

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

Hicks Enco, Inc.

## 3. ADDRESS OF OPERATOR

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

At surface 1650' North of South line and 2060' West of East Line  
Sec. 8  
At proposed prod. zone

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

10 miles southwest of Farmington, New Mexico

15. DISTANCE FROM PROPOSED\* 657' from North line  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1400'

## 19. PROPOSED DEPTH

5800'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

59.82 89.62

## 20. ROTARY OR CABLE TOOLS

Rotary

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

Ground 5974

## 22. APPROX. DATE WORK WILL START\*

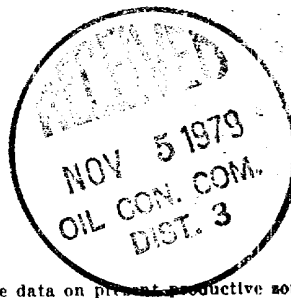
11-15-79

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	250'	250 sks
7 7/8"	5 1/2"	15.5#	5800'	

Drill 12 1/4" hole to 250'. Set 8 5/8" casing. Cement with 250 sks class "B" cement w/ 2% calcium chloride. Drill 7 7/8" hole to 5800'. Use water mud systems as hole conditions dictate. Run electric logs. Run 5 1/2" 15.5# casing to total depth. Cement with sufficient volume to cover Mesa Verde section. Perforate Gallup pay zones. Frac treat perforated interval. Place on production.



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

D. Hicks

TITLE

President

DATE 10-26-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Nwa R-1968

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-101  
Revised 10-1-

All distances must be from the outer boundaries of the Section

Operator HICKS ENCO, INCORPORATED			Lease SOUTHEAST CHA CHA Unit		Well No. 36
Unit Letter J	Section 3	Township 23N	Range 13W	County San Juan	
Actual Footage Location of Well:					
2650 feet from the South line and		2060 feet from the East line			
Ground Level Elev. 5974	Producing Formation Gallup	Pool Cha Cha Gallup		Dedicated Acreage: 89.62 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.

*J. D. Hicks*  
Name J. D. Hicks

PRESIDENT

Position

HICKS ENCO, INC.

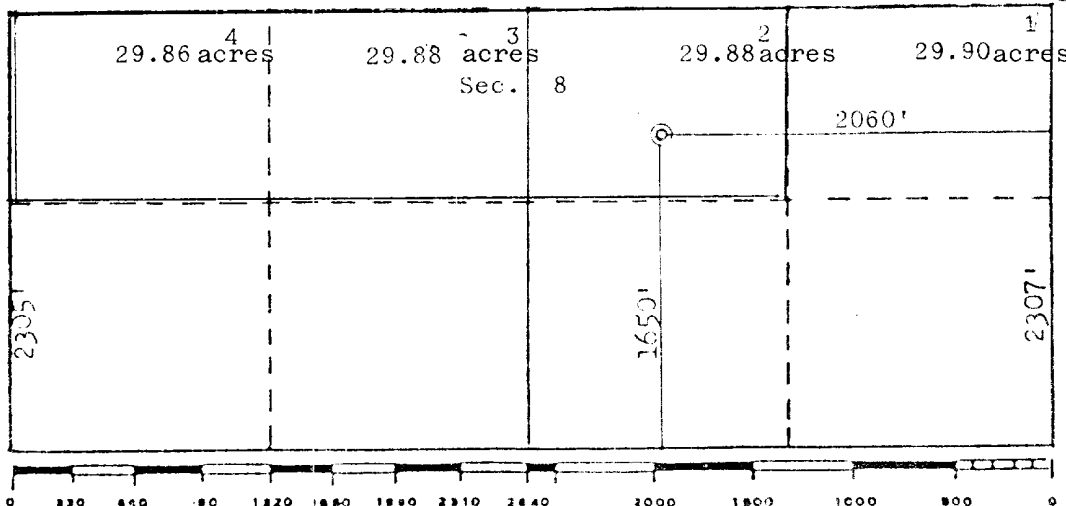
Company

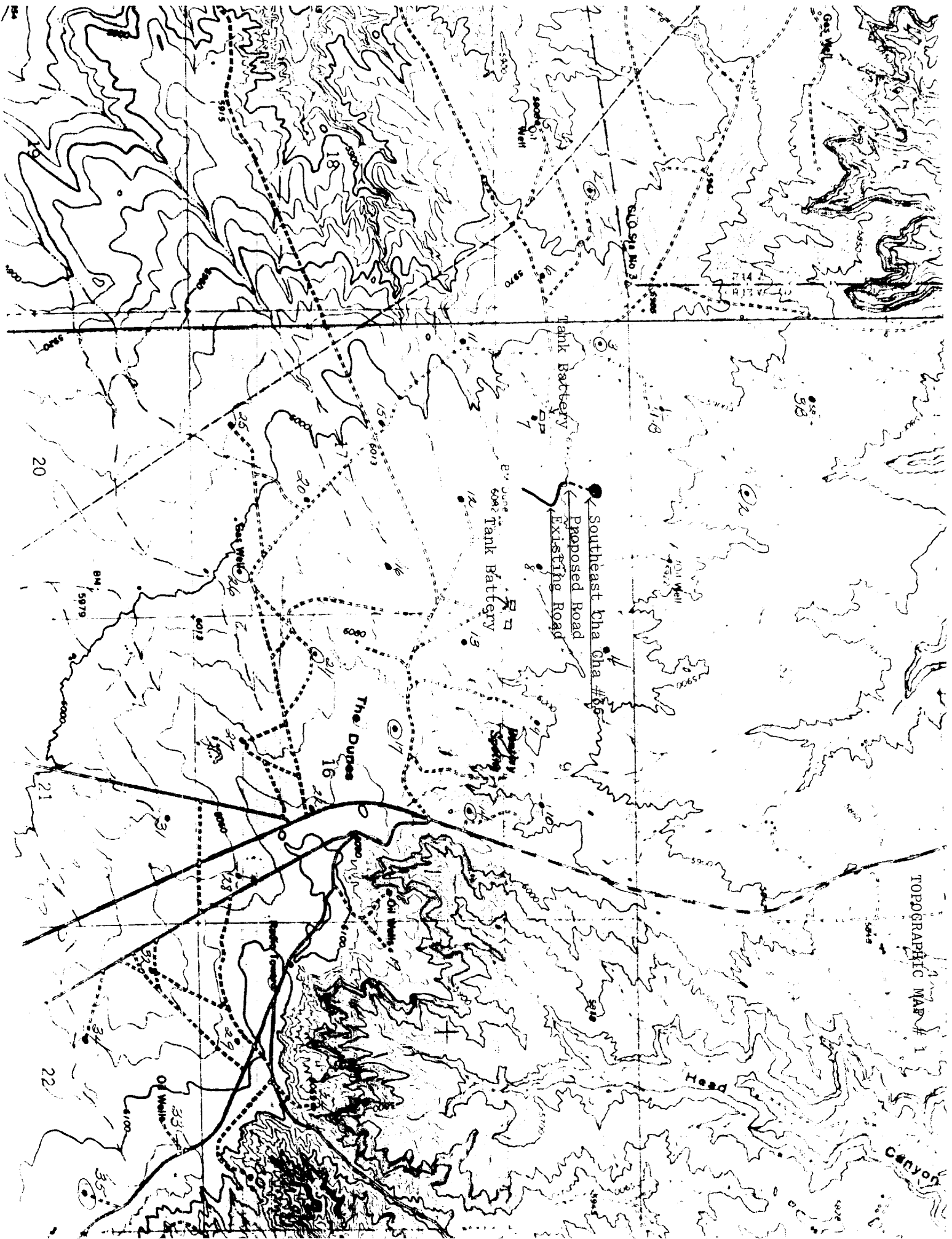
January 2, 1980

Date

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.

REGISTERED LAND SURVEYOR  
STATE OF NEW MEXICO  
Date Surveyed  
October 23, 1979  
Registered Professional Engineer  
and Land Surveyor  
Fred B. Kerr, Jr.  
Certificate No.  
3950





20

21

22

HICKS ENCO, INC.

CALCULATION SHEET

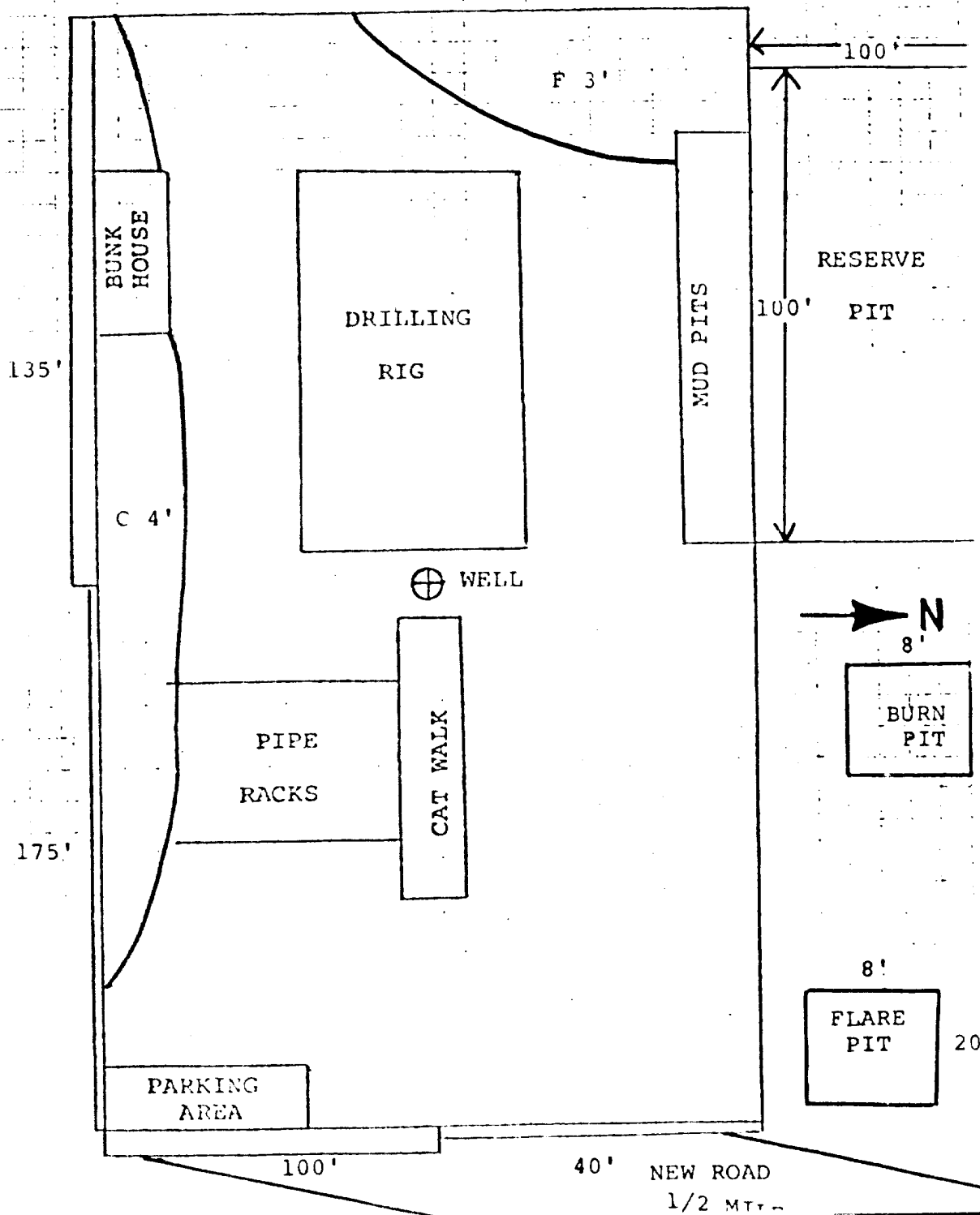
PANY

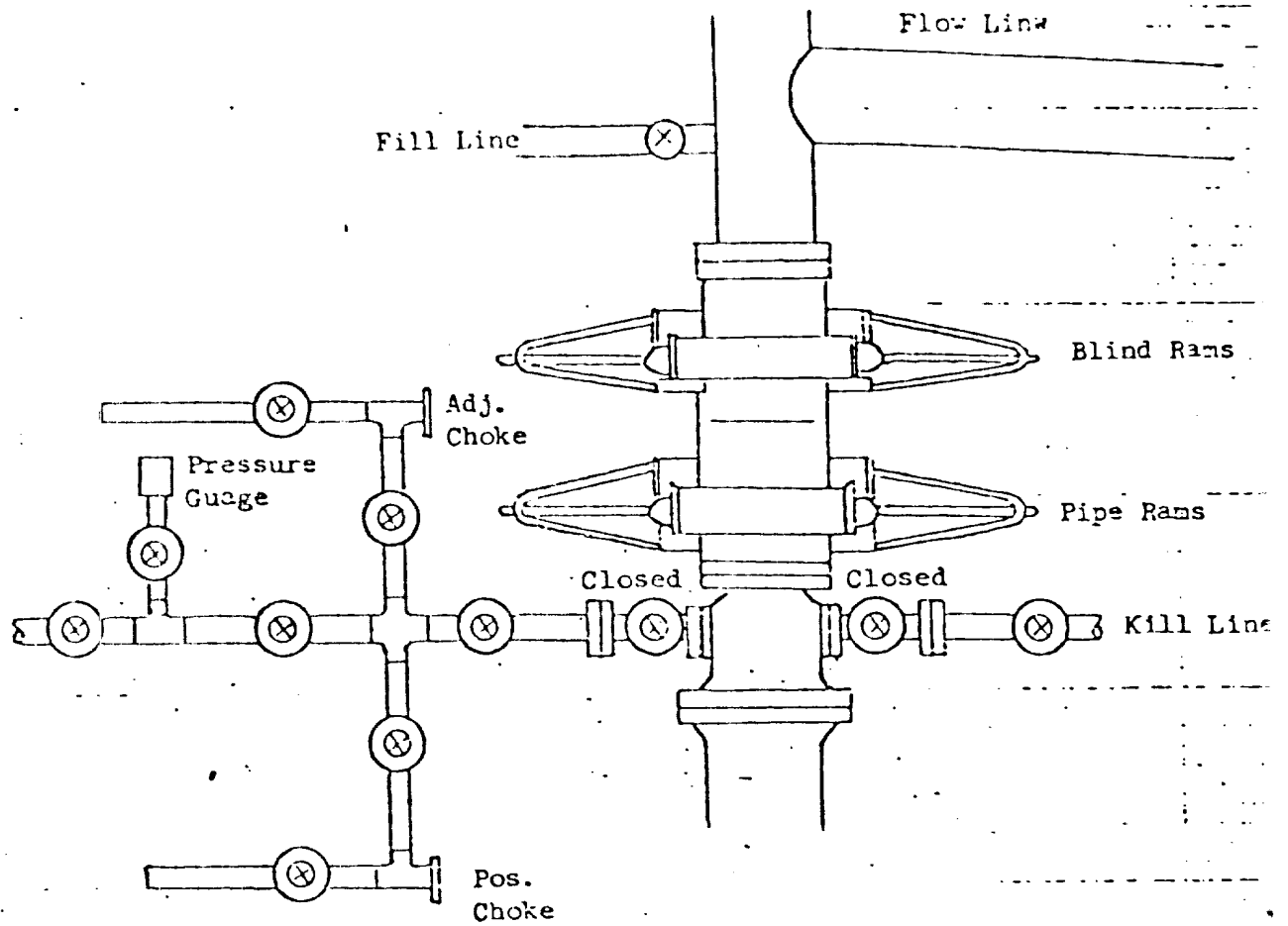
JECT DRILLING WELL SITE LAYOUT Southeast Cha Cha #36

ATION Sec. 8 T28N R13W

SAN JUAN COUNTY, N. MEXICO

DATE 10-79





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

Report 79-SJC-295  
Permit 79-NM-123 and Navajo Tribal  
Consent to Issuance #52  
79-NM-141

An Archaeological Clearance Survey of  
Two Proposed Well Locations  
And One Proposed Access Road  
Conducted for Hicks Enco, Incorporated

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

26 October 1979

An Archaeological Clearance Survey of  
Two Proposed Well Locations  
And One Proposed Access Road  
Conducted for Hicks Enco, Incorporated

On October 25, 1979, L. Jean Hooton from the Cultural Resource Management Program, New Mexico State University, San Juan Campus, conducted an archaeological clearance survey at the request of Mr. J. D. Hicks, Hicks Enco, Inc.

Present during the survey were Messrs. J. D. Hicks; Jim Hill, Allen Construction Co.; Andy Stump, U.S. Geological Survey - Farmington office; Bob Marler, Bureau of Land Management - Farmington office; Randy Cornett and Larry Nez, Bureau of Indian Affairs - Shiprock office.

The proposed well locations are on lands administered by the Bureau of Land Management, Federal Antiquities permit 79-NM-141; and the Navajo Tribe, Federal Antiquities permit 79-NM-123 and Navajo Tribal Consent to Issuance #52.

#### METHODOLOGY

The well locations were surveyed by walking parallel transects, 75 feet apart, over a 300 x 300 foot easement. The access road was inspected by walking to and from the well location along the flagged route.

#### GENERAL RECOMMENDATIONS

There were no cultural resources found and archaeological clearance is recommended.

Proposed Well: SOUTHEAST CHA CHA #36 (Figure 1)

Land Status: Bureau of Land Management.

Location: The proposed well will be in the SW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 8, Township 28 North, Range 13 West, N.M.P.M., San Juan County, New Mexico. The location is 1650 feet from the South line and 2060 feet from the East line of Section 8.

Access: 20 feet wide and 400 feet long, approaching from the South.

Area Surveyed: 2.2497 acres.

Terrain: Broken slope with northerly drainage, alluvial and aeolian surface deposits, and exposed sandstone bedrock and gravels.

Soil: Sandy and sandy, clayey loam.

Vegetation: Piñon, juniper, serviceberry, mountain mahogany, bitterbrush, sage, ephedra, rabbitbrush, narrowleaf yucca, pencil cholla, prickly pear, hedgehog, brome galleta, Indian rice-grass, three-awn.

Cultural Resources: None found.

Recommendations: Clearance is recommended.



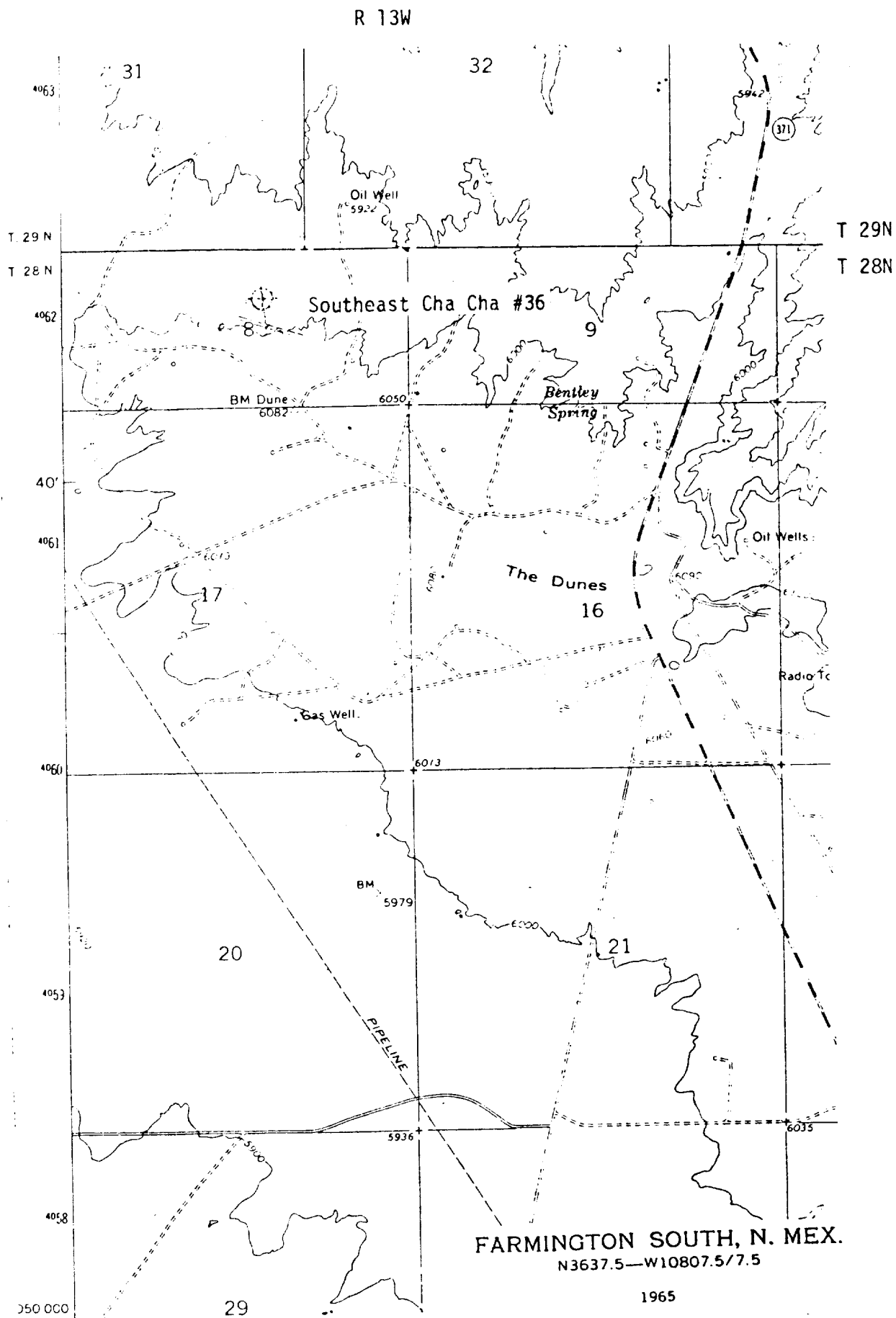
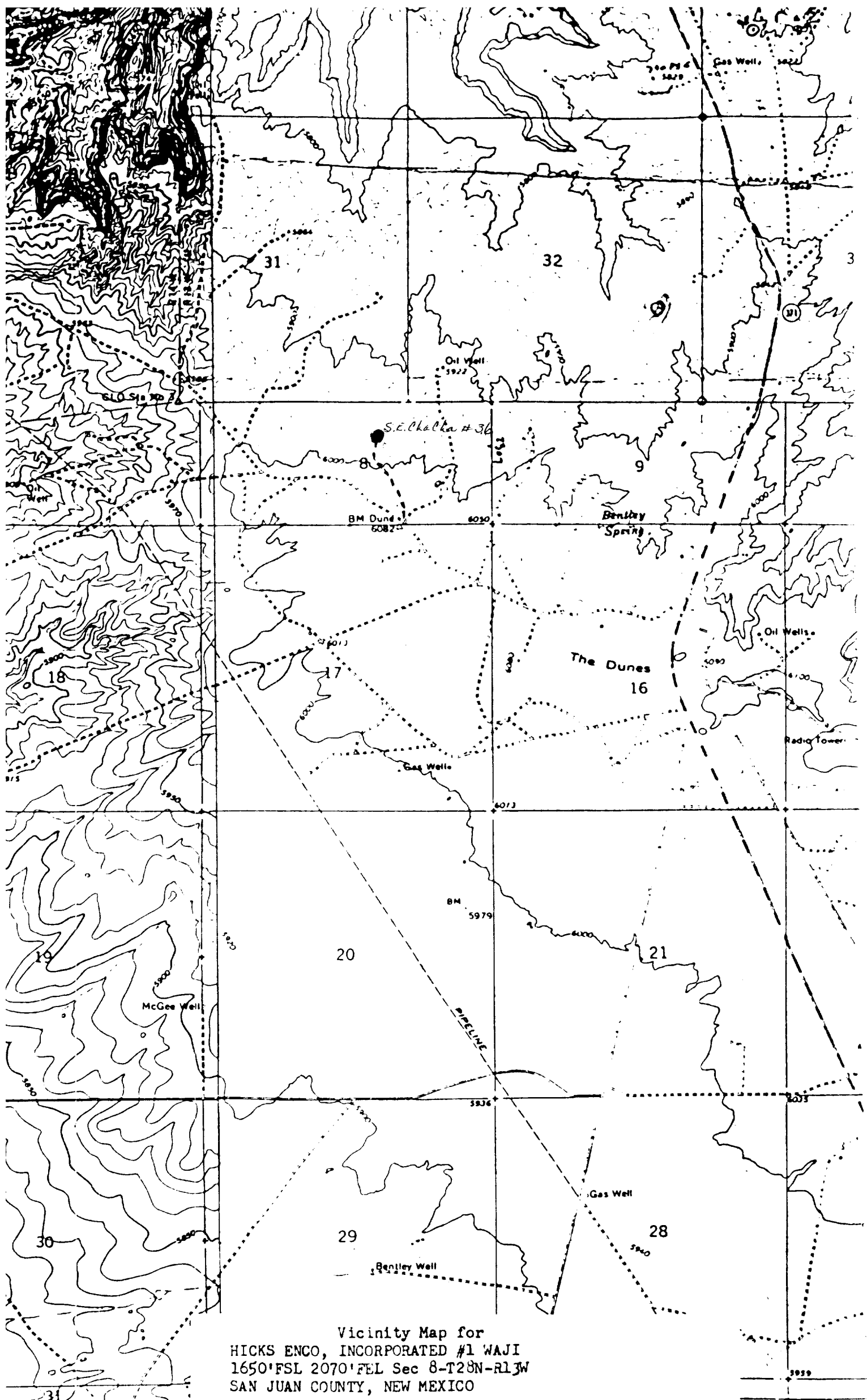


Figure 1



Vicinity Map for  
 HICKS ENCO, INCORPORATED #1 WAJI  
 1650' FSL 2070' FEL Sec 8-T28N-R13W  
 SAN JUAN COUNTY, NEW MEXICO

CAL SURVEY WASHINGTON D.C. - 1955  
 1:50,000 E  
 108° 15'      1380 000 FEET      148      149

# HICKS ENCO, INC.

2313 SANTIAGO    PHONE: (505) 325-3950  
FARMINGTON, NEW MEXICO 87401

October 29, 1979

Mr. David Maldonado, District Engineer  
United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Dear Sir:

Reference is made to our letter of October 1, 1979 in which we proposed to drill a Gallup Well. This well was referred to at "WALI#1". The well will be called Southeast Cha Cha #36 instead of WALI #1. Please make a note of this change on your records.

Sincerely,



J. D. Hicks  
PRESIDENT

JDH/11

110000

# HICKS ENCO, INC.

2313 SANTIAGO    PHONE: (505) 325-3950  
FARMINGTON, NEW MEXICO 87401

## PLAN OF OPERATION FOR DRILLING AND COMPLETION OF SOUTHEAST CHA CHA UNIT #36

1. Existing roads - See enclosed topographic map #1
2. Planned access roads - See enclosed topographic map #1. Existing and new roads will be improved and widened to 20' where necessary. Culverts will be installed where necessary.
3. Location of existing wells - See enclosed topographic map #1
4. Tanks and production facilities are as shown by small squares on the topographic map #1. All presently installed.
5. Water supplied from San Juan River approximately 8 miles north.
6. No construction material will be required.
7. A burn pit for disposal of waste will be provided. It will be covered later.
8. No ancillary facilities will be required.
9. Well site layout - See attached plat
10. When pits are in suitable condition for filling they will be filled. All disturbed surfaces will be seeded as instructed by the B.L.M.
11. Other information - See Archaeological Survey.
12. Operators Representative:  
J. D. Hicks  
2313 Santiago, Farmington, New Mexico 87401  
505-327-3788 (business) 505-325-3950 (home)
13. 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 Brinkerhoff Drilling and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

DATE

10/31/79

J. D. Hicks

, PRESIDENT