Form 9-331 C (Με.γ 1963)		N. M. O. C. TED STATES T OF THE INT	· (t	MIT IN TRE ther instru reverse suc	IS OB	Form approved Budget Bureau 30 - 0.15 - 2.	No. 42-R1425. 2096
						5. LEASE DESIGNATION	AND SEBIAL NO.
GEOLOGICAL SURVEY					NM 0557371		
APPLICATIO	N FOR PERMIT	TO DRILL, DE	EPEN, OR	PLUG BA	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK	ILL X	DEEPEN 🗌	P	LUG BACI	< □	7. UNIT AGREEMENT NA Empire Abo Pr	
b. TYPE OF WELL						•	
	AS OTHER		SINGLE X	MULTIPLI ZONE	۰ 🗋 👘	Maintenance P 8. FARM OR LEASE NAM	
2. NAME OF OPERATOR						Empire Abo Un	it "K"
Atlantic Ric	hfield Company					9. WELL NO.	
3. ADDRESS OF OPERATOR			REC	E		183	
Box 1710, Ho	bbs, New Mexico	88240	REC	LIVE	D	10. FIELD AND POOL, OF	R WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance with any State_requirements.*)						√Empire Abo	
At surface 2370' FSL & 1510' FWL (Unit letter K) APR 7 1977						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zo:	ae		_	•			
Same	as above		<u> </u>			1-18S-27E	
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POST O	FFICEARTESIA,	DFFICE		12. COUNTY OR PARISH	13. STATE
Approx 13 mi	les East of Art	esia, New Mex	ico			Eddy	N.M.
15. DISTANCE FROM PROP LOCATION TO NEARES		1				OF ACRES ASSIGNED THIS WELL	
PROPERTY OR LEASE LINE, FT. (Also to nearest drlg, unit line, if any)						40	
18. DISTANCE FROM PROPOSED LOCATION* 19			9. PROPOSED DEPT	н	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DRULING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			6200'		Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)					22. APPROX. DATE WOI	RE WILL START*	
3694' GR							
23.		PROPOSED CASING	AND CEMENTI	NG PROGRAM	4		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING	DEPTH	QUANTITY OF CEMENT		
11"	8-5/8" OD	24≠ K-55	1000	1	350 sx Circ to surface		
7-7/8"	5-1/2" OD	14 & 15.5= K	-55 6300	1		x Circ to surf	

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

1725 sx Circ to surface

Blowout Preventer Program attached.

NSL 809 11-12-76

RECEIVED JAN 27 1977 U. S. GEOLUGICAL 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.

(This space for Federal or State office use)	
PERMIT NO APPROVAL PARE DECLARED WATER BASIN	
APPROVEDURY DECLARED TITLE DATE UE	
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ARE NO ARE NO ARE NO ARE NO EXPIRES *See Instructions On Reverse Side NOTIFY USES IN SUPFICIENT TIME T NOTIFY USES IN SUPFICIENT TIME T WITHERS CONCUTING THE	S CASING

N MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form (* -1 *) Supervedes 4.-128 Effective 1-1-68

		All distances must be from			
ATLANTIC	RICHFIELD CO	MPANY	Empire Al		183
That Letter	Section 1	Township 18 South	Range 27 East	Eddy	
Actual Foctage Loc					
2370	feet from the	south line and	1510 *	et from the West	line
Ground Level Elev.	and the second se		iol		edicated Activity;
3694.0					A 10%
1. Outline th	e acreage dedic	ated to the subject well	by colored pencil	or hachure marks on the	plat below.
interest a	nd royalty).	dedicated to the well, o		<u>نې</u>	N .
3. If more the dated by c	an one lease of communitization,	different ownership is ded unitization, force-pooling. Inswer is "yes!" type of c owners and tract descrip	licated to the well, etc?	have the interest of a	in the consuli-
Yes	No If	nswer is "yes," type of c	onsolidation	ELEXTIME A, N. Ca.	197
If answer	is "no." list the	owners and tract descrip	tions which have a	ctually been constitution	b Use reverse side of
this form i	f necessary.)			"Ex	TVD
No allowat	ole will be assign	ed to the well until all in)or until a non-standard u			
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1510'-		3	1		tily that the well location
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				knowledge an	d belief .
	-7777				
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ATLANTIC RICHFIELD COMPANY Blow Out Preventer Program

Lease 'Name Empire Abo Unit "K"

Well No	183
Location_	2370' FSL & 1510' FWL
	Sec 1-18S-27E, Eddy County, N.M.

•

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. To Supplement USGS Form 9-331-C, "Application for Permit to Drill, Deepen or Plugback" the following additional information is submitted:

Operator:Atlantic Richfield CompanyLease & Well No:Empire Abo Unit "K" #183Location:Unit letter K, 2370' FSL & 1510' FWLSection 1-18S-27E, Eddy County, New Mexico

1. See Form 9-331C

2. See Form 9-331C

3. The geologic name of the surface formation is:

Tertiary with some Triassic exposed.

- 4. See Form 9-331C
- 5. See Form 9-331C

6. The estimated tops of important geologic markers are:

Queen 1128', San Andres 2055', Glorieta 3523', Abo 5694'.

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

Santa Rosa Water Formation		<u>+</u> 300'	Brackish
Empire Yates Seven Rivers	-	<u>+</u> 340'	Oil & Gas
Artesia Grayburg Queen SA	-	1128 '	Oil & Gas
Abo		5790'	Oil & Gas

- 8. The proposed casing program including the size, grade and weightper-foot of each string has been indicated on Form 9-331C. All strings of casing will be new.
- 9. See Form 9-331C for amount of cmt. Cl C cmt cont'g 4% gel, $\frac{1}{4}$ # flocele, 6# salt/sk & 2% CaCl will be used for cmtg surface csg. Cl C cmt 50:50 pozmix cont'g 2% gel, .6% CFR-2, 8# salt/sk & 5# gilsonite/sk will be used to cmt lst stage on production string and HLW cmt cont'g 8#/sk salt, followed by Cl C cmt cont'g 8#/sk salt will be used to cmt 2nd stage.
- 10. The pressure control diagram is attached to Form 9-331C. The following additional information of the pressure control equipment is as follows:

Size: 10"-900 Series Dbl Hyd Pipe and Blind Rams

Pressure Ratings (or API Series): 3000# WP, 6000# T

Testing Procedures: Pressure up to 1500# PSIG before drilling out of casing

Testing Frequency: Upon installation, daily and on all trips.

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Empire Abo Unit "K" #183 Page 2

11. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained will be as follows:

0-1000' Spud mud; 1000-5575' brackish water; 5575-6300' SWG 34-38 Vis, 5-8 WL, 30,000 PPM Salinity.

12. The auxiliary equipment to be used will consist of:

Kelly cocks and a sub on floor with full opening valve to be used when needed. No mud logging to be performed.

13. The testing, logging and coring programs will be:

GR-DLL w/RXO (MSFL) & Caliper, GR-Calibrated Neutron, CNL-FDC, Sonic and Tape logs for Coriband Analysis. Will run straddle tests on Abo after logging to locate Gas-Oil contact. No coring will be performed.

- 14. No abnormal pressures or temperatures are expected to be encountered.
- 15. The starting date will be approx 3/15/77 and will be completed approx 3/30/77.

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Multi-Point Surface Use and Operations Plan

Atlantic Richfield Company Well No. "K" 183 Empire Abo Unit 2370' FSL & 1510' FWL Sec 1-T18S-R27E Eddy County, New Mexico Lease, New Mexico 0557371 (Development Well)

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This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. Existing Roads:

- A. Exhibit "A" From Artesia, N.M. go East 9 miles on U.S. Highway 82, turn right off Highway 82 on black top road (Amoco Gasoline Plant Road). Go Southeast on black top road approximately 2.7 miles, then turn west on existing dirt road approximately 1.2 miles, turn south .3 miles, turn west .2 miles, then northeast to location.
- B. Exhibit "B" is a plat showing all existing roads within a one mile radius of the well site and the planned access road.
- 2. Planned Access Roads:
 - A. Length & Width: New road required will be 12 feet wide and 880' long. This new road is labeled and color coded red on Exhibit "B". The center line of the proposed new road from beginning to the wellsite, has been staked and flagged with the stakes being visible from any one to the next.
 - B. Turnouts: none
 - C. Culverts: no culverts. Will use low water crossing.
 - D. Cuts and Fills: Approximately 4' cut on north side of location. Minimum fill on south side of location.
 - E. Gates, Cattleguards: none
- 3. Location of Existing Wells:
 - A. See Exhibit "B" for existing wells within a 1 mile radius of location.

Well No. "K" 33 Empire Abo Unit Eddy County, New Mexico Page 2

4. Location of Existing and/or Proposed Facilities:

- A. Location of the existing tank battery and flow lines from well no. "K" 183 are shown on Exhibit "C". The gas injection and salt water disposal lines are buried. The flow lines are not buried.
- B. When the proposed well is completed for production, the location of the new flow line to the existing battery is shown on Exhibit "C". The line will not be buried. The proposed flow line has not been staked and flagged.
- 5. Location and Type of Water Supply:
 - A. Water for drilling will be used from a fresh water well within the Empire Abo Unit boundaries located in Section 6-18S-28E and transported by pipeline to wellsite. The water line will not cause additional surface disturbance and will be removed after drilling is completed.
- 6. Source of Construction Materials:
 - A. Johnson Construction Company, P. O. Box 837, Eunice, New Mexico, will be furnishing caliche for surfacing the road and the well pad. The source of caliche will be from an existing pit located in SW/4 SE/4 Sec 1-18S-27E and any royalty payments will be made by the construction company.
- 7. Methods of Handling Waste Disposal:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - .B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - E. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "D".
 - F. All trash and debris will be buried or removed from the wellsite within 30 days after drilling or completion operations.

Well No. "K" 183 Empire Abo Unit Eddy County, New Mexico Page 3

8. Ancillary Facilities: none

- 9. Wellsite Layout:
 - A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits, reserve pit and location of major rig components.
 - B. Only minor levelling of the wellsite will be required. No significant cuts and fills will be necessary. Other than a 4' cut on north side of location and a minimum fill on south side of location.
 - C. The reserve pit will be plastic lined.
 - D. The pad and pit area has been staked and flagged.
- 10. Plans for Restoration of the Surface:
 - A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing a condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. On Federal surface after abandonment, any special rehabilitation and/or revegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible. All pits to be abandoned within 90 days.
- 11. Other information:

A. Topography: rolling hills

- B. Soil: Caliche & sand
- C. Flora and Fauna: Flora consists of cockle-burs, needle grass, rag weeds, grease bush and cat claw and native grass. Fauna consists of coyotes, jack rabbits, cotton tails, kangaroo mice, hawks, quail, dove, field lark and rattle snakes.
- D. Ponds and Streams: none
- E. Residences and Other Structures: none
- F. Land Use: Oil and gas production, grazing and hunting in season.

Well No. "K" 183 Empire Abo Unit Eddy County, New Mexico Page 4

G. Surface Ownership: BLM

12. Operator's Representative:

The field representative responsible for assuring compliance with the approved surface use and operations plan are as follows:

Name: Jack D. Jones Address: P. O. Box 1710, Hobbs, New Mexico 88240

Office Phone: (505) 393-7163 Home Phone: (505) 392-5268

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Atlantic Richfield Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

1/25/77 Date

- Int

J. D. Jones District Drilling Supt.

