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

Form C-102 Revised 1-1-89

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Le	ase				Well No.	11
operator	MER	T ENERGY	COMPANY			MM FE				
Unit Letter	Sect		Township	1	nge	26 EAST	NMPM	County	CHAVES	
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3. If more the	n one	pooling, etc.	erent ownership is d ?	ledicated to th	Le wen, Likv		•••••••••••••••••••••••••••••••••••••••		•	
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otherwise) or	until	non-stand	ard unit, eliminati	ng such inter	est, has b	een approved	by the Divisi			
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APPLICATION FOR DRILLING

MERIT ENERGY COMPANY MM Federal. Well No. 11 2310' FSL & 660' FWL. Sec. 30-T9S-R26E Chaves County, New Mexico Lease No.: NM-0559993 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well. Merit Energy Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

San Andres	730'
Glorieta	1810'
Yeso	1880'
Abo	4050'
T .D.	4800'

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Random fresh water sands from surface to - 300'+/-.

Oil: None expected.

Gas: Possible in the Abo below 4050'.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None, unless warranted

Logging: T.D. to surface casing: CNL-LDT, and DLL w/selected RXO. T.D. to surface: GR-CNL.

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 1200 psi with 120°.

H₂S: None expected. None in the previously drilled wells in vicinity.

Anticipated starting date: December 18, 1992.
Anticipated completion of drilling operations: Approximately 30 days.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

MERIT ENERGY COMPANY MM Federal. Well No. 11 2310' FSL & 660' FWL. Sec. 30-T9S-R26E Chaves County, New Mexico Lease No.: NM-0559993 (Development Well)

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, to be followed in rehabilitating the surface environmental effects associated with the operations.

- 1. EXISTING ROADS:
 - A. Exhibit "A" is a portion of a BLM Roswell Quadrangle map showing the location of the proposed well as staked, in relation to existing roads and highway. The well site location is approximately 18 road miles northeast of Roswell, New Mexico. Traveling east from Roswell, there will be approximately 10 miles of paved U.S. Highway 380 and 8 miles of gravel ranch/oilfield roads.
 - B. Directions: Travel East from Roswell, NM on U.S. Highway 380 for 10 miles to the Bottomless Lakes turnoff. Turn north toward the National Guard building on Chaves County road No. 61. Continue past the National Guard for a total of 6 miles from the highway to a "Y" in the road, .75 mile past the cattle guard east of the McCrea windmill. Turn right (northeast) at the "Y" and continue NE for 1.5 miles to the turnoff west to the MM Fed. #9 well site, which is .4 mile west of this turnoff. The start of the proposed access road is staked on the southwest corner of this pad and will run southwest for 1000 feet to the east side of the staked location.
- 2. PLANNED ACCESS ROAD:
 - A. Length and Width: There will be approximately 1000 feet of new access road 12 feet wide (24' Max.), which is color coded red on Exhibit "B".
 - B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche. The surface will be properly drained to handle the 1.7% slope.
 - C. Turnouts: None required.
 - D. Culverts: None required. A low water crossing will be used to cross ditch created with berm on the north and east side of the well site.
 - E. Cuts and Fills: None required.
 - F. Gates, Cattleguards: None required.
 - G. Off Lease R/W: None required.
 - H. Existing Roads: To be maintained in as good or better condition.
- 3. LOCATION OF EXISTING WELLS:
 - A. Existing wells within a two mile radius are shown on Exhibit "C".

Merit Energy Company MM Federal, Well No. 11 Page 2

- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;
 - A. There are production facilities on the lease at this time.
 - B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, if required, will be installed on the drilling pad. A 2 3/8" gas pipeline will be buried a maximum of 24" beside the proposed access road to an existing pipeline at the MM Fed. #9 well site.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads. The water will be obtained from a well belonging to Bill Tiner in NE4NE4NE4 Sec. 14-T11S-R26E
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Caliche for surfacing the proposed access road and well site pad will be obtained, as needed, from a private surface and mineral pit in the NE%NE% of Section 30-T9S-R26E. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Drill cuttings will be disposed of in the reserve/mud pit.
 - B. Drilling fluids will be allowed to evaporate in the reserve/mud pit until the pit is dry.
 - C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
 - D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
 - E. Oil produced during operations will be stored in tanks until sold.
 - F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering and will be removed for deposit in an approved sanitary land fill within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

Merit Energy Company MM Federal, Well No. 11 Page 3

- 9. WELL SITE LAYOUT:
 - A. Exhibit "D" shows the relative location and dimensions of the well pad, waste pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
 - B. Mat Size: Maximum size: 260' X 185' plus 50' X 100' reserve pit, which will be cut 4 feet below surface level on the north side of pad. There will be a drainage berm on the north and east side of the pad. See Exhibit "D".
 - C. Cut & Fill: A 1 1.5 foot cut on the north with fill to the south will be required.
 - D. The surface will be topped with compacted caliche.
- 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 well site in an aesthetically pleasing a condition as possible.
 - B. Any unguarded pits containing fluids will be fenced and screened until they are filled.
 - C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as the pits are dry enough to work.
- 11. OTHER INFORMATION:
 - A. Topography: The proposed well site and access road are located in the upland drainage areas east of the Pecos River, which is 2.5 miles to the west. The location and road are on a southwesterly slope of 1.7% with a location elevation of 3692.3' G.L.
 - B. Soil: The topsoil at the well site is a tan colored sandy loam with considerable scattered gravel. The soil is part of the Hollomex-Reeves-Milner complex series.
 - C. Flora and Fauna: The vegetation cover is a fair to poor grass cover of three-awn, dropseed, grama, fluffgrass along with plants of mesquite, yucca, fourwing saltbush, creosote bush, cacti, broomweed, thistle and miscellaneous weeds and wildflowers. The wildlife consists of antelope, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
 - D. Ponds and Streams: The Pecos River and Bitter Lakes Refuge are 2.5 3 miles to the west.
 - E. Residences and Other Structures: The David McCrea ranch house is 1.6 mile southwest of the location.
 - F. Land Use: Cattle grazing.

Merit Energy Company MM Federal, Well No. 11 Page 4

11. OTHER INFORMATION; cont.....

- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.
- H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey was conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report will be submitted to the appropriate government agencies.
- 12. OPERATOR'S REPRESENTATIVE:
 - A. The field representative for assuring compliance with the approved surface use and operations plan is as follows:

Mark Hamilton Merit Energy Company P. O. Drawer 8249 Roswell, New Mexico 88202 Home Phone: (505) 622-9062 Mobile Phone: (505) 625-6135

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Merit Energy Company and its contractors and subcontractors 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.

December 1, 1992

George R. Śmith Agent for: Merit Energy Company







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BLOWOUT PREVENTOR ARRANGEMENT

:

2M SYSTEM

10" SHAFFER TYPE "E", 3000 psi WP -80 GALLON, 4 STATION KOOMEY ACCUMULATOR 3000 psi WP CHOKE MANIFOLD



MM Federal, Well No. 11 BOP Specifications