

Form 9-230

A grid map with 10 columns and 10 rows. The text "Section 20" is located in the 4th column from the left and the 4th row from the bottom. The text "#4" is located in the 9th column from the left and the 7th row from the bottom. A small black dot is positioned directly below the "#4" text.

**LOCATE WELL CORRECTLY**

RECEIVED  
JAN 22 1958  
U.S. CON. COM.  
DIST. 3  
DEPARTMENT

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER N.M. 013492  
LEASE OR PERMIT TO PROSPECT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company SKELLY OIL COMPANY Address Farmington, New Mexico  
Lessor or Tract A. L. Duff Field Bisti (Gallup) State New Mexico  
Well No. 4 Sec. 20 T26N R13W Meridian N.M.P.M. County San Juan  
Location 1980 ft. [S.] of N. Line and 660 ft. [W.] of E. Line of Section 20 Elevation 6365' D.F.  
(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 \_\_\_\_\_ Richard P. L. Foster

Date January 21, 1958 Title District Superintendent

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

Commenced drilling October 25, 1957 Finished drilling November 9, 1957

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 52124 to 52194 No. 4, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from 5224 to 5229 No. 5, from \_\_\_\_\_ to \_\_\_\_\_

No. 3. from \_\_\_\_\_ to \_\_\_\_\_ No. 6 from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from None to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_

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

## CASING RECORD

[illegible]

## MUDDING AND CEMENTING RECORD

|      | Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|------|-------------|-----------|------------------------|-------------|-------------|--------------------|
| MARK | 10-3/4" N   | 266'      | 275                    | Halliburton | Circulated  |                    |
|      | 5-1/2" N    | 5274'     | 250                    | Halliburton |             |                    |
|      |             |           |                        |             |             |                    |

## 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 |
|--------------------------------------------------------------------------------------|------------|----------------|----------|------|------------|-------------------|
| Pressed down 5 1/2" OD casing through perforations 5212 1/2' - 19 1/2' & 5224' - 28' |            |                |          |      |            |                   |
| with 40,000# sand & 33,400 gals. iso. oil. BDP 2500#, Max. TP 2650#, min. TP 2300#.  |            |                |          |      |            |                   |
| ini. rate 1 1/2 RPM                                                                  |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 5281 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

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

## DATES

-----, 19----- Put to producing ----- **January 15** 19**58**

The production for the first 24 hours was 16 barrels of fluid of which 99.8% was oil; .2% emulsion; 0% water; and 0% sediment. Gravity, °Bé. 38.5

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

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

## EMPLOYEES

~~Empire Sates Drilling Corp.~~, Driller \_\_\_\_\_, Driller

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

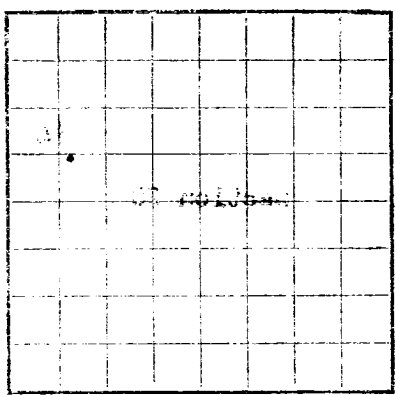
### FORMATION RECORD

| FROM—                           | TO—  | TOTAL FEET   | FORMATION       |
|---------------------------------|------|--------------|-----------------|
| 0                               | 1580 | 1580         | Sand & Shale.   |
| 1580                            | 1655 | 75           | Pictured Cliffs |
| 1655                            | 3062 | 1407         | Lewis           |
| 3062                            | 3070 | 8            | Cliff House     |
| 3070                            | 4000 | 930          | Menefee         |
| 4000                            | 4147 | 147          | Point Lookout   |
| 4147                            | 5092 | 945          | Mancos          |
| 5092                            | 5202 | 110          | Gallup "H"      |
| 5202                            | 5281 | 79           | Gallup "J"      |
| <u>TOTAL DEPTH</u>              |      | <u>5281'</u> |                 |
| <u>PLUGGED BACK TOTAL DEPTH</u> |      | <u>5244'</u> |                 |

[OVER]

16-43094-4

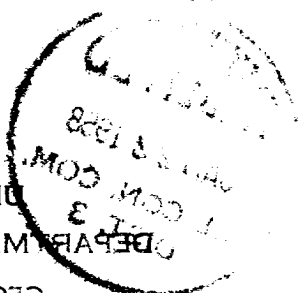
LONG-TERM RECORDS - 1971-1980



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
UNITED STATES



U.S. Land Office  
Special Agent in Charge  
Leave on Permit to Prospect

Company \_\_\_\_\_  
Lessor or Tract \_\_\_\_\_  
Well No. \_\_\_\_\_  
Location \_\_\_\_\_ of \_\_\_\_\_  
The information given herewith is a complete and correct record of the well and all work done thereon  
as far as can be determined from all available records.  
Signed \_\_\_\_\_  
Date \_\_\_\_\_

The summary on this page is for the condition of the well at above date.  
Commenced drilling \_\_\_\_\_  
Finished drilling \_\_\_\_\_

OIL OR GAS SANDS OR ZONES

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

IMPORTANT WATER SANDS

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

CASING RECORD

| Size of casing | Length of casing | Weight of casing | Kind of steel | Amount | Notes |
|----------------|------------------|------------------|---------------|--------|-------|
|                |                  |                  |               |        |       |

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and the results. If there were any changes made in the casing, state fully and in detail the reasons therefor. If the well has been dynamited, state date, size of charge, position, and results of dynamiting. If pipes or bridges were put in to test for water, state kind of material used, position, and results of pumping or pulling.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 16-49064-2

MUDDING AND CEMENTING RECORD

| Size of casing | Weight of casing | Number sacks of cement | Method used | Mud grade | Amount of mud used |
|----------------|------------------|------------------------|-------------|-----------|--------------------|
|                |                  |                        |             |           |                    |

SHOOTING RECORD

| Size of casing | Weight of casing | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|----------------|------------------|----------------|----------|------|------------|-------------------|
|                |                  |                |          |      |            |                   |

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

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% was water; and \_\_\_\_\_% sediment.  
If gas well, oil per 24 hours \_\_\_\_\_  
Rock pressure, lbs. per sq. in. \_\_\_\_\_  
Gallons gasoline per 1000 cu. ft. of gas \_\_\_\_\_  
Gravity, 80° F. \_\_\_\_\_  
Put to producing \_\_\_\_\_

EMPLOYEES

Driller \_\_\_\_\_  
Driller \_\_\_\_\_

FORMATION RECORD

| FROM | TO    | TOTAL FEET | FORMATION |
|------|-------|------------|-----------|
| 1500 | 1550  | 50         | Shale     |
| 1550 | 1600  | 50         | Shale     |
| 1600 | 1650  | 50         | Shale     |
| 1650 | 1700  | 50         | Shale     |
| 1700 | 1750  | 50         | Shale     |
| 1750 | 1800  | 50         | Shale     |
| 1800 | 1850  | 50         | Shale     |
| 1850 | 1900  | 50         | Shale     |
| 1900 | 1950  | 50         | Shale     |
| 1950 | 2000  | 50         | Shale     |
| 2000 | 2050  | 50         | Shale     |
| 2050 | 2100  | 50         | Shale     |
| 2100 | 2150  | 50         | Shale     |
| 2150 | 2200  | 50         | Shale     |
| 2200 | 2250  | 50         | Shale     |
| 2250 | 2300  | 50         | Shale     |
| 2300 | 2350  | 50         | Shale     |
| 2350 | 2400  | 50         | Shale     |
| 2400 | 2450  | 50         | Shale     |
| 2450 | 2500  | 50         | Shale     |
| 2500 | 2550  | 50         | Shale     |
| 2550 | 2600  | 50         | Shale     |
| 2600 | 2650  | 50         | Shale     |
| 2650 | 2700  | 50         | Shale     |
| 2700 | 2750  | 50         | Shale     |
| 2750 | 2800  | 50         | Shale     |
| 2800 | 2850  | 50         | Shale     |
| 2850 | 2900  | 50         | Shale     |
| 2900 | 2950  | 50         | Shale     |
| 2950 | 3000  | 50         | Shale     |
| 3000 | 3050  | 50         | Shale     |
| 3050 | 3100  | 50         | Shale     |
| 3100 | 3150  | 50         | Shale     |
| 3150 | 3200  | 50         | Shale     |
| 3200 | 3250  | 50         | Shale     |
| 3250 | 3300  | 50         | Shale     |
| 3300 | 3350  | 50         | Shale     |
| 3350 | 3400  | 50         | Shale     |
| 3400 | 3450  | 50         | Shale     |
| 3450 | 3500  | 50         | Shale     |
| 3500 | 3550  | 50         | Shale     |
| 3550 | 3600  | 50         | Shale     |
| 3600 | 3650  | 50         | Shale     |
| 3650 | 3700  | 50         | Shale     |
| 3700 | 3750  | 50         | Shale     |
| 3750 | 3800  | 50         | Shale     |
| 3800 | 3850  | 50         | Shale     |
| 3850 | 3900  | 50         | Shale     |
| 3900 | 3950  | 50         | Shale     |
| 3950 | 4000  | 50         | Shale     |
| 4000 | 4050  | 50         | Shale     |
| 4050 | 4100  | 50         | Shale     |
| 4100 | 4150  | 50         | Shale     |
| 4150 | 4200  | 50         | Shale     |
| 4200 | 4250  | 50         | Shale     |
| 4250 | 4300  | 50         | Shale     |
| 4300 | 4350  | 50         | Shale     |
| 4350 | 4400  | 50         | Shale     |
| 4400 | 4450  | 50         | Shale     |
| 4450 | 4500  | 50         | Shale     |
| 4500 | 4550  | 50         | Shale     |
| 4550 | 4600  | 50         | Shale     |
| 4600 | 4650  | 50         | Shale     |
| 4650 | 4700  | 50         | Shale     |
| 4700 | 4750  | 50         | Shale     |
| 4750 | 4800  | 50         | Shale     |
| 4800 | 4850  | 50         | Shale     |
| 4850 | 4900  | 50         | Shale     |
| 4900 | 4950  | 50         | Shale     |
| 4950 | 5000  | 50         | Shale     |
| 5000 | 5050  | 50         | Shale     |
| 5050 | 5100  | 50         | Shale     |
| 5100 | 5150  | 50         | Shale     |
| 5150 | 5200  | 50         | Shale     |
| 5200 | 5250  | 50         | Shale     |
| 5250 | 5300  | 50         | Shale     |
| 5300 | 5350  | 50         | Shale     |
| 5350 | 5400  | 50         | Shale     |
| 5400 | 5450  | 50         | Shale     |
| 5450 | 5500  | 50         | Shale     |
| 5500 | 5550  | 50         | Shale     |
| 5550 | 5600  | 50         | Shale     |
| 5600 | 5650  | 50         | Shale     |
| 5650 | 5700  | 50         | Shale     |
| 5700 | 5750  | 50         | Shale     |
| 5750 | 5800  | 50         | Shale     |
| 5800 | 5850  | 50         | Shale     |
| 5850 | 5900  | 50         | Shale     |
| 5900 | 5950  | 50         | Shale     |
| 5950 | 6000  | 50         | Shale     |
| 6000 | 6050  | 50         | Shale     |
| 6050 | 6100  | 50         | Shale     |
| 6100 | 6150  | 50         | Shale     |
| 6150 | 6200  | 50         | Shale     |
| 6200 | 6250  | 50         | Shale     |
| 6250 | 6300  | 50         | Shale     |
| 6300 | 6350  | 50         | Shale     |
| 6350 | 6400  | 50         | Shale     |
| 6400 | 6450  | 50         | Shale     |
| 6450 | 6500  | 50         | Shale     |
| 6500 | 6550  | 50         | Shale     |
| 6550 | 6600  | 50         | Shale     |
| 6600 | 6650  | 50         | Shale     |
| 6650 | 6700  | 50         | Shale     |
| 6700 | 6750  | 50         | Shale     |
| 6750 | 6800  | 50         | Shale     |
| 6800 | 6850  | 50         | Shale     |
| 6850 | 6900  | 50         | Shale     |
| 6900 | 6950  | 50         | Shale     |
| 6950 | 7000  | 50         | Shale     |
| 7000 | 7050  | 50         | Shale     |
| 7050 | 7100  | 50         | Shale     |
| 7100 | 7150  | 50         | Shale     |
| 7150 | 7200  | 50         | Shale     |
| 7200 | 7250  | 50         | Shale     |
| 7250 | 7300  | 50         | Shale     |
| 7300 | 7350  | 50         | Shale     |
| 7350 | 7400  | 50         | Shale     |
| 7400 | 7450  | 50         | Shale     |
| 7450 | 7500  | 50         | Shale     |
| 7500 | 7550  | 50         | Shale     |
| 7550 | 7600  | 50         | Shale     |
| 7600 | 7650  | 50         | Shale     |
| 7650 | 7700  | 50         | Shale     |
| 7700 | 7750  | 50         | Shale     |
| 7750 | 7800  | 50         | Shale     |
| 7800 | 7850  | 50         | Shale     |
| 7850 | 7900  | 50         | Shale     |
| 7900 | 7950  | 50         | Shale     |
| 7950 | 8000  | 50         | Shale     |
| 8000 | 8050  | 50         | Shale     |
| 8050 | 8100  | 50         | Shale     |
| 8100 | 8150  | 50         | Shale     |
| 8150 | 8200  | 50         | Shale     |
| 8200 | 8250  | 50         | Shale     |
| 8250 | 8300  | 50         | Shale     |
| 8300 | 8350  | 50         | Shale     |
| 8350 | 8400  | 50         | Shale     |
| 8400 | 8450  | 50         | Shale     |
| 8450 | 8500  | 50         | Shale     |
| 8500 | 8550  | 50         | Shale     |
| 8550 | 8600  | 50         | Shale     |
| 8600 | 8650  | 50         | Shale     |
| 8650 | 8700  | 50         | Shale     |
| 8700 | 8750  | 50         | Shale     |
| 8750 | 8800  | 50         | Shale     |
| 8800 | 8850  | 50         | Shale     |
| 8850 | 8900  | 50         | Shale     |
| 8900 | 8950  | 50         | Shale     |
| 8950 | 9000  | 50         | Shale     |
| 9000 | 9050  | 50         | Shale     |
| 9050 | 9100  | 50         | Shale     |
| 9100 | 9150  | 50         | Shale     |
| 9150 | 9200  | 50         | Shale     |
| 9200 | 9250  | 50         | Shale     |
| 9250 | 9300  | 50         | Shale     |
| 9300 | 9350  | 50         | Shale     |
| 9350 | 9400  | 50         | Shale     |
| 9400 | 9450  | 50         | Shale     |
| 9450 | 9500  | 50         | Shale     |
| 9500 | 9550  | 50         | Shale     |
| 9550 | 9600  | 50         | Shale     |
| 9600 | 9650  | 50         | Shale     |
| 9650 | 9700  | 50         | Shale     |
| 9700 | 9750  | 50         | Shale     |
| 9750 | 9800  | 50         | Shale     |
| 9800 | 9850  | 50         | Shale     |
| 9850 | 9900  | 50         | Shale     |
| 9900 | 9950  | 50         | Shale     |
| 9950 | 10000 | 50         | Shale     |

FORMATION RECORD—Continued