

21-2-22W

State Geological Survey  
WICHITA BRANCH

CONTRACTORS WELL LOG

OPERATOR: X O Exploration  
 CONTRACTOR: Abercrombie Drilling, Inc.  
 WELL NAME: WHITNEY #1  
 LOCATION: C SW SW, Sec. 21-2S-22W  
 Norton County, Kansas  
 SPUD DATE: August 13, 1981  
 COMPLETION DATE: August 20, 1981

|      |      |                    |
|------|------|--------------------|
| 0    | 1770 | Sand & Shale       |
| 1770 | 1819 | Shale              |
| 1819 | 1850 | Anhydrite          |
| 1850 | 2533 | Shale              |
| 2533 | 2710 | Shale & Lime       |
| 2710 | 3100 | Shale              |
| 3100 | 3695 | Lime               |
|      | 3695 | Rotary Total Depth |

Spud hole @ 7:00 p.m., 8/13/81. Cut 225' of a 12 1/4" hole. Ran 7 jts. of new 24# casing (tally \$216.42) set @ 223.42' with 165 sx. common 3% c.c., 2% gel. Cement did circulate. Plug was down @ 1:00 a.m., 8/14/81. Will drill plug @ 9:00 a.m., 8/14/81.

3696' TD. Set 1st plug @ 1490' with 50 sx. Set 2nd plug @ 310' with 50 sx. Set 3rd plug @ 40' Solid Bridge with 10 sx. 10 sx. in Rathole. Plug was down 8/20/81.

SAMPLE TOPS:

Anhydrite 1819'  
 B/Anhydrite 1850'

STATE OF KANSAS )  
 ) SS  
 COUNTY OF SEDGWICK )

Jack L. Partridge, Vice President of Abercrombie Drilling, Inc. does hereby certify that the above and foregoing is a true and correct copy of the log of the WHITNEY #1, C SW SW, Sec. 21-2S-22W, Norton County, Kansas.

ABERCROMBIE DRILLING, INC.

BY: *Jack L. Partridge*