(November 1983) 名平61 (formerly 9-331余子 t e S)	DEPARTMEN BUREAU OF	TED STATE: T OF THE I	N I EI GEMEI	RIOR NT	LICATE tructions on e side)	5. LEASE DESIGNATION LC-065014	31, 1985 AND BEBIAL NO.
	N FOR PERMIT	TO DRILL,	DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
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. NAME OF OPERATOR			7	Ph.915-683-54	49	Max Friess Max	<u>1A</u>
	<u>AVON ENERGY CO</u> 415 W. Wall, St					9. WELL NO.	
1	Midland, Texas	79701				10. FIELD AND POOL, O	R WILDCAT
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	A) 1270'FNL,	100'FEL, Se	c.30-	-17S-31E		11. SEC., T., E., M., OR F AND SURVEY OR AR	ELK.
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(Also to nearest drig 8. DISTANCE FROM PROP	OSED LOCATION*	100'		60 ROPOSED DEPTH		RY OR CABLE TOOLS	······
TO NEAREST WELL, DI OR APPLIED FOR, ON THI		300 ' ±	3	500'	Rot		
L. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	·····		· · · · · · · · · · · · · · · · · · ·	i	22. APPROX. DATE WO	RK WILL START*
3612.8 GL						As Soon As Po	ssible
		PROPOSED CASI	ING ANI	CEMENTING PROG	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		SETTING DEPTH			······································
<u>12-1/4"</u> 7-7/8"	<u>8-5/8"</u> 5-1/2"			<u>x Class C (Cir</u>	s C (<u>Cirulate)</u> s C + 600 sx Lite		
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signed	y the Lon	19 TIT	`LE	Permit Agent		DATE October	26, 1990
(This space for Feder	a or State office use)	1			•	<u>1999 - Angele State (1998) (1999) (1</u>	
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APPROVED BY	· /	ጥየጥ	'LE	na an ann an Arrainn An Arrainn an Arrainn an Arrainn	1- <i>P</i>	DATE 22	6-91
CONDITIONS OF APPROVA	L, IF ANY ;	· ·TIT			4		

*See Instructions On Reverse Side

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Title 18 U.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.

District Office	
State Lease - 4 copies	
Fee Lease - 3 copies	

330

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

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

Energy, Minerals and Natural Resources Department

Garan Des 14

Revised 1-1-89

UIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION DLAT

DISTRICT III 1000 Rio Brazos Rd.	Azec, NM 87410	WELL LOCATION All Distances mus		AGE DEDICAT		Γ.		
Operator			Lease				Well No.	
Avon Ener	<u>rgy Corporat</u>	ion	Max	Friess MA			5	
Unit Letter	Section	Township	Range			County	1	
X A	30	17 South	31 E	ast	NMI'M			
Actual Footage Loca	tion of Well:	· · · · · · · · · · · · · · · · · · ·						
1270		rth line a	nđ	100	fect from	uhe East	line	
Ground level Elev.	Producing	Formation	Pool				Dedicated Acn	cage:
	3612.8 Grayburg		Graybı	Grayburg-Jackson			40	Acres
1. Outline	the acreage dedicated	to the subject well by colored	pencil or hachure i	marks on the plat bel	ow.		1	Alles
Unitizat If answer this form i No allowa	ion, force-pooling, etc Yes is "no" list the owners if neccessary. ble will be assigned to		" type of consolidat have actually been o	tion consolidated. (Use m d (by communitization	everse side of			
				3611. 100. 3613.		I hereby ontained here est of my know Signature Finited Name JERRY Position OZI.4 Per Company AVON ENI Dute	TOR CERTIF , certify that ein in true and wledge and belief M. LONG Cmit Agent ERGY CORPO 26, 1990	the information complete to the

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SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief.



PERTINENT INFORMATION

For

AVON ENERGY CORPORATION No.5 Max Friess MA 1270'FNL 100'FEL Sec.30-17S-31E Eddy County, N.M.

LOCATED:	4.6 air miles southeast of Loco Hills, New Mexico
FEDERAL LEASE NUMBER:	LC-065014
LEASE ISSUED:	December 31, 1938 HBP
ACRES IN LEASE:	160 Ac.
RECORD LESSEE:	Soccoro Petroleum Company
BOND COVERAGE:	Alta Corp. Bond will be changed to include Avon Energy Corporation
AUTHORITY TO OPERATE:	Assignment of Operating Rights
SURFACE OWNERSHIP:	State
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. Road and Contour Map B. Lease and Well Map C. Rig Layout D. BOP Diagram

SUPPLEMENTAL DRILLING DATA

AVON ENERGY CORPORATION No.5 Max Friess MA 1270'FNL 100'FEL Sec.30-17S-31E Eddy County, N.M.

LC-065014

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:

Salt	550'	Queen	2450'
Yates	1600'	Grayburg	2850 '
Seven Rivers	2000'	San Andres	3300 '

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

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

Both strings of casings will be satisfactorily tested to 1000 psi.

- 5. <u>PRESSURE CONTROL EQUIPMENT</u>: Install a 2M, Series 900, 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 diagramatic sketch of the BOP equipment.
- 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. <u>AUXILIARY EQUIPMENT</u>: 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

- 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.5 Max Friess MA 1270'FNL 100'FEL Sec.30-17S-31E Eddy County, N.M.

LC-065014

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 4.6 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 4.9 miles. Go south on lease road for 0.8 mile. Turn west on south side of tank battery and go 0.25 mile to drillsite.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 1400' long and about 20' wide.
- B. <u>Surfacing Material</u>: The new road and well pad will be surfaced with 6" of caliche.
- C. Maximum Grade: Less than 2%
- 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. <u>Culverts</u>: None necessary

- G. <u>Cuts and Fills</u>: Construction of the drill pad will require about 2' cut on the east side and 2' of fill on the west side. Surface soil will be stock-piled on the north edge of the location for use in rehabilitating the disturbed area.
- H. Gates, Cattle Guards: None necessary
- I. <u>Right-of-Way</u>: A Public land Right-of-Way is requested for the off-lease portion of the access road. The R-O-W will start at the Turner "B" battery in the NW/4 Sec.29 and go 1300' west to lease NM-065014.
- 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. <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 3' sand dunes. Dry arroyos are located on the north and south sides of the drillsite.
- B. <u>Soil</u>: The surface soil is fine sand with caliche and chert inclusions.

- C. Flora and Fauna: Vegetation consists of mesquite, sagebrush, yucca, and various weeds and grasses. Ground cover is about 10%. 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 a pre-historic site is located 100' west of the drill center. A north-south fence will be constructed to protect this site.
- G. Land Use: The surface is used for cattle grazing.
- H. Surface Ownership: The drillsite and 100' of access road are located on State surface. 1300' of access road is located on off-lease Federal surface. The grazing lessee for all of the disturbed area 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.

October 26, 1990 Date:

Jury M.

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

LC-065014



LC-065014



LEASE AND WELL MAP

Exhibit B

LC-065014



DRILL PAD LAYOUT EXHIBIT C

LC-065014





BOP DIAGRAM

2000# Working Pressure Rams Operated Daily