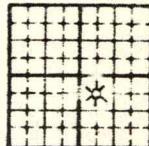


12-349W REPL. COMP. SEC. 18-22S-41W
 STATE Kans. MAP NO. COUNTY Hamilton LOC C NW SE
 OPER. Livingston Oil Co., Tulsa, Okla. FT/FR LINE
 WELL #1821 FARM 1821 FT/FR LINE
 Bradshaw ELEV. 3599 GR. 3604 DF 3607 KB
 WAKEFIELD DRLG. TOOLS GEOL.
 CO. INT.
 F.R. 9/19/63 SPUD 9/29/63 COMP. 12/31/63
 TD 2697 FAM. Win PBTD.
 8-5/8" @ 116 w/150 sx. 4 1/2" @ 2697 w/100 sx.
 Win 2666-72 5 500A & Frac
 72-20 Ga. 1,630,000 cfspd



Data Inc.

KB Log Tops & Datums:
 Winf 2658 + 949
 LTD Not available RTD 2697 + 910
 MICT, GRN Log, Pf Winf 2/2666-67 & 3/2670-72, Treat w/500 (7 1/2%)
 Acid + Frac (7500# sd x 240 B gelled A x 300# walnut hulls)
 Rec 1d, 72-20 Ga 1,630,000 cfspd, thru 2" tbg, SIP 465#,
 Win 2766-72, SI Gas Well
 COMPLETE
 REPLACEMENT COMPLETION 1/21/64
 correct perfs