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

No OIL COMESSION Drawer Di

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

Artesia, ha S2210 UNITED STATES DEPARTMENT OF THE INTERIOR

	RUPEALLO	F LAND MANA	CEME	NT		3. LEASE DESIGNATION	AND SERIAL NO.	
A DDI ICATIO						LC 029395-E		
	N FOR PERMIT	TO DRILL,	DEEP	EN, OR PLUG B	ACK	O. IS INDIAN, ALLOTTE	B OR TRIBE NAME	
la. TYPE OF WORK	ILL X	DEEPEN		PLUG BAG	רו ער	7. UNIT AGREEMENT P	NAME	
b. TYPE OF WELL	ILL A	DEEPEN	L_J	PLUG BA	JK ∐			
	VELL OTHER	IN-FILL WEI	.T 2	INGLE X MULTIP	ric 🗌	8. FARM OR LEASE NA	ME	
2. NAME OF OPERATOR		TH LIDD MUL		Ph.915-683-54	1/10	Turner "R"		
	AVON ENERGY C	ORPORATION »		RECE		Turner "B" 9. WELL NO.		
3. ADDRESS OF OPERATOR	/15 TJ T7-11	0- 1010			_	93		
	Midland, Texa	s 79701		State requirements.JAN -		10. FIELD AND POOL,	OF WILDCAT	
LOCATION OF WELL (R At surface	deport location clearly a	nd in accordance wi	th any	State requirements.JAN -	9 '01	v Grayburg-Ja	g-11-6-517 ackson	
(Unit N)	1140'FSL 2560'	FWL Sec.20-	-17S	31E. (7 31	11. SEC., T., R., M., OR AND SURVEY OR A	BLK. REA	
At proposed prod. zor	ie	500.20	1,0	1. N 0. C	. D		•	
4 DISTANCE IN MILES	Same AND DIRECTION FROM NE	LANGE MOUNT OF THE		V		Sec.20-17S-		
						12. COUNTY OR PARISH	i	
5. DISTANCE FROM PROP	s east of Loco	HIIIS, N.M.		O. OF ACRES IN LEASE	1 17 NO	Eddy OF ACRES ASSIGNED	N.M.	
LOCATION TO NEARES	LINE, FT.	25601	İ		TO T	THIS WELL		
(Also to nearest dri 8. DISTANCE FROM PROI		2560 '		1786.15 19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS		
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	7001+						
1. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	700 ' ±	1 3	500'	I Ro	tary 22. APPROX. DATE WO	ORK WILL STARTS	
3690' GL						ı		
3.		DRODOSMD GAST	NC A NT	D CEMENTING PROGRA		As Soon As I	COSSIDIE	
		PROPOSED CASI	NG AN	CEMENTING PROGRA	.M.			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	T00T	SETTING DEPTH		QUANTITY OF CEME		
12-1/4"	8-5/8"		-55	600'±		x Class C (Circ		
7-7/8"	5-1/2"	15.5# K-	-55	3500' ± (Hie Dack	200 s	x Class C + 600		
		:				P	est ID-1	
)	-18-91	
Propose t	o drill to abo	ut 3500' and	l com	plete as an in-	Eill ne	on-standard 🧳	1	
Grayburg	producer. Sta	re approvar	OT L	ne mnorthodox To	ocation	n is penaing 🖊		
Set 5-1/2	" production c	asing to TD,	cem	ented with suff:	icient	cement to	API	
	ll porosity zo	nes. Select	ivel	y perforate favo	orable	Grayburg		
zones.						in in the second	7	
Pun 2-7/9	11 tubina ta ma				1		-42 ZG	
Sand-frac	formation and	riorations a	ina t	reat formation v	with 1.	5% HCL.	\vec{m}	
balla 11ac	rormacion and	test to tar	iks.			-		
See attac	hed <u>Drilling</u> d	ata and Surf	ace	Use Plan.		į t	<u> </u>	
						••	[[1]	
The surfa	ce grazing les	see has beer	adv	ised of the prop	osed o	operation.		
				• •	•		<u>್</u>	
N ABOVE SPACE DESCRIBE	PROPOSED PROGRAM : If	proposal is to dee	nen or r	olug back, give data on pr	esent prod	•		
one. If proposal is to	drill or deepen direction	nally, give pertinen	t data o	on subsurface locations an	d measure	ed and true vertical depti	as. Give blowout	
reventer program, if an	l o	 						
	re Motor	u a				N 1	00 1000	
SIGNED FRR	Y V LONG	TI	r.e _ P	ermit Agent		DATENOVEMBE	1723,1990	
(This space for Fede	ral or State office use)							
PERMIT NO	•	•		ADDDOVAL SAME				
PERMIT NO.	された動作 こう。 St. Constant			APPROVAL DATE				
APPROVED BY			С Элг	ARISBAD ARISBAD		DATE /-	8-91	
APPROVAL SUBJECT	ALTH ANY:			ARLSBAD RESOURCE AREA				
GENERAL REQUIREM								
SPECIAL STIPULATI	ก <i>น</i> ี2	*Caa		On Payama Sida				

*See Instructions On Reverse Side

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico rgy, Minerals and Natural Resources Departm

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 | 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

			All Di	stances must be	nom the onte	r bounganes	or the section		
Operator					Lease				Well No.
Avon En	nera	v. Corpo	ration		Turn	er "B"	Federal		93
Unit Letter	Section		Township						
	500				Range	D = = ±		County	
N	<u> </u>	20	17 Sc	outn	31	East	NM:	_{I'M} Eddy	
Actual Footage Loc.	auon oi		_						
1140	feet fr	om the So	outh	line and		2560	feet fr	om the West	line
Ground level Elev.	I	Producin	g Formation		Pool				Dedicated Acreage:
3690	1	Grav	yburg		Gravl	ourg-Jac	kson		40
1. Outline	e the ac			ell by colored per					40 Acres
		•				o c.e p			
2. If mon	e than o	ne lease is ded	icated to the well	, outline each and	identify the ow	nership theree	of (both as to wo	orking interest and	rovalty).
SI	LNGLE	E LEASE							
3. II mon	e than o	ne lease of dif	erent ownership	is dedicated to the	well, have the	interest of all	owners been con	nsolidated by comr	nunitization,
uniuza		rce-pooling, etc	1						
If applies	Yes	liet the array	No If a	inswer is "yes" typ	e of consolidati	ion			
this form	if neces	nst the owner	and tract descrip	rtions which have	actually been c	onsolidated. ((Use reverse side	e of	
No allow	able wil	I he assigned t	o the well until a	Il interests have be	nan consolidate	Chy commun	itiaatiaa maitiaa	uon, forced-poolin	
or until a	non-sta	ndard unit. elir	ninating such into	erest, has been app	moved by the D	i (by commun	iiuzation, unitiza	uon, torcea-poolin	g, or otherwise)
				rest nas occir at)	noved by the D	11151011.			
		1		7		<u> </u>		OPERAT	OR CERTIFICATION
1		!			•	!		li .	certify that the information
		I				1	ļ	contained herei	n in true and complete to the
		İ				1	ļ	best of my know	ledge and belief.
		1				į			2 2
		i		1		i I		Signature	
		1		1				Lerr	1. The Xoura
		!		1		į		Printed Name	901.04
		_1		•				1/ /	/11 10110
				T -				JERRY	W. LONG
						i		Position	*
1		i				; [t Agent
1		1				!		Company	
Ì		!				l		AVON ENE	RGY CORPORATION
		j				1		Date	
		i		į		1		November	23, 1990
1		İ		ł		i			
						! 1		SURVEY	OR CERTIFICATION
		ł							
		. !				1	ł	I hereby certify	that the well location shown
		ļ				İ	İ		as piosted from field notes of
		1		ķ		İ		actual surveys	made by me or under my
		i		İ		i		supervison, and	d that the same is true and
		1		İ		1	ł	1	best of my knowledge and
		!		1		1		belief.	
		l l				Ī	1	Date Surveyed	
 			·3677.8·	- 3689	9	 		1	ember, 161, 1990
256	י מו	3				i		Signature & Se	300
- 25°		- i	 1	P E		i	t	Professional Su	rveyor Z
1		•	3604	H 2710 (2	1	1	1 /.	
		1	3694.8	3710.8	3	Ţ		P. R./	Pattor Pat
1		3	_ 1	E		1		1 1	27/18/21 5
		3	40	E		1			
1		i	14	E		i		1 /	
1		<i>3</i>		F .		1		Certificate No.	100
		_1		<u> </u>		1			Constant in
	_				=				0110
0 330 660	990	1320 1650	1980 2310 2	2640 200	00 1500	1000	500 0		

SUPPLEMENTAL DRILLING DATA

AVON ENERGY CORPORATION No.93 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 '	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.

 ok 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. $\underline{\text{AUXILIARY EQUIPMENT}}$: 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.

PERTINENT INFORMATION

For

AVON ENERGY CORPORATION No.93 Turner "B" SESW Sec. 20-17S-31E Eddy County, N.M.

LOCATED: 5.3 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.93 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 5.3 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 0.2 mile. Turn east and go 0.2 mile to new access road. Go 500' northeast to drillsite.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 500' 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. <u>Turnouts</u>: 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 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 artifacts east of the drillsite.
 The drill pad will be oriented in order to prevent disturbance of these artifacts.
- G. Land Use: The surface is used for cattle grazing.
- H. Surface Ownership: The drillsite and access roads 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 23, 1990

Date:

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

AVON ENERGY CORPORATION No.93 Turner "B"

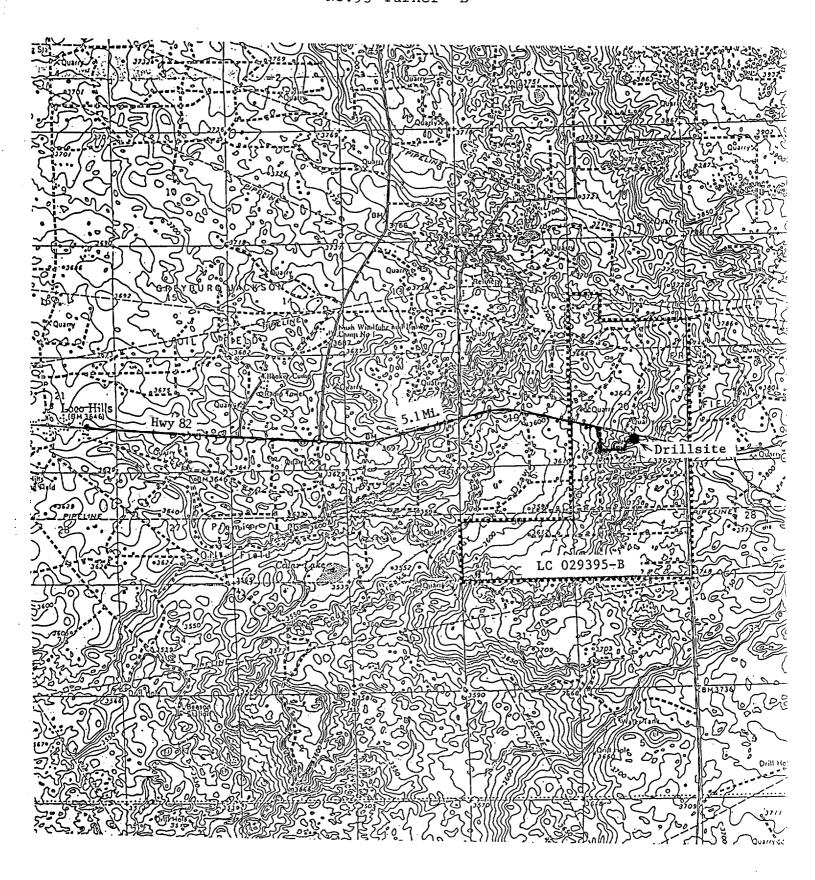
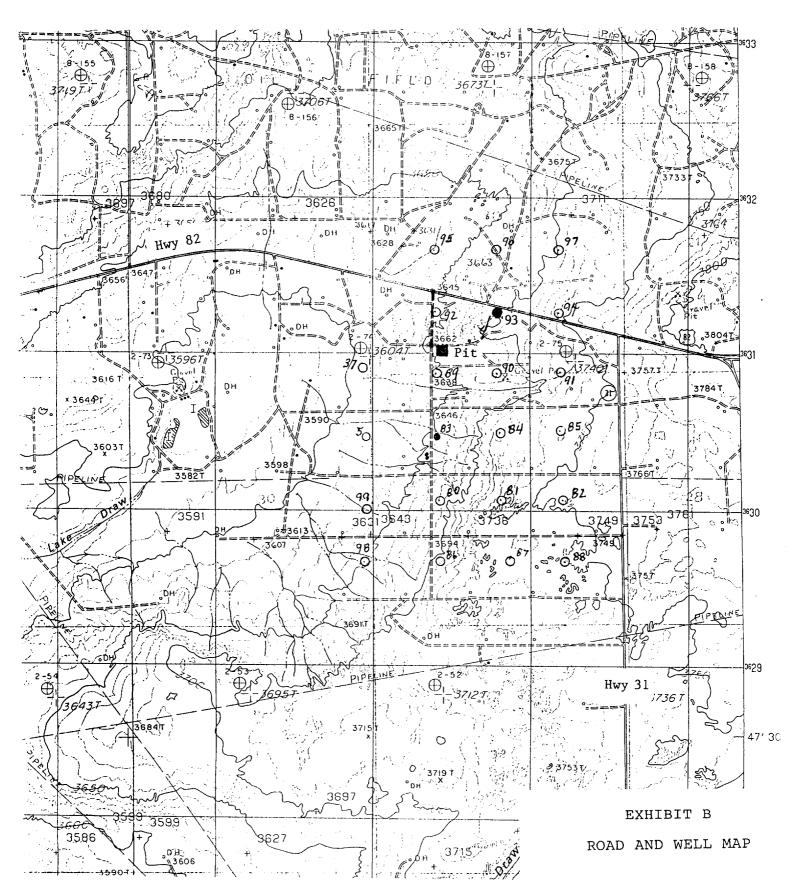


EXHIBIT A LEASE AND CONTOUR MAP

AVON ENERGY CORPORATION No.93 Turner "B" SESW Sec.20-17S-31E Eddy County, N.M.

LC 029395-B



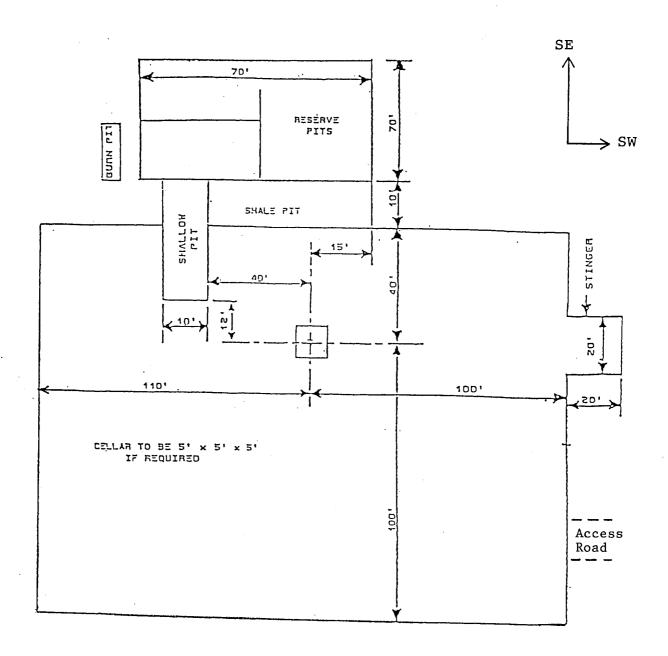
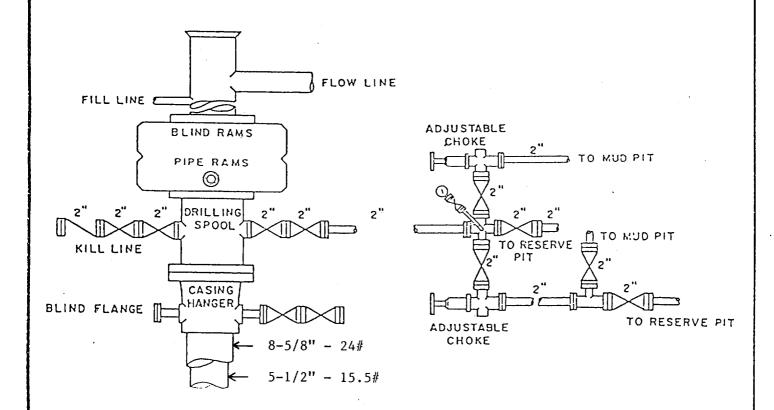


EXHIBIT C

DRILL PAD LAYOUT

AVON ENERGY CORPORATION No.93 Turner "B"



BOP DIAGRAM

2000# Working Pressure Rams Operated Daily