WALM OFFICE 000 TEXACO INC.

PETROLEUM PRODUCTS

DRAWER 728 HOBBS, NEW MEXICO 88240

January 16, 1970

DHC-35 Dhe Feb 9

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New Mexico Oil Conservation Commission P. 0. Box 2088 Santa Fe. New Mexico 87501

> Re: Wellbore Commingling New Mexico "Q" State No. 4 Vacuum Abo, North and Vacuum Wolfcamp Pools Lea County, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

TEXACO Inc. respectfully requests administrative approval to wellbore commingle oil and gas production from the Vacuum Abo, North and Vacuum Wolfcamp Pools which are multiply completed in TEXACO's New Mexico "Q" State Well No. 4. The well is located in Unit P, Section 25, T-17-S, R-34-E, Lea County, New Mexico. At the present time, the well is a triple completion in the two subject pools along with the Vacuum Upper Pennsylvanian Pool.

During a workover on the Abo zone in July, 1967, additional pay was being opened and a perforation at 8,430 feet inadvertently communicated the Abo and Wolfcamp casing strings. A string of 2-1/16" tubing and packer was run in the 2-7/8" Wolfcamp casing string to resegregate the two zones with Wolfcamp production flowing through the 2-1/16" tubing. In March, 1968, the Wolfcamp zone ceased to flow and attempts to place the zone on rod pump were unsuccessful due to a restriction in the 2-1/16" tubing at approximately 5.700'.

The subject well qualifies for wellbore commingling under the provisions of Order R-3845 in that both zones are classified as oil zones and produce oil and water volumes within the prescribed limits. The fluids are compatible as evidenced by four years of surface commingling. Total value of the crude will not be reduced by wellbore commingling. Further, all mineral ownership is common and secondary recovery operations will not be jeopardized. Commingled production will be artificially lifted up the Wolfcamp string with gas being vented through the Abo string.

New Mexico Oil Conservation Commission

January 16, 1970

Attached is a well data sheet, production decline curve for both zones, Form C-116, and a copy of a recent bottom hole pressure on the flowing Abo zone, which is the only zone capable of flowing.

A list of offset operators is also attached, each of whom is receiving a copy of this letter.

Yours very truly,

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WE Morgan

W. E. Morgan District Superintendent

BRH-cr Attachments cc: NMOCC-Hobbs VSP

## DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO INC.						
Address: P. 0. Box 728 - Hob	bs, New Mexico 88240					
Lease and Well No: New Mexico	"Q" State No. 4					
Location: Unit P ;	500 Feet from the	South Line and				
760 Feet from	East Line of Section	on <u>25</u> ;				
Township 17-S	, Range_34-E;	Lea County.				
Multiple Completion Order No. WELL DATA	MC-1420					
	Upper Pool	Lower Pool				
Name of Pool	Vacuum Abo, North	Vacuum Wolfcamp				
Producing Method	Flow	SI (See cover letter)				
ВНР	<u>2775 psi (Bomb 1-8-70)</u>	1850 psi (Est.)				
Type Crude	Intermediate Sweet	Intermediate Sweet				
Gravity	39.8°	38.7°				
GOR Limit	2000:1	2000:1				
Completion Interval	8420'-9251'	9550'-10,005'				
Current Test Date	January 10, 1970	Sept. 6, 1967				
011	9	46				
Water	0	46				
GOR	4444	1006				
Selling Price of Crude-\$/BBL.	\$3.34	\$3.32				
Daily Income - \$/Day	\$30.06	\$152.72				

## COMMINGLED DATA:

Gravity of Commingled Crude	39.0°
Selling Price of Commingled	Crude - \$/BBL\$3.34
Daily Income - \$/Day	.70

Net (Gain) (**Heres**) From Wellbore Commingling - \$/Day <u>0.92</u> based on current producing rates.

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•	-			RATIO CU.FT/BBL	4444	1006		-		. <u></u>			rmation / know-			ndent		
		Special X	0	GAS R. M.C.F. CU.F	01	46.3	<u></u>		<del></del>	<u>\</u>		 	I hereby certify that the above information is true and complete to the best of my know- ledge and belief.		-	Assistant District Superintendent		
C-116 Revised 1-1-65			4G TEST			<u></u>						 	that the ste to the	7	(Mature)	rict S	1970	(Date)
C-116 Revise			PROD. DURING	V. 01L	6	2 17	· <u> </u>					 	certify comple selief.			t Dist		
		Completion	PROD	ER GRAV.	39.8	38.7						 	I hereby certify is true and compl ledge and belief.		R	istan	January 16.	
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	County		LENGTH	V- TEST HOURS	54	л24			<u>.</u>			 	well is signed	y base	se with		7	
EEVATION COMMISSION   ATIO TESTS   & Vacuum Wolfcamp   TYPE OF   TST - (X)   Scheduled   Scheduled   TST - (X)   Size   PRESS   ALLO   Size   PRESS   ALLO   T   32/64   110   12			DAILY		71	0 Shut-In							in which can be as	bific gravit	accordanc			
	Volfce	Sch	TBG.	P R ESS.		Swab					•		r the pool that well	Je F. Spet	uission in			
	acuum V	н ог 1 (X)	CHOKE	SIZE	32/64	Swab					DNIJDN		t. owable for e in order	ature of 60	tion Comr			
	·····						IIWWO:		cial test unit all toleranc	temper	onserve							
OIL CONS AS - OIL F	o. North	i i	DATEOF	TEST	1-10-70	6-6-67					DOWNHOLE COMMINGLING		roduced on the official test. • exceeding the top unit allowable for the pool in which well is of this 25 percent tolerance in order that well can be assigned	15.025 psia and a temperature of 60° F. Specific gravity base through casing.	New Mexico Oil Conservation Commission in accordance with			
IEXICO G	Vacuum Abo.			æ	34E	34E					TO DO		l produce not excee ge of this	e of 15.0				
N EW			LOCATION	-	S/T	175		<u>_</u>			FRIOR		unt of oi a rate advantag	sure base ell produc	office of			
	Pool	88240	LOC LOC	S	25	25					TESTS 1		the amo duced at to take	it a pres or any we	district o			
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		New Mexico	WELL	NO.	4	4			_		THESE /	i	able grea ell shall or is enc the Comn	MCF mei tubing pro	is report			
					•								an allow each w Operati ized by	orted in i	oy∶of thi es.			
	erator TEXACO Inc.	C C		LEASE NAME	New Mexico "Q" State (Vacuum Abo, North)	New Mexico "Q" State (Vacuum Wolfcamp)					NOTE		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 allo located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance increased allowables when authorized by the Commission.	Gas volumes must be reported in MCF measured at a pressure base of will be 0.60. Report casing pressure in lieu of tubing pressure for any well producing	Mail original and one copy of this report to the district office of the Rule 301 and appropriate pool rules.			
	Operator	Address			Ne (V	Ne (V						 						

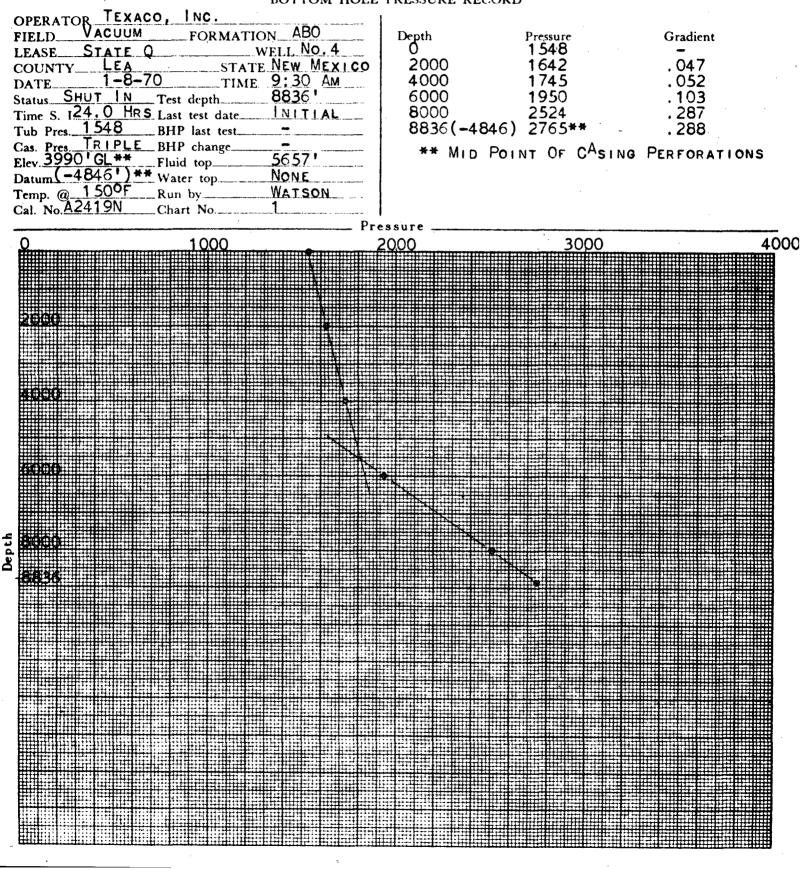
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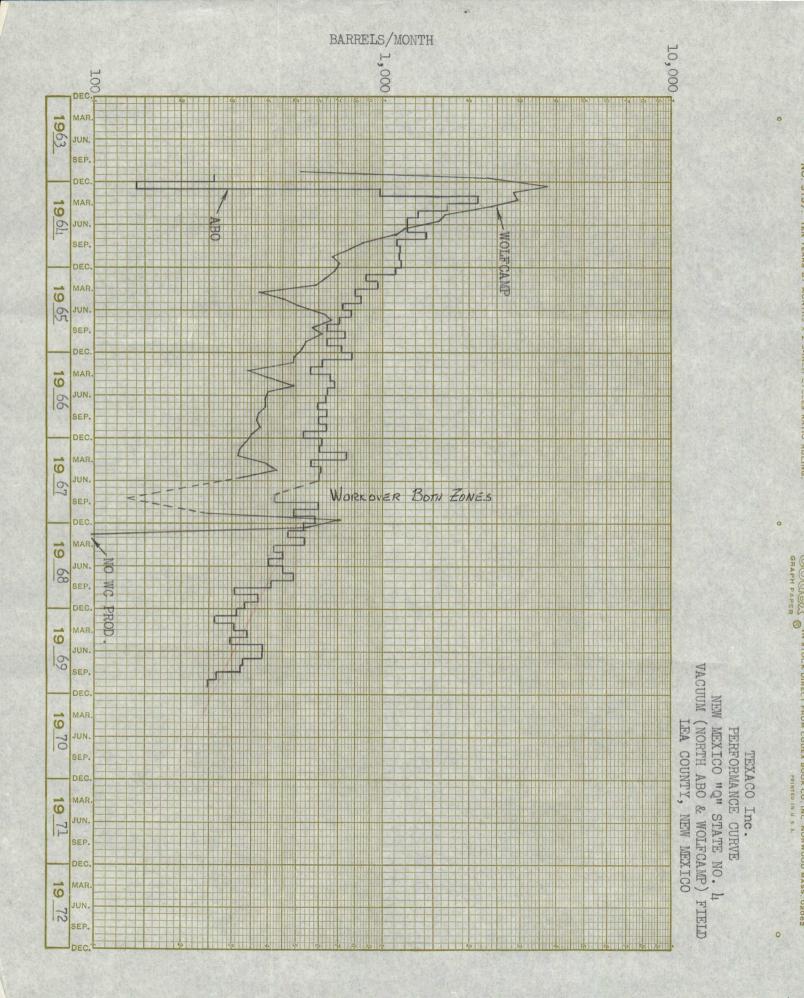


## COLEMAN PETROLEUM ENGINEERING COMPANY

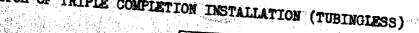
PHONE EXPRESS 3-3813 611 GRIMES P. O. BOX 1829 HOBBS, NEW MEXICO

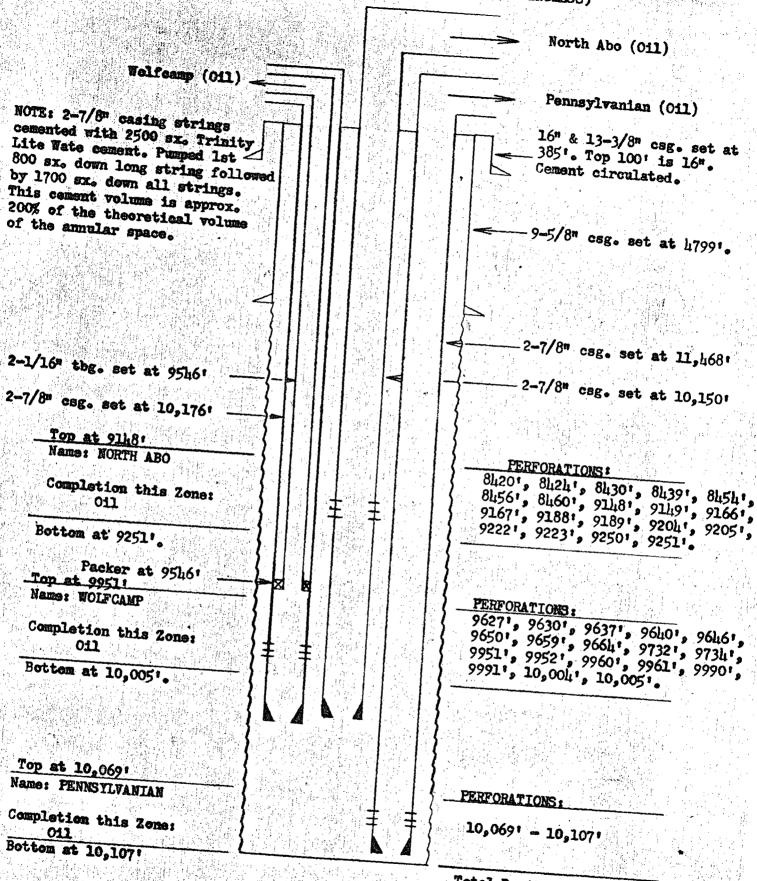
BOTTOM HOLE PRESSURE RECORD





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LEASE: State of New Maxico "Q" Well No. 4 FIELD: Vaguum (N. Abo, Wolfcamp & Pennsylvanian) DATE: January 10, 1970

Total Depth at 12,285: Cement plug set in open hele from 12,285: to 11,468:

## OFFSET OPERATORS TEXACO INC. NEW MEXICO "Q" STATE LEASE

Getty Oil Company P. O. Box 1231 Midland, Texas 79701

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

Mobil Oil Company P. O. Box 633 Midland, Texas 79701

Shell Oil Company P. O. Box 1509 Midland, Texas 79701

February 10, 1970 Texaco Tric. Drawer 728 Hobbs New Mexico 88240 Attention: Mr. W.E. Margan Re: Administrative Order No. DHC:35 Gentlemen : In order for the Hobbs District Office to be able to assign an allowable to your New Mexico Q State Well No.4, after commencing commingled production you are requested to submit one production test per week for a period of one month to the Janta Fe and Hobbs Offices of the Oil Conservation Commission. At the end of the One-month test period allocation of production on a percentage basis will be detirmined and a revised copy of Administrative Order No. DHC-28 will be forwarded to your office V t y AL Porter Jr. Sec - Dir.