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*See Instructions On Reverse Side

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.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

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OIL CONSERVATION DIVIS ON P, O, DOX 2088

Form C-102 Revised 10-1-79

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# JOHN D. JA( SS CONSULTING ENGINEER Suite 327 J.P. White Building ROSWELL, NEW MEXICO 88201 (505) 622-8866

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#### PERTINENT INFORMATION

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For

McKAY OIL CORPORATION McKay Federal No. 4 SW/4SW/4 Sec. 27-5S-21E Chaves County, N. M.

LOCATED: 32 air miles north of Roswell, New Mexico LEASE NUMBER: NM 36189 LEASE ISSUED: May 1, 1981 **RECORD LESSEE:** McKay Oil Corporation McKay Children's Trust BOND COVERAGE: Lessee's \$25,000.00 Statewide ACRES IN LEASE: 1,800.00 SURFACE OWNERSHIP: Private OWNER: Bud Epper POOL RULES: General Statewide Rules EXHIBITS: A. Road and Well Map B. Contour Map C. Rig Layout D. BOP Diagram

- E. Lease Map
- F. Location Topography

#### SUPPLEMENTAL DRILLING DATA

McKAY OIL CORPORATION McKay Federal #4 SW¼SW¼ Sec. 27-5S-21E Chaves County, N.M.

#### NM-36189

The following items supplement Form 9-331C in accordance with instructions contained in 'Onshore Oil & Gas Order' No. 1:

- 1. SURFACE FORMATION: Alluvium
- 2. <u>ESTIMATED TOPS OF GEOLOGIC MARKERS</u>: Yeso - 786' Tubb - 2346' Abo - 3046'
- 3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION: Fresh water - In surface formations above 600' Gas - In Abo formation below 3050 '
- 4. PROPOSED CASING PROGRAM: See Form 9-331C
- 5. <u>PRESSURE CONTROL EQUIPMENT</u>: Blowout preventer stack will consist of at least a double-ram blowout preventer rated to 3000# WP. A sketch of the BOP is attached.
- 6. CIRCULATING MEDIUM:

0'- 700' Lime and gel, spud mud, viscosity 32 to 34 seconds. 650 - 2950' Fresh water 2950'- TD Start mudding up at 3730'; viscosity 36 to 38 seconds; water loss 10 cc or less; 3-5% Diesel; 2 KCL Mud additives will be used to control water loss.

- 7. <u>AUXILIARY EQUIPMENT:</u> full-opening kelly cock, to fit the drill string in use, will be kept on the rig floor at all times.
- 8. PROPOSED TESTING, LOGGING AND CORING PROGRAMS:

Samples: Catch samples from surface to TD

Logging: GR-CNL, Dual-Lateral MSFL from surface to TD. Coring : None

- 9. ABNORMAL PRESSURES OR TEMPERATURE ZONES: None anticipated
- 10. ANTICIPATED STARTING DATE: December 31, 1990. Drilling should be completed within 60 days. Completion will follow drilling opertation.

#### SURFACE USE AND OPERATION PLAN

MCKAY OIL CORPORATION MCKay Federal #4 SW/4 SW/4, Sec. 27, T5S, R21E Chaves County, New Mexico NM-36189

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 commpletion 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' is a portion of a road map showing the location of the proposed well as staked</u>. The well is approximately 33 miles Northeast of Roswell, New Mexico.
  - B. <u>Directions:</u> Heading north out of Roswell, New Mexico on U.S. 285 for approximately 24 Miles. Turn left on dirt road. Go approximately 8 miles west, then turn 90 degrees north for 3 miles. Then turn north again at three road junction and go 1/2 mile to entrance of Eppers ranch, then turn east (after cattleguard, go 3/4 miles to McKay Fed. #1, then north to McKay Fed. #2, then north to Eppers Fed. #2, then north to McKay Fed. #4(Off Macho Draw).
- 2. PLANNED ACCESS ROADS:
  - A. Length and Width: The new access road will be 14' wide by approximately 1/2 mile in length.
  - B. <u>Surfacing Materials</u>: Sand and gravel or caliche will be placed where necessary. After determined that well is producer.
  - C. Turnouts: One every 1/4 mile.
  - D. <u>Maximum Grade</u>: Less than 13%
  - E. Drainage Design: Culverts will be placed where requested by BLM.

-1-

- F. <u>Culverts</u>: Where required.
- G. Cut and Fills: Less than 10' on location.
- H. Gates, Cattleguards: None necessary.
- I. Top Soil: Will be stockpiled for reclamation purposes.

### 3. LOCATION OF EXISTING WELLS:

A. A map displaying the location of adjacent wells is attached.

## 4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:

- A. <u>See Exhibit 'A</u>'for location of existing lease wells. If the well is commercial, production facilities will be constructed on the well pad of Eppers Federal #2.
- B. <u>Cuts and Fills</u>: Less than 10' of cut and fill will be required on the well pad.
- C. <u>Top Soil</u>: Any top soil which can sustain plant life will be bladed and stockpiled for future rehabilitation.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
  - A. Water will be trucked to the wellsite from a nearby commercial source and transported over existing and proposed access roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
  - A. Caliche will be obtained from a pit located in the SW/4SW/4 of Section 33, T-5S, R-21E.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
  - A. Drill cuttings will be disposed of in the reserve pits.
  - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
  - C. Water produced during tests will be disposed in the reserve pits.
  - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
  - E. All trash and junk will be buried in a separate pit and covered with a minimum of 24 inches of dirt. All waste will be contained by a netted container to prevent scattering by the wind.

- F. All trash and debris will be buried or removed from the wellsite within 30 days after drilling and/or completion operations.
- 8. ANCILLARY FACILITIES:

A. None necessary.

- 9. WELL SITE LAYOUT:
  - A. Exhibit 'C' displays the dimensions of the well pad, mud pits, and major rig equipment.
  - B. The reserve pits will be lined with plastic to prevent loss of water.
- 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 location cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until dry.
  - C. If well is non-productive or abandoned, the disturbed area will be rehabilitated to BLM requirements.

### 11. OTHER INFORMATION:

- A. <u>Topography</u>: The topography is rolling hills with numerous drainag into Arroyo del Macho. Regional dip is to the southeast toward th pecos river.
- B. Soil: Sandy loam with limestone outcroppings.
- C. <u>Vegetation</u>: The flora consist of typical desert vegetation, such as yucca, cactus and various grasses. Fauna consist of desert wildlife such as coyotes, rodents, snakes, deer and antelope.
- D. Ponds or Streams: The macho draw is 300 yards from location.
- E. <u>Residences and Other Structures</u>: Bud Eppers ranch house is locat approximately 1 mile to the northwest.

- F. <u>Archaeology</u>: No cultural sites were observed on the access roads or well pad. Survey conducted by ASC-Roswell, 12/15/90.
- G. Land Use: Grazing.
- H. Surface Ownership: private
- 12. OPERATOR'S REPRESENTATIVE:

Gary Richburg (505)625-1149

13. CERTIFICATION:

I hereby certify that I, or persons 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 MCKAY OIL CORPORATION and its subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to provisions of 18 USC 1001 for the filing of a false statement.

DATE

Sam 1. Shackelford Agent



MCKAY OIL CORPORATION McKay Federal #4 SW/4 SW/4, Sec. 27, T5S, R21E MCKAY OIL CORPORATION McKay Federal #4 SW/4 SW/4, Sec. 27, T5S, R21E Chaves County, New Mexico NM-36189



MCKAY OIL CORPORATION McKay Federal #4 SW/4 SW/4, Sec. 27, T5S, R21E Chaves County, New Mexico NM-36189

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### RIG LAYOUT

- 1. Substructure
- 2. Catwalk
- 3. Pipe Rack
- 4. Doghouse
- 5. Mud Pits
- 6. Mud Pumps

- 7. Water Tank
- 8. Light Plant
  9. Reserve Pit
- 10. Trash Pit
- 11. Trailer House
- 12. Production Facilities



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