State of New Mexico





Commissioner of Public Lands

W.R. HUMPHRIES

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

October 25, 1990

J. W. Dixon Mobil Exploration & Producing U.S. Inc., P.O. Box 633 Midland, TX 79702

Re: Request to Surface Commingle South Shoe Bar Field Lea County, New Mexico

Dear Ms. Dixon:

Reference is made to your application dated October 5, 1990 wherein you have requested our approval to surface commingle production from the Devonian and Pennsylvania (currently commingled by OCD Order #PLC-75) and the Wolfcamp formation in the Livingston Deep State Lease, Lovington Deep Amoco State Lease, and Yates State Lease.

Since ownership is common throughout and there will be no loss of revenue to the State of New Mexico's Beneficiaries from your proposed operation, the Commissioner of Public Lands this date approves your request. This request is given with the understanding that the Commissioner reserves the right to amend or withdraw his approval should this operation prove unprofitable to the State at any time in the future.

Per our conversation, please provide this office with a plat delineating the wells, leases and flowlines.

If you have any questions please call Clyde Langdale at (505) 827-5791.

Sincerely,

W. R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

By: 7 Corple / Law Floyd O. Prando, Director Oil, Gas & Minerals Division

WRH/FOP/CL/dm OCD-David Catanach State of New Mexico





W.R. HUMPHRIES COMMISSIONER Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

October 18, 1990

J. W. Dixon Mobil Exploration and Froducing U.S. Inc., P.O. Box 633 Midland, TX 79702

Re: Request to Surface Commingle South Shoe Bar Field Lea County, New Mexico

Dear Ms. Dixon:

We received a copy of your letter dated October 5, 1990 with the subject request. We have enclosed copies of the State Land Office Rules 1.053, 1.054, and 1.055 that address commingling.

Your request can be processed as soon as we receive this information.

Sincerely,

Clyde R. Langdale, Petroleum Engineer Specialist Oil, Gas & Minerals Division

CRL/dm

Enclosure

cc: David Catawach, OCD

THE ONE SHEET ON DIVISION LICENCED

Mobil Exploration & Producing U.S. Inc 90 0CT 12 00 9 21

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

Attention: Joe D. Ramey

P.O. BOX 633 MIDLAND, TEXAS 79702

MIDLAND DIVISION

SURFACE COMMINGLING PERMIT, NMOCD RULE 303(B) LOVINGTON DEEP STATE LEASE, WELLS # 1, (2, 3 LOVINGTON DEEP AMOCO STATE LEASE, WELLS # 1, (2) YATES STATE LEASE, WELL #1 SOUTH SHOE BAR FIELD LEA COUNTY, NEW MEXICO

Gentlemen:

MPTM requests authorization to surface commingle commonly owned production from the (Devonian and Pennsylvanian) currently commingled by order #PLC-75, and the Wolfcamp formation on the Livington Deep State Lease, Lovington Deep Amoco State Lease, and Yates State Lease.

We fulfill the requirements outlined by NMOCD Rule 303(B) and provide the necessary supporting documentation for this request. The result of this surface commingling will not reduce the commercial value of the commingled product when compared to the sum of the individual products.

- 1. Form C-101 w/plat
- 2. Commingling Order No. 75
- 3. Computations showing value of the commingled production
- 4. Site Facility Schematic Flow Diagram
- 5. Plat showing Lovington Deep, South Shoebar Field
- 6. Equipment Inventory Lovington Deep State Central Tank Battery

State of New Mexico Surface Commingling Permit October 5, 1990 Page 2

Your earliest consideration of this request would be appreciated. Should you have any further questions, please contact J. W. Dixon at (915) 688-2452.

Yours very truly,

Mobil Exploration & Producing U.S.Inc. As Agent for Mobil Producing Texas & NM) Inc.

lon

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

JWD/spb Attachments

cc: Director, Hobbs District

Visirict Office Sate Lease — 6 copies See Lease — 5 copies		State of New Mez Minerals and Natural Res	ources Department		- Form C-101 Revised 1-1-89		
DISTRICT	OILO	API NO. (assigned by OC	D on New Wells)				
P.O. Box 1980, Hobbe, NM 88240 F.O. Box 2088 Santa Fe, New Mexico 87504-2088				30-025-30226			
DISTRICT II P.O. Drawer DD, Artesia,			5/ 504 -2000	5. Indicate Type of Lease			
DISTRICT III 000 Rio Brazos Rd., Azie				6. State Oil & Gas Lease	No.		
	TION FOR PERMIT	TO DRILL, DEEPEN, O		LG-33			
a. Type of Work: DRIL b. Type of Well: OIL GAS	Recomplete	E DELEPEN SINGLE		7. Lease Name or Unit A	-		
		20NE	X 20NE	Lovington De	ep State		
Name of Operator Mobil Brody	ucing Tx. & N.M.	The		8. Well No.			
				9. Pool name or Wildcat			
Address of Operator P. O. BOX 6	xploration & Pr	oducing U.S.Inc.		South Shoe Bar			
. Well Location Unit Letter G		rom The North	Line and 1980	Feet From The	East Lin		
			·				
Section 1	Town	ntip 17S Ran	35E	NMPM Lea	County		
		10. Proposed Depth 11,000		Formation	12. Rotary or C.T. Rotary		
3. Elevations (Show wheel	her DF. RT. GR. etc.)	14. Kind & Status Plug. Bond	15. Drilling Contracto	olfcamp	Date Work will start		
3931 '		Active Blanket	Unknown	ASAP			
7.	PF	ROPOSED CASING AN	D CEMENT PROG	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP		
				ONORO OF OFICIAL			
N/A	13-3/8	54.5#	478'	N/A	Surface		
N/A N/A N/A	13-3/8 8-5/8 5-1/2	54.5# 32# 15.5#, 17#					
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Submit (o Appropriate
Discrict	Office
State Le	ase - 4 copies se - 3 copies
LOS TOT	

DIS	RIC	[]			
P.O.	Box	1980.	Hobbs,	NM	882

40

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

erator	T., Ø M M T		Lease				Well No.
	Tx. & N. M. Inc.		Lovingt	on Deep St	ate		3
it Letter Section	Township		Range			County	· · · · · · · · · · · · · · · · · · ·
<u> </u>	17-S		34	-E	NMP	1	Lea
ual Footage Location of W			1000				
1874 feet from und level Elev.	n the North Producing Formation	line and	1980		feet from	n the East	line Dedicated Acreage:
3931 '	Wolfcamp		South Sh	oo Bar			80
	ige dedicated to the subject well	by colored per	L		let helen:		Acres
3. If more than one unitization, force Yes	No lf ans	dedicated to the wer is "yes" typ	e well, have the pe of consolidati	interest of all o	owners been cona	blicated by com	•
	st the owners and tract description	ons which have	actually been c	onsolidated. (Use reverse side o	Ć	
this form if neccess No allowable will b	ery be assigned to the well until all i	nterests have be	een consolidated	l (by communi	tization unitizatio	n forred-poolir	ng or otherwise)
or until a non-stand	ard unit, eliminating such intere	st, has been apj	proved by the D	ivision.	· · · · · · ·	at lotoes poor	
				1980' /////		I hereby contained here best of my know Signature 	ironmental & Regulatory cing Texas & New Mexico nd through its agent ration & Producing U.S. VOR CERTIFICATION by that the well location shown was plotted from field notes of a made by me or under my in that the same is true and a best of my knowledge and best of my knowledge and
330 660 990 13	T-17-S, R-35-E	40 20	00 1500	1000	500 0	Certificate No.	

STATE OF NEW MEXICO



ENERGY, WINERALS AND NATURAL RESOURCES DEPART MENT

OIL CONSERVATION DIVISION

PRODUCTION GEOLOGY

MAR 29 1988

GARREY CARRUTHERS GOVERNOR

AMENDED COMMINGLING ORDER NO. 75

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Mobil Exploration and Production Company P.O. Box 633 Midland, TX 79702

Attention: G. M. Sullivan

FYF

The above-named company is hereby authorized to commingle South Shoe Bar Devonian and Undesignated Penn Pool production from the following leases:

Lovington Deep State Lease Section 1, Township 17 South, Range 35 East

Lovington Deep Amoco State Lease Section 6, Township 17 South, Range 36 East

Lovington Deep Yates State Lease SE/4 Section 36, Township 16 South, Range 36 East

All in Lea County, New Mexico

Production shall be allocated to each lease by well tests. (If this method or the subtraction method is to be authorized, all commingled production must be of identical ownership: working interest, royalty interest and overriding royalty interest.)

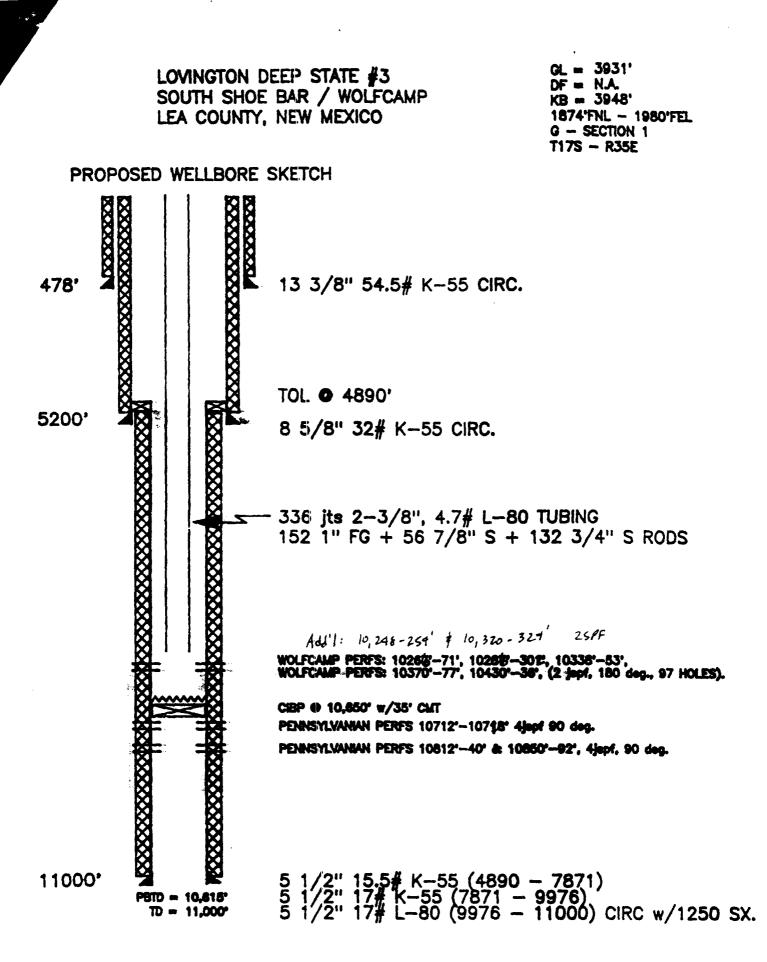
NOTE: This installation shall be installed and operated in accordance with the applicable provisions of Rule 309-B of the Division Rules and Regulations of the Division "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

REMARKS: This amended order authorizes the operator to allocate production by well tests. The previous order required the metering of the Penn Pool production due to the capability of the well to make top allowable.

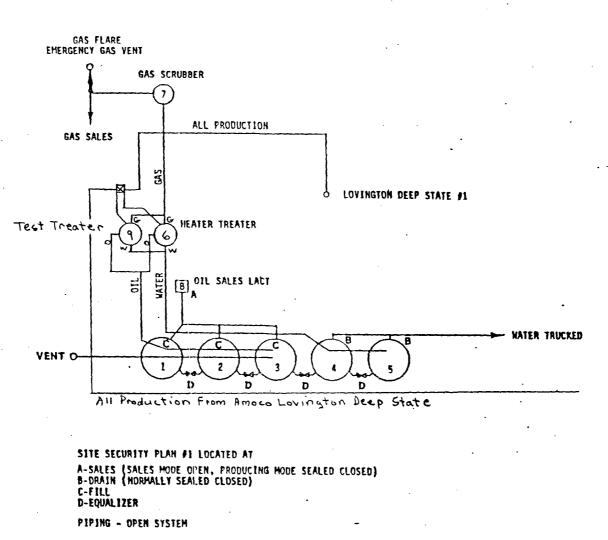
Done at Santa Fe, New Mexico, on this 10th day of February 1988.

WILLIAM LEM Director WJL/DRC/ag xc: OCD-Hobbs

State Land Office Building; P. Martinez

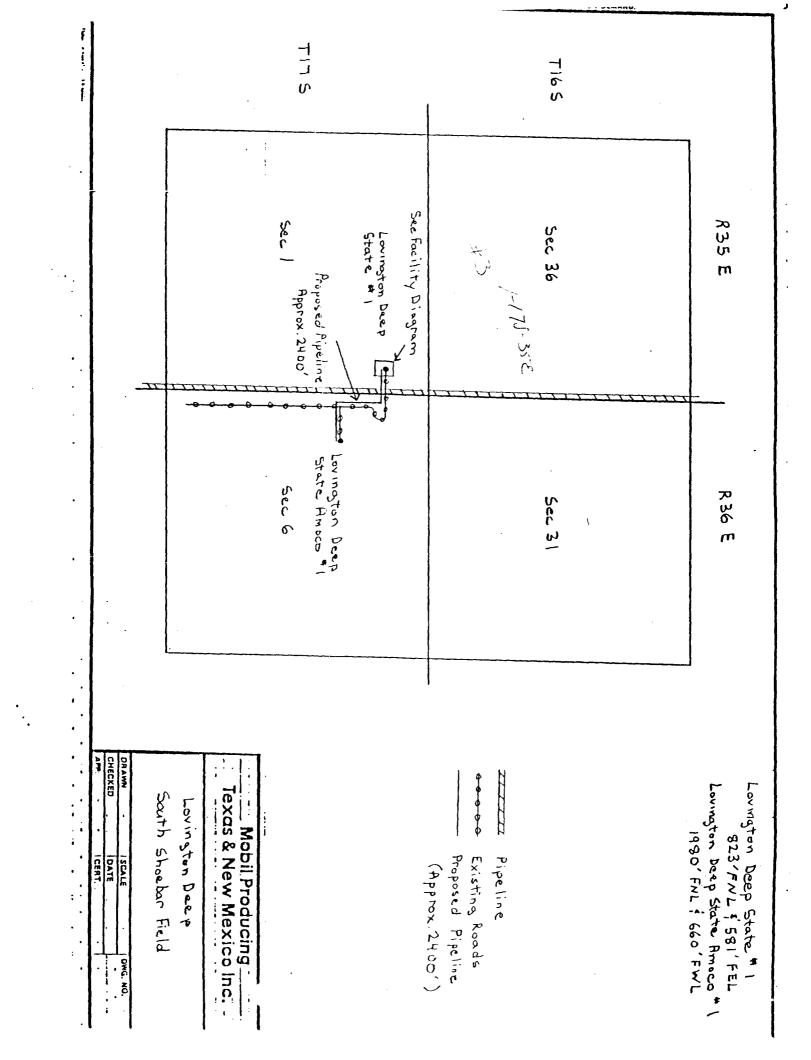


01/20/88



DO - VALYE TANK

Mobil Producing Texas & New Mexico Inc.					
MIDLAND DIV	ISION M	DLAND, TEXAS			
SITE FAC	ILITY SCHEMATIC P	LOW DIAGRAM			
10	VINGTON DEEP STA	TE #1			
	WILDCAT DEVONIAN				
LE	COUNTY, NEW MEX	100			
DRAWN A.L.N.	ICALE NONE	DWQ. NO.			
CHECKED	DATE BILLIAS				



MOBIL PRODUCING TX & NM INC. SOUTH SHOE BAR (DEVONIAN, PENNSYLVANIAN, WOLFCAMP) LEA COUNTY, NM

These computations show the value of the commingled production will be the same as the sum of the values of the Devonian and Montoya formations.

Formation	<u>API Gravity @ 60°</u>	Volume of Production BBL/Day
Devonian Pennsylvanian Wolfcamp	52.4 45.6 41.0	32 120 estimated 50
		202

The value of New Mexico crude greater than 40 gravity, per MPTM price bulletin dated Sept. 1990, is \$28/BBL.

Expected Gravity of Commingled Product

Devonian	Gravity x 16% of Product = 8.0	
Pennsylvanian	Gravity x 59% of Product = 27.0	
Wolfcamp	Gravity x 25% of Product = 10.0	

45.0 Gravity

Expected Commercial Value of Commingled Product 202 bbl/day x \$28/BBL of NM Crude 40 Gravity = \$5656/Day

Commercial Value of Separate Products Devonian 32/BBL/Day x \$28/BBL = 896/Day Pennsylvanian 120/Day x \$28/BBL = 3360/Day Wolfcamp 50 BBL/Day x \$28/BBL = 1400/Day

\$ 5656/Day

EQUIPMENT INVENTORY LOVINGTON DEEP CENTRAL TANK BATTERY SOUTH SHOE BAR FLD. LEA COUNTY, NEW MEXICO

- 1. Stock tank, crude oil storage, 500 bbl., 15.6' dia x 16' high, cone roofed, flat bottom, welded steel.
- 2. Ditto

.

- 3. Ditto
- 4. Stock tank, produced waterstorage, 500 bbl., 15.6 dia. x 16' high, cone roofed, flat bottom, welded steel.
- 5. Ditto
- 6. Heater treater, 250m BTU/hr, 3 phase separator, 4' dia. x 27 1/2' high.
- 7. Gas scrubber separator, 36" dia x 10' high, 125# WP.
- 8. LACT unit.
- 9. Test Treater.