

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

CONSERVATION DIVISION

Form C-101
Revised 10-1-78

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P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

AMENDED C-101 ONLY: for casing depth and proposed depth.

API NO. 30-015-23696

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5A. Indicate Type of Lease

STATE ☒ FEE ☐

5. State Oil & Gas Lease No.

L-5364

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7. Unit Agreement Name

--- MAR 17 1981

8. Farm or Lease Name

Malaga-C

9. Well No.

ARTESIAN DRIVE

1

10. Field and Pool, or Wildcat

Undesignated-Morrow(Gas)

12. County

Eddy

1a. Type of Work

DRILL ☒

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

Room 401, 4001 Penbrook St., Odessa, Texas 79762

4. Location of Well

UNIT LETTER E

LOCATED 1980

FEET FROM THE North LINE

AND 660

FEET FROM THE West

LINE OF SEC. 36

TWP. 23-S

RGE. 28-E

NMPM

19. Proposed Depth

13,300'

19A. Formation

Morrow

20. Rotary or C.T.

Rotary & C.T.

21. Elevations (Show whether DT, RT, etc.)

2089.6 (Unprepared)

21A. Kind & Status Plug. Bond

Blanket

21B. Drilling Contractor

Empire Drlg. Co.

22. Approx. Date Work will start

Upon Approval

23.

Note: Proration acreage is dedicated. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
24"	18-5/8"	87.5#, K-55	450'	850 sxs C1 "C" w/2% CaCl ₂	
	(Cement must circulate)				
17-1/2"	13-3/8"	61#, K-55	2750'	Sufficient to circulate	
	(to surface w/volume survey and 50% excess using TLW, 2.19cf/sx w/10% DD, 10% salt folowed by 300 sxs C1 "C" w/2% CaCl ₂)				
12-1/4"	9-5/8"	36#, K-55	10,000	Sufficient to tie back into	
	40#, S-95				

133/8" ~~18-5/8"~~ csg. w/caliper volume + 30% excess w/DV collar at ± 4600'
1st Stage: cmt. w/C1 "C", 3.32 cf/sx, w/30% Diacel D, 1/4#/sx Flocele, 5#/sx Gilsonite (12 hr. strength= 500 psi), Followed by 200 sx C1 "C" Neat. Circulate between stages 5 hrs.
2nd Stage: Cement w/C1 "C", 3.32 cf/sx, w/30% Diacel D, 24 hr. strength=210 psi; (72 hr. strength = 710 psi), Followed by 200 sxs C1 "C" Neat.
8-5/8" 5-1/2" 20#, 17#, N-80 13,300' Sufficient to single stage (tie back into 9-5/8" csg. w/caliper volume + 30% excess C1 "C" w/0.10% LWL, 2#/sx KC1, appropriate friction reducer.)

(Cont'd)

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.

Signed: W. J. Mueller Title Sr. Engineering Specialist Date March 12, 1981

(This space for State Use)

APPROVED BY: Mike Williams TITLE OIL AND GAS INSPECTOR DATE MAR 18 1981

CONDITIONS OF APPROVAL, IF ANY:

Use mud additives as required for control.
BOP Equipment Series 1500#, 5000# Per Figure 5, Schematic attached.
10,000 psi working pressure per Figure 2, Schematic attached.