Mobil Exploration & Producing U.S. Inc.

June 15, 1990

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

RECEIVED

JUN 20 1990

OIL CONSERVATION DIVISION

Case 10000

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention: Florene Davidson

NOTICE OF APPLICATION FOR WATER INJECTION, DOWNHOLE COMMINGLE, and DUAL COMPLETION
BRIDGES STATE WELLS NO. 109, 116, 119, 204
VACUUM-GLORIETA POOL,
VACUUM-BLINEBRY POOL,
VACUUM ABO NORTH POOL
SEC. 25- T-17-S, R-34-E
LEA COUNTY, NEW MEXICO

Dear Ms. Davidson:

Mobil Exploration & Producing U. S. Inc. (MEPUS), as Agent for Mobil Producing Texas & New Mexico Inc., respectfully requests authority to re-enter the existing wells and inject water into the Glorieta and Blinebry formations for secondary recovery. The wells are currently Abo injectors. The Glorieta and Blinebry will be commingled downhole for injection, and isolated from the dual Abo injection by packers. New Mexico Oil Conservation Department docket's case has been set for July 11, 1990.

For such a completion, we request authority to inject a commingled stream into the Glorieta and Blinebry zones in each of these wells. We are enclosing a copy of Case No. 4831, Order No. R-4430 administrative approval for a pressure maintenance project in the Vacuum Abo North reservoir.

Information supporting the application is presented on Forms, C-101, C-102, C-107 and C-108. C-108 is included for the Glorieta and Blinebry formations since these reservoirs are not currently authorized for secondary recovery projects.

A:M15548B.JWD

An offset who recently received downhole commingling approval is the Marathon McAllister State No.9, Case DHC-751 dated February 20, 1990. These wells meet all prerequisites for commingling, as set out in Rule 303(C). The ownership of these zones is common and has been successfully commingled on adjacent leases with no incompatibility of fluids found.

In additional support, the following is attached:

1. List of Exhibits containing information common to several application NMOCD forms.

2. Certified address list of Offset Operators and mineral owners notified together with attached waivers.

3. Copy of Affidavit of publication and newspaper clipping for Notice of Application for Water Injection Well will be forthcoming.

4. Copy of letter to County Clerk.

In conclusion, MEPUS believes that approval of this request will result in more efficient recovery of hydrocarbons and will extend the productive life of both zones, thereby preventing waste. If any further information is needed, please contact J. W. Dixon at (915) 688-2452.

Yours very truly,

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

Guy D. Miller

G. N. Miller
Environmental, Regulatory and
Loss Prevention Supervisor

JWD

Attachments

cc: w/attachments
Oil Conservation Division - Hobbs
Offset Operators
Mineral Owners
County Clerk

A:M15548B.JWD

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Yours very truly,

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

Guy D. Miller

G. N. Miller
Environmental, Regulatory and
Loss Prevention Supervisor

JWD

Attachments

cc: w/attachments
Oil Conservation Division - Hobbs
Offset Operators
Mineral Owners
County Clerk

bcc: w/attachments
Drlg. Engr. Sec.
Drlg Supt - G. H. Huff
Proration Acct.
Central Files
Regulatory Files
Ops Supv. - R. P. Pratt
Prod Eng Supv - K. Walters
Res Engr Supv - L. Marczynski
W. Perry Pearce
Box 2037, Santa Fe, NM 88201

A:M15548B.JWD

MOBIL EXPLORATION & PRODUCING U.S. INC.
SECTION 24 and 25, T-17-S, R-34-E
VACUUM FIELD
LEA COUNTY, NEW MEXICO

This application was sent by certified mail to the surface owner of the land on which the well is located and to each offset operator/mineral owner.

OFFSET OPERATOR

ATTN: S. C. SCHRAUB
MARATHON OIL COMPANY
P. O. BOX 552
MIDLAND, TEXAS 79702-0552

ATTN: A. W. DEES
TEXACO, INC.
BOX 3109
MIDLAND, TEXAS 79702-3109

SHELL WESTERN E & P INC.
P.O. BOX 576
HOUSTON, TEXAS 77001

NEW YORK LIFE OIL & GAS ET AL
2100 NCNB CENTER
700 LOUISIANA
HOUSTON, TEXAS 77002

EXXON COMPANY, U.S.A.
BOX 2180
HOUSTON, TEXAS 77252-2180

THE MCBEE COMPANY, A TEXAS
GENERAL PARTNERSHIP
3738 OAK LAWN, AVE. LB 200
DALLAS, TEXAS 75201

ARTHUR L. BOOTH, ET UX
1905 CARMEL
PLANO, TEXAS 75077

PETRO LEWIS CORPORATION
717 17TH STREET
DENVER, COLORADO 80202

JOHN E. STEIN, TRUST OR
SUCCESSOR IN TRUST OF THE
JOHN E. STEIN REVOCABLE TRUST
3953 SOUTH NEWPORT WAY
DENVER, COLORADO 80237

AMERICAN PRODUCTION & EXPL.
2100 NCNB CENTER
700 LOUISIANA
HOUSTON, TEXAS 77080

JOHN G. MCMILLIAN, JR.
OFFICE IN THE GROVE SUITE 800F
2699 SOUTH BAYSHORE DRIVE
COCONUT GROVE, FLORIDA 33133

PHILLIPS PETROLEUM COMPANY
4001 PENBROOK
ODESSA, TEXAS 79762

ARCO
BOX 1610
MIDLAND, TEXAS 79702

YUCCA SALVAGE COMPANY
4000 NORTH BIG SPRING
SUITE 305
MIDLAND, TX 79705

MINERAL OWNER & SURFACE OWNER

STATE OF NEW MEXICO
BOX 2088
SANTA FE, NEW MEXICO 87501

A:M15548B.JWD

W A I V E R

MOBIL EXPLORATION & PRODUCING U. S. INC.
P. O. BOX 633
MIDLAND, TEXAS 79702

ATTN: J. W. DIXON

**NOTICE OF APPLICATION FOR WATER INJECTION,
DOWNHOLE COMMINGLE AND DUAL COMPLETIONS
BRIDGES STATE WELLS 109, 116, 119, & 204
VACUUM-GLORIETA,VACUUM-BLINEBRY
AND VACUUM -ABO NORTH POOLS
LEA COUNTY, NEW MEXICO**

Gentlemen:

We, the undersigned, have been furnished a copy of Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc.'s application to drill the subject wells on an unorthodox location under the provisions of Rule 104 (F) and NMOCD Rule 1207- Notification Requirement. It is requested to downhole commingle the Glorieta and Blinebry injection in one tubing string and dual Abo injection with a second tubing string. The wells are presently Abo injectors. Please be informed that we, as an offset operator/mineral owner, have no objection to the completion of these wells as set forth in MEPUS's application dated June 15, 1990.

Yours truly,

Company: _____

Representative: _____

Name: _____
(Please print)

Signature: _____

Title: _____

Date: _____

A:M15548B.JWD

Mobil Exploration & Producing U.S. Inc.

June 15, 1990

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

County Clerk
Ms. Pat Snipes
P.O. Box 1507
Lovington, New Mexico 88260

NOTICE OF APPLICATION FOR
WATER INJECTION WELLS
BRIDGES STATE WELLS 109, 116, 119,
and 204
VACUUM-GLORIETA POOL,
VACUUM-BLINEBRY POOL,
VACUUM-ABO NORTH POOL
SEC. 24 & 25, T-17-S, R-34-E
LEA COUNTY, NEW MEXICO

Dear Ms. Snipes:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico, to inject fresh water into a reservoir productive of oil or gas in the above captioned wells.

The Oil Conservation Division requires that the enclosed application be sent to you for public information notice in the county in which the well is located. Please post the attached application as you desire.

Yours very truly,

MOBIL EXPLORATION & PRODUCING U.S. INC.
AS AGENT FOR
MOBIL PRODUCING TEXAS & NEW MEXICO INC.

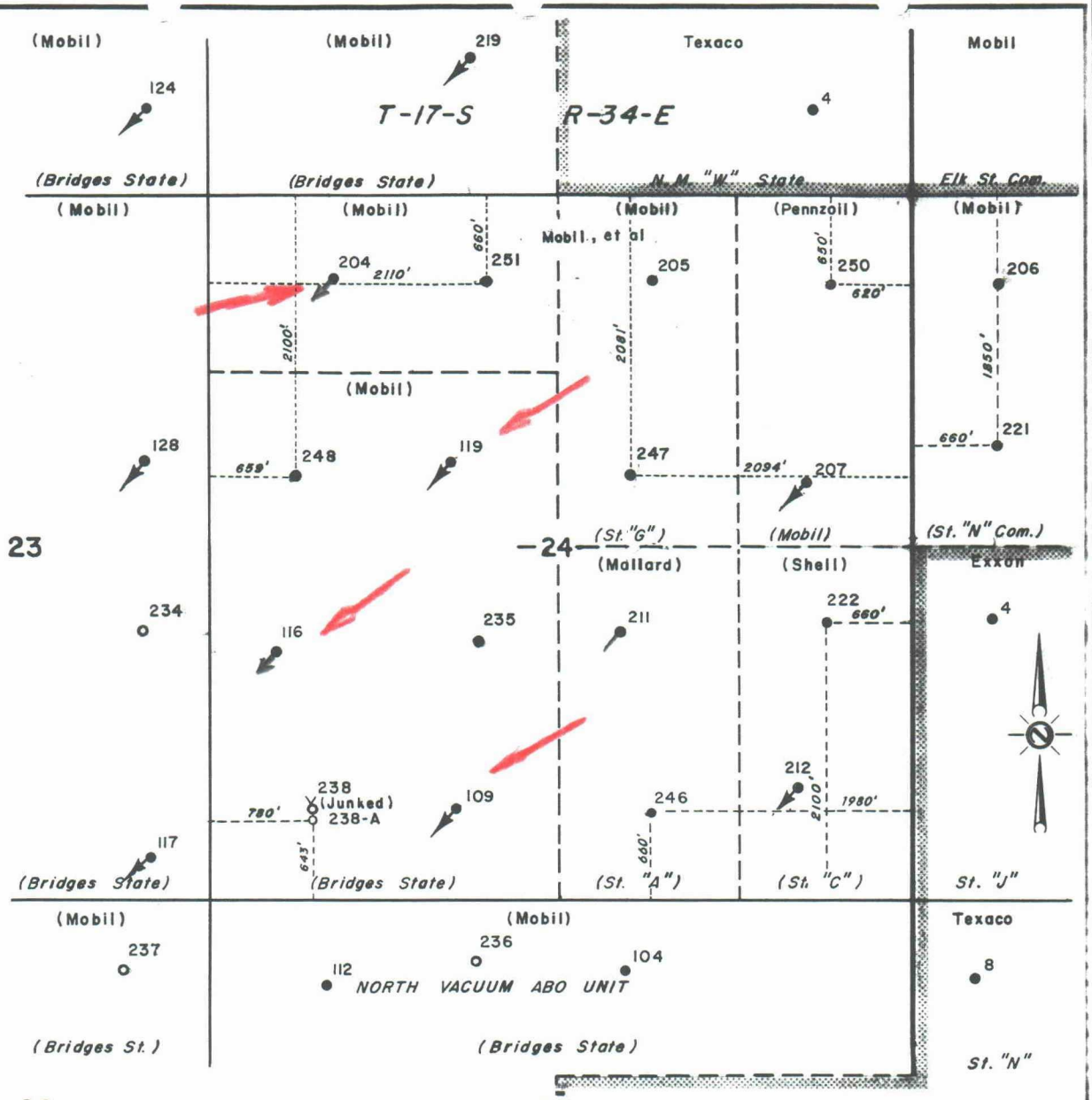
Guy D. Miller

G. N. Miller
Environmental, Regulatory and Loss
Prevention Supervisor

JWD

A:M15548B.JWD

CO-7214 (10-66)



Reserve Permit depth

Special Instructions

Date work is commenced , 19 Supt.

Location approved by Plat by Surveyed by

THE STATE OF **TEXAS**
COUNTY OF **HARRIS**

I hereby certify that this plat truly represents conditions as they actually exist on this lease; that said plat which is drawn to the scale indicated hereon, is to the best of my knowledge true and correct; that it accurately shows said lease with all wells on same; that number and locations of said wells are as indicated hereon; and that this plat correctly reflects all pertinent and required data.

"Partial Plat"

Mobil Producing Texas & New Mexico Inc.
Houston, Texas

LEASE North Vacuum Abo Unit
WELL NO. DATE 19
DIVISION LEASE NO. NM 558-B
TOTAL ACRES IN LEASE 5995.20 ACRES COVERED BY PLAT
DESCRIPTION T-17-S, R-34 & 35-E

Lea County, New Mexico

DRAWN MLC	DATE 9-4-74	FIELD North Vacuum-Abo
SCALE 1"=1000'	FILE NO. 84	

K&E 17 5153 4-69•

EXHIBITS CONTAINING INFORMATION COMMON TO NMOCD APPLICATION FORMS

- LIST OF OFFSET OPERATORS/MINERAL OWNERS
- LIST OF WELLS WITHIN ONE-HALF MILE OF SUBJECT WELLS
- WELLBORE SKETCHES OF P&A'D WELLS IN AREA
- NORTH VACUUM ABO UNIT NO. 109 WELL LOG
- MAP OF ALL WELLS WITHIN TWO MILES
- MAP OF ALL WELLS WITHIN 0.5 MILES
- WATER ANALYSES PREPARED BY MARTIN WATER LABORATORIES, INC.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Grayburg San Andres Field

I. **Purpose:** [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. **Operator:** Mobil Exploration & Producing U.S., Inc. as Agent for
Address: Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702

Contact party: G. N. Miller **Phone:** (915) 688-1753

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-1244 dated 9/17/58.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. N. Miller **Title** Environmental , Regulatory & Loss Prevention Supervisor

Signature: G. N. Miller **Date:** 6/15/90

* 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.

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

OIL CONSERVATION DIVISION
ATTACHMENT TO
NEW MEXICO FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Grayburg/San Andres Field

I. Purpose: Secondary Recovery

II. Operator: Mobil Exploration & Producing U.S. Inc. as Agent for
Mobil Producing Texas & New Mexico Inc.
Address: P.O. Box 633 Midland, TX 79702
Contact Party: G.N. Miller, Supv Environmental and Regulatory (915) 688-2000

III. Well Data
A. See attached schematics
B. 1. Vacuum Grayburg San Andres Field
2. Injection interval: 4444' - 5923' (NVAU #109 type log)
3. Original use of wellbore:
Bridges State #601 - inject into Glorieta + Blinebry
Bridges State #602 - inject into Glorieta + Blinebry
4. See attached schematics
5. Next higher oil-producing zone (both wells)
Yates: 2886' - 3810' (NVAU #109 type log)
5. Next lower oil-producing zone (both wells):
Glorieta: 5923' - 6303' (NVAU #109 type log)

IV. Is this an expansion of an existing project? Yes, Order #R-1244 dated 9-17-58

V. See attached map

VI. Previously submitted

VII. 1. Average daily injection rate: 400 BWPD
Maximum daily injection rate: 800 BWPD
2. Closed system
3. Average injection pressure: 950 psig
Maximum daily injection pressure: 950 psig
4. Proposed injection fluid: fresh water
See attached exhibits for fluid compatibility
5. Not applicable

VIII. See attached cross-sections

IX. Proposed stimulation program - 8000 gal 15% DI NEFE HCL acid

X. Logs to ~~be~~ furnished after wells have completed

XI. See attached table

XII. Not applicable

XIII. See attached notices -(See offset operator/mineral owner list)

EXHIBIT TO ITEM XI
FORM C-108

VACUUM FIELD FRESH WATER WELLS
LEA COUNTY, NEW MEXICO
CHLORIDE CONTENT (PPM)

I.D. WELL DESCRIPTION	1990 MARCH	LOCATION
TEXACO CVU SUPPLY WELL NO. 1	*	Unit M Sec 30 T17S R35E
BUCKEYE STORE WATER WELL	36	Unit P Sec 25 T17S R34E
FORKLIFT ENT. BUCKEYE STATION	*	Unit D Sec 30 T17S R35E
NVAU NO. 100	169	Unit J Sec 14 T17S R34E
NVAU NO. 101	122	Unit D Sec 14 T17S R34E
BRIDGES STATE NO. 179	41	Unit P Sec 14 T17S R34E
BRIDGES STATE NO. 94	80	Unit J Sec 14 T17S R34E
RANCH WINDMILL	31	Unit N Sec 18 T17S R35E
AMAX NO. 6	55	Unit D Sec 26 T17S R34E
MOBIL OFFICE WATER WELL	60	Unit B Sec 25 T17S R34E
LEE PLANT SUPPLY WELL NO. 3	160	Unit B Sec 31 T17S R35E
LEE PLANT SUPPLY WELL NO. 4	*	Unit D Sec 31 T17S R35E
MOBIL SUPPLY WELL NO. S09	*	Unit H Sec 24 T17S R34E

*Inactive, unable to test

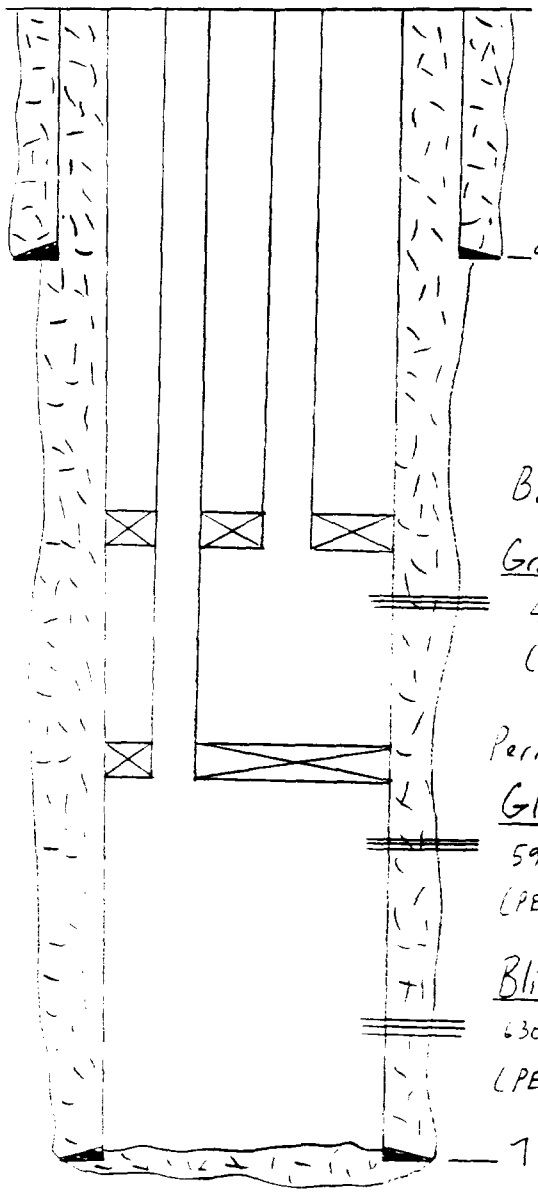
DATE 5-30-90 **WELL NO.** 601 **LEASE** Bridges State

FIELD Vacuum Glorieta, Blinebry, + Grayburg / San Andres **LOCATION** Unit F Sec 25 T17S R34E Lea County, NM

SIGNED G Elwood

GL NA
DF
KB
ZERO

PROPOSED DIAGRAM
(TO BE DRILLED)



9 5/8" csg set to ± 1600', cmt circ (12 1/4" hole)

Baker Model A-5 Hydrostatic Dual pkr set @ ± 4400' + 2 3/8" J-55 bare tbg PROPOS

Grayburg / San Andres Perfs
4444-5923' interval
(PERFS TO BE DETERMINED)

Perm pkr set @ ± 5900' + 2 3/8" J-55 bare tbg PROPOSE

Glorieta Perfs
5923-6303' interval
(PERFS TO BE DETERMINED)

Blinebry Perfs
6303-7300' interval
(PERFS TO BE DETERMINED)

7" csg set to ± 6400', cmt circ (8 3/4" hole)

TD ± 6400'
PBTD ± 6400'

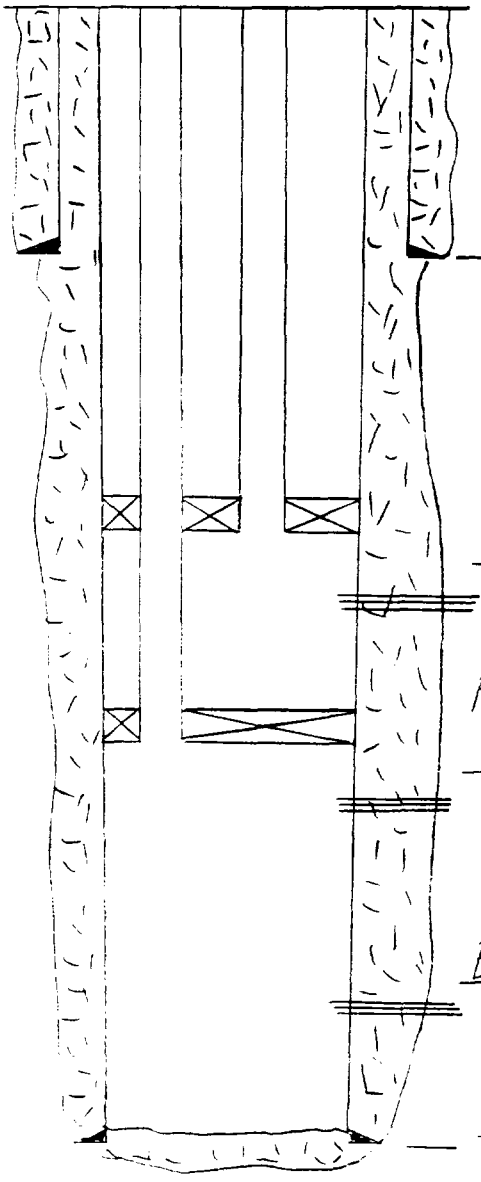
DATE 5-30-90 WELL NO. 602 LEASE Bridges State

FIELD Vacuum Glorieta, Blinebry, Grayburg / San Andres LOCATION Unit D Sec 25 T17S R34E Lea County, NM

SIGNED D G Elwood

GL NA
DF
KB
ZERO

PROPOSED DIAGRAM
(TO BE DRILLED)



9 5/8" csg set to ± 1600', cmt circ
(12 1/4" hole)

Baker Model A-5 Hydrostatic Dual pkr set @ ± 4400' + 2 3/8" J-55 bare tbg PROPOSE

Grayburg / San Andres Perfs
4444 - 5923' interval
(PERFS TO BE DETERMINED)

Perm pkr set @ ± 5900' + 2 3/8" J-55 bare tbg PROPOSED

Glorieta Perfs
5923 - 6303' interval
(PERFS TO BE DETERMINED)

Blinebry Perfs
6303 - 7300'
(PERFS TO BE DETERMINED)

7" csg set to ± 6800', cmt circ
(8 3/4" hole)

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

RECEIVED
JUN 20 1990
OIL CONSERVATION DIVISION

Case 10000

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Blinebry Field

I. Purpose: [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. Operator: Mobil Exploration & Producing U.S., Inc. as Agent for
Address: Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702

Contact party: G. N. Miller Phone: (915) 688-1753

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? [ ] yes [X] no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. N. Miller Title Environmental , Regulatory & Loss Prevention Supervisor

Signature: Guy D. Miller Date: 6/15/90

* 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. _____

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

OIL CONSERVATION DIVISION
ATTACHMENT TO
NEW MEXICO FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Blinebry Field

I. Purpose: Secondary Recovery

II. Operator: Mobil Exploration & Producing U.S. Inc. as Agent for
Mobil Producing Texas & New Mexico Inc.
Address: P.O. Box 633 Midland, TX 79702
Contact Party: G.N. Miller, Supv Environmental and Regulatory (915) 688-2000

III. Well Data
A. See attached schematics
B. 1. Vacuum Blinebry Field
2. Injection interval: 6303' - 7300' (NVAU #109 type log)
3. Original use of wellbore:
Bridges State #601 - inject into Glorieta + Blinebry
Bridges State #602 - inject into Glorieta + Blinebry
North Vacuum Abo Unit #109 - inject into Glorieta + Blinebry
North Vacuum Abo Unit #116 - inject into Glorieta + Blinebry
North Vacuum Abo Unit #119 - inject into Glorieta + Blinebry
North Vacuum Abo Unit #204 - inject into Glorieta + Blinebry
4. See attached schematics
5. Next higher oil-producing zone (both wells)
Glorieta: 5923' - 6303' (NVAU #109 type log)
5. Next lower oil-producing zone (both wells)
Abo: 8000' - 9272' (NVAU #109 type log)

IV. Is this an expansion of an existing project? No

V. See attached map

VI. See attached table and wellbore schematic

VII. 1. Average daily injection rate: 100 BWPD
Maximum daily injection rate: 200 BWPD
2. Closed system
3. Average injection pressure: 1000 psig
Maximum daily injection pressure: 1200 psig
4. Proposed injection fluid: fresh water
See attached exhibits for fluid compatibility
5. Not applicable

VIII. See attached cross-sections

IX. Proposed stimulation program - 8000 gal 15% DI NEFE HCL acid

X. Logs on file (601 & 602 will be furnished when well completed)

XI. See attached table

XII. Not applicable

XIII. See attached notices (see offset operator/mineral owner list)

EXHIBIT TO ITEM XI
FORM C-108

VACUUM FIELD FRESH WATER WELLS
LEA COUNTY, NEW MEXICO
CHLORIDE CONTENT (PPM)

I.D. WELL DESCRIPTION	1990 MARCH	LOCATION
TEXACO CVU SUPPLY WELL NO. 1	*	Unit M Sec 30 T17S R35E
BUCKEYE STORE WATER WELL	36	Unit P Sec 25 T17S R34E
FORKLIFT ENT. BUCKEYE STATION	*	Unit D Sec 30 T17S R35E
NVAU NO. 100	169	Unit J Sec 14 T17S R34E
NVAU NO. 101	122	Unit D Sec 14 T17S R34E
BRIDGES STATE NO. 179	41	Unit P Sec 14 T17S R34E
BRIDGES STATE NO. 94	80	Unit J Sec 14 T17S R34E
RANCH WINDMILL	31	Unit N Sec 18 T17S R35E
AMAX NO. 6	55	Unit D Sec 26 T17S R34E
MOBIL OFFICE WATER WELL	60	Unit B Sec 25 T17S R34E
LEE PLANT SUPPLY WELL NO. 3	160	Unit B Sec 31 T17S R35E
LEE PLANT SUPPLY WELL NO. 4	*	Unit D Sec 31 T17S R35E
MOBIL SUPPLY WELL NO. S09	*	Unit H Sec 24 T17S R34E

*Inactive, unable to test

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

RECEIVED
JUN 20 1990
OIL CONSERVATION DIVISION

FORM C-108
Revised 7-1-81

Case 10000

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Glorieta Field

I. **Purpose:** [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. **Operator:** Mobil Exploration & Producing U.S., Inc. as Agent for
Address: Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702

Contact party: G. N. Miller **Phone:** (915) 688-1753

III. **Well data:** Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. **Is this an expansion of an existing project?** [ ] yes [X] no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. **Certification**

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. N. Miller **Title** Environmental , Regulatory & Loss Prevention Supervisor

Signature: Guy D. Miller **Date:** 6/15/90

* 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. _____

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

OIL CONSERVATION DIVISION
ATTACHMENT TO
NEW MEXICO FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery

II. Operator: Mobil Exploration & Producing U.S. Inc. as Agent for
Mobil Producing Texas & New Mexico Inc.
Address: P.O. Box 633 Midland, TX 79702
Contact Party: G.N. Miller, Supv Environmental and Regulatory (915) 688-2000

III. Well Data
A. See attached schematics
B. 1. Vacuum Glorieta Field
2. Injection interval: 5923' - 6303' (NVAU #109 type log)
3. Original use of wellbore:
NVAU #109 - produce Upper Penn Formation
NVAU #116 - produce Upper Penn Formation
NVAU #119 - produce Upper Penn Formation
NVAU #204 - produce Upper Penn Formation
Bridges State #601 - inject into Glorieta
Bridges State #602 - inject into Glorieta
4. See attached schematics
5. Next higher oil-producing zone (all 6 wells)
Grayburg: San Andres 4444' - 5923' (NVAU #109 type log)
5. Next lower oil-producing zone (all 6 wells)
Blinebry: 6303' - 7300' (NVAU #109 type log)

IV. Is this an expansion of an existing project? No

V. See attached map

VI. See attached table and wellbore schematic

VII. 1. Average daily injection rate: 400 BWPD
Maximum daily injection rate: 800 BWPD
2. Closed system
3. Average injection pressure: 1000 psig
Maximum daily injection pressure: 1200 psig
4. Proposed injection fluid: fresh water
See attached exhibits for fluid compatibility
5. Not applicable

VIII. See attached cross-sections

IX. Proposed stimulation program - 8000 gal 15% DI NEFE HCL acid

X. Logs on file (601 & 602 will be furnished after wells completed)

XI. See attached table

XII. Not applicable

XIII. See attached notices (see offset operator/mineral owner list)

EXHIBIT TO ITEM XI
FORM C-108

VACUUM FIELD FRESH WATER WELLS
LEA COUNTY, NEW MEXICO
CHLORIDE CONTENT (PPM)

I.D. WELL DESCRIPTION	1990 MARCH	LOCATION
TEXACO CVU SUPPLY WELL NO. 1	*	Unit M Sec 30 T17S R35E
BUCKEYE STORE WATER WELL	36	Unit P Sec 25 T17S R34E
FORKLIFT ENT. BUCKEYE STATION	*	Unit D Sec 30 T17S R35E
NVAU NO. 100	169	Unit J Sec 14 T17S R34E
NVAU NO. 101	122	Unit D Sec 14 T17S R34E
BRIDGES STATE NO. 179	41	Unit P Sec 14 T17S R34E
BRIDGES STATE NO. 94	80	Unit J Sec 14 T17S R34E
RANCH WINDMILL	31	Unit N Sec 18 T17S R35E
AMAX NO. 6	55	Unit D Sec 26 T17S R34E
MOBIL OFFICE WATER WELL	60	Unit B Sec 25 T17S R34E
LEE PLANT SUPPLY WELL NO. 3	160	Unit B Sec 31 T17S R35E
LEE PLANT SUPPLY WELL NO. 4	*	Unit D Sec 31 T17S R35E
MOBIL SUPPLY WELL NO. S09	*	Unit H Sec 24 T17S R34E

*Inactive, unable to test

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4831
Order No. R-4430

APPLICATION OF MOBIL OIL
CORPORATION FOR A PRESSURE
MAINTENANCE PROJECT, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 27, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 27th day of October, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Mobil Oil Corporation, seeks authority to institute a pressure maintenance project in the North Vacuum-Abo Pool in its North Vacuum-Abo Unit Area, Lea County, New Mexico, by the injection of gas and water into the Abo formation through 34 wells located in Sections 3, 10, 11, 12, 13, 14, 15, 22, 23, 24, 25, 26, and 27, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(3) That the applicant further seeks the designation of the project area and the promulgation of special rules and regulations governing said project including a provision for administrative approval for unorthodox locations for injection wells and producing wells.

(4) That initially the project area should comprise only the following-described area:

LEA COUNTY, NEW MEXICO

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 2: SW/4
Section 3: SE/4
Section 10: E/2
Section 11: S/2
Section 12: NE/4 and S/2
Section 13: N/2 and SW/4
Section 14: All
Section 15: E/2
Section 22: E/2
Sections 23 and 24: All
Section 25: NW/4 and N/2 NE/4
Section 26: All
Section 27: E/2

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 19: W/2 NW/4

(5) That a pressure maintenance project, designated the Mobil North Vacuum-Abo Pressure Maintenance Project, comprising the above-described area is in the interest of conservation and should result in greater ultimate recovery of oil, thereby preventing waste.

(6) That an administrative procedure should be established whereby said project area may be expanded for good cause shown and whereby additional injection wells and producing wells at orthodox and unorthodox locations in the project area may be approved without the necessity of notice and hearing.

(7) That special rules and regulations for the operation of the Mobil North Vacuum-Abo Pressure Maintenance Project should be promulgated and, for operational convenience, such rules should provide certain flexibility in authorizing the production of the project allowable from any well or wells in the project area in any proportion, provided that no well in the project area which directly or diagonally offsets a well on another lease producing from the same common source of supply should be allowed to produce in excess of top unit allowable for the North Vacuum-Abo Pool until such time as the well has experienced a substantial response to water injection. When such a response has occurred, the well should be permitted to produce up to two times top unit allowable for the North Vacuum-Abo Pool. Production of such well at a higher rate should be authorized only after notice and hearing.

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to institute a pressure maintenance project in the

North Vacuum-Abo Pool in its North Vacuum-Abo Unit Area, Lea County, New Mexico, to be designated the Mobil North Vacuum Abo Pressure Maintenance Project, by the injection of gas and water into the Abo formation, through the following-described wells:

LEA COUNTY, NEW MEXICO
TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

OPERATOR	LEASE (8-55 now NVAU)	WELL NO.	SECTION	LOCATION	
Mobil	Bridges State	172	3	P	
Mobil	" "	166	10	H	
Shell	State "VH"	1 = NVAU 202	10	P	
Mobil	Bridges State	130 (a dual completion)	15	H	NVAU 130
Mobil	" "	144	15	P	
Mobil	State "J"	9 = NVAU 208	22	H	
Shell	Location	to be drilled NVAU 220	22	P	
Mobil	Bridges State	157	27	H	
Mobil	" "	145	27	P	
Mobil	" "	148	11	N	
Mobil	" "	173	14	F	
Mobil	" "	171	14	N	
Mobil	" "	151 (a dual completion)	23	F	
Mobil	State "KK"	1 NVAU 213	23	N	
Mobil	Bridges State	118	26	F	NVAU 118
Mobil	" "	153	26	N	
Mobil	" "	140	11	P	
Mobil	" "	125 (a dual completion)	14	H	
Mobil	" "	124 (a dual completion)	14	P	NVAU 124
Mobil	" "	128	23	H	NVAU 128
Mobil	" "	117 (a dual completion)	23	P	NVAU 117
Mobil	" "	96	26	H	NVAU 96
Mobil	" "	95 (a dual completion)	26	P	
Mobil	" "	150	12	N	
Mobil	" "	147 (a dual completion)	13	F	
Mobil	" "	120 (a dual completion)	13	N	
Mobil	" "	119 (a triple completion)	24	F	NVAU 119
Mobil	" "	109 (a triple completion)	24	N	NVAU 109
Mobil	" "	108 (a triple completion)	25	F	
Mobil	" "	161	12	H	
Mobil	" "	159	12	P	
Mobil	" "	169	13	H	
Pennzoil	Mobil State	1 NVAU 207	24	H	

(2) That Special Rules and Regulations governing the operation of the Mobil North Vacuum-Abo Pressure Maintenance Project, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS
FOR THE
MOBIL NORTH VACUUM-ABO PRESSURE MAINTENANCE PROJECT

RULE 1. The project area of the Mobil North Vacuum-Abo Pressure Maintenance Project, hereinafter referred to as the Project, shall comprise the area described as follows:

LEA COUNTY, NEW MEXICO
TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 2: SW/4
Section 3: SE/4
Section 10: E/2
Section 11: S/2
Section 12: NE/4 and S/2
Section 13: N/2 and SW/4
Section 14: All
Section 15: E/2
Section 22: E/2
Sections 23 and 24: All
Section 25: NW/4 and N/2 NE/4
Section 26: All
Section 27: E/2

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 19: W/2 NW/4

RULE 2. The allowable for the Project shall be the sum of the allowables of the several wells within the project area, including those wells which are shut-in, curtailed, or used as injection wells. Allowables for all wells shall be determined in a manner hereinafter prescribed.

RULE 3. Allowables for injection wells may be transferred to producing wells within the project area, as may the allowables for producing wells which, in the interest of more efficient operation of the Project, are shut-in or curtailed because of high gas-oil ratio or are shut-in for any of the following reasons: pressure regulation, control of pattern or sweep efficiencies, or to observe changes in pressures or changes in characteristics of reservoir liquids or progress of sweep.

RULE 4. The allowable assigned to any well which is shut-in or which is curtailed in accordance with the provisions of Rule 3 which allowable is to be transferred to any well or wells in the project area for production, shall in no event be greater than its ability to produce during the test prescribed by Rule 6,

below, or greater than the current top unit allowable for the pool during the month of transfer, whichever is less.

RULE 5. The allowable assigned to any injection well on an 80-acre proration unit shall be top unit allowable for the North Vacuum-Abo Pool.

RULE 6. The allowable assigned to any well which is shut-in or curtailed in accordance with Rule 3, shall be determined by a 24-hour test at a stabilized rate of production, which shall be the final 24-hour period of a 72-hour test throughout which the well should be produced in the same manner and at a constant rate. The daily tolerance limitation set forth in Commission Rule 502 I (a) and the limiting gas-oil ratio (2,000 to 1) for the pool shall be waived during such tests. The project operator shall notify all operators offsetting the well, as well as the Commission, of the exact time such tests are to be conducted. Tests may be witnessed by representatives of the offsetting operators and the Commission, if they so desire.

RULE 7. The basic allowable assigned to each producing well in the Project shall be equal to the well's ability to produce or to top unit allowable for the pool, whichever is less. Wells capable of producing more than top unit allowable may also receive transfer allowable, provided however, that no producing well in the project area which directly or diagonally offsets a well on another lease producing from the same common source of supply shall receive an allowable or produce in excess of two times top unit allowable for the pool. Each producing well shall be subject to the limiting gas-oil ratio (2,000 to 1) for the pool.

RULE 8. Each month the project operator shall submit to the Commission a Pressure Maintenance Project Operator's Report, on a form prescribed by the Commission, outlining thereon the data required, and requesting allowables for each of the several wells in the Project as well as the total project allowable based upon the pool's depth bracket allowable and the market demand percentage factor in effect. The aforesaid Pressure Maintenance Project Operator's Report shall be filed in lieu of Form C-120 for the Project.

RULE 9. The Commission shall, upon review of the report and after any adjustments deemed necessary, calculate the allowable for each well in the Project for the next succeeding month in accordance with these rules. The sum of the allowables so calculated shall be assigned to the Project and may be produced from the wells in the Project in any proportion except that no well in the Project which directly or diagonally offsets a well on another lease producing from the same common source of supply shall produce in excess of two times top unit allowable for the pool.

RULE 10. The Secretary-Director of the Commission is hereby authorized to approve such additional producing wells and injection wells at orthodox and unorthodox locations within the boundaries of the North Vacuum-Abo Unit Area as may be necessary to complete an efficient production and injection pattern, provided said wells are drilled no closer than 660 feet to the outer boundary of said unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary. To obtain such approval, the project operator shall file proper application with the Commission, which application, if it seeks authorization to convert additional wells to injection or to drill additional production or injection wells shall include the following:

(1) A plat showing the location of proposed well, all wells within the project area, and offset operators, locating wells which offset the project area.

(2) A schematic drawing of the proposed well which fully describes the casing, tubing, perforated interval, and depth.

(3) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.

The Secretary-Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval, provided waivers of objection are received from all offset operators.

Expansion of the project area may be approved by the Secretary-Director of the Commission administratively when good cause is shown therefor.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

S E A L

A. L. PORTER, Jr., Member & Secretary

dr/

EXHIBIT "A"
DATA SHEET

APPLICATION FOR EXCEPTION TO RULE 303(a) NEW MEXICO OIL CONSERVATION COMMISSION'S RULES & REGULATIONS ALLOWING DOWNHOLE COMMINGLING OF DUALLY COMPLETED OIL WELLS BY ADMINISTRATIVE PROCEDURE (ORDER NO. R-3845)

1. Lease Name Bridges State 601,602, 109, 116, 119, and 204

2. Well No. 601, 602, 109, 116, 119, 204

3. Well Location: Unit ____, _____ feet from _____ line,
SEE PLATS
_____ feet from _____ line of Section _____,
Township _____ Range _____, Lea County,
New Mexico

4. Upper Zone Glorieta

5. Completion Interval (NVAU log) Glorieta 5923-6303

6. Lower Zone Blinebry

7. Completion Interval (NVAU Log) Blinebry 6303-7300

8. Current Productivity Test Summary

	Vacuum Glorieta (Upper Zone)	Vacuum Blinebry (Lower Zone)
Producing Method	Proposed Valves water injection	water injection
Oil Bbl./day	------	---------
Gas Mcf/day	------	---------
Water Bbl/day	800	200
GOR	------	---------
GOR Limit	------	---------

* 9. Bottom-hole Pressure of Upper Zone 400 PSI (Vacuum Glorieta)

* 10. Bottom-hole Pressure of Lower Zone 550 PSI (Vacuum Blinebry

11. Fluid Characteristics of Each Zone
Glorieta 36-38° API OIL
Blinebry 36-38° API Oil

* Estimated by static fluid level

EXHIBIT "B"

COMPUTATION OF RELATIVE
VALUES OF THE HYDROCARBON
PRODUCTIVE BEFORE AND
AFTER DOWNHOLE COMMINGLING
(STATEWIDE RULE 303-C-2-H)

Lease and Well No. Bridges State #601, 602, 109, 116, 119, and 204

	UPPER POOL PROPOSED	LOWER POOL	COMMINGLED
Pool Name	Vacuum Glorieta	Vacuum Blinebry	Glorieta/Blinebry
Gravity, API			
Selling price/BBL.			
Daily Producint/BBL.			
Daily Income			

TOTAL DAILY INCOME (POOLS SEPARATED) _____

Net difference realized from downhole commingling based on current well test= _____ gain.

REMARKS: DESCRIPTION OF OPERATION:

Injection in the Vacuum Glorieta and Vacuum Blinebry will be performed using one tubing string. The combined injection rate will be regulated at the surface. There will be no downhole equipment to regulate injection per zone. See attached sketch for proposed operation.

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025020260001	MOBIL	BRIDGES-ST	1	T017S	R034E	S13	4900	P&A	19360731
30025020260000	MOBIL	BRIDGES-ST	1	T017S	R034E	S13	4900	P&A	19290822
30025220520000	MOBIL	BRIDGES-ST	107	T017S	R034E	S13	4750	OIL	19670401
30025239790000	MOBIL	BRIDGES-ST	169	T017S	R034E	S13	8800	INJ	19720306
30025020190000	MOBIL	BRIDGES-ST	45	T017S	R034E	S13	4673	P&A	19391012
30025292600000	MOBIL	BRIDGES-ST	502	T017S	R034E	S13	4800	OIL	19850813
30025295630000	MOBIL	BRIDGES-ST	506	T017S	R034E	S13 S	12505	OIL	19860326
30025297200000	MOBIL	BRIDGES-ST	513	T017S	R034E	S13 S	11550	OIL	19861202
30025020210000	MOBIL	BRIDGES-ST	59	T017S	R034E	S13	4670	P&A	19400426
30025020220000	MOBIL	BRIDGES-ST	63	T017S	R034E	S13	4675	INJ	19400524
30025020230000	MOBIL	BRIDGES-ST	69	T017S	R034E	S13	4670	OIL	19400620
30025020240000	MOBIL	BRIDGES-ST	73	T017S	R034E	S13	4716	P&A	19400821
30025020250000	MOBIL	BRIDGES-ST	80	T017S	R034E	S13	4716	P&A	19551201
30025020170000	MOBIL	BRIDGES-ST	9	T017S	R034E	S13	4682	OIL	19380714
30025020180000	MOBIL	BRIDGES-ST	WI24	T017S	R034E	S13	4700	INJ	19390210
30025020200000	MOBIL	BRIDGES-ST	WI46	T017S	R034E	S13	4700	INJ	19391116
30025221000000	MOBIL	NVAU	120	T017S	R034E	S13	10400	2 OIL	19670711
30025221010000	MOBIL	NVAU	121	T017S	R034E	S13	10550	INJ	19670901
30025235580000	MOBIL	NVAU	147	T017S	R034E	S13	11775	INJ	19701023
30025236930000	MOBIL	NVAU	152	T017S	R034E	S13	8700	INJ	19710404
30025237530000	MOBIL	NVAU	165	T017S	R034E	S13	10600	2 OIL	19710608
30025246120000	MOBIL	NVAU	219	T017S	R034E	S13	8650	INJ	19740207
30025250980000	MOBIL	NVAU	223	T017S	R034E	S13	8750	OIL	19750926
30025287350000	MOBIL	NVAU	252	T017S	R034E	S13	8700	OIL	19840819
30025287360000	MOBIL	NVAU	253	T017S	R034E	S13	8700	OIL	19840911
30025287240000	MOBIL	NVAU	254	T017S	R034E	S13	9100	OIL	19840724
30025287370000	MOBIL	NVAU	255	T017S	R034E	S13	8700	OIL	19840905
30025287390000	MOBIL	NVAU	257	T017S	R034E	S13	9100	OIL	19840813
30025287400000	MOBIL	NVAU	258	T017S	R034E	S13	8706	OIL	19840816
30025298210000	MOBIL	NVAU	260	T017S	R034E	S13	8700	OIL	19840914
30025307220000	QUESTA O&	NEW MEXICO	5	T017S	R034E	S13 S	4700+-	OIL	NONE @ 4/90
30025223440000	MOBIL	NVAU	230	T017S	R034E	S13	10600	2 OIL	19680265
30025238640000	MOBIL	NVAU	231	T017S	R034E	S13	8800	OIL	19711012
30025020270000	TEXACO	STATE W NC	1	T017S	R034E	S13	4680	OIL	19381228
30025020280000	TEXACO	STATE W NC	2	T017S	R034E	S13	4700	OIL	19400814
30025223860000	MOBIL	BRIDGES-ST	124	T017S	R034E	S14	10565	INJ	19680321
30025223870001	MOBIL	BRIDGES-ST	125	T017S	R034E	S14	11890	GAS-WO	19720107
30025234060000	MOBIL	BRIDGES-ST	133	T017S	R034E	S14	12215	GAS	19700303
30025235610000	MOBIL	BRIDGES-ST	14	T017S	R034E	S14	8750	OIL	19730903
30025237800000	MOBIL	BRIDGES-ST	170	T017S	R034E	S14	8800	OIL	19720229
30025240250000	MOBIL	BRIDGES-ST	173	T017S	R034E	S14	8750	OIL	19720327
30025243250000	MOBIL	BRIDGES-ST	175	T017S	R034E	S14	8750	INJ	19720113
30025020290000	MOBIL	BRIDGES-ST	2	T017S	R034E	S14	4593	P&A	19370925
30025020300000	MOBIL	BRIDGES-ST	34	T017S	R034E	S14	4650	OIL	19390703
30025020310000	MOBIL	BRIDGES-ST	37	T017S	R034E	S14	4642	INJ	19390805
30025292590000	MOBIL	BRIDGES-ST	501	T017S	R034E	S14	4800	OIL	19850708
30025020320000	MOBIL	BRIDGES-ST	54	T017S	R034E	S14	4660	OIL	19400305

ILLEGIBLE

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025020340000	MOBIL	BRIDGES-ST	56	T017S	R034E	S14	4670	OIL	19400408
30025020360000	MOBIL	BRIDGES-ST	61	T017S	R034E	S14	4674	P&A	19400504
30025020370000	MOBIL	BRIDGES-ST	62	T017S	R034E	S14	4700	INJ	19400506
30025020380000	MOBIL	BRIDGES-ST	64	T017S	R034E	S14	4664	INJ	19400618
30025020390000	MOBIL	BRIDGES-ST	65	T017S	R034E	S14	4660	INJ	19400529
30025020400000	MOBIL	BRIDGES-ST	66	T017S	R034E	S14	4740	P&A	19400627
30025020410000	MOBIL	BRIDGES-ST	67	T017S	R034E	S14	4738	OIL	19400719
30025020430000	MOBIL	BRIDGES-ST	70	T017S	R034E	S14	4732	P&A	19400725
30025020440000	MOBIL	BRIDGES-ST	71	T017S	R034E	S14	4739	P&A	19400729
30025020320000	MOBIL	BRIDGES-ST	WI40	T017S	R034E	S14	4725	INJ	19390913
30025235410000	MOBIL	NVAU	139	T017S	R034E	S14	8750	INJ	19700808
30025235660000	MOBIL	NVAU	142	T017S	R034E	S14	8700	INJ	19700927
30025236460000	MOBIL	NVAU	146	T017S	R034E	S14	8700	INJ	19701220
30025239860000	MOBIL	NVAU	171	T017S	R034E	S14	8700	INJ	19720124
30025020350000	MOBIL	NVAU	175	T017S	R034E	S14	4660	INJ	19400509
30025287380000	MOBIL	NVAU	256	T017S	R034E	S14	8700	OIL	19840920
30025288300000	MOBIL	NVAU	259	T017S	R034E	S14	8700	OIL	19840926
30025290240000	MOBIL	NVAU	275	T017S	R034E	S14	8800	OIL	19850115
30025292390000	MOBIL	NVAU	282	T017S	R034E	S14	8800	OIL	19850731
30025292400000	MOBIL	NVAU	283	T017S	R034E	S14	8800	OIL	19851003
30025292410000	MOBIL	NVAU	284	T017S	R034E	S14	8800	OIL	19850909
30025292420000	MOBIL	NVAU	285	T017S	R034E	S14	8800	OIL	19851029
30025296070000	MOBIL	NVAU	297	T017S	R034E	S14	8800	OIL	19860527
30025020700000	AMERADA H	STATE VA	1	T017S	R034E	S23	4740	P&A	19380414
30025020710000	AMERADA H	STATE VA	2	T017S	R034E	S23	4671	P&A	19380603
30025020720000	AMERADA H	STATE VA	3	T017S	R034E	S23	4662	P&A	19380806
30025222650000	AMERADA H	STATE VA	WI6	T017S	R034E	S23	4700	P&A	19671024
30025020770000	MOBIL	BRIDGES-ST	10	T017S	R034E	S23	4676	OIL	19380712
30025218280000	MOBIL	BRIDGES-ST	117	T017S	R034E	S23	10414	INJ	19660927
30025229420000	MOBIL	BRIDGES-ST	128	T017S	R034E	S23	8580	INJ	19690205
30025236580000	MOBIL	BRIDGES-ST	151	T017S	R034E	S23	12180	INJ	19710321
30025290100000	MOBIL	BRIDGES-ST	189	T017S	R034E	S23	4750	OIL	19841217
30025290110000	MOBIL	BRIDGES-ST	190	T017S	R034E	S23	4750	OIL	19850107
30025290120000	MOBIL	BRIDGES-ST	191	T017S	R034E	S23	4800	OIL	19841231
30025290130000	MOBIL	BRIDGES-ST	192	T017S	R034E	S23	4761	OIL	19850110
30025291600000	MOBIL	BRIDGES-ST	193	T017S	R034E	S23	4800	OIL	19850422
30025291610000	MOBIL	BRIDGES-ST	194	T017S	R034E	S23	4800	OIL	19850507
30025291620000	MOBIL	BRIDGES-ST	195	T017S	R034E	S23	4800	P&A	19850520
30025291700000	MOBIL	BRIDGES-ST	199	T017S	R034E	S23	4800	OIL	19850606
30025020730001	MOBIL	BRIDGES-ST	3	T017S	R034E	S23	4608	INJ	19400516
30025020730000	MOBIL	BRIDGES-ST	3	T017S	R034E	S23	4551	INJ	19380206
30025020790000	MOBIL	BRIDGES-ST	31	T017S	R034E	S23	4650	INJ	19390526
30025020800000	MOBIL	BRIDGES-ST	41	T017S	R034E	S23	4720	OIL	19390913
30025292580000	MOBIL	BRIDGES-ST	500	T017S	R034E	S23	4800	OIL	19850708
30025020820000	MOBIL	BRIDGES-ST	53	T017S	R034E	S23	4605	OIL	19400227
30025020830000	MOBIL	BRIDGES-ST	55	T017S	R034E	S23	4625	OIL	19400306
30025020840000	MOBIL	BRIDGES-ST	57	T017S	R034E	S23	4700	OIL	19400408

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API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025020740000	MOBIL	BRIDGES-ST	6	T017S	R034E	S23	4755	OBSERV	19380717
30025020760000	MOBIL	BRIDGES-ST	8	T017S	R034E	S23	4740	OIL	19380608
30025296750000	MOBIL	BRIDGES-ST	WD-511	T017S	R034E	S23 S	5650	SWD	19860909
30025020780000	MOBIL	BRIDGES-ST	WI21	T017S	R034E	S23	4660	INJ	19390102
30025020810000	MOBIL	BRIDGES-ST	WI43	T017S	R034E	S23	4610	INJ	19391014
30025020750000	MOBIL	BRIDGES-ST	WI7	T017S	R034E	S23	4700	INJ	19380608
30025231000000	MOBIL	NVAU	129	T017S	R034E	S23	8600	INJ	19690608
30025236950000	MOBIL	NVAU	155	T017S	R034E	S23	8700	INJ	19710416
30025236960000	MOBIL	NVAU	156	T017S	R034E	S23	8750	INJ	19710430
30025239820000	MOBIL	NVAU	213	T017S	R034E	S23	8800	INJ	19720114
30025283140000	MOBIL	NVAU	234	T017S	R034E	S23	8700	OIL	19840214
30025286030000	MOBIL	NVAU	244	T017S	R034E	S23	8700	OIL	19840522
30025286040000	MOBIL	NVAU	245	T017S	R034E	S23	8711	OIL	19840613
30025292350000	MOBIL	NVAU	278	T017S	R034E	S23	8800	OIL	19850828
30025292360000	MOBIL	NVAU	279	T017S	R034E	S23	8792	OIL	19850920
30025292370000	MOBIL	NVAU	280	T017S	R034E	S23	8800	OIL	19851008
30025292380000	MOBIL	NVAU	281	T017S	R034E	S23	8800	OIL	19850708
30025295600000	MOBIL	NVAU	294	T017S	R034E	S23 N	8808	OIL	19860423
30025240440000	MOBIL	NVAU	210	T017S	R034E	S23	8800	INJ	19720320
30025206730000	DRILLING	STATE E	3	T017S	R034E	S24	7014	INJ	19640611
30025218300000	MOBIL	BRIDGES-ST	113	T017S	R034E	S24	6225	OIL	19660925
30025218660000	MOBIL	BRIDGES-ST	114	T017S	R034E	S24	6210	OIL	19660930
30025218080000	MOBIL	BRIDGES-ST	116	T017S	R034E	S24	10436	INJ	19660822
30025220010000	MOBIL	BRIDGES-ST	119	T017S	R034E	S24	12391	INJ	19670330
30025020880000	MOBIL	BRIDGES-ST	18	T017S	R034E	S24	4700	OIL	19381122
30025020890000	MOBIL	BRIDGES-ST	19	T017S	R034E	S24	4700	OIL	19381130
30025291630000	MOBIL	BRIDGES-ST	196	T017S	R034E	S24	4800	OIL	19850528
30025291670000	MOBIL	BRIDGES-ST	197	T017S	R034E	S24	4800	OIL	19850530
30025291690000	MOBIL	BRIDGES-ST	198	T017S	R034E	S24	4800	OIL	19850618
30025020900000	MOBIL	BRIDGES-ST	20	T017S	R034E	S24	4690	INJ	19381228
30025020910000	MOBIL	BRIDGES-ST	22	T017S	R034E	S24	4700	OIL	19390118
30025020920000	MOBIL	BRIDGES-ST	23	T017S	R034E	S24	4700	OIL	19390204
30025020930000	MOBIL	BRIDGES-ST	47	T017S	R034E	S24	4680	INJ	19391115
30025020940001	MOBIL	BRIDGES-ST	58	T017S	R034E	S24	6800	OIL	19631128
30025226300000	MOBIL	BRIDGES-ST	WI127	T017S	R034E	S24	4850	INJ	19680715
30025221060000	MOBIL	NVAU	204	T017S	R034E	S24	10360	INJ	19670706
30025221050000	MOBIL	NVAU	205	T017S	R034E	S24	10401	INJ	19670822
30025227600000	MOBIL	NVAU	207	T017S	R034E	S24	8653	INJ	19681025
30025227120000	MOBIL	NVAU	211	T017S	R034E	S24	10133	OIL	19681207
30025248510000	MOBIL	NVAU	222	T017S	R034E	S24	8660	OIL	19750210
30025283150000	MOBIL	NVAU	235	T017S	R034E	S24	8675	OIL	19840130
30025283150000	MOBIL	NVAU	238	T017S	R034E	S24	5000	I&A	19831028
30025284660000	MOBIL	NVAU	238Y	T017S	R034E	S24	8700	OIL	19831227
30025285870000	MOBIL	NVAU	246	T017S	R034E	S24	8700	OIL	19840503
30025286270000	MOBIL	NVAU	247	T017S	R034E	S24	8710	OIL	19840521
30025286180000	MOBIL	NVAU	248	T017S	R034E	S24	8700	OIL	19840612
30025287230000	MOBIL	NVAU	250	T017S	R034E	S24	9100	OIL	19840801

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30025287340000	MOBIL	NVAU	251	T017S	R034E	S24	8710	OIL	19840814
30025020990000	MOBIL	SANTA FE-S	WI10	T017S	R034E	S24	4706	INJ	19381107
30025020960000	MOBIL	STATE 6	1	T017S	R034E	S24	4905	OIL	19370525
30025020970000	MOBIL	STATE 6	2	T017S	R034E	S24	4750	OIL	19381214
30025020980000	MOBIL	STATE 6	3	T017S	R034E	S24	4726	INJ	19391222
30025216170000	MOBIL	STATE-BRID	109	T017S	R034E	S24	12470	INJ	19660502
30025268580000	PHILLIPS	E VU(GR-S A	WI-2	T017S	R034E	S24	4800	W-INJ	19820601
30025274190000	PHILLIPS	E VU(GB-S	3	T017S	R034E	S24	4800	OIL	19820314
30025273370000	PHILLIPS	E VU(GB-S	WI-2	T017S	R034E	S24	4800	W-INJ	19820220
30025273310000	PHILLIPS	E VUM(GB-S	3	T017S	R034E	S24	4800	OIL	19820123
30025224000000	SHELL OIL	STATE	2	T017S	R034E	S24	10200	OIL	19680327
30025020950000	SHELL OIL	STATE C	1	T017S	R034E	S24	4733	OIL-P&A	19390331
30025020850000	SINCLAIR	STATE C-DE	1	T017S	R034E	S24	4665	OIL	19390614
30025020860000	SINCLAIR	STATE E-DE	1	T017S	R034E	S24	4675	OIL	19390724
30025020870000	SINCLAIR	STATE E-DE	2	T017S	R034E	S24	4685	OIL	19391026
30025021070000	MARATHON	MCCALLISTE	1	T017S	R034E	S25	4680	OIL	19380709
30025021080000	MARATHON	MCCALLISTE	2	T017S	R034E	S25	4700	OIL	19380817
30025021090000	MARATHON	MCCALLISTE	3	T017S	R034E	S25	4690	OIL	19381223
30025021100000	MARATHON	MCCALLISTE	4	T017S	R034E	S25	4710	OIL	19390128
30025200500000	MARATHON	MCCALLISTE	8	T017S	R034E	S25	6800	OIL	19630620
30025201430000	MARATHON	MCCALLISTE	9	T017S	R034E	S25	6800	OIL	19630714
30025201150000	MARATHON	STATE MCCA	7	T017S	R034E	S25	12125	2 OIL	19630910
30025202490000	MARATHON	STATE-MCCA	10	T017S	R034E	S25	6800	2 OIL	19631215
30025201160000	MARATHON	STATE-MCCA	5	T017S	R034E	S25	12195	3 OIL	19630501
30025202350000	MARATHON	STATE-MCCA	6	T017S	R034E	S25	6800	2 OIL	19630605
30025210410000	MOBIL	BRIDGES-ST	102	T017S	R034E	S25	6200	OIL	19641207
30025021000001	MOBIL	BRIDGES-ST	11	T017S	R034E	S25	6800	P&A	19630210
30025228500000	MOBIL	BRIDGES-ST	115	T017S	R034E	S25	6242	P&A	19690103
30025021010001	MOBIL	BRIDGES-ST	13	T017S	R034E	S25	6800	OIL-WO	19630103
30025021020000	MOBIL	BRIDGES-ST	14	T017S	R034E	S25	4270	OIL	19381108
30025021040000	MOBIL	BRIDGES-ST	16	T017S	R034E	S25	4750	OIL	19381017
30025021050000	MOBIL	BRIDGES-ST	17	T017S	R034E	S25	4750	P&A	19381109
30025245690000	MOBIL	BRIDGES-ST	176	T017S	R034E	S25	4850	OIL	19740129
30025245710000	MOBIL	BRIDGES-ST	178	T017S	R034E	S25	4850	OIL	19740220
30025021030000	MOBIL	BRIDGES-ST	32	T017S	R034E	S25	4620	INJ	19390614
30025021060002	MOBIL	BRIDGES-ST	36	T017S	R034E	S25	6900	OIL	19710614
30025284260000	MOBIL	BRIDGES-ST	WI-185	T017S	R034E	S25	4900	INJ	19831221
30025284290000	MOBIL	BRIDGES-ST	WI-188	T017S	R034E	S25	4800	INJ	19840329
30025246050000	MOBIL	NVAU	218	T017S	R034E	S25	8600	INJ	19740123
30025275190000	MOBIL	NVAU	232	T017S	R034E	S25	8750	P&A	19820103
30025283160000	MOBIL	NVAU	236	T017S	R034E	S25	8700	OIL	19831114
30025285850000	MOBIL	NVAU	239	T017S	R034E	S25	8700	OIL	19840503
30025208730000	MOBIL	STATE-BRID	103	T017S	R034E	S25	6200	OIL	19650106
30025213620000	MOBIL	STATE-BRID	104	T017S	R034E	S25	10200	3 OIL	19650716
30025213640000	MOBIL	STATE-BRID	106	T017S	R034E	S25	6150	OIL	19650428
30025216410000	MOBIL	STATE-BRID	108	T017S	R034E	S25	10200	3 OIL	19660119
30025216490000	MOBIL	STATE-BRID	110	T017S	R034E	S25	6200	OIL	19660312

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30025216750000	MOBIL	STATE-BRID	111	T017S	R034E	S25	6190	OIL	19660402
30025217510000	MOBIL	STATE-BRID	112	T017S	R034E	S25	10230	INJ	19660623
30025084530000	SHELL OIL	LA SWIGART	1	T017S	R034E	S25	4700	OIL	19380913
30025202120000	SHELL OIL	SWIGART	2	T017S	R034E	S25	6900	OIL	19630221
30025216630001	TEXACO	CENTRAL VA	12	T017S	R034E	S25	4740	OIL-WO	19810620
30025301020000	TEXACO	CENTRAL VA	223	T017S	R034E	S25 N	4730	OIL	19880310
30025258100000	TEXACO	CENTRAL VA	WI-13	T017S	R034E	S25	4800	W-INJ	19790130
30025279650000	TEXACO	CENTRAL VA	WI-155	T017S	R034E	S25	4800	W-INJ	19821230
30025279660000	TEXACO	CENTRAL VA	WI-156	T017S	R034E	S25	4800	W-INJ	19821118
30025279670000	TEXACO	CENTRAL VA	WI-157	T017S	R034E	S25	4800	W-INJ	19821124
30025258130000	TEXACO	CENTRAL VA	WI-25	T017S	R034E	S25	4800	W-INJ	19780425
30025258140000	TEXACO	CENTRAL VA	WI-26	T017S	R034E	S25	4800	W-INJ	19780421
30025258150000	TEXACO	CENTRAL VA	WI-27	T017S	R034E	S25	4800	W-INJ	19780317
30025258160000	TEXACO	CENTRAL VA	WI-28	T017S	R034E	S25	4800	W-INJ	19780414
30025279130000	TEXACO	NEW MEXICO	10	T017S	R034E	S25	6100	OIL	19821024
30025272360000	TEXACO	NEW MEXICO	9	T017S	R034E	S25	6150	OIL	19810716
30025209510000	TEXACO	STATE OF N	2	T017S	R034E	S25	6800	OIL	19641024
30025202940000	TEXACO	STATE OF N	4	T017S	R034E	S25	12285	3 OIL	19631204
30025201720000	TEXACO	STATE OF N	5	T017S	R034E	S25	6850	2 OIL	19631023
30025209470000	TEXACO	STATE OF N	6	T017S	R034E	S25	6850	2 OIL	19640324
30025209490000	TEXACO	STATE OF N	8	T017S	R034E	S25	6850	2 OIL	19640923
30025021110000	TEXACO	STATE Q	1	T017S	R034E	S25	4725	OIL	19380721
30025021120000	TEXACO	STATE Q	2	T017S	R034E	S25	4750	OIL	19380629
30025021130000	TEXACO	STATE Q	3	T017S	R034E	S25	4725	OIL	19380930
30025021140000	TEXACO	STATE T	1	T017S	R034E	S25	4725	OIL	19390418
30025216630000	TEXACO	STT/NW MXC	3	T017S	R034E	S25	4740	OIL	19660405
30025209620000	TEXACO	TEXACO-MOB	1	T017S	R034E	S25	10300	3 OIL	19640818
30025209480000	TEXACO	TEXAS-SHEL	1	T017S	R034E	S25	10200	3 OIL	19640529
30025021170000	MOBIL	BRIDGES-ST	12	T017S	R034E	S26	4725	OIL	19380802
30025021180000	MOBIL	BRIDGES-ST	15	T017S	R034E	S26	4763	OIL	19380911
30025236940000	MOBIL	BRIDGES-ST	153	T017S	R034E	S26	8700	INJ	19710330
30025239590000	MOBIL	BRIDGES-ST	168	T017S	R034E	S26	4800	INJ	19720216
30025245700000	MOBIL	BRIDGES-ST	177	T017S	R034E	S26	4850	OIL	19740207
30025246320000	MOBIL	BRIDGES-ST	180	T017S	R034E	S26	4850	OIL	19740220
30025280010000	MOBIL	BRIDGES-ST	182	T017S	R034E	S26	4871	OIL	19830125
30025021200000	MOBIL	BRIDGES-ST	25	T017S	R034E	S26	4750	OIL	19390226
30025021210000	MOBIL	BRIDGES-ST	26	T017S	R034E	S26	4710	OIL	19390312
30025021220001	MOBIL	BRIDGES-ST	27	T017S	R034E	S26	7000	OIL	19821110
30025021230000	MOBIL	BRIDGES-ST	28	T017S	R034E	S26	4740	OIL	19390424
30025021190000	MOBIL	BRIDGES-ST	29	T017S	R034E	S26	4725	P&A	19390414
30025021240001	MOBIL	BRIDGES-ST	30	T017S	R034E	S26	6800	INJ	19821221
30025021250000	MOBIL	BRIDGES-ST	35	T017S	R034E	S26	4742	INJ	19390712
30025021260000	MOBIL	BRIDGES-ST	38	T017S	R034E	S26	4700	OIL	19390817
30025021270000	MOBIL	BRIDGES-ST	39	T017S	R034E	S26	4725	P&A	19390813
30025021150000	MOBIL	BRIDGES-ST	4	T017S	R034E	S26	4758	OIL	19380428
30025021160000	MOBIL	BRIDGES-ST	5	T017S	R034E	S26	4750	INJ	19380502
30025292620000	MOBIL	BRIDGES-ST	503	T017S	R034E	S26	4800	OIL	19850828

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30025292630000	MOBIL	BRIDGES-ST	504	T017S	R034E	S26	4800	OIL	19850818
30025296310000	MOBIL	BRIDGES-ST	507	T017S	R034E	S26 S	4800	OIL	19870501
30025021280000	MOBIL	BRIDGES-ST	95	T017S	R034E	S26	13816	3 OIL	19621219
30025200800000	MOBIL	BRIDGES-ST	96	T017S	R034E	S26	12150	3 OIL	19630322
30025200680000	MOBIL	BRIDGES-ST	97	T017S	R034E	S26	6750	OIL	19630120
30025203200000	MOBIL	BRIDGES-ST	98	T017S	R034E	S26	11660	2 OIL	19631215
30025201480000	MOBIL	BRIDGES-ST	99	T017S	R034E	S26	6750	2 OIL	19630912
30025284280000	MOBIL	BRIDGES-ST	WI-187	T017S	R034E	S26	4800	INJ	19840330
30025233940000	MOBIL	BRIDGES-ST	WI132	T017S	R034E	S26	4912	INJ	19700204
30025235260000	MOBIL	NVAU	118	T017S	R034E	S26	8700	INJ	19700715
30025234620000	MOBIL	NVAU	136	T017S	R034E	S26	8700	INJ	19700522
30025235270000	MOBIL	NVAU	137	T017S	R034E	S26	8700	INJ	19700722
30025235400000	MOBIL	NVAU	138	T017S	R034E	S26	8700	INJ	19700807
30025283170000	MOBIL	NVAU	237	T017S	R034E	S26	8700	OIL	19831229
30025286000000	MOBIL	NVAU	240	T017S	R034E	S26	8700	OIL	19840530
30025286010000	MOBIL	NVAU	241	T017S	R034E	S26	8700	OIL	19840704
30025386020000	MOBIL	NVAU	242	T017S	R034E	S26	8750	OIL	19840808
30025286020000	MOBIL	NVAU	242	T017S	R034E	S26	8700	OIL	19840808
30025285860000	MOBIL	NVAU	243	T017S	R034E	S26	8700	OIL	19840511
30025287220000	MOBIL	NVAU	249	T017S	R034E	S26	8720	OIL	19840828
30025294300000	MOBIL	NVAU	286	T017S	R034E	S26	8700	OIL	19851224
30025294310000	MOBIL	NVAU	287	T017S	R034E	S26	8800	OIL	19851231
30025213630000	MOBIL	STATE-BRID	105	T017S	R034E	S26	6150	INJ	19650422
30025127040000	MOBIL	STATE-BRID	33	T017S	R034E	S26	4735	OIL	19390607
30025028310000	BARNETT D	STATE B	1	T017S	R035E	S19	4783	D&A-	19490323
30025028340000	CROWN CEN	SHELL-STAT	2	T017S	R035E	S19	4816	OIL	19590708
30025028270000	CRUSADER	CITIES SER	2	T017S	R035E	S19	4756	OIL	19560311
30025238780000	HUMBLE OI	MEXICO-STA	4	T017S	R035E	S19	8739	OIL	19711022
30025207080000	HUMBLE OI	NEW MEXICO	3	T017S	R035E	S19	6280	OIL	19640911
30025240130000	HUMBLE OI	NEW MEXICO	5	T017S	R035E	S19	8740	OIL	19720225
30025028280000	HUMBLE OI	STATE J	1	T017S	R035E	S19	4725	OIL	19381014
30025028290000	HUMBLE OI	STATE J	2	T017S	R035E	S19	4765	OIL	19390201
30025028240000	JOSALINE	STATE C	1	T017S	R035E	S19	4705	OIL	19491013
30025028250000	JOSALINE	STATE C	2	T017S	R035E	S19	4686	OIL	19500521
30025028300000	MARATHON	STAPLIN-ST	1	T017S	R035E	S19	4700	OIL	19390814
30025237940000	MOBIL	NVAU	206	T017S	R035E	S19	8800	INJ	19710625
30025248500000	MOBIL	NVAU	221	T017S	R035E	S19	8720	OIL	19750115
30025028330000	MOBIL	STATE N	1	T017S	R035E	S19	4780	OIL	19381109
30025274210000	PHILLIPS	E V(GR-S A	1	T017S	R035E	S19	4800	OIL	19820831
30025274230000	PHILLIPS	E V(GR-S A	1	T017S	R035E	S19	4800	OIL	19820821
30025271130000	PHILLIPS	E V(GR-S A	2	T017S	R035E	S19	4800	OIL	19820409
30025268570000	PHILLIPS	E V(GR-S A	WI-3	T017S	R035E	S19	4800	W-INJ	19801229
30025271140000	PHILLIPS	E V(GR-S A	WI-2	T017S	R035E	S19	4800	W-INJ	19811024
30025273300000	PHILLIPS	E V(GR-S A	WI-3	T017S	R035E	S19	4800	W-INJ	19820917
30025273380000	PHILLIPS	E VCM(GBGS	WI-4	T017S	R035E	S19	4750	W-INJ	19820908
30025273390000	PHILLIPS	E VCM(GBSA	WI-4	T017S	R035E	S19	4800	W-INJ	19820812
30025273400000	PHILLIPS	E VCU(GB-S	WI-2	T017S	R035E	S19	4800	W-INJ	19811020

ILLEGIBLE

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025265680000	PHILLIPS	E VM GBG S	3	T017S	R035E	S19	4900	OIL	19800507
30025273410000	PHILLIPS	E VM(GBG-S	WI-2	T017S	R035E	S19	4800	W-INJ	19820313
30025274220000	PHILLIPS	E VU(GB-S	3	T017S	R035E	S19	4800	OIL	19820528
30025273290000	PHILLIPS	E VU(GB-S	WI-4	T017S	R035E	S19	4805	W-INJ	19811003
30025274200000	PHILLIPS	EAST VACUU	3	T017S	R035E	S19	4800	OIL	19820328
30025240800000	PHILLIPS	SANTA FE	122	T017S	R035E	S19	9000	OIL	19720519
30025028320000	PHILLIPS	SANTA FE	56	T017S	R035E	S19	4880	OIL	19600829
30025240510000	SHELL OIL	STATE /K/	3	T017S	R035E	S19	8900	OIL	19720410
30025240450000	SHELL OIL	STATE /VB/	1	T017S	R035E	S19	8975	OIL	19720318
30025028230000	SHELL OIL	STATE K	1	T017S	R035E	S19	4686	OIL	19490216
30025240280000	SHELL OIL	STATE K	1	T017S	R035E	S19	8900	OIL	19720221
30025028260000	SINCLAIR	STATE J DE	1	T017S	R035E	S19	4700	OIL	19400622
30025029390000	JOSALINE	STATE E	1	T017S	R035E	S30	4666	OIL	19500111
30025029410000	MARATHON	STAPLIN-ST	1	T017S	R035E	S30	4702	OIL	19380417
30025029420000	MARATHON	STAPLIN-ST	2	T017S	R035E	S30	4710	OIL	19390320
30025219070000	MARATHON	STAPLIN-ST	5	T017S	R035E	S30	4750	OIL	19670101
30025210090000	MARATHON	STATE-STAP	3	T017S	R035E	S30	6150	OIL	19640605
30025207460000	MARATHON	STATE-STAP	4	T017S	R035E	S30	6150	OIL	19640702
30025256740000	PENROC OI	STATE /AR/	1	T017S	R035E	S30	8800	OIL	19780110
30025238010000	PHILLIPS	SANTA FE	120	T017S	R035E	S30	4750	OIL	19710722
30025085450000	PHILLIPS	SANTA FE	2	T017S	R035E	S30	4685	OIL	19380601
30025029430000	PHILLIPS	SANTA FE	25	T017S	R035E	S30	4667	OIL	19390225
30025207940000	PHILLIPS	SANTA FE-S	100	T017S	R035E	S30	6200	OIL	19640826
30025207950000	PHILLIPS	SANTA FE-S	101	T017S	R035E	S30	6200	OIL	19640907
30025029440000	SHELL OIL	STATE B	1	T017S	R035E	S30	4700	OIL	19391010
30025085300000	SHELL OIL	STATE B	2	T017S	R035E	S30	4735	OIL	19381209
30025208210000	SHELL OIL	STATE B	3	T017S	R035E	S30	7100	OIL	19640401
30025208220000	SHELL OIL	STATE B	4	T017S	R035E	S30	6200	OIL	19640908
30025208270000	SHELL OIL	STATE I	3	T017S	R035E	S30	6300	D&A	19640519
30025213530000	SINCLAIR	STATE	2	T017S	R035E	S30	6250	OIL	19651001
30025213520000	SINCLAIR	STATE	3	T017S	R035E	S30	10200	2 OIL	19650528
30025029510000	SINCLAIR	STATE B-15	1	T017S	R035E	S30	4728	OIL	19390102
30025029520000	SINCLAIR	STATE B-15	2	T017S	R035E	S30	4724	OIL	19400506
30025029400000	SINCLAIR	STATE L DE	1	T017S	R035E	S30	4605	OIL	19400818
30025258170000	TEXACO	CENT VACUU	WI-300	T017S	R035E	S30	4800	W-INJ	19780505
30025219070001	TEXACO	CENTRAL VA	19	T017S	R035E	S30	4750	OIL-WO	19830615
30025085450001	TEXACO	CENTRAL VA	33	T017S	R035E	S30	4705	OIL-WO	19830623
30025290340000	TEXACO	CENTRAL VA	9	T017S	R035E	S30	4710	OIL	19850807
30025258110000	TEXACO	CENTRAL VA	WI-14	T017S	R035E	S30	4870	W-INJ	19780511
30025267920000	TEXACO	CENTRAL VA	WI-148	T017S	R035E	S30	4800	W-INJ	19801208
30025267930000	TEXACO	CENTRAL VA	WI-149	T017S	R035E	S30	4800	W-INJ	19801211
30025258120000	TEXACO	CENTRAL VA	WI-15	T017S	R035E	S30	4813	W-INJ	19780428
30025267940000	TEXACO	CENTRAL VA	WI-150	T017S	R035E	S30	4800	W-INJ	19801224
30025267950000	TEXACO	CENTRAL VC	WI-151	T017S	R035E	S30	1918	J&A	19801224
30025272350000	TEXACO	CENTRAL VA	WI-154	T017S	R035E	S30	4800	W-INJ	19810608
30025257930000	TEXACO	CENTRAL VA	WI-16	T017S	R035E	S30	4870	W-INJ	19780510
30025257940000	TEXACO	CENTRAL VA	WI-29	T017S	R035E	S30	4800	W-INJ	19780419

ILLEGIBLE

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

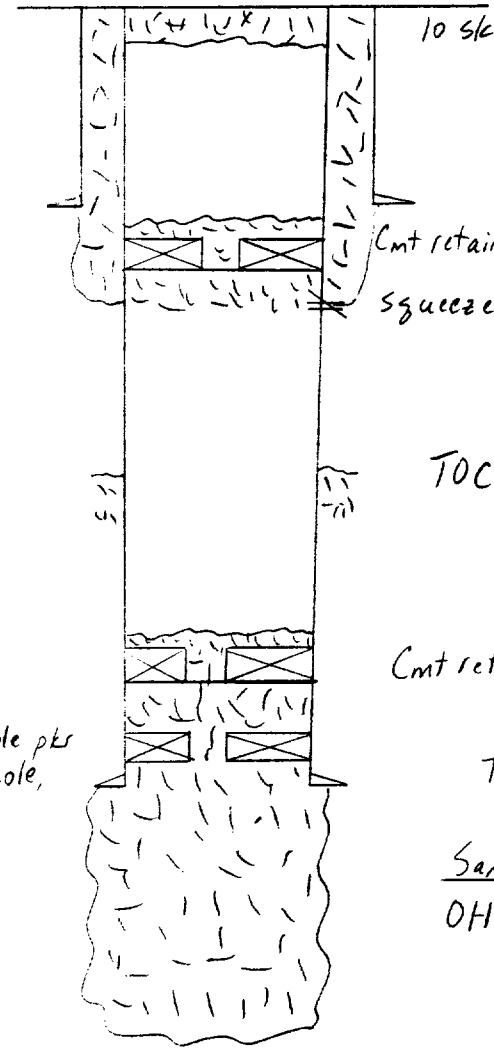
API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025257950000	TEXACO	CENTRAL VA	WI-31	T017S	R035E	S30	4800	W-INJ	19780314
30025258080000	TEXACO	CENTRAL VA	WI-5	T017S	R035E	S30	4800	W-INJ	19790306
30025258090000	TEXACO	CENTRAL VA	WI-6	T017S	R035E	S30	4830	W-INJ	19790308
30025257920000	TEXACO	CENTRAL VA	WI-7	T017S	R035E	S30	4800	W-INJ	19790105
30025029490000	TEXACO	STATE CG	1	T017S	R035E	S30	4700	OIL	19590302
30025029450000	TEXACO	STATE N	1	T017S	R035E	S30	4850	OIL	19381020
30025029460000	TEXACO	STATE N	2	T017S	R035E	S30	4720	OIL	19381121
30025029470000	TEXACO	STATE N	3	T017S	R035E	S30	4750	OIL	19390522
30025029480000	TEXACO	STATE N	4	T017S	R035E	S30	4750	OIL	19390731
30025238540000	TEXACO	STATE N	9	T017S	R035E	S30	6250	OIL	19711014
30025209580000	TEXACO	STATE OF N	2	T017S	R035E	S30	6250	OIL	19640624
30025209410000	TEXACO	STATE OF N	5	T017S	R035E	S30	6863	OIL	19640414
30025209420000	TEXACO	STATE OF N	6	T017S	R035E	S30	10300	3 OIL	19640713
30025209430000	TEXACO	STATE OF N	7	T017S	R035E	S30	6850	OIL	19640607
30025209440000	TEXACO	STATE OF N	8	T017S	R035E	S30	10300	OIL	19641121
30025029500000	TWIN OIL	STATE D	1	T017S	R035E	S30	4700	OIL	19390427

ILLEGIBLE

P&A'D WELLS WITHIN 1/2 MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #17
Unit A Sec 25 T17S R34E

PRESENT



10 sks surface cmt plug, 0-20'

10 3/4" 40 lb/ft csg set to 825' w/225 sks, cmt circ

Cmt retainer @ 940'

Squeeze holes @ 1000', circ w/250sks + 10 sks on retainer

TOC @ 2664' (calc)

Cmt retainer set @ 3988', squeezed OH w/200sks + 6sks on retainer

Retrievable pkr left in hole, 4170' or deeper

7" 24 lb/ft csg set to 4200' w/ 210 sks

San Andres Perfs
OH 4200-4748'

Mobil P & A'd: 2-3-78

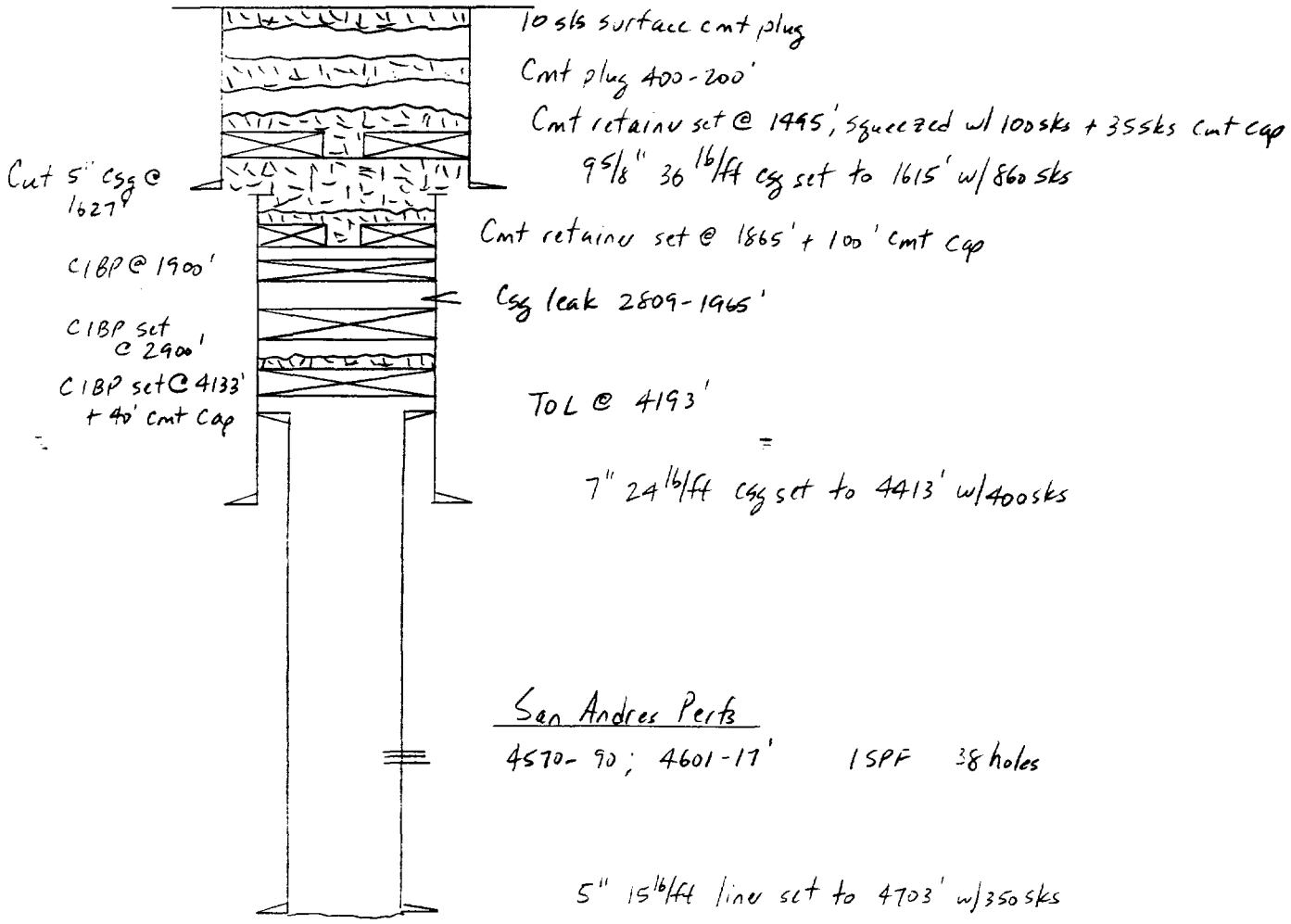
TD: 4753'
PBTD: 4748'

DGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Santa Fe #10 WIW
Unit C Sec 24 T17S R34E
660' FNL & 1980' FWL

PRESENT



TD: 4706'
PBTD: 4701'

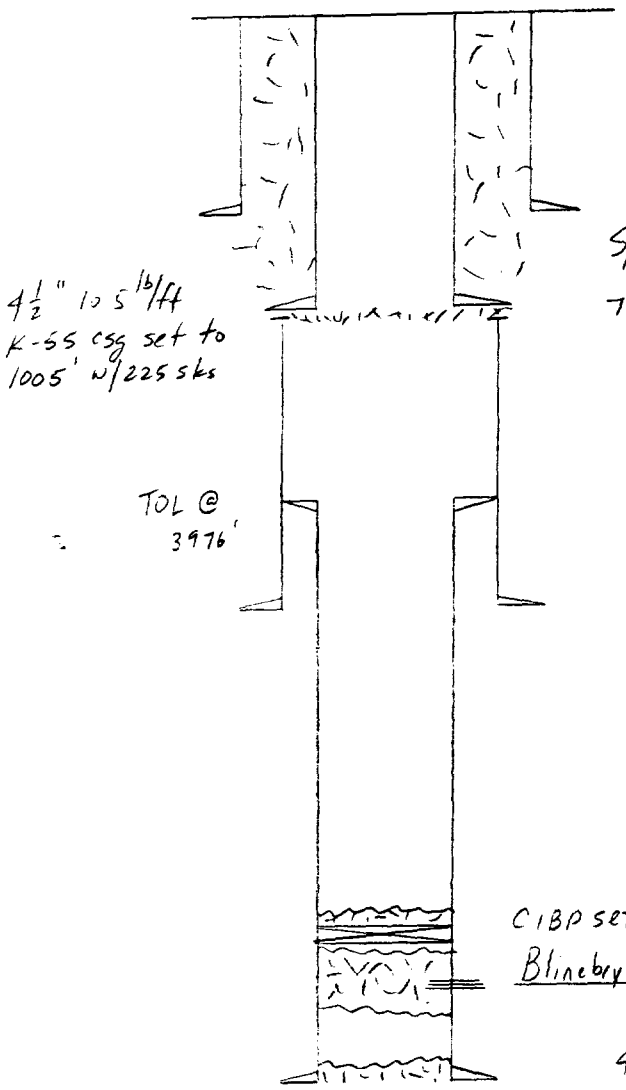
Mobil P&A'd. 3-6-89

AGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #11
1980' FNL & 1978.5' FWL
Unit F Sec 25 T17S R34E Lea County, NM

PRESENT



TD: 6800'
PBTD: 6770'

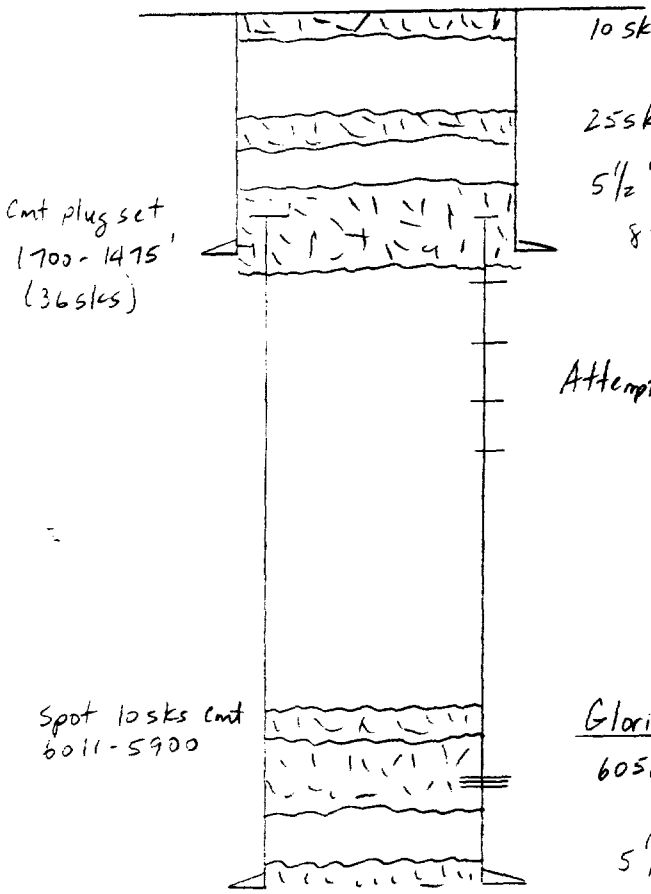
Mobil P&A'd: 1-17-75
Texaco Centrifuge: 2-3-78
(completed as monitor well w/valve + gauge yet no perfs - completion requested by OCD)

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #115
900' FNL & 990' FEL
Unit A Sec 25 T11S R34E

PRESENT



TD: 6242'
PBTD: 6199'

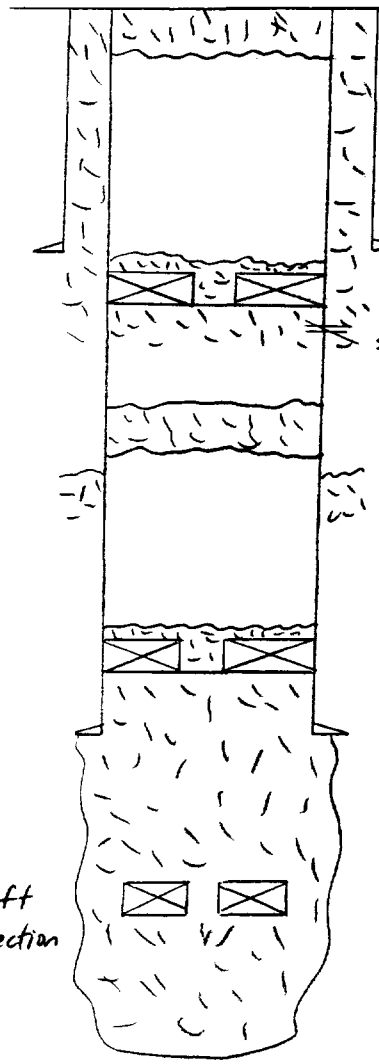
P&A'd: 2-19-80

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #66 WIW
Unit E Sec 14 T17S R34E

PRESENT



10sks surface plug

10 3/4" csg set to 821' w/225 sks, cmt circ (12 1/4" hole)

squeeze holes @ 1000' + retainer @ 940', circ w/330sks + cmt cap

Cmt plug (10sks) spot 2800-2700'
Calc TOC @ 2937'

Cmt retainer set @ 4180', squeezed OH w/140sks + 5sk cap

5 1/2" csg set to 4365' w/225 sks (7 7/8" hole)

San Andres Perfs
OH 4365- 4740'

Perm pkr left in OH section

TD: 4740'
PBTD: 4696'

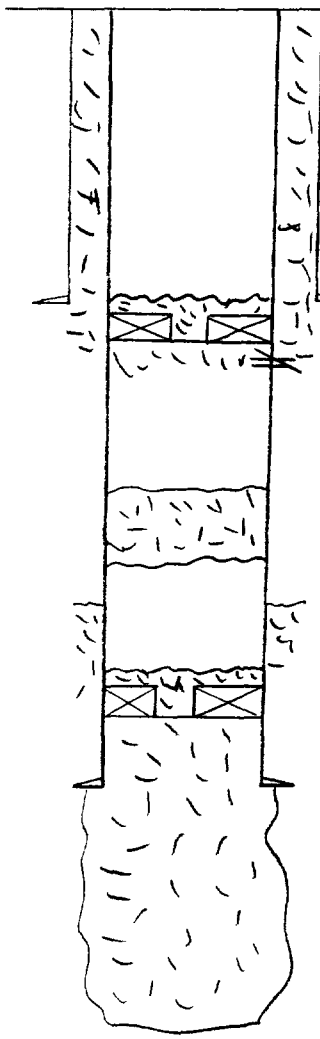
Mobil P&A'd: 2-15-78

DGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #73.
Unit G Sec 13 T17S R34E

PRESENT



10 3/4" csg set to 827' w/250sks

Squeeze holes @ 1000', cmt ret @ 930', circ w/335 sks + 5sks cap

Cmt plug (15sks) 2825-2680'

Calc TOC @ ± 3100'

Cmt retainer set @ 4183', squeezed OH w/140sks + 5sk cap

5 1/2" csg set to 4393' w/210 sks

San Andres Perfs
OH 4393-4763'

Mobil P&A'd: 2-22-78

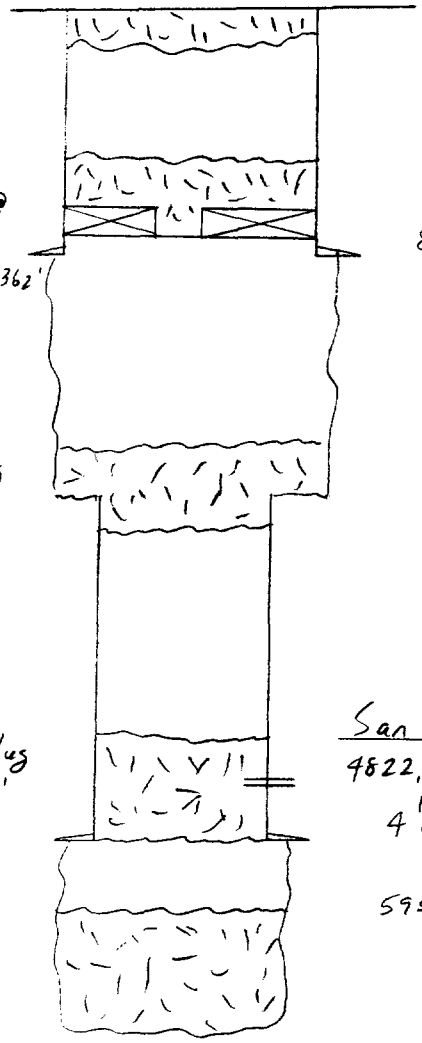
TD: 4763'
PBTD: 4732'

DGE
6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

HARDIN-HOUSTON INC (FORMALLY EXXON)
New Mexico State J#3
330' FSL & 330' FWL
Unit M Sec 19 T17S R 35E

PRESENT



10 sk surface cmt plug

cmt retainer @ 1680' + 100sk cmt plug 1680 - 1362'

8 5/8" csg set to 1689' w/ 850 sks, cmt circ (12 1/4" hole)

50sk cmt plug 3100 - 2870'

TOC by temp survey @ 3000', cut 4 1/2" csg @ 3000'

San Andres Perfs
4822, 24, 26, 27'

50 sk cmt plug 4952 - 4350'

4 1/2" csg set to 4952' w/ 350 sks (7 7/8" hole)

5950' - PBTD

TD: 6280'

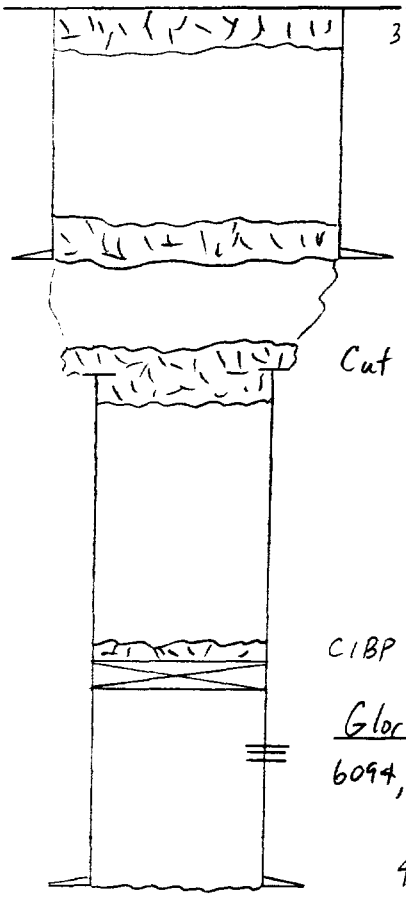
Initial P&A: 2-4-65
Hardin-Houston P&A: 3-3-81
(re-entered to dissolve salt to produce brine for sale)

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

TEXACO
State N #9
980' FNL & 913' FWL
Unit D Sec 30 T17S R35E

PRESENT



35 sks surface plug

8 5/8" 24 lb/ft csg set to 1650', cmt w/ 700 sks, cmt circ
35 sk cmt plug 1650 - 1560'

Cut 4½" csg @ 2671', spot 35 sks cmt plug 2690 - 2590'

CIBP set @ 6074' + 35k cmt cap

Glorieta Perfs
6094, 95; 6104, 29, 49, 51, 54, 57, 61, 65' 2SPF

4 1/2" csg set to 6250', cmt w/ 1100 sks

TD: 6250'

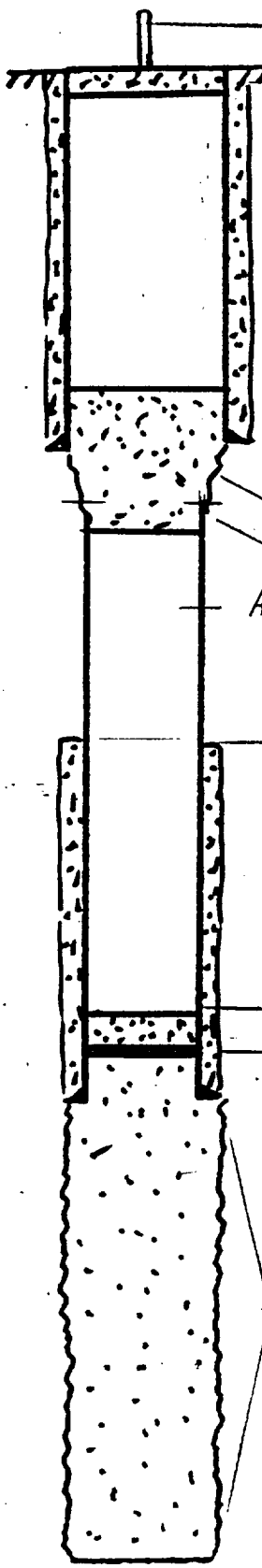
P&A'd: 8-27-74

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

P&A

FIELD	OPERATOR	DATE
Vacuum (Grayburg)	Mobil Oil Corp	5-24-76
LEASE	**WELL No**	**LOCATION**
Bridges State	59	L, Sec 13, T17S, R34E



Mobil P&A'd: 2-28-73

5-24-76

DATE 1-23-89 WELL NO. 232 LEASE North Vacuum Abo Unit

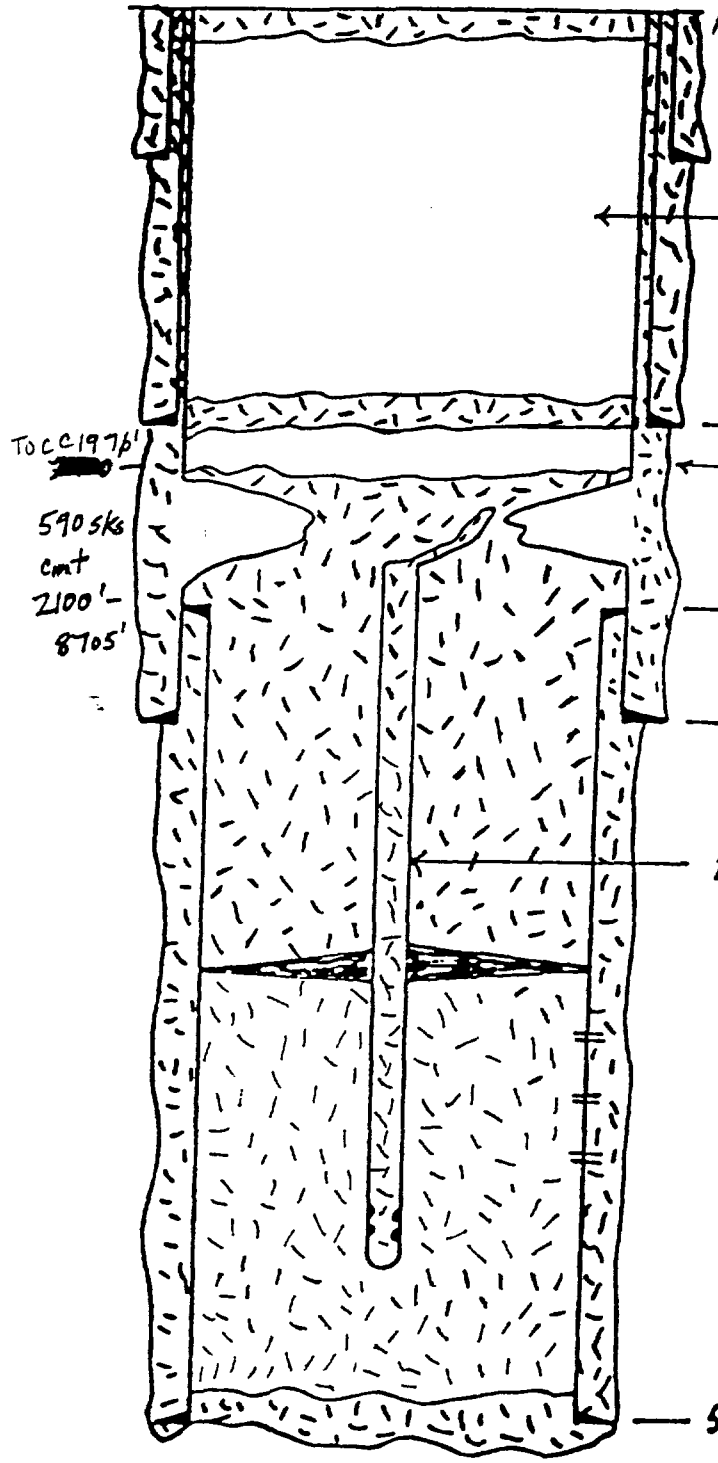
FIELD Vacuum Abo North LOCATION A 25-17-34 519' FNL & 560' FEL

Lea County, New Mexico

SIGNED D. G. Elwood

GL 4010'
DF 4025'
KB 4026'
ZERO KB (16' AGL)

PROPOSED WELLBORE DIAGRAM



Abo Perfs

8429-34, 65-68, 70-74, 77-81, 84-86, 88-92, 94-97,
8499-8503, 06-10' 1 JSPF 42 holes

8553-56, 58-60, 67-69, 73-75, 77-79, 80-83, 86-90'
1 JSPF 25 holes

67 total holes

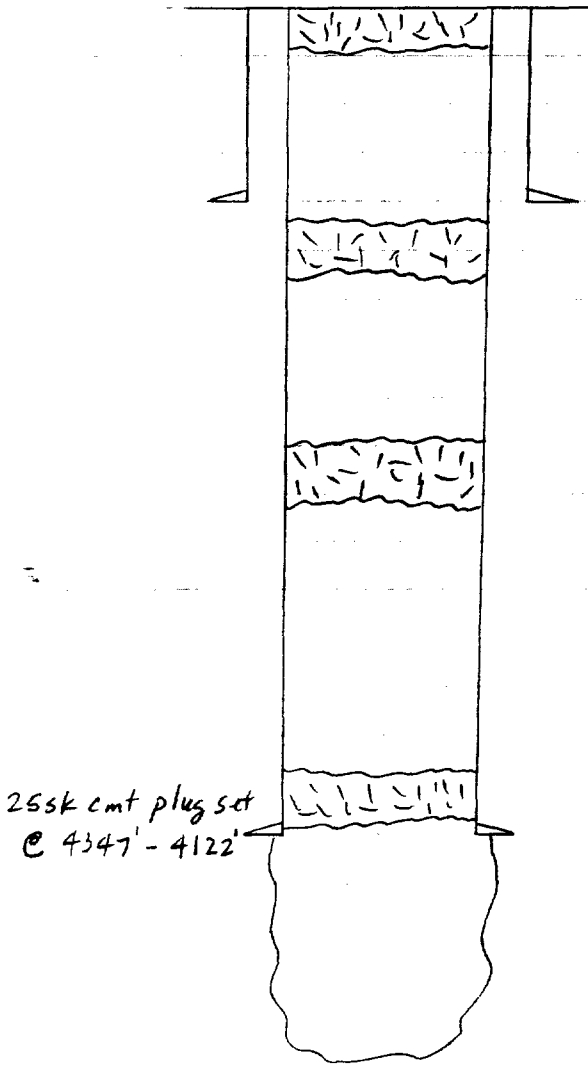
TD: 8750'
PBTD: 8705'

Mobil P&A'd: 2-9-89

P&A'D WELL WITHIN ONE-HALF MILE

TEXACO New Mexico W State NCT-1 #1
660' FSL & 1980' FEL
Unit O Sec 13 T17S R34E

PRESENT



10sk (90') surface cmt plug

7 5/8" 26.4 lb/ft csg set to 1655' w/ 300sks

25sks cmt plug set 1900 - 1675'

25 sks cmt plug set @ 3000 - 2775'

25sk cmt plug set @ 4347' - 4122'

5 1/2" 17 lb/ft set to 4348' w/ 200sks

San Andres
OH 4348 - 4650'

P&A'd: 6-11-86

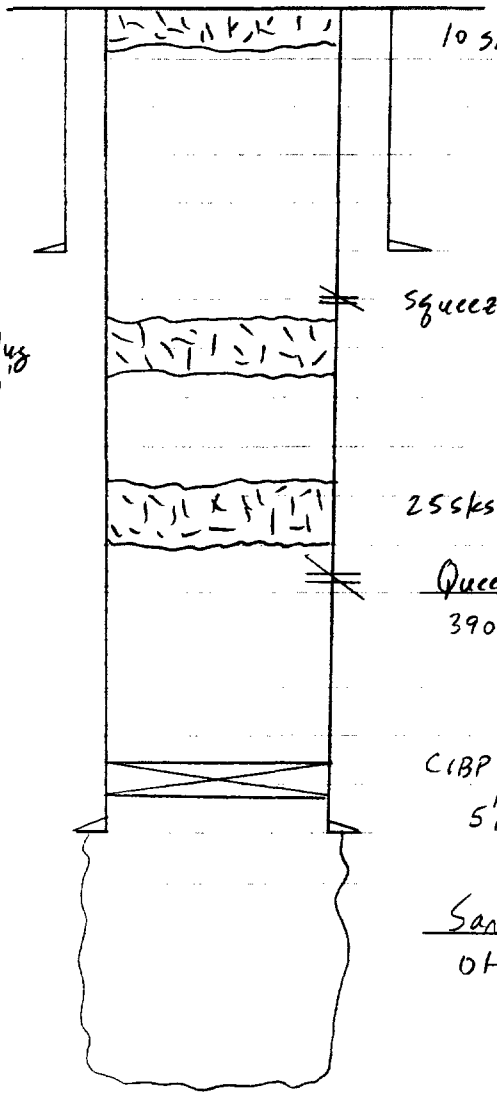
TD: 4680'

DCE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

TEXACO New Mexico State W NCT-1 #2
1980' FSL & 1980' FEL
Unit J Sec 13 T17S R34E

PRESENT



10 sks surface cmt plug

8 5/8" 28 16/ft set to 1687' w/300sks

Squeeze holes @ 1710', squeezed w/ 500sks, cmt circ (waterflow repair)

25sks cmt plug 1921-1721'

25sks cmt plug 3002-2802'

Queen Perfs =
3907-3912' 1SPF squeezed w/ 150sks cmt

CIBP set @ 4300' + 30' cmt cap

5 1/2" csg set to 4329' w/ 200 sks

San Andres
OH 4329-4700'

P&A'd: 8-15-88

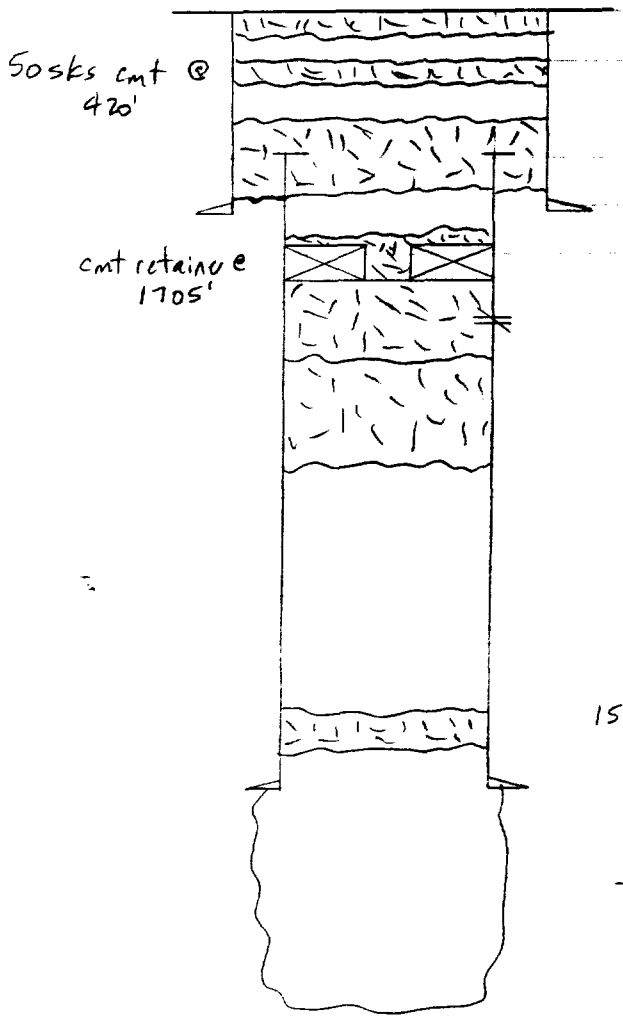
TD: 4700'

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

SHELL State C#1
1980' FSL & 660' FEL I Sec 24 T17S R34E

PRESENT



50 sk surface plug

cmt plug (60sks) 1020 - 775'

5 1/2" csg cut @ 960'

8 5/8" csg set to 1693', cmt w/ 600sks

Squeeze holes @ 1805', squeezed w/ 130sks cmt

500 sk cmt plug 2964 - 1820'

15 sk cmt plug @ 4200'

5 1/2" 14 lb/ft csg set to 4350', cmt w/ 275sks

San Andres
OH 4585 - 4690'

TD: 4733'

Initial P&A: 12-10-53
Re-enter to P&A: 8-1-80

DGE 5-31-90

P&A'D WELL WITHIN ONE-HALF MILE

DATE 1-5-89 WELL NO. 230 W/W LEASE North Vacuum Abo Unit

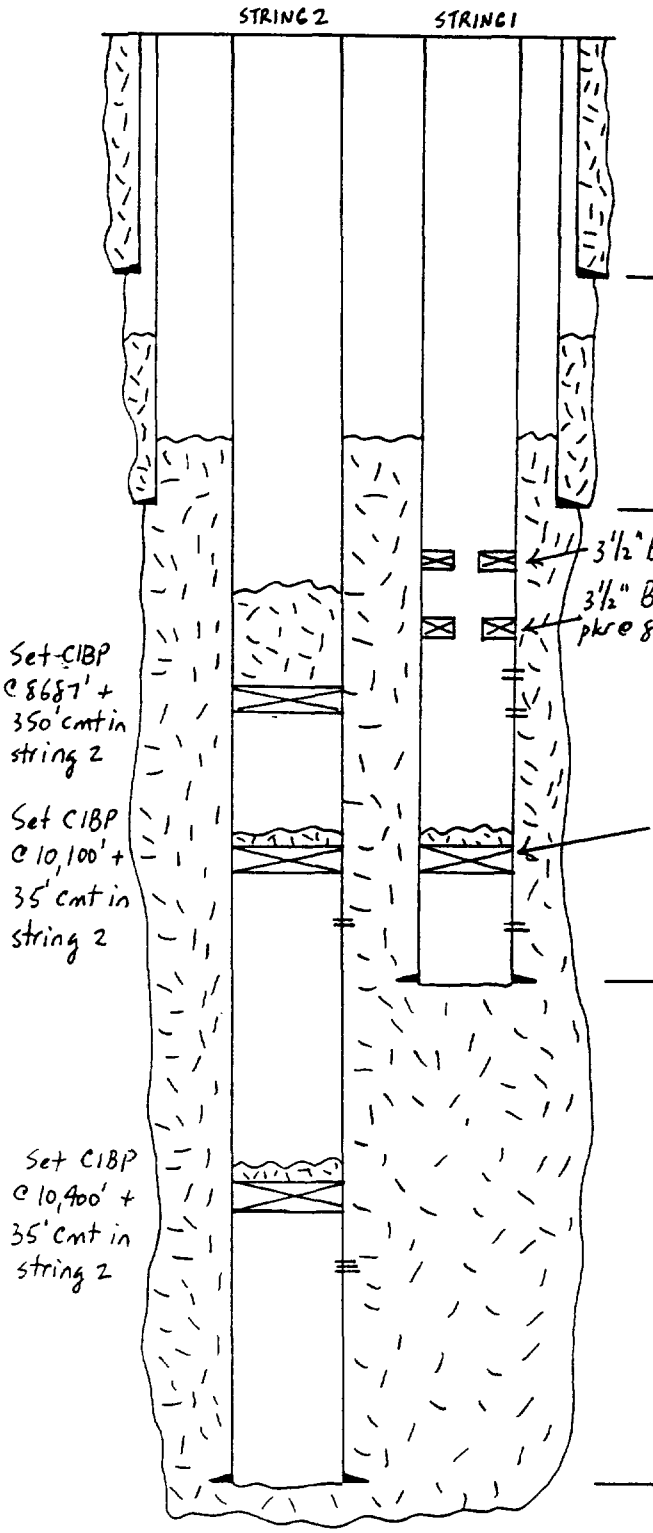
FIELD Vacuum Abo North LOCATION J-13-T17S-R34E

Lea County, New Mexico

SIGNED D. G. Elwood

GL 4061'
DF 4060'
KB 4047'
ZERO KB (14' AGL)

PRESENT WELLBORE DIAGRAM



16" 65 lb/ft csg set to 300' w/525 sks, circ cmt
TOC (16" & 10 3/4") @ 3430', calculated

10 3/4" 40.5, 50 lb/ft J-55 csg set to 4800' w/550 sks

3 1/2" Baker FA perm pkr @ 8430', junked no mandrel

3 1/2" Baker FA perm pkr @ 8482', leaks

Abo Perfs (string 1)
8528-30, 46-49, 52-54, 54-62, 66-79, 85-87'
8726-28, 31-33, 78-81' mixed 1, 2 JSPF

Set CIBP @ 10,106' + 20' cmt (string 1)
Perfed string 1 10,185-190, 197-210'. Perfed string 2 10,185-189', Comm both strings

3 1/2" 9.3, 9.4 lb/ft csg set to 10,269' TD: 10,299'
PBTD: 10,086'

Middle Penn Perfs (string 2) TA'd: 1985
10,472-88' 2 JSPF 32 holes

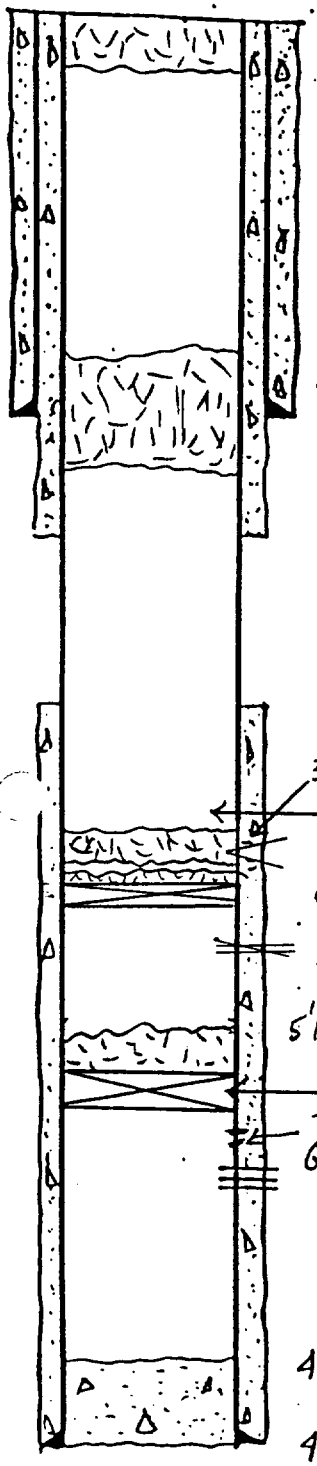
3 1/2" 9.3, 9.4 lb/ft csg set to 10,582' TD: 10,582'
Both 3 1/2" strings cmt w/2125 sks PBTD: 8337'

LOCATION A-23-17S-34E 1310 FNL 1310 FEL

SIGNED D. G. Elwood

G.L. ____
D.F. ____
K.B. ____
ZERO 14' AGL

Bridges State # 189



10 sks surface cmt plug

P&A'd 1-89

BRADENHEAD SQZ w/ 400 sx CL. C + 2% $CaCl_2$

25 sks cmt plug 498-202'

357' 8⅝" 24# K-55 ST+C CSG w/ 250 sx CL. C + 2% $CaCl_2$ + ¼# FLOCELE/SX (CMT CIRC.)

585' BOTTOM OF CMT (TEMP SURVEY)

TOC 1030' (TEMP SURVEY)

30 sks cmt plug 2215-1948'

wellbore circ w/ FW + NL Coat 1270 pkr fluid

Csg leak loc 2051-2066'

CIBP set @ 3542' + 6sks cmt cap

squeeze holes @ 4140', Squeezed w/ 50 sks

5½ Elder HydroSet

CIBP set @ ±~~4398~~', + ~~44~~' cmt DGE 12-30-88

Tight spot in Csg @ 4406-09'

GRAYBURG - SAN ANDRES PERFS 4542 - 4546 1 JSPF 5 HOLES
4572 - 4590 1 JSPF 19 HOLES

4741' PBTD

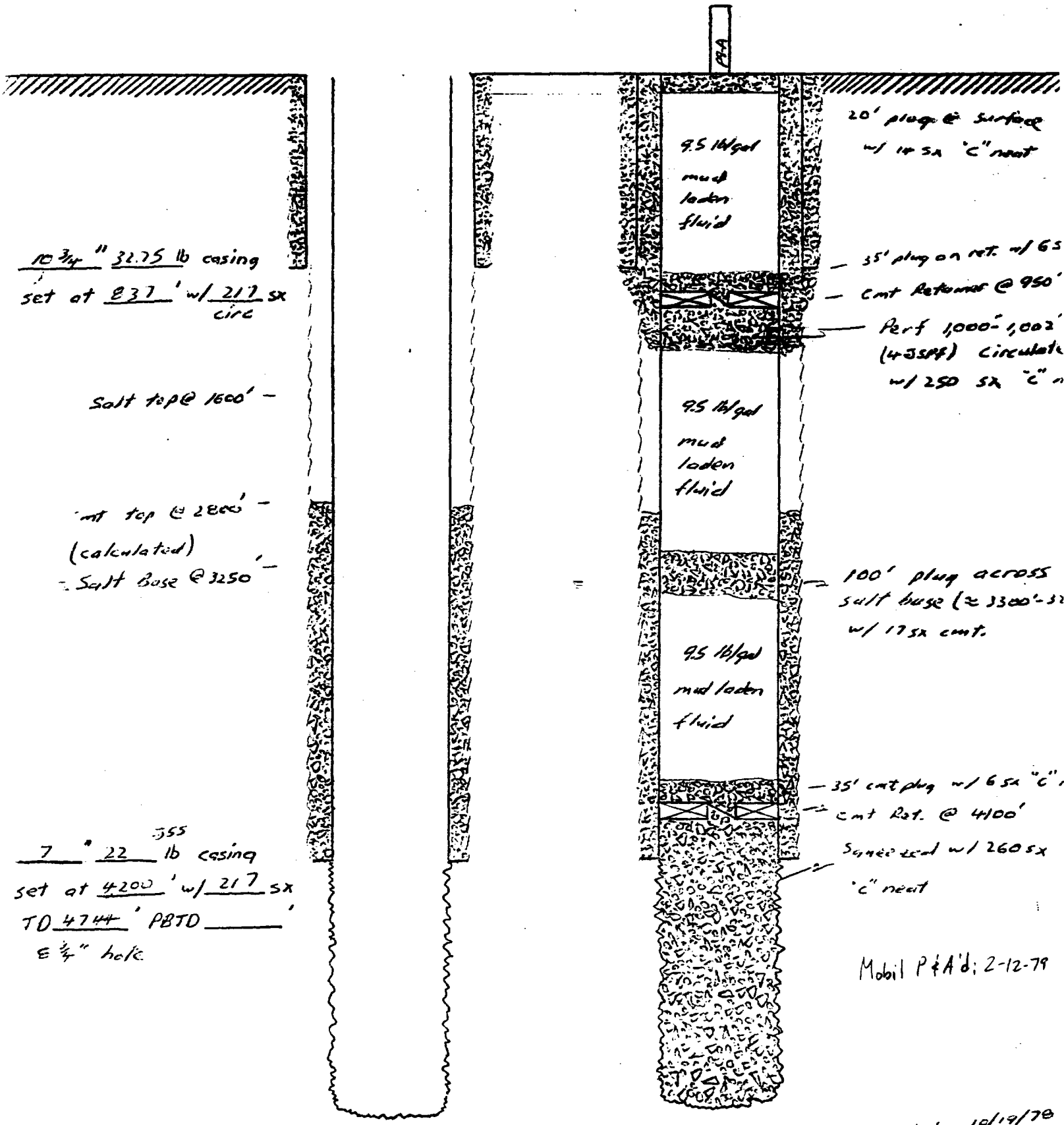
4750' 5½" 14# K-55 ST+C CSG w/ 2200 sx CL. C CMT

TD - 4750'

Mobil P&A'd: 1-21-89

DGE
7-6-88

Field: Vacuum Glorieta/San Andres	Date 10/19/78		T/A Date 7/76
Lease: Bridges State	Well No. 39	County & State Lea, New Mexico	
Location: L-S 26-T17S-R34E	Completion Date: 8/39	Elev. 4039'	KB Elev 4045'



Mobil P&A'd: 2-12-79

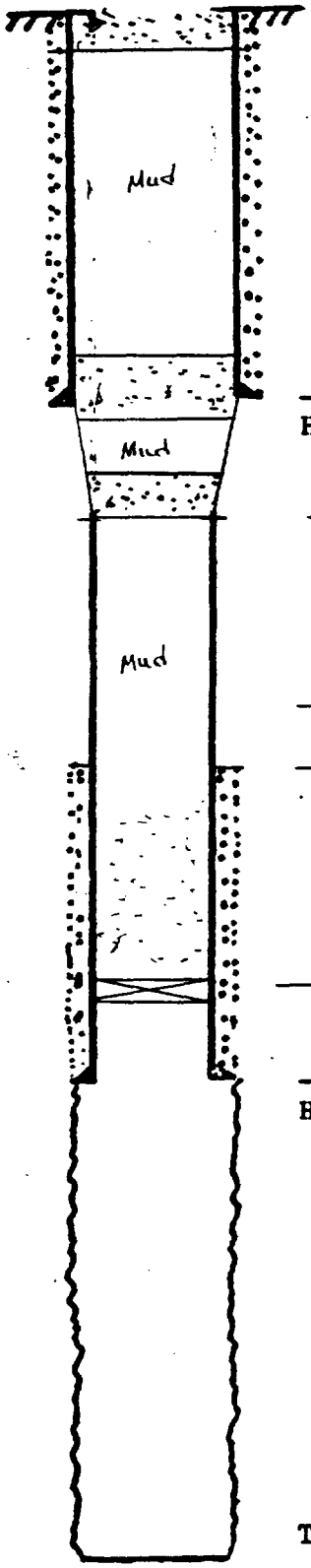
updated 10/19/78 RDG

RDG 10/24/7

P&A

FIELD	OPERATOR	DATE
Vacuum Grbg San Andres	Mobil Oil	5-24-76

LEASE	WELL No	LOCATION
Bridges State	71	C-14-17S-34E



10 sx plug

50 sx plug at 836'

10 3/4 " casing set at 836 ' with 250 sx of _____ cement

Hole size 12 1/4 "

50 sx plug

— 1160' Cut and pull 5½" csg

— 2,985' Casing may be parted

— 2750' Calculated Cmt Top

— 4,339' EZ Drill BP

5 1/2 " casing set at 4375 ' with 210 sx of _____ cement

Hole size _____ "

Mobil P&A'd: 5-1-71

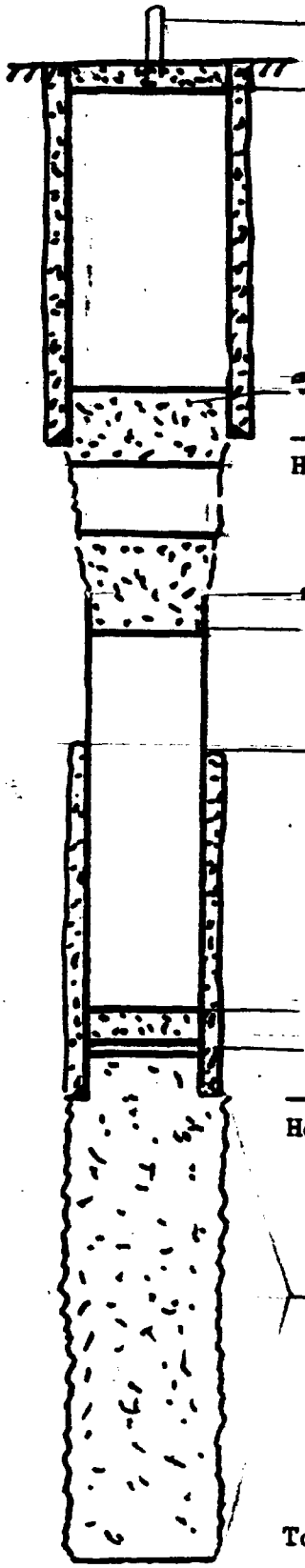
Total Depth 4772'

1 EW

P&A

FIELD	OPERATOR	DATE
Vacuum (G-SA)	Mobil Oil Corp	5-24-76

LEASE	WELL No	LOCATION
Bridges-State	70	B - Sec. 14, T17S, R34E



Set P & A Marker

Spot 10 Sx Cement To Surf.

Spot 50 Sx Cement - 757'- 885'

10 3/4 " casing set at 835 ' with 250 sx of _____ cement

Hole size 12 1/4 "

Cement Circ

Shot Casing at 1160'

Spot 35 Sx Cement - 1093'- 1215'

Cement Top - 2480' (calc)

Spot 2 bbl. Cement on Ret.

Cement Retainer - 4300'

5 1/2 " casing set at 4371 ' with 210 sx of _____ cement

Hole size 7 3/8 "

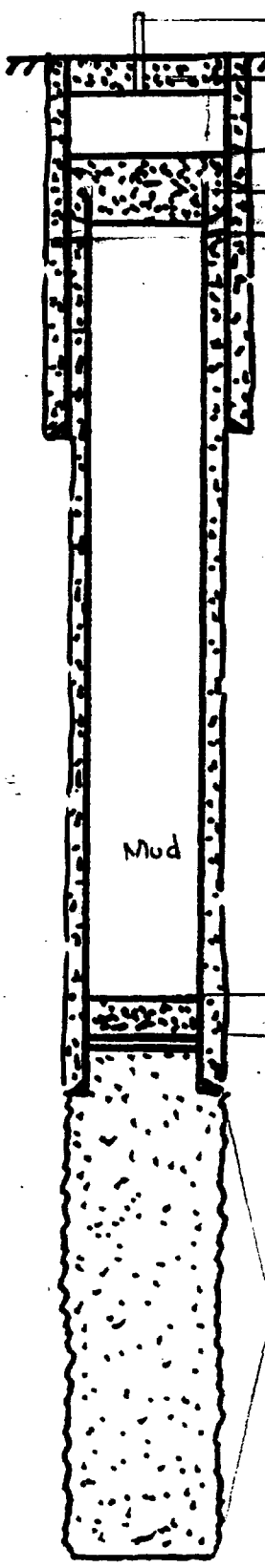
Sqzd. OH 4371'- 4740 w/ 200 Sx Cement

Mobil P&A'd. 2-2-73

Total Depth 4740'

5-24-76
JHS

FIELD	OPERATOR	DATE
Vacuum (Gr-SA)	Mobil Oil Corp	5-24-76
LEASE	**WELL No**	**LOCATION**
Bridges State	80	B - Sec. 13, T17S, R34E



Set P & A Marker

Set 10 sx Cement To Surf

Spot 30 sx Cement at 380'

Pull 5 1/2" casing To 330'

Cement Top - 385' - Temp. Survey

8 5/8" casing set at 1689' with 900 sx of _____ cement
Hole size 11"
cement circ

Spot 1 bbl. Cement on Ret.

Set Cement Retainer - 4615'

5 1/2" casing set at 4665' with 1950 sx of _____ cement
Hole size 7 7/8"

Sqzd. OH 4665'-4716' w/ 200 sx Cement

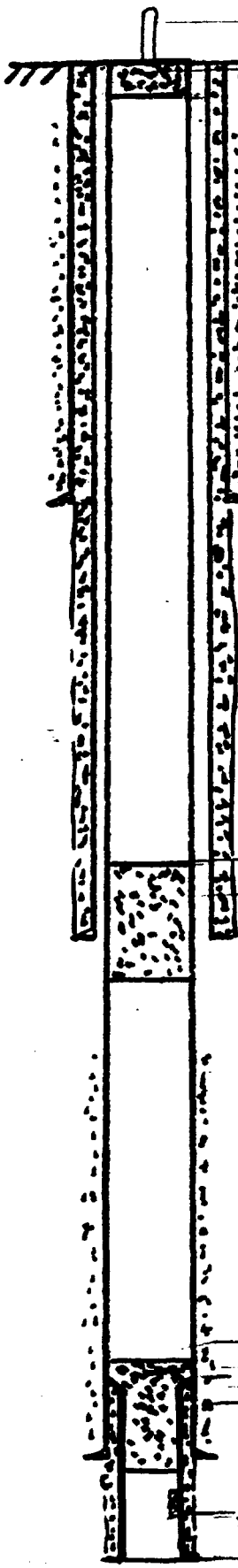
Mobil P & A'd: 2-15-73

Total Depth 4716'

5-24-76
JHS

P & A

FIELD	OPERATOR	DATE
Vacuum (G-SA)	Mobil Oil Corp	5-24-76
LEASE	**WELL No**	**LOCATION**
Bridges State	1	E - Sec 13, T17S, R34E



Set P & A Marker

Spot 10 Sx Cement to Surface

15½" casing set at 319' with ? sx of _____ cement
Hole size ?" Cemented -

Spot 35 sx Cement - 1550'-1650'

Hole at 1595' Sqzd w/ 200 Sx Cement - Circulated.

10" casing set at 1600' with ? sx of _____ cement
Hole size ?" cemented

Mobil P & A'd: 2-8-73

Spot 60 Sx Cement 4200'-4450'

Liner Top - 4258'

5½" Liner Cemented w/ 200 Sx Cement

8⅝" casing set at 4380' with ? sx of _____ cement
Total Depth 4900' Hole size ?" Cemented

San Andres Perf - 4586'-4644' - Sqzd. w/ 200 Sx C.H. Cement

Bottom Liner 4900'

5-24-76

P&A'D WELL WITHIN ONE-HALF MILE

DATE 12-8-88 LL NO. 6 W/W LEASE State VA

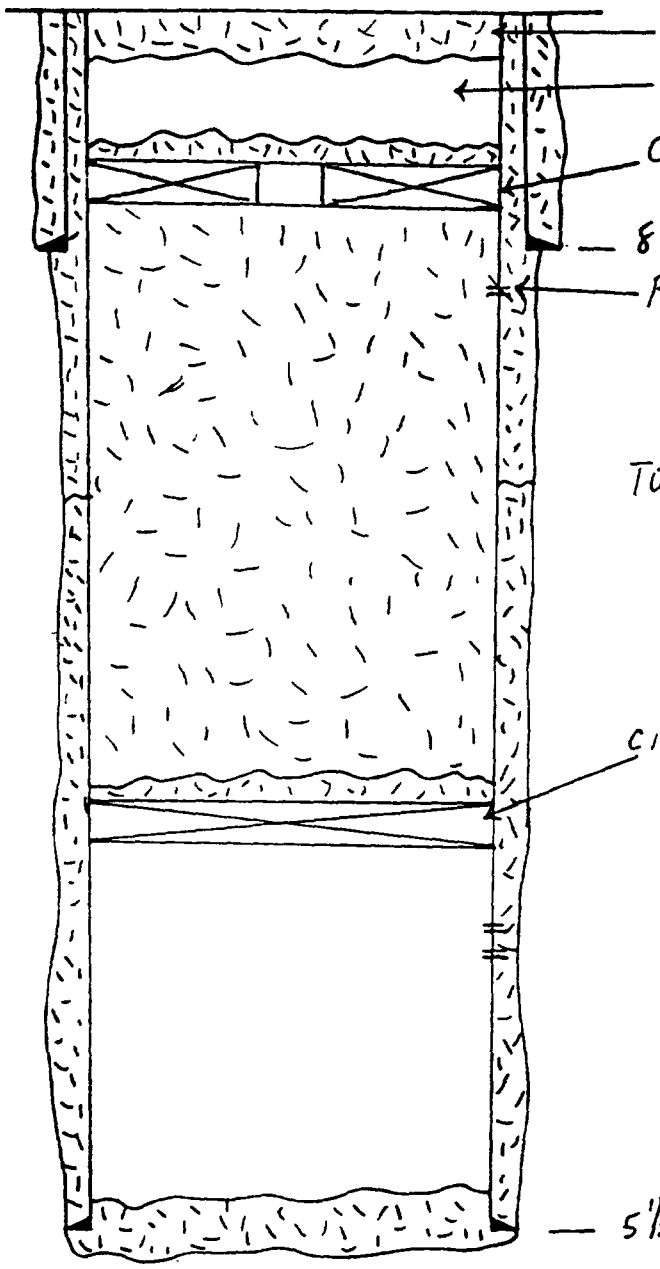
FIELD Vacuum Grybg/SA LOCATION Lea County, New Mexico 660' FSL & 660' FWL

M Sec 23 T17S R34E

SIGNED D. G. Elwood

GL 4029'
DF 4039'
KB 4040'
ZERO KB (11' AGL)

PROPOSED WELLBORE DIAGRAM



10 sk cmt plug @ surface

Wellbore circ w/gelled brine

Cmt retainer set @ 1436' + 13 sks (est TOC @ 1336')

8 5/8" 24 lb/ft & 32 lb/ft csg set to 1594' w/1075 sks, cmt circ

Perf @ 1654' 2SPF, squeezed w/350 sks, circ to surface

TOC (behind 5 1/2" csg) @ 2450' (temp survey)

CIBP set @ 4483' + 12 sks cmt

San Andres Perfs

4563-71, 75-81, 4592-4600' 2SPF 44 holes

5 1/2" 15.5, 17, 20 lb/ft csg set to 4700' w/565 sks

TD: 4700'
PB TD: 4656'

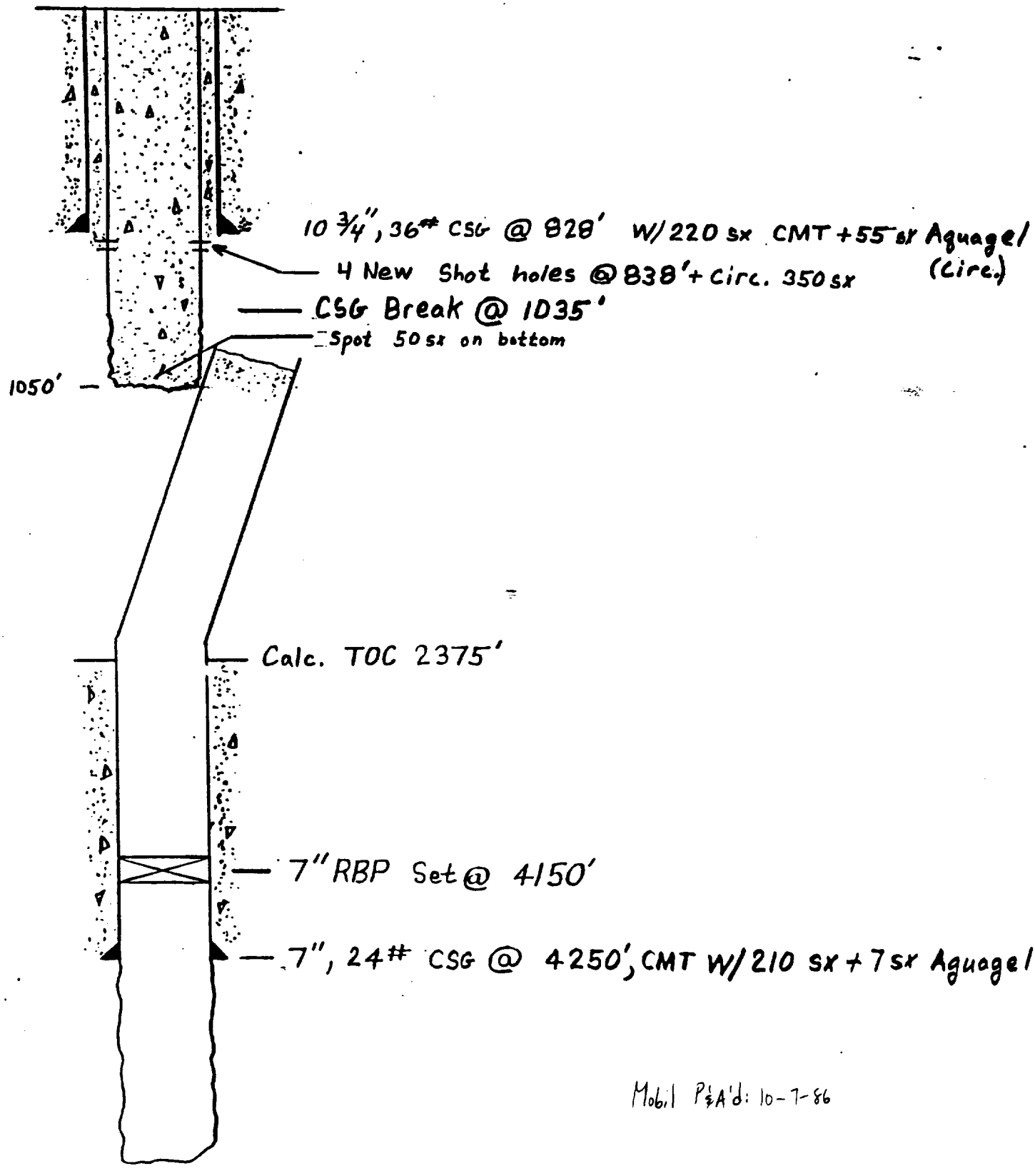
Mobil P&A'd: 3-8-89

DATE 7-7-86 WELL NO. 29 LEASE Bridges State FIELD Vacuum GBG S

LOCATION M-26-17S-34E SIGNED D.A. Howell G.L. 4037'
D.F. _____
K.B. _____
ZERO _____

660' FSL & 660' FWL
Lea County, NM

PROPOSED



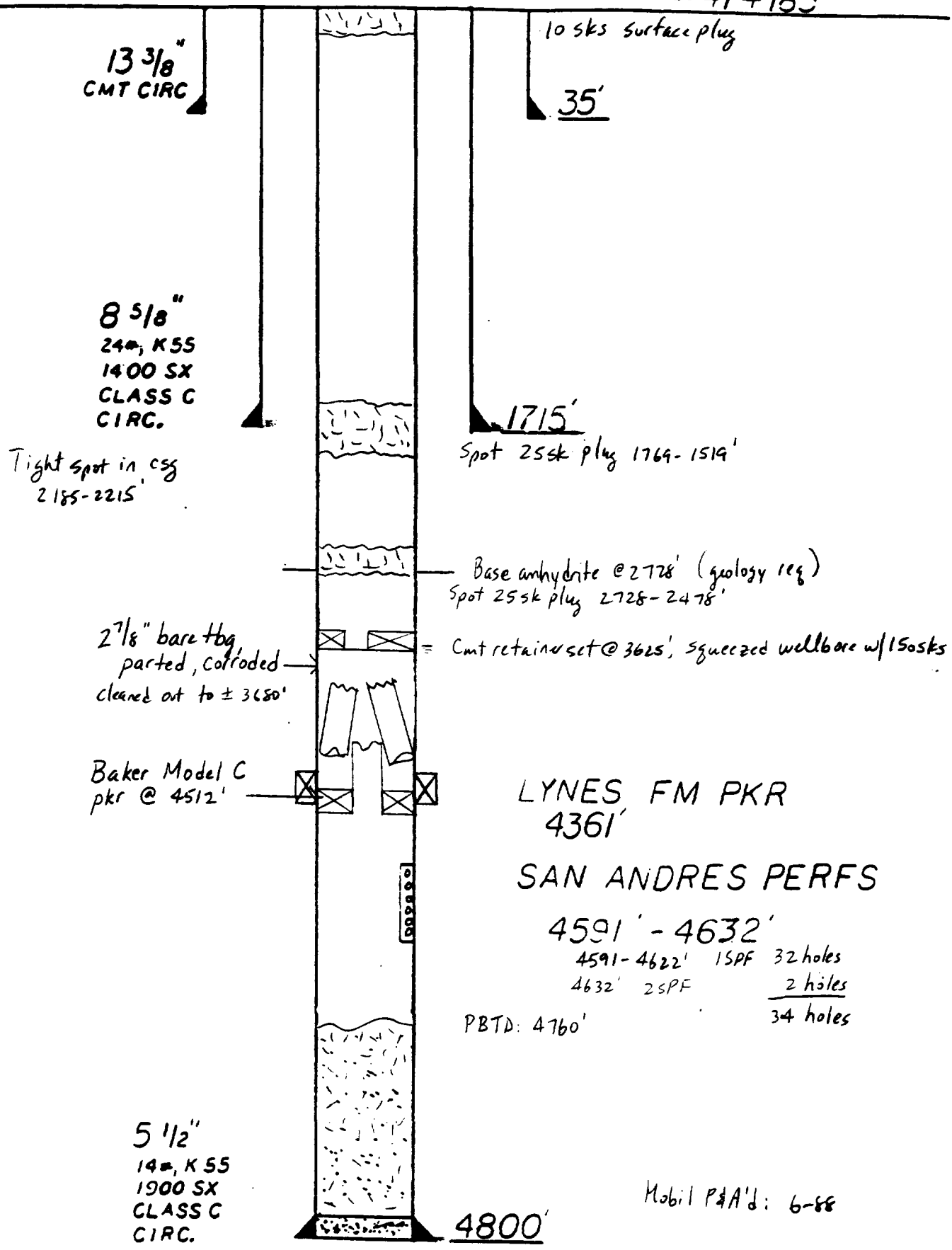
Mobil P&A'd: 10-7-86

BRIDGES STATE 195

LOCATION: S-23 Unit D
T-17S 164' FNL & 1308' FWL
R-34E

PRESENT SKETCH

KB: 4038'
GL: 4025'
SPUD DATE: 4/4/85



DATE 6-15-89 WELL NO. 61 LEASE Bridges State

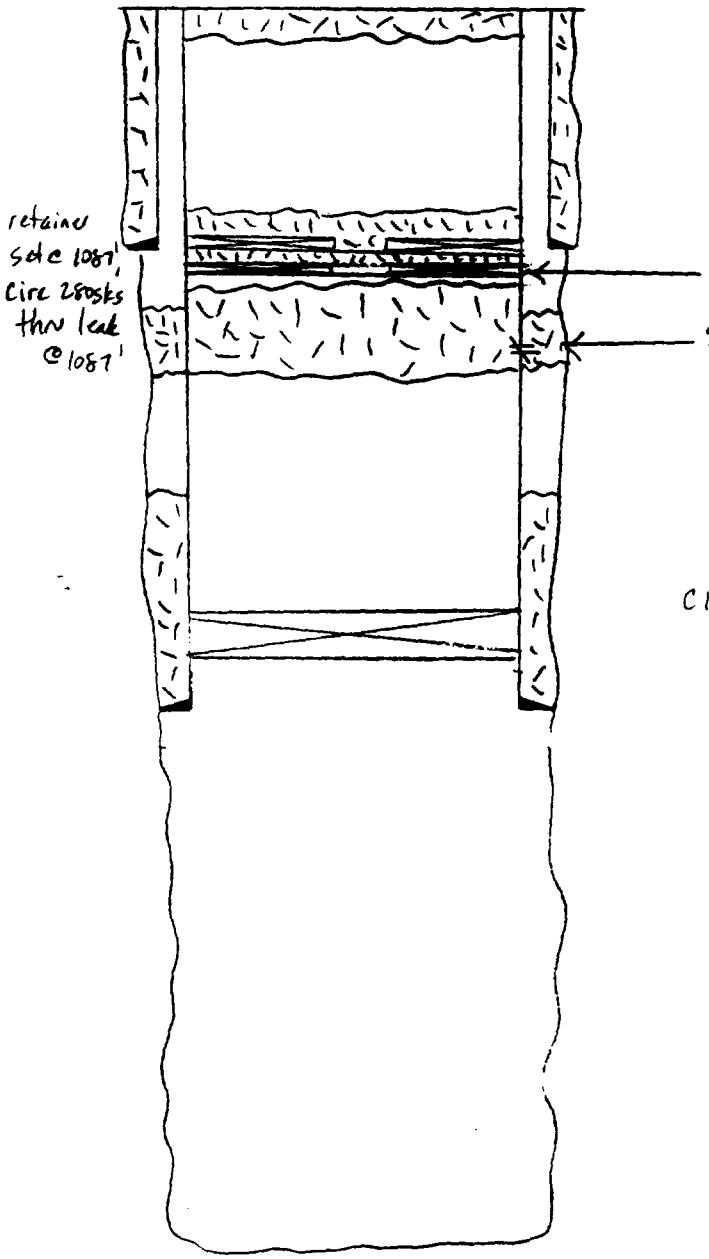
FIELD Vacuum Grayburg/San And. LOCATION J Sec 14 T17S R34E 1980' FSL & 1980' FEL

Lea County, NM

SIGNED D G Elwood

GL 4030' (estimate)
DF 4043'
KB 4042'
ZERO KB (12' AGL)

PROPOSED WELLBORE DIAGRAM



60' surface cmt plug

100' cmt plug inside 7", across 10 3/4" shoe, TOC @ 790'

10 3/4" csg set to 837' w/ 250 sks, cmt circ

Cmt retainer @ 1430', squeeze csg w/ 100sks

Squeeze holes perfed 1750-52' 4SPF, circ 10sks behind csg + 150' cmt plug in csg

calculated TOC behind 7" @ 2737'

CIBP set @ 4250' + 35' cmt cap

7" csg set to 4347' w/ 220 sks

Grayburg / San Andres

Open hole 4347-4709'

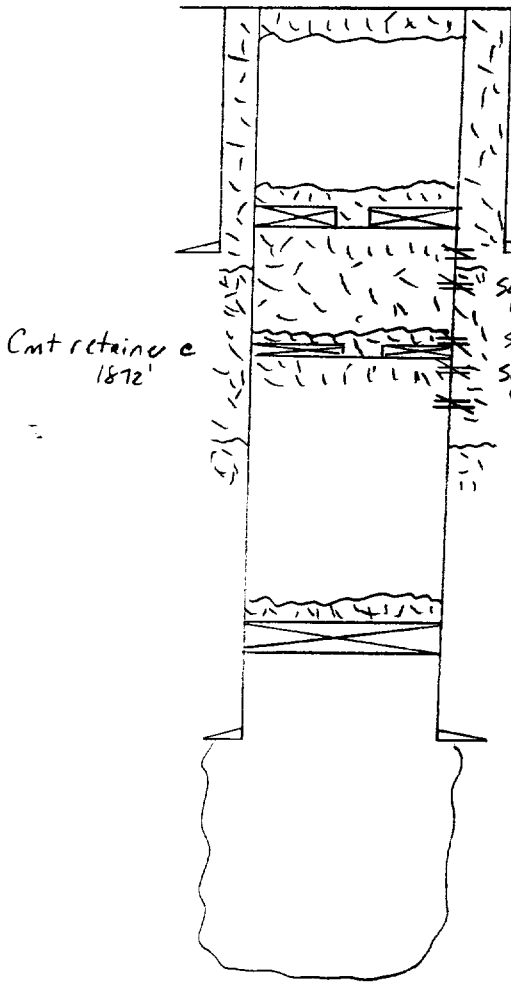
Mobil P&A'd: 6-89

TD: 4709'

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)
State VA #1
Unit N Sec 23 T 17S R 34E
660' FSL & 1980' FWL Lea County, NM

PRESENT



12 sk surface plug

Cmt retainer set @ 768', circ 115 sks thru perfs @ 824' + 12 sk cap
7 5/8" 26 lb/ft csg set to 800' w/ 300 sks, circ

Squeezed 200 sks thru perfs @ 995', TOC by temp survey @ 860'

Cmt retainer @ 1872'

Squeezed 550 sks thru perfs @ 1860'
Squeezed 300 sks thru perfs @ 2643-45' + 385 sks + 5 sk cap
Squeezed 180 sks thru perfs 2878-2880'
TOC @ 2920' (by CBL) PRIMARY

CIBP set @ 4212' + 25 sk cap

5 1/2" 17 lb/ft csg set to 4317' w/ 200 sks

San Andres Perfs
OH 4317 - 4740'

TD: 4740'
PB TD: 4740

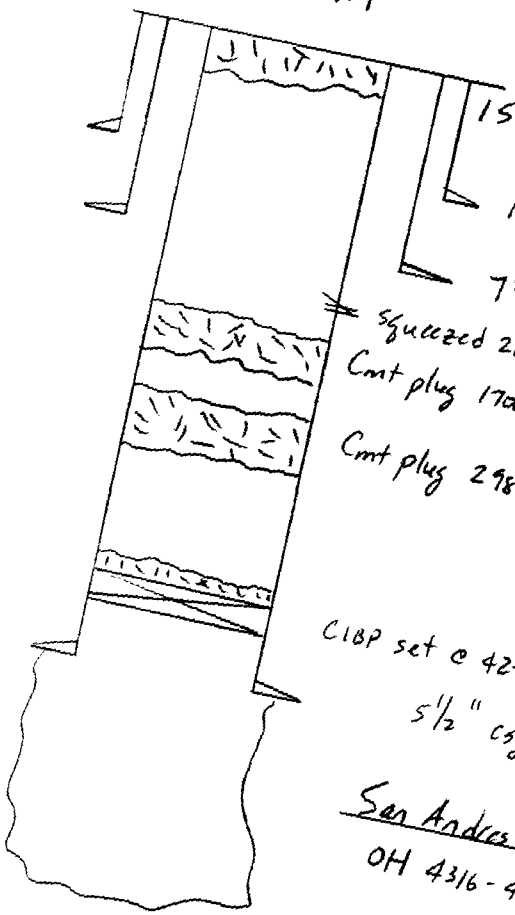
Amerada P&A'd:

DGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)
State VA #2
Unit L Sec 23 T17S R34E Lea County, NM

PRESENT



TD: 4671'
PBTD: 4671'

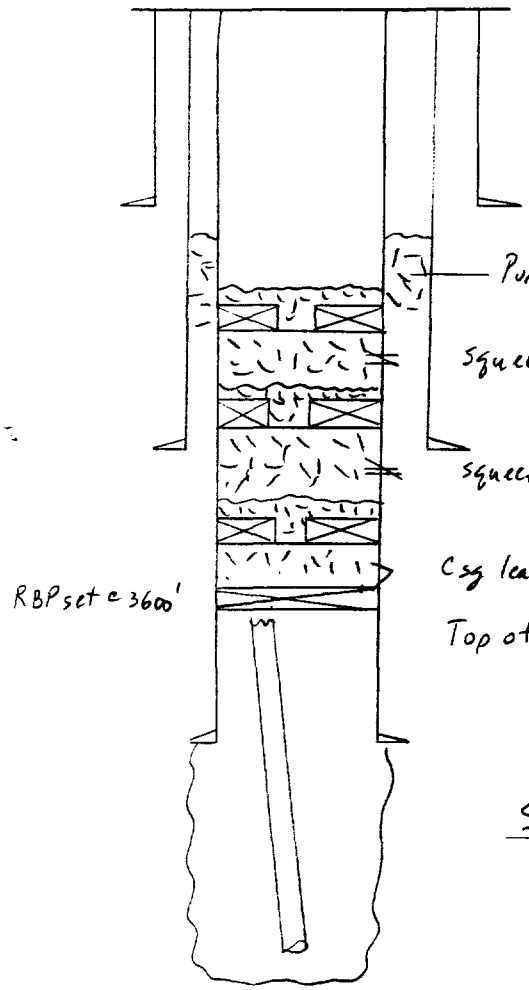
Amerada P&A'd: 9-29-82

DCE 6-5-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)
State VA #3
Unit K Sec 23 T 17S R 34E 1980' FSL & 1980' FWL
Lea County, NM

PRESENT



13" 40 lb/ft csg set to 227' w/ 200 sks

Pumped down annulus w/ 125 sks, Toc @ 350'

Squeezed perfs @ 1193' w/ 250 sks cmt, retainer @ 1062' + cmt cap

9 5/8" 36 lb/ft csg set to 1641' w/ 250 sks

Squeezed perfs 1660-62' w/ 360 sks, retainer @ 1548' + 20 sk cap

Csg leaks 2419-3634'; squeezed w/ 400 sks, cmt retainer @ 2300' + 20 sk cap

RBP set @ 3600'

Top of junk rods + tbg: 3645'

7" 24 lb/ft csg set to 4311' w/ 200 sks

San Andres
OH 4311-4662'

TD: 4662'
PBTD: 4662'

Amerada P&A'd. 9-8-76
Amerada re-P&A'd: 6-19-80

DGE 6-5-90

P&A'D WELL WITHIN ONE-HALF MILE

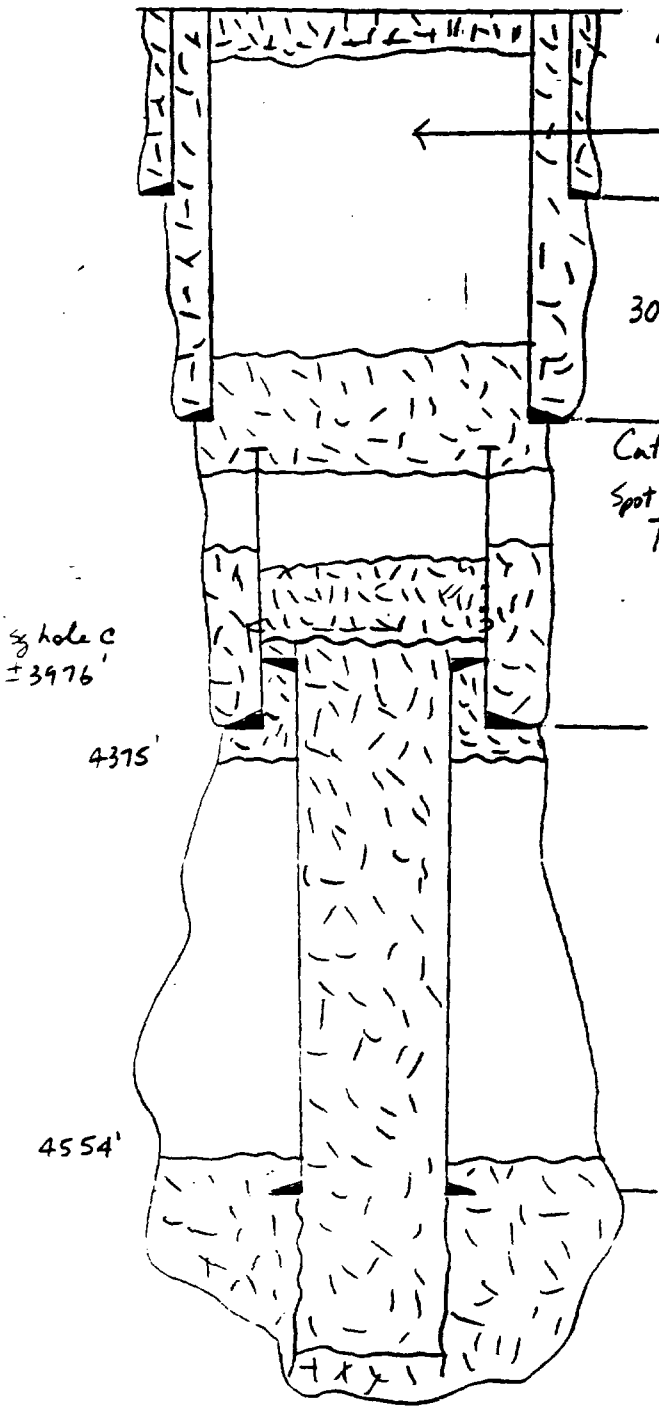
DATE 4-26-90 WELL NO. 2 LEASE Bridges State

FIELD Vacuum Grbg/SA LOCATION Unit O Sec 14 T17S R34E 660' FSL & 1980' Lea County, NM

SIGNED D G Elwood

GL 4039'
DF 4044'
KB 4056'
ZERO KB (11' AGL)

PROPOSED WELLBORE DIAGRAM



100' (40 sks) surface plug

Wellbore circ w/gelled brine (9-10 ppg)

16" 70 lb/ft csg set to 60', cmt circ

300' cmt plug (125 sks) across top salt, 10 3/4" shoe, 7" stub 1950-1650' TAG

10 3/4" 40.5 lb/ft csg set to 1653' w/ 490 sks, cmt circ

Cut 7" @ ± 1900'

Spot 150 sk plug 3580-3830'

TOC (calc w/ 25% excess) @ ± 3055'

Sq hole @ ± 3976'

Squeeze 150 sks into leak 3976'

TOL @ 4156' (No temp survey, est BOC @ ± 4375')

7" 24 lb/ft csg set @ 4364' w/ 315 sks (est 9 5/8" hole)

150 sks cmt plug 4090-4630' (± 45 sks in csg, ± 105 sks in OH & formation)

San Andres Injection

OH 4574-4630'

5" 15 lb/ft liner set @ 4574' w/ 300 sks + 200 sks over liner top (est 6 3/4" hole)
(est only tacked csg w/ 20' cmt)

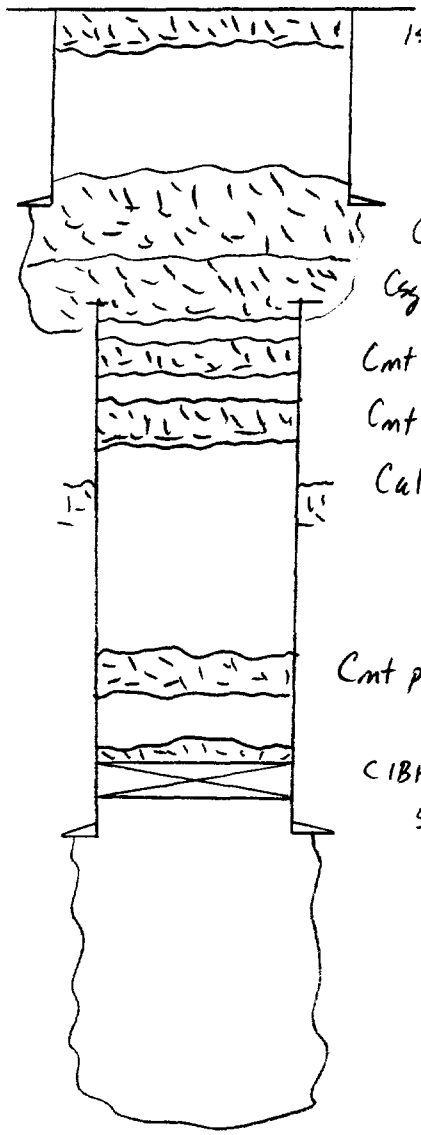
Mobil P&A'd: 5-9-90

TD: 4715' PBTD: 4630'

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #69
Unit F Sec 13 T17S R34E
1980' FNL & 1980' FWL Lea County, NM

PRESENT



15 sks surface plug

10 3/4" csg set to 822' w/ 250 sks circ

Cmt plug 1050 - 700'

Csg cut @ 1100', cmt plug (60 sks) 1150 - 1050'

Cmt plug (155 sks) 1841 - 1600'

Cmt plug (155 sks) 2600 - 2460'

Calc TOC @ 3193'

Cmt plug (155 sks) 4270 - 4120'

CIBP set @ 4306' + 35' cmt cap

5 1/2" csg set to 4392' w/ 210 sks

San Andres Perfs
OH 4392 - 4706'

Mobil P&A'd: 3-2-90

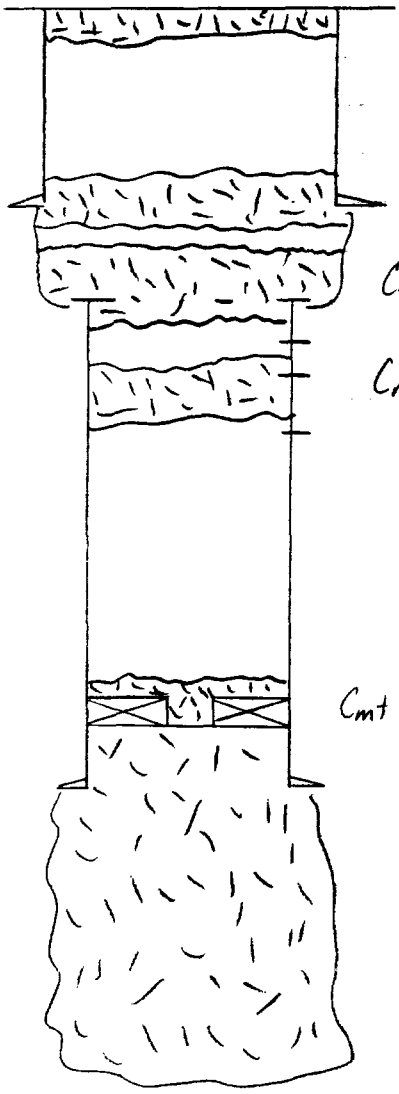
TD: 4706'
PBTD: 4706'

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State # 45
Unit D Sec 13 T17S R34E
Lea County, NM

PRESENT



10 3/4" csg set to w/ sks, cmt plug (50sks), 863-753

Csg cut @ 1199' (attempts @ 1979, 1683, 1505'), Cmt cap 1250-1020'

Cmt plug 1800-1625' (35 sks)

Cmt retainer set @ 4338', squeezed OH w/ 150cks + 5sk cap

7" csg set to 4394 w/ sks

San Andres Perfs
OH 4394-4720'

Mobil P&A'd 1-17-73

TD: 4720'
PBTD: 4720

DGE 6-1-90

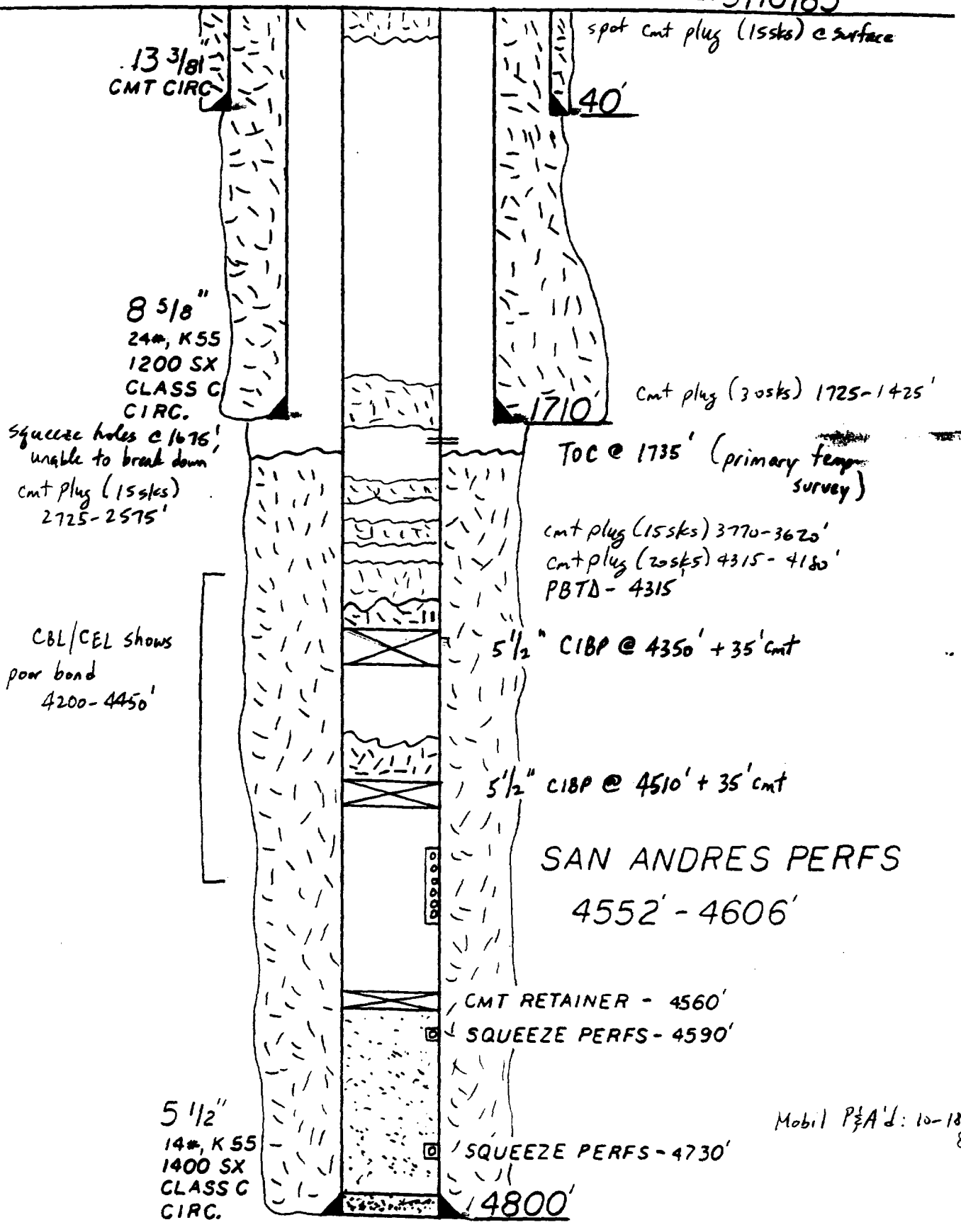
BRIDGES STATE 193

P&A'd WELL WITHIN ONE HALF MILE

LOCATION: S-23
T-17S
R-34E

PRESENT DIAGRAM

KB: 4042'
GL: 4030'
SPUD DATE: 3/16/85



Mobil P&A'd: 10-18-89

TD: 4800' PBTD: 4315'

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

708 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 682-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 590306

TO: Ms. Donna Ellwood
P.O. Box 633, Midland, Texas

SAMPLE RECEIVED 5-29-90

RESULTS REPORTED 6-1-90

COMPANY MEPUS LEASE Central NVA Station

FIELD OR POOL Vacuum

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Supply water - taken from raw water line. 5-29-90

NO. 2

NO. 3

NO. 4

REMARKS: Sample taken by Tom Elrod, Martin Water Labs., Inc.

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018			
pH When Sampled				
pH When Received	8.39			
Bicarbonate as HCO_3	185			
Supersaturation as $CaCO_3$	4			
Undersaturation as $CaCO_3$	---			
Total Hardness as $CaCO_3$	256			
Calcium as Ca	83			
Magnesium as Mg	12			
Sodium and/or Potassium	49			
Sulfate as SO_4	39			
Chloride as Cl	104			
Iron as Fe	0.25			
Barium as Ba				
Turbidity, Electric	-			
Color as Pt				
Total Solids, Calculated	479			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,	2.0			
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	15.18			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO_3	7			
Calcium Carbonate Scaling Tendency	NONE			
Calcium Sulfate Scaling Tendency	NONE			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: Letter of recommendation attached.

Form No. 3

By _____
Waylan C. Martin, M.A.

cc: Mr. U.L. Garcia, Lovington, NM

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 590307

TO: Ms. Donna Ellwood
P.O. Box 633, Midland, Texas

SAMPLE RECEIVED 5-29-90

RESULTS REPORTED 6-1-90

COMPANY MEPUS LEASE Bridges State

FIELD OR POOL Vacuum

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Bridges State #13. 5-29-90

NO. 2 Produced water - taken from Bridges State #27. 5-29-90

NO. 3 Produced water - taken from Bridges State #58. 5-29-90

NO. 4 Produced water - taken from Bridges State #102. 5-29-90

REMARKS: 1 & 2 Blinebry 3 & 4 Glorieta - Samples taken by Tom Elrod, Martin Water Labs, Inc

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1081	1.1477	1.1410	1.1352
pH When Sampled				
pH When Received	7.10	7.30	7.59	7.45
Bicarbonate as HCO_3	366	415	476	439
Supersaturation as $CaCO_3$	90	20	70	100
Undersaturation as $CaCO_3$	---	---	---	---
Total Hardness as $CaCO_3$	35,500	28,000	8,200	7,200
Calcium as Ca	11,200	7,400	2,280	2,000
Magnesium as Mg	1,822	2,308	608	535
Sodium and/or Potassium	50,413	80,732	85,421	82,128
Sulfate as SO_4	573	2,780	3,124	3,009
Chloride as Cl	102,267	142,038	134,936	129,255
Iron as Fe	0.07	1.2	12.9	0.65
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	166,642	235,673	226,844	217,366
Temperature °F.				
Carbon Dioxide, Calculated	48	34	25	29
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	74.0	74.0
Resistivity, ohms/m at 77° F.	0.065	0.052	0.053	0.055
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	MODERATE	NONE	MARGINAL	MODERATE
Calcium Sulfate Scaling Tendency	NONE	SEVERE	NONE	NONE
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks				

Form No. 3

By ___

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 590307 (Page 2)

TO: Ms. Donna Ellwood
P.O. Box 633, Midland, Texas

SAMPLE RECEIVED 5-29-90
RESULTS REPORTED 6-1-90

COMPANY MEPUS LEASE Bridges State
FIELD OR POOL Vacuum
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Bridges State #103. 5-29-90
NO. 2 Produced water - taken from Bridges State #110. 5-29-90
NO. 3 Produced water - taken from Bridges State #113. 5-29-90
NO. 4

REMARKS: Glorieta

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1376	1.1383	1.1424	
pH When Sampled				
pH When Received	7.02	7.57	7.01	
Bicarbonate as HCO_3	512	512	403	
Supersaturation as $CaCO_3$	90	50	50	
Undersaturation as $CaCO_3$	---	---	---	
Total Hardness as $CaCO_3$	8,400	8,000	16,500	
Calcium as Ca	2,440	2,200	5,200	
Magnesium as Mg	559	608	851	
Sodium and/or Potassium	82,415	82,722	81,784	
Sulfate as SO_4	2,780	3,038	1,633	
Chloride as Cl	130,675	130,675	136,356	
Iron as Fe	0.86	0.14	0.50	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	219,381	219,755	226,227	
Temperature °F.				
Carbon Dioxide, Calculated	82	27	64	
Dissolved Oxygen,				
Hydrogen Sulfide	106	106	21.0	
Resistivity, ohms/m at 77° F.	0.055	0.054	0.053	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	MILD	NONE	NONE	
Calcium Sulfate Scaling Tendency	NONE	NONE	NONE	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: Letter of recommendation attached.

Form No. 3

By Waylan C. Martin, M.A.

cc: Mr. U.L. Garcia, Lovington, NM

RECOMMENDATION CONCERNING FLUID COMPATABILITY OF THE GLORIETA AND BLINEBRY FORMATIONS.

VACUUM RMT MEMO

Water samples were obtained on 5 Glorieta and 2 Blinebry producers on May 29, 1990. Fresh water presently used to flood the Abo was also tested. The individual well water tests show a natural moderate calcium carbonate scaling in the Glorieta formation.

The water test on Bridges State #113 varied from the other Glorieta well tests on calcium, calcium carbonate, and hydrogen sulfide content. This well is on the edge of the structure where a mild water drive exists - it is probable that there is a mixing of the base water with the connate water that causes the difference.

A water test on Bridges State #27 shows an abnormal high sulfate content. Squeezed perforations in the San Andres and the Glorieta in #27 should be tested for communication.

Since the 164 BWPD presently produced from the 11 wells is far less than the 2000 BWPD needed for a waterflood, produced water cannot be utilized for waterflooding. It is expected that using fresh water for injection will not be detrimental to the Glorieta and Blinebry. Since these formation waters are well below the saturation point for calcium sulfate, any leaching of anhydrite by the fresh water should not be enough to cause widespread scale deposition.

With the exception of Bridges State #58, the wells tested do not show significant free iron to promote iron sulfide deposition. It is recommended to run a coupon test on #58 to locate the source of free iron.

It is recommended to perform preventative scale squeezes at the start of the flood to inhibit any scale deposition in the producers.

D. G. Elwood
6-7-90

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-67

Operator	County	Date
Mobil Exploration & Producing U.S. Inc.	Lea	6/15/90
Address	**Lease**	**Well No.**
Box 633, Midland, TX 79702	North Vacuum Abo Unit Bridges State	109

Location of Well	Unit	Section	Township	Range
	N	24	17S	34E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X

2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum Glorieta	Vacuum Blinebry	Vacuum Abo
b. Top and Bottom of Pay Section (Perforations)	5923-6303'	6303-7300'	8000-9272'
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection

4. The following are attached. (Please check YES or NO)

Yes	No	
X		a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X		b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X		c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
	X	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.
See attached list

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 6/15/90.

CERTIFICATE: I, the undersigned, state that I am the Environmental, Regulatory Loss Prevention Supervisor of the Mobil Exploration & Producing US Inc. As Agent for Mobil Producing Texas & New Mexico Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Mobil Producing Tx. & New Mexico Inc.

Guy D. Miller
G. N. Miller Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DATE 5-30-90 **WELL NO.** 109 **LEASE** North Vacuum Abo Unit

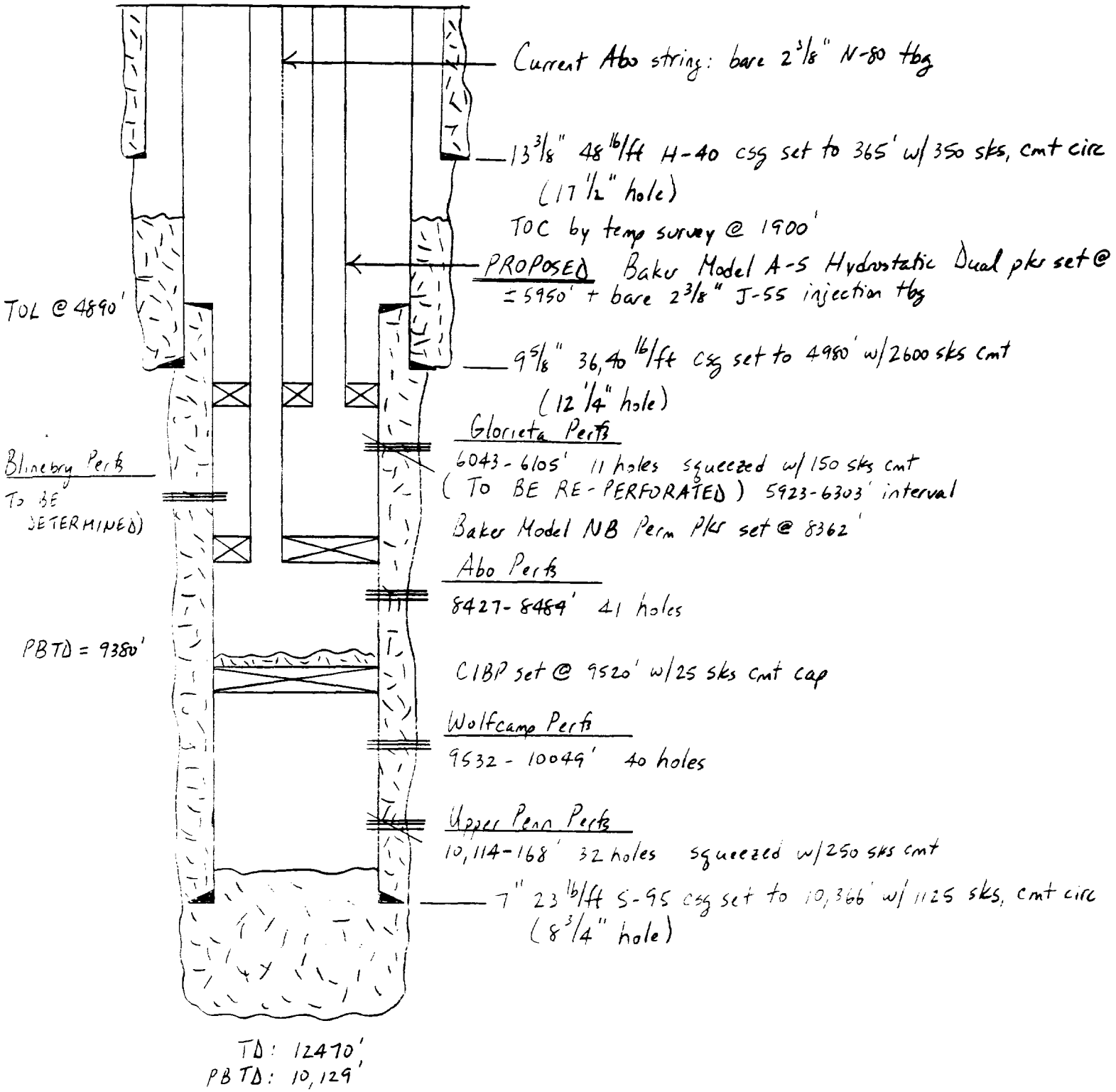
FIELD Vacuum Abo North **LOCATION** Unit N Sec 24 T17S R 34E

1830' FWL & 610' FSL Lea County, NM

SIGNED J G Elwood

GL 4007'
DF 4018
KB 4019
ZERO KB

PROPOSED DIAGRAM



NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-10?
5-1-6?

APPLICATION FOR MULTIPLE COMPLETION

Operator	County	Date
Mobil Exploration & Producing U.S. Inc.	Lea	6/15/90
Address	**Lease**	**Well No.**
Box 633, Midland, TX 79702	North Vacuum Abo Unit Bridges State	116

Location of Well	Unit	Section	Township	Range
	I	24	17S	34E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X

2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum Glorieta	Vacuum Blinebry	Vacuum Abo
b. Top and Bottom of Pay Section (Perforations)	5923-6303'	6303-7300'	8000-9272'
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection

4. The following are attached. (Please check YES or NO)

Yes	No	
X	☐	a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X	☐	b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X	☐	c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
☐	X	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

See attached list

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 6/15/90.

CERTIFICATE: I, the undersigned, state that I am the Environmental, Regulatory Loss Prevention Supervisor of the Mobil Exploration & Producing US Inc. As Agent for Mobil Producing Tx. & New Mexico Inc. Mobil Producing Texas & New Mexico Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Gary D. Miller
G. N. Miller — Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DATE 5-30-90 **WELL NO.** 116 **LEASE** North Vacuum Abo Unit

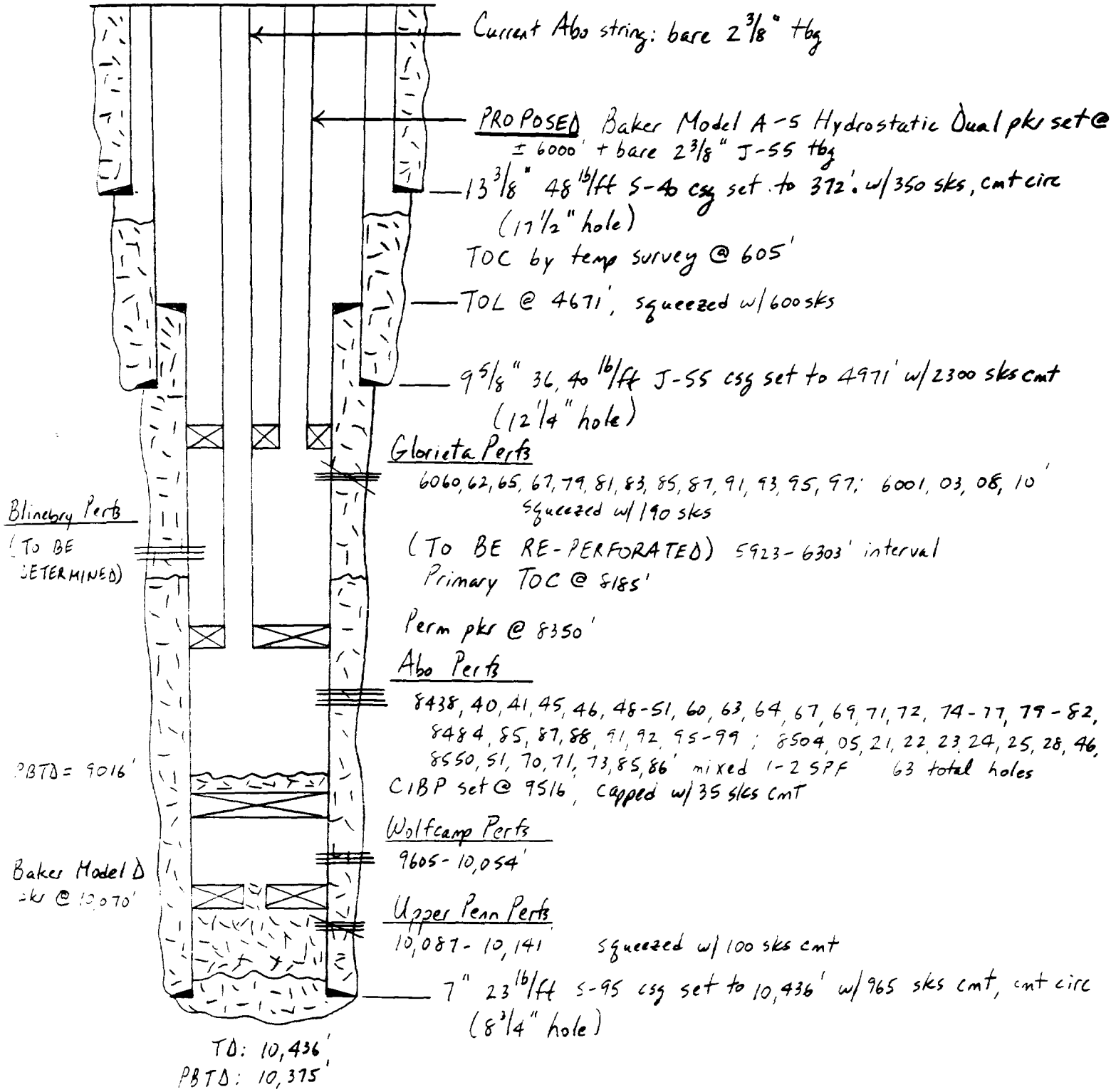
FIELD Vacuum Abo North **LOCATION** Unit I Sec 24 T17S R34E

1980' FSL & 510' FWL Lea County, NM

SIGNED DG Elwood

GL 4018'
DF 4029'
KB 4030'
ZERO 12' AGL

PROPOSED DIAGRAM



NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator	County	Date
Mobil Exploration & Producing U.S. Inc.	Lea	6/15/90
Address	**Lease**	**Well No.**
Box 633, Midland, TX 79702	North Vacuum Abo Unit Bridges State	119

Location of Well	Unit	Section	Township	Range
	F	24	17S	34E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum Glorieta	Vacuum Blinebry	Vacuum Abo
b. Top and Bottom of Pay Section (Perforations)	5923-6303'	6303-7300'	8000-9272'
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection

4. The following are attached. (Please check YES or NO)

Yes	No	
X		a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X		b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X		c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
	X	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.
See attached list

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 6/15/90.

CERTIFICATE: I, the undersigned, state that I am the Environmental, Regulatory Loss Prevention Supervisor of the Mobil Exploration & Producing US Inc As Agent for Mobil Producing Tx. & New Mexico Inc. Mobil Producing Texas & New Mexico Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Guy D. Miller
G. N. Miller — Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DATE 5-30-90 **WELL NO.** 119 **LEASE** North Vacuum Abo Unit

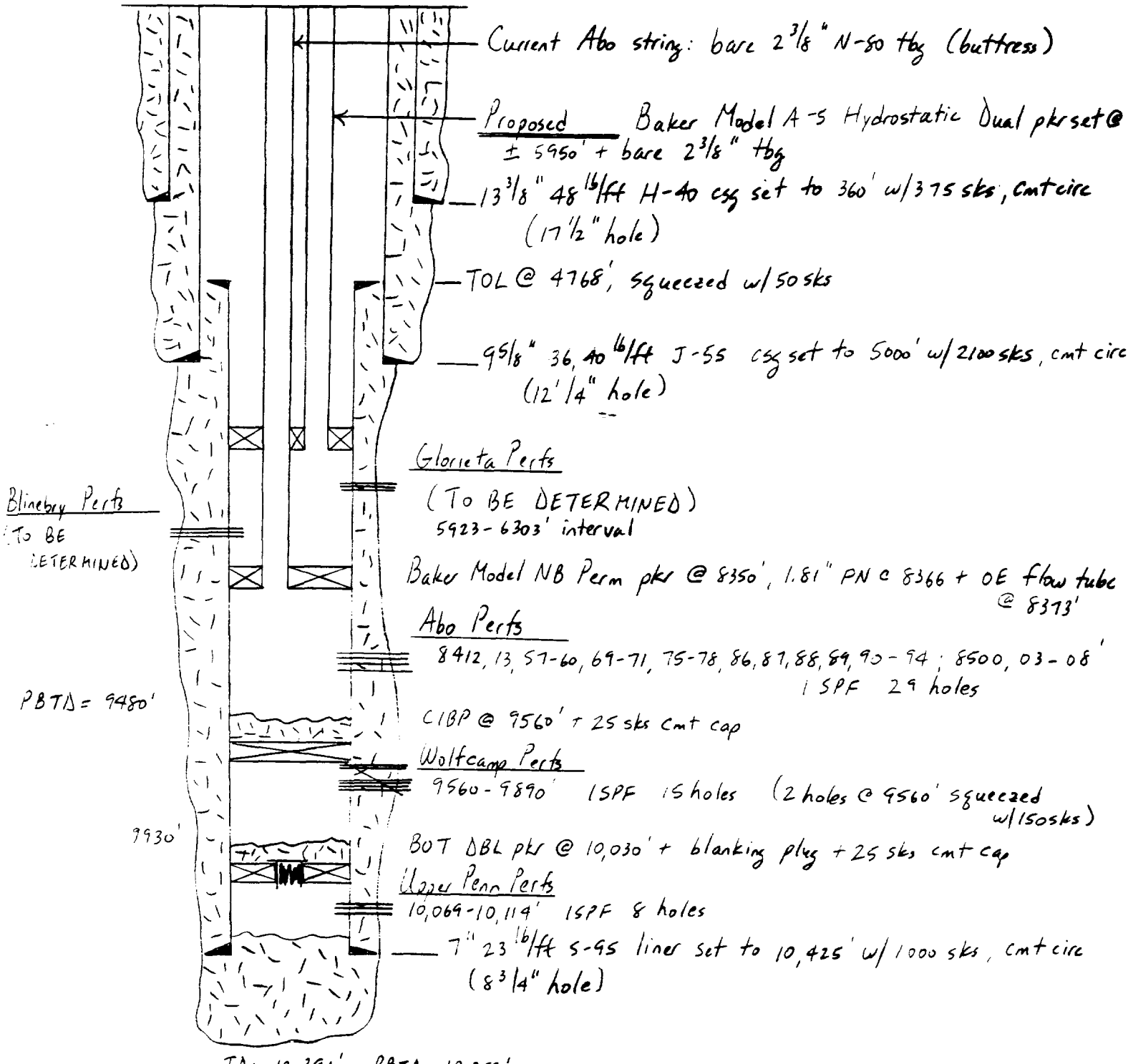
FIELD Vacuum Abo North **LOCATION** Unit F Sec 24 T17S R34E

1980' FNL & 1780' FWL Lea County, NM

SIGNED D G Elwood

GL 4013'
DF 4023
KB 4024
ZERO 10' AGL (KB)

PROPOSED DIAGRAM



NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator	County	Date
Mobil Exploration & Producing U.S. Inc.	Lea	6/15/90
Address	**Lease**	**Well No.**
Box 633, Midland, TX 79702	North Vacuum Abo Unit Bridges State	204

Location of Well	Unit	Section	Township	Range
	D	24	17S	34E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum Glorieta	Vacuum Blinebry	Vacuum Abo
b. Top and Bottom of Pay Section (Perforations)	5923-6303'	6303-7300'	8000-9272'
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection

4. The following are attached. (Please check YES or NO)

Yes	No	
X		a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X		b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X		c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
	X	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.
See attached list

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 6/15/90.

CERTIFICATE: I, the undersigned, state that I am the Environmental, Regulatory Loss Prevention Supervisor of the Mobil Exploration & Producing US Inc. As Agent for Mobil Producing TX & New Mexico Inc. Mobil Producing Texas & New Mexico Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Guy D. Miller
C. N. Miller — Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DATE 5-30-90 **WELL NO.** 204 **LEASE** North Vacuum Abo Unit

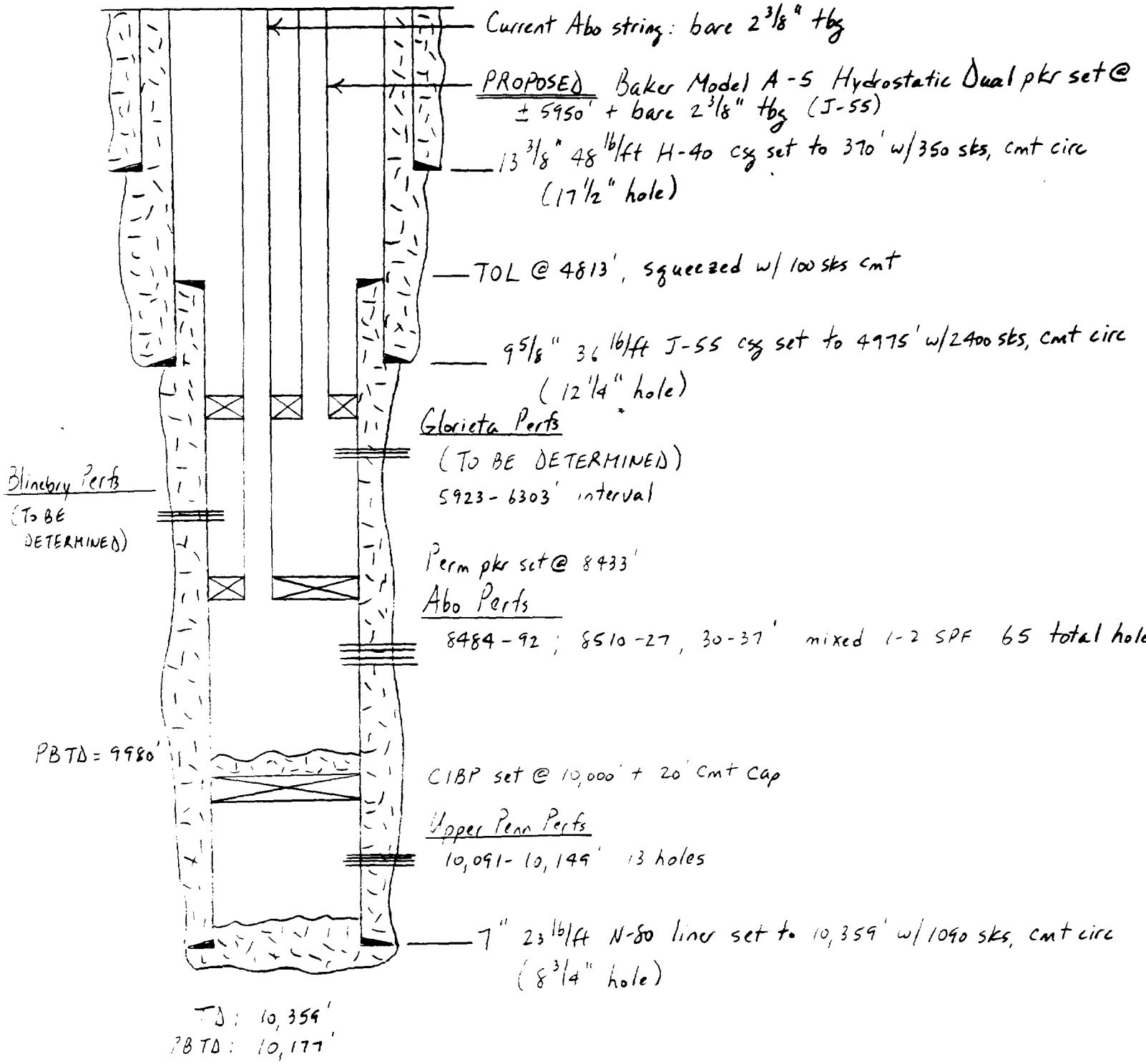
FIELD Vacuum Abo North **LOCATION** Unit D Sec 24 T17S R34E

660' FNL & 860' FWL Lea County, NM

SIGNED D G Elwood

GL 4020'
DF 4048
KB 4049
ZERO KB

PROPOSED DIAGRAM



Mobil Exploration & Producing U.S. Inc.

June 13, 1990

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

County Clerk
Ms. Pat Snipes
P.O. Box 1507
Lovington, New Mexico 88260

NOTICE OF APPLICATION FOR
WATER INJECTION WELLS
BRIDGES STATE WELLS 601 & 602, 109, 116,
VACUUM-GLORIETA POOL, 119, & 204
VACUUM-BLINEBRY POOL,
VACUUM-GRAYBURG-SAN ANDRES POOL
SEC. 24 & 25, T-17-S, R-34-E
LEA COUNTY, NEW MEXICO
Vacuum Abo North Pool

Dear Ms. Snipes:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico, to inject fresh water into a reservoir productive of oil or gas in the above captioned.

The Oil Conservation Division requires that the enclosed application be sent to you for public information notice in the county in which the well is located. Please post the attached application as you desire.

Yours very truly,

MOBIL EXPLORATION & PRODUCING U.S. INC.
AS AGENT FOR
MOBIL PRODUCING TEXAS & NEW MEXICO INC.

Guy D. Miller

G. N. Miller
Environmental, Regulatory and Loss
Prevention Supervisor

JWD

A:M15548C.JWD

Mobil Exploration & Producing U.S. Inc.

JUNE 8, 1990

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

Lovington Daily Leader
14 West Avenue B
Lovington, New Mexico 88260

NOTICE OF APPLICATION FOR
WATER INJECTION WELL
VACUUM FIELD
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico, Inc., has made application to the Oil Conservation Commission of New Mexico for authority to inject fresh water into a reservoir productive of oil or gas through the subject well.

The Oil Conservation Commission requires that a public notice of the attached information be published in the county in which the well is located. Please publish the attached notice as soon as possible and return the completed affidavit and a copy of the printed notice in the enclosed, stamped envelope. Send the invoice to the attention of J. W. Dixon.

Your very truly,

Mobil Exploration & Producing U.S.Inc.
as agent for
Mobil Producing Texas & New Mexico, Inc.

for G. N. Miller
Environmental & Regulatory,
Loss Prevention Supervisor

JWD

attachments

cc: Oil Conservation Commission
w/attachments

B:M15648A.JWD

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 109

   * Location: 1830 FWL; 610 FSL

   * Section: 24 ,T 17S ,R 34E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

   Injection Interval: see below to

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

		BWPD	PSIG
** -Glorieta	5923-6303	800	1200
Blinebry	6303-7300	200	1200
	8000-9272		

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 602

   * Location: 1190 FNL; 1260 FWL

   * Section: 25 (Unit D) ,T 17S ,R 34E

   * County: Lea

** 3. Formation Name: Grayburg-San Andres, Glorieta, Blinebry

   Injection Interval: See below to

   Maximum Injection Rate: See below

   Maximum Pressure: See below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

		BWPD	PSIG
** - Grayburg -San Andres -	4444-5923	~~800~~	~~950~~
Glorieta	5923-6303	800	1200
Blinebry	6303-7300	200	1200

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 601

   * Location: 1670 FNL; 2600 FWL

   * Section: 25 (F), T 17S, R 34E

   * County: Lea

3. Formation Name: Grayburg-San Andres, Glorieta, Blinebry

   Injection Interval: Grayburg-San Andres - 4444 - 5923
   Glorieta 5923 to 6303
   Blinebry 6303 7300

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta	800	1200
Blinebry	200	1200
Grayburg-San Andres	800	950

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 119

   * Location: 1830 FWL; 2030 FNL

   * Section: 24 ,T 17S ,R 34E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

   Injection Interval: see below to

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta - 5923-6303	800	1200
Blinebry - 6303-7300	200	1200

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 204

   * Location: 900 FWL; 660 FNL

   * Section: 24, T 17S, R 34E & 35E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

   Injection Interval: see below to _____

   Maximun Injection Rate: _____

   Maximum Pressure: _____

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta - 5923-6303	800	1200
Blinebry - 6303-7300	200	1200

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 116

   * Location: 510 FWL; 1880 FSL

   * Section: 24 ,T 17S ,R 34E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

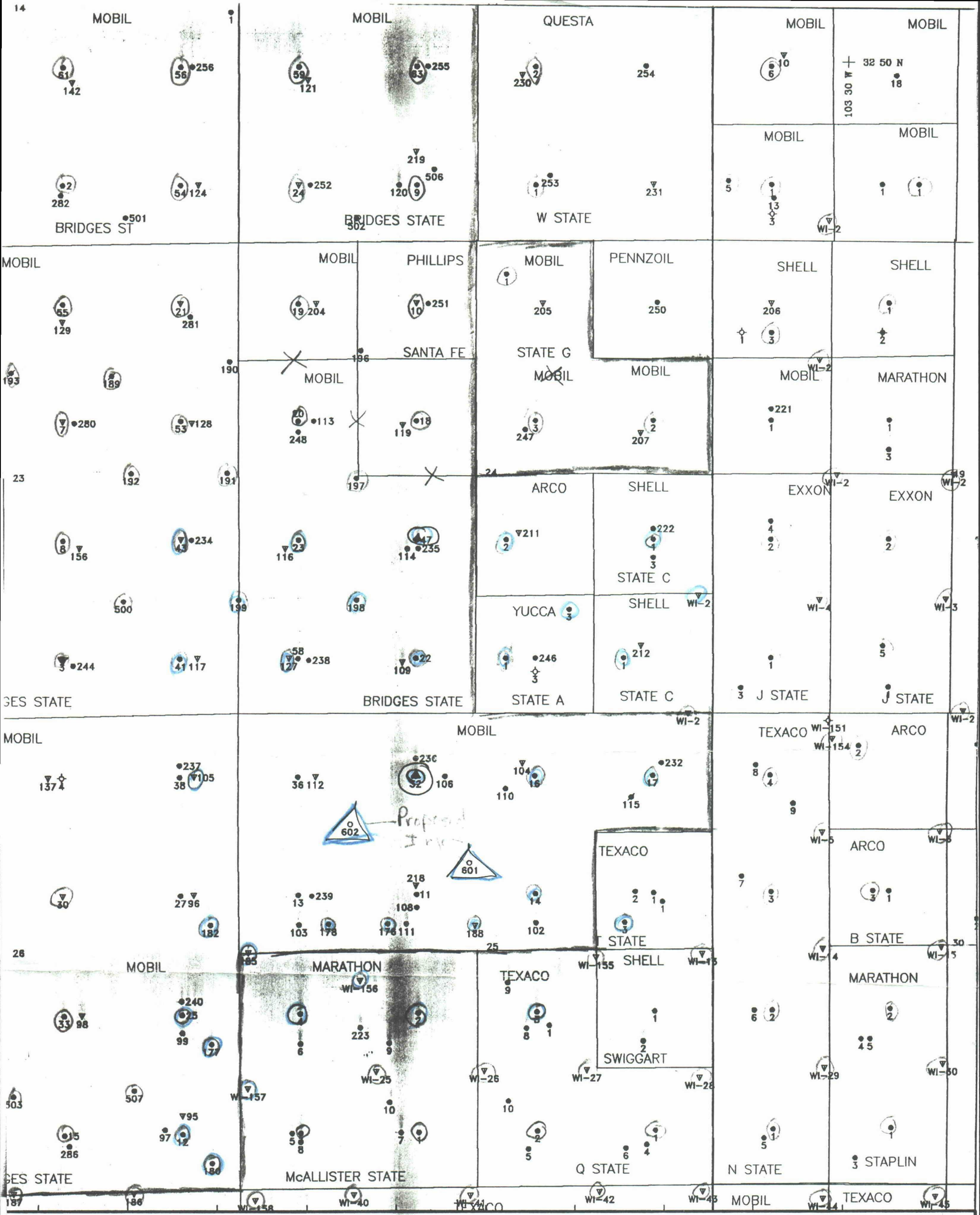
   Injection Interval: see below to

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta - 5923-6303	800	1200
Blinebry - 6303-7300	200	1200



LEGEND

- Producer
- Injector
- TA
- Gas Wells

0 500 1000 FEET

San Andres Producer/Injector
Active or inactive

Bridges State Coop San Andres Flood

Proposed San Andres Inj.

Mobil Exploration & Producing U.S.
Midland Division

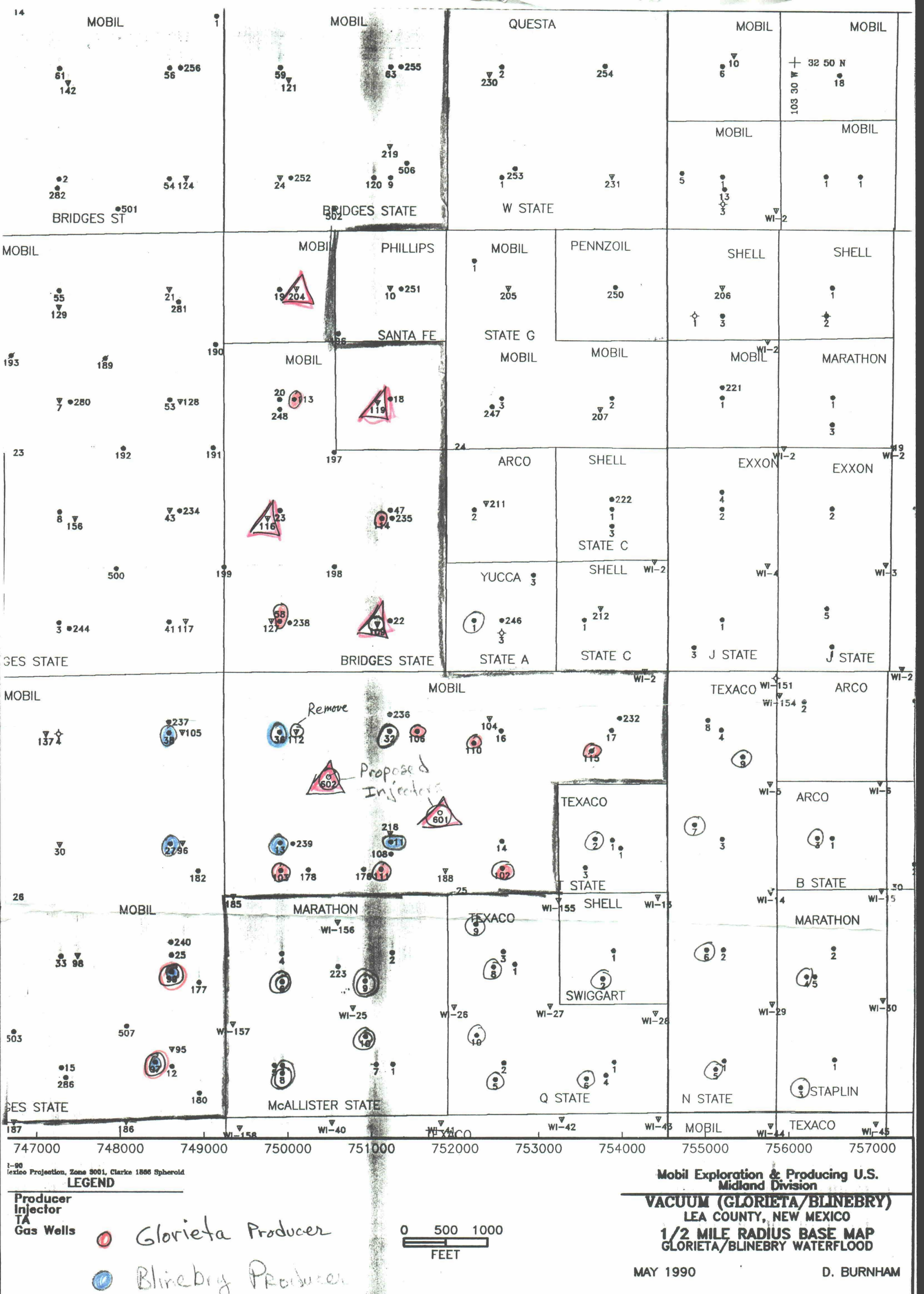
VACUUM (GLORIETA/BLINEBRY)

LEA COUNTY, NEW MEXICO

1/2 MILE RADIUS BASE MAP

GLORIETA/BLINEBRY WATERFLOOD

MAY 1990 D. BURNHAM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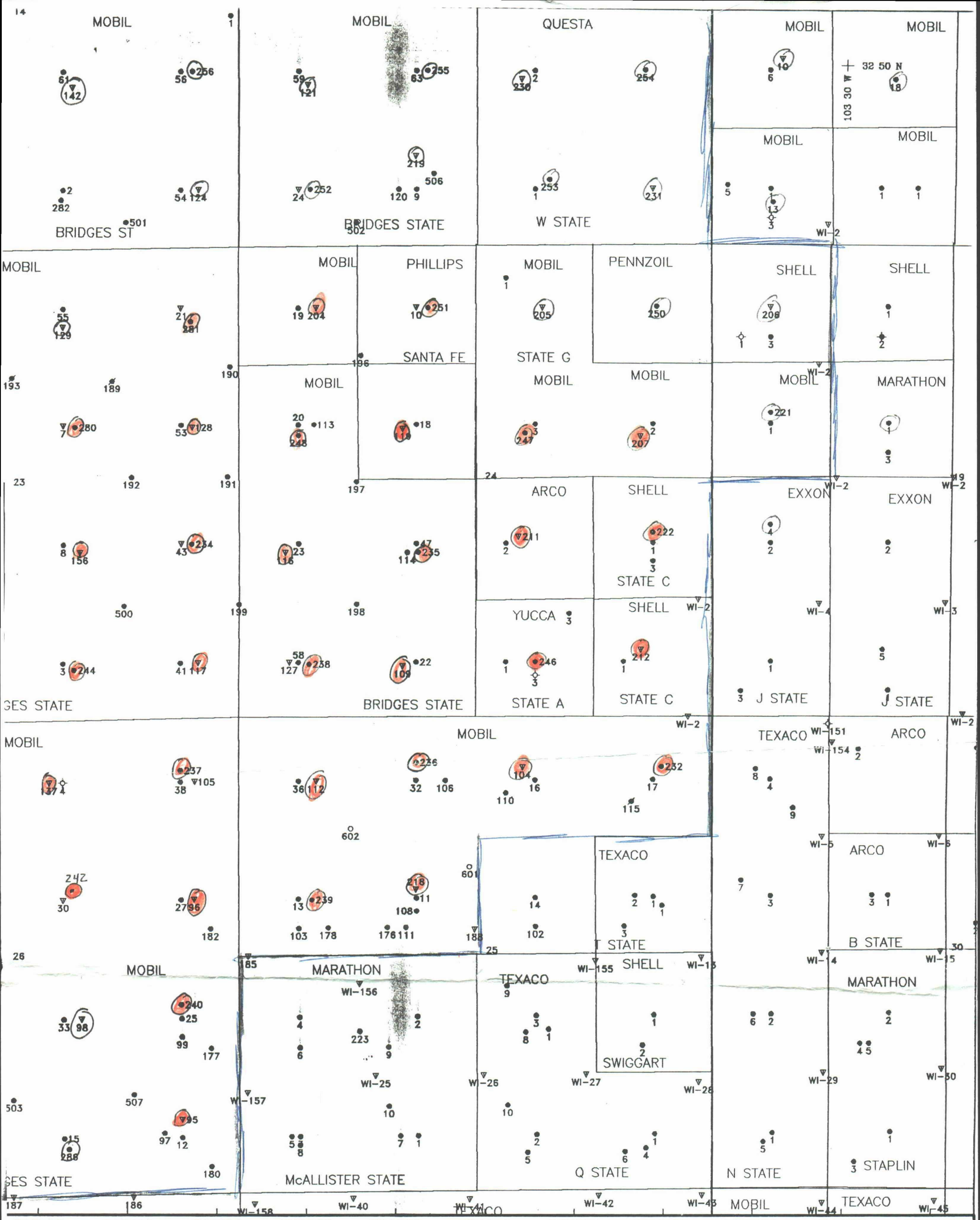
757000
Mexico Projection, Zone 3001, Clarke 1866 Spheroid
LEGEND
Producer
Injector
TA
Gas Wells
Glorieta Producer
Blinebry Producer
0 500 1000
FEET
Mobil Exploration & Producing U.S.
Midland Division
VACUUM (GLORIETA/BLINEBRY)
LEA COUNTY, NEW MEXICO
1/2 MILE RADIUS BASE MAP
GLORIETA/BLINEBRY WATERFLOOD
MAY 1990
D. BURNHAM
Bridges State Lease line
Proposed Glorieta/Blinebry INJector



?-90
lexico Projection, Zone 3001, Clarke 1866 Spheroid

LEGEND

- Producer
- Injector
- TA
- Gas Wells
- ABO INJECTOR
- Abo Producer/Injector
- North Vacuum ABO Unit Boundary

0 500 1000
FEET

Mobil Exploration & Producing U.S.
Midland Division

VACUUM (GLORIETA/BLINEBRY)
LEA COUNTY, NEW MEXICO
1/2 MILE RADIUS BASE MAP
GLORIETA/BLINEBRY WATERFLOOD

MAY 1990 D. BURNHAM

Mobil Exploration & Producing U.S. Inc.

June 15, 1990

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

RECEIVED

JUN 20 1990

OIL CONSERVATION DIVISION

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention: Florene Davidson

Case 10000

**NOTICE OF APPLICATION FOR UNORTHODOX WELL LOCATION, WATER INJECTION, AND DOWNHOLE COMMINGLE
BRIDGES STATE WELLS NO. 601 & 602
VACUUM-GLORIETA POOL,
VACUUM-BLINEBRY POOL,
VACUUM-GRAYBURG-SAN ANDRES POOL,
SEC. 25- T-17-S, R-34-E
LEA COUNTY, NEW MEXICO**

Dear Ms. Davidson:

Mobil Exploration & Producing U. S. Inc. (MEPUS), as Agent for Mobil Producing Texas & New Mexico Inc., respectfully requests authority to drill the subject wells at unorthodox locations and complete them as injectors in the San Andres, Glorieta and Blinebry formations. New Mexico Oil Conservation Department docket's case has been set for July 11, 1990.

To waterflood these zones efficiently, we request authority to inject a commingled stream into the Glorieta and Blinebry zones in each of these two wells. Injection into the Grayburg/San Andres will be through a second tubing string as a dual completion. We are enclosing a copy of Case No. 1493, Order No. R-1244 Pilot Water Flood administrative approval for the Grayburg-San Andres formation in the Vacuum Pool.

Information supporting the application is presented on Forms, C-101, C-102, 107 and C-108. C-108 is included for the Glorieta and Blinebry formations and these reservoirs are not currently authorized for secondary recovery projects.

B:M015548a.JWD

Mobil

An offset who recently received downhole commingling approval is the Marathon McAllister State No.9, Case DHC-751 dated February 20, 1990. These wells meet all prerequisites for commingling, as set out in Rule 303(C). The ownership of these zones is common and has been successfully commingled on adjacent leases with no incompatibility of fluids found.

In additional support, the following is attached:

1. List of Exhibits containing information common to several application NMOCD forms.

2. Certified address list of Offset Operators and mineral owners notified together with attached waivers.

3. Copy of Affidavit of publication and newspaper clipping for Notice of Application for Water Injection Well will be forthcoming.

4. Copy of letter to County Clerk.

In conclusion, MEPUS believes that approval of this request will result in more efficient recovery of hydrocarbons and will extend the productive life of both zones, thereby preventing waste. If any further information is needed, please contact J. W. Dixon at (915) 688-2452.

Yours very truly,

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

Guy D. Miller

G. N. Miller
Environmental, Regulatory and
Loss Prevention Supervisor

JWD/fc

Attachments

cc: w/attachments
Oil Conservation Division - Hobbs
Offset Operators
Mineral Owners
County Clerk

B:MO15548a.JWD

Mobil

An offset who recently received downhole commingling approval is the Marathon McAllister State No.9, Case DHC-751 dated February 20, 1990. These wells meet all prerequisites for commingling, as set out in Rule 303(C). The ownership of these zones is common and has been successfully commingled on adjacent leases with no incompatibility of fluids found.

In additional support, the following is attached:

1. List of Exhibits containing information common to several application NMOCD forms.

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3. Copy of Affidavit of publication and newspaper clipping for Notice of Application for Water Injection Well will be forthcoming.

4. Copy of letter to County Clerk.

In conclusion, MEPUS believes that approval of this request will result in more efficient recovery of hydrocarbons and will extend the productive life of both zones, thereby preventing waste. If any further information is needed, please contact J. W. Dixon at (915) 688-2452.

Yours very truly,

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

Guy D. Miller

G. N. Miller
Environmental, Regulatory and
Loss Prevention Supervisor

JWD/fc
Attachments

cc: w/attachments
Oil Conservation Division - Hobbs
Offset Operators
Mineral Owners
County Clerk

bcc: w/attachments
Drlg. Engr. Sec.
Drlg Supt - G. H. Huff
Proration Acct.
Central Files
Regulatory Files
Oper. Supv. - R. P. Pratt
Prod. Engr. Supv (Sub Surface) - K. Walters
Res. Engr. Supv - L. Marczynski
W. Perry Pearce, Box 2037, Santa Fe, New Mexico 88201

MOBIL EXPLORATION & PRODUCING U.S. INC.
SECTION 24 and 25, T-17-S, R-34-E
VACUUM FIELD
LEA COUNTY, NEW MEXICO

This application was sent by certified mail to the surface owner of the land on which the well is located and to each offset operator/mineral owner.

OFFSET OPERATOR

ATTN: S. C. SCHRAUB
MARATHON OIL COMPANY
P. O. BOX 552
MIDLAND, TEXAS 79702-0552

ATTN: A. W. DEES
TEXACO, INC.
BOX 3109
MIDLAND, TEXAS 79702-3109

SHELL WESTERN E & P INC.
P.O. BOX 576
HOUSTON, TEXAS 77001

NEW YORK LIFE OIL & GAS ET AL
2100 NCNB CENTER
700 LOUISIANA
HOUSTON, TEXAS 77002

EXXON COMPANY, U.S.A.
BOX 2180
HOUSTON, TEXAS 77252-2180

THE MCBEE COMPANY, A TEXAS
GENERAL PARTNERSHIP
3738 OAK LAWN, AVE. LB 200
DALLAS, TEXAS 75201

ARTHUR L. BOOTH, ET UX
1905 CARMEL
PLANO, TEXAS 75077

PETRO LEWIS CORPORATION
717 17TH STREET
DENVER, COLORADO 80202

JOHN E. STEIN, TRUST OR
SUCCESSOR IN TRUST OF THE
JOHN E. STEIN REVOCABLE TRUST
3953 SOUTH NEWPORT WAY
DENVER, COLORADO 80237

AMERICAN PRODUCTION & EXPL.
2100 NCNB CENTER
700 LOUISIANA
HOUSTON, TEXAS 77080

JOHN G. MCMILLIAN, JR.
OFFICE IN THE GROVE SUITE 800F
2699 SOUTH BAYSHORE DRIVE
COCONUT GROVE, FLORIDA 33133

PHILLIPS PETROLEUM COMPANY
4001 PENBROOK
ODESSA, TEXAS 79762

ARCO
BOX 1610
MIDLAND, TEXAS 79702

YUCCA SALVAGE COMPANY
4000 NORTH BIG SPRING
SUITE 305
MIDLAND, TX 79705

MINERAL OWNER & SURFACE OWNER

STATE OF NEW MEXICO
BOX 2088
SANTA FE, NEW MEXICO 87501

B:MO15548a.JWD

W A I V E R

MOBIL EXPLORATION & PRODUCING U. S. INC.
P. O. BOX 633
MIDLAND, TEXAS 79702

ATTN: J. W. DIXON

NOTICE OF APPLICATION FOR UNORTHODOX WELL LOCATIONS, WATER INJECTION, DOWNHOLE COMMINGLE AND DUAL COMPLETION BRIDGES STATE WELLS VACUUM-GLORIETA,VACUUM-BLINEBRY AND VACUUM -GRAYBURG SAN ANDRES POOLS LEA COUNTY, NEW MEXICO

Gentlemen:

We, the undersigned, have been furnished a copy of Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc.'s application to drill the subject wells on an unorthodox location under the provisions of Rule 104 (F) and NMOCD Rule 1207- Notification Requirement. It is requested to downhole commingle the Glorieta and Blinebry injection in one tubing string and dual Grayburg/San Andres injection with a second tubing string. Please be informed that we, as an offset operator/mineral owner, have no object to the drilling of this well as set forth in MEPUS's application dated June 15, 1990.

Yours truly,

Company: _____

Representative: _____

Signature: _____

Title: _____

Date: _____

B:M015548a.JWD

Mobil Exploration & Producing U.S. Inc.

June 13, 1990

County Clerk
Ms. Pat Snipes
P.O. Box 1507
Lovington, New Mexico 88260

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

NOTICE OF APPLICATION FOR
WATER INJECTION WELLS
BRIDGES STATE WELLS 601 & 602
VACUUM-GLORIETA POOL,
VACUUM-BLINEBRY POOL,
VACUUM-GRAYBURG-SAN ANDRES POOL
SEC. 24 & 25, T-17-S, R-34-E
LEA COUNTY, NEW MEXICO

Dear Ms. Snipes:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico, to inject fresh water into a reservoir productive of oil or gas in the above captioned.

The Oil Conservation Division requires that the enclosed application be sent to you for public information notice in the county in which the well is located. Please post the attached application as you desire.

Yours very truly,

MOBIL EXPLORATION & PRODUCING U.S. INC.
AS AGENT FOR
MOBIL PRODUCING TEXAS & NEW MEXICO INC.

Guy D. Miller

G. N. Miller
Environmental, Regulatory and Loss
Prevention Supervisor

JWD

B:MO15548a.JWD

EXHIBITS CONTAINING INFORMATION COMMON TO NMOCD APPLICATION FORMS

- LIST OF OFFSET OPERATORS/MINERAL OWNERS
- LIST OF WELLS WITHIN ONE-HALF MILE OF SUBJECT WELLS
- WELLBORE SKETCHES OF P&A'D WELLS IN AREA
- NORTH VACUUM ABO UNIT NO. 109 WELL LOG
- MAP OF ALL WELLS WITHIN TWO MILES
- MAP OF ALL WELLS WITHIN 0.5 MILES
- WATER ANALYSES PREPARED BY MARTIN WATER LABORATORIES, INC.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

RECEIVED
JUN 20 1990
OIL CONSERVATION DIVISION

FORM C-108
Revised 7-1-81

Case 10000

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Blinebry Field

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

II. **Operator:** Mobil Exploration & Producing U.S., Inc. as Agent for
Address: Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702

Contact party: G. N. Miller **Phone:** (915) 688-1753

III. **Well data:** Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. **Is this an expansion of an existing project?** ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. N. Miller **Title** Environmental, Regulatory & Loss Prevention Supervisor

Signature: Guy D. Miller **Date:** 6/15/90

* 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. _____

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

OIL CONSERVATION DIVISION
ATTACHMENT TO
NEW MEXICO FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery

II. Operator: Mobil Exploration & Producing U.S. Inc. as Agent for
Mobil Producing Texas & New Mexico Inc.
Address: P.O. Box 633 Midland, TX 79702
Contact Party: G.N. Miller, Supv Environmental and Regulatory (915) 688-2000

III. Well Data
A. See attached schematics
B. 1. Vacuum Blinebry Field
2. Injection interval: 6303' - 7300' (NVAU #109 type log)
3. Original use of wellbore:
Bridges State #601 - inject into Glorieta + Blinebry
Bridges State #602 - inject into Glorieta + Blinebry
** North Vacuum Abo Unit #109 - inject into Glorieta + Blinebry
** North Vacuum Abo Unit #116 - inject into Glorieta + Blinebry
** North Vacuum Abo Unit #119 - inject into Glorieta + Blinebry
** North Vacuum Abo Unit #204 - inject into Glorieta + Blinebry
4. See attached schematics
5. Next higher oil-producing zone (both wells)
Glorieta: 5923' - 6303' (NVAU #109 type log)
5. Next lower oil-producing zone (both wells)
Abo: 8000' - 9272' (NVAU #109 type log)

IV. Is this an expansion of an existing project? No

V. See attached map

VI. See attached table and wellbore schematic

VII. 1. Average daily injection rate: 100 BWPD
Maximum daily injection rate: 200 BWPD
2. Closed system
3. Average injection pressure: 1000 psig
Maximum daily injection pressure: 1200 psig
4. Proposed injection fluid: fresh water
See attached exhibits for fluid compatibility
5. Not applicable

VIII. See attached cross-sections

IX. Proposed stimulation program - 8000 gal 15% DI NEFE HCL acid

X. Logs on file

XI. See attached table

XII. Not applicable

XIII. See attached notices (see offset operator/mineral owner list)

** Subject of another application package

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

RECEIVED
JUN 20 1990
OIL CONSERVATION DIVISION

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Grayburg/San Andres Field

I. Purpose: [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. Operator: Mobil Exploration & Producing U.S., Inc. as Agent for
Address: Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702

Contact party: G. N. Miller Phone: (915) 688-1753

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-1244 dated 9/17/58.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. N. Miller Title Environmental, Regulatory & Loss Prevention Supervisor

Signature: Guy D. Miller Date: 6/15/90

* 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.

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

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:

(1) 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 wells 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 Oil 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.

EXHIBIT TO ITEM XI
FORM C-108

VACUUM FIELD FRESH WATER WELLS
LEA COUNTY, NEW MEXICO
CHLORIDE CONTENT (PPM)

I.D. WELL DESCRIPTION	1990 MARCH	LOCATION
TEXACO CVU SUPPLY WELL NO. 1	*	Unit M Sec 30 T17S R35E
BUCKEYE STORE WATER WELL	36	Unit P Sec 25 T17S R34E
FORKLIFT ENT. BUCKEYE STATION	*	Unit D Sec 30 T17S R35E
NVAU NO. 100	169	Unit J Sec 14 T17S R34E
NVAU NO. 101	122	Unit D Sec 14 T17S R34E
BRIDGES STATE NO. 179	41	Unit P Sec 14 T17S R34E
BRIDGES STATE NO. 94	80	Unit J Sec 14 T17S R34E
RANCH WINDMILL	31	Unit N Sec 18 T17S R35E
AMAX NO. 6	55	Unit D Sec 26 T17S R34E
MOBIL OFFICE WATER WELL	60	Unit B Sec 25 T17S R34E
LEE PLANT SUPPLY WELL NO. 3	160	Unit B Sec 31 T17S R35E
LEE PLANT SUPPLY WELL NO. 4	- *	Unit D Sec 31 T17S R35E
MOBIL SUPPLY WELL NO. S09	*	Unit H Sec 24 T17S R34E

*Inactive, unable to test

OIL CONSERVATION DIVISION
ATTACHMENT TO
NEW MEXICO FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Grayburg/San Andres Field

I. Purpose: Secondary Recovery

II. Operator: Mobil Exploration & Producing U.S. Inc. as Agent for
Mobil Producing Texas & New Mexico Inc.
Address: P.O. Box 633 Midland, TX 79702
Contact Party: G.N. Miller, Supv Environmental and Regulatory (915) 688-2000

III. Well Data
A. See attached schematics
B. 1. Vacuum Grayburg San Andres Field
2. Injection interval: 4444' - 5923' (NVAU #109 type log)
3. Original use of wellbore:
Bridges State #601 - inject into Glorieta + Blinebry
Bridges State #602 - inject into Glorieta + Blinebry
4. See attached schematics
5. Next higher oil-producing zone (both wells)
Yates: 2886' - 3810' (NVAU #109 type log)
5. Next lower oil-producing zone (both wells):
Glorieta: 5923' - 6303' (NVAU #109 type log)

IV. Is this an expansion of an existing project? Yes, Order #R-1244 dated 9-17-58

V. See attached map

VI. Previously submitted

VII. 1. Average daily injection rate: 400 BWPD
Maximum daily injection rate: 800 BWPD
2. Closed system
3. Average injection pressure: 950 psig
Maximum daily injection pressure: 950 psig
4. Proposed injection fluid: fresh water
See attached exhibits for fluid compatibility
5. Not applicable

VIII. See attached cross-sections

IX. Proposed stimulation program - 8000 gal 15% DI NEFE HCL acid

X. Logs to be furnished after wells have completed

XI. See attached table

XII. Not applicable

XIII. See attached notices -(See offset operator/mineral owner list)

EXHIBIT TO ITEM XI
FORM C-108

VACUUM FIELD FRESH WATER WELLS
LEA COUNTY, NEW MEXICO
CHLORIDE CONTENT (PPM)

I.D. WELL DESCRIPTION	1990 MARCH	LOCATION
TEXACO CVU SUPPLY WELL NO. 1	*	Unit M Sec 30 T17S R35E
BUCKEYE STORE WATER WELL	36	Unit P Sec 25 T17S R34E
FORKLIFT ENT. BUCKEYE STATION	*	Unit D Sec 30 T17S R35E
NVAU NO. 100	169	Unit J Sec 14 T17S R34E
NVAU NO. 101	122	Unit D Sec 14 T17S R34E
BRIDGES STATE NO. 179	41	Unit P Sec 14 T17S R34E
BRIDGES STATE NO. 94	80	Unit J Sec 14 T17S R34E
RANCH WINDMILL	31	Unit N Sec 18 T17S R35E
AMAX NO. 6	55	Unit D Sec 26 T17S R34E
MOBIL OFFICE WATER WELL	60	Unit B Sec 25 T17S R34E
LEE PLANT SUPPLY WELL NO. 3	160	Unit B Sec 31 T17S R35E
LEE PLANT SUPPLY WELL NO. 4	- *	Unit D Sec 31 T17S R35E
MOBIL SUPPLY WELL NO. S09	*	Unit H Sec 24 T17S R34E

*Inactive, unable to test

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

Case 10000

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Glorieta Field

I. **Purpose:** [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. **Operator:** Mobil Exploration & Producing U.S., Inc. as Agent for
Address: Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702

Contact party: G. N. Miller **Phone:** (915) 688-1753

III. **Well data:** Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. **Is this an expansion of an existing project?** [ ] yes [X] no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. N. Miller **Title** Environmental, Regulatory & Loss Prevention Supervisor

Signature: G. N. Miller **Date:** 6/15/90

* 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. _____

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

OIL CONSERVATION DIVISION
ATTACHMENT TO
NEW MEXICO FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Glorieta Field

I. Purpose: Secondary Recovery

II. Operator: Mobil Exploration & Producing U.S. Inc. as Agent for
Mobil Producing Texas & New Mexico Inc.
Address: P.O. Box 633 Midland, TX 79702
Contact Party: G.N. Miller, Supv Environmental and Regulatory (915) 688-2000

III. Well Data
A. See attached schematics
B. 1. Vacuum Glorieta Field
2. Injection interval: 5923' - 6303' (NVAU #109 type log)
3. Original use of wellbore:
NVAU #109 - produce Upper Penn Formation
NVAU #116 - produce Upper Penn Formation
NVAU #119 - produce Upper Penn Formation
NVAU #204 - produce Upper Penn Formation
Bridges State #601 - inject into Glorieta
Bridges State #602 - inject into Glorieta
4. See attached schematics
5. Next higher oil-producing zone (all 6 wells)
Grayburg: San Andres 4444' - 5923' (NVAU #109 type log)
5. Next lower oil-producing zone (all 6 wells)
Blinebry: 6303' - 7300' (NVAU #109 type log)

IV. Is this an expansion of an existing project? No

V. See attached map

VI. See attached table and wellbore schematic

VII. 1. Average daily injection rate: 400 BWPD
Maximum daily injection rate: 800 BWPD
2. Closed system
3. Average injection pressure: 1000 psig
Maximum daily injection pressure: 1200 psig
4. Proposed injection fluid: fresh water
See attached exhibits for fluid compatibility
5. Not applicable

VIII. See attached cross-sections

IX. Proposed stimulation program - 8000 gal 15% DI NEFE HCL acid

X. Logs on file

XI. See attached table

XII. Not applicable

XIII. See attached notices (see offset operator/mineral owner list)

EXHIBIT TO ITEM XI
FORM C-108

VACUUM FIELD FRESH WATER WELLS
LEA COUNTY, NEW MEXICO
CHLORIDE CONTENT (PPM)

I.D. WELL DESCRIPTION	1990 MARCH	LOCATION
TEXACO CVU SUPPLY WELL NO. 1	*	Unit M Sec 30 T17S R35E
BUCKEYE STORE WATER WELL	36	Unit P Sec 25 T17S R34E
FORKLIFT ENT. BUCKEYE STATION	*	Unit D Sec 30 T17S R35E
NVAU NO. 100	169	Unit J Sec 14 T17S R34E
NVAU NO. 101	122	Unit D Sec 14 T17S R34E
BRIDGES STATE NO. 179	41	Unit P Sec 14 T17S R34E
BRIDGES STATE NO. 94	80	Unit J Sec 14 T17S R34E
RANCH WINDMILL	31	Unit N Sec 18 T17S R35E
AMAX NO. 6	55	Unit D Sec 26 T17S R34E
MOBIL OFFICE WATER WELL	60	Unit B Sec 25 T17S R34E
LEE PLANT SUPPLY WELL NO. 3	160	Unit B Sec 31 T17S R35E
LEE PLANT SUPPLY WELL NO. 4	- *	Unit D Sec 31 T17S R35E
MOBIL SUPPLY WELL NO. S09	*	Unit H Sec 24 T17S R34E

*Inactive, unable to test

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 1493
Order No. R-1244

APPLICATION OF MAGNOLIA PETROLEUM COMPANY FOR PERMISSION TO INSTITUTE A PILOT WATER FLOOD PROJECT ON ITS STATE BRIDGES LEASE IN THE VACUUM POOL, LEA COUNTY, NEW MEXICO, AND FOR THE ESTABLISHMENT OF AN ADMINISTRATIVE PROCEDURE WHEREBY SAID PROJECT MAY BE EXPANDED WITHIN THE LIMITS OF THE STATE BRIDGES LEASE AND FOR THE ESTABLISHMENT OF AN ADMINISTRATIVE PROCEDURE FOR THE ASSIGNMENT OF A PROJECT OR LEASE ALLOWABLE FOR SAID PROJECT.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m, on August 13, 1958, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 17th day of September, 1958, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Magnolia Petroleum Company, is the owner and operator of the State Bridges Lease in the Vacuum Pool, which lease comprises all or portions of Sections 3, 10, 11, 12, 13, 14, 15, 23, 24, 25, 26, and 27, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(3) That the applicant proposes to institute a pilot water flood project on said State Bridges Lease by the injection of water into the Grayburg-San Andres formation in the Vacuum Pool through the

following-described wells:

Bridges Well No. 2, SW/4 SE/4 Section 14

Bridges Well No. 37, NE/4 SW/4 Section 14

Bridges Well No. 56, NE/4 SE/4 Section 14

Bridges Well No. 64, SW/4 NE/4 Section 14

Bridges Well No. 66, SW/4 NW/4 Section 14

Bridges Well No. 71, NE/4 NW/4 Section 14

all in Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(4) That applicant further proposes that it be authorized to convert any other well located on the State Bridges Lease to water injection, without notice and hearing, subject to administrative approval by the Commission.

(5) That applicant further proposes that an administrative procedure be established for granting a project or lease allowable.

(6) That the proposed pilot water flood project will no adversely affect the interests of any other operator in the Vacuum Pool.

(7) That the applicant should be permitted to inject water into the Grayburg-San Andres formation in the Vacuum Pool through the six proposed injection wells described above; provided however, that prior to the use of the aforesaid Bridges Well No. 2 as a water injection well, a packer should be installed at a depth of 400 feet or more.

(8) That an administrative procedure should be established whereby approval may be granted for conversion to water injection of any well located on the State Bridges Lease when it is established to the satisfaction of the Secretary-Director that the proposed water injection well has experienced a substantial response to the water flood project or is directly offset by a producing well which has experienced such response; provided however, that no well should be eligible for administrative approval for water injection if said well is located nearer than 1320 feet to the outer boundary of the said State Bridges Lease. For purposes of this order any lease unitized with said State Bridges Lease should be considered as a part of the State Bridges Lease.

(9) That applicant stipulated that the State Engineer is an interested party and is to be notified of any request for expansion of the said pilot project.

(10) That a procedure should be established whereby a project allowable may be granted administratively. Said project allowable should be determined by multiplying top unit allowable times the number of developed 40-acre tracts which directly or diagonally offset an authorized injection well plus top unit allowable times the number of 40-acre tracts on which an authorized injection well is located, which allowable may be produced from any well or wells within said project area.

IT IS THEREFORE ORDERED:

(1) That Magnolia Petroleum Company be and the same is hereby authorized to immediately convert for the purpose of water injection into the Grayburg-San Andres formation, the following-described wells:

Bridges Well No. 2, SW/4 SE/4 Section 14

Bridges Well No. 37, NE/4 SW/4 Section 14

Bridges Well No. 56, NE/4 SE/4 Section 14

Bridges Well No. 64, SW/4 NE/4 Section 14

Bridges Well No. 66, SW/4 NW/4 Section 14

Bridges Well No. 71, NE/4 NW/4 Section 14

all in Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, provided however, that prior to the use of said Bridges Well No. 2, as a water injection well, a packer shall be installed at a depth of 400 feet or more.

(2) That Magnolia Petroleum Company be and the same is hereby authorized to convert to water injection any well located on the State Bridges Lease in the Vacuum Pool, subject to administrative approval by the Commission. The State Bridges Lease consists of the following-described acreage:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 3: W/2 NE/4 and SE/4
Section 10: NE/4
Section 11: S/2
Section 12: S/2 and NE/4
Section 13: N/2 and SW/4

(3) That an administrative procedure be and the same is hereby established for granting applicant a project allowable which may be produced from any well or wells within said project area.

PROVIDED HOWEVER, That in no event shall the project allowable be greater than an amount to be determined by multiplying top unit allowable times the number of developed 40-acre tracts which directly or diagonally offset an authorized injection well plus top unit allowable times the number of 40-acre tracts on which an authorized injection well is located.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

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EXHIBIT "A"
DATA SHEET

APPLICATION FOR EXCEPTION TO RULE 303(a) NEW MEXICO OIL CONSERVATION COMMISSION'S RULES & REGULATIONS ALLOWING DOWNHOLE COMMINGLING OF DUALLY COMPLETED OIL WELLS BY ADMINISTRATIVE PROCEDURE (ORDER NO. R-3845)

1. Lease Name Bridges State 601,602, 109, 116, 119, and 204

2. Well No. 601, 602, 109, 116, 119, 204

3. Well Location: Unit ____, _____ feet from _____ line,
SEE PLATS
_____ feet from _____ line of Section _____,
Township _____ Range _____, Lea County,
New Mexico

4. Upper Zone Glorieta

5. Completion Interval (NVAU log) Glorieta 5923-6303

6. Lower Zone Blinebry

7. Completion Interval (NVAU Log) Blinebry 6303-7300

8. Current Productivity Test Summary

	Vacuum Glorieta (Upper Zone)	Vacuum Blinebry (Lower Zone)
Producing Method	Proposed Valves water injection	water injection
Oil Bbl./day	------	---------
Gas Mcf/day	------	---------
Water Bbl/day	800	200
GOR	------	---------
GOR Limit	------	---------

* 9. Bottom-hole Pressure of Upper Zone 400 PSI (Vacuum Glorieta)

* 10. Bottom-hole Pressure of Lower Zone 550 PSI (Vacuum Blinebry

11. Fluid Characteristics of Each Zone
Glorieta 36-38° API OIL
Blinebry 36-38° API Oil

* Estimated by static fluid level

EXHIBIT "B"

COMPUTATION OF RELATIVE VALUES OF THE HYDROCARBON PRODUCTIVE BEFORE AND AFTER DOWNHOLE COMMINGLING (STATEWIDE RULE 303-C-2-H)

Lease and Well No. Bridges State #601, 602, 109, 116, 119, and 204

	UPPER POOL PROPOSED	LOWER POOL	COMMINGLED
Pool Name	Vacuum Glorieta	Vacuum Blinebry	Glorieta/Blinebry
Gravity, API			
Selling price/BBL.			
Daily Producint/BBL.			
Daily Income			

TOTAL DAILY INCOME (POOLS SEPARATED) _____

Net difference realized from downhole commingling based on current well test= _____ gain.

REMARKS: DESCRIPTION OF OPERATION:

Injection in the Vacuum Glorieta and Vacuum Blinebry will be performed using one tubing string. The combined injection rate will be regulated at the surface. There will be no downhole equipment to regulate injection per zone. See attached sketch for proposed operation.

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025020260001	MOBIL	BRIDGES-ST	1	T017S	R034E	S13	4900	P&A	19360731
30025020260000	MOBIL	BRIDGES-ST	1	T017S	R034E	S13	4900	P&A	19290822
30025220520000	MOBIL	BRIDGES-ST	107	T017S	R034E	S13	4750	OIL	19670401
30025239790000	MOBIL	BRIDGES-ST	169	T017S	R034E	S13	8800	INJ	19720306
30025020190000	MOBIL	BRIDGES-ST	45	T017S	R034E	S13	4673	P&A	19391012
30025292600000	MOBIL	BRIDGES-ST	502	T017S	R034E	S13	4800	OIL	19850813
30025295630000	MOBIL	BRIDGES-ST	506	T017S	R034E	S13 S	12505	OIL	19860326
30025297200000	MOBIL	BRIDGES-ST	513	T017S	R034E	S13 S	11550	OIL	19861202
30025020210000	MOBIL	BRIDGES-ST	59	T017S	R034E	S13	4670	P&A	19400426
30025020220000	MOBIL	BRIDGES-ST	63	T017S	R034E	S13	4675	INJ	19400524
30025020230000	MOBIL	BRIDGES-ST	69	T017S	R034E	S13	4670	OIL	19400620
30025020240000	MOBIL	BRIDGES-ST	73	T017S	R034E	S13	4716	P&A	19400821
30025020250000	MOBIL	BRIDGES-ST	80	T017S	R034E	S13	4716	P&A	19551201
30025020170000	MOBIL	BRIDGES-ST	9	T017S	R034E	S13	4682	OIL	19380714
30025020180000	MOBIL	BRIDGES-ST	WI24	T017S	R034E	S13	4700	INJ	19290210
30025020200000	MOBIL	BRIDGES-ST	WI46	T017S	R034E	S13	4700	INJ	19391116
30025221000000	MOBIL	NVAU	120	T017S	R034E	S13	10400	2 OIL	19670711
30025221010000	MOBIL	NVAU	121	T017S	R034E	S13	10550	INJ	19670901
30025235580000	MOBIL	NVAU	147	T017S	R034E	S13	11775	INJ	19701023
30025236930000	MOBIL	NVAU	152	T017S	R034E	S13	8700	INJ	19710404
30025237530000	MOBIL	NVAU	165	T017S	R034E	S13	10600	2 OIL	19710608
30025246120000	MOBIL	NVAU	219	T017S	R034E	S13	8650	INJ	19740207
30025250980000	MOBIL	NVAU	223	T017S	R034E	S13	8750	OIL	19750926
30025287350000	MOBIL	NVAU	252	T017S	R034E	S13	8700	OIL	19840819
30025287360000	MOBIL	NVAU	253	T017S	R034E	S13	8700	OIL	19840911
30025287240000	MOBIL	NVAU	254	T017S	R034E	S13	9100	OIL	19840724
30025287370000	MOBIL	NVAU	255	T017S	R034E	S13	8700	OIL	19840905
30025287390000	MOBIL	NVAU	257	T017S	R034E	S13	9100	OIL	19840813
30025287400000	MOBIL	NVAU	258	T017S	R034E	S13	8706	OIL	19840816
30025238210000	MOBIL	NVAU	260	T017S	R034E	S13	8700	OIL	19840914
30025307220000	QUESTA O&	NEW MEXICO	5	T017S	R034E	S13 S	4700+-	OIL	NONE @ 4/90
30025223440000	MOBIL	NVAU	230	T017S	R034E	S13	10600	2 OIL	19680225
30025238640000	MOBIL	NVAU	231	T017S	R034E	S13	8800	OIL	19711012
30025020270000	TEXACO	STATE W NC	1	T017S	R034E	S13	4680	OIL	19381228
30025020280000	TEXACO	STATE W NC	2	T017S	R034E	S13	4700	OIL	19400814
30025223860000	MOBIL	BRIDGES-ST	124	T017S	R034E	S14	10565	INJ	19680321
30025238870001	MOBIL	BRIDGES-ST	125	T017S	R034E	S14	11890	GAS-WD	19730107
30025234060000	MOBIL	BRIDGES-ST	133	T017S	R034E	S14	12215	GAS	19700303
30025238610000	MOBIL	BRIDGES-ST	14	T017S	R034E	S14	8750	OIL	19710903
30025237800000	MOBIL	BRIDGES-ST	170	T017S	R034E	S14	8900	OIL	19720229
30025240250000	MOBIL	BRIDGES-ST	173	T017S	R034E	S14	8750	OIL	19720327
30025243530000	MOBIL	BRIDGES-ST	175	T017S	R034E	S14	8750	INJ	19730111
30025020290000	MOBIL	BRIDGES-ST	2	T017S	R034E	S14	4593	P&A	19370925
30025020300000	MOBIL	BRIDGES-ST	34	T017S	R034E	S14	4650	OIL	19390703
30025020310000	MOBIL	BRIDGES-ST	37	T017S	R034E	S14	4642	INJ	19390805
30025292590000	MOBIL	BRIDGES-ST	501	T017S	R034E	S14	4800	OIL	19850708
30025020320000	MOBIL	BRIDGES-ST	54	T017S	R034E	S14	4660	OIL	19400305

ILLEGIBLE

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025020340000	MOBIL	BRIDGES-ST	56	T017S	R034E	S14	4670	OIL	19400408
30025020360000	MOBIL	BRIDGES-ST	61	T017S	R034E	S14	4674	P&A	19400504
30025020370000	MOBIL	BRIDGES-ST	62	T017S	R034E	S14	4700	INJ	19400506
30025020380000	MOBIL	BRIDGES-ST	64	T017S	R034E	S14	4664	INJ	19400618
30025020390000	MOBIL	BRIDGES-ST	65	T017S	R034E	S14	4660	INJ	19400529
30025020400000	MOBIL	BRIDGES-ST	66	T017S	R034E	S14	4740	P&A	19400627
30025020410000	MOBIL	BRIDGES-ST	67	T017S	R034E	S14	4738	OIL	19400719
30025020430000	MOBIL	BRIDGES-ST	70	T017S	R034E	S14	4732	P&A	19400725
30025020440000	MOBIL	BRIDGES-ST	71	T017S	R034E	S14	4739	P&A	19400729
30025020320000	MOBIL	BRIDGES-ST	WI40	T017S	R034E	S14	4725	INJ	19390913
30025235410000	MOBIL	NVAU	139	T017S	R034E	S14	8750	INJ	19700808
30025235660000	MOBIL	NVAU	142	T017S	R034E	S14	8700	INJ	19700927
30025236460000	MOBIL	NVAU	146	T017S	R034E	S14	8700	INJ	19701220
30025239860000	MOBIL	NVAU	171	T017S	R034E	S14	8700	INJ	19720124
30025020350000	MOBIL	NVAU	175	T017S	R034E	S14	4660	INJ	19400509
30025287380000	MOBIL	NVAU	256	T017S	R034E	S14	8700	OIL	19840920
30025288300000	MOBIL	NVAU	259	T017S	R034E	S14	8700	OIL	19840926
30025290240000	MOBIL	NVAU	275	T017S	R034E	S14	8800	OIL	19850115
30025292390000	MOBIL	NVAU	282	T017S	R034E	S14	8800	OIL	19850731
30025292400000	MOBIL	NVAU	283	T017S	R034E	S14	8800	OIL	19851003
30025292410000	MOBIL	NVAU	284	T017S	R034E	S14	8800	OIL	19850909
30025292420000	MOBIL	NVAU	285	T017S	R034E	S14	8800	OIL	19851023
30025296070000	MOBIL	NVAU	297	T017S	R034E	S14	8800	OIL	19860527
30025020700000	AMERADA H	STATE VA	1	T017S	R034E	S23	4740	P&A	19380414
30025020710000	AMERADA H	STATE VA	2	T017S	R034E	S23	4671	P&A	19380603
30025020720000	AMERADA H	STATE VA	3	T017S	R034E	S23	4662	P&A	19380806
30025222650000	AMERADA H	STATE VA	WI6	T017S	R034E	S23	4700	P&A	19671024
30025020770000	MOBIL	BRIDGES-ST	10	T017S	R034E	S23	4676	OIL	19380712
30025218280000	MOBIL	BRIDGES-ST	117	T017S	R034E	S23	10414	INJ	19660927
30025239420000	MOBIL	BRIDGES-ST	128	T017S	R034E	S23	8580	INJ	19690205
30025236580000	MOBIL	BRIDGES-ST	151	T017S	R034E	S23	12180	INJ	19710321
30025290100000	MOBIL	BRIDGES-ST	189	T017S	R034E	S23	4750	OIL	19841217
30025290110000	MOBIL	BRIDGES-ST	190	T017S	R034E	S23	4750	OIL	19850107
30025290120000	MOBIL	BRIDGES-ST	191	T017S	R034E	S23	4800	OIL	19841231
30025290130000	MOBIL	BRIDGES-ST	192	T017S	R034E	S23	4761	OIL	19850110
30025291600000	MOBIL	BRIDGES-ST	193	T017S	R034E	S23	4800	OIL	19850422
30025291610000	MOBIL	BRIDGES-ST	194	T017S	R034E	S23	4800	OIL	19850507
30025291620000	MOBIL	BRIDGES-ST	195	T017S	R034E	S23	4800	P&A	19850520
30025291700000	MOBIL	BRIDGES-ST	199	T017S	R034E	S23	4800	OIL	19850606
30025020730001	MOBIL	BRIDGES-ST	3	T017S	R034E	S23	4608	INJ	19400516
30025020730000	MOBIL	BRIDGES-ST	3	T017S	R034E	S23	4551	INJ	19380206
30025020790000	MOBIL	BRIDGES-ST	31	T017S	R034E	S23	4651	INJ	19390326
30025020800000	MOBIL	BRIDGES-ST	41	T017S	R034E	S23	4720	OIL	19390913
30025292580000	MOBIL	BRIDGES-ST	290	T017S	R034E	S23	4800	OIL	19850706
30025020820000	MOBIL	BRIDGES-ST	53	T017S	R034E	S23	4605	OIL	19400227
30025020830000	MOBIL	BRIDGES-ST	55	T017S	R034E	S23	4625	OIL	19400306
30025020840000	MOBIL	BRIDGES-ST	57	T017S	R034E	S23	4700	OIL	19400408

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API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025020740000	MOBIL	BRIDGES-ST	6	T017S	R034E	S23	4755	OBSERV	19380717
30025020760000	MOBIL	BRIDGES-ST	8	T017S	R034E	S23	4740	OIL	19380608
30025296750000	MOBIL	BRIDGES-ST	WD-511	T017S	R034E	S23 S	5650	SWD	19860909
30025020780000	MOBIL	BRIDGES-ST	WI21	T017S	R034E	S23	4660	INJ	19390102
30025020810000	MOBIL	BRIDGES-ST	WI43	T017S	R034E	S23	4610	INJ	19391014
30025020750000	MOBIL	BRIDGES-ST	WI7	T017S	R034E	S23	4700	INJ	19380608
30025231000000	MOBIL	NVAU	129	T017S	R034E	S23	8600	INJ	19690608
30025236950000	MOBIL	NVAU	155	T017S	R034E	S23	8700	INJ	19710416
30025236960000	MOBIL	NVAU	156	T017S	R034E	S23	8750	INJ	19710430
30025239820000	MOBIL	NVAU	213	T017S	R034E	S23	8600	INJ	19720114
30025283140000	MOBIL	NVAU	234	T017S	R034E	S23	8700	OIL	19840214
30025286030000	MOBIL	NVAU	244	T017S	R034E	S23	8700	OIL	19840522
30025286040000	MOBIL	NVAU	245	T017S	R034E	S23	8711	OIL	19840613
30025292350000	MOBIL	NVAU	278	T017S	R034E	S23	8800	OIL	19850822
30025292360000	MOBIL	NVAU	279	T017S	R034E	S23	8792	OIL	19850920
30025292370000	MOBIL	NVAU	280	T017S	R034E	S23	8800	OIL	19851008
30025292380000	MOBIL	NVAU	281	T017S	R034E	S23	8800	OIL	19850708
30025295600000	MOBIL	NVAU	294	T017S	R034E	S23 N	8808	OIL	19860423
30025240440000	MOBIL	NVAU	210	T017S	R034E	S23	8800	INJ	19720320
30025206730000	DRILLING	STATE E	3	T017S	R034E	S24	7014	INJ	19640611
30025218300000	MOBIL	BRIDGES-ST	113	T017S	R034E	S24	6225	OIL	19660925
30025218660000	MOBIL	BRIDGES-ST	114	T017S	R034E	S24	6210	OIL	19660930
30025218080000	MOBIL	BRIDGES-ST	115	T017S	R034E	S24	10436	INJ	19660822
30025220010000	MOBIL	BRIDGES-ST	119	T017S	R034E	S24	12391	INJ	19670330
30025020880000	MOBIL	BRIDGES-ST	18	T017S	R034E	S24	4700	OIL	19381122
30025020690000	MOBIL	BRIDGES-ST	19	T017S	R034E	S24	4700	OIL	19381130
30025291630000	MOBIL	BRIDGES-ST	196	T017S	R034E	S24	4800	OIL	19850523
30025291670000	MOBIL	BRIDGES-ST	197	T017S	R034E	S24	4800	OIL	19850530
30025291690000	MOBIL	BRIDGES-ST	198	T017S	R034E	S24	4800	OIL	19850618
30025020900000	MOBIL	BRIDGES-ST	20	T017S	R034E	S24	4690	INJ	19381223
30025020910000	MOBIL	BRIDGES-ST	22	T017S	R034E	S24	4700	OIL	19390118
30025020920000	MOBIL	BRIDGES-ST	23	T017S	R034E	S24	4700	OIL	19390204
30025020930000	MOBIL	BRIDGES-ST	47	T017S	R034E	S24	4680	INJ	19391115
30025020940001	MOBIL	BRIDGES-ST	58	T017S	R034E	S24	4800	OIL	19631129
30025226300000	MOBIL	BRIDGES-ST	WI127	T017S	R034E	S24	4850	INJ	19630715
30025221060000	MOBIL	NVAU	204	T017S	R034E	S24	10340	INJ	19670706
30025221050000	MOBIL	NVAU	205	T017S	R034E	S24	10401	INJ	19670802
30025227600000	MOBIL	NVAU	207	T017S	R034E	S24	8653	INJ	19681023
30025227130000	MOBIL	NVAU	211	T017S	R034E	S24	10138	OIL	19691207
30025248510000	MOBIL	NVAU	222	T017S	R034E	S24	8660	OIL	19750210
30025283150000	MOBIL	NVAU	235	T017S	R034E	S24	8675	OIL	19840130
30025283130000	MOBIL	NVAU	238	T017S	R034E	S24	8700	INJ	19831019
30025284660000	MOBIL	NVAU	238Y	T017S	R034E	S24	8700	OIL	19831227
30025285870000	MOBIL	NVAU	246	T017S	R034E	S24	8700	OIL	19840508
30025286270000	MOBIL	NVAU	247	T017S	R034E	S24	8710	OIL	19840521
30025286180000	MOBIL	NVAU	248	T017S	R034E	S24	8700	OIL	19840612
30025287230000	MOBIL	NVAU	250	T017S	R034E	S24	8100	OIL	19840801

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30025287340000	MOBIL	NVAU	251	T017S	R034E	S24	8710	OIL	19840814
30025020990000	MOBIL	SANTA FE-S	WI10	T017S	R034E	S24	4706	INJ	19381107
30025020960000	MOBIL	STATE 6	1	T017S	R034E	S24	4905	OIL	19370525
30025020970000	MOBIL	STATE 6	2	T017S	R034E	S24	4750	OIL	19381214
30025020980000	MOBIL	STATE 6	3	T017S	R034E	S24	4726	INJ	19391222
30025216170000	MOBIL	STATE-BRID	109	T017S	R034E	S24	12470	INJ	19660502
30025268580000	PHILLIPS	E VU(GR-S A	WI-2	T017S	R034E	S24	4800	W-INJ	19820601
30025274190000	PHILLIPS	E VU(GB-S	3	T017S	R034E	S24	4800	OIL	19820314
30025273370000	PHILLIPS	E VU(GB-S	WI-2	T017S	R034E	S24	4800	W-INJ	19820220
30025273310000	PHILLIPS	E VUM(GB-S	3	T017S	R034E	S24	4800	OIL	19820123
30025224000000	SHELL OIL	STATE	2	T017S	R034E	S24	10200	OIL	19680327
30025020950000	SHELL OIL	STATE C	1	T017S	R034E	S24	4733	OIL-P&A	19390331
30025020850000	SINCLAIR	STATE C-DE	1	T017S	R034E	S24	4665	OIL	19390614
30025020860000	SINCLAIR	STATE E-DE	1	T017S	R034E	S24	4675	OIL	19390724
30025020870000	SINCLAIR	STATE E-DE	2	T017S	R034E	S24	4685	OIL	19391026
30025021070000	MARATHON	MCCALLISTE	1	T017S	R034E	S25	4680	OIL	19380709
30025021080000	MARATHON	MCCALLISTE	2	T017S	R034E	S25	4700	OIL	19380817
30025021090000	MARATHON	MCCALLISTE	3	T017S	R034E	S25	4690	OIL	19381223
30025021100000	MARATHON	MCCALLISTE	4	T017S	R034E	S25	4710	OIL	19390128
30025200500000	MARATHON	MCCALLISTE	8	T017S	R034E	S25	6800	OIL	19630620
30025201430000	MARATHON	MCCALLISTE	9	T017S	R034E	S25	6800	OIL	19630714
30025201150000	MARATHON	STATE MCCA	7	T017S	R034E	S25	12125	2 OIL	19630910
30025202490000	MARATHON	STATE-MCCA	10	T017S	R034E	S25	6800	2 OIL	19631015
30025201160000	MARATHON	STATE-MCCA	5	T017S	R034E	S25	12195	2 OIL	19630501
30025202350000	MARATHON	STATE-MCCA	6	T017S	R034E	S25	6800	2 OIL	19630605
30025210410000	MOBIL	BRIDGES-ST	102	T017S	R034E	S25	6200	OIL	19641207
30025021000001	MOBIL	BRIDGES-ST	11	T017S	R034E	S25	6800	P&A	19630810
30025228500000	MOBIL	BRIDGES-ST	115	T017S	R034E	S25	6242	P&A	19690103
30025021010001	MOBIL	BRIDGES-ST	13	T017S	R034E	S25	6800	OIL-WO	19630103
30025021020000	MOBIL	BRIDGES-ST	14	T017S	R034E	S25	4270	OIL	19381108
30025021040000	MOBIL	BRIDGES-ST	16	T017S	R034E	S25	4750	OIL	19381017
30025021050000	MOBIL	BRIDGES-ST	17	T017S	R034E	S25	4750	P&A	19381109
30025245690000	MOBIL	BRIDGES-ST	176	T017S	R034E	S25	4850	OIL	19740129
30025245710000	MOBIL	BRIDGES-ST	178	T017S	R034E	S25	4850	OIL	19740220
30025021030000	MOBIL	BRIDGES-ST	22	T017S	R034E	S25	4620	INJ	19390614
30025021060002	MOBIL	BRIDGES-ST	36	T017S	R034E	S25	6900	OIL	19710614
30025234260000	MOBIL	BRIDGES-ST	WI-185	T017S	R034E	S25	4900	INJ	19831231
30025234290000	MOBIL	BRIDGES-ST	WI-188	T017S	R034E	S25	4800	INJ	19840329
30025245050000	MOBIL	NVAU	218	T017S	R034E	S25	8600	INJ	19740122
30025275150000	MOBIL	NVAU	232	T017S	R034E	S25	8750	P&A	19820108
30025283160000	MOBIL	NVAU	236	T017S	R034E	S25	8700	OIL	19831114
30025285850000	MOBIL	NVAU	239	T017S	R034E	S25	8700	OIL	19840503
30025398730000	MOBIL	STATE-BRID	103	T017S	R034E	S25	6200	OIL	19650106
30025213620000	MOBIL	STATE-BRID	104	T017S	R034E	S25	10200	3 OIL	19650716
30025213640000	MOBIL	STATE-BRID	106	T017S	R034E	S25	6150	OIL	19650428
30025216410000	MOBIL	STATE-BRID	108	T017S	R034E	S25	10200	3 OIL	19660119
30025216490000	MOBIL	STATE-BRID	110	T017S	R034E	S25	6200	OIL	19660312

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30025216750000	MOBIL	STATE-BRID	111	T017S	R034E	S25	6190	OIL	19660402
30025217510000	MOBIL	STATE-BRID	112	T017S	R034E	S25	10230	INJ	19660623
30025084530000	SHELL OIL	LA SWIGART	1	T017S	R034E	S25	4700	OIL	19380913
30025202120000	SHELL OIL	SWIGART	2	T017S	R034E	S25	6900	OIL	19630221
30025216630001	TEXACO	CENTRAL VA	12	T017S	R034E	S25	4740	OIL-WD	19810620
30025301020000	TEXACO	CENTRAL VA	223	T017S	R034E	S25 N	4730	OIL	19880310
30025258100000	TEXACO	CENTRAL VA	WI-13	T017S	R034E	S25	4800	W-INJ	19790130
30025279650000	TEXACO	CENTRAL VA	WI-155	T017S	R034E	S25	4800	W-INJ	19821230
30025279660000	TEXACO	CENTRAL VA	WI-156	T017S	R034E	S25	4800	W-INJ	19821113
30025279670000	TEXACO	CENTRAL VA	WI-157	T017S	R034E	S25	4800	W-INJ	19821124
30025258130000	TEXACO	CENTRAL VA	WI-25	T017S	R034E	S25	4800	W-INJ	19780425
30025258140000	TEXACO	CENTRAL VA	WI-26	T017S	R034E	S25	4800	W-INJ	19780421
30025258150000	TEXACO	CENTRAL VA	WI-27	T017S	R034E	S25	4800	W-INJ	19780317
30025258160000	TEXACO	CENTRAL VA	WI-28	T017S	R034E	S25	4800	W-INJ	19780414
30025279130000	TEXACO	NEW MEXICO	10	T017S	R034E	S25	6100	OIL	19821024
30025272360000	TEXACO	NEW MEXICO	9	T017S	R034E	S25	6150	OIL	19810716
30025209510000	TEXACO	STATE OF N	2	T017S	R034E	S25	6800	OIL	19641024
30025202940000	TEXACO	STATE OF N	4	T017S	R034E	S25	12285	3 OIL	19631204
30025201720000	TEXACO	STATE OF N	5	T017S	R034E	S25	6850	2 OIL	19631023
30025209470000	TEXACO	STATE OF N	6	T017S	R034E	S25	6850	2 OIL	19640324
30025209490000	TEXACO	STATE OF N	8	T017S	R034E	S25	6850	2 OIL	19640922
30025021110000	TEXACO	STATE Q	1	T017S	R034E	S25	4725	OIL	19380721
30025021120000	TEXACO	STATE Q	2	T017S	R034E	S25	4750	OIL	19380629
30025021130000	TEXACO	STATE Q	3	T017S	R034E	S25	4725	OIL	19380930
30025021140000	TEXACO	STATE T	1	T017S	R034E	S25	4725	OIL	19390418
30025216630000	TEXACO	STT/NW MXC	3	T017S	R034E	S25	4740	OIL	19660405
30025209620000	TEXACO	TEXACO-MOB	1	T017S	R034E	S25	10300	3 OIL	19640818
30025209480000	TEXACO	TEXAS-SHEL	1	T017S	R034E	S25	10200	3 OIL	19640529
30025021170000	MOBIL	BRIDGES-ST	12	T017S	R034E	S26	4725	OIL	19380802
30025021180000	MOBIL	BRIDGES-ST	15	T017S	R034E	S26	4763	OIL	19380911
30025236940000	MOBIL	BRIDGES-ST	153	T017S	R034E	S26	8700	INJ	19710330
30025239590000	MOBIL	BRIDGES-ST	168	T017S	R034E	S26	4800	INJ	19720215
30025245700000	MOBIL	BRIDGES-ST	177	T017S	R034E	S26	4850	OIL	19740207
30025246320000	MOBIL	BRIDGES-ST	180	T017S	R034E	S26	4850	OIL	19740220
30025280010000	MOBIL	BRIDGES-ST	182	T017S	R034E	S26	4871	OIL	19830125
30025021200000	MOBIL	BRIDGES-ST	25	T017S	R034E	S26	4750	OIL	19390226
30025021210000	MOBIL	BRIDGES-ST	26	T017S	R034E	S26	4710	OIL	19390313
30025021220001	MOBIL	BRIDGES-ST	27	T017S	R034E	S26	7000	OIL	19821110
30025021230000	MOBIL	BRIDGES-ST	28	T017S	R034E	S26	4740	OIL	19390424
30025021190000	MOBIL	BRIDGES-ST	29	T017S	R034E	S26	4725	P&A	19390414
30025021240001	MOBIL	BRIDGES-ST	30	T017S	R034E	S26	6800	INJ	19821221
30025021250000	MOBIL	BRIDGES-ST	35	T017S	R034E	S26	4743	OIL	19390713
30025021260000	MOBIL	BRIDGES-ST	38	T017S	R034E	S26	4700	OIL	19390817
30025021270000	MOBIL	BRIDGES-ST	39	T017S	R034E	S26	4725	P&A	19390813
30025021150000	MOBIL	BRIDGES-ST	4	T017S	R034E	S26	4758	OIL	19380428
30025021160000	MOBIL	BRIDGES-ST	5	T017S	R034E	S26	4750	INJ	19380502
30025292620000	MOBIL	BRIDGES-ST	503	T017S	R034E	S26	4800	OIL	19850828

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30025292630000	MOBIL	BRIDGES-ST	504	T017S	R034E	S26	4800	OIL	19850818
30025296310000	MOBIL	BRIDGES-ST	507	T017S	R034E	S26 S	4800	OIL	19870501
30025021280000	MOBIL	BRIDGES-ST	95	T017S	R034E	S26	13816	3 OIL	19621219
30025200800000	MOBIL	BRIDGES-ST	96	T017S	R034E	S26	12150	3 OIL	19630322
30025200680000	MOBIL	BRIDGES-ST	97	T017S	R034E	S26	6750	OIL	19630120
30025203200000	MOBIL	BRIDGES-ST	98	T017S	R034E	S26	11660	2 OIL	19631215
30025201480000	MOBIL	BRIDGES-ST	99	T017S	R034E	S26	6750	2 OIL	19630912
30025284280000	MOBIL	BRIDGES-ST	WI-187	T017S	R034E	S26	4800	INJ	19840330
30025233940000	MOBIL	BRIDGES-ST	WI132	T017S	R034E	S26	4912	INJ	19700204
30025235260000	MOBIL	NVAU	118	T017S	R034E	S26	8700	INJ	19700715
30025234620000	MOBIL	NVAU	136	T017S	R034E	S26	8700	INJ	19700522
30025235270000	MOBIL	NVAU	137	T017S	R034E	S26	8700	INJ	19700722
30025235400000	MOBIL	NVAU	138	T017S	R034E	S26	8700	INJ	19700807
30025283170000	MOBIL	NVAU	237	T017S	R034E	S26	8700	OIL	19831229
30025286000000	MOBIL	NVAU	240	T017S	R034E	S26	8700	OIL	19840530
30025286010000	MOBIL	NVAU	241	T017S	R034E	S26	8700	OIL	19840704
30025286020000	MOBIL	NVAU	242	T017S	R034E	S26	8750	OIL	19840808
30025286020000	MOBIL	NVAU	242	T017S	R034E	S26	8700	OIL	19840808
30025285860000	MOBIL	NVAU	243	T017S	R034E	S26	8700	OIL	19840511
30025287220000	MOBIL	NVAU	249	T017S	R034E	S26	8720	OIL	19840828
30025294300000	MOBIL	NVAU	286	T017S	R034E	S26	8700	OIL	19851224
30025294310000	MOBIL	NVAU	287	T017S	R034E	S26	8800	OIL	19851231
30025213630000	MOBIL	STATE-BRID	105	T017S	R034E	S26	6150	INJ	19650422
30025137040000	MOBIL	STATE-BRID	53	T017S	R034E	S26	4735	OIL	19590607
30025028310000	BARNETT D	STATE B	1	T017S	R035E	S19	4783	D&A-	19490323
30025028340000	CROWN CEN	SHELL-STAT	3	T017S	R035E	S19	4816	OIL	19590703
30025028270000	CRUSADER	CITIES SER	2	T017S	R035E	S19	4756	OIL	19560311
30025238730000	HUMBLE OI	MEXICO-STA	4	T017S	R035E	S19	8739	OIL	19711022
30025207080000	HUMBLE OI	NEW MEXICO	3	T017S	R035E	S19	6280	OIL	19640911
30025240130000	HUMBLE OI	NEW MEXICO	5	T017S	R035E	S19	8740	OIL	19720225
30025028260000	HUMBLE OI	STATE J	1	T017S	R035E	S19	4725	OIL	19331014
30025028290000	HUMBLE OI	STATE J	2	T017S	R035E	S19	4765	OIL	19390201
30025028240000	JOSALINE	STATE C	1	T017S	R035E	S19	4705	OIL	19491013
30025028250000	JOSALINE	STATE C	2	T017S	R035E	S19	4586	OIL	19500521
30025028300000	MARATHON	STAPLIN-ST	1	T017S	R035E	S19	4700	OIL	19390614
30025237940000	MOBIL	NVAU	206	T017S	R035E	S19	8300	INJ	19710625
30025248500000	MOBIL	NVAU	221	T017S	R035E	S19	8720	OIL	19750115
30025028330000	MOBIL	STATE N	1	T017S	R035E	S19	4780	OIL	19391119
30025274210000	PHILLIPS	E V(GR-S A	1	T017S	R035E	S19	4800	OIL	19820831
30025274250000	PHILLIPS	E V(GR-S A	1	T017S	R035E	S19	4800	OIL	19820821
30025271130000	PHILLIPS	E V(GR-S A	2	T017S	R035E	S19	4800	OIL	19820409
30025268770000	PHILLIPS	E V(GR-S A	WI-5	T017S	R035E	S19	4800	W-INJ	19801229
30025271140000	PHILLIPS	E V(GR-S A	WI-2	T017S	R035E	S19	4800	W-INJ	19811024
30025273300000	PHILLIPS	E V(GR-S A	WI-3	T017S	R035E	S19	4800	W-INJ	19820917
30025273380000	PHILLIPS	E VCM(GBGS	WI-4	T017S	R035E	S19	4750	W-INJ	19820908
30025273390000	PHILLIPS	E VCM(GBSA	WI-4	T017S	R035E	S19	4800	W-INJ	19820812
30025273400000	PHILLIPS	E VCU(GB-S	WI-2	T017S	R035E	S19	4800	W-INJ	19811020

ILLEGIBLE

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, PLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025265680000	PHILLIPS	E VM GBG S	3	T017S	R035E	S19	4900	OIL	19800507
30025273410000	PHILLIPS	E VM(GBG-S	WI-2	T017S	R035E	S19	4800	W-INJ	19820313
30025274220000	PHILLIPS	E VU(GB-S	3	T017S	R035E	S19	4800	OIL	19820528
30025273290000	PHILLIPS	E VU(GB-S	WI-4	T017S	R035E	S19	4805	W-INJ	19811003
30025274200000	PHILLIPS	EAST VACUU	3	T017S	R035E	S19	4800	OIL	19820328
30025240800000	PHILLIPS	SANTA FE	122	T017S	R035E	S19	9000	OIL	19720519
30025028320000	PHILLIPS	SANTA FE	56	T017S	R035E	S19	4880	OIL	19600829
30025240510000	SHELL OIL	STATE /K/	3	T017S	R035E	S19	8900	OIL	19720410
30025240450000	SHELL OIL	STATE /VB/	1	T017S	R035E	S19	8975	OIL	19720318
30025023230000	SHELL OIL	STATE K	1	T017S	R035E	S19	4686	OIL	19490216
30025240280000	SHELL OIL	STATE K	1	T017S	R035E	S19	8900	OIL	19720221
30025028260000	SINCLAIR	STATE J DE	1	T017S	R035E	S19	4700	OIL	19400622
30025029370000	JOSALINE	STATE E	1	T017S	R035E	S30	4666	OIL	19500111
30025029410000	MARATHON	STAPLIN-ST	1	T017S	R035E	S30	4702	OIL	19380417
30025029420000	MARATHON	STAPLIN-ST	2	T017S	R035E	S30	4710	OIL	19390320
30025219070000	MARATHON	STAPLIN-ST	5	T017S	R035E	S30	4750	OIL	19670101
30025210090000	MARATHON	STATE-STAP	3	T017S	R035E	S30	6150	OIL	19640605
30025207460000	MARATHON	STATE-STAP	4	T017S	R035E	S30	6150	OIL	19640702
30025256740000	PENROC OI	STATE /AR/	1	T017S	R035E	S30	9800	OIL	19780110
30025238010000	PHILLIPS	SANTA FE	120	T017S	R035E	S30	4750	OIL	19710722
30025065450000	PHILLIPS	SANTA FE	2	T017S	R035E	S30	4685	OIL	19380601
30025029430000	PHILLIPS	SANTA FE	25	T017S	R035E	S30	4667	OIL	19390225
30025207940000	PHILLIPS	SANTA FE-S	100	T017S	R035E	S30	6500	OIL	19640826
30025207950000	PHILLIPS	SANTA FE-S	101	T017S	R035E	S30	6200	OIL	19640907
30025027440000	SHELL OIL	STATE B	1	T017S	R035E	S30	4700	OIL	19391010
30025065300000	SHELL OIL	STATE B	2	T017S	R035E	S30	4735	OIL	19381209
30025208210000	SHELL OIL	STATE B	3	T017S	R035E	S30	7100	OIL	19640401
30025208220000	SHELL OIL	STATE B	4	T017S	R035E	S30	6200	OIL	19640908
30025208270000	SHELL OIL	STATE I	3	T017S	R035E	S30	6300	D&A	19640819
30025213530000	SINCLAIR	STATE	2	T017S	R035E	S30	6250	OIL	19651001
30025213520000	SINCLAIR	STATE	3	T017S	R035E	S30	10200	2 OIL	19650523
30025029510000	SINCLAIR	STATE B-15	1	T017S	R035E	S30	4728	OIL	19390102
30025029520000	SINCLAIR	STATE B-15	2	T017S	R035E	S30	4724	OIL	19400506
30025029400000	SINCLAIR	STATE L DE	1	T017S	R035E	S30	4605	OIL	19400818
30025238170000	TEXACO	CENT VACUU	WI-300	T017S	R035E	S30	4800	W-INJ	19780505
30025219070001	TEXACO	CENTRAL VA	19	T017S	R035E	S30	4750	OIL-WO	19830615
30025085450001	TEXACO	CENTRAL VA	33	T017S	R035E	S30	4705	OIL-WO	19830603
30025290340000	TEXACO	CENTRAL VA	9	T017S	R035E	S30	4710	OIL	19850807
30025238110000	TEXACO	CENTRAL VA	WI-14	T017S	R035E	S30	4870	W-INJ	19780511
30025267920000	TEXACO	CENTRAL VA	WI-148	T017S	R035E	S30	4800	W-INJ	19801208
30025267950000	TEXACO	CENTRAL VA	WI-149	T017S	R035E	S30	4800	W-INJ	19801211
30025238150000	TEXACO	CENTRAL VA	WI-15	T017S	R035E	S30	4813	W-INJ	19780403
30025267940000	TEXACO	CENTRAL VA	WI-150	T017S	R035E	S30	4800	W-INJ	19801224
30025267950000	TEXACO	CENTRAL VC	WI-151	T017S	R035E	S30	1918	D&A	19801224
30025272350000	TEXACO	CENTRAL VA	WI-154	T017S	R035E	S30	4800	W-INJ	19810608
30025257930000	TEXACO	CENTRAL VA	WI-16	T017S	R035E	S30	4870	W-INJ	19780510
30025257940000	TEXACO	CENTRAL VA	WI-89	T017S	R035E	S30	4800	W-INJ	19780419

ILLEGIBLE

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90
SORTED BY LOCATION, OPERATOR, LEASE, & WELL ORDER

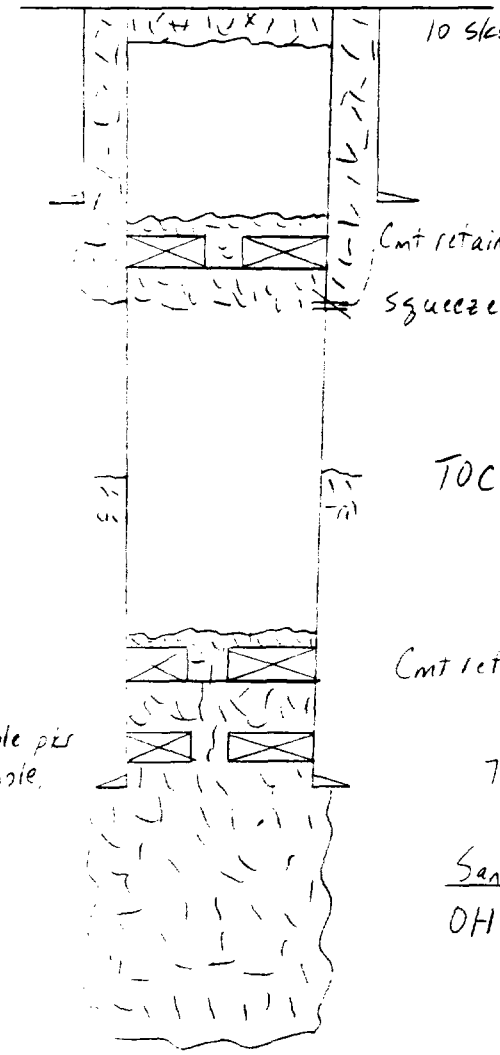
API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025257950000	TEXACO	CENTRAL VA	WI-31	T017S	R035E	S30	4800	W-INJ	19780314
30025258080000	TEXACO	CENTRAL VA	WI-5	T017S	R035E	S30	4800	W-INJ	19790306
30025258090000	TEXACO	CENTRAL VA	WI-6	T017S	R035E	S30	4830	W-INJ	19790308
30025257920000	TEXACO	CENTRAL VA	WI-7	T017S	R035E	S30	4800	W-INJ	19790105
30025029490000	TEXACO	STATE CG	1	T017S	R035E	S30	4700	OIL	19590302
30025029450000	TEXACO	STATE N	1	T017S	R035E	S30	4850	OIL	19381020
30025029460000	TEXACO	STATE N	2	T017S	R035E	S30	4720	OIL	19381121
30025029470000	TEXACO	STATE N	3	T017S	R035E	S30	4750	OIL	19390522
30025029480000	TEXACO	STATE N	4	T017S	R035E	S30	4750	OIL	19390731
30025238540000	TEXACO	STATE N	9	T017S	R035E	S30	6250	OIL	19711014
30025209580000	TEXACO	STATE OF N	2	T017S	R035E	S30	6250	OIL	19640624
30025209410000	TEXACO	STATE OF N	5	T017S	R035E	S30	6863	OIL	19640414
30025209420000	TEXACO	STATE OF N	6	T017S	R035E	S30	10300	3 OIL	19640713
30025209430000	TEXACO	STATE OF N	7	T017S	R035E	S30	6850	OIL	19640607
30025209440000	TEXACO	STATE OF N	8	T017S	R035E	S30	10300	OIL	19641121
30025029500000	TWIN OIL	STATE D	1	T017S	R035E	S30	4700	OIL	19390427

ILLEGIBLE

P&A'D WELLS WITHIN 1/2 MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #17
Unit A Sec 25 T17S R34E

PRESENT



10 sks surface cmt plug, 0-20'

10 3/4" 40 lb/ft csg set to 825' w/225 sks cmt circ

Cmt retainer @ 940'

Squeeze holes @ 1000' circ w/250 sks + 10 sks on retainer

TOC @ 2664' (calc)

Cmt retainer set @ 3988' squeezed OH w/200 sks + 6 sks on retainer

Retrievable pkr left in hole, 4170 or deeper

7" 24 lb/ft csg set to 4200' w/210 sks

San Andres Perfs
OH 4200-4748'

TD: 4753'
PBTD: 4748'

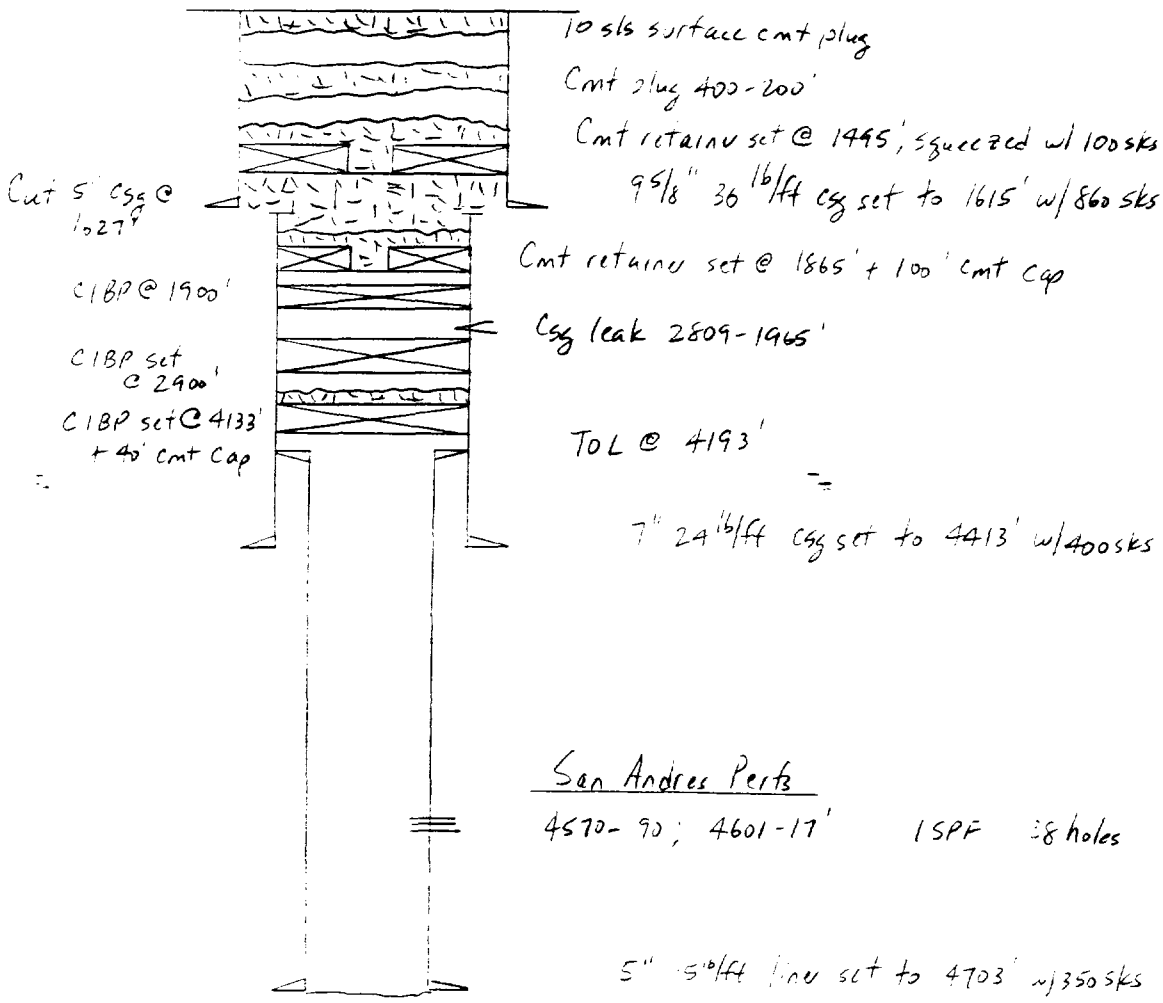
Mobil P&A'd: 8-3-78

DGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Santa Fe #10 W/W
Unit C Sec 24 T17S R34E
660' FNL & 1980' FWL

PRESENT



TD: 4706'
PBTD: 4701'

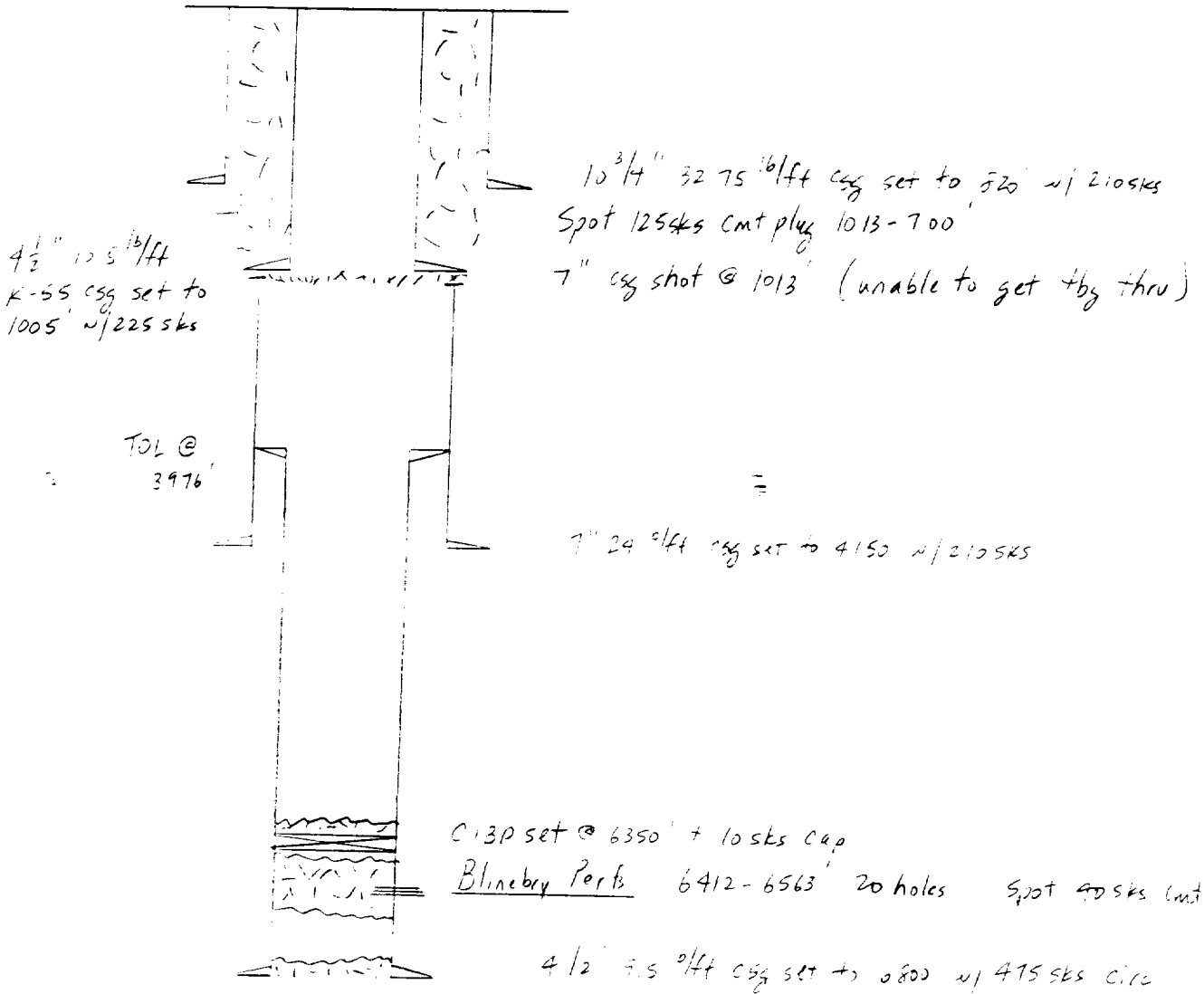
Mobil P&A'd 5-6-89

AGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #11
1980' FNL & 1978.5' FWL
Unit F Sec 25 T17S R34E Lea County, NM

PRESENT



TD: 6800
PBTD: 6770'

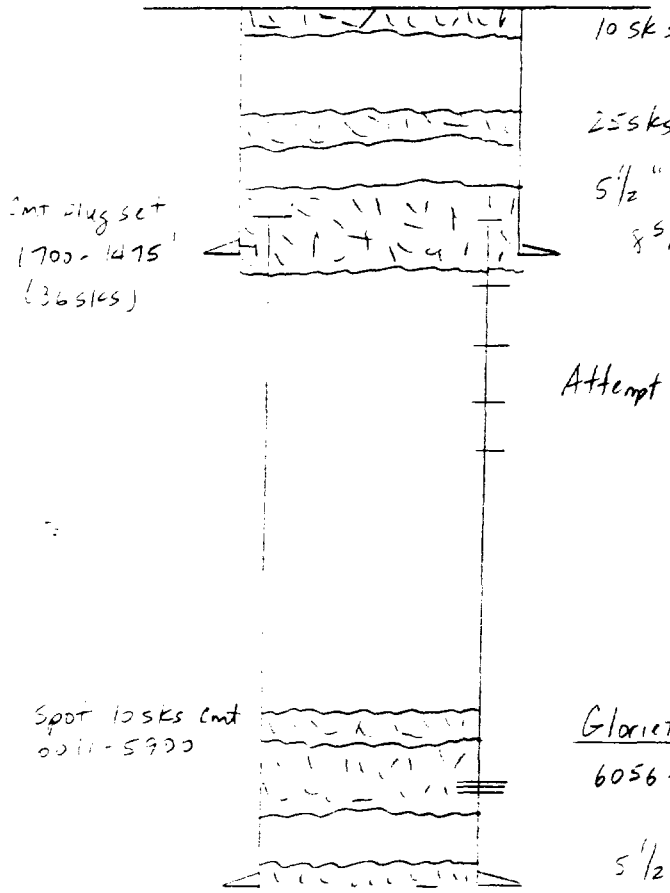
Mobil P&A'd 1-17-75
Texaco Completed
(completed as monitor well w/ valve + gauge
yet no perfs - completion requested by OCD)

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #115
900' FNL & 990' FEL
Unit A Sec 25 T17S R34E

PRESENT



TD: 6242'
PBTD 6199'

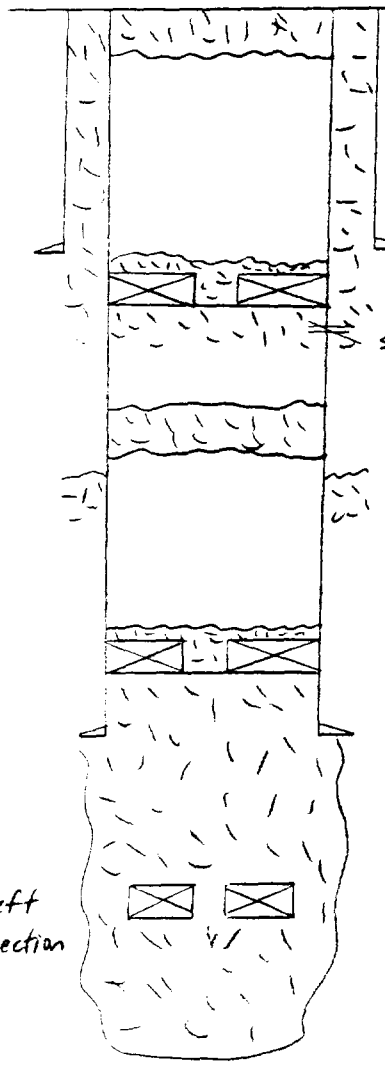
P&A'd 2-19-80

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #66 WIW
Unit E Sec 14 T17S R34E

PRESENT



10 sks surface plug

10 3/4" csg set to 821' w/225 sks, cmt circ (12 1/4" hole)

Squeeze holes @ 1000' + retainer @ 940', circ w/330 sks + cmt cap

Cmt plug (10 sks) spot 2800-2700'
Calc TOC @ 2937'

Cmt retainer set @ 4180', squeezed OH w/140 sks + 55k cap

5 1/2" csg set to 4365' w/225 sks (7 7/8" hole)

San Andres Perfs
OH 4365 - 4740'

Perm pkr left in OH section

TD 4740'
PB TD 4696'

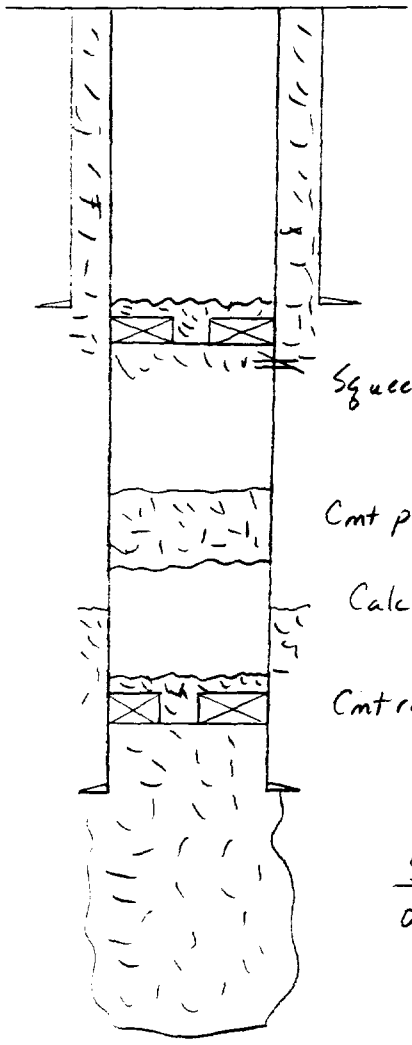
Mobil P&A'd. 2-5-78

DGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #73
Unit G Sec 13 T17S R34E

PRESENT



10 3/4" csg set to 827' w/250sks

Squeeze holes @ 1000', cmt ret @ 930', circ w/335 sks + 5sks cap

Cmt plug (15sks) 2825-2680'

Calc TOC @ ± 3100'

Cmt retainer set @ 4183', squeezed OH w/140sks + 5sk cap

5 1/2" csg set to 4393' w/210 sks

San Andres Perfs
OH 4393-4763'

Mobil P&A'd: 2-24-78

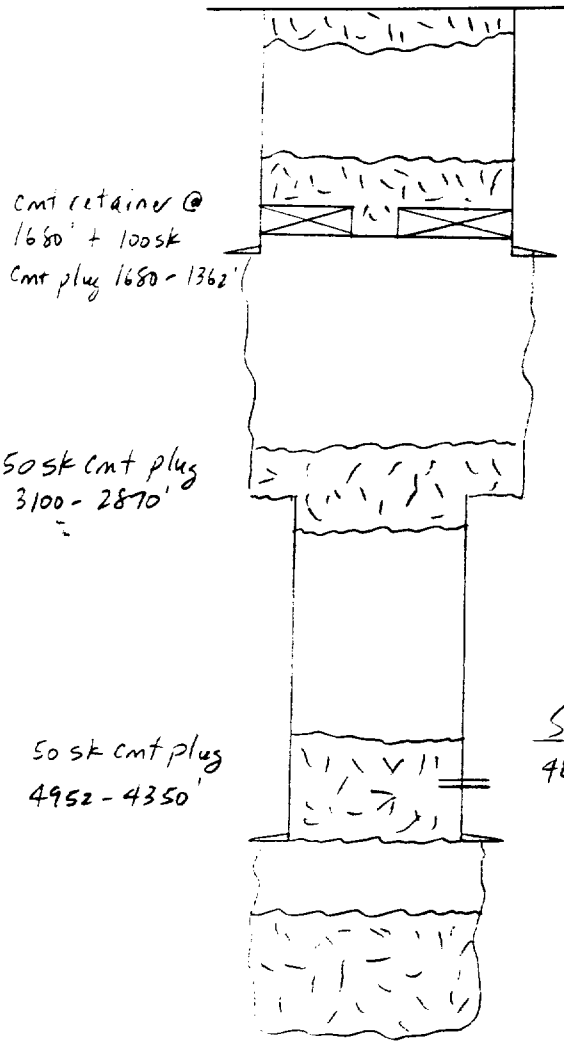
TD: 4763'
PBTD: 4732'

DGE
6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

HARDIN-HOUSTON INC (FORMALLY EXXON)
New Mexico State J#3
330' FSL & 330' FWL
Unit M Sec 19 T17S R 35E

PRESENT



10 sk surface cmt plug

Cmt retainer @ 1680' + 100sk Cmt plug 1680 - 1362'

8 5/8" csg set to 1689' w/ 850 sks. cmt circ (12 1/4" hole)

50sk cmt plug 3100 - 2870'

TOC by temp survey @ 3000', cut 4 1/2" csg @ 3000'

50 sk cmt plug 4952 - 4350'

San Andres Perfs
4822, 24, 26, 27'

4 1/2" csg set to 4952' w/350 sks (7 7/8" hole)

5950' - PBTD

TD: 6280'

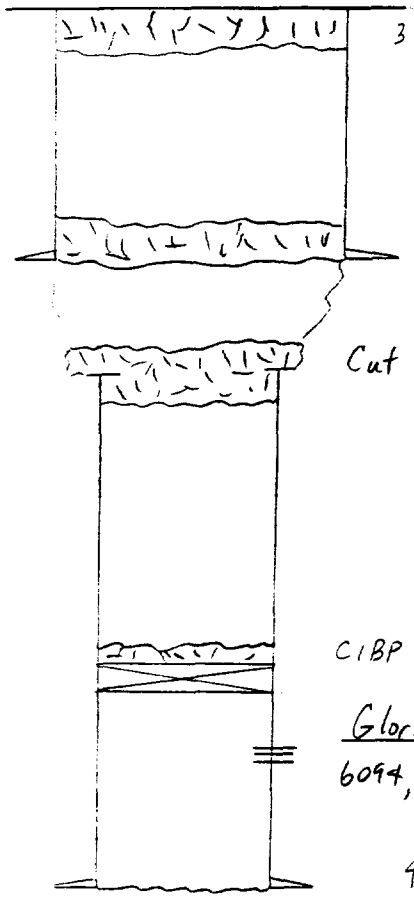
Initial P&A: 2-4-65
Hardin-Houston P&A: 3-3-81
(re-entered to dissolve salt to produce brine for sale)

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

TEXACO
State N #9
980' FNL & 913' FWL
Unit D Sec 30 T17S R35E

PRESENT



35 sks surface plug

8 5/8" 24 #/ft csg set to 1650', cmt w/ 700 sks, cmt circ
35 sk cmt plug 1650 - 1560'

Cut 4½" csg @ 2671', spot 35 sks cmt plug 2690 - 2590'

CIBP set @ 6074' + 35k cmt cap

Glorieta Perfs
6094, 95; 6104, 29, 49, 51, 54, 57, 61, 65' 2SPF

4 1/2" csg set to 6250', cmt w/ 1100 sks

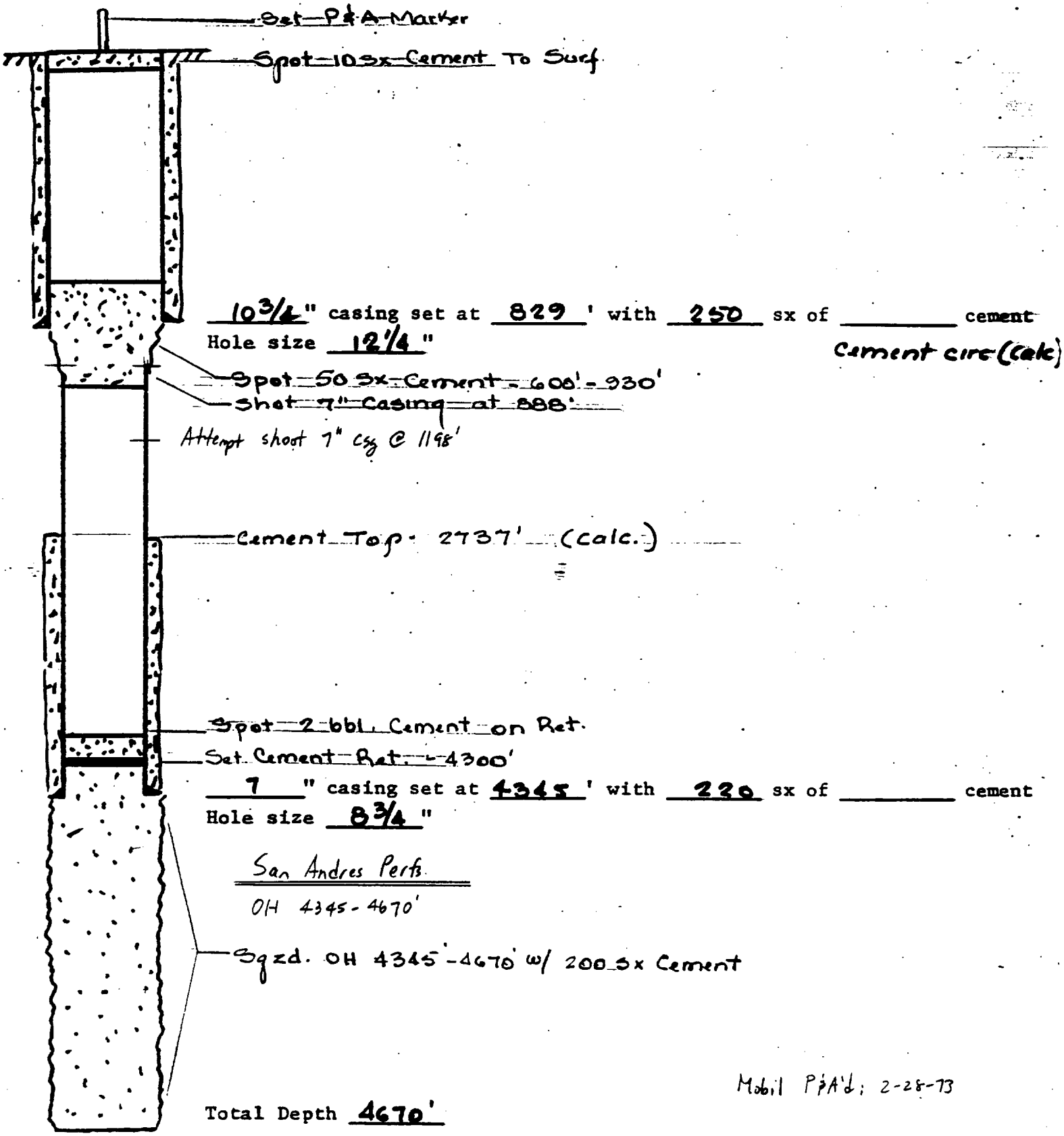
TD: 6250'

P&A'd: 8-27-74

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

FIELD	OPERATOR	DATE
Vacuum (Grayburg)	Mobil Oil Corp	[illegible]
LEASE	WELL No.	LOCATION
Bridges-State	59	L, Sec 13, T17S, R34E



Mobil P&A'd: 2-28-73

5-24-76

DATE 1-23-89 WELL NO. 232 LEASE North Vacuum Abo Unit

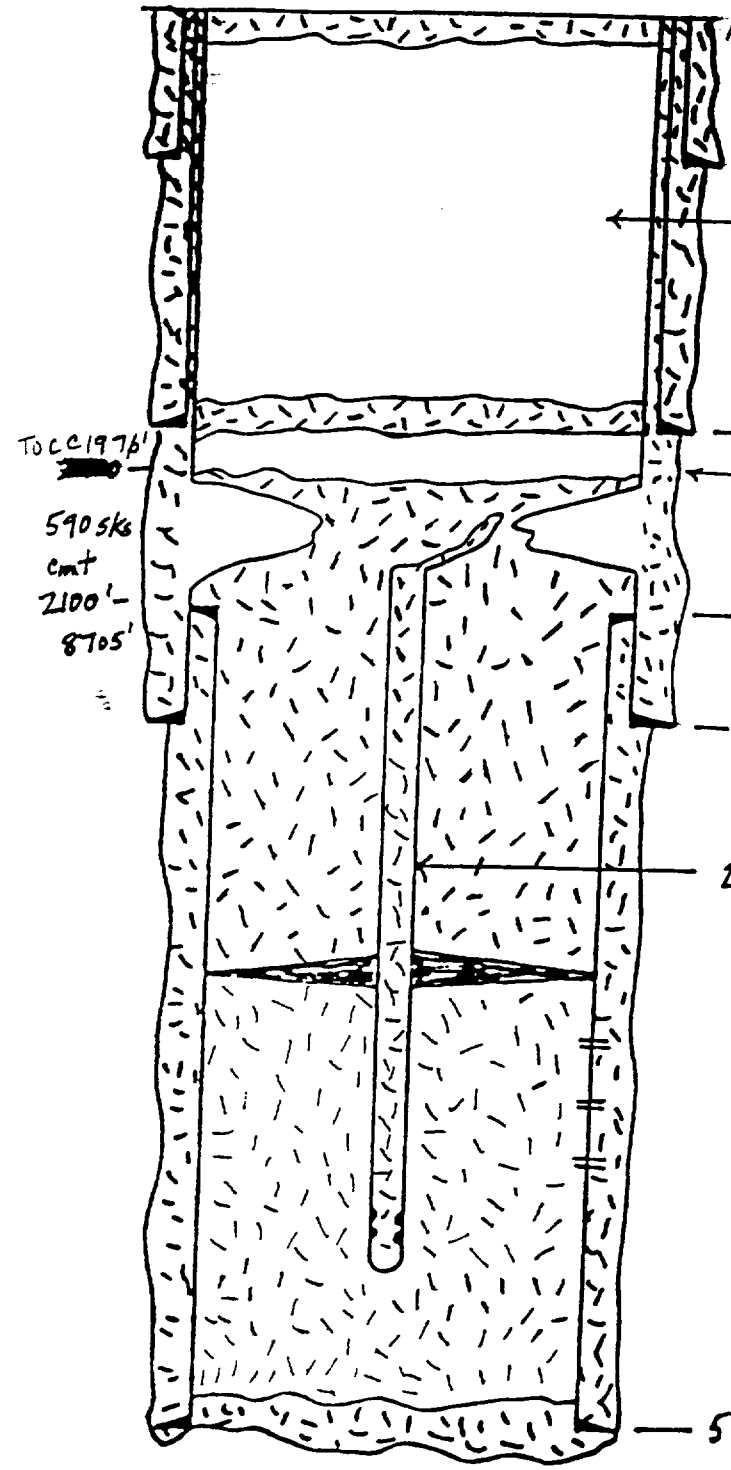
FIELD ~~Vacuum Abo North~~ LOCATION ~~A 25 17 34~~ 519' ~~FNL~~ 560' FEL

Lea County, New Mexico

SIGNED D. G. Elwood

GL 4010'
DF 4025'
KB 4026'
ZERO KB (16' AGL)

PROPOSED WELLBORE DIAGRAM



Abo Perfs

8429-34, 65-68, 70-74, 77-81, 84-86, 88-92, 94-97,
8499-8503, 06-10' 1 JSPF 42 holes

8553-56, 58-60, 67-69, 73-75, 77-79, 80-83, 86-90'
1 JSPF 25 holes

67 total holes

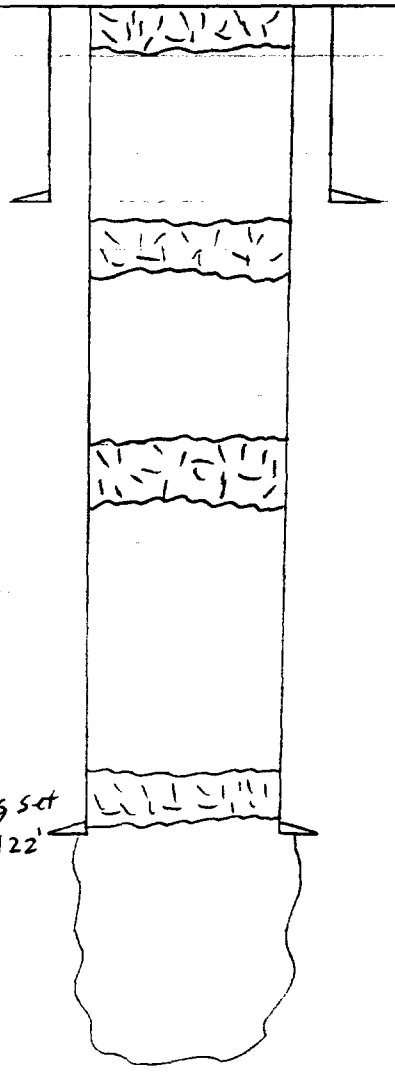
TD: 8750'
PBTD: 8705'

Mobil P&A'd: 2-9-89

P&A'D WELL WITHIN ONE-HALF MILE

TEXACO New Mexico W State NCT-1 #1
660' FSL & 1980' FEL
Unit O Sec 13 T17S R34E

PRESENT



10sk (90') surface cmt plug

7 5/8" 26.4 lb/ft csg set to 1655' w/ 300sks

25sks cmt plug set 1900 - 1675'

25 sks cmt plug set @ 3000 - 2775'

25sk cmt plug set @ 4347' - 4122'

5 1/2" 17 lb/ft set to 4348' w/ 200sks

San Andres
OH 4348 - 4650'

P&A'd: 6-11-86

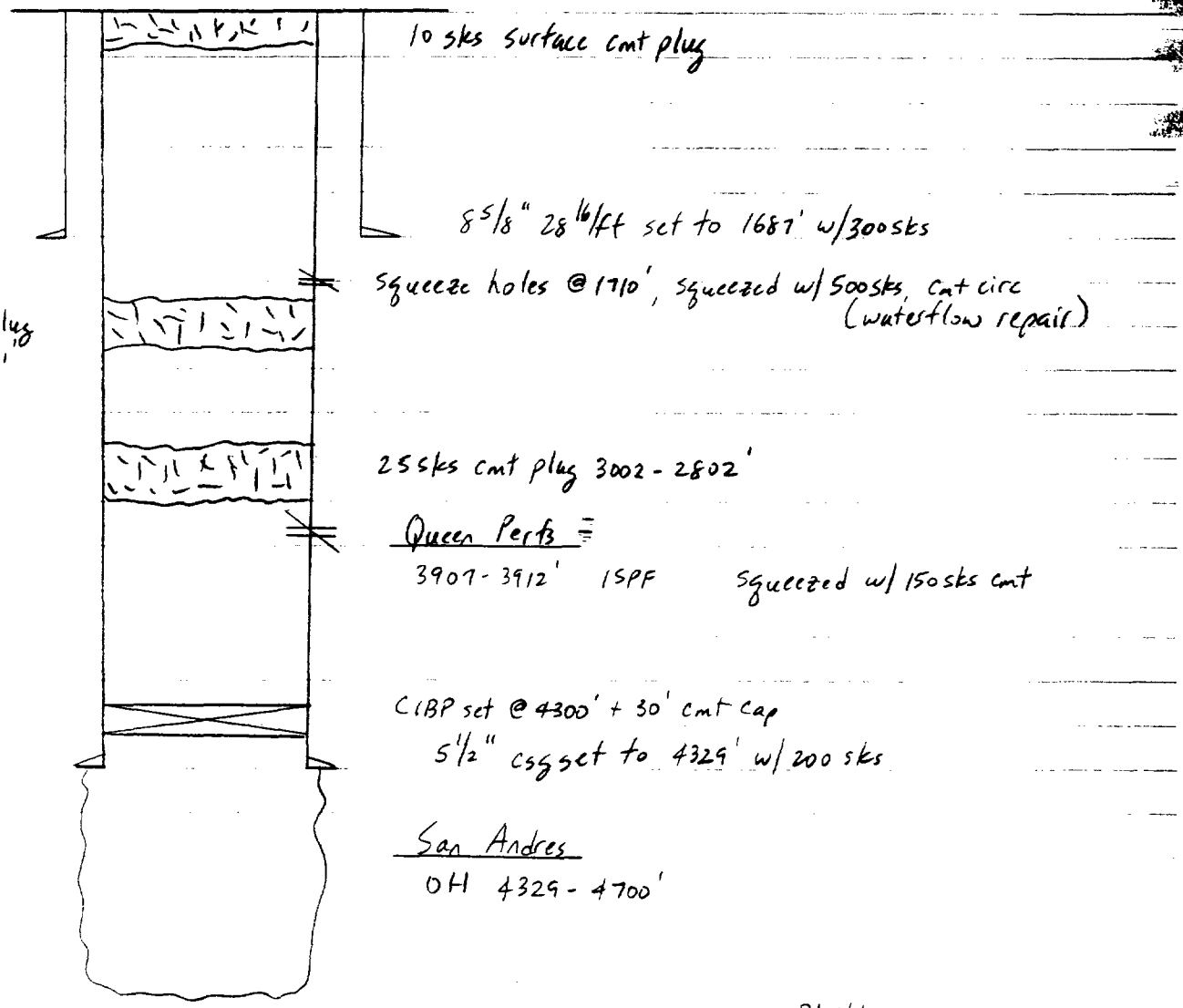
TD: 4680'

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

TEXACO New Mexico State W NCT-1 #2
1980' FSL & 1980' FEL
Unit J Sec 13 T17S R34E

PRESENT



P&A'd: 8-15-88

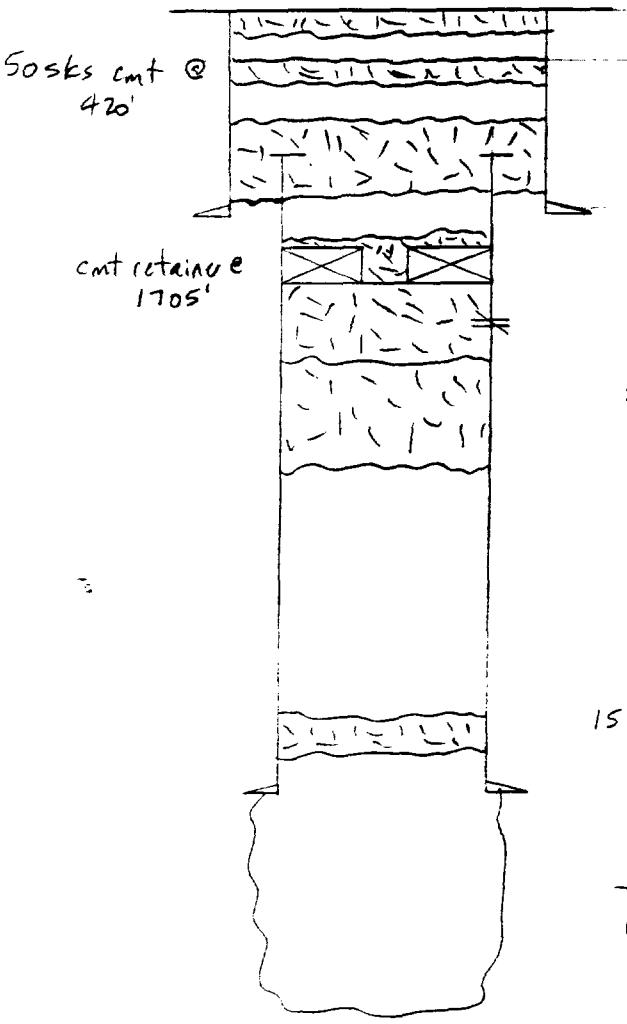
TD: 4700'

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

SHELL State C#1
1980' FSL & 660' FEL I Sec 24 T17S R34E

PRESENT



50 sk surface plug

cmt plug (60sks) 1020 - 775'

5 1/2" csg cut @ 960'

8 5/8" csg set to 1693', cmt w/ 600sks

Squeeze holes @ 1805', squeezed w/ 130 sks cmt

500 sk cmt plug 2964 - 1820'

15 sk cmt plug @ 4200'

5 1/2" 14 lb/ft csg set to 4350', cmt w/ 275 sks

San Andres
OH 4585 - 4690'

TD: 4733'

Initial P&A: 12-10-53
Re-enter to P&A: 8-1-80

DGE 5-31-90

P&A'D WELL WITHIN ONE-HALF MILE

DATE 1-5-89 WELL NO. 230 W/W LEASE North Vacuum Abo Unit

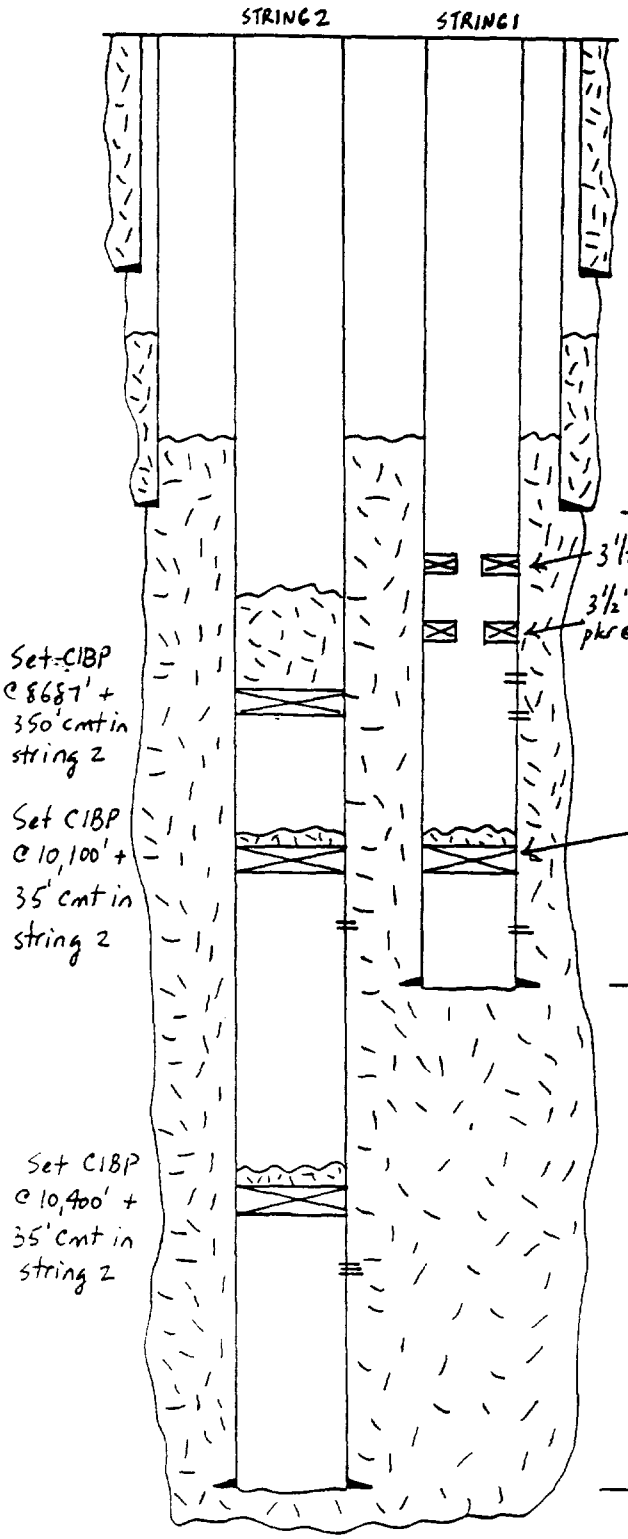
FIELD Vacuum Abo North LOCATION J-13-T17S-R34E

Lea County, New Mexico

SIGNED D. G. Elwood

GL 4061'
DF 4060'
KB 4047'
ZERO KB (14' AGL)

PRESENT WELLBORE DIAGRAM



16" 65 lb/ft csg set to 300' w/525 sks, circ cmt
TOC (16" & 10 3/4") @ 3430', calculated

10 3/4" 40.5, 50 lb/ft J-55 csg set to 4800' w/550 sks

3 1/2" Baker FA perm pkr @ 8430', junked no mandrel

3 1/2" Baker FA perm pkr @ 8482', leaks

Abo Perfs (string 1)
8528-30, 46-49, 52-54, 54-62, 66-79, 85-87'
8726-28, 31-33, 78-81' mixed 1, 2 JSPF

Set CIBP @ 8687' + 350' cmt in string 2

Set CIBP @ 10,100' + 35' cmt in string 2

Set CIBP @ 10,106' + 20' cmt (string 1)
Perfed string 1 10,185-190, 197-210'. Perfed string 2 10,185-189', Comm both strings

3 1/2" 9.3, 9.4 lb/ft csg set to 10,269' TD: 10,299'
PBTD: 10,086'

Set CIBP @ 10,400' + 35' cmt in string 2

Middle Penn Perfs (string 2) TA'd. 1985
10,472-88' 2 JSPF 32 holes

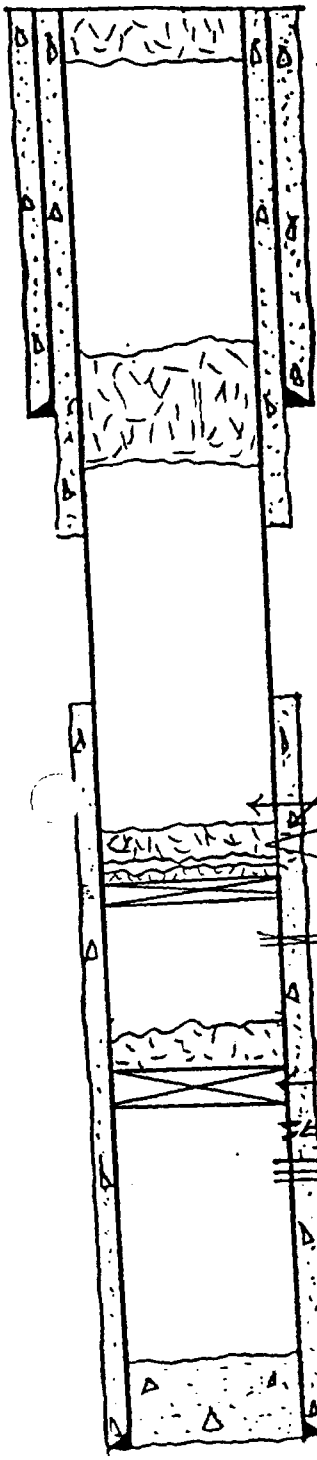
3 1/2" 9.3, 9.4 lb/ft csg set to 10,582' TD: 10,582'
Both 3 1/2" strings cmt w/2125 sks PBTD: 8337'

LOCATION A-23-17S-34E [redacted] FEL

SIGNED D. G. Elwood

G.L. ____
D.F. ____
K.B. ____
ZERO 14' AGL

Bridges State # 189



10 sks surface cmt plug

P&A'd 1-89

BRADENHEAD SQZ w/ 400 sx CL. C + 2% $CaCl_2$

25 sks cmt plug 498-202'

357' 8⅝" 24# K-55 ST+C CSG w/ 250 sx CL. C + 2% $CaCl_2$ + ¼# FLOCELE/SX (CMT CIRC.)

585' BOTTOM OF CMT (TEMP SURVEY)

TOC 1030' (TEMP SURVEY)

30 sks cmt plug 2215-1948'

wellbore circ w/ FW + NL Coat 1270 pkr fluid

Csg leak loc 2051-2066'

CIBP set @ 3542' + 6sks cmt cap

squeeze holes @ 4140', Squeezed w/ 50 sks

5½ Elder HydroSet CIBP set @ ±[redacted]' + [redacted]' cmt DGE 12-30-88

4398'

44'

Tight spot in Csg @ 4406-09'

GRAYBURG - SAN ANDRES PERFS 4542 - 4546 1 JSPF 5 HOLES

4572 - 4590 1 JSPF 19 HOLES

4741' PBTD

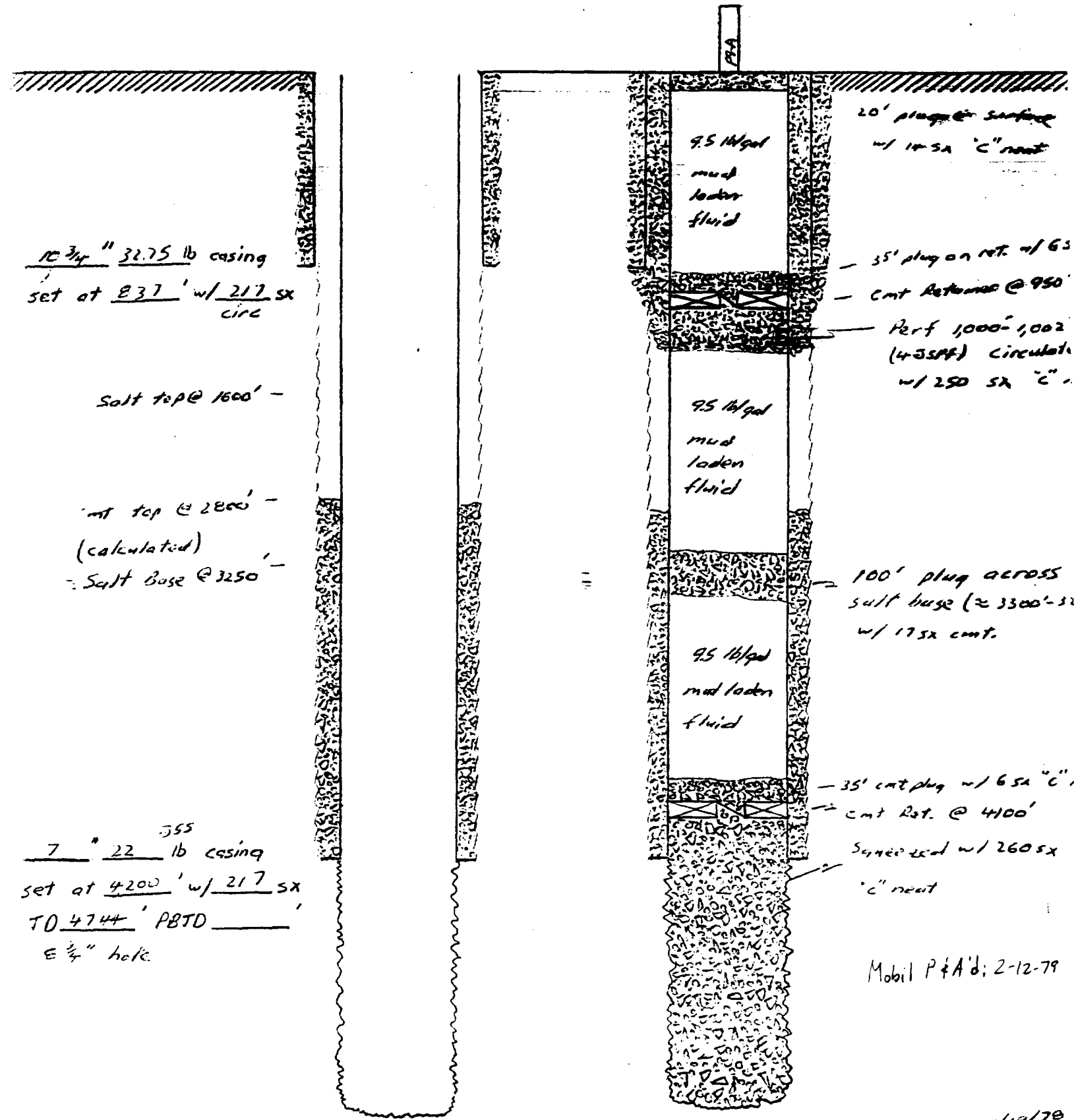
4750' 5½" 14# K-55 ST+C CSG w/ 2200 sx CL. C CMT

TD - 4750'

Mobil P&A'd: 1-21-89

DGE
7-6-88

Field: Vacuum Glorieta/San Andres	Date 10/19/78	T/A Date 7/76	
Lease: Bridges State	Well No. 34	County-State Lea, New Mexico	
Location: L-S 26-T17S-R34E	Completion Date: 8/39	Elev. 4039'	KB Elev 4045'



ILLEGIBLE

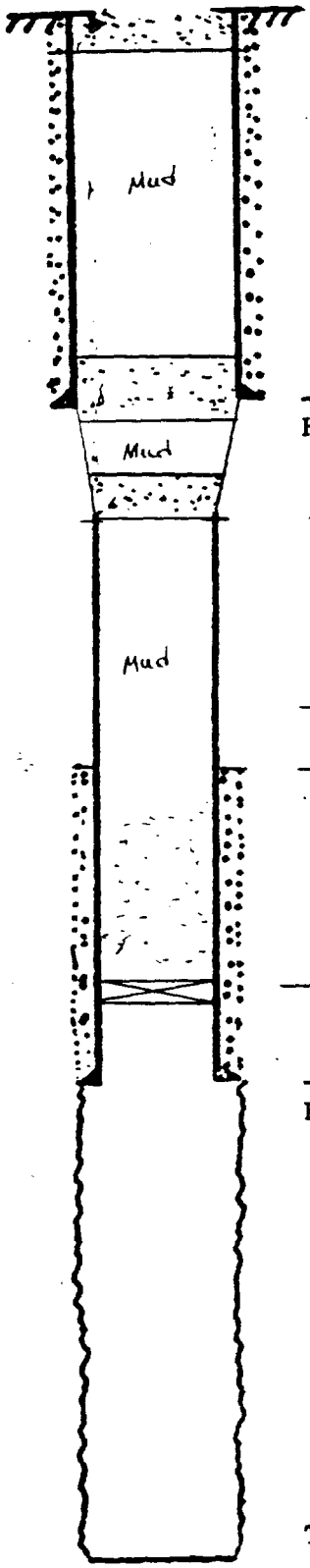
updated 10/19/78 RDG

RDG 10/24/7

P&A

FIELD	OPERATOR	DATE
Vacuum Grbg San Andres	Mobil Oil	5-24-76

LEASE	WELL No	LOCATION
Bridges State	71	C-14-17S-34E



10 sx plug

50 sx plug at 836'

10 3/4 " casing set at 336 ' with 250 sx of _____ cement

Hole size 12 1/4 "

50 sx plug

— 1160' Cut and pull 5 1/2" csg

— 2,985' Casing may be parted

— 2750' Calculated Cmt Top

— 4,339' EZ Drill BP

5 1/2 " casing set at 4375 ' with 210 sx of _____ cement

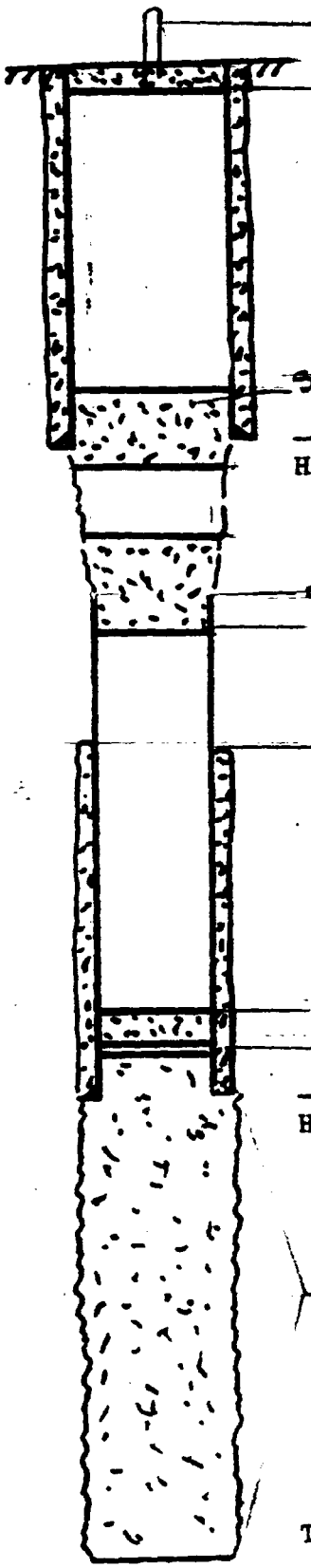
Hole size _____ "

Mobil P&A'd: 5-1-71

Total Depth 4772'

Ind

FIELD	OPERATOR	DATE
Vacuum (G-SA)	Mobil Oil Corp	5-28-76
LEASE	**WELL No**	**LOCATION**
Bridges State	70	B - Sec. 14, T17S, R35E



Set P & A Marker

Spot 10 Sx Cement To Surf.

Spot 50 Sx Cement - 757'- 885'

10 3/4 " casing set at 835 ' with 250 sx of _____ cement

Hole size 12 1/4 "

Cement Circ

Shot casing at 1160'

Spot 35 Sx Cement - 1093'- 1215'

Cement Top - 2480' (calc)

Spot 2 bbl. Cement on Ret.

Cement Retainer - 4300'

5 1/2 " casing set at 4371 ' with 210 sx of _____ cement

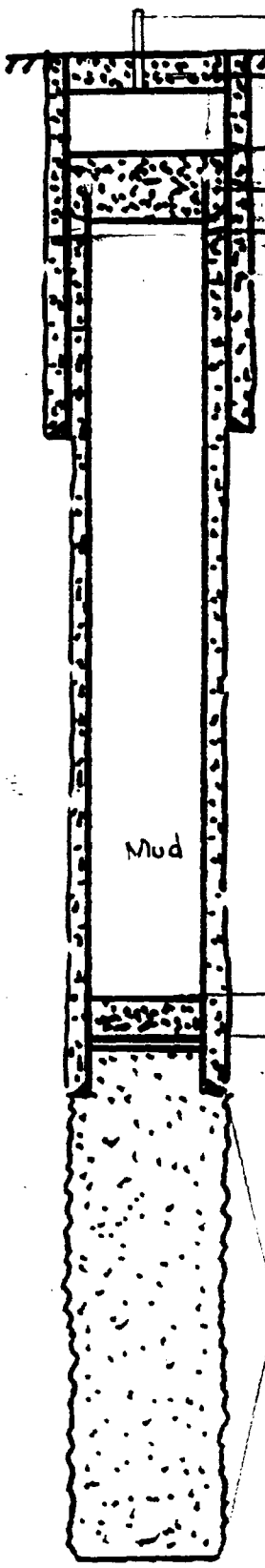
Hole size 7 3/8 "

Sqzd. OH 4371'- 4740 w/ 200 Sx Cement

Mobil P & A'd: 2-2-73

Total Depth 4740'

FIELD	OPERATOR	DATE
Vacuum (Grayburg)	Mobil Oil Corp.	5-28-76
LEASE	**WELL No**	**LOCATION**
Bridges State	80	B - Sec. 13, T17S, R3



Set P & A Marker

Set 10 sx Cement To Surf

Spot 30 sx Cement at 380'

Pull 5 1/2" casing To 330'

Cement Top - 385' - Temp. Survey

8 5/8" casing set at 1689' with 900 sx of _____ cement
Hole size 11"
Cement circ

Spot 1 bbl. Cement on Ret.

Set Cement Retainer - 4615'

5 1/2" casing set at 4665' with 1950 sx of _____ cement
Hole size 7 7/8"

Sqzd. OH 4665'-4716' w/ 200 sx Cement

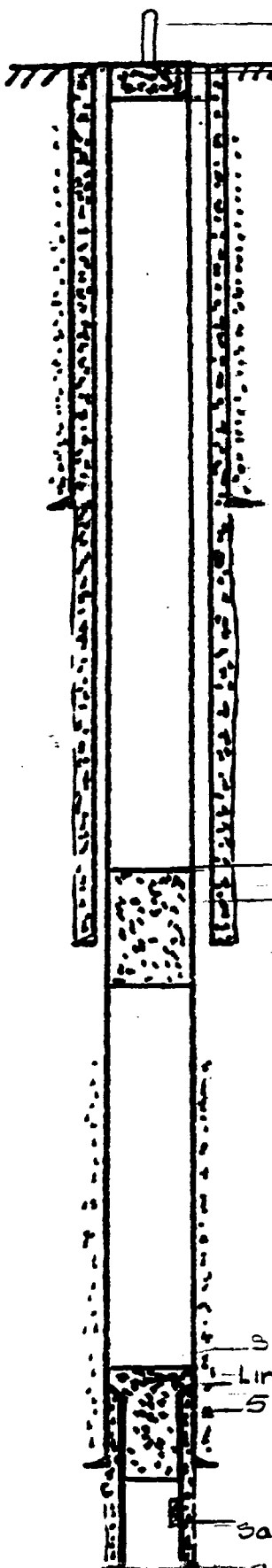
Mobil P & A'd: 2-15-73

Total Depth 4716'

5-24-76

P+A

FIELD	OPERATOR	DATE
Vacuum (G-SA)	Mobil Oil Corp	5-26-76
LEASE	**WELL No.**	**LOCATION**
Bridges State	1	F - Sec 13, T17S, R35E



Set P&A Marker

Spot 10 Sx Cement to Surface

15½" casing set at 319' with ? sx of _____ cement
Hole size ?"
Cemented -

Spot 35 sx Cement - 1550'-1650'

Hole at 1595' Sqzd w/ 200 Sx Cement - Circulated.

10" casing set at 1600' with ? sx of _____ cement
Hole size ?"
cemented

Mobil P&A'd: 2-8-73

Spot 60 Sx Cement 4200'-4450'

Liner Top - 4258'

5½" Liner Cemented w/ 200 Sx Cement

8⅝" casing set at 4380' with ? sx of _____ cement
Total Depth 4900' Hole size ?" cemented

San Andres Perf - 4586'-4644' - Sqzd. w/ 200 Sx C.I.H. Cement

P&A'D WELL WITHIN ONE-HALF MILE

DATE 12-8-88 LL NO. 6 W/W LEASE State VA

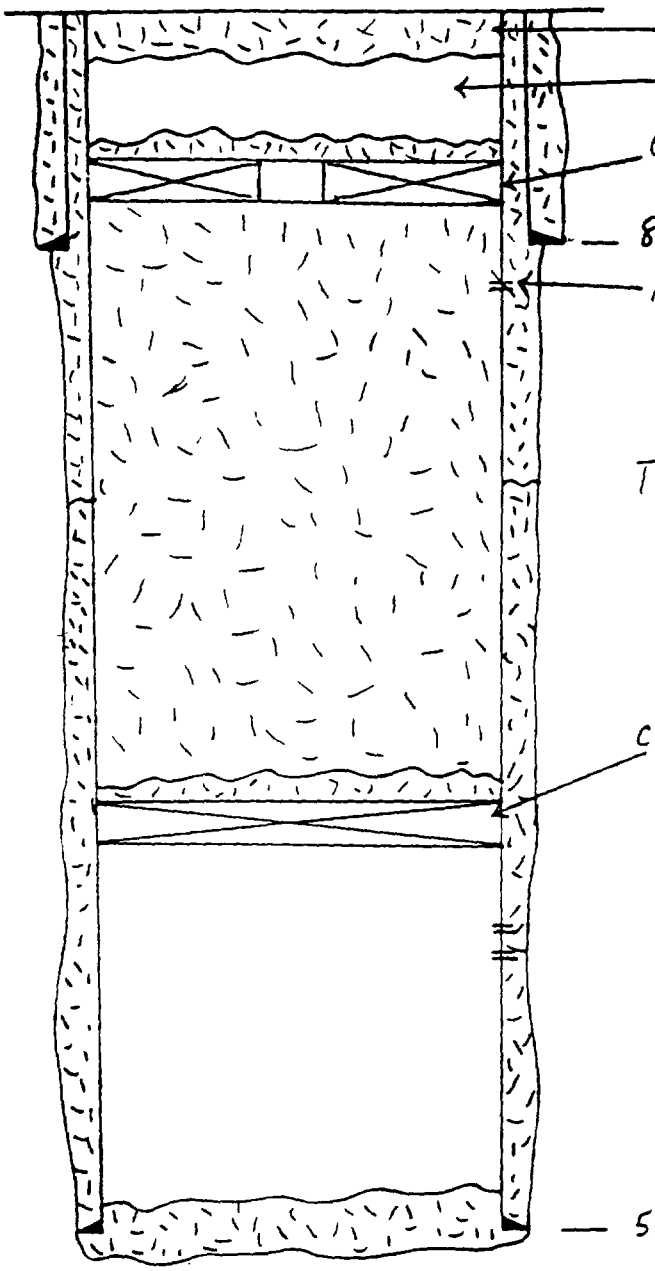
FIELD Vacuum Grybg/SA LOCATION Lea County, New Mexico 660' FSL & 660' FWL

M Sec 23 T17S R34E

SIGNED D. G. Elwood

GL 4029'
DF 4039'
KB 4040'
ZERO KB (11' AGL)

PROPOSED WELLBORE DIAGRAM



10 sk cmt plug @ surface

Wellbore circ w/gelled brine

Cmt retainer set @ 1436' + 13 sks (est TOC @ 1336')

8 5/8" 24 lb/ft & 32 lb/ft csg set to 1594' w/1075 sks, cmt circ

Perf @ 1654' 2SPF, squeezed w/350 sks, circ to surface

TOC (behind 5 1/2" csg) @ 2450' (temp survey)

=

CIBP set @ 4483' + 12 sks cmt

San Andres Perfs

4563-71, 75-81, 4592-4600' 2SPF 44 holes

5 1/2" 15.5, 17, 20 lb/ft csg set to 4700' w/565 sks

TD: 4700'
PB TD: 4656'

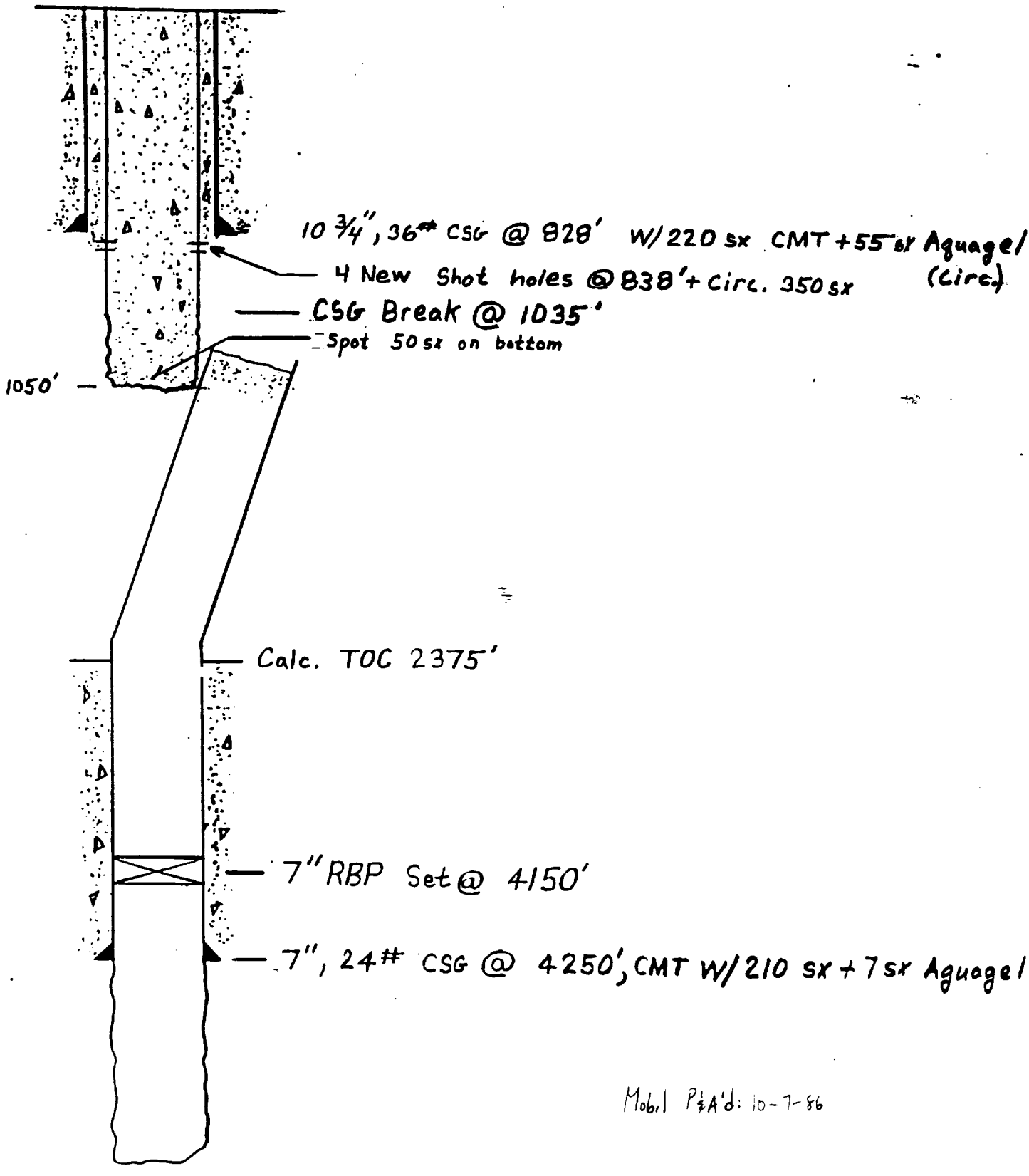
Mobil P&A'd 3-8-89

DATE 7-7-86 WELL NO. 29 LEASE Bridges State FIELD Vacuum GBG

LOCATION M-26-17S-34E SIGNED D.A. Howell G.L. 4037'
D.F. _____
K.B. _____
ZERO _____

660' FSL & 660' FWL
Lea County, NM

PROPOSED



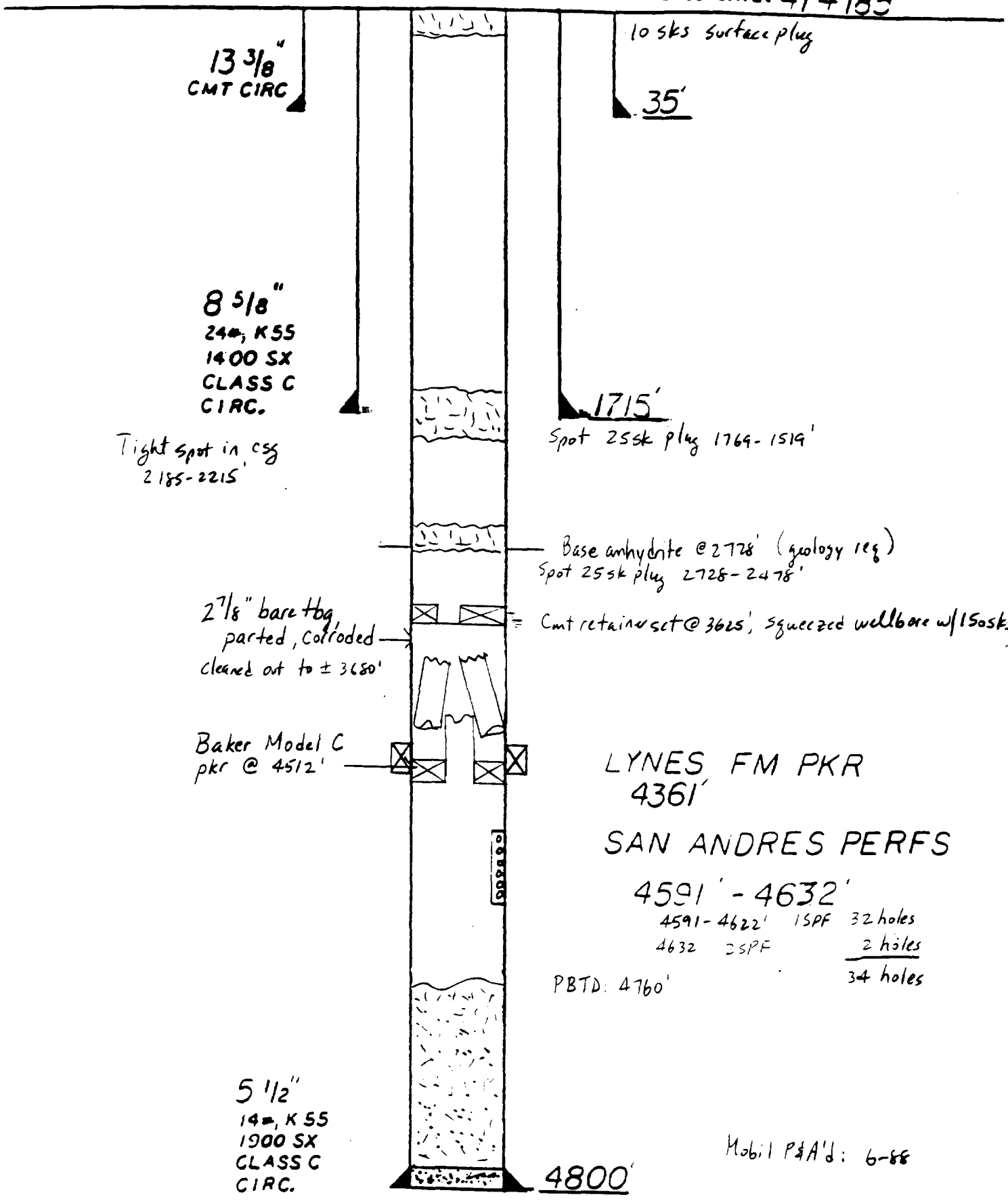
Mobil P&A'd: 10-7-86

BRIDGES STATE 195

LOCATION: S-23 Unit D
T-17S 164' FNL & 1308' FWL
R-34E

PRESENT SKETCH

KB: 4038'
GL: 4025'
SPUD DATE: 4/4/85



Mobil P&A'd: 6-88

DATE 6-15-89 WELL NO. 61 LEASE Bridges State

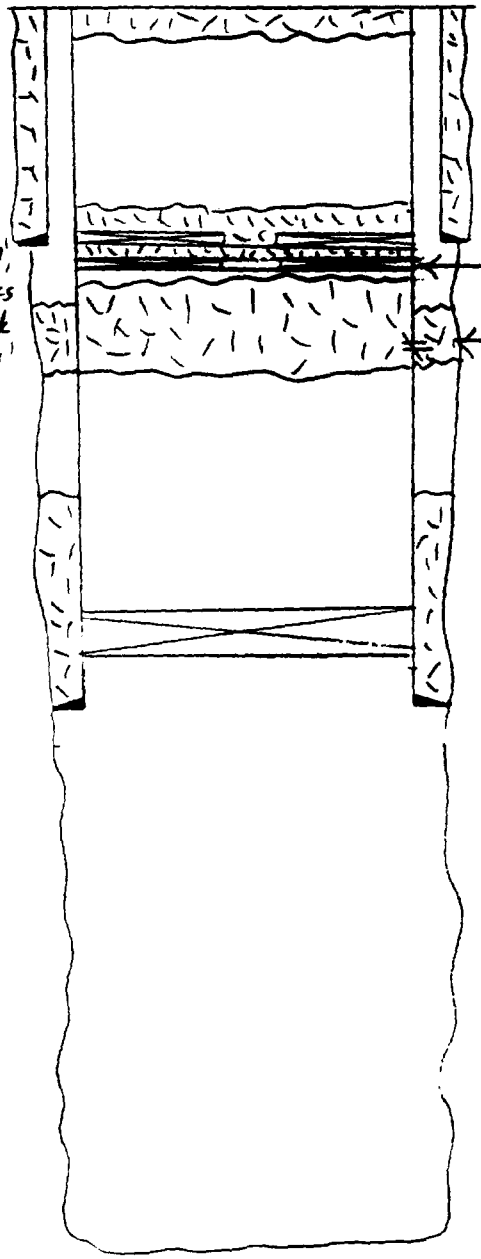
FIELD Vacuum Grbg/San And. LOCATION J Sec 14 T17S R34E 1980' FSL & 1980' FEL

Lea County, NM

SIGNED D G Elwood

GL 4030' (estimate)
DF 4043'
KB 4042'
ZERO KB (12' AGL)

PROPOSED WELLBORE DIAGRAM



60' surface cmt plug

100' cmt plug inside 7", across 10 3/4" shoe, TOC @ 790'

10 3/4" csg set to 837' w/ 250 sks, cmt circ

retainer set @ 1087', circ 250sks thru leak @ 1087'

Cmt retainer @ 1430', squeeze csg w/ 100sks

Squeeze holes perfed 1750-52' 4SPF, circ 105ks behind csg + 150' cmt plug in csg

calculated TOC behind 7" @ 2737'

CIBP set @ 4250' + 35' cmt cap

7" csg set to 4347' w/ 220 sks

Grayburg / San Andres

Open hole 4347- 4709'

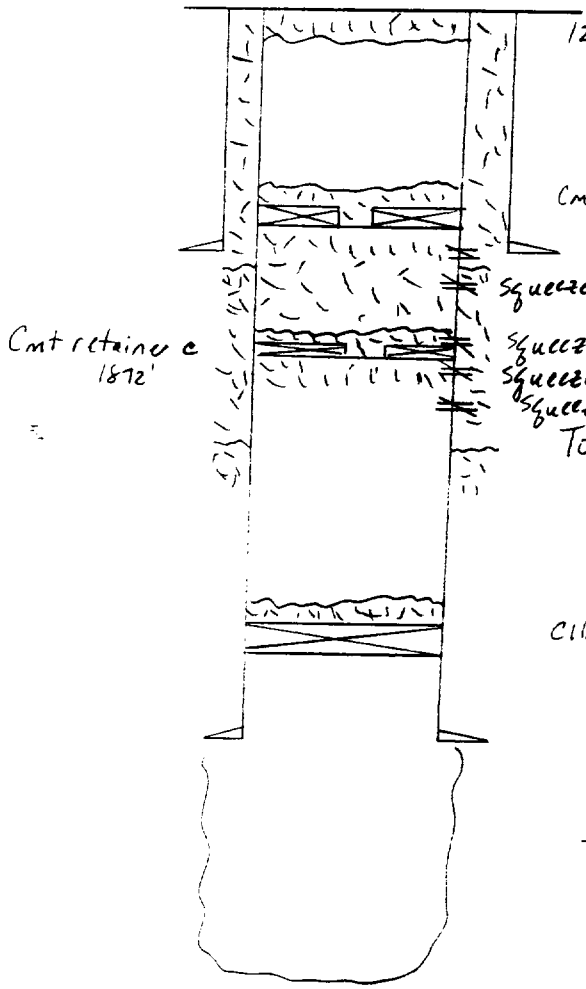
Mobil P&A'd: 0-89

TD: 4709'

P&A'D WELL WITHIN ONE-HALF MILE:

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)
State VA #1
Unit N Sec 23 T17S R34E
660' FSL & 1980' FWL Lea County, NM

PRESENT



TD: 4740'
PB TD: 4740

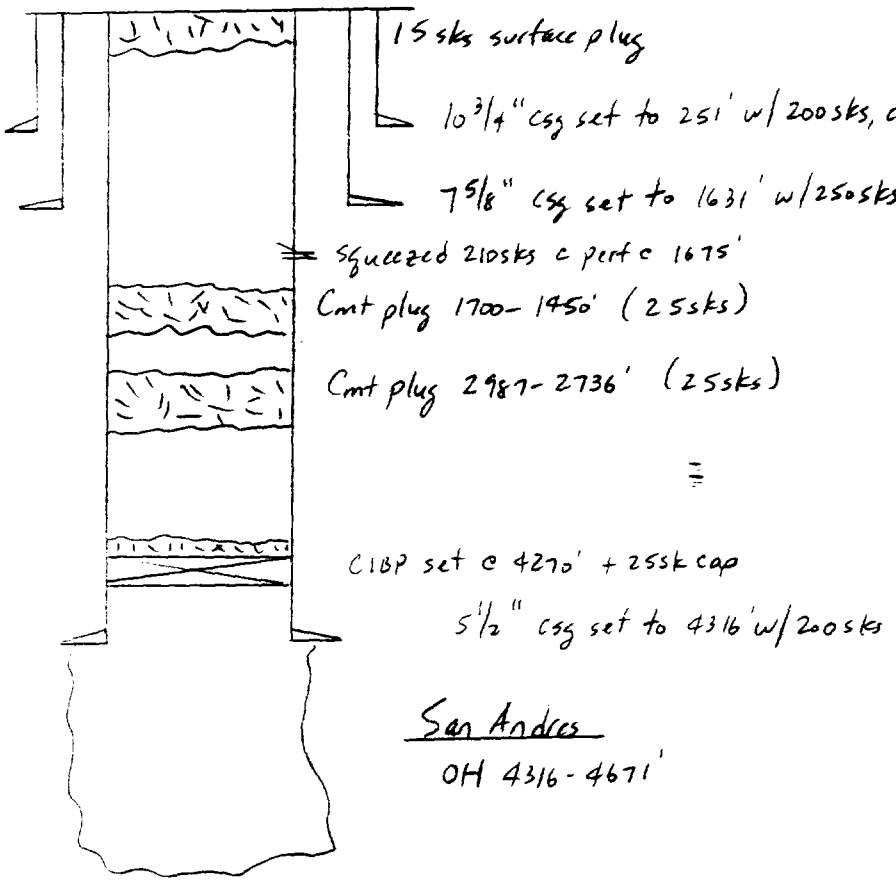
Amerada P&A'd:

DGE 6-4-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)
State VA #2
Unit L Sec 23 T17S R34E Lea County, NM

PRESENT



TD: 4671'
PBTD: 4671'

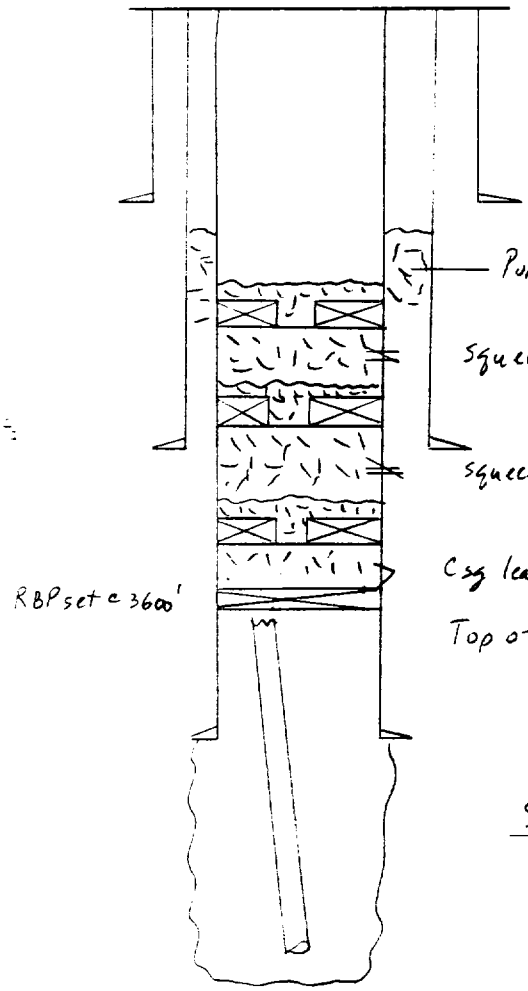
Amerada P&A'd: 9-29-82

DCE 6-5-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)
State VA #3
Unit K Sec 23 T17S R34E 1980' FSL & 1980' FWL
Lea County, NM

PRESENT



13" 40 lb/ft csg set to 227' w/200sks

Pumped down annulus w/ 125sks, Toc @ 350'

Squeezed perfs @ 1193' w/ 250sks cmt, retainer @ 1062' + cmt cap

9 5/8" 36 lb/ft csg set to 1641' w/250sks

Squeezed perfs 1660-62' w/ 360sks, retainer @ 1548' + 20sk cap

Csg leaks 2419-3634'; squeezed w/ 400sks, cmt retainer @ 2300' + 20sk cap

RBP set @ 3600'

Top of junk rods + tbg: 3645'

7" 24 lb/ft csg set to 4311' w/ 200sks

San Andres
OH 4311-4662'

TD: 4662'
PBTD: 4662'

American P&A'd. 7-8-76
Amerada re-P&A'd: 6-19-80

DGE 6-5-90

P&A'D WELL WITHIN ONE-HALF MILE

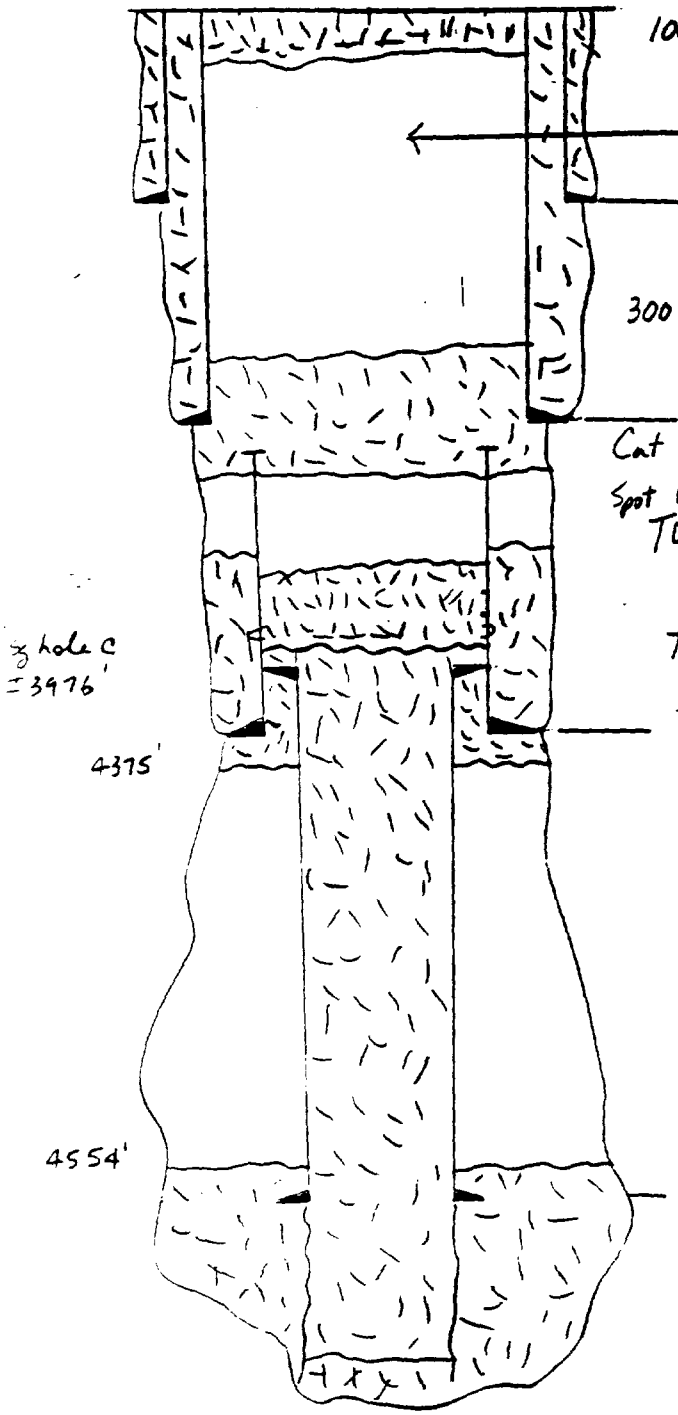
DATE 4-26-90 WELL NO. 2 LEASE Bridges State

FIELD Vacuum Grbg/SA LOCATION Unit O Sec 14 T17S R34E 660' FSL & 1980'
Lea County, NM

SIGNED D G Elwood

GL 4039'
DF 4044'
KB 4056'
ZERO KB (11' AGL)

PROPOSED WELLBORE DIAGRAM



100' (40 sks) surface plug

Wellbore circ w/gelled brine (9-10 ppg)

16" 70 lb/ft csg set to 60', cmt circ

300' cmt plug (125 sks) across top salt, 10 3/4" shoe, 7" stub
1950-1650' TAG

10 3/4" 40.5 lb/ft csg set to 1853' w/ 490 sks, cmt circ

Cut 7" @ ± 1900'

Spot 150 sk plug 3980-3830'

TOC (calc w/ 25% excess) @ ± 3055'

Squeeze 150 sks into leak @ 3976'

TOL @ 4156' (No temp survey, est BOC @ ± 4375')

7" 24 lb/ft csg set @ 4364' w/ 315 sks (est 9 5/8" hole)

150 sks cmt plug 4090 - 4630' (± 45 sks in csg, ± 105 sks in OH & formation)

San Andres Injection

OH 4574 - 4630'

5" 15 lb/ft liner set @ 4574' w/ 300 sks + 200 sks over liner top (est 6 3/4" hole)
(est only tacked csg w/ 20' cmt)

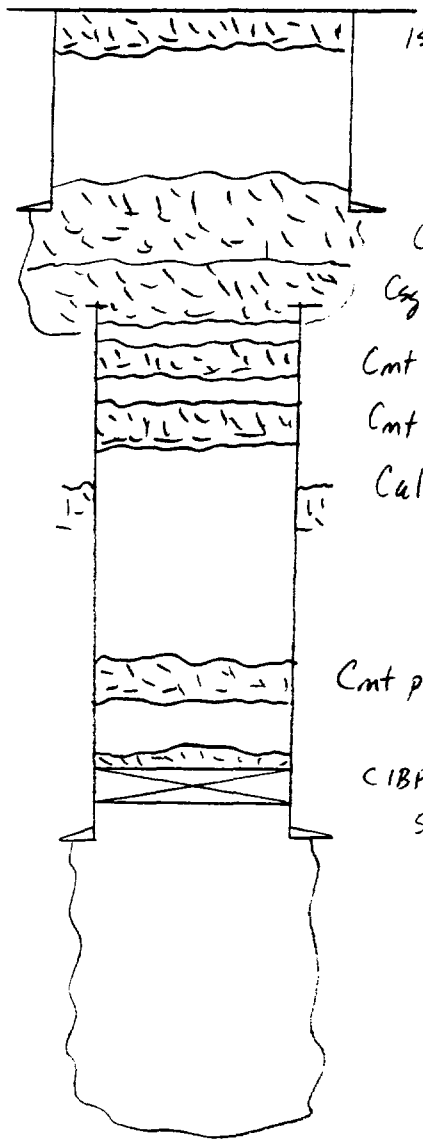
Mobil P&A'd: 5-9-90

TD: 4715' PBTD: 4630'

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #69
Unit F Sec 13 T17S R34E
1980' FNL & 1980' FWL Lea County, NM

PRESENT



Mobil P&A'd: 3-2-90

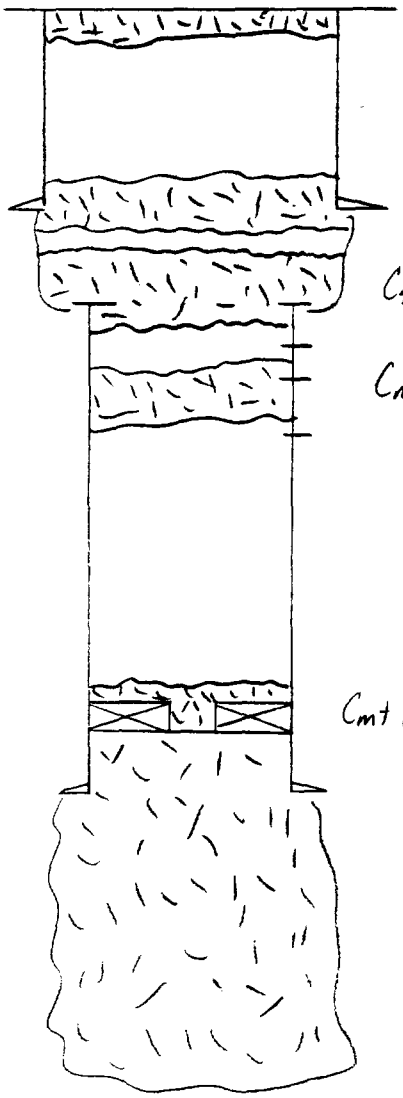
TD: 4706'
PBTD: 4706'

DGE 6-1-90

P&A'D WELL WITHIN ONE-HALF MILE

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State # 45
Unit D Sec 13 T17S R34E
Lea County, NM

PRESENT



$10^3/4$" csg set to w/ sks, cmt plug (50sks), 863-753'

Csg cut @ 1199' (attempts @ 1979, 1683, 1505'), cmt cap 1250-1020'

Cmt plug 1800-1625' (35 sks)

Cmt retainer set @ 4338', squeezed OH w/150cks + 5sk cap

7" csg set to 4394 w/ sks

San Andres Perfs
OH 4394-4720'

Mobil P&A'd 1-17-73

TD: 4720'
PBTD: 4720

DGE 6-1-90

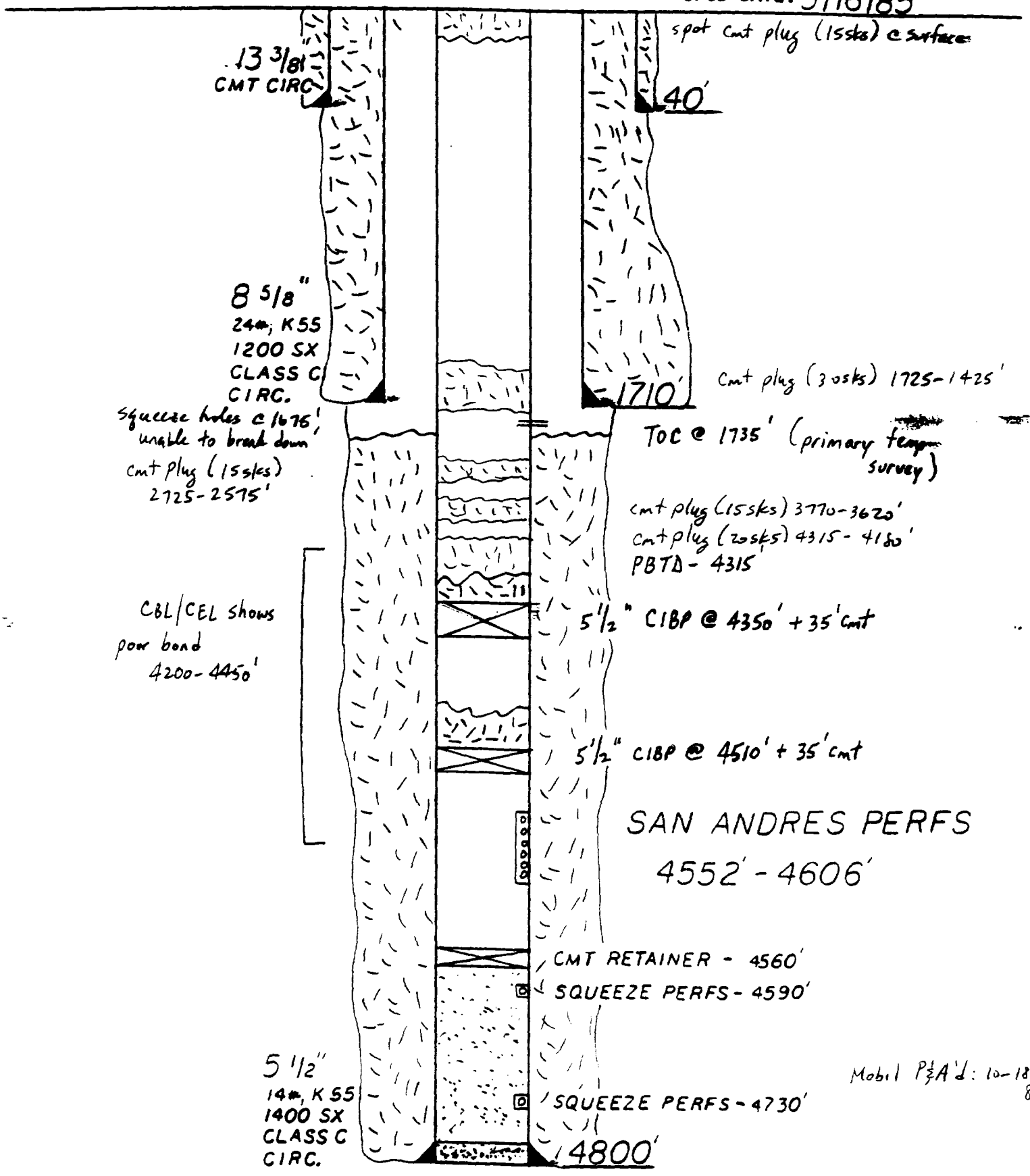
BRIDGES STATE 193

P&A'd WELL WITHIN ONE ~~HALF~~ MILE

LOCATION: S-23
T-17S
R-34E

PRESENT DIAGRAM

KB: 4042'
GL: 4030'
SPUD DATE: 3/16/85



Mobil P&A'd: 10-18-89

TD: 4800' PBTD: 4315'

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-107
5-1-61

APPLICATION FOR MULTIPLE COMPLETION

1) Note:this is a proposed future drill well.
2) See application to downhole commingle Glorieta & Blinebry zones.

Operator	County	Date
Mobil Exploration & Producing U.S. Inc.	Lea	6/15/90
Address	**Lease**	**Well No.**
Box 633, Midland, TX 79702	North Vacuum Abo Unit Bridges State	601

Location of Well	Unit	Section	Township	Range
	F	25	17S	34E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X

2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum Grayburg/San Andres	Vacuum Glorieta	Vacuum Blinebry
b. Top and Bottom of Pay Section (Perforations)	4444-5923'	5923-6303	6303-7300
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection

4. The following are attached. (Please check YES or NO)

Yes	No	
X		a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X		b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X		c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
	X	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

See attached list

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 6/15/90.

CERTIFICATE: I, the undersigned, state that I am the Environmental, Regulatory Loss Prevention Supervisor of the Mobil Exploration & Producing US Inc As Agent for Mobil Producing TX & New Mexico Inc. Mobil Producing Texas & New Mexico Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Guy D. Miller

G. N. Miller — Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application

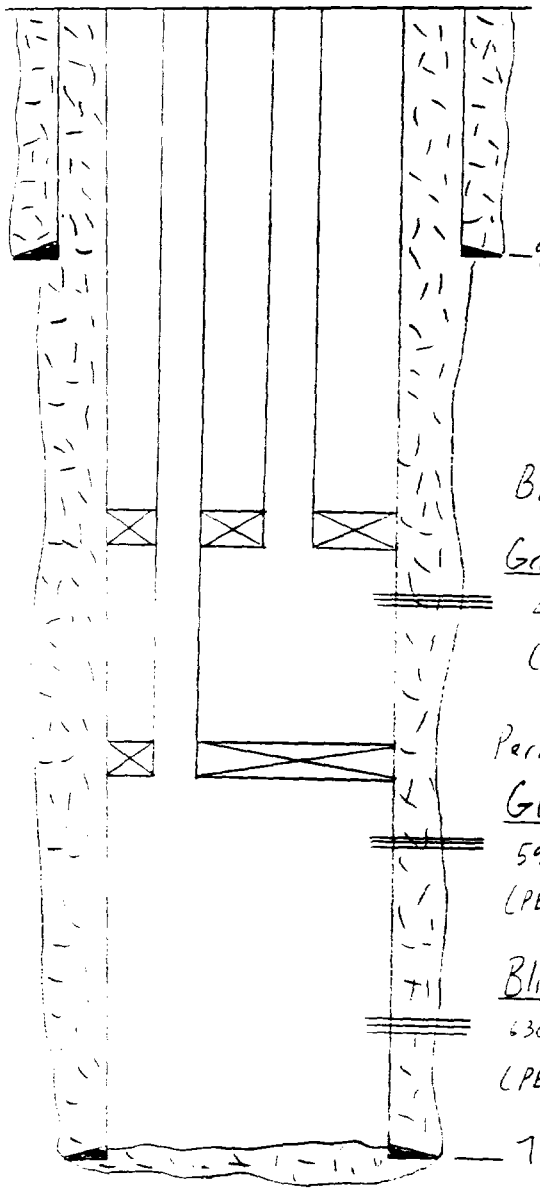
DATE 5-30-90 **WELL NO.** 601 **LEASE** Bridges State

FIELD Vacuum Glorieta, Blinebry, + Grayburg / San Andres **LOCATION** Unit F Sec 25 T17S R34E Lea County, NM

SIGNED J G Elwood

GL NA
DF
KB
ZERO

PROPOSED DIAGRAM
(TO BE DRILLED)



9 5/8" csg set to ± 1600', cmt circ
(12 1/4" hole)

Baker Model A-5 Hydrostatic Dual pkr set @ ± 4400' + 2 3/8" J-55 bare tbg PROPOSED

Grayburg / San Andres Perfs
4444-5923' interval
(PERFS TO BE DETERMINED)

Perm pkr set @ ± 5900' + 2 3/8" J-55 bare tbg PROPOSED

Glorieta Perfs
5923-6303' interval
(PERFS TO BE DETERMINED)

Blinebry Perfs
6303-7300' interval
(PERFS TO BE DETERMINED)

7" csg set to ± 6400', cmt circ
(8 3/4" hole)

TD: ± 6400'
PBTD: ± 6400'

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-107
5-1-61

APPLICATION FOR MULTIPLE COMPLETION

1) NOTE: This is a proposed future drill well.
2) See application to downhole commingle Glorieta and Blinebry zones.

Operator	County	Date
Mobil Exploration & Producing U.S. Inc.	Lea	6/15/90
Address	**Lease**	**Well No.**
Box 633, Midland, TX 79702	North Vacuum Abo Unit Bridges State	602

Location of Well	Unit	Section	Township	Range
	D	25	17S	34E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X

2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Vacuum Grayburg/SanAndres	Vacuum Glorieta	Vacuum Blinebry
b. Top and Bottom of Pay Section (Perforations)	*4444-5923'	5923-6303'	6303-7300'
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection

4. The following are attached. (Please check YES or NO)

Yes	No	
X		a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X		b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X		c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
	X	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

See attached list

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 6/15/90.

CERTIFICATE: I, the undersigned, state that I am the Environmental, Regulatory Loss Prevention Supervisor of the Mobil Producing Texas & New Mexico Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Mobil Exploration & Producing US Inc.
As Agent for
Mobil Producing TX & New Mexico Inc.

Guy D. Miller
G. N. Miller — Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

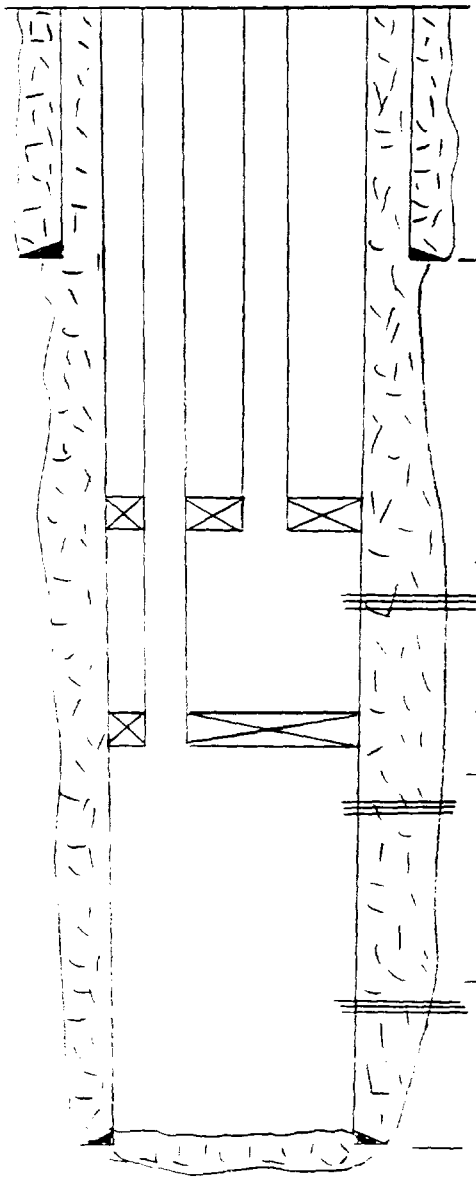
DATE 5-30-90 **WELL NO.** 602 **LEASE** Bridges State

FIELD Vacuum Glorieta, Blinebry, Grayburg / San Andres **LOCATION** Unit D Sec 25 T17S R34E Lea County, NM

SIGNED D G Elwood

GL NA
DF
KB
ZERO

PROPOSED DIAGRAM
(TO BE DRILLED)



9 5/8" csg set to ± 1600', cmt circ
(12 1/4" hole)

Baker Model A-5 Hydrostatic Dual pkr set @ ± 4400' + 2 3/8" J-55 bare tbg PROPOS

Grayburg / San Andres Perfs
4444 - 5923' interval
(PERFS TO BE DETERMINED)

Perm pkr set @ ± 5900' + 2 3/8" J-55 bare tbg PROPOSED

Glorieta Perfs
5923 - 6303' interval
(PERFS TO BE DETERMINED)

Blinebry Perfs
6303 - 7300'
(PERFS TO BE DETERMINED)

7" csg set to ± 6800', cmt circ
(8 3/4" hole)

MOBIL EXPLORATION & PRODUCING U.S. INC.
SECTION 24 and 25, T-17-S, R-34-E
VACUUM FIELD
LEA COUNTY, NEW MEXICO

This application was sent by certified mail to the surface owner of the land on which the well is located and to each offset operator/mineral owner.

OFFSET OPERATOR

ATTN: S. C. SCHRAUB
MARATHON OIL COMPANY
P. O. BOX 552
MIDLAND, TEXAS 79702-0552

ATTN: A. W. DEES
TEXACO, INC.
BOX 3109
MIDLAND, TEXAS 79702-3109

SHELL WESTERN E & P INC.
P.O. BOX 576
HOUSTON, TEXAS 77001

NEW YORK LIFE OIL & GAS ET AL
2100 NCNB CENTER
700 LOUISIANA
HOUSTON, TEXAS 77002

EXXON COMPANY, U.S.A.
BOX 2180
HOUSTON, TEXAS 77252-2180

THE MCBEE COMPANY, A TEXAS
GENERAL PARTNERSHIP
3738 OAK LAWN, AVE. LB 200
DALLAS, TEXAS 75201

ARTHUR L. BOOTH, ET UX
1905 CARMEL
PLANO, TEXAS 75077

PETRO LEWIS CORPORATION
717 17TH STREET
DENVER, COLORADO 80202

JOHN E. STEIN, TRUST OR
SUCCESSOR IN TRUST OF THE
JOHN E. STEIN REVOCABLE TRUST
3953 SOUTH NEWPORT WAY
DENVER, COLORADO 80237

AMERICAN PRODUCTION & EXPL.
2100 NCNB CENTER
700 LOUISIANA
HOUSTON, TEXAS 77080

JOHN G. MCMILLIAN, JR.
OFFICE IN THE GROVE SUITE 800F
2699 SOUTH BAYSHORE DRIVE
COCONUT GROVE, FLORIDA 33133

PHILLIPS PETROLEUM COMPANY
4001 PENBROOK
ODESSA, TEXAS 79762

ARCO
BOX 1610
MIDLAND, TEXAS 79702

YUCCA SALVAGE COMPANY
4000 NORTH BIG SPRING
SUITE 305
MIDLAND, TX 79705

MINERAL OWNER & SURFACE OWNER

STATE OF NEW MEXICO
BOX 2088
SANTA FE, NEW MEXICO 87501

B:M12748A.JWD

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

700 W. [illegible]
MIDLAND, TEXAS 79701
PHONE [illegible]

RESULT OF WATER ANALYSES

LABORATORY NO. 590306

TO: Ms. Donna Ellwood
P.O. Box 633, Midland, Texas

SAMPLE RECEIVED 5-29-90
RESULTS REPORTED 6-1-90

COMPANY MEPUS LEASE Central NVA Station
FIELD OR POOL Vacuum
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Supply water - taken from raw water line. 5-29-90
NO. 2
NO. 3
NO. 4

REMARKS: Sample taken by Tom Elrod, Martin Water Labs., Inc.

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018			
pH When Sampled				
pH When Received	8.39			
Bicarbonate as HCO_3	185			
Supersaturation as $CaCO_3$	4			
Undersaturation as $CaCO_3$	---			
Total Hardness as $CaCO_3$	256			
Calcium as Ca	83			
Magnesium as Mg	12			
Sodium and/or Potassium	49			
Sulfate as SO_4	39			
Chloride as Cl	104			
Iron as Fe	0.25			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	479			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,	2.0			
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	15.18			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO_3	7			
Calcium Carbonate Scaling Tendency	NONE			
Calcium Sulfate Scaling Tendency	NONE			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: Letter of recommendation attached.

Form No. 3

By [signature]
Waylan C. Martin, M.A.

cc: Mr. U.L. Garcia, Lovington, NM

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 590307

TO: Ms. Donna Ellwood
P.O. Box 633, Midland, Texas

SAMPLE RECEIVED 5-29-90

RESULTS REPORTED 6-1-90

COMPANY MEPUS LEASE Bridges State

FIELD OR POOL Vacuum

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Bridges State #13. 5-29-90

NO. 2 Produced water - taken from Bridges State #27. 5-29-90

NO. 3 Produced water - taken from Bridges State #58. 5-29-90

NO. 4 Produced water - taken from Bridges State #102. 5-29-90

REMARKS: 1 & 2 Blinebry 3 & 4 Glorieta - Samples taken by Tom Elrod, Martin Water Labs, Inc

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1081	1.1477	1.1410	1.1352
pH When Sampled				
pH When Received	7.10	7.30	7.59	7.45
Bicarbonate as HCO_3	366	415	476	439
Supersaturation as $CaCO_3$	90	20	70	100
Undersaturation as $CaCO_3$	---	---	---	---
Total Hardness as $CaCO_3$	35,500	28,000	8,200	7,200
Calcium as Ca	11,200	7,400	2,280	2,000
Magnesium as Mg	1,822	2,308	608	535
Sodium and/or Potassium	50,413	80,732	85,421	82,128
Sulfate as SO_4	573	2,780	3,124	3,009
Chloride as Cl	102,267	142,038	134,936	129,255
Iron as Fe	0.07	1.2	12.9	0.65
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	166,642	235,673	226,844	217,366
Temperature °F.				
Carbon Dioxide, Calculated	48	34	25	29
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	74.0	74.0
Resistivity, ohms/m at 77° F.	0.065	0.052	0.053	0.055
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	MODERATE	NONE	MARGINAL	MODERATE
Calcium Sulfate Scaling Tendency	NONE	SEVERE	NONE	NONE

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Form No. 3

By _____

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 590307 (Page 2)

TO: Ms. Donna Ellwood
P.O. Box 633, Midland, Texas

SAMPLE RECEIVED 5-29-90
RESULTS REPORTED 6-1-90

COMPANY MEPUS LEASE Bridges State
FIELD OR POOL Vacuum
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Bridges State #103. 5-29-90
NO. 2 Produced water - taken from Bridges State #110. 5-29-90
NO. 3 Produced water - taken from Bridges State #113. 5-29-90
NO. 4

REMARKS: Glorieta

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1376	1.1383	1.1424	
pH When Sampled				
pH When Received	7.02	7.57	7.01	
Bicarbonate as HCO_3	512	512	403	
Supersaturation as $CaCO_3$	90	50	50	
Undersaturation as $CaCO_3$	---	---	---	
Total Hardness as $CaCO_3$	8,400	8,000	16,500	
Calcium as Ca	2,440	2,200	5,200	
Magnesium as Mg	559	608	851	
Sodium and/or Potassium	82,415	82,722	81,784	
Sulfate as SO_4	2,780	3,038	1,633	
Chloride as Cl	130,675	130,675	136,356	
Iron as Fe	0.86	0.14	0.50	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	219,381	219,755	226,227	
Temperature °F.				
Carbon Dioxide, Calculated	82	27	64	
Dissolved Oxygen.				
Hydrogen Sulfide	106	106	21.0	
Resistivity, ohms/m at 77° F.	0.055	0.054	0.053	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	MILD	NONE	NONE	
Calcium Sulfate Scaling Tendency	NONE	NONE	NONE	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Letter of recommendation attached.

Form No. 3

By _____
Waylan C. Martin, M.A.

cc: Mr. U.L. Garcia, Lovington, NM

RECOMMENDATION CONCERNING FLUID COMPATABILITY OF THE GLORIETA AND BLINEBRY FORMATIONS.

VACUUM RMT MEMO

Water samples were obtained on 5 Glorieta and 2 Blinebry producers on May 29, 1990. Fresh water presently used to flood the Abo was also tested. The individual well water tests show a natural moderate calcium carbonate scaling in the Glorieta formation.

The water test on Bridges State #113 varied from the other Glorieta well tests on calcium, calcium carbonate, and hydrogen sulfide content. This well is on the edge of the structure where a mild water drive exists - it is probable that there is a mixing of the base water with the connate water that causes the difference.

A water test on Bridges State #27 shows an abnormal high sulfate content. Squeezed perforations in the San Andres and the Glorieta in #27 should be tested for communication.

Since the 164 BWPD presently produced from the 11 wells is far less than the 2000 BWPD needed for a waterflood, produced water cannot be utilized for waterflooding. It is expected that using fresh water for injection will not be detrimental to the Glorieta and Blinebry. Since these formation waters are well below the saturation point for calcium sulfate, any leaching of anhydrite by the fresh water should not be enough to cause widespread scale deposition.

With the exception of Bridges State #58, the wells tested do not show significant free iron to promote iron sulfide deposition. It is recommended to run a coupon test on #58 to locate the source of free iron.

It is recommended to perform preventative scale squeezes at the start of the flood to inhibit any scale deposition in the producers.

D. G. Elwood
5-7-90

Mobil Exploration & Producing U.S. Inc.

JUNE 8, 1990

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

Lovington Daily Leader
14 West Avenue B
Lovington, New Mexico 88260

NOTICE OF APPLICATION FOR
WATER INJECTION WELL
VACUUM FIELD
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico, Inc., has made application to the Oil Conservation Commission of New Mexico for authority to inject fresh water into a reservoir productive of oil or gas through the subject well.

The Oil Conservation Commission requires that a public notice of the attached information be published in the county in which the well is located. Please publish the attached notice as soon as possible and return the completed affidavit and a copy of the printed notice in the enclosed, stamped envelope. Send the invoice to the attention of J. W. Dixon.

Your very truly,

Mobil Exploration & Producing U.S.Inc.
as agent for
Mobil Producing Texas & New Mexico, Inc.

for G. N. Miller
Environmental & Regulatory,
Loss Prevention Supervisor

JWD

attachments

cc: Oil Conservation Commission
w/attachments

B:M15648A.JWD

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 109

   * Location: 1830 FWL; 610 FSL

   * Section: 24 ,T 17S ,R 34E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

   Injection Interval: see below to

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

		BWPD	PSIG
** -Glorieta	5923-6303	800	1200
Blinebry	6303-7300	200	1200
	8000-9272		

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 602

   * Location: 1190 FNL; 1260 FWL

   * Section: 25 (Unit D) ,T 17S ,R 34E

   * County: Lea

** 3. Formation Name: Grayburg-San Andres, Glorieta, Blinebry

   Injection Interval: See below to

   Maximun Injection Rate: See below

   Maximum Pressure: See below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

		BWPD	PSIG
** - Grayburg -San Andres	4444-5923	~~800~~	~~950~~
Glorieta	5923-6303	800	1200
Blinebry	6303-7300	200	1200

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 601

   * Location: 1670 FNL; 2600 FWL

   * Section: 25 (F), T 17S, R 34E

   * County: Lea

3. Formation Name: Grayburg-San Andres, Glorieta, Blinebry

   Injection Interval: Grayburg-San Andres - 4444 - 5923
   Glorieta 5923 to 6303
   Blinebry 6303 7300

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta	800	1200
Blinebry	200	1200
Grayburg-San Andres	800	950

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 119

   * Location: 1830 FWL; 2030 FNL

   * Section: 24 ,T 17S ,R 34E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

   Injection Interval: see below to

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta - 5923-6303	800	1200
Blinebry - 6303-7300	200	1200

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 204

   * Location: 900 FWL; 660 FNL

   * Section: 24, T 17S, R 34E & 35E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

   Injection Interval: see below to _____

   Maximun Injection Rate: _____

   Maximum Pressure: _____

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta - 5923-6303	800	1200
Blinebry - 6303-7300	200	1200

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Judy Dixon, 915/688-2452

   will apply for permission to inject Fresh Water

   into the following well/wells for the purpose of: Secondary Recovery

2. Well Name and Number: Bridges State 116

   * Location: 510 FWL; 1880 FSL

   * Section: 24 ,T 17S ,R 34E

   * County: Lea

3. Formation Name: Blinebry and Glorieta

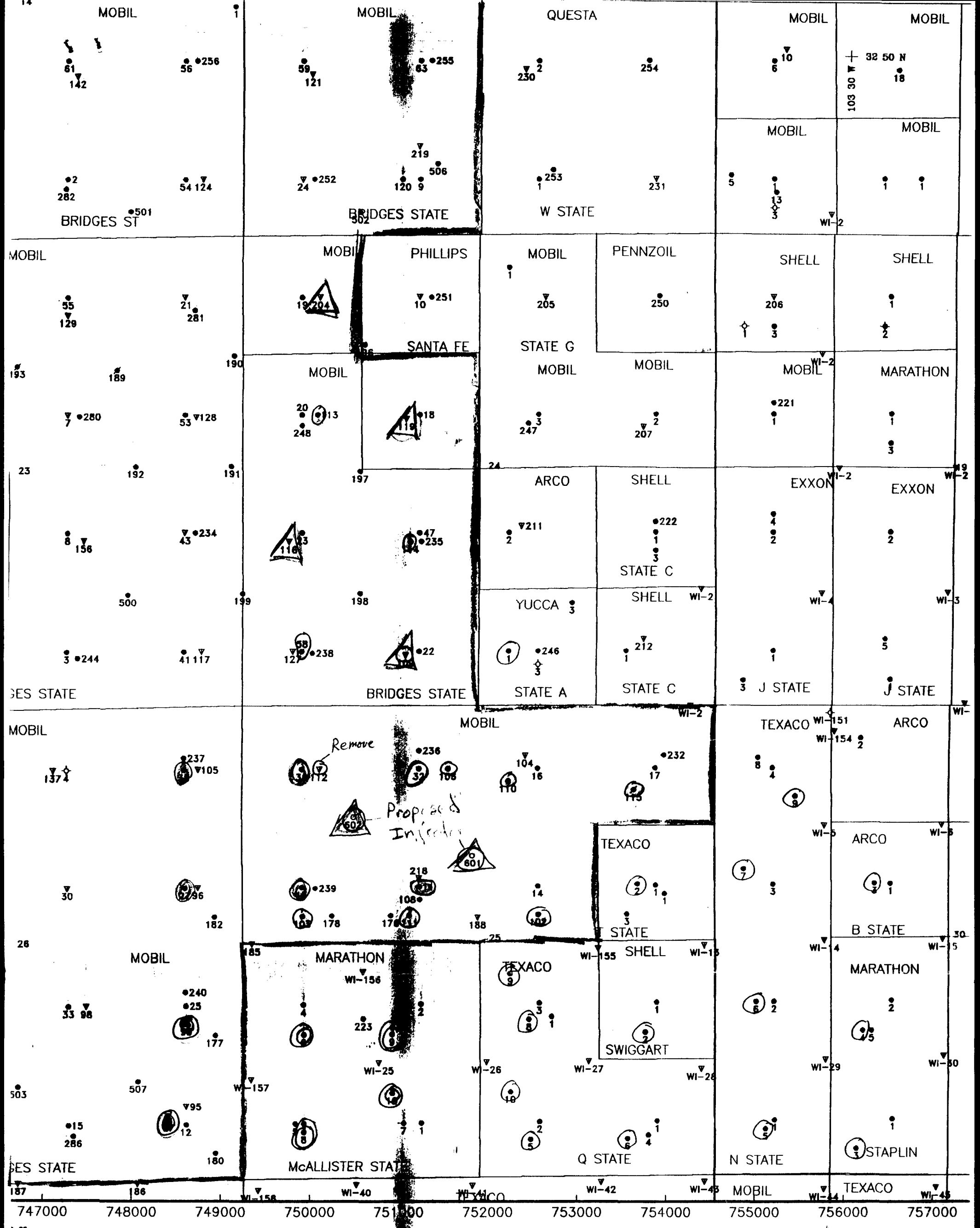
   Injection Interval: see below to

   Maximun Injection Rate: see below

   Maximum Pressure: see below

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

	BWPD	PSIG
Glorieta - 5923-6303	800	1200
Blinebry - 6303-7300	200	1200



Mexico Projection, Zone 3001, Clarke 1866 Spheroid

LEGEND

Producer
Injector
TA
Gas Wells

Glorieta Producer

Blinebry Producer

0 500 1000
FEET

Mobil Exploration & Producing U.S.
Midland Division

VACUUM (GLORIETA/BLINEBRY)

LEA COUNTY, NEW MEXICO

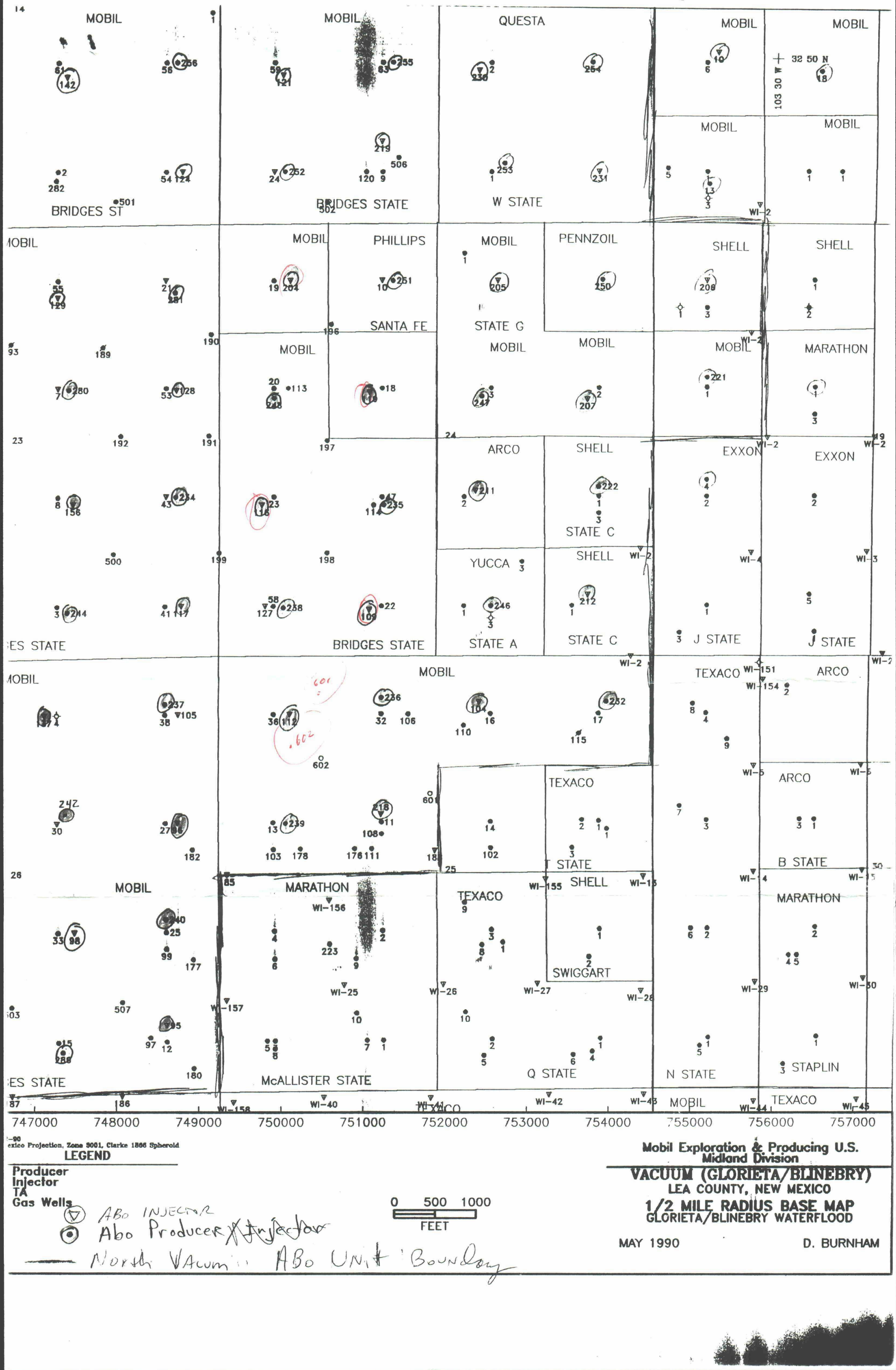
1/2 MILE RADIUS BASE MAP

GLORIETA/BLINEBRY WATERFLOOD

MAY 1990 D. BURNHAM

Bridges State Lease line

Proposed Glorieta/Blinebry Injector



exico Projection, Zone 3001, Clarke 1866 Spheroid

LEGEND

- Producer
- Injector
- TA
- Gas Wells
- ABO INJECTOR
- Abo Producer/Injector
- North Vacuum Abo Unit Boundary

0 500 1000
FEET

Mobil Exploration & Producing U.S.
Midland Division

VACUUM (GLORIETA/BLINEBRY)

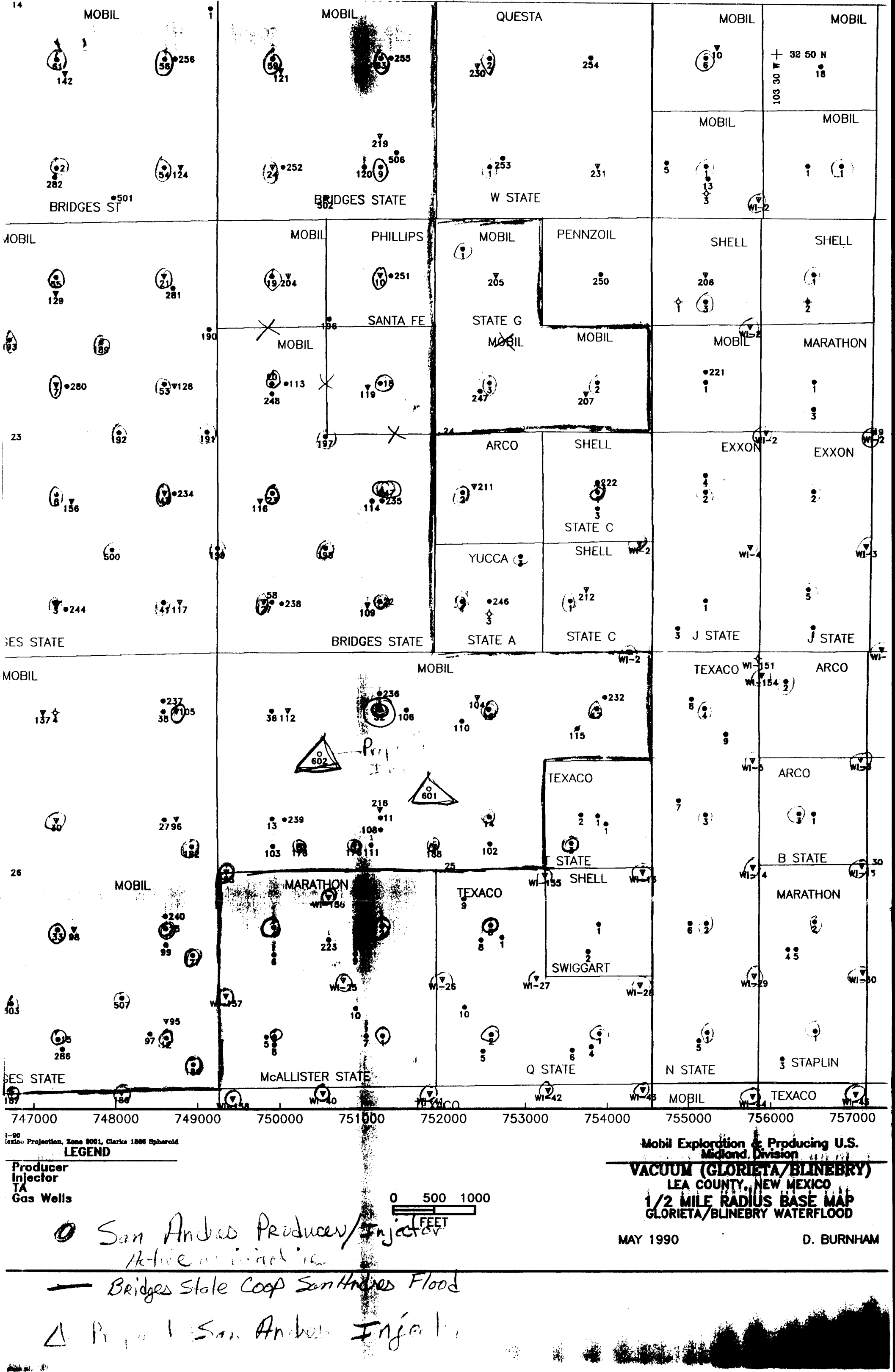
LEA COUNTY, NEW MEXICO

1/2 MILE RADIUS BASE MAP

GLORIETA/BLINEBRY WATERFLOOD

MAY 1990

D. BURNHAM



O San Andres Producer/Injector
Active in Unit

— Bridges State Coop San Andres Flood

△ P & A San Andres Injector