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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 invisidiction.

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

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Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I 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 68210

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

# WELL LOCATION AND ACREAGE DEDICATION PLAT

# All Distances must be from the outer boundaries of the section

Operator		) GAS COmpany	Lease				Well No.	
		· · · · ·		NE SOUTH "			1	
Unit Letter K	Section 11	Township 24 SOUTH	Range	31 EAST		County	EDDY	
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		UTH line and	1980		feet from	the WES	line	
Ground Level Elev 3528.3			Pool				Dedicated Acreage:	
	Delay			<u>gnated</u>			40 Acres	
	<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> </ol>							
unitization, f	orce-pooling, etc.?				of all owners	s been consoli	idated by communitization,	
Yes	∐ No	If answer is "yes" type						
this form necess	ary	nd tract descriptions which						
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# DRILLING PROGRAM

Enron Oil & Gas Company Dune South 11 Federal No. 1 1980' FSL & 1980' FWL Sec. 11, T24S, R31E Eddy County, New Mexico

1. <u>Geologic Name of Surface Formation:</u>

Permian

2. Estmated Tops of Important Geologic Markers:

Rustler	880'
Base Salt	4260'
Top Delaware	4420'
Top Delaware Sands	י 4475
Bone Spring	8260'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Upper Permian Sands	Above 200'	Fresh Water
Delaware	4475'	Oil
Bone Spring	8260'	Oil and Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 11-3/4" casing at 600' and circulating cement back to surface, and 8-5/8" casing will be set at 4420' with cement circulating back to surface.

#### 4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD csq</u>	<u>Weight Grade Jt. Cond. Type</u>
14-3/4	0- 600'	11-3/4	42# H-40 A ST&C
11	0- 4420'	8-5/8	32# J-55 LT&C
7-5/8	0- 8450'	5-1/2	17# J-55 LT&C

#### <u>Cementing Program:</u>

11-3/4" Surface casing:	Cement to surface with 275 sx of Class C + 2% CaCl2 + 1/4#/sx flocele.
8-5/8" Intermediate:	Cement to surface with 425 sx of Premium Plus lite + 15#/sx salt + 1/4#/sx Flocele and 300 sx Cl C + 2% CaCl2
5-1/2" Prod casing:	Cement with 350 sx 50/50 Cl H/Poz + 0.8% Halad 9 + 1/4#/sx Flocele. This cement slurry is designed

to bring TOC to 3500'.

# 5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 psi WP) preventer and an annular preventer (3000 psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All will be installed on the 11-3/4" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 psi and the annular to 70% of rated working pressure (2100 psi).

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 4" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety 2valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

ENRON OIL & GAS COMPANY Dune South "11" Federal No. 1





EXHIBIT "1"

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Attachment to Exhibit #1 ENRON OIL & GAS COMPANY Dune South "11" Federal No. 1

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 3000 psi W.P. minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi W.P. minimum.
- 6. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on kelly.
- 9. Extension wrenches and hand wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

# 6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCl mud system. The applicable depths and properties of this system are as follows:

<u>Depth</u> 0-600' 600'-4420' 4420'-TD	<u>Type</u> Fresh water (spud) Brine water Cut Brine & polymer/KCL	Weight (ppg) 8.5 10.0 8.8-9.2	Viscosity (sec) 40-45 30 28	Waterloss (cc) N.C. N.C. N.C. N.C.
	polymer/KCL			

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

- 7. Auxiliary Well Control and Monitoring Equipment:
  - (A) A kelly cock will be kept in the drill string at all times.
  - (B) A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
  - (C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 2000' to TD.

# 8. Logging, Testing and Coring Program:

- (A) The electric logging program will consist of GR-Dual Induction and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron ran from intermediate casing to surface.
- (B) Possible side wall cores based on shows.

# 9. Abnormal Conditions, Pressures, Temperaturs, & Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 135 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3100 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

#### Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date is unknown at the present time. Once drilling has commenced, the drilling operation should be finished in approximately 45 days. If the well is productive, an additional 30 to 45 days will be required for completion and testing before a decision is made to install permanent facilities.

#### SURFACE USE AND OPERATIONS PLAN

#### 1. Existing Roads:

Access to location will be made as shown on attached Topographic map.

Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

## 2. Proposed Access Road:

Exhibit #2 shows the 1100 feet of new access road to be constructed. Proposed road will measure 50' in width. Surface material will consist of six (6) inches of caliche, water compacted and graded with a minimum grade of 3 percent. Drainage will have a drop of 6 inches from the center line on each side.

No turnouts are planned.

No culverts, cattleguards, gates, low-water crossings, or fence cuts are necessary.

Surfacing material will consist of native caliche to be obtained from the nearest BLM-approved caliche pit. Any additional materials required will be purchased from the dirt contractor.

3. Location of Existing Wells:

Exhibit #3 shows all existing wells within a one-mile radius of this well.

#### 4. Location of Existing and/or Proposed Facilities:

There are no existing production facilities. If production is encountered a temporary facility will be established on the drill pad, and if warranted a production facility would be built at a later date in the immediate area of the drill-pad location. If the well is productive, the flowline would also be located on the drill-pad site and no additional disturbance will occur.

# LOCAT ON VERIFICATION I AP



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# Attachment to Exhibit # 3

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# STATUS OF WELLS WITHIN ONE-MILE RADIUS

DUNE SOUTH "11" FEDERAL #1 1980" FSL & 1980" FWL Sec.11,T24S,R31E Eddy County, New Mexico

Section 3, T24S,R31E:	_			
D & A :				
Max M. Wilson	#1-Federal-Jennings 660"FSL & 660"FELL			
Section 11, T24S, R31E				
WDW :				
Bettis-Boyle-Stovall	WD #1-Littlefield Fed. 660"FNL& 1980"FEL			
Bran Oil Company	#1-Bran-Bettis Fed.660"FSL & 660" FEL			

4

#### 5. LOCATION AND TYPE OF WATER SUPPLY:

Water for drilling will be purchased from commercial sources and transported to the well site over the roads as shown on Exhibit #2.

#### 6. PLANS FOR RESTORATION OF THE SURFACE:

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current Federal laws and regulations. Location will be cleaned, and the well pad removed to promote vegetation. Reseeding will be as per BLM specifications.

#### 7. METHODS OF HANDLING WASTE DISPOSAL:

A small reserve pit will be utilized. Reserve pit will be evacuated of drilling fluid within 10 days after the well is completed.

Drill cuttings will be encapsulated in plastic and buried 2' below ground level.

Water produced during tests and waste water will be saved and hauled to a disposal well. Oil produced during tests will be in test tanks until sold.

Current laws and regulations pertaining to the disposal of human waste will be complied with. Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

#### 8. ANCILLARY FACILITIES:

No airstrip, campsite, or other facilities will be built.

# 9. WELL SITE LAYOUT:

Exhibit #4 shows the relative location and dimensions of the well pad, steel mud pits, burial pits and location of major rig components. Pad area has been staked and flagged.

Only minor leveling of the well site will be required.

# 10. OTHER INFORMATION:

The area around the well site is grassland and the top soil is duned and sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.

There is no permanent or live water in the immediate area.

Copy of cultural resources examination completed by Archaeology Survey Consultants is attached.

#### 11. OPERATORS REPRESENTATIVE:

The field representative responsible for assuring compliance with the approved surface-use and operations plan is as follows:

Mr. Dewey Smeltzer	Phones:	Business	-	1-915/686-3601
4806 Rustic Tr		Home	-	1-915/520-9608



## 12. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspection the proposed drill site 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; and that the work associated with the operations proposed herein will be performed by Enron Oil & Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Rfl Ray L. Ingle

Ray L. Ingle Operations Manager

Date: 20 Aug 93