

Hondo Oil & Gas Company

Box 2208

Roswell, New Mexico 88202

(505) 625-8700



August 24, 1988

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: Application for permit to convert to Salt Water Disposal
New Mexico AP State No. 1
1980' FNL & 660' FWL, Section 36, T-15S, R-36E
Lea County, New Mexico

Gentlemen:

Please find enclosed Hondo Oil & Gas Company's application for permit to convert the above captioned well into a salt water disposal.

Copies have been submitted to the surface owner and the offset operators.

If you should have any questions, please contact E. L. Buttross, Jr. at 505/625-8760.

Sincerely,

Lisa Bohannon
Engineering Technician

:lb

Enclosures

Hondo Oil & Gas Company

Box 2208

Roswell, New Mexico 88202

(505) 625-8700



August 24, 1988

TO: Offset Operators

RE: Application for permit to convert to Salt Water Disposal
New Mexico AP State No. 1
1980' FNL & 660' FWL, Section 36, T-15S, R36E
Lea County, New Mexico

Gentlemen:

According to the Oil Conservation Division Rule 701, a copy of any injection well permit application must be sent to the offset operators and surface owner. Enclosed is our application for administrative approval to convert the above captioned well to a salt water disposal.

If you should have any questions, please contact E. L. Buttross, Jr. at 505/625-8760.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Bohannon". The signature is written in dark ink and is positioned above the typed name and title.

Lisa Bohannon
Engineering Technician

:lb

Enclosures

Hondo Oil & Gas Company

Box 2208

Roswell, New Mexico 88202

(505) 625-8700



August 24, 1988

Jerry and Bob Dean
P. O. Box 1285
Lovington, New Mexico 88260

RE: Application for permit to convert to Salt Water Disposal
New Mexico AP State No. 1
1980' FNL & 660' FWL, Section 36, T-15S, R-36E
Lea County, New Mexico

Gentlemen:

According to the Oil Conservation Division Rule 701, a copy of any injection well permit application must be sent to the offset operators and surface owner. Enclosed is a our application for administrative approval to convert the above captioned well to a salt water disposal.

If you should have any questions, please contact E. L. Buttross, Jr. at 505/625-8760.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Bohannon". The signature is written in dark ink and is positioned above the typed name and title.

Lisa Bohannon
Engineering Technician

:lb

Enclosures

APPLICATION FOR AUTHORIZATION TO INJECT

New Mexico AP State #1

(E) Sec.36-T15S-R36E

Lea County, New Mexico

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: Hondo Oil & Gas Company

Address: P. O. Box 2208, Roswell, NM 88202

Contact party: E. L. Buttross, Jr. Phone: (505)625-8760

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:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. 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: E. L. Buttross, Jr.

Title: Petroleum Engineer

Signature: E. L. Buttross Jr.

Date: 8/24/88

* 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.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
SUPPLEMENTAL INFORMATION
NEW MEXICO AP STATE #1
LEA COUNTY, NEW MEXICO

ITEM:

III. Well Data

- A. (1) Well Name: New Mexico AP State #1
1980' FNL & 660' FWL
Section 36, T-15S, R-36E
Lea County, New Mexico
- (2) Casing Data: (Also see Exhibit "B")
- Surface Casing:
13 3/8" csg. set @ 340' in a 17 1/2" hole. Cemented
w/350 sx. Circulated cement to surface.
- Intermediate Casing:
8 5/8" csg. set @ 4950' in an 11" hole. Cemented with
2835 sx. Circulated cement to surface.
- Production Casing:
5 1/2" csg. set @ 11,660' in a 7 7/8" hole. Cemented
with 1125 sx. Temperature survey indicated TOC @ 3050'.
- (3) Injection Tubing:
- 2 7/8" 6.5# 8rd EUE, internally plastic coated tbg., set
@ approximately ±9800'.
- (4) Packer:
- Packer set @ ±9800'.
- B. (1) Injection Formation: Permo-Penn
- (2) Injection Interval:
- Injection will be thru existing perms. 9902-11,568'.
- (3) Original Purpose of Well:
- This well was drilled, completed and tested thru Permo-
Penn perms. 11,544-11,568'.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
NEW MEXICO AP STATE #1
Page -2-

(4) Other Perforated Intervals: (Also see Exhibit "B")

Well was later plugged back with a bridge plug set @ 11,162', perforated from 10,686-10,726', and tested. Again, plugged well back with a CIBP set @ 10,400', perforated from 10,175-9202', and tested. Well was P&A'd 7/25/83.

(5) Higher/Lower Oil Zones:

There is no higher oil zone and the top of the Devonian is @ ±13,600'.

V. Map: See Exhibit "A".

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
NEW MEXICO AP STATE #1
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VI. Wells in Area of Review:

Operator: Atlantic Richfield Company

Well Name: State AW #4

Location: 1980' FSL & 660' FEL, (I) Section 35, T15S, R36E

Spud Date: 3/16/58

Completion Date: 5/22/58

Surface Casing: 13 3/8" set @ 367', cemented with 350 sx.

Intermediate Casing: 8 5/8" set @ 4924', cemented with 1983 sx.

Production Casing: 5 1/2" set @ 11,597', cemented with 350 sx.

TD: 11,597'

Completion: Completed in the Penn from perforations 10,685-10,694' and 11,518-11,537'. Plugged back to 10,635' and converted to salt water disposal well by perforating the Penn @ 10,434-10,444' and 10,468-10,488'. Plugged back to 8391' and recompleted SWD to open hole from 4924-8391' in the San Andres/Glorieta. Finally, P&A'd 8/71.

~~500 F&A'd 9/4/80~~
TCC @ 9/75

Operator: Cities Service Oil Company

Well Name: State AW #3

Location: 2080' FSL & 1880' FEL, (J) Section 35, T15S, R36E

Spud Date: 10/30/56

Completion Date: 1/6/57

Surface Casing: 13 3/8" set @ 368', cemented with 350 sx.

Intermediate Casing: 8 5/8" set @ 4916', cemented with 2470 sx.

Production Casing: 5 1/2" set @ 11,584', cemented with 400 sx.

TD: 11,585'

Completion: Completed in the Penn from perforations 11,505-11,525'. For additional recovery, perforated the upper Penn from 10,641-10,675' and 10,396-10,408'. Perforated additional Permo-Penn from 10,443-10,483'. P&A'd well 8/28/70.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
NEW MEXICO AP STATE #1
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Operator: Exxon Corporation

Well Name: New Mexico AP St. #2

Location: 1895' FNL & 2141' FWL, (F) Section 36, T15S, R36E

Spud Date: 5/3/86

Surface Casing: 13 3/8" set @ 385', cemented with 450 sx.

Intermediate Casing: 8 5/8" set @ 4590', cemented with 2050
sx.

TD: 11,890'

Completion: Well was D&A'd 6/5/86.

Operator: Atlantic Richfield Company

Well Name: Lea 758 State #1

Location: 660' FNL & 660' FWL, (D) Section 36, T15S, R36E

Spud Date: 9/22/55

Completion Date: 1/28/56

Surface Casing: 13 3/8" set @ 305', cemented with 350 sx.

Intermediate Casing: 9 5/8" set @ 4985', cemented with 2800 sx.

Production Casing: 5 1/2" set @ 11,675', cemented with 400 sx.

TD: 13,005'

Completion: Completed from perforations 11,566-11,597'. Perforated additional sections of Penn from 10,654-10,664' and 10,670-10,678' and then squeezed same perfs. Perforated 10,731-10,737'. P&A'd well 6/22/74.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
NEW MEXICO AP STATE #1
Page -5-

Operator: Mobil Oil Corporation

Well Name: New Mexico J #1

Location: 1980' FSL & 660' FWL, (L) Section 36, T15S, R36E

Spud Date: 10/3/56

Completion Date: 12/2/56

Surface Casing: 13 3/8" set @ 440', cemented with 425 sx.

Intermediate Casing: 9 5/8" set @ 4971', cemented with 2720 sx.

Production Casing: 7" set @ 11,636', cemented with 1550 sx.

TD: 11,636'

Completion: Completed in the Penn from perforations 11,530-11,582'. Added Permo-Penn perfs. from 10,688-10,730'. P&A'd well 12/29/70.

Operator: Yates Petroleum Corporation

Well Name: Phillips YX St. #1

Location: 990' FSL & 330' FWL, (M) Section 36, T15S, R36E

Spud Date: 1/31/84

Completion Date: 6/12/84

Surface Casing: 13 3/8" set @ 398', cemented with 375 sx.

Intermediate Casing: 8 5/8" set @ 4906', cemented with 2750 sx.

Production Casing: 5 1/2" set @ 11,727', cemented with 1300 sx.

TD: 11,727'

Completion: Completed in the Permo-Penn. Perforated 11,525-11,530' and 10,695-10,700' and set BP @ 11,448'. Added perforations from 11,018-11,054'. P&A'd well 10/14/85.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
NEW MEXICO AP STATE #1
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Operator: Gulf Oil Corporation

Well Name: Lea HQ St. #1

Location: 660' FSL & 660' FWL, (M) Section 25, T15S, R36E

Spud Date: 1/25/57

Completion Date: 4/3/57

Surface Casing: 13 3/8" set @ 322', cemented with 450 sx.

Intermediate Casing: 8 5/8" set @ 4984', cemented with 3050 sx.

Production Casing: 5 1/2" set @ 11,652', cemented with 675 sx.

TD: 11,653'

Completion: Completed in the Penn from perforations 11,592-11,626'. Added perforations from 10,740-10,768'. P&A'd well 4/13/73.

Operator: Atlantic Richfield Company

Well Name: Lea 396 St. #3

Location: 1980' FNL & 1980' FEL, (G) Section 35, T15S, R36E

Spud Date: 1/23/56

Completion Date: 6/25/56

Surface Casing: 13 3/8" set @ 319', cemented with 350 sx.

Intermediate Casing: 9 5/8" set @ 4939', cemented with 2600 sx.

Production Casing: 7" set @ 13,725', cemented with 810 sx.

TD: 13,726'

Completion: Dually completed in the Devonian and Penn from perforations 13,690-13,720' and 11,546-11,578'. Added Permo-Penn perfs. 10,396-10,404' and 10,656-10,669'. Squeezed perfs. 10,396-11,577'. Converted to salt water disposal through perfs. 13,690-13,720'. P&A'd well 11/29/78.

TCC® 8872 ok

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
NEW MEXICO AP STATE #1
Page 7

VII. Proposed Operations Data:

- (1) Average Daily Injection Rate - 3000 BWPD
Maximum Daily Injection Rate - 4000 BWPD
- (2) Type of System - Closed
- (3) Average Injection Pressure - 1500 psi
Maximum Injection Pressure - 2000 psi
- (4) Source of Injection Water - Water produced from the Hondo wells J. P. Dean #1 and the Lea 396 St. #2. Water analyses are attached.
- (5) Chemical Analysis of Disposal Zone Formation - Analysis should be similar to the one for the Lea 396 St. #2.

VIII. Geological Data:

The proposed injection zone is the Permo-Penn from 9902-11,568'. This formation consists primarily of dolomite and limestone with some interbedded shale.

The underground sources of drinking water overlying the proposed injection zone are as follows (obtained from the State Engineers Office):

<u>Geologic Name</u>	<u>Depth to Bottom of Formation</u>
Ogalalla	250'
Triassic	500'

There are no known sources of drinking water underlying the proposed injection interval.

IX. Proposed Stimulation Program:

Plans are to acidize the Permo-Penn from 9902-11,568' with approximately 6000 gals. 15% NE-FE with ball sealers.

X. Well Logs:

Copies of the well logs have been filed with the Commission.

HONDO OIL & GAS COMPANY
APPLICATION FOR AUTHORITY TO INJECT
NEW MEXICO AP STATE #1
Page 8

XI. Chemical Analysis of Fresh Water:

There are two known producing fresh water wells within one mile of the proposed injection well. Water analyses are attached.

XII. Upon examination of the available geologic and engineering data no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water was found.

SURFACE OWNERS:

Jerry & Bob Dean
P. O. Box 1285
Lovington, NM 88260

OFFSET OPERATORS:

Yates Petroleum Corporation
105 S. 4th
Artesia, NM 88210

Elk Oil Company
P. O. Box 310
Roswell, NM 88202

Exxon, U.S.A.
Box 1600
Midland, TX 79702

Gulf Oil Explor. & Prod. Co.
1923 N. Dal Paso
Hobbs, NM 88240

Harvey E. Yates Co.
One Sunwest Center
Roswell, NM 88201

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, William H. Shearman, Jr.

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of _____

One weeks.
Beginning with the issue dated

August 10, 1988
and ending with the issue dated

August 10, 1988

Bill Shearman
Business Manager

Sworn and subscribed to before

me this 11 day of

August, 1988

Chera Murphy
Notary Public.

My Commission expires _____

November 14, 1988
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE

August 10, 1988

35 Hondo Oil & Gas Company has applied for authority to convert the New Mexico AP State Well No. 1, located 1980' FNL & 660' FWL, Section 36, T-15S, R-36E, Lea County, New Mexico, into a salt water disposal well. Water produced from the Hondo wells J.P. Dean #1 and Lea 396 St. #2 will be disposed into the Permo-Penn formation from 9902-11,586'. The maximum daily injection rate will be 4000 BWPD with a maximum pressure of 2000 psi.

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 of this notice.

E.L. Buttriss, Jr.
Petroleum Engineer
Hondo Oil &
Gas Company
P.O. Box 2208
Roswell, New Mexico
88202
(505) 625-8760

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
†(Extra charge)†

3. Article Addressed to:

Harvey E. Yates Co.
One Sunwest Center
Roswell, NM 88201

4. Article Number

P663380981

Type of Service:

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and **DATE DELIVERED.**

8. Addressee's Address (ONLY if requested and fee paid)

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
†(Extra charge)†

3. Article Addressed to:

Gulf Oil Explor. & Prod. Co.
1923 N. Dal Paso
Hobbs, NM 88240

4. Article Number

P663380980

Type of Service:

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and **DATE DELIVERED.**

8. Addressee's Address (ONLY if requested and fee paid)

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

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1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
†(Extra charge)†

3. Article Addressed to:

Exxon, U.S.A.
Box 1600
Midland, TX 79702

4. Article Number

P663380979

Type of Service:

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and **DATE DELIVERED.**

8. Addressee's Address (ONLY if requested and fee paid)

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery ^{†(Extra charge)†}

3. Article Addressed to:		4. Article Number P663380978	
Elk Oil Company P. O. Box 310 Roswell, NM 88202		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and DATE DELIVERED.			
5. Addressee's Address (ONLY if requested and fee paid)		6. Signature — Addressee	
X		X	
6. Signature — Agent		X	
7. Date of Delivery		X	

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SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery ^{†(Extra charge)†}

3. Article Addressed to:		4. Article Number P663380977	
Yates Petroleum Corp. 105 S. 4th Artesia, NM 88210		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and DATE DELIVERED.			
5. Signature — Addressee		6. Addressee's Address (ONLY if requested and fee paid)	
X		X	
6. Signature — Agent		X	
7. Date of Delivery		X	

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery ^{†(Extra charge)†}

3. Article Addressed to:		4. Article Number P663380976	
Jerry & Bob Dean P. O. Box 310 Lovington, NM 88260		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and DATE DELIVERED.			
5. Signature — Addressee		6. Addressee's Address (ONLY if requested and fee paid)	
X		X	
6. Signature — Agent		X	
7. Date of Delivery		X	

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult Postmaster for fees and check box(es) for additional service(s) requested.
1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
(Extra charge)

3. Article Addressed to:

NMOCD

P. O. Box 1980

Hobbs, NM 88240

4. Article Number

P663380983

Type of Service:

☐ Registered

☒ Certified

☐ Express Mail

☐ Insured

☐ COD

Always obtain signature of addressee or agent and **DATE DELIVERED**

8. Addressee's Address (**ONLY if requested and fee paid**)

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

PS Form 3811, Mar. 1987

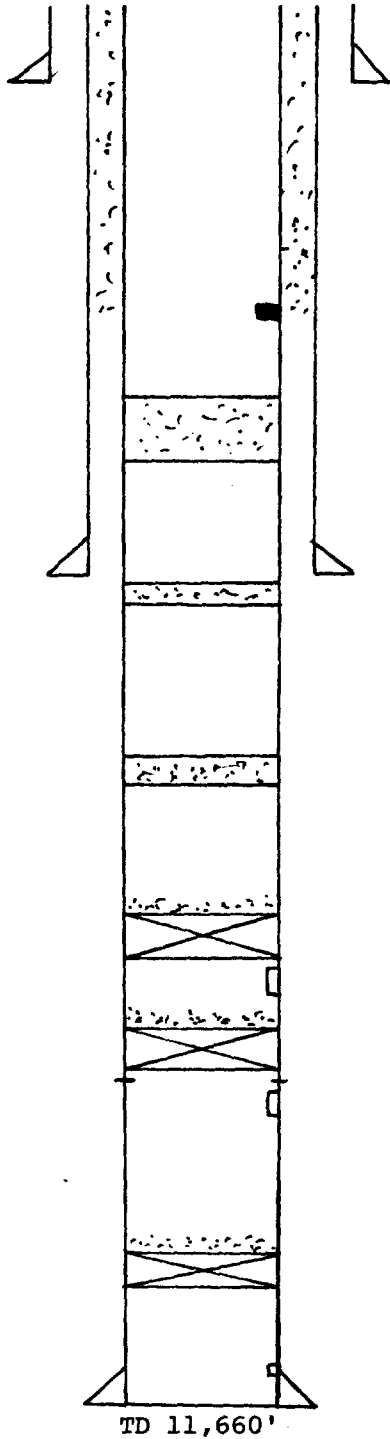
* U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

EXHIBIT "B"

Hondo Oil & Gas Company
Application to Inject
New Mexico AP St. #1
Lea County, New Mexico

PRESENT



13 3/8" csg. set @
340'

Perf. @ 2200' and pumped
525 sx. cmt. from 2200'-
surf.

40 sx. cmt. plug
@ 3200'

8 5/8" csg. set @
4950'
20 sx. cmt. plug @
5000'

20 sx. cmt. plug @
7400'

2 7/8" Internally
Plastic Coated
Tbg.
CIBP set @ 9770' w/35'
cmt. cap

Perf. 9902-10,175'

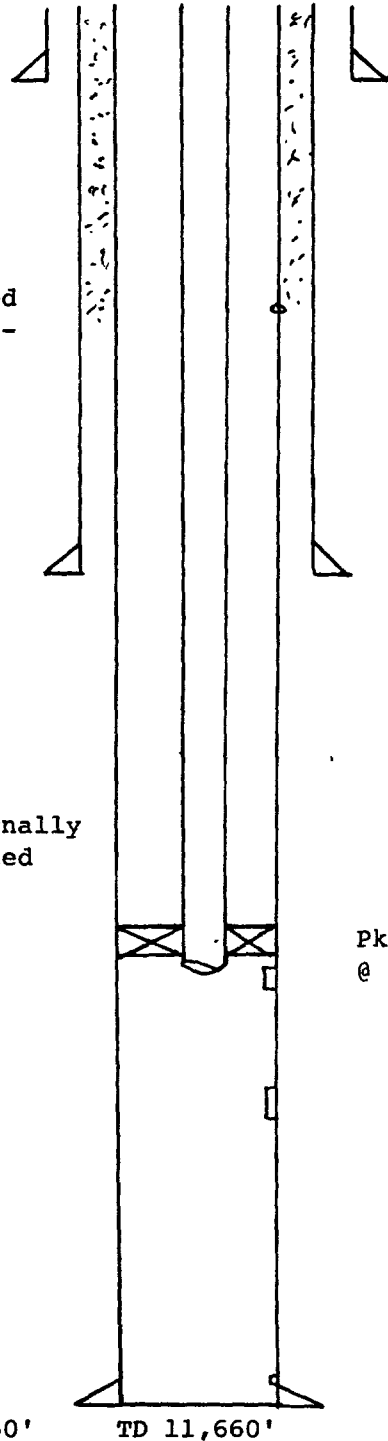
CIBP set @ 10,400' w/
4 sx. cmt. cap
DV Tool @ 10,594'
Perf. 10,686-10,726'

CIBP set @ 11,162' w/
35' cmt. plug on top

Perf. Penn 11,544-
11,568'

5 1/2" csg. set @ 11,660'

PROPOSED



Pkr. set
@ ± 9800'

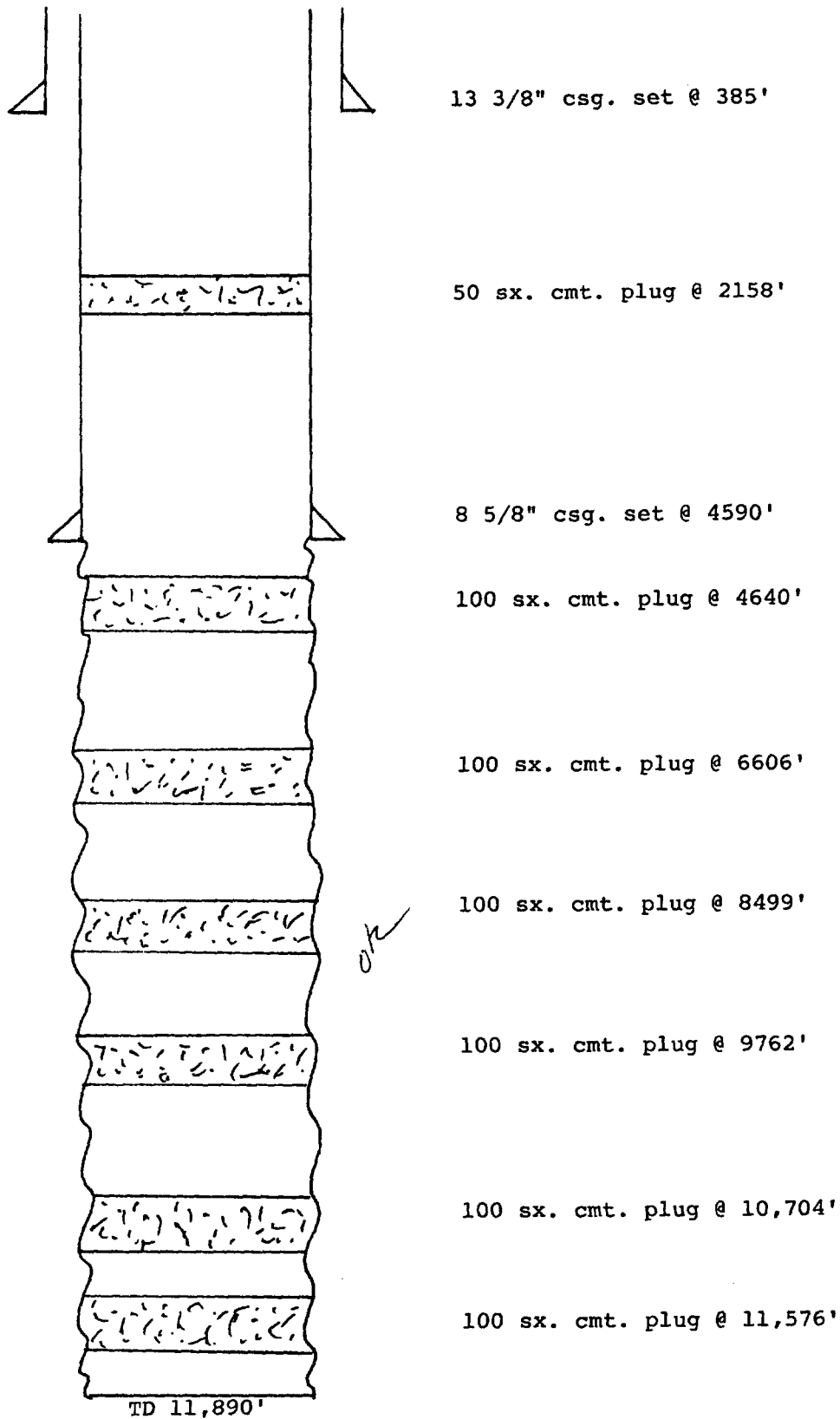
Perf. 11,518-37'
5 1/2" csg. set @ 11,597'

TD 11,597'

5 1/2" csg. set @ 11,584'

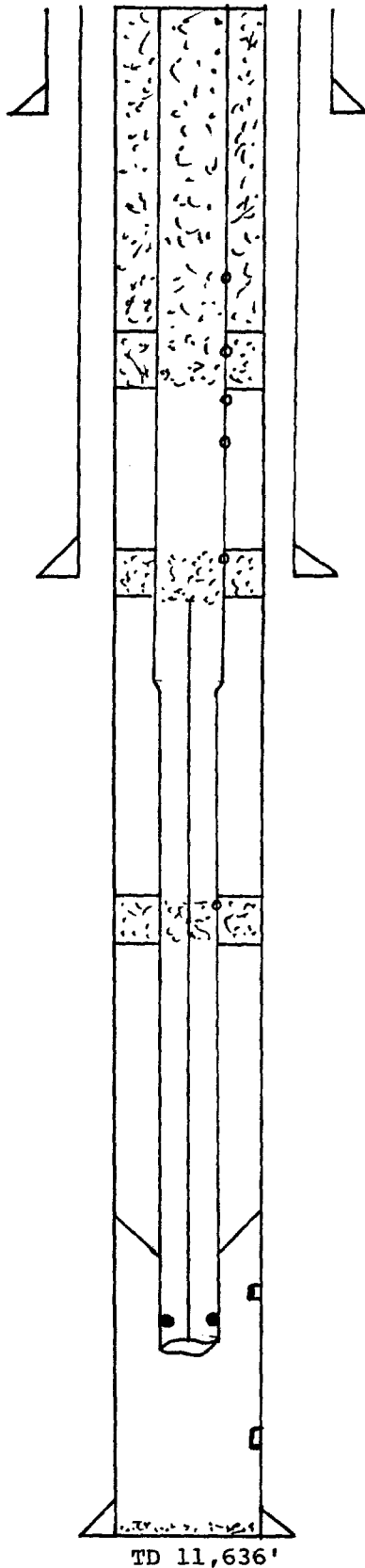
TD 11,585'

EXXON CORPORATION
NEW MEXICO AP ST. #2
1895' FNL & 2141' FWL
Section 36, T15S, R36E
Lea County, New Mexico



TD 13,005'

MOBIL OIL CORPORATION
 NEW MEXICO J #1
 1980' FSL & 660' FWL
 Section 36, T15S, R36E
 Lea County, New Mexico



cut off 13 3/8", 9 5/8" and 7" csg. @ surf.

13 3/8" csg. set @ 440'

Perf. tbg. @ 3400'; cmt. down tbg. w/900 sx., circ. to surf., then sqz. 300 sx. into formation

Perf. tbg. @ 3800'; cmt. down tbg. w/50 sx. w/l bbl. in tbg.

Perf. tbg. @ 4360' & 4150'

Perf. 2 1/2" tbg. @ 4900'; cmt. down tbg. w/50 sx. w/l bbl. in tbg.

9 5/8" csg. set @ 4971'

top of rods approx. @ 5075'

2 1/2" tbg. to 5789'

Perf. 2" tbg. @ 8000'; cmt. down tubing w/50 sx. w/l bbl. cmt. in tbg.

tbg. anchor @ 10,662'

SN @ 10,737'

Perf. 10,688-730'

2" tbg. from 5789-10,768'

Perf. 11,530-82'

7" csg. set @ 11,636'

PBTD 11,623'

TD 11,636'

13 3/8" csg. set @ 398'

8 5/8" csg. set @ 4906'
35 sx. cmt. plug @ 4953'
tag plug @ 4820'

35 sx. cmt. plug @ 6554'
tag plug @ 6410'
shot 5 1/2" csg. @ 6500' and pulled

CIBP set @ 10,645' w/35' cmt. on top
Perf. 10,695-700'

CIBP set @ 10,968' w/35' cmt. on top

Perf. 11,018-54'

35' cmt. on top of RBP
PBSD 11,448' w/RBP
Perf. 11,525-30'

5 1/2" csg. set @ 11,727'

TD 11,727'

TD 11,653'

13 3/8" csg. set @ 322'

30 sx. cmt. plug from 2200-2100'

50 sx. cmt. plug from 5000-4800'
8 5/8" csg. set @ 4984'

100 sx. cmt. plug from 6566-6186'
cut and pulled 5 1/2" csq. @ 6516'

Perf. 10,740-68'

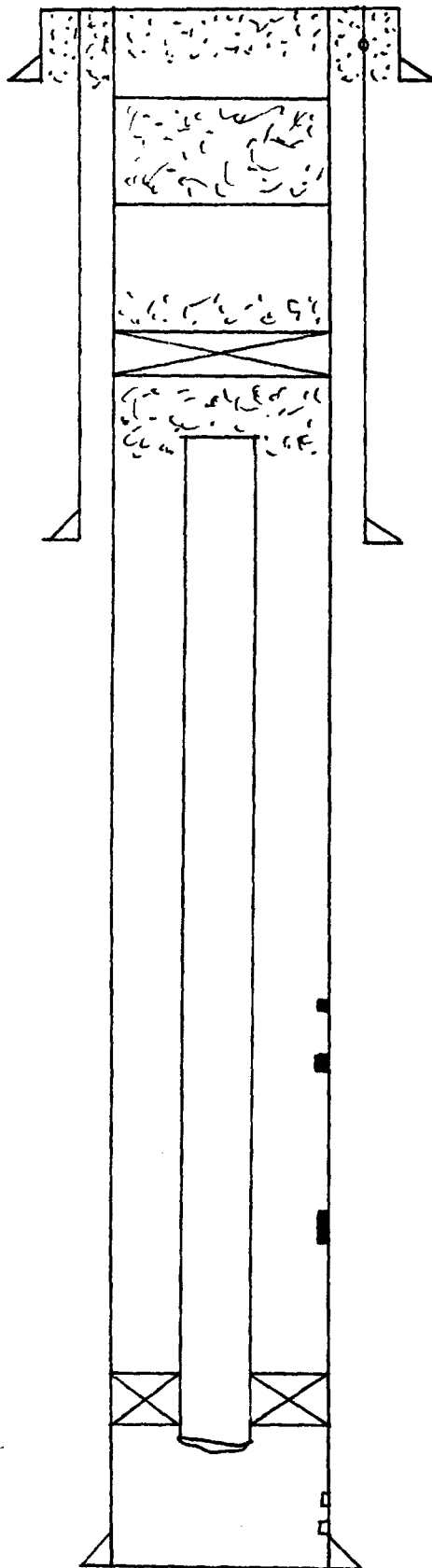
100 sx. cmt. plug from 11,475-10,528'

Bull plug seal assembly set in Baker Model
N pkr. @ 11,475'

Perf. 11,592-626'
5 1/2" csg. set @ 11,652'

TD 11,653'

ATLANTIC RICHFIELD COMPANY
 LEA 396 ST. #3
 1980' FNL & 1980' FEL
 Section 35, T15S, R36E
 Lea County, New Mexico



cmt. sqz. w/260 sx. thru swage in 7" csg.
 and hole in 9 5/8" @ 194'
 13 3/8" csg. set @ 319'

320 sx. cmt. plug from 2100-350'

cmt. retainer set @ 4320' w/100 sx. cmt. below
 ret. and 100 sx. cmt. from 4320-3637'

rec. 2 3/8" tbg. to 4536'

9 5/8" csg. set @ 4939'

Perf. 10,396-404'

Perf. 10,656-69'

sqz. perfs. 10,396-11,578' w/471
 sx. cmt.

Perf. 11,546-78'

2 3/8" tbg. in pkr. set @ 13629'

Perf. 13,690-99'

Perf. 13,710-20'

7 1/2" csg. set @ 13,725'

TD 13,726'

WATER ANALYSIS REPORT

Lab ID No. : 060788D

Analysis Date: June 7, 1988

Company : Hondo Oil & Gas Co.
Field :
Lease/Unit : J. P. Dean
Well ID. :
Sample Loc.:

Sampled By : Don Bamert
Sample Date:
Salesperson: Don Bamert
Formation :
Location : Hobbs, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca++	2,006	100.3	Hydroxyl as OH-	0	0.0
Magnesium as Mg++	579	47.4	Carbonate as CO3=	0	0.0
Sodium as Na+ (Calc)	79,093	3,438.8	Bicarbonate as HCO3-	453	7.4
Barium as Ba++	Not Determined		Sulfate as SO4=	2,600	54.2
Other	0		Chloride as Cl-	124,972	3,525.0

Total Dissolved Solids, Calculated: 209,703 mg/L.

Calculated Resistivity: 0.010 ohm-meters pH: 5.940
mg/L. Hydrogen Sulfide: Present Specific Gravity 60/60 F.: 1.134
mg/L. Carbon Dioxide: Not Determined Saturation Index @ 80 F.: -0.321
mg/L. Dissolved Oxygen: Not Determined @ 140 F.: +0.779

Total Hardness: 7,385 mg/L. as CaCO3
Total Iron: 8 mg/L. as Fe++

PROBABLE MINERAL COMPOSITION

	COMPOUND	MG/L	MEQ/L
	Ca(HCO3)2	601	7
Calcium Sulfate Scaling Potential Not Present	CaSO4	3,687	54
	CaCl2	2,149	39
Estimated Temperature of Calcium Carbonate Instability is 95 F.	Mg(HCO3)2	0	0
	MgSO4	0	0
	MgCl2	2,260	47
	NaHCO3	0	0
	Na2SO4	0	0
Analyst	NaCl	201,034	3,439
01:29 PM			

WATER ANALYSIS REPORT

Lab ID No. : 060788E

Analysis Date: June 7, 1988

Company : Hondo Oil & Gas Co.
Field :
Lease/Unit : Lea
Well ID. : No. 396
Sample Loc.:

Sampled By : Don Bamert
Sample Date:
Salesperson: Don Bamert
Formation :
Location : Hobbs, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca++	10,699	534.9	Hydroxyl as OH-	0	0.0
Magnesium as Mg++	1,563	128.1	Carbonate as CO3=	0	0.0
Sodium as Na+ (Calc)	56,410	2,452.6	Bicarbonate as HCO3-	134	2.2
Barium as Ba++	Not Determined		Sulfate as SO4=	550	11.5
Other	0		Chloride as Cl-	109,975	3,102.0

Total Dissolved Solids, Calculated: 179,331 mg/L.

Calculated Resistivity: 0.014 ohm-meters
mg/L. Hydrogen Sulfide: Not Present
mg/L. Carbon Dioxide: Not Determined
mg/L. Dissolved Oxygen: Not Determined

pH: 5.950
Specific Gravity 60/60 F.: 1.121
Saturation Index @ 80 F.: -0.201
 @ 140 F.: +0.789

Total Hardness: 33,113 mg/L. as CaCO3
Total Iron: 40 mg/L. as Fe++

PROBABLE MINERAL COMPOSITION

	COMPOUND	MG/L	MEQ/L
	Ca(HCO3)2	178	2
Calcium Sulfate Scaling Potential Not Present	CaSO4	780	11
	CaCl2	28,932	521
Estimated Temperature of Calcium Carbonate Instability is 89 F.	Mg(HCO3)2	0	0
	MgSO4	0	0
	MgCl2	6,101	128
	NaHCO3	0	0
	Na2SO4	0	0
Analyst	NaCl	143,379	2,453
01:30 PM			

WATER ANALYSIS REPORT

Lab ID No. : 060788F

Analysis Date: June 7, 1988

Company : Hondo Oil & Gas Co.
Field :
Lease/Unit : Fresh Water
Well ID. : No. of Lea 396
Sample Loc.:

Sampled By : Don Bamert
Sample Date:
Salesperson: Don Bamert
Formation :
Location : Hobbs, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca++	115	5.7	Hydroxyl as OH-	0	0.0
Magnesium as Mg++	29	2.4	Carbonate as CO3=	0	0.0
Sodium as Na+ (Calc)	49	2.1	Bicarbonate as HCO3-	177	2.9
Barium as Ba++	Below 10		Sulfate as SO4=	82	1.7
Other	0		Chloride as Cl-	200	5.6

Total Dissolved Solids, Calculated: 652 mg/L.

Calculated Resistivity: 2.703 ohm-meters
mg/L. Hydrogen Sulfide: Not Present
mg/L. Carbon Dioxide: Not Determined
mg/L. Dissolved Oxygen: Not Determined

pH: 7.670
Specific Gravity 60/60 F.: 1.000
Saturation Index @ 80 F.: +0.484
@ 140 F.: +1.184

Total Hardness: 405 mg/L. as CaCO3
Total Iron: 0.8 mg/L. as Fe++

PROBABLE MINERAL COMPOSITION

COMPOUND	MG/L	MEQ/L
Ca(HCO3)2	235	3
CaSO4	116	2
CaCl2	62	1
Mg(HCO3)2	0	0
MgSO4	0	0
MgCl2	113	2
NaHCO3	0	0
Na2SO4	0	0
NaCl	126	2

Calcium Sulfate Scaling Potential
Not Present

Estimated Temperature of Calcium
Carbonate Instability is
58 F.

Analyst 01:32 PM

WATER ANALYSIS REPORT

Lab ID No. : 060788G

Analysis Date: June 7, 1988

Company : Hondo Oil & Gas Co.
Field :
Lease/Unit : Fresh Water
Well ID. : So. of Lea 396
Sample Loc.:

Sampled By : Don Bamert
Sample Date:
Salesperson: Don Bamert
Formation :
Location : Hobbs, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca++	76	3.8	Hydroxyl as OH-	0	0.0
Magnesium as Mg++	23	1.9	Carbonate as CO3=	0	0.0
Sodium as Na+ (Calc)	55	2.4	Bicarbonate as HCO3-	161	2.6
Barium as Ba++	Below 10		Sulfate as SO4=	100	2.1
Other	0		Chloride as Cl-	120	3.4

Total Dissolved Solids, Calculated: 536 mg/L.

Calculated Resistivity: 2.588 ohm-meters	pH: 8.310
mg/L. Hydrogen Sulfide: Not Present	Specific Gravity 60/60 F.: 1.003
mg/L. Carbon Dioxide: Not Determined	Saturation Index @ 80 F.: +0.909
mg/L. Dissolved Oxygen: Not Determined	@ 140 F.: +1.609

Total Hardness:	286	mg/L. as CaCO3
Total Iron:	0.6	mg/L. as Fe++

PROBABLE MINERAL COMPOSITION

	COMPOUND	MG/L	MEQ/L
	Ca(HCO3)2	214	3
Calcium Sulfate Scaling Potential Not Present	CaSO4	80	1
	CaCl2	0	0
Estimated Temperature of Calcium Carbonate Instability is 54 F.	Mg(HCO3)2	0	0
	MgSO4	55	1
	MgCl2	47	1
	NaHCO3	0	0
	Na2SO4	0	0
Analyst	NaCl	140	2

01:33 PM

Hondo Oil & Gas Company

Box 2208

Roswell, New Mexico 88202

(505) 625-8700



September 1, 1988

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: SWD Application
New Mexico AP State No.1
1980' FNL & 660' FWL, Section 36, T-15S, R-36E
Lea County, New Mexico

Gentlemen:

Please find enclosed copies of the signed return receipts for notification of the above captioned matter as required by Oil Conservation Division Rule 701.

If any more information is needed, please contact E. L. Buttross, Jr. at 505/625-8760.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Bohannon". The signature is written in dark ink and is positioned above the typed name and title.

Lisa Bohannon
Engineering Technician

:lb

Enclosures

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑

3. Article Addressed to: Harvey E. Yates Co. One Sunwest Center Roswell, NM 88201		4. Article Number P663380981
5. Signature — Addressee X		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED .
6. Signature — Agent X		
7. Date of Delivery 8/25/88		
8. Addressee's Address (ONLY if requested and fee paid)		

DOMESTIC RETURN RECEIPT

★ U.S.G.P.O. 1987-178-268

PS Form 3811, Mar. 1987

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

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1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑

3. Article Addressed to: Elk Oil Company P. O. Box 310 Roswell, NM 88202		4. Article Number P663380978
5. Signature — Addressee X		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED .
6. Signature — Agent X		
7. Date of Delivery 8-25-88		
8. Addressee's Address (ONLY if requested and fee paid)		

DOMESTIC RETURN RECEIPT

★ U.S.G.P.O. 1987-178-268

PS Form 3811, Mar. 1987

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↑(Extra charge)↑

3. Article Addressed to: Yates Petroleum Corp. 105 S. 4th Artesia, NM 88210		4. Article Number P663380977
5. Signature — Addressee X		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED .
6. Signature — Agent X		
7. Date of Delivery 8/25/88		
8. Addressee's Address (ONLY if requested and fee paid)		

PS Form 3811, Mar. 1987

★ U.S.G.P.O. 1987-178-268

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1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑

3. Article Addressed to:		4. Article Number P663380976	
Jerry & Bob Dean P. O. Box 310 Lovington, NM 88260		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and DATE DELIVERED.			
5. Signature - Addressee <i>[Signature]</i> X		8. Addressee's Address (ONLY if requested and fee paid)	
6. Signature - Agent X			
7. Date of Delivery			

PS Form 3811, Mar. 1987 ★ U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

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1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑

3. Article Addressed to:		4. Article Number P663380980	
Gulf Oil Explor. & Prod. Co. 1923 N. Dal Paso Hobbs, NM 88240		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and DATE DELIVERED.			
5. Signature - Addressee X		8. Addressee's Address (ONLY if requested and fee paid)	
6. Signature - Agent <i>[Signature]</i> X		1923 N. Dal Paso	
7. Date of Delivery 8-25-84			

PS Form 3811, Mar. 1987 ★ U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

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1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑

3. Article Addressed to:		4. Article Number P663380979	
Exxon, U.S.A. Box 1600 Midland, TX 79702		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and DATE DELIVERED.			
5. Signature - Addressee X		8. Addressee's Address (ONLY if requested and fee paid)	
6. Signature - Agent <i>[Signature]</i> X			
7. Date of Delivery 8-25-84			

PS Form 3811, Mar. 1987 ★ U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

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1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: NMOCD P. O. Box 2088 Santa Fe, NM 87501	4. Article Number P663380982 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X	
7. Date of Delivery	

PS Form 3811, Mar. 1987 ★ U.S.G.P.O. 1987-178-268 **DOMESTIC RETURN RECEIPT**

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1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: NMOCD P. O. Box 1980 Hobbs, NM 88240	4. Article Number P663380983 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X	
7. Date of Delivery	

PS Form 3811, Mar. 1987 ★ U.S.G.P.O. 1987-178-268 **DOMESTIC RETURN RECEIPT**



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

8-26-88

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	<input checked="" type="checkbox"/>
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Hondo Oil & Gas Co. Exon Corp. N. Mex. AP St #1-E 36-15-36
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

[Signature]

Yours very truly,

[Signature]
Jerry Sexton
Supervisor, District 1

/ed