

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK <b>DRILL</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM-62589
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Pogo Producing Company ✓			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 10340 Midland, TX 79702-7340			8. FARM OR LEASE NAME Federal 23
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FSL & 660' FEL of Section 23 At proposed prod. zone 660' FSL & 660' FEL of Section 23			9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 28 miles East of Carlsbad, New Mexico			10. FIELD AND POOL, OR WILDCAT Livingston Ridge, Delaware
13. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T-22-S, R-31-E
16. NO. OF ACRES IN LEASE 640			12. COUNTY OR PARISH Eddy
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE New Mexico
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3960'			20. ROTARY OR CABLE TOOLS 0-8420
19. PROPOSED DEPTH 8500'			22. APPROX. DATE WORK WILL START* 2/20/91
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3574.0 GR; 3572 Casinghead			

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5	845	800 sxs - circ 210 sxs
11"	8-5/8"	24, 28 & 32	4,394	1340 sxs - circ 250 sxs
7-7/8"	5-1/2"	15.5 & 17.0	8,420	1st stage: 730 sxs (tool 6200') 2nd stage: 510 sxs

Proposal: Temporarily abandon existing Lower Delaware zone (8090-8198) OA - after having established reserves in Delaware zone Pogo elects to move up to main competitive pay (7046-7065). This well presently produces 15-20 BOPD.

Procedure: Seal off perfs (8090-8198) OA w/RBP - perforate and stimulate Delaware 7046-7065.

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. 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 [Signature] TITLE Div. Operations Supervisor DATE 2/07/91  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 2/15/91  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

Artesia, New Mexico

DATE: February 11, 1991

Pogo Prod. Co.

P.O. Box 10340

Midland, Tx 79702-7340

Re: Wells placed in pools

Gentlemen:

As the result of Division Order R-9418 the following described well ~~(s)~~ (has ~~have~~) been placed in the pool ~~(s)~~ shown below. This change in nomenclature has been made in our files. Please change your records to reflect the proper pool name. All subsequent reports must show this nomenclature until further notice.

Livingston Ridge - Delaware Pool

Federal 23 #1 P-23-22-31

Transporters are advised, by copy of this letter, to change their records to reflect the pool name as established by this order, effective February 1, 1991.

Sincerely,

*Darrell Moore*

Darrell Moore  
Geologist

cc: Each transporter Enron  
Mae  
PI  
Well file ✓  
Joe Chism  
BLM  
Santa Fe

Texaco