

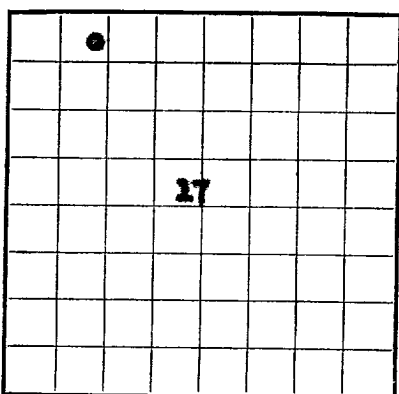
RECEIVED  
AUG 5 1957  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

Budget Bureau No. 42-R355.4.

Approval expires 12-31-60.

U. S. LAND OFFICE **New Mexico**SERIAL NUMBER **RM 6505**

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company **Southern Union Gas Company** Address **1001 East Elgin, Dallas, Texas**  
Lessor or Tract **Valley** Field **Wildcat** State **New Mexico**  
Well No. **1** Sec. **17** T. **24N** R. **31E** Meridian **N.M.P.M.** County **San Juan**  
Location **530** ft. **N.** of **N.** Line and **2000** ft. **E.** of **W.** Line of **Section 17** Elevation **6743**  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed **L. E. Mumford**Date **August 1, 1957**Title **Exploration Engineer**

The summary on this page is for the condition of the well at above date.

Commenced drilling **6-4**, 19**57** Finished drilling **6-28**, 19**57**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5318** to **5324 (G)** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **5279** to **5288 (G)** No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

| Size casing  | Weight per foot | Threads per inch | Make         | Amount     | Kind of shoe | Cut and pulled from | Perforated |     | Purpose           |
|--------------|-----------------|------------------|--------------|------------|--------------|---------------------|------------|-----|-------------------|
|              |                 |                  |              |            |              |                     | From—      | To— |                   |
| <b>9-5/8</b> | <b>23.30</b>    | <b>13</b>        | <b>3-1/2</b> | <b>150</b> |              |                     |            |     | <b>Production</b> |
| <b>5-7/8</b> | <b>15.60</b>    | <b>13</b>        | <b>3-1/2</b> | <b>150</b> |              |                     |            |     |                   |
| <b>3-1/2</b> | <b>10.20</b>    | <b>13</b>        | <b>3-1/2</b> | <b>150</b> |              |                     |            |     |                   |
| <b>2-1/8</b> | <b>5.40</b>     | <b>13</b>        | <b>3-1/2</b> | <b>150</b> |              |                     |            |     |                   |

## MUDDING AND CEMENTING RECORD

| Size casing  | Where set       | Number sacks of cement | Method used     | Mud gravity | Amount of mud used |
|--------------|-----------------|------------------------|-----------------|-------------|--------------------|
| <b>9-5/8</b> | <b>17' ID</b>   | <b>250</b>             | <b>Ballston</b> |             |                    |
| <b>5-7/8</b> | <b>5'10" ID</b> | <b>150</b>             | <b>Ballston</b> |             |                    |
| <b>3-1/2</b> | <b>5'10" ID</b> |                        |                 |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

| Size         | Shell used      | Explosive used | Quantity   | Date | Depth shot | Depth cleaned out |
|--------------|-----------------|----------------|------------|------|------------|-------------------|
| <b>3-1/2</b> | <b>17' ID</b>   | <b>250</b>     | <b>150</b> |      |            |                   |
| <b>5-7/8</b> | <b>5'10" ID</b> | <b>150</b>     | <b>150</b> |      |            |                   |
| <b>3-1/2</b> | <b>5'10" ID</b> |                |            |      |            |                   |

## TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

\_\_\_\_\_ 19\_\_\_\_ Put to producing \_\_\_\_\_ 19\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

Driller \_\_\_\_\_, Driller  
Driller \_\_\_\_\_, Driller

## FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET | FORMATION                |
|-------------|-------------|------------|--------------------------|
| <b>5318</b> | <b>5324</b> | <b>6</b>   | <b>Shale</b>             |
| <b>5324</b> | <b>5328</b> | <b>4</b>   | <b>Shale &amp; shale</b> |
| <b>5328</b> | <b>5332</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5332</b> | <b>5336</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5336</b> | <b>5340</b> | <b>4</b>   | <b>Shale &amp; shale</b> |
| <b>5340</b> | <b>5344</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5344</b> | <b>5348</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5348</b> | <b>5352</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5352</b> | <b>5356</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5356</b> | <b>5360</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5360</b> | <b>5364</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5364</b> | <b>5368</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5368</b> | <b>5372</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5372</b> | <b>5376</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5376</b> | <b>5380</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5380</b> | <b>5384</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5384</b> | <b>5388</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5388</b> | <b>5392</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5392</b> | <b>5396</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5396</b> | <b>5400</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5400</b> | <b>5404</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5404</b> | <b>5408</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5408</b> | <b>5412</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5412</b> | <b>5416</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5416</b> | <b>5420</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5420</b> | <b>5424</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5424</b> | <b>5428</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5428</b> | <b>5432</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5432</b> | <b>5436</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5436</b> | <b>5440</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5440</b> | <b>5444</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5444</b> | <b>5448</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5448</b> | <b>5452</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5452</b> | <b>5456</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5456</b> | <b>5460</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5460</b> | <b>5464</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5464</b> | <b>5468</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5468</b> | <b>5472</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5472</b> | <b>5476</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5476</b> | <b>5480</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5480</b> | <b>5484</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5484</b> | <b>5488</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5488</b> | <b>5492</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5492</b> | <b>5496</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5496</b> | <b>5500</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5500</b> | <b>5504</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5504</b> | <b>5508</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5508</b> | <b>5512</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5512</b> | <b>5516</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5516</b> | <b>5520</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5520</b> | <b>5524</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5524</b> | <b>5528</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5528</b> | <b>5532</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5532</b> | <b>5536</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5536</b> | <b>5540</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5540</b> | <b>5544</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5544</b> | <b>5548</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5548</b> | <b>5552</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5552</b> | <b>5556</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5556</b> | <b>5560</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5560</b> | <b>5564</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5564</b> | <b>5568</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5568</b> | <b>5572</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5572</b> | <b>5576</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5576</b> | <b>5580</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5580</b> | <b>5584</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5584</b> | <b>5588</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5588</b> | <b>5592</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5592</b> | <b>5596</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5596</b> | <b>5600</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5600</b> | <b>5604</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5604</b> | <b>5608</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5608</b> | <b>5612</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5612</b> | <b>5616</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5616</b> | <b>5620</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5620</b> | <b>5624</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5624</b> | <b>5628</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5628</b> | <b>5632</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5632</b> | <b>5636</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5636</b> | <b>5640</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5640</b> | <b>5644</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5644</b> | <b>5648</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5648</b> | <b>5652</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5652</b> | <b>5656</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5656</b> | <b>5660</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5660</b> | <b>5664</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5664</b> | <b>5668</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5668</b> | <b>5672</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5672</b> | <b>5676</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5676</b> | <b>5680</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5680</b> | <b>5684</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5684</b> | <b>5688</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5688</b> | <b>5692</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5692</b> | <b>5696</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5696</b> | <b>5700</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5700</b> | <b>5704</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5704</b> | <b>5708</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5708</b> | <b>5712</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5712</b> | <b>5716</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5716</b> | <b>5720</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5720</b> | <b>5724</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5724</b> | <b>5728</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5728</b> | <b>5732</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5732</b> | <b>5736</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5736</b> | <b>5740</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5740</b> | <b>5744</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5744</b> | <b>5748</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5748</b> | <b>5752</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5752</b> | <b>5756</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5756</b> | <b>5760</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5760</b> | <b>5764</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5764</b> | <b>5768</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5768</b> | <b>5772</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5772</b> | <b>5776</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5776</b> | <b>5780</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5780</b> | <b>5784</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5784</b> | <b>5788</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5788</b> | <b>5792</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5792</b> | <b>5796</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5796</b> | <b>5800</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5800</b> | <b>5804</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5804</b> | <b>5808</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5808</b> | <b>5812</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5812</b> | <b>5816</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5816</b> | <b>5820</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5820</b> | <b>5824</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5824</b> | <b>5828</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5828</b> | <b>5832</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5832</b> | <b>5836</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5836</b> | <b>5840</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5840</b> | <b>5844</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5844</b> | <b>5848</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5848</b> | <b>5852</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5852</b> | <b>5856</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5856</b> | <b>5860</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5860</b> | <b>5864</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5864</b> | <b>5868</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5868</b> | <b>5872</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5872</b> | <b>5876</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5876</b> | <b>5880</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5880</b> | <b>5884</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5884</b> | <b>5888</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5888</b> | <b>5892</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5892</b> | <b>5896</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5896</b> | <b>5900</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5900</b> | <b>5904</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5904</b> | <b>5908</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5908</b> | <b>5912</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5912</b> | <b>5916</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5916</b> | <b>5920</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5920</b> | <b>5924</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5924</b> | <b>5928</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5928</b> | <b>5932</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5932</b> | <b>5936</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5936</b> | <b>5940</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5940</b> | <b>5944</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5944</b> | <b>5948</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5948</b> | <b>5952</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5952</b> | <b>5956</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5956</b> | <b>5960</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5960</b> | <b>5964</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5964</b> | <b>5968</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5968</b> | <b>5972</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5972</b> | <b>5976</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5976</b> | <b>5980</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5980</b> | <b>5984</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5984</b> | <b>5988</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5988</b> | <b>5992</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5992</b> | <b>5996</b> | <b>4</b>   | <b>Shale</b>             |
| <b>5996</b> | <b>6000</b> | <b>4</b>   | <b>Shale</b>             |

Top:  
Pictured Cliffs 1605  
Point Lookout 4083  
Gallup 5002

FORMATION RECORD—Continued

RECEIVED  
AUG 5 1957  
U. S. BUREAU OF SURVEY  
WASHINGTON, NEW MEXICO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

[illegible]

✓ T0511000 1.78 372

County or District \_\_\_\_\_  
Town or Tract \_\_\_\_\_  
Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
W. of Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_  
M. \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_  
Elevation \_\_\_\_\_

The information given in this is a complete and correct record of the work done thereon.

\_\_\_\_\_

The summary on this page is for the condition of the well at above date.

OIL OR GAS SANDS OR ZONES

No. 4 from

to ..... No. 5, from .....  
to ..... No. 6, from .....

to \_\_\_\_\_ from \_\_\_\_\_ No. 3 from \_\_\_\_\_ to \_\_\_\_\_

of \_\_\_\_\_ mon 4.0% \_\_\_\_\_ of \_\_\_\_\_ mon 5.0%

| Sl. No. | Weight of the<br>Material | Material | Amount | Kind of the<br>Material | Cost and Bill Code | Particulars | Purpose |
|---------|---------------------------|----------|--------|-------------------------|--------------------|-------------|---------|
| 1       |                           |          |        |                         |                    |             |         |
| 2       |                           |          |        |                         |                    |             |         |
| 3       |                           |          |        |                         |                    |             |         |
| 4       |                           |          |        |                         |                    |             |         |
| 5       |                           |          |        |                         |                    |             |         |
| 6       |                           |          |        |                         |                    |             |         |
| 7       |                           |          |        |                         |                    |             |         |
| 8       |                           |          |        |                         |                    |             |         |
| 9       |                           |          |        |                         |                    |             |         |
| 10      |                           |          |        |                         |                    |             |         |
| 11      |                           |          |        |                         |                    |             |         |
| 12      |                           |          |        |                         |                    |             |         |
| 13      |                           |          |        |                         |                    |             |         |
| 14      |                           |          |        |                         |                    |             |         |
| 15      |                           |          |        |                         |                    |             |         |
| 16      |                           |          |        |                         |                    |             |         |
| 17      |                           |          |        |                         |                    |             |         |
| 18      |                           |          |        |                         |                    |             |         |
| 19      |                           |          |        |                         |                    |             |         |
| 20      |                           |          |        |                         |                    |             |         |
| 21      |                           |          |        |                         |                    |             |         |
| 22      |                           |          |        |                         |                    |             |         |
| 23      |                           |          |        |                         |                    |             |         |
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| 25      |                           |          |        |                         |                    |             |         |
| 26      |                           |          |        |                         |                    |             |         |
| 27      |                           |          |        |                         |                    |             |         |
| 28      |                           |          |        |                         |                    |             |         |
| 29      |                           |          |        |                         |                    |             |         |
| 30      |                           |          |        |                         |                    |             |         |
| 31      |                           |          |        |                         |                    |             |         |
| 32      |                           |          |        |                         |                    |             |         |
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| 34      |                           |          |        |                         |                    |             |         |
| 35      |                           |          |        |                         |                    |             |         |
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| 37      |                           |          |        |                         |                    |             |         |
| 38      |                           |          |        |                         |                    |             |         |
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| 40      |                           |          |        |                         |                    |             |         |
| 41      |                           |          |        |                         |                    |             |         |
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| 43      |                           |          |        |                         |                    |             |         |
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| 46      |                           |          |        |                         |                    |             |         |
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| 63      |                           |          |        |                         |                    |             |         |
| 64      |                           |          |        |                         |                    |             |         |
| 65      |                           |          |        |                         |                    |             |         |
| 66      |                           |          |        |                         |                    |             |         |
| 67      |                           |          |        |                         |                    |             |         |
| 68      |                           |          |        |                         |                    |             |         |
| 69      |                           |          |        |                         |                    |             |         |
| 70      |                           |          |        |                         |                    |             |         |
| 71      |                           |          |        |                         |                    |             |         |
| 72      |                           |          |        |                         |                    |             |         |
| 73      |                           |          |        |                         |                    |             |         |
| 74      |                           |          |        |                         |                    |             |         |
| 75      |                           |          |        |                         |                    |             |         |
| 76      |                           |          |        |                         |                    |             |         |
| 77      |                           |          |        |                         |                    |             |         |
| 78      |                           |          |        |                         |                    |             |         |
| 79      |                           |          |        |                         |                    |             |         |
| 80      |                           |          |        |                         |                    |             |         |
| 81      |                           |          |        |                         |                    |             |         |

with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was damaged, state size and location. If the well has been dynamited, give date, size, position, and results of pumping or balling of shot. If pumps or bridges were put in to test for water, state kind of material used, position, and results of pumping or balling.

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NUDDING AND CEMENTING RECORD

| Year | Number of cases of venereal disease | Number of cases of syphilis | Number of cases of gonorrhea | Number of cases of chancroid | Number of cases of lymphogranuloma venereum |
|------|-------------------------------------|-----------------------------|------------------------------|------------------------------|---------------------------------------------|
| 1964 | 1,000                               | 500                         | 1,500                        | 200                          | 100                                         |
| 1965 | 1,200                               | 600                         | 1,800                        | 250                          | 120                                         |
| 1966 | 1,400                               | 700                         | 2,000                        | 300                          | 150                                         |
| 1967 | 1,600                               | 800                         | 2,200                        | 350                          | 180                                         |
| 1968 | 1,800                               | 900                         | 2,400                        | 400                          | 200                                         |
| 1969 | 2,000                               | 1,000                       | 2,600                        | 450                          | 220                                         |
| 1970 | 2,200                               | 1,100                       | 2,800                        | 500                          | 250                                         |
| 1971 | 2,400                               | 1,200                       | 3,000                        | 550                          | 280                                         |
| 1972 | 2,600                               | 1,300                       | 3,200                        | 600                          | 300                                         |
| 1973 | 2,800                               | 1,400                       | 3,400                        | 650                          | 320                                         |
| 1974 | 3,000                               | 1,500                       | 3,600                        | 700                          | 350                                         |
| 1975 | 3,200                               | 1,600                       | 3,800                        | 750                          | 380                                         |
| 1976 | 3,400                               | 1,700                       | 4,000                        | 800                          | 400                                         |
| 1977 | 3,600                               | 1,800                       | 4,200                        | 850                          | 420                                         |
| 1978 | 3,800                               | 1,900                       | 4,400                        | 900                          | 450                                         |
| 1979 | 4,000                               | 2,000                       | 4,600                        | 950                          | 480                                         |
| 1980 | 4,200                               | 2,100                       | 4,800                        | 1,000                        | 500                                         |
| 1981 | 4,400                               | 2,200                       | 5,000                        | 1,050                        | 520                                         |
| 1982 | 4,600                               | 2,300                       | 5,200                        | 1,100                        | 550                                         |
| 1983 | 4,800                               | 2,400                       | 5,400                        | 1,150                        | 580                                         |
| 1984 | 5,000                               | 2,500                       | 5,600                        | 1,200                        | 600                                         |
| 1985 | 5,200                               | 2,600                       | 5,800                        | 1,250                        | 620                                         |
| 1986 | 5,400                               | 2,700                       | 6,000                        | 1,300                        | 650                                         |
| 1987 | 5,600                               | 2,800                       | 6,200                        | 1,350                        | 680                                         |
| 1988 | 5,800                               | 2,900                       | 6,400                        | 1,400                        | 700                                         |
| 1989 | 6,000                               | 3,000                       | 6,600                        | 1,450                        | 720                                         |
| 1990 | 6,200                               | 3,100                       | 6,800                        | 1,500                        | 750                                         |
| 1991 | 6,400                               | 3,200                       | 7,000                        | 1,550                        | 780                                         |
| 1992 | 6,600                               | 3,300                       | 7,200                        | 1,600                        | 800                                         |
| 1993 | 6,800                               | 3,400                       | 7,400                        | 1,650                        | 820                                         |
| 1994 | 7,000                               | 3,500                       | 7,600                        | 1,700                        | 850                                         |
| 1995 | 7,200                               | 3,600                       | 7,800                        | 1,750                        | 880                                         |
| 1996 | 7,400                               | 3,700                       | 8,000                        | 1,800                        | 900                                         |
| 1997 | 7,600                               | 3,800                       | 8,200                        | 1,850                        | 920                                         |
| 1998 | 7,800                               | 3,900                       | 8,400                        | 1,900                        | 950                                         |
| 1999 | 8,000                               | 4,000                       | 8,600                        | 1,950                        | 980                                         |
| 2000 | 8,200                               | 4,100                       | 8,800                        | 2,000                        | 1,000                                       |
| 2001 | 8,400                               | 4,200                       | 9,000                        | 2,050                        | 1,020                                       |
| 2002 | 8,600                               | 4,300                       | 9,200                        | 2,100                        | 1,050                                       |
| 2003 | 8,800                               | 4,400                       | 9,400                        | 2,150                        | 1,080                                       |
| 2004 | 9,000                               | 4,500                       | 9,600                        | 2,200                        | 1,100                                       |
| 2005 | 9,200                               | 4,600                       | 9,800                        | 2,250                        | 1,120                                       |
| 2006 | 9,400                               | 4,700                       | 10,000                       | 2,300                        | 1,150                                       |
| 2007 | 9,600                               | 4,800                       | 10,200                       | 2,350                        | 1,180                                       |
| 2008 | 9,800                               | 4,900                       | 10,400                       | 2,400                        | 1,200                                       |
| 2009 | 10,000                              | 5,000                       | 10,600                       | 2,450                        | 1,220                                       |
| 2010 | 10,200                              | 5,100                       | 10,800                       | 2,500                        | 1,250                                       |
| 2011 | 10,400                              | 5,200                       | 11,000                       | 2,550                        | 1,280                                       |
| 2012 | 10,600                              | 5,300                       | 11,200                       | 2,600                        | 1,300                                       |
| 2013 | 10,800                              | 5,400                       | 11,400                       | 2,650                        | 1,320                                       |
| 2014 | 11,000                              | 5,500                       | 11,600                       | 2,700                        | 1,350                                       |
| 2015 | 11,200                              | 5,600                       | 11,800                       | 2,750                        | 1,380                                       |
| 2016 | 11,400                              | 5,700                       | 12,000                       | 2,800                        | 1,400                                       |
| 2017 | 11,600                              | 5,800                       | 12,200                       | 2,850                        | 1,420                                       |
| 2018 | 11,800                              | 5,900                       | 12,400                       | 2,900                        | 1,450                                       |
| 2019 | 12,000                              | 6,000                       | 12,600                       | 2,950                        | 1,480                                       |
| 2020 | 12,200                              | 6,100                       | 12,800                       | 3,00                         |                                             |

[illegible]

PLUGS AND ADAPTERS

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349</ |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleared out |
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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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FORMATION RECORD—Continued