

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

Blackwood & Nichols Co., Ltd.

3. ADDRESS OF OPERATOR

P. O. Box 1237, Durango, Colorado 81301

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

At surface

1475' F/SL - 1045' F/EL

At proposed prod. zone

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

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

2236.44

19. PROPOSED DEPTH

6305'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

E 320

20. ROTARY OR CABLE TOOLS

Rotary

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

6734' GL

22. APPROX. DATE WORK WILL START*

July 20, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	9 5/8"	36.00#	250'	Circulate
8 3/4"	7"	23.00#	3900'	Cement to 2000'
6 1/4"	4 1/2" Liner	10.50#	6305'	Circulate to top of liner

We propose to perforate the Mesaverde Zone and sand-water fracture with 200,000 gals water and 200,000 lbs sand in two stages. Estimated tops: Fruitland 3360', Lewis 3780', Cliffhouse 5480', Point Lookout 5855', Mancos 6075'. A 3000 PSI WP; Series 10" - 900 adapted to Series 10" - 600 and 6" - 600 hydraulic blowout preventer equipped with blind and necessary pipe rams will be used with adequate kill and bleed off lines. A mud of sufficient weight to control the Fruitland will be used, well to be drilled with gas below 7" casing.

Compensated Density Gamma-Neutron logs will be run in open hole.

Blow out preventers will be tested every trip.

gas is dedicated

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

DeLasso Loos

TITLE

District Manager

DATE

4-19-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Erak

*See Instructions On Reverse Side

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 BLACKWOOD & NICHOLS			Lease NORTHEAST BLANCO UNIT		Well No. 19A
Unit Letter I	Section 20	Township 30 N.	Range 7W., N.M.P.M.	County RIO ARRIBA	

Actual Footage Location of Well:
1475 feet from the **south** line and **1045** feet from the **east** line

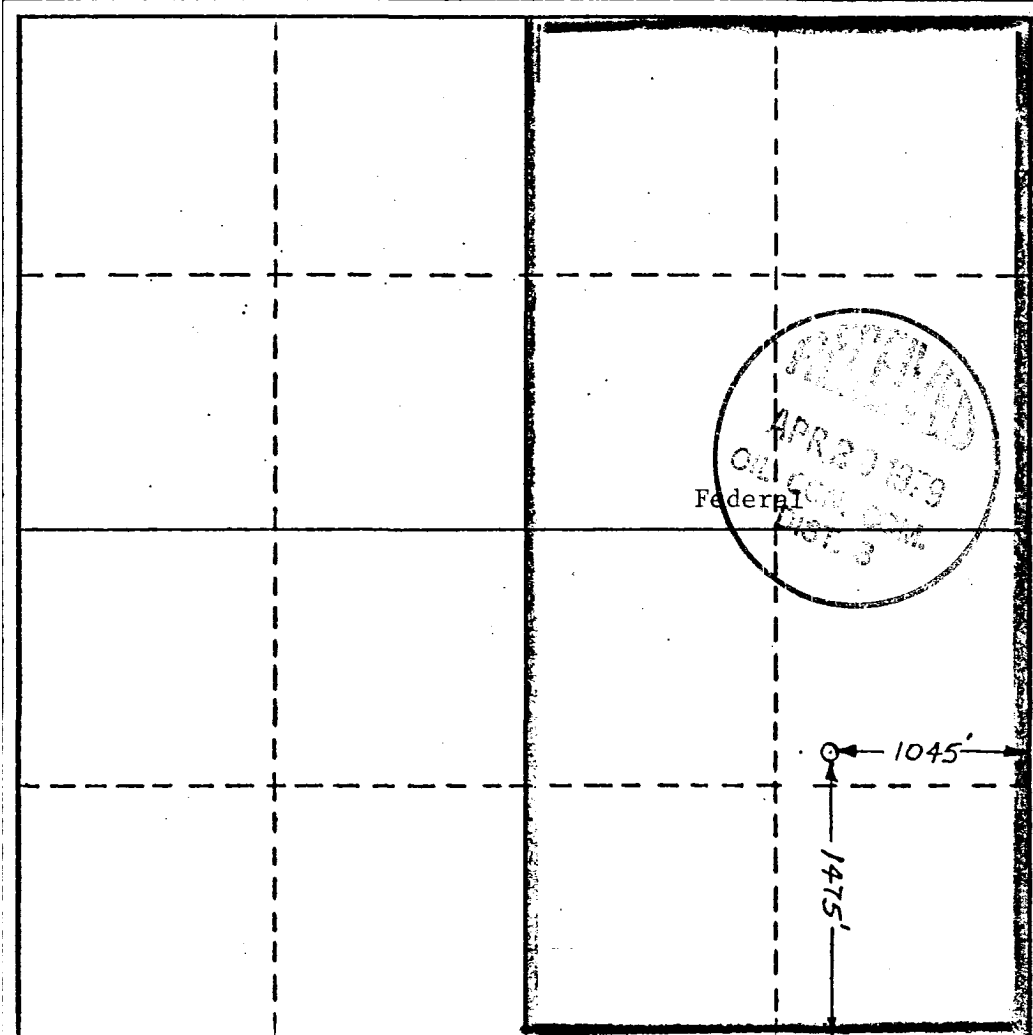
Ground Level Elev. 6734 UG	Producing Formation Mesaverde	Pool Blanco-Mesaverde	Dedicated Acreage: 320 Acres
--------------------------------------	---	---------------------------------	--

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Unitization

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.

DeLasso Loos
Name

DeLasso Loos

Position

District Manager

Company

Blackwood & Nichols Co., Ltd.

Date

4-19-79

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

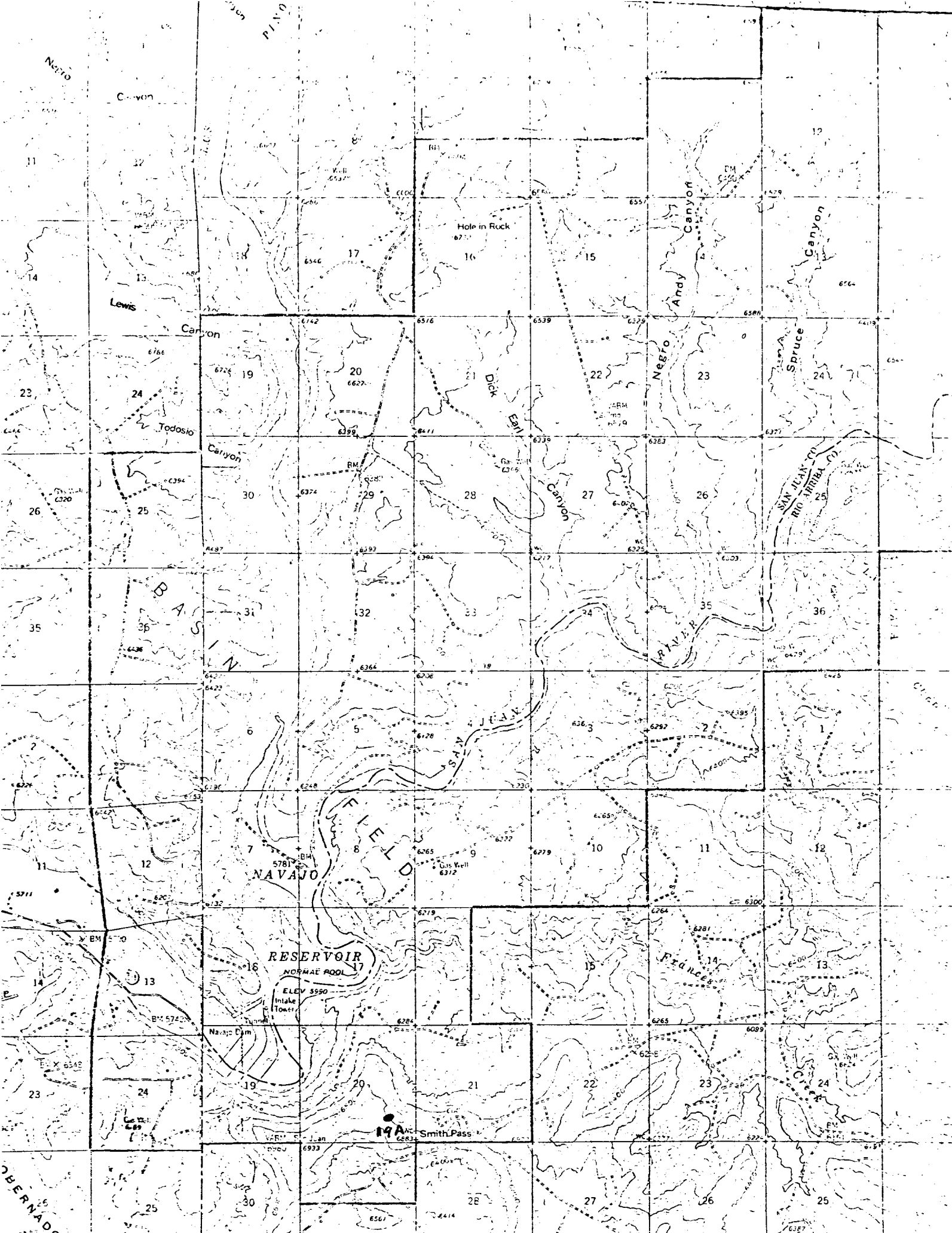
April 13, 1979

Registered Professional Engineer and/or Land Surveyor

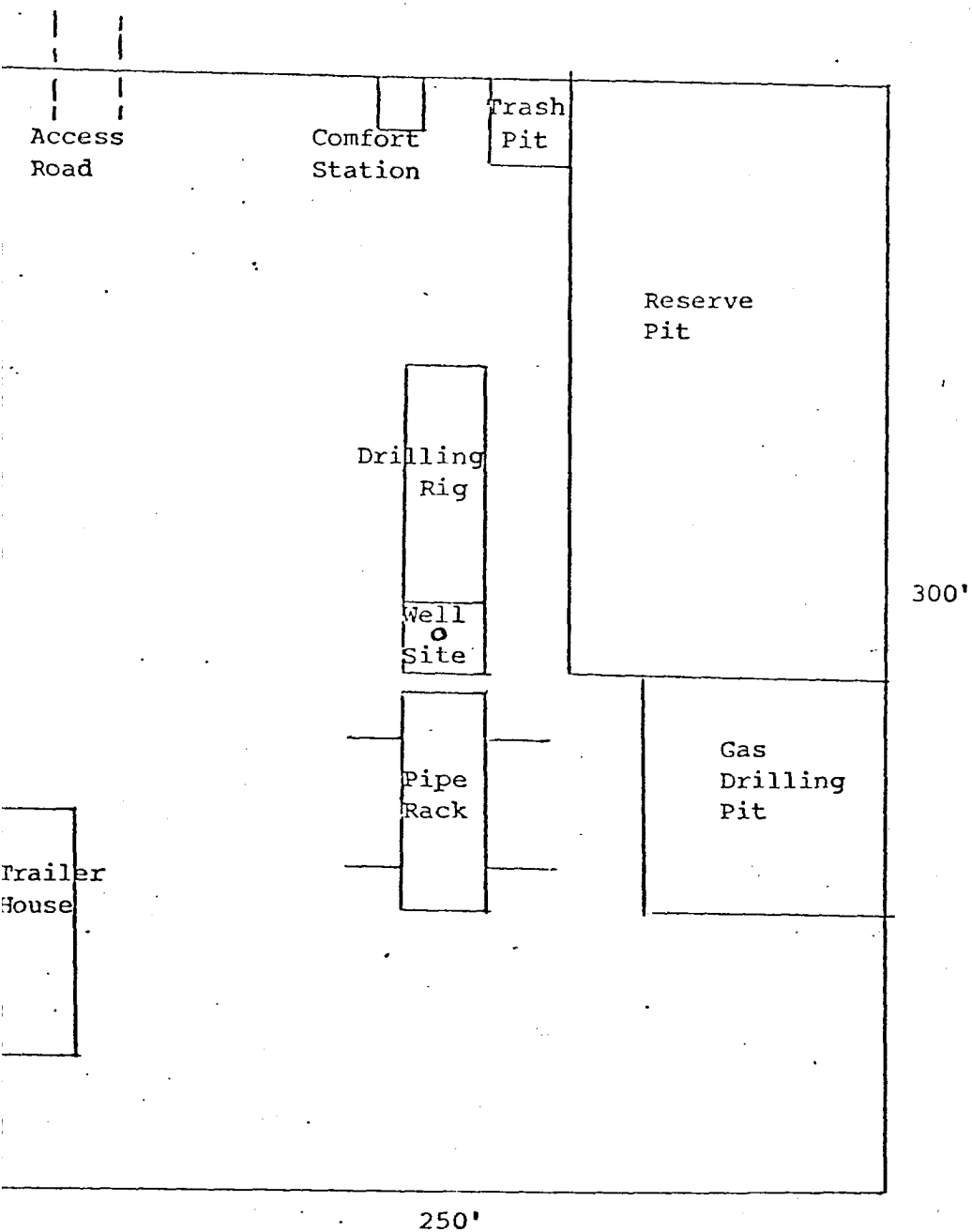
John A. Broeger, LS
John A. Broeger, LS

Certificate No.

1941



Blackwood & Nichols Co., Ltd.
Northeast Blanco Unit Well No. 64A
1475' F/SL - 1045' F/EL I-20-30N-7W
Rio Arriba County, New Mexico



BLACKWOOD & NICHOLS Co., LTD.

P. O. BOX 1237

DURANGO, COLORADO 81301

(303) 247-0728

April 19, 1979

APR 19 1979

United States Geological Survey
Federal Building
701 Camino Del Rio
Durango, Colorado 81301

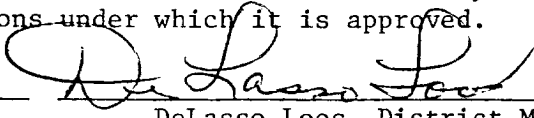
Gentlemen:

Blackwood & Nichols Co., Ltd., as operator of the Northeast Blanco Unit, proposes to drill the Northeast Blanco Unit Well No. 19A as an infill well located in the SE/4, Sec. 20-30N-7W, Rio Arriba County, New Mexico. The well will be completed in the Mesaverde Zone.

Attached are maps and other data pertinent to the Development Plan for Surface Use.

- I. Existing roads: See attached U.S.G.S. topographic map.
- II, III, IV, VI and IX: See attached maps.
- V. Water will be hauled by truck transport from the Navajo Lake approximately four miles north of the location.
- VII. Waste material will be placed in a reserve pit and later buried or burned.
- VIII. Camp or airstrip will not be necessary.
- IX. See attached map of well site layout. (Not to scale)
- X. Upon completion the location will be leveled to its original state. The access road will remain. The location will be seeded, as per the Bureau of Land Management requirements.
- XI. The location is relatively level and covered with Cedar and Pinon trees which will be disposed of as per the Bureau of Land Management requirements; an archaeological clearance will be obtained.
- XII. DeLasso Loos, 1032½ Main Street, Durango, Colorado 81301; Telephones: Office: 303-247-0728; Home: 303-247-2345.
- XIII. I hereby certify that I, or persons under my direct supervision 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 Blackwood & Nichols Co., Ltd., and its contractors and subcontractors in conformity with this plan and terms and conditions under which it is approved.

Date 4-19-79


DeLasso Loos, District Manager

DL:lr
Attachments