

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

OCT 2 1980

b. TYPE OF WELL

OIL WELL ☐GAS WELL ☒

OTHER

2. NAME OF OPERATOR

Schalk Development Company

3. ADDRESS OF OPERATOR

P. O. Box 25825, Albuquerque, N.M. 87125

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

At surface

820' FNL; 820' FEL; Sec. 12, T-30N, R-5W;
Rio Arriba County, New Mexico

At proposed prod. zone

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

50 miles East of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*

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

820'

16. NO. OF ACRES IN LEASE

200

17. NO. OF ACRES ASSIGNED
TO THIS WELL

N/268.63

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

200'

19. PROPOSED DEPTH

8372'

20. ROTARY OR CABLE TOOLS

Rotary

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

6676' GR

DRILLING
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

22. APPROX. DATE WORK WILL START*

10-01-80

PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative
appeal pursuant to 30 CFR 290.1

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 12-1/4" | 8-5/8" | 24# | 300' | 300 sacks |
| 8-5/8" | 4-1/2" | 10.5# | 8372' | 600 sacks |

FORMATION TOPS

Ojo Alamo 2910'
Kirtland 3008'
Pictured Cliffs 3490'
Lewis 3548'
Cliff House 5674'
Menefee 5721'
Point Lookout 5908'
Mancos 6000'
Gallup 6642'
Greenhorn 7928'
Greneros 7975'
Dakota 8109'

Estimated depths at which anticipated
water, oil, gas or other minerals are
expected to be encountered:

None

anticipated abnormal pressures are
expected.Blow-out Preventer: Schaffer, Double-
Gate, Hydraulic, 900 Series.

Tested when surface casing set.

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

DATE 10-14-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL IF ANY:

1980
B. J. SIMS
DISTRICT ENGINEER

*See Instructions On Reverse Side

NW 3-474

Hold for oper name change
on #1

NMDC

ALL Distances must be from the outer boundary of the Section.

| | | | | |
|--|----------------------|---------------------------------------|------------------------|----------------------------------|
| Owner SCHALK DEVELOPMENT CO. | | Lease SCHALK 57 | | Well No. 1-E |
| Section A | Section 12 | Township 30 NORTH | Range 5 WEST | County RIO ARriba |
| Feet from the NORTH line and 820 | | Feet from the EAST line 820 | | Dedicated Acres 268.63 |
| Producing Formation Dakota | | Basin Basin Dakota | | |

- Outline the acreage dedicated to the subject well by colored pencil or machine 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 communitization

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 Division.

CERTIFICATION

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

Signature
John E. Schalk
Name
John E. Schalk
Position
Managing Partner
Company
Schalk Development Co

Date
10-29-80

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

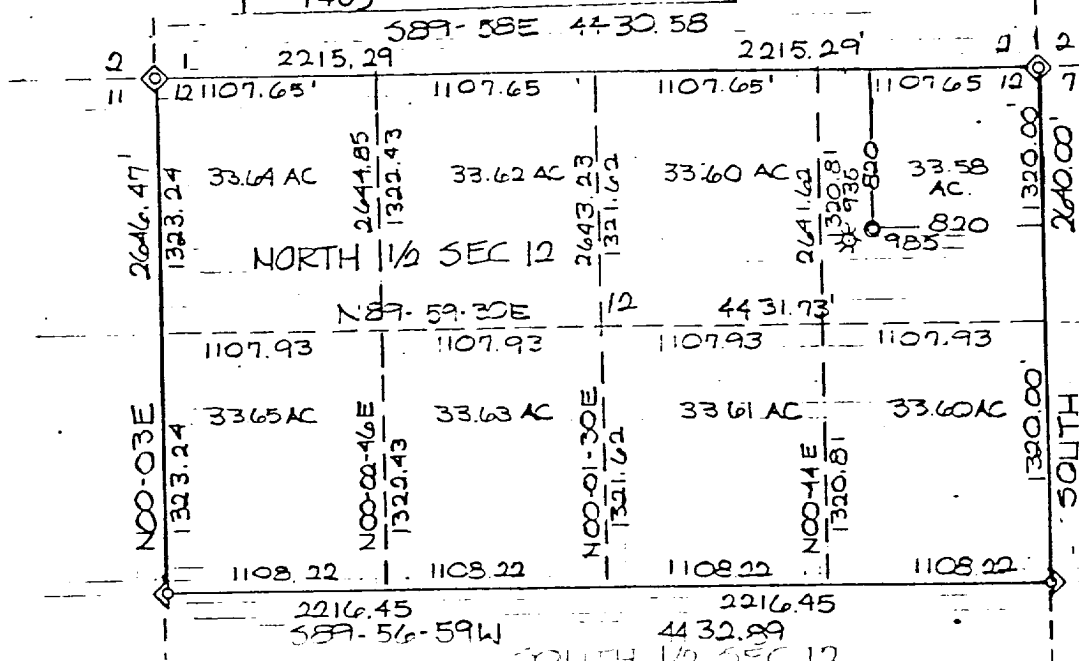
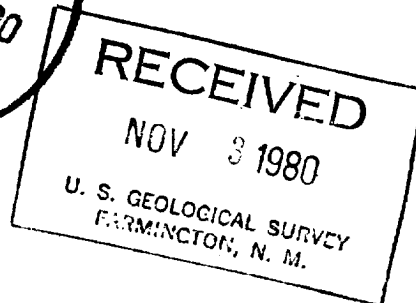
Date Surveyed
August 26, 1980

Registered Professional Engineer and/or Land Surveyor

Signature
James P. Leese
Name
James P. Leese

Certificate No.

1463



MULTI-POINT SURFACE USE AND OPERATIONS PLAN

1. Existing roads: Existing road enters Section 2 from the West; crosses Section and exits on the East side of Section; road turns South in Section 1; exits Section 1 at Southern boundry; road turns East and then South in Section 12 directly to proposed location.
2. Planned access road: None.
3. Location of existing wells: See attached map.
4. Location and type of water supply: Water will be taken from Navajo Lake and transported to location by truck.
5. Source of construction materials: None.
6. Methods of 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.
7. Ancillary facilities: None.
8. Well site layout: Per attached drawing.
9. 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 U. S. G. S.
10. This location slopes at an increase of 20' per 400' to the East. There will be approximately a 12' to 15' cut on the East side of the proposed location. Vegetation is described in the attached archaeological report. 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.
11. Lessee's or Operator's representatives: John E. Schalk, P. O. Box 25825, Albuquerque, New Mexico, 87125; Steve Schalk, 6200 Rio Hondo, NE, Albuquerque, New Mexico; or Joe D. Christesson, 2301 Southside River Road, Farmington, New Mexico, 87401.

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.

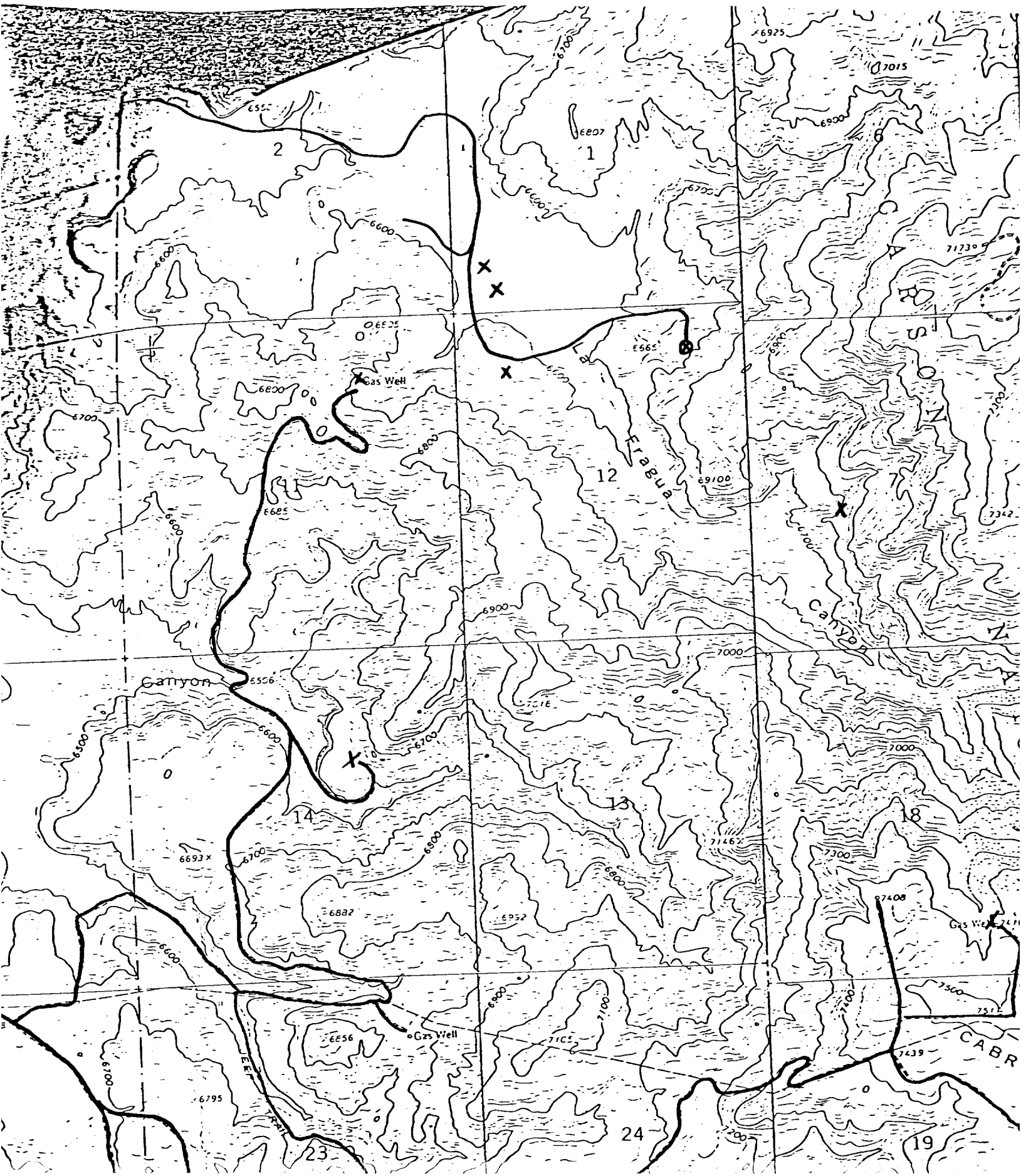
10-14-80

Date _____

John E. Schalk

Schalk 57-1E
 Section 12, T-30N, R-5W
 Rio Arriba County, N.M.

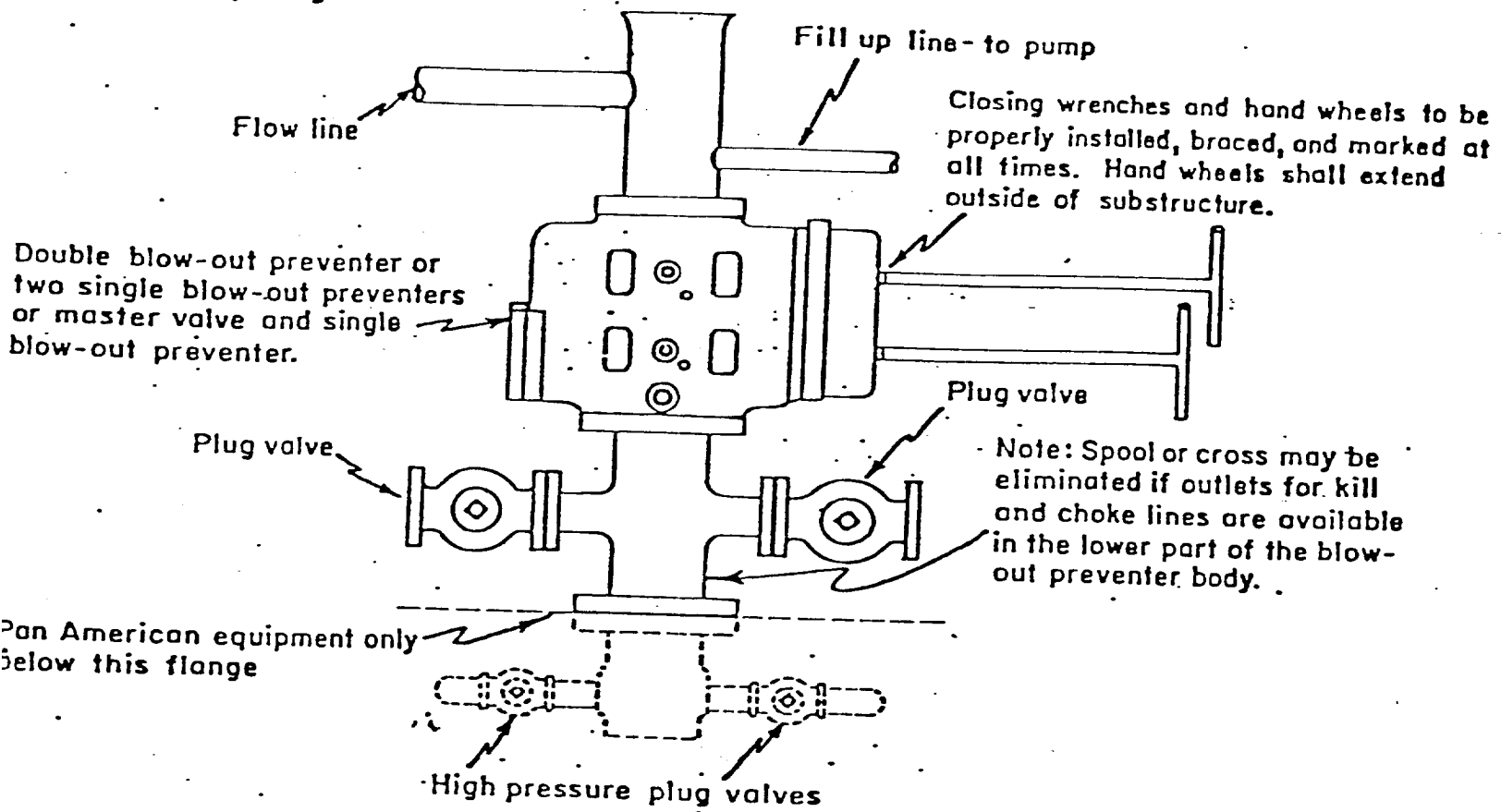
| | |
|-----------|-------------------|
| ————— | Existing Roads |
| - - - - - | Proposed Roads |
| X | Existing Wells |
| ⊗ | Proposed Location |

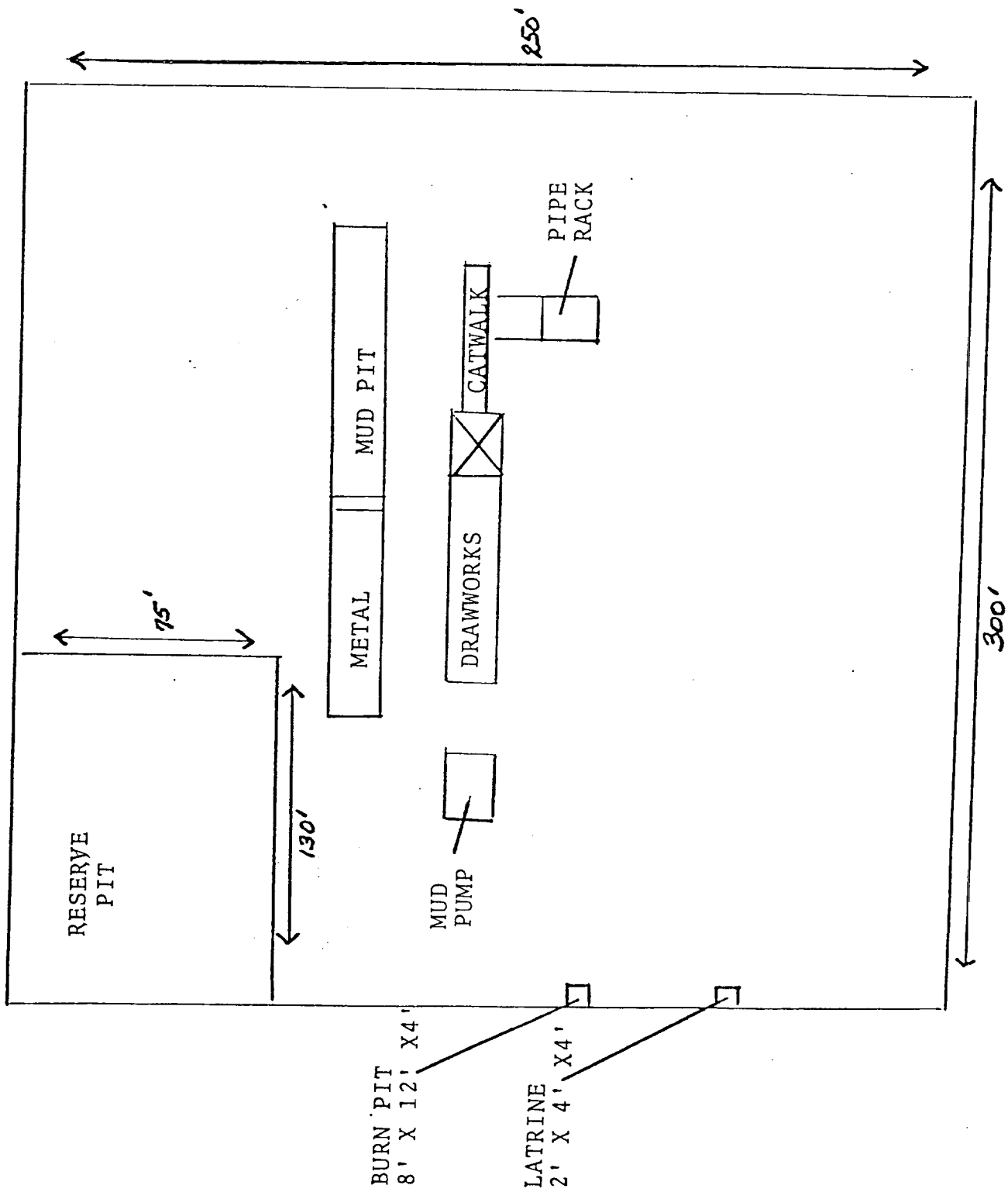


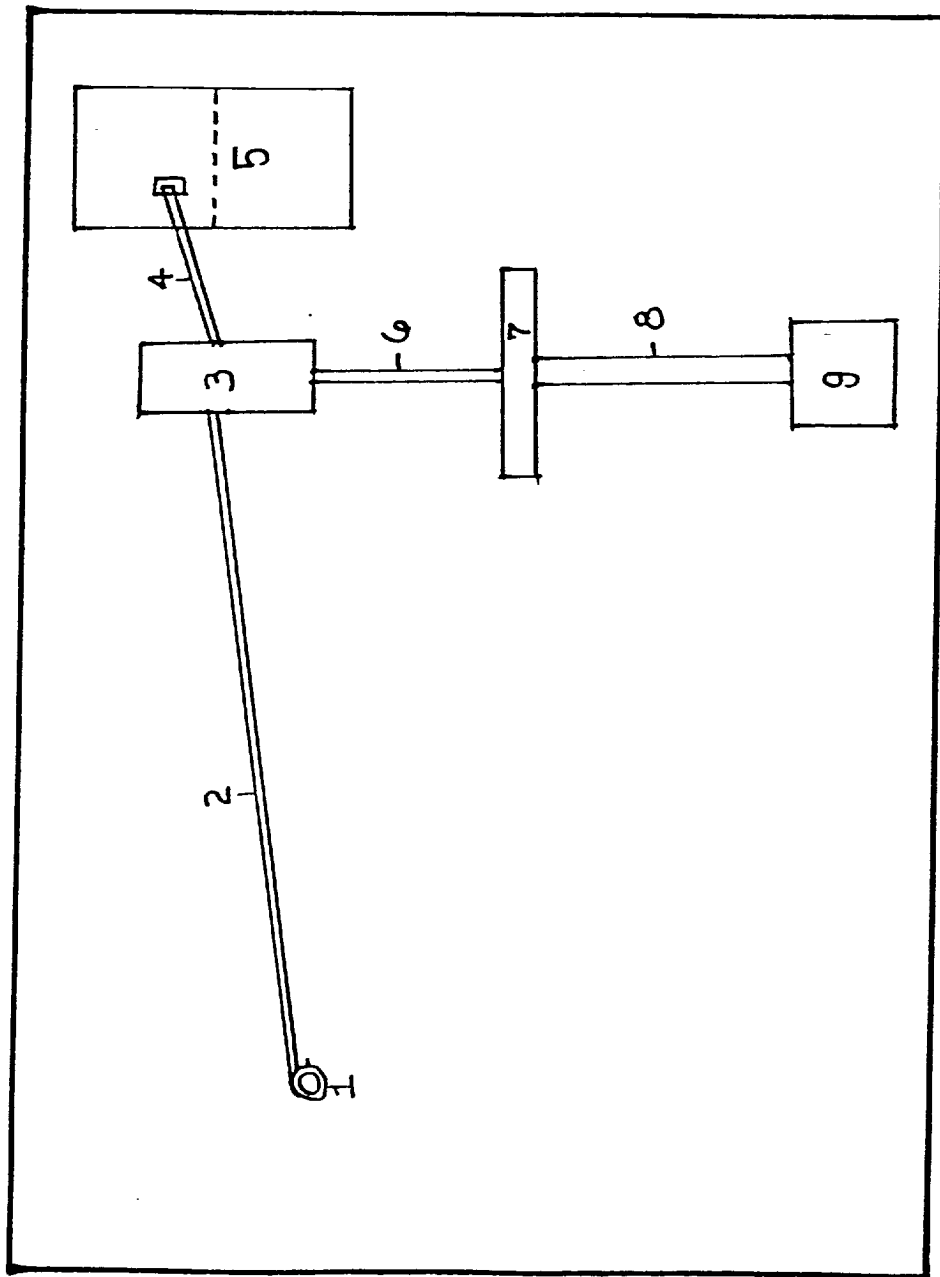
ARAPAHOE DRILLING CO.

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







- 1) W-K-M Wellhead; 2" - 2000# valves throughout.
- 2) Fifty foot long, 2" underground line from the wellhead to the separator; rated to 4000#.
- 3) P & A, Inc. separator. Rated to handle 2000 MCP/day.
- 4) 2" above ground line to water pit.
- 5) Water pit; 10' x 10' x 4'.
- 6) 2" underground line from separator to dehydrator.
- 7) Northwest Pipeline's dehydrator.
- 8) 40 foot long, 4" meter run from dehydrator to meter house.
- 9) Northwest Pipeline's meter house.

Report 80-SJC-311
Permit N.M. State National
Forest

An Archaeological Clearance Survey of
Four Proposed Well Locations
Conducted for Schalk Development Company

Submitted by
L. Jean Hooton
Cultural Resource Management
New Mexico State University
San Juan Campus

9 September 1980

An Archaeological Clearance Survey of
Four Proposed Well Locations
Conducted for Schalk Development Company

On 2 September 1980, L. Jean Hooton from the Cultural Resource Management Program, New Mexico State University, San Juan Campus, conducted an archaeological clearance survey of four proposed well locations for Schalk Development Company at the request of Mr. Johnny Ahlm from Arapahoe Drilling Company.

Present during the survey were Mr. Jack Evans from Arapahoe Drilling Company, Mr. John Keller from the U.S. Geological Survey - Farmington office, Mr. Henry Brill from the Carson National Forest, and Mr. Harold Maez from Northwest Pipeline Corporation.

The proposed well locations are on land administered by the U.S. Forest Service, Carson National Forest, Jicarilla Ranger District, and were surveyed under a New Mexico State National Forest Federal Antiquities permit.

The most recent listing of the National Register of Historic Places has been consulted and no sites which are on the Register and no sites which have been nominated to the Register occur in the project area. No sites which are eligible for nomination to the Register occur in 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, seventyfive feet apart, over the 300 by 300 foot easements.

Proposed Well: SCHALK DEVELOPMENT - SCHALK 57 #1E

Land Status: Carson National Forest.

Location: The proposed well location is in the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 12, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. The well will be 820 feet from the north line and 820 feet from the east line of Section 12. (Figure 1)

U.T.M.: Center - 13; 2,94,470 mE; 40,78,510 mN.

Access: Existing.

Area Surveyed: 2.07 acres.

Terrain: Slope with northwesterly drainage, alluvial surface deposits, and sandstone outcrops.

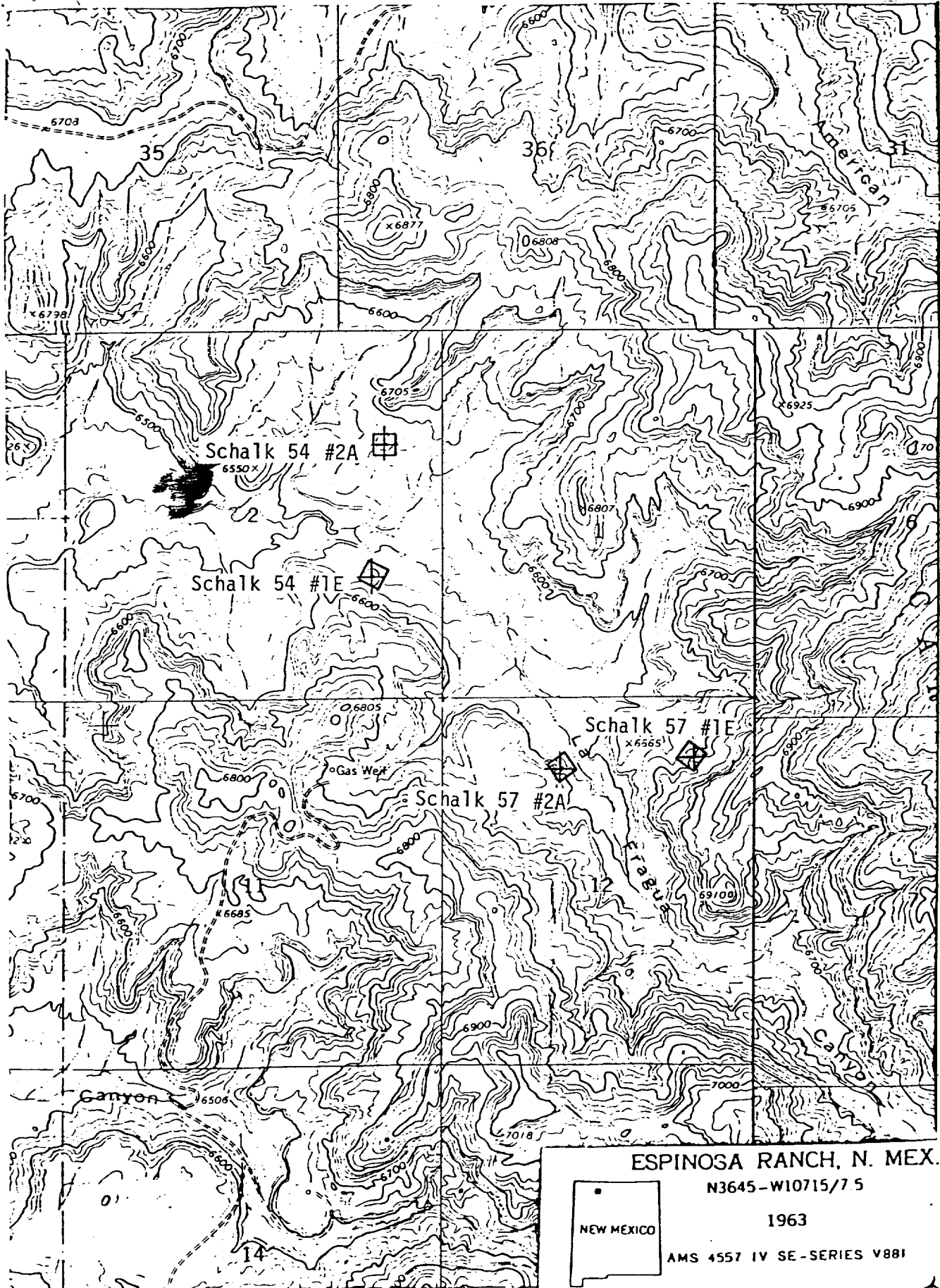
Soil: Sandy clay loam.

Vegetation: Piñon, juniper, scrub oak, mountain mahogany, serviceberry, snakeweed, wild sunflower, prickly pear cactus, indian ricegrass, galleta.

Cultural Resources: None found.

Recommendations: Clearance recommended.

R 5W R 4W



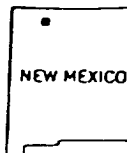
T 31N
T 30N

ESPINOSA RANCH, N. MEX.

N3645-W10715/7 5

1963

AMS 4557 IV SE-SERIES V881



United States Department of Agriculture
Forest ServiceSPECIAL USE
APPLICATION AND REPORT

Ref: FSM 2712

| | | | |
|-------------------------|---------------------|-----------------------|------------------------|
| FOREST SERVICE USE ONLY | a. Record no. (1-2) | b. Region (3-4) | c. Forest (5-6) |
| | 70 | -- | -- |
| | d. District (7-8) | e. User number (9-12) | f. Kind of use (13-15) |
| | -- | ---- | --- |
| | g. State (16-17) | h. County (18-20) | i. Card 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 NE/4 of Section 12, Township 30 North,
Range 5 West, Rio Arriba County, New Mexico. Lease No.: NM 4457.

2. Purpose of use.

Construction and drilling the Schalk 57-1E gas well located
820' from the North Line, 820' from the East Line of Section
12, Township 30 North, Range 5 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)

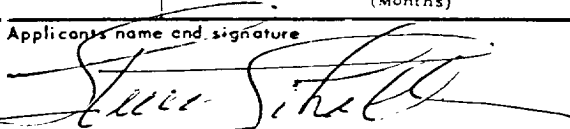
Length in: (Miles) or (Feet) × Width (Feet) = (Acres)

4. Improvements

a. Description

Improvements will consist of a one acre gas well location,
storage tanks, collection pits, and other paraphernalia
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 | d. Construction will begin within | e. Construction will be completed within |
| \$ 5,000.00 | 2 | 2 |
| | (Months) | (Months) |
| Date of Application | Applicant's name and signature | Applicant's address |
| 10-14-80 |  Schalk Development Company Steve Schalk | P. O. Box 25825 Albuquerque, N. M. 87125 (ZIP Code) |

(OVER)

2700-3 (7/71)