ROBERTSON GEOLOGICAL RESEARCH

Offset Pulling & Tie WINKLER No. 1 NE/4 NE/4 Sec. 32 T.12S. R.5E. Jackson County, Oklahoma

Elevation: 1156' GL

Surface Casing: 8 5/8" @ 1,000'

Production Casing: 4½" @ 4,152'

Total Depth: 4,152'

Completed: 3-15-1956

Contractor: Cooper Drilling Co.

Drilling Time Kept From: 2,000'

Samples Saved From: 2,000' to T.D.

Drilling Time Recorded By: Geolograph

Electric Log Tops: Kansas City 3,100' (-1944) Marmaton 3,320' (-2164) Cherokee 3,550' (-2394) Atoka 3,850' (-2694) Morrow Lime 4,000' (-2844) Morrow Sand 4,050' (-2894) Chester 4,100' (-2944)

Remarks: Oil Show 3,320'-3,330' Oil Show 3,550'-3,560' Oil Show 3,850'-3,870' Oil Show 4,050'-4,060' Oil Show 4,100'-4,110' Oil Show 4,120'-4,130' Oil Show 4,140'-4,150' Oil Show 4,150'-4,152' Oil Show 4,152'-4,160' Oil Show 4,160'-4,170' Oil Show 4,170'-4,180' Oil Show 4,180'-4,190' Oil Show 4,190'-4,200' Oil Show 4,200'-4,210' Oil Show 4,210'-4,220' Oil Show 4,220'-4,230' Oil Show 4,230'-4,240' Oil Show 4,240'-4,250' Oil Show 4,250'-4,260' Oil Show 4,260'-4,270' Oil Show 4,270'-4,280' Oil Show 4,280'-4,290' Oil Show