



MIDLAND PRODUCTION DISTRICT

SUN PRODUCTION COMPANY 901 W. WALL, POST OFFICE BOX 1861, MIDLAND, TEXAS 79702 (915) 682-8271

January 15, 1979

DHC-272

Due-2/7/79

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

RE: Walter Lynch No. 2
660 FWL and 1980 FSL
Sec. 1, T-22-S, R-37-E
Lea County, New Mexico

Gentlemen:

Sun Oil Company is making application to downhole commingle their Walter Lynch No. 2 Well.

Presently the well is dualed in the Drinkard and Paddock Pools. Permission was given by NMOCC in 1974 (Order No. MC2142). We respectfully request an exception to Rule 303-A in order to permit commingling within the well bore of production from the Drinkard and Wantz Granite Wash Pools. These will be dualed with the Paddock.

The pumping equipment installed is capable of keeping the fluid pumped down. There should be no crossflow between producing intervals. Compatibility of fluids within the well bore is assured due to a minimum of produced water. Well tests in December 1978 were: Paddock 12 oil, 7 water. Drinkard was 4 oil, no water. Gravities are 39.00 for Paddock and 42.00 for Drinkard.

Value of the commingled production will not be less than the sum of the values of individual streams, as the value received for the 39.00 crude is \$13.77 and for the 42.00 crude is \$14.85.

Attached is a list of Offset Operators, well history, lease plat and well completion sketches both of present completion and suggested completion. We are requesting waivers from the Offset Operators and are sending the New Mexico Conservation Commission District Office in Hobbs a copy of our request and supporting documents.

JAN 18 1979

*Drinkard & Wantz SW dual
was MC-2445 on 4-22-78*

Approval of this application will insure that waste has been avoided and that the practice of good conservation will aid in the recovery of additional hydrocarbons without the violation of correlative rights.

Yours very truly,

SUN OIL COMPANY



Carson Muntzel
Production Staff Associate

CM:jo

cc: N.M. Oil Conservation Commission
P. O. Box 1980
Hobbs, NM 88240

JAN 13 1979

WAIVER

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

Gentlemen:

This is to certify that _____
is the operator of an oil and gas lease adjacent to Sun Oil Company's Walter
Lynch Lease in Lea County, New Mexico. We have been furnished a copy of their
application to downhole commingle the Walter Lynch Well No. 2 and dual with
the Paddock.

?

We have no objection to this application under the conditions set forth and
hereby waive rights of protest.

Very truly yours,

(Signed)

(Title)

Executed this _____ day of _____, 1979.

JAN 18 1979
AT
SANTA FE

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

Operator: Sun Oil Company Lease: 12-21-78
 Address: P. O. Box 1861, Midland, TX 79702 Operator: Walter Lynch Lease: 2
 Location of well: L Pool: 1 Section: 22-S Direction: 37-E

1. Has the New Mexico Oil Conservation Commission previously authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES NO
2. If answer is yes, identify one such instance: Order No. _____ ; Operator or Lease, and Well No.: _____

3. The following facts are submitted:

	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Drinkard		Wantz Granite Wash
b. Top and Bottom of Pay Section (Perforations)	6576 6826		7094 7102
c. Type of production (Oil or Gas)	Oil		Oil
d. Method of Production (Flowing or Artificial Lift)	Pumping		Pumping

4. The following are attached. (Please check YES or NO)
- | Yes | No | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-2) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.
- Exxon Company, USA - P. O. Box 1600 - Midland, TX 79702
- Gulf Oil Corporation - P. O. Box 1150 - Midland, TX 79702
- Marathon Oil Company - P. O. Box 552 - Midland, TX 79702
- Sohio Petroleum Company - P. O. Box 3000 - Midland, TX 79702
- Texas Pacific Oil Company - P. O. Box 4067 - Midland, TX 79702

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES NO . If answer is yes, give date of such notification: 12-21-78

CERTIFICATE: I, the undersigned, state that I am the Production Staff Associate of the Sun Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.


 Carson Muntzel 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.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

OFFSET OPERATORS
WALTER LYNCH LEASE
LEA COUNTY, NEW MEXICO

Exxon Company, U.S.A.
P. O. Box 1600
Midland, Texas 79701

Gulf Oil Company, U.S.
P. O. Box 1150
Midland, Texas 79702

Marathon Oil Company
P. O. Box 552
Midland, Texas 79701

Sohio Petroleum Company
P. O. Box 3000
Midland, Texas 79701

Texas Pacific Oil Company
P. O. Box 4067
Midland, Texas 79701
Attention Mr. T. J. Waller

JAN 18 1979

W. LYNCH #2

HISTORY

5/19/78

8-45 SPUD

10-45 TD - 5220'

Perf Paddock 5100-60 w/238 holes 4 SPF

Acid - 2500 gal. IP 789 BO, 0 BW, 603 MCF, 764 GOR

4-59 Acid - 10,000 gal.

Before: 6 BO, 0 BW, 49 MCF, 8540 GOR

After: 41 BO, 0 BW, 106 MCF, 2570 GOR

10-64 Perf Paddock 5060-62, 73-75, 80-82, 92-96, 2 SPF

Frac all w/20,000 Gal ref oil & 20,000#

Before: 10 BOPD

After: 81 BO, 12 BW, 113 MCF, 1396 GOR

6-74 Deepened - NTD - 7150' Set liner. Paddock perf behind pipe. Set Otis

Perma Latch pkr @ 6939'. Perf G.W. @ 7094-7102, 1JS/2Ft., 5 holes.

B.D. w/3000 gal oil. FARO 325 MCFD. Set plug in pkr perf Drinkard,

6770, 87, 88, 90, 92, 6801, 16, 20, 24, 25, 26, 11 holes.

Acid - 1570 gal.

Perf Drinkard 6576, 77, 91, 92, 6808, 09, 10, 31

Acid - 1500 gal. Set Otis Perma Latch @ 6408' w/plug

Perf Paddock 5018, 25, 26, 29, 31, 46; 6 holes

Acid - 1500 gal.

Dualed Drinkard & Paddock

Drinkard IP 18 BO, 3 BW, 994 MCF, 55,222 GOR

750# FPT on 18/64

Paddock IP: 23 BO, 7 BW, 345 MCF; 15,000 GOR on pump

Before: Paddock - 10 BOPD.

JAN 18 1978

35

T. - 21 - S.

R. - 37 - E.

36

31

T21S - R 38E

EXXON
P.O. BOX 1800
MIDLAND, TX.
79702

EXXON

MARATHON
P.O. BOX 552
MIDLAND, TX.
79702

GULF
P.O. BOX 1150
MIDLAND, TX. 79702

12 * 35

7
4 ● 3

5 ●

7 ●
* 5

* 31

● 3

2 ● * 8

● 1

● 6

● 4

LYNCH

SUN

* 30

● 1

4 * 3000
2 ●

● 1

● 2

* 23

● 2

* 3

* 1

6 ● ● 1

* 3

WALTER LYNCH

SUN

1980'
660'

● 5

* 33

STATE

A. CHRISTMAS

A. PADDOCK

SCALE: 1" = 1000'

EXXON

TEXAS PACIFIC

EXXON

ARCO
P.O. BOX 1810
MIDLAND, TX.
79702

J.H. HENDRIX
525 MIDLAND TOWER
MIDLAND, TX. 79701

14 * ● 1

* 2 ● 1

2 ● ● 1

● 1

* 2

T. - 22 - S.

R. - 37 - E

T22S - R38E

JAN 3 8 1973

I HEREBY CERTIFY THAT THE ABOVE
INFORMATION IS TRUE AND CORRECT
TO THE BEST OF MY KNOWLEDGE.

Casson Muntzel

SUN OIL COMPANY

WALTER LYNCH - 120 AC. LSE.
OUT OF
SW/4 SEC. 1, T22S - R37E
LEA CO., NEW MEXICO

WELL COMPLETION SKETCHES
SUN-6641-A

WALTER LYNCH #2
WELL

WANTZ, DRINKARD, PADDOCK
FIELD

12-8-78

DATE 546

EL: 3364 - DF+KB
3354 - GL

PRESENT COMPLETION

SUGGESTED COMPLETION

ORIGINAL COMP.

WELL CLASS _____

PERMANENT WELL BORE DATA

17" hole
13 7/8" 40# @ 338' w/300SX
12" hole

9 5/8" 38# @ 2854' w/2100SX

DATA ON THIS COMPLETION

LT: 2 3/8" 4.7# 5-55 w/
PARALLEL TBC, + SWM DIVIDER
UNWASHOT

UT: 2 3/8" 4.7# 5-55 w/
TURNED DOWN COLLARS

SN - 4825'

PN 4826'

MA 4830'

BLOWING DISC IN COLLARS

OTIS PARALLEL TBC ANCHOR
@ 4869'

TOP OF 5" LEM @ 4896

PADDOCK PERFS: 6 holes

5013, 25, 26, 29, 31, 44

(OLD PADDOCK PERFS: 5060-62
73-75, 80-82, 92-96, 25RF
5100-60, 45RF, 238 holes)

1978
Drilled
Paddock & Drinkard
Order MC 142

17" 23# 5-55 @ 5217' w/350SX

DRINKARD PERFS: 19 holes

6576, 77, 91, 92, 6608, 09, 10, 81

6770, 87, 88, 90, 92, 6801, 16,

20, 24, 25, 26

OTIS PERMALACH PKR @
6400' w/ TBC SWM DIVIDER
X PROFILE NEPPLE (1.791 ID)

118 BO 12-78
O BW

GRANITE WASH PERFS: 2 Shales

7094, 96, 98, 7100, 02

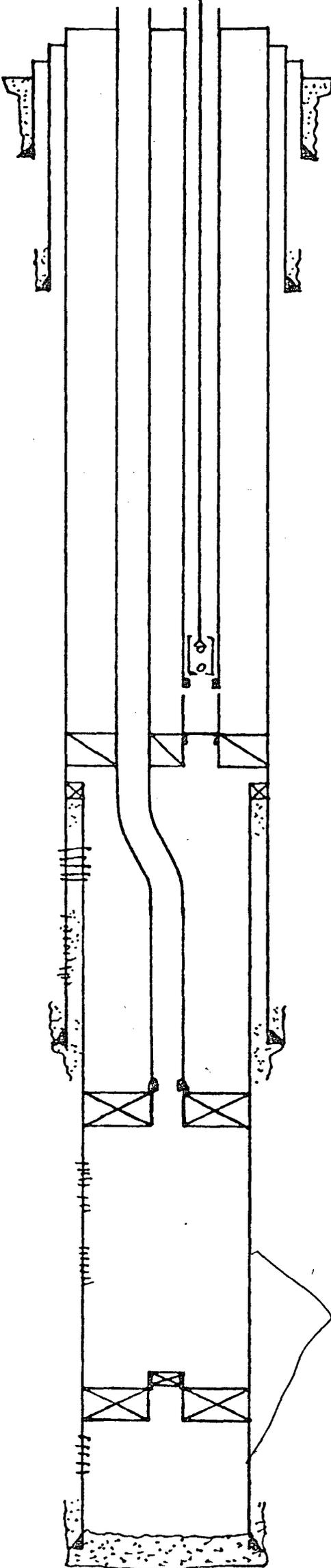
PBTD-7110'

5" 15# K-55, FS @ 7149' w/ 200SX

TD - 7150'

OTIS PERMALACH PKR @ 6939
w/ PLUG IN SWM DIVIDER
(N PROFILE)

Granite wash



WELL COMPLETION SKETCHES
SUN-6641-A

WALTER LYNCH #2
WELL

WANTZ, DRINKARD, PADDOCK
FIELD

12-8-77
DATE JAG

EL: 3364-DF+KB
3354-GL

- PRESENT COMPLETION
- SUGGESTED COMPLETION

ORIGINAL COMP.

WELL CLASS _____

PERMANENT WELL BORE DATA

17" hole
13 3/8" 40# @ 338' w/350sx
12" hole

9 5/8" 38# @ 2854' w/2100sx

DATA ON THIS COMPLETION

LT: 2 3/8" 4.7# J-55 w/
PARALLEL TPC, & SWP 0200
NON SHOT

UT: 2 3/8" 4.7# J-55 w/
TURNED DOWN COLLARS
SN - 4825'
PN 4826'
MA 4830'
BLANK END DISK INCLUDING

JAN 30 1978

TOP OF 5" LEVEL @ 4896

PADDOCK PERFS: 6 holes

5018, 25, 26, 29, 31, 46

(OLD PADDOCK PERFS: 5060-62
73-75, 80-82, 92-96, 250E
5100-60, 450E, 238 holes)

OTIS PERMALUCH TBG ANCH
@ 4869'

23" J-55, @ 5217' w/350sx

DRINKARD PERFS: 19 holes

65, 76, 77, 91, 92, 6608, 09, 10, 81
67, 70, 87, 88, 90, 92, 6801, 16,
20, 24, 25, 26

OTIS PERMALUCH PER @
6400' w/ TBG SWAL DIVIDER
& X-PROFILE NIPPLE (1.79110)

GRANITE WASH PERFS: 5 holes

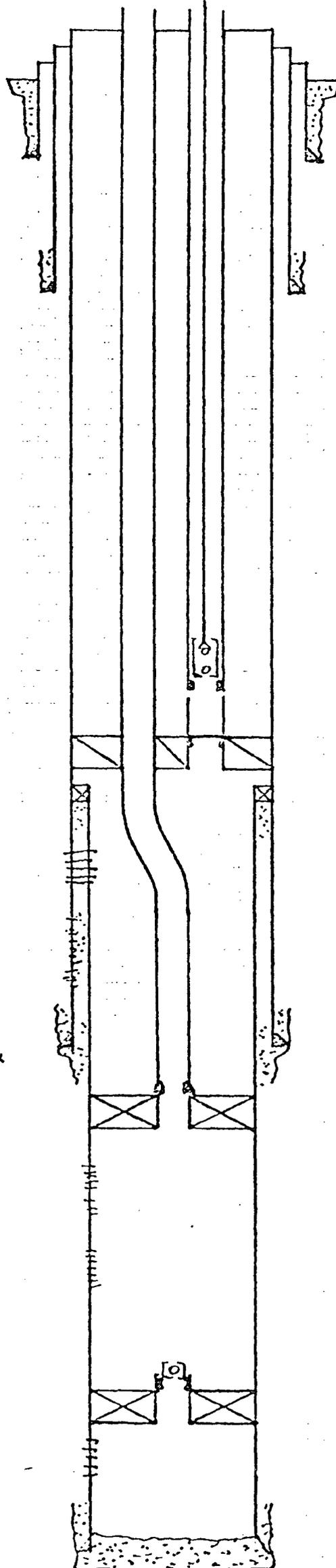
7094, 96, 98, 7100, 02

OTIS PERMALUCH PER @ 692
w/S.V. IN SWAL DIVIDER
(N' PROPER)

P 670-7110'

5" 15# K-55, ES @ 7149' w/200sx

TD - 7150'



NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE FEE

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. Farm or Lease Name Walter Lynch	
2. Name of Operator Sun Oil Company		9. Well No. 2	
3. Address of Operator P. O. Box 1861, Midland, TX 79702		10. Field and Pool, or Wildcat Paddock, Drinkard & Wantz Granite Wash	
4. Location of Well UNIT LETTER <u>L</u> LOCATED <u>660</u> FEET FROM THE <u>West</u> LINE AND <u>1980</u> FEET FROM THE <u>South</u> LINE OF SEC. <u>1</u> TWP. <u>22-S</u> RGE. <u>37-E</u> NMPM		12. County Lea	
19. Proposed Depth 7150		19A. Formation See Below	20. Rotary or C.T. -
21. Elevations (Show whether DF, RT, etc.) 3364 DF	21A. Kind & Status Plug, Bond on file	21B. Drilling Contractor None (see below)	22. Approx. Date Work will start Jan. 1979

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17	13 3/8		338	350	
12	9 5/8		2854	2100	
8 3/4	7		5217	350	
	5 (liner top)	4896	7150	200	

Well presently producing from Paddock and Drinkard. Wish to also produce a lower zone - the Wantz Granite Wash with them. Completion depth of present hole is 7150. Wish to deepen within present hole - no drilling required.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Carson M. Hunsel Title Production Staff Associate Date 12-21-78

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO RE-OPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT TO DRILL" (FORM C-101, FOR SUCH PROPOSALS.)

1. OIL WELL GAS WELL OTHER

2. Name of Operator
Sun Oil Company

3. Address of Operator
P. O. Box 1861, Midland, TX 79702

4. Location of Well
UNIT LETTER L 660 FEET FROM THE West LINE AND 1980 FEET FROM
THE South LINE, SECTION 1 TOWNSHIP 22-S RANGE 37-E N.M.P.M.

15. Elevation (Show whether DF, RT, GR, etc.)
3364 DF

7. Unit Agreement Name

8. Farm or Lease Name
Walter Lynch

9. Well No.
2

10. Field and Pool, or Wildcat
Paddock, Drinkard,
Wantz Granite Wash

12. County
Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <u>Downhole commingle Wantz and Drinkard as lower tbq. and dual w/Paddock-(upper tbq.)</u> <input checked="" type="checkbox"/>		OTHER <input type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- MIRU, Fish "N" plug in OSTSD @ 6939'.
- Run latch in standing valve & seat in "N" nipple @ 6939. POH.
- Rig down. Return to production.

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

SIGNED Cavan Mantel TITLE Production Staff Associate DATE 12-21-78

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

WAIVER

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

Gentlemen:

This is to certify that _____
is the operator of an oil and gas lease adjacent to Sun Oil Company's Walter
Lynch Lease in Lea County, New Mexico. We have been furnished a copy of their
application to downhole commingle the Walter Lynch Well No. 2 and dual with
the Paddock.

We have no objection to this application under the conditions set forth and
hereby waive rights of protest.

Very truly yours,

Texas Pacific Oil Company, Inc.

R. J. Womack

(Signed) R. J. Womack
Midland Regional Manager

(Title)

JAN 22 1979

REGISTRAR
SANTA FE

Executed this 17 day of January, 1979.

REC'D
JAN 22 1979
OCCASIONAL

WAIVER

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

Gentlemen:

This is to certify that SOHIO PETROLEUM COMPANY
is the operator of an oil and gas lease adjacent to Sun Oil Company's Walter
Lynch Lease in Lea County, New Mexico. We have been furnished a copy of their
application to downhole commingle the Walter Lynch Well No. 2 and dual with
the Paddock.

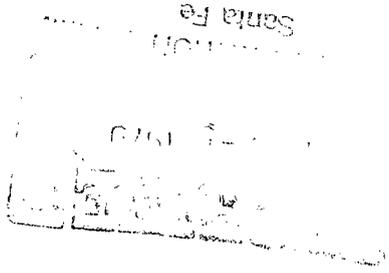
We have no objection to this application under the conditions set forth and
hereby waive rights of protest.

Very truly yours,

SOHIO PETROLEUM COMPANY

(Signed) *J. H. Walters*
District Superintendent
(Title)

Executed this 17th day of January, 1979.



WAIVER

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

Gentlemen:

This is to certify that Gulf Oil Corporation
is the operator of an oil and gas lease adjacent to Sun Oil Company's Walter
Lynch Lease in Lea County, New Mexico. We have been furnished a copy of their
application to multiple complete the Walter Lynch Well No. 2 and supporting
evidence.

We have no objection to this application under the conditions set forth and
hereby waive rights of protest.

Very truly yours,

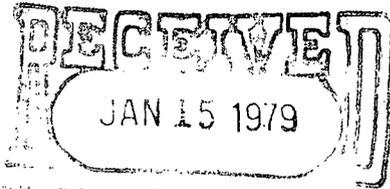
Well Location: 660' FWL & 1980' FSL,
Sec. 1, T-22-S, R-37-E, Lea County,
New Mexico.

B. J. Pankratz
(Signed) B. J. Pankratz
Manager-Engineering
(Title)

Executed this 31 day of January, 1979, 1978.



**Marathon
Oil Company**



P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

OIL CONSERVATION COM. A.
Santa Fe

January 11, 1979

Mr. Carson Muntzel
Sun Production Company
P. O. Box 1861
Midland, Texas 79702

Re: Waiver Request
Walter Lynch No. 2
660' FWL and 1980' FSL
Sec. 1, T-22-S, R-37-E
Lea County, New Mexico

Dear Mr. Muntzel:

Marathon Oil Company has reviewed your application for multiple completion on the above referenced well. We are returning the entire package to you because of the following:

1. The subject well was approved as a dual completion in 1974. (Order No. MC2142)
2. The diagramatic sketches furnished indicates that you intend for the well to remain a dual.
3. You desire to down-hole commingle the Drinkard and Wantz Granite Wash Zones, therefore, an application to down-hole commingle is in order.

Yours very truly,

A handwritten signature in black ink that reads 'Robert L. McLean'. The signature is written in a cursive, slightly slanted style.

Robert L. McLean
District Engineer

RLM:pr
Enclosures

cc: State of New Mexico
Energy and Minerals Dept.
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501 w/o enclosures

