

RELEASE 3-31-93

**MERIDIAN OIL**

OIL CONSERVATION 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**

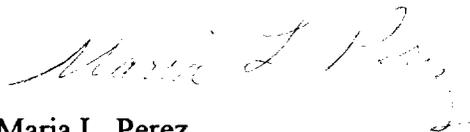
Gentlemen:

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  
Stella Alvarado  
Land Dept.  
Reservoir Engr.

Production Engr.  
Hobbs Field Office  
Richard Atchley - Production Servs.  
Regulatory

1. Connie Malik
2. Donna Williams
3. Maria Perez

APPLICATION FOR AUTHORIZATION TO INJECT

HAT MESA STATE NO. 10

- I. Purpose:  Secondary Recovery  Pressure Maintenance  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.
- IV. Is this an expansion of an existing project?  yes  no  
If yes, give the Division order number authorizing the project \_\_\_\_\_.
- V. 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.
- \* X. 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.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: RICHARD S. SOPER Title: ENGINEER

Signature: *Richard S. Soper* Date: Mar 10, 1975

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

*F.O.R. = 0 TOTAL @ PRA  
06*

## 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 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.

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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.

# MERIDIAN OIL

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

- 1) 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 = ±7500' (calculated estimate)

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

Injection: (Proposed) 5 1/2", 17# @ 6500' in 8 3/4" hole  
cement with 1500 sx. TOC = ±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: Perforated 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 not 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

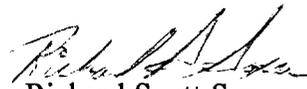
Proof of Notice is attached.

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

# INJECTION WELL DATA SHEET

SIDE 1

Meridian Oil Inc.	Hat Mesa State			
OPERATOR	LEASE			
10	F, 1980' FNL & 1420' FWL	32	T20S	R33E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Lea County, NM				

Schematic

Tubular Data

Surface Casing

Size 13 3/8" Cemented with 450 sx.  
 TOC surface feet determined by circulation  
 Hole size 17 1/2"

Intermediate Casing

Size 9 5/8" Cemented with 2150 sx.  
 TOC surface feet determined by circulation  
 Hole size 12 1/4"

Long String

Size 5 1/2" Cemented with 1500 sx.  
 TOC 2900± feet determined by calculation  
 Hole size 8 3/4"  
 Total Depth 6400±

Injection Interval

5310 feet to 5574 feet  
 (perforated or open-hole, indicate which)

SEE CURRENT AND PROPOSED SCHEMATICS ATTACHED

# INJECTION WELL DATA SHEET

SIDE 2

Tubing size 2 7/8" lined with plastic coated set in a  
(material)  
Baker Lokset packer at 5300± feet  
(brand and model)  
(or describe any other casing-tubing seal).

## OTHER DATA

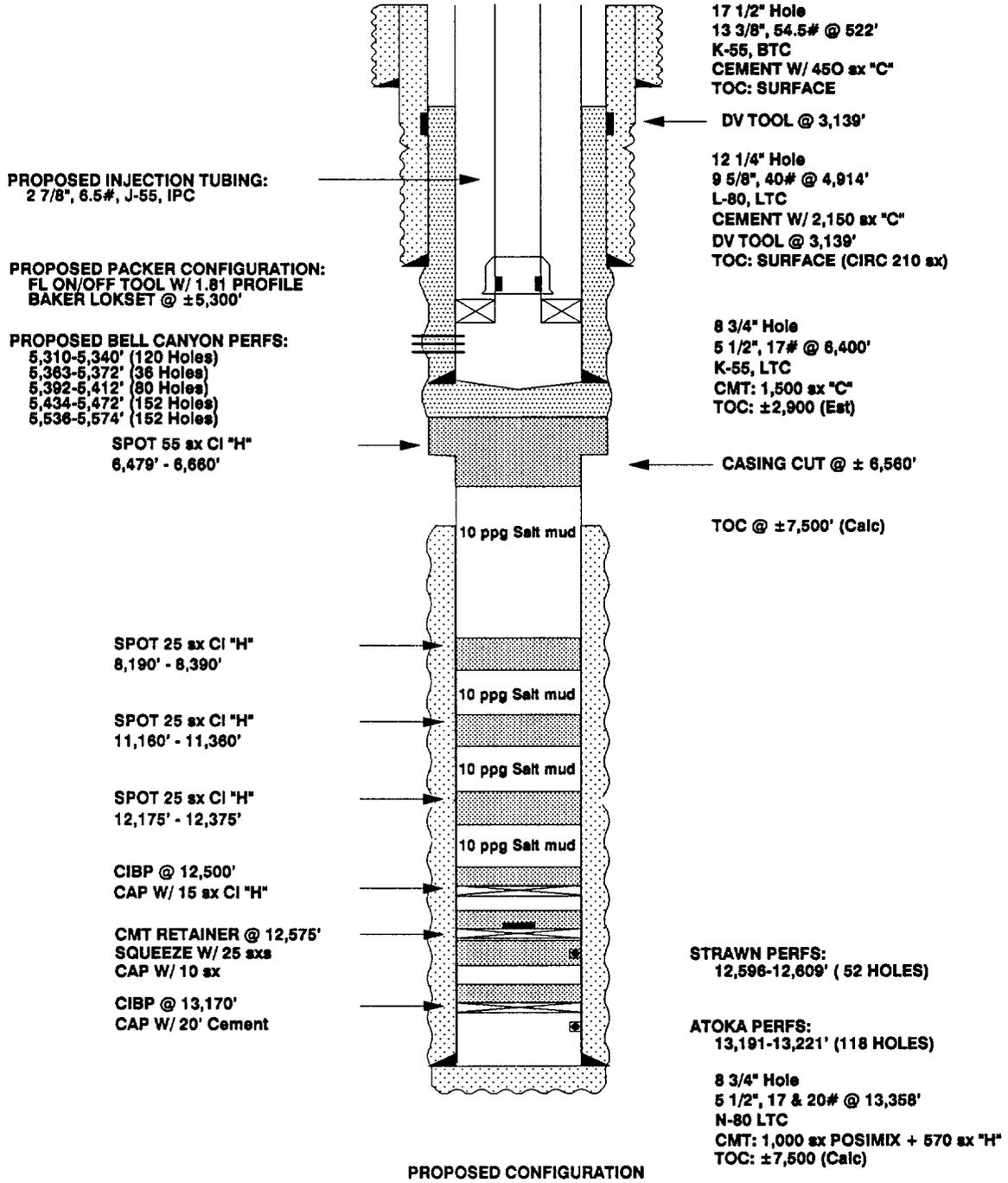
### Non-productive of hydrocarbons

1. Name of the injection formation Delaware Cherry Canyon Sandstones
2. Name of Field or Pool (if applicable) for I.D. purposes - Hat Mesa Delaware
3. Is this a new well drilled for injection?            YES   X   NO  
If no, for what purpose was the well originally drilled? re-entry of a P&A well formerly Exxon's,  
New Mexico "FH" State Com. No. 1.
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)  
See wellbore sketches of current and proposed configuration of well.
5. Give the depth to and name of any overlying and/or gas zones (pools) in this area.  
Next possible higher oil or gas zone is the Yates sandstone located approximately @3300'.  
The next possible lower oil and gas zone is a Delaware sandstone, if present, located at  
approximately 6450'.



# MERIDIAN OL

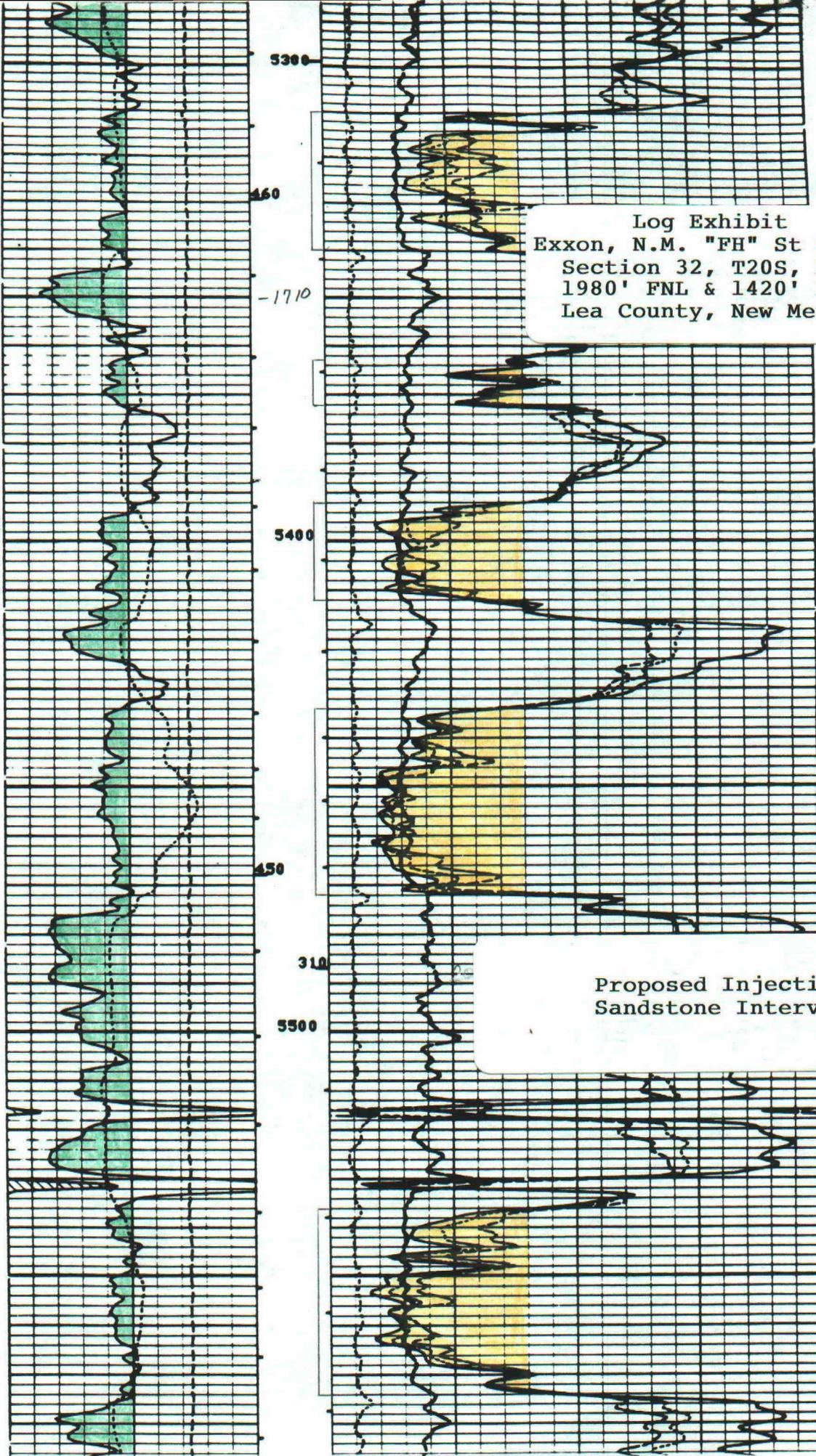
**FIELD:** HAT MESA  
**LEASE:** HAT MESA STATE **WELL NO.:** 10  
**LOCATION:** 1,980' FNL & 1,420' FWL; SEC. 32, T-20-S, R-33-E  
**DATE SPUD:** 05/24/89 **PLUG:** 12/30/89  
**ELEVATION:** 3,616' G.L. / 3,639' K.B.  
**LEA COUNTY, NEW MEXICO**



TD: 13,900'  
 PBD: ±6,400' (RE-ENTRY)



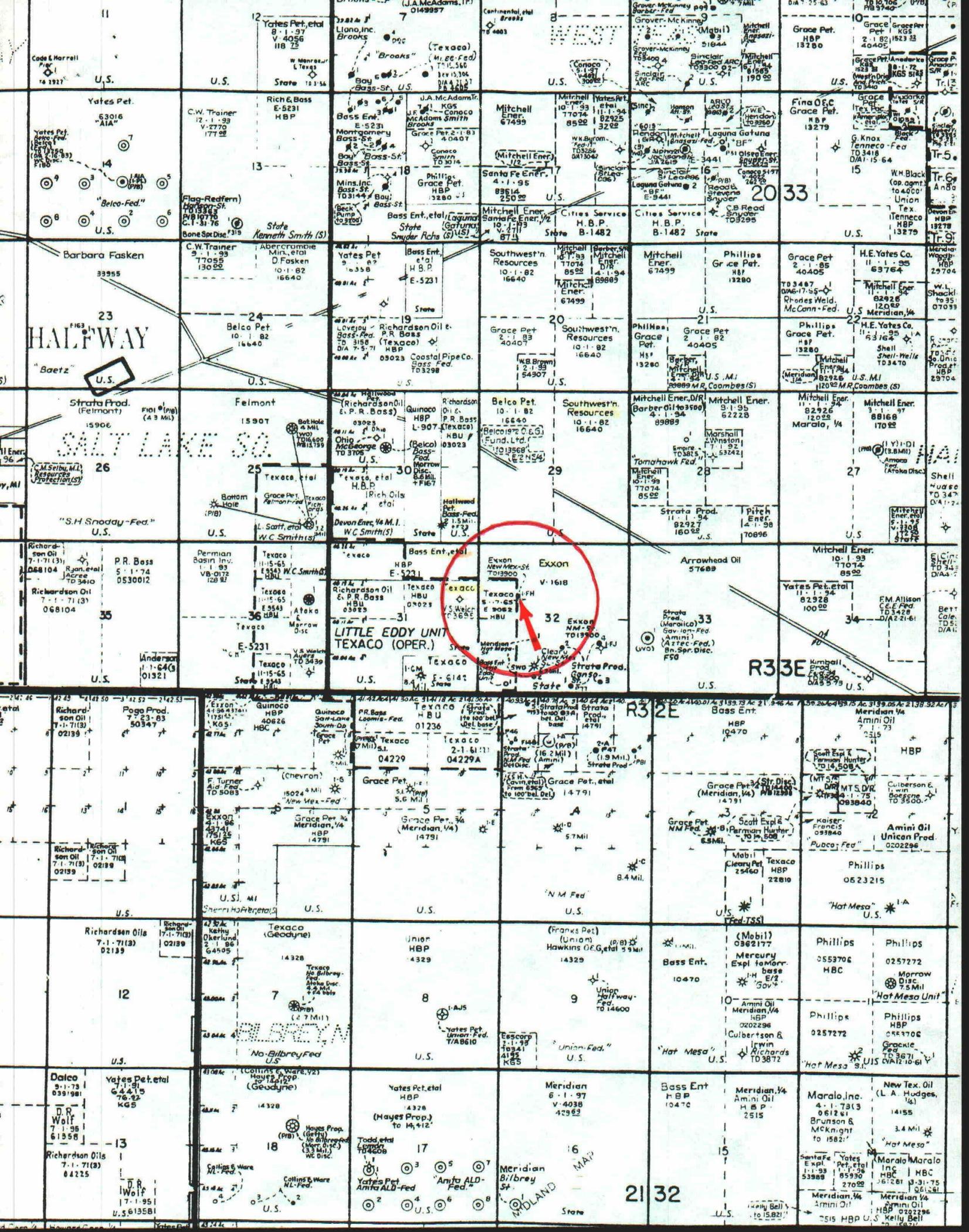




Log Exhibit  
 Exxon, N.M. "FH" St Com #1  
 Section 32, T20S, R33E  
 1980' FNL & 1420' FWL  
 Lea County, New Mexico

Proposed Injection  
 Sandstone Intervals

30 20 10 LDT-CNT 0 -10 φ (%)



HALFWAY

SALT LAKE SO.

LITTLE EDDY UNIT  
TEXACO (OPER.)

R33E

R32E

"S.H. Snoddy-Fed."

"Baetz"

"Hat Mesa"

U.S.

**MERIDIAN OIL**  
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:

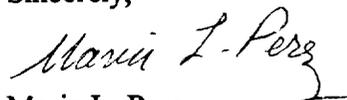
Please publish for one day only the following legal notice:

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  $\pm$  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  
915-688-6906

XC: Well File

Submit to Appropriate District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-101  
Revised 1-1-89

**OIL CONSERVATION DIVISION**

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

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

5. Indicate Type of Lease  
STATE  FEE

6. State Oil & Gas Lease No.

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work:  
DRILL  RE-ENTER  DEEPEN  PLUG BACK   
b. Type of Well:  
OIL WELL  GAS WELL  OTHER SALT WATER DISPOSAL  SINGLE ZONE  MULTIPLE ZONE

7. Lease Name or Unit Agreement Name  
HAT MESA STATE

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 DELAWARE

4. Well Location  
Unit Letter F : 1980 Feet From The NORTH Line and 1420 Feet From The WEST Line  
Section 32 Township 20-S Range 33-E NMPM LEA County

10. Proposed Depth  
6500'  
11. Formation DELAWARE  
CHERRY CANYON  
12. Rotary or C.T.  
ROTARY

13. Elevations (Show whether DF, RT, GR, etc.)  
3619' GR  
14. Kind & Status Plug. Bond  
STATEWIDE  
15. Drilling Contractor  
NA YET  
16. Approx. Date Work will start  
UPON 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
8-3/4"	5-1/2"	17#	6500'	1500 SXS	EST.TOC 2900'+/-

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 PLUG 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 knowledge and belief.

SIGNATURE Maria L Perez TITLE PRODUCTION ASST. DATE 3-12-93  
TYPE OR PRINT NAME MARIA L. PEREZ TELEPHONE NO. 91-688-6906

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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

**OIL CONSERVATION DIVISION**

DISTRICT I  
 P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

Operator MERIDIAN OIL INC.		Lease HAT MESA STATE		Well No. 10
Unit Letter F	Section 32	Township 20-S	Range 33-E	County LEA
Actual Footage Location of Well: 1980 feet from the NORTH line and 1420 feet from the WEST line				
Ground level Elev. 3619'	Producing Formation DELAWARE CHERRY CANYON	Pool For identification purposes HAT MESA DELAWARE		Dedicated Acreage: -- Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
 Yes     No    If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

RE-ENTRY OF A PLUG & ABANDONED WELL: FORMERLY EXXON COMPANY U.S.A. OPERATOR CERTIFICATION  
 NEW MEXICO "FH" STATE COM. NO. 1. CONVERT TO A SALT WATER  
 DISPOSAL WELL IN THE DELAWARE CHERRY CANYON FORMATION WHICH IS  
 NON-PRODUCTIVE OF HYDROCARBONS.

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
*Maria L. Perez*

Printed Name  
 MARIA L. PEREZ

Position  
 PRODUCTION ASST.

Company  
 MERIDIAN OIL INC.

Date  
 3-12-93

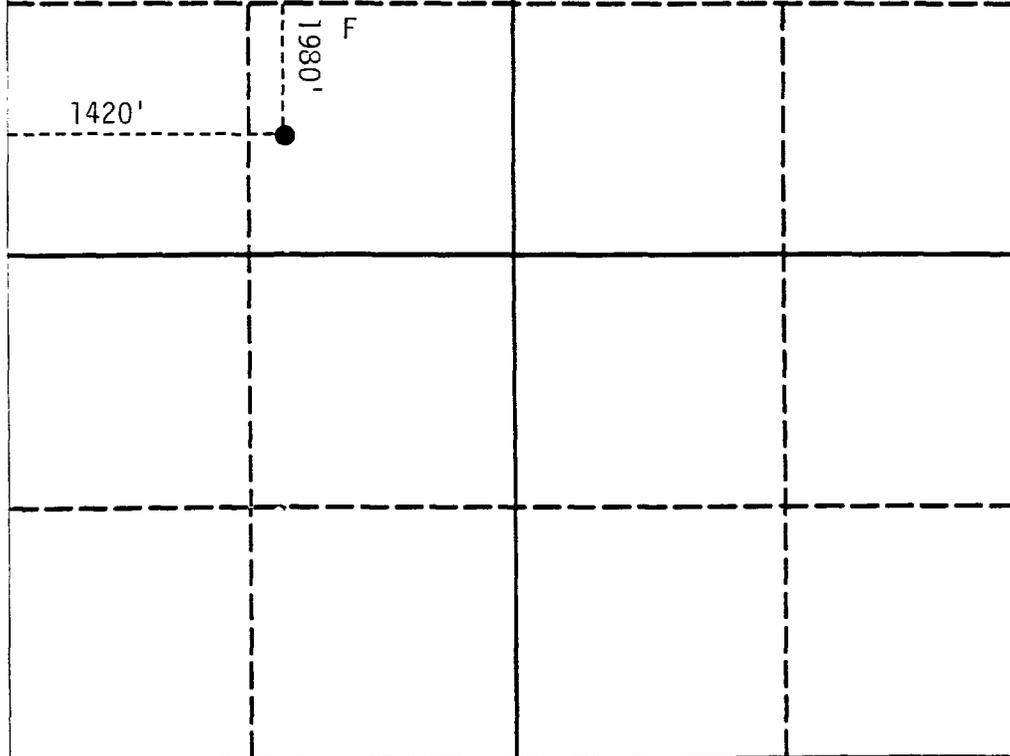
**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed \_\_\_\_\_

Signature & Seal of Professional Surveyor \_\_\_\_\_

Certificate No. \_\_\_\_\_



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

**MERIDIAN OIL**

March 15, 1993

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

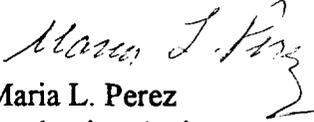
**RE: Offset Operator's Notification  
Form C108 Application for  
Authorization to Inject  
Hat Mesa State Well No. 10  
F, 1980' FNL & 1420' FWL  
Sec. 32, T20S, R33E  
Delaware Cherry Canyon Formation  
Lea County, NM**

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

MLP:aem

XC: Well File

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.	
Street and No.	
P.O. Box 2760	
P.O., State and ZIP Code	
Midland, TX 79701	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

**MERIDIAN OIL**

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  
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Sincerely,

  
Maria L. Perez  
Production Assistant

MLP:aem

XC: Well File

P 045 808 101



**Receipt for  
Certified Mail**

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

Sept 15	
Belco Petroleum	
Street and No.	
P.O. Box 2267	
City, State and ZIP Code	
Midland, TX 79702	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

# MERIDIAN OIL

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  
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Sincerely,



**Maria L. Perez**  
Production Assistant

MLP:aem

XC: Well File

P 045 808 102



## Receipt for Certified Mail

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

Sent to Exxon Co. USA	
Street and No. P.O. Box 1600	
P.O. State and ZIP Code Midland, TX 79702	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

**MERIDIAN OIL**

March 15, 1993

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

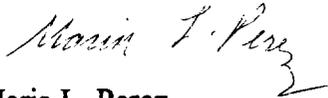
**RE: Offset Operator's Notification  
 Form C108 Application for  
 Authorization to Inject  
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 Sec. 32, T20S, R33E  
 Delaware Cherry Canyon Formation  
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Sincerely,



**Maria L. Perez**  
 Production Assistant

MLP:aem

XC: Well File



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 Do not use for International Mail  
 (See Reverse)

Sent to <b>Hallwood Petroleum, Inc.</b>	
Street and No. <b>P.O. Box 37811</b>	
P.O., State and ZIP Code <b>Denver, CO 80237</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

# MERIDIAN OIL

March 15, 1993

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

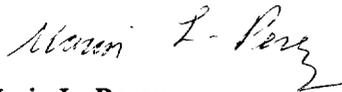
**RE: Offset Operator's Notification  
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F, 1980' FNL & 1420' FWL  
Sec. 32, T20S, R33E  
Delaware Cherry Canyon Formation  
Lea County, NM**

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Sincerely,



Maria L. Perez  
Production Assistant

MLP:aem

XC: Well File

P 045 808 104



## Receipt for Certified Mail

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

Sent to	Southwestern Resources	
Street and No.	P.O. Box 1756	
P.O. State and ZIP Code	Roswell, NM 88201	
Postage		\$
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Whom, Date, and Addressee's Address		
TOTAL Postage & Fees		\$
Postmark or Date:		

PS Form 3800, June 1991

# MERIDIAN OIL

March 15, 1993

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

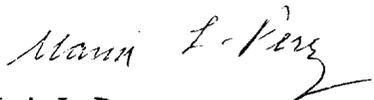
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Authorization to Inject  
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Sincerely,



**Maria L. Perez**  
Production Assistant

MLP:aem

XC: Well File

P 045 808 105



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(See Reverse)

Street Name	
Strata Production Co.	
Street and No.	
648 Petroleum Bldg.	
P.O. State and ZIP Code	
Roswell, NM 88201	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

**MERIDIAN OIL**

P 045 808 106

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  
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Sincerely,

  
Maria L. Perez  
Production Assistant

MLP:aem

XC: Well File



**Receipt for  
Certified Mail**

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

Sent to <b>Texaco Exploration and Production Co.</b>	
Street and No. <b>P.O. Box 730</b>	
P.O., State and ZIP Code <b>Hobbs, NM 88240</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt: Showing to Whom & Date Delivered	
Return Receipt: Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

RECEIVED OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

'93 MAR 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 application for the:

<i>Meridian Oil Inc.</i>	<i>Hat Mesa State</i>	<i>#10-F</i>	<i>32-20-33</i>
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

*OK*

Yours very truly,

Jerry Sexton  
Supervisor, District 1

/ed