- Form 9-331 C (May 1963)	·~ •	N. M. O. C	. C. COP	SUBMIT IN TP		Form app Budget Bu	ored. reau No. 42-R1425.
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	GEOLOGICAL SURVEY					LC 065478-	
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b. TYPE OF WELL OIL WELL	GAS WELL OTHER		SINGLE ZONE	Z MULTIPI ZONE		Maintenance S. FARM OR LEASE	
2. NAME OF OPERATOR		· · · · · · · · · · · · · · · · · · ·				Empire Abo	Unit "M"
Atlantic R: 3. Address of Operation	ichfield Company					9. WELL NO. 122	
4. LOCATION OF WELL	Hobbs, New Mexico (Report location clearly and	in accordance wit	RECE th any State requ			10. FIELD AND POO $\checkmark$ Empire Abc	)
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NI MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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ATLANTIC RI	CHFIELD CO		Empire Abo	Unit "M"	122
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# ATLANTIC RICHFIELD COMPANY Blow Out Preventer Program

Lease 'Name Empire Abo Unit "M"

Well No. 122

Location	9.90	FNL &	1300	FEL		
	Sec	10-105-	-27E.	Eddy	County	فسندر يتتباسين

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

Atlantic Richfield Company Operator: Lease & Well No: Empire Abo Unit "M" #122 Unit letter A, 990' FNL & 1300' FEL Location: Section 10-18S-27E, Eddy County, New Mexico

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- 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 924', San Andres 1851', Glorieta 3319', Abo 5790'

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formation 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	-	924 '	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. C1 C cmt 50:50 pozmix cont'g 2% gel, .6% CFR-2, 8# salt/sk & 5# gilsonite/sk will be used to cmt 1st 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 & 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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ARTESIA, NEW MEXICO

Empire Abo Unit "M" #122 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, 1000-5690' brackish water, 5690-6200' 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 being 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. No coring or DST will be conducted.

- 14. No abnormal pressures or temperatures are expected to be encountered.
- 15. The starting date will be approx 2/15/77 and will be completed approx 3/1/77.

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Multi-Point Surface Use and Operations Plan

Atlantic Richfield Company Well No. "M" 122 Empire Abo Unit 990' FNL & 1300' FEL Sec 10-T18S-R27E Eddy County, New Mexico Lease, New Mexico LC 065478B (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, go east 9 miles on U. S. Highway 82 then turn south off Highway 82 on Amoco Gasoline Plant black top road 2.5 miles, continue southerly off black top onto caliche existing road .7 miles. turn west .2 miles, then south approximately 100' along staked and flagged proposed new road to location.
- 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. Length & Width: New road required will be approximately 100' long and 12' wide. This 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 visible from any one to the next.
  - B. Turnouts: none
  - C. Culverts: None a low water crossing will exist at beginning of proposed new road.
  - D. Cuts and Fills: Minimal to level drill pad

E. Gates, Cattleguards: None

- 3. Location of Existing Wells:
  - A. See Exhibit "B" for existing wells within a one mile radius of location.

Well No. "M" 122 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. M-122 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.
- . 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 6-185-28E 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, Box 837. Eunice. New Mexico, will be furnishing caliche for surfacium the road and well pad. The source of caliche will be from an existing pit located in SE/4 NW/4 Section 12-18S-27E, Eddy County and royalty fees will be paid by the construction company.
- 7. Methods of Mandling 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, wastepaper, garbage and junk will be covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
  - F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion.

Well No. "M" 122 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.
  - 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 and sand
  - C. Flora & Fauna: Flora consists of cockle burs, needle grass, rag weed, grease bush, cat claw and native grasses. Fauna consists of coyotes, jack rabbits, dove. field larks and rattleanakes.
  - D. Ponds & Streams: none
  - E. Residences and other structures: none
  - F. Land Use: Oil & gas production, grazing and hunting in season.
  - G. Surface Ownership: BLM

Well No. "M" 122 Empire Abo Unit Eddy County, New Mexico Page 4

# 12. Operator's Representative:

The field representatives 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, 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.

J. D. Jones District Drilling Supt.

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