

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR 5-6-93

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088		
SANTA FE, NEW MEXICO 87501 RE: Proposed: MC DHC	ANC 843	
NSL		
SWD WFX PMX Gentlemen: I have examined the application for the: Mobil Producing TX+NM Auc. Operator Lease & Well and my recommendations are as follows:	Lovengten Deep Yute Lovengten Deep anoco Kreti State 31	Le Stale 1-P36-16-35- Stale 3-N6-17-36 1-M31-16-36
Operator Lease & Well and my recommendations are as follows:	No. Unit S-T-R	
_OK		
Yours very truly,		
verry Sexton		
Supervisor, District 1		

Mobil Exploration & Producing U.S. Inc.

as agent for Mobil Producing Texas & N.M. Inc.

HOUSTON DIVISION
12450 GREENSPOINT DRIVE
HOUSTON, TEXAS 77060-1991

April 23,1993

State of New Mexico Energy and Mineral Department Oil Conservation Division

William J. Lemay Director

MOBIL PRODUCING TEXAS & N.M. INC.
REQUEST FOR EXCEPTION TO RULE
303-A DOWN HOLE COMMINGLING
UPPER PENNSYLVANIAN AND WOLFCAMP
ZONES LOVINGTON DEEP AMACO
STATE #3, KRITI STATE 31 #1,
LOVINGTON DEEP YATES STATE #1
LEA COUNTY, N.M.

Gentlemen:

Mobil Producing Texas and New Mexico, Inc. (MPTM) respectfully request your approval to down hole commingle the production from the Upper Pennsylvanian and Wolfcamp zones in the captioned wells. Each zone is classified as an oil zone. In support of this request, required information is attached.

If you need additional information, please contact the undersigned at (713)775-2125.

Sincerely,

Sheena Mathews

Sheena Mathem

Environmental & Regulatory Engineer

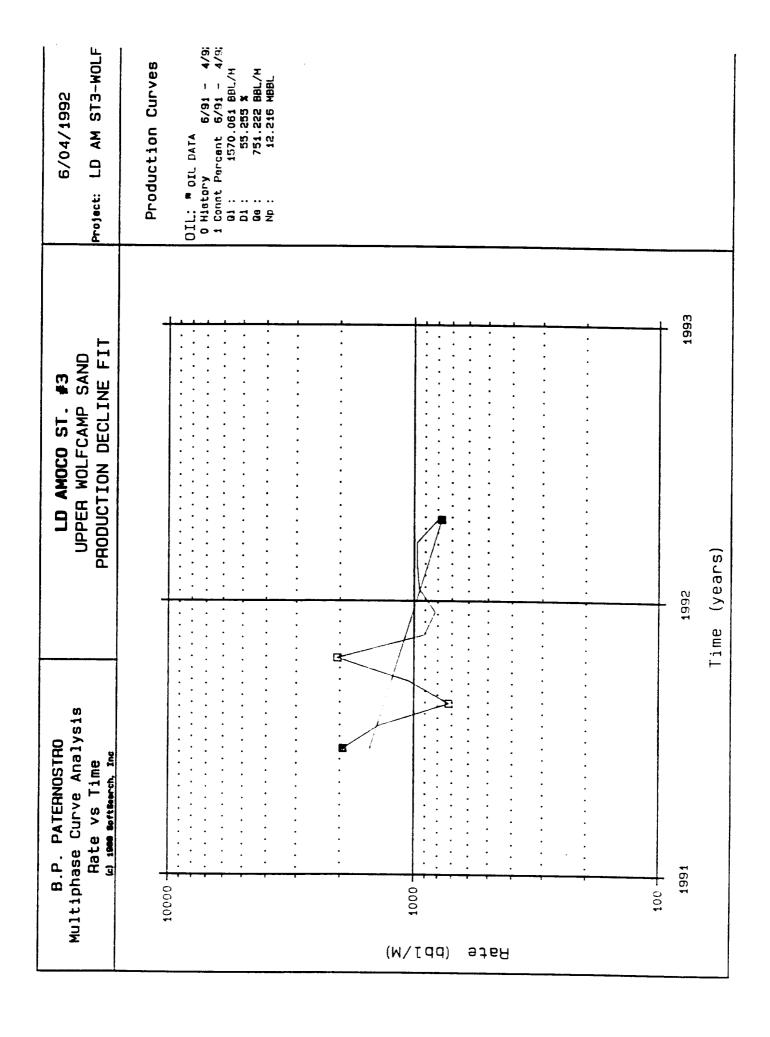
MOBIL EXPLORATION & PRODUCING U.S.

LOVINGTON DEEP AMOCO STATE #3

DOWNHOLE COMMINGLING REQUIRED DATA

- 1. (a) Well involves a oil zone.
 - 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.
- - (b) Lovington Deep Amoco State #3
 Sec 6, T-17S, R-36E
 Lea County, New Mexico
 Upper Pennsylvanian and Wolfcamp zones.
 - (c) Ownership plat (attached).
 - (d) A most current 24-hr test of the Wolfcamp is 20 BOPD and 3 BWPD. Production on the Upper Pennsylvanian imediately prior to recompletion to the Wolfcamp is 9 BOPD and 0 BWPD.
 - (e) Production curves for both zones (attached).

- (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.



Lovington Deep Amoco State #3

Lovington Deep Amoco State #3 produced from the Upper Pennsylvanian for a short period of time. There insufficient data to provide a decline curve for this zone in this well.

THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF MOBIL PRODUCING TEXAS & NEW MEXICO INC. AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREON (PARTIAL OR COMPLETE) SHALL BE RETURNED TO THE OWNER ON DEMAND.

Yates	Kriti Expl.			Exxon	ļ	Н	.E. Yates
		!					
36		1			31	32	
Mobil	Amoco (Mobil)			Mobil	6	5	Turner
	(MODII)	1					
	80 Ac.						
		1					
	20.4-	1					
	80 Ac.						
		i					
		L				<u> </u>	
				Texaco			Texaco
	80 Ac.	1					
		1					
							i
	745'					ļ	
	1745'	1				ŀ	
	730	!					
	Lovington Deep Amoco	State		State			
Mobil 12	Texaco			Texaco	7	8	Техасо
· -		 					
		1					
		I				1	
RESERVE			PERMIT DEPTH				
SPECIAL INSTRUCTIONS _							
							·····
							
THE STATE OF TEXAS	3	Mobil E	xplora	ition & Pro	duci	ng I	U.S. Inc.
COUNTY OF Midland I hereby certify that the	his plat truly represents conditions		•	Midiand			
as they actually exist	on this lease; that said plat which	LEAST LOVINGTOR	Deep Amoc				
	indicated hereon, is to the best of icorrect; that it accurately shows	WELL NO. 3 DATE 19 93					19 93
said lease with all well:	s on same; that number and location				LEASE NO		
	indicated hereon; and that this sall pertinent and required data.	DESCRIPTION W		ACRES CO n 6, T-17-S, R-36-E	OVERED BY PL	AT <u>30</u>	7.60
	DESCRIPTION						
		6 Miles SW form Lovington, NM.					
		Lee County, New Mexico					
		DRAWN SDB2140		DATE 8-2-91		South	Shoe Bar-
5		17 - 1000		20	- 1	\A/alfa	

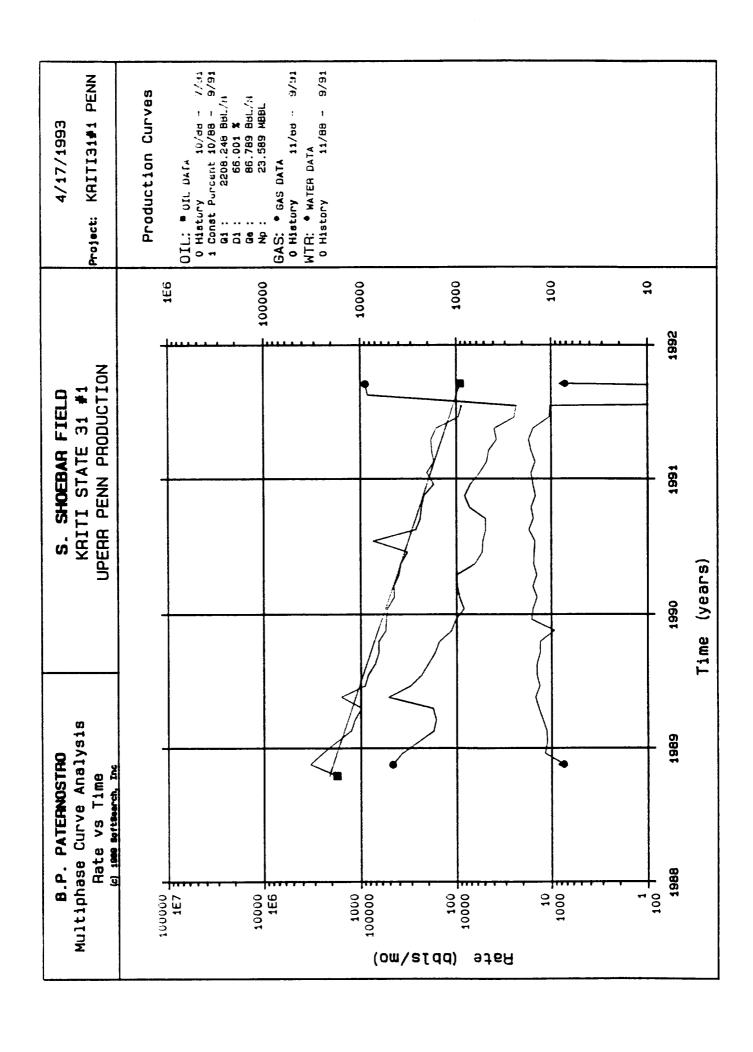
MOBIL EXPLORATION & PRODUCING U.S.

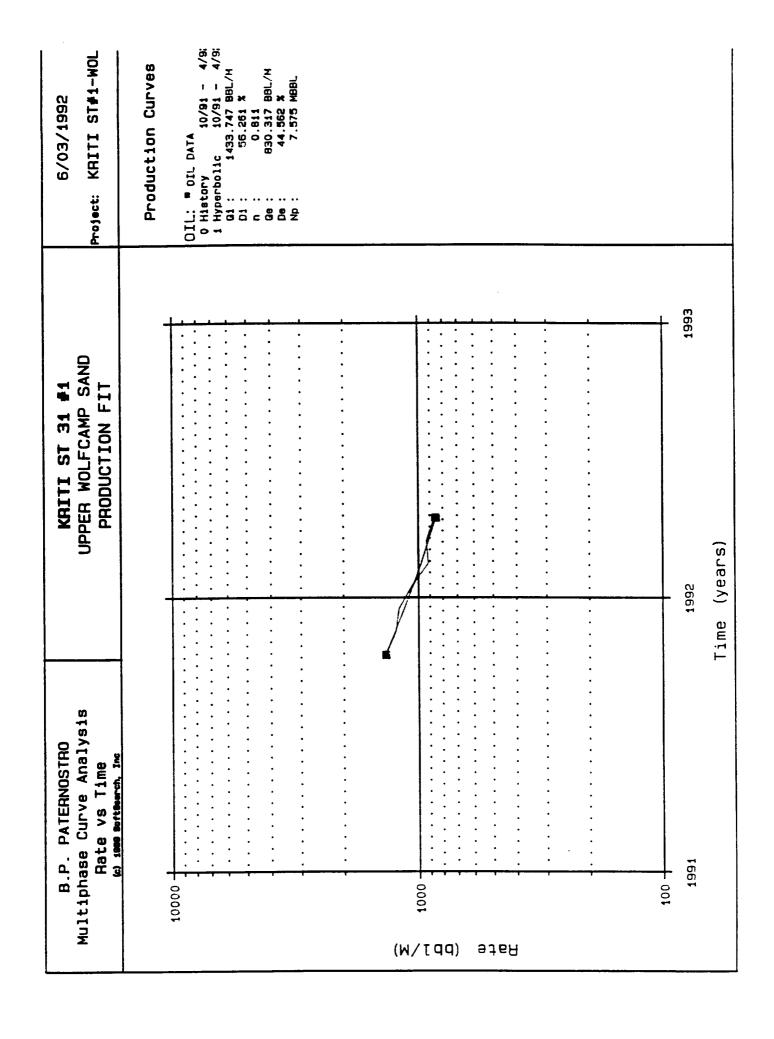
KRITI STATE 31 #1

DOWNHOLE COMMINGLING REQUIRED DATA

- 1. (a) Well involves a oil zone.
 - 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.
 - 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) Kriti State 31 #1
 Sec 31, T-16S, R-36E
 Lea County, New Mexico
 Upper Pennsylvanian and Wolfcamp zones.
 - (c) Ownership plat (attached).
 - (d) A current 24-hr test of the Wolfcamp is 21 BOPD and 11 BWPD. Production on the Upper Pennsylvanian immediately prior to recompletion to the Wolfcamp is 5 BOPD and 49 BWPD.
 - (e) Production curves for both zones (attached).

- (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.





THIS DRAW AND ALL INFORM ON THEREON IS THE PERTY OF MOBIL! DUCING TEXAS & NEV. XICO INC. AND SHALL NOT BE COPIED. USED EXCEPT FOR THE PURPOSE FOR WHIC. IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREON (PARTIAL OR COMPLETE) SHALL BE RETURNED TO THE OWNER ON DEMAND.

Petrus	Maralo			Major, etal		Major, etal	
Payne 24 Petrus 25	State K-		. Ham	<i>Mobil - St.</i>	30 31	29 32	State Yates Petr.,
							etal
			Ex	con			H. E. Yates
Yates							
State			Sta	ite			State
Texaco 36	Amoco (Mobil)		Mot		6	5	Turner
Lovington Deep State	Lovington Deep Amoco State		"v	<i>"</i>			" <i>D</i> "
al instructions		Permit D	epth				
HE STATE OF TEXAS		Mobil Produ		Texas &			lexico l
ereby certify that this they actually exist on drawn to the scale and of knowledge true and of id lease with all wells of ons of said wells are as	plat truly represents conditions this lease; that said plat which licated hereon, is to the best of correct; that it accurately shows on same; that number and locaindicated hereon; and that this I pertinent and required data.	LEASE Kriti State WELL NO TOTAL ACRES IN LEASE DESCRIPTION SW 1/4	31 £ 154.	DATE	s cove	EASE RED E	NO19_
		Lea Cou	nty, N	Lovington, New Mexico		hoe E	Bar, South

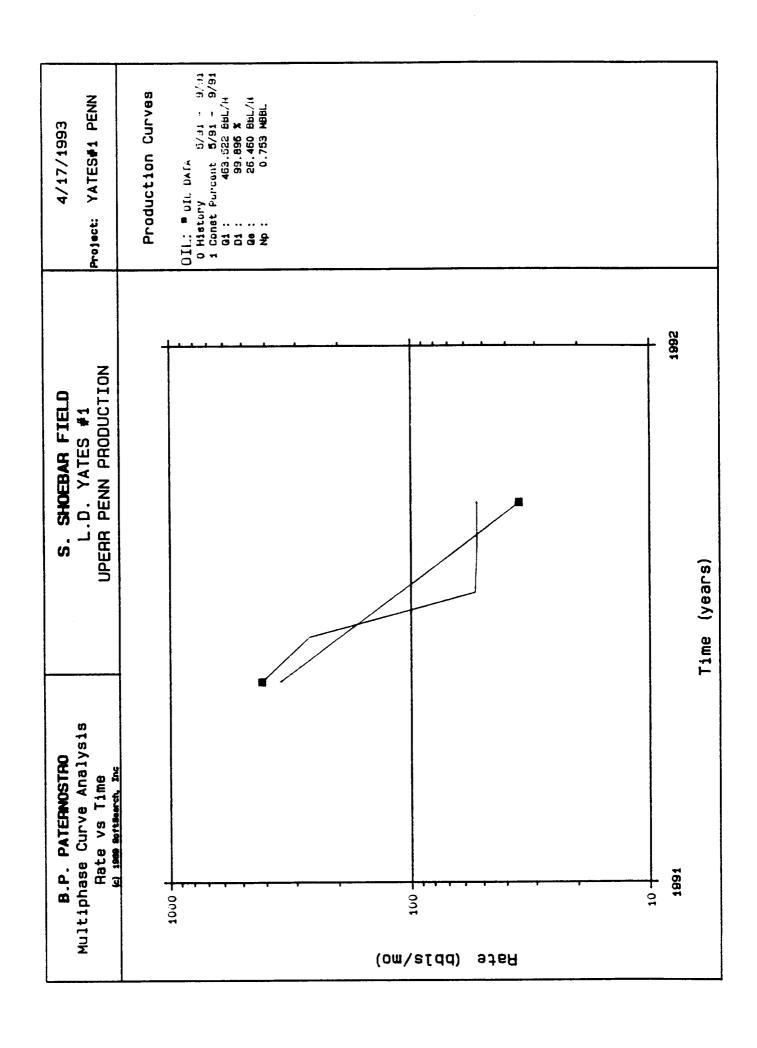
MOBIL EXPLORATION & PRODUCING U.S.

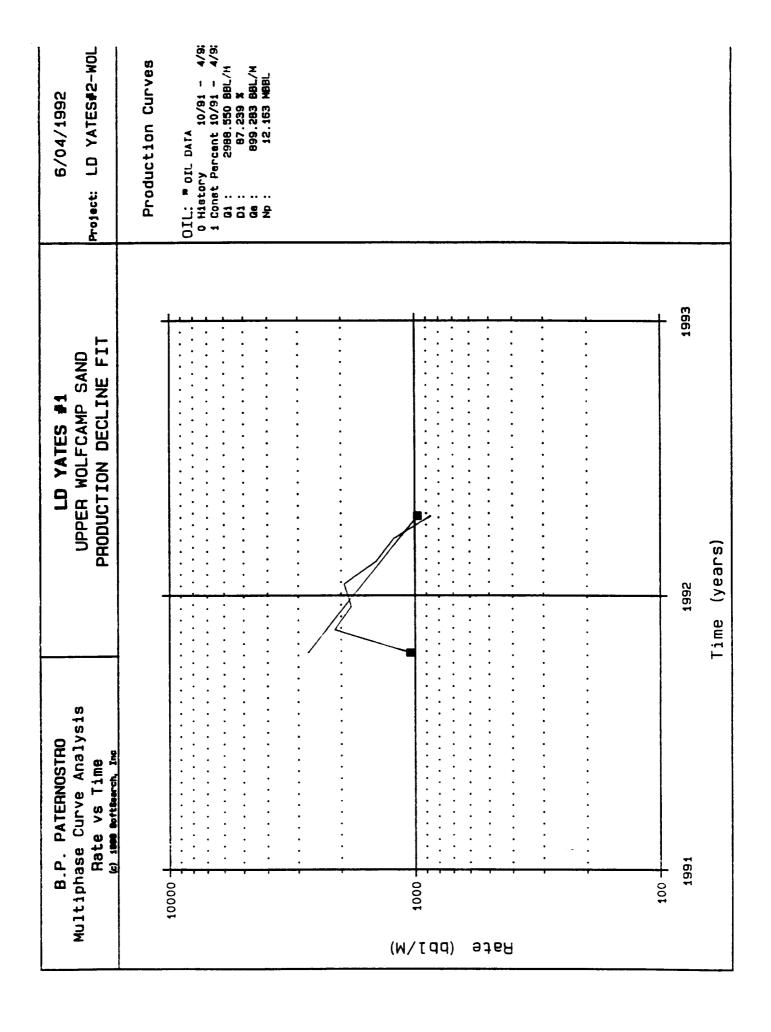
LOVINGTON DEEP YATES STATE #1

DOWNHOLE COMMINGLING REQUIRED DATA

- 1. (a) Well involves a oil zone.
 - 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).
- (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.





1						
Kaiser – Frances 26	Kaiser – Frances	i		Yates Pet, etal	25	30 _{Union}
Kennedy &	Meridian		Texaco	36	31 Texaco	
Mitcheli		!				
			 			
						J.L Hamon
Arco	Petco I			Yates		Mobil
	ļ			(Mobil)		
				1		A
						-07-
ŀ						8
	1			0	9807	
Exxon 2		Mc	obil	1 31	1	6 Amoco
						0
NESERVE			PERMIT DEPTH			
SPECIAL INSTRUCTIONS					-	
THE STATE OF TEXAS		Mobil	Explore	ition & Pro	ducir	ng U.S. Inc.
2 hereby certify that this plat truly represents conditions 2 hereby certify that this plat truly represents conditions Midland						
is drawn to the scale indicated hereon, is to the best of By knowledge true and correct; that it accurately shows WELL NO						
said lease with all wells on sees; that number and location of said wells are as indicated hereon; and that this plat correctly reflects all pertinent and required data. TOTAL ACRES IN LEASE 160						
OERCIFTION OF THE TANK THE TAN						
		6 Miles SW from Lovington, NM Les County, New Mexico				
		DRAWN SDB2		DATE 7-30-91		Wolfcamp th Shoe Bar
-		, scar		TRE NO	300	on once par