

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-22463

5. LEASE DESIGNATION AND SERIAL NO.

N00 C 14-20-5604

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

E-Ton-Na-Gah 8

9. WELL NO.

#43

10. FIELD AND POOL, OR WILDCAT

Lybrook Gallup Ext

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

Sec. 8 - T23N - R7W

12. COUNTY OR PARISH 13. STATE

Rio Arriba

New Mexico

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

AUG 1980

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Dietrich Exploration

U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C.

3. ADDRESS OF OPERATOR

410 17th Street - Suite 2450, Denver, Colorado 80202

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

At surface

2090' from South line and 450' from East line

At proposed prod. zone

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

1 1/2 miles Northwest of Lybrook

15. DISTANCE FROM PROPOSED*

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

450'

16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

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

None

19. PROPOSED DEPTH

5700'

20. ROTARY OR CABLE TOOLS

Rotary

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

7113' ground

22. APPROX. DATE WORK WILL START*

10-1-80

DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WITH ATTACHED

PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative
appeal pursuant to 30 CFR 290.

"GENERAL REQUIREMENTS"

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8 new	24#	300'	275 sks
7 7/8"	4 1/2 new	10.5#	5700'	1200 sks - 2 stages

Drill 12 1/4" hole to 300'. Set 8 5/8" 24# casing and cement with 275 sks class B cement with 2% calcium chloride. Drill 7 7/8" hole to 5400' with water. From 5400' to 5700' drill 7 7/8" hole with a low solid non-dispersed mud with wt. 9.0 - 9.3# / gas., 34-40 sec. viscosity and water loss 8-10cc. See the attached sketch for the minimum Blowout Preventer hookup which will be used after 8 5/8" casing is set. When T.D. is reached, run dual induction lateral logs and formation density log with gamma ray and caliper. If electric logs are satisfactory, run 4 1/2" 10.5# casing full depth and cement. Cement to cover the corrosive Mesa Verde formation. Perforate pay zones, frac treat, and place on production. No abnormal pressures, temperatures or hazards are expected.

Estimated tops of geologic markers:

Fruitland - 1872'

Picture Cliffs - 2034'

Chacra - 2454'

Cliff House - 2894'

Pt. Lookout - 4290'

Mancos - 4604'

Gallup - 5410'

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 Agent

DATE

(This space for Federal or State office use)

AS AMENDED

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL (IF ANY):

DISTRICT ENGINEER

NMOCC

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

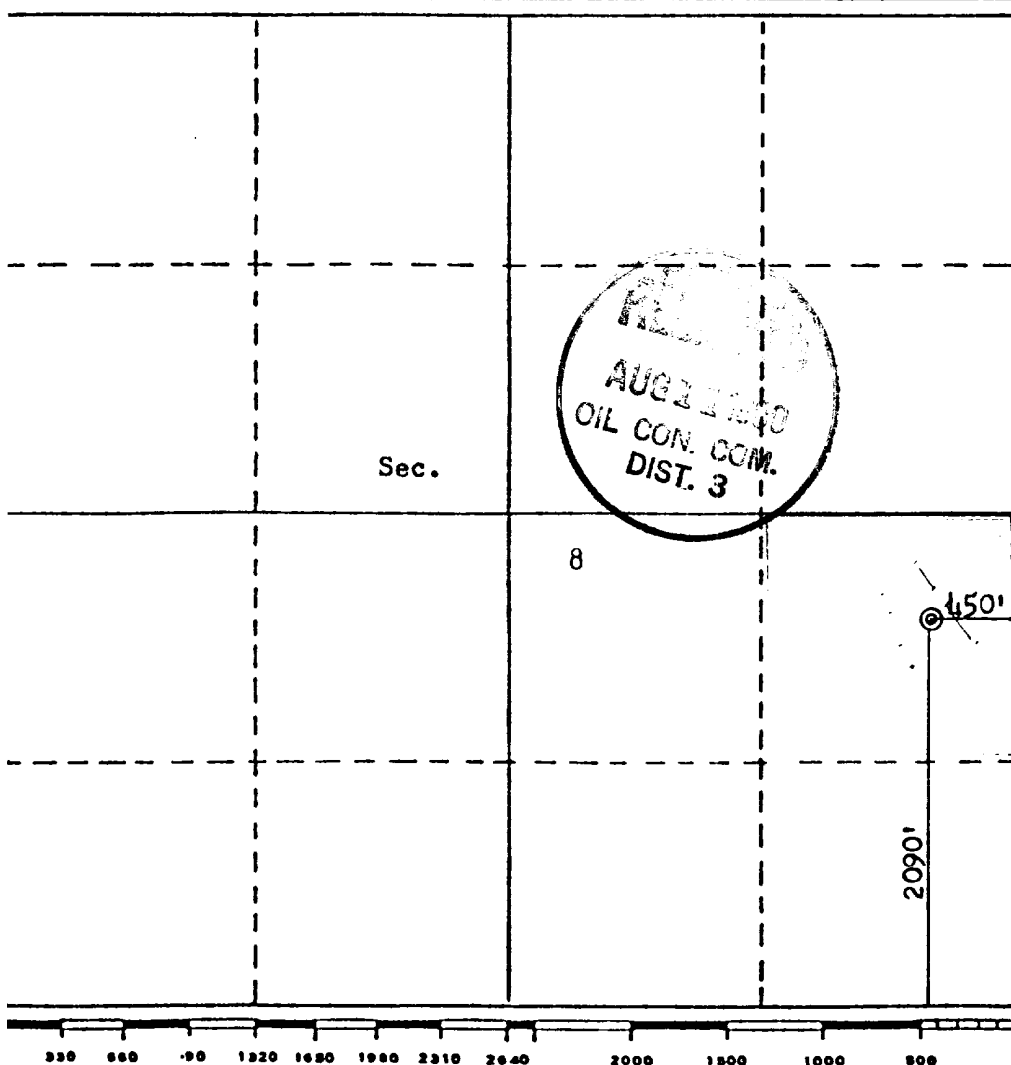
Operator DIETRICH EXPLORATION COMPANY, INC.			Lease E-TON-NA-GAH 8		Well No. 43
Well Letter I	Section 8	Township 23N	Range 7W	County Rio Arriba	
Well Location of Well:					
2090 feet from the South line and		450 feet from the East line			
Ground Level Elev. 7113	Producing Formation Gallup	Pool Lybrook	Dedicated Acreage: Ext 40		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 _____

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

AGENT

Position

Dietrich Exploration Co.
Company

Date

8-2-80

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

May 10, 1980
Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr, Jr.


Certificate No. **3950**



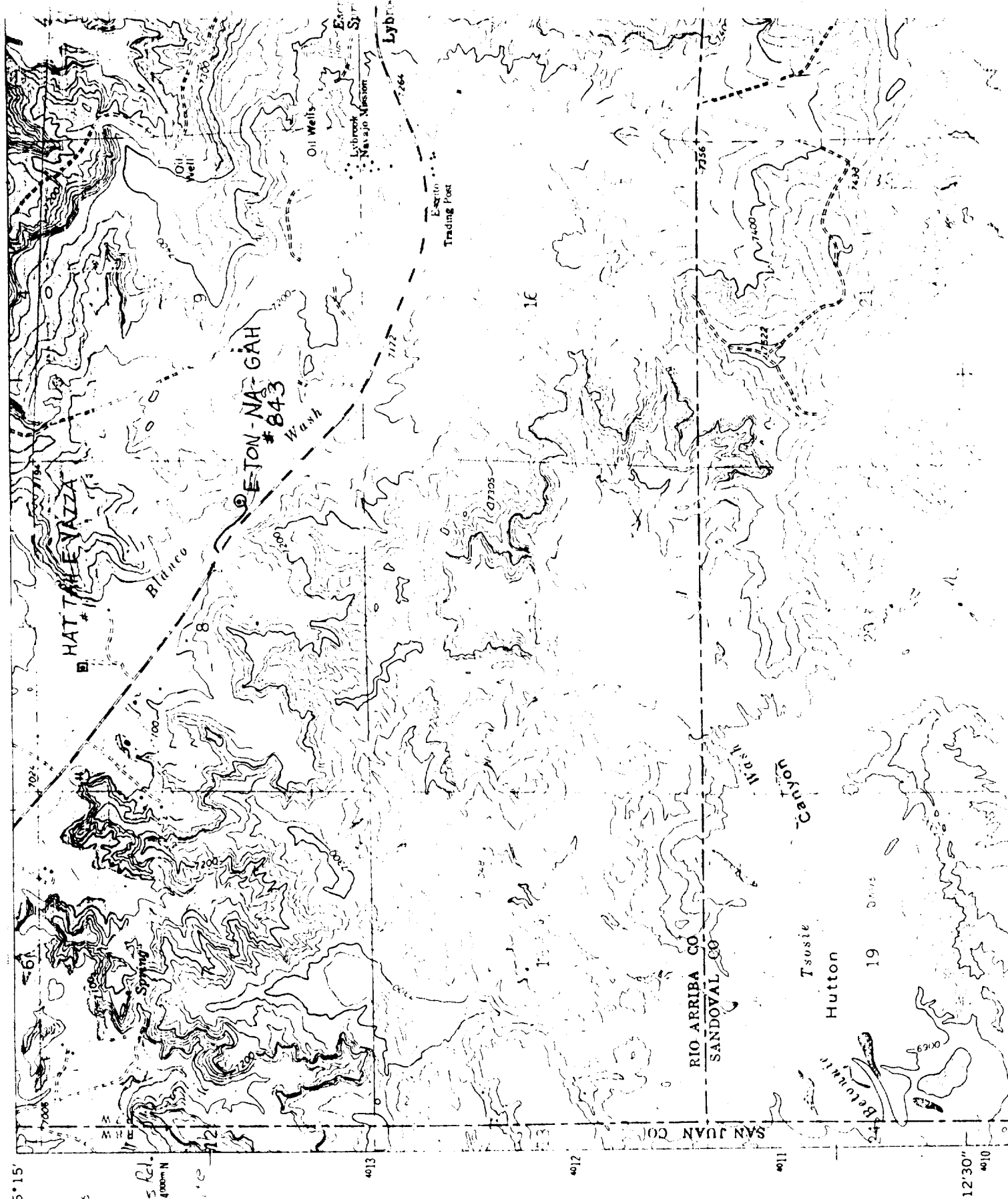
Vicinity Map for
DIETRICH EXPLORATION CO., INC. #43 E-TON-NA-GAH 8
2090'FSL 450'FEL Sec. 8-T23N-R7W
RIO ARRIBA COUNTY, NEW MEXICO

1. Existing roads - shown on the enclosed topographic map (Exhibit A)
2. Planned access road - See enclosed map (Exhibit A). Roads will be 20' wide with culverts installed as necessary.
3. Location of existing wells - shown on the enclosed topographic map. (Exhibit A)
4. Existing production facilities owned by this operator are on the location of the Hat Tah E Yazzie #1, which consists of a heat treater, tank and gas compesser station. Location shown on exhibit A.
5. Location and type of water supply - A natural spring on Val Chapman's property located at Escrito Trading Post approximately 1 mile to the Southeast.
6. Construction Materials - none required
7. Waste Disposal - A burn pit will be provided for disposal of trash. A reserve pit will be used to dispose of drilling fluid and cuttings.
8. Ancillary facilities - None required.
9. Well Site Layout - See enclosed plat (Exhibit B)
10. Surface restoration - When pits are in suitable condition they will be filled. All disturbed surfaces not used after drilling and completion will be graded to blend into the natural terrain and seeded.
11. Other information - See Archaeological Survey
12. Operator's Representative - J D Hicks, P. O. Box 174, Farmington, New Meixco 87401
Phone - 327-4902 and 325-3950
13. Ceritfication: 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 Dietrich Exploration Company, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

8/2/80
Date

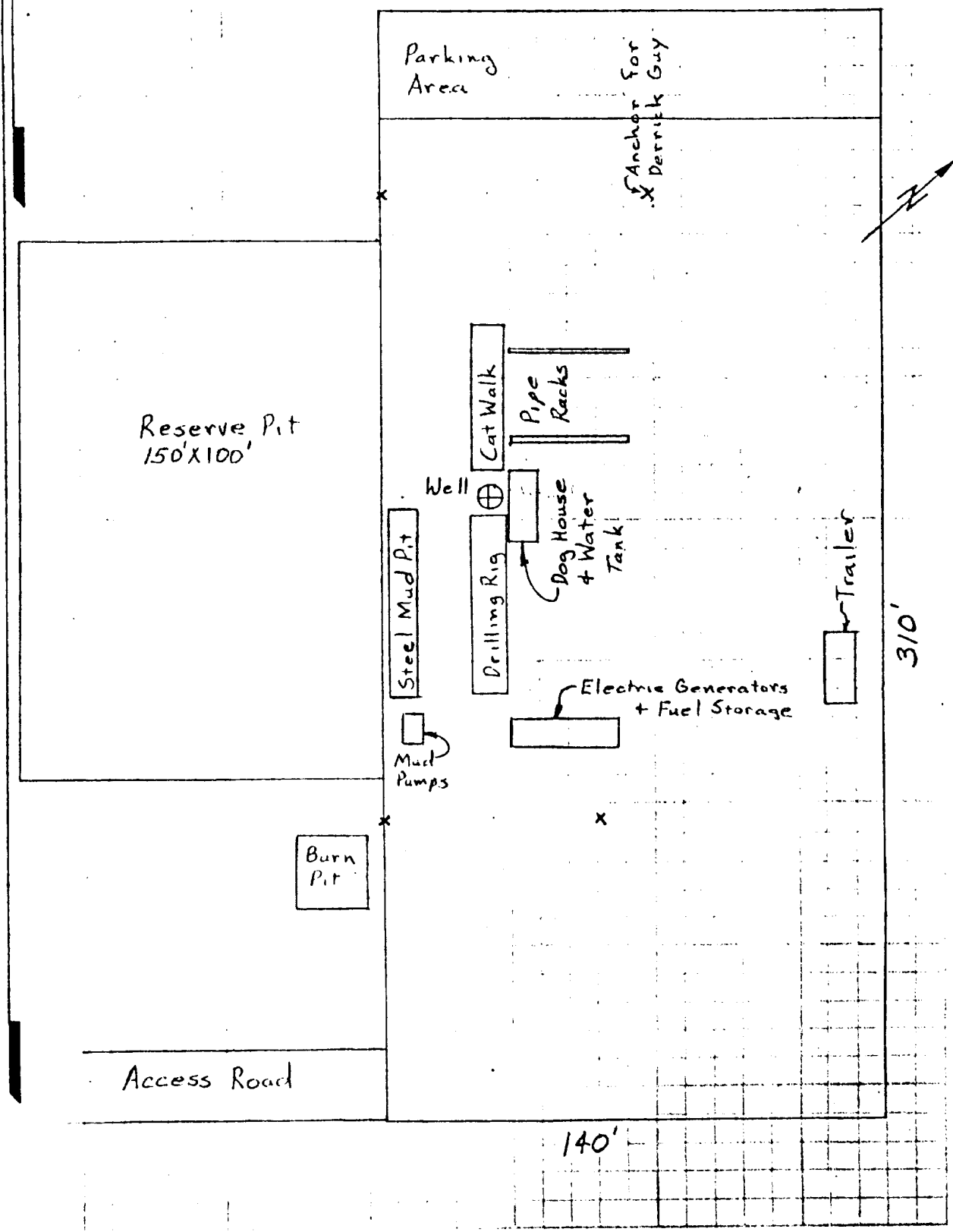
 Agent
Name and Title

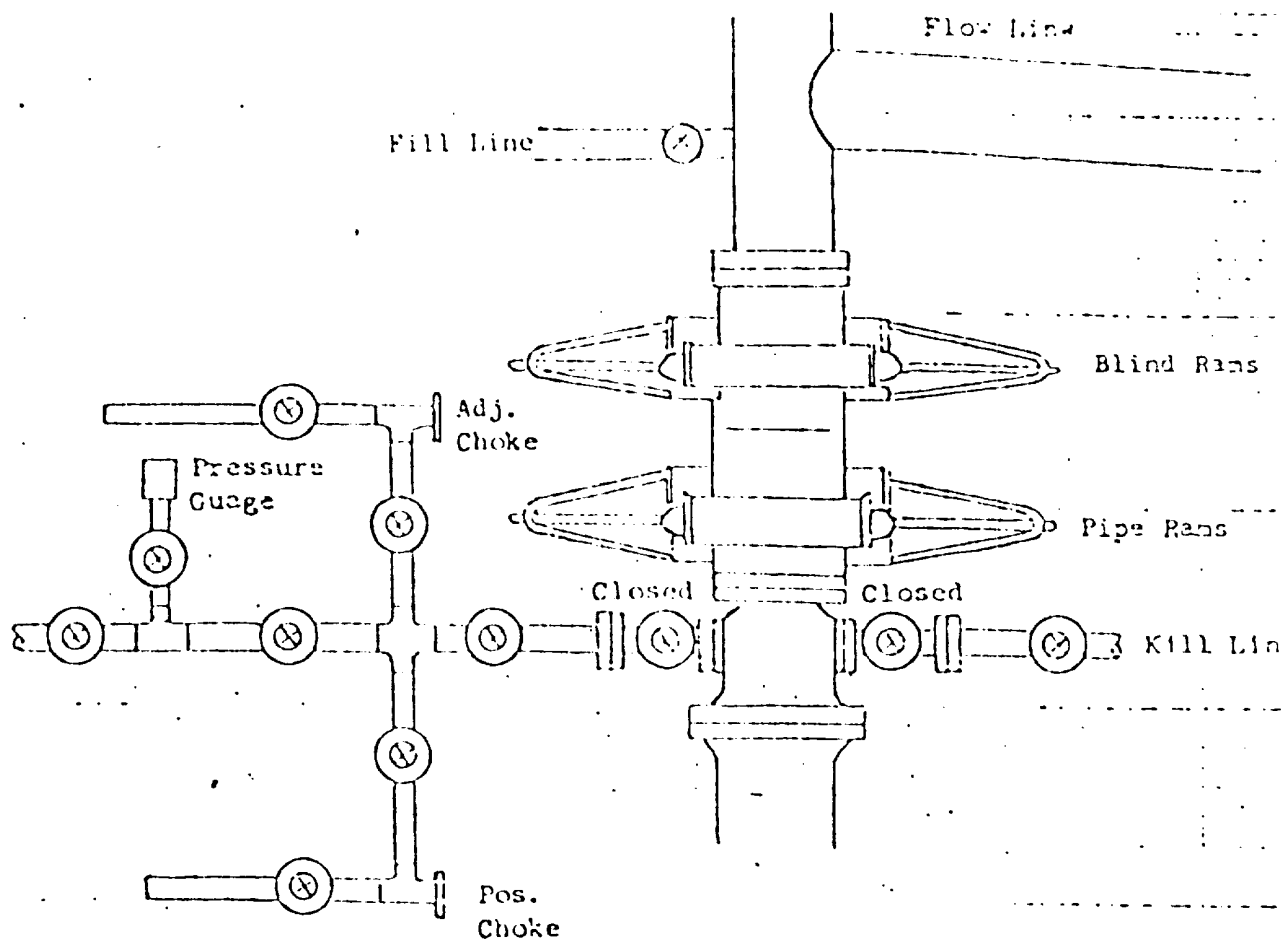
④



DATE _____ WELL NO. 843 LEASE ETON NAGAH FIELD Lybrook Gallup

Drilling Well Site Layout





All valves 2"

All BCPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

HICKS ENCO, INC.
FARMINGTON, NEW MEXICO

REQUIRED MINIMUM BLOWOUT PREVENTOR

ROOKUP

E. San Juan Plateau - 875

Report 8Q-SJC-219
Permit 80-NM-004
79-NM-123 with
Navajo Tribal Consent
to Issuance #52

An Archaeological Clearance Survey of
Two Proposed Well Locations & Access Roads
Conducted for Dietrich Exploration Company, Inc.

Ruth Henderson
Cultural Resource Management
San Juan Campus
New Mexico State University

29 July 1980

An Archaeological Clearance Survey of
Two Proposed Well Locations & Access Roads
Conducted for Dietrich Exploration Company, Inc.

On 8 July 1980, Ruth Henderson from the Cultural Resource Management Program, New Mexico State University, San Juan Campus, conducted an archaeological clearance survey of two proposed well locations and access roads for Dietrich Exploration Company, Inc. at the request of Mr. J. D. Hicks from Hicks, Enco, Inc.

Present during the survey were Mr. Hicks, Mr. Steve Shafran from the U.S. Geological Survey - Farmington office, and Mr. Davey Morris from the Bureau of Indian Affairs - Navajo Agency in Crownpoint.

The proposed well locations and access roads are on public land administered by the U.S. Bureau of Land Management and land administered by the Navajo Tribe, and were surveyed under Federal Antiquities permits 80-NM-004 and 79-NM-123 with Navajo Tribal Consent to Issuance #52.

METHODOLOGY

Each well location was surveyed by walking parallel transects, seventy-five feet apart, over the 300 by 300 foot easements. The access roads were surveyed by walking the flagged routes from the existing roads to the wells and back.

GENERAL RECOMMENDATIONS

No cultural resources were found during the course of the survey, therefore archaeological clearance is recommended for the inspected areas.

Proposed Well: DIETRICH EXPLORATION / E-TON-NA-GAH 8 #43

Land Status: Navajo Tribe.

Location: The proposed well location is in the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 8, Township 23 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico. The well will be 2090 feet from the south line and 450 feet from the east line of Section 8. (Figure 1)

J.T.M.: Center - 13; 2,67,320 mE; 40,13,500 mN.

Access: 20 feet wide and 2000 feet long, approaching the location from the south.

Area Surveyed: 3.44 acres.

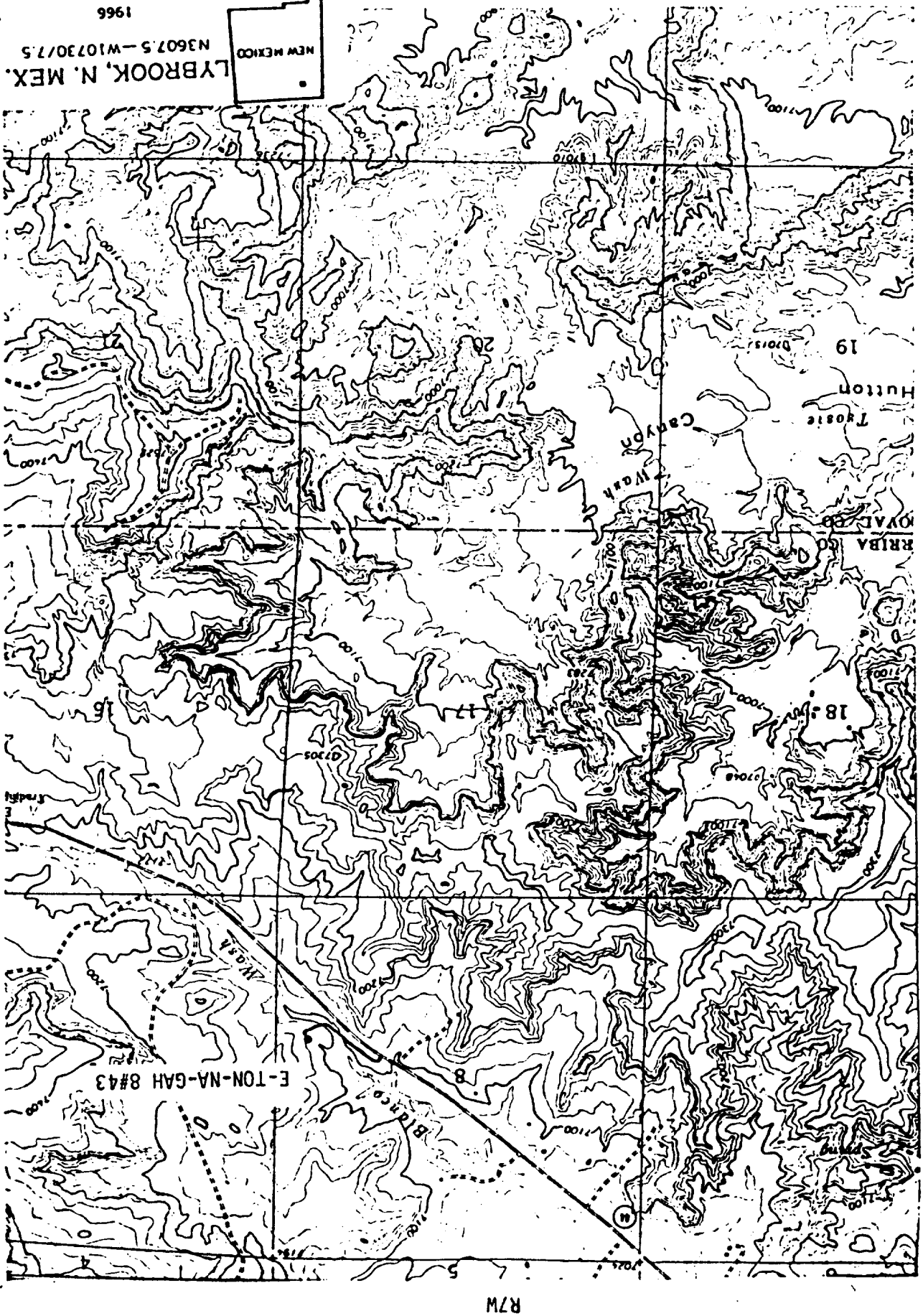
Terrain: Rolling hillslope with southerly drainage and alluvial surface deposits.

Soil: Sandy clayey loam.

Vegetation: Piñon, sagebrush, rabbitbrush, blue grama, narrowleaf yucca.

Cultural Resources: None found.

Recommendations: Clearance recommended.



LYBROOK, N. MEX.
N3607.5-W10730.7.5
1966

