

OPERATOR: American Petrofina Company of Texas
4613 Jacksboro Highway
Wichita Falls, Texas 76302

LEASE: Shaffer No. 10 SWD
C W/2 SW SW Sec. 27-13S-14W
Russell County, Kansas

CONTRACTOR: Slawson Drilling Company, Inc.
408 One Twenty Building
Wichita, Kansas 67202

COMMENCED: 3-25-77

COMPLETED: 4-5-77

RTD: 3600'

CASING: 277.91' of used 8-5/8 set at 286' with 180 sx cement

OIL STRING: Used 5½" set at 3558' with 500 sx cement.

0' to 60' Shale, Postrock
60' to 75' Shale Postrock
75-292' Shale (292' 12¼" Surface Hole)
292' to 349' Shale
349' to 410' Sand & Pyrite
410' to 690' Shale & Red Bed
690' to 1278' Shale (881- to 913' Anhydrite)
1278' to 1668' Shale
1668' to 1950' Shale & Lime & Shale
1950' to 2141' Lime and shale
2141' to 2291' Shale & Lime
2291' to 2446' Shale & Lime
2446' to 2721' Lime & Shale
2721' to 2843' Lime
2843' to 3035' Lime & Shale
3035' to 3050' Lime
3050' to 3277' Lime
3277' to 3333' Arbuckle
3333' to 3530' Lime
3530' to 3600' Granite Wash
3600' RTD