

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-039-21957
5. LEASE DESIGNATION AND SERIAL NO.
NM-23043

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 Co.

3. ADDRESS OF OPERATOR

P. O. Box 25825, Albuquerque, New Mexico

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

At surface

E 1850' FNL, 790' FWL, Sec. 36, T-25N, R-3W

At proposed prod. zone

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Schalk 43

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Wildcat Mesquite

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 36, T-25N, R-3W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

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

17 miles from Lindrieth, N.M.

15. DISTANCE FROM PROPOSED*

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

790'

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.

1 mile

19. PROPOSED DEPTH

5831'

20. ROTARY OR CABLE TOOLS

Rotary

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

7047 GR

22. APPROX. DATE WORK WILL START*

November 10, 1978

23.

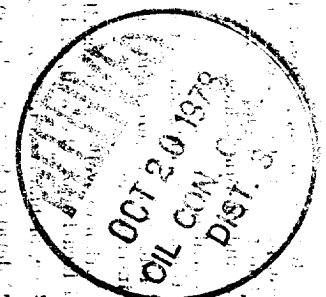
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	23#	300'	200 sacks
7-7/8"	4-1/2"	10.5#	5831'	350 sacks

FORMATION TOPS

Ojo Alamo	3101'
Pictured Cliffs	3431'
Lewis	3451'
Cliff House	5091'
Point Lookout	5629'
Manos	5731'
Total Depth	5831'

gas not located



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

10/6/78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

RECEIVED

OCT 19 1978

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

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.

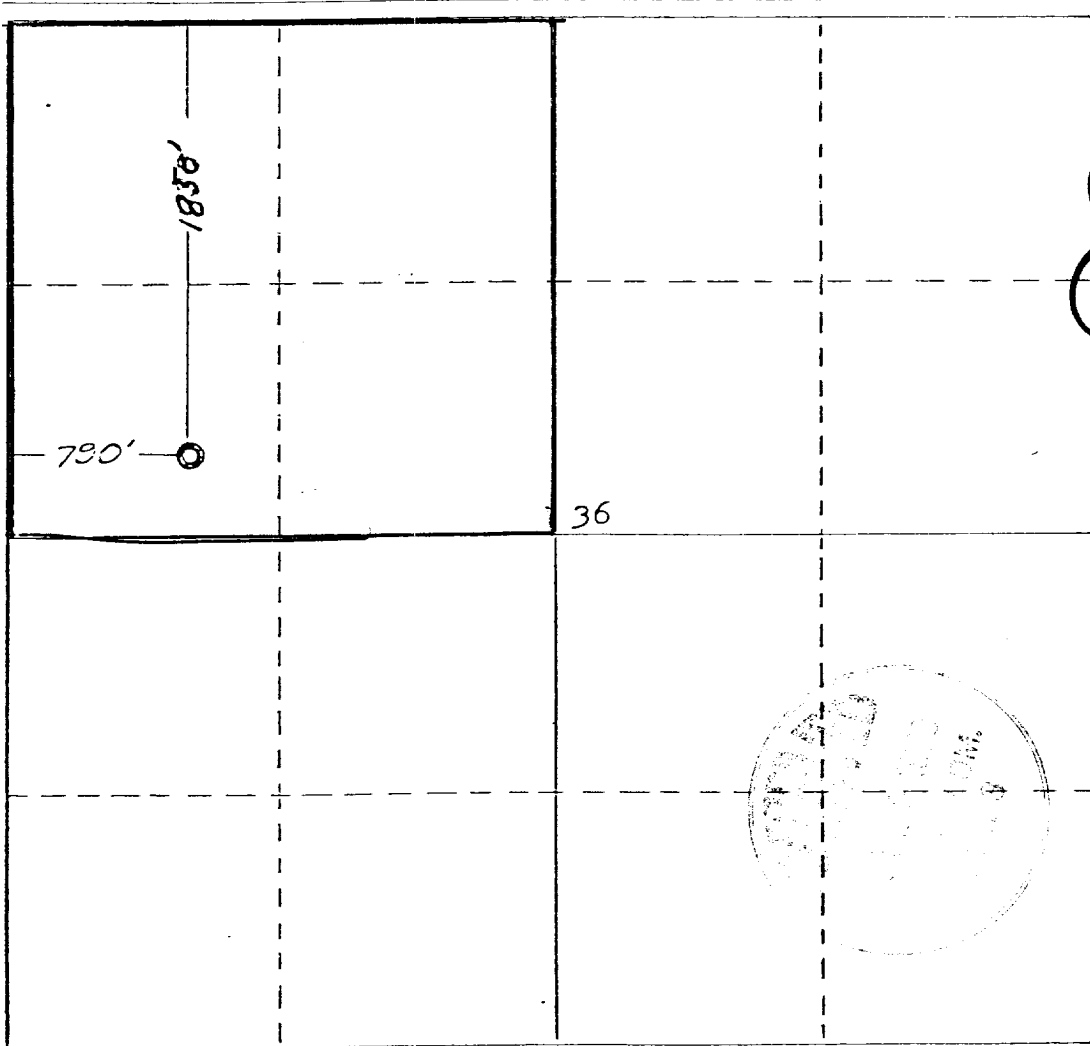
Operator Schalk Development Co.		Lease SCHALK 43		Well No. 4
Unit Letter E	Section 36	Township 25 NORTH	Range 3 WEST	County RIO ARriba
Actual Footage Location of Well: 1850 feet from the NORTH line and 790 feet from the WEST line				
Ground Level Elev. 7047	Producing Formation Mesa Verde		Pool Wildcat	Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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.



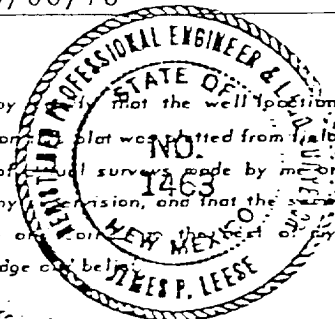
CERTIFICATION

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

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

Date
10/06/78

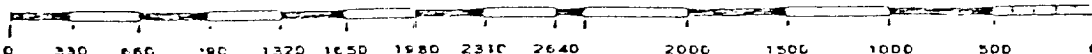
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

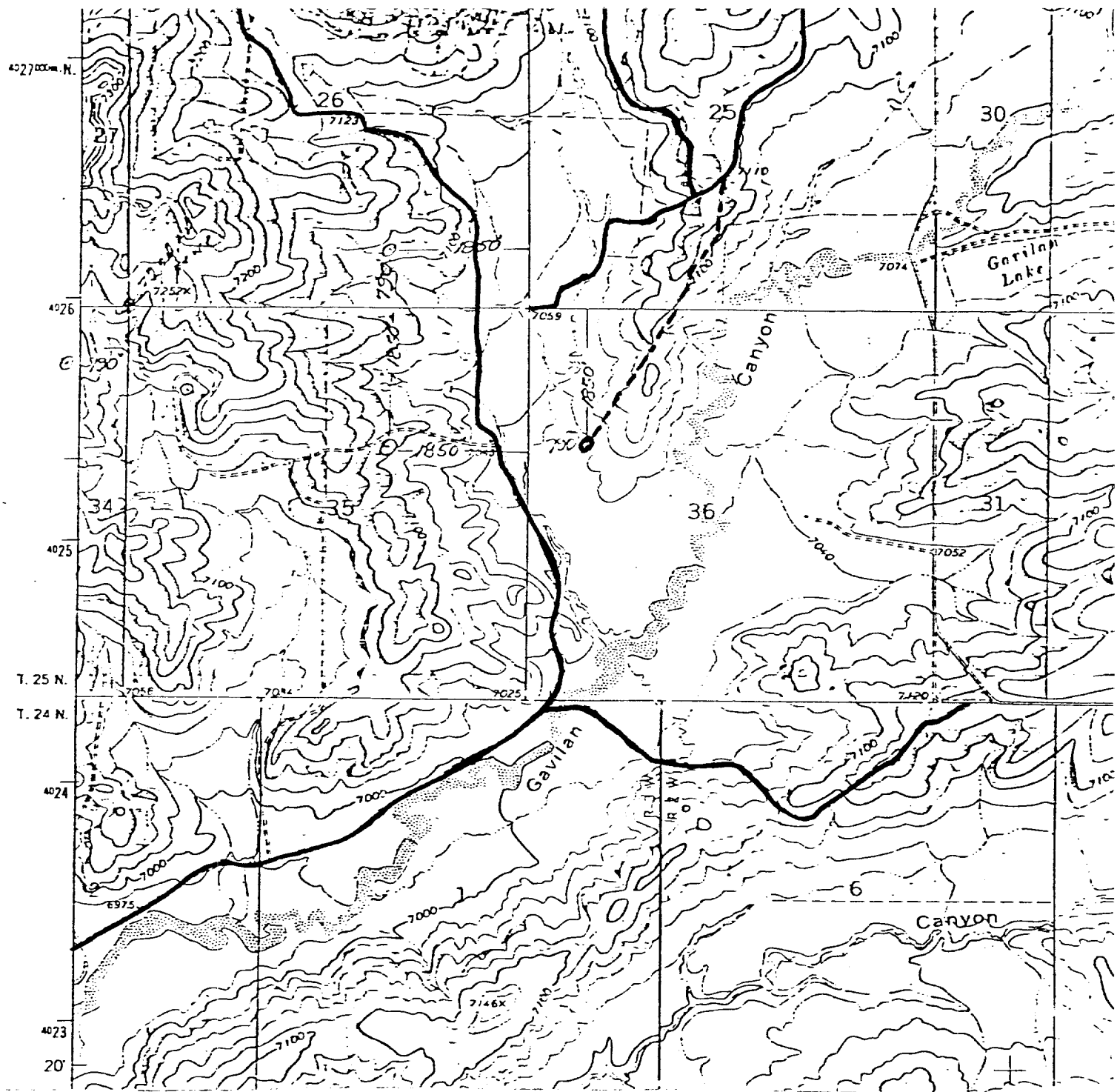


Date Surveyed
25 September 1978

Registered Professional Engineer and Land Surveyor
James P. Leese

Certificate No.
1463





N

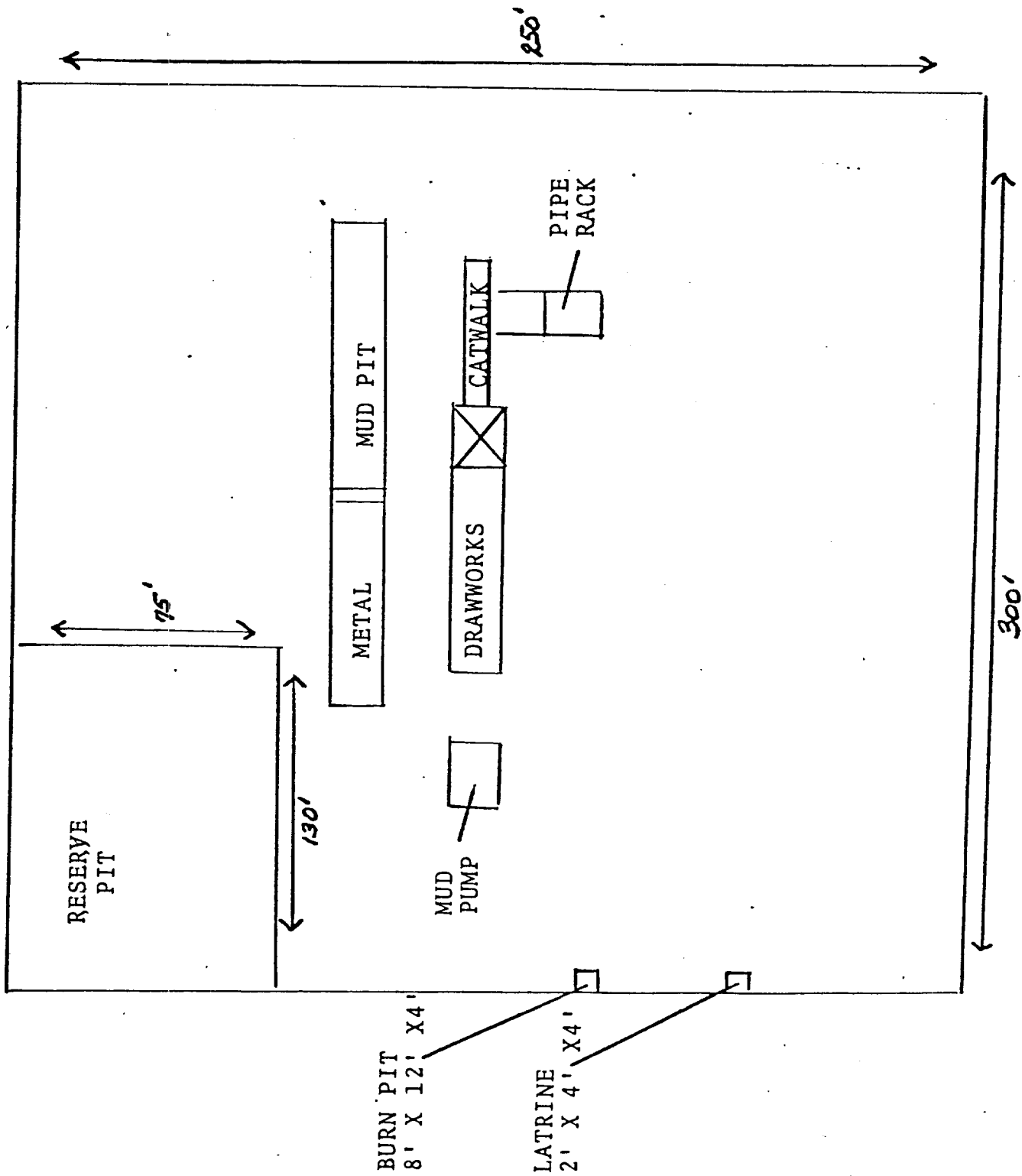


———— Existing Road

----- Proposed Road

Schalk 43-4

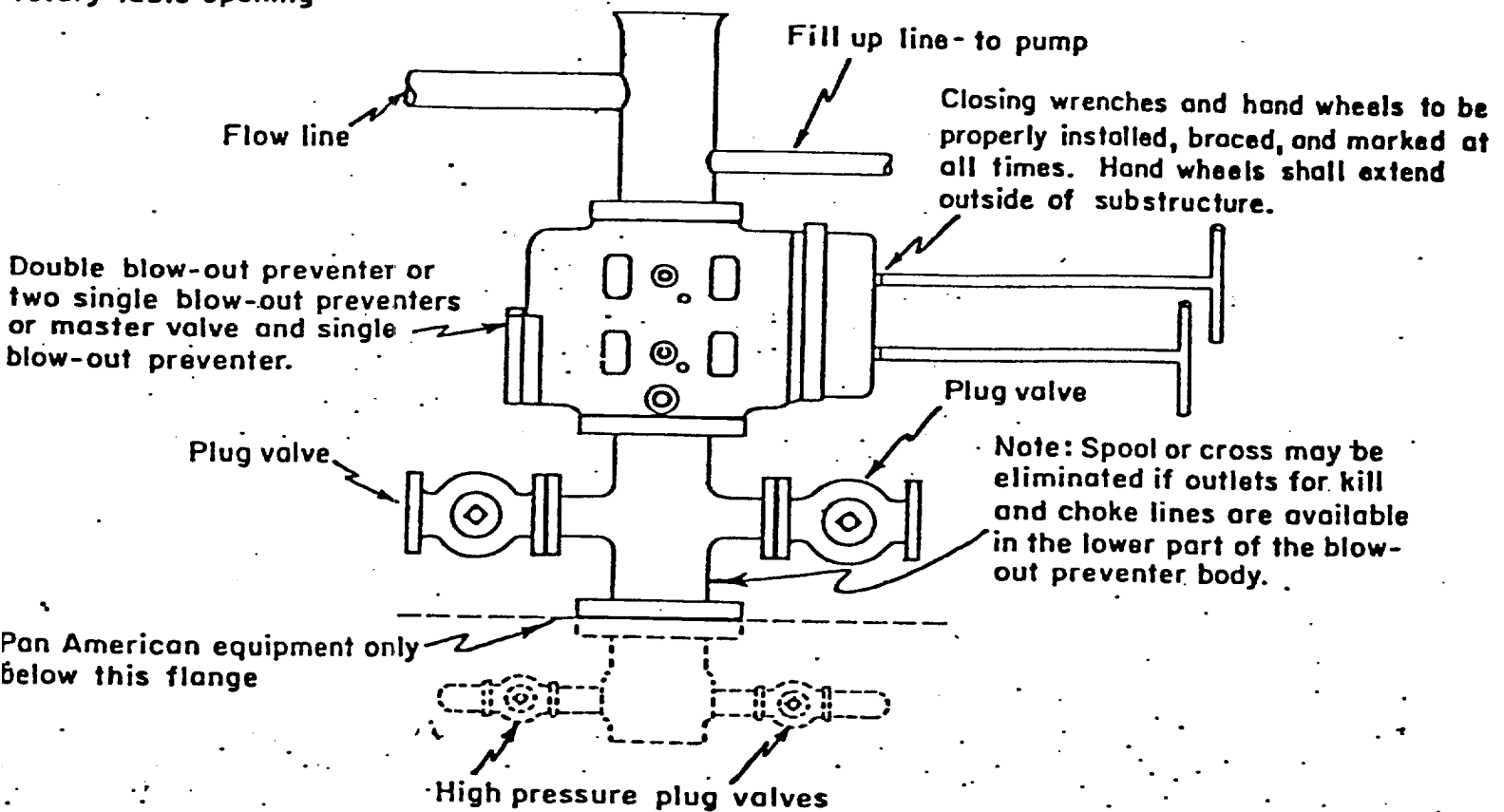
Section 36, Township 25 North, Range 3 West
 1850' From the North line, 790' From the
 West Line
 Rio Arriba County, New Mexico



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




Multi-Point Surface Use and Operations Plan

1. Existing roads: Attached map shows existing road running North-East to Southwest in Section 25.
2. Planned Access road: Will depart from main (existing) road in Section 25 and run 4000' Southwest to proposed sight in Section 36.
3. Location of Existing wells: W M Gallaway #1 Myers, Section 35, Township 25 North, Range 3 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 a water hole 9 miles away and transported by truck to 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 approximately 2' per 100' to the Southwest. There will be approximately a 2' cut on the Northeast side of the proposed location. Vegetation is sage brush, Pinon, Snake-weed, and 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; or J. 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.

DATE 10/06/78



John E. Schalk
Schalk Development Co.
Managing Partner

Report 78-SJC-189
Permit - Private

An Archaeological Clearance Survey of
Four Proposed Well Locations & Access Roads
Conducted for Arapaho Drilling Company

Susan Barnett
Cultural Resource Management
San Juan Campus
N. M. State University

27 September 1978

An Archaeological Clearance Survey of
Four Proposed Well Locations & Access Roads
Conducted for Arapaho Drilling Company

On September 25, 1978, Susan Barnett of the Cultural Resource Management Program, NMSU, San Juan Campus, conducted an archaeological clearance survey at the request of Mr. John Ahlm of Arapaho Drilling Company. Present during the survey were Mr. Ahlm and surveyors from San Juan Engineering.

METHODOLOGY

The four well locations were surveyed by walking parallel transects about 50 feet apart over the easements. The access roads were surveyed by walking down the centerline.

GENERAL RECOMMENDATIONS

No cultural resources were observed on the well locations or the access roads. Therefore, full archaeological clearance is recommended for all locations.

Proposed Well: SCHALK #43-1

Land Status: Private

Location: SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 26, Township 25 North, Range 3 West, N.M.P.M., in Rio Arriba County, New Mexico. The well will be 790 feet from the south line and 1850 feet from the east line of Section 26. An area 300 X 300 feet was surveyed. (Figure 1)

Access: A road about 2000 feet long and 20 feet wide, approaching the location from the southeast was surveyed. The road edges along a plowed and seeded field.

Terrain: Gently sloping to the southwest with alluvial surface deposits.

Soil: Sandy clayey loam.

Vegetation: ^uPinon, juniper, sage, snakeweed, grasses. Planted field is rye grass.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: SCHALK #43-2

Land Status: Private

Location: NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 34, Township 25 North, Range 3 West, N.M.P.M., in Rio Arriba County, New Mexico. The well will be 790 feet from the north line and 790 feet from the east line. A 300 X 300 foot area was surveyed. (Figure 1)

Access: An existing road goes to the location.

Terrain: On the edge of a southwest draining arroyo near the top. Surface deposits are alluvial.

Soil: Sandy clayey loam.

Vegetation: ^uPinon, juniper, sage, scrub oak, snakeweed, and grasses.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: SCHALK #43-3

Land Status: Private

Location: SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 35, Township 25 North, Range 3 West, N.M.P.M., in Rio Arriba County, New Mexico. The well will be 1850 feet from the north line and 1850 feet from the east line of Section 35. A 300 X 300 foot area was surveyed. (Figure 1)

Access: A 200 foot road, 20 feet wide approaching the location from the north.

Terrain: Gently sloping to the east with alluvial surface deposits.

Soil: Sandy clayey loam.

Vegetation: ^uPinon, sage, snakeweed, and grasses.

Cultural Resources: One Black on White sherd was found on the access road. Nothing found on the location.

Recommendations: Clearance is recommended.

Proposed Well: SCHALK #43-4

Land Status: Private

Location: SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 36, Township 25 North, Range 3 West, N.M.P.M., in Rio Arriba County, New Mexico. The well will be 1850 feet from the north line and 790 feet from the west line of Section 36. A 300 X 300 foot area was surveyed. (Figure 1)

Access: 1500 feet long and 20 feet wide, approaching the location from the west.

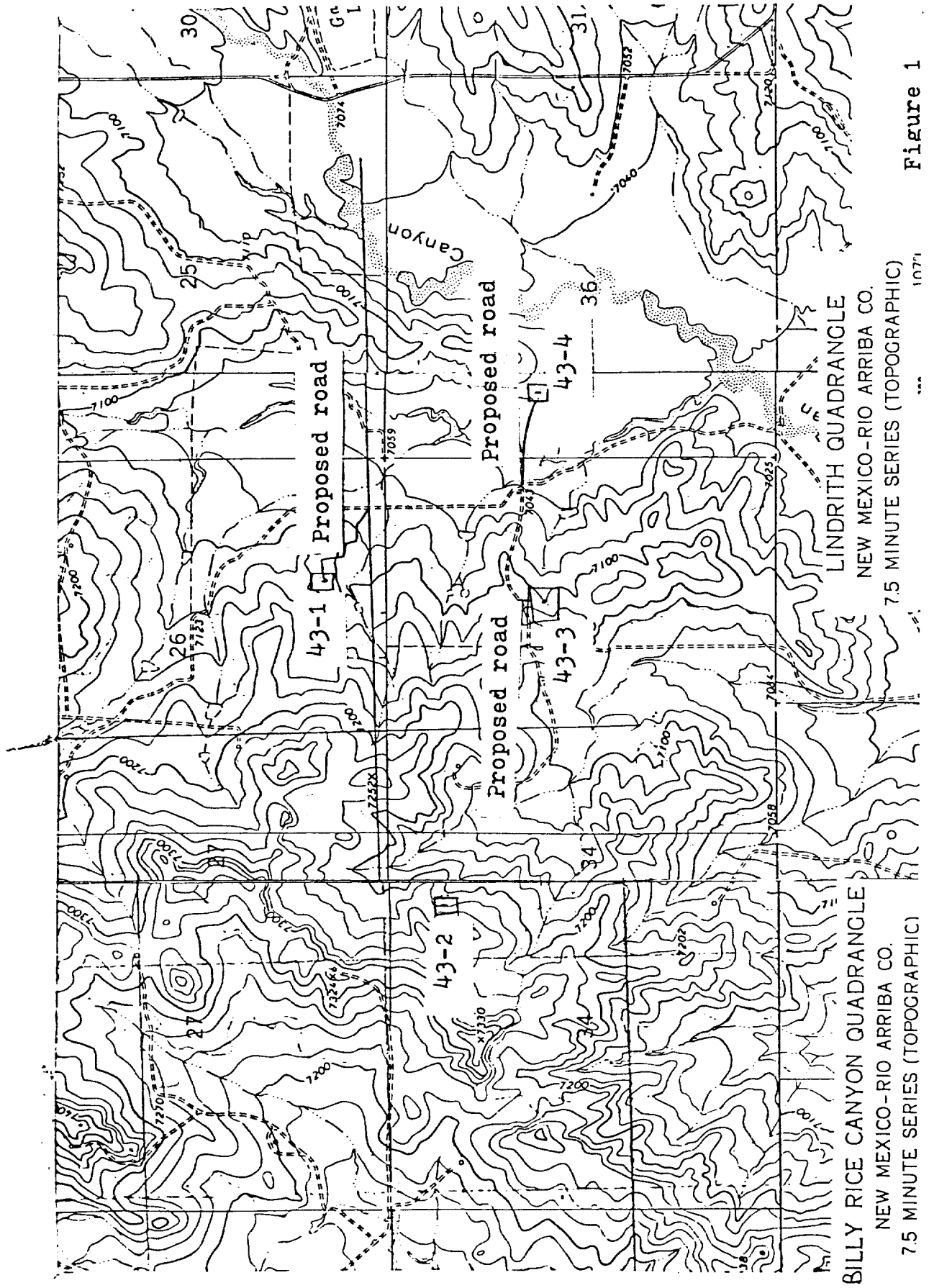
Terrain: Gently sloping to the southwest with alluvial surface deposits.

Soil: Sandy clayey loam.

Vegetation: Sage, piñon, grasses, snakeweed.

Cultural Resources: None found.

Recommendations: Clearance is recommended.



SAN JUAN CAMPUS

4601 College Boulevard
Farmington, New Mexico 87401
Telephone (505) 325-7556



3 October 1978

Mr. John Ahlm
Arapaho Drilling Company
3200 South Side River Rd.
Farmington, New Mexico 87401

Re: ERRATUM for Report 78-SJC-189

Dear Mr. Ahlm,

In our report 78-SJC-189 'An Archaeological Clearance Survey of Four Proposed Well Locations & Access Roads Conducted for Arapaho Drilling Company' and dated 27 September 1978, the following corrections should be noted:

Proposed Well: SCHALK #43-3

Access: 50 feet long and 20 feet wide, approaching the location from the north.

Proposed Well: SCHALK #43-4

Access: 4000 feet long and 20 feet wide, approaching the location from the north northeast. A corrected map is attached.

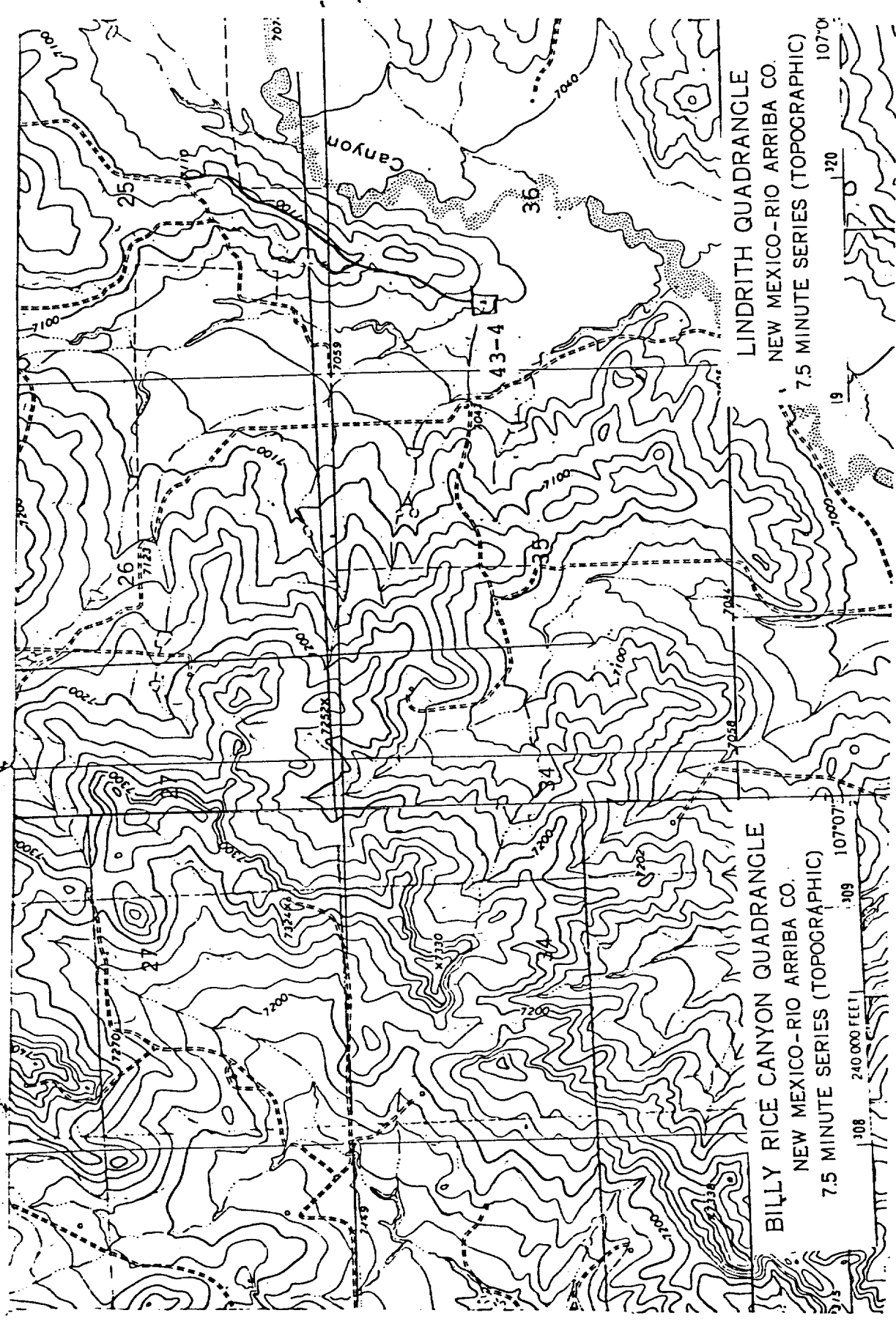
Sincerely,

A handwritten signature in cursive script that reads 'Susan Barnett'.

Susan Barnett
Cultural Resource Management Program

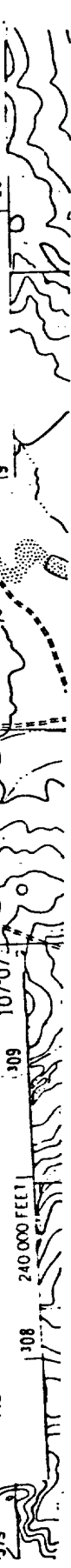
SB:dg

cc: Mr. Ben Phillips, BLM Farmington
Mr. Randy Morrison, BLM Albuquerque



BILLY RICE CANYON QUADRANGLE
NEW MEXICO-RIO ARriba CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

LINDRITH QUADRANGLE
NEW MEXICO-RIO ARriba CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



SURFACE REHABILITATION AGREEMENT

THIS AGREEMENT as of 14 Oct, 1978,
by and between Jack E. Bechdol, hereinafter
called "Surface Owner", and Schalk Development Company,
hereinafter called "Operator".

WITNESSETH:

WHEREAS, Operator desires to construct a location
for the drilling of a natural gas well and/or oil well on
surface land owned by Surface Owner.

NOW, THEREFORE, in consideration of the premises,
Surface Owner and Operator agree as follows:

- 1) Operator will construct or cause to
be constructed an access road to the
proposed location from the nearest
existing road as the terrain will
allow. The road will be permanently
maintained to allow access to the
location throughout the drilling
operation and while the well is in
a producing state.
- 2) Upon completion of drilling operations,
Operator will restore the disturbed
surface area as near as practical to
its original condition, except for
permanent facilities necessary to
producing a natural gas or oil well.
Restoration will follow the guide-
lines as set forth by the U. S.
Geological Survey.

IN WITNESS WHEREOF, the parties hereto have caused
this agreement to be duly executed on the day and year first
above written.

OPERATOR
Schalk Development Company

SURFACE OWNER

BY

John A. Ahlman II

BY

Jack E. Bechdol
Jessie Bechdol