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

AM OIL CONG COMMISSION Drawer DD

SUBMIT IN T (Other instructions on reverse side) Budget Bureau No. 1004-0136 Expires August 31, 1985

(formerly 9-331C)	Artesia, MMI DEPARTMEN	JED STATES	S NTE:	חסם י	reverse s		Expires August	No. 1004-0136 31, 1985	
		F LAND MANA					5. LEASE DESIGNATION	AND BERIAL NO.	
ADDITION							LC 029395-B		
APPLICATIO	N FOR PERMIT	TO DRILL, I	DEEP	EN, OR	PLUG B	ACK	G. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
18. TYPE OF WORK	ILL X		_						
b. Tipe of will	ILL M	DEEPEN (ل_	P	LUG BA	CK [_]	7. UNIT AGREEMENT N.	IN B	
WELL (A)	VELL OTHER	IN-FILL WEL	T. 8	INCLE X	MULTIP	LB []	8. FARM OR LEASE NAM	(a	
2. NAME OF OPERATOR				Ph.505-6	77 2222	। ਪੁਲ ਹਾਂ –	Turner "B"		
	AVON ENERGY COL	RPORATION 🗸		rn.505-0	0/1-3223		9. WELL NO.		
3. ADDRESS OF OPERATOR	P.O. Box 38	ordin Lott			APR -	8 1991	105		
	Loco Hills, Nev	w Mexico 882	55				10. FIELD AND POOL, O	WILDCAT	
At surface	deport location clearly an	d in accordance wit	h any S	State require	nents.	. D.	Ø Grayburg-Jac	kson	
150'FSL 2480'FEL, Sec.17-17S-31E							11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zo:	ne				(UNI	T 0)	AND BURVET OR AR	C.A.	
	Same				(SWS	E)	Sec.17-17S-3	1E	
	AND DIRECTION FROM NEA						12. COUNTY OR PARISH	13. STATE	
5.5 air mile	s ENE of Loco H	Hills, New M	exic	o			Eddy	N.M.	
LOCATION TO NEARES PROPERTY OR LEARE 1	USED* T			O. OF ACRES	N LEASE		F ACRES ASSIGNED		
(Also to nearest dri 18. DISTANCE FROM PROI	g. unit line, if any i	<u>2480'</u>		786.15			40		
TO NEAREST WELL D	RILLING COURTERS		19. PR	OPOSED DEPT	11	20. ROTAL	Y OR CABLE TOOLS		
OR APPLIED FOR, ON TH		_725 ' ±	3	700 '		Rot	ary		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)			-			22. APPROX. DATE WOR	K WILL START*	
3674' GL.						-	As Soon As Po	ccibla	
23.		PROPOSED CASIN	G ANI	CEMENTI	G PROGRA	м	11.0 00011 213 10		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER PO	or	SETTING	SETTING DEPTH QUANTITY OF CEMENT				
12-1/4"	8-5/8"	24.0# J	- 55	600'	+	300 sx Class C(Circulate)			

3700'±

Propose to drill to about 3700' 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.

Post ID-1 4-12-91 New Loc + API

200 sx Class C + 600 sx Lite

(Tie Back To 8-5/8")

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.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. Permit Agent PATE February 18, 1991 TITLE . (This space for Federa) or State office use) APPROVAL DATE 43**9** 15 The American APPROVED BY CONPUNIONS OF LEBROYAL, THANY:

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

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 I P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease	··				THE RESERVE	
Avon Energy Corporation			1	ırner	"B"	Feder	al	Well No.	5	
Unit Letter 0	Section 17	Township 17	South	Range 31	East			County	1	
Actual Footage Loca	C o	uth		1		2480	NMPN		- <u>-</u>	
Ground level Elev.	Teet Hom the		line and	,	···	2400	fect from	East East	line	
3674	i i	g Formation		Pool					Dedicated Acre	age:
	the acreage dedicate		Il bu column	Grayl	ourg-Ja	ckson			40	Acres
ა.	than one lease is dec INGLE LEASE									
3. If more unitizati	than one lease of diffion, force-pooling, et-	Terent ownership is c.?	dedicated to the	well, have the	interest of a	all owners	been conse	olidated by comr	nunitization,	
	Yes		swer is "yes" typ	c of consolidat	ion					
If answer	is "no" list the owner	s and tract descript	ions which have	actually been o	onsolidated	. (Use re	verse side o	·f		
this form i	if neccessary.									
or until a r	ble will be assigned t non-standard unit, eli	to the well until all numating such inter	interests have be est, has been app	en consolidated for the D	d (by comm division.	unitizatio.	n, unitizatio	n, forced-poolin	g, or otherwise)	
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	!							SURVEY	OR CERTIF	ICATION
	[I hereby certify	y that the well	location shown
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					<u>t</u>			Signature & Sc Professional Su	al of P P	Patton
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PERTINENT INFORMATION

For

AVON ENERGY CORPORATION No.105 Turner "B" SWSE Sec.17-17S-31E Eddy County, N.M.

LOCATED:

5.5 air miles ENE 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

AUTHORITY TO OPERATE:

Assignment of Operating Rights

SURFACE OWNERSHIP:

Federal

GRAZING PERMITTEE:

Charles R. Martin, Inc.

P.O. Box 706

Artesia, New Mexico 88210

Phone 505-746-2796

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.105 Turner "B" SWSE Sec.17-17S-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	625 '	Oueen	2600'	
Salt	700'	Grayburg	2950' 3400'	
Yates	1600'	San Andres		
Seven Rivers	1800'	ban Andres		

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 3700' 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.

- 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: 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.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

AVON ENERGY CORPORATION No.105 Turner "B" SWSE Sec.17-17S-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-northeast of Loco Hills, New Mexico.
- B. <u>Directions</u>: Go east from Loco Hills, N.M. on U.S. 82
 a distance of 5.3 miles. Go northeast on lease road for
 0.8 mile. Turn west on lease road and go 500' to drillsite.

2. PLANNED ACCESS ROAD:

- A. Length and Width: A new road will not be necessary. An existing lease road crosses the drill pad.
- B. Surfacing Material: The well pad will be surfaced with 6" of caliche.
- C. Maximum Grade: Less than 2%
- D. Turnouts: No traffic turnouts are necessary.
- E. Drainage Design: The existing road will be maintained.
- F. Culverts: None necessary
- G. <u>Cuts and Fills</u>: Construction of the drill pad will require leveling of 2' sand dunes.

H. Gates, Cattle Guards: None necessary

3. LOCATION OF EXISTING WELLS:

A. See Exhibit B

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Pipelines on the north, west and south sides of the drill pad will be located and waivers will be obtained from the owners.
- B. Temporary production facilities will be located on the well pad. An application for permanent flow lines will be filed at a later date.

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. <u>Topography</u>: The wellsite and access road are located in the Querecho Plains. The project area drains to the southwest toward Cedar Lake Draw.
- 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 5%. 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
- 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. Surface Ownership: The drillsite and access road are on-lease Public surface. The grazing lessee is Charles R. Martin, Inc., P.O. Box 706, Artesia, N.M. 88210.

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 505-677-3223

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.

February 18, 1991

Date:

JERRY W. LONG, Permit Agent for: AVON ENERGY CORPORATION AVON ENERGY CORPORATION No.105 Turner "B" SWSE Sec.17-17S-31E Eddy County, N.M.

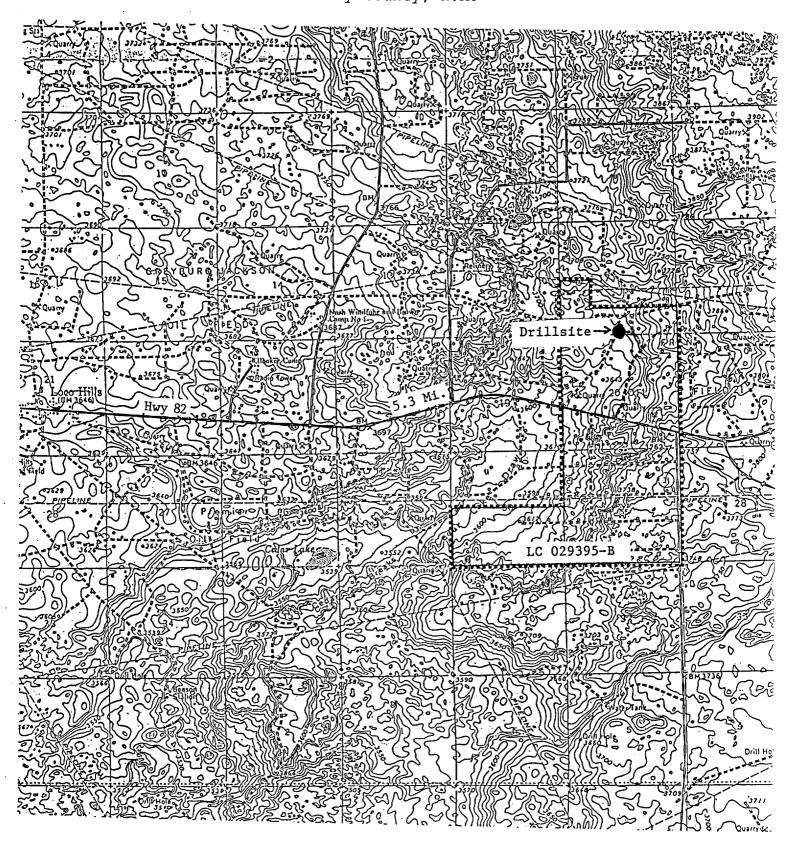
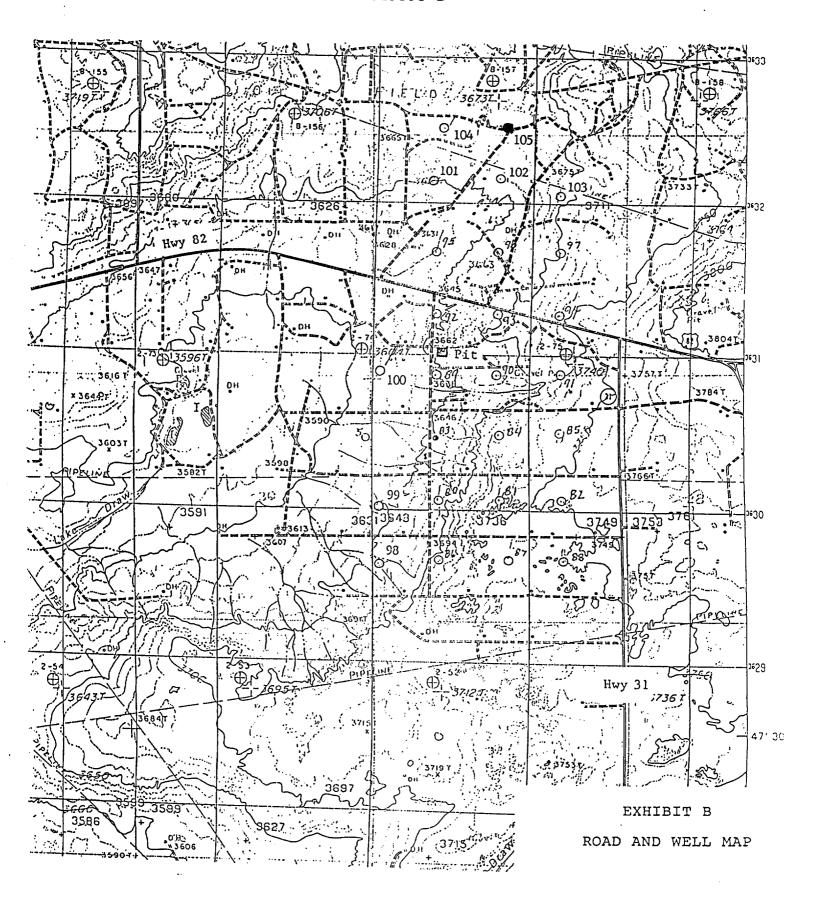


EXHIBIT A

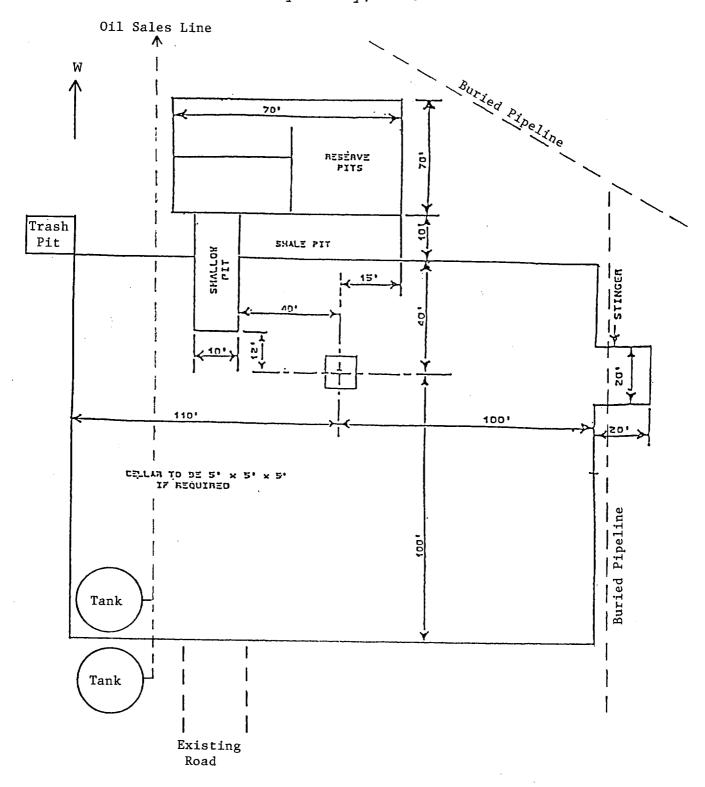
LEASE AND CONTOUR MAP

AVON ENERGY CORPORATION No.105 Turner "B" SWSE Sec.17-17S-31E Eddy County, N.M.

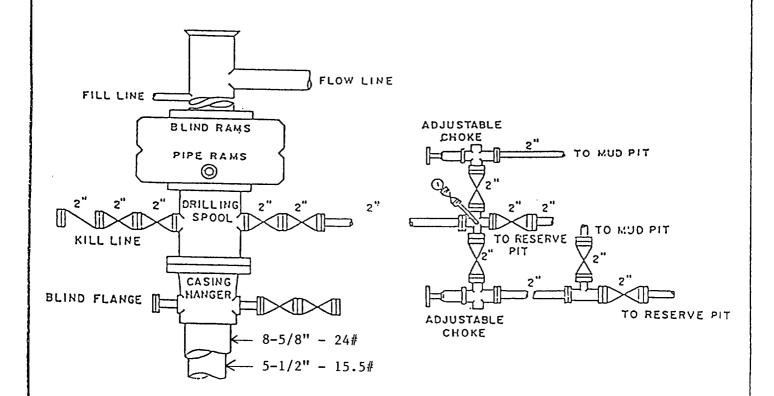
LC 029395-B



AVON ENERGY CORPORATION No.105 Turner "B" SWSE Sec.17-17S-31E Eddy County, N.M.



AVON ENERGY CORPORATION No.105 Turner "B" SWSE Sec.17-17S-31E Eddy County, N.M.



BOP DIAGRAM

2000# Working Pressure Rams Operated Daily