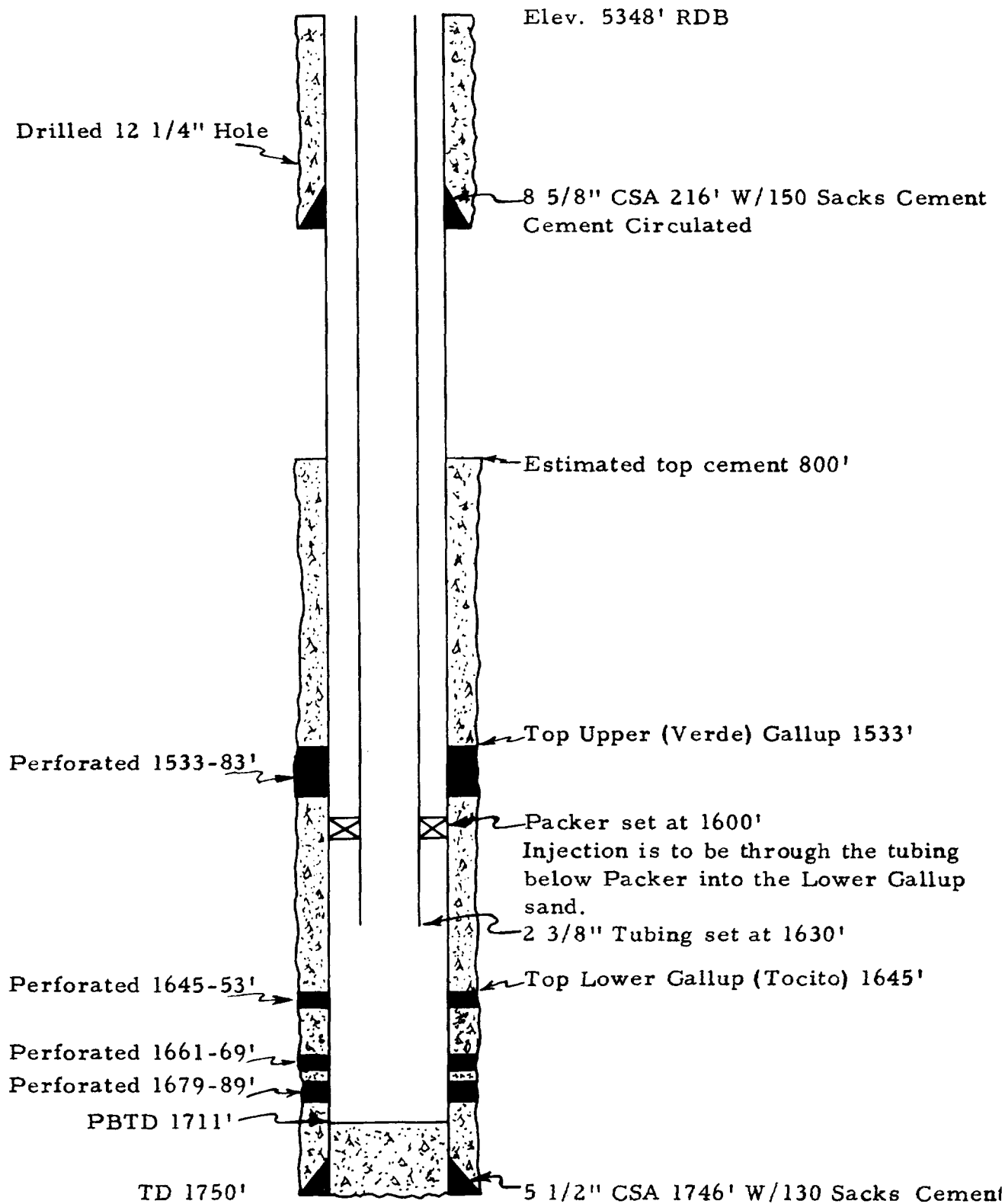


EXHIBIT "B"  
 SCHEMATIC DIAGRAM OF  
 PAN AMERICAN PETROLEUM CORPORATION  
 NORTHEAST HOGBACK UNIT WELL NO. 36  
 360' FSL & 1730' FEL  
 SEC. 10, T30N, R16W



## INTENTIONAL OMISSIONS

**The following document(s) have been intentionally omitted from this file due to the indicated reasons.**

FILE # DMX

### DESCRIPTION OF OMITTED DOCUMENTS

OMITTED DOCUMENT

REASON OMITTED

- ① Plat - Exhibit A - symbols Too large
- ② Electrical Log - Exhibit C Too large

## EXHIBIT "C"

## S. LEMBERGER WELL SURVEYING CORPORATION



# Electrical Reg.

COMPANY PAN AMERICAN

PETROLEUM CORP.

## Other Surveys

NONI

WELL NORTHEAST HOGBACK UNIT WELL #36

Location of Well

360' FR S/L  
1730' FR E/L  
SEC. 10-30N-16W

FIELD HORSESHOE GALLUP

LOCATION SEC. 10-30N-16W

NEHB  
#31

Elevation: D.F.: 5347  
K.B.: 5348  
or G.L.: 535

COUNTY SAN JUAN

STATE NEW MEXICO

FILING No.

Well No.	001						
Date	7-1-89						
Test Logging	1725						
Core Logging	216						
Core / Measured	1512						
Sg. Schlum.	216						
Sg. Driller	216						
Depth Reached	1729						
Bottom Driller	1729						
Depth Datum	K0						
Mud Nct.	CHEM GEL (OIL ADDED)						
Dens. Visc.	8.2 42						
Mud Resist.	2.5 @ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F
" Res. BHT	2.5 @ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F
Rmf	2.1 @ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F
Rmc	2.3 @ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F
" pH	-- @ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F	@ 96°F
" Wt. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Flow Rate	7.7/8" - 1.5 gpm						
Time AM	10:00						
Time PM	1:00						
Time	1:00						
Recorded By	W.C.						
Witness	H. HOLLINGSWORTH						

(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

06686

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Northeast Hogback Unit

8. FARM OR LEASE NAME

9. WELL NO.

36

10. FIELD AND POOL, OR WILDCAT

Horseshoe Gallup

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

SW/4 SE/4 Section 10

T-30-N, R-16-W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

1.

OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

P. O. Box 480, Farmington, New Mexico

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

See also space 17 below.)

At surface

360' FSL & 1730' FSL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, WT, GR, etc.)

5345' DF

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Convert to water injection

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

In an effort to improve pressure maintenance performance in the Northeast Hogback Unit, we propose to convert Well No. 36 to an injection well, using a packer for injection of water into the Lower Gallup perforations 1645-53', 1661-69', and 1679-89'. Approval to utilize this well for a water injection well under Order R-2026 is being requested from the New Mexico Oil Conservation Commission.

RECEIVED

APR 14 1966

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N.M.

RECEIVED

APR 13 1966

FARMINGTON AREA

18. I hereby certify that the foregoing is true and correct

SIGNED BY F. H. HOLLINGSWORTH

G. W. Eaton, Jr.

(This space for Federal or State office use)

TITLE Area Engineer

DATE April 13, 1966

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

APR 14 1966

RICHARD B. KRAHL

DISTRICT ENGINEER

\*See Instructions on Reverse Side



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

May 12, 1966

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, NEW MEXICO 87501

MAIN OFFICE 000  
66 MAY 13 PM 1 16

Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Commission  
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Pan American Petroleum Corporation which seeks approval for the expansion of the North-east Hogback Unit Pressure Maintenance Project by the conversion of their Unit Well No. 36 to water injection. The well location is 360' from the south line and 1730' from the east line of Sec. 10, T. 30 N., R. 16 W., San Juan County.

Since the well construction, the injection equipment and procedure conform to the original plan authorized for this pressure maintenance project, this office offers no objection to the granting of this application.

FEI/ma

Yours truly,

S. E. Reynolds  
State Engineer

By: *Frank E. Irby*  
Frank E. Irby  
Chief  
Water Rights Div.