

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-103
Revised 10-1-78

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LAND OFFICE	
OPERATOR	

API No. 30-025-00336

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
B-9680	
7. Unit Agreement Name	
8. Farm or Lease Name	
Chem-State <i>Step 2</i>	
9. Well No.	
#2	
10. Field and Pool, or Wildcat	
Tulk Wolfcamp	
12. County	
Lea	

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 - " (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER <input type="checkbox"/>
Name of Operator		
Phillips Petroleum Company		
Address of Operator		
Location of Well		
UNIT LETTER <u>H</u> , <u>658</u> FEET FROM THE <u>East</u> LINE AND <u>2240</u> FEET FROM		
THE <u>North</u> LINE, SECTION <u>3</u> TOWNSHIP <u>15-S</u> RANGE <u>32-E</u> N.M.P.M.		

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

4300 D.F.

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Acidize</u> <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 10-20-82: MI & RU Well units WSU, pld rds & pmp. Set BOP.
- 10-21-82: COOH w/2-7/8" tbq, 2-3/8" tbq & anchor. WIH w/2-3/8" N-80 work string & 5 1/2" Arrow test pkr to 9400'.
- 10-22,23,24-82: 22nd, Pkr would not set. COOH w/tbq & pkr. WIH w/5-1/2" Arrow pkr & 2-3/8" tbq to 9400'. 23rd, BJ trtd dwn 2-3/8" tbq into 5-1/2" csg perms from 9500'- 8972' w/7,500 gals 15% NeFe HCl, 2000 gals gelled 10# brine w/500# graded rock salt. 24th, dwn 24 hrs - crew off.
- 10-25-82: Swbd 8 hrs, rec 38 BO, 7 BSW.
- 10-26-82: COOH w/Pkr & 2-3/8" WS. LD work string. GIH w/189 jts J-55, 64 jts 2-3/8" N-80, 64 jts 2-7/8" J-55, SN @ 9840', anchor @ 8000', 12,000# tension. Rerun pmp & rods. Return to production.
- 10-27-82: Down 24 hrs - Engine trouble.

See reverse side

BOP Equip: Series 900, 3000# WP, double, w/1 set pipe rams, 1 set blind rams, manually operated.

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

CREATED W. J. Mueller TITLE Sr. Engineering Specialist DATE 11-16-82

ORIGINAL SIGNED BY

JERRY LEXTON

PROVED BY

CONDITIONS OF APPROVAL

NOV 19 1982

DATE

10-28-82: Pmpd 24 hrs - - 19 BO & 1 BW.

10-29,30,31,82: Pmpd 72 hrs, no fluid - - well off.

11-1-82: Press. tested tbgs, started pmpg in at 30#, could not hold press.
Pld rds, pmp.

11-2-82: Running 2-3/8" tbgs, pld tbgs & anchor. Ran 256 jts of tbgs.

11-3-82: Ran 2-3/8" & 2-7/8" tbgs string, set OE, @ 9840' w/Baker Anchor Catcher
@ 9837', SN @ 9836'. Ran 1", 7/8" & 3/4" rod string w/2" x 1-1/4"
x 20' pmp. Seated pmp @ 9835', RD Cobra WSU. Pmpd 12 hrs, 33 BO,
13 BW.

11-4-82: Pmpd 24 hrs, 31 BO 23 BSW.

11-5,6,7-82: Pmpd 72 hrs, 42 BO, 0 BSW.

11-8-82: Pmpd 24 hrs, 7 BO, 8 BSW.

11-9-82: Pmpd 24 hrs, 11 BO, 7 BSW, GOR: 728, Grind out 4/10 of 1% Gravity
38.7, from 5-1/2" csg perms 9500' to 9872'.

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NOV 17 1982

O.L.O.
HOBBS OFFICE

RKB @ 4301'
CHF @ (13')
GL @ 4288'

Area Hobbs
Subarea Lovington Date May 11, 1982
Lease & Well No. Chem State Well #2

Legal Description 658' FEL, 2240' FNL, Sec. 3, T15S, R32E.
Lea County, New Mexico

Field Tulk - Wolfcamp

Status PE 4 BOPD .5 BWPD 150 GOR
Tbg. 2-3/8-2-7/8" EUE 4.7-6.5# J55 Gr. @ 9878' SN @ 9818'
~~Plch.~~ Tubing anchor @ 7998'
Other Pump, type insert @ 9818'

Stimulation History:

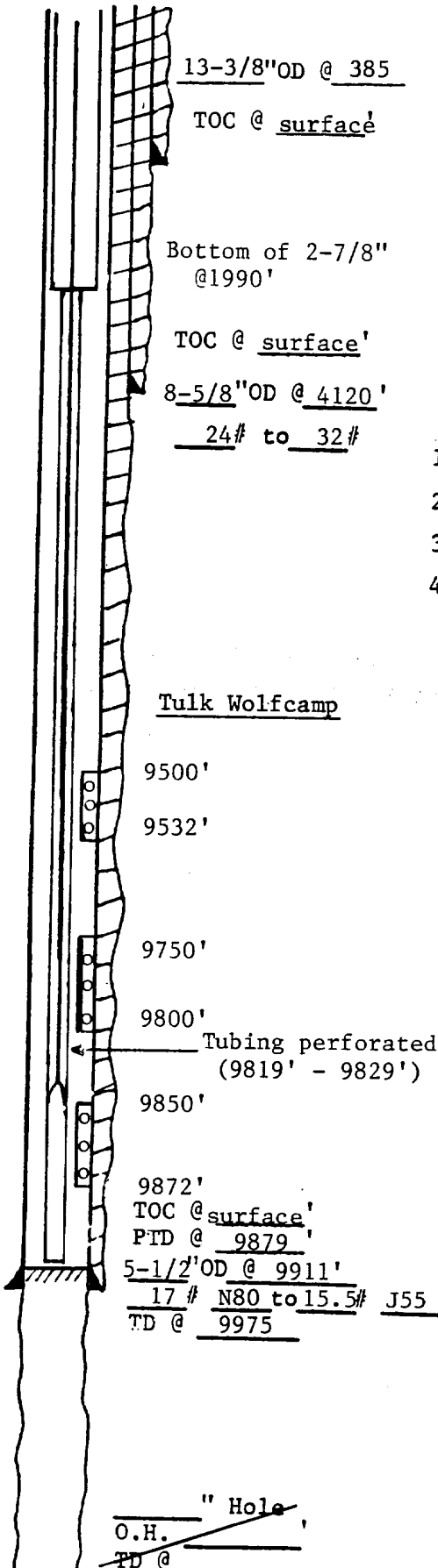
Interval	Date	Type	Gals.	#	Sd.	MP	ISDP	IR	Down
1. 9780-9800'	9/30/52	500 gal mud acid + 2000 gal	15% reg						
2. 9500-9532'	10/18/52	Mud acid 500							
3. 9500-9532'	10/22/52	15% reg 2,000							
4. 9500-9872'	9/22/58	15% reg 9,000							

Hole/Casing Condition No remarks

Workover Proposal: Acidize well to increase profitability and partially replace tubing to meet anchor tension requirements

Recommended Procedure:

(See Attachment)



APP'D COPY
RELEASED

JUN 8 1982

PBR-E&P

Copies:

J. O. Woodson
G. R. Smith
S. H. Oden
W. J. Mueller (2)
R. G. Breivik (2)
B. E. Allen (2)
P. D. Bearden
T. H. McLemore
Central Files
E. C. Wiszniauckas

P.P. Co. W.I. 100 %

Checked by:

Reser. Engr. J. E. Pickett
Prod. Engr. R. G. Breivik/D.G. Garval

Approved: [Signature]

Cost: \$38,000 WO No. 602510

" Hole
O.H.
TD @

May 11, 1982

CHEM STATE WELL No. 2
Recommended Procedure
to Acidize Well

1. Move in DD unit, 10,000 feet of 2-3/8" - 4.7 lbs - N80 work string, Hot Oil truck, frac tank and BOP.
2. Kill well, if necessary, with produced water of 2% KCl water.
3. COOH with rods and pump. Install BOP and pull tubing.
4. RIH with 2-3/8" work string and RTTS type packer. Set packer at (\pm) 9400'. Load tbg - casing annulus and hold 500 psi pressure on the annulus during the following acid job.
5. _____ to pump 2500 gallons of 15% NEFE HCL acid through perforations (9500'-9872').
6. Pump 1000 gallons of gelled 10# brine with 500# graded rock salt and 500# benzoic acid flakes.
7. Repeat steps 5 & 6.
8. Repeat step 5.

Note: Recommended injection rate is 6-8 BPM at an anticipated surface treating pressure of 2500 psi. Do not exceed 5000 psi surface pressure.

9. Flush with 50 BBL 2% KCl water containing LST agent.
10. Shut in well for 30 minutes.
11. Swab load and acid water.
12. COOH and lay down work string and packer.
13. Rerun production tubing; from bottom to top:
 - a) 5882' - 2-3/8" - 4.7#/ft. - EUE tbg.
 - b) 2000' - 2-3/8" - N80 - 4.7 lbs - EUE (new)
 - c) 1990' - 2-7/8" - J55 - 6.5 lbs - EUESeating nipple at \pm 9842'. Anchor at \pm 9450' in 19,800 lbs tension.
14. Rerun pump and sucker rods string; from bottom to top:
 - a) 2 X 1-1/16 X 12 X 18 pump at 9842'
 - b) sucker rods: 3925' of 5/8"
2250' of 3/4"
1925' of 7/8"
1725' of 1"
15. Return well to production and submit frequent results for evaluation of treatment response.

DCG/jm

TO CHANGE INDIVIDUAL WELL STATUS OR TO PERFORM WORK

Date May 11, 19 82

AFE or WP No. _____
Work Order No. 602510
Budget Item No. EXPENSE

PROPERTY:

Name: Chem State Well No. 2
Field: Tulk Wolfcamp County: Lea State: New Mexico
Phillips Working Interest 100 % Revenue Interest 87.5 %

PROPOSAL: Acidize CHEM STATE WELL No. 2 and return to producing status.

JUSTIFICATION: It is proposed to perform an acid job and to partially replace the tubing to meet anchor tension requirements. Acidizing the well should increase the present oil production by 15 STBO/D and the present gas production in the same proportion.

Economics are based on the following:

1. Production increase: as stated above (Assume 10% decline per year).
2. Tier 2 intermediate oil priced as per 03/82 guideline, \$26.25/BBL after federal excise taxes.
3. Gas @ 1.42/MCF escalated as per 03/82 guideline.

PRESENT STATUS:

Production: Lease 34 BO/D, 10 BW/D, 8 MCFG/D
Well 4 BO/D, 0.5 BW/D, 0.6 MCFG/D

Producing Formation in Well:

Name: Tulk (Wolfcamp)
Top: 8925'
Bottom: --

Producing Casing:

Size: 5-1/2"
Set at: 9975'
PTD: 9879'

Perforations: (9500-9532), (9750, 9800), (9850, 9872)

AVERAGE MONTHLY ECONOMICS PERTAINING TO PROPOSAL (Full Working Interest):

	Reserve	Production	Revenue	Operating Expense	Operating Income
Before		122	\$ 2,802	\$960	\$ 1,842
After		578	\$13,276	\$960	\$12,316
Change		455	\$10,474	0	\$10,474

EVALUATION SUMMARY:

	Original Plus Previous Supplements	This Supplement #	Original Plus All Supplements
Cost: Gross	\$ 38,000	\$	\$
Phillips Net	\$ 38,000	\$	\$
AARR	500+ %	%	%
Payout	0.39 Yrs.	Yrs.	Yrs.
NTIR	5.76		
Net Profit	\$ 180,919	\$	\$
Project Life	5 Yrs.	Yrs.	Yrs.
Risk	A		

PREPARED BY: D. C. Garval/R. G. Breivik APPROVED COPY RELEASED

APPROVALS: [Signature] 6/3/82
District Date

JUN 8 1982

[Signature] 6-4-82 [Signature]
Region Date Bartlesville Date



Phillips Petroleum

COMF Y

Page No. 1 of 1

NRG Eastern E & P

GROUP OR
CORPORATE STAFF

W.O.

No. 602510

COST ESTIMATE

A. F. E. No. _____

Location: Chem State Well No. 2

Date May 11, 19 82

Description of Job: Acidize well and partially replace tubing. 658' FEL, 2240' FNL, Sec. 3,
T15S, R32E, Lea County, New Mexico

UNIT	CLASS	ITEM	DESCRIPTION (SHOW CONDITION OF USED MATERIAL AND EQUIPMENT)	QTY.	UNIT PRICE	TOTAL
			<u>Tangibles</u>			
			Tubing - 2-3/8", 4.7 lbs, N80, EUE	2000		\$12,500
			Total tangibles			\$12,500
			<u>Intangibles</u>			
			DD Well Service Unit and Crew			\$ 6,200
			Hot Oil Truck			1,800
			Work string - 2-3/8" - 4.7 lbs - N80 (10,000')			1,600
			BOP Rental			300
			Frac Tank (500 bbls)			500
			Trucking			1,300
			Acid and services			9,000
			Packer rental			1,825
			PPCo: Supervision			150
			Vehicle Expense			50
			District Expense			135
			Payroll Burden @17%			50
			Miscellaneous Intangibles			2,590
			Total intangibles			\$25,500
APPROVED COPY RELEASED						
JUN 8 1982						
PBR-E&P						
TOTAL						\$38,000

REQUESTED BY J. W. Maharg
ESTIMATE GRADE BY D. C. Garval DC
CHECKED BY S. H. Oden

APPROVED BY

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	GAS	
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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator Phillips Petroleum Company	
Address Room B-2, Phillips Building, Odessa, Texas 79760	
Reason(s) for filing (Check proper box)	
New Well <input type="checkbox"/>	Change in Transporter of: <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Oil <input checked="" type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
Other (Please explain)	

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Chem State	Well No. 2	Pool Name, Including Formation Talk (Wolfcamp)	Kind of Lease State, XXXXXXXXXX	Lease No. B 9680
Location				
Unit Letter H	658	Feet From The east	Line and 2240	Feet From The north
Line of Section 3	Township 15-S	Range 32-E	, NMPM, Lea County	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Effective 2-1-71

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Amaco Production Company, Trucks	Address (Give address to which approved copy of this form is to be sent) Box 3119, Midland, Texas 79701					
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Warren Petroleum Corporation	Address (Give address to which approved copy of this form is to be sent) Box 1589, Tulsa, Oklahoma 74102					
If well produces oil or liquids, give location of tanks.	Unit A	Sec. 4	Twp. 15-S	Rge. 32-E	Is gas actually connected? Yes	When 10-69

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

R-579

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(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)

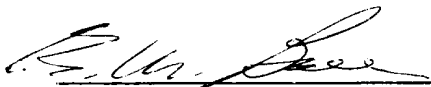
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

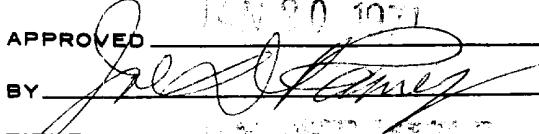
Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

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


E. M. Ball
(Signature)
Clerical Supervisor
(Title)
1-15-71
(Date)

OIL CONSERVATION COMMISSION

APPROVED  , 19
BY
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.

REMOVED

JAN 1 1971

OIL CONSERVATION COMM.
BOSTON, MA

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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

FORM C-110
(Rev. 7-60)

**CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS**

FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE

Company or Operator Phillips Petroleum Company				Chem-State Both. 2		Well No. 2
Unit Letter H	Section 3	Township 15S	Range 32E	County Lea		
Pool Talk Wolfcamp				Kind of Lease (State, Fed, Fee) State		
If well produces oil or condensate give location of tanks		Unit Letter A	Section 4	Township 15S	Range 32E	
Authorized transporter of oil <input checked="" type="checkbox"/> or condensate <input type="checkbox"/> Indiana Oil Purchasing Co.				Address (give address to which approved copy of this form is to be sent) Box 1725 - Midland, Texas		
Is Gas Actually Connected? Yes _____ No <input checked="" type="checkbox"/>						
Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input type="checkbox"/>		Date Connected	Address (give address to which approved copy of this form is to be sent)			

If gas is not being sold, give reasons and also explain its present disposition:

Vented - too small for connection

REASON(S) FOR FILING (please check proper box)

New Well ☐ Change in Ownership ☒
 Change in Transporter (check one) Other (explain below)
 Oil ☐ Dry Gas ☐
 Casing head gas . ☐ Condensate.. ☐

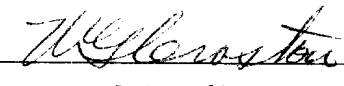
Remarks

Formerly a Phillips Chemical Company Chem-State No. 2

Change to be effective July 1, 1963

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the **18** day of **June**, 19 **63**.

OIL CONSERVATION COMMISSION		By
Approved by		Title
Title		Area Chief Clerk
Date	Company Phillips Petroleum Company	
	Address Box 2105-Hobbs, New Mexico	