

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
OPERATOR	GAS
PRODUCTION OFFICE	

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator
NEARBURG PRODUCING COMPANY

Address
P. O. Box 31405 - Dallas, TX 75231

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Condensate	
<input type="checkbox"/> Change in Ownership			

Other (Please explain)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name: RETT FEDERAL COM

Well No.: 1-Y

Pool Name, including Formation: 6-1-86 R-8233
South
Unders. Bone Spring

Kind of Lease: Federal

Lease No.: NM-28880

Location

Unit Letter: P : 660 Feet From The South Line and 760 Feet From The East

Line of Section: 23 Township: 20S Range: 34E, NMPM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Navajo Refining Company	P. O. Drawer 159 - Artesia, NM 88210
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Phillips Petroleum Company <u>66 Nace Gas Co</u>	410-B Home Savings & Loan Bldg. - Bartlesville, OK
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit: P Sec: 23 Twp: 20 Rge: 34	Yes 12/3/85 74004

If this production is commingled with that from any other lease or pool, give commingling order number

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Kathleen A. Yant
Kathleen A. Yant (Signature)
Production Analyst
(Title)
4/7/86
(Date)

OIL CONSERVATION DIVISION

APPROVED APR 10 1986, 19
BY ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR
TITLE

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil Well X	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v. X
Date Spudded 6/8/85	Date Compl. Ready to Prod. 8/18/85		Total Depth 13,553'			P.B.T.D. 13,499'			
Elevations (DF, RKB, RT, CR, etc.) 3685.4'	Name of Producing Formation Undes. Bone Spring		Top Oil/Gas Pay 9,104'			Tubing Depth 10,386'			
Perforations 9104'-10,397'						Depth Casing Shoe 13,494'			
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT			
17-1/2"	13-3/8"		875'			Circ to Surface			
11"	8-5/8"		5,508'			Circ to Surface			
7-7/8"	5-1/2"		13,496'			1100 sx. Howco 50/50 Pc			
5-1/2"	2-3/8"		13,030'						

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test 4/2/86	Producing Method (Flow, pump, gas lift, etc.) Pump	
Length of Test 24 hrs.	Tubing Pressure -----	Casing Pressure -----	Choke Size -----
Actual Prod. During Test	Oil - Bbls. 89	Water - Bbls. 120	Gas - MCF TSTM

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

RECEIVED
APR 5 1986
FEDERAL RESERVE BANK
ATLANTA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRI
(Other instructions
verse side)

DATE
OR RE

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-28880

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

RETT FEDERAL COM

9. WELL NO.

1-Y

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 23, T20S, R34E

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☒ GAS WELL ☒ OTHER ☐ Will complete as Morrow/Bone Spring
Dual Completion.

2. NAME OF OPERATOR

Nearburg Producing Company

3. ADDRESS OF OPERATOR

P. O. Box 31405 - Dallas, TX 75231

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

6
640' FSL & 760' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3685.4' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Bone Spring Completion

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

2/13 - 4/2/86: Perforated interval 9104'-10,397' with a total of
54 holes. Acidize same with 17,900 gallons 15%
NEFE acid. Fracture interval with 98,500 gallons
gel and 193,000# 20/40 sand. Will complete as a
dual Morrow/Bone Spring well after pump testing
Bone Spring interval.

ACCEPTED FOR RECORD

SWD
APR 14 1986

CARISBAD, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

T. R. MacDonald
T. R. MacDonald

TITLE

Engineering Manager

DATE

4/9/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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APR 17 1986
O.C.D.
HOBBS OFFICE



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

NATURAL RESOURCES GROUP
Exploration and Production

DATE: December 13, 1985

ENERGY AND MINERALS DEPT.
OIL CONSERVATION DIVISION
ATTN: MR. JERRY SEXTON
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

NOTICE OF GAS CONNECTION

This is to notify the Oil Conservation Commission that connection for the

purchase of gas from Chama Petroleum *Newberry Field*
Operator
Rett Federal #1-Y, P, 23-20-34, Laguna Valley
Lease, Well Unit, S. T. R., Lea Morrow
Pool
Phillips Petroleum Company, was made on December 2, 1985
Name of Purchaser

Ken Johnson
Ken Johnson - Representative

Production Records Supervisor
Room 215 Phillips Building

cc: To Operator
Oil Conservation Commission - Santa Fe

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
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LAND OFFICE		
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PRODUCTION OFFICE		

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator Chama Petroleum Company - Neerburg Producing Co.

Address P.O. Box 31405 Dallas, Texas 75231

Reason(s) for filing (Check proper box)

<input checked="" type="checkbox"/> New Well	Change in Transporter of:	
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Condensate

Other (Please explain) Penn 782

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE Laguna Valley **CONFIDENTIAL** R-8189

Lease Name <u>Rett Federal Com</u>	Well No. <u>1-Y</u>	Pool Name, including Formation <u>Undec. Morrow Gas</u>	Kind of Lease <u>Federal</u>	Lease No. <u>NM-28880</u>
Location Unit Letter _____; <u>660</u> Feet From The <u>South</u> Line and <u>760</u> Feet From The <u>East</u> Line of Section <u>23</u> Township <u>20S</u> Range <u>34E</u> , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <u>Navajo Refining Company</u>	Address (Give address to which approved copy of this form is to be sent) <u>P.O. Drawer 159, Artesia, NM 88210</u>
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> <u>Phillips Petroleum Company - 66 North Main St.</u>	Address (Give address to which approved copy of this form is to be sent) <u>410-1B Home Saving & Loan Bldg, Bartlesville, OK</u>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	<u>23 20S 34E</u> <u>no</u> <u>approx 10/28/85</u>

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

TR Mac Donald
(Signature)
Engineering Manager
(Title)
October 21, 1985
(Date)

OIL CONSERVATION DIVISION
APPROVED APR 15 1986, 19____
BY ORIGINAL SIGNED BY JERRY SEXTON
TITLE DISTRICT I SUPERVISOR

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IV. COMPLETION DATA

IV. COMPLETION DATA									
Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
			X	X					
Date Spudded 6/8/85		Date Compl. Ready to Prod. 8/18/85		Total Depth 13553'			P.B.T.D. 13499'		
Elevations (DF, RKB, RT, GR, etc.) 3685.4'		Name of Producing Formation Morrow		Top Oil/Gas Pay 13041'			Tubing Depth 13030'		
Perforations 13041' - 13169'							Depth Casing Shoe 13494'		

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8"	875'	725 sxs circ
11"	8-5/8"	5508'	stage 1 550 sxs circ
			stage 2 2550 sxs circ
7-7/8"	5-1/2"	13496'	1100 sxs

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 263.3	Length of Test 24	Bbls. Condensate/MMCF -0-	Gravity of Condensate N/A
Testing Method (pilot, back pr.) flowing	Tubing Pressure (Shut-in) 3250	Casing Pressure (Shut-in) N/A	Choke Size 13/64"

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NOV 12 1985

O.C.D.
HOBBS OFFICE

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 8-17-85	
Company Chama Petroleum Company			Connection To-Air		
Pool			Formation Morrow		Unit
Completion Date		Total Depth 13,552'	Plug Back TD 13,499'		Elevation 3685.4
Farm or Lease Name Rett Fed. Com.					
Csq. Size 5 1/2"	Wt. 17#	d 4.892	Set At 13,550'	Perforations: From 13,041 To 13,169	
Thg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 13,030	Perforations: From OPEN-ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 12,963'	
Producing Thru Tubing		Reservoir Temp. °F 204° @ 13,030	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	
State New Mexico					
L 13,030	H 13030	G _g .6825	% CO ₂ .433	% N ₂ .391	% H ₂ S
Prover				Meter Run 3.826	Taps Flange

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI									PKR	CHOKE	72 Hrs
1.	3.826	x	.750	300	1"	82°	2830	70°		5/64	1 Hr.
2.	3.826	x	.750	570	2	98	2050	70		7/64	1 Hr.
3.	3.826	x	.750	630	9	93	1440	70		9/64	1 Hr.
4.	3.826	x	.750	630	10	98	860	70		13/64	1 Hr.
5.	3.826	x	.750	570	5	98	520	70		24/64	1 Hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.662	17.69	313.2	.9795	1.210	1.030	57.49
2	2.662	34.15	583.2	.9653	1.210	1.051	111.60
3	2.662	76.08	643.2	.9697	1.210	1.058	251.41
4	2.662	80.20	643.2	.9653	1.210	1.056	263.33
5		51.15	523.2	.9653	1.210	1.046	166.35

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	59.08 Mcf/bbl.
1.	.47	542	1.42	.943	A.P.I. Gravity of Liquid Hydrocarbons	50.8 @ 60° Deg.
2.	.87	558	1.46	.905	Specific Gravity Separator Gas	.683
3.	.96	553	1.45	.894	Specific Gravity Flowing Fluid	XXXXX
4.	.78	558	1.46	.896	Critical Pressure	672 P.S.I.A.
5.		558	1.46	.914	Critical Temperature	381 R

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = \frac{33283.7}{30905.3}$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.076$
1	4894.2	23953.2	9330.5			
2	3757.2	14116.6	19167.1			
3	2558.2	6544.1	26739.6			
4	1542.2	2378.4	30905.3			
5	1123.2	1261.6	32022.1			

Absolute Open Flow		283.56 Mcfd @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
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Remarks: Calculated from known Bottom Hole Pressures by Kuster Gauge.
Well made 1 BBL. of condensate during test.

Approved By Commission:	Conducted By: R.B.	Calculated By: J.D.	Checked By: John Davis
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