DHC- 193 Due-5/10/76



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79761 PHILLIPS BUILDING

NATURAL RESOURCES GROUP Exploration and Production

April 14, 1976



Application for Exception to Statewide Rule No. 303-C to Down-Hole Commingle Production from the Ranger Lake Bough and Ranger Lake Penn Pools - Ranger Well No. 10, Lea County, New Mexico

File: W4-Ta-198-76

New Mexico Oil Conservation Commission - 2ν P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey,

Secretary-Director

Gentlemen:

We respectfully request administrative approval, subject to the twenty day waiting period, to down-hole commingle production from the Ranger Lake Bough and Ranger Lake Penn Pools in our Ranger Well No. 10, located in Unit D, 660' FN line and 660' FW line of Section 26, T-12-S, R-34-E, Lea County, New Mexico, as provided by Statewide Rule No. 303-C. Pertinent well and production data follows:

- 1. Both zones to be commingled in the well bore are classified as oil zones and both zones require artificial lift.
- 2. The total daily production from the two zones before commingling does not exceed 80 BOPD as allowed for the deepest perforations in the lower zone. Further, neither zone produces more water than the combined oil limit as determined above.
- 3. The Penn zone of this well bore was completed in October of 1959 through perforations 10,203' to 10,310'. Our last official well test on the Penn zone was in June of 1974, producing 11 BOPD, 44 BWPD, GOR TSTM, Gravity 40.0 Degrees. The Penn zone was temporarily abandoned and the well bore recompleted in the Bough zone in July, 1974. Bough zone completion is through selected perforations between 9926' and 9956'. On test dated April 4, 1976, the Bough produced 3 BOPD, 36 BWPD, with a GOR of 1000/1 and oil gravity of 40.9 degrees. The oil and/or water production is compatible one zone with the other and there should be no undue formation of precipitates from combined produced waters or hydrocarbons. We attach formation water analysis on each zone.

Phillips Petroleum Company File: W4-Ta-198-76 April 14, 1976 Page 2

- 4. Crude gravities are; Bough-40.9 degrees, Penn-40.0 degrees. These crudes are classified as intermediate sweet with a posted price of \$12.68 for 40 degrees gravity (and above) crude. Consequently, there would be no difference in the price of combined crude over that of the crudes produced and sold separately. Royalty and working interest are common throughout and there is no overriding royalty. The State royalty beneficiary is Common School Land.
- 5. Bottom hole pressures are estimated at 2000 psi for the Bough and 2500 psi for the Penn.
- 6. Our forecast of production is; first year, Bough-5 BOPD, 35 BWPD; Penn-10 BOPD, 40 BWPD. Second year, Bough-5 BOPD, 40 BWPD; Penn-10 BOPD, 40 BWPD. We attach prior production statistics on each zone.
- 7. Completion history; spudded on 8-8-59; TD of 10,352' on 9-25-59 Elevation-4165' RKB. 8-5/8" casing set in 12\frac{1}{4}" hole at 2000' and cemented with 505 sacks regular cement with 10\hat{000} and 2\hat{000} CaCl2 followed by 150 sacks regular cement with 1\hat{000} CaCl2 and cement circulated at the surface; 5-1/2" casing set in 7-7/8" hole at 10,351', cemented with 1187 sacks regular cement with 40\hat{00} DD and 150 sacks TrIF. Temperature survey TOC at 308'. Penn-October, 1959 1000 gals 15\hat{000} HCL acid at maximum pressure of 1000\hat{000}; November, 1959 12,000 gals retarded acid at maximum pressure of 4000\hat{000}; January, 1960 2000 gals 15\hat{000} HCL acid at maximum pressure of 1000\hat{000}. Bough-August, 1974 1000 gals 15\hat{000} HCL acid at maximum pressure of 4800\hat{000}.

We propose to allocate production to each zone based on the individual well test established herein and reflected on the attached Form C-116.

Since the Penn zone has been temporarily abandoned, no application for the multiple completion of these zones has been filed. We have filed Form C-103 withethe Hobbs District office covering the proposal to down-hole commingle these zones in the well bore. Your approval of this down-hole commingle without the formality of an approved multiple completion is requested. Subject to your approval, the operation of down-hole commingling these zones will be performed.

Offset operators are hereby notified, with the request that their original waivers of objections be mailed direct to your attention, and a copy sent to this office. Mr. R. J. Stringer, telephone Odessa (915) 337-8611, will answer any questions on this application.

Phillips Petroleum Company File: W4-Ta-198-76 April 14, 1976 Page 3

Your consideration and advice will be appreciated.

Yours very truly,

T. Harold McLemore

PHILLIPS PETROLEUM COMPANY

THM:db
Attachments

. 33

cc: New Mexico Oil Conservation Commission Box 1980 Hobbs, New Mexico 88240

Offset Operators:

American Trading and Production Company Drawer 992 Midland, Texas 79701

Amoco Production Company Box 68 Hobbs, New Mexico 88240

Gordon M. Cone Box 1148 Lovington, New Mexico 88260

Exxon Corporation
Box 1600
Midland, Texas 79701

Getty Oil Company Box 1231 Midland, Texas 79701

Corine Grace
Box 763
Hobbs, New Mexico 88240

Texaco, Inc.
Box 3109
Midland, Texas 79701

max (10310 max (10310) 3370 Bough - 10 Br DD = 6170 Perm 15 Phillips Petroleum Company Production Statistics - Oil Ranger No. 10.

Ranger Lake (Penn)

1-1-71 through 4-30-73 Shut down.

Ranger Lake (Bough)

Month/Year BO 5-73 213 6-73 522 7-73 474 8-73 521 9-73 1405 10-73 754 11-73 942 12-73 1106 1-74 635 2-74 774 3-74 1007 4-74 1038 5-74 1084 6-74 1050 Shut down-temporarily abandoned	Month/Year 7-74 8-74 9-74 10-74 11-74 12-74 1-75 2-75 3-75 4-75 5-75 6-75 7-75 8-75 10-75 11-75 12-75 1-76 2-76	BO 1189 2777 2162 1930 1441 1117 922 765 523 1084 682 — 764 590 356 529 483 434 647 309
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IRTON DIVISION LABORATIRY	HORNERD FIL
HALLIBURTON COMPANY	
LOVINGTON, NEW MEXICO	

To Phillips Petro	leum Co.	Date_	9-11-74
Box 1178		This report is the prope	orty of Halliburton Campany and neither
Lovington, N.	Mex.	or disclosed without fir	nor a copy thereof is to be published st securing the express written approva nent; it may however, be used in the
		course of regular busing	ess operations by any person or concert receiving such report from Halliburton
			0.40.74
Submitted by			9-10-74
Well No. As Indicated	Depth	Formation	Bough
County	Field Bang	FN LAKE Source	
·	Ranger #10	Ranger #15	A Contague
Resistivity	0.082 @ 70°F	0.090 @ 70°F	
Specific Gravity	1.068	1.062	
pH		7.3	
Calcium (Ca)	ti P m m	3330	*MPI
Magnesium (Mg)	Oha	684	
Chlorides (CI)		55000	
Sulfates (SO ₄)		7540	
Bicarbonates (HCO ₃)	450	256	
Soluble Iron (Fe)		Nil	
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Remarks:			*Milligrams per liter
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	Respect	fully submitted,	
Analyst. Griffin		HAILIRUPTON	N COMPANY
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NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON COMPANY LOVINGTON, NEW MEXICO

No. W3-165-64

LABORATORY REPORT

March 9, 1964

70 Phillips Petroleum	Company	This report is the property of Hall it nor any part thereof nor a copy	thereof is to be published or
Box 1178		disclosed without first securing the laboratory management; it may he	e express written approval of
Lovington. New Mex	1∞	of regular business operations by a players thereof receiving such repo	ny person or concern and em-
		Date Received	·
Well & Lease	·	Depth Formation _	Penn
Location	Fleid	Ranger Lake Source	Heater Treater
	Heater Treater	Fresh Water	
Specific gravity 60/60 TF	1.094	1.003	
Color, filtrate	Colorless	Colorless	• • •
pH .		7.8	
Resistivity	ND	ND .	
Chlorides, Cl	ppm (mpl) 80,000	140	•
Sulfates, SO4	2,800	1,500	•
Alicalinity, HCO3	ND	MD .	
Calcium, Ca	8,800	65	
Magnesium, Mg	1,260	29	
Iron, Fe	Negl.	Negl.	
Sodium, Na°	40,800	690	•
Sulfides, H2S	Negl.	Negl.	•
Remarks			
•			
opm equals Parts per million includes Ratassium as Na.	uncorrected or milligrams per	liter	^
with the second		Respectfully admitted,)·.
		HALLIBURTON COMPANY	
aboratory Analyst		By Dave Sutton, Division	Chemist
Brewer	•		

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether due to act or omission, resulting from such report or its use.

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Revised 1-1-65

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Philling Petroleum Company				Ranger		Lake Bough						Lea				-
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	WELL		LOC	LOCATION		DATEOF	UTA	CHOKE	- B C.	ALLOW-	7637	WATER	GRAV.	o e e	GAS	RATIO
LEASE NAME	Ö	Þ	s	۰	α	TEST	40	SIZE	PRESS.	ABLE	MOUR S	8815	OIL	881.5	M.C.F.	CU.FT/BBL
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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 Operance in order that well can be assigned.	ell shall or is enco	be pro	duced at to take	s rate nadvantag	ot excee e of this	exceeding the top unit allowable for the pool in which well is if this 25 percent tolerance in order that well can be assigned	il all	owable for	r the pool that well	in which we can be assig	# *	is true	is true and compleded	mplete ti ief.	o the best	is true and complete to the best of my know-ledge and belief.
increased allogables when authorized by the Commission.	EECOHEI	ssion.			,						=	\	_			

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

Mail criginal and one copy of this report to the district office of the New Mexico Oil Conservation Couminaton in accordance with Rule 301 and appropriate past rules.

Report casing pressure in lieu of hibing pressure for any well producing through casing

will be 0.60.

Engineering Advisor (Signature)

W. J. Mueller

(Tide)

1-15-76

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Revised 1-1-65

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Operator	• 10	Address									· .				

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 tup unit allowable for the pool in which well is located by more than 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 psis and a temperature of 60° F. Specific gravity base will be 0.60. Matt criginal and one cupy of this report to the district office of the New Mexico Oil Conservation Coumination in accordance with Rule 301 and appropriate pool rules.

Report ceans pressure in lieu of subing pressure for any well producing through casing

4-15-76 Engineering Advisor (Tide)

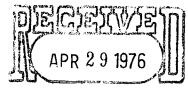
. J. Mueller

is true and complete to the best of my know-

ledge and belief.

(Date)





Getty Oil Company

P.O. Box 1231, Midland নুমুক্ত 79701

Mid-Continent Exploration and Production Division Richard L. White, Midland District Production Manager

April 23, 1976

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

Attention: Mr. Joe D. Ramey Secretary-Director

Re: Phillips Petroleum Company Application for Exception to Statewide Rule No. 303-C to Downhole Commingle Production From the Ranger Lake Bough & Ranger Lake Penn Pools Ranger Well No. 10, Lea County, New Mexico

Sincere

Gentlemen:

As requested in Phillips Petroleum Company's letter of April 14, 1976 to the New Mexico Oil Conservation Commission, this is to advise that Getty Oil Company has no objection to the proposed captioned commingling of production in the Ranger Well No. 10, Lea County, New Mexico.

RLW:ep

cc: Phillips Petroleum Company

Attention: Mr. T. H. McLemore

Phillips Building Odessa, Texas 79761

Mr. C. L. Wade



T. Don Stacy Division Engineering Manager



)!L CONSERVATION COMM. Santa Fo

April 30, 1976

File: DRC-986.51NM-2128

Re: Exception to Statewide Rule No. 303-C

Ranger Well No. 10
Ranger Lake Bough and
Ranger Lake Penn Pools
Lea County, New Mexico

Mr. Joe D. Ramey, Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, NM 87501

Dear Sir:

Phillips Petroleum Company has informed us of their request for authority to down hole commingle production from the subject fields in their Ranger Lake Well No. 10. We understand this well to be located in Unit D, 660' FW line and 660' FN line of Section 26, T-12-S, R-34-E, Lea County, New Mexico.

As an offset operator, Amoco Production Company has no objection to this request and hereby waives notice and hearing.

Yours very truly,

cc: Phillips Petroleum Company

Phillips Building Odessa, TX 79761

EHW:as



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT
CENTRAL UNITED STATES
MIDLAND DIVISION

May 3, 1976



EXCEPTION TO STATEWIDE RULE 303-C
PHILLIPS PETR. CO. - RANGER WELL NO. 10
RANGER LAKE BOUGH & PENN POOLS
LEA COUNTY, NEW MEXICO

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

Attn: Mr. Joe D. Ramey

Secretary-Director

Gentlemen:

Phillips Petroleum Company has requested an exception to Statewide Rule No. 303-C to downhole commingle production from the subject fields in their Ranger Well No. 10.

Texaco has abandoned all well completions in the subject fields but maintains leased acreage within the field boundary. Texaco, as a leaseholder in this area, waives objection to the request.

Yours very truly,

Darrell Smith
Division Manager

R. G. Brown

Assistant to Division Manager

PHD/lc

cc: Phillips Petroleum Company Phillips Building Odessa, Texas 79761

OIL CONSERVATION COMMISSION Hobbs DISTRICT

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OIL CONSERVATION COMMISSION BOX 2088	On CONSERVATION Courts Fo	DATE	April 22, 1976
SANTA FE, NEW MEXICO		RE:	Proposed MC
•			Proposed DHC X
			Proposed NSL
			Proposed SWD
			Proposed WFX
			Proposed PMX
Gentlemen:			
I have examined the app		·	
for the Phillips Pet. Co.			26-12-34
Operator	Lease and W	ell No.	Unit, S-T-R
and my recommendations are a	s follows:		
O.KJ.S.			
		 	

Yours very truly,