Form 3160-3 (November 1983)

HNITEN STATES

SUBMIT IN ' LICATE* (Other instructions on

30-015-3657/-Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

tionmerty 9-331C)	DEPARTMEN	IT OF THE		PIOD	ide)	Expires Augu		
		F LAND MANA		- -		5. LEASE DESIGNATION	ON AND SERIAL NO.	
A DDL ICATION		· · · · · · · · · · · · · · · · · · ·				LC 029395-1 6. IF INDIAN, ALLOTT	3	
APPLICATION	Y FOR PERMIT	TO DRILL,	DEEP	EN, OR PLUG B	ACK	O. IF INDIAN, ALLOT	TEE OR TRIBE NAME	
	LL X	DEEPEN		PLUG BAG	CK []	7. UNIT AGREEMENT	NAME	
TYPE OF WELL			_					
	ELL OTHER	IN-FILL WEL	L s	ONE ZONE	LE [8. FARM OR LEASE N	AMB	
NAME OF OPERATOR			Ph.9	915-683-5449		Turner "B"		
ADDRESS OF OPERATOR	AVON ENERGY CO			RECEIV	ED	9. WELL NO.		
	415 W. Wall, S					88 10. FIELD AND POOL,	OR WILDCAT	
OCATION OF WELL (Re	Midland, Texas	nd in accordance wi	th any S	State requirements.*.)	100	y Grayburg_Ja		
_	'FSL 1335'FEL	Sec.29-17	. 211		'90	11. SEC., T., B., M., O	R BLK,	
At proposed prod. zon		Sec. 23-17	9-211	·n. 2		AND SURVEY OR	AREA	
Dram. Von ter	Same				**************************************	Sec.29-17S-		
	ND DIRECTION FROM NE				a Turkard	12. COUNTY OR PARIS	H 13. STATE	
DISTANCE FROM PROPO	southeast of	Loco Hills,). OF ACRES IN LEASE	1 17 NO /	Eddy OF ACRES ASSIGNED	N.M.	
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	1335'			TO T	HIS WELL		
(Also to nearest drig DISTANCE FROM PROP	OSED LOCATION*			786.15 4		ORY OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED, 8 LEASE, FT.	930 ' ±		500 '		tary		
LEVATIONS (Show whe	ther DF, RT, GR, etc.)		<u>' </u>	700	1 101	22. APPROX. DATE V	VORK WILL START*	
3747 GL						As Soon As I	ossible?	
		PROPOSED CAS	ING ANI	CEMENTING PROGRAM	Л			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	T 00	SETTING DEPTH		QUANTITY OF CEM	ENT	
12-1/4"	8-5/8" 24.0#		J-55 600'± 3		300 s	0 sx Class C (Circulate)		
7-7/8"	5-1/2"	15.5# K	C-55	3500CHRCULA		sx Class C + 6		
isolate all zones. Run 2-7/8"	porosity zone	es. Selecti forations an	vely	nted with suffice perforate favor	rable (Grayburg		
See attache	d <u>Drilling</u> dat	ta and Surfa	ice Us	se Plan.			C) m	
The surface	grazing less	ee has been	advis	sed of the propo	osed op			
	irill or deepen direction			lug back, give data on pr n subsurface locations an				
IGNED JUN	y J. Long	-A TI	rle Pe	ermit Agent		DATE Novem	ber15,1990	
	a or State office use)	7						
PERMIT NO.				APPROVAL DATE				
	îni T			APTA MANAGER CARLEGATE RESIDENCE LIGHT		19	5-611	
APPROVED BY	f IP ANY	тго	TLE	ි. ප්රතිය දී ප්රතිය විය. ප්රතියේ දී ප්රතිය වී	·	DATE	1-10	
PPROVAL SUBJEC	1 10							
ENERAL REQUIRE	MENTS AND							
PECIAL STIPULAT	IONS	*Soc Instru	etione	On Royana Sida				

*See Instructions On Reverse Side Title 18 C.S.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. <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., Azlec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease				Well No.	
•	Energy C	Corporatio	n	Tur	ner "B" Fe	dera:	1	88	
	Section	Township		Range			County	<u> </u>	
J	29	17	South		East	A15 47 14	F	ddy	
Actual Footage Locati	on of Well:	<u> </u>		l		<u>N</u> MI]N	·11		
1335	feet from the	South	line and		1335	feet from	n the East	line	
Ground level Elev.	Produc	ing Formation		Pool		1000 1101	il dic	Dedicated Acre	age:
3747	Gray				ourg-Jackson			40	Acres
1. Outline t	he acreage dedicat	led to the subject wel	by colored pen	cil or hachure n	orks on the plat below	v.			
2. If more t	han one lease is d	edicated to the well	outline each and	identify the ma	nership thereof (both a		·! !		1
SING	LE LEASE						-	• •	
3. If more t	han one lease of d	lifferent ownership is	dedicated to the	well, have the	nterest of all owners 1	been cons	olidated by com	munitization,	1
	n, force-pooling, of		swer is "yes" typ	se of consolidati	- n				[
			ions which have	actually been co	onsolidated. (Use reve	erse side o	of		
this form if	neccessary,								
No allowab	le Will be assigned	l to the well until all liminating such inter	interests have be	cen consolidated	(by communitization	unitizatio	on, forced-poolin	ig, or otherwise)	İ
0. 411.1 4 20	Za danica de dies e	imunating such inter	esc, has been app	noved by the Di	VISIOU.	_I			
			T			l	OPERAT	OR CERTIFI	CATION
	i							certify that the	
	i							in in true and colledge and belief.	complete to the
	i		1				v v,y 2	A	
	i						Signature	14 7	
	1		į.	1			Lur	4 11:00	and 1
	i					1 /	Printed Name	7	
 	 ;		 			4	JERRY W	LONG	
	i						Position		,
	i						Permit	Agent	
	i		l				Company		
	i						AVON ENER	GY CORPOR	ATION
	i		İ					. 15 1000	1
	i						November	15, 1990	
	!		*********		<u> </u>		SURVE	YOR CERTIF	ICATION
	1		3						
	i I							fy that the well was plotted from	
	i I					1		s made by me	
	l 1							nd that the san	
	ļ				j.		belief.	e best of my	knowledge and
	1		1	3745.3	3749.4				
	ļ.		Ì		1335'		Date Surveyed		
			******				Novembe	<u>r 15, el</u> 9	Por
	!			3744.7	3749.4		Signature & S Professional S	cal of Q	De Que
	ļ		Í					والنها ا	
	ļ.		}	_				138	Parties -
	ļ.			35	į			1 2 C (1 C)	May I
	į			m	!		'		~ / <u>\$</u> /
	!				<u> </u>		Certificate No	180	- (W)
<u></u>	<u> </u>		1		<u> </u>	!		8 N1 2501 FSS	TOHAL
0 330 660 9	90 1320 165	0 1980 2310 2	540 20	00 1500	1000 500	0	<u> </u>		

SUPPLEMENTAL DRILLING DATA

AVON ENERGY CORPORATION No.88 Turner "B" NWSE 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	625 '	Queen	2600'
Salt	700 '	Grayburg	2950'
Yates	1600'	San Andres	3400'
Seven Rivers	1800'		

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.

- 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.88 Turner "B" NWSE Sec.29-17S-31E Eddy County, N.M.

LOCATED: 5.7 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: 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.88 Turner "B" NWSE 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. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The well is approximately 5.7 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 6 miles. Go south on State 31 for 0.8 mile. Turn west on lease road and go 0.25 mile. Turn south and go 500' to drillsite.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 500' long and about 14' wide.
- B. Surfacing Material: The new road and well pad will be surfaced with 6" of caliche.
- C. Maximum Grade: Less than 1%
- 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 road will require leveling of 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. 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 existiing 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 west toward Cedar Lake Draw. Construction of the drill pad will require leveling of 4' sand dunes.
- B. <u>Soil</u>: The surface soil is fine sand with caliche and chert inclusions.
- C. Flora and Fauna: Vegetation consists of mesquite, yucca, and various weeds and grasses. Ground cover is about 20%. 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 are present.
- G. Land Use: The surface is used for cattle grazing.
- H. Surface Ownership: The drillsite and 500' of 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 15, 1990

Date:

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

AVON ENERGY CORPORATION No.88 Turner "B"

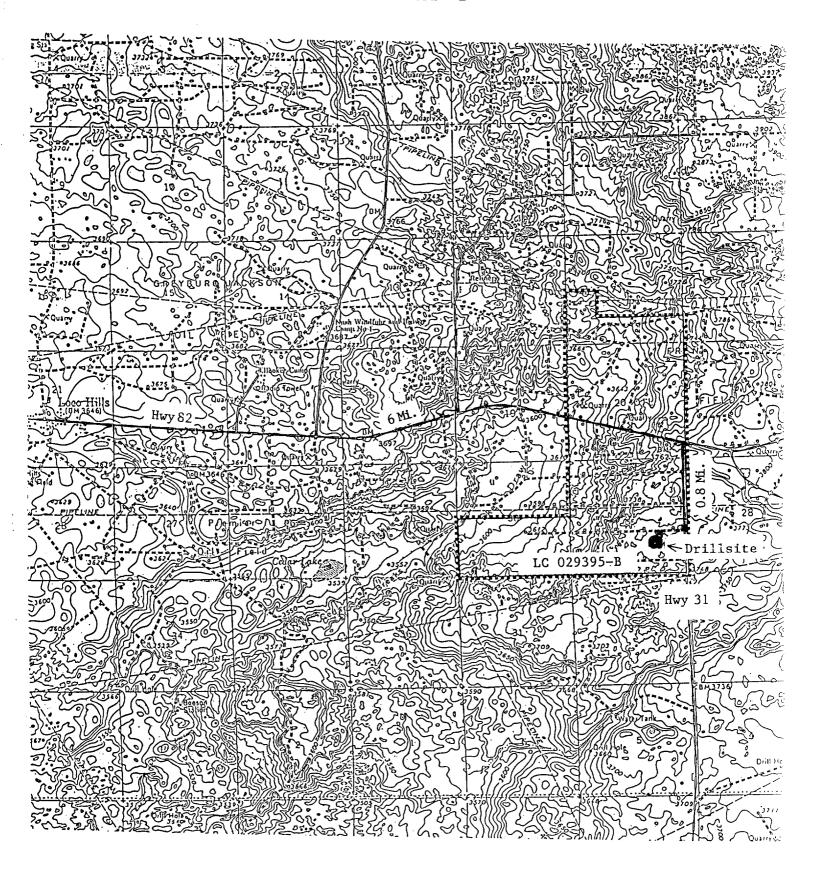
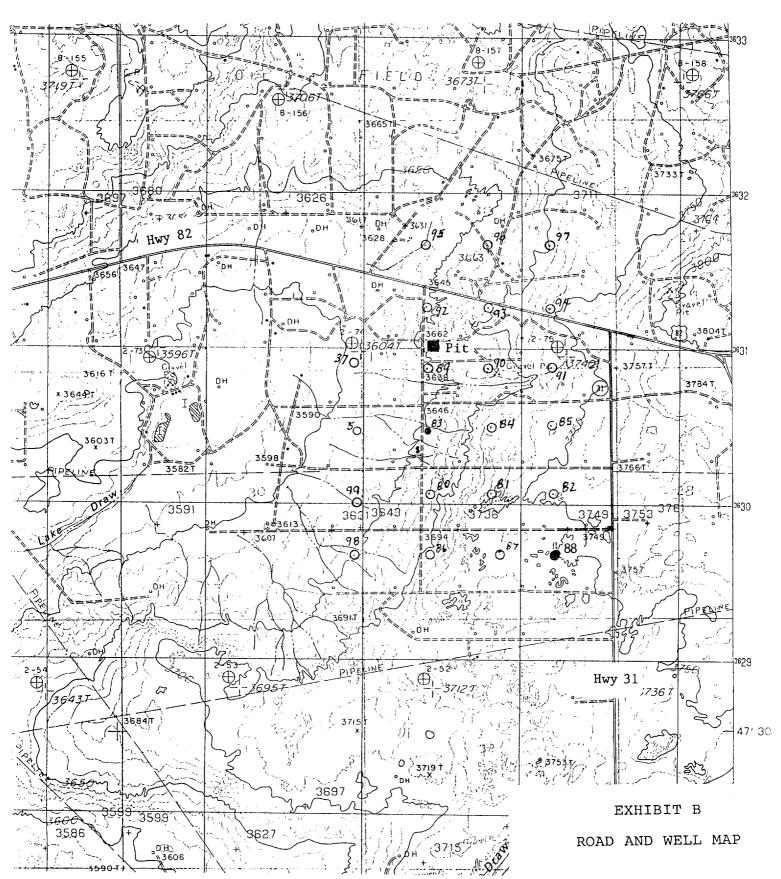


EXHIBIT A
LEASE AND CONTOUR MAP

AVON ENERGY CORPORATION No.88 Turner "B" NWSE Sec.29-17S-31E Eddy County, N.M.

LC 029395-B



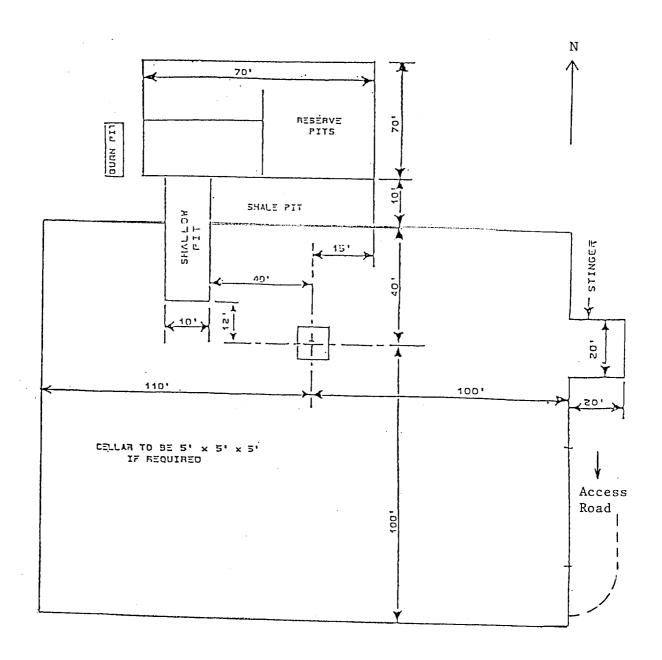
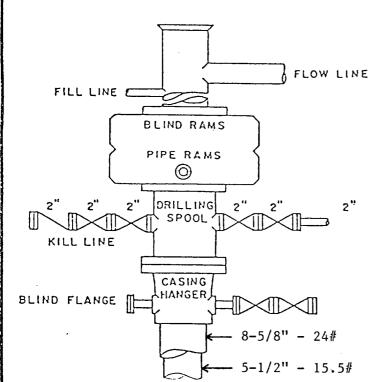
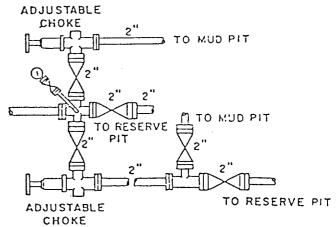


EXHIBIT C

DRILL PAD LAYOUT

AVON ENERGY CORPORATION No.88 Turner "B"





BOP DIAGRAM

2000# Working Pressure Rams Operated Daily