



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

May 17, 1994

Mobil Exploration & Producing U.S. Inc.
Houston Division
12450 Greenspoint Drive
Houston, Texas 77060-1991

Attention: Kristi L. Soderman

Re: Amendment of Division Order No. SWD-355

Dear Ms. Soderman:

Reference is made to your request dated April 7, 1994, to amend Division Order No. SWD-355, which order authorized Mobil to utilize its Lindrith "B" Unit Well No. 25, located in Unit O of Section 9, Township 24 North, Range 3 West, NMPM, Rio Arriba County, New Mexico, to inject for disposal purposes into the Dakota "E" formation from 7,570 feet to 7,594 feet. It is our understanding that you are seeking to amend the injection interval in the subject well to 3,600 feet to 4,200 feet, said interval encompassing the Lewis Shale and Chacra formations.

Upon examination of the application, it appears that the well qualifies for such amendment. Mobil is therefore authorized to inject into the Lewis Shale and Chacra formations in the Lindrith "B" Unit Well No. 25 from a depth of approximately 3,600 feet to 4,200 feet subject to the following conditions:

- a) Mobil shall plug back the Lindrith "B" Unit Well No. 25 from the Dakota "E" formation to the Chacra formation in a manner acceptable to the supervisor of the Division's Aztec District Office;
- b) Mobil shall conduct a CBL on the Lindrith "B" Unit Well No. 25 in order to assure that the well has sufficient cement to confine the injected fluid to the proposed injection interval;
- c) Mobil shall conduct a production test on the Chacra Sand interval in order to ascertain whether hydrocarbons are present and producible from said interval;
- d) Injection shall occur through 2 3/8 inch plastic-

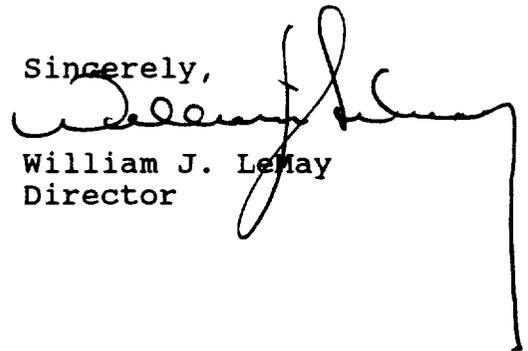
lined tubing installed in a packer set at approximately 3,550 feet; Injection pressure at the surface shall not exceed 720 psi;

e) The casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing;

f) The applicant shall notify the supervisor of the Division's Aztec District Office of the date and time of conductance of plug back operations, testing operations, CBL operations, installation of injection equipment, and mechanical integrity testing on the subject well in order that these operations may be witnessed.

All other provisions contained within Division Order No. SWD-355 not in conflict with the above shall remain in full force and effect.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', is written over the typed name. The signature is fluid and cursive, with a long vertical line extending downwards from the end of the name.

William J. LeMay
Director

xc: OCD-Aztec
File-SWD-355

Mobil Exploration & Producing U.S. Inc.

April 7, 1994

HOUSTON DIVISION
12450 GREENSPPOINT DRIVE
HOUSTON, TEXAS 77060-1991

State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
Mr. David Catanach
310 Old Sante Fe Trail
Santa Fe, New Mexico 87504

Amendment of Disposal Permit
Lindrith "B" Unit Well No. 25
Rio Arriba County, New Mexico

Dear Mr Catanach:

This letter is a follow-up to a conversation held today between David Howell, Mobil Staff Operation Engineer and Charles Gholson of the Aztec District Office regarding the Lindrith B-25 water disposal well modification application.

Mobil plans to adequately plug back the well to +/- 4250 and isolate the proposed disposal zone according to New Mexico regulations using standard methodology. In my cover letter for the permit modification application dated April 7, 1994, it may be unclear that Mobil intends to plug back the well to isolate the proposed disposal interval, NOT temporarily abandon the currently permitted deeper disposal zone.

We also plan to insure there is adequate cement above the proposed disposal zone. An existing temperature survey shows cement up to approximately 50 feet below surface. We plan to run a cement bond log from base surface casing to 3600 feet to insure protection of productive zones and water supply zones above the injection interval. As stated in previous correspondence, a packer will be set immediately above the top of the injection interval.

If you have any questions regarding our proposed plans to modify the Lindrith B-25 (Order no SWD-355) disposal well, please feel free to call David Howell at (915) 688-2525 or me at (713) 775-2291.

Sincerely,

Kristi L. Soderman
Kristi L. Soderman
Sr. Environmental Engineer

There is some Chacra products

cc: Aztec District Office
1000 Rio Brazos Road
Aztec NM 87410

DW-5361

4700-Top Mesavada

TEST CHACRA

CBL through Mesavada from DU Tool CP Hole : or Top of Mesavada

Mobil Exploration & Producing U.S. Inc.

April 7, 1994

HOUSTON DIVISION
12450 GREENSPPOINT DRIVE
HOUSTON, TEXAS 77060-1991

New Mexico Oil Conservation Division
Oil Conservation Division
P. O. Box 2088
310 Old Santa Fe Tr., Rm. 206
Santa Fe, NM 87501

Attn: Mr. William J. LeMay
Director

AMENDMENT OF DISPOSAL PERMIT
ORDER NO. SWD-355
LINDRITH "B" UNIT WELL NO. 25
RIO ARRIBA COUNTY, NM

*Injection into
Go Plains?*

Dear Mr. LeMay:

Attached is Mobil's application to amend Order No. SWD-355 for the Lindrith "B" Unit Well No. 25. The current permit was approved to dispose of salt water into the Dakota "E" Sandstone formation at approximately 7570-7594'. The most recent approval was granted July 19, 1990 and approved interval from approximately 7600-7660'. At that time the formation was redesignated as the Burro Canyon formation.

The Lindrith "B" Unit Well No. 25 has developed casing leaks at 3640', 3700', 3755', and 3938'. A CIBP has been set at 7535' (above injection perfs) and a retrievable packer is set at 3419'. The District 3 staff was immediately informed of the well problem and has been updated periodically.

After a thorough evaluation, we have determined that it may not be possible to squeeze the casing leaks. Other alternatives such as running a liner inside the 4 1/2" production casing or installing an evaporation pit are not feasible.

We respectfully request amendment of the disposal permit interval to allow injection into the Lewis, Chacra and Cliffhouse formations, 3600 - 4200 ft. The well will be plugged back with a CIBP set at +/- 4250' with a packer set immediately above the top of the injection interval.

Mobil

Mr. William J. LeMay

-2-

April 7, 1994

There are no offset operators within the 1/2 mile radius of the well. A copy of this amendment request has been sent, certified mail, to each working interest owner of the Lindrith "B" Unit. Attached is an address list of working interest owners and a copy of our request for public notice. Also attached is a waiver of notice from the surface owner, the Estate of Eulogia Candelaria.

If additional information is needed to process this amendment, please call Kristi Soderman at 713/775-2291 or Bobbie Brown, Environmental & Regulatory Technician II at 713/775-2099.

Sincerely,



Kristi L. Soderman
Sr. Environmental Engineer

Attachments

cc: Aztec District Office
1000 Rio Brazos Rd.
Aztec, NM 87410

Working Interest Owners

LINDRITH "B" UNIT
RIO ARRIBA COUNTY, NEW MEXICO

WORKING INTEREST OWNERS

Apache Corporation
1700 Lincoln St., Suite 2000
Denver, CO 80203-4520

Conoco, Inc.
P.O. Box 460
Hobbs, New Mexico 88240-0460

WINDRITH B 25

CC
Land 9A
Filer 5B

DAMAGE RELEASE AND EASEMENT AGREEMENT

~~E. Barber~~
Bloomfield NM

PW Richardson
Cortez (90%)

ROW Claims
Liberal KS
405

agreement is null and void, then agreement is null and void, B.W. Richardson

The Estate of Eulogia Candelaria hereby represents and warrants that it is the owner of the surface rights and in possession of the southeast quarter of Section 9, T. 24 N., R. 3 W., Rio Arriba County, New Mexico and that it is the only entity entitled to receive damages to the surface, to growing crops or to the pasture thereon.

Mobil Producing Texas & New Mexico Inc. represents that it is the Lessee of an oil and gas lease covering said section and is entitled by virtue of said lease to dispose of salt water by injection. Salt water will be limited to that produced from Mobil operated wells.

Mobil Producing Texas & New Mexico Inc. and the Estate of Eulogia Candelaria hereby agree that Mobil shall pay and the Estate of Eulogia Candelaria shall accept the sum of twenty thousand six hundred ninety and 50/100 dollars (\$20,690.50) as full and complete satisfaction for any and all damages to the surface caused directly or indirectly by Mobil, its contractors or subcontractors, in the operation of the Lindrith B Unit #25 well at its location of 1250' FSL & 1840' FEL, Section 9, T. 24 N., R. 3 W., Rio Arriba County, New Mexico. It is hereby understood and agreed that this settlement is for the existing road to, existing well pad, as well as any equipment needed for disposing of salt water and a proposed powerline.

The powerline easement into the well shall be limited to a width of thirty feet (30') and will follow the route shown on the attached centerline description. Furthermore, the northernmost 160 feet of powerline will be buried. The powerline easement will be reclaimed as determined by the Estate of Eulogia Candelaria.

Mobil shall have the right of ingress and egress to its powerline and the use of the well for salt water disposal for a period of ten (10) years from October 14, 1988, the date on which application was made to the NM Oil Conservation Division to convert the well to injection. If at the end of the ten (10) years, Mobil is still disposing of salt water in said well and said powerline, Mobil agrees to pay additional consideration at an annual rental for said rights. The amount of such consideration shall be negotiated at such time.

The undersigned, as Co-Executors of the Estate of Eulogia Candelaria, hereby waive any rights the Estate may have had or presently had to receive notice from Mobil Producing Texas & New Mexico, Inc. of Mobil's intention to utilize a well bore in the southeast quarter of Section 9, T. 24 N., R. 3 W., Rio Arriba County, New Mexico for the disposal of water produced in connection with oil and gas operations. The Co-Executors of the Estate of Eulogia Candelaria have no objection to these operations. If said payment has not been delivered to Fidel Candelaria

In witness whereof, Fidel Candelaria, co-executor of the Estate of Eulogia Candelaria, hereunto affixed his signature this 13th day of September, 1989.

Fidel Candelaria

Fidel Candelaria

SSN or TIN for the Estate of Eulogia Candelaria: 85-6094233

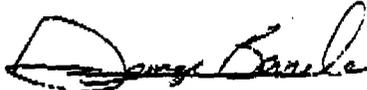
State of New Mexico

County of San Juan

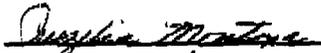
Before me, the undersigned, a Notary Public in and for said County and State, on this 13th day of September, 1989, personally appeared Lucho Gonzalez to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Given my hand and seal the day and year last above written.

My Commission Expires: November 4, 1989


Notary Public

In witness whereof, Cruzelia Montoya ^{C.M.} ~~Montoya~~, co-executor of the Estate of Eulogia Candelaria, hereunto affixed her signature this 13th day of September, 1989.

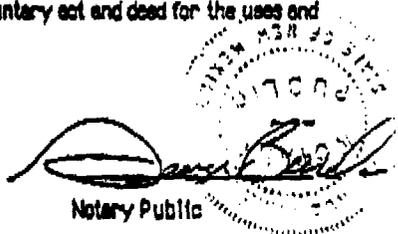

Cruzelia Montoya ^{C.M.} ~~Montoya~~

State of New Mexico)
County of San Juan)ss.

Before me, the undersigned, a Notary Public in and for said County and State, on this 13th day of September, 1989, personally appeared Cruzelia Montoya to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that she executed the same as her free and voluntary act and deed for the uses and purposes therein set forth.

Given my hand and seal the day and year last above written.

My Commission Expires: November 4, 1989


Notary Public

APPLICATION FOR AUTHORIZATION TO INJECT
FORM C-108

STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL
RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
PO BOX 2088
SANTA FE, NM 87504-2088

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Mobil Exploration & Producing U.S. Inc.
ADDRESS: 12450 Greenspoint Dr., Houston, TX 77060
CONTACT PARTY: Kristi Soderman PHONE: 713/775-2291
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project: Yes No Amending SWD-355
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 sources 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: Kristi Soderman TITLE: Sr. Environmental Engr.
SIGNATURE: Kristi Soderman DATE: 4/7/94
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

LINDRITH "B" UNIT WELL NO. 25
 Section 9, T24N, R3W, NMPM
 RIO ARRIBA COUNTY, NEW MEXICO

WELL HISTORIES - AREA OF REVIEW
 Wells within the prescribed one-half mile radius of
 Lindrith "B" Unit Well No. 25

Operator	Mobil	Mobil	Mobil	Mobil
Well Name/No.	Lindrith "B" Unit #24	Lindrith "B" Unit #35	Lindrith "B" Unit #41	Lindrith "B" Unit #28
Location	789 FSL 1495 FWL	1914 FNL 2076 FEL	1105 FNL 660 FEL	610 FNL 1880 FWL
S-T-R	9-24N-3W	9-24N-3W	16-24N-3W	16-24N-3W
Elev.	6869 GR	6978 GR	6920 GR	6869 GR
Status	PROD	PROD	PROD	PROD
Spud Date	8-16-83	10-12-85	12-1-85	8-56-85
T.D.	7750	7800	7750	7665
Zone	DAKOTA	DAKOTA	DAKOTA	DAKOTA
Perfs	7284-7508	7446-7652	7364-7575	7272-7494
Surface Casing	13 3/8 @ 395	9 5/8 @ 424	9 5/8 @ 422	13 3/8 @ 1500
Cement	475 SX	400 SX	400 SX	500 SX
Inter. Casing	8 5/8 @ 3300			8 5/8 @ 3293
Cement	900 SX			430 SX
Prod. Casing	4 1/2 @ 7750	5 1/2 @ 7800	5 1/2 @ 7735	5 1/2 @ 7665
Cement	1480 SX	3300 SX	2100 SX	1750 SX

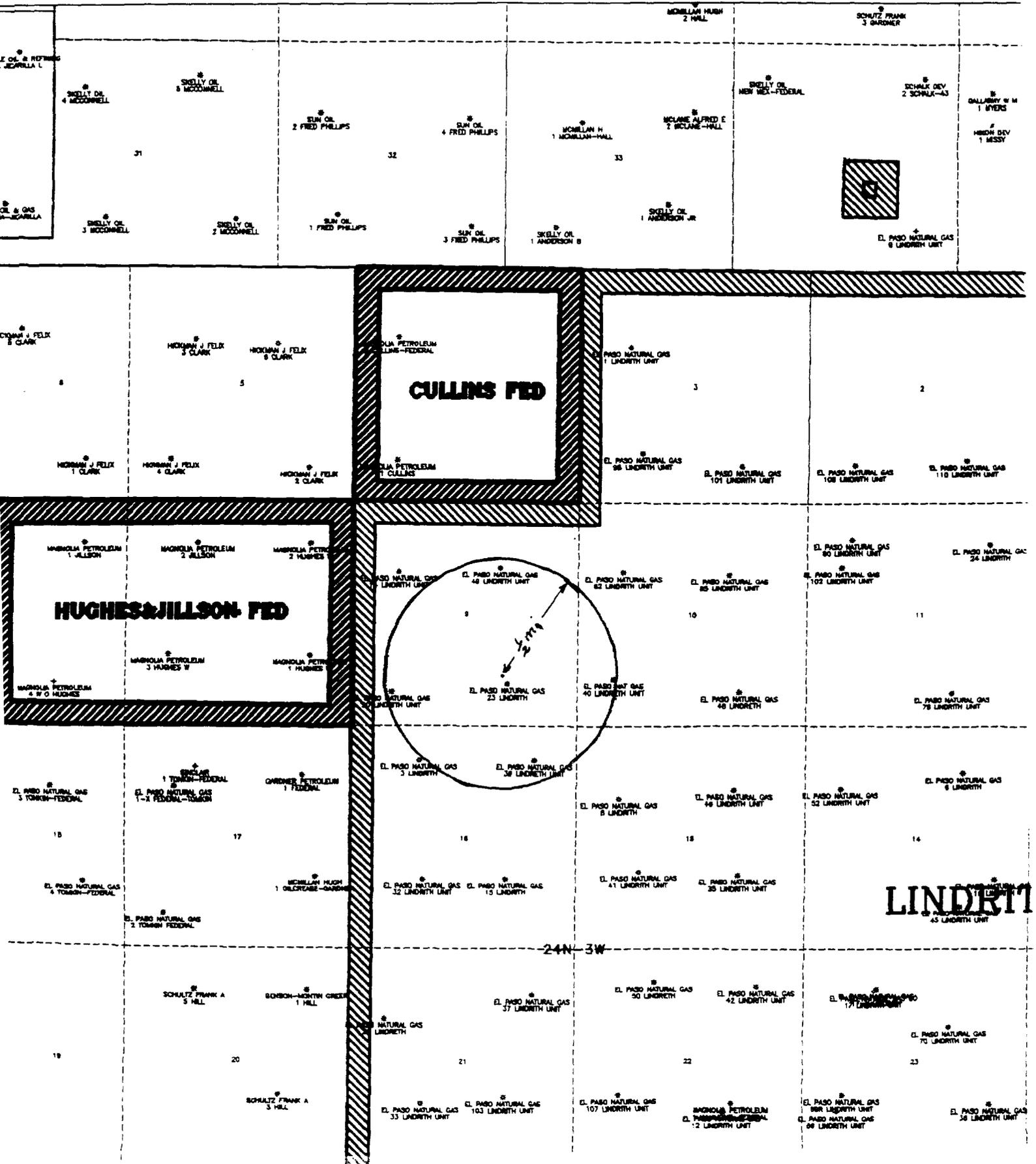
LINDRITH "B" UNIT WELL NO. 25
 Section 9, T24N, R3W, NMPM
 RIO ARRIBA COUNTY, NEW MEXICO

WELL HISTORIES - AREA OF REVIEW
 Wells within the prescribed one-half mile radius of
 Lindrith "B" Unit Well No. 25
 (Continued)

Operator	Meridian	Meridian	Meridian	Meridian	Meridian	Meridian
Well Name/No.	Lindrith Unit #23	Lindrith Unit #20	Lindrith Unit #49	Lindrith Unit #40	Lindrith Unit #39	Lindrith Unit #3
Location	1150 FSL 1800 FEL	800 FSL 900 FWL	1550 FNL 1840 FEL	1100 FSL 840 FWL	800 FNL 990 FEL	800 FNL 1550 FWL
S-T-R	9-24N-3W	9-24N-3W	9-24N-3W	10-24N-3W	16-24N-3W	16-24N-3W
Elevation	6892 GR	6886 DF	7030 GR	6905 GR	6916 GR	6896 DF
Status	PROD	PROD	PROD	PROD	PROD	PROD
Spud	3-14-58	4-7-57	9-15-63	6-16-61	6-13-61	7-25-55
T.D.	3194	3160	3351	3183	3151	3086
Zone	Pictured Cliffs	Pictured Cliffs	Pictured Cliffs	Pictured Cliffs	Pictured Cliffs	Pictured Cliffs
Perfs	3074-3120	3040-3088	3268-3296	3124-3154	3078-3116	3033-3086
Surface Casing	8 5/8 @ 128	9 5/8 @ 132	8 5/8 @ 120	8 5/8 @ 107	8 5/8 @ 96	9 5/8 @ 133
Cement	80 SX	100 SX	110 SX	140 SX	140 SX	100 SX
Inter. Casing						
Cement						
Prod. Casing	5 1/2 @ 3193	5 1/2 @ 3160	2 7/8 @ 3351	2 7/8 @ 3183	2 7/8 @ 3151	5 1/2 @ 3033
Cement	150 SX	50 SX	140 SX	230 SX	140 SX	150 SX

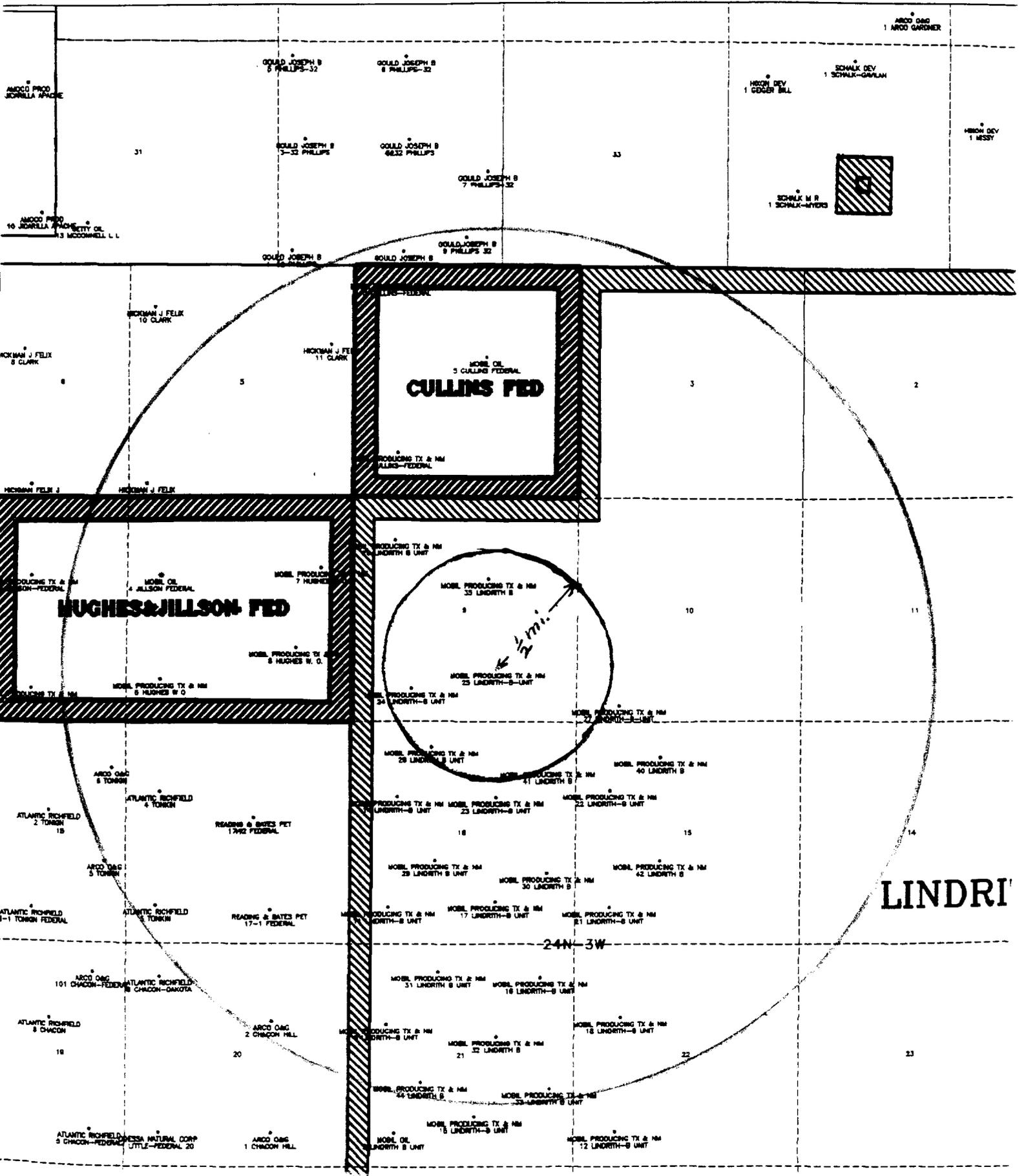
MOBIL
EPNG
LINDRITH UNIT
PICTURED CLIFFS WELLS

SHALLOW WELLS - NW PORTION OF LINDRITH UNIT



**MOBIL
LINDRITH B UNIT
BASIN DAKOTA WELLS**

DEEP WELLS - NW PORTION OF LINDRITH UNIT



SUPPLEMENTAL DATA
WATER DISPOSAL WELL APPLICATION

III. Well Data

A. 1. Lindrith "B" Unit, Well No. 25
1250' FSL and 1840' FEL of Section 9, T24N, R3W, Unit 0
Rio Arriba County, New Mexico

2. Casing:

<u>O.D.</u>	<u>Depth</u>	<u>Sacks Cement</u>	<u>Hole Size</u>	<u>Top of Cement</u>	<u>How Determined</u>
13 3/8	405	475	17 1/2	Surface	Circulated
8 5/8	3300	750	11	Surface	50 sx @ Surf
		+200			
4 1/2	7700	475	7 7/8	3300'+/-	125 sx Sqz
		+200			
		800 (DV)			
		+ 50			

3. Tubing:

2 3/8" O.D., 4.7#, J-55, EUE set @ +/-3550'

4. Packer:

Baker Model R3 set @ +/-3550'

CIBP w/2 sx cement to be set @ 4250'

B. 1. Injection Formation: Lewis, Chacra and Cliffhouse,
Blanco-Mesaverde Field

2. Injection perforations: 3600-4200'

3. Well was drilled and completed as a producer. Became uneconomic in less than 3 years. Attempted recompletion produced water from Dakota "E".

4. Previous perforations:

7313-7329, 7418-7424, 7494-7504, 7507-7513, 7515-7522
Squeezed with 150 sacks, 125 sacks into formation.

A casing leak was found at 3322' while recompleting in the Dakota "E" and was squeezed with 125 sacks of cement in three stages. Casing was pressure tested to 2100 psi for 30 minutes without pressure loss.

5. The next higher producing zone in the area of the well is the Pictured Cliffs formation. The next lower producing zone in the area of the well is the Dakota.

*TOP Cliffhouse
4741'*

*Ojo - 2600'
PC - 3000'
Lewis Shale*

SUPPLEMENTAL DATA
WATER DISPOSAL WELL APPLICATION

VII.

1. Maximum daily injection volume - 500 BWPD
Average daily injection volume - 150 BWPD
2. Same as original application
3. Maximum injection pressure will be 720 psi. Anticipated average pressure is 680 psi.
4. Same as original application
5. The Lewis, Chacra, and Cliffhouse sands are non-productive within a mile of the injection well

VIII.

1. Injection interval - Lewis/Chacra/Cliffhouse - Thickness - 600'
2. Same as original application

IX. Proposed stimulation program - well may be acidized - if so NMOCD will be notified

X. Same as original application

XI. Same as original application

XII. Available geologic and engineering data has been examined and no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

XIII. Proof of notice will be furnished directly from the publisher upon publication. Transmittal letter and draft of notice are enclosed.

Mobil Exploration & Producing U.S. Inc.

April 5, 1994

HOUSTON DIVISION
12450 GREENSPPOINT DRIVE
HOUSTON, TEXAS 77060-1991

Farmington Daily Times
201 N. Allen Avenue
Farmington, New Mexico 87401

Gentlemen:

Enclosed is a draft of a Notice of Permit Amendment for a water disposal well which requires publication in a paper of general circulation in the state. We request that this notice be published one day in your paper at the earliest possible date and the proof of publication be furnished to the following:

State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504

and

Mobil Exploration & Producing U.S. Inc.
Attn: Kristi Soderman
12450 Greenspoint Dr.
Houston, TX 77060

Stamped and addressed envelopes are enclosed for your convenience. Please invoice the undersigned for the publication costs.

Sincerely,



Bobbie R. Brown
Env & Reg Technician II

Attachment

LEGAL NOTICE OF PERMIT AMENDMENT
WATER DISPOSAL WELL

1. Contact Party for Applicant:

Kristi Soderman
Mobil Exploration & Producing U.S. Inc.
12450 Greenspoint Dr.
Houston, TX 77060
(713) 775-2291

2.) Purpose of the Injection Well:

Disposal of produced water from the wells operated by Mobil Oil Corporation, or its affiliates, in the Lindrith "B" Unit and/or throughout the San Juan Basin of New Mexico.

Well location:

Unit O, 1250' from South line and 1840' from East line of Section 9, Township 24N, Range 3W, NMPM, Rio Arriba County

3.) Injection Details:

Current formation and depth: Burro Canyon, 7570-7594', 7600-7660'
Interval requested in Amendment: Lewis, Chacra and Cliffhouse
3600-4200'

Current maximum injection rate: 1100 BWPD
Injection rate requested in Amendment: 500 BWPD
Current Maximum injection pressure: 1514 PSI
Injection pressure requested in Amendment: 720 PSI

4.) Filing of Objections or Requests for Hearing:

Filing Must Be Made to:
State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Period for Filing:
15 days from date of this publication

OIL CONSERVATION DIVISION
RECEIVED

'94 APR 21 AM 8 50

AFFIDAVIT OF PUBLICATION

No. 33116

STATE OF NEW MEXICO,
County of San Juan:

ROBERT LOVETT being duly sworn, says: "That he is the CLASSIFIED ADVERTISING MANAGER of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington, said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington Daily Times, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for ONE consecutive (DAYS) (//////) on the same day as follows:

First Publication SUNDAY, APRIL 10, 1994

Second Publication _____

Third Publication _____

Fourth Publication _____

and the cost of publication was \$ 61.59

Robert Lovett

On April 14, 1994 ROBERT LOVETT

appeared before me, whom I know personally to be the person who signed the above document.

Mary G. Sneed

Notary Public, San Juan County,
New Mexico

My Comm expires: MARCH 21, 1998

COPY OF PUBLICATION

LEGAL NOTICE OF PERMIT AMENDMENT WATER DISPOSAL WELL

1. Contact Party for Applicant:
Kristi Soderman
Mobil Exploration & Producing U.S. Inc.
12450 Greenspoint Dr.
Houston, TX 77060
(713) 775-2291
2. Purpose of the Injection Well:
Disposal of produced water from the wells operated by Mobil Oil Corporation, or its affiliates, in the Lindrith "B" Unit and/or throughout the San Juan Basin of New Mexico.

Well location:
Unit 0, 1250' from South line and 1840' from East line of Section 9, Township 24N, Range 3W, NMPM, Rio Arriba County
3. Injection Details:
Current formation and depth: Burro Canyon, 7570-7594', 7600-7660' Interval requested in Amendment: Lewis, Chacra and Cliffhouse
3600-4200'
Current maximum injection rate: 1100 BWPD
Injection rate requested in Amendment: 500 BWPD
Current Maximum injection pressure: 1514 PSI
Injection pressure requested in Amendment: 720 PSI
4. Filing of Objections or Requests for Hearing:

Filing Must Be Made to:
State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Period for Filing:
15 days from date of this publication

Legal No. 33116 published in The Daily Times, Farmington, New Mexico on Sunday, April 10, 1994.

LAND, approx. 38 acres
(be surveyed) nice flat,
a piece of land. Fronts a
county road. Has irriga-
and some irrigation pipe.
or financing and the owners
work with you on the terms.
ted near Bloomfield. Call
ia Wade, Bloomfield Realty
3353 week or 632-3842
or early mornings.

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Commercial Property

ST OF all commercial. Al-
st 10 acres on Bisti Highway.
ler wants cash. But this is a
spot for a business and you
like the car count. It's excel-
ent frontage on Highway 371.
audine's Real Estate 327-
77 or 325-2241.

COMMERCIAL PROPERTY
200 sq. ft. ample parking in
near, excellent for out of office
ales or supply building on main
oor with lounge, employee
quarters etc. upstairs, priced
ly at \$82,500...owner wants
see some offers NOW, Call
erri Century 21 So Wes Co
ealty 327-4491, or 324-
22 eves, 320-1948 mobile.

Mobil Exploration & Producing U.S. Inc.

April 28, 1994

HOUSTON DIVISION
12450 GREENSPOINT DRIVE
HOUSTON, TEXAS 77060-1991

State of New Mexico
Energy Minerals and Natural Resources Dept.
Oil Conservation Division
Mr. David Catanach
310 Old Sante Fe Trail
Sante Fe, New Mexico 87504

Disposal Permit Modification Lindrith "B" Unit #25

Dear Mr. Catanach:

This letter is to confirm a conversation between Mr. Ernie Bush of New Mexico Oil and Gas Conservation Commission, Aztec District Office and Mobil. On Tuesday, April 26, 1994, Mr. Bush, J. Faz, and K. Soderman, discussed the geology of the Lindrith B-25. Mr. Bush also confirmed that there was no Chacra production within a two mile radius of the well.

Mobil has requested an injection interval of 3600 - 4200 feet. Mr. Bush and Mr. Faz agreed that for the Lindrith B-25, the Huerfanito Bentonite was located at 3450 feet. The Chacra is found at 3950 feet and the Lower Lewis Shale is located at 4080 feet. Using this information, our injection will be limited to the Lewis Shale and Chacra.

Mr. Bush indicated that he would call and inform you of our discussion. Please call me at (713) 775-2291 if you require any further documentation or have questions regarding this information.

Sincerely,



K. L. Soderman
Sr. Environmental Engineer

cc: Aztec District Office
1000 Rio Brazos Road
Aztec, New Mexico 87410



STATE OF NEW MEXICO



ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

June 7, 1994

*DAC
File
SWD-355*

MR DAVID CATANACH
NMOCD
PO BOX 2088
SANTA FE NM 87504-2088

RE: Mobil Prod. Tex & NM Inc.
Lindrith B Unit #25 O-09-24N-03W

Dear David;

A Cement Bond Log ran on the referenced well on June 2, 1994 indicated good to excellent bonding from approximately 500' above, to at least 1000' below the proposed injection zones. An OCD witnessed mechanical integrity test conducted on June 6, 1994 passed.

The Geology of this area is such that no potential hydrocarbon bearing, or fresh water zones would be endangered, even if the well should develop mechanical problems. The Ojo Alamo and all other fresh water sands are behind the intermediate casing. A cast iron bridge plug was set at 4222' with 30' of cement dumped on top. I recommend that the request to ammend SWD Order-355 to dispose of produced water into casing leaks between 3640-3700' and 3755-3938' be approved with a surface pressure limitation of no more than 728 PSI.

Yours truly

Charles Gholson
Deputy Oil & Gas Inspector

CG/cs

xc: Well File
UIC file