Form 3160-3 (November 1983) (formerly 9-331C)

. Drawer DD Artesia, NN 98210

SUBMIT IN T ICATE* (Other instructions on reverse side)

30-015-26637.

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

Form	approved.	044	70 Q	/
Budg	et Bureau	No. 10	104-0136	5 \
Expir	res August	31, 19	1985	

	DUKLAU	OF LAND MANAG	PEMEN	l I		LC 029395-B			
APPLICATIO	N FOR PERMI	T TO DRILL, I	DEEPE	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME		
. TYPE OF WORK	ILL X	DEEPEN [7	PLUG BA		7. UNIT AGREEMENT N	AME		
. TYPE OF WELL	ILL A	DEEFEIN		PLUG BA					
	VELL OTHER	IN-FILL WELL	81 20	NGLE X MULT	IPLE _	S. FARM OR LEASE NAM	(E		
NAME OF OPERATOR			/	Ph.915-683-54	49	Turner "B"			
100000000000000000000000000000000000000	AVON ENERGY			AFLEN	/EU	9. WELL NO.			
ADDRESS OF OPERATOR	410 W. Wall,			FEB - 7	1001	94 10. FIELD AND POOL, O			
LOCATION OF WELL (I	Midland, Tex Report location clearly	as /9/Ul and in accordance wit	h any S		1331	Grayburg Jac			
At surface				0.0	D	11. SEC., T., R., M., OR I	BLK.		
(Unit 1) At proposed prod. 20	1350, EST 150	00 FEL Sec. 2	20-17	S-31E ARTESIA,	OFFICE	AND SURVEY OR AR	IIA		
	Same					Sec.20-17S-3	31E		
DISTANCE IN MILES	AND DIRECTION FROM	NEAREST TOWN OR POS	r offici			12. COUNTY OR PARISH	13. STATE		
5.5 air mile	s east of Loc	o Hills, N.M.	40			Eddy	N.M.		
LOCATION TO NEARES PROPERTY OR LEASE	T		16. NO	. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL			
(Also to nearest dri	g. unit line, if any)	1200'		786.15 OPOSED DEPTH	40	ANT ON GARLE MOOF			
	ORILLING, COMPLETED,	820 ' ±		500 °		ROTARY OR CABLE TOOLS			
	ether DF, RT, GR, etc.		<u> </u>	500) KOL	22. APPROX. DATE WORK WILL START*			
3743' GL						As Soon As I	Possible		
		PROPOSED CASI	NG AND	CEMENTING PROGR	AM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	oor	SETTING DEPTH	<u> </u>	QUANTITY OF CEMENT			
12-1/4"	8-5/8"	24.0# J	- 55	600'±	300	sx Class C (<u>Circulate</u>)			
7-7/8"	5-1/2"		-55			sx Class C + 60			
Set 5-1/2" isolate al zones. Run 2-7/8" Sand-frac See attach	production c l porosity zo tubing to pe formation and ed <u>Drilling d</u> e grazing les	asing to TD, nes. Selecti rforations an test to tank ata and Surfa see has been	cemer vely d tre s. ce Us advis	sed of the pro	icient orable with 15 posed o	cement to Grayburg % HCL. peration luctive zone and propose	The Control of the Co		
BOVE SPACE DESCRIB	drill or deepen direct	ionally, give pertinent	· uutu o				s. Give blowout		
e. If proposal is to venter program, if an signed (This space for Federal PERMIT NO.	drill or deepen direct	onally, give pertinent	Pe Pe	APPROVAL DATE			er 24,1990		

SPECIAL STIPULATIONS See Instructions On Reverse Side <u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240 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., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

perator Trace	war. Cow	0050+100		Lease	П112	ner "	B" Fed	lora	. 1	Well No.	94
	eray Cor		·	ļ	rul	TIET	D 1.60				J3
	20 20	Township 17 S	outh	Range	31	East			County	Eddy	
Actual Footage Location		1 1 3	Juli	L				<u> N</u> MP	м1	_ ~~ <i>I</i>	
1350	c.	outh		12	00					East	
Fround level Elev.	THOM UIE	g Formation	line and	Pool				ect fro	m the	line Dedicated	A company
3743	Grayi	_			Gra	whura-	Jackson			40	Aciesge:
1. Outline the			rell by colored pen	cil or ha						40	Acres
2. If more that SING 3. If more that unitization, Ye	n one lease is ded LE LEASE n one lease of diffi force-pooling, etcs	icated to the wel ferent ownership ::7 No If a	I, outline each and is dedicated to the answer is "yes" typetions which have	identify well, ha	the owner the	mership the interest of	ereof (both as	en con:	solidated by ec	• •	
this form if no No allowable	ccessary. will be assigned t	o the well until a	Il interests have be erest, has been app	en conse	olidate	d (by comm				oling, or otherwi	sc)
				37	728.		3745;3 1200;		I here contained he best of my kn Signature Printed Name JERF Position Pern Company AVON F Date Novem SURV I hereby ce on this pla actual surve supervison, correct to belief. Date Surve	hy certify the retin in true a lowledge and be lowledge and be lowledge and be lowledge and be lowledge and that the lowledge low	RPORATION 1990 TIFICATION well location show from field notes or me or under me same is true and my knowledge and
					738.	1350'	3754.5		Professiona P.R.	Patton	PEGIOVAL LIN
								= 1		8	TEM19
330 660 990	1320 1650	1980 2310	2640 200	00	1500	1000	500	Ö			**************************************

SUPPLEMENTAL DRILLING DATA

AVON ENERGY CORPORATION No.94 Turner "B" NESE 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'	Queen	2550 '
Salt	700 '	Grayburg	2950'
Yates	1500 '	San Andres	3350 '
Seven Rivers	1750 '		

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 tested to 1000 psi.

5-1/2" Casing - Set 3500' of 15.5#, K-55, Production Casing Pressure tested 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.

0K (535)

- 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 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.94 Turner "B" NESE Sec.20-17S-31E Eddy County, N.M.

LOCATED: 5.5 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.94 Turner "B" NESE 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 5.5 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 5.2 miles. Go northeast on lease road for 0.1 mile. Turn east and go 0.25 to new access road. Turn south and go about 600' to drill pad.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 600' long and about 14' wide.
- B. <u>Surfacing Material</u>: The new road and well pad will be surfaced with 6" of caliche.
- C. Maximum Grade: Less than 5%
- D. Turnouts: No traffic turnouts are necessary.
- E. <u>Drainage Design</u>: The road will be constructed with a 6" crown and appropriate water turnouts to provide proper drainage.
- F. Culverts: None necessary

- G. Cuts and Fills: Construction of the drill pad will require about 5' of cut on the east side and 5' of fill on the west side. Surface soil will be stock-piled on the edge of the location for use in rehabilitating the disturbed area.
- H. 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 road and 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. Topography: 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 15%. 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 the presence of minor artifacts south of the location but well outside of the proposed area of operations.
- 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 24, 1990

Date:

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

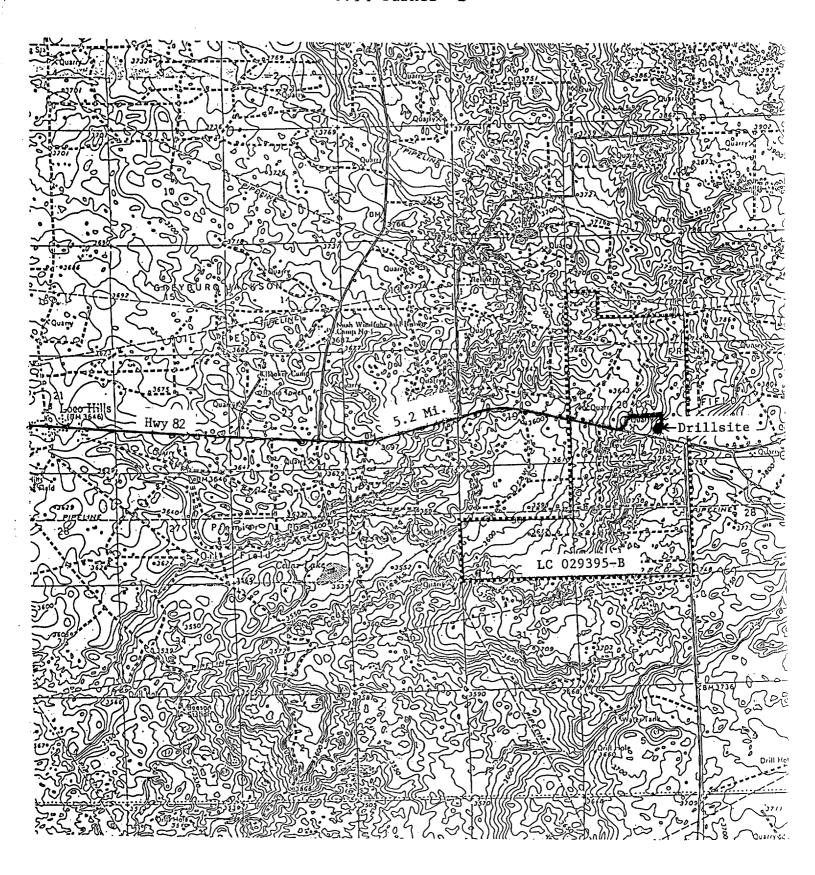
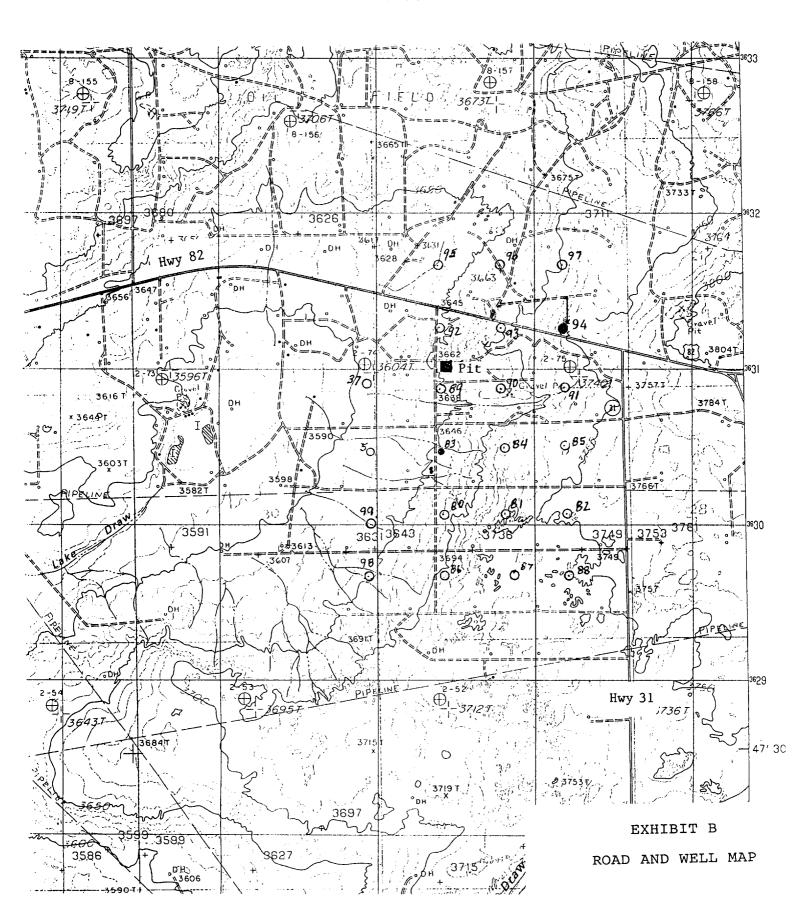


EXHIBIT A
LEASE AND CONTOUR MAP

AVON ENERGY CORPORATION No.94 Turner "B" NESE Sec.20-17S-31E Eddy County, N.M.

LC 029395-B



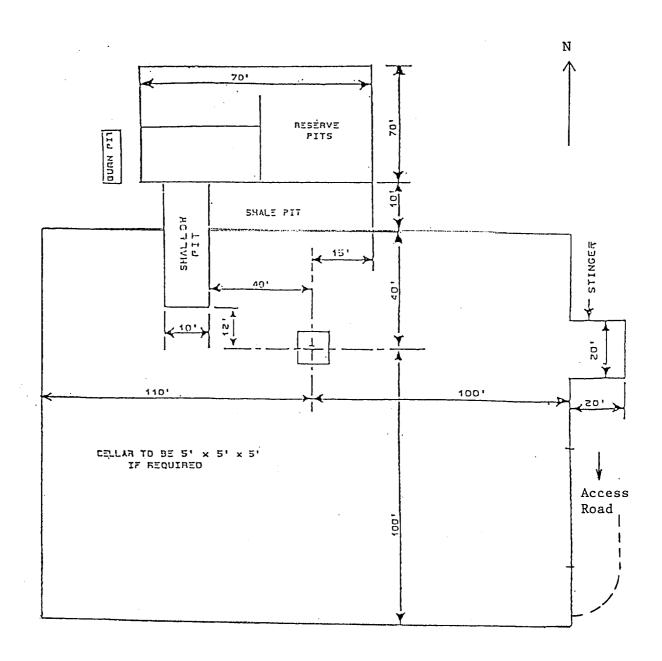
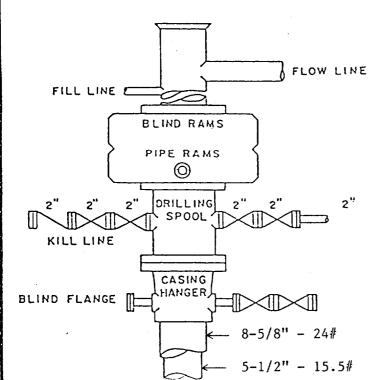
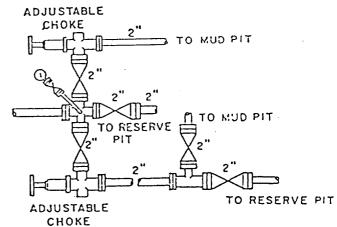


EXHIBIT C

DRILL PAD LAYOUT

AVON ENERGY CORPORATION No.94 Turner "B"





BOP DIAGRAM

2000# Working Pressure Rams Operated Daily