					
ing recovered from this well as					
	omparison wit				
area of this well, the above wat	er is indicat	ed to be p	redominan	tly Dela	ware.
		<del></del>			
l					

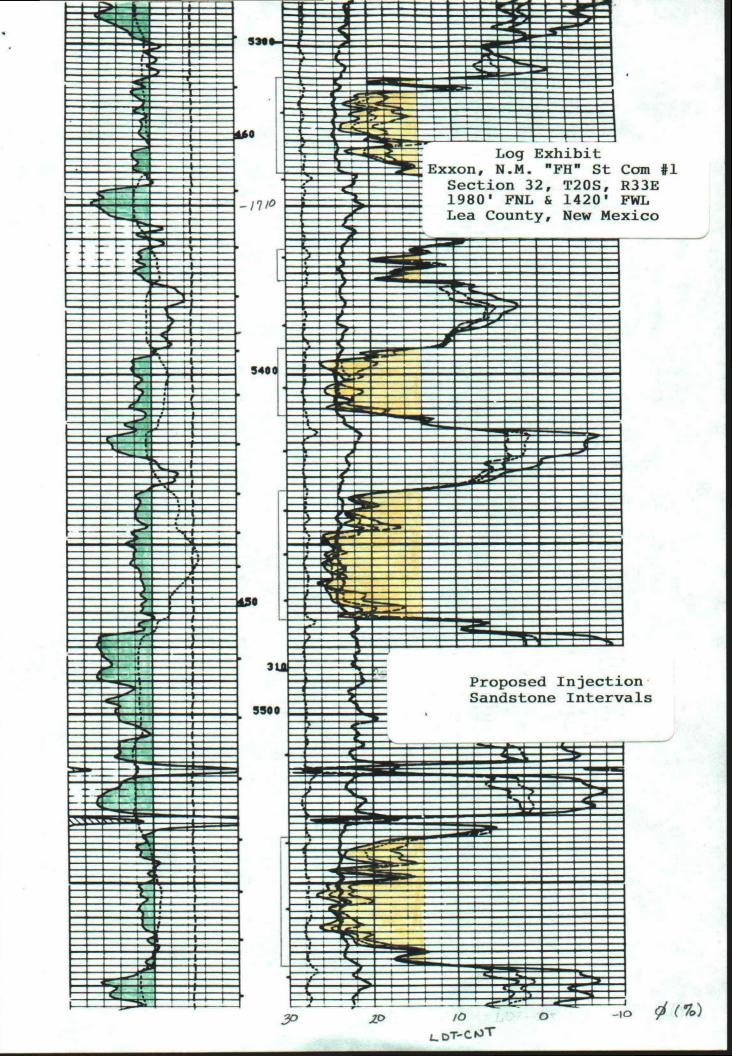
Form No. 3

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

#### RESULT OF WATER ANALYSES

		LABORATOR	Y NO	29	3138
TO: <u>Mr. R. S. Soper</u> <u>P. O. Box 31310, Midland, TX 79</u>	_ SAMPLE RECEIVED		2 10 00		
P. 0. Box 31310, Midland, TX 79	710	RESULTS REPORTED 2-22-93			
COMPANY <u>meridian Oil Company</u>			at Mes	3 State #2	
FIELD OR POOL		laware)			
SECTION BLOCK SURVEY	COUNTY	Lea	STAT	E	
SOURCE OF SAMPLE AND DATE TAKEN:					
NO.1 Recovered water - taken fro	m Hat Mesa 3	State #2.	Br	uchy Cany	on, Delaware
NO. 2		-	Sec	ction 32	- T20S - R331
NO. 3					New Mexico
NO. 4			110	a councy,	MCM WEXTCO
REMARKS:	Delawar	re			
CHEM	ICAL AND PHYSIC NO. 1			NO 0	
Canada Canada as 800 F		NO.	2	NO. 3	NO. 4
Specific Gravity at 60° F. pH When Sampled	1.1560				
pH When Received	6.24				
Bicarbonate as HCO,	229				+
Supersaluration as CaCO,	129	<del></del>			<del> </del>
Undersaturation as CaCO,					
Total Hardness as CaCO,	73,750				
Calcium as Ca	24,400	<del></del>			<del>                         </del>
Magnesium as Mg	3.098			·	<del></del>
Sodium and/or Potassium	64.072			<del></del>	
Sulfate as SO.	538				
Chloride as Ci	150.560				
Iron as Fe	72.4				
Barium as Ba			7 7	OID	
Turbidity, Electric			1 1	GIB	
Color as Pt			-	_GID	
Total Solids, Calculated	242.897				
Temperature 'F				···	
Carbon Dioxide, Calculated					
Dissolved Oxygen.					
Hydrogen Sulfide	0.0				
Resistivity, ohms/m at 77° F.	0.050	<u> </u>			
Suspended Oil	<del></del>				
Filtrable Solids as mg/l	<del> </del>				
Volume Filtered, ml					
Total Dissolved Solids @ 180°C.	241,690				
					<del>                                     </del>
	Results Reported As Milli	igrams Per Liter			
Additional Determinations And Remarks In comparing	<del></del>		<u> </u>		the ores
we find this water correlates we					
	zii wii wila	C WE WOILL	Exher	IL ITOM DELL	ig essentia y
all natural Delaware.	<del> </del>			·· <u>-</u>	
				·	



	a	12 - Yates Pet, etal	(J.A.McAdoms.IF) 0149957 7 Liono,inc.	Continental stell 8	Grover-McKinney pg	Grace Pet. Grace Grace Pet KGS
	Cade & Harreli	8 · 1 · 97 V · 4056 II6 75	Brooks Ope (Texaco)	76 4403	Grover-McKinney  Grover	13280 2 1 82 1523 23 40405
	14 1927 U S.	U.S. State 123-56	Boy 6 42 - 1715,560	0.5. (30022)	ARC U.S.	West Drie KGS 5145 S/R 11.
	Yates Pet. "63016 "AIA"	Rich & Bass C.W. Trainer E-5231 17 - 1 - 93 HBP	Bass Env. E-5231 Mornigomery Grace Pet.2:183	Mitchell   Yates Pet.   Cree   Petal	Art. St. 1005 2 Hendon	Fina OSC Grace Per Color SR Tex Poc. ITex Poc. IAmer plate Open Color SR Tex Poc. IAme
	yates Pet. Jests Feed. Jests F	V·2770 177 <u>9</u> €	49 52 4	WK.Byrom.	Gold Michaelt Laguna Gartuna Laguna (Gartuna (Gar	G. Knox Fee 15 1: 103418 D/A1-15-64 Tr.5
	9 0 O	13	Bass St. 18 Phillips Mins.Inc. Grace Pet. Bass St. HBP	Santa Fe Ener. 7 (Streat	3/26/3 (Conece 5:17) Sincial (Green) (Conece 5:17) Legund Gatung 2 (Readth	15 WM.Black Tr.G. (op. agent) A noo
14.0	"Belco-Fed."	Flag-Redfern) Idanson-St. 101816776 -1-31-76  State	Bass-St.	Mitchell Ener. Cities Service Santa Fe Ener. 1/2 10 - 1 H3 V271 Store B-1482	Laguna Gatuna 2 Readt 22 To Read Structure 2 Structure H. B. P. C. B. Read Structure TD9295	Joj I Union
	Barbara Fasken	C.W.Trainer Abercromoie	Smyder Rchs (S) (S)	614	B-1482 State	U.S. HE. Yates Ca. Mendar Wagger
	39955	9 1 99 Min., etal 77055 D.Fasken 13000 10-11-82	9 62 16358 HB.P. 68146 \$1 E-5231	Southwest'n Resources 177074 Mitchell (8-rber 58 10 1-82 16640 Mitchell (8-8989) Mitchell (8-8989) Mitchell (8-8989)	Mitchell Phillips Ener. Grice Pet. 67499 Hår 13280	2 · 1 · 85   11 · 1 · 95   HBP   40.405   63764   29704
(v,	23	24	Store   Store	67499	υ.s. 21	McCann Fed. U.S Meridian, 4
	HALFWAY	Belco Pet. = 10-1 82	Cost of Texaco o	Grace Pet   Southwest'n, Resources   10-1-92   16640	Grace 2 1 82 Pet. 40405	Phillips E.H.E.Yates Co. Grace Pet. 153164 A F. 152164 HS7 Shall Paris Shall P
5)	"Baetz" U.S.	0.5.	05023 Constal ripe Cb. Goss Fed. TD3298	W.B.Brown) 12:1:93 154307	Mifchell S.M.	Mrtchell   T01470   F0167
	Strata Frod. (Felmont) Fiol (4 3 Mil.)	Felmont	Richardson Oil E. P. R. Boss)  Guinoco Goses  HBP PR Boss  HBP PR Boss  HBP PR Boss  10 10 10 10 10 10 10 10 10 10 10 10 10 1	Belco Pet.   Southwest'n.   10   1   82     Resources   10   1   82	Mitchell Ener. 0/R Mitchell Ener. 9-1-95 62228 69989	Mitchell Ener.
II Ener.	15906	15 9 0 T Bot Hole 4 Mil (WO) 7016600 PRIS 739	McGeorge (Belco) 03023	Belco1972 C.E.G. 16640	Marshall O Winston T 1 92 T 1	Maralo, ¼ 170 № (1Y) - DI (780 € (3.8MI)
96 A	(CM.Seiby, MI.) 26 Respurces Protection(S)	25 Texaca, cial	U.S. Fed. Marrow Marrow Marrow H.B.P. 8-6 Mil. + FI67	29	Tomahowk Fed." Mitchell 28	(PMA (1 Y)1-D1 Armood 27 (Artoka Ohac) Shell
-	"S.H Snoddy-Fed."	Bottom Grace Pe 1 Texaco Petrole Pelmon Press (P/B)	as to a ctoi Hallwood Pet.		Strata Prod.   Pitch	Mitchey
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	u.s.	Sherri Hoffereras U.S.	U.S.	'N M Fed' U.S.	UIS *	"Hat Mesa" *
	Richardsen 0ils   Richardsen 0ils   7-1-71   7-1-71   02131	(Geodyne)	HBP	(Franks Pet) (Union) (P)(B) Hawkins OE,G,etal 5	(Mobil)	Phillips Phillips
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	Wolf	ML-Fed.	Tattes Pet Anito ALD Fed. Anito ALD Fed. Co	St Cig -	21 32 1	27022   61281 3-31-75   27022   Meridian 1/4   Meridian 1/4   Amini Oil   HBP 0702296   2211   2515 HBP U.S. Kelly Bell
d Cara		CI ZUMER A			U.S to 15.8	TSIS HBP U.S Kelly Bell

#### MERIDIAN OLL March 12, 1993

Hobbs News Sun 201 N. Thorp Hobbs, NM 88241

RE: Publication of Legal Notice

Hat Mesa State No. 10 F, Sec. 32, T20S, R33E Lea County, NM

Ladies & Gentlemen:

Please publish for one day only the following legal notice:

Meridian Oil Inc., P.O. Box 51810, Midland, Texas 79710

Contact Party: Maria Perez (915-688-6906) is making application with the Oil Conservation Division in Santa Fe, New Mexico for authority to dispose of salt water in the proposed Hat Mesa State No. 10 well in F, 1980' FNL & 1420' FWL, Sec. 32, T20S, R33E, Lea County, New Mexico. The proposed injection well will dispose of water produced from Meridian Oil leases from the Delaware sands in the Hat Mesa field into the Delaware Cherry Canyon formation 5310'-5574' which is non-productive of hydrocarbons. Estimated initial injection rate will be 500 BWPD. The estimated maximum injection rate is 1000 BWPD. Anticipated initial injection pressure to be ± 500 psi, and request an operating maximum pressure of 1200 psi. Any interested parties must file objections or request for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

Please mail a newspaper clipping, invoice and affidavit of publication to:

Maria Perez - Production Services Meridian Oil Inc. P.O. Box 51810 Midland, TX 79710

Sincerely,

Maria L. Perez Production Assistant

Maria I- Pers

915-688-6906

#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-89

	Office	
State L	2226 — ( 226 — 5	ocopie copies

OIL CONSERVATION DIVISION DISTRICT I P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells) 30-025-30534

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

CONDITIONS OF APPROVAL, IF ANY:

5. Indicate Type of Lease

STATE X FEE

DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410	6. State Oil & Gas Lease	No.			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work:	7. Lease Name or Unit A	greement Name			
DRILL RE-ENTER X DEEPEN PLUG BACK  b. Type of Well:  CIL GAS MULTIPLE WELL WELL OTHER SALT WATER DISPOSAL ZONE X ZONE	HAT MESA STAT	TE			
2. Name of Operator  MERIDIAN OIL INC.	8. Well No.	10			
3. Address of Operator P.O. Box 51810, Midland, TX 79710-1810	9. Pool name or Wildcat HAT MESA DELA	<b>WARE</b>			
4. Well Location Unit Letter F: 1980 Feet From The NORTH Line and 1420	Feet From The V	VEST Line			
Section 32 Township 20-S Range 33-E	NMPM LEA	County			
	Formation DELAWARE				
10. Proposed Depth 6500'	CHERRY CANYON	12. Rotary or C.T. ROTARY			
13. Elevations (Show whether DF, RT, GR, etc.)  14. Kind & Status Plug. Bond  15. Drilling Contractor  3619' GR  STATEWIDE  18. NA YET	16. Арргох.	Date Work will start ON APPROVAL			
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH	SACKS OF CEMENT	EST. TOP			
17-1/2" 13-3/8" 54.5# 522'	450 SXS	SURFACE			
12-1/4" 9-5/8" 40# 4914'	2150 SXS	SURFACE EST.TOC 2900'+/-			
8-3/4" 5-1/2" 17# 6500'	1500 SXS				

RE-ENTRY OF A PLUG AND ABANDON WELL FORMERLY OPERATED BY EXXON COMPANY U.S.A. AS THE NEW MEXICO "FH" STATE COM. NO. 1.

CHANGE NAME OF WELL TO THE HAT MESA STATE NO. 10 AND COMPLETE AS A SALT WATER DISPOSAL WELL IN THE DELAWARE CHERRY CANYON FORMTION WHICH IS NON-PRODUCTIVE OF HYDROCARBONS AND ASSIGN WELL TO THE HAT MESA DELAWARE FIELD FOR IDENTIFICATION PURPOSES ONLY.

DRILL OUT CMT PLUGS TO 6500', 8-3/4" HOLE. RUN 5-1/2", 17#, K-55, LTC CSG AND SET @ 6500'. CMT 5-1/2" CSG W/1500 SXS C CMT. EST TOC @ 2900'. PERFORATE 5310'-5340' 4 SPF 120 HOLES, 5363'-5372' 4 SPF 36 HOLES, 5392'-5412' 4 SPF 80 HOLES, 5434'-5472' 4SPF 152 HOLES, 5536'-5574' 4 SPF 152 HOLES. ACIDIZE DELAWARE CHERRY CANYON PERFS W/7000 GALLONS 7-1/2% NEFE HCL ACID. SET BAKER LOCSET PKR W/ON-OFF TOOL ON 2-7/8" IPC TBG @ 5300' +/-. PUT ON INJECTION. (FORM C-108 APPLICATION FOR AUTHORIZATION TO INJECT BEING SUBMITTED AT SAME TIME.)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.						
I hereby certify that the information above is true and complete to the best of my	y knowledge and belief. PRODUCTION ASST.	3-12-93				
TYPE OR PRINT NAME MARIA L. PEREZ	Ins	TELEPHONE NO. 91-688-690				
(This space for State Use)						
APPROVED BY	m.s	DATE				

Submit to Appropriate District Office State Lease - 4 copies
Fee Lease - 3 copies

#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

	,	All Distances mu	st be from the outer boundari	es of the section	
Operator	<del></del>		Lease		Well No.
MERIDIAN	OIL INC.		HAT MESA STA	TE	10
nit Letter	Section	Township	Range	County	
F	32	20 <b>-</b> S	33-E	NMPM	LEA
ctual Footage Loc	ation of Well:				
1980	feet from the		and 1420	feet from the WES	
3619'	1	cing Formation  ARE CHERRY CANYON		fication purposes AWARE	Dedicated Acreage: Acres
l. Outlie			ed pencil or hachure marks on th		Adde
2. If mo	re than one lease is d	ledicated to the well, outline en	h and identify the ownership the	ereof (both as to working interest ar	d royalty).
		•	to the well, have the interest of	all owners been consolidated by co	mmunitization,
	ation, force-pooling, Yes	No If answer is "ye	es" type of consolidation		
	r is "no" list the own n if neccessary.	ners and tract descriptions which	have actually been consolidated	L (Use reverse side of	
No allow	vable will be assigne	d to the well until all interests heliminating such interest, has be		nunitization, unitization, forced-poo	ling, or otherwise)
				COMPANY III C A OPERA	TOR CERTIFICATION
NEW MEYT	OF A PLUG	A ABANDONED WELL:	CONVERT TO A SALT	COMPANY U.S.A.OPERA	by certify that the information
			CANYON FORMATION	LIUTCU TC contained he	rein in true and complete to the
		YDROCARBONS	CANTON TOMPATION	best of my knu	owledge and belief.
NON-FROD	OCITACIOL U	IDROCARDONS		Signature	
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-	Į		1	belief.	
				Date Survey	ed
				Signature & Professional	
		E	1	Processonal	Sulveyor
				Certificate N	10
		<u> </u>		Ceruncate N	···
0 330 660	990 1320 165	50 1980 2310 2640	2000 1500 1000	500 0	

#### Hat Mesa State No. 10

F, Sec. 32, T20S, R33E, Lea County, NM

Offset Operators within a ½ mile radius:

BASS ENTERPRISES PRODUCTION CO. P.O. BOX 2760 MIDLAND, TX 79701

BELCO PETROLEUM (NM-16640A) P.O. BOX 2267 MIDLAND, TX 79702

EXXON COMPANY U.S.A. P.O. BOX 1600 MIDLAND, TX 79702

HALLWOOD PETROLEUM, INC. P.O. BOX 37811 DENVER, CO 80237

SOUTHWESTERN RESOURCES (NM-16640) P.O. BOX 1756 ROSWELL, NM 88210

STRATA PRODUCTION CO. 648 PETROLEUM BLDG. ROSWELL, NM 88201

TEXACO EXPLORATION AND PRODUCTION CO. P.O. BOX 730 HOBBS, NM 88240

#### SURFACE OWNER

State of New Mexico c/o Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87504

#### **NEWSPAPER**

Hobbs News Sun 201 N. Thorp Hobbs, NM 88241 (505) 393-2123

March 15, 1993

Bass Enterprises Production Co. P.O. Box 2760 Midland, TX 79701

RE: Offset Operator's Notification
Form C108 Application for
Authorization to Inject
Hat Mesa State Well No. 10
F, 1980' FNL & 1420' FWL
Sec. 32, T20S, R33E
Delaware Cherry Canyon Formation
Lea County, NM

#### P 045 808 099



# Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

	Sent to Bass Enterprises	Prd. Co.						
	P.O. Box 2760							
	P.O. State and ZIP Code Midland, TX 79701							
	Postage	\$						
	Certified Fee							
	Special Delivery Fee							
	Restricted Delivery Fee							
99	Return Receipt Showing to Whom & Date De Vered							
rs rorm <b>3000</b> , June 199	Return Receipt Showing to Whom, Date, and Addressee's Address							
ر, ا	TOTA., Postage & Fees	\$						
200	Postmark or Date							
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#### Gentlemen:

Enclosed is a copy of our application for authorization to inject. Plans are to re-enter the plugged and abandoned well formerly operated by Exxon Company U.S.A. as the New Mexico "FH" State Com. No. 1. We propose to convert it to a salt water disposal well in the Delaware Cherry Canyon Formation, 5310' - 5574'. It is non-productive of hydrocarbons.

Should you have any questions, please contact me at 915-688-6906.

Sincerely,

Maria L. Perez

**Production Assistant** 

Many J. King

MLP:aem

March 15, 1993

Belco Petroleum P.O. Box 2267 Midland, TX 79702

RE: Offset Operator's Notification
Form C108 Application for
Authorization to Inject
Hat Mesa State Well No. 10
F, 1980' FNL & 1420' FWL
Sec. 32, T20S, R33E
Delaware Cherry Canyon Formation
Lea County, NM

# Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)

	Belco Petroleum	
	P.O. Box 2267	
	Midiand; TX 7970	)2
	Postage	\$
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	Restricted Delivery Fee	
1991	Return Receipt Snowing to Whom & Date Delivered	
PS Form <b>3800</b> , June 1991	Return Receipt Showing to Whom, Date, and Addressee's Address	
O, J	TOTAL Postage & Fees	\$
380	Postmark or Date	
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PS F		

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Should you have any questions, please contact me at 915-688-6906.

Sincerely,

Maria L. Perez

**Production Assistant** 

MLP:aem

March 15, 1993

Exxon Company U.S.A. P.O. Box 1600 Midland, TX 79702

RE: Offset Operator's Notification Form C108 Application for **Authorization to Inject** Hat Mesa State Well No. 10 F, 1980' FNL & 1420' FWL Sec. 32, T20S, R33E

**Delaware Cherry Canyon Formation** 

Lea County, NM

Receipt for **Certified Mail** 

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

	Exxon Co. USA			
	Special Box 1600			
	PMidiand, TX 79702			
PS Form <b>3800,</b> June 1991	Postage	\$		
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Should you have any questions, please contact me at 915-688-6906.

Sincerely,

Maria L. Perez

**Production Assistant** 

Mary I Pars

MLP:aem

Receipt for Certified Mail

No Insurance Coverage Provided

#### MERIDIAN OIL

March 15, 1993

Hallwood Petroleum, Inc. P.O. Box 37811 Denver, TX 80237

RE: Offset Operator's Notification
Form C108 Application for
Authorization to Inject
Hat Mesa State Well No. 10
F, 1980' FNL & 1420' FWL
Sec. 32, T20S, R33E
Delaware Cherry Canyon Formation
Lea County, NM

#### Do not use for International Mail (See Reverse) Hallwood Petr<u>oleum, Inc.</u> P.O. Box 37811 P.O., State and ZiP Code Denver, CO 80237 \$ Certified Fee Specia Delivery Fee Restricted Delivery Fee Return Receipt Showing to Whom & Date Derivered Return Receipt Showing to Whom Date, and Addressee's Address TOTAL Postage & Fees 3800, Postmark or Date Form

#### Gentlemen:

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S

Should you have any questions, please contact me at 915-688-6906.

Sincerely,

Maria L. Perez

Production Assistant

MLP:aem

March 15, 1993

Southwestern Resources P.O. Box 1756 Roswell, NM 88210

RE: Offset Operator's Notification
Form C108 Application for
Authorization to Inject
Hat Mesa State Well No. 10
F, 1980' FNL & 1420' FWL
Sec. 32, T20S, R33E
Delaware Cherry Canyon Formation
Lea County, NM

#### P 045 808 104



# Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

- 1					
	Southwestern Re	sources			
	P.O. Box 1756				
	PO. State and ZIP Code Roswell, NM 88201				
	Postage	\$			
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Should you have any questions, please contact me at 915-688-6906.

Sincerely,

Maria L. Perez

**Production Assistant** 

MLP:aem

#### P 045 808 105

Receipt for Certified Mail

#### MERIDIAN OIL

March 15, 1993

Strata Production Co. 648 Petroleum Bldg. Roswell, NM 88201

RE: Offset Operator's Notification
Form C108 Application for
Authorization to Inject
Hat Mesa State Well No. 10
F, 1980' FNL & 1420' FWL
Sec. 32, T20S, R33E
Delaware Cherry Canyon Formation
Lea County, NM

Strata Produc	tion Co.	
648 Petroleum	Bldg.	
Roswell NM 88201		
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TOTAL Postage & Fees	\$	
Postmark or Date		

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Should you have any questions, please contact me at 915-688-6906.

Sincerely,

Maria L. Perez

**Production Assistant** 

MLP:aem

March 15, 1993

Texaco Exploration and Production Co. P.O. Box 730 Hobbs, NM 88240

RE: Offset Operator's Notification
Form C108 Application for
Authorization to Inject
Hat Mesa State Well No. 10
F, 1980' FNL & 1420' FWL
Sec. 32, T20S, R33E
Delaware Cherry Canyon Formation
Lea County, NM

P 045 808 106



# Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

	Sent to Texaco Explorat Smeand Production P.O. Box 730 Hobbs, NM 8824	Co.
	Postage	\$
	Certified Fee	
une 1991	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt Showing to Whom & Date Delivered	
	Refurn Receipt Showing to Whom, Date, and Addressee's Address	
٥, ا	TOTAL Postage & Fees	\$
PS Form <b>3800</b> , June 1991	Postmark or Data	

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Should you have any questions, please contact me at 915-688-6906.

Sincerely,

Mana 1. Perez

**Production Assistant** 

MLP:aem

#### STATE OF NEW MEXICO

## OF THE RESOURCES DEPARTMENT

\*93 MAH 19 AM 9 15 3-16-93

BRUCE KING GOVERNOR POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501				
RE: Proposed:  MC DHC NSL NSP SWD WFX PMX				
Gentlemen:				
I have examined the applica	ation for the:			
Meridian Oil-Anc. Operator	Hat mesa Lease & Well No.	State	#10-F S-T-R	32-20-33
and my recommendations are	as follows:			
Yours very truly,				
Jerry Sexton Supervisor, District 1				