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*See Instructions On Reverse Side

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APPLICATION TO DRILL WOODBINE PETROLEUM, INC. HADSON FEDERAL #4

1650' FSL & 990' FEL SECTION 11, T19S, R31E EDDY COUNTY, NEW MEXICO

In conjunction with Form 3160-3, Application for Permit to Drill, Woodbine Petroleum, Inc. submits the following ten items of pertinent information to drill the subject well in accordance with Bureau of Land Management requirements.

1. The geologic surface formation is cretaceous.

2. The estimated tops of geologic markers are:

Anhydrite	650'
	2192'
Yates	2388'
	Anhydrite Tansill Yates

- 4. Seven Rivers 2598'
- 3. The estimated depths at which water, oil or gas-bearing formation are expected:

Water: 300' Oil and Gas: 2388'-2800' Yates and Seven Rivers

4. Proposed casing program: See Form 3160-3

- 5. Pressure control equipment: See Exhibit E
- 6. Mud Program: See Exhibit F
- 7. Anticipated bottom-hole pressure: No abnormal pressures are expected. Hydrogen sulphide gas may be encountered in the Capitan Reef, although none is expected. Appropriate safety precautions will be taken.
- 8. Testing, Logging and coring programs:

Drill Stem tests: No DST's anticipated to be taken

Logging: Mud loggers will be used from 2300' to TD Wireline Logging program: Compensated neutron, formation density, dual laterolog, gamma ray, caliper, microlog

9. Anticipated starting date: As soon as possible.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

WOODBINE PETROLEUM, INC. HADSON FEDERAL #4 1650' FSL & 990' FEL SECTION 11, T19S, R31E EDDY COUNTY, NEW MEXICO

This plan is submitted with Form 3160-3, application for permit to drill, covering the above described well. The purpose of this 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 operations so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS

A. Reduced section of a USGS topographic map showing existing lease roads and location. The scale is one inch equals 3,000 feet.

DIRECTIONS:

- 1. Proceed west from Hobbs on US 62-180 for 36 miles.
- Turn right on (north) on State Highway 176 and continue for 4.2 miles.
- 3. Turn right (north) on county road 126A and continue 4.5 miles and turn left (west) go approximately 2 miles then north approximately one mile to the location.
- 2. PLANNED ACCESS ROAD

A. See Item 1.

- 3. LOCATION OF EXISTING WELLS
 - A. The locations of existing active wells located in and immediately adjacent to Section 11 are highlighted on Exhibit "C".
- 4. LOCATION OF EXISTING AND PROPOSED FACILITIES
 - A. There are two producing wells on this lease, the Hadson Federal #1, located 2180' FEL and 760' FSL and the Hadson Federal #2 located 1650' FSL & 2180' FEL, Section 11 T19S R31E, Eddy County, New Mexico.
- 5. LOCATION AND TYPE OF WATER SUPPLY

- A. It is planned to drill the proposed well with a cut-brine water system. The water will be obtained from commercial sources and will be hauled to location by truck over existing and proposed lease roads marked on Exhibit "B".
- 6. SOURCES OF CONSTRUCTION MATERIALS
 - A. Caliche required for construction of the location pad and access road will be obtained from caliche on the location.
- 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 operations will be collected at the tank battery and pumped to an approved disposal system.
 - D. Oil produced during operations will be stored at the existing battery and sold through transport trucks.
 - E. Current regulations pertaining to disposal of human waste will be complied with.
 - F. 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.
 - G. All trash and debris will be buried or removed from the well site within 30 days after drilling and/or completion operations are terminated.
- 8. ANCILLARY FACILITIES

A. No ancillary facilities will be required for this well.

- 9. WELLSITE LAYOUT
 - A. Exhibit "D" shows the dimensions of the well pad and reserve pits and the location of major rig components.
 - B. The ground surface at the drilling location is essentially flat.
 - C. The reserve pits will be plastic lined.
 - D. The pad and pit area has been staked and flagged.
- 10. PLANS FOR RESTORATION OF THE SURFACE

- A. After finishing drillig and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.
- 11. TOPOGRAPHY
 - A. The well site and access route are located in a flat area with little relief.
 - B. The top soil at the wellsite is caliche.
 - C. The vegetation cover at the wellsite is moderately sparse, with mesquite, grasses, yucca, scrub oak and weeds.
 - D. No wildlife was observed but it is likely that rabbits, lizards, insects and rodents traverse the area. The area is used for cattle grazing.
 - E. There are no ponds, lakes, streams, or rivers within several miles of the wellsite.
 - F. The wellsite is located on federal surface.
 - G. There is no evidence of any archaeological, historical or cultural sites in the vicinity of the location.
- 12. OPERATOR'S REPRESENTATIVES
 - A. The field representatives responsible for assuring compliance with the approved surface use plan are:

Don G. Shackelford Executive Vice President Woodbine Petroleum, Inc. 1445 Ross Avenue Suite 3660, LB 234 Dallas, Texas 75202 Phone: (214) 855-6263 (office) (214) 492-5754 (home)

.

Douglas R. Evans President Woodbine Petroleum, inc. 1445 Ross Avenue Suite 3660, LB 234 Dallas, Texas 75202 Phone: (214) 855-6263 (office) (214) 522-0272 (home)

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; and that the work associated with the operations proposed herein will be performed by Woodbine Petroleum, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

lipit 10, 1941 _____

By:

Don G. Shackelford Executive Vice President



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EXHIBIT D

EXHIBIT "F"

DRILLING PROGNOSIS HADSON FEDERAL #4

LOCATION: 1,650' FSL & 990 FEL T19S R31E, Eddy County, New Mexico

PROPOSED DEPTH 3,800' Yates and Seven Rivers Test

CASING PROGRAM: Surface: 8 5/8" 24# J-55 set at 650' in an 12 1/4" hole

> Production: 5 1/2" 15.50# J-55 from surface to 3,800'. Sufficient cement will be used to bring the top of cement up 100' feet into surface casing

- LOGGING PROGRAM: A compensated neutron/formation density, with gamma ray, and caliper. A dual laterolog will be run for water saturation analysis. All logs will be run from the TD to the base of surface casing.
- MUD LOGGING: Samples will be taken every 10 feet from 2,300 feet to TD.

MUD PROGRAM:

AND OBJECTIVE:

- 0 650' Spud 12 1/4" hole with fresh water containing gel and lime, if necessary for hole cleaning. Mud weight should be 8.5 - 8.7 lb/gal with a viscosity of 33-35 sec/1000 cc.
- 650' 3,800' Drill out below surface pipe using 7 7/8" bit with 10 lb/gal brine for drilling the native salt section. Lime will be added to maintain a ph of 9.5 - 10.0 partial or total lost circulation is expected in the top of the Capitan Reef at + 2,850 feet. If total loss does occur, the remainder of the hole will be dry drilled with sweeps to 3,800 feet.

SURFACE PIPE - 650 FT OF 12 1/4" HOLE:

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Attempt to circulate 315 sxs. with Class "C" cement and 2% CACL and 1/4 lb/sack of cellophane flakes a "Texas" pattern guide shoe and insert float valve will be run, along with 3 centralizers on bottom 300 feet of string. Thread socking compound should be used on bottom two joints of casing.

PRODUCTION CASING - 3,800 FT OF 5 1/2" IN 7 7/8" HOLE:

Production casing will be cemented with 1620 sxs. Class "C" with 5 lb/sack salt and some fluid loss additive. Cement will be brought up 100' from base of surface casing.

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ARCHAEOLOGICAL SURVEY CONSULTANTS P.O. Drawer D Roswell, New Mexico 88202 Phone: 505-623-5012



WOODBINE PETROLEUM, INC.

Hadson Fed. Well # 4 & Access Road R/W

ASC Job 91-45 Date: 4/01/1991

Don Shackleford Woodbine Petroleum, Inc. 1445 Ross Avenue, Suite 3660 Dallas, Texas 75202

Dear Mr. Shackleford:

Enclosed please find ASC Report 91-45, covering the archaeological survey of the Woodbine Petroleum, Inc., Hadson Federal Well No. 4, and a 150 ft. wide combined access road/powwerlime R/W. The survey was requested by your agent, Wilbur Shackleford, in compliance with relevant federal regulations. In passing, originally the surveyors had staked the location at 1650 FSL, 1990 FEL; a radiophone conversation with Wilbur led to re-staking the location at 1650 FSL, 990 FEL.

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Since no significant archaeological materials were found, we have recommended archaeological clearance for the well pad and combined access road/powerline R/W. Copies of the report have been distributed as per the list on the title page, and you need not concern yourself with distribution to those agencies.

Also enclosed, please find ASC Invoice 91-45, for performance of the survey.

We are pleased to have been of service with this project, and hope to assist you in the future. Should you have questions concerning the project, please call our office.

•

Sincerely,

D. M. Griffiths.

D.M. Griffiths Principal Investigator

enclosure: report (1); invoice (1)

cc: ASC File 91-45 (1)

ARCHAEOLOGICAL SURVEY of the WOODBINE PETROLEUM, INC. HADSON FEDERAL WELL NO. 4 & COMBINED ACCESS ROAD/POWERLINE R/W T195, R31E, SECTION 11, NEWSEW [1650 FSL, 990 FEL]. EDDY COUNTY, NEW MEXICO

FEDERAL LAND SURFACE [USGS 7.5', GREENWOOD LAKE, N.M., 1985]

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ASC Report 91-45

by James V. Sciscenti, Project Archaeologist

ARCHAEOLOGICAL SURVEY CONSULTANTS P.O. Drawer D, Roswell, New Mexico 88202 [505] 623-5012

PERMIT ND.: 18-2920-90-E

.

March 28, 1991

Prepared for:

Woodbine Petroleum, Inc. 1445 Ross Avenue, Suite 3660 Dallas, Texas 75202

Attention: Don Shackleford

Distribution:

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Woodbine Petroleum, Inc. (1) Wilbur Shackleford (1) BLM - Carlsbad Resource Area (2) New Mexico SHPO (1) Sciscenti (1)

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ARCHAEOLOGICAL SURVEY CONSULTANTS

CULTURAL RESOURCES EXAMINATION

on lands administered by the Department of the Interior Bureau of Land Management Roswell District, New Mexico ASC PERMIT ND.: 18-2920-90-E ASC Job No.: 91-45; Woodbine Petroleum, Inc., Hadson Fed. Well No. 4 & Access Road R/W

1. ABSTRACT: intensive archaeological survey of the Woodbine Petroleum, Inc., Hadson Federal Well No. 4 (660 ft. square, 10 acres), and comminmed access road/goowerline R/W (660 ft. long x 150 ft. wide, 2.27 acres); a total federal lamb surface of 12.27 acres was inspected for cultural remains. A NS trending, sub-surface pipeline is ca. 175 ft. west of the well centre.

Archaeological survey did most reveal any cultural resources. Therefore, archaeological CLEARANCE for the Woodbine Petroleum, Inc., Hadson Federal Well No. 4, and combined access road/powerline R/W, is RECOMMENDED.

2. WELL PAD LOCATION: T195, R31E, Section 11, NE4SE4 [1650 FSL, 990 FEL]. ACCESS ROAD / PO-WERLINE R/W LOCATION: T195, R31E, Section 11, NW4SE4. Eddy County, New Mexico.

Map Reference: U.S.G.S. 7.5 minute series, GREENWOOD LAKE, NEW MEXICO, 1985. Land Status: BLM, Roswell District/Carlsbad Resource Area, New Mexico.

3. PROJECT DESCRIPTION: well pad (660 ft. square, 10 acres), and combined access road/ powerline R/W (660 ft. long x 150 ft. wide, 2.27 acres); a total federal land surface of 12.27 acres was inspected for cultural remains.

TOPOSTAPTY: Mescalero Pediment, Querecho Plains, in an expanse of relatively level terrain with low relief, which slopes to the south/southwest towards the Nimenim Ridge escarphent; the project area is within the drainage of Hackberry Lake, ca. 5.7 miles SW. The area is marked by shallow soils directly overlaying indurated caliche, with a high surface visibility; there is a slight slope to the S/SW, with the SW corner some 7 ft. lower in elevation than the NE corner of the well pad. Smils: Simona-Bippus complex. Permanent Water: Laguna Plata, ca. 7.0 miles SE. Potential Water: Greenwood Lake, ca. 1.0 miles E/SE. Elevation: 3581 ft. to 3595 ft. Slope: 0.3° to 1.9°. Aspect: S/SW. Lithic Resources: not available in immediate project area. Wegetatiom: Grassland Formation, scrub-grass scrub disclimax community.

4. EXAMINATION PRODEDURE: straight and zig-zag transects, spaced no greater than 15 metres apart. Nork Hours on Growmd: Ca. 2.5. Project Delimeation: staked by client representative. Visibility: ground, ca. 65%, with 100% in deflation basins; weather, sunny.

5. FINDINES: BLM records [Ruebelmann, 3/04/91] indicate prior recording of NM-06-4307 in Section 11 (T195, R31E); the site will not be endangered by construction activity.

Archaeological survey did not reveal any cultural resources.

6. RECOMMENDATIONS: archaeological CLEARMANCE for the Woodbine Petroleum, Inc., Hadson Federal Well No. 4, and commbined access moad/powerline R/W, is RECOMMENDED.

Date of Examination: March 22, 1991

Project Archaeologist:	145
Deinsignal Investigatory	D.m. Griffiths

Principal Investigator: _

