Form 3160-3 (November 1983) (formerly 9-331C)	UNITED STATES Acte DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT				ICATI IB ON Ide)	5. LEAST DESTUNATION AND SERIAL NO.	
APPLICAT	APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						
b. TIPE OF WELL	DRILL 🛛	DEEPEN DEEPEN PLUG BACK			GEGUNH ADDENERTANAND		
WELL X 2. NAME OF OPERATOR	GAS WELL OTHER	IN-FILL WEL	L zo	SINGLE X MULTIPLE		AS. FARM OR LEASE NAME	
	AVON ENERCY COL	PORATION		Ph.91940954	199 8	Turner "B" 9. WELL NO.	
3. ADDRESS OF OPERA	AVON ENERGY CORPORATION 9. WELL NO. 3. ADDRESS OF OPERATOR 310 West Wall, Suite 915 98						
4. LOCATION OF WELL	4. LOCATION OF WELL (Report location clearly and in accordance with one State and 16 91 10. FIELD AND POOL, OF WHIDCAR						
(Unit M)	Grayburg-Jackson						
14. DISTANCE IN MIL	Same IS AND DIRECTION FROM NE.					Sec.29-17S-31E	
	<u>iles southeast</u> o					12. COUNTY OR PARISH 13. STATE	
LOCATION TO NEA	ROPUSED*			D. OF ACRES IN LEASE		Eddy N.M.	
PROPERTY OR LEA (Also to Desrest 18. DISTANCE FROM 1	drig, unit line, if any i	1270'		1786.15	40	HIS WELL	
TO NEAREST WEL OR APPLIED FOR, ON	L. DRILLING. COMPLETED	863'±		OPOSED DEPTH		ARY OR CABLE TOOLS	
	whether DF, RT, GR, etc.)	000 2 1		3500'	Rota	22. APPROX. DATE WORK WILL START*	
3657 GL.				· · · · · · · · · · · · · · · · · · ·		As Soon As Possible	
		PROPOSED CASIN	G ANI	CEMENTING PROGRA	М		
SIZE OF HOLE	BIZE OF CABING	WEIGHT PER FO	0 T	SETTING DEPTH		QUANTITY OF CEMENT	
<u> 12-1/4" </u> 7-7/8"	<u> </u>		-55	600'±	300 sx Class C (<u>Circulate</u>)		
/-//8		<u>15.5# K</u>	-55	3500 (tieback	<u>200</u> s	sx Class C + 600 sx Lite	
Graybur Set 5-1 isolate zones. Run 2-7 Sand-fr See att	to drill to abou g producer. Stat /2" production ca all porosity zon /8" tubing to per ac formation and ached <u>Drilling Da</u> face grazing less	e approval o sing to TD, es. Select: forations an test to tan ta and <u>Surfa</u>	of th ceme ively nd tr ks. ace U	ne unorthodox lo ented with suffi y perforate favo reat formation w Use Plan.	ocatior cient orable with 15	n is pending fort IN-1 cement to fort IN-1 Grayburg 1-25-21 Mew hoc + 14 P. 5% HCL.	
IN ABOVE SPACE DESCI zone. If proposal is preventer program, if 24. SIGNED	any.		data of	lug back, give data on pro n subsurface locations and mit Agent	esent prod i measured	DATE December 18, 1990	
(This pace for F	ederal or State office use)						
PERMIT NO.		J					
	•		Ab	APPROVAL DATE			
CONDITIONS OF APP	EDVAL IF ANY	TITL	r <u>13</u>	A BREAK A CARGO A CARGO		DATE 97	
GENERAL RI GENERAL RI SPECIAL STI	EQUIREMENTS AND	*See Instruc	tions [,] (On Reverse Side			

Title 18 U.S.C. Bection 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.

AND THE ALL REPUBLIC 10 THERE REPUBLICATE 48.0 PLAKE STIPLEATIONS CONTROL

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies			are of New Mexico and Natural Resource	s Departme	Form C-102 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobb	ns, NM 88240		ERVATION D		
DISTRICT II P.O. Drawer DD, Art	esia, NM 88210	Santa Fe,	New Mexico 87504	-2088	
DISTRICT III 1000 Rio Brazos Rd.,	Aziec, NM 87410	WELL LOCATION A All Distances must be	ND ACREAGE DE		
Operator Avon Ene	rgy Corpor	ation	Turner "B	" Federal	Well No. 98
Unit Letter	Section	Township	Range	County	
M Actual Footage Locat	29	17 South	31 East	Ed	dy
1270	feet from the SOU	ith line and	50	feet from the	st "
Ground level Elev. 3657	Producing	g Formation	Pool		line Dedicated Acreage:
	the acreage dedicated	ourg to the subject well by colored pe	Grayburg-	Jackson	40 Acres
		cated to the well, outline each and			
3. If more unitization If answer in this form if No allowat	GLE LEASE – than one lease of difference on, force-pooling, etc. Yes s "no" list the owners f neccessary. ble will be assigned to	LC U29395-B erent ownership is dedicated to th	e well, have the interest of a pe of consolidation e actually been consolidated	all owners been consolidated by	communitization,
					RATOR CERTIFICATION
				I ha contained best of my Signifure	pretry certify that the information herein in true and complete to the knowledge and belief.
	— — 			Company	/ //
			 		mber 18, 1990 VEYOR CERTIFICATION
۲. ۲. ۳. ۳. ۳. 3660.1				on this p actual su supervisor	certify that the well location shown lat was plotted from field notes of ureys made by me or under my n, and that the same is true and o the best of my knowledge and wered
3670.1 3670.3 3670.3 50' 3670.3 50' 50' 50' 50' 50' 50' 50' 50'				— — — Dec Signature Professio P.R	ember 14, P.1990 & Scince mal surveyor Patton Patton
0 330 660 9	90 L320 1650	1980 2310 2640 20	00 1590 1000		e No. To MOBILIE LY

State of New Mexico

PERTINENT INFORMATION

For

AVON ENERGY CORPORATION No.98 Turner "B" SWSW Sec.29-17S-31E Eddy County, N.M.

LOCATED:	5.0 air miles southeast 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:	Atlantic 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

SUPPLEMENTAL DRILLING DATA

AVON ENERGY CORPORATION No.98 Turner "B" SWSW Sec.29-17S-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	2525'
Salt	700'	Grayburg	2930'
Yates	1500'	San Andres	3350'
Seven Rivers	1700'		0000

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. <u>PRESSURE CONTROL EQUIPMENT</u>: 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. <u>Exhibit D</u> is a diagrammatic sketch of the BOP equipment.

OK.

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- 6. <u>CIRCULATING MEDIUM</u>: 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 and a full-opening safety valve.
- 8. TESTING, LOGGING AND CORING PROGRAM:
 - Samples: 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. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:</u> No abnormal pressures or temperatures anticipated. Precautions will be taken to monitor possible traces hydrogen sulfide gas in the Grayburg.
- 10. <u>ANTICIPATED STARTING DATE</u>: Drilling will commence upon Federal and State approval. Drilling and completion will require about 30 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

AVON ENERGY CORPORATION No.98 Turner "B" SWSW Sec.29-17S-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. <u>Exhibit "A"</u> is a portion of a road map showing the location of the proposed well as staked. The well is approximately 5.0 miles southeast 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 1.25 mile. Turn right and go 0.25 mile to new access road. Go 600' northwest to drillsite.
- 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. <u>Cuts and Fills</u>: Construction of the drill pad will require about 2' of cut on the east side and 2' of fill on the west side. Sand dunes will require leveling.
- 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 <u>Exhibit</u> "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. <u>Flora and Fauna</u>: Vegetation consists of mesquite, sagebrush, 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. <u>Residences and Other Structures</u>: A power line located on the west side of the drillsite will not be impacted by the operation.
- F. Archaeological, Historical and Other Cultural Sites: A review by Archaeological Services Consultants determined that no cultural resources will be disturbed by this operation.
- G. Land Use: The surface is used for cattle grazing.
- H. <u>Surface Ownership</u>: The drillsite and access roads are on-lease 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. Perry L. Hughes 310 West Wall, Suite 915 Midland, Texas 79701 Phone 915-687-4338

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.

December 18, 199	, Dury the Long
Date:	JERRY W. LONG, Permit Agent for:
	AVON EVERGY CORPORATION
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AVON ENERGY CORPORATION No.98 Turner "B" SWSW Sec.29-17S-31E Eddy County, N.M.



EXHIBIT A

LEASE AND CONTOUR MAP

AVON ENERGY CORPORATION No.98 Turner "B" SWSW Sec.29-17S-31E Eddy County, N.M.

LC 029395-B



AVON ENERGY CORPORATION No.98 Turner "B"



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EXHIBIT C

DRILL PAD LAYOUT

