

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 Injection

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Hicks Enco, Inc.

3. ADDRESS OF OPERATOR

Farmington, New Mexico 87401

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

At surface

1200' from east line and 1410' from north line
At proposed prod. zone

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

10 miles north and 4 miles east of Shiprock, New Mexico

15. DISTANCE FROM PROPOSED*

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

3960'

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

920

16. NO. OF ACRES IN LEASE

2560

19. PROPOSED DEPTH

1020'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

46

20. ROTARY OR CABLE TOOL

Rotary

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

Ground 5221

22. APPROX. DATE WORK WILL START*

11-1-79

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7"	23#	60'	15 SKS
6 1/4"	4 1/2"	10.5#	1020'	185 SKS

Drill to top of Gallup with air. Mud Up. Drill Gallup to approximately 1020'.
Run logs. Run and cement casing to T. D. Perforate producing zone. Treat if required.
Temporarily place on production. At end of testing period run tubing with
water flood packer and put on injection. If well is dry will plug and abandon
as per USGS instructions. Blow out preventor will be installed and checked daily.

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. HicksTITLE PRESIDENTDATE 10-1-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

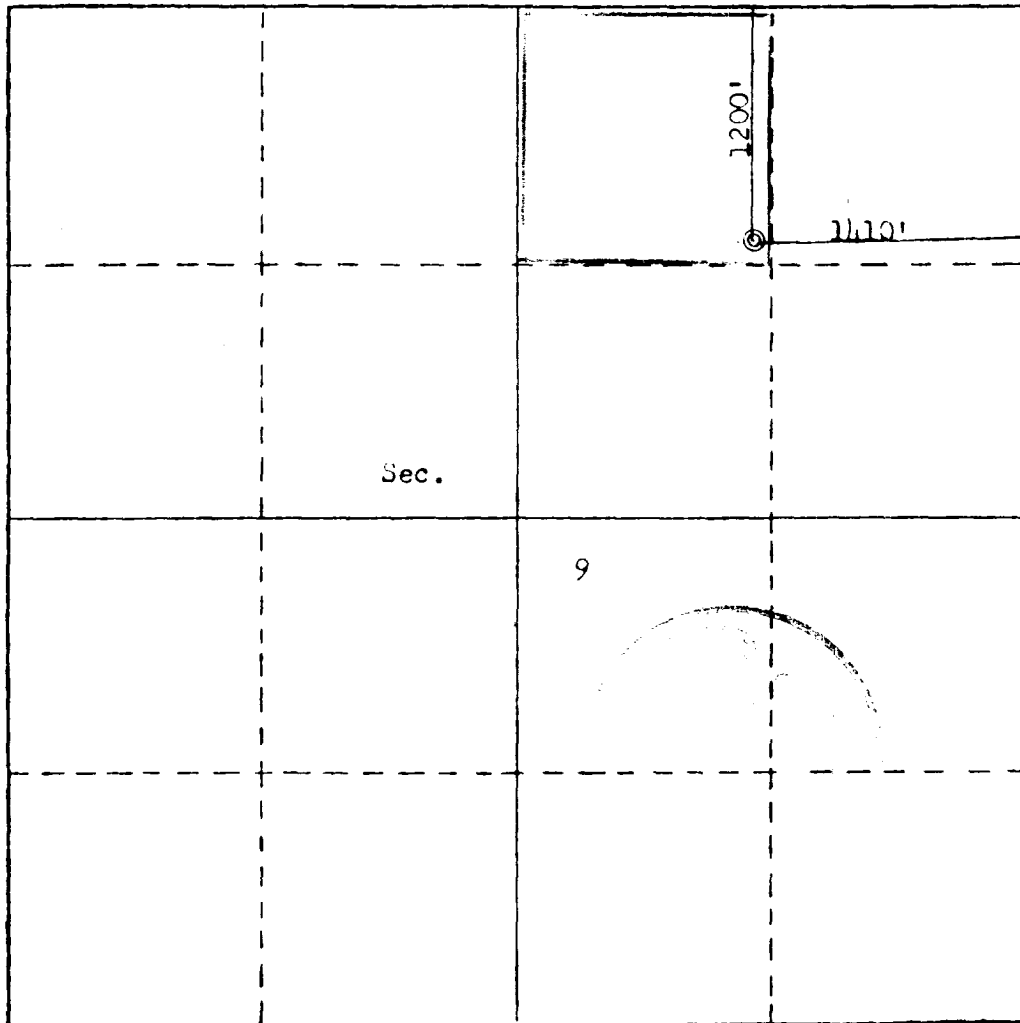
Operator HICKS ENCO INCORPORATED			Lease Tribe of Indians NAVAJO "F"		Well No. 148
Unit Letter B	Section 9	Township 31N	Range 17W	County San Juan	
Actual Footage Location of Well: 1200 feet from the North line and 1410 feet from the East line					
Ground Level Elev. 5221	Producing Formation Gallup		Pool Horseshoe		Dedicated Acreage: 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 _____

Position _____

Company _____

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 _____

 Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. _____

3950

November 20, 1974

MEMORANDUM

TO : Bruce Anderson, Division of Archaeology, National Park Service,
P.O. Box 728, Santa Fe, New Mexico 87501

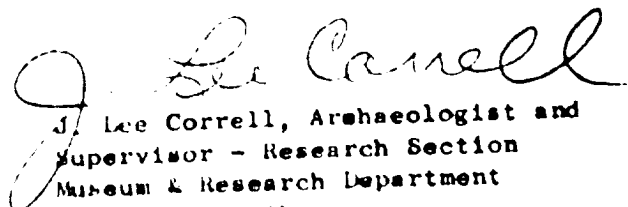
FROM : J. Lee Correll, Archaeologist and Supervisor of Research Section,
Museum and Research Dept., The Navajo Tribe

SUBJECT: Archaeological Clearance - Associated Royalties Lease, 10 Miles
North of Shiprock, New Mexico. Handled by Engineering & Production
Service, Farmington, New Mexico

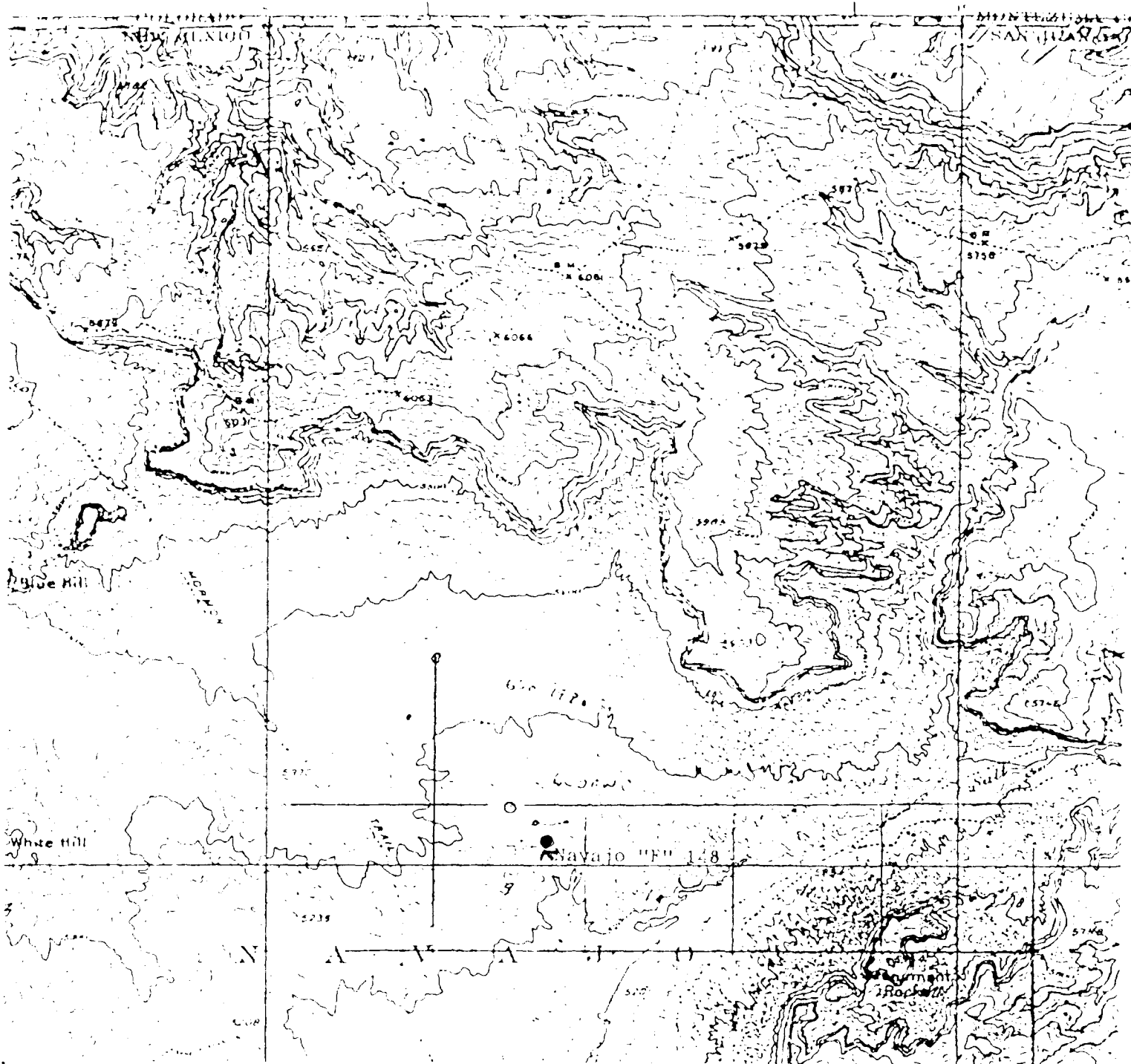
Pursuant to the request of Mr. J. D. Hicks of the Engineering & Production Service Company of Farmington, New Mexico, accompanied by him, I examined the area held under lease by Associated Royalties. The region is something of a big sink, relatively flat with gravel mounds about the periphery. The area is criss-crossed by existing access roads, and there are a number of operating oil wells. Those areas examined, all in Township 21 N, Range 17 W, were:

Section	3 - N } only
"	4 - All of Section
"	5 - E } only
"	9 - All except the NW }
"	10 - All of Section
"	11 - W } only

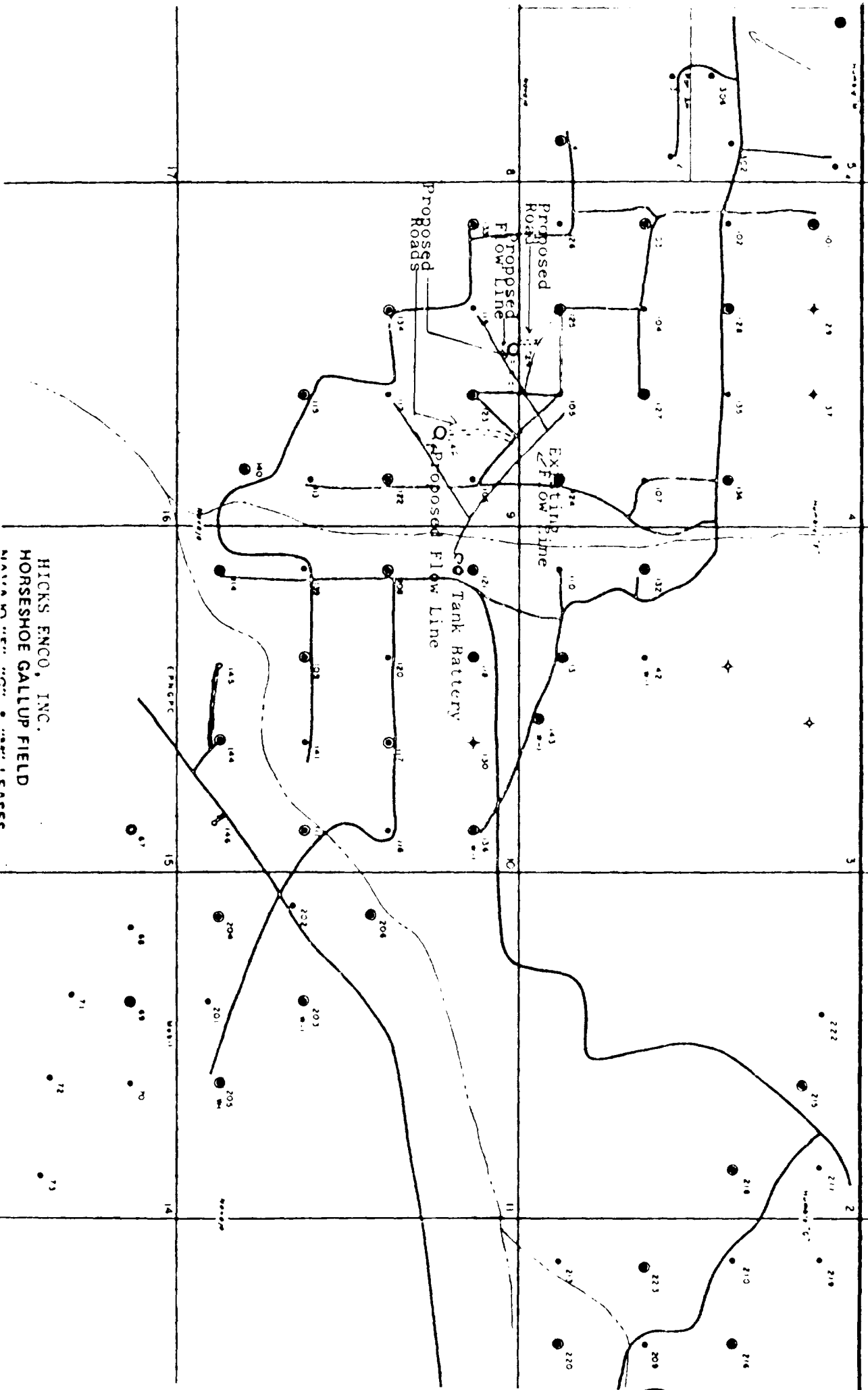
Other than one Navajo family who maintains a dwelling within the area, no evidence of either prehistoric or historic occupancy was noted, and archaeological clearance is hereby recommended.


J. Lee Correll, Archaeologist and
Supervisor - Research Section
Museum & Research Department
The Navajo Tribe

CC: ✓ J. D. Hicks
Martin A. Link
File
Chrono



4 miles West
to Highway 666
10 miles North
of Shiprock,
New Mexico

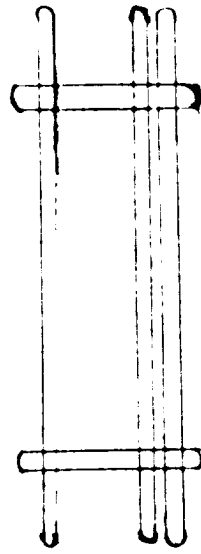


HICKS ENCO, INC.
HORSESHOE GALLUP FIELD

NATURAL GAS CO. & SERVICE

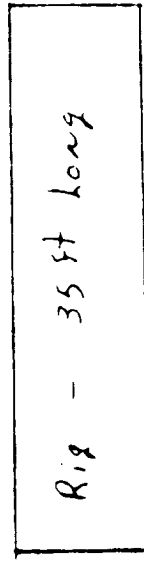
o readman

o readman



Pipe Rack 30 ft long

o



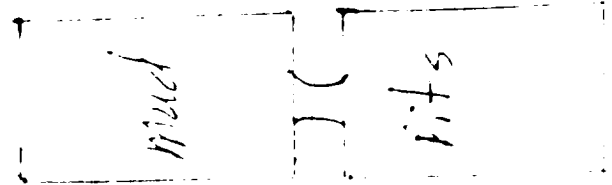
Rig - 35 ft long

o readman

o readman

o readman

Reserve pit



mud pump
+
air compressor