

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# 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 type="checkbox"/>		7. UNIT AGREEMENT NAME Empire Abo Pressure Maintenance Project	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. FARM OR LEASE NAME Empire Abo Unit "K"	
2. NAME OF OPERATOR Atlantic Richfield Company ✓		9. WELL NO. 193	
3. ADDRESS OF OPERATOR P. O. Box 1710, Hobbs, New Mexico 88240		10. FIELD AND POOL, OR WILDCAT ✓ Empire Abo	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 2490' FSL & 2200' FEL (Unit letter J) At proposed prod. zone as above		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1-18S-27E	
5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx 9 miles east of Artesia, New Mexico		12. COUNTY OR PARISH Eddy	
6. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) See Form C-102		13. STATE NM.	
16. NO. OF ACRES IN LEASE		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. 6225'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3642.7' GR		22. APPROX. DATE WORK WILL START* 7/29/78	

### PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8" OD	24# K-55	1000'	400 sx
7-7/8"	5-1/2" OD	15.5# K-55	6225'	1200 sx

Propose to drill an infill development well within the Empire Abo Unit area to more economically recover additional oil reserves and conserve reservoir pressure in accordance w/Unit OCC Rules & Regulations.

Blowout Preventer Program attached.

re reservoir pressure

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JUL 5 1978  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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 Ed Roy Knott TITLE Dist. Drlg. Supt. DATE 6/30/78

(This space for Federal or State office use)

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

**\*See Instructions On Reverse Side**

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes all previous plats of the same name.

All distances must be from the outer boundaries of the Section

Operator <b>Atlantic Richfield Co.</b>		Lease <b>Empire Abo Unit</b>		Well No. <b>193</b>	
Section Letter <b>J</b>	Section <b>1</b>	Range <b>18 South</b>	Meridian <b>27 East</b>	County <b>Eddy</b>	
North Boundary Location of Well <b>2490</b>		Line and <b>South</b>		East <b>2200</b>	
Ground Level Elev <b>3642.7</b>	Producing Formation <b>Abo Reef</b>	Pool <b>Empire Abo</b>	Well Head Acreage <b>40</b>		

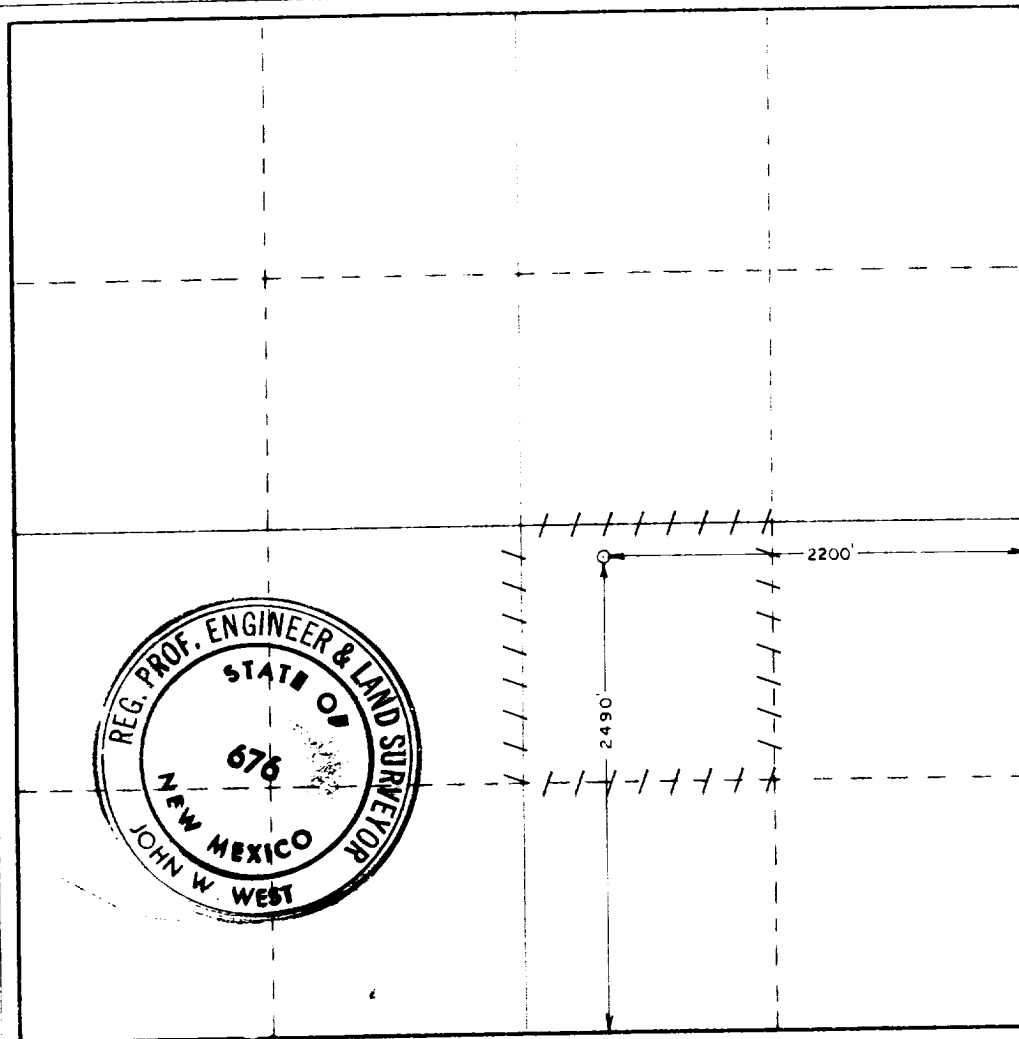
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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 Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated (on the 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.

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U.S. GEOLOGICAL SURVEY  
ALBUQUERQUE, NEW MEXICO  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.



Name John W. West  
Position Dist Dirg Supt  
Company Atlantic Richfield Company  
Date 6/30/78

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 June 27, 1978  
Registered Professional Engineer and Land Surveyor

John W. West

Certificate No. John W. West **676**  
Ronald J. Eidson **3239**

33 660 90 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600



# United States Department of the Interior

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GEOLOGICAL SURVEY  
P. O. Drawer U  
Artesia, New Mexico 88210

August 10, 1978

Atlantic Richfield Company  
P. O. Box 1710  
Hobbs, New Mexico 88240

Atlantic Richfield Company Empire Abo Unit Well No. 193 2490 FSL 2200 FEL Sec. 1, T18S, R27E Eddy County Lease No. NM-016788
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Above Date Required on Well Sign
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Gentlemen:

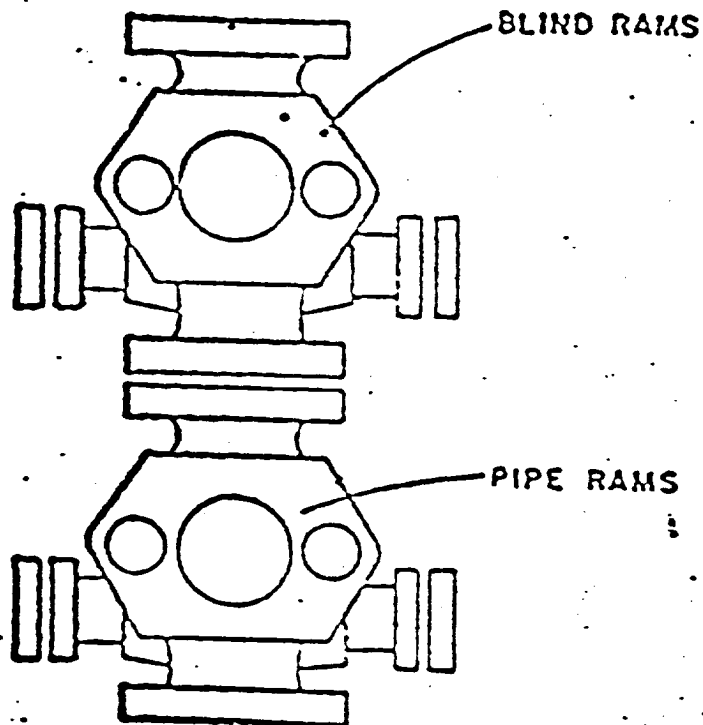
Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 6,225 feet to test the Abo Formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and his approval including the GENERAL REQUIREMENTS.
3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
4. All above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate sandstone brown (Federal Standard Color #595A, color 20318 or 30318).

Sincerely yours,

(Orig. Sgd.) ALBERT R. STALL

Albert R. Stall  
Acting District Engineer



ATLANTIC RICHFIELD COMPANY  
Blow Out Preventer Program

Lease Name Empire Abo Unit "K" #193

Well No. 193

Location 2490' FSL & 2200' FEL  
Sec 1-18S-27E, Eddy County

BOP to be tested before 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.