

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

2313 Santiago, Farmington, New Mexico 87401

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

At surface

550' from South line and 2100' from East line

At proposed prod. zone

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

10 miles Southwest of Farmington

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

550'

18. DISTANCE FROM PROPOSED LOCATION*

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

1370'

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

6190'

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

5850'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

April 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4"	8 5/8"	24#	250'	250 sks
7 7/8"	5 1/2"	15.5	5850'	

Drill 12 3/4" hole to 250'. Set 8 5/8" casing. Cement with 250 sks class "B" cement with 2% calcium chloride. Drill 7 7/8" hole to 5850'. 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.

ESTIMATED TOPS

Surface sand and shale	0	Lewis Shale	1890
Ojo Alamo sand	216	Mesa Verde sand and shale	2622
Kirtland sand and shale	392	Mancos shale	4485
Fruitland sand and shale	1407	Gallup sand and shale	5364
Pictured Cliffs sand and shale	1707		

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

J. D. Hicks

TITLE

PRESIDENT

DATE

1-9-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

oh Brub

NMOCC

All distances must be from the outer boundaries of the Section

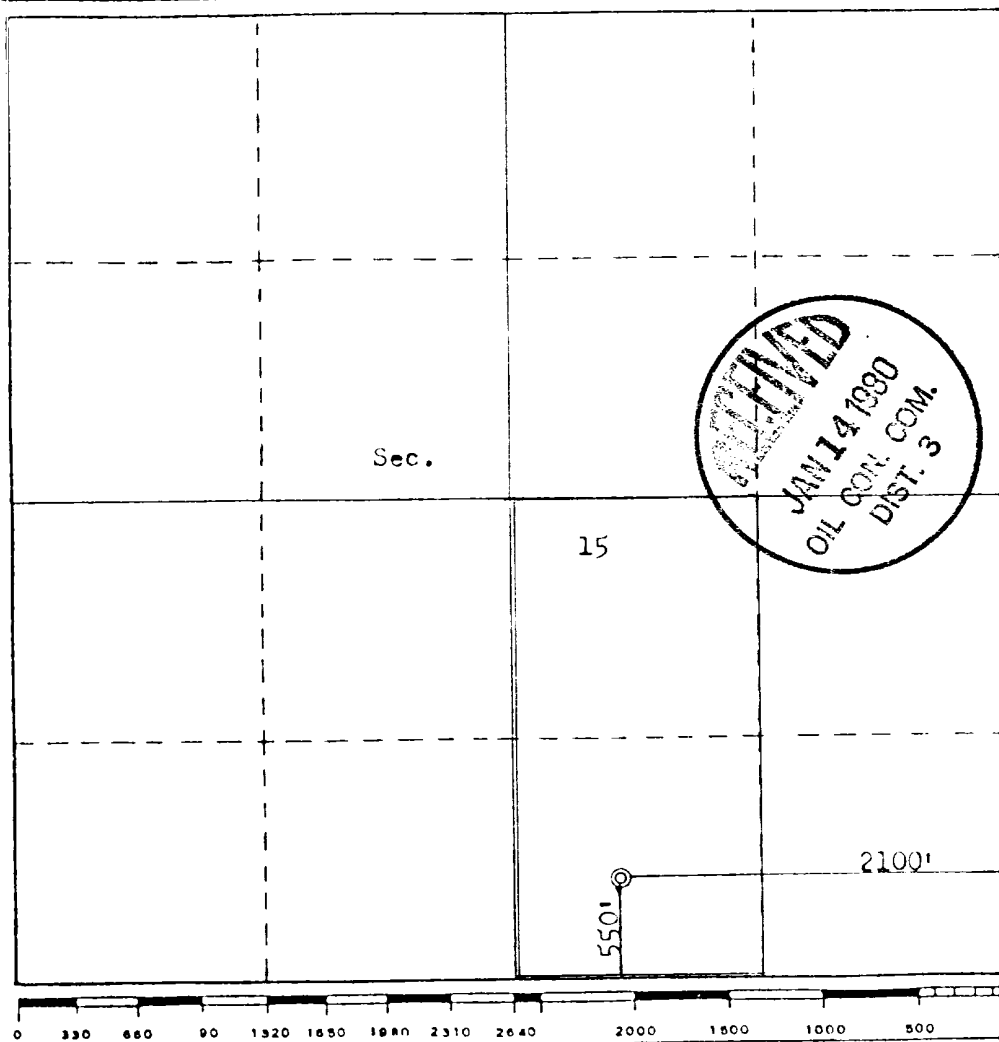
Operator HICKS ENCO, INCORPORATED			Lease SE CHA CHA Unit		Well No. 37
Tract Letter 0	Section 15	Township 28N	Range 13W	County San Juan	
Actual Footage Location of Well:					
550	feet from the South	line and	2100	feet from the East	line
Ground Level Elev. 6109	Producing Formation Gallup	Pool Cha Cha	Estimated Acreage 80 joint		

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

President

Location

Hicks Enco, Inc.

Typed by

January 9, 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.

Date Surveyed

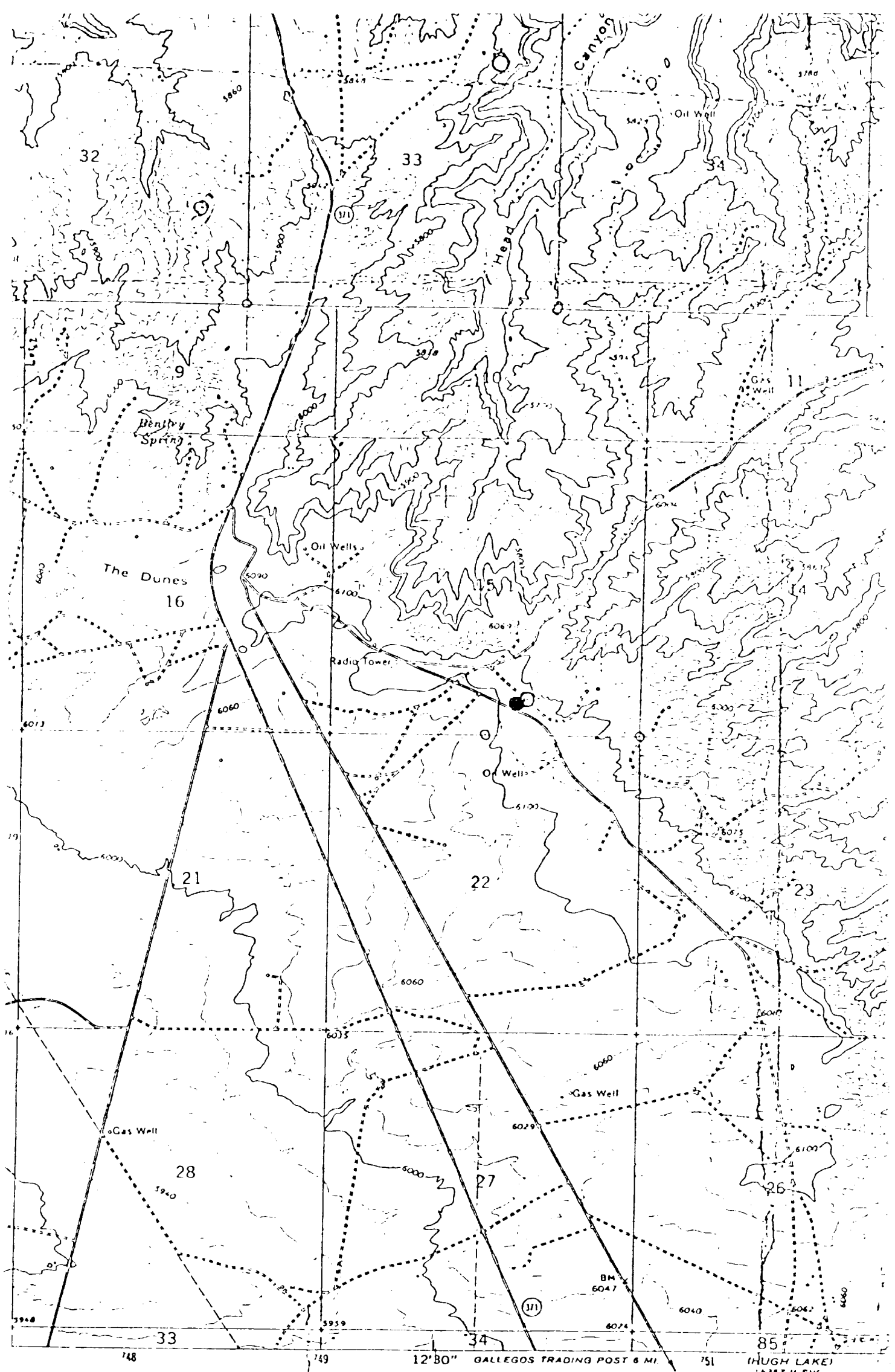
November 7, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. KEHR, 3.

3950



ological Survey
of Reclamation
aerial
ays of the
by USGS 1965
datum
ate system,
J Hicks,

Vicinity Map for
HICKS ENCO, INCORPORATED #37 SE CHA CHA
550'FSL 2100'FEL Sec. 15-T28N-R13W
SAN JUAN COUNTY, NEW MEXICO

SCALE 1:24000
1000 4000
INTERVAL 20 FEET
PRESENT 10-FOOT CON
IS MEAN SEA LEVEL

HICKS ENCO, INC.

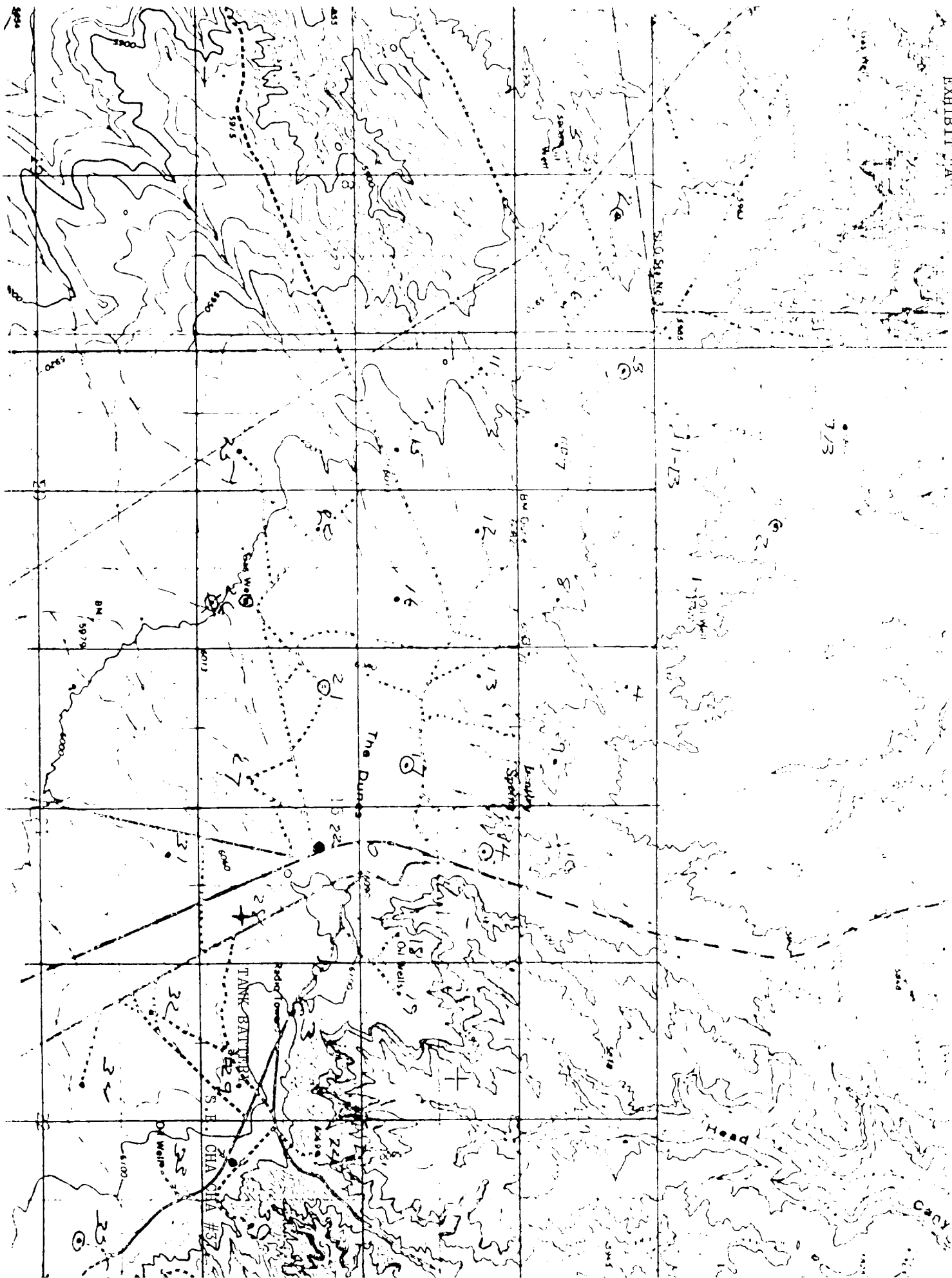
2313 SANTIAGO PHONE: (505) 325-3950
FARMINGTON, NEW MEXICO 87401

PLAN OF OPERATION FOR DRILLING AND COMPLETION OF SOUTHEAST CHA CHA UNIT #37

1. Existing roads - See enclosed topographic map (exhibit A)
2. Planned access roads - See enclosed topographic map (exhibit A). 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 (exhibit A)
4. Tanks and production facilities are as shown by small squares on the topographic map (exhibit A). 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 (exhibit B)
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

_____, PRESIDENT
J. D. Hicks



HICKS ENCO, INC.

CALCULATION SHEET

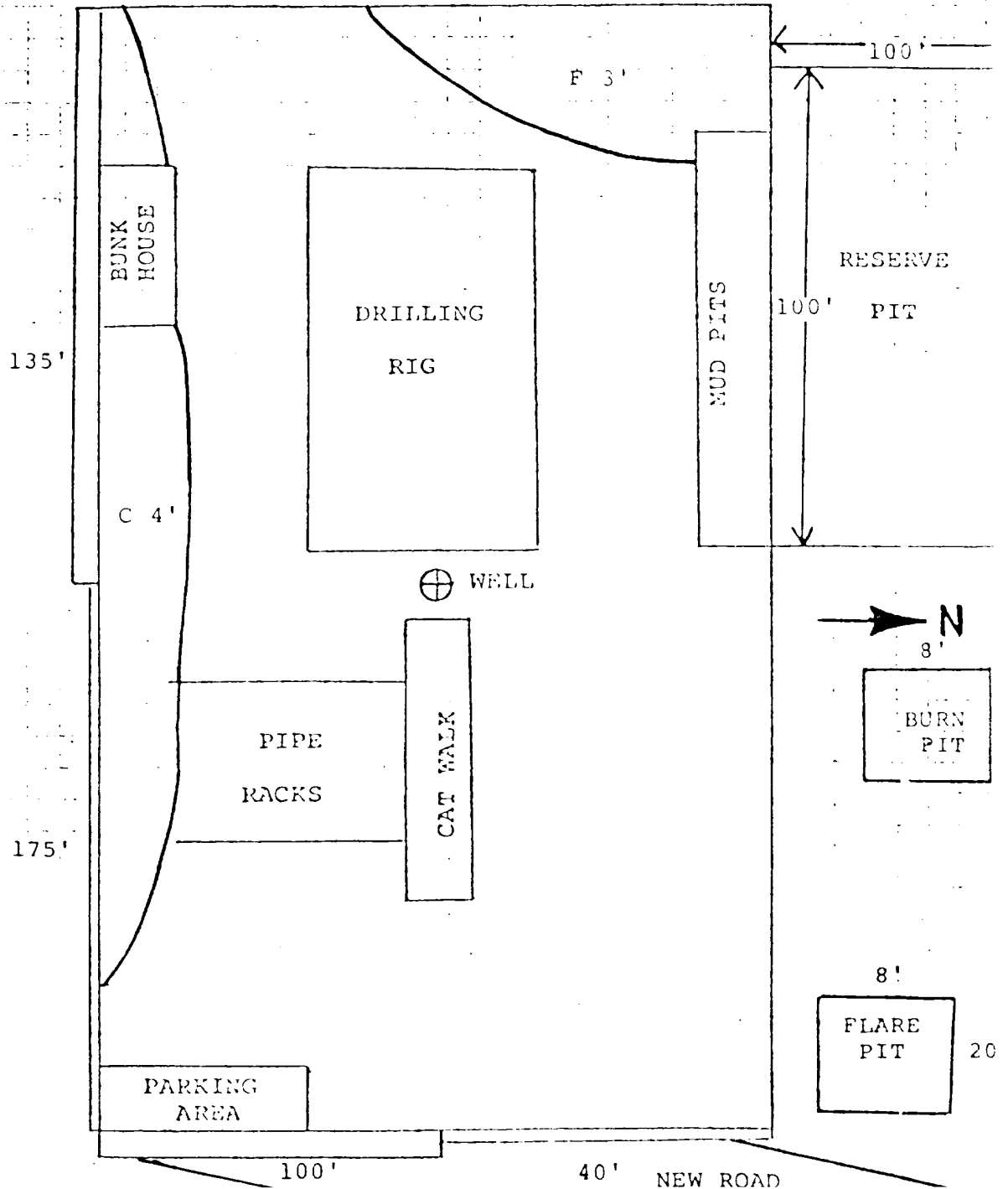
PARTY

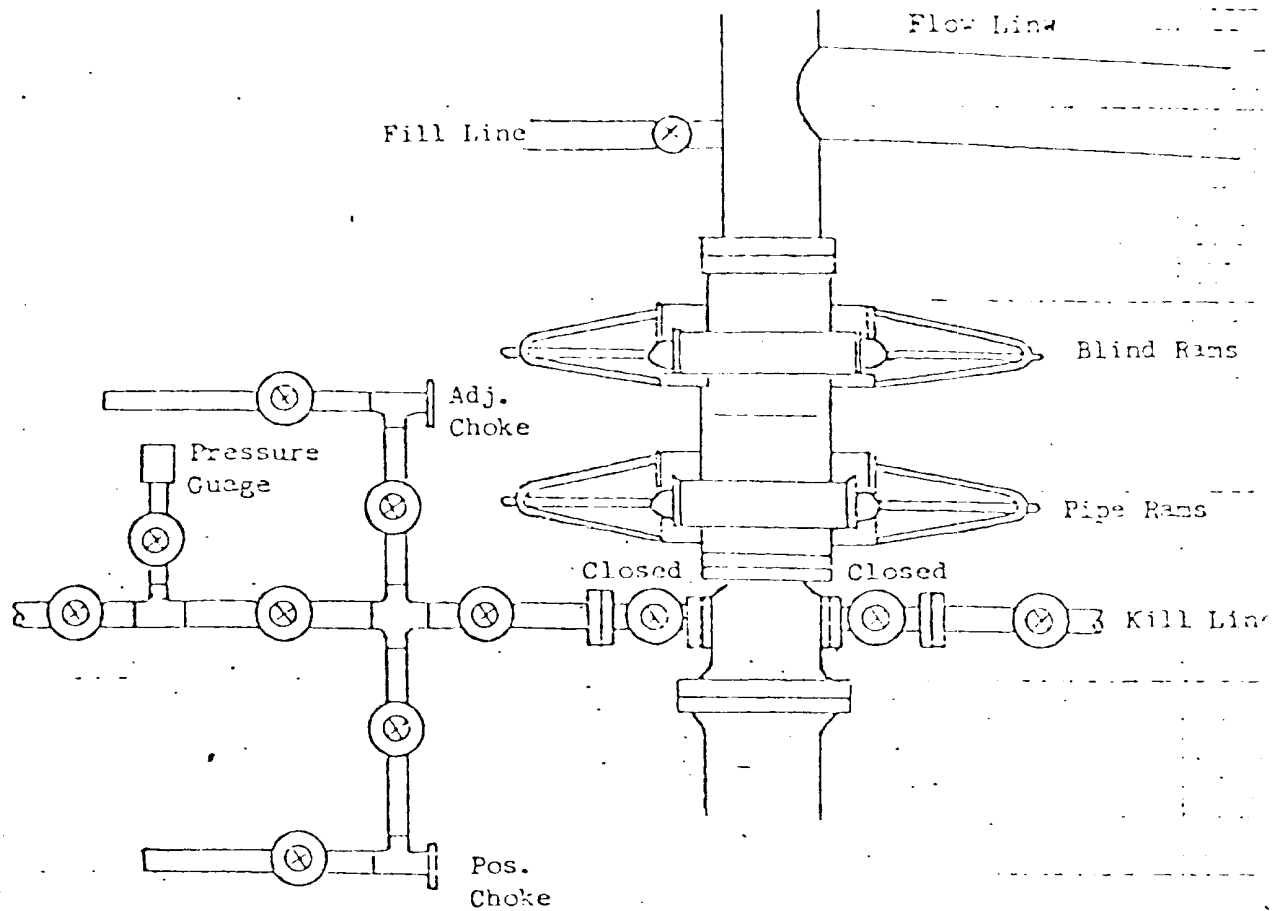
PROJECT DRILLING WELL SITE LAYOUT Southeast Cha Cha #36

SECTION Sec. 8 T28N R13W

SAN JUAN COUNTY, N. MEXICO

DATE 10-79





All valves 2"

All BOPs, 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

HOOKUP



An Archaeological Clearance Survey of
One Proposed Well Location
Conducted for Hicks Enco, Incorporated

L. Jean Hooton

Southeast Cha Cha #37

Report 79-SJC-317
of the
Cultural Resource Management Program
San Juan Campus
New Mexico State University

20 November 1979

Report 79-SJC-317
Permit 79-NM-123 and Tribal
Consent to Issuance #52

An Archaeological Clearance Survey of
One Proposed Well Location
Conducted for Hicks Enco, Incorporated

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

20 November 1979

An Archaeological Clearance Survey of
One Proposed Well Location
Conducted for Hicks Enco, Incorporated

On November 14, 1979, L. Jean Hooton from the Cultural Resource Management Program, New Mexico State University, San Juan Campus, conducted an archaeological clearance survey of a proposed well location at the request of Mr. J. D. Hicks, Hicks Enco, Incorporated.

Present during the survey were Mr. Hicks; Mr. Jim Hill, Allen Construction Company; Mr. Bob Marler, U.S. Bureau of Land Management - Farmington office; and Mr. Andy Stump and Mr. George Carlson - U.S. Geological Survey - Farmington office.

The proposed well location is on land administered by the Navajo Tribe and was surveyed under Federal Antiquities permit 79-NM-123 and Navajo Tribal Consent to Issuance #52.

METHODOLOGY

The proposed well location was surveyed by walking parallel transects, 75 feet apart, criss-cross, over a 300 x 300 foot easement.

GENERAL RECOMMENDATIONS

There were no cultural resources encountered during the course of the survey, therefore full archaeological clearance is recommended for the proposed well location.

Proposed Well: SOUTHEAST CHA CHA #37

Land Status: Navajo Tribe.

Location: The proposed well will be in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 15, Township 28 North, Range 13 West, N.M.P.M., San Juan County, New Mexico. The location is 550 feet from the south line and 2100 feet from the east line of Section 15. (see figure)

Access: Existing.

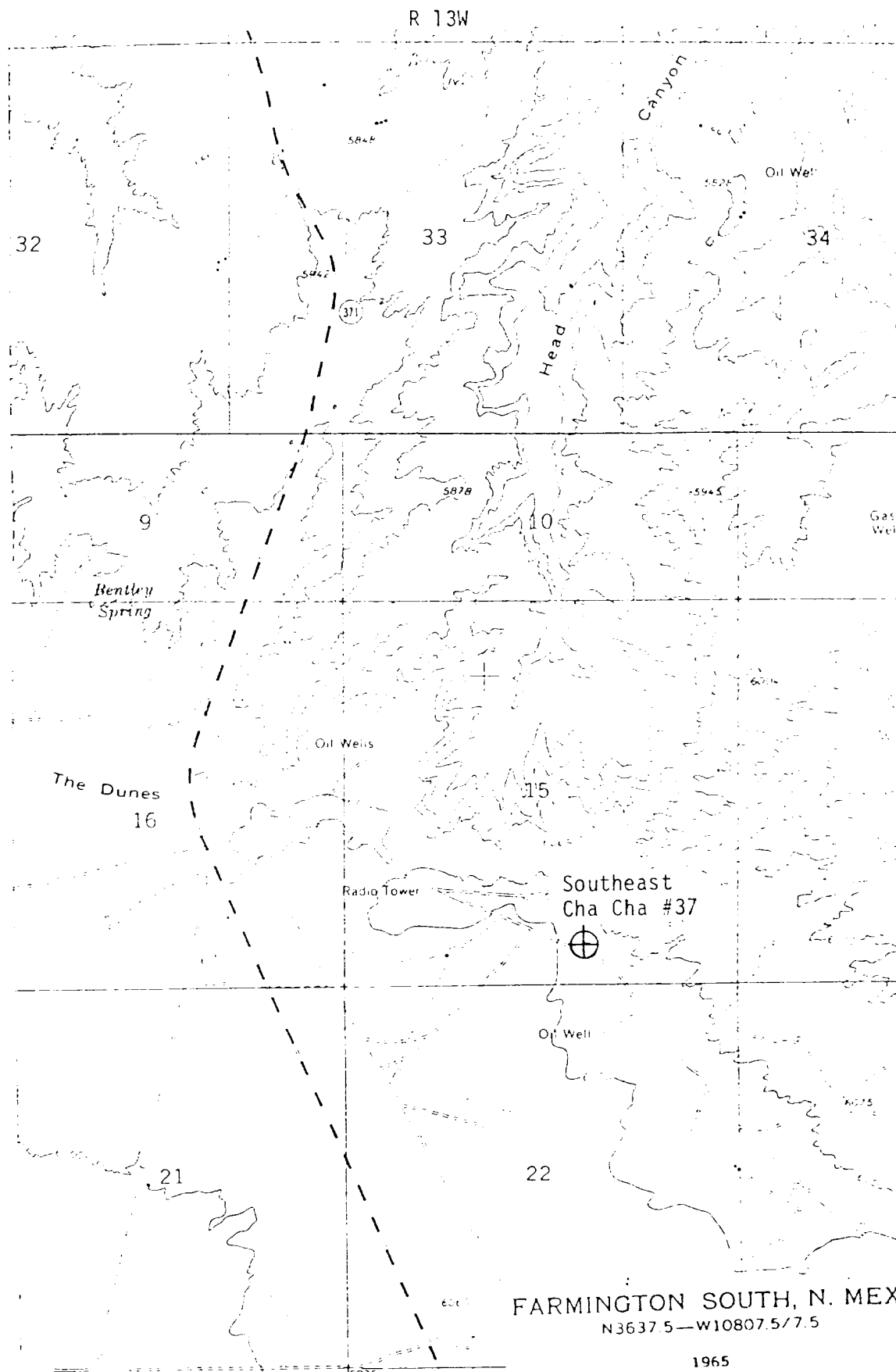
Area Surveyed: 2.066 acres.

Terrain: Rolling plateau with westerly drainage and alluvial surface deposits.

Vegetation: Snakeweed, prickly pear, brome, indian ricegrass, Russian thistle.

Cultural Resources: None found.

Recommendations: Clearance is recommended.



T 29N

T 28N

FARMINGTON SOUTH, N. MEX.
N3637.5—W10807.5/7.5

1965