

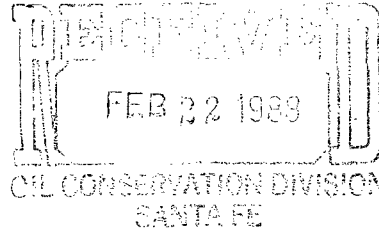
Mobil Exploration & Producing U.S. Inc.

February 19, 1988

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

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



Attention: Mr. William J. LeMay

7.01
EXCEPTION TO RULE 303(A)
BRIDGES STATE LEASE
WELL NO. 108
VACUUM UPPER PENN AND
VACUUM WOLFCAMP POOLS
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as agent for Mobil Producing Texas & New Mexico, Inc. (MPTM), requests administrative approval to downhole commingle oil production from the Vacuum Upper Penn and the Vacuum Wolfcamp Pools, in the subject well, located in Unit F, Section 25, T-17-S, R-34-E, Lea County, New Mexico.

The well is currently producing 34 BOPD and 55 BWPD from the Upper Penn. The Wolfcamp previously produced at a rate of 24 BOPD and 15 BWPD before being shut in in 1982 due to collapsed casing. The liner that was used to repair the wellbore made production from the Wolfcamp impossible due to reduced wellbore size. Only through downhole commingling can the added Wolfcamp production be realized.

The subject well meets all prerequisites for commingling, as set out in Rule 303(C). The ownership of these zones is common, and they have been successfully commingled on adjacent leases with no incompatibility of fluids found.

In support of this application, the following is submitted:

1. Location Plat;
2. Data sheet for both zones;
3. Computation of relative values for hydrocarbons;
4. Present and proposed wellbore sketches;
5. Well test curve and C-116 for the Upper Penn;

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6. History of Wellbore;
7. List of offset operators.

Although bottom hole pressure data is not available for these two zones, no crossflow is anticipated, since the common pump will keep fluid levels low. Upon completion of the Wolfcamp, allocation of production will be submitted with the potential test.

All offset operators have been notified of MPTM's request by copy of this application.

In conclusion, MPTM 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 call C. A. Moore at (915) 688-1772.

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

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

CAM/jlt

attachments

cc:NMOCD - Hobbs
Offset Operators

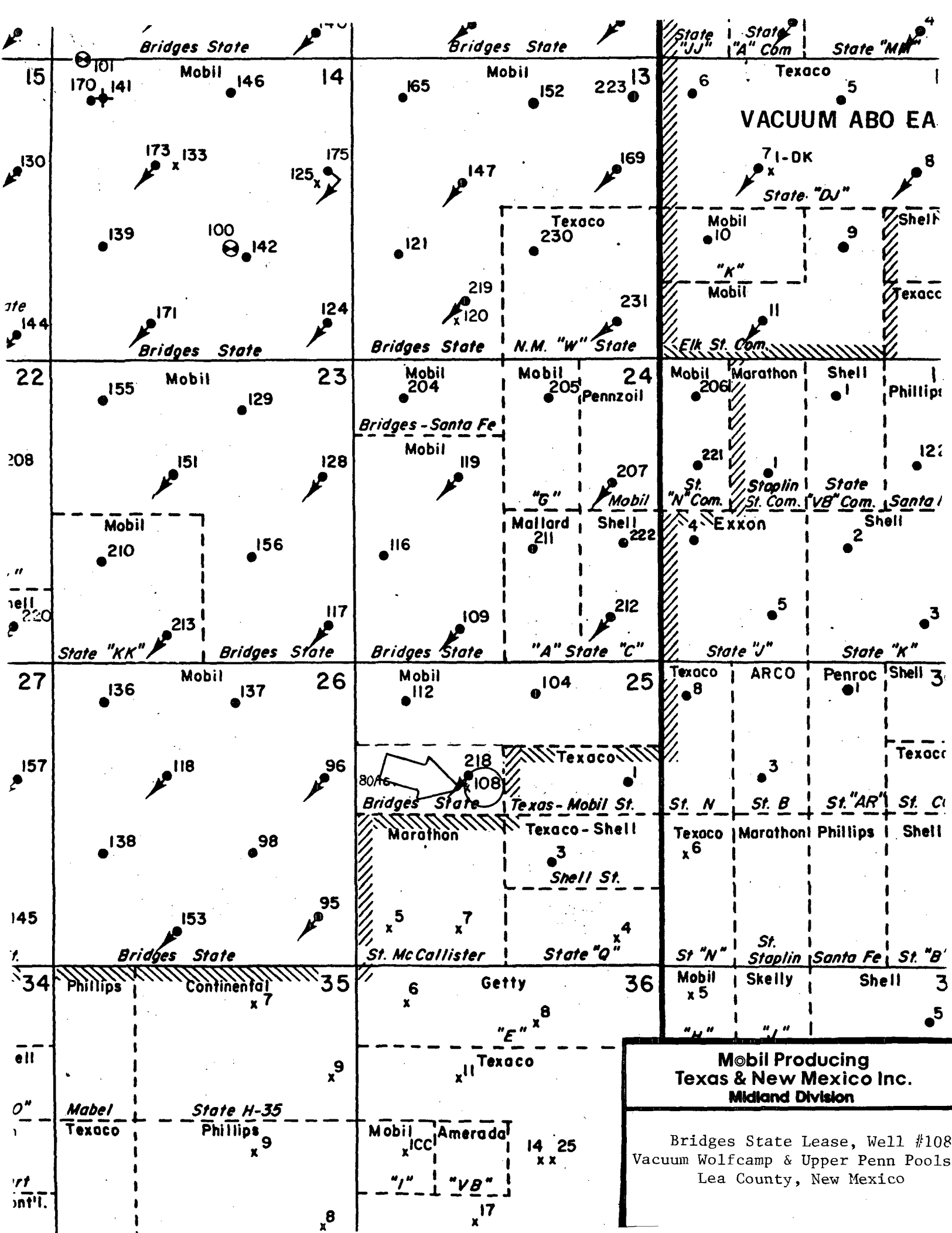


EXHIBIT "A"
DATA SHEET

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

1. Lease Name Bridges-State
2. Well No. 108
3. Well Location: Unit F, 2130 feet from North line,
1980 feet from West line of Section 25,
Township 17-S Range 34-E, Lea County,
New Mexico
4. Upper Zone Wolfcamp
5. Completion Interval Proposed @ 9528'-9943'
6. Lower Zone Pennsylvanian
7. Completion Interval 10,032'-10,062'
8. Current Productivity Test Summary

	Vacuum Wolfcamp (Upper Zone)	Vacuum Upper Penn (Lower Zone)
Producing Method	Proposed Valves	
Oil Bbl./day	Pump	Pump
Gas Mcf/day	<u>15</u>	<u>36</u>
Water Bbl./day	<u>100</u>	<u>0</u>
GOR	<u>1</u>	<u>53</u>
GOR Limit	<u>6667</u>	<u>0</u>
	<u>2000</u>	<u>2000</u>
9. Bottom-hole Pressure of Upper Zone	<u>Not Available</u>	
10. Bottom-hole Pressure of Lower Zone	<u>Not Available</u>	
11. Fluid Characteristics of Each Zone	<u>Both zones produce an</u> <u>intermediate sweet type crude. Expect no problems from the formation</u> <u>of untreatable precipitates in the commingled produced water.</u>	

EXHIBIT "B"

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

Lease and Well No. Bridges-State Well No. 108

	<u>UPPER POOL</u> <u>PROPOSED</u>	<u>LOWER POOL</u>	<u>COMMINGLED</u>
Pool Name	Vacuum Wolfcamp	Vacuum Upper Penn.	
Gravity, API	38.7	39.1	38.9
Selling price/BBL.	\$16.20	\$16.20	\$16.20
Daily Product/BBL.	0 (15) *	34	49
Daily Income	0 (\$243) *	\$550.80	\$793.80
TOTAL DAILY INCOME (POOLS SEPARATED) <u>\$ 550.80</u>			

Net difference realized from downhole commingling based on current well test=
\$243/day gain.

REMARKS:

*The Wolfcamp is inaccessible because the liner run to repair a casing leak
does not allow enough room to complete and produce the well through
conventional methods. Only through commingling can these additional
hydrocarbons be recovered.

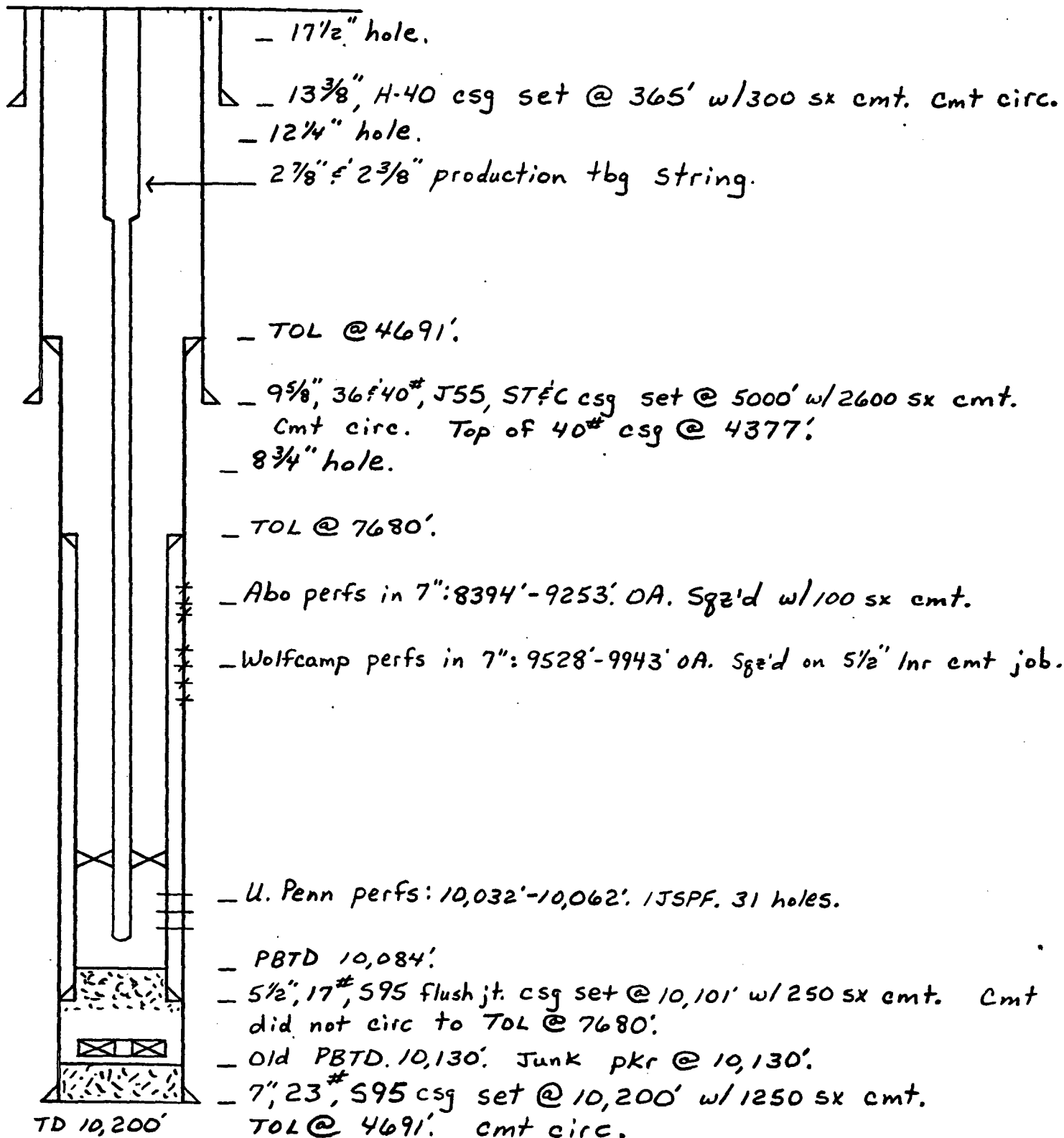
DATE 10/14/87 WELL NO. 108 LEASE Bridges State Field Vacuum

LOCATION 2130' FNL & 1980' FWL
F. Sec. 25, T17S, R34E
Lea County, NM

SIGNED R.W. Petty

G.L. 4002'
D.F. 4013'
K.B. 4014'
ZERO KB
12' AGL

PRESENT



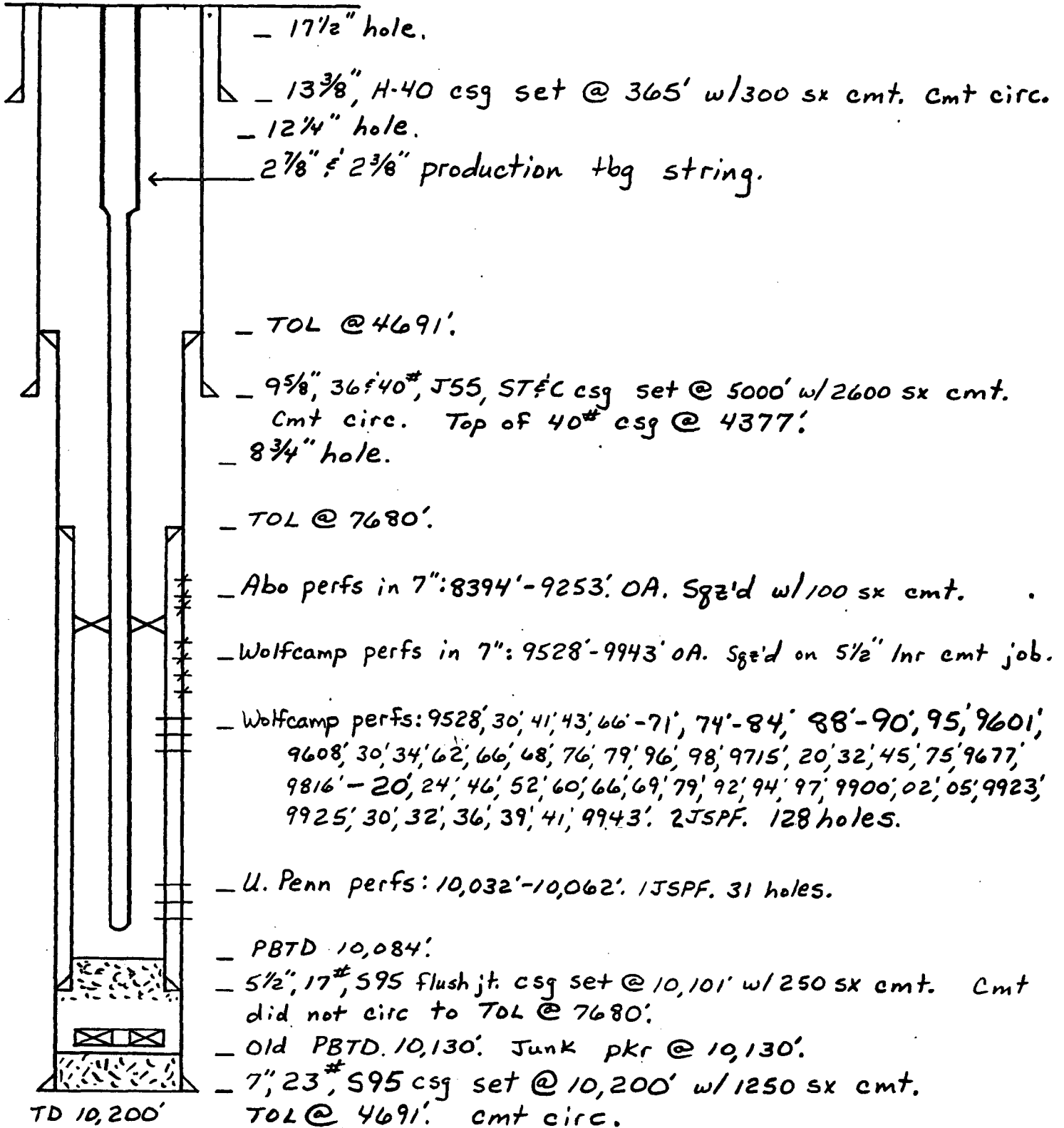
DATE 10/14/87 WELL NO. 108 LEASE Bridges State FIELD Vacuum

LOCATION 2130' FNL & 1980' FWL
F-Sec. 25, T17S, R34E
Lea County, NM

SIGNED R.W. Petty

G.L. 4002'
D.F. 4013'
K.B. 4014'
ZERO K8
12' AGL

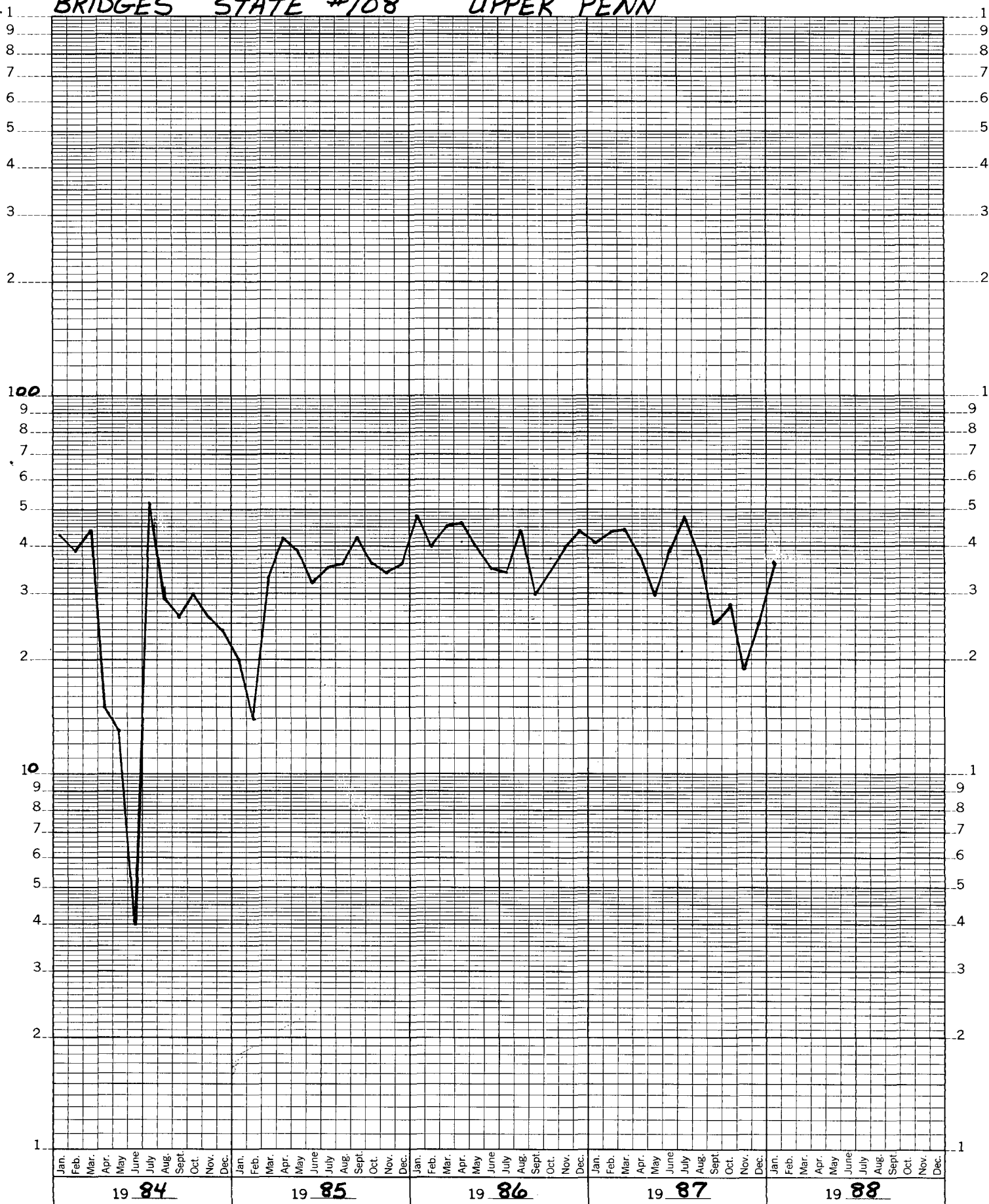
PROPOSED



BRIDGES STATE #108 UPPER PENN

46 6690

K⁺E 5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



C-110
Revised 1-1-93

The well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized by the Commission.

Gas volume must be reported in MCP measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.69.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 203 and appropriate local rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Nancy Lewis
(Signature)

Mobil Exploration & Producing U.S. Inc.
as agent for Mobil Producing TX & NM Inc.

(Time)

2-18-88

(Done)

RECEIVED

FEB 19 1988

ENV. & REG.

WELL HISTORY

LEASE Bridges State

WELL NO. 108 FIELD Vacuum U. Penn

10-18-65	Spudded.
12-27-65	TD 10,200'. PBTD 10,130'. Perf Wolfcamp 9846', 52', 60', 9866', 9869', 79', 92', 94', 97', 9900', 02', 05', 23', 25', 30', 32', 36', 9939', 9941' & 9943'. 1 SPF. 20 holes. Acidized w/ 1000 gal 15% NEA. BDTP 5300 [#] , TTP 4400 [#] , AIR 3 BPM, ISIP 2100 [#] , 5 min 1000 [#] .
12-28-65	NMOCD Pot: F 223 BNO + NO WTR / 24 hrs, CK 1 7/8", TP 600 [#] , GOR 1568/1, Gvty 38.9° @ 60°F. Wolfcamp.
12-29-65	Set RBP @ 9316'. Perf Abo 9165', 91', 9203', 06', 21', 9225', 9239', 41', 48', 9253'. 1 SPF. 10 holes.
12-30-65	Acidize Abo w/ 1000 gal 15% NEA. BDTP 5000 [#] , TTP 4600 [#] , AIR 2.4 BPM, ISIP 4100 [#] , 5 min 2900 [#] .
12-31-65	Acidize Abo w/ 3000 gal 15% NEA + 8 BS. TTP 3200-2800 [#] , AIR 3 BPM, ISIP 2800 [#] , 5 min 1800 [#] . Retrieve RBP.
1-8-66	Rig up for triple completion. Perf U. Penn 10,034', 10,037', 42', 44', 49', 51', 54', 10,057'. 1 SPF. 8 holes.
1-10-66	NMOCD Pot: U. Penn F 145 BNO + No wtr / 6 hrs (580 BOPD) CK 1 1/4", TP 500 [#] , GOR 1450/1, Gvty 43.5° @ 60°F.
1-19-66	NMOCD Pot: Abo F 210 BNO + No wtr / 9 hrs (560 BOPD) CK 1", TP 60 [#] , GOR 435/1, Gvty 39.9° @ 60°F.
1-12-67	Perf Wolfcamp 9528', 30', 41', 43', 66', 68', 70', 75', 78', 82', 84', 89', 95', 9601', 9608', 30', 34', 62', 66', 68', 76', 79', 96', 98', 9715', 20', 32', 45', 75', 9777', 9816', 18', 20', 24'. 1 SPF. 34 holes.
1-13-67	Acidize Wolfcamp overall w/ 20,000 gal 15% NEA + 48 BS. TTP 4700 [#] , AIR 8.8 BPM, ISIP 1200 [#] , 5 min 100 [#] .
1-17-67	Acidize Abo overall w/ 10,000 gal 15% NEA. TTP 5900 [#] , AIR 6.7 BPM, ISIP VAC.
1-24-67	Swaged out tight spot 9324'-28' w/ 6 1/4" swage. Perf Abo 8394', 98', 8414', 23', 25', 32', 8434'. 2 SPF. 14 holes. Acidize Abo 8394'-8434' OA w/ 10,000 gal 15% NEA. BDTP 5000 [#] , TTP 6000 [#] , AIR 5.1 BPM, ISIP 4100 [#] , 5 min 3800 [#] .

- Continued -

R.W. Pettv 10/14/87

WELL HISTORYLEASE Bridges StateWELL NO. 108 FIELD Vacuum U. Penn

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2-5-67	NMOC D Pot: Abo 8394'-9253' OA F 274 BND + 0 BW/24 hrs, 2 1/4" ck, TP 125' GOR 836:1, Gvty 38.7°@60°F. Before w/o: P 19 BOPD
2-7-67	NMOC D Pot: Wlfc 9528'-9943' OA F 477 BND + 18 BLW/24 hr, 3 3/4" ck, TP 185' GOR 705:1, Gvty 38.7°@60°F. Before w/o: F 68 BOPD
7-3-67	Acidize U. Penn 10,034'-57' OA w/500 gal 15% NEA. TTP 0#, AIR 1 BPM. After w/o: F 118 BND + 3 BW/24 hrs, 3/4" ck, TP 75#.
2-4-71	Acidize Wlfc OA w/7500 gal 28% NEA + 40 BS. TTP 2300#, AIR 7 BPM, ISIP VAC. After w/o: P 40 BOPD + 1 BWPD. Before: P 20 BOPD
10-12-74	Sqz Abo OA w/100 sx cmt. TP 3100'. Sqz'd because of unitization. Put Penn on pump P 74 BOPD + 18 BLWPD. Wlfc P 127/26.
5-6-80	Acidize Wlfc OA w/1000 gal 15% NEA. TTP 250#, AIR 1.5 BPM. Before w/o: P 54/1. After w/o: P 84/0.
6-13-81	Push to PBTD @ 10,130' 1/2 of Model A Guiberson pkr.
3-12-83	Set 5 1/2" 17# 595 flush joint liner @ 10,101' w/250 sx cmt. TOL @ 7680'. Cmt did not circ to TOL. PBTD 10,084'.
3-19-83	Perf U. Penn 10,032'-10062'. 1 JSPP. 31 holes.
3-22-83	Acidize U. Penn w/630 gal 15% NE FE HCl. BDTP 3800#, TTP 3800-4800#, AIR 4 BPM, ISIP VAC. After w/o: P 47 BOPD + 14 BLWPD. Before w/o: NA

R.W. Petty 10/14/87

MOBIL PRODUCING TEXAS & NEW MEXICO, INC.

**BRIDGES STATE LEASE, WELL NO. 108
VACUUM WOLFCAMP & VACUUM UPPER PENN
LEA COUNTY, NEW MEXICO**

OFFSET OPERATORS

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

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