

## M. GILCONS. COMMISSION

Form 3160-3  
(July 1992)OPER. OGRID NO. 17891IN TRIP. ATE\*  
Instructions on  
reverse side)FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995DEPART PROPERTY NO. 9331BURE POOL CODE 39366APPLICATION F EFF. DATE 8-28-96

EN

1a. TYPE OF WORK

DRILL ☒API NO. 30-025-33556

b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

POGO PRODUCING COMPANY

3. ADDRESS AND TELEPHONE NO.

Phone 915-682-6822

P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (RICHARD WRIGHT)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface330' FNL & 330' FWL SEC 19 T22S-R32E LEA CO. NM  
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

30 Miles East of Carlsbad New Mexico

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

330'

16. NO. OF ACRES IN LEASE

280

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

660'

19. PROPOSED DEPTH

8750'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3597 GR.

22. APPROX. DATE WORK WILL START\*

As soon as approved

23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	H-40 10 3/4"	32.75	800'	675 Sx. Circulate To Surface
9 7/8"	J-55 7 5/8"	26.75	4500"	1350 Sx. Circulate To Surface
6 3/4"	J-5- & N-80 4 1/2"	11.5	8750'	900 Sx. TOC 3500'

1. Set 40' of 20" conductor pipe and cement to surface with Redi-Mix.
2. Drill 14 3/4" hole to 800'. Run and set 800' of 10 3/4" H-40 32.75# ST&C casing. Cement with 675 Sx of cement + additive, circulate cement to surface.
3. Drill 9 7/8" hole to 4500'. Run and set 4500' of 7 5/8" J-55 26.4# ST&C casing. Cement with 1350 Sx. of cement + additives. Circulate cement to surface.
4. Drill 6 3/4" hole to 8750'. Run and set 8750' of 4 1/2" J-55 & N-80 LT&C 11.6 # LT&C casing. Cement with 900 Sx of cement with additives. Bring cement top back up to 3500', verify with log or temp. survey.

*[Handwritten signatures and stamps]*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE AgentDATE 07/12/96

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

(ORIG. SCD.) RICHARD L. MANUS

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the U.S. Government any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

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

OIL CONSERVATION DIVISION  
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV  
P.O. BOX 2068, SANTA FE, N.M. 87504-2068

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-33056	Pool Code 39366	Pool Name LIVINGSTON RIDGE DELAWARE EAST
Property Code 009331	Property Name EAST LIVINGSTON RIDGE UNIT	Well Number 10
OGRID No. 17981 17891	Operator Name POGO PRODUCING COMPANY	Elevation 3597

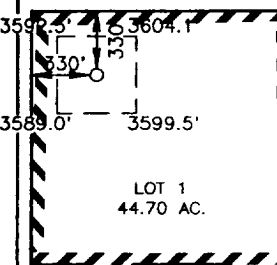
Surface Location

UL or lot No. 1	Section 19	Township 22 S	Range 32 E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 330	East/West line WEST	County LEA
--------------------	---------------	------------------	---------------	---------	----------------------	---------------------------	----------------------	------------------------	---------------

Bottom Hole Location If Different From Surface

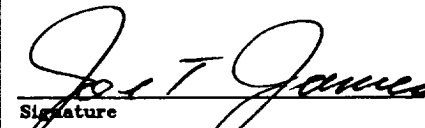
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

									
LOT 1 44.70 AC.									
LOT 2 44.75 AC.									
LOT 3 44.79 AC.									
LOT 4 44.84 AC.									

**OPERATOR CERTIFICATION**

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

  
Signature  
Joe T. Jarica  
Printed Name  
Agent  
Title  
07/12/96  
Date

**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 belief.

JUNE 18, 1996

Date Surveyed  
Signature of Surveyor  
Professional Surveyor  
NEW MEXICO  
CDG  
96-11-0719  
24-96  
Certified No. JOHN W. EIDSON 676  
3239  
12641

APPLICATION TO DRILL  
POGO PRODUCING COMPANY  
EAST LIVINGSTON RIDGE UNIT # 10  
330' FNL & 330' FWL SEC. 19  
T22S-R32E LEA CO. NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

1. Location: 330' FNL & 330' FWL SEC. 19 T22S-R32E LEA CO. NEW MEXICO
2. Elevation above sea level: Gr. 3597'
3. Geologic name of surface formation: Quaternary Aeolian Deposits.
4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
5. Proposed drilling depth: 8750'
6. Estimated tops of geological markers:

Rustler Anhydrite	775'
Delaware	4475'
Cherry Canyon	5550'
Brushy Canyon	7300'
7. Possible mineral bearing formation:

Delaware OIL

8. Casing program:

Hole size	Interval	OD casing	Weight	Thread	Collar	Grade	Condition
26"	0-40'	20"	NA	NA	NA	NA	New
14 3/4"	0-800'	10 3/4"	32.75	8-R	ST&C	H-40	New
9 7/8"	0-4500'	7 5/8"	26.4	8-R	ST&C	J-55	New
6 3/4"	0-8750'	4 1/2"	11.6	8-R	LT&C	J-55 & N-80	New

APPLICATION TO DRILL  
 POGO PRODUCING COMPANY  
 EAST LIVINGSTON RIDGE UNIT # 10  
 330' FNL & 330' FWL SEC. 19  
 T22S-R32E LEA CO. NM

9. Cementing & Casing setting depth:

20" Conductor	Set 40' of 20" conductor and cement to surface with Redi-Mix.
10 3/4" Surface	Set 800' of 10 3/4" H-40 32.75# ST&C casing cement with 675 Sx. of cement + additives, circulate cement to surface.
7 5/8" Intermediate	Set 4500' of 7 5/8" J-55 26.4# ST&C casing cement with 1350 Sx of cement + additives circulate cement to surface.
4 1/2" Production	Set 8750' of 4 1/2" J-55 & N-80 11.6# LT&C casing cement with 900 Sx. cement + additives. Bring top of cement back to 3500' verify with log or temp. survey.

10. Pressure Control Equipment:

Exhibit "E" shows a 900 Series 3000 PSI working pressure double ram type Blow Out preventor, hydraulically operated. Exhibit "E-1" shows the choke manifold and closing unit. Blind rams on top and pipe rams on bottom to correspond with the drill pipe size being used. The BOP will be nipped up on the 10 3/4" casing and remain on the hole till the casing is run and cemented. The BOP will be tested after each string of casing is run and will be worked at least once each day while drilling and blind rams will be worked when drill pipe is out of hole. Flow sensor, PVT, full opening stabbing valve and upper kelley cock will be utilized.

11. Proposed Mud Circulating System:

Depth	Mud Wt.	Mud Visc.	Fluid Loss	Type Mud
0-800'	8.6	29-34	NC	Fresh water Spud Mud
800-4500'	10-10.5	28-30	NC	Brine water paper for Seepage control.
4500-8750'	10-10.5	28-34	NC	Brine water paper for Seepage control.

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirments will be kept at the well site at all times. In order to log well and run casing the viscosity may have to be raised and the water loss lowered.

APPLICATION TO DRILL  
POGO PRODUCING COMPANY  
EAST LIVINGSTON RIDGE UNIT # 10  
330' FNL & 330' FWL SEC 19  
T22S-R32E LEA CO. NM

12. Testing, Logging and Coring Program:

- A. DST'S may be run if shows dictate.
- B. Mud logger will be employed from 4500' to TD.
- C. Open hole electric logs will be run. Gamma Ray, Caliper, CNL-DENSITY, Dual -Laterlog.
- D. No cores are planned.

13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 3200 PSI, estimated BHT 125°. H<sub>2</sub>S contingency plan is included with this APD.

14. Anticipated Starting Date and Duration of Operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 20 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Delaware pay will be perforated and stimulated. The well will be swab tested and potentialized as an Oilwell.

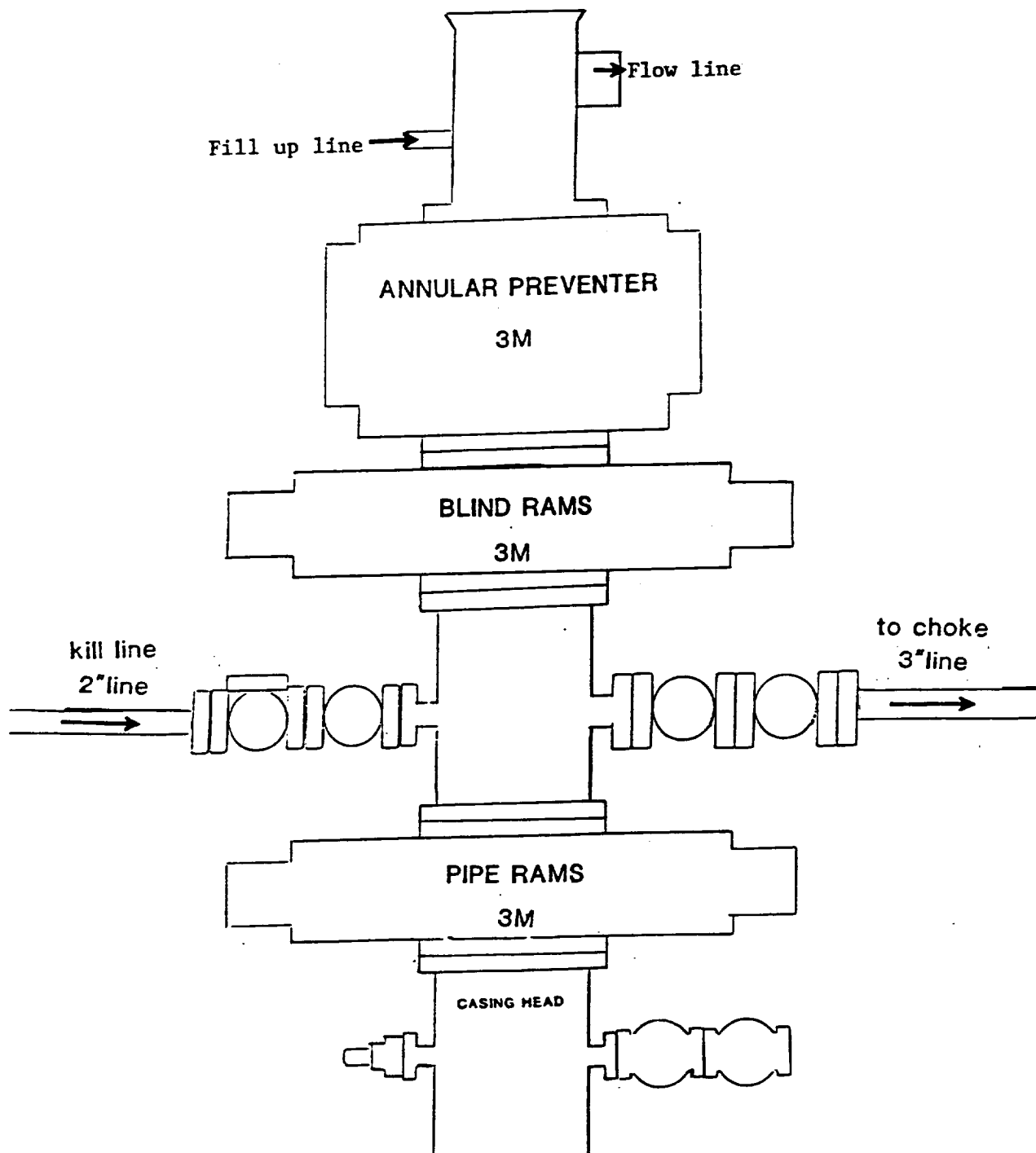


EXHIBIT "E"  
 B.O.P. SKETCH TO BE USED ON  
 POGO PRODUCING COMPANY  
 EAST LIVINGSTON RIDGE UNIT # 10  
 330' FNL & 330' FWL SEC. 19  
 T22S-R32E LEA CO. NM