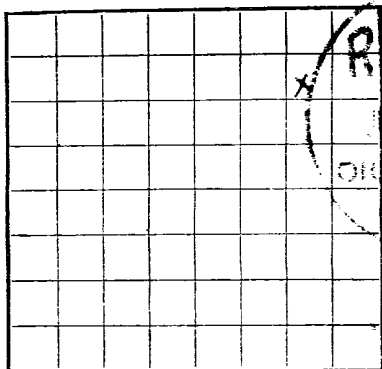




LOCATE WELL CORRECTLY

U. S. LAND OFFICE  
SERIAL NUMBER **SF-078100**  
LEASE OR PERMIT TO PROSPECTUNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company **Southwest Production Co.** Address **162 Petroleum Center Bldg.**  
Lessor or Tract **Warren Federal** Field **Undes. (Dak)** State **New Mexico**  
Well No. **#1** Sec. **17** T. **27N** R. **12W** Meridian **NMPM** County **San Juan**  
Location **790** ft. **N.** of Line and **790** ft. **E.** of Line of **Sec. 17** Elevation **5758** GL  
(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

Date **7/6/60**Title **Production Supt. Engr.**

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

Commenced drilling **4/24**, 19 **60** Finished drilling **6/17**, 19 **60**OIL OR GAS SANDS OR ZONES  
(Denote gas by G)

No. 1, from **G 5834** to **5984** No. 4, from to  
No. 2, from to 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>8 1/2</b> | <b>22.73</b>    | <b>3</b>         | <b>J-55</b> | <b>191 ft</b> |              |                     |            |     |         |
| <b>4 1/2</b> | <b>11.60</b>    | <b>3</b>         | <b>J-55</b> | <b>191 ft</b> |              |                     |            |     |         |
| <b>2"</b>    | <b>4.70</b>     |                  |             |               |              |                     |            |     |         |

## MUDDING AND CEMENTING RECORD

| Size casing  | Where set       | Number sacks of cement | Method used                                                                                                                         | Mud gravity | Amount of mud used |
|--------------|-----------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|
| <b>8 1/2</b> | <b>332 RBM</b>  | <b>230 sx</b>          | <b>reg. cement / 3% Calcium Chloride</b>                                                                                            |             |                    |
| <b>4 1/2</b> | <b>6030 RBM</b> | <b>150 sx</b>          | <b>50/50 Pozmix / 4% Gel followed w/ 50 sx neat / 45 gals laytex cemented thru 2 stage tool w/ 75 sx 50/50 Pozmix &amp; 4% Gel.</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 |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from **-0-** feet to **6030'** feet, and from feet to feet  
Cable tools were used from feet to feet, and from feet to feet

## DATES

**6/27**, 19 **60** 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, cu. ft. per 24 hours **3,268 MCF** Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. **3,856 ACF 3 hr test.**

## EMPLOYEES

**J. V. Gay**, Driller **Summit Drlg. Co.**, Driller  
**P. B. Cokrel**, Driller **R. E. Luthe**, Driller

## FORMATION RECORD

| FROM— | TO— | TOTAL FEET | FORMATION          |
|-------|-----|------------|--------------------|
|       |     |            | Electric Log Tops: |
|       |     |            | Kirtland 825       |
|       |     |            | Pictured C 1300    |
|       |     |            | Lewis 1494         |
|       |     |            | Mesaverde 2160     |
|       |     |            | Menefee 2220       |
|       |     |            | Point Lkt. 3660    |
|       |     |            | Mancos 4025        |
|       |     |            | Gallup 4967        |
|       |     |            | Greenhorn 5710     |
|       |     |            | Graneros 5772      |
|       |     |            | Dakota 5834        |
|       |     |            | Total Depth 6030'  |
|       |     |            | Plugged Back 5994' |
| FROM— | TO— | TOTAL FEET | FORMATION          |



6/12/60 Dumped 250# Hydromite squeezed in formation max. press. 1000#  
Drilled out 10' tested csg., broke down @ 2700#. Dumped 200# of Hydromite  
squeezed in formation max. press. 3000# wait 14 hrs. drilled out & tested  
w/3000# for 5 min. squeeze held ok. Drilled out retainers prepare to swab  
test bottom perfs.

6/13/60 4½" csg. set @ 6030' KBM cemented w/200 sx, 150 sx 1-1 Pozmix  
2% Gel / 50 sx laytex cement. Baker staging collar @ 1471' cemented w/75  
sx 1-1 Pozmix. Collar did not close squeezed w/approx. 800 sx of various  
types of cement & 700# Hydromite, final press. 3000#.

6/14/60 Perf. from 5984 to 5966' w/4 ½" jets per ft. acidized w/250 gals.  
MA w/M-38, 2,000# break press. Fractured w/824 bbls. of Gelled water &  
20,000# 20-40 sand treating press. 4500# down 2" tbg. @ 5930' Baker full  
bore set @ 5870'. Shut in press. 3400#.

6/15/60 Perfs. from 5916-5882; 5858-5834; 4 ½" jets per ft. set Baker  
retrievable bridging plug @ 5930' acidized w/750 gals MA thru 2" tbg.  
with packer set @ 5820' Break down press. 1500#. Pull tbg. frac down  
4½" csg. using 1324 bbls of gelled water & 60,000# of 20-40 sand, treating  
pressure 2800# inj. rate 27/6 bbls per min. Shut-in pressure 2200#.

6/16/60 Ran 2" tbg. picked up bridging plug @ 5930' pulled out of hole,  
ran 2 3/8" production string with pin collar on bottom to 5978', 191 jts.

6/17/60 Swabbed well in @ 6:30 AM. Released rig @ 8:00 AM. Well blowing  
to clean up.

6/27/60 Tested thru 3/4" choke. 3,268 MCF/D, 3,856 AOF, SICP 1813 after  
7 days.

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. The letter is addressed to the Senate and the House of Representatives. It is a long letter, and it contains a great deal of information about the state of the country at that time. The President discusses the war with the South, the economy, and the future of the nation. He also mentions the importance of the Congress in making decisions about the country.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the Treasury, the amount of money in the Treasury, and the amount of money that has been spent. The Secretary also discusses the importance of the Treasury in making decisions about the country.

3. The third part of the document is a report from the Secretary of the Interior, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the Interior, the amount of land in the Interior, and the amount of money that has been spent. The Secretary also discusses the importance of the Interior in making decisions about the country.

4. The fourth part of the document is a report from the Secretary of the War, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the War, the amount of soldiers in the War, and the amount of money that has been spent. The Secretary also discusses the importance of the War in making decisions about the country.

5. The fifth part of the document is a report from the Secretary of the Navy, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the Navy, the amount of ships in the Navy, and the amount of money that has been spent. The Secretary also discusses the importance of the Navy in making decisions about the country.

6. The sixth part of the document is a report from the Secretary of the State, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the State, the amount of territory in the State, and the amount of money that has been spent. The Secretary also discusses the importance of the State in making decisions about the country.

7. The seventh part of the document is a report from the Secretary of the Education, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the Education, the amount of schools in the Education, and the amount of money that has been spent. The Secretary also discusses the importance of the Education in making decisions about the country.

8. The eighth part of the document is a report from the Secretary of the Agriculture, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the Agriculture, the amount of land in the Agriculture, and the amount of money that has been spent. The Secretary also discusses the importance of the Agriculture in making decisions about the country.

9. The ninth part of the document is a report from the Secretary of the Commerce, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the Commerce, the amount of trade in the Commerce, and the amount of money that has been spent. The Secretary also discusses the importance of the Commerce in making decisions about the country.

10. The tenth part of the document is a report from the Secretary of the Finance, dated January 3, 1862. The report is addressed to the President and the Congress. It contains information about the state of the Finance, the amount of money in the Finance, and the amount of money that has been spent. The Secretary also discusses the importance of the Finance in making decisions about the country.