

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

State of New Mexico
Er., 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 Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

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

AMENDED

SEP - 4 1991

O. C. D.

API NO. (assigned by OCD on New Wells)
30-015-26815

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
NM-V-3605

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, Texas 79762

4. Well Location
Unit Letter C : 660 Feet From The North Line and 1980 Feet From The West Line
Section 1 Township 22-S Range 31-E NMPM Eddy County

7. Lease Name or Unit Agreement Name
MOLLY STATE

8. Well No.
1

9. Pool name or Wildcat
Livingston Ridge (Delaware)

10. Proposed Depth
8500'

11. Formation
Delaware

12. Rotary or C.T.
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)
3563' (unprepared)

14. Kind & Status Plug. Bond
Blanket

15. Drilling Contractor
Advise later

16. Approx. Date Work will start
upon approval

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	54.5#	850'	1200 sk C	surface
12-1/4"	8-5/8"	24#	4500'	1400 sk C	surface
7-7/8"	5-1/2"	15.5# & 17#	8500'	1st stage 400 ck C Neat	7000' (stage tool
				2nd stage 200 sk C	4000'
				Tail 300 sk C neat	6000'

AMENDED TO CHANGE SETTING DEPTH OF SURFACE AND INTERMEDIATE CASING

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 9/9/92
UNLESS DRILLING UNDERWAY

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 L. M. Sanders TITLE Supervisor Regulation & Proration DATE 9/3/91

TYPE OR PRINT NAME L. M. Sanders (915) 368-1667
TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY
MIKE WILLIAMS

APPROVED BY SUPERVISOR, DISTRICT II TITLE DATE SEP - 9 1991

CONDITIONS OF APPROVAL, IF ANY:

NOTIFY N.M.O.C.D. IN SUFFICIENT
TIME TO WITNESS CEMENTING THE
1358-858-5/2 CASING

PROPOSED CASING & CEMENTING PROGRAM

MOLLY STATE WELL NO. 1

August 28, 1991

13 3/8" 54.5 lb/ft J-55 Surface Casing Set at 850' - 17 1/2" Hole:

Circulate to surface with 1200 sacks of Class "C" + 2% CaCl₂.

Slurry Weight:	14.8 ppg ₃
Slurry Yield:	1.32 ft ³ /sx
Water Requirement:	6.3 gals/sx

8 5/8" 24 & 32 lb/ft J-55 Intermediate Casing Set at 4500' - 12 1/4" Hole:

Lead: 1200 sx Class "C" 65/35 Poz + 6% Bentonite + 15 lb/sx Salt.

Slurry Weight:	13.2 ppg ₃
Slurry Yield:	1.92 ft ³ /sx
Water Requirement:	9.9 gals/sx

Tail: 200 sx Class "C" + 10 lb/sx salt.

Slurry Weight:	15.2 ppg ₃
Slurry Yield:	1.38 ft ³ /sx
Water Requirement:	6.3 gals/sx

5 1/2" 15.5 & 17 lb/ft J-55 Production Casing Set at 8500' - 7 7/8" Hole:

Set stage tool at approximately 7000'.

1st Stage: 400 sx Class "C" Neat. Desired TOC = 7000'

Slurry Weight:	14.8 ppg
Slurry Yield:	1.32 ft ³ /sx
Water Required:	6.3 gal/sx

2nd Stage:

Lead: 200 sx Class "C" + 20% Diacel "D". Desired TOC = 4000'.

Slurry Weight:	12.0 ppg ₃
Slurry Yield:	2.69 ft ³ /sx
Water Requirement:	15.5 gals/sx

Tail: 300 sx Class "C" Neat. Desired TOC = 6000'.

Slurry Weight:	14.8 ppg ₃
Slurry Yield:	1.32 ft ³ /sx
Water Requirement:	6.3 gals/sx

MUD PROGRAM

MOLLY STATE WELL NO. 1

August 28, 1991

DEPTH	MUD WEIGHT	VISCOSITY	FLUID LOSS	CL PPM	% SOLIDS	ADDITIVES
Surf - 850'	8.3-9.0 ppg	28-36 sec/1000 cc	-	-	-	Native Solids
400' - 4500'	10.0 ppg	29-32 sec/1000 cc	-	Saturated	-	Native Solids
4500' - 5500'	8.3-9.5 ppg	28-36 sec/1000 cc	-	-	-	
5500' - 8500'	8.5-9.0 ppg	32-38 sec/1000 cc	15 cc or less	-	-	Gel/Drispac Plus

Remarks: Use DBX dripped into flowline 10-15' upstream from lower end if extra settling of solids is desired while circulating the reserve.

The Mud Engineer shall include on each test report the materials used for the previous 24 hr. period. Twice weekly mail copies of the test reports to:

A. C. Sewell
4001 Penbrook
Odessa, Texas 79762

Send two copies of the Well Recap (Final Cost & Engineering Summaries) to A. C. Sewell at the above address.