

■

|                           |     |  |
|---------------------------|-----|--|
| NUMBER OF COPIES RECEIVED |     |  |
| DISTRIBUTION              |     |  |
| SANTA FE                  |     |  |
| FILE                      |     |  |
| U.S.G.S.                  |     |  |
| LAND OFFICE               |     |  |
| TRANSPORTER               | OIL |  |
|                           | GAS |  |
| PRORATOR OFFICE           |     |  |
| OPERATOR                  |     |  |

[illegible]

AREA 640 ACRES  
LOCATE WELL CORRECTLY

Sullivan Gas Unit "C"

(Company or Operator)

(Lease)

## Basin Dakota

Pool. **San Juan**

...Country.

of Section 28 If State Land the Oil and Gas Lease No. is.....

Name of Drilling Contractor. Man Drilling Company

Elevation above sea level at Top of Tubing Head.....5547 (RDB)..... The information given is to be kept confidential until  
Not Confidential 19

|                         |                      |                   |          |
|-------------------------|----------------------|-------------------|----------|
| No. 1, from <u>6334</u> | to <u>6385 (GAS)</u> | No. 4, from ..... | to ..... |
| No. 2, from <u>6258</u> | to <u>6294 (GAS)</u> | No. 5, from ..... | to ..... |
| No. 3, from <u>6200</u> | to <u>6210 (GAS)</u> | No. 6, from ..... | to ..... |

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet.

No. 2, from ..... to ..... feet.

No. 3. from ..... to ..... feet.

No. 4. from ..... to ..... feet.

| SIZE   | WEIGHT PER FOOT | NEW OR USED | AMOUNT | KIND OF SHOE | CUT AND PULLED FROM | PERFORATIONS | PURPOSE   |
|--------|-----------------|-------------|--------|--------------|---------------------|--------------|-----------|
| 8 5/8" | 24#             | New         | 803    | Guide        |                     |              | Surface   |
| 4 1/2" | 10.5#           | New         | 6443   | Guide        |                     |              | Oilstring |
|        |                 |             |        |              |                     |              |           |
|        |                 |             |        |              |                     |              |           |

| SIZE OF HOLE | SIZE OF CASING | WHERE SET | NO. SACKS OF CEMENT | METHOD USED         | MUD GRAVITY | AMOUNT OF MUD USED |
|--------------|----------------|-----------|---------------------|---------------------|-------------|--------------------|
| 12 1/4"      | 8 5/8"         | 812       | 750                 | Halliburton 1 Plug  |             |                    |
| 7 7/8"       | 4 1/2"         | 6412      | 1600                | Halliburton 2 Stage |             |                    |
|              |                |           |                     |                     |             |                    |
|              |                |           |                     |                     |             |                    |

## (Record the Process used, No. of Ots. or Gals. used, interval treated or shot.)

Perforated 6349-59 with 4 shots per foot. Fracked these perforations with 27,636 gallons water containing 1% calcium chloride and 2 1/2 pounds J-100 per 1000 gallons and 25,000 pounds sand. Breakdown pressure 2800, average treating 3500. Average injection rate 33 BPM. Set bridge plug at 6340. Tested with 3500 psi. Test ok. Perforated 6261-80 with 2 shots per foot. Fracked these perforations with 28,308 gallons water treated as above and containing 25,000 pounds sand. Breakdown pressure 2200, average treating 3500. Average injection rate 37 BPM. Set bridge plug at 6250. Tested with 3500 psi OK. Perforated 6200-10 with 4 SFF had communication indicated and did not fracture.

### Preparation of the Test Solution

Drilled out Bridge Plug and landed 2 3/8" tubing 6200.

Well Completed as Basin Dakota Field Well Marsh 23, 1964.

Depth Cleaned Out.....6376

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 6412 feet, and from feet to feet.  
Cable tools were used from feet to feet, and from feet to feet.  
Well Shut In March 23, 1964  
Put to Producing

PRODUCTION

OIL WELL: The production during the first 24 hours was barrels of liquid of which % was  
% was oil; % was emulsion; % water; and % was sediment. A.P.I.  
Gravity: \_\_\_\_\_  
GAS WELL: The production during the first 24 hours was 2750 M.C.F. plus barrels of  
Liquid Hydrocarbon. Shut in Pressure 2000 lbs. (TFC)  
Length of Time Shut in 43 1/2 Hours

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico

Northwestern New Mexico

|               |                |                       |
|---------------|----------------|-----------------------|
| T. Anhy.      | T. Devonian    | T. Ojo Alamo          |
| T. Salt       | T. Silurian    | T. Kirtland-Fruitland |
| T. Salt       | T. Montoya     | T. Farmington         |
| T. Yates      | T. Simpson     | T. Pictured Cliffs    |
| T. 7 Rivers   | T. McKee       | T. Menefee            |
| T. Queen      | T. Ellenburger | T. Point Lookout      |
| T. Grayburg   | T. Gr. Wash.   | T. Mancos             |
| T. San Andres | T. Granite     | T. Dakota             |
| T. Glorieta   |                | T. Morrison           |
| T. Drinkard   |                | T. Penn.              |
| T. Tubbs      |                |                       |
| T. Abo        |                |                       |
| T. Penn.      |                |                       |
| T. Miss.      |                |                       |

FORMATION RECORD

| From | To   | Thickness<br>in Feet | Formation       | From | To | Thickness<br>in Feet | Formation |
|------|------|----------------------|-----------------|------|----|----------------------|-----------|
| 0    | 1800 | 1800                 | Sand X Shale    |      |    |                      |           |
| 1800 | 1850 | 50                   | Pictured Cliffs |      |    |                      |           |
| 1850 | 3450 | 1600                 | Lewis Shale     |      |    |                      |           |
| 3450 | 4300 | 850                  | Mesaverde       |      |    |                      |           |
| 4300 | 5320 | 1020                 | Mancos          |      |    |                      |           |
| 5320 | 5650 | 330                  | Gallup          |      |    |                      |           |
| 5650 | 6090 | 440                  | Bone Gallup     |      |    |                      |           |
| 6090 | 6150 | 60                   | Greenhorn       |      |    |                      |           |
| 6150 | 6200 | 50                   | Granger Shale   |      |    |                      |           |
| 6200 | 6258 | 58                   | Granger Dakota  |      |    |                      |           |
| 6258 | 6334 | 76                   | Main Dakota     |      |    |                      |           |
| 6334 | 6412 | 78                   | Lower Dakota    |      |    |                      |           |

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Name: Fred L. Nabors, District Engineer  
Company or Operator: Pan American Petroleum Corporation  
Address: P. O. Box 480, Farmington, New Mexico  
Position or Title: \_\_\_\_\_  
(Date) March 30, 1964