Hondo Oil & Gas Company Box 2208 Roswell, New Mexico 88202 (505)625-8700





July 14, 1989

JUL 25 1989

OIL CONSERVATION DIV. SANTA FE

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

RE: Application for permit to convert to Water Injection H. E. West "B" Well No. 15 1980' FNL & 1980' FEL, Section 10, T-17S, R-31E 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,

15a Bohannen

Lisa Bohannon Engineering Technician

:lb

Encl.

Hondo Oil & Gas Company

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



July 14, 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. 15 1980' FNL & 1980' FEL, Section 10, T-17S, R-31E 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,

Bokannon

Lisa Bohannon Engineering Technician

:1b Encl.

Hondo Oil & Gas Company

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



July 14, 1989

Texaco Producing Co. P. O. Box 3109 Midland, Texas 79702

RE: Application for permit to convert to Water Injection H. E. West "B" Well No. 15 1980' FNL & 1980' FEL, Section 10, T-17S, R-31E 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.

Sincerely,

Bohamon 15A

Lisa Bohannon Engineering Technician

:1b

Encl.

ENERC	STATE OF N.W. MEXICOL II I ALL IVAL IN DIVISION FRANCE OF CONSTRAINTS OF NEW MEXICO B2501				
APPLICA	ATION FOR AUTHORIZATION TO INJECT				
Ι.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyesno				
п.	Operator:Hondo Oil & Gas Company				
	Address: P. O. Box 2208, Roswell, NM 88202				
	Contact party: Ron Brown Phone: (505)625-6735				
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? X yes no If yes, give the Division order number authorizing the project $R-2268$				
۷.	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 pen etrate 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 avai≀able 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: Ron Brown				
	7/14/00				
* 16 **	signature: Date: Date: Date:				
submi	itted, it need not be duplicated and resubmitted. Please show the date and circumstance cerlier submittal. Current copies of well logs are attached.				

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

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HONDO OIL & GAS COMPANY APPLICATION FOR AUTHORITY TO INJECT SUPPLEMENTAL INFORMATION H. E. WEST "B" WELL NO. 15 EDDY COUNTY, NEW MEXICO

ITEM:

- III. Well Data
 - A. (1) <u>Well Name</u>: H. E. West "B" #15 1980' FNL & 1980' FEL Section 10, T-17S, R-31E Eddy County, New Mexico
 - (2) Casing Data: (Also see Exhibit "B".)

Surface Casing: 10 3/4" csg. set @ 780' in a 12 1/2" hole. Cemented with 200 sx. Calculated TOC to be 440'.

Production Casing: $5 \frac{1}{2}$ csg. set @ 3728' in an 8 $\frac{1}{4}$ hole. Cemented with 100 sx. TOC @ 3290' (CBL).

(3) <u>Injection Tubing</u>:

2 3/8", 4.7#, 8rd EUE, plastic coated tubing, set @ ±3100'.

A 4 3/4" OH has been drilled from 3728-3952' and an 834' 4" liner has been run with the top of the liner @ 3119'. The liner was set with 50 sx. cement.

(4) <u>Packer</u>:

Packer set @ ±3100'.

B. (1) Injection Formation:

The injection formation will be the Grayburg San Andres.

(2) <u>Injection Interval</u>:

The injection interval is to be from 3368-3916'.

(3) Original Purpose of Well:

This well was originally drilled, completed and tested in the Grayburg San Andres as a producer through perforations 3515-3540' and 3372-3378'.

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

This well was perforated from 3799-3916', 3392-3752' and 3368-3378' for conversion to an injector.

(5) <u>Higher/Lower Oil Zones</u>:

The top of the Seven Rivers is (22300') 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" #18 Location: 660' FSL & 1980' FEL, (N) Section 3, T-17S, R-31E Completion Date: 12/58 Surface Casing: 10 3/4" set @ 797', cemented with 100 sx. Production Casing: 5 1/2" set @ 3725', cemented with 100 sx. Total Depth: 3996' Completion: Completed in the Grayburg San Andres as a producer from perforations 3393-3401', 3430-3435', 3443-3449 and 3456-3464', Added perforations from 3523-3527

from perforations 3393-3401', 3430-3435', 3443-3448', and 3456-3464'. Added perforations from 3523-3527', 3540-3548' and 3555-3560'. Deepened and converted to injection through existing perforations and new perforations from 3386-3705' and OH 3725-3994'.

Operator: Hondo Oil & Gas Company

Well Name: H. E. West "B" #42

Location: 2105' FNL & 660' FEL, (H) Section 10, T-17S, R-31E

Completion Date: 2/89

Surface Casing: 8 5/8" set @ 641', cemented with 400 sx.

Production Casing: 5 1/2" set @ 3985', cemented with 1250 sx.

Total Depth: 4004'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3398-3524', 3546-3599' and 3614-3791'.

Operator: Hondo Oil & Gas Company

Well Name: H. E. West "B" #24

Location: 660' FNL & 660' FEL, (A) Section 10, T-17S, R-31E

Completion Date: 1/60

Surface Casing: 8 5/8" set @ 815', cemented with 100 sx.

Production Casing: 5 1/2" set @ 3604', cemented with 100 sx.

Liner: 4" set from 3200-4008', cemented with 50 sx.

Total Depth: 4008'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3396-3402' and 3550-3560'. Converted to injection with the addition of perforations 3430-3438', 3448-3456' and 3462-3468'. Deepened, ran liner and will inject through new perforations.

Operator: Hondo Oil & Gas Company

Well Name: H. E. West "B" #13

Location: 1980' FNL & 660' FWL, (E) Section 10, T-17S, R-31E

Completion Date: 10/57

Surface Casing: 10 3/4" set @ 739', cemented with 100 sx.

Production Casing: 7" set @ 3525', cemented with 100 sx.

Liner: 5" set from 3094-3897', cemented with 150 sx.

Total Depth: 3900'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3318-3326' and 3356-3374'. Deepened and converted to injection through perforations 3737-3864' (CIBP set @ 3720'), 3568-3696' and 3312-3519'.

Operator: Hondo Oil & Gas Company

Well Name: H. E. West "B" #14

Location: 1980' FSL & 1980' FWL, (K) Section 10, T-17S, R-31E

Completion Date: 1/58

Surface Casing: 8 5/8" set @ 762', cemented with 100 sx.

Production Casing: 7" set @ 3563', cemented with 100 sx.

Liner: 5" set from 3300-3953', cemented with 150 sx.

Total Depth: 3953'

- <u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3380-3396'. Converted to injection with the addition of perforations from 3343-3351', 3496-3500', 3505-3513' and 3526-3537' and the OH interval 3563-3632'. Deepened, ran liner and will inject through new perforations.
- Operator: Hondo Oil & Gas Company
- Well Name: H. E. West "B" #38
- Location: 2085' FNL & 1980' FWL, (F) Section 10, T-17S, R-31E
- Completion Date: 12/88

Surface Casing: 8 5/8" set @ 596', cemeted with 400 sx.

Production Casing: 5 1/2" set @ 3960', cemented with 1300 sx.

Total Depth: 3960'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3364-3562', 3587-3727' and 3757-3910'.

Operator: Hondo Oil & Gas Company

Well Name: H. E. West "B" #34

Location: 1980' FSL & 660' FEL, (I) Section 10, T-17S, R-31E

Completion Date: 10/88

Surface Casing: 8 5/8" set @ 629', cemented with 450 sx.

Production Casing: 5 1/2" set @ 3885', cemented with 1650 sx.

Total Depth: 3885'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3341-3583' and 3616-3802'. Converted to injection through existing perforations.

Operator: Hondo Oil & Gas Company

Well Name: H. E. West "B" #19

Location: 660' FNL & 1980' FWL, (C) Section 10, T-17S, R-31E

Completion Date: 1/59

Surface Casing: 10 3/4" set @ 785', cemented with 100 sx.

Production Casing: 5 1/2" set @ 3501', cemented with 100 sx.

Liner: 4" set from 3300-3998', cemented with 50 sx.

Total Depth: 3998'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3422-3430'. Converted to injection with the addition of perforations from 3438-3441' and 3378-3389' and the OH interval 3501-3585'. Converted to single WIW by setting a BP @ 3466'. Deepened, ran liner and will inject through new perforations.

Operator: Hondo Oil & Gas Company

Well Name: H. E. West "B" #20

Location: 660' FSL & 1980' FEL, (0) Section 10, T-17S, R-31E

Completion Date: 2/59

Surface Casing: 10 3/4" set @ 797', cemented with 100 sx.

Production Casing: 5 1/2" set @ 3635', cemented with 100 sx.

Liner: 4" set from 3177-3966', cemented with 50 sx.

Total Depth: 3971'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3398-3410', 3542-3556' and 3603-3611'. Added perforations from 3359-3364'. Deepened and converted to injection through perforations 3858-3937', 3677-3839' and 3353-3634'.

Operator: Texaco Producing Co.

Well Name: Lea "C" #10

Location: 1980' FNL & 660' FWL, (E) Section 11, T-17S, R-31E

Completion Date: 8/72

Surface Casing: 8 5/8" set @ 620', cemented with 350 sx.

Production Casing: 5 1/2" set @ 3939', cemented with 1600 sx.

Total Depth: 3940'

<u>Completion</u>: Completed in the Grayburg San Andres as a producer from perforations 3385-3883'.

Operator: Viking Energy Corporation

Well Name: ARCO Federal #1

Location: 660' FNL & 1980' FEL, (B) Section 10, T-17S, R-31E

Completion Date: 11/78

Surface Casing: 8 5/8" set @ 850', cemented with 400 sx.

Production Casing: 4 1/2" set @ 5515', cemented with 850 sx.

Total Depth: 5515'

<u>Completion</u>: Tested first in the Paddock through perforations 5314-5426' and then plugged back to 4300'. Next, tested the Lovington Sand through perforations 3710-3718' and then plugged back to 3680'. Completed as a producer from the Grayburg San Andres perfs. 3402-3443' and 3538-3576'. P&A'd well 1/79.

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 3368-3916'. 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 3799-3916' with 2000 gal. 15% NEFE acid and 4000 gal. 20% CRA acid. Acidized 3392-3752' with 6000 gal. 15% NEFE acid and frac'd with 50,000 gal. cross-linked gel + 90,000# 20-40 sand. Acidized 3368-3378' with 4000 gal. 15% NEFE acid.

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 ONWER:

Federal land

OFFSET OPERATOR:

Texaco Producing Co. P. O. Box 3109 Midland, TX 79702

Affidavit of Publication

No. 12841

STATE OF NEW MEXICO, County of Eddy:

Gary D. Scott being duly sworn, says: That he is the <u>Publisher</u> of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached ... Legal 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 davs 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 of ______ July____, 19.89 Doan <u>a</u> Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1991

Copy of Publication

104210

LEGAL NOTICE

Hondo Ol & Gas Company has applied for authority to convert the H. E. West "B" Well No. 15, located 1880' FNL & 1980' FEL, Section 10, T-17S; R-31E, Eddy Comty, New Mexico, into a water injection well. Water produced from the Keel West plus make-up water from the Keel West fresh water system will be injected into the Grayburg San Andres formation from 3368-3916'. The maximum daily injection rate will be 200 BWPD with a maximum pres-sure of 2200 pst. 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 88202 (505) 625-8760 Published in the Artesia Daily Press, Artesia, N.M. July 16. 1989.

Legal 12841

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EXHIBIT "B" Hondo Oil & Gas Company H. E. West "B" Well No. 15 Eddy County, New Mexico

H. E. WEST "B" WELL NO. 15



VIKING ENERGY CORPORATION ARCO-FEDERAL #1 660' FNL & 1980' FEL Section 10, T-17S, R-31E Eddy County, New Mexico

