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Ne: DEL	DEPARTMEN	50 - 0/5 - 22835						
• GEOLOGICAL SURVEY						LC-067858 Capito ×		
	n for permit	TO DRILL,	DEEPE	N, OR PLUG	BACK	6. IF INDIAN, ALLOT	TEE OF TRIES NAME	
							NAME Pressure	
. TIPE OF WELL			81		IPLE	Maintenance 8. FARM OR LEASE	Project	
	VELL OTHER		2	FECE 124	ED	Empire Abo U		
	hfield Company				• •	9. WELL NO.		
ADDRESS OF OPERATOR	in return bompuny	<u> </u>		FEB 1 4 197	<u>'9</u>	133		
P. O. Box 17	10, Hobbs, New	Mexico 882	40		· ·	10. FIELD AND POOL	, OR WILDCAT	
At surface	Report location clearly as			tate requements.C.		Empire Abo	D DT I7	
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,	AND DIBECTION FROM NE	CABEST TOWN OR PO	ST OFFIC	6*		12. COUNTY OR PARI	SH 13. STATE	
	es east of Art	esia, New M				Eddy	N.M.	
. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	ST		16. NO	O. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL 40		
5. DISTANCE FROM PRO TO NEAREST WELL,	POSED LOCATION* DRILLING, COMPLETED,		1	6225	20. ROT.	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH						Rotary	WORK WILL START*	
3557' GR	hether DF, RT, GR, etc.)				• •	2/1/79		
•		PROPOSED CAS	ING ANI	CEMENTING PROG	RAM	- · ·		
SIZE OF ROLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTING DEPTH		QUANTITY OF CE		
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7-7/8"	OD	<u>15.5# K-5</u>	5	6225'	142	5 sx, circ to	surr	
more economi Authority to NSL-999.	lrill a develop ically recover o drill above n venter Program	remaining r Ion-standard	eserv	es.			ative Order	
ABOVE SPACE DESCRIPTIONS IN THE SPACE DESCRIPTIONS IN THE SPACE DESCRIPTION OF THE SPACE DESCRIP	BE PROFOSED PROGRAM : 1 b drill or deepen directle ny.	onally, give pertine	ent data (	plug back, give data on on subsurface locations Dist. Drlg. S	and measur	ed and true vertical d	bosed new productive epths. Give blowout	
(This space for Fed	leral or State office use)						· · ·	
PERMIT NO.				APPBOVAL DATE				
APPROVED BY			TITLE			DATE		
CONDITIONS OF APPRO	JVAL, IF ANY :						n an Carlos dan Tanàna Mangana Tanàna Mangana	

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\*See Instructions On Reverse Side

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**Report** 



United States Department of the Interior

GEOLOGICAL SURVEY FEB 1 4 1979

P. O. Drawer U Artesia, Néw Mexico 88210

O. C. C. ARTESIA, DEFICE

FEB 1 2 1979

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

ATLANTIC	RICHFIELD COMPANY
Empire Abo	Unit "M" Well No. 133
450 FNL 1175	FWL Sec. 11, T18S, R27E
Eddy County	Lease No. LC-067858
Above Data	Required on Well Sign

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 this approval including the GENERAL RE-QUIREMENTS.
- 3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should identify the well.
- 4. All permanent 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

## NEMALL JCATION AND ACREAGE DEDICATION

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

	antic Richf	ield Co	L.eas	-	re Abo Uni	+ # NA	Well No. 133
	Section	Township	<b>I</b>	Emp11 Hange	re Abo Uni	I	155
D	11	18 S	outh	27 East		Eddy	-
al Footage Lucat		North		1175		West	
nd Level Elev	feet from the Producing		line and Pool	,	teet from the	·····	ine rated Acreage;
3557.0	Abo R	leef	Emp	ire Abo	·····		40 Actr
interest and 3. If more than	royalty).	f different ov ner		oted to the we	ll have the	R	of (both as to workin
X     Yes     [       If answer is     this form if       No allowable	e will be assi	f answer is "yes ne owners and tr gned to the well	until all inter	ests have bee	n consolidat	ed (by communi	
F <del>-                                    </del>	1					CE	RTIFICATION
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H75'		4 70' <b>-</b>		5 1 1		toined herein i	, that the information cor s true and complete to th wledge and belief.
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	1			, . ,			ichfield Compan
				   		1/17/79	
						shown on this notes of actua under my super	fy that the well locatio alat was plotted from fiel I surveys made by me o vision, and that the sam orrect to the best of m belief.
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		TL-6.					•
Lea	rator: se & Well No: ation:	Atlantic Richf Empire Abo Uni Unit Letter D Section 11-18S Lease, New Mex Development we	t "M" #133 -27E, Eddy <b>(</b> kico LC-06785		e]]		•
1.	See Well Loca	tion and Acreag	e Dedication	Plat Form C-	102.	•	
2.	See Form 9-33	IC for elevatio	on above sea l	evel of unpr	epared lo	cation.	
́ - <b>3.</b>		name of the sur gall association		in is:			
4.	The type of d will be: Rot	rilling tools a ary.	and associated	l equipment t	o be util	ized	
5.	The proposed	drilling depth	will be 622	5'			-
6.	The estimated Empire Yates 7 Artesia Queen Abo Reef		:ant geologic + 360' ∓1798' ∓5968'	markers are:			
7.		7Rivers Queen	-		•	ther	
8.	foot of each	casing program string has been 1 be New <u>x</u>	n indicated or				ι
9.	The surface ca	BlC for amount ( asing will be ce by Cl C cmt cor	emented to sur	face w/Cl H R	eg-Fill cr	nt cont'g 2	2%
	Wash, 10 BFW, sk for 1st sta	n casing will be 250 sx Lite wt age. 2nd stage nt cont'g 8# sal	cmt cont'g 10 will be cmtd	# 20/40 sd, 5 w/10 BFW, 950	# 100 mest	n sd & 5# (	Gilsonite/
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10.	The pressure contr diagram is attached to Form [31C. The following additional information of the pressure control equipment is as follows: 8-5/8" OD Csg: Size: 10" 600 series Pressure Ratings: 3000# WP, 6000# T Testing Procedure: Pressure up to 1500# before drilling out of casing. Testing Frequency: Upon installation, daily and on all trips.
	<u>5-1/2" OD</u> Csg: Size: 6" 900 series
•	<pre>Pressure Ratings: 3000# WP, 6000# T Testing Procedures: Pressure up to 1500# before drilling out of casing. Testing Frequency: Upon installation, daily and on all trips.</pre>
<b>'n</b> .	The type and characteristics of the proposed circulating medium or <b>mediums</b> to be employed for rotary drilling and the quantities and <b>types of mud and weighting material to be maintained will be as</b> follows:
	". 0 - 1000' Spud Mud 1000 - 5875' Fresh brackish water 5875 - 6225' Salt gel mud 8.8#/gal, 30,000-40,000 salinity, 10 WL.
•	
	•
12.	The testing, logging and coring programs will be: <u>Drill Stem Test</u> <u>Logs</u> <u>Coring</u>
	None GR-DLL w/RXO None

13. There are no abnormal pressures or temperatures expected to be encountered.

GR-CNL/FDC

The anticipated starting date will be 2/1/79 and completed approx 2/20/79. 14.

15. The auxiliary equipment to be used will consist of: Kelly cocks & a sub on floor w/full opening valve to be used when needed. No mud logging will **be** performed.

lling Supt. fulti-Point Surface Use and Operations Plan

Atlantic Richfield Company Nell No. "M" 133 - Empire Abo Unit Section 11-18S-27E ddy County, New Mexico Lease, New Mexico LC-067858 Development Well

JAN 19 1979 ANTESIA, NEW MEXICO Dove d

А.

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" is a portion of a map with highways showing the location of the proposed well as staked. From Artesia go 9 mi east on U.S. Hwy 82, turn south df hwy 82 on AMOCO Gasoline plant blacktop road 2.9 mi, continue south on existing caliche road .9 mi, turn east on existing caliche road .1 mi, location is north approx 175' & is staked & flagged.

B. Exhibit "B" is a plat showing all existing roads within a one mile radius of the wellsite and the planned access road.

2. Planned Access Roads:

- A. New road will be 12' wide and 175' long. This new road is labeled on Exhibit "B" color coded brown. The proposed new road has been staked from the beginning to the wellsite.
- B. Turnouts: None

C. Culverts: None

D. Cuts & fills: Approx 1' cut on south east side and 1' fill on northwest side of location.

E. Gates, Cattleguards:

3. Location of Existing wells:

A. Existing wells within a one mile radius are shown on Exhibit "B".

4. Location of Existing and/or Proposed Facilities:

A. Location of the existing tank battery and flowlines are shown on Exhibit "C". The gas injection and salt water disposal lines are buried. The flow lines are not buried.

Eddy County, N.M. Page 2

- 5. Location & Type of Water Supply:
  - A. Water for drilling will be used from a brackish water well within the Empire Abo Unit area located in Sec 6-1°C-29E and transported by pipeline to wellsite. The water line will be temporary, will not cause surface damage and will be removed soon after drilling is completed.
- 6. Source of Construction Materials:
  - A. Road and well pad construction materials will be furnished by a contractor. Any caliche permits or royalties to be paid will be responsibility of Contractor. Contractor source of caliche will be from an existing pit located in SE/4, NW/4 Sec 12-13S-27, Eddy County, N.M.

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. Ourrent laws & 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 pits is shown on Exhibit "D".
  - F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. Ancillary Facilities: none

9. Wellsite Layout:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit & location of major rig components.
- B. Only minor levelling of the wellsite will be required. No significant cuts will be necessary.
  - C. The reserve pit will be plastic lined.

D. The pad and pit area has been staked and flagged.

Well No. I HIST EMPIRE ADD UNIT Eddy County, New Mexico Page 3

## 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.** After abandonment of the well, surface restoration will be in accordance with the BLM and accomplished as expeditiously as possible.

11. Other Information:

- A. Topography: Land surface is rolling hills.
- B. Soil: Soil is a sandy clay loam and caliche.
- C. Flora & Fauna: The vegetative cover is generally cockle burs, needle grass, rag weeds, grease bush, cat claw, native grasses. The fauna consists of coyotes, jack rabbits, cotton tails, skunks, rattlesnakes, rodents, hawks, quail, dove and song birds.

D. Ponds & Streams: None

E. Residences and other structures: None

F. Land Use: Grazing and hunting in season. Oil & gas production

G. Surface Ownership: Wellsite is on BLM surface.

12. Operator's Representative:

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

Name:	LeRoy D. Lane	
Address:	Box 1710, Hobbs,	New Mexico 88240

Office Phone:	(505) 39	3-7163
Home Phone:	(505) 39	3-7972

Eddý County, New Mexico Page 4

## 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.

1-18-79 Date

District Drilling Supt.



## ATLANTIC RICHFIELD COMPANY Blow Out Preventer Program

Lease 'Name EmpireAbo Unit "M"

Well No. 133

Location	.450'	FNL &	1175	FWL	•
	Sec 2	11-185	-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.

Barrister. 2