Mobil Exploration & Producing U.S. Inc.

June 15, 1990

P.O. BOX 633 MIDLAND, TEXAS 79702

MIDLAND DIVISION

RECEIVED

JIM 2 0 1990

Case 11000

OIL CONSERVATION DIVISION

LEA COUNTY, NEW MEXICO

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

Dear Ms. Davidson:

State of New Mexico

P.O. Box 2088

Energy and Minerals Department

Oil Conservation Division State Land Office Building

Santa Fe, New Mexico 87501

Attention: Florene 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.

State of New Mexico -2-Bridges State Well Nos. 109, 116, 119, 204 June 15, 1990

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.

G. N. Miller

Environmental, Regulatory and Loss Prevention Supervisor

JWD

Attachments

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

State of New Mexico -2-Bridges State Well Nos. 109, 116, 119, 204 June 15, 1990

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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.

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

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

MINERAL OWNER & SURFACE OWNER

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

WAIVER

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:	

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,

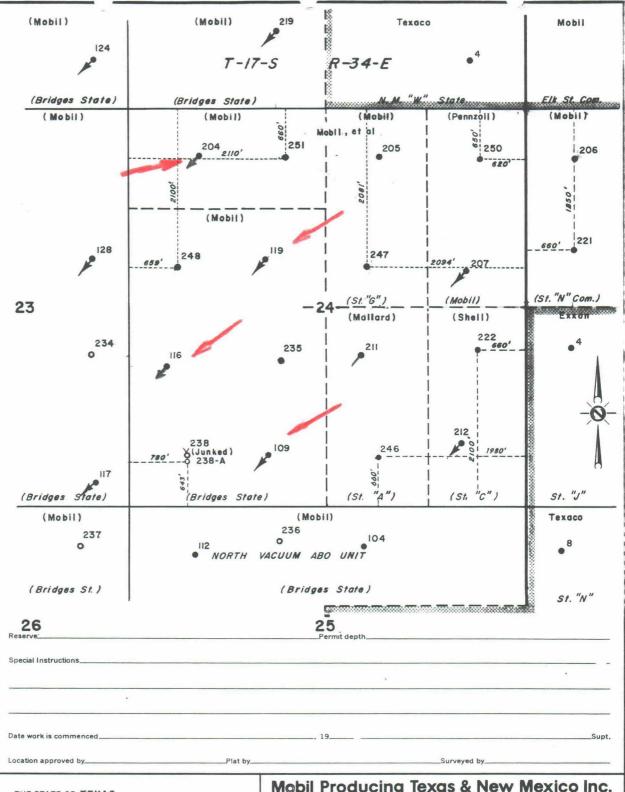
MOBIL EXPLORATION & PRODUCING U.S. INC. AS AGENT FOR MOBIL PRODUCING TEXAS & NEW MEXICO INC.

G. N. Miller

Environmental, Regulatory and Loss

Prevention Supervisor

JWD



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

			1000	Torri, Toxas
LEASE_	North	Vacuum	Abo	Unit
WELL NO	0		DA	TE 19
DIVISION	٧			LEASE NO. NM 558-B
				ACRES COVERED BY PLAT
		Lea (County	, New Mexico
DRAWN_	MLC	DATE_		

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.

OIL CONSERVATION CIVISION

FORM COLOR Revised 7-1-81

POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 8/501

APPLICA	TION FOR AUTHORIZATION TO INJECT Vacuum Grayburg San Andres 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? X yes D no If yes, give the Division order number authorizing the project $R-1244$ dated $9/17/58$.				
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.				
* VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.				
VII.	Attach data on the proposed operation, including:				
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). 				
*VIII.	Attach appropriate geological data on the injection zone including appropriate 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.				
.IIIx	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. Environmental, Regulatory & TitleLoss Prevention Supervisor				
	Signature: (11). (11) Date: 6/15/90				
submi	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance e earlier submittal.				

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
 - See attached schematics
 - Next higher oil-producing zone (both wells)
 Yates: 2886' 3810' (NVAU #109 type log)
 - 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 <u>MARCH</u>	<u>LOCATION</u>
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. SO9	*	Unit H Sec 24 T17S R34E

^{*}Inactive, unable to test

DATE 5-30-90 WELL NO. 601	LEASE Bridges State
FIELD Vacuum Glorieta Blinebry + LOCAT	· · · · · · · · · · · · · · · · · · ·
Grayburg / San Andres	Lea County, NM
SIGNED A G Elwood	GL //A DF KB
PROPOSED DIAGRAM	ZERO
Baker A Grayburg 1 4444-5 (PERFS TO Perm pks Glarieta 5923-6303 (PERFS TO TI Blinebry 6303-7300 (PERFS TO	BE DETERMINED) Terfs O' Aterval O' BE DETERMINED) Set to ± 6400', CMT circ

3878 = 6400'

DATE 5-30-90		
FIELD Vacuum	Glorieta, Blinebry, + LOCATION Unit D Sec 25 TITS R34E	
Graybo	15 / San Andres Lea County, NM	
SIGNED JG	Elward GL NA	
 -	DF	
	PROPOSED DIAGRAM ZERO	
	(TO BE DRILLED)	
	John Set 16 1600', cmt circ (12 1/4" hole) Baker Model A-5 Hydrstatic Duel ph set @ ± 4400' 23/8" J-55 bare thy Grayburg San Andres Perh 4444-5923' interval (PERFS TO BE BETERMINED) Perm ph set @ ± 5900' + 23/8" J-55 bare thy Glorieta Perh 5923-6303' interval (PERFS TO BE BETERMINED) Blinebry Perh 6303-7300' (PERFS TO BE BETERMINED) 7" (sg set to ± 6800', cmt circ (83/4" hole)	

OIL CONSERVATION DIVISION

/ JRM C-108 Revised 7-1-81

POST OFFICE BOX 2018 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 8/501 RECEIVED POLICE 10000

	Trou con Authoritation to Thires. Vacuum Blinebry Field
	TION FOR AUTHORIZATION TO INJECT Vacuum Blinebry Field
Ι.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Official CONSERVATION DIVISION
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
111.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project?
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
* VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geological data on the injection zone including appropriate 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. Environmental, Regulatory & TitleLoss Prevention Supervisor
	Signature: Gu.D. Nelles Date: 6/15/90
submi	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance earlier submittal.

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 <u>MARCH</u>	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

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 8/301 RECEIVED

708M 10-106 Revised 7-1-81

APPLICA	TION FOR AUTHORIZATION TO INJECT Vacuum Glorieta Field JUN 20 1990 Case 10000
I.	Purpose: Secondary Recovery Pressure Maintella CONSERVATION Brusson 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
111.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? \square yes \boxtimes no If yes, give the Division order number authorizing the project
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
* VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geological data on the injection zone including appropriate 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. Environmental, Regulatory & TitleLoss Prevention Supervisor
	C_{12}
imdua	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance e earlier submittal.

OIL CONSERVATION DIVISION ATTACHMENT TO NEW MEXICO FORM C-108

APPLICATION FOR AUTHORIZATION TO INJECT

- 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
 - 1. Vacuum Glorieta Field
 - Injection interval: 5923' 6303' (NVAU #109 type log)
 - 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

- See attached schematics
- Next higher oil-producing zone (all 6 wells) Grayburg: San Andres 4444' - 5923' (NVAU #109 type log)
- 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
 - See attached map
- VT. See attached table and wellbore schematic
- VII. 1. Average daily injection rate: 400 BWPD Maximum daily injection rate: 800 BWPD
 - 2. Closed system
 - Average injection pressure: 1000 psig

Maximum daily injection pressure: 1200 psig

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
 - Logs on file (601 & 602 will be furnished after wells completed) Χ.
 - 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 <u>MARCH</u>	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/2Section 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 8-35 NAW NVAU	WELL NO.	SECTION	LOCATION
Mobil	Bridges State	172	3	P
Mobil	" "	166	10	H
Shell	State "VH"	202 UAVA = 1	10	P
Mobil	Bridges State	130 (a dual	15	H NVA4 130'
		completion)		
Mobil	11 11	144	15- <u>.</u>	P
Mobil	State "J"	9 = MVKU Z08	NVAU 22	H
Shell	Location	to be drilled	Zzo 22	P
Mobil	Bridges State	157	27	H
Mobil	11	145	27	P
Mobil	17	148	11	N
Mobil,	11 11	173	14	F
Mobil	10 10	171	14	N
Mobil	11 11	151 (a dual	23	F
		completion)		-
Mobil	State "KK"	1~~~213	23	N
Mobil	Bridges State	118	26	F NVALLIS'
Mobil	" "	153	26	N
Mobil	. 11	140	11	P
Mobil	11 11	125 (a dual	14	H
MODIL		completion)	~ 3	**
Mobil	11 17	124 (a dual	14	P NVAL 124
110011		completion)	1 3.	T indian
Mobil	n n	128	23	H NVA4128
Mobil	11 11	117 (a dual	23	P NVAU (11/
MODII		completion)	25	F (4.4)(00 (1.1)
Mobil	11 11		26	H NVAU 96
	45 17	96 05 (= 300)		
Mobil	•	95 (a dual	26	P
M-1-27	17 11	completion)	7.0	,
Mobil	17 77	150	12	N
Mobil		147 (a dual completion)	13	F
Mobil	91 IF	120' (a dual	13	λĭ
MODII		completion)	13	N
Mobil	11 11	119 (a triple	24	F NVALLIA
MODII		completion)	24	E jevijec i
Mobil	H 11	109 (a triple	24	n avalua
MODII			24	M Lange
Mahil	n 11	completion) 108 (a triple	25	F
Mobil			25	r
Wahi 7	11	completion)	1 2	77
Mobil		161	12	H
Mobil	er	159	12	P
Mobil	•	169	13	H
Pennzoil	Mobil State	1 134M 207	24	Н

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 shutin 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,

-5-Case No. 4831 Order No. R-4430

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 shutin 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

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 Bridg	es State 601,602	, 109, 116, 119,	and 204
2.	Well No. 601,	602, 109, 116, 11	19, 204	
3.	Well Location: Unit	t,	feet from	line,
		feet from _	line of	Section,
	Том	nship	Cange,	Lea County,
	New	Mexico		
1.	Upper ZoneGlor	ieta		
5.	Completion Interval	(NVAU log) Gl	orieta <u>5</u> 923-6303	
6.	Lower Zone Bl	inebry		
7.	Completion Interval		inebry 6303-7300	
3.	Current Productivit	-		
	aucing Method	W	Vacuum <u>Glorieta</u> (Upper Zone) Proposed Valves Vater injection	(Lower Zone)
	Bbl./day Mcf/day			
GOR	en Ebl/day Limit		800	200
* 9.	Bottom-hole Pressur	e of Lober Zone	400 PSI (Vacu	um Glorieta)
* 	Bottom-nole Pressur	e of Lower Zone	550 PSI (Vacu	um Blinebry
 	Fluid Characteristi Glorieta 36- Blinebry 36-	cs of Each Zone 38° API OIL		

^{*} Estimated by static fluid level

EXHIBIT "B"

CCMPUTATION 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 (PO	OLS SEPARATED)		
Net difference realized	d from downhole com	mingling based on	current well test=
gain.		-	
36MARXXX DESCRIPTION O	F OPERATION:		
Injection in the Vacu	um Glorieta and Vac	uum Blinebry will b	be performed using one
tubing string. The c	ombined injection r	ate will be regulat	ed at the surface.
There will be no down	hole equipment to r	egulate injection p	per zone. See attached
sketch for proposed o	peration.	·	

"春日"

12 2.21.21

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, SLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90

SORTED BY LOCAT API *	OPERATOR	LEASE	WELL	TOWNSHIP				STATUS	
30025020260001		BRIDGES-ST		T017S	R034E	====== S13	4900		19360731
30025020260000	MOBIL	BRIDGES-ST	· · • •	T0175	RO34E	S13	4900	P&A	19290822
30025220520000	MOBIL	BRIDGES-ST	107	T017S	R034E	S13	4750	OIL	19670401
30025239790000	MOBIL	BRIDGES-ST	169	T017S	RO34E	S13	8800	INJ	19720306
30025020190000	MOBIL	BRIDGES-ST	45	T017S	R034E	S13	4673	P&A	19391012
30025292600000	MOBIL	BRIDGES-ST	502	T017S	R034E	513	4800	OIL	19850813
30025295630000	MOBIL	BRIDGES-ST	506	T0175	R034E	S13 S	12505	OIL	19860326
30025297200000	MOBIL	BRIDGES-ST	513	T017S	R034E	\$13 S	11550	OIL	19861202
30025020210000	MOBIL -	BRIDGES-ST	59	T017S	R034E	S13	4670	PLA	19400426
30 02502022000 0	MOBIL	BRIDGES-ST	63	T017S	R034E	S13	4675	INJ	19400524
300 2502023 0000	MOBIL	BRIDGES-ST	69	T017S	R034E	S13	4670	OIL	19400620
30025020240000	MOBIL	BRIDGES-ST	73	T0175	R034E	513	4716	P&A	19400821
30025020250000	MOBIL	BRIDGES-ST	80	10175	R034E	S13	4716	PLA	19551201
30025020170000	MOBIL	BRIDGES-ST	9	T0175	R034E	S13	4682	OIL	19380714
30025020180000	MOBIL	BRIDGES-ST	WI24	T017S	R034E	S13	4700	INJ	19390210
30 025020200000		BRIDGES-ST	WI46	T0175	R034E	S13		INJ	19391116
30025221000000		NVAU	120	T017S	R034E	S13		S OIL	19670711
30 025221 0100 00		NVAU		T017S	R034E	513		INJ	
300 25235580000		NVAU	147	T017S	R034E	513		INJ	
30 025236 930000		NVAU		T0175	RO34E	513		INJ	
300 25237530000		NVAU			R034E	S13		S OIF	19710608
30025246120000		NVAU			R034E	S13	8650		19740207
300 25250980000		NVAU	553	T017S	R034E	513	9750		19750926
300 25287350000		NVAU	252	T017S	R034E	\$13	8700		19840819
30025287360000		NVAU	253	T017S	R034E	513	8700		19840911
300 25287240000		NVAU	254	T017S	R034E	513	9100		19840724
30025287370000		UAVA	255	T017S	R034E	513	8700		19840905
300 252873900 00		NVAU		T017S	34E08	S13	9100		19840813
300 252874 0000 0		NVAU	258	T017S	R034E	S13	8706		19840816
300 25298 210000		NVAU		T017S	R034E	813	8700		19840914
300 2530722000 0		NEW WEXICO		T017S	R034E		4700+-		NONE @ 4/90
30025223440000		NVAU		10178	R034E	S13		5 01F	19680225
30025238640000		NVAU	231	T017S	R034E	\$13			19711012
300 25020270000		STATE W NC	1	T017S	R034E	813	4680		19381228
300 25020280000		STATE N NC	2	T0178	R034E	S13	4700		19400814
30025223860000		BRIDGES-ST	124	T017S	R034E	S14	19565		19680321
30025223870001		BRIDGES-ST	125	T0179	R034E	S14		GAS-WO	19720107
30025234060000		BRIDGES-ST		T0175	R034E	914	12215		19700303
30025235510000		BRIDGES-ST	14	70175	R034E	314	8750		19700903
30025237800000		BRIDGES-ST		T017S	R034E	514	3800		19720229
300 25 240 25 0000		BRIDGES-ST	173	T017S	R034E	514	8750		19720327
300 2524325 0000		BRIDGES-ST		10175	R034E	S14	3750		19720115
300 25 020290000		BRIDGES-ST	2	T017S	R034E	514	4593		19370925
30025020300000		BRIDGES-ST		T017S	R034E	514	4650		19390703
300 25 020310000		BRIDGES-ST	37	T017S	R034E	S14	4642		19390805
30025292590000		BRIDGES-ST		T0175	R034E	514	4800		19850708
30025020330000	MUBIL	BRIDGES-ST	54	T017S	R034E	514	4660	OIL	19400305



ากระบบกับการเลือนสุดที่สาราช การกา

FORM C-108, ITEM VI MOBIL OIL APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS VACUUM FIELD, LEA CO., NM 5/31/90

CONTRACTOR OF THE STATE OF THE

SORTED BY LOCAT	ION, OPERATOR	, LEASE, & WEL	L ORDER						COMPLETION
							TOTAL		DATE
API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	DEPTH	STATUS	(YYYYHHDD)

30025020340000		BRIDGES-ST	56	T0175	R034E	514	4670		19400408
30025020360000		BRIDGES-ST	61	T017S	R034E	S14 -	4674		19400504
30025020370000		BRIDGES-ST	62	T017S	R034E	S14	4700		19400506
30025020380000		BRIDGES-ST	64	T017S	R034E	S14	4664		19400618
30025020390000		BRIDGES-ST	65	T017S	RO34E	S14	4660		19400529
30025020400000	• • •	BRIDGES-ST	66	T017S	RO34E	514	4740		19400627
30025020410000		BRIDGES-ST	67	T017S	R034E	S14	4738		19400719
30025020430000		BRIDGES-ST	70	T017S	R034E	S14	4732		19400725
30025020440000		BRIDGES-ST	71	T017S	R034E	514	4739		19 400729
30025020320000		BRIDGES-ST	WI40	T0175	R034E	514	4725		19390913
30025235410000		NVAU	139	T017S	R034E	514	8750		19700808
30025235660000		NVAU	142	T017S	R034E	514	8700		19700927
30025236460000		NVAU	146	T017S	RO34E	514	8700		19701220
30025239860000		NVAU	171	T0175	R034E	514	8700		19720124
30025020350000		NVAU	175	T017S	R034E	S14	4660		19400509
30025287380000		NVAU	256	T0175	RO34E	514	8700		19840920
30025288300000		NVAU	259	T017S	R034E	S14	8700		19840926
30025290240000		NVAU	275	T017S	R034E	S14	8800		19850115
300 25292 3900 0 0		NVAU	282	T017S	R034E	S14	8800		19850731
30025292400000		NVAU	583	T017S	R034E	514	8800		19851003
3002 5292 410000	-	NVAU	284	T0179	R034E	514	8800		19850909
30025292420000		NVAU	285		₹034E	514	8800		19851029
3002 5296 070 00 0		NVAU	297	T017S	R034E	314	8800		19860527
30025020700000		STATE VA	1	T017S	R034E	523	4740		19380414
30025020710000		STATE VA	5	T0175	R034E	523	4671		19380603
30025020720000		STATE VA	3	70175	R034E	523	4662		19380806
30025222650000		STATE VA	WI6	T0175	R034E	553	4700		19671024
30025020770000		BRIDGES-ST	10	T017S	R034E	923	4676		19380712
30025218280000	-	BRIDGES-ST	117	T017S	R034E	823	10414		19660927
30025229420000		BRIDGES-ST	128	T017S	R034E	523	8580		19690205
30025236580000		BRIDGES-ST	151	T017S	R034E	S23	12180		19710321
30025290100000		BRIDGES-ST	189	T0175	R034E	523	4750		19841217
30025290110000		BRIDGES-ST	190	T0175	R034E	523	4750		19850107
30025290120000		BRIDGES-ST	191	T017S	R034E	523	4800		19841231
300 2529 01 30000		BRIDGES-ST	192	T0175	R034E	923	4761		19850110
300 25291600000		BRIDGES-ST	193	T0175	R034E	S 23	4800		19850422
30025291610000		BRIDGES-ST	174	T017S	R034E	523	4800		19850507
30025291620000		BRIDGES-ST	195	T0178	R034E	S23	4800		19850520
30025291700000		BRIDGES-ST	199	T017S	R034E	S23	4800		19950606
300 2502073 00 01		BRIDGES-ST	3	T017S	R034E	523	4608		19400516
30025020730000		BRIDGES-ST	3	T017S	R034E	S23	4551		19380206
300 2502 0790000		BRIDGES-ST	31	10178	9034E	553	4650		19390526
30025020800000		BRIDGES-ST	41	T017S	R034E	S23	4720		19390913
30025292580000		BRIDGES-ST			R034E	S23	4800		19 8507 08
30025020820000		BRIDGES-ST	53	T0175	R034E	S23	4605		19400227
30025020830000		BRIDGES-ST	55 55		R034E	S23	4625		19400306
300 25020840000	UUBIL	BRIDGES-ST	57	T017S	R034E	S 23	4700	UIL	1940 0408



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

SORTED BY LOCAT API #	ION, OPERATOR OPERATOR	R, LEASE, & WEI	LL ORDER WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
=======================================	=======================================	:22222222222		========		======	******		
30025020740000		Bridges-St	6	T017S	34E0R	523		OBSERV	19380717
30025020760000		BRIDGES-ST	8	T017S	R034E	523	4740		19380608
30025296750000		BRIDGES-ST	WD-511		R034E	S ES2	5650		19860909
30025020780000		BRIDGES-ST	W121	T017S	RO34E	523	4660		19390102
30025020810000	MOBIL	BRIDGES-ST	WI43	T0175	R034E	S 23	4610	INJ	19391014
30025020750000	MOBIL	BRIDGES-ST	W17	T017S	R034E	523	4700	INJ	19380608
3002 523 1000 00 0	MOBIL	NVAU	129	T017S	R034E	S 23	8600	INJ	19690608
30025236950000		UAVN	155	T017S	R034E	523	8700	INJ	19710416
30025234960000	MOBIL -	NVAU	156	T0175	R034E	523	8750	INJ	19710430
30025239820000	MOBIL	NVAU	213	T017S	R034E	S 2 3	8800	INJ	19720114
30025283140000	MOBIL	NVAU	234	T0175	R034E	S 23	8700	OIL	19840214
30025286030000	MOBIL	NVAU	244	T017S	R034E	523	8700	DIL	19840522
300 25 286040000	MOBIL	NVAU	245	T017 S	R034E	S23	8711	GIL	19840613
30 025292350 000	MOBIL	NVAU	278	T0175	R034E	523	8800	DIL	19850826
30025292360000	MOBIL	NVAU	279	T017S	R034E	S23	8792	OIL	19850920
30025292370000	MOBIL	NVAU	280	10175	R034E	523	8800	DIL	19851008
30025292380000	MOBIL	NVAU	281	T017S	R034E	S23	8800	01L	19850708
30025295600000	MOBIL	NVAU	294	T0175	R034E	S23 N	8808	OIL	19860423
30025240440000	MOBIL	NVAU	210	T017S	R034E	S23	8800		19720320
30025206730000	DRILLING	STATE E	3	T0175	R034E	S24	7014		19640611
30025218300000	MOBIL	BRIDGES-ST	113	T017S	R034E	<u>924</u>	6225		19 660925
30025218660000	MOBIL	BRIDGES-ST	114		R034E	S24	6210		19660930
30025218080000		BRIDGES-ST	116	T017S	R034E	\$24	10436		19660822
30025220010000		BRIDGES-ST	119	T017S	R034E	524	12391		19670330
30025020880000		BRIDGES-ST	18	T017S	R034E	S24	4700		19381122
30025020890000	MOBIL	BRIDGES-ST	19	T017S	R034E	S24	4700		19381130
30025291630000	MOBIL	BRIDGES-ST	196	T017S	R034E	S24	4800		19850528
30025291670000	MOBIL	BRIDGES-ST	197	T017S	R034E	924	4800		19 85053 0
30025291690000	MOBIL	BRIDGES-ST	198	T017S	R034E	S24	4800	DIL	19850618
30025020900000	MOBIL	BRIDGES-ST	20	T017S	R034E	S24	4690		19381228
30025020910000	MOBIL	BRIDGES-ST	22	T017S	R034E	524	4700		19390118
30025020920000	MOBIL	BRIDGES-ST	23	T017S	R034E	S24	4700		19390204
30025020930000	MOBIL	BRIDGES-ST		T0175	R034E	S24	4680		19391115
30025020940001		BRIDGES-ST			R034E	\$24	6800		19631188
30025226300000		BRIDGES-ST	WI127		R034E	S24	4850		19680715
30025221050000	=	NVAU			R034E	S24	10360		19470706
30025221050000		NVAU	205	T0178	R034E	S24	10401		19670822
30025227600000		NVAU			R034E	524	8653		19681025
30025227120000		NVAU	211	T017 S	P.034E	524	10133		19691207
30025248510000		NVAU			R034E	524	9660		19750210
30025283150000		NVAU	235		R034E	S24	8675		19840130
30025283150000		NVAU			R(:34 E	S24	5000		19831008
30025284660000		NVAU	238Y		R034E	S24	8700		19831227
30025285870000		NVAU			RO34E	S24	8700		19840503
30025286270000		NVAU		T0175	R034E	S24	8710		17840521
30025286180000		NVAU			RO34E	524	8700		19840612
30025287230000		NVAU			RO34E	S24	9100		19840801



FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90

API #	OPERATOR	R, LEASE, & WE	WELL	TOWNSHIP		SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
0025287340000		NVAU	251	T017S	R034E	S24	8710	OIL	19840814
0025020990000		SANTA FE-S	WI10	T017S	R034E	524	4706		19381107
0025020960000	MOBIL	STATE 6	1	T0175	R034E	524	4905	OIL	19370525
0025020970000	MOBIL	STATE 6	5	T0175	R034E	S24	4750	OIL	19381214
0025020980000	MOBIL	STATE 6	3	T0175	R034E	S24	4726	INJ	19391222
0025216170000	MOBIL	STATE-BRID	109	T017S	R034E	524	12470	INJ	19660502
0025268580000	PHILLIPS	E V(GR-S A	WI-2	T017S	RO34E	524	4800	W-INJ	19820601
0025274190000	PHILLIPS	E VU(6B-S	3	T0175	R034E	524	4800	OIL	19820314
0025273370000	PHILLIPS -	E VU(GB-S	WI-2	T017S	R034E	S24	4800	W-INJ	19820220
0025273310000	PHILLIPS	E VUM(6B-5	3	T017S	RO34E	524	4800	OIL	19920123
0025224000000	SHELL OIL	STATE	2	T0175	R034E	524	10200	OIL	19680327
00025020950000	SHELL OIL	STATE C	i	T0175	R034E	524	4733	OIL-P&A	19390331
0025020850000	SINCLAIR	STATE C-DE	1	T017S	R034E	324	4665	OIL	19390614
0000880302500	SINCLAIR	STATE E-DE	1	T017S	R034E	524	4675		19390724
0025020870000	SINCLAIR	STATE E-DE	2	T017S	R034E	S24	4685	OIL	19391026
0025021070000	MARATHON	MCCALLISTE	1	T017S	R034E	S25	4680	OIL	19380709
0000801502500	MARATHON	MCCALLISTE	2	T017S	R034E	S25	4700	DIL	19380817
00025021090000	MARATHON	MCCALLISTE	3	T017S	R034E	525	4690	OIL	19381223
0000011502500	MARATHON	MCCALLISTE	4	T017S	R034E	S25	4710	J10	19390128
00005200500000	MARATHON	MCCALLISTE	8	T017S	R034E	S25	6800	OIL	19630620
0005201430000	MARATHON	MCCALLISTE	9	T0175	R034E	5 25	6800	OIL	19630714
0005201150000	MARATHON	STATE MCCA	7	T0175	R034E	S25	12125	2 01L	19630910
0025202490000	MARATHON	STATE-MCCA	10	T0178	R034E	S25		5 01F	19631215
0025201160000	MARATHON	STATE-MCCA	5	T017 S	RO34E	S25		3 DIL	19630501
00025202350000		STATE-MCCA	6	T017S	R034E	S2 5		5 OIL	19630605
0025210410000	MOBIL	BRIDGES-ST	102	7017S	RO34E	S25	6200		19641207
0025021000001		BRIDGES-ST	11	T017S	R034E	S25	6800		19630210
0005228500000		BRIDGES-ST	115	T0179	R034E	S25	6242		19690103
0025021010001		BRIDGES-ST	13	T017S	R034E	S25		OIL-WO	19630103
00025021020000		SRIDGES-ST	14	T0175	R034E	S25	4270		19381108
0025021040000		BRIDGES-ST	16	T0175	R034E	S25	4750		19381017
0025021050000		BRIDGES-ST	17	T017S	R034E	S25	4750		19381109
0025245690000		BRIDGES-ST		T017S	R034E	525	4850		19740129
0025245710000		BRIDGES-ST			R034E	S25	4850		19740220
0025021030000		BRIDGES-ST			R034E	525		INJ	
0025021060002		BRIDGES-ST			R034E	S25	6900		19710614
0025284260000		BRIDGES-ST			R034E	S 25	4900		19831221
0025284290000		BRIDGES-ST			R034E	925	4800		19840329
0025246050000		NVAU		T017S	R034E	925	8500		19740123
0025275190000		NVAU			R034E	825	8750		19820103
0025283160000		NVAU		T0175	R034E	925	8700		19831114
0025285850000		NVAU		10179	R034E	5 25	3700		19840503
0025208730000		STATE-BRID		70178	R034E	S25		QIL	
00055213620000		STATE-BRID			R034E	525		3 CIL	19650718
0025213640000		STATE-BRID		T017S	R034E	S25		DIL	
0025216410000		STATE-BRID			R034E	S2 5		3 OIL	19660119
0025216490000		STATE-BRID	110	T0175	R034E	525		OIL	



FORM C-108, ITEM VI MOBIL OIL APPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA, BLINEBRY FORMATIONS VACUUM FIELD, LEA CO., NM 5/31/90

S	ORTED BY LOCAT	ION, OPERATOR	, LEASE, & WELI	L ORDER						COMPLETION	
	457 h	00501700	1 FARE		T8111151115	2440-	A=8	TOTAL		DATE	
=	API #	OPERATOR	LEASE	WELL	TOWNSHIP		SEC	DEPTH	Status	(YYYYMMDD) =========	
	30025216750000		STATE-BRID	111	T0175	R034E	S25	6190		19660402	-
	30025217510000			112	T017S	R034E	525		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	RO34E	S25	4740	OIL-WO	19810620	_
	30025301020000	TEXACO	CENTRAL VA	553	T017S	R034E	S25 N	4730	OIL	19880310	
	30025 25810000 0		CENTRAL VA	WI-13	T017S	R034E	S25		W-INJ	19790130	
	30 0252796 5000 0			WI-155		RO34E	S25	4800	W-INJ	19821230	
	30 0252796 60000		CENTRAL VA	WI-156		R034E	S25		W-INJ	19821118	
	30 0252796 700 00				T017S	R034E	S25		W-INJ	19821124	
	30025258130000		CENTRAL VA		T017S	RO34E	S25		W-INJ	19780425	
	30 0252 58140000			MI-59	T017S	RO34E	S25		N-INJ	19780421	
	300 25 258150000		CENTRAL VA		T017S	R034E	S25		U-INJ	19780317	
	30025258160000			MI-58	T017S	R034E	S25		W-INJ	19780414	
	30025279130000		NEW MEXICO	10	T017S	RO34E	S25	6100		19821024	
	30025272360000		NEW MEXICO	9	T017S	R034E	S25	6150		19810716	
	30025209510000		STATE OF N	2	T017S	R034E	S25	6800		19641024	
	30025202940000		STATE OF N	4	T0175	R034E	S25		3 OIL	19631204	
	30025201720000		STATE OF N	5	T0175	R034E	S25		S OIL	19631023	
	30025209470000		STATE OF N	6		R034E	S25		5 OIL	19640324	
	30025209490000		STATE OF N	3	T0175	RO34E	S25		5 OIL	19640923	
	30025021110000		STATE D	1		₹034E	S25	4725		19380721	
	30 025 021120000 30025021130000		STATE D	5	T0175	R034E	S25 S25	4750		19380629	
	300 25 021130000		STATE D STATE T	3 1	T017S T017S	R034E R034E	525	4725		19380930	
	30025214630000			3		RO34E	S25	4725 4740		19390418 19660405	
	30025209420000		TEXACO-MOB	1	T0175	8034E	S25		3 OIL	19640818	
	30025207480000		TEXAS-SHEL	1		RO34E	S25	10200		19640529	
	300 25 021170000		BRIDGES-ST	12	T0175	RO34E	\$26	4725		19380802	
	30025021180000					RO34E	S26	4763		19380911	
	30025236940000			153	T0175	R034E	526	8700		19710330	
	30025237590000					R034E	S26	4800		19720215	
	30025245700000		BRIDGES-ST	177	T0175	R034E	S26	4850		19740207	
	30025246320000			180		R034E	S26	4850		19740220	
	30025280610000	-	BRIDGES-ST	185	T0175	R034E	526	4871		19830125	
	30025021200000			25		R034E	526	4750		19390226	
	300 2 5021210000		BRIDGES-ST	26 2	T017S	8034E	526	4710		(7390312	
3	100025021220001	MOBIL		27		R034E	S26	7000		19621110	
	800 25 02123000 0	MOBIL	BRIDGES-ST	35	T017S	R034E	926	4740	OIL	19390424	
3	00005021190000	MOBIL	BRIDGES-ST	29	T0175	R034E	326	4725	P&A	19390414	
	30 0250212 40001	MOBIL	BRIDGES-ST	30	T017S	R034E	S 2 6	6800	INJ	19621221	
3	00025(81250000	MOBIL	PRIDSES-ST	35	T0178	9034E	526	4742	[7]	19390713	
3	30025021260000	MOBIL	BRIDGES-ST	38	T017S	R034E	\$ 2 6	4700	OIL	19390817	
3	80025021270000	WOBIL	BRIDGES-ST	39	T0175	R034E	\$26	4725	F&A	19390813	
3	300 25 0211500 0 0	MOBIL	BRIDGES-ST	4	T017S	R034E	826	4758	OIL	19380428	
3	00025021160000	MOBIL	BRIDGES-ST	5	T0175	R034E	S26	4750		19380502	
3	30025292420000	MOBIL	BRIDGES-ST	503	T017S	R034E	526	4800	OIL	19850828	



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 1 HELL ORDER

SORTED BY LOCAT	, LEASE, & WE		COMPLET						
API #	OPERATOR	LEASE		TOWNSHIP		SEC	TOTAL Depth		DATE (Yyyy mhdd)
30025292630000		BRIDGES-ST	504	 T017S	======= R034E	526	4B00		19850818
30025296310000	MOBIL	BRIDGES-ST		T017S	R034E	S26 S			19870501
30025021280000	MOBIL	BRIDGES-ST	95	T017S	R034E	526		3 OIL	19621219
30025200800000	MOBIL	BRIDGES-ST	96	T017S	R034E	526		3 OIL	19630322
30025200680000	MOBIL	BRIDGES-ST	97	T017S	R034E	526	~~	OIL	19630120
30025203200000	HOBIL	BRIDGES-ST	98	T017S	R034E	526		S OIL	19631215
30025201480000	MOBIL	BRIDGES-ST	99	T017S	R034E	S26		5 DIF	19630912
30025284280000	MOBIL	BRIDGES-ST	WI-187		R034E	526	4800		19840330
30025233940000	MOBIL		WI132		R034E	S26		INJ	19700204
30025235260000		NVAU	118	T017S	R034E	526		INJ	19700715
30025234620000		NVAU	136	T0175	R034E	526		INJ	19700522
30025235270000		NVAU	137	T017S	R034E	526		INJ	19700722
30025235400000	MOBIL	NVAU	138	T017S	R034E	526		INJ	19700807
30025283170000	MOBIL	NVAU	237	T0175	R034E	526	8700		19831229
30025286000000	MOBIL	NVAU	240	T017S	R034E	S26	8700		19840530
30025286010000	MOBIL	NVAU	241	T0175	R034E	S26	8700		19840704
30025386020000	MOBIL	NVAU	242	T017S	R034E	S26	8750		19840808
30025286020000	MOBIL	NVAU	242	T017S	R034E	S26	8700		19840808
30025285860000	MOBIL	NVAU	243	T017S	R034E	S26	8700		19840511
30025287220000	MOBIL	NVAU	249	T017S	R034E	526	8720		19840828
30025294300000	MOBIL	NVAU	286		R034E	S26	8700		19851224
30025294310000		NVAU	287		R034E	S26	8800		19851231
30025213430000		STATE-BRID		T017S	R034E	526		INJ	19650422
30025127040000		STATE-BRID	33	T017S	R034E	S26	4735		19390607
30025028310000		STATE B	1	T0175	R035E	517		D&A-	19490323
30025028340000		SHELL-STAT	2	T0175	R035E	S19	4816		19590708
30025028270000		CITIES SER	5	T0175	R035E	S19	4756		19560311
30025238780000		MEXICO-STA	4	T0175	R035E	519	8739		19711022
300 25207080000	HUMBLE OI	NEW MEXICO	3	70178	R035E	S19	6280		19640911
30025240130000	HUMBLE OI	NEW MEXICO			R035E	519	8740		19720225
30025028280000	HUMBLE OI	STATE J	t		R035E	519	4725		19381014
30025028290000	HUMBLE DI	STATE J			R035E	S19	4765		19390201
30025028240000	JOSALINE	STATE C	1	T017S	R035E	519	4705		19491013
30025028250000	JOSALINE	STATE C	2		R035E	319	4586		19500521
30025028300000	MARATHON	STAPLIN-ST	1	T017S	R035E	S19	4700		19390814
30025237940000	MOBIL	NVAU	206		R035E	S19	8800		19710625
300 25248500000	MOBIL	UAVK	221	T0173	R035E	919	8720		19750115
30025028330000	MOBIL	STATE N	1	T017S	R035E	S19	4780		19381109
30025274210000	PHILLIPS	E V(GR-S A	1		R035E	519	4800		19820831
30 025274230000	PHILLIPS	E V(GR-S A			R035E	S19	4800		19820821
30025271130000		E V(GR-S A	5		R035E	519	4800		19820409
30025258570000		E VIGR-S A			R035E	319		W-INJ	17801229
30025271140000		E VIGR-S A			RO35E	S19		W-INJ	19811024
30025273300000		E V(GR-S A			R035E	519		W-INJ	19820917
30025273380000		E VCM(GBGS			R035E	519		W-INJ	19320908
30025273390000		E VCM(GBSA			R035E	S19		W-INJ	19820812
30025273400000	PHILLIPS	E VCU(68-S			R035E	519		W-INJ	19811020

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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. 1 HELL ORDER

ORTED BY LOCAT	R, LEASE, & WE	COMPLETION							
API #	OPERATOR	LEASE	WELL	TOWNSHIP		SEC	TOTAL DEPTH	STATUS	DATE (Yyyymndd)
30025265680000		E VM 686 S	3	T017S	R035E	S17	4900		19800507
30025273410000	PHILLIPS	E VM(GBG-S	MI-5	T017S	R035E	S19	4800	W-INJ	19820313
30025274220000	PHILLIPS	E VU(GB-S	3	T0175	R035E	S19	4800	OIL	19820528
30025273290000	PHILLIPS	E VU(68-S	WI-4	T017S	R035E	519	4805	W-INJ	19811003
30025274200000	PHILLIPS	EAST VACUU	3	T017S	R035E	S19	4800	OIL	19820328
10025240800000	PHILLIPS	SANTA FE	122	T017S	R035E	519	9000	OIL	19720519
30025028320000	PHILLIPS	SANTA FE	56	T017S	R035E	519	4880		19600829
10025240510000	SHELL OIL	STATE /K/	3	T017S	R035E	S19	89 00	OIL	19720410
80025240450000	SHELL OIL	STATE /VB/	1	T017S	R035E	S19	8975	OIL	19720318
00025028230000	SHELL OIL	STATE K	1	T017S	R035E	519	4686	DIL	19490216
10025240280000	SHELL DIL	STATE K	1	T0175	R035E	S19	8900		19720221
00025028260000	SINCLAIR	STATE J DE	1	T017S	R035E	S19	4700	OIL	19400522
00025029390000	JOSALINE	STATE E	1	T0173	RO35E	530	4666	OIL	19500111
0025029410000	HARATHON	STAPLIN-ST	i	T0175	R035E	530	4702	OIL	19380417
00025029420000	MARATHON	STAPLIN-ST	2	T017S	R035E	530	4710	OIL	19390320
0025219070000	HARATHON	STAPLIN-ST	5	T017S	R035E	S30	4750	OIL	19670101
10025210090000	MARATHON	STATE-STAP	3	T017S	R035E	530	6150	OIL	19640605
0025207460000	MARATHON	STATE-STAP	4	T017S	R035E	530	6150	OIL	19640702
0025256740000	PENROC OI	STATE /AR/	1	T017S	R035E	530	8800	OIL	19780110
00025238010000	PHILLIPS	SANTA FE	120	T017S	R035E	530	4750	DIL	19710722
10025085450000	PHILLIPS	SANTA FE	2	T017S	R035E	530	4685	GIL	19380601
0025029430000	PHILLIPS	SANTA FE	25	T017S	₹035E	530	4567	OIL	19390225
80025207940000	PHILLIPS	SANTA FE-S	100	T017S	R035E	530	6200	OIL	19640826
30025207950000	PHILLIPS	SANTA FE-S	101	T017S	R035E	530	6200	GIL	19640907
30025029440000	SHELL DIL	STATE B	1	T017S	R035E	\$30	4700	OIL	19 39 1010
10025085300000	SHELL OIL	STATE B	2	T017S	R035E	530	4735	OIL	19381209
30025208210000	SHELL OIL	STATE B	3	T017S	R035E	S30	7100	OIL	19640401
30025208220000	SHELL OIL	STATE B	4	T0175	80 35E	S30	6200	OIL	19640908
300 25 208270000	SHELL DIL	STATE I	3	T0178	R035E	S30	6300	D&A	19640519
0025213530000		STATE	5	10175	R035E	530	6250		19651001
30025213520000		STATE	3	T017S	R035E	S30		2 OIL	19650528
0025027510000		STATE B-15	1	T017S	R035E	530	4728		19390102
10025029520000				T017S	RO35E	530		OIL	19400504
0025029400000		STATE L DE	1	T0175	R035E	530	4605		19400818
0025258170000		CENT VACUU	wI-300		R035E	530		W-INJ	19780505
0025219070001		CENTRAL VA	19		R035E	530		01L-#0	19830415
30025085450001		CENTRAL VA	33	7)178	R035E	830		01L-w0	: 9830653
0025290340000		CENTRAL VA	9	T017S	R035E	530	4710		19850807
00025258110000		CENTRAL VA	WI-14		R035E	530		W-INJ	19780511
0025267920000		CENTRAL VA	#I-148		R035E	530		W-INJ	19801208
0025267930000		CENTRAL VA	WI-149		R035E	530		W-INJ	19801211
0025258120000		CENTRAL VA	#I-15		R035E	330		W-INI	197804 2 9
30025267940000		CENTRAL VA	WI-150		R035E	530		W-INJ	19801224
0025267950000		CENTRAL VC	WI-151		R035E	530	1918		19801224
30025272350000		CENTRAL VA	WI-154		RO35E	530		W-INJ	19810408
10025257930000		CENTRAL VA	WI-16		RO35E	530		W-INJ	19780510
30025257940000	1EXALU	CENTRAL VA	WI-29	10175	R035E	930	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 LOCAT!	ION, OPERATOR OPERATOR	, LEASE, & WEL LEASE	L ORDER WELL	TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMOD)	
30025257950000		CENTRAL VA	wi-31	 T017S	R035E	530	::::::::::::::::::::::::::::::::::::::	:====== W-INJ	19780314	==== =
30025258080000		CENTRAL VA	WI-51	T0175	RO35E	530		H-INJ	19790306	
30025258090000	TEXACO	CENTRAL VA	WI-6	T017S	R035E	S30	4830	W-INJ	19790308	
30025257920000	TEXACO	CENTRAL VA	¥I-7	T017S	R035E	S30	4800	W-INJ	19790105	
30025029490000	TEXACO	STATE CG	1	T017S	R035E	530	4700	OIL	19590302	
30025029450000	TEXACO	STATE N	1	T0175	R035E	S30	4850	OIL	19381020	
30025029460000	TEXACO	STATE N	2	T017S	R035E	530	4720	OIL	19381121	
30025029470000	TEXACO	STATE N	3	T017S	R035E	S30	4750	DIL	19390522	
30025029480000	TEXACO -	STATE N	4	T0175	R035E	S30	47 5 0	01L	19390731	
30025238540000	TEXACO	STATE N	9	T0175	R035E	230	6250	DIL	19711014	
30025209580000	TEXACO	STATE OF N	5	T017S	R035E	S30	6250	01L	19640624	
30025209410000	TEXACO	STATE OF N	5	T017S	R035E	S30	6863	OIL	19640414	
30025209420000	TEXACO	STATE OF N	6	T017S	R035E	530	10300	3 0IL	19640713	
30025209430000	TEXACO	STATE OF N	7	T017S	R035E	S30	6850	OIL	19640607	
30025209440000	TEXACO	STATE OF N	8	T017S	RO35E	S30	10300	DIL	19641121	
30025029500000	TWIN DIL	STATE D	1	T017S	R035E	S30	4700	OIL	19390427	



P&A*D WELLS WITHIN 1/2 MILE

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

PRESENT

10 sles surface ent plus, 0-20' 103/4" 40 16/ft css set to 825' w/225 sks, enticire [Contretainu e 940' squeeze holes @ 1000, circ w/250sks + lo sks on retainer TOC @ 2664' (calc) Contretainer set @ 3988' Squeezed OH w/2005ks + 65ks on retainer Retrievable per left in hole, 7" 24 " If csg set to 4200' W/ 210 sks 4170' or San Andres Perk OH 4200-4748

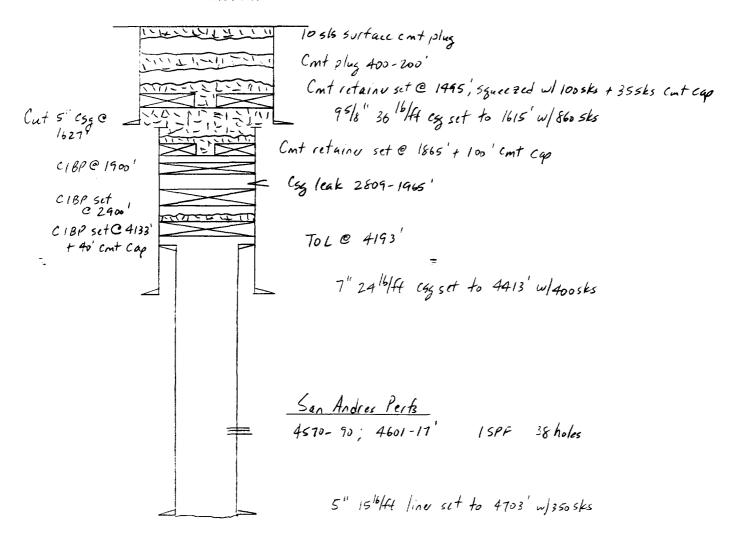
Mobil P& A'd: 2-3-78

TA: 4153 PBTD: 4748

deeper

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

PRESENT



TD: 4706' PBTD: 4701' Mobil P&A'd. 3-6-89

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MOBIL PRODUCING TEXAS & NEW MEXICO

Bridges State # 11

1950' FNL & 1978.5' FWL

Unit F Sec 25 TITS R34E Lea County, NM

PRESENT

103/4" 32.75 16/ft cg set to 820' w/ 2105/ss Spot 125445 Cmt play 1013-700' 42" 105 14 7" csy shot @ 1013' (unable to get thy thru) K-65 csg set to 1005' N/225 sks TOL @ 7" 24 16/ft cog set to 4150' w/2105ks CIBP set @ 6350' + losks cap Blineby Perts 6412-6563 20 holes Spot 40 sks cont plus 6570-6350 4 1/2" 9,5 10/ft csg set to 6800 w/ 415 sks circ

> TD: 6500 PBTD: 6770'

Mobil P&A'd: 1-17-75

Texaco Ce-entuca: E-2-18

(completed as monitor well whelvet gauge
yet no perk - completion requested by DCD)

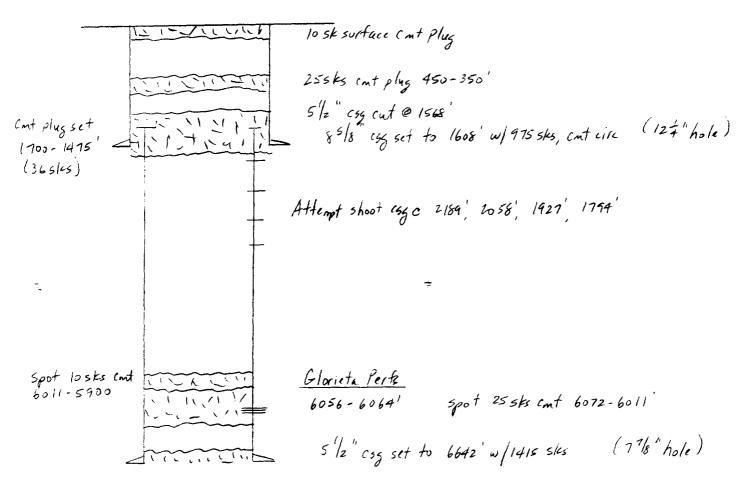
MOBIL PRODUCING TEXAS & NEW MEXICO

Bridges State #115

900' FNL & 990' FEL

Unit A Sec 25 TI15 R34E

PRESENT



TD: 6242' PBTD: 6195'

P\$A'd: 2-19-80

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

PRESENT

loses surface plus 103/4" cg set to 821' w/225 sts, containe (121/4" hole) Squeeze holes 0 1000'+ retainer c 940', circ w/ 3305ks + cmt cap Cmt plus (10sks) spot 2800-2700' Calc TOC @ 2937' Cut retainer set @ 4180, Squeezed OH w/ 1405ks + 55k cap 5/2" csg set to 4365' w/225 sks (77/8" hole) San Andres Perts OH 4365- 4740' Perm pkr left in OH section

> TD: 4740' PBTD: 4696'

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

Mobil PRODUCING TEXAS & NEW MEXICO Bridges State # 73. Unit G Sec 13 T175 R34E

PRESENT

10 3/4" csy set to 827' w/250 sts

Squeeze holes c 1000', contrete 930', circ N/3355ks + 55ks cap

Cmt plus (15 sks) 2825-2680'

Calc Toce ± 3100'

Controtainer set @ 4183', squeezed OHW/1405\$\$ + 56k cap
5 1/2" csq set to 4343' w/210 sts

San Andres Perts

OH 4393- 4763'

Mobil PZA'd: 2-22-78

TD: 4763' PBTD: 4732'

> DGE 6-4-90

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

PRESENT 10 sk surface cont plus ent retainer @ 85/8" csg set to 1689' w/ 850 sks, cont circ (124" hole) 1680 + 1005K Cont plus 1680 - 1362 505k cnt plug 3100 - 2870' Toc by temp survey a 3000', cut 45 " (55 a 3000' San Andres Perts 4822, 24, 26,27 50 St cont plus 4952 - 4350 4 1/2" css set to 4952' w/350 sks (7 1/8"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)

TEXACO State N#9 950' FNL & 913' FUL Unit D Sec 30 TITS R3SE

PRESENT

21/1/1/11 35 sks Surface plug

85/8" 29/6/ft csg set to 1650', cmt w/ 700 sks, cmt cire
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' 25PF

41/2" csg set to 6250', cnt w/ 1/00 sks

TD: 6250'

P\$A'd: 8-27-74

P&A'D W	ELL WITHI	ONE-HALF	MILE			PLA
FIELD Vacuum (G. S.A)	OPERATO	Malal	Oil Co	FO:	ATE 6	24-76
LEASE Bridges State		WELL NO L	OCATION	. 5	13 714	S RALE
						3, 1135
•	•					•
Set-PA-M	Nather .					•
77/ 10 21.11.4/11 - Spot-10-5x-	Cement .	to Surf			•	
						•
					,	
FI K1	•		•		•	•
		•		•	•	
	•					
						•
103/4" casing	set at	829 ' w	ith 25	o sx	of	cement
Hole size 12/4						ot circ (Calc
9pot 50 3x	Cement	- 600! - 9	30' ·			
Shat 7" Cas	ing_at	888.				
Attempt shoot 1" csy @	1198					•
						•
		. ما			• .	
[] Cement_Top	2737	Calc	=.=_			• •
- (4 - 14		*				
		•				·
14 3		·•				•
	•	· · · ·				•
Spot 2 bbl. Ca				•		
Set Cement Ret.			_			
Hole size 83/4		345 ' W	ith <u>23</u>	86 sx	of	cement
						•
San Andres Per	<u>fs.</u>					
0H 4345-4670	o'					
39zd. OH 43	45 -4676	. ω/ 200 d	Sv. Camani	-		
} . : . ; /		, , 200_0	A CEIRE	14		•
}						
\- \ \ /				·		
				Mobil	PAA'd: 2-2	r-13
Total Depth 467	<u>o</u> _					

1-21-89 WELL NO. 232 LEASE North Vacuum Abo Unit FIELD VACKER Abo North LOCATION A 15-17-14 519 FALTS60' FEL Lea County New Mexico SIGNED D. G. Elwood PROPOSED WELLBORE DIAGRAM 5 surface cmt plug (losks) - 20° 52.73 "Iff csg set to 40" Wellbore circ w/ gelled brine 100' cmt plug 365-465' _ 13 1/8" 48 "H K-55 set to 415" w/400 sks, cmt circ of collapse at 2178. Top of 21/8" at 2177! -TOL (51/2°) C 4770' 85/8" 2#-30 16/ft 5-80 (55 set to 5000' W/24005ks, d. circ ent to surface. 21/5° prod they + Huck TAC (c 8310') + 12 jt 27/8" they + 15

not circ. (TOCC 430'). Squeezed bradenhead w/ 500 s

Abo Perto

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

5/2" 15.5-17 16/ft K-55 cas set to 8750 w/soosks, cmt

TA: 8750' 18 TA: 8705

TO C C 1976

5905Ks cont

2100'-8705

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

TEXACO New Mexico W State NCT-1 #1
660'FSL \$ 1980' FEL
Unit O Sec 13 T175 R34E

Same and a growing and

PRESENT

losk (90') surface cut plus

75/8" 26.4 1/14 cz set to 1655' w/ 3005ks 255ks cmt pluz set 1900 - 1675'

25 sks cont plus set @ 3000 - 2775'

52" 17 16/ft set to 4348' w/ 2005ks

San Andres OH 4348-4650'

P\$A'd: 6-11-86

TD: 4680'

25sk cmt plug set @ 4347'-4122'

TEXACO New Mexico State W NCT-1#2 1980' FSL & 1980' FEL Unit J Sec 13 T175 R34E

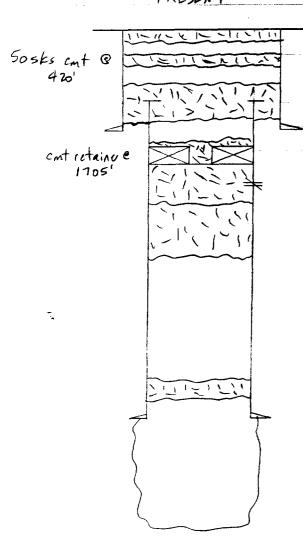
PRESENT 10 sks surface emt plus 85/8" 28 16/ft set to 1687' W/3005ks Squeeze holes @ 1710', squeezed w/ 500sks, cn+circ (waterflow repair) 255ks cm+ plus 1921-1721 255ks cmt play 3002 - 2802' Queen Perts = 3907-3912 15PF Squeezed w/ 150 sts cont CIBP set @ 4300' + 30' cmt cap 5/2" csq set to 4329' w/ 200 sks <u>San Andres</u> OH 4329-4700'

TO: 4700'

P\$A'd: 8-15-88

SHELL State C#1 1980' FSL \$ 660' FEL I Sec 24 TITS R34E

PRESENT



50 sk surface plug

Cont plug (60 sks) 1020 - 775'

5'12" csg cut @ 960'

85/8" csg set to 1693', cont w/ 600 sks

Squeeze holes @ 1805', Squeezed w/ 1305ks cmt 500 sk cmt plug 2964-1820'

15 sk cmt plug @ 4200' 51/2" 1416/ft csg set to 4350', cmt w/2755ks

San Andres OH 4585-4690'

Td: 4733'

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

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

FIELD Vacuum Abo North LOCATION Jts-1115-R34E

Lea County, New Mexico

GL 4061'
DF 4060'
KB 4041'
ZERO WB (14'464)

PRESENT WELLBORE DIAGRAM

Set CIBP (2 10) 10 1 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2			PRESENT	WELLBORE DIAGRAM	
Toc (16" \$ 1034") @ 3430', calculated 103/4" 40.5, 50 b/ft J-55 csg set to 4800' w/550 sks 103/4" 40.5, 50 b/ft J-55 csg set to 4800' w/550 sks 21/13/12" Baker FA perm ptr @ 8430', junked no mandrel 23/12" Baker FA perm Abo Perts (string 1) 8528-30, 46=49, 52-54, 54-62, 66-79, 95-87' 8126-28, 31-33, 78-81' mixed 1, 2 JSPF Set CIBP @ 10, 106' + 20' cmt (string 1) C 10, 100' + 35' cmt in Set CIBP @ 10, 106' + 20' cmt (string 1) Perfed string 1 10, 185-190 191-210'. Perfed string 2 10, 185-189', Comm both strings 3/12" 9.3, 9.4 b/ft csg set to 10,269' TD: 10,299'		STRING 2	STRINGI		
Set-CIBP Set-CIBP Set-CIBP C 8681' + 350'cmtin Set-CIBP Set CIBP Set CIBP C 10,100' + 35'cmt in String 2 Set-CIBP Set CIBP © 10,106' + 20'cmt (string 1) Perfed string 1 10,185-190 191-210'. Perfed string 2 10,185-189', Comm both strings String 2 31/2" 9.3 9.4 blft csq set to 10,269' TD: 10,299'	(1/2)				
Set-CIBP (String 1) Set-CIBP (String 1) Set-CIBP (String 1) Set-CIBP (String 1) Set-CIBP (String 2) Set-CIBP (String 1) Set-CIBP	33		1 ドヤー	•	4800' w/550 sks
8528-30, 46=49, 52-54, 54-62, 66-79, 95-87 8528-30, 46=49, 52-54, 54-62, 66-79, 95-87 8126-28, 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 string 2 3/2" 9.3 9.4 b/ft csq set to 10,269' TD: 10,299'	(-', ')		, - 		
8328-30, 46-49, 52-54, 54-62, 66-79, 85-87 850'cmtin // Set CIBP @ 10, 106' + 20'cmt (string 1) C 10, 100' + - 1 35'cmt in String 2 10, 185-189', Comm both strings String 2 3'12" 9.3 9.4 b/ft csq set to 10, 269' TD: 10, 299'	<a+clap \\\11<="" th=""><th></th><th>1 A Att phre</th><th></th><th>,</th></a+clap>		1 A Att phre		,
Set CIBP (1) Set CIBP (2) 10, 106' + 20' cmt (string 1) Perfed string 1 10, 185-190 197-210'. Perfed string 2 10, 185-189', Comm both strings String 2 3 2 9.3 9.4 b ft csq set to 10, 299'	· · · · · · · · · · · · · · · · · · ·		.\\ \tau_1\\\		
Set CIBP @ 10, 106' + 20' cmt (string 1) C 10, 100' + - 1 35' cmt in string 2 1, 1, 185 - 189', Comm both strings 3/2" 9.3, 9.4 b/ft csq set to 10, 269' TD: 10, 299'		-	. ト. た. ハ	8726-28, 31-33, 78-81 mixed 1,:	Z JSPF
Perfed string 1 10, 185 - 190 197-210'. Perfed string 2 35'cnt in string 2 31/2" 9.3 9.4 1/4 csc set to 10,269' TO: 10,299'	- -				
35' cmt in 10, 185 - 189', Comm both strings string 2 -1, 31/2" 9.3 9.4 16/ft csq set to 10,269' TO: 10,299'		7	(com	- Set CIBP @ 10, 106' + 20' cmt (string 1)	_
3/12" 9.3 9.4 b/ft est set to 10,269' TO: 10,299'				Perfed string 1 10,185-190 197-210.	erfed string 2
3/2 9.3 9.4 1ft csq set to 10,269' 70: 10,299'		1	' 	10, 185-184', Comm both strings	•
				_ 3/12" 9.3, 9.4 " Ift esy set to 10,269"	TO: 10,299' PBTO: 10,086'
Set CIBP - 1 20000000000000000000000000000000000		~ ·	. / . / //		
10,400' + /// M:111 Pa Part (dis a) 74'/ 1965		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Milli Pa Part (di a)	TA'1. 19c-
35' cmt in - 1 Middle Penn Perts (string 2) TA'd: 1985 string 2		,		•	//\d,\/\&\
10,472-88' 2JSPF 32 holes		' :		10,472-88' 2JSPF 32 holes	
		,	1, _/		
	(-),		~ \ /		
31/2" 9.3, 9.4 16/ft csa set to 10,582' TD: 10,582'	1		(/ / / /	3/2" 93 94 16/ft carest to 10.582"	7D: 10.582
Both 31/2" strings cmt w/2125 sks PBTD: 8337'				Both 31/2" string out w/217544	

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

Bridges State # 189

10 sks surface Cmt plug

BRADENHEAD SQZ 1

P&A' 1-89

BRADENHEAD SQZ W 400 SX CL. C + 2% Callz

25 sts cont plug 498 - 202'

357'. 85/8" 24 * K-55 ST+C CSG W/ 250 SX CL. C + 22 Cac/2 + 1/4 * FLOCELE/SX (CMT CIRC.)

585' BOTTOM OF CAT (TEMP SURVEY)

TOC 1030' (TEMP SURVEY)

,30 sks cmt plus 2215-1948'

- wellbore circ w/ FW + NL Coat 1270 pkr fluid

Cy leak loc 2051 - 2066'
CIBP Set @ 3542' + 64x5 cm+ cap

Squeete holes @ 4140, Squeezed w/ 50 sts

51/2 Elder Hydro Set

4398

-CIBP set @ ±- + + cm+ DE 12-30-86

. Tight spot in 15% c 4406-091 GRAYBURG - SAN ANDRES PERFS

4542 - 4546 155PF 5 HOLES

4572-4590 135

1 JSPF 19 HOLES

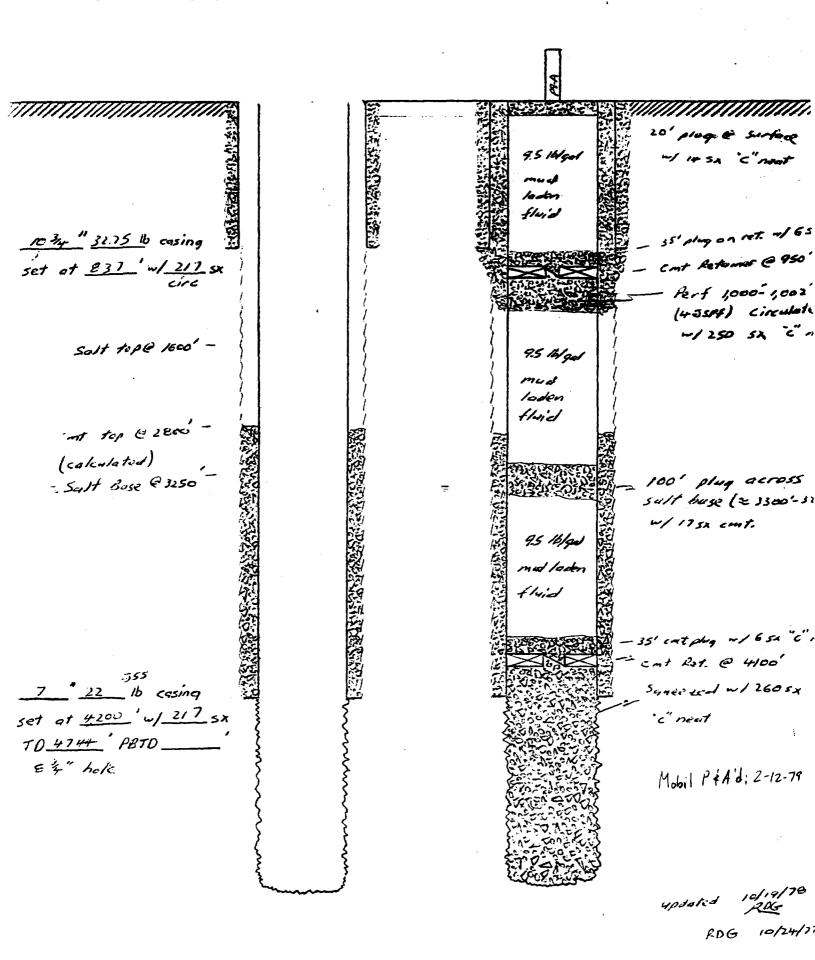
4741 PBTD

4750' 5/2" 14" K-55 ST+C CSG W/ 2200 SX CL. C CAT

TD-4750'

Mobil P\$A'd: 1-21-89

Field: - Vacaum Col San Andre	Date 10/19	178	T/A Date 7	/16	\mathbf{L}
Leose: Bridge Stade			te Lea, New	MEXICO	
Lecution : L-5 26-7175-1348			Elev. 4039	KA ENU 105'	T



		PA
FIELD,	OPERATOR Mobil Oil	DATE
FIELD Vacuum Grbg San Andres	Mobil Oil	5-24-76
Bridges State	INELL NOILLEANS	ON - 14 - 175 - 34 E

77		10 sx plug	-
			•
	, Mud	· ·	
		50 sx Dlug at 836'	
		103/4 " casing set at 336 ' with 250 sx of	cement
	2.7	Hole size /2-1/4 "	_
	Much	50 sx plug	
	4.50	- 1,160' Cut and pull 5/2" asg	
	1 1		
	Mud		
		2,985 Casing may be parted	
÷	,	2750 Calculated Cmi 7sp	
		4,339' EZ Drill BP	
•		4,555 EZ DF/III EF	
		51/2 " casing set at 4375 with 210 sx of	cement
	F	Hole size"	
	} [٠
	}		
	}		
	}	Mobil P\$A'd. 5-1-71	
	} {		~
	}		
	{		
	}		
		Total Depth 4772	
		,	

1EW

			Pha
FIELD OPERATOR	1 Oil Corp	DATE	5. 24-76
LEASE Bridges. State 70	No LOCATION		
· · · · · · · · · · · · · · · · · · ·			
Set P&A-Marker			·
Spot 10 Sx Cement To Surf.			•
			•
50 5x Cement - 757'- 88			
Hole size 12/4"	' with _250		cement
noie size 1274		Came	nt cire
(·		•
shot casing at 1160'			
Spot 35 9x Cement - 1093	'- 1215'		
1 1			•
Cement Top. 2480' (C	alc)		
	,		
H B	•		
	·		
	•		
Spot 2 bbl. Cement on Re	et.		
Cement Detainer - 4300'			
5/2 " casing set at 4371 Hole size 73/2 "	' with	sx of	cement
note size			•
 			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Sqzd. OH 4371-4740 W/	200 Sx Cen	nent	
			•
\(\forall \cdot \c	Mobil PAA	1. 2.2.71	
	170611 17/1	0, 2-6-13	
Total Bank Anda			
Total Depth 4740			

			10.75	_G.4.
Vacuum (G-SA)	RATOR Mobil	Oil Corp	DATE S-2	4-76:
Bridge State	WELL No	LOCATION B.	Sec. 13 TI	79- 83/
·				
Det Pt A Marker				•
Set 10 5x Cement	To Surf			<u>.</u>
	•	ų.		
Spot 30 Sx Ceme		•		•
Poit 5 2 casine	•		•	
Cement Top-	385' - T	emp. Survey		• •
197				•
			•	
1.9		•		
B5/8 " casing set a	t 1689	with _ 900_	sx of	cement
Hole size"			umente	erre:
		•	•	
H				
11				•
'				,
la l				
13				•
li .	=			
Mod :		`		•
I!		•	·	
H	-			
Spot 1 bbl. Cement	on Beti			
Set Cament Retaine	er - 4615'			
5/2 " casing set a	t 4665 '	with 1950 :	зж of	cement
Hole size			-	
· · · · (\				
···· \	•	-		
Sqzd. OH 4665	5-4716 W/ 2	00 Sx Comen	<i>+</i>	
	. 4	CA CEITIEFT	•	•
		11	1 -	
``.` . `. \		Mobil PiA'	1: 2-15-73	
···; -· · · · }				
Total Depth 4716			-	

ASE DELLAS LOCATION E - See 13.7173.83 Set PtA Marker Spatio Sk Cament to Surface. Location E - See 13.7173.83 Spot 35 Sk Cament - 1550'-1650' Hole size "" Camented - Spot 35 Sk Cament - 1550'-1650' Hale at 1595' Squad w/ 200 Sk Cement - Circulated. Lo "casing set at 1600' with " sk of cement - Circulated. Hole size "" Spot 30 Sk Cement 4200'-4450' Liner top. 4750 Spot 30 Sk Cement 4200'-4450' Liner top. 4750 Total Depth 4200' Hole size 2 " Gemented Cement - Commented Cemented C	TELD .	loss	RATOR	IDATE PA	
Spat 10:9x Cament to Surface. Spat 10:9x Cament to Surface. Spot 35 9x Cament - 1550'-1650' Camented -	V	acuma (G-SA)	Mobil Oil Co	5-24-76	
Spot 35 Sx Cament - 1550'-1650' Hole size " Camentad- Spot 35 Sx Cament - 1550'-1650' Hole at 1595' Sqxd w/ 200 Sx Cament - Circulated. Lo "casing set at 1600' with sx of ceme Hole size " Spot 60 5x Cament 4200'-4450' Linear to p. 4256' Systematic Camentad w/ 200 ox Cament Systematic Camentad w/ 200 ox Cament Systematic Camentad w/ 200 ox Cament		Bridge State	WELLING EUCATION	F - Sec 13. T175. 8	3
Hole size	1	•	nt to Surface	·	
Spot 35 9x (ament - 1550'-1650' Hole at 1595' 3qzd w/ 200 9x Cement - Circulated. 10 " casing set at 1600 ' with			= 319 ' with		eme 1
Hole at 1595' 3qzd w/ 200 5x Cement - Circulated. 10 " casing set at 1600' with sx of cement Role size " Camental Mobil PAd: 2-8-73 Spot GO 5x Cement 4200'-4450 Liner Top4258' 5/2* Liner Cemented w/ 200 5x Cement 8/4 " casing set at 4380 with 2 or of				Camentad -	
Hole size " Spot GO ax Cement 4200'-4450 Liner Top4758' 5/2" Liner Cemented #/200 ax Cement B'A " casing set at 4380 with	V- 60A			nt - curculated	
Hole size " Apot GO ax Cement 4200'-4450 Liner Top4258 -5'/z* Liner Cemented #/200 ax Cement B'A " casing set at 4300' with		casing set at	= 1600 ' with	sx of ce	mer
Spot 60 5x Cement 4200'-4450' 1-Liner Top. 4258' 5'/2" Liner Cemented "(200 5x Cement 8'4" casing set at 4380 with		Hole size ? "		· · · · · · · · · · · · · · · · · · ·	
Spot 60 sx Cement 4200'-4450' 1-Liner Top. 4758' 5/2* Liner Cemented = (200 sx Cement 6/4 " casing set at 4380 ! with				Mobil P\$A'd: 2-8-7	13
spot 60 5x Cement 4200'-4450' Liner Top4758' 5'/2" Liner Cemented "(200 5x Cement 6'4" casing set at 4380 with				· •	
B'4 " casing set at 4380 with ? sx of cer Total Depth 4900 Hole size ? " Cemented.		1-Liner To 0 4758			
Total Depth 4900 Hole size ? " Cemented	N. I	8'/4 " casing set	at 4380 ' with _	? sx of	cer
		Total Depth 4900	Hole size	Gemented	

Bottom Times 4900

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

FIELD Vacuum Grybg/SA LOCATION Lea County, New Mexico 660' FSL \$

M Sec 23 TITS R34E

SIGNED D. G. Elwood

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

PROPOSED WELLBORE DIAGRAM

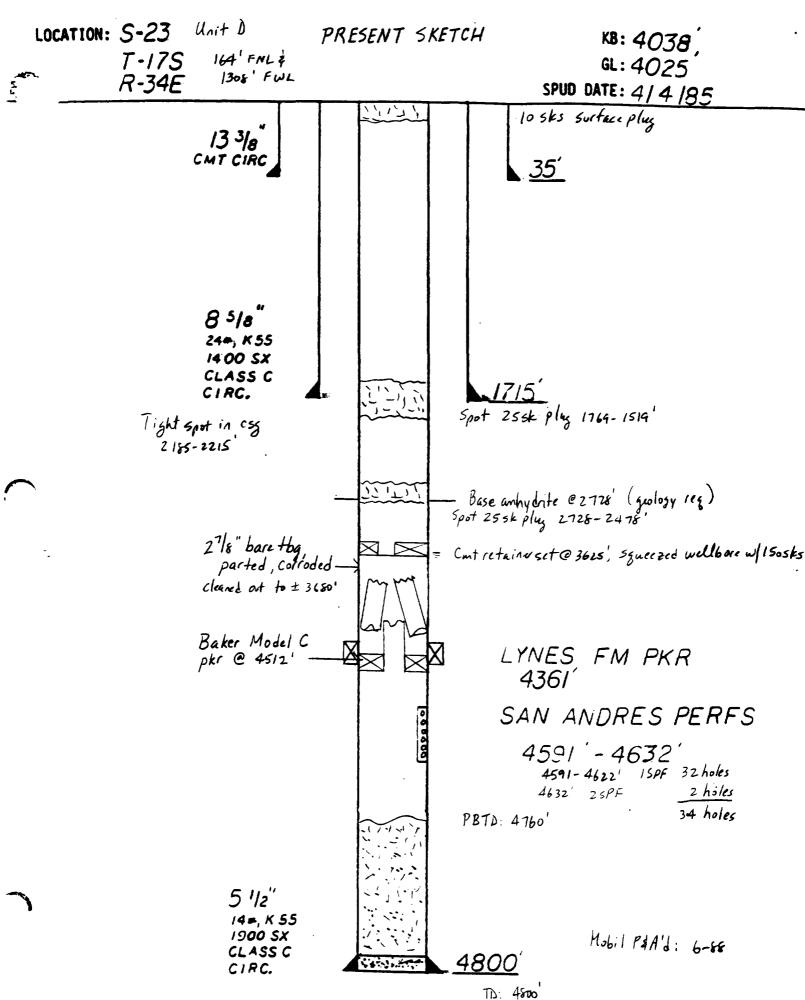
-10 sk cmt plag @ surface - Wellbore circ w/gelled brine Cmt retainer set @ 1436' + 13 sks (est Toc @ 1336') - 85/8" 24 16/ft of 32 16/ft csg set to 1594" w/1075 sks, cmt circ - Perf @ 1654' 25PF, squeezed w/350 sks, circ to surface TOC (behind 5 h" csg) @ 2450' (temp survey) CIBP set C 4483 + 12 sts cmt San Andres Perfs 4563-71, 75-81, 4592-4600' 25PF 44 holes - 5/2" 15.5, 17, 20 14 csg set to 4700 w/ 565 sks

> TD: 4700' PB TD: 4656'

Mobil P\$A'd: 3-8-89

DATE 7-7-86	WEL-NO. 29	LEASE <u>Bridg</u>	es State F	IELD <u>Vacuum GBG S</u>
LOCATION M-26	-17S-34E	SIGNED D.A	· ·	
660' FSL \$		POSED	٠.	K.B
Lea County	, NM			ZERO
				÷ •
	10 3/4", 3	6# CSG @ 828'	W/220 sx C	MT +55 or Aquage/
T v	- 4 New	1 Shot holes 6	838'+ circ. 5	150sx (Circ.)
] (2) (2) (2) (3) (3)	CSG B	reak @ 1035°		
1050' -	Joseph 3	USI ON DECEOM		
1050 -	7 /			
/	/ /			
/				
/				
/		-		
	Calc. TOC	237 5 ′		
	4			
	Ç			
A	7" DDD	C 1 = 1150'		
V V	V. NOP	Set@ 4150'		
	— 7". 24#	CSG @ 4250	0' CMT W//210	sx + 7 sx Aguage 1
\ \ \) cm / // 2/0	on / / on right ger
	}			
	}		Mobil PEA'd: 10-	7-86
{)			
TD 4850	· ·	,		
10 7030	•	•		

BRIDGES STATE 195



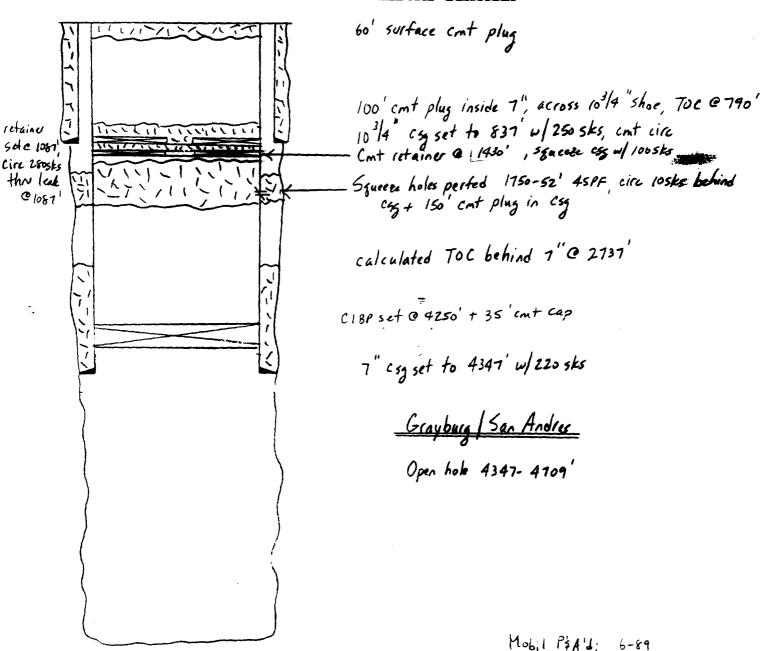
DGE

PBTN . 4760'

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

FIELD Vacuum Gryby San And. LOCATION J Sec 14 TITS R34 E 180' FSL & 180' FS

PROPOSED WELLBORE DIAGRAM



TD: 4709'

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)

State VA # 1

Unit N Sec 23 T 175 R 34E
660'FSL & 1980'FWL Lea County, NM

PRESENT

Contribution of the Topic of the State of th

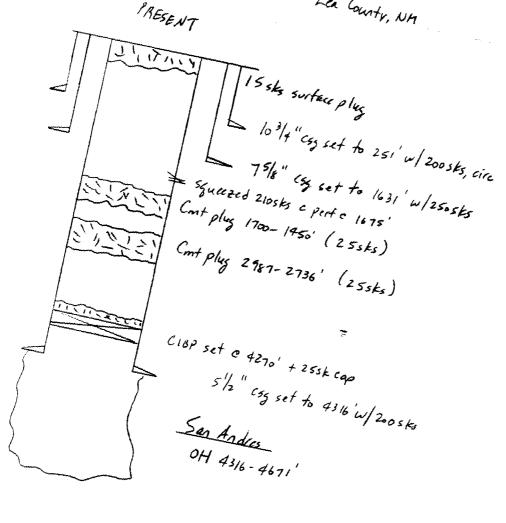
TD: 4740 PBTD: 4740

Amerada PZA'd;

MOBIL PRODUCING TEXAS & NEW MEXICO

State VA #2

Unit L Sec 23 Tits R34E Lea County, NA



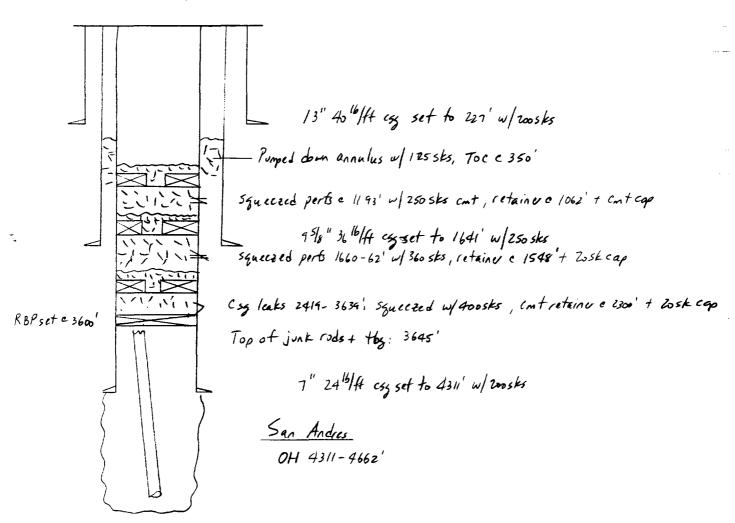
TD: 4671'

Amerada PiA'd: 9-29-82

The state of the s

MOBIL PRODUCING TEXAS & PEW MEXICO
(formally Amenda Hess Corp)
State VA #3
Unit K See 23 T 175 R34E 1980' FSL & 1980' FWL
Lea Gunty, NM

PRESENT



TD: 4662' PBTD: 4662' Amerada P&A'd: 9-8-76 Amerada re-P&A'd: 6-19-80

P&A'D WELL WITHIN ONE-HALF MILE
DATE 4-26-90 WELL NO. 2 LEASE Bridge State
FIELD Vacuum Gryby SA LOCATION Unit O Sec 14 TITS R34E 660'FSL \$ 1980'
Lea Courty, NM
SIGNED & Elwood GL 4039'
DF 4044* KB 466*
ZERO <u>F8 (11'AGL</u>) PROJOSEA WELLBORE DIAGRAM
100' (40 sts) surface plus
Wellbore circ wigelled brine (9-10ppg)
16" 70 "HH csg set to 60', cont circ
300 cmt plus (125sks) across top sett, 10 3/4" shoe, 7" ship
103/4° 40.5 16/ft cy set to 1853' w/ 490 sks, cmt circ
(IT) = 1-1 Til Cat 7" c ± 1900'
Spot 1505k plus 3580-3830' TOC (calc w/25% excess) @ # 3055'
Squeeze 150sts into lake 3976'
TOL C 4156' (No temp survey, est BOC c ± 4375')
7" 24"/H csy set @ 4364 w/315 sks (est 95/8" hole)
4315
150 sks cont plus 4090 - 4630' (± 45 sks in cg, ± 105 sks in OH & formation
San Andres Injection
OH 4574-4630'

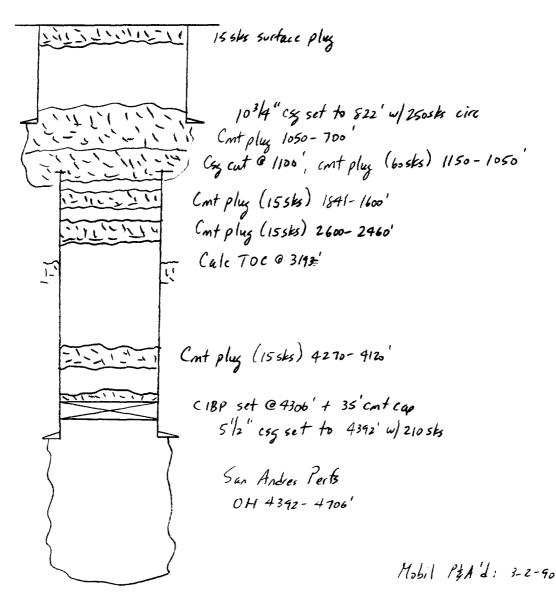
5" 15 16/ff line set @ 4574' w/ 300 sks + 200sks over line top (est 62/4" hole)
(est and, tacked esg w/20' cmt)

Mobil PAA'd: 5-9-90

TD: 4715' PBTD: 4630'

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

PRESENT



TD: 4706' PBTD: 4706'

DEE 6-1-90

		TEXAS \$ NEW	MEXICO
	Bridges State	e# 46 T115 R34E	
Uni	+ D Sec 13	T115 R 34E	
	Lea Countr		

PRESENT

Comt retainer set @ 4338', squeezed OH w/1506ks + 55k cap

7" cx set to 4394 w/ sks

San Andres Perts

OH 4394-4720'

Mobil P&A'd 1-17-73

TD: 4725'

DGE 6-1-90

LOCATION: S-23

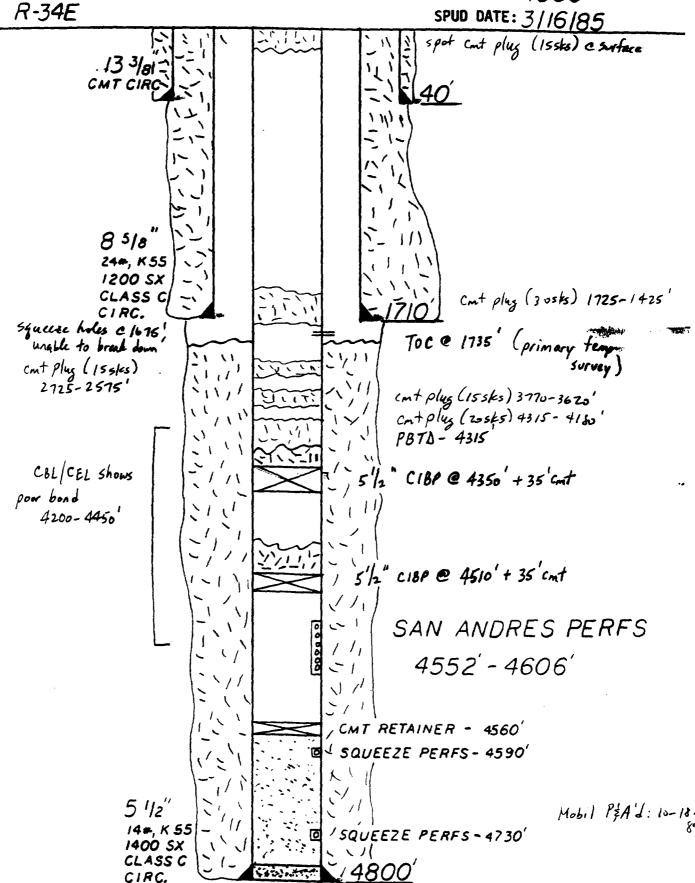
T-17S

PRESENT DIAGRAM

KB: 4042

GL: 4030

SPUD DATE: 3/16/85



PBTA: 4315 TD: 4800'

Martin Water Laboratories, Inc.

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

RESULT OF WATER ANALYSES

LABORATORY NO. __

708 W: INGLASSA MIDLAND, TEXAS. 79701 PHONE 688-4521

	SAMPLE RECEIVED	<u>5-29-90</u>	The state of the s
	RESULTS REPORT	ED 6-1-90	JUN 8-4-199
	- Central NV	A Station	
	E	A OCACION	MIDLAND PROD. ENG
	I.ea	TATE NM	
		31 A I E	
water lin	a 5-29-90		
water 1111	<u>c. 5 25 50</u>		
			
		·····	
m Elrod. M	artin Water La	bs. Inc.	
		NO. 3	NO. 4
8.39			
185		 	
4			
256	" 		
		<u> </u>	
		1	
0.25			
	-	+	
479			
2.0			
0.0			
15.18			
7			
7 NONE			
7 NONE NONE			
	grams Per Liter		
	LEAS Vacuum	LEASE Central NV	Mater line

Form No. 3

Waylan C. Martin, M.A.

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

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

RESULT OF WATER ANALYSES

	1.4	BORATORY NO	590307		
To: Ms. Donna Ellwood	CAL	HOLE DECEIVED	5-29-90		
P.O. Box 633, Midland, Texas	MPLE RECEIVED 5-29-90 ESULTS REPORTED 6-1-90				
	RE	SUL IS REPORTED) <u></u>		
COMPANY MEPUS		Bridges Sta	te		
	Vacuum	DITUGES SEE			
SECTION BLOCK SURVEY		Lea	TATE NM		
	_ COUNTY	S	TATETIL		
SOURCE OF SAMPLE AND DATE TAKEN:	Oridona Ctata	#12 5 20 0	Δ.		
NO. 1 Produced water - taken from E					
NO. 2 Produced water - taken from F					
NO. 3 Produced water - taken from E					
Produced water - taken from F					
REMARKS: 1 & 2 Blinebry 3 & 4 Glor	ieta - Sampl	es taken by T	om Elrod, Ma	rtin Water Lab	s, Inc
	ND PHYSICAL P			- 	*
- January L	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60° F.	1.1081	1.1477	1.1410	1.1352	
pH When Sampled	1.1001	1.14//	1.1410	1.1332	
pH When Received	7.10	7 20	7.59	7.45	
Bicarbonate as HCO ₃		7.30			
Supersaturation as CaCO3	366	415	476	439	
Undersaturation as CaCO3	90	20	<u>70</u>	100	
Total Hardness as CaCO3	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	
Suifate as SO4	573	2,780	3,124	3,009	
Chloride as CI	102,267	142,038	134,936	129,255	
Iron as Fe	0.07	1.2	12.9	0.65	
Barium as Ba	0.07	1.2	12.7	0.03	
Turbidity, Electric					
Color as Pt					
Total Solids, Calculated	166,642	235,673	226,844	217,366	
Temperature °F.	100,042	233,073	220,044	217,300	
Carbon Dioxide, Calculated	48	34	25	29	
Dissolved Oxygen,	40	34		29	
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	0.005	0:032	0.033	0.033	
Filtrable Solids as mg/I					
Volume Filtered, mi					
Calcium Carbonate Scaling Tendency	MODERATE	NONE	MARGINAL	MODERATE	
Calcium Sulfate Scaling Tendency	NONE	SEVERE	NONE	NONE	
Calcium Dullace Dealing Temedney	NONE	OH VERE	NOTE		
Results R	Reported As Milligram	s Per Liter			
Additional Determinations And Remarks			·		
					
		· · · · · · · · · · · · · · · · · · ·			

Form No. 3

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

ESULT OF WATER	ANALYSES	-	HONE 683-452
	45054505440	590307 (Page	2)
	AMPLE RECEIVED	5-29-90	
F	RESULTS REPORTE	6-1-90	
LEASE	Bridges Stat	te	
Vacuum			
COUNTY	Lea s	TATE NM	
n Bridges State	#103. 5-29-9	90	
I Diluges ocace	: 1113. 323.	70	
Glorieta			
L AND PHYSICAL	PROPERTIES		
NO. 1	NO. 2	NO. 3	NO. 4
1.1376	1.1383	1.1424	
7.02	7.57	7.01	
512	512	403	
90	50	50	
8,400	8,000	16,500	
2,440	2,200	5,200	
559	608	851	
82,415	82,722	81,784	
2,780	3,038	1,633	
130,675	130,675	136,356	
0.86	0.14	0.50	
-			
219,381	219,755	226,227	
82	27	64	
106	106	21.0	
0.055		0.053	
cy MILD	NONE	NONE	
NONE	NONE	NONE	
	COUNTY	SAMPLE RECEIVED RESULTS REPORTE	LABORATORY NO. 590307 (Page SAMPLE RECEIVED 5-29-90 RESULTS REPORTED 6-1-90

Form No. 3

Waylan C. Martin, M.A.

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

Operator		Sounty	Date
Mobil Exploration & Prod	ucina U.S. Inc.	Lea	6/15/90
Address		easeNorth Vacuum Abo Unit	i Well No.
Box 633, Midland, TX 79		Bridges State	109
of Well N	Towns	17S	Hange 34E
1. Has the New Mexico Oil Conservation	Commission heretofore auth	orized the multiple completion of	a well in these same pools or in the same
zones within one mile of the subject			
2. If answer is yes, identify one such in	stance: Order No	; Operator Lease, ar	d Well No.:
Ti (II)			
3. The following facts are submitted:	Upper Zone	Intermediate	Lower
a. Name of Pool and Formation	Vacuum Glorieta	Zone	Zone
	vacuum Groffeta	Vacuum Blinebry	Vacuum Abo
b. Top and Bottom of	5923-6303'	6202 72001	2000 02721
Pay Section	3923-0303	6303-7300'	8000-9272'
(Perforations)	Water Injection	Water Indeation	l Viata de Taria de La companya de L
d. Method of Production		Water Injection	Water Injection
(Flowing or Artificial Lift)	Injection	Injection	Injection
4. The following are attached. (Please of	theck YES or NO)		
b. Plat showing the loca of operators of all lea C. Waivers consenting to tors have been furnis X d. Electrical log of the	ers and location thereof, quant depth, location and type of parties of all wells on applicant ses offsetting applicant's less to such multiple completion for the hed copies of the application well or other acceptable logical or in available at the	ntities used and top of cement, per packers and side door chokes, and so it's lease, all offset wells on of ase. Tom each offset operator, or in li- in.* with tops and bottoms of produce time application is filed it sha	ding diameters and setting depths, central- erforated intervals, tubing strings, including such other information as may be pertinent. If set leases, and the names and addresses eu thereof, evidence that said offset opera- cing zones and intervals of perforation in- ll be submitted as provided by Rule 112-A.) ang address.
			·····

^{*}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.

DATE _	5-30-90	WELL NO.	109	LEASE North Vacuum Abo Unit
FIELD	Vacuum	Abo North	LOCATION	Unit N Sec 24 TITS R 34E
) <u> </u>	Elwood		1830' FWL \$ 610' FSL Lea County, NM GL 4007' DF 4019 KB 4019
		PROPOSED DIA	GRAM	ZERO <u>KB</u>
1010-1300			Current [7]	11 holes squeezed w/ 150 sks cmt - PERFORATED) 5923-6303' interval NB Perm Pkr set @ 8362' 41 holes 9520' w/25 sks cmt cap
			Upper Penn Per	rek
!			0,114-168 3	2 holes squeezed w/250 sks cmt
1	いんメ		— 7" 23 ^{lb} /4 (8 ³ /4	H 5-95 csg set to 10,366 w/ 1125 sks, cmt circ 4" hole)
	TD: PBTD:	12470', 10,129'		

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

Operator		County	Date
Mobil Exploration & Prod	ucina II S. Inc		6/15/90
Address		LeaseNorth Vacuum Abo Unit	6/15/90 Well No.
<u> </u>	702	Bridges State	_116
Location Unit Sect	10n To	washi;	Frange
of Well I		17S	34E
zones within one mile of the subject value. If answer is yes, identify one such in	well? YES	NO X	f a well in these same pools or in the same
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	5923-6303'	6303-7300'	8000-9272'
(Perforations) c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production			
(Flowing or Artificial Lift)	Injection	Injection	Injection
c. Waivers consenting to tors have been furnis	thed copies of the application well or other acceptable such log is not available at	on from each offset operator, or in liation.* log with tops and bottoms of product the time application is filed it sha	eu thereof, evidence that said offset opera cing zones and intervals of perforation in 11 be submitted as provided by Rule 112-A. ing address.
6. Fore all operators listed in Item 5 al date of such notification 6/15/9 CERTIFICATE: I, the undersigned, Mobil Producing Texas & New Mexical and a supervision and direction and to	Envir	ronmental, Regulatory Prevention Supervisor Mo uthorized by said company to make t	Mobil Exploration & Producing US I the As Agent for phil Producing Tx. & New Mexico Inc. his report was prepare
		G. N. Milher	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 twentyday; period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

FIELD Vacuum Abo North LOCATION Unit I Sec 24 TITS R +4E 1880 FSL \$ 510 FWL Lea County, NM SIGNED 16 Elward PROPOSED DIAGRAM Current Abo string: bare 2 1/8" + bg PROPOSED Baker Model A-5 Hydrostatic Qual pks set@ ± 6000 + bare 23/8" J-55 +64 -133/8" 48 15/ft 5-40 csy set to 372'. w/350 sks, cmt eine (17/2" hole) TOC by temp survey @ 605' -TOL @ 4671', squeezed w/600 sks _ 95/8" 36, 40 16/ff J-55 csg set to 4971 w/2300 sks cmt (12/4" hole) \boxtimes Glorieta Perts 6060,62,65,67,79,81,83,85,87,91,93,95,97; 6001,03,08,10 Blinebry Perts Squeezed w/ 190 sks 1 TO BE (TO BE RE-PERFORATED) 5923-6303' interval LETERMINED) Primary TOC@ SI85' Perm pkr @ 8350' Abo Perts 8438, 40, 41, 45, 46, 48-51, 60, 63, 64, 67, 69, 71, 72, 74-77, 79-82, 8484, 85, 87, 88, 91, 92, 95-99; 8504, 05, 21, 22, 23, 24, 25, 28, 46, 8550, 51, 70, 71, 73, 85, 86' mixed 1-25PF 63 total holes PBTD = 9016' CIBP set @ 9516, capped w/ 35 slcs cmT Wolfcamp Perts 9605-10,054 Baker Model D = kr @ 12070' Upper Penn Perts 10,087-10,141 Squeezed w/ 100 sks cmt __ 7" 23 16/ft 5-95 csg set to 10,436' w/965 sks cmt, cnt circ (83/4" hole) TO: 10,436

PBTD: 10,375

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

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

Operator		County	Date
Mobil Exploration & Proc	ducina U.S. Inc.	Lea	6/15/90
Address		LeaseNorth Vacuum Abo Unit	Well No.
	9702	Bridges State	119
Location Unit Second of Well F	24 To	wnshir 17S	Range 34E
1. Has the New Mexico Oil Conservation	on Commission heretofore a	uthorized the multiple completion of	a well in these same pools or in the same
zones within one mile of the subject			
2. If answer is yes, identify one such is			nd Well No.:
The felt and felt and the second and			
3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower
a. Name of Pool and Formation	Vacuum Glorieta	Vacuum Blinebry	Zone Vacuum Abo
b. Top and Bottom of	vacuum Giorieca	vacuum Billiebry	Vacuuiii Abo
•	5923-6303'	6303-7300'	8000-9272'
Pay Section	3323-0303	0303-7300	8000-9272
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production		water injection	Water Injection
(Flowing or Artificial Lift)	Injection	Injection	Injection
4. The following are attached. (Please	check YES or NO)		
	220 110,		
Yes No			
			ding diameters and setting depths, contral- erforated intervals, tubing strings, including
diameters and setting	g depth, location and type	of packers and side door chokes, and	such other information as may be pertinent.
			ffset leases, and the names and addresses
of operators of all le	ases offsetting applicant's	lease.	•
			eu thereof, evidence that said offset opera-
	shed copies of the applica	-	-i and intervals of poetaration in-
			cing zones and intervals of perforation in- II be submitted as provided by Rule 112-A.)
5. List all offset operators to the lease	on which this well is loca	ated consther with their garage mail	:
See attached list	e on which this well is loca	ated together with their correct mail	ing address.
See accached 11st			
			Υ
6. Were all operators listed in Item 5 a		d a copy of this application? YES	NO If answer is yes, give
date of such notification 6/15/		•	
	Envir	onmental, Regulatory	Mobil Exploration & Producing US In
CERTIFICATE: I, the undersigned,	state that I am the LUSS	of	the As Agent for his report was prepared that this report; and that this report was prepared
under my supervision and direction and	company), and that I am at that the facts stated there	uthorized by said company to make the in are true, correct and complete to	his report; and that this report was prepared the best of my knowledge.
		\sim \sim 1 7	$\cap \cap$
		(9780, K). KL	V_{01}
		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.

DATE _	5-30-90	WELL NO.	_//9	LEASE _	Vorth Vacuum	Abo Unit
FIELD _	Vacuum Abo	North	LOCATION	Unit F	Sec 24 T175	R 34 E
SIGNED	DG Elwa	nd		/980' FNL	GL <u>40/3</u> DF <u>4023</u>	Lea Gunty, NM
	PRO	POSED DIAG	ERAM		KB <u>4024</u> ZKRO <u>10'/464</u>	(KB)
inebry Perfs BE LETER HINES) 9930		Glorie (To 592 Baker 1. Abo 841 CIBP 956	- Current Abord - Proposed ± 5950' + 133/8" 48 15/4 (171/2") TOL @ 4768, 95/8" 36, 40 (121/4" ta Perfs BE DETER 3-6303' interv Model NB Per Perfs 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 2, 13, 57-60, 6° 3, 15, 15, 15 2, 15, 15 3, 15 4, 15 4, 15 4, 15 4, 15 5, 15 6, 15 6, 15 6, 15 7, 15 1, 15	Baker Mole 23/8 H-40 cs hole) Squeezed HINED) MINED) MINED) MINED MINED Ssks Cmt ca	are 23/8" N-80 Andel A-5 Hyd. " +bg sg set to 360" W/50 sks Csg set to 5 86,81,88,89,90 i SPF	tostatic Dual phrset@ w/375 shs, Contains 28366 + OE flow tube 8373' -94; 8500, 03-08' 29 holes
	TO THE STATE OF TH	10,069	186 per & 10, enn lerts 10,114' 158F	030 + blar : 8 holes	oking play + 25	sks ent cap
		7			to 10,425 wy	11000 sks, cmt circ
	TD: 12,391	' PBTO: 10,	3 <i>58</i> '			

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

Mobil Exploration & Prod		County	Date
Address	ucina U.S. Inc	1	
		Lea LeaseNorth Vacuum Abo Unit	6/15/90 Well No.
	702	Bridges State	204
Location Unit Sect	10n Tow	nshir 17S	Range 34E
			a well in these same pools or in the same
zones within one mile of the subject			a well in these same pools of in the same
2. If answer is yes, identify one such in			d 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		Tadam Dillesiy	radam 7150
Pay Section	5923-6303'	6303-7300'	8000-9272'
(Perforations)	Waton Injection	Water Injection	Water Injection
d. Method of Production	Water Injection	Water Injection	Water Injection
(Flowing or Artificial Lift)	Injection	Injection	Injection
4. The following are attached. (Please of	heck YES or NO)		
b. Plat showing the loca of operators of all lea	tion of all wells on applic ses offsetting applicant's	ant's lease, all offset wells on of lease. from each offset operator, or in lie	such other information as may be pertinent. fset leases, and the names and addresses eu thereof, evidence that said offset opera-
X d. Electrical log of the dicated thereon. (If su 5. List all offset operators to the lease See attached list	well or other acceptable leach log is not available at	og with tops and bottoms of producthe time application is filed it sha	cing zones and intervals of perforation in- l be submitted as provided by Rule 112-A.)

*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.

DATE	5-30-90	_ WELL NO.	204	LEASE /	Jorth Vacuum Ab	in Unit
FIEL	D Vacuum A	bo North	LOCATION	Unit & Se	ec 24 T/75 R341	<u>-</u>
				660 FNL 3	\$860' FWL Lea	a Cunty, NM
SIGN	ED DGE	lwood			GL <u>4020</u> DF <u>4048</u>	<i>a</i> .
	P	ROPOSED DIA	AGRAM		KB <u>4044</u> ZERO <u>ks</u>	
Inchry Perts TOBE DETERMINED) PBTD = 9980'	7	CIE CIE	- Current Abo - PROPOSED - 13 3/8" 48 (11 1/2 - TOL @ 481 - 95/8" 36 (12 1/2 ieta Perts TO BE DETER 23 - 6303' 107 m phr set @ 8" Perts 484 - 92; 85 3P set @ 10,00	"hole) 3', Squeezee 16/4 J-55 4"hole) HINED) terval 433' 510-27, 30-	el A-5 Hydrosta " the (J-55) cs set to 370' w/ d w/ 100 sks cmt cs set to 4975' - Cap	tic Dual pkr set@ 350 sks, cmt circ w/2400 sks, cmt circ SPF 65 total ho
	18 TD: 10,17	1				

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, 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.

G. N. Miller

Environmental, Regulatory and Loss Prevention Supervisor

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.

6. N. Miller Environmenta

Environmental & Regulatory, Loss Prevention Supervisor

JWD

. attachments

cc: Oil Conservation Commission w/attachments

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	
	*Iocation: 1830 FWL; 610 FSL	
	*Section: 24 ,T 17S ,R 34E	
	*County: Lea	
3.	Formation Name: Blinebry and Glorieta	
	Injection Interval: see below to	
	Maximum Injection Rate: see below	
	Maximum Pressure: see below	
4.	Interested parties, who can show that they are adversely affe	ect ed
	by this application, must file objections or requests for he	aring
	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	
**	G-Glorieta 5923-6303 800 1200 Blinebry 6303-7300 200 1200 8000-9272	

	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
1	*Iocation: 1190 FNL; 1260 FWL
1	*Section: 25 (Unit D) ,T 17S ,R 34E
	* County: Lea
3.	Formation Name: Grayburg-San Andres, Glorieta, Blinebry
	Injection Interval: <u>See behow</u> to
	Maximum Injection Rate: See below
	Maximum Pressure: See below
4.	Interested parties, who can show that they are adversely affect
	by this application, must file objections or requests for hear
	with the Energy and Minerals Department, Oil Conservation
	Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within
	15 days after this publication.
· * _	Grayburg -San Andres - 4444-5923

1.	Mobil Producing Tx. & N. 179702	M. Inc, P.O.	. Box 633	, Midlar	nd, Texas				
	Attention: Judy Dixon, 915/688#2452								
	will apply for permission to inject Fresh Water								
	into the following well/w	ells for the	purpose	of: Se	econdary				
2.	Well Name and Number: Br	idges State	601						
	* Iocation: 1670 FNL; 26	00 FWL	· · · · · · · · · · · · · · · · · · ·						
	*Section: 25 (F)	,T	175	,R	34E				
,	* County: <u>Lea</u>								
3.	Formation Name: Grayburg-	-San Andres,	Glorieta	, Blineb	ry 				
	Injection Interval:	Grayburg-San Glorieta	Andres 5923	- 4444 -	- 5923 6303				
·	Maximum Injection Rate:	Blinebry	6303		7300				
	Maximum Pressure:_	see below							
4.	Interested parties, who o		_		•				
	with the Energy and Miner	als Departm	ent, Oil	Conserv	ation				
	Division, P.O. Box 2088,	•							
	15 days after this public	ation.							
•		Glorieta Blinebry	BWPD 800 200	PSIG 1200 1200					

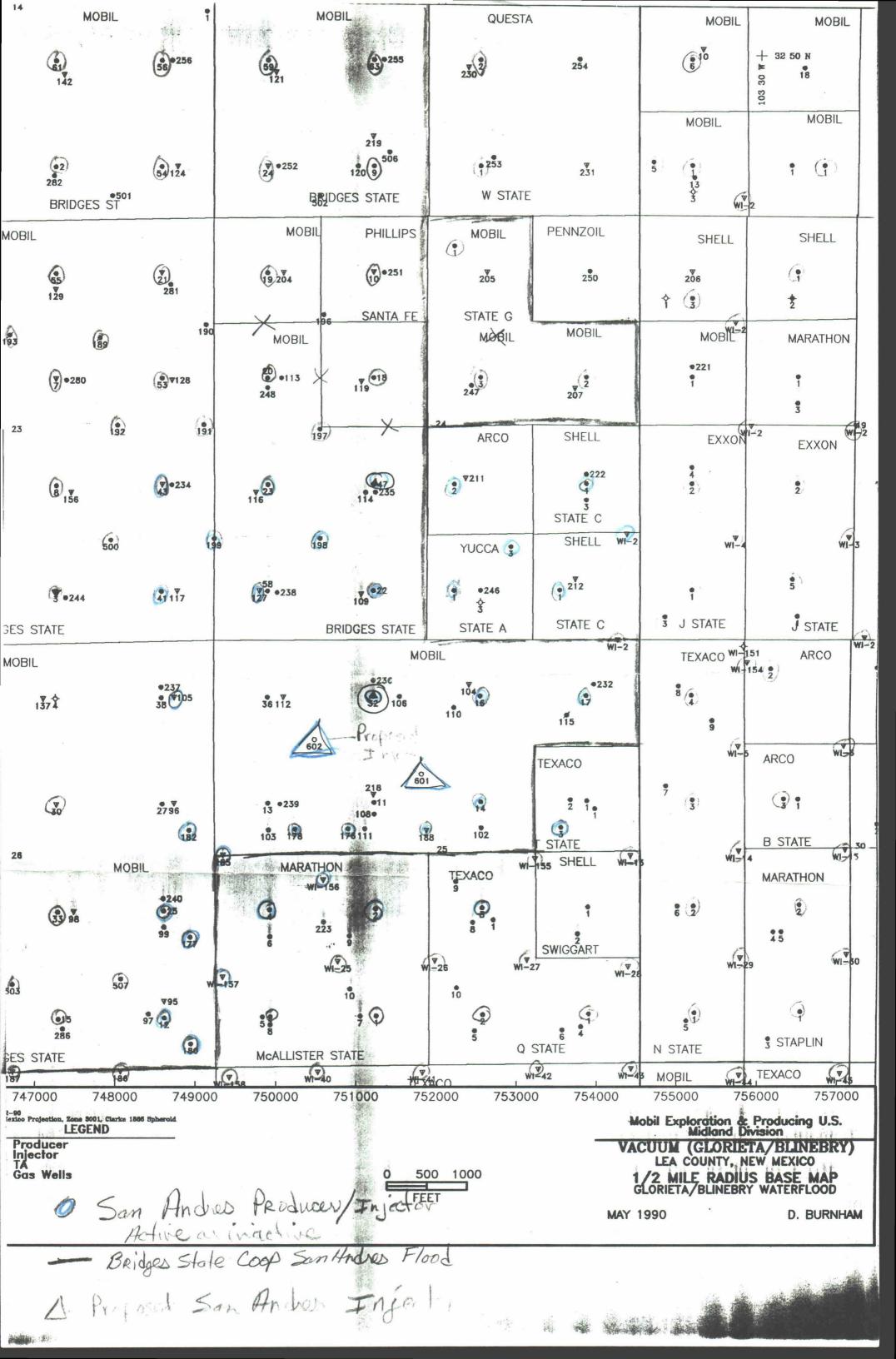
Grayburg-San Andres 800

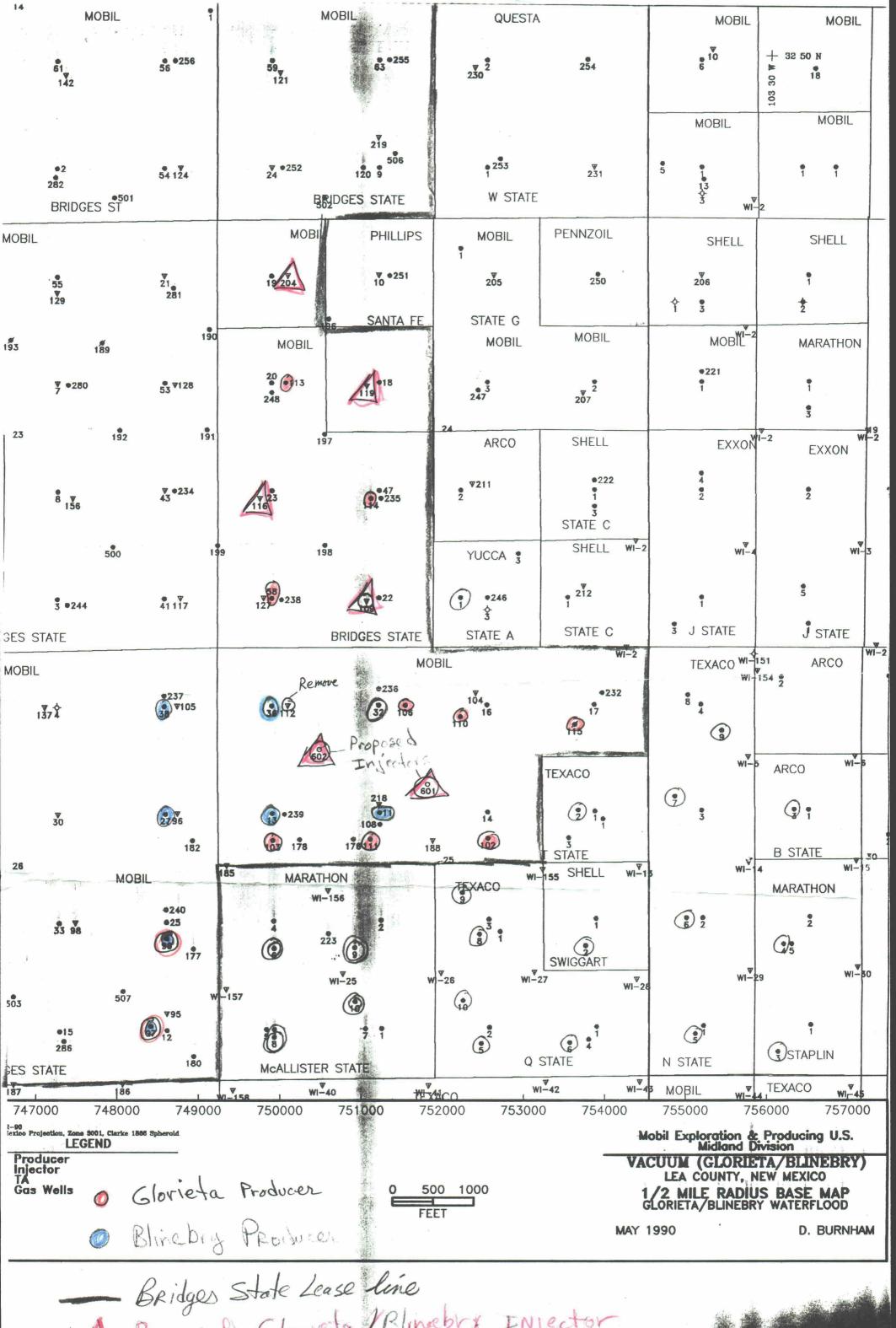
950

79702	. Inc, P.O. Box 633, Midland, Texas
Attention: Judy Dixon, 9:	
•	ells for the purpose of: Secondary
Recovery	
Well Name and Number: Brid	dges State 119
Iocation: 1830 FWL; 2030	
Section: 24	,T1/5,R34E
County: Lea	
Formation Name: Blinebry	and Glorieta
Injection Interval: Se	
Maximum Injection Rate:	
Maximum Pressure:	
Interested parties, who ca	an show that they are adversely affe
by this application, must	file objections or requests for hea
with the Energy and Minera	als Department, Oil Conservation
Division, P.O. Box 2088, S	Santa Fe, New Mexico 87501 within
15 days after this publica Glorieta - 5923-6303 Blinebry - 6303-7300	

	Attentions Judy will apply for pe				iter-		
	into the following	ng well/wel	ls for th	e purpose	of: S	econda	ry
	Recovery			, , , , , , , , , , , , , , , , , , , 			
	Well Name and Nu	mber: Brid	ges State	204			
*	Location: 900	FWL; 660 FN	L				
	Section:			175	,R	34E	& 35E
	County: Lea						
	Formation Name:	al:	see below	٧			
	Maximum Pressure						
	Interested parti			_		_	
	_	ion, must	file objec	ctions or	reques	ts for	hear

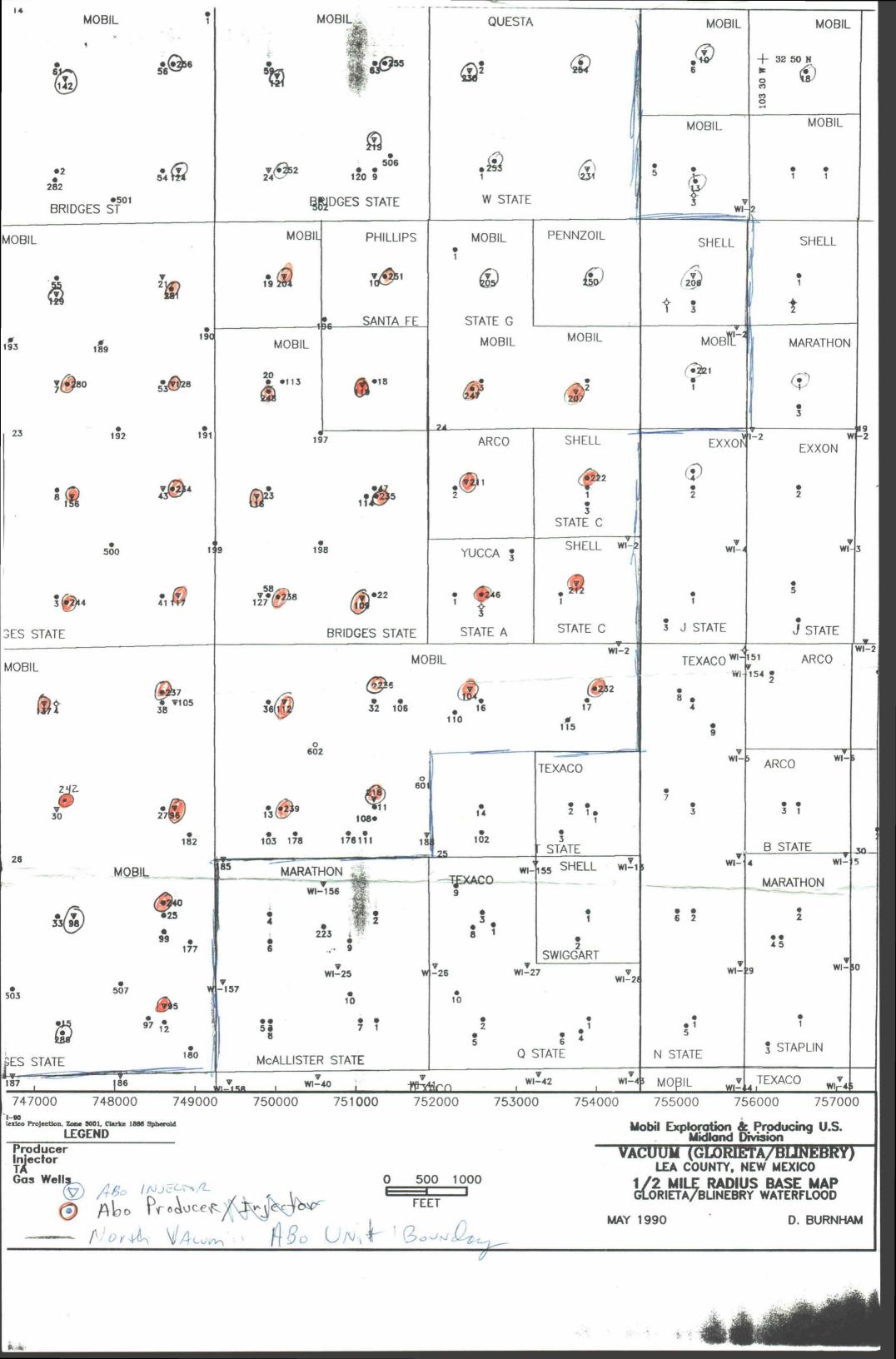
Mobil Produ 79 702	cing Tx. &	N. M. Inc.	P.O. Box	633, Miđ	land, Texas
Attentions_	Judy Dixon	, 915/68 8	2452		
will apply	for permiss	ion to inje	ct Fres	h Water	
			·		
into the fo	llowing wel	ll/wells for	the purp	ose of:	Secondary
Recover	<u> </u>				
Well Name a	und Number:	Bridges Sta	ate 116	·	
location:_	510 FWL;	1880 FSL			
Section:	24	,т	175	,F	34E
County:	.ea				
Formation N	Name: Blin	ebry and-Glo	orieta		
		see below		to	
		e:			
Maximum Pre			see below		
		<u> </u>			
Interested	parties, w	no can show	that they	are adv	versely affe
by this app	plication, s	must file ob	jections	or reque	ests for hea
with the Er	nergy and Mi	inerals Depa	rtment,	Dil Conse	ervation
Division,	P.O. Box 20	88, Santa Fe	e, New Me	kiœ 8750	01 within
15 days aft	ter this put	olication.			
orieta - 592 inebry - 630			BWPD 800 200	PSIG 1200 1200	





Bridges State Lease line

A Proposed Glorieta / Plinebry Injector



Mobil Exploration & Producing U.S. Inc.

June 15, 1990

P.O. BOX 633 MIDLAND, TEXAS 79702

MIDLAND 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

RECEIVED

JUN 2 0 1990

OIL CONSERVATION DIVISION

Care / CCO

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.

Mobil

State of New Mexico -2-Bridges State Well Nos. 601 & 602 June 15, 1990

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.

G. N. Miller

Environmental, Regulatory and Loss Prevention Supervisor

Juy D. Willer

JWD/fc

Attachments

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

B:M015548a.JWD

Mobil

State of New Mexico -2-Bridges State Well Nos. 601 & 602

June 15, 1990

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.

Jug N. 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

WAIVER

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:

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,

Duy N. Miller

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

G. N. Miller

Environmental, Regulatory and Loss Prevention Supervisor

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.

POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING BANTA FE, NEW MEXICO 8/501

RECEIVED

Revised 7-1-81

I.	Purpose: Secondary Recovery Pressure MaintenacowsFRVATIONING Application qualifies for administrative approval? Xyes	Storage
II.	Operator: Mobil Exploration & Producing U.S., Inc. as Agent for	
	Address: Mobil Producing Texas & New Mexico Inc. Box 633, M	lidland, TX 79702
	Contact party: G. N. Miller Phone: (915)	688-1753
Π.	Well data: Complete the data required on the reverse side of this fo proposed for injection. Additional sheets may be attache	rm for each well d if necessary.
. V.	Is this an expansion of an existing project?	·•
٧.	Attach a map that identifies all wells and leases within two miles of injection well with a one-half mile radius circle drawn around each pwell. This circle identifies the well's area of review.	
/1.	Attach a tabulation of data on all wells of public record within the penetrate the proposed injection zone. Such data shall include a des well's type, construction, date drilled, location, depth, record of c a schematic of any plugged well illustrating all plugging detail.	cription of each
I.	Attach data on the proposed operation, including:	
	 Proposed average and maximum daily rate and volume of fluids Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and conthe receiving formation if other than reinjected produced w If injection is for disposal purposes into a zone not product at or within one mile of the proposed well, attach a chemic the disposal zone formation water (may be measured or infer literature, studies, nearby wells, etc.). 	mpatibility with ater; and ive of oil or gas al analysis of
· .	Attach appropriate geological data on the injection zone including ap detail, geological name, thickness, and depth. Give the geologic nam bottom of all underground sources of drinking water (aquifers contain total dissolved solids concentrations of 10,000 mg/l or less) overlyi injection zone as well as any such source known to be immediately und injection interval.	e, and depth to ing waters with ng the proposed
x.	Describe the proposed stimulation program, if any.	
х.	Attach appropriate logging and test data on the well. (If well logs with the Division they need not be resubmitted.)	have been filed
(I.	Attach a chemical analysis of fresh water from two or more fresh wate available and producing) within one mile of any injection or disposal location of wells and dates samples were taken.	
I.	Applicants for disposal wells must make an affirmative statement that examined available geologic and engineering data and find no evidence or any other hydrologic connection between the disposal zone and any source of drinking water.	of open faults
I.	Applicants must complete the "Proof of Notice" section on the reverse	side of this form.
v.	Certification	
		l , Regulatory &
	Name: G. N. Miller Signature: (11/1), (11/1) Date: 6/15/	
	Signature: Date: 6/15/	

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.

P.O. Box 633 Midland, TX 79702 Address:

Contact Party: G.N. Miller, Supv Environmental and Regulatory (915) 688-2000

III. Well Data

- A. See attached schematics
- 1. Vacuum Blinebry Field
 - Injection interval: 6303' 7300' (NVAU #109 type log)
 - 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
 - See attached schematics
 - Next higher oil-producing zone (both wells) Glorieta: 5923' - 6303' (NVAU #109 type log)
 - Next lower oil-producing zone (both wells) Abo: 8000' - 9272' (NVAU #109 type log)
- IV. Is this an expansion of an existing project? No
- ٧. See attached map
- VI. See attached table and wellbore schematic
- VII. Average daily injection rate: 100 BWPD Maximum daily injection rate: 200 BWPD
 - 2. Closed system
 - Average injection pressure: 1000 psig Maximum daily injection pressure: 1200 psig
 - 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
 - Χ. 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

OIL CONSERVATION DIVISION POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING

BANTA FE. NEW MEXICO 8/501

FORM C-108 RECEIVED 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT Vacuum Grayburg/San Andres Field 20 1990 LOLDOOMSERVATION LOW STON age Secondary Recovery Pressure Maintenance Application qualifies for administrative approval? yes Mobil Exploration & Producing U.S., Inc. as Agent for II. Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702 Contact party: __ G. N. Miller Phone: (915) 688-1753 Well data: Complete the data required on the reverse side of this form for each well III. proposed for injection. Additional sheets may be attached if necessary. _ Yes IV. Is this an expansion of an existing project? If yes, give the Division order number authorizing the project R-1244 dated 9/17/58. Attach a map that identifies all wells and leases within two miles of any proposed ٧. 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. Attach data on the proposed operation, including: VII. Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; 2. Proposed average and maximum injection pressure; 3. Sources and an appropriate analysis of injection fluid and compatibility with 4. the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). Attach appropriate geological data on the injection zone including appropriate lithologic *VIII. 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. Attach appropriate logging and test data on the well. (If well logs have been filed Χ. 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. Applicants for disposal wells must make an affirmative statement that they have XII. 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. Environmental, Regulatory & TitleLoss Prevention Supervisor Name: G. N. Miller 6/15/90 Signature: \ Date: _ If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (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 <u>MARCH</u>	LOCATIO	<u>N</u>		
TEXACO CVU SUPPLY WELL NO. 1	*	Unit M	Sec 30	T17S R35	iΕ
BUCKEYE STORE WATER WELL	36	Unit P	Sec 25	T17S R34	ŀΕ
FORKLIFT ENT. BUCKEYE STATIO	N *	Unit D	Sec 30	T17S R35	δE
NVAU NO. 100	169	Unit J	Sec 14	T17S R34	ΙE
NVAU NO. 101	122	Unit D	Sec 14	T17S R34	ŀΕ
BRIDGES STATE NO. 179	41	Unit P	Sec 14	T17S R34	ŧΕ
BRIDGES STATE NO. 94	80	Unit J	Sec 14	T17S R34	ŀΕ
RANCH WINDMILL	31	Unit N	Sec 18	T17S R35	δE
AMAX NO. 6	55	Unit D	Sec 26	T17S R34	ŧΕ
MOBIL OFFICE WATER WELL	60	Unit B	Sec 25	T17S R34	ŧΕ
LEE PLANT SUPPLY WELL NO. 3	160	Unit B	Sec 31	T17S R35	5E
LEE PLANT SUPPLY WELL NO. 4	, *	Unit D	Sec 31	T17S R35	δE
MOBIL SUPPLY WELL NO. S09	*	Unit H	Sec 24	T17S R34	1E

^{*}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
 - 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 <u>MARCH</u>	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. SO9	*	Unit H Sec 24 T17S R34E

^{*}Inactive, unable to test

DIL CONSERVATION DIVISION

FORM C-108 Revised 7-1-81

POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 8/201 P= 10000

ı.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? yes no				
11.	Operator: Mobil Exploration & Producing U.S., Inc. as Agent for Mobil Producing Texas & New Mexico Inc. Box 633, Midland, TX 79702				
	Contact party: G. N. Miller Phone: (915) 688-1753				
111.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.				
IV.	Is this an expansion of an existing project?				
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.				
· VI.	Attach a tabulation of data on all wells of public record within the area of review whic penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.				
VII.	Attach data on the proposed operation, including:				
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). 				
VIII.	Attach appropriate geological data on the injection zone including appropriate lithological, 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. Environmental, Regulatory & TitleLoss Prevention Supervisor				
	Signature: Date: 6/15/90				
mdus	ne information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance he earlier submittal.				

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 <u>MARCH</u>	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	<u></u> *	Unit D Sec 31 T17S R35E
MOBIL SUPPLY WELL NO. SO9	*	Unit H Sec 24 T17S R34E

^{*}Inactive, unable to test

BEFORE ' E OIL CONSERVATION COMMIS ON 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:

(Bash Isan) <u>Roll store</u>

(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 -5-Case No. 1493 Order No. R-1244

(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 herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

MURRAY E. MORGAN, Member

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

SEAL

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 Bridge	es State 601,602, 109, 116, 119, and 204
2.	Well No. 601, 6	502, 109, 116, 119, 204
3.	Well Location: Unit SEE PLATS	, feet from line,
		feet from line of Section,
	Town	ship Range, Lea County,
	New	Mexico
4.	Upper Zone Glorie	eta
5.	Completion Interval	(NVAU log) Glorieta 5923-6303
6.	Lower ZoneBli	nebry
7.	Completion Interval	(NVAU Log) Blinebry 6303-7300
3.	Current Productivity	Test Summary
		Vacuum Vacuum <u>Glorieta Blinebry</u> (Upper Zone) (Lower Zone)
Oil Gas Wate GOR	ducing Method Bb1./day Mcf/day er Bb1/day Limit	Proposed Valves water injection 800 200
		of Upper Zone <u>400 PSI (Vacuum Glorieta)</u>
* 10.	Bottom-nole Pressure	e of Lower Zone
	Fluid Characteristic Glorieta 36-38 Blinebry 36-38	8° API OIL

^{*} Estimated by static fluid level

EXHIBIT "B"

CCMPUTATION 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
Pcol Name	Vacuum Glorieta	Vacuum Blinebry	Glorieta/Blinebry
Gravity, API			
Selling price/BBL	_		
Daily Producint/BBL.			
Daily Income			
TOTAL DAILY INCOME (POC	OLS SEPARATED)		
Net difference realized	i from downhole com	mingling based on	current well test=
gain.			
RANGEMAN SEX DESCRIPTION OF	F OPERATION:		
Injection in the Vacuu	um Glorieta and Vac	uum Blinebry will b	e performed using one
tubing string. The co	ombined injection r	ate will be regulat	ed at the surface.
There will be no down	nole equipment to r	egulate injection p	er zone. See attached
sketch for proposed o	peration.		

FORM C-108, ITEM VI MOBIL OIL APPLICATIONS TO INJECT INTO SAN ANDRES, SLORIETA, BLINEBRY FORMATIONS VACUUM FIELD, LEA CO., NM 5/31/90

SORTED BY LOCAT	ION, OPERATOR	, LEASE, & W	ELL ORDER				TOTAL		COMPLETION
API #	OPERATOR	LEASE	WELL	TOWNSHIP		SEC	TOTAL DEPTH	STATUS	DATE 5 (Yyyymmdd) ==================================
30025020260001		BRIDGES-ST	1	T017S	R034E	S13	4900		19360731
30025020260000	MOBIL	BRIDGES-ST	1	T0175	RO34E	S13	4900	P&A	19290822
30025220520000	MOBIL	BRIDGES-ST	107	T017S	R034E	513	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	513	4800	OIL	19850813
30025295630000	MOBIL	BRIDGES-ST	506	T017S	R034E	513 S	12505	OIL	19860326
30025297200000	MOBIL	BRIDGES-ST	513	T017S	R034E	513 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
300025020230000	MOBIL	BRIDGES-ST	69	T017S	R034E	913	4670	DIL	19400620
30025020240090	MOBIL	BRIDSES-ST	73	T0175	R034E	S13	4716	F&A	19 400821
30025020250000	MOBIL	BRIDGES-ST	60	T017S	R034E	\$13	4716	P&A	19551201
30025020170000	MOBIL	BRIDGES-ST	9	T017S	R034E	S13	4682	OIL	19380714
30025020180000	MOBIL	BRIDGES-ST	WI24	T0175	R034E	913	4700	INJ	19390210
300 25 020200000	MOBIL	BRIDGES-ST	WI46	T0175	R034E	S13	4700	INJ	19391116
30025221000000	MOBIL	NVAU	120	T0175	R034E	S13	10400	S OIL	19 <i>6</i> 70711
30 025221 01000 0	MOBIL	NVAU	121	T0175	R034E	513	10550		19670901
30025235580000		NVAU	147	T0175	R034E	S13	11775		19701023
30025236930000		NVAU	152	T0175	R034E	813	8700		19710404
30025237530000		NVAU	165	T0175	R034E	913		2 OIL	19710608
30025246120000		NVAU	219		R034E	S13	8550		19740207
300 25250980000		NVAU	253	T017S	R034E	S13	8750		19750926
30025287350000		NVAU	252	T017S	R034E	813	8700		19840819
30025287360000		NVAU	253	T017S	R034E	S13	8700		19840911
30025287240000		NVAU	254	T017S	R034E	513	7100		19840724
30025287370000		NVAU	255	T017S	R034E	S13	8700		19840905
300 25287 390000		NVAU	257	T0175	R034E	913	9100		19840813
30025287400000		NVAU	258	T017S	R034E	513	8706		17840816
30025238210000		NVAU	260	T017S	R034E	S13	8700		19840914
30025307220000		NEW MEXICO	5	T0175	R034E	913 S	4700+~		NONE @ 4/90
30 02522344 00 00		NVAU	230	T0175	R034E	S13	10600		17680225
30025238640000		NVAU	231	T017S	RO34E	S13	8800		19711012
10025020270000		STATE W NC	1	T0175	R034E	E13	4680		17711012
300 25020280000		STATE W NO	2	T0179	R034E	£13	4700		17301120
300 25238 60000	=	BRIDGES-ST	124	T0175	2034E	514 914	19565		17490614
30025323870001		BRIDGES-ST	12 9 125	T0178	7034E	514 514		174J GAS-40	170 8V361 17780107
30025234060000									
390232340 80 000 3002 5 235310000		PRIDGES-ST	433 14	T0175	R034E	914	12215		19700303
		B9IDGES-ST	14	10175 TM26	R034E	214	87 5 0		(97)(9)) <u>}</u> : 8754996
19025237800000		BRIDGES-ST	:7)	10178	R034E	S14	2900 2754		19720229
30025240250000		BRIDGES-ST	173	10178	R034E	S14	8750 6750		19720327
11025243250000		BRIDGES-ST	17 <u>9</u>	701 75	R034E	E14	97 5 0		:
30025020290000		BRIDGES-ST	2	T0175	R034E	514	4593		19370925
20025920300000		BRIDGES-ST	34	T017S	R034E	E14	4650		19390703
30025020310000		BRIDGES-ST	37	10173	R034E	514	4642		19390805
30025292590000		BRIDGES-ST	501	T0175	R034E	514	4800		19850708
30025020330000	MOBIL	9RIDGES-ST	54	T017S	R034E	314	4660	OIL	19400305

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

SORTED BY LOCAT	ION, OPERATOF	R, LEASE, & WE	LL ORDER				TOTAL		COMPLETION DATE
API #	OPERATOR	LEASE	WELL	TOWNSHIP		SEC	DEPTH	STATUS	(YYYYMMDD)) =================================
30025020340000		BRIDGES-ST	56	T01 75	R034E	514	4670		19400408
30025020360000	MOBIL	BRIDGES-ST	61	T017S	R034E	S14	4674	P&A	19400504
30025020370000	MOBIL	BRIDGES-ST	6 2	T017S	R034E	S14	4700	INJ	19400506
300 250203800 00	HOBIL	BRIDGES-ST	64	T017S	R034E	S14	4664	INJ	19400618
300 2502039 00 0 0	MOBIL	BRIDGES-ST	65	T017S	R034E	S14	4660	INJ	19400529
300 25020 400000	MOBIL	BRIDGES-ST	66	T017S	R034E	314	4740	PIA	19400627
300 25 02041000 0	MOBIL	BRIDGES-ST	67	T017S	R034E	S14	4738	OIL	19400719
30025020430000	MOBIL	BRIDGES-ST	70	7017 S	R034E	514	4732	P&A	19400725
300 2502044 0000	MOBIL	BRIDGES-ST	71	T0178	R034E	314	4739	F&A	1 740 07 29
300 2502032 0000	MOBIL	BRIDGES-ST	WI40	T017S	R034E	514	4725	INJ	19390913
300 2523541 0000	MOBIL	NVAU	139	T01 75	R034E	514	8750	INJ	: 9700808
300 2523566 0000	MOBIL	NVAU	142	T017S	3034E	514	8700	INJ	19700927
300 2523 6460000	MOBIL	NVAU	146	70178	8034E	214	8700	INJ	19701220
300 2523986000 0	MOBIL	NVAU	171	T017S	R034E	S14	8700	INJ	197 2 0124
30025020350000	MOBIL	NVAU	175	70178	R034E	314	4660	INJ	19400509
300 2528738 0000	MOBIL	NVAU	256	10175	R034E	314	8700	01L	19840920
360 25238300000	MOBIL	NVAU	259	T017S	R034E	S14	8700	OIL	19840926
3002 5290 240000	MOBIL	NVAU	275	70175	R034E	314	8800	OIL	19850115
300 2529239 00 0 0	MOBIL	NVAU	585	T0178	R034E	914	8800	OIL	19850731
30025292400000	MOBIL	NVAU	283	T0175	R034E	S14	0088	DIL	19851003
30025292410000	MOBIL	UAVK	284	T0175	₹034E	314	0088	OTL	.9850 9 09
30025292420000	MOBIL	NVAU	285	70175	₹034E	S14	3800	CIL	19851029
300 252 96070000	MOBIL	NVAU	297	10:79	R034E	314	9800	BIL	19860527
30025020700000	AMERADA H	STATE VA	1	T0175	R034E	523	4740	F&A	17380414
30025020710000	AMERADA H	STATE VA	2	70178	9034E	523	4671	P&A	19380603
30025020720000	AMERADA H	STATE VA	3	70175	R034E	323	3 662	FEA	19380805
30025222650000	AMERADA H	STATE VA	W16	T0175	R034 E	523	4700	P&A	19671024
30025020770000	MOBIL	BRIDGES-ST	10	T017S	R034E	S23	4676	OIL	19380712
30025218280000	MOBIL	BRIDGES-ST	117	T0175	R034E	323	10414	INJ	19560927
300 2522942 0000	MOBIL	BRIDGES-ST	128	T0179	8034E	S2 3	8580	INJ	19490205
30025236580000	MOBIL	BRIDGES-ST	151	T017S	5034E	923	12180	INJ	19710321
30025290100000	MOBIL	BRIDGES-ST	139	T0175	R034E	323	4750	01L	19941217
300 2529 01100 00	MOBIL	BRIDGES-ST	190	T0175	R034E	S 23	4750	OIL	19850107
300 25250120000	MOBIL	BRIDGES-ST	191	70179	2034E	923	4800	OIL	19841831
300 2529 0130000	MOBIL	BRIDGES-ST	192	7.175	9034E	923	4761	GIL	19850110
30025291600000	MOBIL	BRIDGES-ST	193	T0175	R034E	623	4800	Oit	17850422
30085291610000	MOBIL	BRIDGES-ST	174	70173	2034E	523	4800	DIL	:9350507
30025291620000	MOBIL	BRIDGES-ST	195	T0178	9034E	323	4400	22A	19 85 0520
30025291700000	MOBIL	BRIDGES-ST	199	10175	=034 E	923	-8(n)	915	1935(\6))4
300 2502073 0001	MOEIL	BRIDGES-ST	3	70178	20 34E	323	4608	143	.9400516
E00 25 0 2 0730000	MOBIL	BRIDGES-5T	3	10179	F034E	923	+551	INJ	19380206
30085020790000	HOBIL	BRIDGES-ST	7 1	10173	:034E	983	-e₹:		127125
30025020800000	MOBIL	BRIDGES-ST	41	70175	5034E	223	4720	01L	19390913
300 2529258 0000	MOBIL	BRIDGES-ST			R034E	923	4800		19850708
30025020820000	MOBIL	BRIDGES-ST	53	70175	8034 E	823	4605		17400227
300 250208300 00	MORIL	BRIDGES-ST		70178	R0 34E	823	4625		19400305
30025020840000	MOBIL	BRIDGES-ST	57	T0173	508 4E	323	4700	BIL	[9400403



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

SORTED BY LOCAT	ION, OPERATOR	I, LEASE, & WEI	LL ORDER						COMPLETION
							TOTAL		DATE
API ₩	OPERATOR	LEASE		TOWNSHIP			DEPTH		(TYYYMMDD)
									*===========
30025020740000		BRIDGES-ST	6	T0175	RO34E	523		OBSERV	19380717
30025020760000		BRIDGES-ST	8	T017S	R034E	S23	4740		19380608
30025296750000		BRIDGES-ST	WD-511		R034E	S23 S		SWD	19860909
30025020780000		BRIDGES-ST	WI21	T017S	R034E	523	4660		19390102
30025020810000		BRIDGES-ST	WI43	T017S	R034E	523		INJ	19391014
30025020750000		BRIDGES-ST	W17	T017S	RO34E	S23	4700		19380608
30025231000000		NVAU	129	T0178	R034E	323	8600		17690608
30025236950000		NVAU	155	T017S	RO34E	923	8700		19710416
30025236760000		NVAU		T0178	R034E	923		INJ	19710430
30025239820000		NVAU	213	70179	RO34E	523	3800		19720114
30025283140000		UAVA		70175	R034E	523	8700		17840214
300 25286 030000		NYAU	244	T0175	R034E	523	8700		19840522
3002528604(*)00		NVAU		19175	R034E	323	8711		19840613
30025292350000		NVAU		T0179	R034E	353	8800		19850828
30025292360000		NVAU		70179	R034E	S23	8792		19850920
30025292370000		NVAU		T017S	RO34E	52 3	8800		19351008
30025292380000		NVAU		T0178	R034E	S23	8800		19950708
300 252956 00000		NVAU		70178	R034E	9 23 N		DIL	19860423
30 02524 0440 00 0		NVAU		T017S	R034E	523	8800	INJ	19720320
300 2520673 00 00				T0175	R034E	924	7014	INJ	19640611
30025 21830 000 0		BRIDGES-ST	113	T0175	R034E	924	6225	CIL	19666935
30025218660000	MOBIL	BRIDGES-ST	114	10175	R034E	S24	5210	OIL	19660930
30085818080000	MOBIL	BRIDGES-ST	115	T0175	A034E	324	10436	INJ	19860822
30025220010000	MOBIL	BRIDGES-ST	119	T0179	₹03 4E	324	12391	INJ	19670330
300 25 02 088 0000	MOBIL	BRIDGES-ST	18	T0178	R034E	924	4700	DIL	19381122
300 25020690 000	MOBIL	BRIDGES-ST	19	T0179	R034E	524	4700	0IL	19381130
300 25291<i>6</i>3 0000		BRIDGES-ST	156	T0175	R034E	524	4800	DIL	19850523
300 2529167 00 00	MOBIL	BRIDGES-ST	177	T0178	R034E	924	4800	BIL	198 50 530
3002 5291 690000	MOBIL	BRIDBES-ST	198	T0179	R034E	524	4800	OIL	19850618
30025020900000	MOBIL	BRIDGES-ST	50	10179	R034E	524	4690	INJ	19381883
31025020910000	MOBIL	BRIDGES-ST	55	T017E	R034E	324	4700	OIL	19390118
30025020920000	MOBIL	BRIDGES-ST	23	70 17 5	R034E	524	÷700	OIL	19390204
30025020930000	MOBIL	BRIDGES-ST	47	T0175	E034E	524	4680	INJ	19391115
30025020940001	MOBIL	PRIDGES-ST	58	70175	R034E	924	4600	OIL	19631129
300 252263 00000	MOBIL	BRIDGES-ST	WI127	T0178	RO34E	924	4850	INJ	17630715
30025221050000	MOBIL	NVAU	204	T0175	90 34E	324	103±0	INJ	19570705
30085881050000	MOBIL	NVAU	205	T: 178	R034E	824	10401	INJ	19870888
2002 522 7600000	MOBIL	NVAU	207	T017\$	R034E	324	8653	inj	19681025
30025227120000	MOBIL	NVAU	211	70178	E034E	324	10133	5IL	(9691207
300 25248 510000	MOBIL	NVAU	322	T017E	9034E	324	3660	OIL	19750210
300 252931 50000	MOBIL	NVAU			R034E	324	8675		19840130
30025282130000	MOBIL	SVAU			RC 34 E	324	T400		17831009
300 25284 660000	MOBIL	NVAU			R034E	924	8700		19831227
300 2528587 0000	MOBIL	NVAU			R034E	S 2 4	3700		17640508
300 252862790 00	MOBIL	NVAU			R034E	824	8710		19840521
300 2528618000 0	MOBIL	NVAU			R034E	S24	9700		17840612
300 2528723 0000	MOBIL	NVAU	250	T017 5	R034E	824	9100		19840801



FORM C-108, ITEM VI MOBIL OIL -PPLICATIONS TO INJECT INTO SAN ANDRES, GLORIETA. BLINEBRY FORMATIONS VACUUM FIELD, LEA CO., NM 5/31/90

	GORTED BY LOCATI	ICN, OPERATOR	, LEASE, & WEL	L ORDER						COMPLETION
								TOTAL		DATE
	API #		LEASE		TOWNSHIP					(YYYYMMDD)
:	20022222222									
	30025287340000		NVAU	251	T017S	RO34E	S24	8710		19840814
	30025020990000		SANTA FE-S		T0175	R034E	S24	4706		19381107
	30025020960000		STATE 6	1	T017S	R034E	S24	4905		19370525
	30025020970000				T017S	R034E	S24	4750		19381214
	30025020980000			3	T017S	R034E	S24		INJ	
	30025216170000		STATE-BRID			R034E	S24		INJ	
	30025268580000				T0178	R034E	324		W-INJ	
	30025274190000			3		R034E	924		OIL	
	30025273370000				T0175	R034E	524		W-INJ	
	30025273310000					R034E	524		DIL	
	30025224000000			2	T0173	R034E	S24		OIL	
	30025020950000					R034E	S24		DIL-P&A	
	30025020850000			ì		R034E	524	4005		19390614
	30025020860000			1	T0179	R034E	524		DIL	
	30025020870000			5		R034E	S24		OIL	
	30025021070000			1		R034E	925		DIL	
	300 25021080000			2	T017S	R034E	S25		OIL	
	30025021090000		MCCALLISTE	3	T0173	R034E	325	4590	OIL	19381223
	30025021100000	MARATHON	MCCALLISTE	4		R034E	S25		OIL	
	30025200500000	MARATHON	MCCALLISTE	8		R034E	925	6800	OIL	
	30025201430000		MCCALLISTE	9	T0175	R034E	525		OIL	19530714
	30025201150000	MARATHON		7	70175	7R034E	325	12125	2 011	19630910
	30025202490000	MOHTARAK	STATE-MCCA	10	T0179	R034E	325	5800	E OIL	19431915
	E0025201160000	MARATHON	STATE-MCCA	5	T017S	R034E	525		3 01F	17430501
	300 25202350 000	MARATHON	STATE-MCCA	5	T0178	R034E	825	6800	2 0IL	19630605
	30025210410000	WOBIL	BRIDGES-ST	102	T0178	8034E	525	7500	OiL	_ 7541207
	30025021000001	MOBIL	BRIDGES-ST	11	T0178	9034E	\$25	6800	P&A	17630210
	50025228500000	MOBIL	BRIDGES-ST	115	T0179	R034E	S2 5	6242	PLA	19590103
	30025021010001	MOBIL	BRIDGES-ST	13	T0175	R034E	S25	9800	01L-M0	19630103
	30025021020000	MOBIL	3RIDGES-ST	14	10175	R034E	525	4270	OIL	:9381108
	30025021040000	MOBIL			10175	R034E	925	4750	OIL	19931017
	30025021050000	MOBIL	BRIDGES-ST	17	70179	R034E	S25	4750	F&A	19381109
	300 25 245690000	MOBIL	PRIDGES-ST	176	T01 7 9	R034E	525	4850	OIL	19740129
	30025245710000	MOBIL	BRIDGES-ST	178	T0178	R034E	S25	4850	SIL	19740880
	300 25 021030000	MOBIL	BRIDGES-ST	32	T0175	R034E	925	4620	INJ	19390514
	30025021060002	MOBIL	BRIDGES-ST	35		R034E	S25	690¢		:=710614
	300035334250000	MOBIL	PRIDGES-ST	WI-185		3034E	925	4900		1991321
	30025234290000	MOBIL	PRIDGES-ST	#I-189	T017E	R034E	925	4800	[4]	17840327
	31025245050000	MGBIL	NVAU	218	70178	R)34E	925	8600		.9740188
	30025275190000		NVAU	232		R034E	325	8750		15820103
	30025293156000	MOBIL	NVAU	235	T0179	903 4E	925	8700		17831114
	30025235850000	MOBIL	TVAU	53 0	7/175	91 34E	325	3700		19840503
	30025208730000	MOBIL	STATE-BRID	103	70178	R034E	525	6200		19 650106
	20025213620030	MOBIL	STATE-BRID	104		R03 4E	525	10200		19650716
	30025213640000		STATE-BRID	106		R034E	S2 5	6150		19650428
	300 252 18 41 0000		STATE-BRID	108		R034E	925	00261		19560119
	30025214490000	MOBIL	STATE-BRID	110		R034E	325	6200		19450312



FORM C-108, ITEM VI MOBIL OIL APPLICATIONS TO INJECT INTO SAN ANDRES, SLORIETA. BLINEBRY FORMATIONS VACUUM FIELD, LEA CO., NM 5/31/90

SORTED BY LOCAT	ION, OPERATOR	, LEASE, & WEL	L ORDER						COMPLETION
API #	OPERATOR	LEASE	WELL	TOWNSHIP	RANGE	SEC	TOTAL Depth	STATUS	DATE (YYYYMDD)
			======		::::: :: :	======	======	=======	
30025214750000		STATE-BRID	111	T0175	R034E	S25	6190		19660402
30025217510000		STATE-BRID	112	T017S	R034E	S25	10530		19660623
30025084530000		LA SWIGART	1	T017S	R034E	S25	4700		19380913
30025202120000		SWIGART	5	T017S	R034E	S25	6900		19630221
30025216630001		CENTRAL VA	12	T0175	R034E	S25		OIL-WO	19810620
30025301020000		CENTRAL VA	553	T017S	R034E	S25 N	4730		19880310
30025258100000		CENTRAL VA	WI-13		R034E	525		W-INJ	19 79 0130
300 25279 650000		CENTRAL VA	WI-155		R034E	S25		W-INJ	19821230
30025277660000		CENTRAL VA	WI-156		R034E	925		W-INJ	19821113
300 252796 700 00		CENTRAL VA	WI-157		R034E	S25		H-INJ	19821124
30025258130000		CENTRAL VA	WI-25		R034E	S25		W-INJ	19780425
30025258140000		CENTRAL VA		T017S	R034E	S25		W-INJ	19780461
30025259150000		CENTRAL VA		T017S	R034E	225		W-INJ	19780317
30025258160000		CENTRAL VA		T017S	R034E	S25		W-INJ	19780414
300 2527913 0000		NEW MEXICO	10	T017S	R034E	925	6100		19821024
30025272360000		NEW MEXICO	9	T017S	R034E	525	6150		19810716
30025209510000		STATE OF N	5	T0175	R034E	S25	6800		19641024
30025202940000		STATE OF N	4	T0175	RO34E	S25		3 OIL	19631204
30025201720000 30025209470000		STATE OF N	5	T0178	R034E	S25		5 OIF	19631023
30025209490000		STATE OF N	6 9	T0175	R034E R034E	925 C25		5 0IL	19840324
30025207470000		STATE OF N	1		R034E	925 925		2 OIL	19040923
300 25 021110000		STATE Q	5				4725		17380721
30025021130000		STATE D	3	T0178 T0178	R034E R034E	S25 S25	4750		192 8 06 29
30025021130000		STATE T	1	T017S	R034E	32 5	4725		19380930
30025216630000		STT/NW MXC	3		R034E	323 925	4725 4740		19390418
30025209420000		TEXACO-MOB	1	T017S	R034E	525		3 OIL	19660405 19640 81 8
30025209480000		TEXAS-SHEL	1		RO34E	S25	10200		17640529
30025021170000		BRIDGES-ST	12	T0175	RO34E	259	4725		19380802
30025021180000		BRIDGES-ST			RO34E	526	4763		19380911
30025236940000		BRIDGES-ST		T0175	R034E	926	8700		19710330
30025237590000		BRIDGES-ST			R034E	526	4800		17720215
30025245700000					R034E	526	4850		19740207
30025246320000	·				R034E	926		ōIL	19740220
30025280610000		BRIDGES-ST		T0175		526		GIL	1983)125
30025021200000		BRIDGES-ST			R034E	926	4750		17390225
30025021210000	MOBIL	BRIDGE3-ST			9034 E	526	4710		:9390312
30025021220001	MOBIL	BRIDGES-ST	27	70178	RO34E	826	7000		17521110
300 05 3130000	MOBIL	SRIDGES-ST		T0175	3034E	936	4740	OIL	19290424
300 25 021190000	MOBIL	BRIDGES-ST	29	70175	2034E	326	472 5	FSA	17370414
30025021240001	MOBIL	BRIDSES-ST		70175	R034E	52£	4800	INJ	19681881
300 25 051250000	MOBIL	BRIDSES-ST			=034E	536	4745		19391513
30025021260000		BRIDGES-ST			R034E	526	4700		19390817
30025021270000	MOBIL	BRIDGES-ST			R034E	526	4725		19390813
300 25 021150000	MOBIL	PRIDGES-ST			R034E	S26	4758		19380428
30025021160000			5	T0175	R034E	S2 6	4750	INJ	19380502
300 2527 2620000	MOBIL	BRIDGES-ST	503	T017S	R034E	9 26	+800	OIL	198 50828

ILLEGIBLE

FORM C-108, ITEM VI
MOBIL OIL
APPLICATIONS TO INJECT INTO SAN ANDRES, BLORIETA, BLINEBRY FORMATIONS
VACUUM FIELD, LEA CO., NM
5/31/90

SORTED BY LOCAT	ION, OPERATOR	R, LEASE, & WEI	LL ORDER				TOTAL		COMPLETION DATE
AFI #	OPERATOR	LEASE	WELL			3EC	DEPTH		DATE (YYYYMDD) ===============
300 252926 30000		BRIDGES-ST		T0175	R034E	526	4800		19850818
30025296310000	MOBIL	BRIDGES-ST	507	T017S	R034E	S26 S	4800	OIL	19870501
30025021280000	MOBIL	BRIDGES-ST	95	T017S	R034E	526	13816	3 OIL	19621219
30025200800000	MOBIL	BRIDGES-ST	96	T017S	R034E	S26	12150	3 OIL	19630322
30025200680000	MOBIL	BRIDGES-ST	97	T017S	R034E	526	6750	OIL	19630120
30025203200000	MOBIL	BRIDGES-ST	98	T017S	R034E	S26	11660	5 01F	19631215
300 252 014 8 00 00	MOBIL	BRIDGES-ST	99	T017S	R034E	526	6750	2 OIL	19630912
300 252842800 00	MOBIL	BRIDGES-ST	WI-187	T017S	R034E	526	4800	INJ	19840330
30 02523394 0000	MOBIL .	BRIDGES-ST	WI132	T0178	R034E	S26	4912	INJ	19700264
300 2523526000 0	MOBIL	NVAU	118	T017S	R034E	326	8700	INJ	19700715
300 2523 4620000	MOBIL	NVAU	136	70175	R034E	926	8700	INJ	19700522
300 2523527000 0	MOBIL	NVAU	137	T0175	R034E	926	8700	INJ	19700722
£00 2523 5400000	MOBIL	NVAU	138	70178	8034E	326	8700	lNJ	19700 80 7
300 2528317 00 00	MOBIL	NVAU	237	T0178	R034E	526	8700	OIL	19831229
300 252860 00000	MOBIL	NVAU	240	T0178	R034E	526	8700	OIL	17840530
300 25286 010000	MOBIL	NVAU	241	T0175	R034E	S26	8700	OIL	19840704
300 25386020000	MOBIL	NVAU	242	T017S	R034E	526	8750	OIL	19840808
30025286020000	MOBIL	NVAU	242	10175	R034E	S26	8700	01L	19840808
300 25285860 000	MOBIL	NVAU	243	T0175	R034E	S26	8700	GIL	19840511
300 25287220000	MOBIL	UAVA	249	T0175	R034E	S26	8720	OIL	19840828
300 252943 00000	HOBIL	NVAU	286	70178	R034E	S26	8700	01L	19851224
30025294310000	MOBIL	NVAU	287	T017S 3	R034E	525	8800	OIL	19851231
300 25213630000	MOBIL	STATE-BRID	195	10179	₹034 E	326	6150	INJ	19550422
300 25 12 70 40000	MOBIL	STATE-BRID	53	T0178	R034E	526	4735	OIL	19390607
30025028310000	BARNETT D	STATE B	1	T017S	R035E	519	4783	D&A-	19450323
300 25028340000		SHELL-STAT	2	T0175	R0 35E	S19	4816	OIL	19590703
300 25028270000		CITIES SER	2	T0173	R035E	319	4756	OIL	19560311
30025238780000		MEXICO-STA	4	T0175	₹03 5E	519	8739	OIL	19711088
30025207080000		NEW MEXICO	3	T017 S	R035E	519	62 B 0	OIL	19640911
30025240130000	HUMBLE OI	NEW MEXICO	5	T017S	R935E	319	8740	ŪIL	197 2 0225
3002 5 028280000		STATE J	İ	T0175	÷035E	519	4725	OIL	17331014
30025028290000	HUMBLE DI	STATE J	2	10178	R035E	319	4765	01L	19390201
30025028240000	JOSALINE	STATE C	1	T017S	R035E	519	4705	OIL	19491013
300 2502825 0000	JOSALINE	STATE C	2	70178	50 35E	319	4 ± 86	OIL	19500521
300 25 02 83 00000	MARATHON	STAPLIN-ST	1	10175	80 35E	\$19	4700	CIL	17390814
30025237940000		NVAU	206	T017S	R035E	S19	6300	INJ	19710625
319 252485 00000	MOBIL	NVAU			R035E	319	8720	JIL	19750115
30 025 02 833000 6		STATE N	1	T0179	R035E	519	4780	0IL	19381109
30025274210000		E V(3R-9 A	1	70178	F035E	319	4800	OIL	19880831
300 25 274 2 30000		E V(GR-S A			R035E	519	4800	01L	19820821
30025271130000		E V(GR-S A			R0 35E	319	4800	01L	19820409
10085848570000		E V(GR~8 A			903 5E	319	4 <u>8</u> €0	W-14J	19801389
30025271140000		E V(GR-S A			R035E	519	4800	W-INJ	19811024
3002 527330000 0		E V(GR-S A			30 35E	319	4800		19820917
300 2527338000 0		E VCM(GBGS			R035E	S1 9	4750		19320908
3002 5273390000		E VCM(GBSA		T0175	R035E	S19	4800		19820812
3002 527340000 0	PHILLIPS	E VCU(8B-S	¥1-3	T0178	R035E	519	4800	W-INJ	19911020



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

	TOR OF ENDION	I, LEASE, & WE	CE OUDEN						COMPLETION
757 #	OPERATOR	LEASE	нен	TOWNSHIP	DANGE	eer	TOTAL	CTATHE	DATE (Yyyyhndd)
#F1 #									(
30025265680000			3	T017S	R035E	S19		OIL	19800507
30025273410000			MI-5	T017S	R035E	519		W-INJ	19820313
30025274220000	PHILLIPS	E VU(68-S	3	T017S	R035E	S19	4800	OIL	19820528
30025273290000				T017S	R035E	S19	4805	W-INJ	19811003
300 25274200 000	PHILLIPS	EAST VACUU	3	T017S	R035E	519	4800	OIL	19820328
30025240800000	PHILLIPS	SANTA FE	122	T017S	RO35E	519	9000	OIL	19720519
30025028320000				T017S	R035E	S19	4880	GIL	19400829
30025240510000	SHELL DIL	STATE /K/	3	T017S	R035E	519	8900	OIL	19720410
30025240450000	SHELL OIL			T017S	R035E	S19	3975	OIL	17720318
30025028230000	SHELL OIL	STATE K	1	T017S	R035 E	519	4686	GIL	19490216
300 25240280000	SHELL OIL	STATE K	1	T017S	R035E	519	3900	OIL	19720221
300 25 02 82 60000	SINCLAIR	STATE J DE		T017S	R035E	519	+700	OIL	19400622
300 250293900 00	JOSALINE	STATE E	i	70173	R035E	53 0	4666	DIL	19500111
30025029410000			1	T017S	R035E	930	4702	GIL	19380417
300 25 029420000				10178	R035E	530	4710	OIL	173 9 0320
30025219070000	NARATHON	STAPLIN-ST	5	70175	R035E	530	4750	OIL	19670101
30025210090000	MARATHON	STATE-STAP	3	T0175	R035E	S30	6150	OIL	19640605
300 2520746 0000				T0175	R035E	5 3 0	6150	OIL	19640702
30025256740000	PENROC OI	STATE /AR/	1	T017S	R035E	530	9800	OIL	19780110
30025238010000	PHILLIPS	SANTA FE	120	70175	RO35E	530	4750	OIL	19710722
3002508 5 450000	PHILLIPS	SANTA FE	2	T0179	R035E	930	4685	OIL	19380a01
30025029430000	PHILLIPS	SANTA FE	25	T0175	₹035E	530	4667	OIL	19390225
300 25 207940000	PHILLIPS	SANTA FE-S	100	T0175	R035E	530	6800	DIL	19640826
300 25207950000	PHILLIPS	BANTA FE-S	101	T0175	R035E	530	5200	ŌĬĹ	19840907
30025027440000	SHELL OIL	STATE B	1	T017S	R035E	930	4700	OIL	19391010
30025085300000	SHELL DIL	STATE B	2	70179	R035E	530	4735	DIL	19381209
30025208210000	SHELL OIL	STATE B		T017S	R035E	830	7100	OIL	19540401
300 25 20 822 0000	SHELL DIL	STATE B	4	T0175	30 35E	S30	5200	OIL	19640908
30025208270000				T0175	R035E	S30	4300	D&A	19640519
30025213530000	SINCLAIR	STATE	5	T0175	R0 35E	5 3 0	ú č Sa	OIL	15651001
30025213520000	SINCLAIR	STATE	3	T017S	R035E	530		a oil	19650528
30025029510000	SINCLAIR	STATE B-15	į	70175	R035E	530	4728	JIL	19390192
30025029520000	SINCLAIR	STATE B-15	5	T0175	R035E	830	4724	OIL	19400506
30025029400000	SINCLAIR	STATE L DE	1	T0175	R035E	530	4605	ΰIL	39400818
300 2525817 0000	TEXACO	CENT VACUU	WI-300	T0175	R035E	530	4800	W-INJ	197 8 0505
30025219076001	TEXACO	CENTRAL VA	19	T0179	ROSSE	330		01⊾-#0	.9830615
30085085450001	TEXACO	CENTRAL VA	33	70175	2035E	530	4705	014-40	. 2930833
30025 29 034(0)00	TEXACO	CENTRAL VA	9	70175	R035E	530	4710	ΰIL	:7950 8 93
30025258110000	TEXACO	CENTRAL VA	W [-] ÷	70175	9035E	530	4870	W-[N]	19790511
30025267920000		CENTRAL VA	MI-148	10175	R035E	330	4800	W-[A]	17801203
30025247936000		CENTRAL VA	WI-149	T0178	R035E	830	4800	W-INJ	15301211
30085858180000		CENTRAL VA	aI-15	1175	R035E	330	9813	8-15-3	17.80463
3002 32 67740000	TEXACO	CENTRAL VA	WI-150	70175	R035E	530	4800	w-lNJ	19801224
30025267950000	TEXACO	CENTRAL VC	WI-151	19178	R035E	530	1918	J&A	19801224
30025272350000		CENTRAL VA	WI-154		R035E	930	4800	W-INJ	(5810 608
30025257930000	TEXACO	CENTRAL VA	MI-19	10178	R035E	S 3 6	4870	W-INJ	19780510
300 25257 940000	TEXACO	CENTRAL VA	WI-29	T0179	R035E	530	4800	W-INJ	12780419

ILLEGIBLE

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

SORTED BY LOCAT		, LEASE, & WELI LEASE		TOWNSHIP	RANGE	SEC	TOTAL DEPTH	STATUS	COMPLETION DATE (YYYYMMDD)
30025257950000		CENTRAL VA	WI-31	T017S	R035E	S30		W-INJ	19780314
30025258080000	TEXACO	CENTRAL VA	WI-5	T0175	R035E	530	4800	W-INJ	19790306
30025258090000	TEXACO	CENTRAL VA	₩I-6	T017S	R035E	S30	4830	W-INJ	19790308
30025257920000	TEXACO	CENTRAL VA	WI-7	T017S	R035E	530	4800	W-INJ	19790105
30025029490000	TEXACO	STATE CS	i	10175	R035E	S 30	4700	OIL	19590302
30025029450000	TEXACO	STATE N	1	T017S	R035E	S30	4850	OIL	19381020
30025029460000	TEXACO	STATE N	2	T0175	R035E	330	4720	OIL	19381121
30025029470000	TEXACO	STATE N	3	T017S	R035E	S30	4750	OIL	19390522
30025029480000	TEXACO .	STATE N	4	T017S	R035E	530	4750	OIL	19390731
30025238540000	TEXACO	STATE N	9	T0175	R035E	930	6250	DIL	19711014
30025209580000	TEXACO	STATE OF N	2	T0178	R035E	\$30	6250	DIL	19640624
30025209410000	TEXACO	STATE OF N	5	T0175	R035E	S 30	68 63	OIL	19640414
30025209420000	TEXACO	STATE OF N	ō.	TG175	R035E	530	10300	3 0IL	19640713
30025209430000	TEXACO	STATE OF N	7	T017S	R035E	930	6850	DIL	19640607
30025209440000	TEXACO	STATE OF N	8	T0175	R035E	930	10300	DIL	19641121
300250 29 500 00 0	TWIN GIL	STATE D	1	10175	R035E	530	4700	DIL	19390427

P&A'D WELLS WITHIN 1/2 MILE

MOBIL PRODUCING TEXAS & NEW MEXICO Bridges State #17 Unit A Sec 25 TITS 134E

PRESENT

10 sles surface ent plus, 0-20' 103/4" 40 16/ft csg set to 825' w/225 sks inticire I Contritainu e 940' = squeeze holes @ 100 circ w/2505ks + lo sks on 11-sines TOC @ 2664' (calc) Contretainer set@ 3988 Squeezed OH w/2005Ks + 65ks on retainer Retrievable pis 7" 24 16/ft c3g set to 4200 W/ 210 sks left in hole 4170 01 San Andres Perts OH 4200-4748'

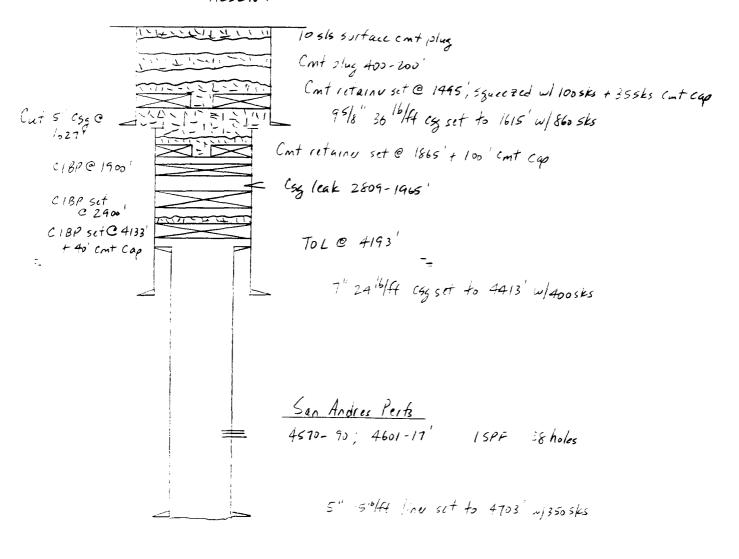
> TA: 4153 18TO: 4748

Cuper

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

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

PRESENT



TD: 4706'

Mobil P&A'd. 3-6-29

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State # 11
1950' FNL & 1978.5' FWL
Unit F Sec 25 TITS R34E Lea County, NM

PRESENT

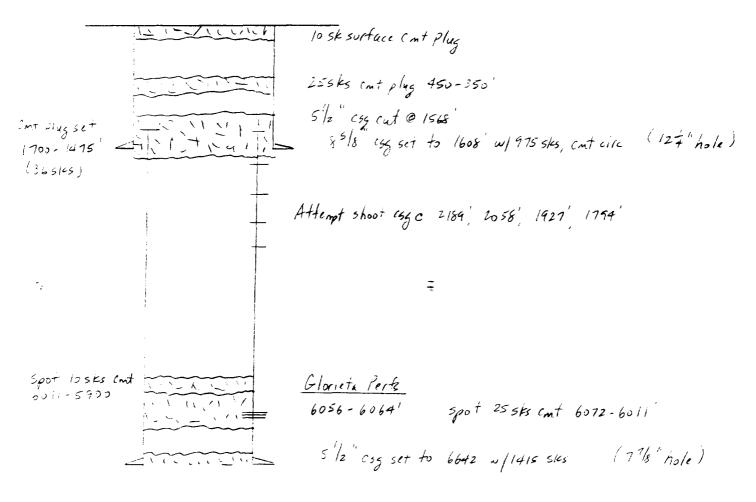
= 103/4" 32 75 6/ft cog set to 520 m/ 2105/cs Spot 125465 Cmt play 1013-700 7" cy shot @ 1013 (unable to get thy thru) K-55 C5g set to 1005 N/225 sks 7" 24 off 15% set to 4150 N/2105KS CIBP set @ 6350 + losks cap Blinebry Perts 6412-6563 20 holes Spot 40 545 (mt plug 6570-6350 4/2 7.5 °/4+ C5g set +, 0800 NJ 415 565 Circ

> 73: 560 38 70: 6770'

Completed as monitor well whelvet gauge jet no perts - completion requested by DCD)

MOBIL PRODUCING TEXAS & NEW MEXICO
Bridges State #115
900' FNL & 990' FEL
Unit A Sec 25 T175 R34E

PRESENT



TD: 6242'

F\$A'd. 2-19-80

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

PRESENT

| 103/4" cg sct to 821' w/225 sks, cmtcirc (12/4"hole)

Squeeze holes 0 1000' + retainu c 940', circ w/3305ks + cmtcape

Cmt plus (105ks) spot 2800-2700'

Calc 70C@ 2937'

Cnt retainu set @ 4180', Squeezed OH w/1405ks + 55k cap

51/2" cg set to 4365' w/225 sks (71/8"hole)

San Andres Perts

Perm pkr left in OH section

> 70. 4740' P370. 4696'

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

Mobil Producting TEXAS & NEW MEXICO Bridges State #73. Unit G Sec 13 T175 R34E

PRESENT

| 10 3/4" cys set to 827' w/2505ks

Squeeze holes c 1000', cmtrete 930', circ v/3355ks + 55ks cap

Cmt plus (155ks) 2825=2680'

Calc Toco ± 3100'

Cmt retains set C 4183', squeezed OH w/1405ks + 56k cap

5 1/2" css set to 4393' w/2105ks

San Andres Perh

OH 4393-4763'

Mobil PZA'd: 2-22-78

TO: 4763' PSTA: 4732'

DGE 6-4-90

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

TD: 6280

PRESENT 10 sk suface cut plus ent retainer @ 85/8" csy set to 1689' w/ 850 sks. cont circ (124" hole) 1680" + 1005K Cont plux 1680 - 1362' 50 SK CM+ plus 3100 - 2870' Toc by temp survey c 3000', cut 42' c5g c 3000' San Andres Perts 4822, 24, 26,27 50 sk cont plus 4952 - 4350 4 1/2" C55 set to 4952 w/350 sks (7 1/8"hole) 5950'- PBTA Initial PZA: 2-4-65

Hardin-Houston PiA: 2-4-65
Hardin-Houston PiA: 3-3-81
(re-entered to dissolve salt to
produce wrine for sale)

TEXACO State N#9 980' FNL & 913' FUL Unit D Sec 30 TITS R3SE

Intralia 35 sks surface plus

PRESENT

85/8" 29 16/ft csg set to 1650', cnt w/ 700 sks, cnt cire
35 5/k cnt plug 1650-1560'

Cut 42" CSG @ 2671', spot 35 sks cmt plug 2690- 2590'

Ę

CIBP set@ 6074 + 354 cmt cap

Glorieta Perts
6094, 95; 6104, 29, 49, 51, 54, 57, 61, 65' 25PF
4 1/2" Cog set to 6250', cont w/ 1100 sks

TO: 6250'

P\$A'd: 8-27-74

P&A-U WELL WI	ITHIN UNE-HALF		Pfa
FIELD VACUUM (G. SA)	RATURE L	Cil Cong	
	WELL NO L	CATION	
Bridges- State	59	L. Sec.	3, TITE, REAF
•	•		•
		·	
Set P& A Mark	r		·
MIN 20.11.4/11 Spot-10-5x-Cerne	nt To Such		
	•	e.	
			7.32.
			•
103/4" casing set a	at 829 'w	ith 250 sx o	of cement
Hole size 12/4"			
Spot 50 9x-Cem	entre cost as	301 .	Cament circ (Cak
-shet 7" Casing	at 888	50	
- Attempt shoot 7" czy @ 1198'			
· 1			
Cement_Top : 2	737' "(Cal	.)	•
	. O. 7		
14 11	·		
		·	•
4			
H F			
Spot 2 bbl. Cemen	t		
Set Cement - Ret 4		•	
7 " casing set a		ith 224 or a	ef coment
Hole size 83/4"			cement.
			•
San Andres Perfs. OH 4345-4670'	<u>-</u>		
OH 4345-4670'	-		
3qzd. OH 4345-	4670 W/ 200_5	x Cement	
}			
\[\langle \l			
\.\.\.\/		•	
 		Mobil F	PA'L; 2-28-73
Total Depth 4670			

	··	DATE	1-23-89	WELL	NO. 232	LEASE	North Vacuum About	lait
•		FIELD	Vacuum Ale	- Marthe	LOCATIONS	A 25-17	30 519 FM 7 560 F	F.
			D.G. E/			Lea Count Gi Di	L 4010' F 4015' B 4026' O KB (16'AGL)	-
				PROPOS	ED WELLBOR	RE DIAGRAM	Į.	
590 5ks cmt 2100'- 8705'					20° 52.73 b - 20° 52.73 b - Wellbore cir. 100' cmt pla - 13° 48 b - 13° 48 b - 13° 48 b - 13° 48 b - 13° 8° 48 b - 13° 8° 48 b - 13° 8° 27-30 Not circ. circ cmt to 2/3° prod tog 1 8429-34,6 8429-34,6 8429-34,6 8429-34,6	HH csg set Let u gelled Let	(species) to 40' brine s' f to 415' w/400 sks, id, swedged open to 4 Top of 2"18" at 217 (sp set to 5000' w/2 o'): Squeezed bradenhe (c 8310') + 12 jt 2"18" 5- 17-81, 84-86, 88-92, 91 1 JSPF 42 holes 13-75, 17-79, 80-83, 86 1 JSPF 25 holes	15/8" Top 17: 1400 Sts. d.c. 1400 St

TD: 8750' 18 TD: 8705'

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

TEXACO New Mexico W State NCT-1 #1
660'FSL \$ 1980' FEL
Unit O Sec 13 T175 R34E

PRESENT

バランドノ

The design of the second of th

losk (90') surface cut plug

75/8" 26.4 1/14 cz set to 1655' w/ 3005/5 255/5 cmt plus set 1900 - 1675'

25 sks cont plus set @ 3000 - 2775'

52" 1716/ft set to 4348' w/ 2005ks

San Andres OH 4348-4650

P\$A'd: 6-11-86

TD: 4680'

255k cmt plus set @ 4347' - 4122'

TEXACO New Mexico State W NCT-1 #2
1980' FSL & 1980' FEL
Unit J Sec 13 T175 R34E

PRESENT

10 sks surface cont plug 85/8" 28 16/ft set to 1687' w/3005ks Squeeze holes @ 1710', squeezed w/ 500sts, cat circ (waterflow repair) 255ks cm+ plus 1921-1721 255ks cmt plag 3002 - 2802' Queen Perts = 3907-3912' ISPF Squeezed w/ 150sks cont CIBP set @ 4300' + 30' cmt cap 51/2" csq set to 4329 w/ 200 sks San Andres OH 4329 - 4700'

TO: 4700'

P\$A'd: 8-15-88

SHELL State C#1 1980' FSL \$ 660' FEL I Sec 24 TI75 R34E

PRESENT

Sosks cmt @ 420'

cmt retainue
1705'

50 sk surface plug

Cat plug (60 sks) 1020 - 775'

5'/2" Csg cut @ 960'

85/8" csg set to 1693', cat w/ 600 sks

Squeeze holes @ 1805', Squeezed w/ 1305ks cmt 500 sk cmt plug 2964-1820'

-

15 sk cmt plug @ 4200'

5 1/2" 14 16/ft csg set to 4350', cmt w/275 sks

San Andres

OH 4585-4690'

TJ: 4733

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

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

FIELD Vacuum Abo North LOCATION Jts-1175-R34E

13

Lea County, New Mexico

GL 4061'

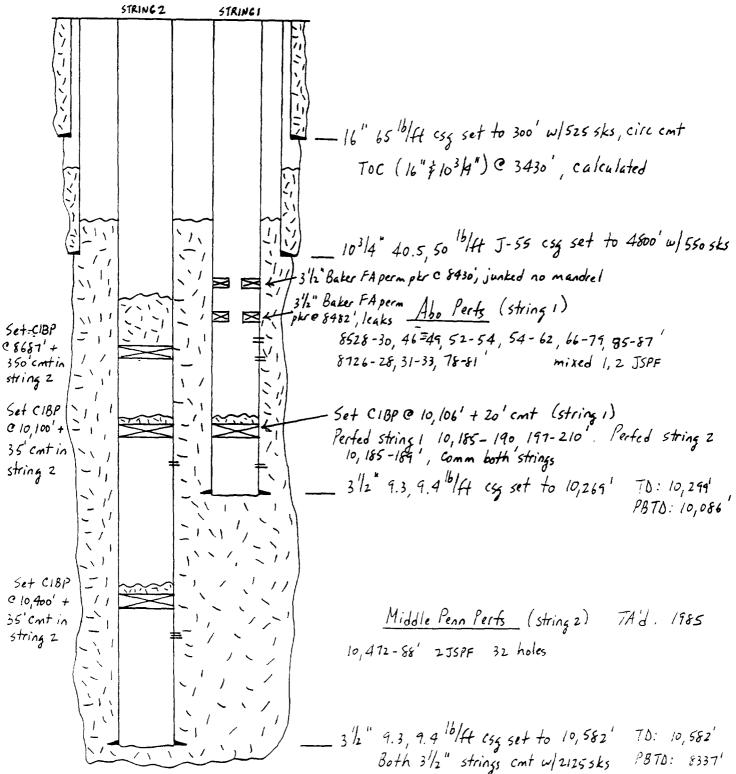
DF 4060'

KB 4041'

ZERO KB (14'AGL)

PRESENT WELLBORE DIAGRAM

STRING 2 STRING 1



Bridges State # 189

10 sks surface Cont plus

P&A' 1-89

BRADENHEAD SOZ W 400 SX CL. C + 2% Callz

25 sts contplux 498-202'

357' 85/8" 24 * K-55 ST+C CSG W/ 250 SX CL. C + 22 Cacl2+ 1/4 * FLOCELE/SX (CMT CIRC.)

585' BOTTOM OF CMT (TEMP SURVEY)

TOC 1030' (TEMP SURVEY)

30 sks cmt plus 2215-1948'

- wellbore circ w/ FW + NL Coat 1270 pkr fluid

Cz leak loc 2051 - 2066' CIBP set @ 3542' + 6465 cmt cap

squeeze holes @ 4140', Squeezed w/ 50 sts

5/12 Elder, Hydro Set

DE 12-30-88 -CIBP Set @ ±-

Tight spotin (5% c 4406-091

GRAYAURG - SAN ANDRES PERFS 4542 - 4546 1 55PF 5 HOLES 4572-4590 1 JSPF 19 HOLES

4741 PBTD

4750' 5/2" 14" K-55 ST+C CSG W/ 2200 SX CL. C CAT

TD-4750'

Mobil P\$A'd: 1-21-89

Field: Vacaure Glanhale	Date	10/19/	178	TIA Date 7/	76	L.
Liose: Bridge State	Wed≥No.	34	County 7574	te Lea. New	MEXICO	
Lecution : L-5 26-175-1316					KA ENU Jas'	

10 34 " 32.75 16 casing set at 837 w/ 217 sx Solt tope 1600' -'mt top @ 2800' -(calculated) - Salt Bose @ 3250 7 22 16 casing set at 4200 'w/ 217 sx TO 4744 PBTO E'4" hole

9.5 Mgal Perf 1,000-1,002 9.5 16/gal fluid 100' plug across sult buse (= 3300'-3) w/ 17 sx cont. 95 16/20 med laden fluid Emt Pat. @ 4100' Suner 2501 w/ 2605x "c" neut Mobil P + A'd; 2-12-79 updated

ILLEGIBLE

RDG 10/24/7

FIELD, Vacuum Grba San Andres	OPERATOR Mobil Oil	DATE 5-24-76
Bridges State		14-175-34E

77	10 sx plug	-
, Mud		
	• •	
	50 s x plug at 836' 103/4 " casing set at 336 ' with 250 sx of	
Much	Hole size _/2'/4- "	cement
123.4	_ 1160' Cut and pull 5/2" org	
Mud	2,985 Casing may be pained	
	2750 Calculated Cmi Fsp	
		•
	4,339' EZ Drill BP	
	5'/2 " casing set at 4375' with 210 sx of	cement
	note size	
	·	
	Mobil P\$A'd: 5-1-71	-
\		
	Total Depth 4772	

Set P& A-.Marker Spot 10 5x Cement To Surf. Spat 50 9x Cement - 757'- 885' 1094 " casing set at 835 ' with 250 sx of Coment Circ - shot casing at 1160' -Spot 35 9x Cement - 10931-1215' -Cement Top- 2480' (calc) Spot 2 bbl. Cement on Act. Cement Retainer - 4300' 5/2 " casing set at 4871 ' with 210 sx of Hole size ________" -sqzd. OH 4371'-4740 W/ 200 Sx Cement Mobil PAAd: 2-2-73 Total Depth 4740'

FIELD	OPERATOR	DATE
Vacuum (G-SA)	Mobil Oil Cor	0 5-76-76
LEASE	WELL NO LOCATION)
Dridges State		3 - Sec. 13 T179- 83
Criages State	60 E	2. Dec. 13. T173. R.B.

			-
	A	Set Pt A Marker	
77	1400 3 19 <u>0</u> 31 5	TT - Set 10 5x Cement To Surf	-
ļ		Spot 30 5x Cement at 380'	
	-S-: &-2.79	Puit 5 /2 casing To 330'	•
ļ.		Cement Top- 385' - Temp. Survey	
ŀ	相似		
		85/8" casing set at 1689 with 900 sx of	
9	i i	Hole size" Cament	cement
	4 14		21/ G :
	4		
	N H		
	19 13		
	0 13		
÷.	9 3		
	Mud		
	19 14		
	1	Spat 1 bol. Cement on Bet.	
	1	Set Cament Retainer - 4615'	
		5/2 " casing set at 4665 with 1950 sx of	cement
	{····}	Hole size"	•
	! • • • • • • • • • • • • • • • • • • •		
	{ : · · · }		
	{ }		
	{	Sqzd. OH 4665-4716 W/ 200 Sx Cement	•
	}:		
	\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	Mobil PzA'd: 2-15-73	
	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	1: 5:1	Total Depth 4716'	

ELD	Vac-	- (cas)	PERATOR	a Oil C		DATE 5-76-76
ASE	12:1	- Children		LOCATIO	N	Sec 13. T175-1
		V				AR IS, IUS,
•		Ola .a .w				
		Spet 10.9x Cen		260.		
िक्र			· · · · · · · · · · · · · · · · · · ·			
	9:					
		5/2" casing se		with	? 87	c ofc
	Но	ole size	_"		Came	inted -
					,	
	12		·			
	7 50	ot 35 5x Cam	nent - 1550'-	1650		
1		14 at 1595				irculated.
		casing set	t at 1600 '	with	? sx	
	но	le size	- "			comented
	•					
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						14 . 21 4 (1
	1					Mobil P\$Ad: 2-8-
	i,					
	e spot	GO Sx Cement	4200'-4450			
**	Liner :	Top 4258' Liner Cemente		ement		
其到	47	•			?	sx of
7	To	tal Depth 490		_ ~~~~		Gemented

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

FIELD Vacuum Grybg SA LOCATION Lea County, New Mexico

M Sec 23 TITS R34E

SIGNED D. G. Elwood

GL 4029'

DF 4039'

KB 4040'

ZERO KB (11'A64)

PROPOSED WELLBORE DIAGRAM

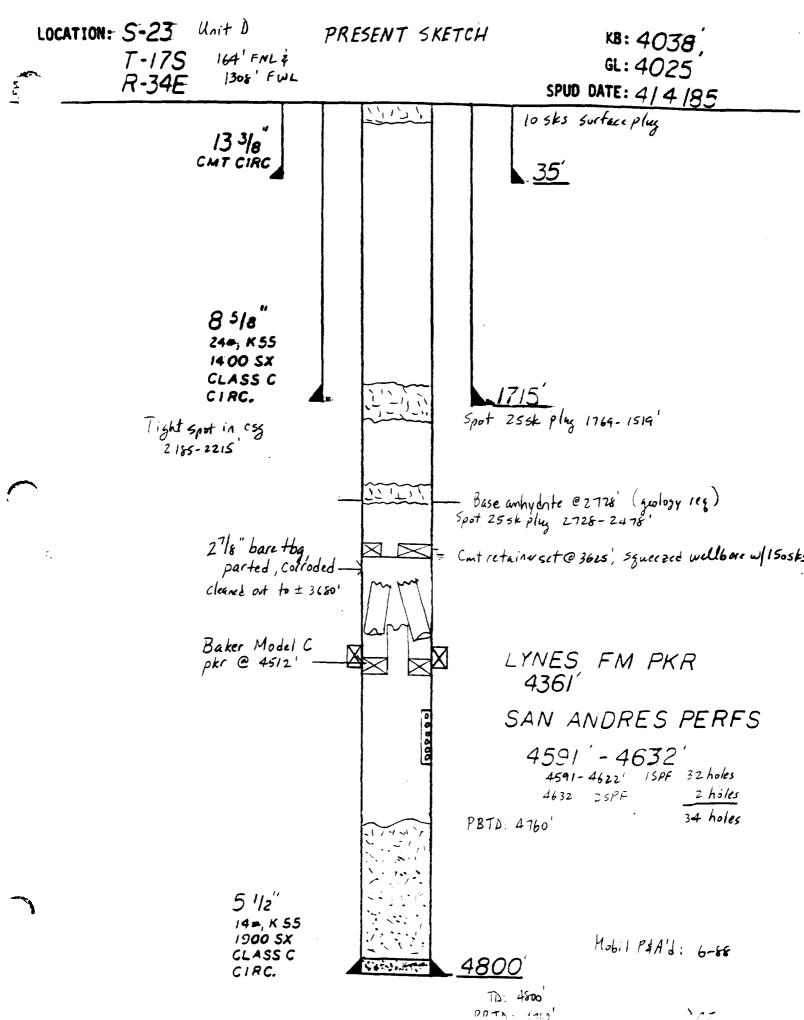
-10 sk cmt plag @ surface - Wellbore circ w/gelled brine Contretainer set @ 1436' + 13 sks (est Toc @ 1336') _ 8 5/8" 24 16/ft & 32 16/ft csg set to 1594" w/1075 sks, cmt circ -Perf @ 1654' 25PF, squeezed w/350 sks, circ to surface TOC (behind 5'h" csg) @ 2450' (temp survey) CIBP set C 4483 + 12 sks cmt San Andres Perfs 4563-71, 15-81, 4592-4600 25PF 44 holes __ 51/2" 15.5, 17, 20 "Ht csg set to 4700" w/515 sks

> TD: 4700' PBTD: 4656'

Mobil P\$A'd: 3-8-89

DATE 7-7-86 WELT	NO. 29 LEASE B	ridges State FI	ELD Vacuum GBG
660' FSL \$ 660' FWL Lea County, NM		D.A. Howell	G.L. <u>4037</u> D.F. K.B. ZERO
V	10 34", 36# CSG @ 8 — 4 New Shot hole - CSG Break @ 10. Spot 50sx on botton	25 @ 838' + Circ, 3. 35'	AT +55 or Aquage/ 50 sx (Circ.)
1050' —			**************************************
Cal	le. TOC 2375'		
	7"RBP Set@ 415 7",24# CSG @ 4		sx + 7 sx Aguage 1
		Mobil Pia'd: 10-7-	- 86
TD 4850'	•		

BRIDGES STATE 195



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

FIELD Vacuum Gryby San And. LOCATION J Sec 14 T175 R34 E 180' FSL & 1860' FEL

Lea County, NM

SIGNED DF 4043'

KB 4042'
ZERO KB (12'AGL)

PROPOSED WELLBORE DIAGRAM

60' suiface cont plug 100' cmt plug inside 7", across 103/4 "shoe, TOC @790'
103/4" csy set to 837 w/ 250 sks, cmt circ
Cmt retainer @ 1/430', squeece csg w/ 100 sks retainer 5de 1081 Circ 280sts Squeeze holes perfed 1750-52' 45PF circ 105ks behind cg + 150' cmt plug in csg the lat @10871 calculated TOC behind 7"@ 2737' CIBP set @ 4250' + 35 'cm+ cap 7" csg set to 4347 w/ 220 sks Grayburg San Andres Open hole 4347-4109'

Mobil P\$A'1: 0-89

TD: 4709'

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally America Hess Corp)
State VA # 1
Unit N Sec 23 T 175 R 34E
660'FSL & 1980'FWL Lea Gunty NM

PRESENT

Contrictains set e 766; circ 1155ks thru perfe e 824 + 125k cap

75/8 26/6/ft c5g set to 500' w/3005ks, circ

Squeezed 2006ks thru perfs e 975', Toc by temp survey e 660'

Contrictains e

1872'

Squeezed 5005ks thru perfs e 2643-45' + 3855ks + 55k cap

Squeezed 1505ks thru perfs e 2643-45' + 3855ks + 55k cap

Squeezed 1505ks thru perfs 2878-2850'

Toce 2920' (by TBL) PRIMARY

CIBP set e 4212' + 255k cap

5'/2" 17/6/ft cyset to 43/1' w/2005ks

San Andres Perfs

OH 43/7-4740'

TD: 4740 13 TD: 4740

Amerada PEA'd:

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amerada Hess Corp)
State VA # 2
Unit L Sec 23 T175 R 34E Lea County, NM

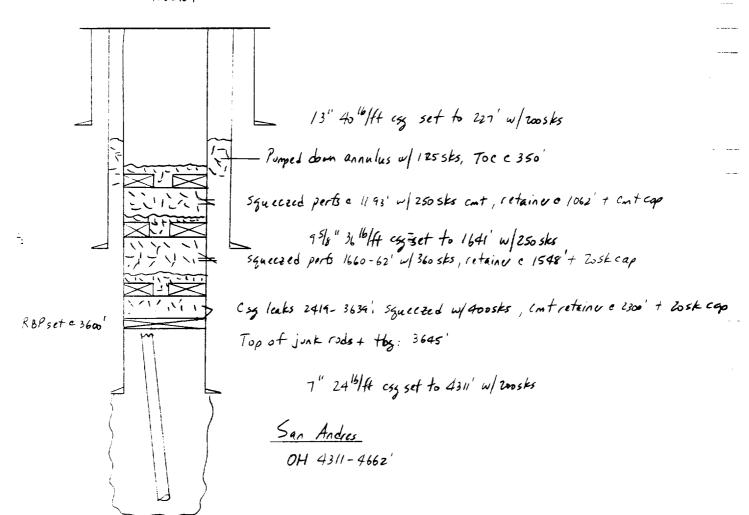
| 15 sks surface plug | 103/4" csg set to 251' w | 200 sks, circ | 75/8" csg set to 1631' w | 250 sks | 5guezzed 210 sks c perf c 1675' | Cmt plug 1700-1450' (25 sks) | Cmt plug 2987-2736' (25 sks) | = 51/2" csg set to 4316' w | 200 sks | San Andres OH 4316-4671'

TD: 4671

Amerada PEA'd: 9-29-82

MOBIL PRODUCING TEXAS & NEW MEXICO
(formally Amenda Hess Corp)
State VA #3
Unit K See 23 T 175 R34E 1980' FSL & 1980' FWL
Lea County, NM

PRESENT



TD: 4662'
PBTD: 4662'

Amerada 1e-P\$A'J: 6-19-80

	DATE	4-26-9	· u	VELL N	102	LEASE	Bridge	State	
		Vacuum			LOCATION	Unit 0 S	ec 14 TI	75 R 34E	660'FSL \$ 1980'
		D 16			·	Lea Courty G	, NM L 4034 F 4044 B 4050		-
				PROPO	SEO WELLBOR	RE DIAGRAM) -		
			₩ N N N N N N N N N N N N N N N N N N N	がしいじて	(Vellbo)	o.s ^{lb} lft cyse 1900'	do brine l 60', cmt cross types	t cin	shoe; 7"shb- 46 cmt circ
					Kat Bosk plu		\ @ -	· 20 ee 1	
hole C 3976'				アルバン	TOL C	4156' (No	fuccee 15 temp survey	1055 To sks into la Ty, est BOC C 15 sks (est	± 4375')
473			11		150 sks c	nt plus 4090	- 4630	(± 45 sks	in cg, ± 105 sks in OH & formation
			コーシー		San	Andres Inje 4574-4630'			IN OFF & TWINKING
4554'					5" 15 line	Iff linuset top (est	C 4574 ho	ω/ 300 sks + /e)	200sks over
	1			12/		only tacked			
	`	1/2	4	1//				Mobil PiAld:	5-9-90

TA: 4715' PBTA: 463

MOBIL PRODUCING TEXAS & NEW MEXICO Bridges State #69 Unit F Sec 13 T175 R34E 1980' FNL & 1980' FWL Lea County, NM

PRESENT

15 sts surface plus 1034" Cx set to 822' w/ 250sks circ Cont plux 1050-700' Cx cut @ 1100', cont plux (605ks) 1150-1050' Cont plux (155ks) 1841-1600' (mt plug (155ks) 2600-2460' Calc Toc @ 3/93 Cont plus (15 sks) 4270- 4120' CIBP set @ 4306' + 35'cm+ cap 5 1/2" csg set to 4392' w/ 210 sts San Andres Perts OH 4392 - 4706' Mobil PZA'd: 3-2-90

TD: 4706' PBTD: 4706'

DGE 6-1-90

HOBIL	PROL	XUCIN6	TEXAS	\$ NEW	HEX160
	Bridge	ges Stad	e# 45		
Uni	<i>+</i>)	Sec 13	T/15	R 34E	
		County			

PRESENT

103/4" csg set to w/ sks, cmt plug (505ks), 863-753

Cz cut c 1194' (attempts c 1974, 1683, 1505'), cmt cqo 1250-1020'

Cmt plus 1800-1625' (355ks)

Controtainer set @ 4338', squeezed OH w/1506ks + 55k cqp 7" cs set to 4394 w/ sks

Mobil P&A'd 1-17-73

TD: 4720 PBTD: 4720

DGE 6-1-90

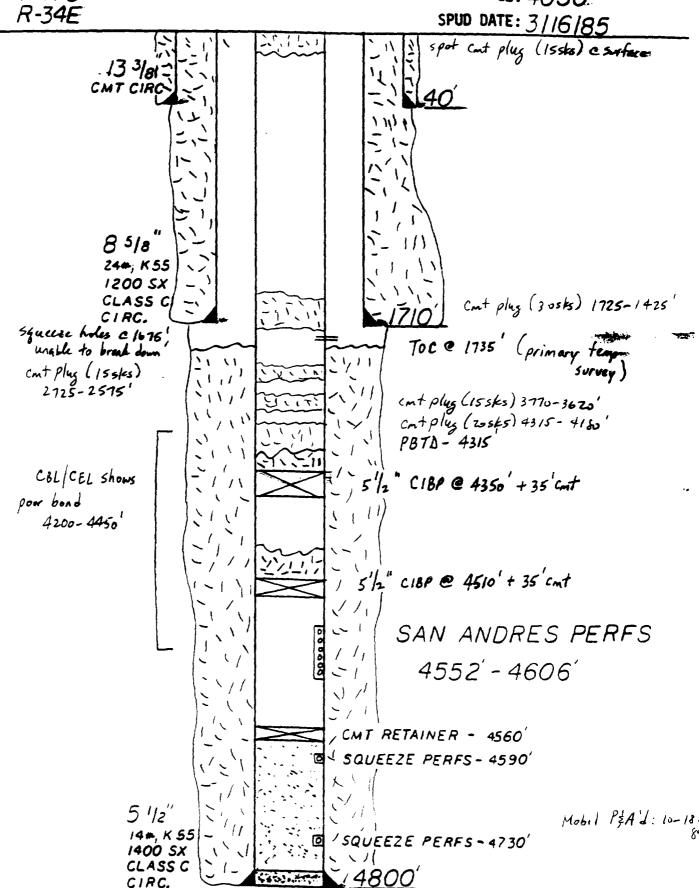
LOCATION: S-23

T-17S

PRESENT DIAGRAM

KB: 4042

GL: 4030



TD: 4800' PBTA: 4315'

Date

6/15/90 | Well No.

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

County

ALL EICATION FOR MOET

١١	Note: this is a proposed future drill well.			
2)	See application to downhole commingle Glorieta	&	Blinebry	zones.

Operator

Mobil

Box 633, Midland, TX 7	9702	Leas North Vacuum Abo Unit	Well No.
l late	ction	Bridges State	Range
of Well F	25	175	34E
. Has the New Mexico Oil Conservation zones within one mile of the subject		V	f a well in these same pools or in the same
. If answer is yes, identify one such i	nstance: Order No	; Operator Lease, a	nd Well No.:
. The following facts are submitted:	Upper Zone	Intermediate Zone	La wer Zone
a. Name of Pool and Formation Va	duum Grayburg/Sa	an Andres <mark>Vacuum</mark> 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 Injectio	on Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection
. The following are attached. (Please	check YES or NO)		
izers and/or turboliz diameters and settin X	ters and location thereog depth, location and ty cation of all wells on a eases offsetting applica- to such multiple comple- ished copies of the app well or other acceptab- such log is not available	of, quantities used and top of cement, pype of packers and side door chokes, and pplicant's lease, all offset wells on ont's lease. etion from each offset operator, or in libication.* ble log with tops and bottoms of productions.	ding diameters and setting depths, contral- erforated intervals, tubing strings, including such other information as may be pertinent. If set leases, and the names and addresses the thereof, evidence that said offset opera- noting zones and intervals of perforation in- full be submitted as provided by Rule 112-A.) ing address.
6. Were all operators listed in Item 5 date of such notification 6/15/ CERTIFICATE: I, the undersigned Mobil Producing Texas & New Mexicunder my supervision and direction and	90 En, state that I am the Lo	evironmental, Regulatory ess Prevention Supervisor of m authorized by said company to make t	Mobil Exploration & Producing US Inc. the As Agent for Mobil Producing TX & New Mexico Inc. his report; and that this report was prepared
sion will hold the application for a p	eriod of twenty (20) day	oplication for administrative approval, is from date of receipt by the Commiss the Santa Fe office, the application wi	the New Mexico Oil Conservation Commis- ion's Santa Fe office. If, after said twenty- ll then be processed.

NOTE: If the proposed multiple completion will result in an enorthodox well location and/or a non-standard proration unit in compount 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	IPACE Reider State
FIELD Vacuum Glorieta Blineby, + LOCATION	
Grayburg / San Andres	Lea County NM
SIGNED A G Elwood	GL <u>NA</u> DF
PROPOSED DIAGRAM	KB ZERO
(TO BE DRILLED)	
Baker Mode Grayburg San 4444-5923 (PERFS To B Farm pks set Glarieta Per- 5923-6303' (PERFS To BE Blinebry Pert 6303-7300' (PERFS To BE	E DETERMINED) G± 5900' + 23/8" J-55 bare the PROPOSED Atterval DETERMINED) For ± 6400', cm+ circ

378 ± 6400'

NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW-MEXICO APPLICATION FORMSETTPE COMPETION

his is a proposed future drill well.

rator		County	Date
Mobil Exploration & Prod	ucing U.S. Inc.	Lea	6/15/90
ress		LeaseNorth Vacuum Abo Unit	Well No.
	702	Bridges State	602
eation Unit Sect	25 To	wnshir 17S	Range
Well D			3 4 E
zones within one mile of the subject of the subject of the such in the such in	weil? YES	NO X	f a well in these same pools or in the s
The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation Va	cuum Grayburg/San/		Vacuum Blinebry
b. Top and Bottom of			
Pay Section	* 4444-5923 '	5923-6303'	6303-7300'
(Perforations)			
c. Type of production (Oil or Gas)	Water Injection	Water Injection	Water Injection
d. Method of Production (Flowing or Artificial Lift)	Injection	Injection	Injection
The following are attached. (Please of	heck VFS or NO)		
c. Waivers consenting to	ses offsetting applicant's a such multiple completion hed copies of the applica	cant's lease, all offset wells on o lease. In from each offset operator, or in lition.*	such other information as may be pertin ffset leases, and the names and address eu thereof, evidence that said offset op
of operators of all lea c. Waivers consenting to tors have been furnis d. Electrical log of the dicated thereon. (If su	ses offsetting applicant's a such multiple completion hed copies of the application well or other acceptable such log is not available at	cant's lease, all offset wells on o lease. In from each offset operator, or in listion.* log with tops and bottoms of producthe time application is filed it sha	ffset leases, and the names and addre- eu thereof, evidence that said offset of scing zones and intervals of perforation all be submitted as provided by Rule 11
of operators of all lea X c. Waivers consenting to tors have been furnis A d. Electrical log of the dicated thereon. (If so	ses offsetting applicant's a such multiple completion hed copies of the application well or other acceptable such log is not available at	cant's lease, all offset wells on o lease. In from each offset operator, or in listion.* log with tops and bottoms of producthe time application is filed it sha	ffset leases, and the names and addre- eu thereof, evidence that said offset of scing zones and intervals of perforationally be submitted as provided by Rule 11
of operators of all leax c. Waivers consenting to tors have been furnis d. Electrical log of the dicated thereon. (If so List all offset operators to the lease See attached list Were all operators listed in Item 5 and date of such notification 6/15/9 CERTIFICATE: 1, the undersigned,	ses offsetting applicant's a such multiple completion hed copies of the applicant well or other acceptable such log is not available at on which this well is located on which the well is located on which the well is located on which the well is located on which this well is located on which the well with the well is located on which the well with	cant's lease, all offset wells on o lease. In from each offset operator, or in listion.* Illog with tops and bottoms of producthe time application is filed it shaded together with their correct mail of a copy of this application? YES onmental, Regulatory Prevention Supervisor of athorized by said company to make to the said company to	ffset leases, and the names and address the second common

'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.

		str. NM
SIGNED	DF	
	PROPOSED DIAGRAM (To BE DRILLED)	
	John John Serm John John John John John John John John	
	5923 - 6303' interval	
	(PERFS TO BE BETERMINED)	
	ETENTS TO BE SETENTIMENT	
	Blinebry Perfs 6303-7300'	

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

Martin Water Laboratories Inc.

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1046

RESULT OF WATER ANALYSES

LABORATORY NO. -

700-W: MEAGEN: MIDLAND: YENGG/7000: PHONE COUNTY:

590306

	SAMPLE RECEIVED RESULTS REPORTE	<u>6−1−90</u>	JUN 0	4-199
. -	. Central NVA	Station	0011 0	7 156
Vacuum	CENETAL NAM	Deacton	MIDLAND PROD	FNC
	Lea s	TATE NIM		
COUNTY		1 A 1 E	*	
w water line	5-29-90			
water iine	. 3 23 30			-
				
om Elrod. Ma	rtin Water Lab	s. Inc.		
AND PHYSICAL	PROPERTIES			
NO. 1	NO. 2	NO. 3	NO.4	
1.0018				
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f recommenda	ation attached.			4
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	Vacuum. COUNTY — W water line No. 1 1.0018 8.39 185 4 —— 256 83 12 49 39 104 0.25 479 2.0 0.0 15.18 NONE NONE Reported As Millign	LEASE Central NVA Vacuum Lea S	LEASE Central NVA Station Vacuum Lea STATE NM	LEASE Central NVA Station Wachum MidLand PROD

Form No. 3

Waylan C. Martin, M.A.

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

RESULT OF WATER ANALYSES

To: Ms. Donna Ellwood P.O. Box 633, Midland, Texas	LABORATORY NO SAMPLE RECEIVED RESULTS REPORTE	5-29-90
	LEASE Bridges Sta	ate
FIELD OR POOL		
SECTION BLOCK SURVEY	_ COUNTY Lea s	TATE NM
SOURCE OF SAMPLE AND DATE TAKEN:		
NO. 1 Produced water - taken from B	ridges State #13. 5-29-9	90
NO. 2 Produced water - taken from B	ridges State #27. 5-29-	90
Produced water - taken from B	ridges State #58. 5-29-9	90
No. 4 Produced water - taken from E	ridges State #102. 5-29	-90

bs, Inc

MARKS: 1 & 2 Blinebry 3 & 4 Glor	ND PHYSICAL P	ROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1081	1.1477	1.1410	1.1352
oH When Sampled				
oH When Received	7.10	7.30	7.59	7.45
Bicarbonate as HCO3	366	415	476	439
Superseturation as CaCO3	90	20	70	100
Undersaturation as CaCO3				
Total Hardness as CaCO3	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 SO4	573	2,780	3,124	3,009
Chloride as CI	102,267	142,038	134,936	129,255
ron 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	0.05
Suspended Oil				
Filtrable Solids as mg/				
Volume Filtered, mi				
alcium Carbonate Scaling Tendency	MODERATE	NONE	MARGINAL	MODERATE
alcium Sulfate Scaling Tendency	NONE	SEVERE	NONE	NONE
		<u> </u>		L
	eported As Milligram	s Per Liter	· · · · · · · · · · · · · · · · · · ·	
Additional Determinations And Remarks	··			
			·····	
				· · · · · · · · · · · · · · · · · · ·
				

Form No. 3

709 W: INDIAMA: MIDLAND: TEXAS.79701 PHONE 688-4521

RESULT OF WATER ANALYSES

To: Ms. Donna Ellwood P.O. Box 633, Midland, Texas	SAMPLE RECEIVED 5-29-90 RESULTS REPORTED 6-1-90
COMPANY MEPUS	SE 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 Sta	te #103. 5-29-90
NO. 2 Produced water - taken from Bridges Sta	
NO. 3 Produced water - taken from Bridges Sta	

MARKS:	Glorieta			
كالماكات المستحي والمستحين	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 HCO3	512	512	403	
Supersaturation as CaCO3	90	50	50	
Undersaturation as CaCO3				
Total Hardness as CaCO3	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 SO4	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/j				
Volume Filtered, ml				
alcium Carbonate Scaling Tendency	MILD	NONE	NONE	
alcium carbonate scaring rendency		NONE	NONE	
alcium Sulfate Scaling Tendency	NONE	NONE	NONE	
	NONE	NONE	NONE	
alcium Sulfate Scaling Tendency Results	Reported As Milligran	ns Per Liter	NONE	
alcium Sulfate Scaling Tendency Results	Reported As Milligran		NONE	

Form No. 3

Waylan C. Martin, M.A.

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. 6. 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

16. N. Miller

Mobil Producing Texas & New Mexico, Inc.

Environmer Loss Phoye

Environmental & Regulatory, Loss Prevention Supervisor

JWD

attachments

cc: Oil Conservation Commission
 w/attachments

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	ll/wells for the	e purpos	e of: _S	econd ary	_		
2.	Well Name and Number:	Bridges State	109					
,	* Location: 1830 FWL;	610 FSL						
	* Section: 24	,T	175	,R_	34E			
	*County: Lea							
3.	Formation Name: Bline	bry and Gloriet	a					
	Injection Interval:	see below		to _				
	Maximum Injection Rat	e: see below						
	Maximum Pressure:	see b	elow					
4.	Interested parties, w		_		_			
	by this application, must file objections or requests for hearing							
	with the Energy and M	•						
	Division, P.O. Box 20	88, Santa Fe, N	lew Mexid	∞ 87501	within			
	15 days after this pu	<u>E</u>	WPD_	PSIG				
**	-Glorieta 5923-6303 Blinebry 6303-7300 8000-9272		200	1200 1200				

	79702 Attentions 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
•	*Iocation: 1190 FNL; 1260 FWL
,	*Section: 25 (Unit D) ,T 17S ,R 34E
,	* County: Lea
•	Formation Name: Grayburg-San Andres, Glorieta, Blinebry Injection Interval: See DeLow to Maximum Injection Rate: See below
	Maximum Pressure: See below
4.	Interested parties, who can show that they are adversely affect by this application, must file objections or requests for hear
	with the Energy and Minerals Department, Oil Conservation
	Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within
	15 days after this publication. Grayburg -San Andres - 4444-5923 BWPD PSIG 950

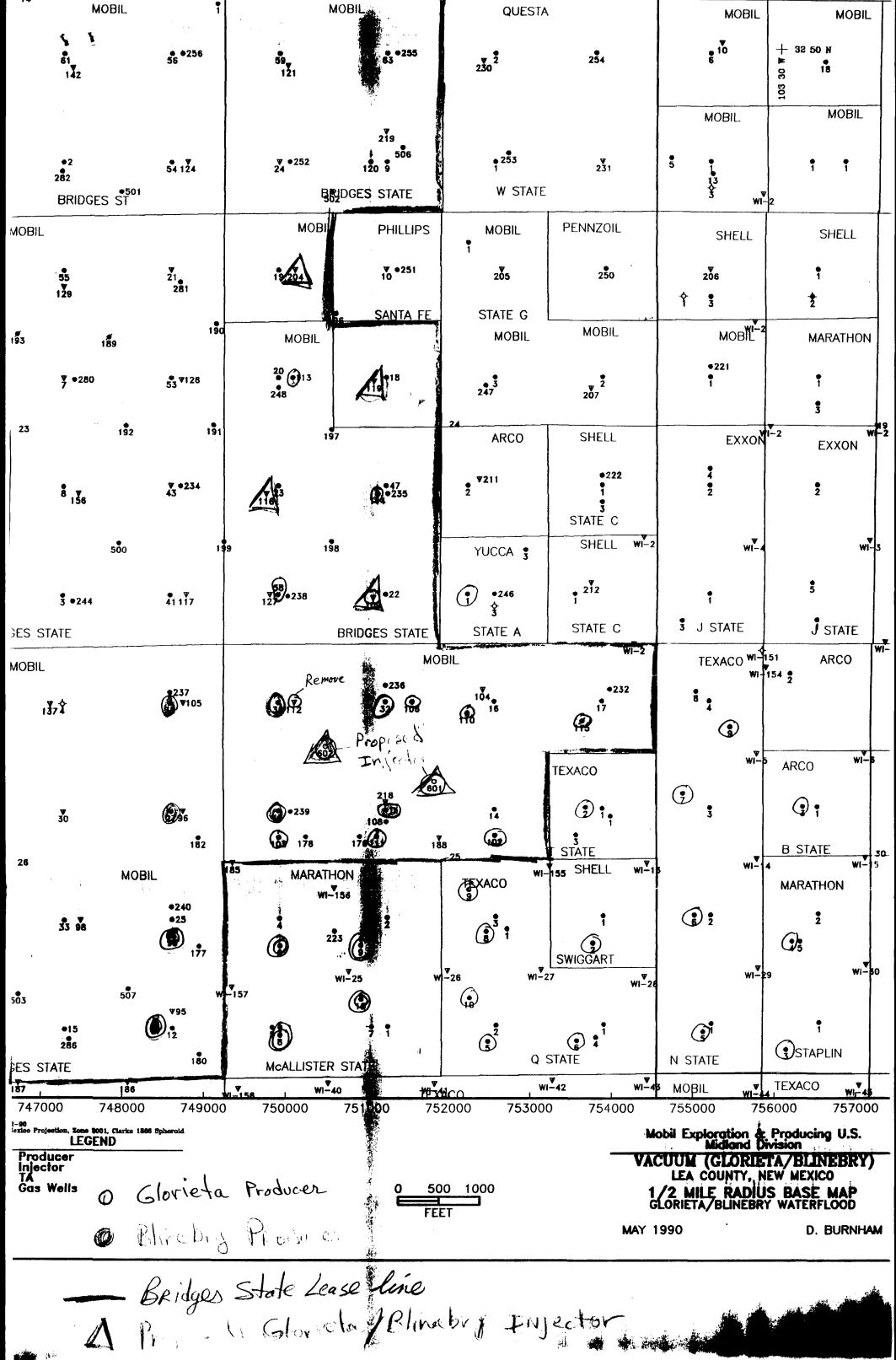
will apply for permission to inject Fresh Water							
•		ing well	/wells f	or the	purpose	of: S	econdary
Recov	ery						
Well Name	e and M	mber:	Bridges	State	601		
* Location			2600 FWL				
* Section:		(F)		,T	175	,R	34E
County:				.′ ~		/`	
Formation	n Inter	/al:	Graybu Glorie Blineb	rg-San ta ry	Andres	, Blinet - 4444 	5923 6303 7300
Maximum :			<u> </u>			·	
Interest	ed part:	les, who	can sho	w that	they ar	e adver	rsely affec
by this application, must file objections or requests for hear							
with the Energy and Minerals Department, Oil Conservation							

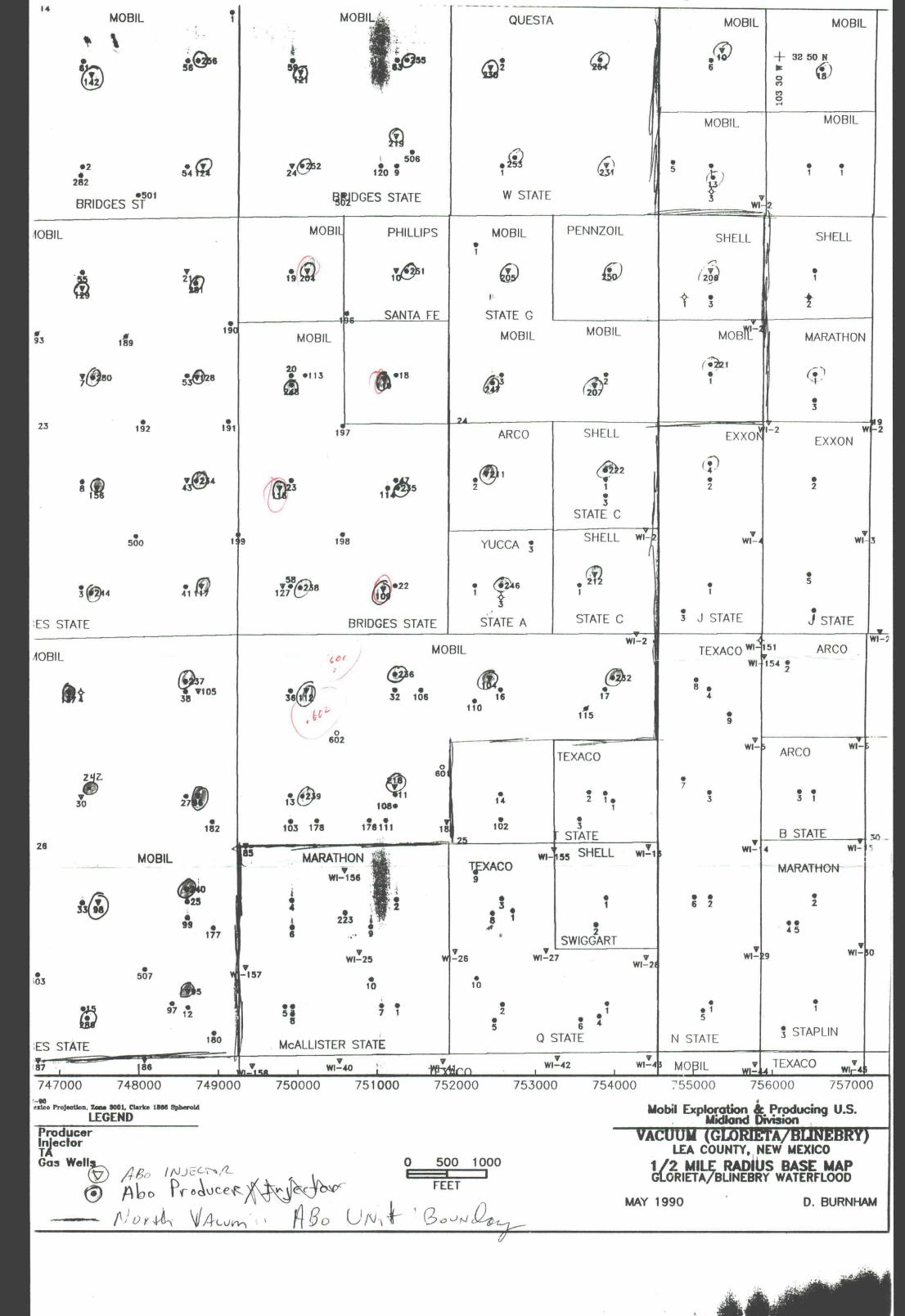
Glorieta 800 PSIG 1200
Blinebry 200 1200
Grayburg-San Andres 800 950

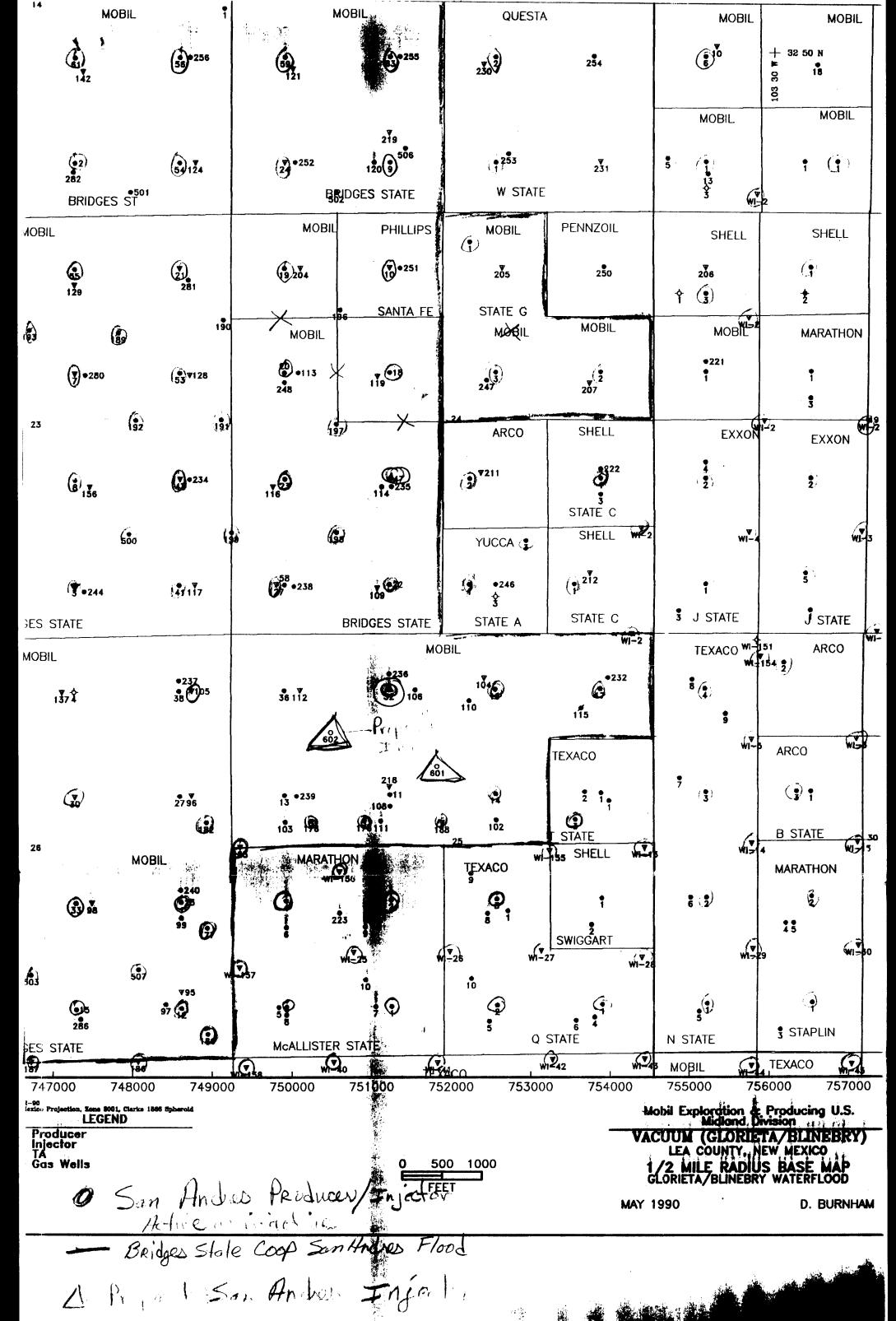
well/wells for	the purpose	of: Se	condary
		 	
r: Bridges Stat	e 119		
; 2030 FNL			
,T_	175	,R	34E
see below	· · · · · · · · · · · · · · · · · · ·	_ to _	
see	see below		
	Bridges States 2030 FNL T linebry and Glor see below Rate: see	Bridges State 119	inebry and Glorieta see below see below see below

79 702	ludy Divon			s, Midla	nd, Texas.
	Judy Dixon, for permission			later	
into the int	ollowing well/w	ells for ti	ne purpose	of: S	econdary
RECOVE	· J				
Well Name	and Number: Br	idges State	204		
	900 FWL; 660				
_		, ^T	175	.R	34E & 35E
County:			· · · · · · · · · · · · · · · · · · ·		
-		·		···········	
Formation	Name: Blineb	ry and Glor	rieta		, -
Injection	Interval:	see belo)W	_ to _	
	njection Rate:_				
	essure:				
		 :	 		
Interested	parties, who d	an show th	at they a	re adver	sely affect
by this a	oplication, must	: file obje	ctions or	request	ts for heari
with the	Chergy and Miner	als Depart	ment, Oil	Conserv	vation
Division,	P.O. Box 2088,	Santa Fe,	New Mexic	o 87501	within
15 days a	fter this public	cation.	Dete		
Glori	eta - 5923-6303 bry - 6303-7300	800 200	<u>PSIG</u> 1200 1200		

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 t	the purpose of	Secondary					
•	Recovery							
2.	Well Name and Number: Bridges Stat	e 116						
1	*Iocation: 510 FWL; 1880 FSL							
1	*Section: 24 ,T	175	,R 34E					
	*County: Lea							
3.	Formation Name: Blinebry and Glor	ieta						
	Injection Interval: see below							
·	Maximum Injection Rate: see below							
	. WY HIGH 17 2034721							
4.	Interested parties, who can show the	hat they are a	dversely affected					
	by this application, must file obj	ections or req	wests for hearing					
	with the Energy and Minerals Department, Oil Conservation							
	Division, P.O. Box 2088, Santa Fe,	New Mexico 87	501 within					
	15 days after this publication.							
	Glorieta - 5923-6303 Blinebry - 6303-7300	BWPD PSI 120 120 120	<u>0</u> 0					







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