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# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-85

5A. Indicate Type of Lease
STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>

5. State Oil & Gas Lease No.  
K-3851

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name Lea 946 State	
2. Name of Operator ARCO Oil and Gas Company Division of Atlantic Richfield Company		9. Well No. 1	
3. Address of Operator P. O. Box 1710, Hobbs, New Mexico 88240		10. Field and Pool, or Wildcat Indesignated	
4. Location of Well UNIT LETTER E LOCATED 1980 FEET FROM THE North LINE AND 660 FEET FROM THE West LINE OF SEC. 2 TWP. 18S RGE. 35E NMPM		12. County Lea	
19. Proposed Depth 5000'		19A. Formation Queen	
20. Rotary or C.T. Compl Rig		21. Elevations (Show whether DF, RT, etc.) 3902' GR	
21A. Kind & Status Plug. Bond GCA #8		21B. Drilling Contractor Not selected	
22. Approx. Date Work will start 11/5/84			

### PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
No change in casing program now in well					

TA Abo, cement squeeze Queen interval. Perforate Queen and acidize in the following manner:

1. RU, install BOP, POH w/production tbg.
2. Set CIBP @ 5000'. Spot 5 sx cmt on top. TA Bone Springs.
3. Perforate @ 4300' w/4 JS. Set pkr @ approx 4200' & break circ to surf thru perms @ 4300'. Displace cmt thru perms & circ to surf, isolate Queen zone. WOC. DO cmt & press test squeeze job. Run Bond log across Queen interval.
4. Perforate Queen w/2 JSPF @ 4180, 82, 84, 86, 88, 90' w/12 holes.
5. Set pkr @ approx 4130' & acidize w/2000 gals 15% NEFE HCL. Frac w/10,000 gals gel & 18,000' sd. Swab back load & test.
6. Run production assy, remove BOP. RIH w/rods & pump, return to production.

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.

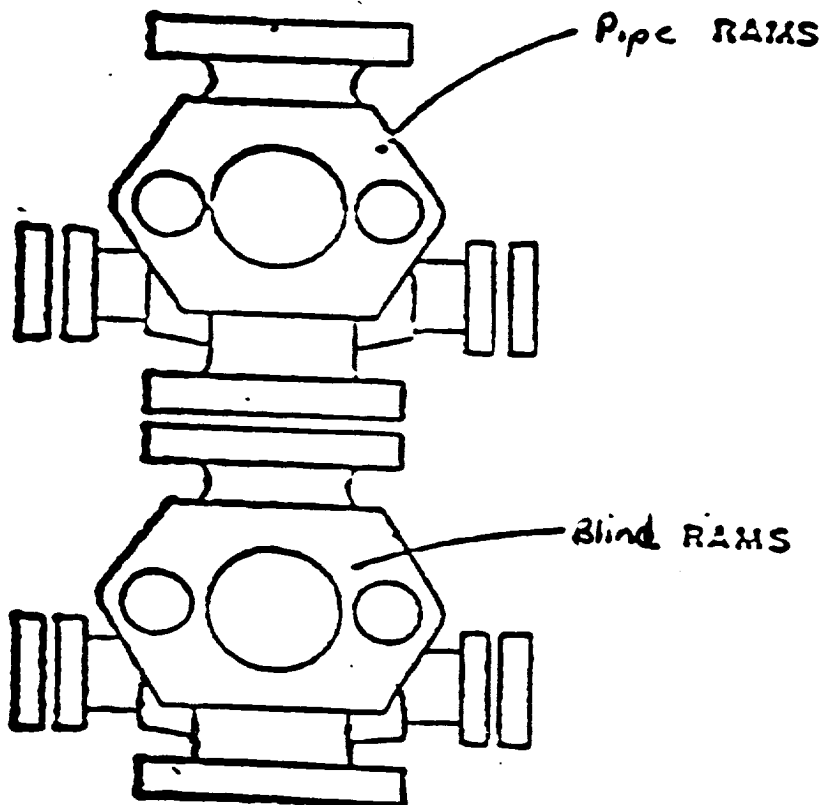
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed E. L. Bush Title Drllg. Engr. Date 11/2/84

(This space for State Use)

APPROVED BY 11/6/84 TITLE  DATE NOV - 7 1984

CONDITIONS OF APPROVAL, IF ANY:



ARCO Oil & Gas Company

Division of Atlantic Richfield Company

**Blow Out Preventer Program**

**Lease Name** Lea 946 State

**Well No.** 1

**Location** 1980' FNL & 660' FWL  
Sec 2-18S-35E, Lea County

**BOP to be tested when installed on well and will be maintained in good working condition during drilling. All wellhead fittings to be of sufficient pressure to operate in a safe manner.**

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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

Form C-102  
Revised 10-1-78

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

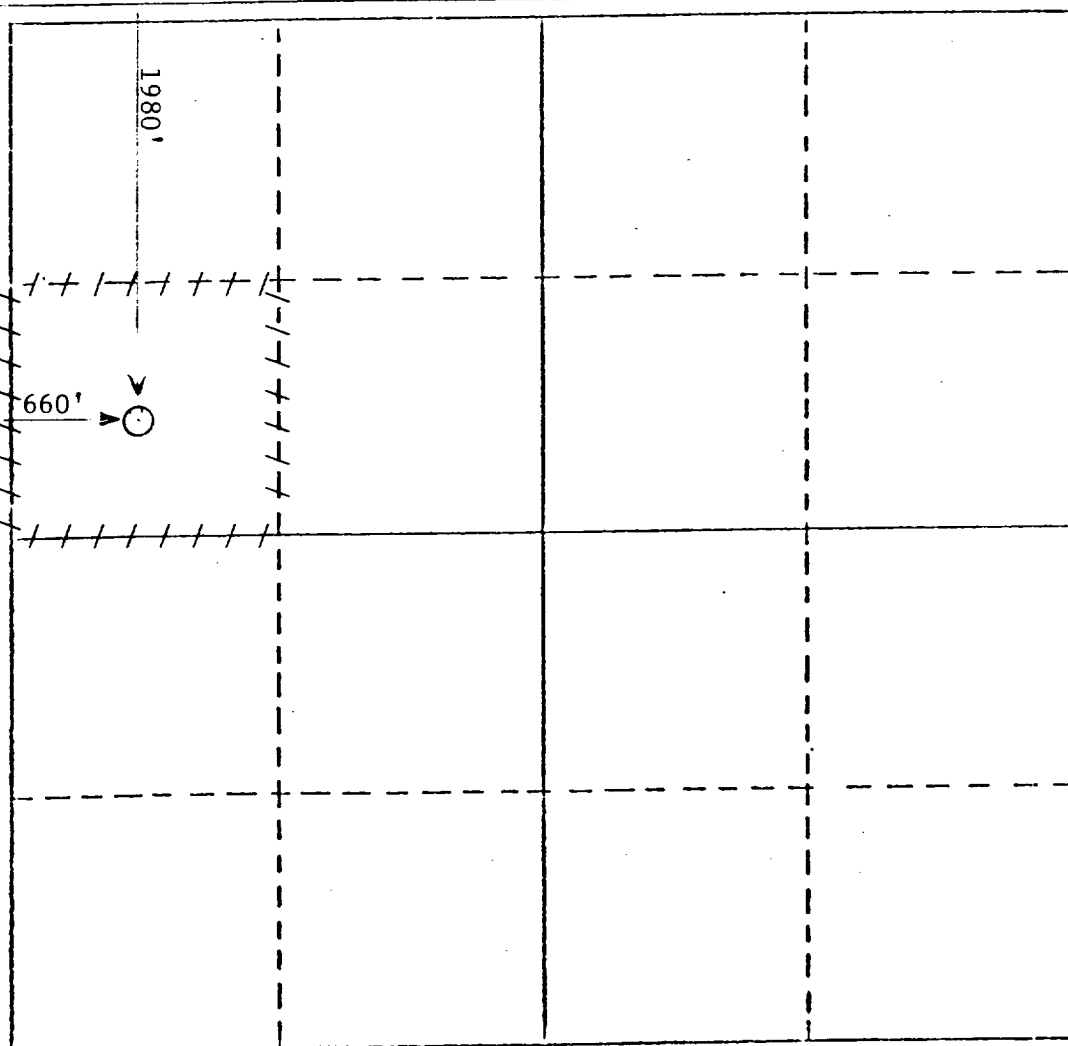
Operator <b>ARCO Oil and Gas Company</b> <b>Division of Atlantic Richfield Co.</b>			Lease <b>Lea 946 State</b>		Well No. <b>1</b>
Unit Letter <b>E</b>	Section <b>2</b>	Township <b>18S</b>	Range <b>35E</b>	County <b>Lea</b>	
Actual Footage Location of Well:					
<b>1980</b> feet from the <b>North</b> line and		<b>660</b> feet from the <b>West</b> line			
Ground Level Elev. <b>3902' GR</b>	Producing Formation <b>Queen</b>		Pool <b>Buckeye</b>	Dedicated Acreage: <b>40</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 Division.



## CERTIFICATION

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

Name  
*Elizabeth L. Bush*  
Position  
**Drlg. Engr.**  
Company **ARCO Oil and Gas Co.**  
**Div of Atlantic Richfield Co.**  
Date  
**11/2/84**

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  
  
Registered Professional Engineer  
and/or Land Surveyor

Certificate No.

