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Hondo Oil & Gas Company

Box 2208 Roswel: New Mexico 88202 (505)625-8700



September 14, 1987

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

RE: Application for permit to convert to Salt Water Disposal B. C. Dickinson "B" Well No. 5 330' FSL & 330' FWL, Section 13', T-15S, R-37E Lea County, New Mexico

Gentlemen:

Please find enclosed Hondo Oil and 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 us.

Very truly yours,

Layne & Collis

Layne E. Collis Engineering Secretary

:lc

Enclosure

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



September 14, 1987

TO: Offset Operators

RE: Application for permit to convert to Salt Water Disposal B. C. Dickinson "B" Well No. 5 330' FSL & 330' FWL Section 12, T-15S, R-37E 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 concerning this matter please contact us.

Very truly yours,

Layne & Collis

Layne E. Collis Engineering Secretary

:lc

Enclosure

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	UIL CUNSERVATION DIVISION POST OFFICE BOX 2008 BTATE LAND OFFICE BUILDING EANTA FE, NEW MEXICO 8/201	FORM C-108 Revised 7-1-81

APPLIC	ATION FOR AUTHORIZATION TO INJECT
Ι.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? yes no
11.	Operator: Hondo Oil and Gas Company
	Address:P. O. Box 2208, Roswell, New Mexico 88201
	Contact party:
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.
18.	Is this an expansion of an existing project? I yes no Denton SWD #1 - SWD-5 If yes, give the Division order number authorizing the project <u>Denton SWD #2 - SWD-2</u> 4
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 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.
Χ.	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 Jocation 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.Z. Bittiss fr	Date: <u>9/14/87</u>

* 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. 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:
 - 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 well; 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 Dil 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.

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. HONDO OIL AND GAS COMPANY APPLICATION FOR AUTHORITY TO INJECT SUPPLEMENTAL INFORMATION B. C. DICKINSON "B" WELL NO. 5 LEA COUNTY, NEW MEXICO

ITEM:

- III. Well Data
 - A. (1) <u>Well Name</u>: B. C. Dickinson "B" #5 330' FSL & 330' FWL Section 12, T-15S, R-37E Lea County, New Mexico
 - (2) Casing Data: (Also see Exhibit "B")

Surface Casing: 13 3/8" csg set @ 406' in 17 1/2" hole. Cemented w/400 sxs. Circulated cmt to surface.

Intermediate Casing: 9 5/8" csg set @ 4784' in 12 1/4" hole. Cemented w/3000 sxs. Calculated TOC to be @ surface.

Production Casing: 7" liner set from 4573'-9427'in 8 3/4" hole. Cemented w/225 sxs cmt. Calculated TOC to be @ (7660'.

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

4 1/2", 11.6#, K-55, ST&C Plastic Coated tbg, set @ approximately <u>+</u> 9350'.

We also plan to drill a 6" OH from 9427'-10,100' w/4" slotted fiberglass liner @ 9375'-10,100'.

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

Baker Model AL-2 Lok-Set, set @ 9350'.

- B. (1) <u>Injection Formation</u>: Pennsylvania
 - (2) <u>Injection Interval</u>:

Injection will be open hole 9427-10,100'.

(3) Original Purpose of Well:

This well was drilled, completed and tested thru Wolfcamp perforations (9220'-9300'). Well was plugged and abandoned 11-14-70.

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

Plans are to squeeze the abandoned Wolfcamp perforations @ 9220'-9300' with 100 sxs of cement.

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

The top of the Wolfcamp is $@ \pm 9000'$ and the Devonian is $@ \pm 11,800'$.

V. Map: See Exhibit A.

VI. Wells in Area of Review:

Operator: Marathon Oil Company

Well Name: J. M. Denton Well No. 7

Location: 1980' FSL & 990' FEL, (I) Section 11, T15S, R37E

Spud Date: December 28, 1951.

Surface Casing: 13 3/8" set @ 369', cemented with 350 sxs.

Intermediate Casing: 9 5/8" set @ 4747', cemented with 1800 sxs.

Production Casing: 5 1/2" set @ 12,700', cemented with 1936 of all and a sxs.

<u>Completion</u>: Completed in the Devonian from 12,547'-12,607'. Recompleted to 11,972'-12,067'. Squeezed and reperforated at 12,145'-12,240'.

Operator: Dinero Operating Company

Well Name: Denton Well No. 1

Location: 990' FSL & 1980' FEL, (0) Sec. 11, T15S, R37E

Spud Date: March 26, 1977.

Surface Casing: 13 3/8" set @ 381', cemented with 400 sxs.

Intermediate Casing: 8 5/8" set @ 4685', cemented with 1450 sxs.

Production Casing: 5 1/2" set at 12,212', cemented with 450 sxs.

<u>Completion</u>: Originally completed in the Devonian from 11,700'-11,715'. Plugged back to 11,685' and perforated from 11,608'-11,634'.

Operator: McAlester Fuel Company

Well Name: Denton "A" Well No. 1

Location: 660' FSL & 1980' FEL, (0) Sec. 11, T15S, R37E

Spud Date: March 14, 1949.

Surface Casing: 13 3/8" set @ 350', cemented with 500 sxs.

Intermediate Casing: 9 5/8" set @ 4655', cemented with 1500 sxs.

<u>Production Casing</u>: 5 1/2" set @ 11,465', cemented with 1100 sxs.

<u>Completion</u>: Originally completed in the Devonian from 11,325'-11,464'. Plugged back to 9536' and perforated Wolfcamp from 9490'-9530'. P&A in 1966 (see attached schematic).

Operator: Marathon Oil Company

Well Name: J. M. Denton Well No. 6

Location: 660' FSL & 990' FEL, (P) Section 11, T15S, R37E

Spud Date: December 27, 1951

Surface Casing: 13 3/8" set @ 369', cement with 350 sxs.

Intermediate Casing: 9 5/8" set @ 4773', cement with 1800 sxs.

Production Casing: 5 1/2" set @ 12,700', cement with 1936 sxs.

<u>Completion</u>: Completed in Devonian from 12,534'-12,660'. Added perfs from 12,420'-12,515'. Plugged back to 12,410' and added perfs @ 12,020'-12,130'.

ok

Operator: Hondo Oil and Gas Company

Well Name: B. C. Dickinson Well No. 3

Stured: 200 11, 148 tool @ 11, 148 Location: 660' FSL & 330' FWL, (M) Section 12, T15S, R37E

Spud Date: April, 1952

Surface Casing: 13 3/8" set @ 336', cemented with 325 sxs,

Production Casing: 7" set @ 12612', cemented with 455 sxs. Completion: 2.1

<u>Completion</u>: Originally completed in the Devonian, open hole 12,612'-12,662'. Perforated @ 11,018'-11,046'. Plug back to the San Andres, perforated from 6076'-6096'. Test San Andres no shows. Well P&A 3/30/67.

Operator: Chevron Oil Company

Well Name: L. R. Chamberlin Well No. 1

Location: 660' FNL & 1980' FEL, (B) Section 14, T15S, R37E

Spud Date: October 13, 1949.

Surface Casing: 13 3/8" set @ 328', cemented with 350 sxs.

Intermediate Casing: 7 5/8" set @ 4715', cemented with 2000 sxs.

7" liner set @ 11,501', cemented with Production Casing: 525 sxs.

Completion: Completed in Devonian from 11,501'-11,513'.

Operator: Lynx Petroleum Consultants

Well Name: Pat H. McClure "C" Well No. 1

Location: 330' FNL & 990' FEL, (A) Section 14, T15S, R37E

Spud Date: March 13, 1951

Surface Casing: 13 3/8" set @ 338', cemented with 400 sxs.

Intermediate Casing: 9 5/8" set @ 4740', cemented with 2078 sxs.

- Production Casing: 5 1/2" set @ 12,750', cemented with
 1000 sxs.
- <u>Completion</u>: Originally completed in the Devonian from 12,650'-12,737'. Plugged back to 9210'. Completed in the Wolfcamp from 9082'-9181'. Squeezed perfs, added perfs from 9147'-9181'.
- Operator: Marathon Oil Company
- Well Name: J. M. Denton Well No. 3
- Location: 1980' FSL & 1980' FEL, (J) Section 11, T15S, R37E
- Spud Date: August 25, 1950

Surface Casing: 13 3/8" set @ 371', cemented with 350 sxs.

Intermediate Casing: 9 5/8" set @ 4749', cemented with 2000 sxs.

- Production Casing: 5 1/2" set @ 12,117', cemented with 1807 sxs.
- <u>Completion</u>: Completed in the Devonian from 11,916'-12,044'.

Operator: Hondo Oil and Gas Company

Well_Name: Denton SWD Well No. 1

Location: 660' FWL & 660' FNL, (D) Sec. 13, T15S, R37E

Spud Date: April 18, 1951

Surface Casing: 13 3/8" set @ 347', cemented w/600 sxs.

<u>Intermediate Casing</u>: 9 5/8" set @ 5000', cemented with 300 sxs.

Production Casing: 7" set @ 11,304', cemented with 500 sxs.

<u>Completion</u>: Salt Water Disposal into the Pennsylvania formation from 9950'-10,100'.

- VII. Proposed Operations Data:
 - Average Daily Injection Rate 15,000 BWPD. Maximum Daily Injection Rate - 30,000 BWPD.
 - (2) Type of System Closed.
 - (3) Average Injection Pressure 500 psi. Maximum Injection Pressure - 700 psi.
 - (4) Source of Injection Water Devonian and Wolfcamp formation water will be injected into the well. See Exhibit C for water analysis.
 - (5) Chemical Analysis of Disposal Zone Formation. Not Available.
- VIII. Geological Data:

The injection zone is the Pennsylvania formation open hole from 9427'-10,100'. The formation consists primarily of dolomite and limestone with small amounts of shale.

IX. Proposed Stimulation Program:

Will treat w/6,000 gals 15% acid in stages using 1000# of rock salt.

X. Well Logs:

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

- XI. Chemical Analysis of Fresh Water Not Available.
- 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.

LAND OWNER:

Dickinson Cattle Company P. O, Box 3804 Amarillo, Texas 79106

OFFSET OPERATORS:

North American Royalty 1400 Claydesta Ctr. 306 W. Wall Midland, Texas 79701

Marathon Oil Company P. O. Box 552 Midland, Texas 79702

Chevron U.S.A., Inc. P. O. Box 670 Hobbs, New Mexico 88240

Union Texas 4000 N. Big Spring Suite 500 Midland, Texas 79705

Lynx Petroleum P. O. Box 1666 Hobbs, New Mexico 88240

Phillips Petroleum 4001 Penbrook Odessa, Texas 79762

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I,_

Mark C. Keeling

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

<u>September 4</u>, 19<u>87</u> and ending with the issue dated

September 4 , 19<u>87</u> lin Business Manager

Sworn and subscribed to before

me this day of Notary Public.

My Commission expires_

(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 September 4, 1987 34 NOTICE

Hondo Oil and Gas Hondo OII and Gas Company has applied for authority to convert the B.C. Dickinson "B" Well No. 5, located 330' FSL & 330' FWL, Section 12, T-155, R-37E, Lea County, New Mexico, into a salt water disposal well. Water produced from the Devoproduced from the Devonian and Wolfcamp formations will be disposed for mations will be disposed into the Pennsylvania f or mation from 9427-10,100°. The max-imum daily injection rates will be 30,000 BWPD with a maximum pressure of 700 rel 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. Buttross, Jr. Petroleum Engineer Hondo Oil and Gas Co. (505)625-8760

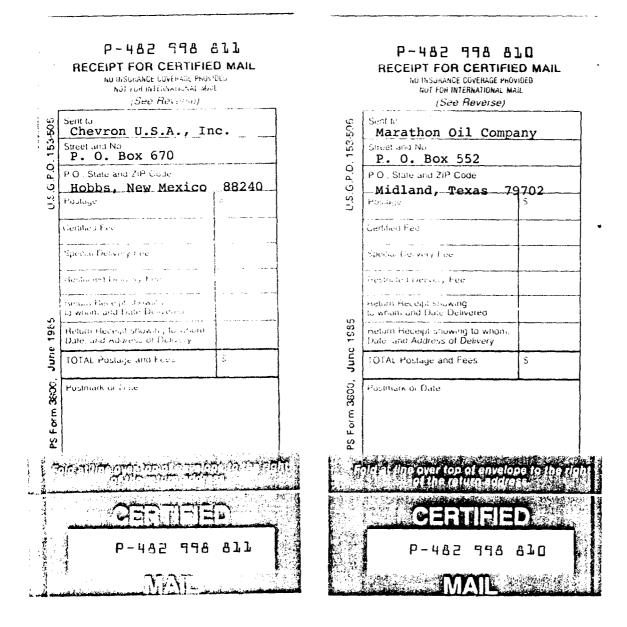
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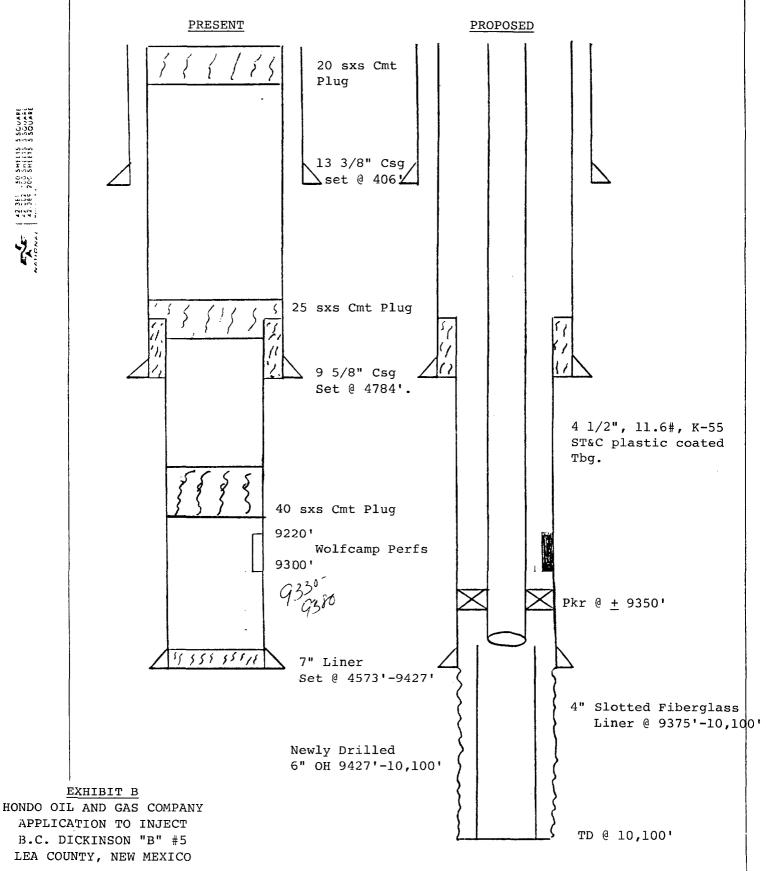
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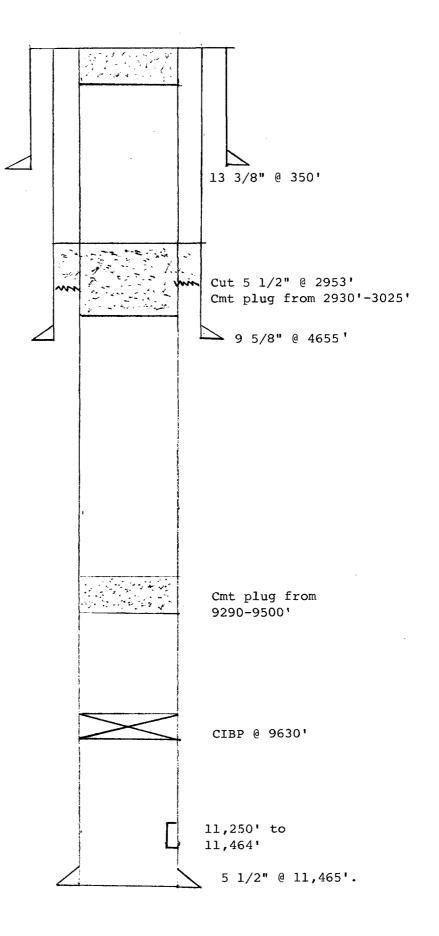
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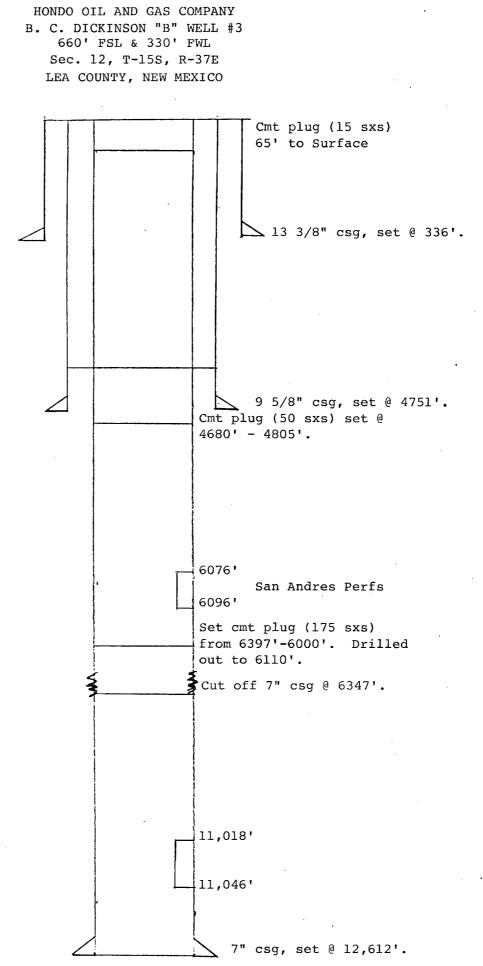
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DICKINSON "B" #5



DENTON "A" WELL NO. 1 660' FSL & 1980' FEL, Sec. 11, T-15S, R-37E LEA COUNTY, NEW MEXICO





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HALLIBURTON BERVICES MIDLAND DIVISION HOBIS, NEW MEXICO 86240

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To Marathon

LABORATORY WATER ANALYSIS

No.___093

Date____4-29-87

		This report is the property of Halilburton Company and n it nor any part thereof nor a copy thereof is to be pub or disclosed without first securing the express written ap of laboratory management; it may however, be used i course of regular business operations by any person of co and employees thereof receiving such report from Halili Company.	Hisher prova In the prover
Submitted by		Date Rec	و خد در در ا
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	Wolfcamp	Devonian	
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Specific Gravity	1.055	1.050	
рН	6.6	6.4	
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Analyst:			
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EXHIBIT C NDO OIL AND GAS COMPANY APPLICATION TO INJECT B.C. DICKINSON "B" #5 EA COUNTY, NEW MEXICO	ie described sample ti Dr damage, whether it	CHEMIST NOTICE ESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.	

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GARREY CARRUTHERS	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE 7-87 SEP 241037	POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161
OIL CONSERVATIO P. O. BOX 2088 SANTA FE, NEW RE: Proposed: MC DHC NSL NSP SWD WFX PMX	ON DIVISION	

Gentlemen:

I have examined the application for the:

Hondo Oil & Has Co. B. C. Dickinson B Operator Lease & Well No. Unit Sm 12-15-37

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and my recommendations are as follows:

Yours very truly,

Jerry Sexton Supervisor, District 1

/ed