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RECEIVED

July 26, 1989

JUL 2 8 1989

OIL CONSERVATION DIV. SANTA FE

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

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 22Y 660' FSL & 1990' FEL, Section 9, T17S, R31E Eddy County, New Mexico

Gentlemen:

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

Copies have been submitted to the surface owner, the offset operators and the NMOCD district office in Artesia.

If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Lisa Bohannon

Engineering Technician

Clauncu

LB/jw

Box 2208 Roswell, New Mexico 88202 (505)625-8700



July 26, 1989

Bureau of Land Management P.O. Box 1778 Carlsbad, NM 88220

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 22Y 660' FSL & 1990' FEL, Section 9, T17S, R31E Eddy 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 copy of our application for administrative approval to convert the above captioned well to a water injection well.

If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Lisa Bohannon

Engineering Technician

sa Bohannen

LB/jw

Box 2208 Roswell, New Mexico 88202 (505)625-8700



July 26, 1989

Anadarko Production Company P.O. Drawer 130 Artesia, NM 88210

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 22Y 660' FSL & 1990' FEL, Section 9, T17S, R31E Eddy County, New Mexico

Gentlemen:

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If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Lisa Bohannon

Engineering Technician

lisa Bohannon

LB/jw

Box 2208 Roswell, New Mexico 88202 (505)625-8700



July 26, 1989

Morexco, Inc. P.O. Box 481 Artesia, NM 88210

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 22Y 660' FSL & 1990' FEL, Section 9, T17S, R31E Eddy County, New Mexico

Gentlemen:

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If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Lisa Bohannon

Engineering Technician

Kohannou

LB/jw

Box 2208 Roswell, New Mexico 88202 (505)625-8700



July 26, 1989

Trinity University & Closuit 777 Taylor Street P-I Suite B Ft. Worth, TX 76102

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 22Y 660' FSL & 1990' FEL, Section 9, T17S, R31E Eddy County, New Mexico

Gentlemen:

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If you should have any questions, please contact Ron Brown at 505/625-6735.

Sincerely,

Lisa Bohannon

Engineering Technician

Bohaunon

LB/jw

Box 2208 Roswell, New Mexico 88202 (505)625-8700



July 26, 1989

Ray Westall P.O. Box 4 Loco Hills, NM 88255

RE: Application for permit to convert to Water Injection H.E. West "B" Well No. 22Y 660' FSL & 1990' FEL, Section 9, T17S, R31E Eddy County, New Mexico

Gentlemen:

According to the Oil Conservation Division Rule 701, a copy of any injection well permit 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 water injection well.

If you should have any questions, please contact Ron Brown at 505/625-6735.

Bohannon

Sincerely,

Lisa Bohannon

Engineering Technician

LB/jw

POST OFFICE BOX 2018 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Kyes Ono				
II.	Operator: Hondo Oil & Gas Company				
	Address: P. O. Box 2208, Roswell, NM 88202				
	Contact party: Ron Brown Phone: (505)625-6735				
111.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.				
IV.	Is this an expansion of an existing project? \overline{x} yes \overline{x} no If yes, give the Division order number authorizing the project $\overline{x-2268}$.				
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.				
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.				
VII.	Attach data on the proposed operation, including:				
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). 				
VIII.	Attach appropriate geological data on the injection zone including appropriate lithologication, 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.				
· 1x.	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.				
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.				
XIV.	Certification ·				

Date: 7/21/89 * 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. Copies of current well logs are attached.

to the best of my knowledge and belief.

Ron Brown

Name:

I hereby certify that the information submitted with this application is true and correct

Title Petroleum Engineer

ITEM:

III. Well Data

- A. (1) Well Name: H.E. West "8" #22Y 660' FSL & 1990' FEL Section 9, T17S, R31E Eddy County, New Mexico
 - (2) Casing Data:

Surface Casing: 8 5/8" csg set @ 694', cemented with 100 sx.

Production Casing:
5 1/2" csg set @ 3731', cemented with 100 sx.

- (3) Injection Tubing:
 2 3/8", 4.7#, 8rd EUE, plastic coated tbg, set @
 + 3185'.
- (4) <u>Packer</u>: Packer set @ + 3185'.
- B. (1) <u>Injection Formation</u>:

The injection formation will be the Grayburg San Andres.

(2) Injection Interval:

The injection interval is to be from 3239-3676' and the OH interval 3731-3856'.

(3) Original Purpose of Well:

This well was originally drilled, completed and tested in the Grayburg San Andres as a producer from perforations 3672-3680' and 3260-3270'.

(4) Added Perforated Intervals: (Also see Exhibit "B".)

Existing perforations 3672-3680' and 3260-3270' were squeezed. Perforations were made from 3040-3042' and squeezed. Perforations were made from 3558-3572' and this interval was tested then squeezed. This well has been perforated from 3483-3676' and 3239-3434' for conversion to an injector.

(5) Higher/Lower Oil Zones:

The top of the Seven Rivers is @ ± 2300' and there is no lower oil zone.

V. Map:

See Exhibit "A".

VI. Wells in Area of Review:

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #45

Location: 660' FSL & 1980' FWL, Section 9, T17S, R31E

Completion Date: 5/89

Surface Casing: 85/8", 24#, set @ 473', cemented with 300 sx.

Production Casing: 5 1/2", 17#, set @ 3855', cemented with 1000 sx.

Total Depth: 3855'

Completion: Well completed from perforations 3190-3380', 3422-3601'

and 3634-3728'.

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "8" #17

Location: 1980' FSL & 660' FEL, (I) Section 9, T17S, R31E

Completion Date: 10/58

Surface Casing: 10 3/4" set @ 747', cemented with 100 sx.

Production Casing: 5 1/2" set @ 3670', cemented with 100 sx.

Liner: 4" set from 3000-3878', cemented with 50 sx.

Total Depth: 3878'

Completion: Completed in the Grayburg San Andres as a producer

from perforations 3338-3356'. Converted to injection with the addition of perforations from 3296-3624'. Converted to single WIW by setting a packer @ 3242'. Deepened, ran liner and will inject though

new perforations.

VI. Wells in Area of Review:

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #21

Location: 660' FSL & 660' FWL, (L) Section 10, T17S, R31E

Completion Date: 5/59

Surface Casing: 10 3/4" set @ 734', cemented with 100 sx.

Production Casing: 5 1/2" set @ 3802', cemented with 125 sx.

Total Depth: 3917'

Completion: Completed in the Grayburg San Andres as a producer

from perforations 3362-3370'. Added perforations from 3416-3775'. Deepened and converted to injection through existing perforations from 3576-3773'

and 3294-3511' and OH 3802-3917'.

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #12

Location: 1980' FNL & 1980' FEL, (G) Section 9, T17S, R31E

Completion Date: 9/56

Surface Casing: 9 5/8" csg set @ 668', cemented with 100 sx.

Intermediate Casing: 7" csg set @ 3158', cemented with 200 sx.

Production Casing: 5" csg set @ 3864', cemented with 500 sx.

Total Depth: 3864'

Completion: Completed in the Grayburg San Andres as a producer

from OH 3139-3744'. Deepened, ran 5" csg and converted to injection through perforations 3260-3330',

3550-3633' and 3676-3830' (CIBP set @ 3660'.)

VI. Wells in Area of Review:

Operator: Hondo Oil & Gas Company

Well Name: H.E. West "B" #30

Location: 1980' FSL & 1980' FWL, (K) Section 9, T17S, R31E

Completion Date: 2/66

Surface Casing: 8 5/8" set @ 551', cemented with 300 sx.

Production Casing: 4 1/2" set @ 3952', cemented with 470 sx.

Total Depth: 3952'

Completion: Completed in the Grayburg San Andres as an injector

through perforations 3835-3879' (CIBP set @ 3810')

and 3394-3472'. Added new perforations from 3579-3760'

and 3247-3560'.

Operator: Ray Westall

Well Name: Kersey State #2

Location: 330' FNL & 1650' FWL, Section 16, T17S, R31E

Completion Date:

Surface Casing:

Production Casing:

Total Depth:

Completion: To our knowledge this well has not been drilled.

VI. Wells in Area of Review:

Operator: Ray Westall

Well Name: Kersey State #1

Location: 660' FNL & 1980' FEL, (B) Section 16, T17S, R31E

Completion Date: 5/38

Surface Casing: 8 1/4" csg set @ 635', cemented with 50 sx.

Intermediate Casing: 7" csg set @ 3138', cemented with 100 sx.

Production Casing: 4 1/2" csg set @ 3780', cemented with 300 sx.

Total Depth: 3780'

Completion: Completed in the San Andres as a producer from the

OH interval 3600-3678'. Plugged back to 2435' and recompleted in the Seven Rivers from perforations 2232-2270'. Redeepened, ran 4 1/2" casing and recompleted to the San Andres through perforations

3453-3749'

Operator: W-K Royalty

Well Name: State B #3

Location: NE/4 of NW/4, Section 16, T17S, R31E

Spud Date: 4-22-39

Completion Date: 6-24-39

Surface Casing: 8 5/8", 28#, cemented with 50 sx.

Production Casing: 7", 26#, cemented with 100 sx.

Total Depth: 3805'

Completion: Well was completed as a dry hole and P&A'd in

June, 1939.

VI. Wells in Area of Review:

Operator: Kersey & Company

Well Name: State WK #1

Location: SW/4 of NE/4, (G) Section 16, T17S, R31E

Completion Date: 10/37

Surface Casing: 8 1/2" csg set @ 568', cemented with 50 sx.

Production Casing: 7" csg set @ 3125', cemented with 100 sx.

Total Depth: 3878'

Completion: Completed in the San Andres as a producer from the

OH interval 3620-3630'.

Operator: Anadarko Production Company

Well Name: State AE #1

Location: 990' FNL & 990' FEL, (A) Section 16, T17S, R31E

Completion Date: 3/82

Surface Casing: 8 5/8" set @ 682', cemented with 500 sx.

Production Casing: 5 1/2" set 2 3600', cemented with 700 sx.

Total Depth: 3655'

Completion: Completed in the Grayburg as a producer from perfor-

ations 3409-3439' and 3319-3382'. Added San Andres

perforations from 3574-3588' adn 3487-3503'.

VII. Proposed Operations Data:

- (1) Average daily injection rate 150 BWPD Maximum daily injection rate - 200 BWPD
- (2) Type of system closed
- (3) Average injection pressure 1900 psi Maximum injection pressure - 2200 psi
- (4) Source of injection water water produced from the Keel West plus make-up water from the Keel West fresh water system.

VIII. Geological Data:

The proposed injection zone is in the Grayburg San Andres from 3239-3676 and the OH interval 3731-3856'. The Grayburg formation consists primarily of quartz sand with cementation. The San Andres formation consists primarily of dolomite with intermingled stringers of quartz sand with dolomite cementation.

Surface formation is cretaceous and has no known source of drinking water. Also, there are no known underground sources of drinking water overlying or underlying the proposed injection zone.

IX. Stimulation Program:

Acidized OH from 3733-3835' with 4000 gal 20% CRA acid. Acidized 3483-3676' with 4000 gal 15% NeFe acid and frac'd with 25,000 gal Minimax-30 + 40,000# 20-40 sand. Acidized 3239-3434' with 4000 gal 15% NeFe acid and frac'd with 25,000 gal 30# cross-linked gel + 40,000# 20-40 sand.

X. Well Logs:

Copies of the current well logs are attached.

XI. Chemical Analysis of Fresh Water:

There are no known producing fresh water wells within one mile of the proposed injection well.

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 OWNER:

Federal land.

OFFSET OPERATOR:

Anadarko Production Company P.O. Drawer 130 Artesia, NM 88210 Morexco, Inc. P.O. Box 481 Artesia, NM 88210

Trinity University & Closuit 777 Taylor Street P-I Suite B Ft. Worth, TX 76102 Ray Westall P.O. Box 4 Loco Hills, NM 88255

Affidavit of Publication

No. 12844

STATE OF NEW MEXICO, County of Eddy:

Gary D. Scott being duly				
sworn, says: That he is thePublisherof The				
Artesia Daily Press, a daily newspaper of general circulation,				
published in English at Artesia, said county and state, and that				
the hereto attachedLegal Notice				
was published in a regular and entire issue of the said Artesia				
Daily Press, a daily newspaper duly qualified for that purpose				
within the meaning of Chapter 167 of the 1937 Session Laws of				
days the State of New Mexico for1 consecutive weeks on				
the same day as follows:				
First Publication July 16, 1989				
Second Publication				
Third Publication				
Fourth Publication				
and that payment therefore in the amount of \$				
has been made				
Jan Man				
Subscribed and sworn to before me this 19th day				
ofJuly, 19_89				
Darlow am Boans				

My Commission expires September 23, 1991

Copy of Publication

18951

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LEGAL NOTICE y County, New Mexico water injection water injection water from the Keal West plus make up water from the Keel West fresh water system will be injected into the Grayburg San Andres formation from 3239-36765. The maximum daily injection rate will be 200 BWPD with a maximum pressure of 2200 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. Ron Brown Petroleum Engineer Hondo Oil & Gas Company P.O. Box 2208 Roswell, New Mexico \$5502 (505) 625-8760 Published in the Artesia Daily Press, Artesia, N.M. July 16, 1989. Legal 12844

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1	CAPITAL	ł.	DATE
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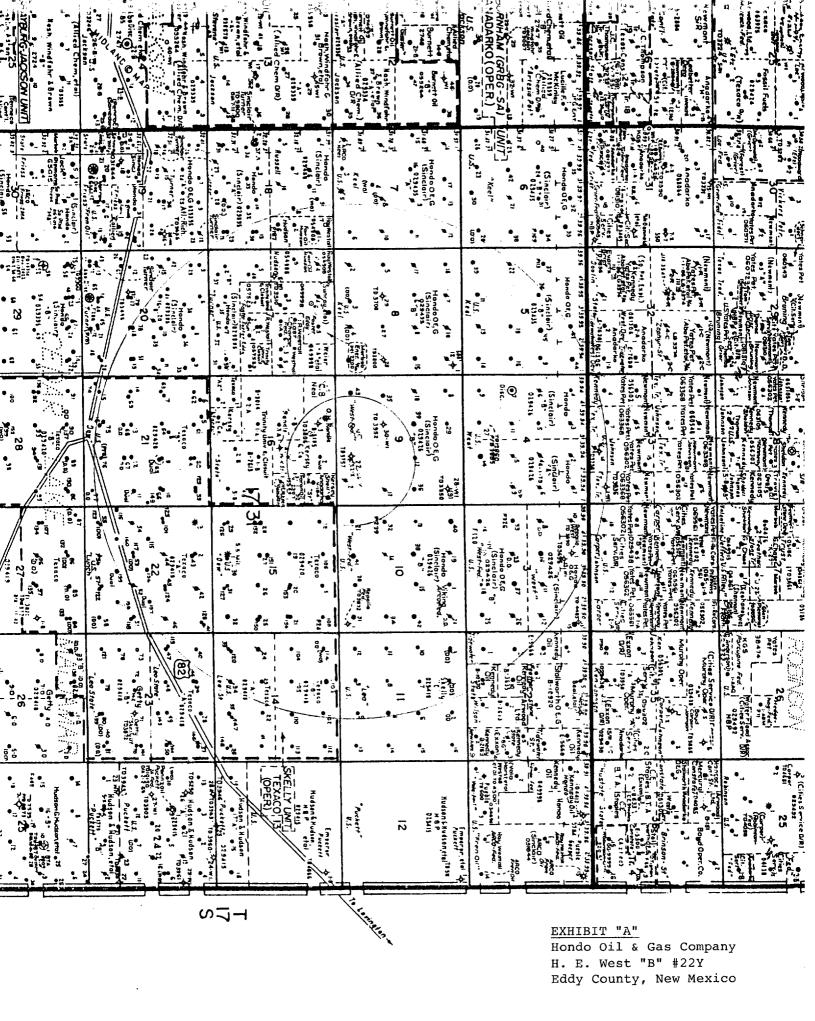
SENDER: Complete Items 1 and 2 when additional and 4.	
Put your address in the "RETURN TO" Space on the rev card from being returned to you. The return receipt fer	Will provide you the name of the nerson
delivered to and the date of delivery. For additional fees postmaster for fees and check box(es) for additional servic 1. Show to whom delivered, date, and addressee's addres	e(s) requested.
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3. Article Addressed to:	4. Article Number
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DO Box 4	Type of Service: Registered Insured
	Certified COD
Loco Hills, NM	Li Express Meil
88255	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee	8. Addressee's Address (ONLY if requested and fee paid)
X 6. Signature — Agent	- requested and fee paids
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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 recard from being returned to you. The return receipt fe	verse side, hallure to do this will prevent this e will provide you the name of the person
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3. Article Addressed to:	4. Article Number
Trinity University & Closus	P663 39 1 669
Trinity University & Closuit 777 Taylor Street	Type of Service: Registered Insured
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P-L Swite B	☐ Express Mail
Ft. Worth, TX 76102	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
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X	requested and fee paid)
6. Signature — Agent X	
7. Date of Delivery	
7. Date of Delivery	
PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-26	B DOMESTIC RETURN RECEIP
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Morexco, Inc.	Type of Service:
P.O. Box 481	Registered Insured Certified COD
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Artesia, NM 88210	Always obtain signature of addressee
	or agent and DATE DELIVERED.
5. Signature - Addressee	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature – Agent	-
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SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3				
Put your address in the "RETURN TO" Space on the recard from being returned to you. The return receipt fe	e will provide you the name of the person			
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3. Article Addressed to: Anadarko Prod. Co. P.O. Drawer 130	4. Article Number P 663 397 661 Type of Service: Registered Insured Certified COD			
Artesia, N. M. 88210	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				
7. Date of Delivery PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-26	B DOMESTIC RETURN RECEIPT			
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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. A Show to whom delivered, date, and addressee's address. 2. Bestricted Delivery				
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NMOCD	P 663 397 658			
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Artesia, NM 88210	Always obtain signature of addressee or agent and DATE DELIVERED.			
5. Signature – Addressee X	8. Addressee's Address (ONLY if requested and fee paid)			
5. Signature — Agent X				
7. Date of Delivery				
PS Form 3811, Mar. 1987	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 potgresser for fees and check box(es) for additional service(s) requested.				
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3. Article Addressed to: Oil Conservation Divisio	4. Article Number P 663 397 659 Type of Service:			
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- 1 14 m 9 1501	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .			
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6. Signature Agent X				
7. Date of Delivery				

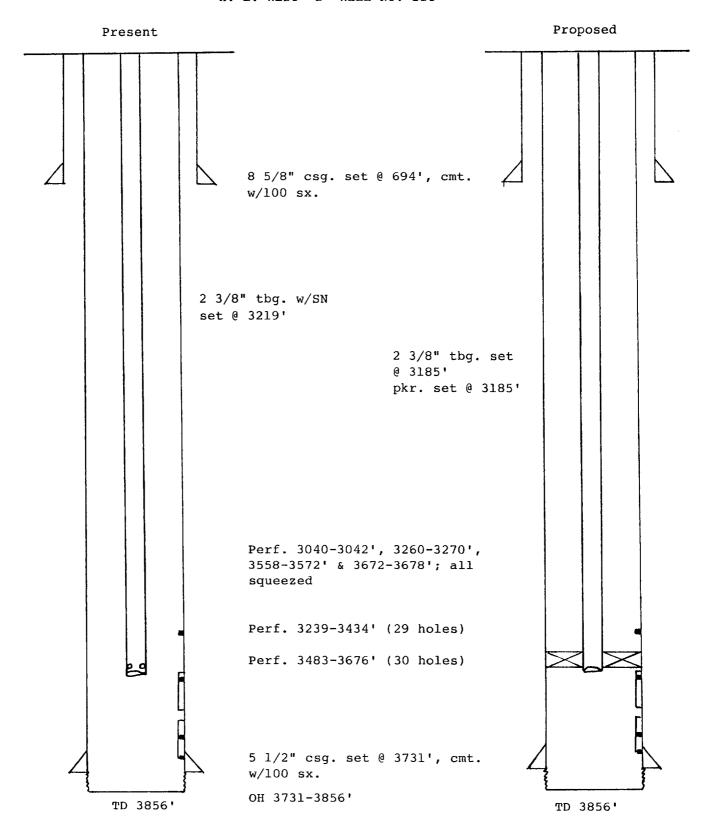
SENDER: Complete Items 1 and 2 when additional services are desired, and complete Items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postpaster for fees and check box(es) for additional service(s) requested. 1. O Show to whom delivered, date, and addressee's address. 2. D Restricted Delivery †(Extra charge)†				
3. Article Addressed to: Bureau of Land Manage-	4. Article Number P 663 397 660			
P.O. Box 1778	Type of Service: Registered Insured Certified COD Express Mall			
Carlsbad, NM 88220	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .			
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

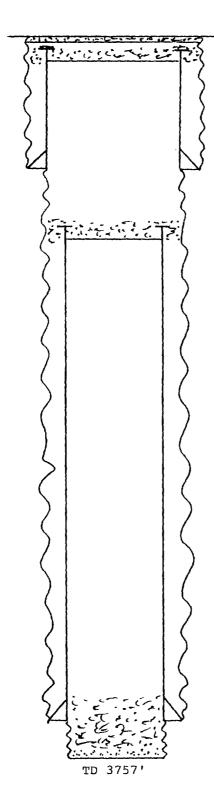
DOMESTIC RETURN RECEIPT



H. E. WEST "B" WELL NO. 22Y



HONDO OIL & GAS COMPANY
H. E. WEST "B" WELL NO. 2
330' FSL & 990' FEL
Section 9, T-17S, R-31E
Eddy County, New Mexico



9" csg. set @ 695', cmt. w/50 sx.

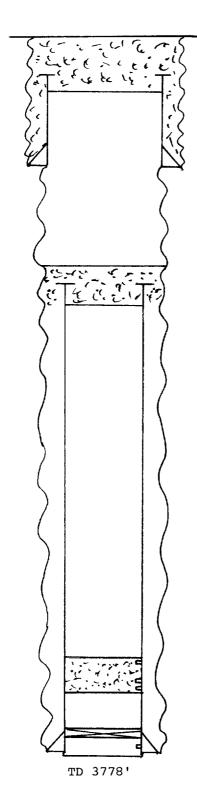
P&A'd as follows:

- (1) filled hole w/heavy mud & cmt. bottom of hole w/50 sx.
- (2) shot 7" csg. @ 980' and pulled
- (3) set 15 sx. cmt. plug in top of 7" csg. stub
- (4) shot 9" csg. @ 81' and pulled
- (5) set 15 sx. cmt. plug in top of 9" csg. stub
- (6) set 10 sx. cmt. plug in bottom of cellar

Plugged back to 3727' as follows: 3757-3739' filled 12' w/gravel & 6' w/lead wool 3739-3727' filled 12' w/lead wool

7" csg. set @ 3750', cmt. w/100 sx.

KERSEY & COMPANY SHELL # 1 330' FNL & 330' FEL Section 16, T-17S, R-31E Eddy County, New Mexico



8 5/8" csg. set @ 677', cmt. w/50 sx.

Plugged well as follows:

- (1) 20 sx. plug covering perfs. @ 3288-3428'
- (2) cut 4 1/2" csg. @ 1300' and pulled
- (3) 20 sx. plug in & out of 4 1/2" csg. stub
- (4) cut 8 5/8" csg. @ 200' and pulled
- (5) 20 sx. plug from base of 8 5/8" csg. and @ 8 5/8" csg. stub

Perf. 3288-3296', 3388-3396' and 3416-3428'

Hydromite plug set @ 3675'
Perf. 3726-3744'
4 1/2" csg. set @ 3775', cmt. w/325 sx.

W-K ROYALTY COMPANY
State "B" #3
NE of NW
Section 16, T-17S, R-31E
Eddy County, New Mexico

