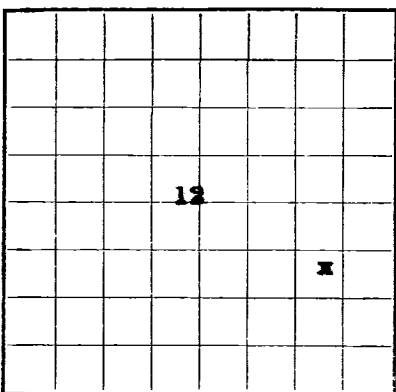


U. S. LAND OFFICE  
SERIAL NUMBER **Jicarilla**  
LEASE OR PERMIT TO PROSPECT  
**Contract #126**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Northwest Production Corporation** Address **520 Simms Building, Albuquerque, N.M.**  
Lessor or Tract **"S"** Field **Wildcat (PC)** State **New Mexico**  
Well No. **13-12** Sec. **12** T. **24N** R. **4W** Meridian **NMPM** County **Rio Arriba**  
Location **1250** ft. [N] of Sec. Line and **990** ft. [E] of Sec. Line of **Sec. 12** Elevation **6220.0** Gr  
(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 **RAY PHILLIPS**  
Date **9-29-56** Title **Asst. Mgr., Production Oper.**

The summary on this page is for the condition of the well at above date.  
Commenced drilling **7-28-56**, 19... Finished drilling **9-28**, 19**56**

OIL OR GAS SANDS OR ZONES  
(Denote gas by G)

No. 1, from **2997** to **3003** **G** No. 4, from **3037** to **3041** **G**  
No. 2, from **3007** to **3011** **G** No. 5, from **3049** to **3053** **G**  
No. 3, from **3019** to **3027** **G** No. 6, from to

IMPORTANT WATER SANDS

No. 1, from **None** to **None** 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>7-5/8</b> | <b>240</b>      | <b>8 RD</b>      | <b>Behr</b> | <b>27.53</b>   | <b>Ball</b>  |                     |             |             |              |
| <b>4-1/2</b> | <b>6.5</b>      | <b>8 RD</b>      | <b>Behr</b> | <b>3141.20</b> | <b>Ball</b>  |                     | <b>2997</b> | <b>3053</b> | <b>Compl</b> |
| <b>1-1/4</b> | <b>2.3</b>      | <b>10 RD</b>     |             | <b>2222.0</b>  |              |                     |             |             |              |

MUDDING AND CEMENTING RECORD

| Size casing  | Where set      | Number sacks of cement          | Method used | Mud gravity | Amount of mud used |
|--------------|----------------|---------------------------------|-------------|-------------|--------------------|
| <b>7-5/8</b> | <b>104.98</b>  | <b>75</b>                       | <b>BMCO</b> |             |                    |
| <b>4-1/2</b> | <b>3140.20</b> | <b>100 w/1/2 floccs/sr BMCO</b> |             |             |                    |

PLUGS AND ADAPTERS

Heaving plug—Material **None** Length Depth set  
Adapters—Material Size

SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

TOOLS USED

Rotary tools were used from **0** feet to **3150** feet, and from feet to feet  
Cable tools were used from feet to feet, and from feet to feet

DATES

**September 28**, 19**56** Put to producing , 19...  
The production for the first 24 hours was barrels of fluid of which % was oil; %  
emulsion; % water; and % sediment. Gravity, °Bé.  
If gas well, MCF per 24 hours **4443 CAD** Gallons gasoline per 1,000 cu. ft. of gas  
Rock pressure, lbs. per sq. in. **51 TP 10215; 51 CP 10215. 51 days.**  
EMPLOYEES **28**

**L. A. Bedford**, Driller **Edgar Belg Rngr**, Driller  
Driller, Driller

FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET  | FORMATION                                             |
|-------------|-------------|-------------|-------------------------------------------------------|
| <b>0</b>    | <b>2510</b> | <b>2510</b> | <b>Surface</b>                                        |
| <b>2510</b> | <b>2700</b> | <b>190</b>  | <b>Ojo Alamo - Sand w/some shale</b>                  |
| <b>2700</b> | <b>2810</b> | <b>110</b>  | <b>Kirtland - Shale w/some sand</b>                   |
| <b>2810</b> | <b>2973</b> | <b>163</b>  | <b>Fruitland - Interbedded sand, shale &amp; coal</b> |
| <b>2973</b> | <b>3055</b> | <b>82</b>   | <b>Pictured Cliffs - Sand</b>                         |
| <b>3055</b> | <b>3150</b> | <b>95</b>   | <b>Louis - Shale</b>                                  |

FORMATION RECORDED TO DEPTH