Form \$160-3 (November 1983) (formerly 9-331C)

NM OIL COMS. COMMISSION IN

Form approved.

Budget Bureau No. 1004-0136

Expires August 31, 1985

(Other instructions on reverse side)

AVON ENERGY CORPORATION AVON ENERGY CORPORATION ADDRESS OF OFFERATOR 415 W. Wall, Ste. 1810 Middand, Texas 79701 Locardow or well (Report location clearly and in secondance with any State requirements.) At surface 1305 FSL 1350 FWL Sec. 20-178-31E A proposed prod. sone Same Same Same Same 14. Distance find minuse and perfection rison nearest town or root office. 5.1 air miles east of Loco Hills, N.M. ARIL		5. LEASE DESIGNATION	5. LEASE DESIGNATION AND SERIAL NO.						
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12-1/4" 8-5/8" 24.0# J-55 600'± 300 sx Class C (Girculate) 7-7/8" 5-1/2" 15.5# K-55 3500'± 200 sx Class C + 600 sx Lite Port TD-/ 12-28-50 Number 4 / 12-28-50 Propose to drill to about 3500' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate all porosity zones. Selectively perforate favorable Grayburg zones. Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks. See attached Drilling data and Surface Use Plan. The surface grazing lessee has been advised of the proposed operation. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive reventer program, if any. (This space for Federal or Sfate office use) PERRY W LONG (This space for Federal or Sfate office use) PERRY W LONG APPROVAL DATE APPROVAL DATE			PROPOSED CASI	NG ANI	CEMENTING PROGRAM	1			
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APPROVED BY TITLE CARLSBAD RESOURCE AREA DATE 1220 90		ral or State office use)						 	
CONDITIONS OF APPROVAL, IF ANY:	APPROVED BY		-	•	MEA MANAGERIA MARLSBAD RESOURCE AREA		DATE 123	190	

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

*See Instructions On Reverse Side

Tillactios.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

DISTRICT | P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator			· · · · · · · · · · · · · · · · · · ·		Lease				Well No.	1
Avon Energy Corporation			•	Turner "B" Federal			9 2			
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3. If more	e than o	ne lease o	different ownersh	ip is dedicated to th	e well, have	e the interest of all e	owners been co	nsolidated by com	munitization	
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SUPPLEMENTAL DRILLING DATA

AVON ENERGY CORPORATION No.92 Turner "B" SESW Sec.20-17S-31E Eddy County, N.M.

LC 029395-B

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

- 1. SURFACE FORMATION: Recent
- 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	600'	Oueen	2550'	
Salt	700'	Grayburg	2950'	
Yates	1500'	San Andres	3350'	
Seven Rivers	1750'		3330	

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Water - Possible groundwater from 0' to 300'

Oil - 2000' to TD

Gas - None anticipated

4. PROPOSED CASING PROGRAM:

- 8-5/8" Casing Set 600' of 24#, J-55, Surface Casing Pressure testing to 1000 psi.
- 5-1/2" Casing Set 3500' of 15.5#, K-55, Production Casing Pressure testing to 1500 psi.
- 5. PRESSURE CONTROL EQUIPMENT: Install a 2M, Series 600, Type
 "E" Shaffer Double Hydraulic BOP on the 8-5/8" surface
 casing prior to drilling into the Queen. Due to depleted
 nature of the reservoir, it is requested that a waiver be
 granted to test pressure control equipment to 1000 psi.
 using rig pump, instead of the normal 2000 psi. test.
 Exhibit D is a diagramatic sketch of the BOP equipment.

- 6. CIRCULATING MEDIUM: Drill with fresh water from surface to setting depth of surface casing. Drill remainder of hole with brine water, using additives to control water loss, viscosity and mud weight.
- 7. AUXILIARY EQUIPMENT: Equipment will include pit level monitor, a full-opening safety valve and a gas detector.
- 8. TESTING, LOGGING AND CORING PROGRAM:

Samples: Samp

Samples will be caught at 10' intervals from

below the surface casing to total depth.

DST and Cores: None anticipated

Logging:

Density-Neutron log

Gamma Ray-Neutron log

Mud Log

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:

No abnormal pressures or temperatures anticipated.

Precautions will be taken to monitor possible traces hydrogen sulfide gas in the Grayburg.

10. ANTICIPATED STARTING DATE: Drilling will commence upon Federal and State approval. Drilling and completion will require about 30 days.

PERTINENT INFORMATION

For

AVON ENERGY CORPORATION No.92 Turner "B" SESW Sec.20-17S-31E Eddy County, N.M.

LOCATED:

5.1 air miles east of

Loco Hills, New Mexico

FEDERAL LEASE NUMBER:

LC 029395-B

LEASE ISSUED:

June 13, 1934 - HBP

ACRES IN LEASE:

1,786.15 Ac.

RECORD LESSEE:

Atantic Richfield Company

BOND COVERAGE:

Statewide Bond of Avon Energy

Corporation pending

AUTHORITY TO OPERATE:

Assignment of Operating Rights

SURFACE OWNERSHIP:

Federal

GRAZING PERMITTEE:

Williams & Son Cattle Co.

Box 30

Maljamar, New Mexico 88264

Phone 505-676-2293

POOL RULES:

General Oil Rules - 40 Ac. Spacing

EXHIBITS:

A. Lease and Contour Map

B. Road and Well Map

C. Rig Layout

D. BOP Diagram

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

AVON ENERGY CORPORATION No.92 Turner "B" SESW Sec.20-17S-31E Eddy County, N.M.

LC 029395-B

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 road map showing the location of the proposed well as staked. The well is approximately 5.1 miles east of Loco Hills, New Mexico.
- B. <u>Directions</u>: Go east from Loco Hills, N.M. on U.S. 82 a distance of 5.1 miles. Go south on lease road for 500' to drillsite.

2. PLANNED ACCESS ROAD:

- A. <u>Length and Width</u>: Not necessary. Existing lease road is adjacent to west side of drill pad.
- B. Gates, Cattle Guards: None necessary

3. LOCATION OF EXISTING WELLS:

A. See Exhibit B

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Temporary production and storage facilities will be located on the well pad.
- B. An application for permanent flow lines will be filed at a later date, if the well is commercial.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water for drilling and completion will be obtained from a commercial source and trucked over existing roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the pad will be purchased from a Federal pit located in the SESW Sec.20-17S-31E.

Topsoil will be stock piled at the edge of the location for rehabilitation.

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 the pits are dry.
- C. Water produced during test will be disposed of in the drilling pits. Oil produced during test 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 the trash pit is shown on Exhibit "C".
 - 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:

A. None required

9. WELL SITE LAYOUT:

- A. The wellsite, surrounded by a 400' X 400' area has been surveyed and flagged.
- B. Dimensions and relative location of the drill pad and pit are shown on Exhibit C.

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 the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive the disturbed area will be rehabilitated to surface owner requirements and will be accomplished as expeditously as possible.

11. OTHER INFORMATION:

- A. <u>Topography</u>: The wellsite and access road are located in the Querecho Plains. The project area drains to the west toward Cedar Lake Draw. Construction of the drill pad will require leveling and surfacing with caliche.
- B. <u>Soil</u>: The surface soil is fine sand with caliche and chert inclusions.
- C. Flora and Fauna: Vegetation consists of mesquite, sage-brush, yucca, and various weeds and grasses. Ground cover is about 10%. Wildlife in the area is that typical of semi-arid desert land, such as coyotes, rodents, reptiles and birds.
- D. Ponds or Streams: None
- E. Residences and Other Structures: None in this area.
- F. Archaeological, Historical and Other Cultural Sites:
 A review by Archaeological Services Consultants determined that no cultural sites will be endangered.
- G. Land Use: The surface is used for cattle grazing.
- H. Surface Ownership: The drillsite and access road are located on Public surface. The grazing lessee is Williams & Son Cattle Company, Box 30, Maljamar, New Mexico.

12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan:

Mr. Robert Setzler
P.O. Box 38
Loco Hills, New Mexico 88255
Phone 505-677-2360

13. CERTIFICATION:

I hereby certify that I, or person 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; that the work associated with the operations proposed herein will be performed by AVON ENERGY CORPORATION and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

November 17, 1990

Date:

JERRY W. LONG, Permit Agent for: AVON ENERGY CORPORATION

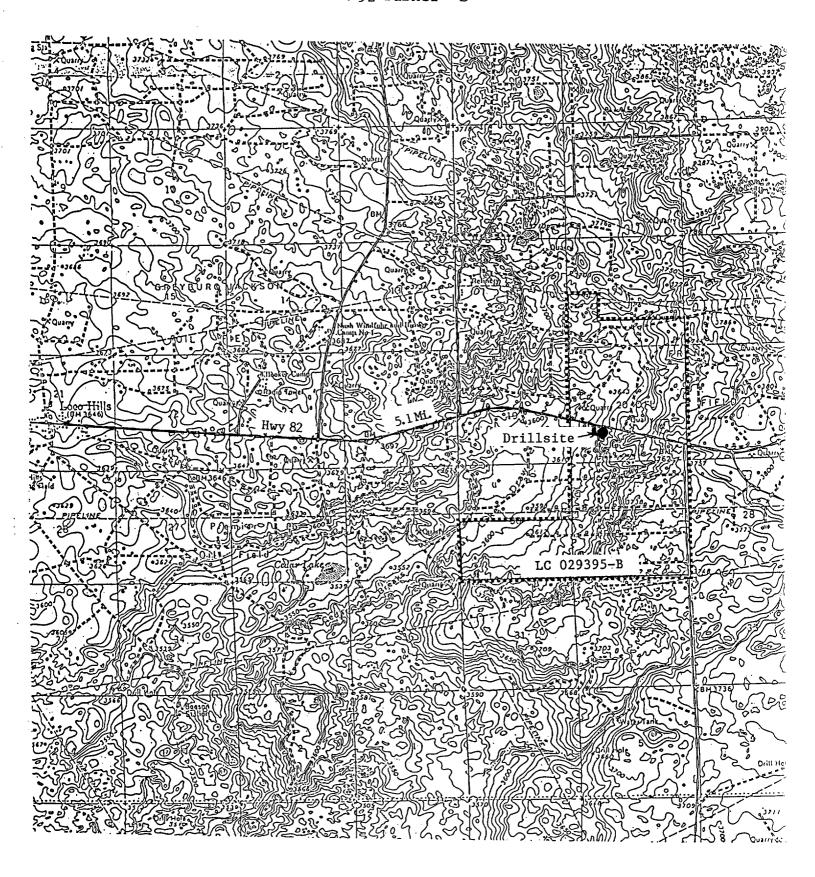
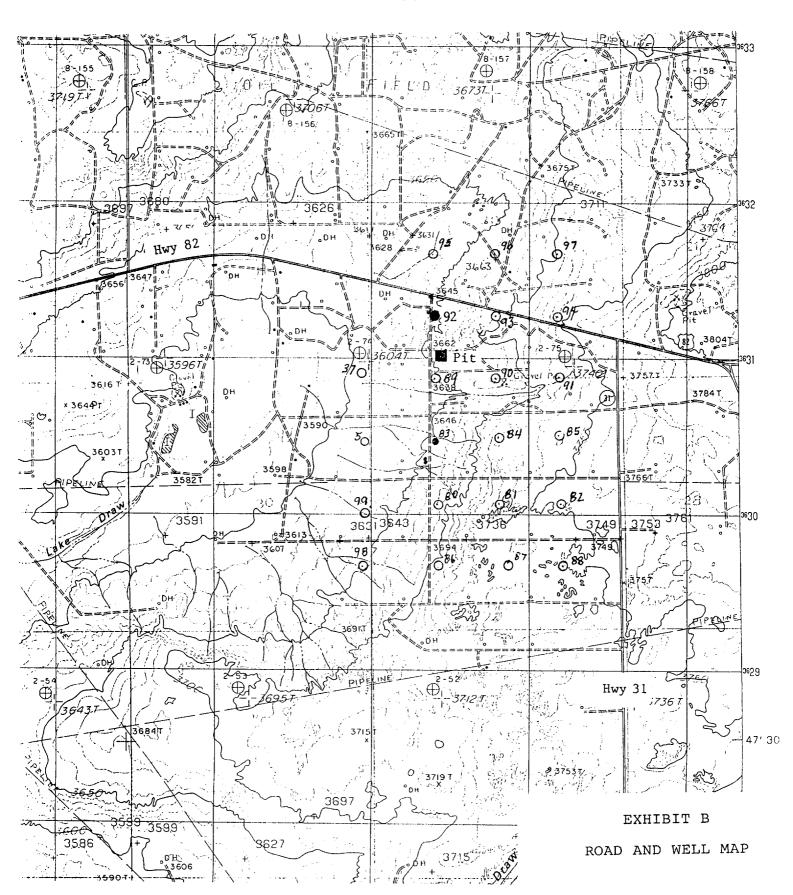


EXHIBIT A
LEASE AND CONTOUR MAP

AVON ENERGY CORPORATION No.92 Turner "B" SESW Sec.20-17S-31E Eddy County, N.M.

LC 029395-B



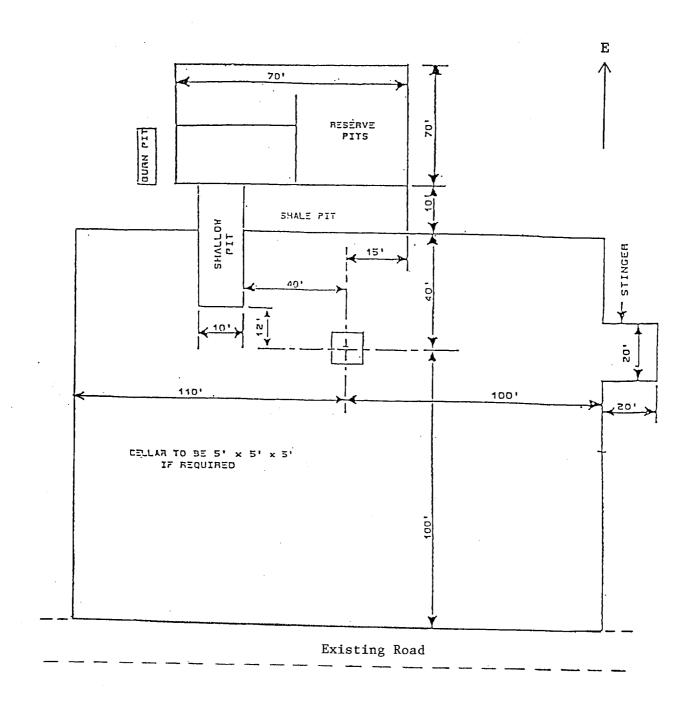
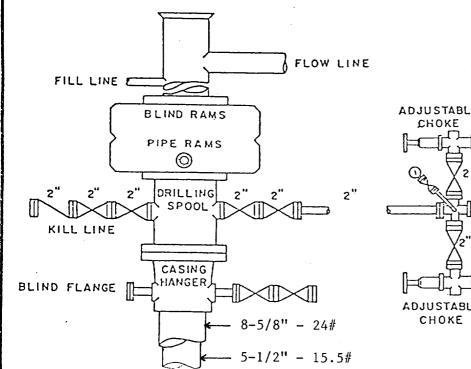
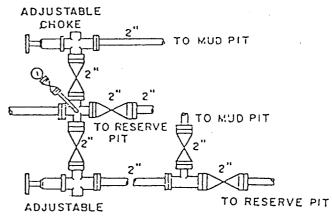


EXHIBIT C
DRILL PAD LAYOUT

AVON ENERGY CORPORATION No.92 Turner "B"





BOP DIAGRAM

2000# Working Pressure Rams Operated Daily