

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-101  
Revised 10-1-78

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

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MAY 31 1985

Indicate Type of Lease

STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

NM - 44508

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

ARCO Oil & Gas Company, A Division of  
Atlantic Richfield Company

3. Address of Operator

P. O. Box 5540  
Denver, Colorado 80217

4. Location of Well

UNIT LETTER K LOCATED 1740 FEET FROM THE South LINE

AND 1800

FEET FROM THE West LINE OF SEC. 27 TWP. 25N RGE. 3W NMPM

7. Unit Agreement Name

N/A

8. Farm or Lease Name

ARCO Leeson -

9. Well No.

1

10. Field and Pool, or Wildcat

W. Lindrith <sup>Gallup/Dakota</sup> Field

12. County

Rio Arriba

19. Proposed Depth

8200'

19A. Formation

Dakota/Gallup

20. Rotary or C.T.

Rotary

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

7210' GR

21A. Kind & Status Plug. Bond

Blanket

21B. Drilling Contractor

To Be Awarded

22. Approx. Date Work will start

June, 1985

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	9-5/8"	36.0#	500'	265 sx	Surface
8-3/4"	5-1/2"	17.0#	8200'	2 Stage:	500'
				1st Stage - 625 sx	
				2nd Stage - 1100 sx	

Propose to drill to a depth sufficient to fully evaluate and complete this well within the Gallup and Dakota formations. Attached please find the certified location plat shown as Exhibit #1 as well as the BOP stack arrangement, choke manifold arrangement, and the BOP specifications shown as Exhibits #2-4 respectively. The minimum specifications for pressure control will be as follows:

Interval

500 -

Pressure Control Equipment

3000 psi double ram preventer

(one blind, one pipe) and rotating head

SPUD NOTICE MUST BE SUBMITTED  
WITHIN 10 DAYS.

It is requested this well be included within the west Lindrith Field and therefore be approved for 160 acre spacing for the Gallup and Dakota Formations. For any questions regarding this permit please contact Suzanne Barnes within ARCO's Drilling Engineering Group at 303-293-1077

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 Charles Gholson Title Operations Manager Date 5/20/85

Original Signed by CHARLES GHOLSON

DEPUTY OIL & GAS INSPECTOR, DIST. #3

MAY 31 1985

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



EXHIBIT 2  
BOP STACK ARRANGEMENT

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OIL CON. DIV.  
DIST. 3

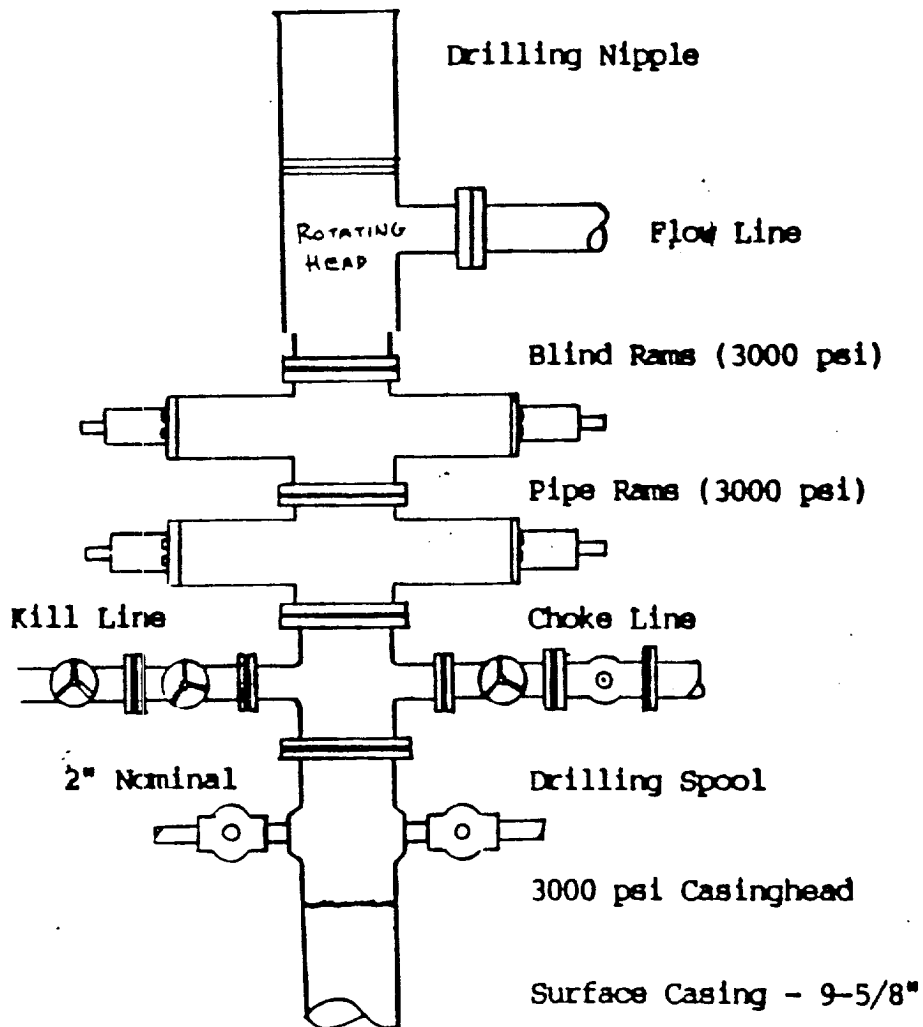


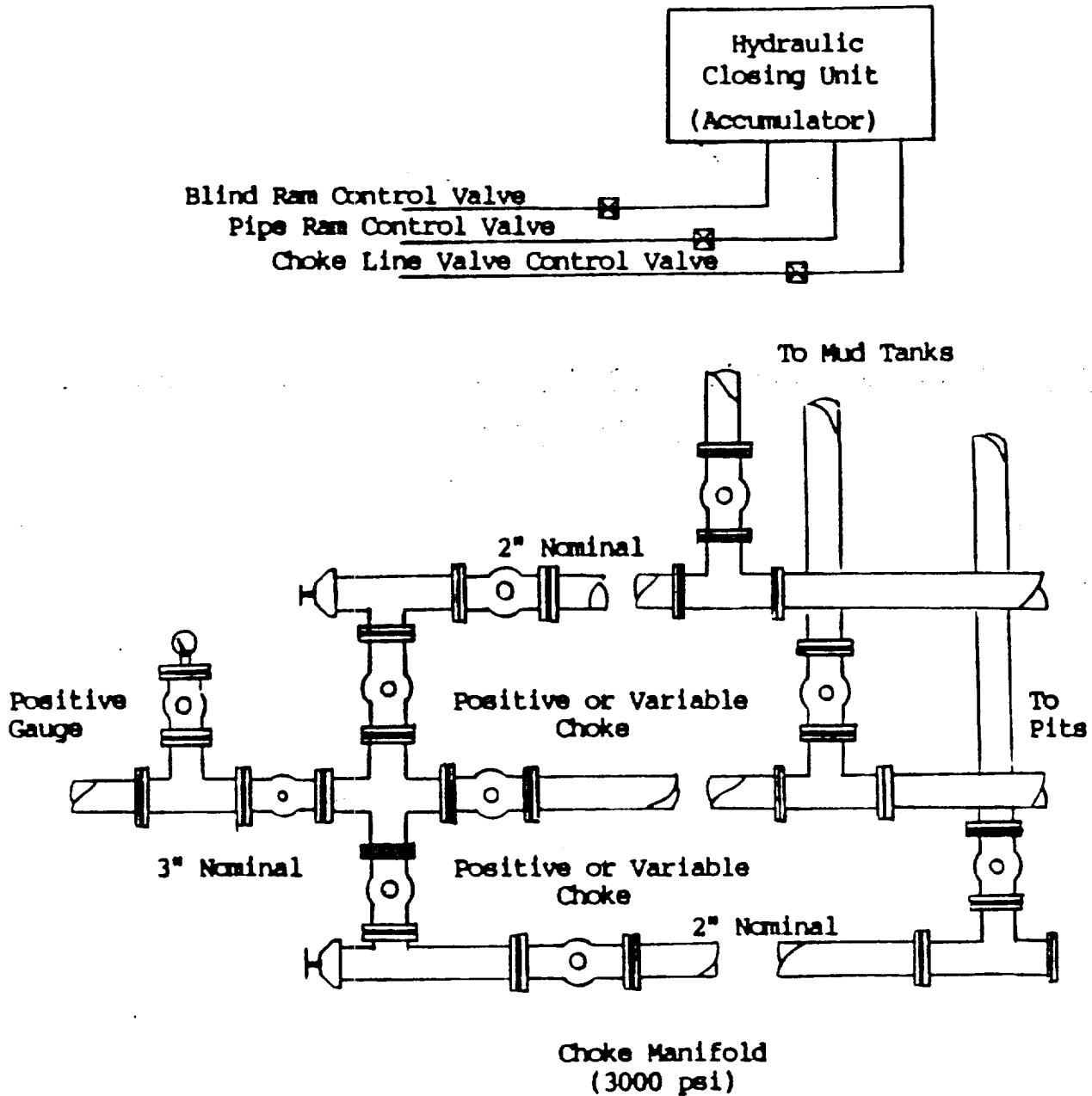


EXHIBIT 3  
BLOWOUT PREVENTION EQUIPMENT  
CHOKE MANIFOLD

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EXHIBIT 4  
BLOWOUT PREVENTION EQUIPMENT

BOP Specifications

1. All BOP equipment shall be fluid and or mechanically operated.
  2. BOP's and all fittings will be in good working condition.
  3. Equipment through which the bit must pass shall be at least as large as casing size being drilled.
  4. Nipple above BOP shall be at least same size as casing set.
  5. Upper Kelly Cock and lower Kelly Cock shall be rated at the BOP working pressure.
  6. Floor safety valve (Full opening) or drill string BOP with appropriate rated pressure shall be available on rig floor with connections or subs to fit any tool joint in string.
  7. Minimum size for choke line shall be 3 inches nominal diameter, minimum size for vent lines downstream of chokes shall be 2 inches nominal, and vent lines which by-pass shall be a minimum of 3 inches nominal and shall be as straight as possible.
  8. All valves, fittings and lines between the closing unit and the blowout preventer stack should be of steel construction with a rated working pressure at least equal to working pressure rating of the stack. Lines shall be bundled and protected from damage.
  9. Rams will be used in following positions: (ARCO Drl. Supv. may reverse ram location)
    - a) 3000 psi WP minimum
- |           |                 |
|-----------|-----------------|
|           | <u>Drilling</u> |
| Upper Ram | Blind           |
| Lower Ram | Drill Pipe      |
10. Minimum size for kill line is 2 inches nominal.
  11. Ram type preventers shall be equipped with extension hand wheels or hydraulic locks.

ALL SPECIFICATIONS LISTED ARE PER API-RP53

# NEW MEXICO OIL CONSERVATION COMMISSION

## WELL LOCATION AND ACREAGE DEDICATION PLAT

# RECEIVED

 Form C-102 ...  
 Supersedes C-128  
 Effective 1-1-65

MAY 31 1985

All distances must be from the outer boundaries of the Section.

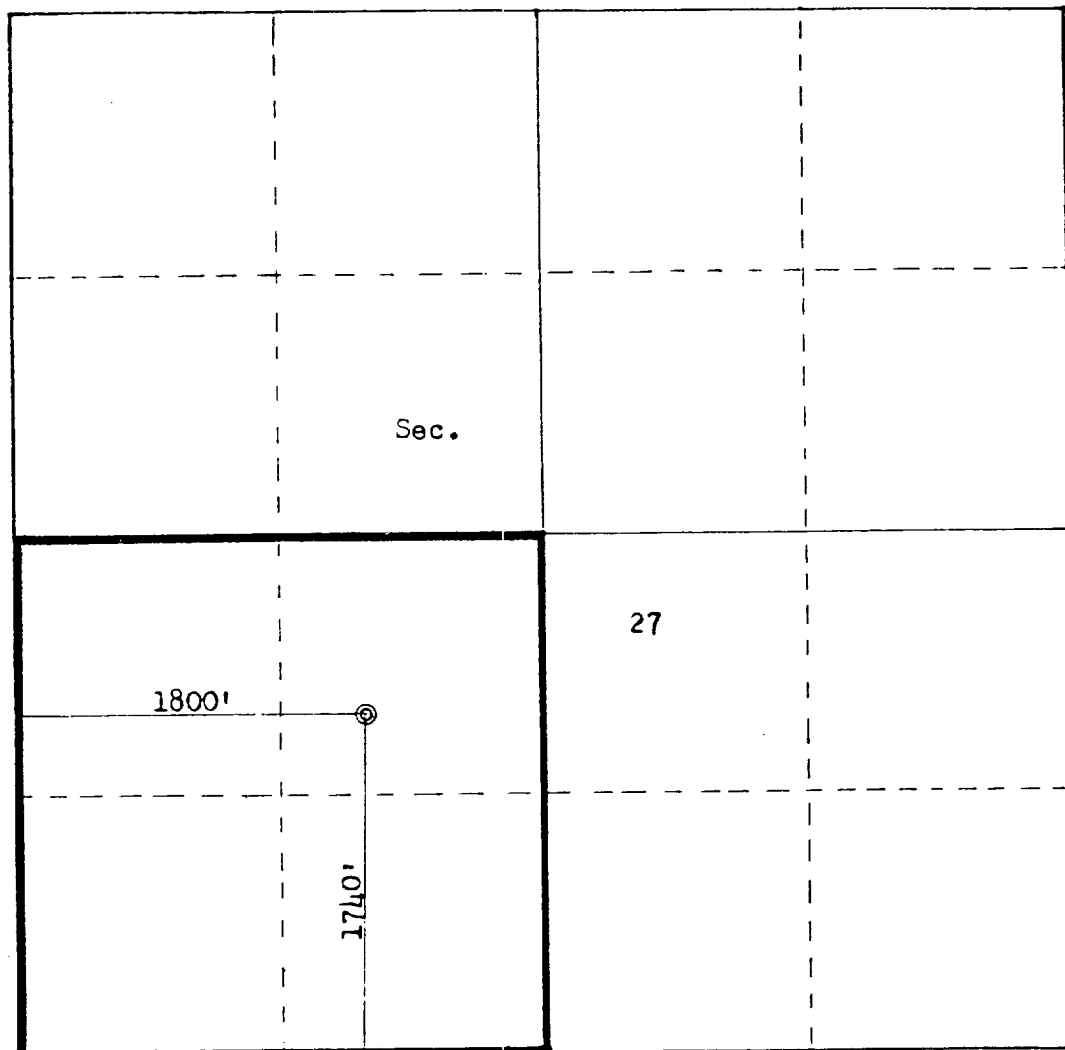
Operator <b>ARCO OIL &amp; GAS COMPANY</b>			Lease <b>ARCO-LEESON</b>		Well No. <b>1</b>
Unit Letter <b>K</b>	Section <b>27</b>	Township <b>25N</b>	Range <b>3W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1740</b> feet from the <b>South</b> line and <b>1800</b> feet from the <b>West</b> line					
Ground Level Elev: <b>7210</b>	Producing Formation <b>Gallup-Dakota</b>		Pool <b>W. Lindrith Gallup-Dakota</b>		Dedicated Acreage <b>160</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 interests 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 interests, has been approved by the Commission.



### CERTIFICATION

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

Name

L. B. Morse

Position

Operations Manager

Company

ARCO Oil &amp; Gas Company

Date

5/28/85

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

May 14, 1985

 Registered Professional Engineer  
 and Land Surveyor

 Fred B. Kert Jr.  
 Certificate No. 4230



