



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

JUL 31 1978

MIDLAND, TEXAS 79702
P. O. BOX 3000

MIDLAND DISTRICT

July 26, 1978

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

DHC # 257
Due - 8/21/78

Re: Hinton 12 #13
Unit L, Sec. 12, T22S, R37E
Drinkard & Wantz Granite Wash Dual ✓ ✓
Lea County, New Mexico
Request for Administrative Approval
to Downhole Commingle the Drinkard
and the Wantz Granite Wash Pools

Dear Sir:

Administrative approval is requested for an exception to Rule 303-A to permit downhole commingling of production in the caption well from the Drinkard and the Wantz Granite Wash pools. Production from the same two pools is presently being commingled downhole in Texaco's A. H. Blinebry Federal (NCT-1) Well #38, located in Unit J, Sec. 19, T22S, R38E, NMPM, Lea County, New Mexico. This is case No. 6159, Order No. R-5657. There is no evidence of fluid incompatibility and we do not expect any reservoir damage due to downhole commingling in this wellbore. Ownership of the two pools is common and correlative rights will not be violated.

The present combined Drinkard and Wantz Granite Wash production rates are within the NMOCC downhole commingling requirements. We propose to remove the present packer and lower the pump to below the known producing interval in the Granite Wash. Artificial lift will be required for both zones.

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

Yours truly,

J. H. Walters
District Superintendent

DAK/or

Attachments

cc: Exxon Company, USA
P. O. Box 1600
Midland, TX 79701

ATTN: Mr. J. M. Shepherd

Mobil Oil Corp.
P. O. Box 633

Midland, TX 79701

ATTN: Mr. John D. Howard

Marathon Oil Company
P. O. Box 552

Midland, TX 79701

ATTN: Mr. G. A. Naert

Mr. John H. Hendrix

403 Wall Towers West

Midland, TX 79701

Hinton 12 #13

2179

2172

2133

2147

- (1) Sohio Petroleum Corporation
P. O. Box 3000
Midland, TX 79702
- (2) Hinton 12 #13
Unit L, Sec. 12, T22S, R37E
Lea County, NM
- (3) Decline Curve: Attached
- (4) Well History: This well was drilled to 7295' penetrating a portion of the Granite Wash. It was plugged back to 7250' and completed as an oil well in the Drinkard from perforations 6245 to 6832. In September of '74, the well was recompleted in the Granite Wash and dualled with the Drinkard. The Granite Wash perforations are from 7161' to 7207'. The Drinkard and the Granite Wash were both fracture treated at this time. About January, 1975, the Drinkard zone was reclassified as a gas well producing from an oil reservoir. As such, it produced the gas allowable and had capacity to produce in excess of the allowable. It had been shut in for several months in 1975 to make up over production. In the latter part of 1976, it was deepened in the Granite Wash to a TD of 8129'. A temperature survey indicates a producing interval in the open hole section from 7300' to approximately 7450'. Several flow tests were made, separate and commingled. (See attached copy.) Following the deepening, the Drinkard produced with a GOR of less than 100,000 cu. ft./BBL.
- (5) Estimated Bottom Hole Pressures
Granite Wash Zone 1900 PSI
Drinkard Zone 3000 PSI
- (6) Fluid Characteristics: The Drinkard and the Granite Wash are presently being commingled downhole in Texaco's A. H. Blinbry Federal (NCT-1) Well #38, Unit J, Section 19, T22S, R38E, Lea County. There has been no evidence of fluid incompatibility.
- (7) Value of commingled fluids: Drinkard and Wantz Granite Wash production are presently being surface commingled on this lease. Since production is already being commingled on the surface, downhole commingling will not affect the price.
- (8) Current Production Test: See attached C-116.
- (9) Offset operators, as indicated below, have been furnished a copy of this application.

Exxon Company, USA, P. O. Box 1600, Midland, TX 79701, ATTN: Mr. J. M. Shepherd
Mobil Oil Corp., P. O. Box 633, Midland, TX 79701, ATTN: Mr. John D. Howard
Marathon Oil Company, P. O. Box 552, Midland, TX 79701, ATTN: Mr. G. A. Naert
Mr. John H. Hendrix, 403 Wall Towers West, Midland, TX 79701

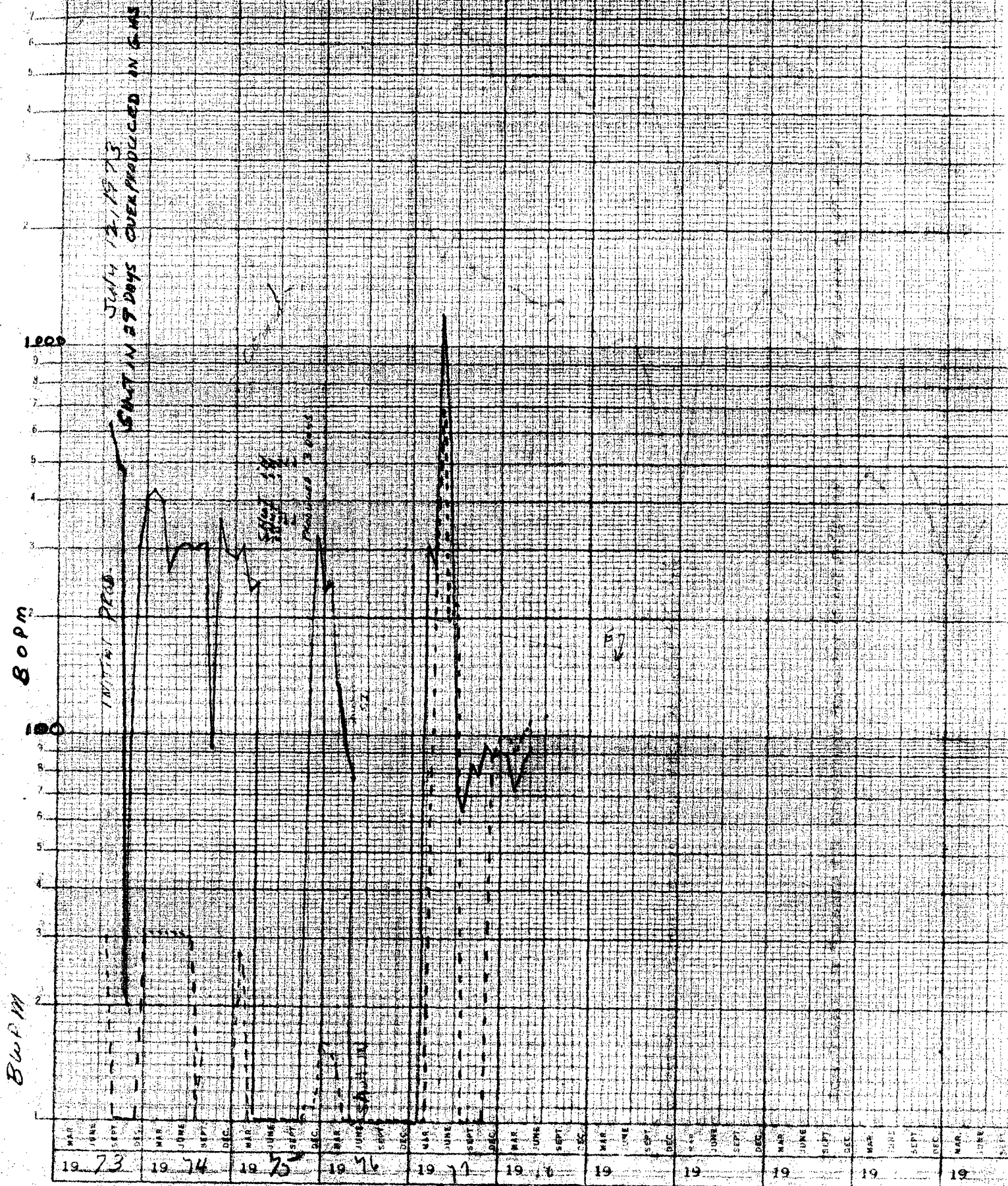
DAK/or

Dr 2 BO 1170 246 mcf 85%
Gr W. 17 BO 54% 43 mcf 15%
19 289

Max prod = 50 BOPD

Wantz Gr W GOR allow: 2000

SOHIO PETROLEUM CO HINTON 12 #13 - DRINKARD



SOHIO PETROLEUM CO
HINTON 12 H 13 - WANTZ GRANITE MASI

BOPM

1000

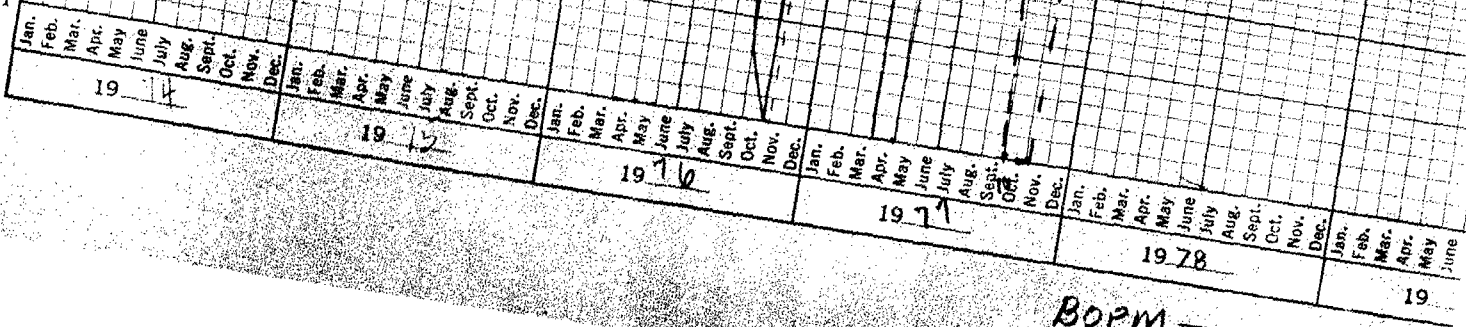
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50

100

100

SECTION



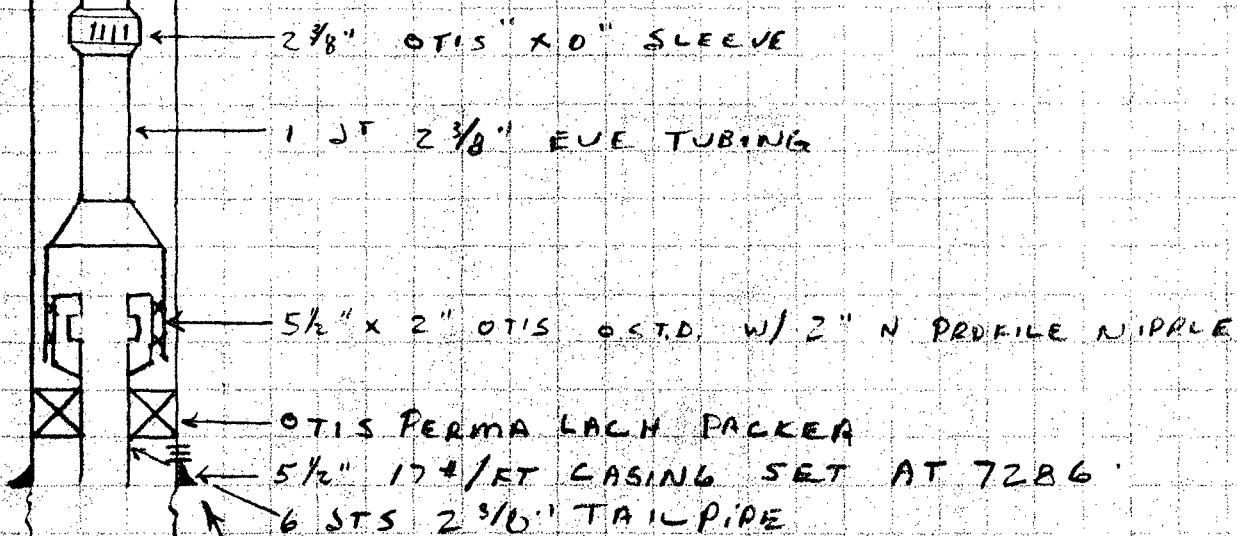
SOHIO PETROLEUM CO.
HINTON 12 # 13

DRINKARD - WANTZ GRANITE WASH DUAL

TUBING SETTING:

12.00	RKB
7043.90	229 JTS 2 3/8" EUE
2.88	OTIS X O SLEEVE
29.50	1 JT 2 3/8" EUE
1.35	OTIS O.S.T.D. W/N PROFILE NIPPLE
5.90	OTIS PERMA LACH PACKER
<u>185.79</u>	6 JTS 2 3/8" EUE TAIL PIPE
7281.32	

← Drinkard Pkts 6245-6932' (26 holes)



← Granite Wash Pkts 7167-770', OH 7226-8129'

← TEMP. LOG INDICATES PRODUCTIVE INTERVAL 7302-7448'

← 4 3/4" OPEN HOLE TO 8129'

Clinton 12 #13

Brinkard

Granite Wash

TOTAL

REMARKS

	OIL	WTR	Gas	Oil	WTR	Gas	OIL	WTR	GAS	SER PUMP UNIT COMINGLES
1976 Oct	-0-	-0-	-0-	761	200	4024	761	200	4024	10-2
Nov	-0-	-0-	-0-	813	410	4755	813	410	4755	
Dec	-0-	-0-	-0-	809	102	10187	809	102	10187	
1977 Jan	-0-	-0-	-0-	573	110	7295	573	110	7295	
Feb	309	-0-	-0-	501	98	2936	810	98	2936	
Mar	266	300	222	1190	31	1166	1456	331	1388	3-6
Apr	1206	770	1527	-0-	-0-	-0-	1206	770	1527	3-26
May	571	200	1268	543	300	6109	1114	500	7377	5-9
June	72	220	842	651	330	6433	723	550	7275	6-27
July	64	-0-	1346	771	300	8507	835	300	9853	
Aug	85	200	1980	538	340	6265	623	540	8245	
Sep	80	240	1903	582	320	6395	632	560	8298	
Oct	94	100	1476	817	220	7614	911	320	9090	
Nov	90	90	1035	784	200	7383	874	290	8418	9-22
Dec	91	100	1165	552	220	8496	643	320	9661	
1978 Jan	89	100	1028	620	200	11,016	709	300	12044	
Feb	72	90	901	521	190	2905	593	280	3806	
Mar	87	100	1077	553	210	2954	640	310	4031	
Apr	91	110	1074	473	230	2100	564	340	3174	
May	84	115	1005	340	235	2797	424	340	3802	

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County												
Sohio Petroleum Company		Wantz Granite Wash and Drinkard		Lea												
Address		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Scheduled <input type="checkbox"/>		Special <input checked="" type="checkbox"/>										
P. O. Box 3000, Midland, TX 79702																
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL			
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.	
Hinton 12 Wantz Granite Wash	13	L	12	22S	37E	7-22-78	P	OPEN		38	24	3	40.0	17	245.8	14459
	13	L	12	22S	37E	7-22-78	F	OPEN	-	56	24	0	42.0	2	42.8	21400
Hinton 12 Drinkard																

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.



(Signature)

District Superintendent
(Title)

July 26, 1978
(Date)