

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 1790' F/SL - 970' F/EL
At proposed prod. zone Same

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
16. NO. OF ACRES IN LEASE 616.32
17. NO. OF ACRES ASSIGNED TO THIS WELL 295.22
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6065'
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6321' UG
22. APPROX. DATE WORK WILL START* February 25, 1978

7. UNIT AGREEMENT NAME Northeast Blanco Unit
8. FARM OR LEASE NAME Northeast Blanco Unit
9. WELL NO. 30A
10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA I-12-30N-8W
12. COUNTY OR PARISH San Juan
13. STATE New Mexico

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"	32.00#	250'	Circulate
8-3/4"	7"	23.00#	3590'	Cement to 1800'
6-1/4"	4-1/2"	10.50#	6065'	Cement to 3350'

We propose to perforate the Mesaverde Zone and sand-water fracture with 200,000 gallons water and 200,000 lbs sand in two stages.

Estimated tops: Fruitland 2255', Lewis 3485', Cliffhouse 5095', Menefee 5155', Point Lookout 5450', Mancos 5615'.

A 3000 PSI WP; Series 10" - 900, adapted to 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 will be drilled with gas below 7" casing point.

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. *DeLasso Loos* DeLasso Loos TITLE District Manager DATE January 18, 1978

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY: _____

RECEIVED
JAN 19 1978

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

*See Instructions On Reverse Side

NW 11 561

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. 30-A
Unit Letter I	Section 12	Township 30 N.	Range 8W., N.M.P.M.	County SAN JUAN	
Actual Footage Location of Wells: 1790 feet from the south line and 970 feet from the east line					
Ground Level Elev: 6321 UG	Producing Formation Mesaverde		Pool Blanco-Mesaverde ✓	Dedicated Acreage: 295.22 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 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.

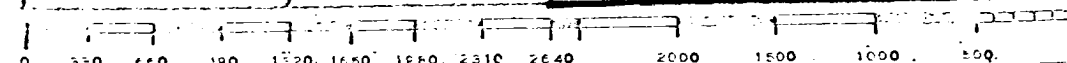
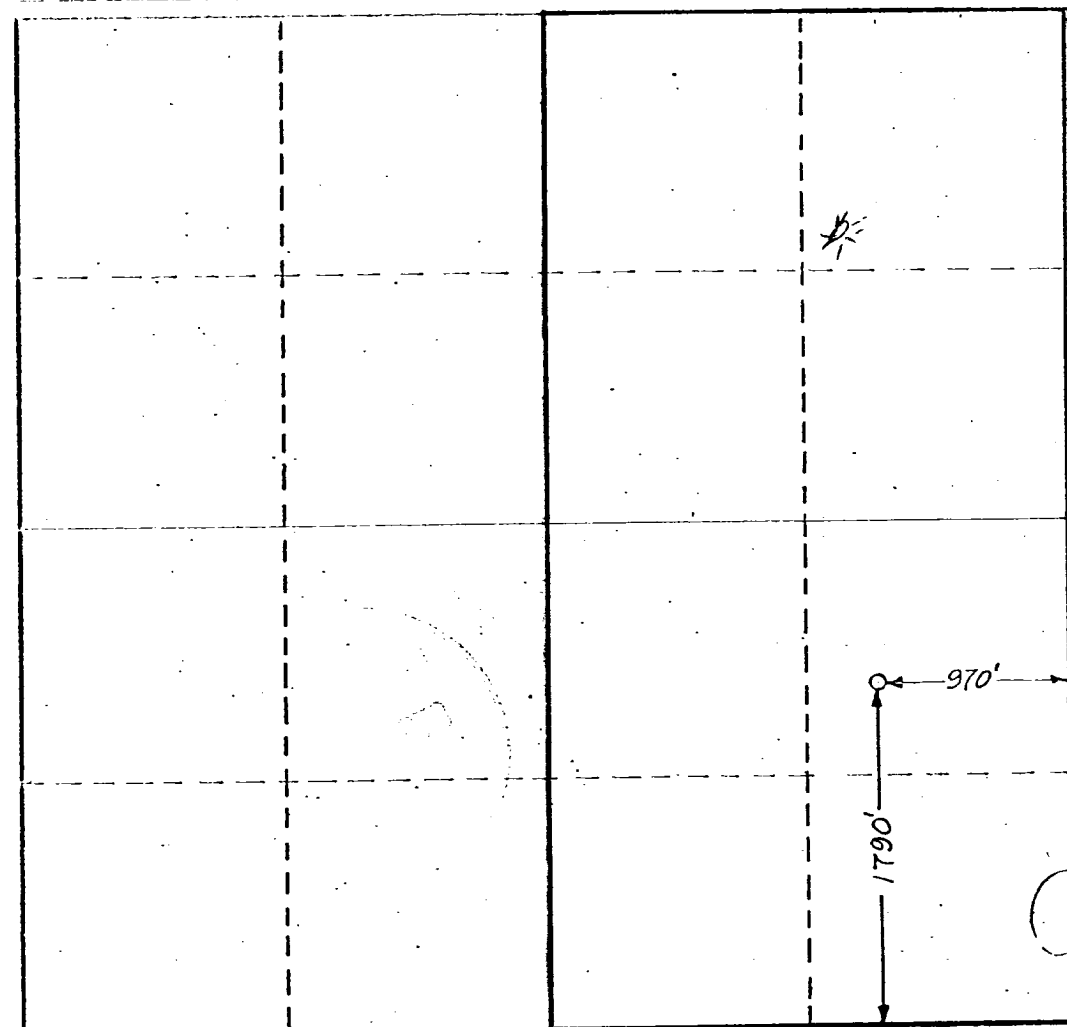
Name DeLasso Loos
Position District Manager
Company Blackwood & Nichols Co., Ltd.
Date 1-18-78

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.

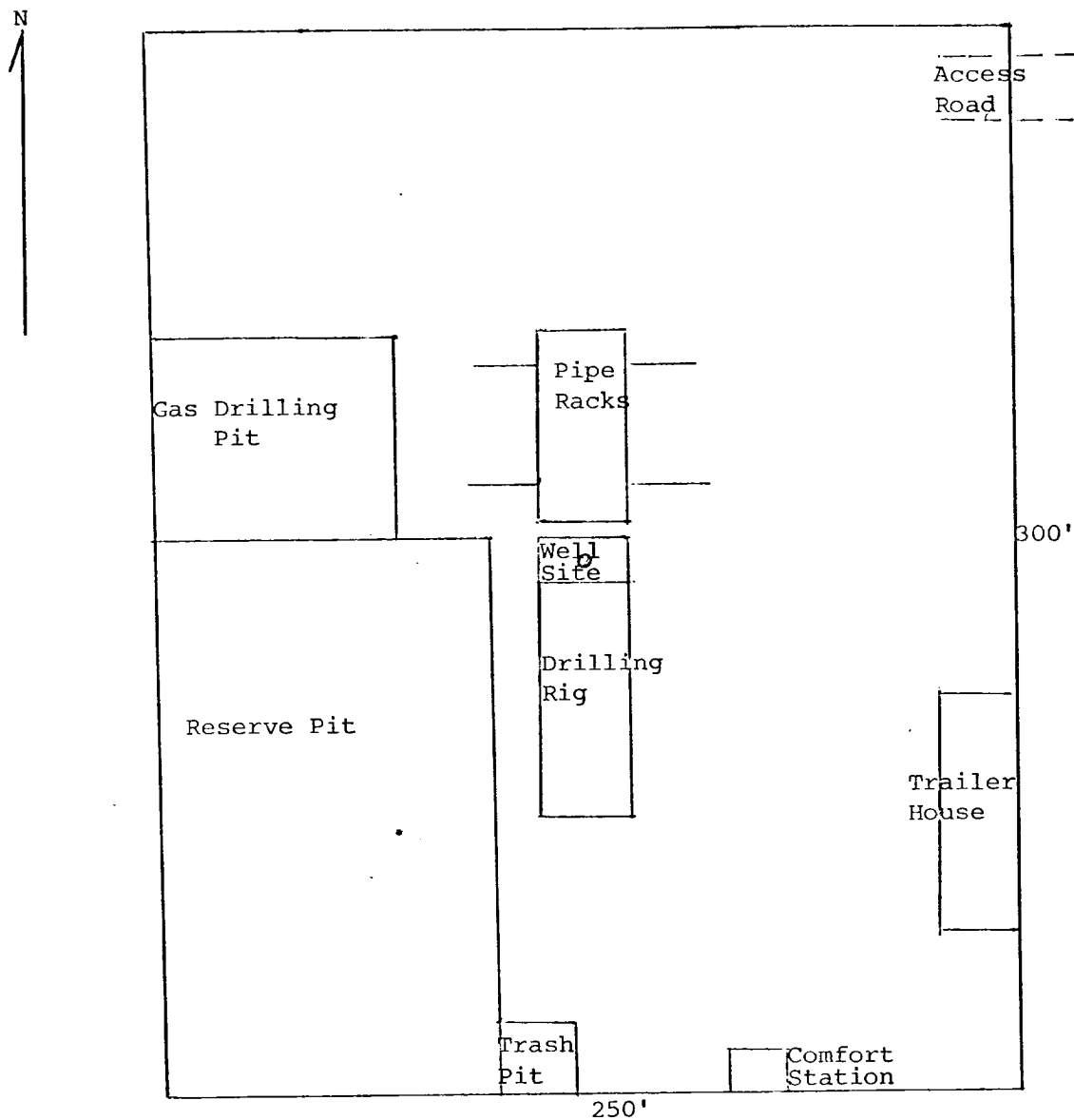
December 7, 1977

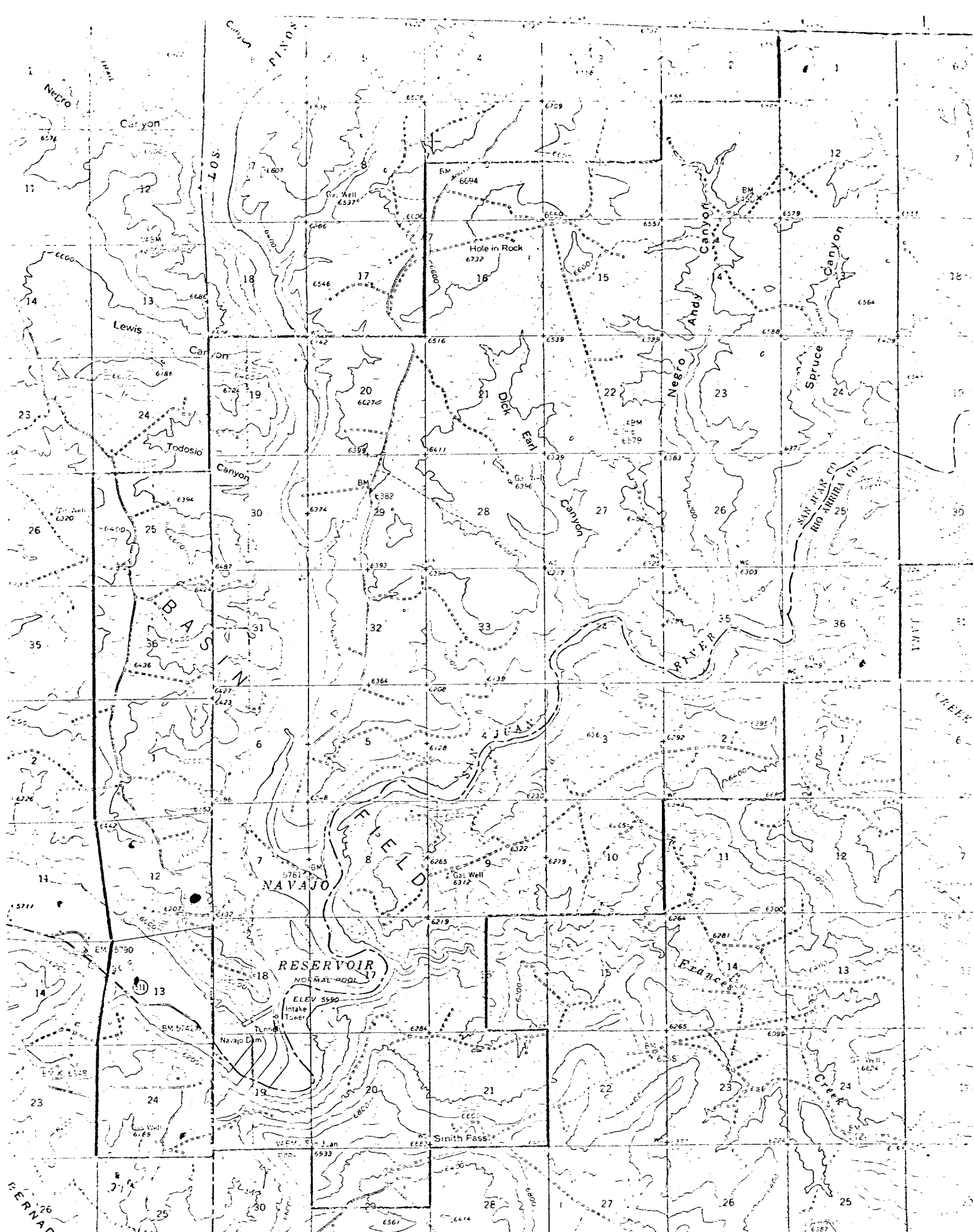
Date Surveyed
John A. Kroeger
Registered Professional Engineer
and/or Land Surveyor
John A. Kroeger, L.S.
Cert. No. 1941

Certificate No.



BLACKWOOD & NICHOLS CO., LTD.
Northeast Blanco Unit No. 30A
1790' F/SL - 970' F/EL I-12-30N-8W
San Juan County, New Mexico





BLACKWOOD & NICHOLS Co., LTD.

P. O. BOX 1237

DURANGO, COLORADO 81301

(303) 247-0728

January 18, 1978

United States Geological Survey
P. O. Box 189
Durango, Colorado 81301


Gentlemen:

Blackwood & Nichols Co., Ltd., as operator of the Northeast Blanco Unit, proposes to drill the Northeast Blanco Unit Well No. 30A as an infill well. Located in the SE/4 - Sec. 12-30N-8W, San Juan 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 San Juan River, approximately four miles southwest 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 sub-contractors in conformity with this plan and terms and conditions under which it is approved.

Date 1-18-78



DeLasso Loos, District Manager

DL:lr
Attachments