

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brason Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)
30-025-30067 ✓

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
B-2229

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☒

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

7. Lease Name or Unit Agreement Name

Philmex

2. Name of Operator

Phillips Petroleum Company

8. Well No.
23

3. Address of Operator

4001 Penbrook St. Odessa, TX 79762

9. Pool name or Wildcat
Undesignated (Queen)

4. Well Location

Unit Letter P : 460 Feet From The South Line and 660 Feet From The East Line

Section 26

Township 17-S

Range 33-E

NMPM Lea

County

10. Proposed Depth
4800'

11. Formation
Queen

12. Rotary or C.T.
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)
4124' GR

14. Kind & Status Plug Bond
Blanket

15. Drilling Contractor
NA

16. Approx. Date Work will start
upon Approval

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#	1471'	1000 sx.	Surf.
7-7/8"	5-1/2"	15.5#	4800'	1600 sx.	Surf.

1. MIRU. Pull rods and pump. NU BOP's.
2. COOH w/2-7/8" prod. tubing.
3. GIH w/bit and csg. scraper on 2-7/8" tbg. and clean out to PBTD AT 4718'. POOH.
4. GIH W/5-1/2" RBP pkr. on 2-7/8" tbg. Set RBP at +/- 4175'. Pull uphole, set pkr. and test RBP to 1000 psig. Release pkr. and circulate 2 sks. of sand on top of RBP.
5. Pull uphole to 3820' and spot 500 gals. of 10% MSA acid across Queen interval to be perforated (3798'-3818'). COOH
6. GIH w/4" csg. gun loaded with 22.7 gram charges. Perf. Queen from 3798'-3810' and 3816'-3818' with 2 SPF.
7. Frac. treat the Queen: Total Gel Volume = 20,000 gals-includes 40 bbls. tank bottoms; Total Proppant = 50,700 lbs. 16/30 Ottawa sand; Rate = 15 Bbl/Min. Anticipated WHTP = 2,500 psig.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE

TITLE Supv. Regulatory Affairs DATE 05-18-93

(915)

TYPE OR PRINT NAME I. M. Sanders

TELEPHONE NO. 368-1448

(This space for State ORIGINAL SIGNED BY JERRY SEXTON)

DISTRICT SUPERVISOR

MAY 20 1993

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

PhilMex No. 23
B-2229
Lea County, NM

Pump Schedule:

- A. Pump 8,000 gals Boragel G3195 pad volume
 - B. Pump 7,000 gals Boragel G3195 with 2 ppg 16/30 Ottawa sand ramping to 10 ppg 16/30 Ottawa sand.
 - C. Pump 1,000 gals Boragel G3195 with 10 ppg 16/30 Ottawa sand.
 - D. Pump 2,400 gals base gel flush (eliminate cross linker).
- 8. Flow well back immediately for forced closure.
 - 9. RIH with slick line and tag fill. Clean out to RBP at 4175' as required. COOH with tubing and packer.
 - 10. GIH with 2-7/8" sand screen joint with 8' perforated interval on 2-7/8" production tubing to +/-3820'.
 - 11. GIH with pump and rod string.
 - 12. Return well to production.

05-18-93
AF:ehg

RegPro:AFran:Philmx23.101

RECEIVED

MAY 19 1993

300 NORTH ST

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Egy, Minerals and Natural Resources Department.

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

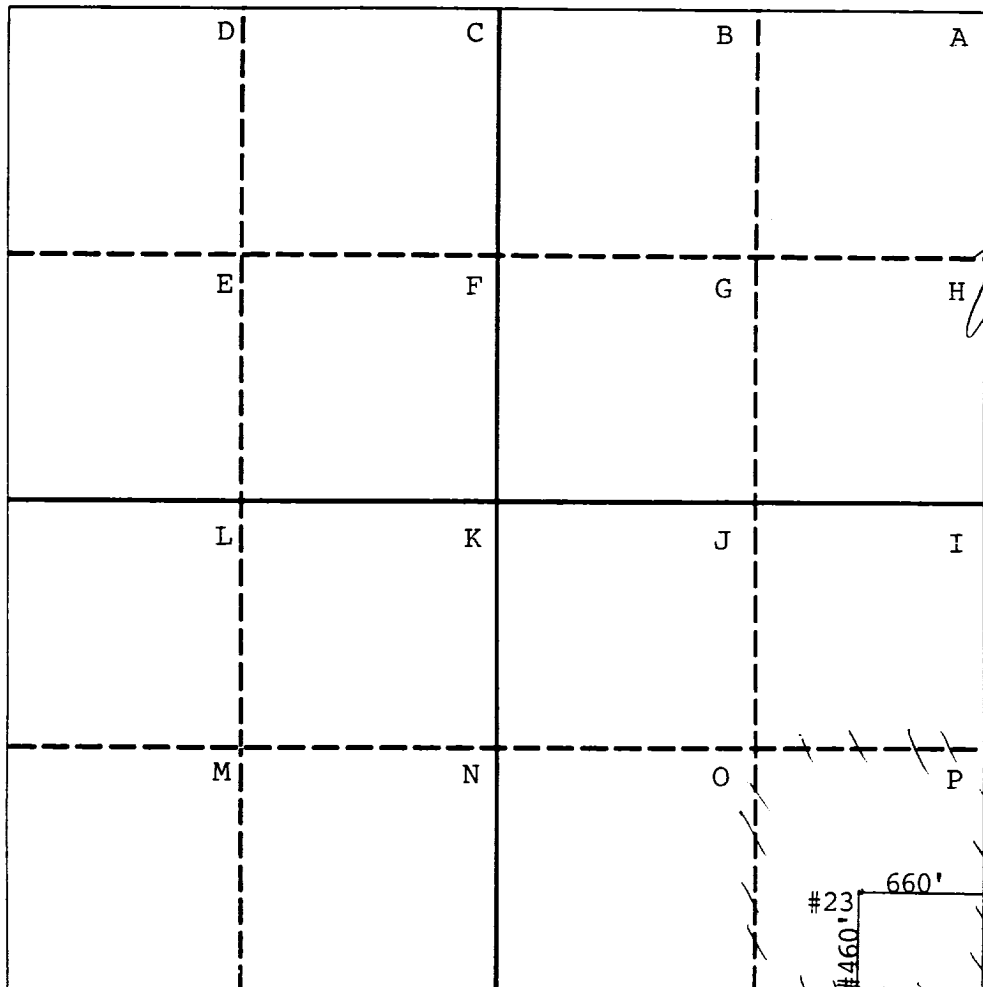
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Phillips Petroleum Company		Lease Philmex		Well No. 23
Unit Letter P	Section 26	Township 17-S	Range 33-E	County NMPM Lea
Actual Footage Location of Well:				
460 feet from the South line and		660 feet from the East line		
Ground level Elev. 4124' GL	Producing Formation Queen	Pool Undesignated (Queen)	Dedicated Acreage: 40 Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? ☐ Yes ☐ No If answer is "yes" type of consolidation _____ If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.				



OPERATOR CERTIFICATION

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

Signature

Printed Name

L. M. Sanders

Position

Supv., Reg. Affairs

Company

Phillips Petroleum Co.

Date

5/17/93

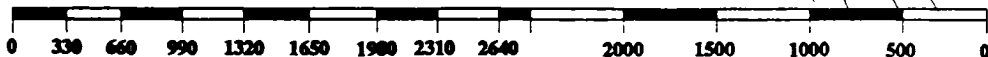
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.



WELL SERVICE APPROVAL
 PHILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION
 Procedure No. 93132

Date May 10, 1993

RKB @ 4133.0'
 DF @ 4132.0'
 GL @ 4124.0'

Category Code: NONE
 Area North Subarea Buckeye
 Lease & Well No. PhilMex #23
 Legal Description 460' FSL & 660' FEL, Section 26, T17S - R33E
 Lea County State: New Mexico
 Field Maljamar
 Status: PM Date: Apr 1993: 10 BOPD 2 BWPD 1.6 MCFPD
 Tbg. 4588' of 2-7/8" 6.5# J-55
 Other _____

Date Spudded: December 29, 1987
 Hole/Casing Condition Good
 Last Stimulation: January 20, 1988

Workover Proposal: Temporarily abandon the Grayburg/San Andres, perforate, acidize, and fracture treat the Queen formation from 3798' - 3818'.
 Wellhead Description: (Include connection that BOP will bolt to)
 Not shown in wellfiles. Vendor to verify prior to RU.

PROJECT JUSTIFICATION:

The Queen formation in the PhilMex #23 well consists of approximately 17 feet of >10% porosity rock. Other Queen producing wells in the area have averaged cumulative oil production of 30,000 bbls.

Stimulation History:

Interval	Date	Type	Gals	Sand	Rate	Press
4214-4637	1/18/88	15% NEFE	10,100	275 RCNBS	4.0	2000#
4214-4637	1/20/88	XL Gel	94,000	182,000#	29.5	3200#

Tubular Ratings (Pw Allowable):

Size	Weight	Grade	Burst	Collapse	Tension
5-1/2"	17.0	K-55	4980	4630	156,000
2-7/8"	6.50	J-55	5930	6670	67,600

Proposed Queen Perfs:
 3798' - 3810'
 3816' - 3818'

4175' RBP - (Proposed Setting Depth)

Grayburg/San Andres
Perfs

==== 4214' - 4216'
 === 4242' - 4244'
 === 4305' - 4310'
 === 4312' - 4314'
 === 4344' - 4346'
 === 4350' - 4354'
 === 4388' - 4390'
 === 4428' - 4431'
 === 4448' - 4451'
 === 4470' - 4476'
 === 4483' - 4485'
 === 4494' - 4498'
 === 4512' - 4518'
 === 4560' - 4604'
 === 4623' - 4637'

Checked by: S.E. Gutberlet/E.A. Hollar

Production Engr.: D.G. Harms

Prod. Engr. Supvr.: K.E. Snow

D&P Engr. Director: S.D. McCoy

North Distr. Mngr.: S. H. Oden

Copies: R.M. Sulak
 (r) Central Files
 D.R. Wier
 (r) S.E. Gutberlet
 S.H. Oden
 (r) D.G. Williamson
 S.D. McCoy
 (r) K.E. Snow
 D.G. Harms
 L.M. Sanders
 L.S. Malone
 M.L. Moore
 J.S. Chimahusky
 J.I. Michaelis
 R.W. Chambers

PROJECT ECONOMICS @ \$ 19.00
 25 BOPD 20 MCFD
 AARR 500 \$
 PAYOUT 0.4 YRS.
 NTER 6.2 TIMES
 NPV @ 13% 167.4
 PI @ 13% 4.72
 ECONOMIC LIFE 10+ YRS.
 EST. COMPL. DATE 6-93

PPCO: W.I. 100.000000 \$
 R.I. 87.500000 \$

CHARGE TO	EXPENSE	AFE	WO	GROSS COST	NET COST
INVESTMENT	93-2552			\$ 45,000	\$ 45,000
TOTAL				\$ 45,000	\$ 45,000

TD = 4800'
 PBTD = 4718'