

24-31-11W

KANSAS GEOLOGICAL SOCIETY  
KANSAS WELL LOG BUREAU - KANSAS WELL SAMPLE BUREAU  
KANSAS GEOLOGICAL SOCIETY BUILDING  
508 EAST MURDOCK - WICHITA, KANSAS

COMPANY STIOUX PETROLEUM

SEC. 24 T. 31 N. 11W  
LOC. APP C SW SE

FARM Shepherd

NO. 2

TOTAL DEPTH 4506

COMM. 12-16-65

COMP. 12-30-65

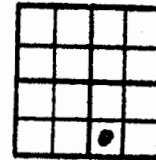
SHOT OR TREATED

CONTRACTOR Hellar Drlg.

ISSUED 11-26-66

COUNTY Barber

KANSAS



CASING

|    |          |                  |
|----|----------|------------------|
| 20 | 10       |                  |
| 15 | 5/8"     | @ 226' w/200 SX  |
| 12 | 6        |                  |
| 13 | * 4 1/2" | @ 4503' w/100 SX |

ELEVATION 1717' KB

PRODUCTION FMP 15 BOPD, NW  
(Miss 4498-4506)

FIGURES INDICATE BOTTOM OF FORMATIONS

|           |                        |                       |
|-----------|------------------------|-----------------------|
| 0-209     | Sand & Clay            |                       |
| 209-226   | Shale                  |                       |
| 226-300   | Sand & Shale           |                       |
| 300-1028  | Shale & Shells         |                       |
| 1028-1063 | Shale                  |                       |
| 1063-1525 | Salt Section-Anhydrite | TOPS: SAMPLE          |
| 1525-2389 | Lime & Shale           |                       |
| 2389-3082 | Shale & Lime           | Elgin Zone 3521       |
| 3082-3363 | Lime & Shale           | Heebner 3697          |
| 3363-3530 | Shale & Lime           | Douglas 3770          |
| 3530-3740 | Shale                  | " Sand 3814           |
| 3740-3903 | Shale & Lime           | Lansing 3890          |
| 3903-3913 | Lime                   | Base Kansas City 4360 |
| 3913-3948 | Lime (K.C.)            | Mississippi 4496      |
| 3948-4067 | K. C. Lime             |                       |
| 4067-4091 | Lime                   |                       |
| 4091-4161 | L. K.C.                |                       |
| 4161-4356 | K. C. Lime             |                       |
| 4356-4506 | Lime                   |                       |
| 4506      | Rotary Total Depth     |                       |

STATE OF KANSAS )  
 ) SS  
COUNTY OF SEDGWICK )

I, D. L. Hellar, do hereby certify that the above and foregoing is a true and correct copy of the log of the #2 Shepherd, located in approx. SW SE Sec. 24-31S-11W, Barber County, Kansas, as reflected by the files of the Hellar Drilling Company, Inc.

HELLAR DRILLING COMPANY, INC.

By D. L. Hellar  
President D. L. Hellar