



P.O. Box 2409  
Hobbs, New Mexico 88240  
Telephone 505/393-7106

May 22, 1980

DHC -

Due - 6/12/80

Mr. Joe D. Ramey  
Energy and Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

Re: Application of Marathon Oil Company for Approval of Down-Hole  
Commingling of Production in the Walter Lynch No. 6 (Unit F,  
Sec. 1-22S-37E), Drinkard and Wantz Granite Wash Oil Pools, Lea  
County, New Mexico.

Dear Mr. Ramey:

Marathon Oil Company requests your administrative approval for an  
exception to Rule 303-A to permit downhole commingling of production  
in the subject well from the Drinkard and Wantz Granite Wash Pools.

Currently, the Drinkard zone is flowing and the Wantz Granite Wash  
zone is being produced with a pumping unit. Both zones are classified  
as oil zones. Ownership of the two zones is common. The total daily  
oil production from both zones before commingling does not exceed 50  
Barrels per day. Neither zone produces more water than the combined  
oil limit. Upon approval to down-hole commingle, both zones will be  
produced with a pumping unit.

Additional information concerning this application as outlined in Rule  
303-C is attached for your consideration.

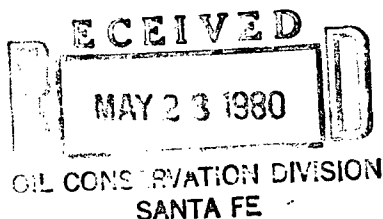
Very truly yours,

*Patrick N. Burton*

Patrick N. Burton  
Production Engineer

PNB:lbp

Enclosure



Bottom of 7455'

MC-2244 ✓

Dr 1080 63%  
2W 6 37%  
16

300mef 43%  
22 7  
322

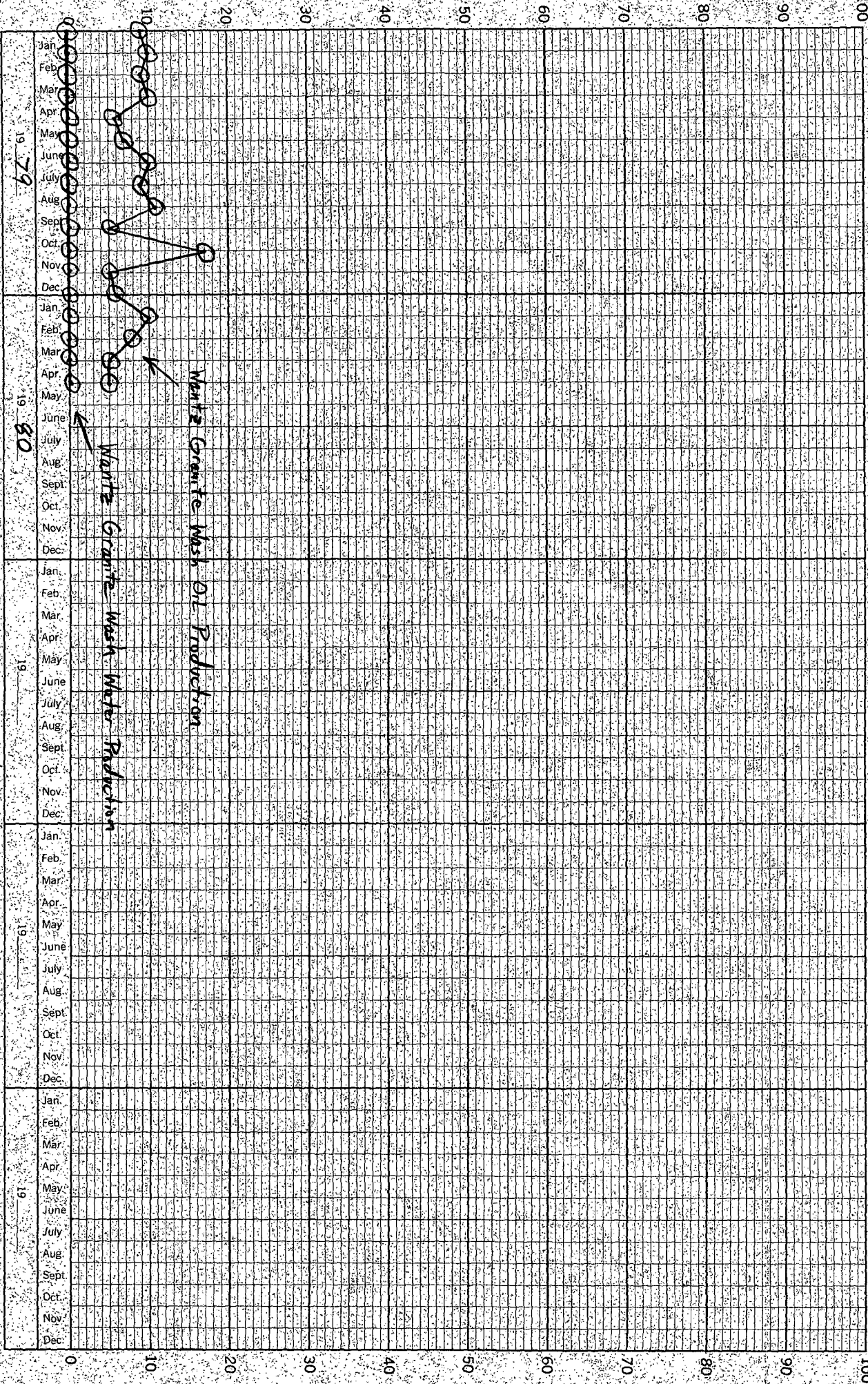
May 22, 1980

Rule 303 C-2 Information

- A. Operator: Marathon Oil Company  
P.O. Box 2409  
Hobbs, NM 88240
- B. Lease: Walter Lynch No. 6  
Unit F. Sec. 1, T-22S, R-37E  
Lea County, New Mexico
- C. Well is completed in the Drinkard and Wantz Granite Wash pools as a dual completion per Administrative Order MC-2244.
- D. C-116 dated 5-20-80 for Drinkard zone and C-116 dated 5-20-80 for the Wantz Granite Wash are attached.
- E. Production curves for both the Drinkard and Wantz Granite Wash zones are attached.
- F. Bottom Hole Pressure Data:  
✓ Drinkard: Datum - 6403' Pressure at Datum 1254 PSI\*  
✓ Wantz Granite Wash: Datum - 3900' Pressure at Datum 1390 PSI\*
- G. Fluid Characteristics: There is no evidence of incompatibility in fluids.
- H. Valve of Commingled Fluids: Drinkard and Wantz Granite Wash production have been surface commingled on this Lease per Administrative Order PC-534, dated October 15, 1976. Since production is already commingled on the surface, downhole commingling will not affect the price.
- I. All offset operators have been notified by a copy of this application:
- |                       |               |                   |       |
|-----------------------|---------------|-------------------|-------|
| City Services Company | P.O. Box 1919 | Midland, Texas    | 79702 |
| Exxon Corp.           | P.O. Box 1600 | Midland, Texas    | 79701 |
| Sun Oil Co.           | P.O. Box 1861 | Midland, Texas    | 79702 |
| Gulf Oil Co.          | P.O. Box 670  | Hobbs, New Mexico | 88240 |
| Getty Oil Co.         | P.O. Box 730  | Hobbs, New Mexico | 88240 |
| Arco Oil and Gas Co.  | P.O. Box 1710 | Hobbs, New Mexico | 88240 |

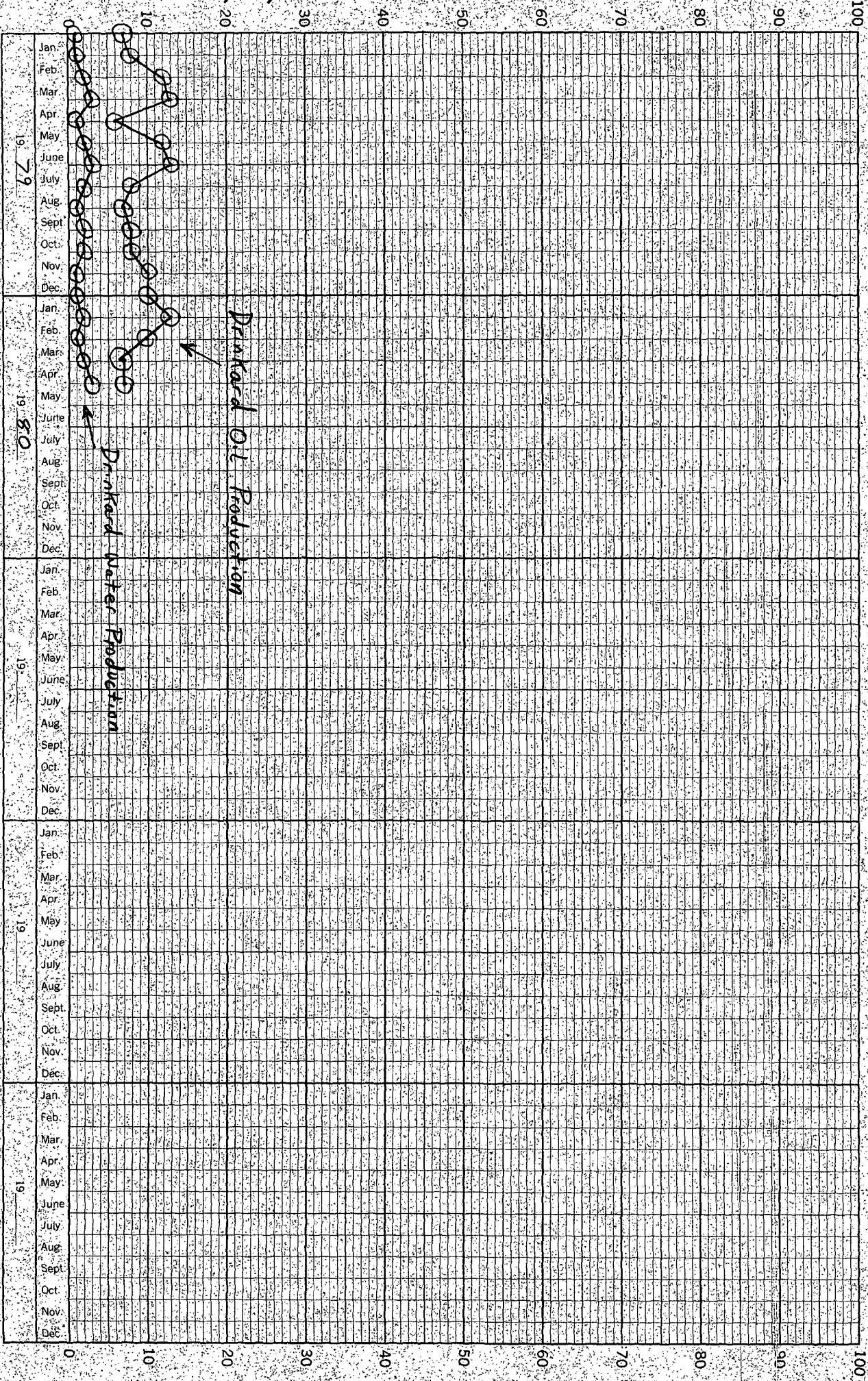
\*Estimates based on most recent available BHP data within vicinity of well.

BBL/Day



Walter Lynch #6  
Marathon Oil Co.

Barrels/Day



Walter Lynch #6  
Marathon Oil Co.

**NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS**

C-116  
Revised 1-1-65

Operator <b>Marathon Oil Company</b>		Pool <b>Drinkard</b>		County <b>Lea</b>	
Address <b>P.O. Box 2409 Hobbs, New Mexico 88240</b>				Type of Test - (X) <input checked="" type="checkbox"/> TEST - (X)	
				Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>	
LEASE NAME <b>Walter Lynch</b>	WELL NO. <b>6</b>	LOCATION U S T R <b>F 1 22S 37E</b>			DATE OF TEST <b>5-20-80</b>
					STATUS <b>F</b>
					CHOKE SIZE <b>21/64</b>
					TBG. PRESS. <b>250</b>
					DAILY ALLOW-ABLE <b>13</b>
					LENGTH OF TEST HOURS <b>24</b>
					PROD. DURING TEST WATER BBLs. GRAV. OIL BBLs. GAS M.C.F. CU.FT./BBL.
					<b>1 47 10 300 30,000</b>

**RECEIVED  
MAY 23 1980  
OIL CONSERVATION DIVISION  
SANTA FE**

No 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 allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

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 301 and appropriate pool rules.

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

*Patricia Bentes*  
(Signature)

**Production Engineer**  
(Title)

**May 20, 1980**  
(Date)

**NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS**

C-116  
Revised 1-1-65

Operator <b>Marathon Oil Company</b>		Pool <b>Wantz Granite Wash</b>		County <b>Lea</b>		
Address <b>P.O. Box 2409 Hobbs, New Mexico 88240</b>				Type of Test - (X) <input checked="" type="checkbox"/> TEST - (X)		
LEASE NAME <b>Walter Lynch</b>		WELL NO. <b>6</b>	LOCATION U <b>F</b> S <b>1</b> T <b>22S</b> R <b>37E</b>		DATE OF TEST <b>5-20-80</b>	
					STATUS <b>P</b>	
					CHOKE SIZE <b>-</b>	
					TBKG. PRESS. <b>30</b>	
					DAILY ALLOW-ABLE <b>10</b>	
					LENGTH OF TEST HOURS <b>24</b>	
					PROD. DURING TEST WATER BBLs. <b>32</b> GRAV. OIL BBLs. <b>40</b>	
					OIL BBLs. <b>6</b> GAS M.C.F. <b>22</b>	
					GAS - OIL RATIO CU.FT./BBL. <b>3667</b>	

**RECEIVED**  
**MAY 23 1980**  
**OIL CONSERVATION DIVISION**  
**SANTA FE**

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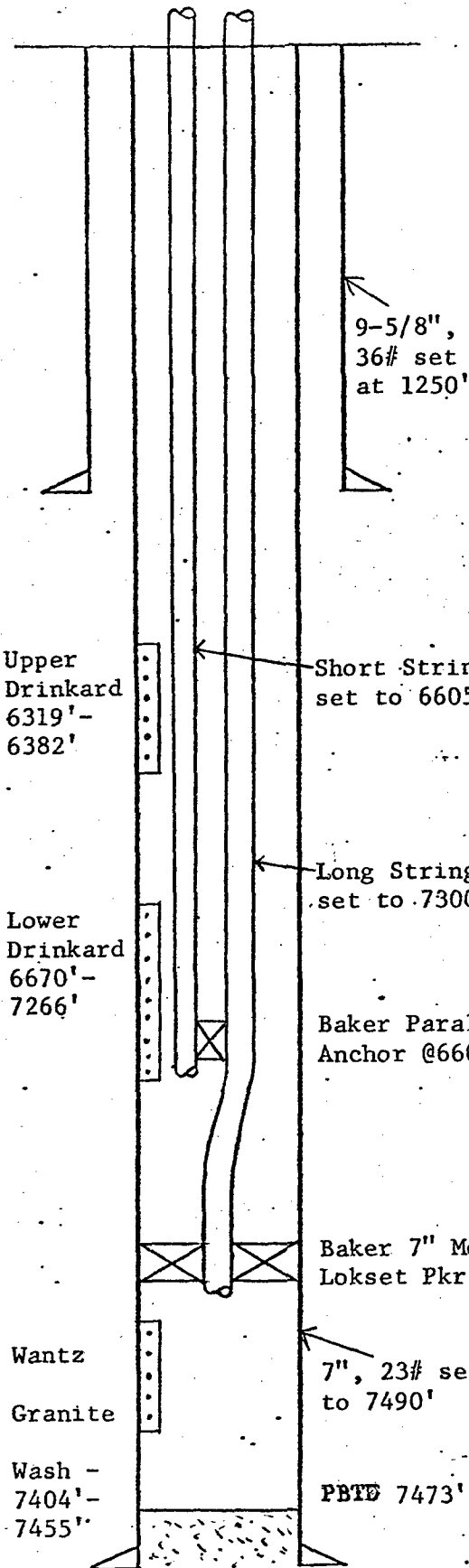
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

*Patricia Burton*  
(Signature)  
Production Engineer  
(Title)  
May 20, 1980  
(Date)

# WELL DATA SHEET



FIELD Drinkard

LEASE & WELL NO. Walter Lynch #6

LOCATION Unit E, S-1, T-22S, R-37E

COUNTY & STATE Lea County, New Mexico

STATUS Pumping Granite Wash, Flowing Drinkard  
(Pumping, Flowing, Gas-lift, etc.)

TD 7491' PBD 7473' DF/KB 3364' GL 3353'

SURFACE CASING 9-5/8" 36lb/ft set @ 1251' with 650 sx

Class C cement.

INTERMEDIATE CASING

Short String 2-3/8"  
set to 6605'

PRODUCTION CASING 7" 23 lb/ft set @ 7490' with .2 stage

cement job. 1st Stage- 350 sx lite + 700 sx Class C

50/50 Pox. 2nd Stage- 2400 sx Class C.

Baker Parallel  
Anchor @6605'

TUBING 2-3/8" tubing 4.7 lb/ft J-55 in both strings

Baker 7" Model A-2  
Lokset Pkr. @ 7300'

7", 23# set RODS 7/8" and 3/4" rods  
to 7490'

PBD 7473'

PUMPING UNIT 320 pumping unit

PRESENT COMPLETION Wantz Granite Wash- 7404'-7455'  
(Formation & Interval)

Lower Drinkard- 6670'-7266'. Upper Drinkard- 6319'-

6382'.

HISTORY Drilled 11/75

PREPARED BY

DATE





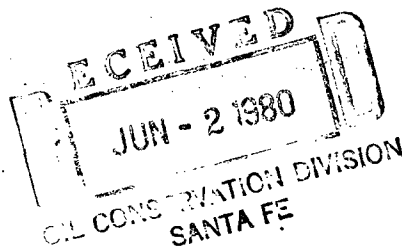


OIL CONSERVATION DIVISION  
DISTRICT I

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE May 26, 1980

RE: Proposed MC \_\_\_\_\_  
Proposed DHC X \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed NSP \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_



Gentlemen:

I have examined the application for the:

Marathon Oil Company	Water Lynch #6-	F	1-22-37
Operator	Lease and Well No.	Unit, S - T - R	

and my recommendations are as follows:

OK -- Jerry Sexton

Yours very truly,

A handwritten signature in cursive script, appearing to read "Jerry Sexton", written over a horizontal line.

msc