

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Schalk Development Company

## 3. ADDRESS OF OPERATOR

P. O. Box 25825, Albuquerque, New Mexico 87125

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1150' FNL; 960' FEL; Sec. 32, T-31N, R-4W;  
At proposed prod. zone Rio Arriba County, N. M.

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

12 miles NE of Gobernador, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

960'

## 16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6057'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6614' GR

## 22. APPROX. DATE WORK WILL START\*

Upon Approval

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24#	150'	150 sacks circulated
7-7/8"	4-1/2"	10.5#	6057'	300 sacks

## FORMATION TOPS

Kirtland	3027'
Fruitland	3297'
Pictured Cliffs	3420'
Cliff House	5617'
Menefee	5669'
Point Lookout	5887'
Total Depth	6057'

*gas not indicated*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

TITLE Managing Partner

DATE 10-01-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

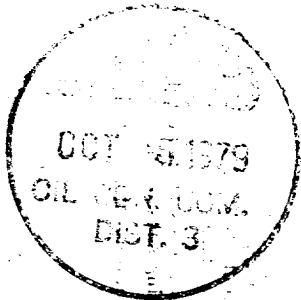
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*ok Frank*

\*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.

RECEIVED

OCT 4 1979

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

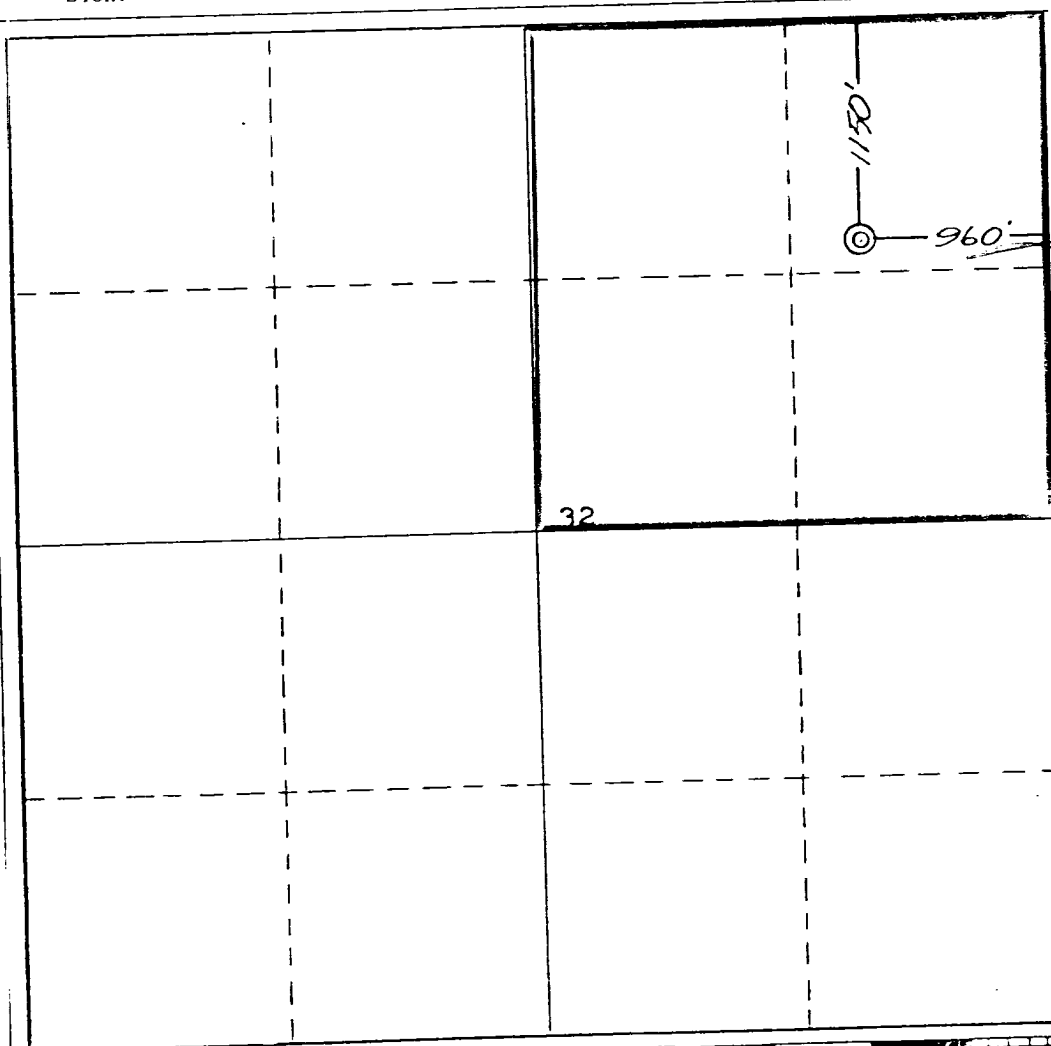
Operator <b>SCHALK DEVELOPMENT COMPANY</b>		Lease <b>SCHALK 31-4</b>		Well No. <b>1</b>
Unit Letter <b>A</b>	Section <b>32</b>	Township <b>31 NORTH</b>	Range <b>4 WEST</b>	County <b>RIO ARriba</b>
Actual Footage Location of Well: <b>1150</b> feet from the <b>NORTH</b> line and <b>960</b> feet from the <b>EAST</b> line				
Ground Level Elev. <b>6614</b>	Producing Formation <b>Mesa Verde</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>160</b> Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

**Steve Schalk**

Position

**Agent**

Company

**Schalk Development Co**

Date

**10-01-79**

I hereby certify that the location shown on this plat was plotted in the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

**21 June 1979**

Registered Professional Engineer and Land Surveyor

**James P. Leese**

Certificate No.

**1463**

## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

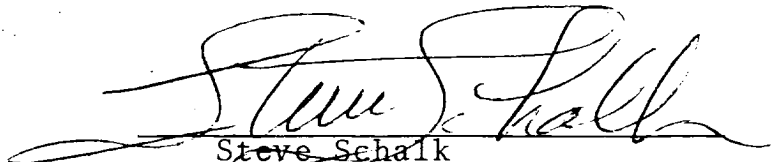
1. Existing roads: Attached map shows existing road running from the Northwest corner of the quarter section, past proposed location, and ending in the Southeast corner of the quarter section.
2. Planned Access road: None.
3. Location of existing wells: Schalk 31-4 Well No. 2; 1845' from the South line; 1670' from the West line; Section 33, Township 31 North, Range 4 West; Rio Arriba County, New Mexico.
4. Location of existing and/or proposed facilities: None.
5. Location and type of water supply: Water will be taken from Navajo Lake and transported by truck to proposed location.
6. Source of construction materials: None.
7. Methods for handling waste disposal: Cuttings to be disposed of in a reserve pit; a burn pit to be used for disposal of trash, garbage, etc.; and covered on clean-up of location.
8. Ancillary facilities: None.
9. Well site layout: Per attached drawing.
10. Restoration of surface: Upon completion of drilling operations, the disturbed surface area will be restored as near as practical to its original contours. If sufficient top soil is encountered, it will be stockpiled for restoration of surface. Restoration will be to the satisfaction of the United States Geological Survey.
11. This location slopes at an increase of 10' per 400' to the Northeast. There will be approximately a five foot cut on the Northeast side of the proposed location. Vegetation is sage brush, and various grasses. The surrounding area is comparable and any disturbances to the wildlife will be only temporary. With the restoration of surface, surface damage will be minimal.
12. Lessee's or Operator's Representative: John E. Schalk, P. O. Box 25825, Albuquerque, New Mexico, 87125; Joe D. Christesson, 2301 Southside River Road, Farmington, New Mexico, 87401; or Steve Schalk, 6200 Rio Hondo, NE, Albuquerque, New Mexico.

## 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 Arapahoe Drilling Co. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

10-01-79

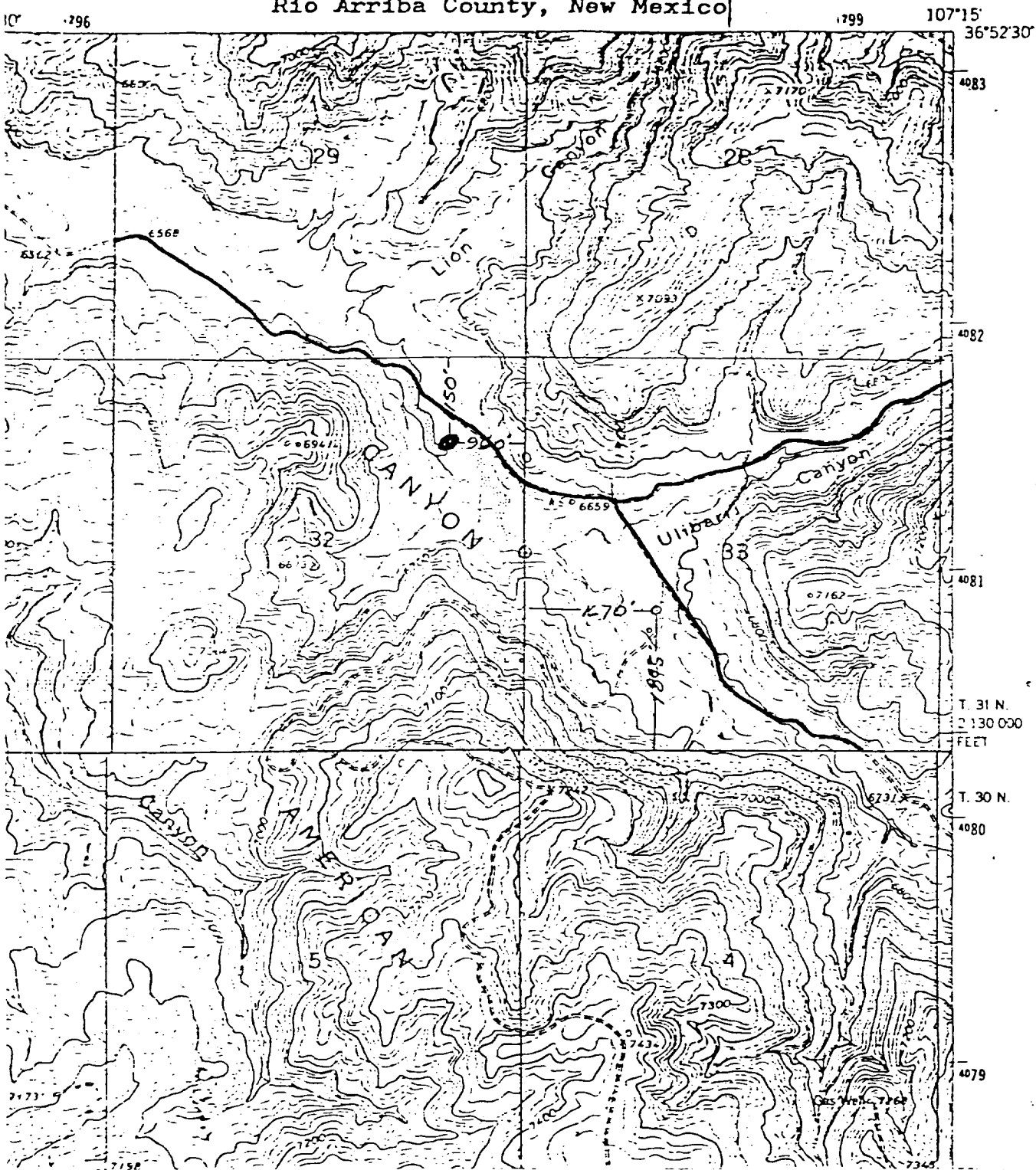
                      
Date

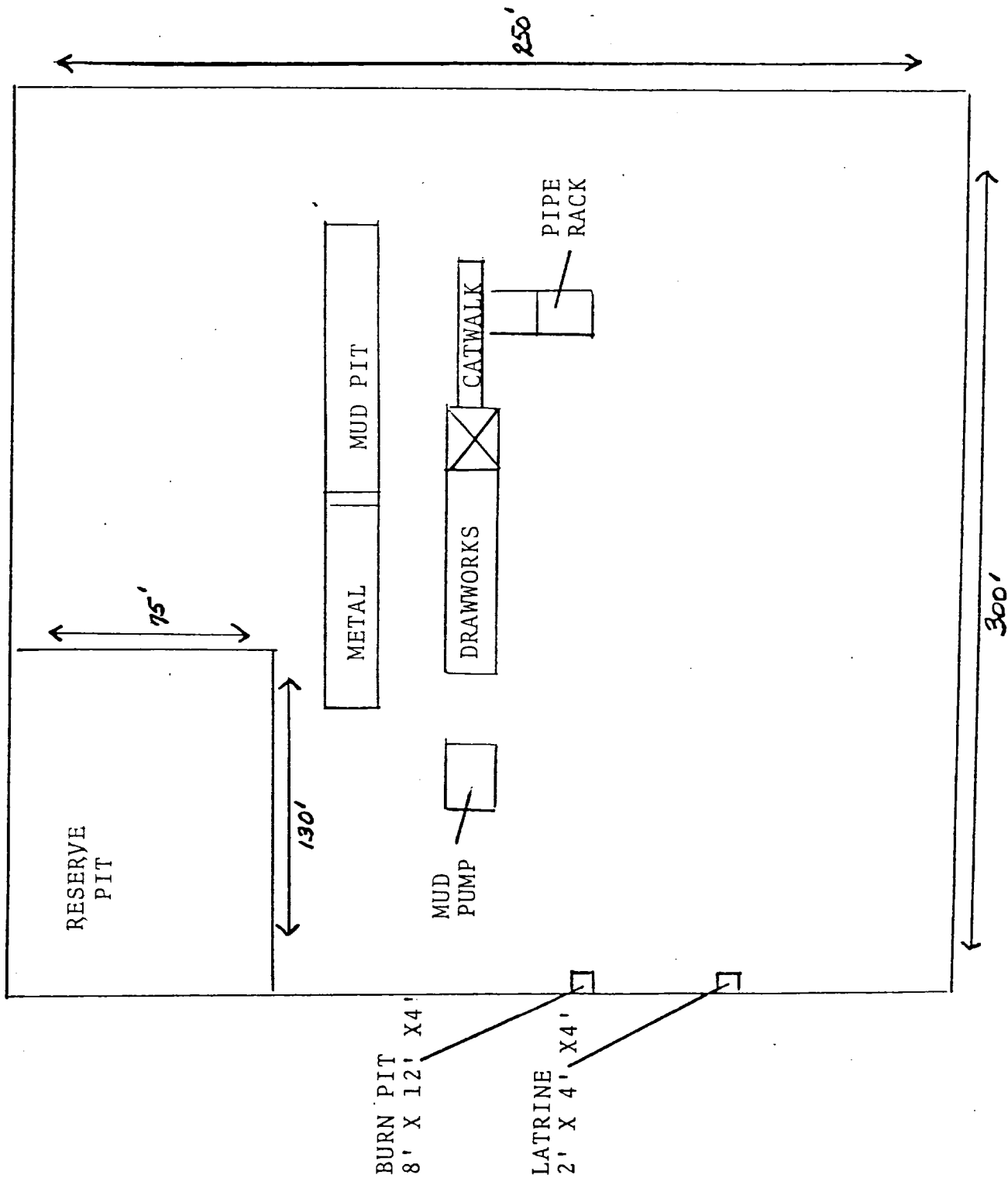
  
Steve Schalk  
Agent

SCHALK DEVELOPMENT COMPANY  
SCHALK 31-4 #1  
NE $\frac{1}{4}$  SECTION 32, T31N, R4W  
Rio Arriba County, New Mexico

NCH QUADRANGLE  
-RIO ARriba CO.  
IES (TOPOGRAPHIC)

5571 NW  
CARRACAS CANYON

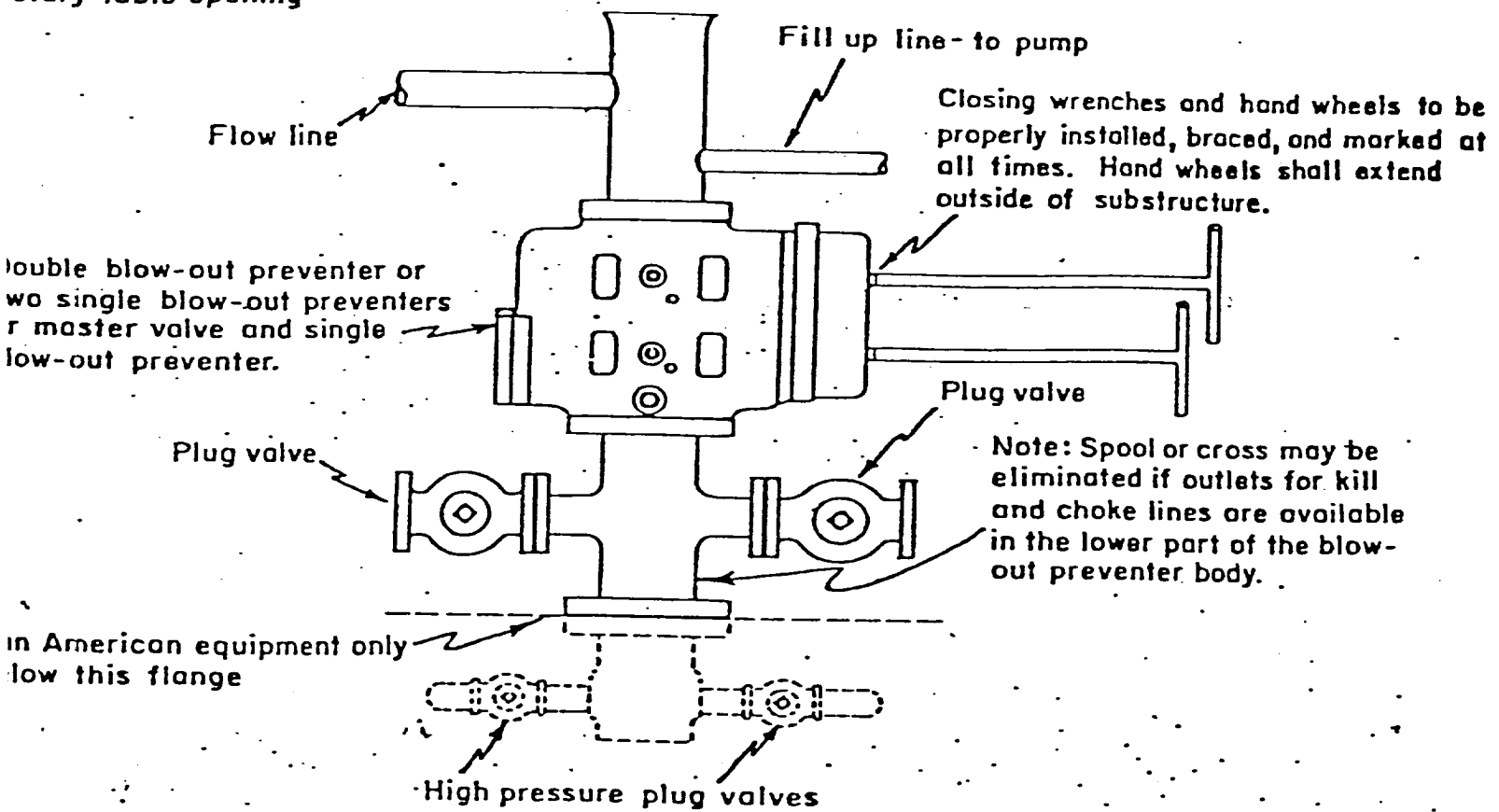




ARAPAHOE DRILLING CO.

BLOW-OUT PREVENTER HOOK-UP

Drilling nipple to be so constructed that it can be removed, without use of a welder, through rotary table opening



United States Department of Agriculture  
Forest ServiceSPECIAL USE  
APPLICATION AND REPORT

Ref: FSM 2712

FOREST SERVICE USE ONLY	a. Record no. (1-2) 70	b. Region (3-4) --	c. Forest (5-6) --
	d. District (7-8) --	e. User number (9-12) ----	f. Kind of use (13-15) ---
	g. State (16-17) --	h. County (18-20) ---	k. Cord No. (21) 1

## PART I - APPLICATION (To be completed by applicant)

Application is hereby made for a permit to use National Forest land as indicated below:

## 1. Description of land: (Attach MAP or PLAT)

A one acre plot in the NW/4 of Section 32, Township 31 North,  
Range 4 West.

## 2. Purpose of use.

Consturction and drilling the Schalk 31-4 Well #1 gas well  
located 1150' from the North line, 960' from the East line  
of Section 32, Township 31 North, Range 4 West, Rio Arriba  
County, New Mexico.

## 3. Land Area applied for (For Rights-of-Way show length and width and convert to acres; for other uses show acres)

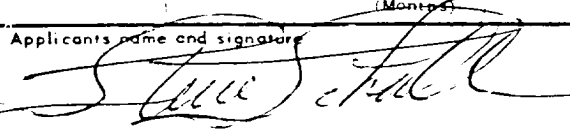
Length in:            (Miles) or            (Feet) × Width            (Feet) =            (Acres)

## 4. Improvements

## a. Description

Improvements will consist of a one acre gas well location,  
storage tanks, collection pits, and ohter paraphenalia  
necessary for the drilling maintenance and production of  
natural gas.

b. Plans attached ☐ Yes ☒ No. If "NO" show date plans will be furnished \_\_\_\_\_

c. Estimated cost \$ 5,000.00	d. Construction will begin within 1 month (Months)	e. Construction will be completed within 1 month (Months)
Date of Application 10-01-79	Applicants name and signature  Schalk Development Company Steve Schalk, Agent	Applicant's address P. O. Box 25825 Albuquerque, N. M. 87125 (ZIP Code)

(OVER)

2700-3 (7/71)



Report 79-SJC-139  
Permit NM National Forest

An Archaeological Clearance Survey of  
Three Proposed Well Locations & One Access  
Road Conducted for Schalk Development Company

Submitted by,  
L. Jean Hooton  
Cultural Resource Management  
San Juan Campus  
N. M. State University

26 June 1979

An Archaeological Clearance Survey of  
Three Proposed Well Locations & One Access  
Road Conducted for Schalk Development Company

On June 21, 1979, L. Jean Hooton from the Cultural Resource Management Program, San Juan Campus, NMSU, conducted an archaeological clearance survey at the request of Mr. Johnny Alhm of Arapahoe Drilling Company. Present during the inspections were Mr. Steve Schalk from Schalk Development Company and Mr. Cecil Tullis from San Juan Engineering Company. The proposed wells and access roads are on lands administered by the U. S. Forest Service - Carson National Forest and were surveyed under a New Mexico National Forest federal antiquities permit.

The most recent listings of the National Register of Historic Places have been consulted and no sites which appear on the Register and no sites which have been nominated to the Register occur on the project area. This proposal complies with the provisions of the Historic Preservation Act of 1966 and with Executive Order 11593. It is recommended that archaeological clearance be given.

METHODOLOGY

The proposed well locations were surveyed by walking parallel transects, 75 feet apart, over a 300 X 300 foot easement. The proposed access road was inspected by walking the length of the proposed route from the well location to an existing road.

### GENERAL RECOMMENDATIONS

No cultural resources were found during the survey and full archaeological clearance is recommended.

Proposed Well: SCHALK 31-4 #1

(Figure 1)

Land Status: Carson National Forest

Location: The proposed well will be in the SW $\frac{1}{4}$  of the NE $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 32, Township 31 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. The location of the well is 1150 feet from the North line and 960 feet from the East line of Section 32.

Access: Existing

Terrain: Rolling canyon bottom with northwesterly drainage and alluvial deposits.

Soil: Sandy clayey loam.

Vegetation" Sage, Indian paintbrush, mariposa lily, globe mallow, snakeweed, Indian ricegrass, brome, crested wheat, saltbrush, rabbitbrush, and wild mustard.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: SCHALK 31-4 #2

(Figure 1)

Land Status: Carson National Forest

Location: The proposed well will be in the SW $\frac{1}{4}$  of the NE $\frac{1}{4}$  of the SW $\frac{1}{4}$  of Section 33, Township 31 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. The location of the well is 1845 feet from the South line and 1670 feet from the West line of Section 33.

Access: Existing

Terrain: Rolling canyon bottom with northwesterly drainage and alluvial deposits.

Soil: Sandy clayey loam.

Vegetation: Sage, rabbitbrush, saltbush, snakeweed, prickly pear, mariposa lily, Indian paintbrush, globe mallow, larkspur, brome, crested wheat, wild mustard, and Indian ricegrass.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: SCHALK 31-4 #3 (Figure 1)

Land Status: Carson National Forest

Location: The proposed well will be in the SE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 34, Township 31 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. The location of the well is 840 feet from the North line and 1745 feet from the East line of Section 34.

Access: 20 feet wide and 1300 feet long approaching the well from the North.

Terrain: Gentle slope in cove bottom with northerly drainage, sandstone outcrops, and alluvial deposits.

Soil: Sandy clay loam.

Vegetation: Ponderosa pine, piñon, juniper, scrub oak, grama, Indian paintbrush, and sage.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

R 4W

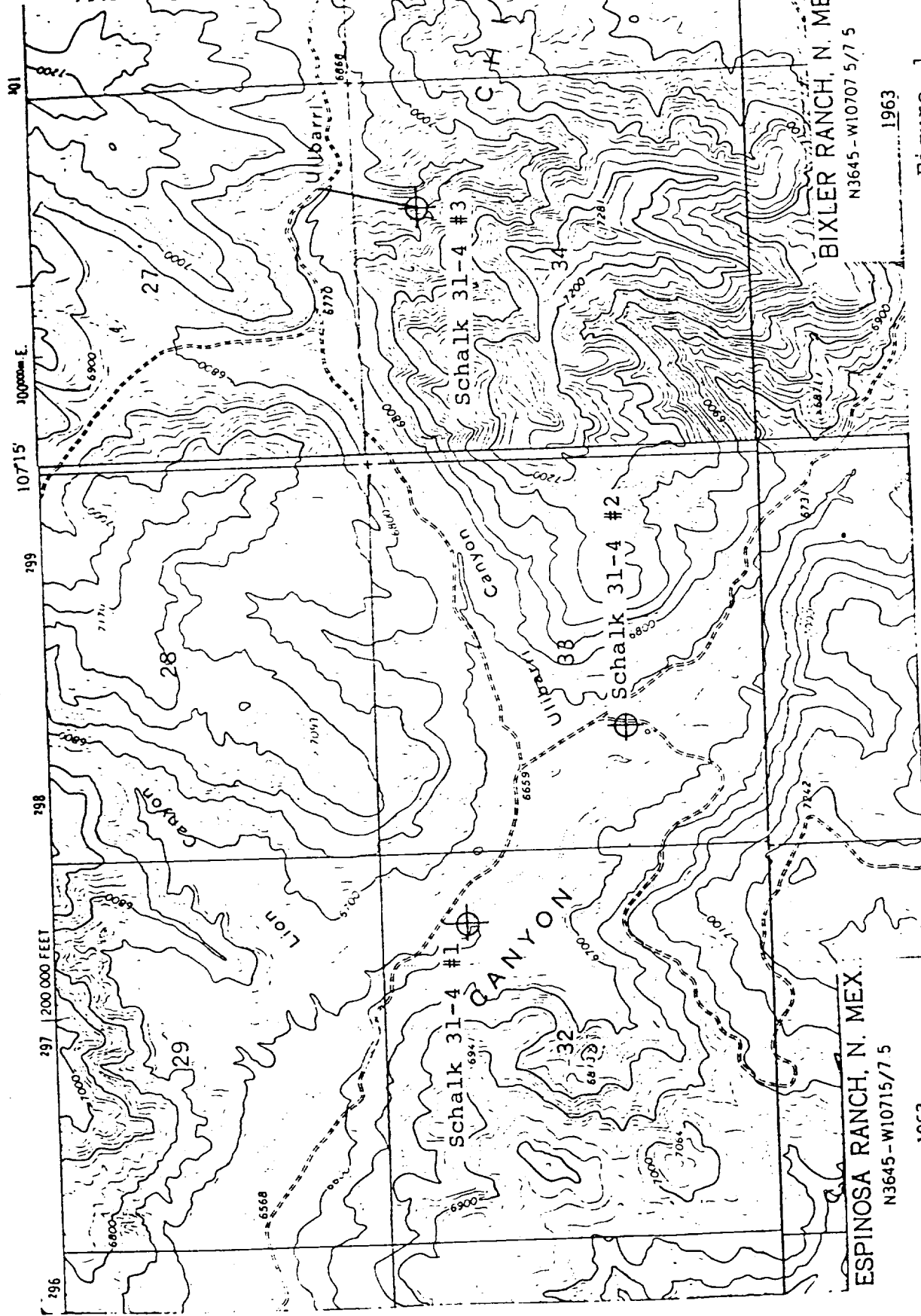


Figure 1

R 4W