

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER S.F. 079162  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

LOCATE WELL CORRECTLY

Company Kingsley-Locke Oil Co. Address 1400 Luhrs Tower  
Phoenix, Arizona

Lessor or Tract M.K.L. Field S. Blanco State New Mexico

Well No. 5-12 Sec. 5 T. 26N R. 7W Meridian N.M.P.M. County Rio Arriba

Location 1760ft. {N.} of S. Line and 330ft. {E.} of W. Line of section 8 Elevation 6,093 g.  
(Barrier 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.

Date August 20, 1952 Signed F. W. Arner  
Title Geologist

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

Commenced drilling 6/29/52, 1952 Finished drilling 8/10/52, 1952

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

No. 1, from 2,165 to 2,174 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

**RECEIVED**  
 JUN 5 1952

## IMPORTANT WATER SANDS

No. 1, from 550 to 1,405 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— |                    |
| 1 1/2       | 12 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 1 3/4       | 13 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 2           | 15              | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 2 1/4       | 16 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 2 1/2       | 17 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 2 3/4       | 18 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 3           | 19 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 3 1/4       | 20 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 3 1/2       | 21 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 3 3/4       | 22 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 4           | 23 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 4 1/4       | 24 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 4 1/2       | 25 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 4 3/4       | 26 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 5           | 27 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 5 1/4       | 28 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 5 1/2       | 29 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 5 3/4       | 30 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 6           | 31 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 6 1/4       | 32 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 6 1/2       | 33 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 6 3/4       | 34 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 7           | 35 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 7 1/4       | 36 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 7 1/2       | 37 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 7 3/4       | 38 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 8           | 39 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 8 1/4       | 40 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 8 1/2       | 41 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 8 3/4       | 42 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 9           | 43 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 9 1/4       | 44 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 9 1/2       | 45 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 9 3/4       | 46 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 10          | 47 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 10 1/4      | 48 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 10 1/2      | 49 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 10 3/4      | 50 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 11          | 51 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 11 1/4      | 52 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 11 1/2      | 53 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 11 3/4      | 54 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 12          | 55 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 12 1/4      | 56 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 12 1/2      | 57 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 12 3/4      | 58 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 13          | 59 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 13 1/4      | 60 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 13 1/2      | 61 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 13 3/4      | 62 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 14          | 63 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 14 1/4      | 64 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 14 1/2      | 65 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 14 3/4      | 66 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 15          | 67 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 15 1/4      | 68 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 15 1/2      | 69 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 15 3/4      | 70 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 16          | 71 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 16 1/4      | 72 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 16 1/2      | 73 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 16 3/4      | 74 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 17          | 75 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 17 1/4      | 76 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 17 1/2      | 77 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 17 3/4      | 78 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 18          | 79 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 18 1/4      | 80 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 18 1/2      | 81 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 18 3/4      | 82 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 19          | 83 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 19 1/4      | 84 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 19 1/2      | 85 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 19 3/4      | 86 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 20          | 87 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 20 1/4      | 88 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 20 1/2      | 89 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 20 3/4      | 90 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 21          | 91 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 21 1/4      | 92 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 21 1/2      | 93 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 21 3/4      | 94 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 22          | 95 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 22 1/4      | 96 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 22 1/2      | 97 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 22 3/4      | 98 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 23          | 99 1/2          | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 23 1/4      | 100 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 23 1/2      | 101 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 23 3/4      | 102 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 24          | 103 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 24 1/4      | 104 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 24 1/2      | 105 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 24 3/4      | 106 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 25          | 107 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 25 1/4      | 108 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 25 1/2      | 109 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 25 3/4      | 110 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 26          | 111 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 26 1/4      | 112 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 26 1/2      | 113 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 26 3/4      | 114 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 27          | 115 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 27 1/4      | 116 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 27 1/2      | 117 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 27 3/4      | 118 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 28          | 119 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 28 1/4      | 120 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 28 1/2      | 121 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 28 3/4      | 122 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 29          | 123 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 29 1/4      | 124 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 29 1/2      | 125 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 29 3/4      | 126 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 30          | 127 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 30 1/4      | 128 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 30 1/2      | 129 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 30 3/4      | 130 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 31          | 131 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 31 1/4      | 132 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 31 1/2      | 133 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 31 3/4      | 134 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 32          | 135 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 32 1/4      | 136 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 32 1/2      | 137 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 32 3/4      | 138 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 33          | 139 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 33 1/4      | 140 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 33 1/2      | 141 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 33 3/4      | 142 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 34          | 143 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 34 1/4      | 144 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 34 1/2      | 145 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 34 3/4      | 146 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 35          | 147 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 35 1/4      | 148 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 35 1/2      | 149 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 35 3/4      | 150 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 36          | 151 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 36 1/4      | 152 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 36 1/2      | 153 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 36 3/4      | 154 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 37          | 155 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 37 1/4      | 156 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 37 1/2      | 157 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 37 3/4      | 158 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 38          | 159 1/2         | 8                | National | 100    | adhes        | 100                 | 100        | 100 | Surface Production |
| 38 1/4      | 160 1/2         | 8                | National | 100    |              |                     |            |     |                    |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------|------------------------|-------------|-------------|--------------------|
| 10 3/4"     | 90'       | 95                     | Haliburton  |             |                    |
| 5 1/2"      | 2,123'    | 238 1/8                | Haliburton  |             |                    |

## 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 |
|--------|------------|----------------|----------|---------|------------|-------------------|
| 4 1/2" |            | Nitro-gel      | 120cts   | 7/24/52 | 2140-2194  | 2194              |
|        |            |                |          |         |            |                   |
|        |            |                |          |         |            |                   |
|        |            |                |          |         |            |                   |

## TOOLS USED

Rotary tools were used from 0 feet to 2,794 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

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

## DATES

August 20 1952 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 6,650 MCF      Gallons gasoline per 1,000 cu. ft. of gas 877

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

## EMPLOYEES

| EMPLOYEES         |         |
|-------------------|---------|
| Frank Thompson    | Driller |
| "Powder" Thompson | Driller |

## FORMATION RECORD

| FROM— | TO—   | TOTAL FEET | FORMATION                                                                                                   |
|-------|-------|------------|-------------------------------------------------------------------------------------------------------------|
| 0'    | 50'   | 50'        | Loose sand and gravel.                                                                                      |
| 50'   | 650'  | 600'       | Fine to very coarse, grey and brown<br><del>dark</del> sandstone with thin beds of<br>brown and grey shale. |
| 600'  | 1485' | 695'       | Interbedded grey and brown, fine,<br>to coarse sandstone and grey and<br>brown shale.                       |
| 1485' | 2100' | 615'       | Grey and black shale                                                                                        |
| 2100' | 2124' | 24'        | Coal                                                                                                        |
| 2124' | 2194' | 70'        | Light grey, salt and pepper sand-<br>stone. (Gas)                                                           |

TOPS :

|                      |        |
|----------------------|--------|
| Kirtland - Fruitland | 1,485' |
| Pictured Cliffs      | 2,124' |

