MOBIL EXPLORATION & PRODUCING U.S.

LOVINGTON DEEP YATES STATE #1

DOWNHOLE COMMINGLING REQUIRED DATA

1. (a) Well involves a oil zone.

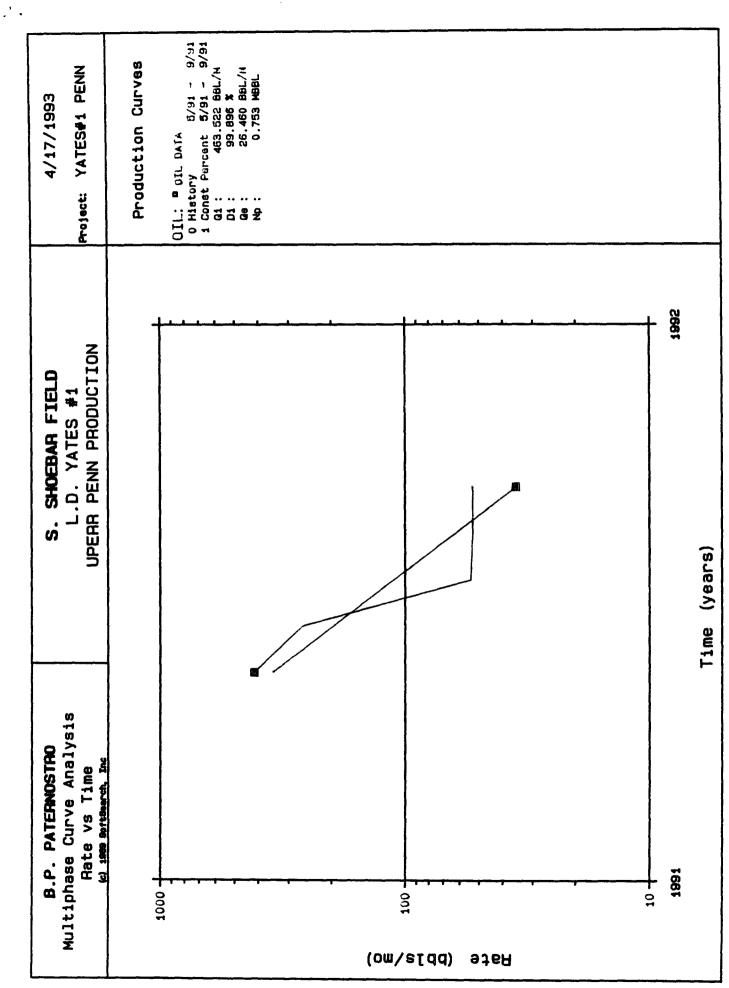
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- 1. Combined daily production from oil zones before commingling as determined in accordance with section D, paragraphs 4 and 5 of rule 303-C does not exceed 80 bbls/day limitation with the perforations of lowermost pool at greater than 10,000 ft.
- 2. Artificial lift will be used to bring fluid from both zones.
- 3. Neither zone produced more water than the combined oil limitation as determined in 1(a)1.
- 4. Combining fluid from both zones does not result in the formation of precipitates at the formation.
- 5. Value of the crude will not be reduced by commingling.
- 6. Ownership is common.
- 7. Commingling will not jeopardize efficiency of future secondary recovery operations.
- 2. (a) Mobil Exploration & Producing U.S. 12450 Greenspoint Dr. Houston, Tx 77060-1991
 - (b) Lovington Deep Yates State #1 Sec 36, T-16S, R-35E Lea County, New Mexico Upper Pennsylvanian and Wolfcamp zones.
 - (c) Ownership plat (attached).
 - (d) A current 24-hr test of the Wolfcamp is 8 BOPD and 1 BWPD. Production on the Upper Pennsylvanian immediately prior to recompletion to the Wolfcamp is 2 BOPD and 2 BWPD.

(e) Production curves for both zones (attached).

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- (f) Bottom hole pressures for each zone (attached).
- (g) Each zone is oil and there is no evidence of incompatibility.
- (h) Test the Wolfcamp prior to commingling, then test the commingled production. Allocate initial test production to the Wolfcamp. Allocated the differential of the commingled production and the Wolfcamp to the Upper Pennsylvanian.
- (i) Researched offset acreage, and Mobil is the only operator in this field.



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L 6/04/1992 SAND Project: LD YATES#2-WOL NE FIT	Production Curves	■ OIL Du story net Perce	U1 : 01 : 01 : 01 : 01 : 01 : 01 : 01 :		 		•	1993
LD YATES #1 UPPER WOLFCAMP SAND PRODUCTION DECLINE F1	-					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1992
B.P. PATERNOSTRO Multiphase Curve Analysis Rate vs Time (s) 1000 SottSourch, Inc				1000			· · · · · · · ·	100 +

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Kaiser – Frances 26 Kennedy & Mitchell	Kaiser – Frances Meridian	Yates Pet, etal Texaco	25 36	30 _{Union} 31 ^{Texaco}
Mitcheir				J.L. Hamon
Arco	Petco	Yates (Mobil)	 	Mobil
Exxon 2		Mobil	1	6 Amoco
RESERVE		Permit depth		
THE STATE OF TEXAS	Mobi	i Exploration & Pro	ducin	g U.S. Inc.

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I hereby certify that this plat truly represents conditions
as they actually exist on this lease; that said plat which
to 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 location
of said wells are as indicated hereon; and that this
plat correctly reflects all pertinent and required data,

M©DII EXPloration & Producing U.S. Inc. Midland

LEASE Lovington Deep Yates	- State	
LEASE LOAMINUT LOOP 10000	, 3(808	
WELL NO	DATE	
	LEA	SE NO
	ACRES COVERED	BY PLAT
DESCRIPTION SE4 of Section	36, T-16-S, R-35-E	
6	Miles SW from Lovington, M	NM
	Les County, New Mexico	
DRAWN_SDB2140	DATE 7-30-91	HELD Wolfcamp
SCALE 1":= 1000'	FILE NO _30	South Shoe Bar

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05/21/93 09:17	MEPUS E&R∕L P-IS-HOUSTO	∞ N → 5058275741	NO.622 6 08
10BIL/BUCKEYE	ID:6903 LOVINGTON DEC	MAY 04'93	9:27 No.001 P.03
YATES 57. #1 NOBIL LARRY 05-04-1993	Production 3.0 BOPD	Casing	Casing(Psig)= 92.
WELL DATA 40.0 API Oil 1.05 Water SG Gas SG:0.83 Yelocity= 1172 Ft/Sec	VOGEL IPR ANALYSIS PBHP/SBHP=0.42 Efficiency=77% Max Producing Rate 3.9 BOPD 6.5 BWPD Reservoir Pressure	Gas/Liq PSIG= 130	Annular Gas Flow (MCF/D)= 0.0
Temperature: 70 F Surface 130 F Bottom 2.375 Tubing 5.500 Casing	500 psia Test Method- EST 0 day Shut-In Test date:02-17-91	Liquid 0 10522 ft Datum Anoromy	100% Liquid SBRP(PSIA) = 500
Total Liquid Gas-Free Liquid	above Punp= 196 Ft above Ponp= 196 Ft	Datum @10718 00000000 PBHP(Psia = 211.5	•
	FLUID Level Above THE PUMP	CSG PRESS	ire
5-3-93	0'	29 #	
4 Hours	35 [′]	45 #	
24 Hours	196'	93 🚧	
	EXHIBIT 11	- PAGE 3	
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