

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-21275

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. <b>I-25-DND-38</b>	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>	
2. NAME OF OPERATOR <b>AMOCO PRODUCTION COMPANY</b>			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>501 Airport Drive, Farmington, New Mexico 87401</b>			8. FARM OR LEASE NAME <b>USC Section 18</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface <b>2400' FWL &amp; 540' FWL</b> At proposed prod. zone <b>Same</b>			9. WELL NO. <b>33</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>9 miles southeast of Shiprock</b>			10. FIELD AND POOL, OR WILDCAT <b>Hugback Dakota</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>775'</b>		16. NO. OF ACRES IN LEASE <b>4160</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>SE/4 SW/4 Section 18, T-25-N, R-16-W</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>375'</b>		19. PROPOSED DEPTH <b>670'</b>	12. COUNTY OR PARISH <b>San Juan</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5018' GL est.</b>		17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40 joint</b>		13. STATE <b>New Mexico</b>
22. APPROX. DATE WORK WILL START* <b>May, 1973</b>				

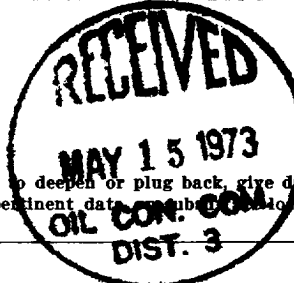
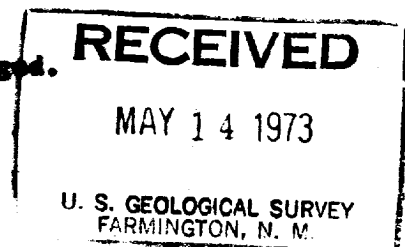
## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	7"	20#	80'	75 sz
6-1/8"	5-1/2"	14#	670'	100 sz

Amoco proposes to drill this well with rotary tools and run 5-1/2" casing to top of the Dakota, drill Dakota pay sand and complete in open hole.

Copies of Location Plat attached.  
Copies of logs will be furnished upon completion, if logged.  
Copies of Development Plan attached.

This well in accordance with AMOCC Order No. A-1296.



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, including locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Original Signed by  
**J. ARNOLD SNELL**  
SIGNED \_\_\_\_\_ TITLE **Area Engineer** DATE **May 11, 1973**

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

WELL

PLAT

DATE

All distances must be from the outer boundary of the section.

Lease		USG Section 18		Well No.
Section		Township	Range	County
18	29N	16W	San Juan	
Location of Well:				
feet from the South line and		2400	feet from the West line	
Producing Formation	Pool	Dedicated Acreage		
Dakota	Hogback Dakota	40		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, force-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

J. Arnold Snell

Position

Area Engineer

Company

AMOCO PRODUCTION COMPANY

Date

May 11, 1973

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 8, 1973

Registered Professional Engineer  
and/or Land Surveyor

Fred B. Kutz

Certificate No.

3950

Sec

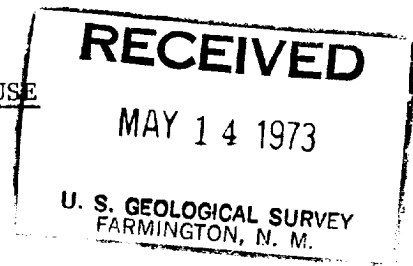
18

33

5101

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000

DEVELOPMENT PLAN FOR SURFACE USE  
USG SECTION 18 NO. 33



Amoco Production Company proposes to drill the subject well with rotary tools on a graded location as shown on the attachments. The location is in accordance with NMOCC Order R-3296. Well established roads exist in the area and only about 400 feet of new road will be constructed. Archeological sites exist in this region and Archeological clearance will be obtained from the proper authority. Clearance for work will also be obtained from Navajo Tribal authorities.

No airstrips or field camps exist nearby. The vegetation in the area is extremely sparse. Water for drilling operations will be supplied by hauling from the San Juan River about three miles away. If this water is unuseable, water will be hauled from a different source. Upon completion of the well the location will be cleaned up and the reserve pit backfilled.

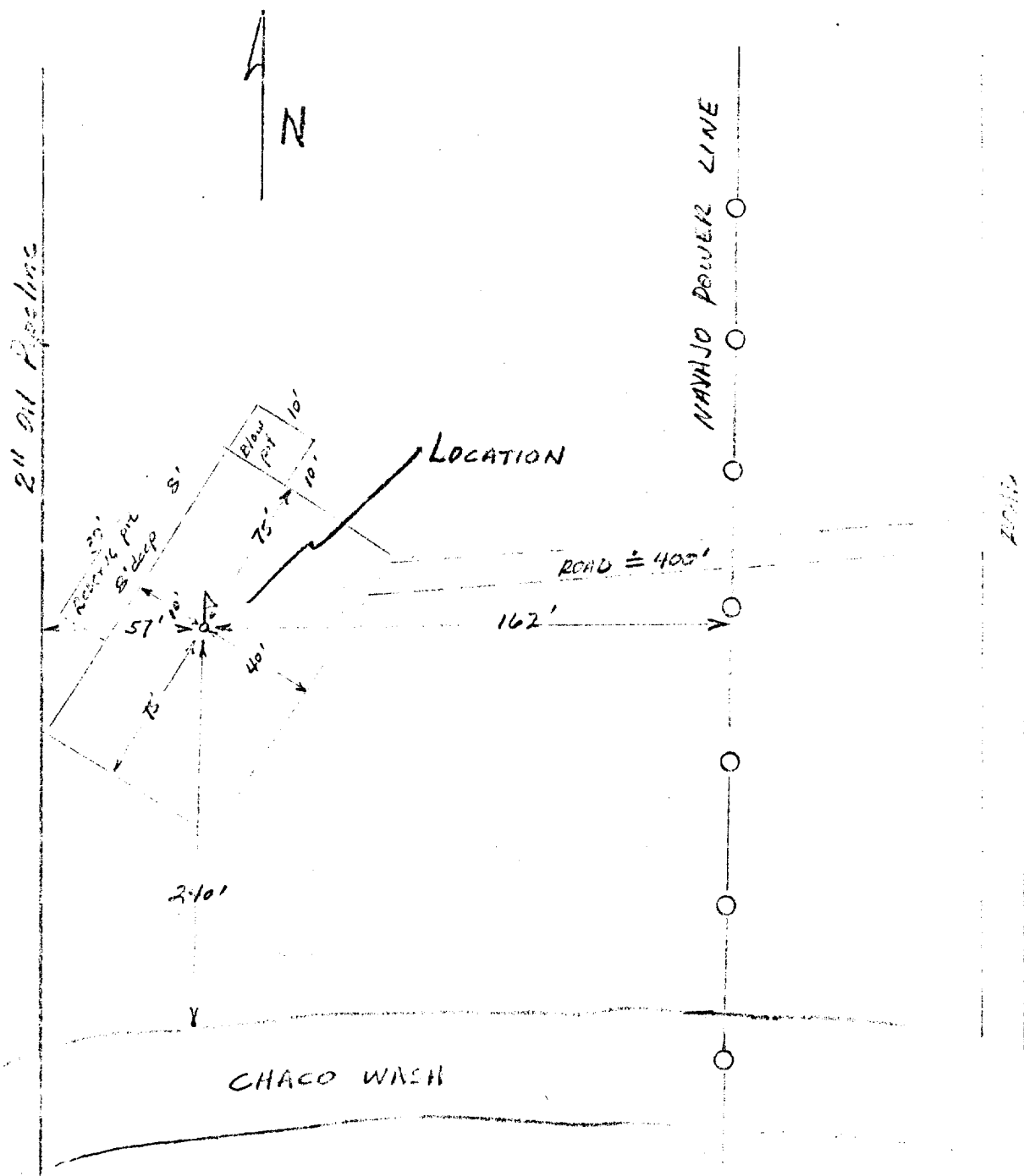
# DEVELOPMENT PLAN

USG SECTION 18 Well No. 33

HOOBACK DAKOTA FIELD

2400' FWL X 540' FCL, SECTION 18,

T29N, R16W, SAN JUAN CO, New Mexico

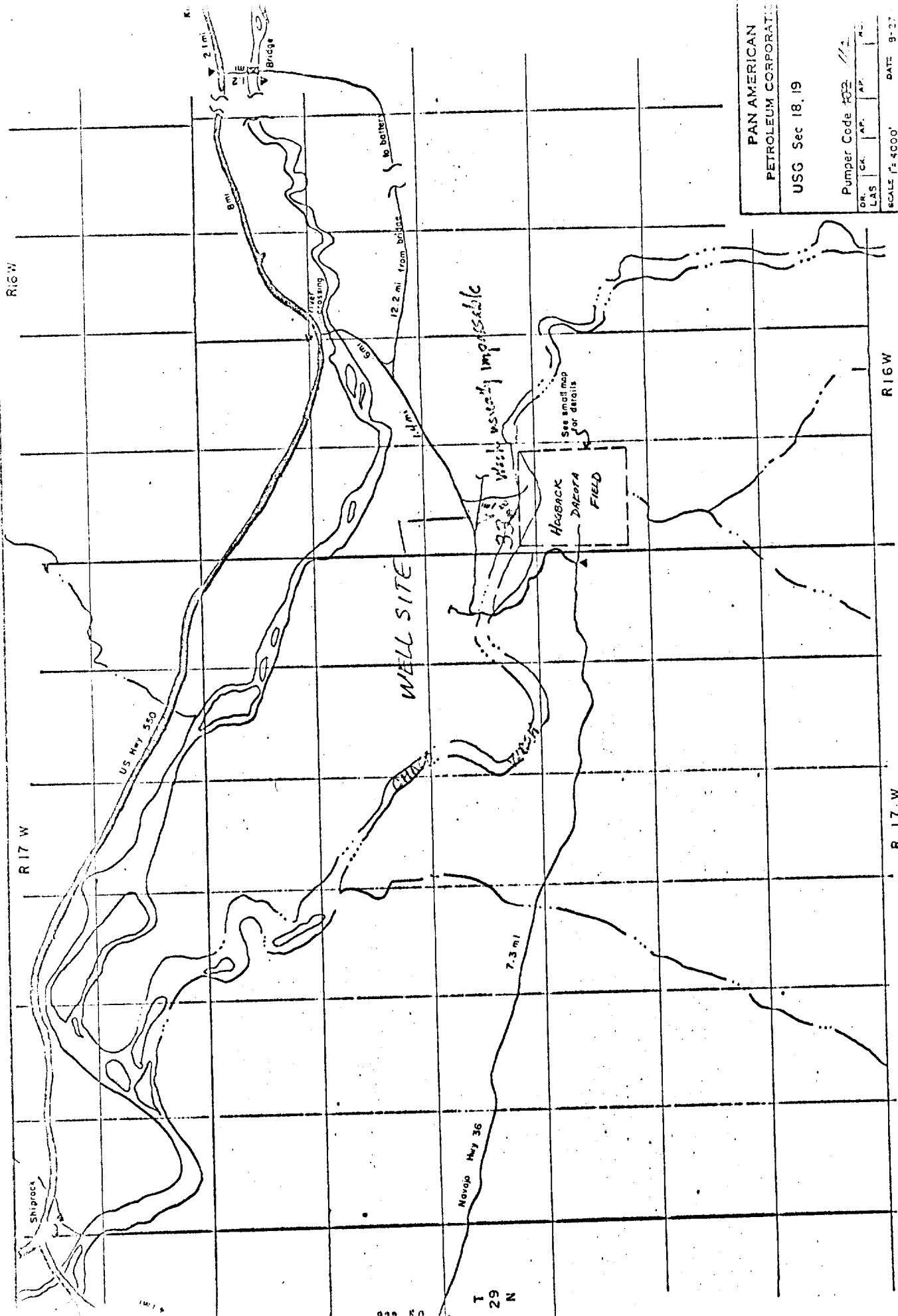


Amoco Production Company

SCALE: 1" = 100'

DRILLING LOCATION SPECIFICATION

DRG. NO.



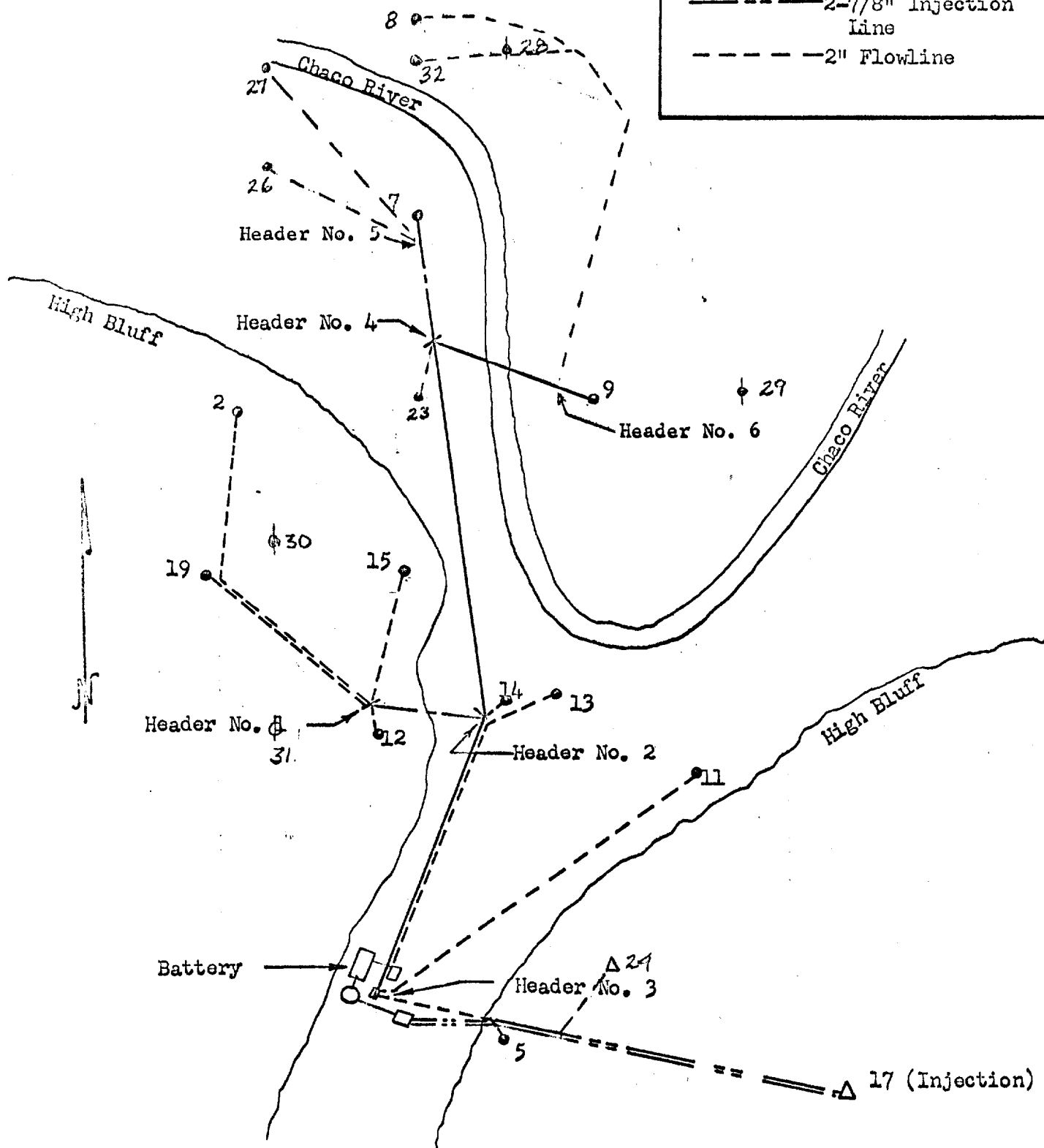
PAN AMERICAN	
PETROLEUM CORPORATION	
USG Sec 18.19	
Pumper Code	112
DR. CK. AP. AC.	
LAS	
SCALE 1" = 4000'	DATE 9-27

GENERAL LOCATION MAP



PROPOSED WELL  
33

- 4" Production Line  
& 2" Flowline
- 3" Production Line  
& 2" Flowline
- 2-7/8" Injection  
Line
- 2" Flowline



PAN AMERICAN PETROLEUM CORPORATION

HOGBACK DAKOTA FIELD FLOWLINE SYSTEM

SCALE: None

DRG. 1  
NO.