

## Santa Fe, New Mexico

## WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

**AREA 840 ACRES  
LOCATE WELL CORRECTLY**

**Pan American Petroleum Corporation**  
(Company or Operator)

## Blackrock Gas Unit

Well No. 1 in SW ¼ of SW ¼, of Sec. 15, T. 30N R. 12W NMPM.

**Basin State** Pool, **San Juan** County.

Well is 1070 feet from South line and 810 feet from West line  
of Section 15 If State Land the Oil and Gas Lease No. is (Fee Lease)

Drilling Commenced October 25 1960 Drilling was Completed November 12 1960

Name of Drilling Contractor: **Spurmon and Murray Drilling Company**

Address..... **Box 672, Coleman, Texas**

Elevation above sea level at Top of Tubing Head..... **2442 (100)**..... The information given is to be kept confidential until  
**Not confidential**..... 19.....

### OIL SANDS OR ZONES

No. 1, from 6496 to 6497 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 6497 to 6498 No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

**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.

DEC 8 1966  
OIL CON. COM.  
DIST. 2

## CASING RECORD

| SIZE   | WEIGHT PER FOOT | NEW OR USED | AMOUNT | KIND OF SHOE | CUT AND PULLED FROM | PERFORATIONS | PURPOSE    |
|--------|-----------------|-------------|--------|--------------|---------------------|--------------|------------|
| 2-3/8" | 24              | New         | 395'   | Guide        |                     |              | Surface    |
| 1-1/2" | 11.6            | New         | 275'   | Guide        |                     |              | Oil string |
| 1-1/2" | 9.5             | New         | 616'   | Guide        |                     |              | Oil string |

## MUDDING AND CEMENTING RECORD

| SIZE OF HOLE | SIZE OF CASING | WHERE SET | NO. BAGS OF CEMENT | METHOD USED          | MUD GRAVITY | AMOUNT OF MUD USED |
|--------------|----------------|-----------|--------------------|----------------------|-------------|--------------------|
| 12-1/4"      | 8-5/8"         | 315'      | 250                | B. J. Service 1 plug |             |                    |
| 7-7/8"       | 4-1/2"         | 6400'     | 375                | B. J. Service 2 plug |             |                    |

## RECORD OF PRODUCTION AND STIMULATION

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

Spotted 300 gallons 15% MEA. Perforated Dakota 6488-6493, 6517-6520, with 6 shots per foot. Sand-water fracked with 40,000 gallons water and 40,000 pounds sand. Breakdown pressure 1300 psi, average treating pressure 2300 psi, average injection rate 36 barrels per minute.

Result of Production Stimulation... Completed December 1, 1960, as Undesignated Dakota field development  
well. New field designation Basin Dakota field. Preliminary test 2039 MCFD.

...Depth Cleaned Out.....6450

# 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 6400 feet, and from feet to feet.  
Cable tools were used from feet to feet, and from feet to feet.

## PRODUCTION

Put to Producing December 1, 1960 (Shut in for pipeline connection)

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 Preliminary test

GAS WELL: The production during the first 24 hours was 2037 M.C.F. plus barrels of  
liquid Hydrocarbon. Shut in Pressure lbs. Potential test will be filed on Sundry Notice  
when available.

Length of Time Shut in

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

### Southeastern New Mexico

T. Anhy.  
T. Salt.  
B. Salt.  
T. Yates.  
T. 7 Rivers.  
T. Queen.  
T. Grayburg.  
T. San Andres.  
T. Glorieta.  
T. Drinkard.  
T. Tubbs.  
T. Abo.  
T. Penn.  
T. Miss.

T. Devonian.  
T. Silurian.  
T. Montoya.  
T. Simpson.  
T. McKee.  
T. Ellenburger.  
T. Gr. Wash.  
T. Granite.  
T.  
T.  
T.  
T.  
T.  
T.

### Northwestern New Mexico

T. Ojo Alamo. 320  
T. Kirtland-Fruitland. 250  
T. Farmington.  
T. Pictured Cliffs. 1895  
T. Menefee. 3450  
T. Point Lookout. 4290  
T. Mancos. 4595  
T. Dakota. 6400  
T. Morrison.  
T. Penn.  
T.  
T.  
T.

## FORMATION RECORD

| From | To   | Thickness<br>in Feet | Formation                           | From | To | Thickness<br>in Feet | Formation |
|------|------|----------------------|-------------------------------------|------|----|----------------------|-----------|
| 0    | 320  | 320                  | Surface sand and shale.             |      |    |                      |           |
| 320  | 500  | 180                  | Anhydrite sand and shale.           |      |    |                      |           |
| 500  | 1640 | 1140                 | Kirtland-Farmington sand and shale. |      |    |                      |           |
| 1640 | 1895 | 255                  | Fruitland sand, shale and coal.     |      |    |                      |           |
| 1895 | 2070 | 175                  | Pictured Cliffs sand and shale.     |      |    |                      |           |
| 2070 | 3562 | 1492                 | Louis sand and shale.               |      |    |                      |           |
| 3562 | 3650 | 88                   | Cliffhouse sand.                    |      |    |                      |           |
| 3650 | 4290 | 640                  | Menefee sand, shale and coal.       |      |    |                      |           |
| 4290 | 4595 | 305                  | Point Lookout sand and shale.       |      |    |                      |           |
| 4595 | 5530 | 935                  | Mancos shale.                       |      |    |                      |           |
| 5530 | 6297 | 767                  | Ballup sand and shale.              |      |    |                      |           |
| 6297 | 6330 | 33                   | Brownhorn sand and shale.           |      |    |                      |           |
| 6330 | 6420 | 90                   | Graneros shale.                     |      |    |                      |           |
| 6420 | 6475 | 55                   | Dakota sand and shale.              |      |    |                      |           |
| 6475 | 6480 | 5                    | Dakota pay sand and shale.          |      |    |                      |           |

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.

December 7, 1960

(Date)

Company or Operator Pan American Petroleum Corporation, Box 400, Farmington, New Mexico

ORIGINAL SIGNED BY

Name R. M. Bauer, Jr.

Position Title Area Engineer