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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 table, fightings of fighting to any statements or representations as to any matter within its jurisdiction.



e Lease - 4 copies : Lease - 3 copies

<u>STRIC</u>	1T			
). Box	1980,	Hobbs,	NM	88240

STRICT II). Drawer DD, Anesia, NM 88210

GLL CONSERVATION DIVISIO P.O. Box 2088

Sania Fe, New Mexico 87504-2088

TR	IT II				

N Rio Brazos Rd., Aziec, NNI 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Read & Stevens, Inc.		West	Haystack	: Federal		5
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tual Foocage Location of Well: 1650 feet from the Nort	h line and	2100		feet fror	west	илс
ound level Elev. Producing Formati		Pool				Dedicated Acreage:
3856 Cisco			Haystack			320 Acres
1. Outline the acreage dedicated to the su	bject well by colored pe	ncil or hachure m	riss on the plat	i below.		317.60
2. If more than one lease is dedicated to	the well, outline each an	d identify the own	ership thereof	(both as to wori	king interest an	d royalty).
3. If more than one lease of different ow unitization, force-pooling, etc.?				eners been cons	colidated by cor	nmunitization,
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APPLICATION FOR DRILLING

READ & STEVENS. INC. West Haystack Federal, Well No. 5 1650' FNL & 2100' FWL, Sec. 19-T6S-R27E Chaves County, New Mexico Lease No.: NM-18970 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well. Read & Stevens, Inc. 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:

Queen	560'	Wolfcamp	4970'
San Andres	990'	Cisco	5580'
Glorieta	2170'	Missippi	6100'
Abo	4260'	T.D.	6400'

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

Water: Surface water between 200' - 400'.

- Gas: Possible in the Abo below 4260'. Possible in the Cisco below 5580'.
- Oil: Possible in the San Andres below 990'.
- 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:

G/R, CNL-LDT, DLL

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 = 2800 psi with a temperature of 115°.
- 10. $H_{o}S$: None encountered in previous wells drilled in the area.
- 11. Anticipated starting date: October 11. 1993. Anticipated completion of drilling operations: Approx. 3 weeks.



MULTI POINT SURFACE USE AND OPERATIONS PLAN

READ & STEVENS. INC. West Haystack Federal, Well No. 5 1650' FNL & 2100' FWL, Sec. 19-T6S-R27E Chaves County, New Mexico Lease No.: NM-18970 (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 USGS/BLM Topo Quad map showing the location of the proposed well as staked. The well site location is approximately 44 road miles northeast of Roswell, New Mexico. Traveling northeast from Roswell on U.S. Highway 70, there will be approximately 25 miles of paved highway: 11 miles of county maintained gravel road and 8 miles of ranch/oilfield roads.
- B. Directions: Travel northeast from Roswell, NM on U.S. Highway 70 for approximately 25 miles from the U.S. Highway 285/70 overpass north of Roswell, turn north .3 mile east of highway marker 363 onto the Olive county road. Continue north for 11 miles, then turn west after crossing cattle guard for 2 miles to the South Van Eaton ranch house. Turn south, circling ranch house, then south for 1 mile and west for 1.4 mile, turning west at fork to the Read & Stevens, Inc., Federal "I" well on Haystack Butte. Continue west past the Federal "I" well for one mile to the West Haystack Fed. Well No. 2 well site: then .3 mile west to the turnoff road to the West Haystack. Fed. Well No. 1. The proposed access road is staked on the north side opposite the No. 1 access road. The proposed access road will run north 1000 feet, then northwest 1700' to the southeast corner of the proposed drill site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed access road will be constructed to a width of 12 feet (24' R/W) and will be approximately 2700 feet in length. The proposed access road is flagged and is color coded red on Exhibit "B".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche and will be properly drained. Repair work will be done on the existing access road from Haystack Butte by grading and topping with caliche as needed and install proper drainage.
- C. Turnouts: One or two may be required, which will increase the road width to 20 feet for passing.
- D. Culverts: A low water crossing will be built on the draw 500 feet SE of the location.
- E. Cuts and Fills: None, except to level 1 to 3 foot sand dunes.
- F. Gates, Cattleguards: One cattleguard will be required.
- G. Off Lease R/W: There is an existing off lease R/W for the existing access road issued for the West Haystack Fed., Well No. 4. See Exhibit "B".



Read & Stevens, Inc. West Haystack Federal, Well No. 5 Page 2

- 3. LOCATION OF EXISTING WELLS:
 - A. Existing wells within a two mile radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;
 - A. There are gas production facilities on the lease at this time at the West Haystack, #1 well site, 660' FSL & 1980' FEL, Sec. 19-T6S-R27E.
 - B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery, if needed, will be installed on the drilling pad.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. It is planned to drill the proposed well with fresh water that will be obtained from a private well at the South Van Eaton Ranch house in the SW%SW% Sec. 11-T6S-r27E and will be transported over the existing and proposed access roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Caliche for surfacing the proposed access road and well site pad will be obtained from a private pit in the SW%SW% of Section 22-T6S-R27E, which is staked and arch. cleared. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except 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 pits.
 - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are 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 by the wind 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.



Read & Stevens, Inc. West Haystack Federal, Well No. 5 Page 3

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
- B. Mat Size: 245' X 180', plus 75' X 100' reserve pits and 20' X 20' stinger.
- C. Cut & Fill: Leveling and filling of 2-3 foot sand dunes will be required.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.
- 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 we 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 within 90 days after abandonment or when dry enough to work.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road is located in an area of hummocky terrain of 2-3 foot sand dunes located 500 feet north of a north fork of the Bosque Draw and 10,000 feet west of Haystack Butte. The location has a slight southwesterly slope of 1-2% from an elevation of 3856'.
- B. Soil: The topsoil at the well site is a reddish brown fine sandy clay loam of the Faskin-Roswell complex soils series.
- C. Flora and Fauna: The vegetation cover is a poor grass cover of three-awn, sand and spike dropseed, grama, bristlegrass, buffalo, muhly and other miscellaneous native grasses along with plants of mesquite, yucca, sage, cacti, fourwing saltbush and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: There is an intermittent stream in the north ford of the Bosque Draw 500 feet to the south.
- E. Residences and Other Structures: The Mark Cooper ranch house is 8000 feet to the southwest.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals



Read & Stevens, Inc. West Haystack Federal, Well No. 5 Page 4

- 11. OTHER INFORMATION; cont....
 - H. There is no evidence of any archaeological, historical or cultural sites on the proposed location or the rerouted road. An archaeological survey has been conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report has been submitted to the appropriate government agencies.
- 12. OPERATOR'S REPRESENTATIVE:
 - A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Carl Little Read & Stevens, Inc. 4129 N. Grimes Hobbs, NM 88240 Office Phone: (505) 623-1996 Home Phone: (505) 392-8777

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 Read & Stevens, Inc. 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.

September 16, 1993

George R. Smith Agent for: Read & Stevens, Inc.







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RIG #301

BLOWOUT PREVENTOR ARRANGEMENT

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



READ & STEVENS, INC. West Haystack Federal, Well No. 5 BOP Specifications

