

Report 78-SJC-016
Permit 75-NM-013

An Archaeological Clearance Survey of
One Proposed Well Location Conducted
for Ladd Petroleum Corporation

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N. M. State University
27 February 1978

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for Ladd Petroleum Corporation

On February 23, 1978, Billy J. Naylor of New Mexico State University's Cultural Resource Management Program, San Juan Campus, conducted an archaeological clearance survey of one proposed well location, at the request of Mr. John Heller for Ladd Petroleum Corporation.

Also present during the inspection were Mr. Heller; Mr. Ray Foster, U. S. Geological Survey; and Mr. Tim Kreager, Bureau of Land Management.

The location is on Bureau of Land Management lands and was investigated under Federal Antiquities permit 75-NM-013, by walking transects over a 300 X 300 foot area.

Proposed Location: #3 - 35 Aztec

Land Status: Bureau of Land Management

Location: 790 feet from the north line and 790 feet from the west line of Section 35, Township 30 North, Range 14 West, N.M.P.M., in San Juan County, New Mexico, (Figure 1).

Access: Next to an existing location; no new access required.

Terrain: On a low ridge in rolling topography.

Soil: Sandy clay with sandstone outcroppings.

Vegetation: Juniper, sagebrush, rabbitbrush, broom snakeweed, narrow leaf yucca, Ephedra, and galleta.

Cultural Resources: One isolated unutilized chert flake.

Recommendations: Clearance is recommended.

R14W

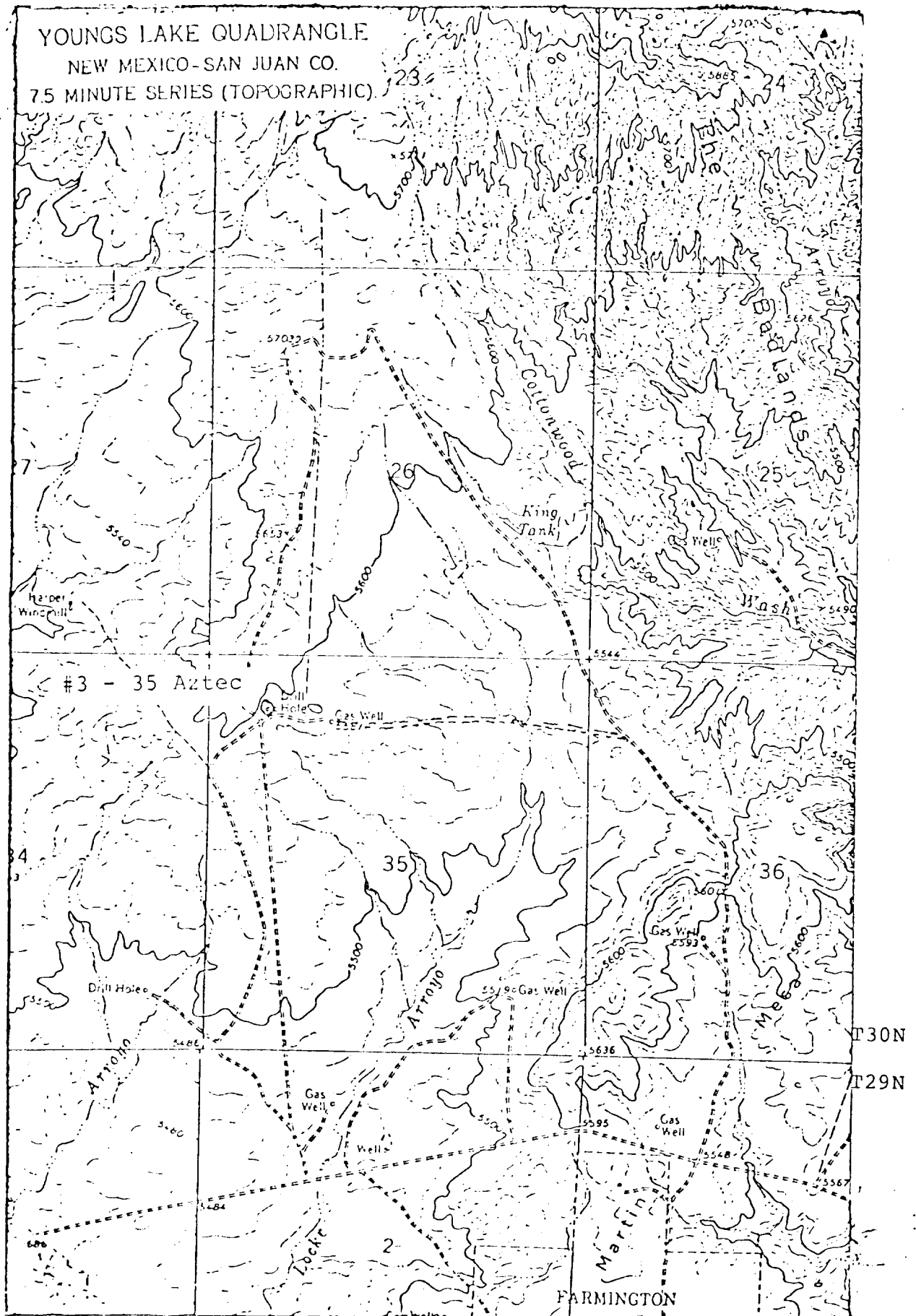


Figure 1

DEVELOPMENT PLAN FOR SURFACE USE:

Ladd Petroleum Corporation
Aztec No. 3-35
NW/4 NW/4 Sec. 35-30N-14W
San Juan Co., New Mexico
160 acre Pictured Cliffs drill unit

1. Existing Roads - See attached Topography Exhibit No. 1
2. Planned Access Roads - Roads in existence. Propose to surface blade and repair existing road as needed.
3. Location of Existing Wells - See Exhibit No. 2
4. Location of Production Facilities - This is a proposed dry gas well. No surface production equipment anticipated.
5. Location and Type of Water Supply - Fresh water will be used for drilling. Plan to haul from San Juan River by truck.
6. Source of Construction Materials - None required
7. Methods of Handling Waste Materials -
 - (a) Cuttings and liquid waste to be contained in a reserve pit.
 - (b) Burnable solid waste to be placed in a burn pit provided and burned at appropriate times.
 - (c) Non burnable waste to be placed near burn pit and either buried or hauled off at completion.
 - (d) Latrine facilities to be furnished by drilling contractor.
8. Ancillary Facilities - None required
9. Well Site Layout - See Exhibit No. 3 and No. 3-A. Propose to use unlined reserve pit - Only fresh water mud to be used.
10. Plans for Restoration of Surface - Upon completion of well - To fill in and restore reserve pit area to conform as much as possible to original topography. To reseed any unused location pad and reserve pit area per BLM recommendations. Seed Mixture No. 3 - Per attachment. If a settling period occurs for reserve pit - It will be fenced and maintained until restoration is made.
11. Other Information - Surface is a sandy loam and some sand rock outcrop. Sparsely covered with Rabbit Brush, Snake Weed, Galleta Grass, Pinon Juniper, Mormon Tea, Yucca and Sagebrush. There are no known water wells in this area.

Page No. 2

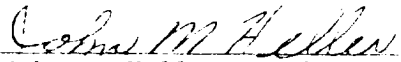
Development Plan for Surface Use Aztec No. 3-35

12. Operators' Representative - John M. Heller, Reg. Eng. P.O. Box 1507, Durango, Colo. 81301. Tel. Office (303) 247-0146. Res. (303) 247-3846, is acting field agent.

13. Certification -

I hereby certify that I have made an inspection of the proposed drill site and that I am familiar with the conditions relevant to the drilling of this well. That the statements made in this plan are, to the best of my knowledge, true and correct. That the operations proposed herein will be supervised by me. Drilling to be performed by (contractor not selected at this time). Dirt work performed by Atchison Const. Co., Aztec, N.M. and other sub-contract work to be in conformity with this plan.

Date: Feb. 28, 1978


John M. Heller, Field Agent

14. Environmental Analysis - A field inspection and study was made on Feb. 23, 1978 by the following persons:
Mr. Ray Foster, U.S.G.S. - Farmington, N.M.
Mr. Timothy Kreager - B.L.M. - Farmington, N.M.
Mr. William Naylor - Archeologist - NMSU, San Juan Campus, Farmington, N.M.
Mr. John Heller, Field Agent for Ladd Petroleum Corp. - Durango, Colo.

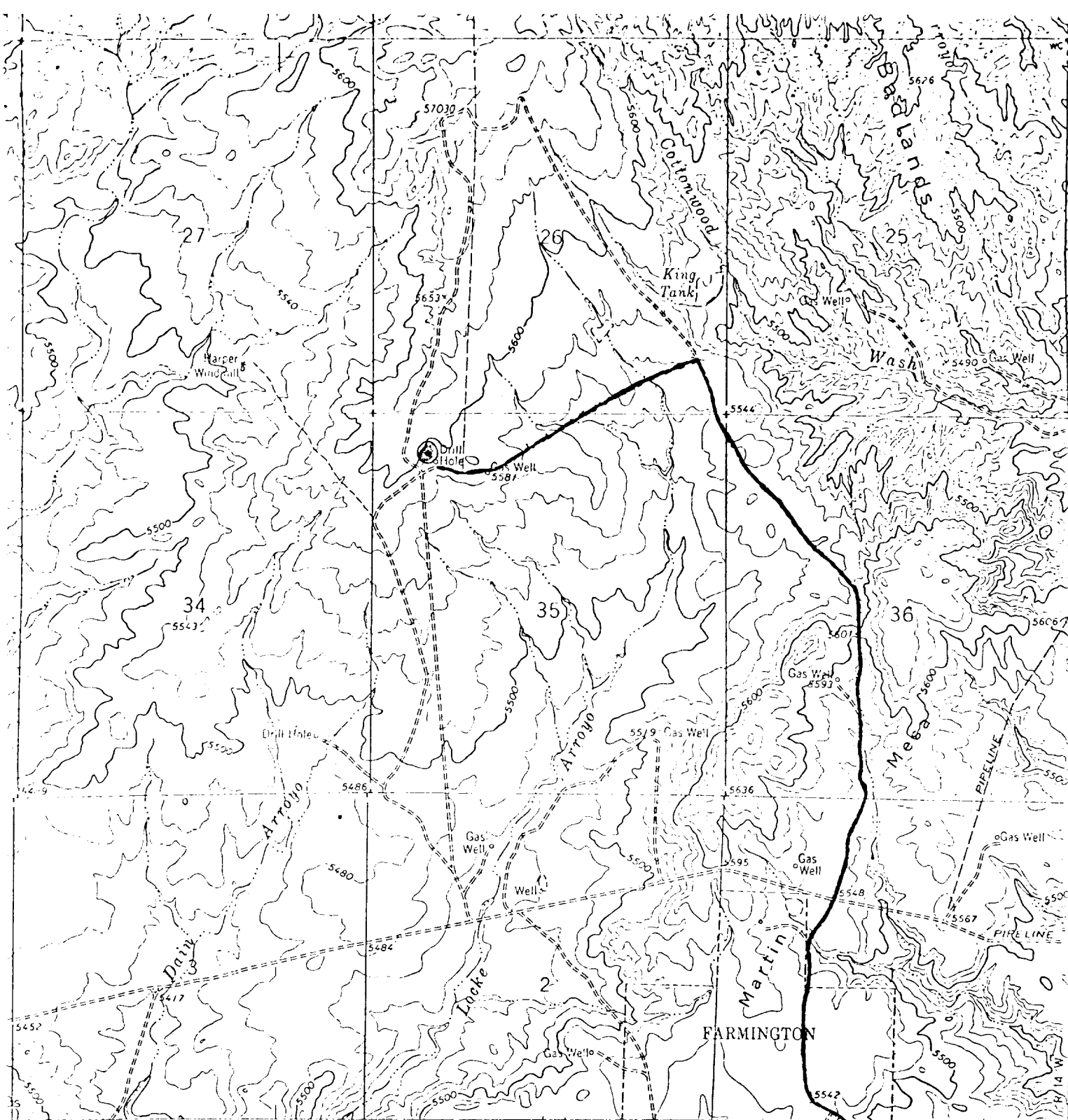


Exhibit No. 1

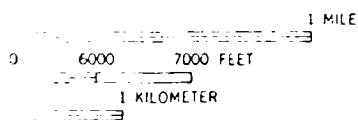
Topography Map for

Ladd Petroleum Corp - Aztec #3-35

790' fNL; 790' fWL; Sec. 35-30N-14W

San Juan Co., N. M.

INTERIOR- GEOLOGICAL SURVEY, WASHINGTON, D. C. - 1966



ROAD CLASSIFICATION

Medium-duty ———— Light-duty ————

Unimproved dirt =====



QUADRANGLE LOCATION

YOUNGS LAKE, N. ME

N3645-W10815/7 5

1963

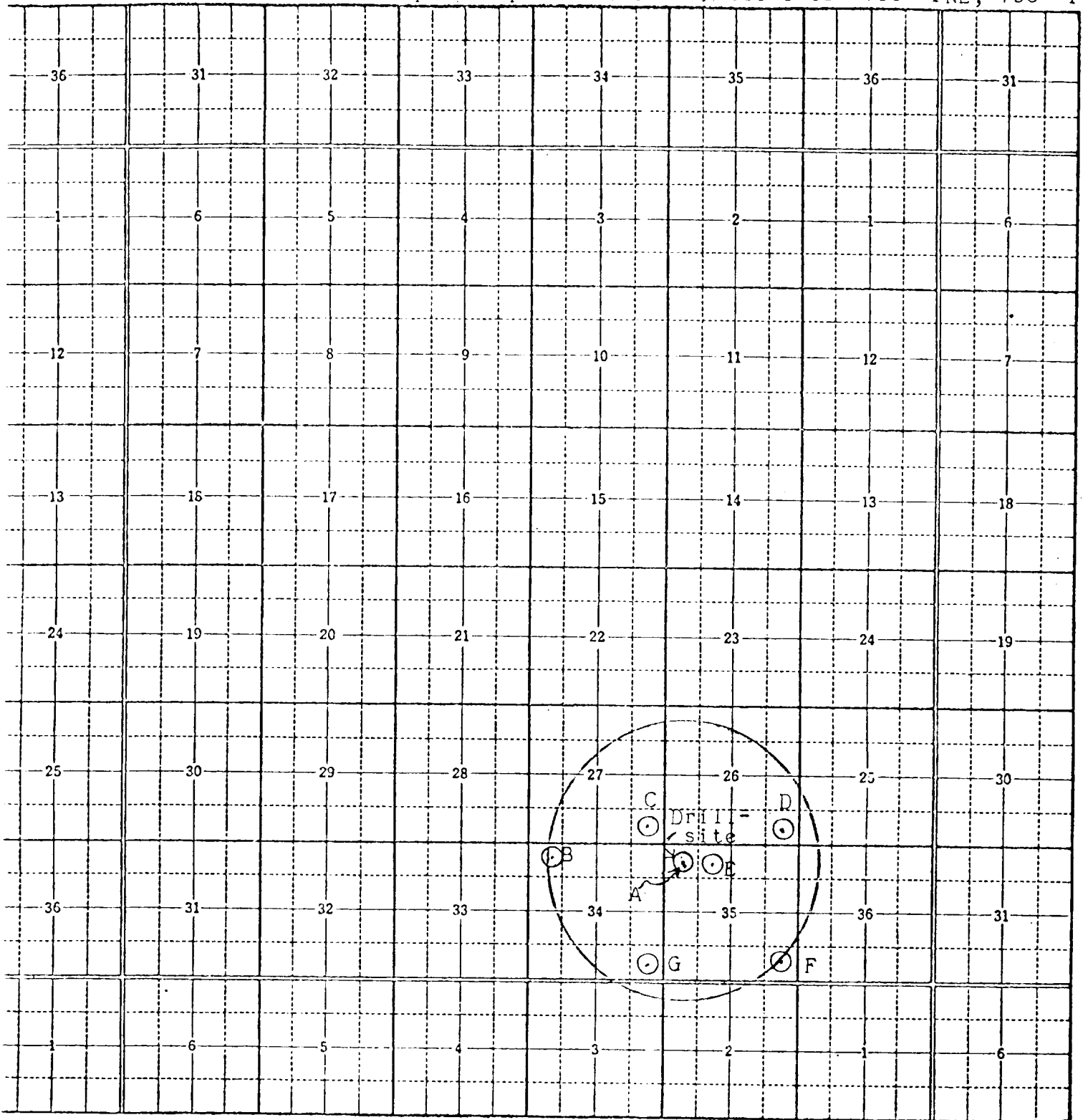
STANDARDS
25, OR WASHINGTON, D. C. 20242
AVAILABLE ON REQUEST

AMS 4357 IV SE-SERIES V8

Exhibit No. 2

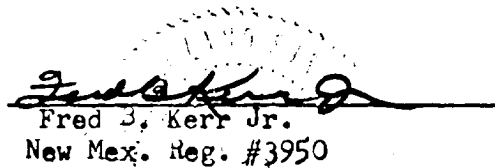
Township 30N, Range 14W, County San Juan, State New Mexico

Ladd Petroleum Corp. Proposed PC Test Aztec 3-35 790' fNL; 790' fwl



- A - Compass Exp. Fed. 35-1 890' fNL; 890' fwl P&A 4-10-62
- B - Mountain Fuel Dain No. 1 Abandon Location
- C - J P McHugh Mayre No. 3 P&A PC Test
- D - Tex Star O&G H. Smith No. 1 Prod. Dk.
- E - Compass Exp. Aztec 35-1-X Prod. Dk.
- F - Compass Exp. Aztec 2-35 Prod. Dk.
- G - Compass Exp. Aztec 34-1 P&A

Exhibit No. 3



BAYLESS DRILLING COMPANY
RIG # 2

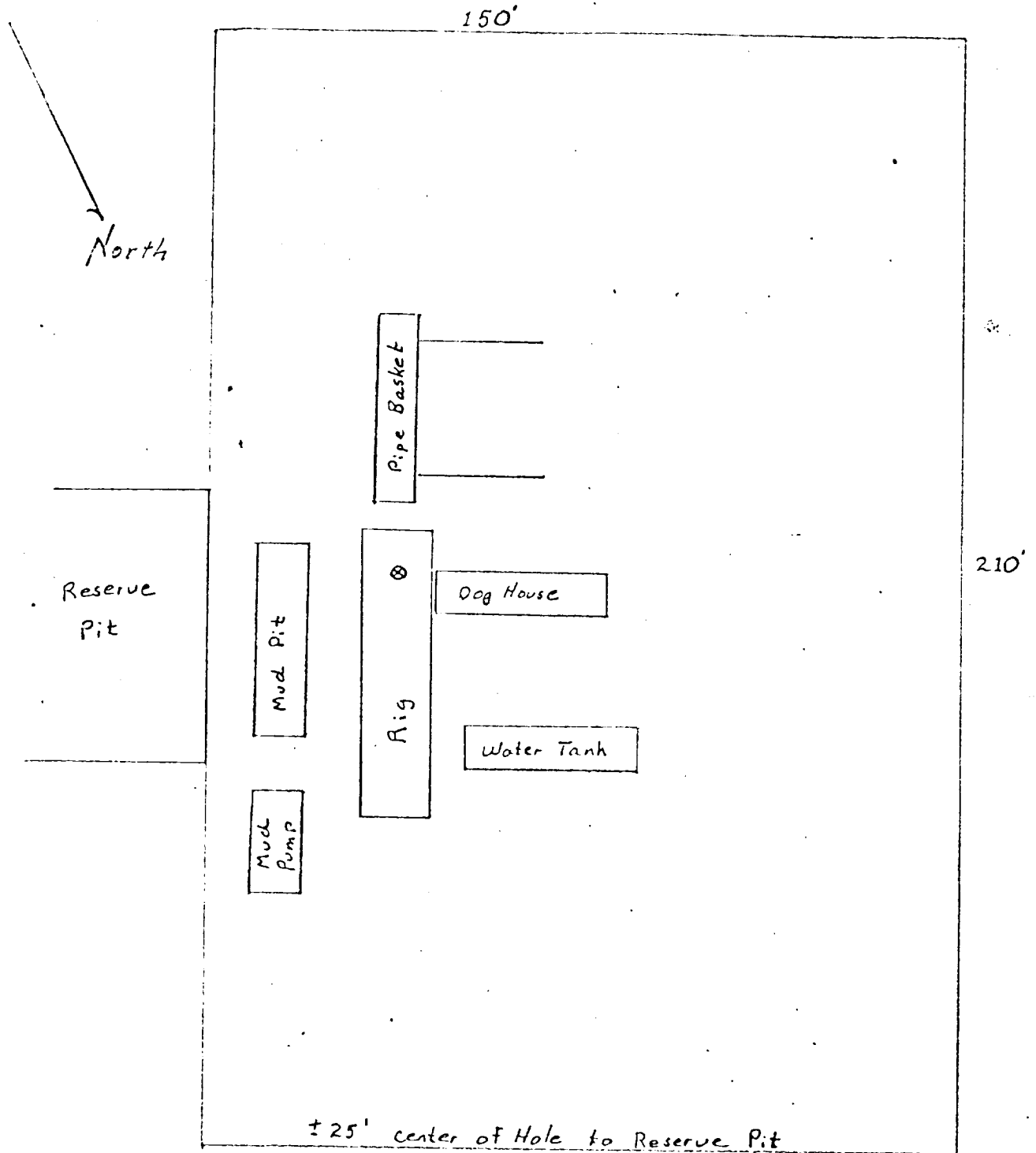


EXHIBIT A

BLM SEEDING REQUIREMENTS
IN THE FARMINGTON RESOURCE AREA

1. SEED MIXTURE 3

2. TIME:

All seeding will take place between July 1 and September 15.

3. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

4. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

FOURWING SALTBUSH (dewinged) (Atriplex canescens) - 1 lb.

SAND DROPSEED (Sporobolus cryptandrus) - 1-1/2 lbs.

ALKALI SACATON (Sporobolus airoides) - 1-1/2 lbs.

SHADSCALE (Atriplex convertifolia) - 3/4 lb.