

KANSAS

WELL COMPLETION REPORT AND  
DRILLER'S LOG

API No. 15

MIAMI - 15-12122323

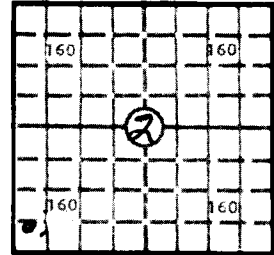
County

Number

S. 2 T. 16 S. R. 21 E

Loc. S<sub>2</sub>, SW <sub>4</sub>

County MIAMI

640 Acres  
N

Locate well correctly

Elev.: Gr. \_\_\_\_\_

DF \_\_\_\_\_ KB \_\_\_\_\_

Operator

HARTS &amp; HUGHES

Address

RR #1 Box 322 EDGERTON, KANSAS

Well No.

1A

Lease Name

MATHES

Footage Location

910

feet from (N) (S) line

165

feet from (E) (W) line

Principal Contractor

MIDLAND CONTRACTORS

Geologist

Spud Date

DEC. 8-80

Date Completed

DEC. 17-80

Total Depth

740'

P.B.T.D.

740'

Directional Deviation

Oil and/or Gas Purchaser

OIL

## CASING RECORD

Report of all strings set—surface, intermediate, production, etc.

| Purpose of string      | Size hole drilled | Size casing set (in O.D.) | Weight lbs./ft. | Setting depth | Type cement | Sacks | Type and percent additives |
|------------------------|-------------------|---------------------------|-----------------|---------------|-------------|-------|----------------------------|
| FRESH WATER PRODUCTION | 6 1/4"            | 5"                        |                 | 200'          | PORTLAND    | 10    | SURFACE                    |
|                        |                   | 2 7/8"                    |                 | 730'          | PORTLAND    | 100   | (5% SET)                   |
|                        |                   |                           |                 |               |             |       |                            |
|                        |                   |                           |                 |               |             |       |                            |

## LINER RECORD

## PERFORATION RECORD

| Top, ft. | Bottom, ft. | Sacks cement | Shots per ft. | Size & type | Depth interval |
|----------|-------------|--------------|---------------|-------------|----------------|
|          |             |              | (2)           | GLASS FW    | 684.5 TO 694.5 |
|          |             |              |               |             |                |
|          |             |              |               |             |                |

## TUBING RECORD

| Size | Setting depth | Packer set at |  |  |  |
|------|---------------|---------------|--|--|--|
|      |               |               |  |  |  |
|      |               |               |  |  |  |

## ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used                                  | Depth interval treated |
|-------------------------------------------------------------------|------------------------|
| CEMENTED TO FRACTURE > 100 SK'S PORTLAND 74 SK'S SET > 50 SK SAND |                        |
|                                                                   |                        |
|                                                                   |                        |

## INITIAL PRODUCTION

|                                                             |  |                                                                |                             |                         |                                |
|-------------------------------------------------------------|--|----------------------------------------------------------------|-----------------------------|-------------------------|--------------------------------|
| Date of first production<br>1/1/81                          |  | Producing method (flowing, pumping, gas lift, etc.)<br>PUMPING |                             |                         |                                |
| RATE OF PRODUCTION<br>PER 24 HOURS                          |  | Oil<br>2 @<br>bbls.                                            | Gas<br>_____<br>MCF         | Water<br>_____<br>bbls. | Gas-oil ratio<br>_____<br>CFPB |
| Disposition of gas (vented, used on lease or sold)<br>_____ |  |                                                                | Producing intervals<br>Full |                         |                                |

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

|                                                                                                                                                                                                                     |                          |            |                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|----------------------------------------------------------------------|
| Operator                                                                                                                                                                                                            | <i>Hart &amp; Hughes</i> |            | DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:             |
| Well No.                                                                                                                                                                                                            | 1A                       | Lease Name | MATHES                                                               |
| S 2 T 16 R 21 E                                                                                                                                                                                                     |                          |            |                                                                      |
| <b>WELL LOG</b>                                                                                                                                                                                                     |                          |            | SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION. |
| Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries. |                          |            |                                                                      |

### DRILLING LOG

Mathes Farm; Miami County, Kansas; Oil well #1  
Hart & Hughes Midland Drilling Co.

| Thickness<br>of Strata | Formation   | Total<br>Depth |
|------------------------|-------------|----------------|
| 20'                    | Soil & Clay | 20'            |
| 15'                    | Lime        | 35'            |
| 8'                     | Shale       | 43'            |
| 9'                     | Lime        | 52'            |
| 4'                     | Shale       | 56'            |
| 1'                     | Lime        | 57'            |
| 6'                     | Shale       | 63'            |
| 11'                    | Lime        | 74'            |
| 1'                     | Shale       | 75'            |
| 2'                     | Lime        | 77'            |
| 40'                    | Shale       | 117'           |
| 15'                    | Lime        | 132'           |
| 83'                    | Shale       | 215'           |
| 17'                    | Lime        | 232'           |
| 1'                     | Shale       | 233'           |
| 2'                     | Lime        | 235'           |
| 30'                    | Shale       | 265'           |
| 5'                     | Lime        | 270'           |
| 40'                    | Shale       | 310'           |
| 1'                     | Lime        | 311'           |
| 18'                    | Shale       | 329'           |
| 54'                    | Lime        | 383'           |
| 4'                     | Shale       | 387'           |
| 6'                     | Lime        | 393'           |
| 2'                     | Shale       | 395'           |
| 5'                     | Lime        | 400'           |
| 5'                     | Shale       | 405'           |
| 8'                     | Lime        | 413'           |
| 149'                   | Shale       | 562'           |
| 8'                     | Lime        | 570'           |
| 32'                    | Shale       | 602'           |
| 11'                    | Lime        | 613'           |
| 11'                    | Shale       | 624'           |
| 5'                     | Lime        | 629'           |
| 6'                     | Shale       | 635'           |
| 16'                    | Lime        | 651'           |
| 15'                    | Shale       | 666'           |
| 1'                     | Lime        | 667'           |
| 2'                     | Shale       | 669'           |
| 6'                     | Lime        | 675'           |
| 17'                    | Sand        | 692'           |
| 48'                    | Shale       | 740'           |

| NAME                                                                                                                           | DEPTH |
|--------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                                                                |       |
| LL RECORD.                                                                                                                     |       |
| <div style="display: flex; justify-content: space-between;"> <div> <i>Hart</i><br/> Signature </div> <div> Title </div> </div> |       |
| <div style="display: flex; justify-content: space-between;"> <div> -81<br/> Date </div> <div></div> </div>                     |       |