

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

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

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

API NO. (assigned by OCD on New Wells)
30-025-27986

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
B-4118

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 ☐

2. Name of Operator

Phillips Petroleum Company

3. Address of Operator

4001 Penbrook St., Odessa, TX 79762

7. Lease Name or Unit Agreement Name

Lea

8. Well No.

28

9. Pool name or Wildcat

Undesignated (Queen)

4. Well Location

Unit Letter D : 660 Feet From The North Line and 660 Feet From The West Line

Section 19 Township 17-S Range 34-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.)

4120.8' 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#	369	400sx	Surf.
7-7/8"	4-1/2"	11.6#	4800	1450 sx	Surf.

1. MIRU Pull rods and pump. NU BOP's.
2. COOH w/2-3/8" prod. tubing.
3. GIH w/bit and csg. scraper on 2-3/8" tbq. and clean out to PBTD at 4775'.
POOH.
4. GIH w/4-1/2" RBP PKR. on 2-3/8" tbq. Set RBP at +/- 4325'. Pull uphole, set pkr., and test RBP to 1000 psig. Release pkr. and circulate 2 sacks of sand on top of RBP.
5. Pull uphole to 3850' and spot 500 gals. of 10% MSA acid across Queen interval to be perforated (3822'-3840'). COOH w/2-3/8" tbq. and pkr.
6. GIH w/3-1/8" csg. gun loaded with 12.5 gram chgs. Perf. Queen form. 3822'-3830' and 3834'-3840' w/2 SPF.
7. Frac.treat the Queen form: Total Gel Vol. = 20,000 gals.-includes 40 bbls. tank bottoms; Total Proppant = 50,700 lbs. 16/30 Ottawa sand.
Rate = 15 Bbl/Min.; Anticipated WHTP = 2,600 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

TYPE OR PRINT NAME L.M. Sanders

(915)
TELEPHONE NO. 368-1488

(This space for State Use)

MAY 20 1993

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Lea Well No. 28
B-4118
Lea County, New Mexico

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.
-
- 8. Flow well back immediately for forced closure.
 - 9. Clean out to RBP at 4325' as required.
 - 10. RIH w/slick line and tag fill. Clean out to RBP at 4325' as required. COOH.
 - 11. GIH w/2-3/8" sand screen joint with 8' perforated interval on 2-3/8" prod. tubing to +/-3850'.
 - 12. GIH with pump and rod string.
 - 13. Return well to production.

05-18-93
AF:ehg

RegPro:AFran:Lea28.101

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MAY 18 1993

COO HARRIS

WELL SERVICE APPROVAL
HILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION
 Procedure No. 93117

Date April 19, 1993

RKB @ 4132.8'
 DF @ 4131.8'
 GL @ 4120.8'

Category Code: NONE
 Area North Subarea Buckeye
 Lease & Well No. Lea #28
 Legal Description 660' FNL & 660' FNL, Section 19, T17S - R34E
Lea County State: New Mexico
 Field Vacuum
 Status: PM Date: Apr 1993: 3 BOPD 0 BOPD 1.5 MCFPD
 Tbg. 4578' of 2-3/8" 4.7# J-55
 Other _____

8-5/8" 24# K-55 Csg.
 set @ 369'
 Cmdt w/400 sxs
 TOC @ Surface

Date Drilled: November 15, 1982
 Hole/Casing Condition Good
 Last Stimulation: 1/83 - Frac w/54000 lbs 20/40 sand & 32000 gals oil

Workover Proposal: Temporarily abandon the Grayburg/San Andres,
perforate, acidize, and fracture treat the Queen formation from
3822' - 3840'.

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 Lea #28 well consists of approximately 16 feet of >20% 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
4632-4642	1/24/83	15% NEFE	3,000	12 RCNBS	3.2	3400#
4354-4568	1/24/83	15% NEFE	3,000	214 RCNBS	3.7	3200#
4354-4568	1/26/83	Ref. Oil	32,000	32,000#	19.0	6300#

Proposed Queen Perfs:
 3822' - 3830'
 3834' - 3840'

Tubular Ratings (Pw Allowable):

Size	Weight	Grade	Burst	Collapse	Tension
4-1/2"	11.6	N-80	6840	6000	138,000
2-3/8"	4.70	J-55	6290	7040	47,700

4325' RBP - (Proposed Setting Depth)

Perforations
 (Grayburg/SA)

4354' - 4356'
 4405' - 4414'
 4437' - 4438'
 4441' - 4448'
 4491' - 4496'
 4540' - 4543'
 4550' - 4552'
 4558' - 4568'
 4632' - 4642'

TD = 4800'
 PBTD = 4775'

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
 35 BOPD 30 MCFD
 AARR 500+ %
 PAYOUT 0.3 YRS.
 NTER 8.3 TIMES
 NPV @ 13% 237.1
 PI @ 13% 6.33
 ECONOMIC LIFE 10+ YRS.
 EST. COMPL. DATE 5/93
 PPCO: W.I. 100.000000 %
 R.I. 87.500000 %

CHARGE TO	EXPENSE	AFE	INVESTMENT	TOTAL	GROSS COST	NET COST
		WO	93-2536		\$ 44,500	\$ 44,500
					\$ 44,500	\$ 44,500

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MAY 19 1993
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Energy, Minerals and Natural Resources Department

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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
1060 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Phillips Petroleum Company			Lease Lea		Well No. 28
Unit Letter D	Section 19	Township 17-S	Range 34-E	County NMPM Lea	
Actual Footage Location of Well: 660 feet from the North line and 660 feet from the West line					
Ground level Elev. 4120.8' 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.

D		C		B		A	
E		F		G		H	
L		K		J		I	
M		N		O		P	

660' #28

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

May 17, 1993

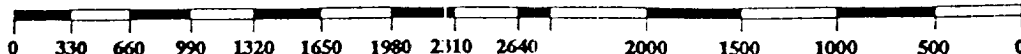
SURVEYOR CERTIFICATION

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.



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MAY 19 1993

OCD HOBBS OFFICE