



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762  
4001 PENBROOK

NATURAL RESOURCES GROUP  
Exploration and Production

May 11, 1978

Application for Exception to  
Statewide Rule No. 303-C to  
Downhole Commingle Production  
from the Blinebry and Drinkard  
Pools, New Mex-D, Well No. 1  
Lea County, New Mexico

File: W2-McL-111-78

*DHC - 243*  
*Due - 6/15/78*

New Mexico Department of Energy & Minerals  
Oil Conservation Division  
Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

We respectfully request administrative approval, subject to the twenty day waiting period, to downhole commingle production from the Blinebry and Drinkard Pools in our New Mex-D, Well No. 1, located in Unit H, 1930' FNL and 660' FEL, Section 36, T-22-S, R-37-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 produce by natural flow. The subject well is classified as casinghead gas status in both zones.
2. The total daily production from the two zones before commingling does not exceed 852 MCFD as allowed for the deepest perforations in the lower zone. Further, neither zone produces water at this time.
3. The Blinebry zone of this well bore was completed in July, 1964, through perforations 6679-5670'. Our last official well test on the Blinebry zone was in March, 1978, producing 9 BO, 76 MCF gas, 0 BW, which was taken during the annual packer leakage test. This zone is shut-in and temporarily abandoned. The last oil production before temporarily abandoned reflected gravity of 41 degrees. At that time it

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was classified as a casinghead gas well. The Drinkard zone of this well was completed in October, 1975, through perforations 6036-6887'. Our last official well test on the Drinkard zone was in April, 1978, producing 2 BO, 766 MCF gas, 0 BW, GOR 383,000, Oil Gravity 43 degrees, classified as a casinghead gas well. The oil, gas and/or water production is compatible one zone with the other and there should be no undue formation of precipitates from the combined produced waters or hydrocarbons. We attach formation water analysis on each zone.

4. Crude gravities are: Blinebry - 41 degrees, Drinkard - 43 degrees. These crudes are classified as intermediate sweet with a posted price of \$14.83 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. Casinghead gas is the same price in both zones. Royalty and working interest are common throughout and there are no overriding royalty. The State royalty beneficiary is Common School Land.
5. Bottom hole pressures are estimated at 600 psi for the Blinebry and 710 psi for the Drinkard.
6. Our forecast of production is:

FIRST YEAR:	Blinebry:	6 BOPD, 500 MSCF/D
	Drinkard:	3 BOPD, 450 MSCF/D
SECOND YEAR:	Blinebry:	5 BOPD, 675 MSCF/D
	Drinkard:	2 BOPD, 350 MSCF/D

We attach prior production statistics on each zone.
7. See attached production curves for each zone completion.

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

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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. If there are any questions on this application, please contact the writer, telephone (915) 337-8611.

Your consideration and advise will be appreciated.

Very truly yours,

PHILLIPS PETROLEUM COMPANY



T. Harold McLemore

Area Regulation and Proration Analyst

THM/ga

Attachments

cc: Aztec Oil and Gas Company  
Box 837  
Hobbs, New Mexico 88240

Gulf Oil Company - US  
Box 1150  
Midland, Texas 79702

Moranco  
Box 1860  
Hobbs, New Mexico 88240

Summit Energy, Inc.  
1925 Mercantile Dallas Building  
Dallas, Texas

Texaco, Inc.  
Box 728  
Hobbs, New Mexico 88240

Texas Pacific Oil Company  
Box 4067  
Midland, Texas 79702

New Mexico Dept. of Energy & Minerals  
Oil Conservation Division  
Box 1980  
Hobbs, New Mexico 88240

Attachments

*BL - 630 500 wcf.*  
*DR - 3B 450 "*  
*9 950*

*Bottom of 6987 max prod 40 BO*

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS - OIL RATIO TESTS

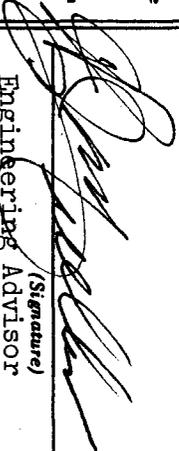
C-116  
Revised 1-1-65

Operator		Pool				County		Completion				Special			
Phillips Petroleum Company		Blaineby				Lee		<input type="checkbox"/> Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>							
Address						TYPE OF TEST - (X)									
Room 401, 4001 Penbrook, Odessa, Texas 79762						<input checked="" type="checkbox"/>									
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL	
		U	S	T	R						WATER BBL.S.	GRAV. OIL BBL.S.	OIL BBL.S.		GAS M.C.F.
New Mex-D	1	H	36	22	37	3-10-78	SI	350		24	0	41	0	76	--
								FLOWED DURING PACKER LEAKAGE TEST							

MAY 15 1978

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)  
 Engineering Advisor

May 11, 1978  
 (Date)

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

C-116  
Revised 1-1-65

Operator **Phillips Petroleum Company** Pool **Drinkard** County **Lea**

Address **Room 401, 4001 Penbrook, Odessa, Texas 79762** TYPE OF TEST  (X)  Scheduled  Special  (X)

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	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.
<b>New Mex-D</b>	<b>1</b>	<b>H</b>	<b>36</b>	<b>22</b>	<b>37</b>	<b>4-18-78</b>	<b>22/64</b>	<b>250</b>		<b>24</b>	<b>0</b>	<b>43</b>	<b>2</b>	<b>766</b>	<b>383,000</b>

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

  
 (Signature)  
**Engineering Advisor**  
 (Title)  
 May 11, 1978  
 (Date)



PHILLIPS PETROLEUM COMPANY

LABORATORY ANALYSIS RESULTS SUMMARY

Sample

Water

Secured from:

New Mex D-1 Blinberry Formation

Secured by:

Operator

Date:

4-11-78

Analysis No.:

L962

Chlorides, ppm, NaCl

60314

Chlorides, ppm, Cl

36852

Alkalinity, ppm CaCO3

468

Hardness, ppm, CaCO3

11863

Calcium, ppm, Ca

798

Magnesium, ppm, Mg

2398

Dissolved Solids, ppm

81060

Sulfates, ppm, Na2SO4

1650

SO4

1122

Silica, ppm, SiO2

15

Bicarbonates, ppm, HCO3

563

Total Iron Fe ppm

29

pH

6.9

Solometer Reading

23

% Salt

6.095

lbs. Salt

.5293

Copies to:

C. Edgel

B.L. Koser

(r) A.D. Glasgow

Harold McLeMORE

Central File

Lab File

Analysis by:

David Unger

Checked by:

Approved by:



PHILLIPS PETROLEUM COMPANY

LABORATORY ANALYSIS RESULTS SUMMARY

Sample Water

Secured from: New Mex D-1 Drinkard Formation

Secured by: Operator

Date: 4-11-78

Analysis No.: L963

Chlorides, ppm, NaCl 194900

Chlorides, ppm, Cl 119084

Alkalinity, ppm CaCO<sub>3</sub> 239

Hardness, ppm, CaCO<sub>3</sub> 47354

Calcium, ppm, Ca 29908

Magnesium, ppm, Mg. 4239

Dissolved Solids, ppm 279000

Sulfates, ppm, Na<sub>2</sub>SO<sub>4</sub> 1650

SO<sub>4</sub> 1122

Silica, ppm, SiO<sub>2</sub> 26

Bicarbonates, ppm, HCO<sub>3</sub> 292

Total Iron Fe ppm 151

pH 5.4

Solometer Reading 73

% Salt 19.345

lbs. Salt 1.842

Copies to:

C. Edge

R.L. Roper

(D) A.B. Glasgow

Harold Mc Lendon

Central file

Lab file

Analysis by: David Unger

Checked by:

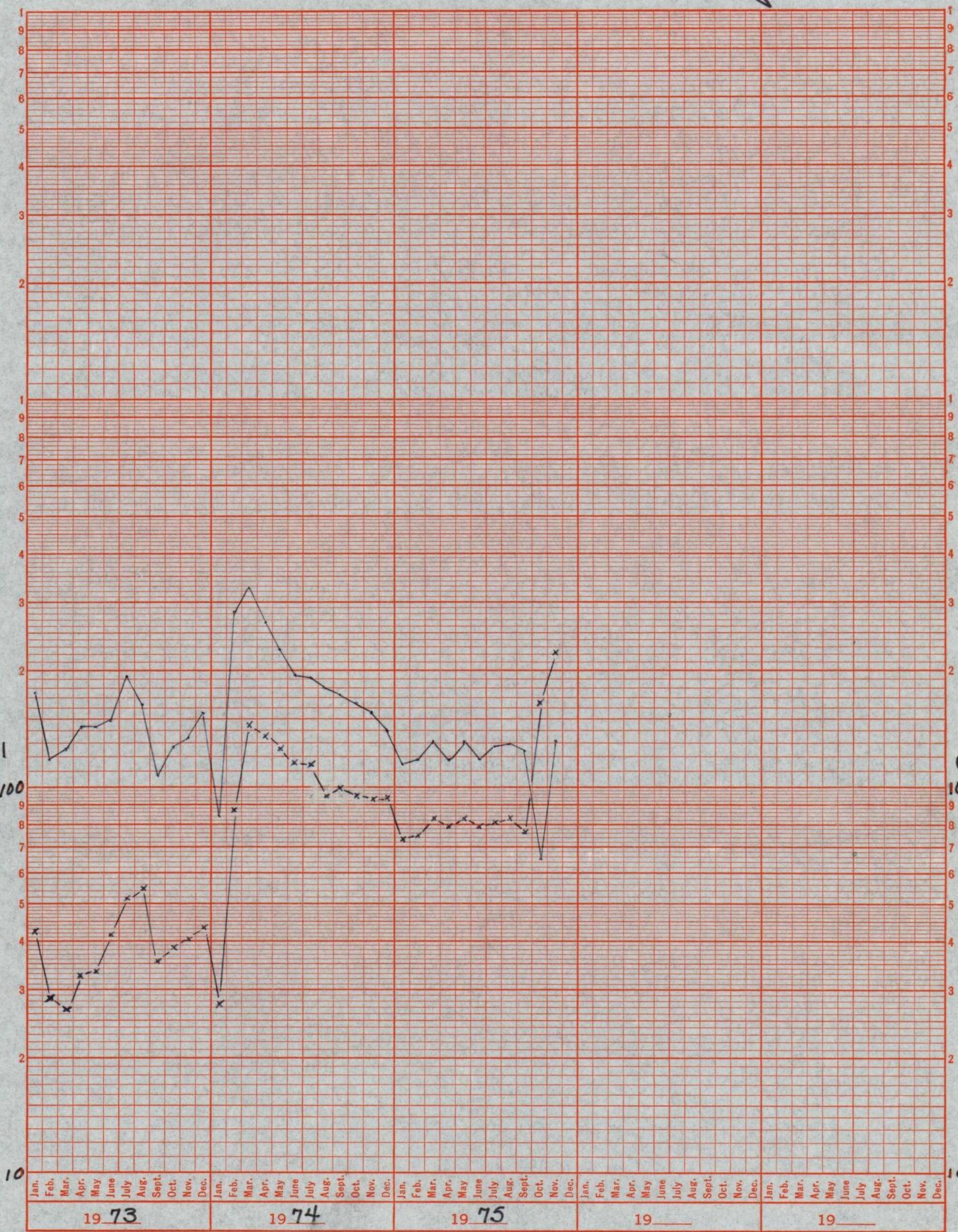
Approved by:

Phillips Petroleum Company  
 New Mex D #1  
 Blinberry

5 YEARS BY MONTHS  
 X 3 LOG CYCLES  
 KE 46 6693  
 MADE IN U.S.A.  
 KEUFFEL & ESSER CO.

Oil

Gas  
 10,000



BOPM —  
 MCF/month x—x

Phillips Petroleum Company  
New Mex D #1  
Drinkard



KE 5 YEARS BY MONTHS 46 6693  
 X 3 LOG CYCLES  
 MADE IN U.S.A.  
 KEUFFEL & ESSER CO.

BOPM —  
 MCF/month x—x

Field: Blinberry Reservoir: Blinberry  
 Operator: Phillips Petroleum Company RRC No. \_\_\_\_\_  
 Lease: New Mex D Location: 1H3622S37E  
 Well No. 1 County: Sea

1973	No. of Wells	Allow	Production			GOR	BHP
			Oil	Water	Gas		
Jan			174		4279		
Feb			117		2847		
Mar			124		2691		
Apr			142		3265		
May			142		3325		
June			149		4174		
July			192		5183		
Aug			163		5417		
Sept			107		3501		
Oct			127		3847		
Nov			133		4039		
Dec			154		4358		
Yrly. Total			1724		46926		
Accum			52146				

1974							
Jan			84		2744		
Feb			282		8073		
Mar			327		14641		
Apr			264		13583		
May			225		12790		
June			194		11690		
July			192		11515		
Aug			180		9420		
Sept			172		9945		
Oct			164		9501		
Nov			155		9323		
Dec			140		9389		
Yrly. Total			2379		122614		
Accum			54525				

1975							
Jan			114		7293		
Feb			118		7492		
Mar			130		8329		
Apr			118		7906		
May			130	20	8235		
June			118	22	7954		
July			127	20	8104		
Aug			129	60	8354		
Sept			124	21	7639		
Oct			65	21	16681		
Nov			131	11	22141		
Dec			SI				
Yrly. Total			1304	175	110128		
Accum			55829				

Field: Drinkard Reservoir: Drinkard  
 Operator: Phillips Petroleum Company RRC No. \_\_\_\_\_  
 Lease: New Mex D Location: 1H3622S37E  
 Well No. 1 County: Sea

1975	No. of Wells	Allow	Production			GOR	BHP
			Oil	Water	Gas		
Jan							
Feb							
Mar							
Apr							
May							
June							
July							
Aug							
Sept							
Oct							
Nov							
Dec			132	22	12872		
Yrly. Total			132	22	12872		
Accum			132				

1976							
			Oil	Water	Gas	GOR	BHP
Jan			75	94	45207		
Feb			60	12	28324		
Mar			59		21540		
Apr			119	10	28177		
May			124		27311		
June			76		25666		
July			90		24614		
Aug			84		23676		
Sept			77		21692		
Oct			89		20817		
Nov			95		17481		
Dec			36		14258		
Yrly. Total			984	116	298763		
Accum			1116				

1977							
			Oil	Water	Gas	GOR	BHP
Jan			3		9495		
Feb			38		14917		
Mar			41		16126		
Apr			35		14962		
May			44		14221		
June			61		9587		
July			150		22583		
Aug			71		23311		
Sept			56		21267		
Oct			15		20874		
Nov			76		18535		
Dec							
Yrly. Total							
Accum							

DHC

MAY 20 1978

WAIVER

New Mexico Oil Conservation Division  
State Land Office Building  
Post Office Box 2088  
Santa Fe, New Mexico 87105

Gentlemen:

This is to advise that Gulf Oil Corporation has been given  
adequate notice that the Phillips Petroleum Company has made  
application for an exception to Statewide Rule No. 303-C to  
downhole commingle production from the Blinbry and Drinkard  
Pools, on their New Mex-D, Well No. 1, Lea County, New Mexico.

We hereby waive any objection to the granting of this appli-  
cation for the above well which is to be located:

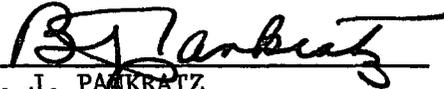
1930' FNL and 660' FEL in Unit H, Section 36,  
T-22-S, R-37-E, Lea County, New Mexico.

EXECUTED this 19TH day of MAY, 1978.

Yours very truly,

GULF OIL CORPORATION

BY:



B. J. PAKKRATZ  
Manager - Engineering

LPM:sdn

OIL CONSERVATION COMMISSION  
Hobbs DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE May 15, 1978

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

RECEIVED  
MAY 15 1978

Gentlemen:

I have examined the application dated MAY 16 1978  
for the Phillips Petroleum Co. New Mex "D" #1-H 36-22-37  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

