COPY TO O. C. COMBIT IN TRIPECATE STATES (Other instruct reverse side,

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

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Adams Explora	ation Company						9. WELL NO.	<u>'</u>
3. ADDRESS OF OPERATOR							1	
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21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)		<u>'</u>				22. APPROX. DATE W	ORK WILL START*
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U. S. GEOLOGICAL SURVEY HOBBS, NEW MEXICO

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SIGNED J. J. J. J. J. J. J. J.	Berry TITLE_	Operations	Manager	DATE JU	ıly 13, 19	379
(This space for Federal or State office use)						
PERMIT NO.	· · · · · · · · · · · · · · · · · · ·	APPROVAL DATE	\(\begin{array}{c} \Array{c} \\	PPROVE	ED	
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CONDITIONS OF APPROVAL, IF ANY:	*See Instruction	s On Reverse Si	de Jacti	JUL 2 6 19	ENGINEER	>

APPLICATION FOR DRILLING PERMIT

ADAMS EXPLORATION COMPANY
DYAN FEDERAL #1
990' FNL & 330' FEL
Section 5, T8S, R32E
Chaves County, New Mexico

In support of Form 9-331-C, Application for Permit to drill the above described well, ADAMS EXPLORATION COMPANY submits the following exhibits and items of pertinent information in accordance w/Federal requirements.

Exhibit A. Surface Use Plan.

Exhibit B & B-1. Access Route Maps.

Exhibit C. Location and acreage dedication plat.

Exhibit D. Area plat showing wells in vicinity.

Exhibit E. Drill Site Layout.

Exhibit F. Drill Site Cross Section.

Exhibit G. Blowout prevention equipment schemetic drawing.

Exhibit H. Archaeological report.

- 1. The geologic surface formation is the Coppice Dune.
- 2. Estimated subsurface formation tops in this well are:

Rustler 1920 Yates 2400 San Andres 3450 Pi Marker 4020

- 3. Fresh water may be present in shallow sands. Hydrocarbons are possible only from the San Andres formation.
- 4. Pipe program:

16" conductor @ 40', cemented to surface. Will provide protection for shallow fresh water, if present, and prevent washout of cellar while drilling surface hole.

8-5/8" surface pipe @ 1800± or through the evaporites, cemented to surface.

4-1/2" production casing @ TD, if well is indicated to be productive.

- 5. Pressure control equipment: See Exhibit "G".
- 6. Mud program: Surface hole-fresh and brine water w/paper added to control seepage. Mud up and add LCM as necessary if loss of circulation becomes a problem. Drill out below surface casing w/fresh water, and mud up to a 9.5#, 35 vis product to drill the San Andres.
- 7. Auxiliary equipment:
 - A. Kelly cock in kelly.
 - B. Float at the bit.
 - C. Tool joint sub w/full opening valve to be stabbed into drill pipe when the kelly is not in the string.

APPLICATION FOR DRILLING PERMIT Page -2-

- 8. Testing, coring, and logging program.
 - A. Possible DST's in San Andres.
 - B. No coring is anticipated.
 - C. Compensated Density, Laterlog w/Gamma Ray Logs will be run from surface pipe shoe to total depth.
- 9. No abnormally pressured zones have been encountered in wells drilled to the east or west and thus are not expected at this location.
- 10. The anticipated starting date is August 15, 1979.

EXHIBIT "A" SURFACE USE PLAN

ADAMS EXPLORATION COMPANY
DYAN FEDERAL #1
990' FNL & 330' FEL
Section 5, T8S, R32E
Chaves County, New Mexico

This plan is submitted with Form 9-331-C, Application for Permit to Drill, covering the above captioned well. The purpose of this plan is to describe the location of the proposed construction activity and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation, so that a complete appraisal can be made of environmental impact associated with the drilling and operation of the well.

1. Exhibit "B" is a portion of a USGS Topography map. Scale 1:250,000 showing by the red line the route of access to the location. Exhibit "B" also depicts the topography and elevation of the land by contour lines (C.I. 100'), and roads in the vicinity of the proposed well. The well site is approximately 18 air miles SSE of Kenna, New Mexico.

Exhibit B-1 is a similar plat on a much larger scale (1:2000) and with much closer contours (C.I. 5').

The location can be reached from Kenna, New Mexico by driving south approximately 12 miles, thence southeast approximately 6 miles to Gallina Well. Road "Ys" at Gallina Well and take southwest fork of "Y" for 0.4 mile and the location will be 0.3 mile northwest of this point.

Location may also be reached from the south. At the starting point of Caprock Baptist Church on U.S. Hiway 380 (20 miles west of Tatum, New Mexico) turn north on black top road 10 miles. At cattle guard w/sign Cooper Ranch proceed north 0.5 mile, west 1.5 mile to Cooper Ranch Complex. Take northeast road from Cooper Ranch 12 miles to Gallina Well and proceed as described above to location.

Exhibit "C", on a scale of 1" = 1000' shows the well site as staked.

Existing roads to be used as access to the drill site are in reasonably good condition and it is not anticipated that improvement or maintenance will be required.

2. A single roadway on Federal surface will need to be constructed from a point on the east section line of Section 5, T8S, R32E approximately 1025 feet south of the NE corner of the section to the drill pad and will be approximately 250' in length. See Exhibit B-1 for route. We plan to build a 12' roadway by grading up a 6" crown with shallow bar ditches on either side. The 2000' access road & location will be caliched due to the sandy soil. This material will be purchased by the dirt contractor in an area that is off Federal Land. The access road will be on strike with the 4510 foot contour with only a slight depression prior to arriving at drilling pad. The proposed roadway has been flagged by the surveyor.

- 3. Exhibit "D" is an area plat on a scale of 1" = 4000', showing existing wells within a two mile radius of the proposed well.
- 4. At the present time, Adams Exploration neither owns or controls any facilities within a one mile radius of the proposed well.

If the well is found to be productive, presumably of oil, it will be necessary to install a flowline from the wellhead to an oil production unit and oil tanks which will be located on the drill site pad. A small flare pit, approximately 30' x 30' may be required, and if constructed, will be fenced with sheep-tight fence to protect livestock and wildlife.

Portions of the drill site pad not required for producing operations, if any, will be restored as closely as possible to original ground contours and seeded with native grasses as directed by the BLM.

- 5. Water for drilling will be purchased and trucked to location.
- 6. Surface material at the drill site is a sandy, rocky soil, and would be adequate for construction of the pad and road surface.
- 7. Drill cuttings from the well will be disposed of in the reserve pit. Drilling fluids will be trucked away to approved disposal facilities or allowed to dry in the reserve pit before closing. Water produced from the well, if any, will be retained in the reserve pit during testing of the well. If the well produces water on a continuing basis, such water will be stored in a corrosion resistant vessel and transported to approved disposal facilities. Any oil or condensate produced will be stored on site until sold and trucked to market by approved carriers. Current regulations pertaining to the disposal of human waste will be complied with. Trash, waste paper, garbage, and junk will be collected and buried in a separate trash pit and covered with two feet of soil. All waste materials will be collected in such a manner as to prevent scattering by the wind.
- 8. No auxiliary facilities will be required for the drilling of this well.
- 9. Exhibit "E" is a drill site layout drawn to No Scale showing the dimensions of the well pad and the location of the major drilling components, pits, etc. Exhibit "F" shows cross sections of the pad with approximate cuts and fills. Pits will be plastic lined.
- 10. After all drilling and completion operations are finished, excess and unnecessary equipment will be removed. The location will be cleared and cleaned and insofar as possible restored to original contours of the land. The pits will be allowed to dry before being closed and restored, and will remain fenced until closed. If the well is dry, all compacted areas, including the access road, will be ripped to a depth of at least 12", and reseeded if so directed by the BLM.
- 11. The proposed drill site is located on the Llano Eslacado and is 2 miles northeast of Button Mesa. This is an arid region and vegetation is sparse consisting of prickly pear, mesquite, oak brush & yucca. The soil is mainly sand with some caliche & rocks.

ÉXHIBIT "A" Surface Use Plan Page -3-

The contemplated operations are on Federally owned surface, and the land is not fenced. No livestock was noted, but it is assumed the land is leased for grazing. No wildlife was observed in the vicinity. Typical desert fauna should be expected to be present, however. There are no dwellings or other buildings in proximity of the site.

An archaeological investigation by Dr. Peter S. Miller of the proposed distrubed area has been made and a copy of the report is attached hereto as Exhibit "H". The following errata in Dr. Miller's report should be noted. The drilling site pad will measure approximately $130' \times 210'$ rather than $400' \times 400'$ as stated in Dr. Miller's report.

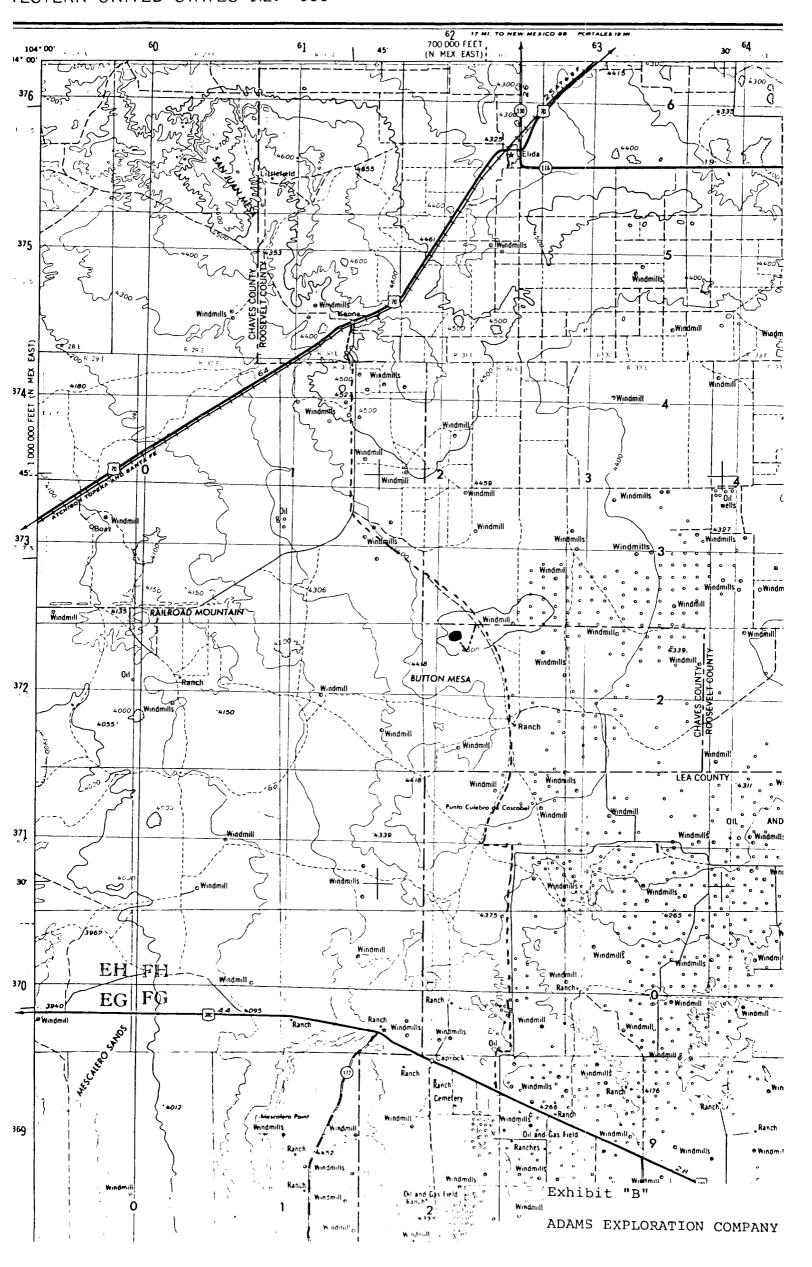
12. Lessee's representative will be as follows:

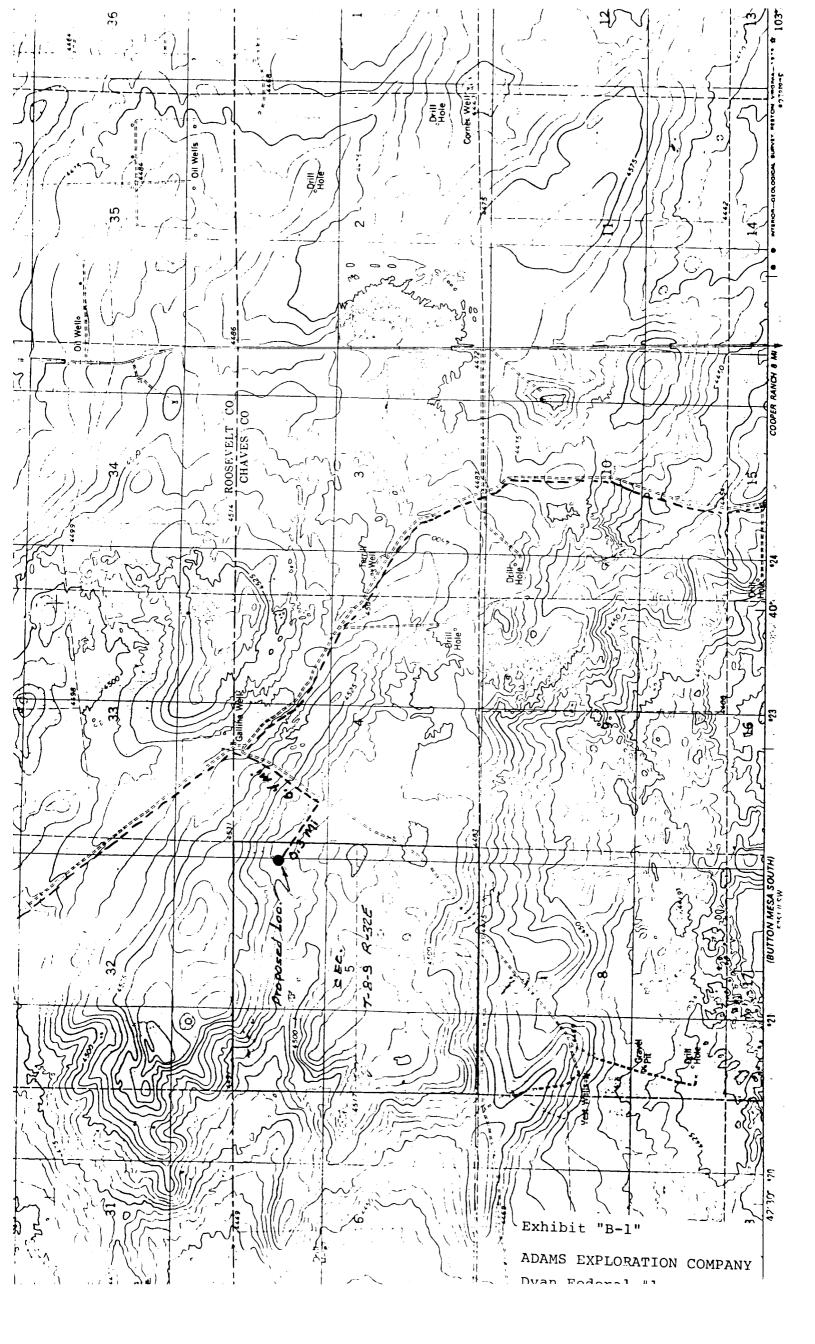
J. T. Berry Operations Manager 410 West Ohio, Suite 202 Midland, Texas 79701 915-683-3303 - office 915-694-9900 - home

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 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 Adams Exploration Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: July 13, 1979

Operations Manager

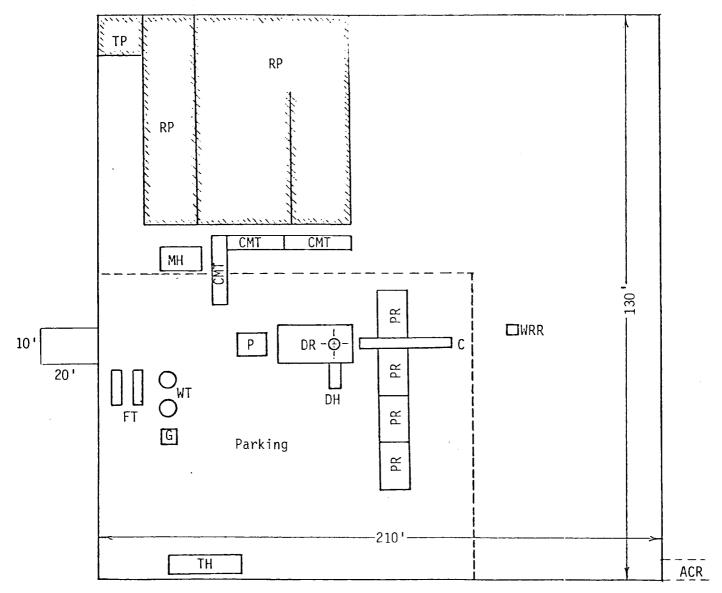




All distances must be from the outer boundaries of the Section.

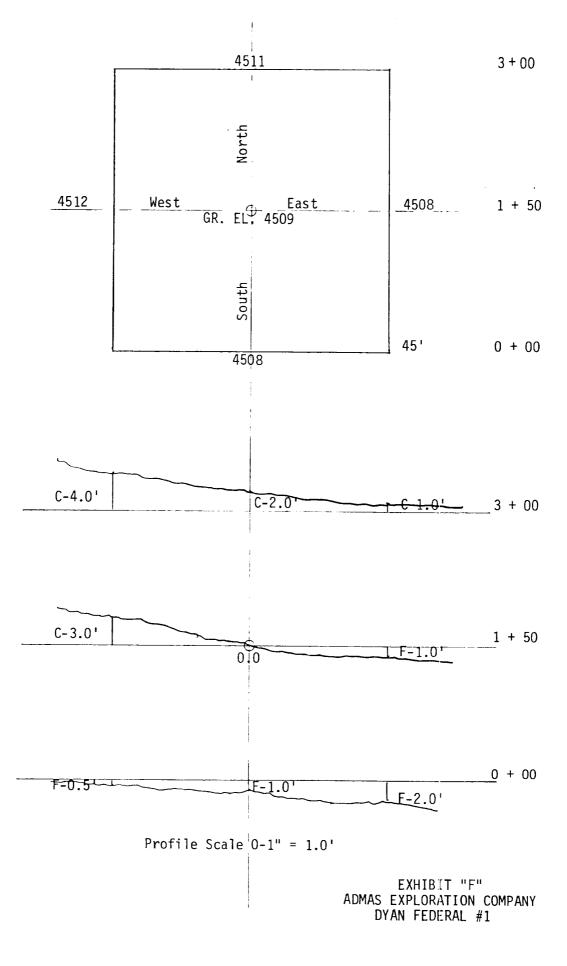
					
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No Scale

Legend: ADAMS EXPLORATION COMPANY Trash Pit DYAN FEDERAL #1 RP Reserve Pits ACR Access Road NTL - 6 МН Mud House (Dotted line indicates maximum CMT Circulating Mud Tanks extent of heavily compacted Р Pump area) DR Drilling Rig PR Pipe Racks С Catwalk EXHIBIT "E" WRR Wire Rope Reel Drill Site Layout Fuel Tanks FT WT Water Tanks G Generator DH Dog House Trailer House TH



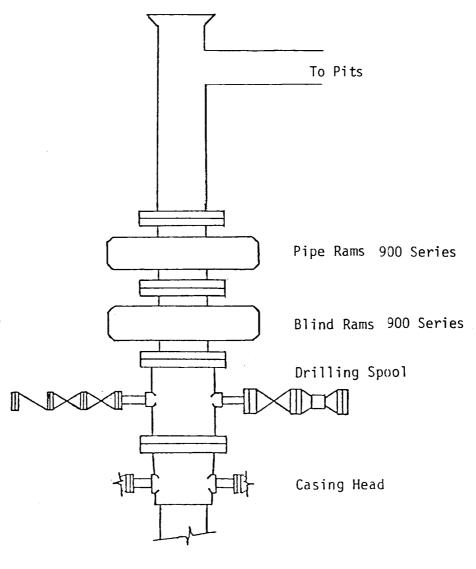


EXHIBIT "G"

Schematic Diagram of

Blowout Prevention Stack

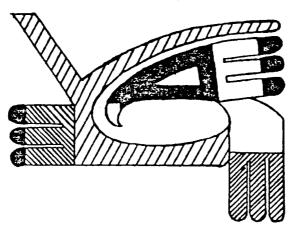
EXHIBIT "H"

AN ARCHAEOLOGICAL RECONNAISSANCE

FOR

ADAMS EXPLORATION DYAN FEDERAL #1

79-151



by Scott C. Schermer

Edited and Submitted by

Dr. Peter S. Miller
Director
Agency for Conservation Archaeology
Eastern New Mexico University
Portales

July 9, 1979

Introduction

An archaeological reconnaissance was recently completed by the Agency for Conservation Archaeology, Eastern New Mexico University for Adam's Exploration in Chaves County, New Mexico. The reconnoitered area will be impacted by the construction of a well pad. The project was administered by Mr. "Chic" Dunoven, Adam's Exploration and Dr. Peter S. Miller, Director, for ACA. This report was prepared by the Portales Office of ACA.

The field work was conducted on 6 July 1979 by Scott Schermer. This survey was conducted under Federal Antiquity Permit Number 79-NM-049. A search of the National Register has been made and properties within this area are not on the National Register. Field and weather conditions were good during the course of the survey.

Survey Technique

Visual inspection of the well pad was completed by walking a series of parallel transects. Each transect was covered in a tightly spaced zigzag. The distance between transects was 20 feet. This method maximized the opportunity of observing any cultural resources within or near the proposed area of impact.

Dyan Federal No. 1

The proposed well pad is located 18 miles southeast of Kenna, New Mexico, on the Llano Estacado. The pad measures 400×400 feet and is situated as follows:

NEWNEW, Section 5, T8S, R32E, NMPM, Chaves County, NM (BLM)

Map Reference: USGS Button Mesa North Quadrangle 7.5 minute series, 1978 (Advanced Proof). (See figure 1)

Terrain

The proposed well pad is located on the Llano Estacado and is 2 miles northeast of Button Mesa. It is situated on a southward facing slope which has a gradient of approximately 20%. This slope appears to be part of an alluviated draw which has been cut into the surface of a gently undulating plain. The surface of this area is overlain by a Coppice Dune Field, the height of these dunes is low on the pad, but larger dunes occur on the higher elevations to the north. The elevation is 4504.6 feet. The soils encountered in the area are predominantly loamy calcareous sands. Lithic inclusions within this soil consist of small to moderate amounts of caliche. Taxonomically this soil can be classified as a member of the Paleustalfs-Ustipsamments-Paleargids association.

Floristics

ACA encountered a moderate floral assemblage in this area. The density of the vegetation is approximately 40 percent. The floral community consists

primarily of grasses. Among the species present are engleman pricklypear (Opuntia phaecantha), mesquite (Prosopis juliflora), oak brush (Quercus havardii), plains yucca (Yucca campestris), blue gramma (Bouteloua gracilis) bush muhley (Muhlenbergia porteri), little bluestem (Androgon scoparis), plains lovegrass (Eragrostis intermedia), sideouta gramma (Bouteloua curtipendula), tabosa (Hilaria mutica), western wheatgrass (Agropyron smithii), nightshade (Solanum eleagnifolium), spectacle pod (Dithyrea wislizenii), broom snakeweed (Gutierrezia sarothrae), and buckwheat (Eriogonum havardii).

Cultural Resources

ACA did not encounter any archaeological sites or isolated manifestations, either within or near the proposed facilities. A review of the National Register did not find any properties listed for this location.

Recommendations

ACA recommends clearance for the well pad and suggests that construction be allowed to proceed as currently planned.

