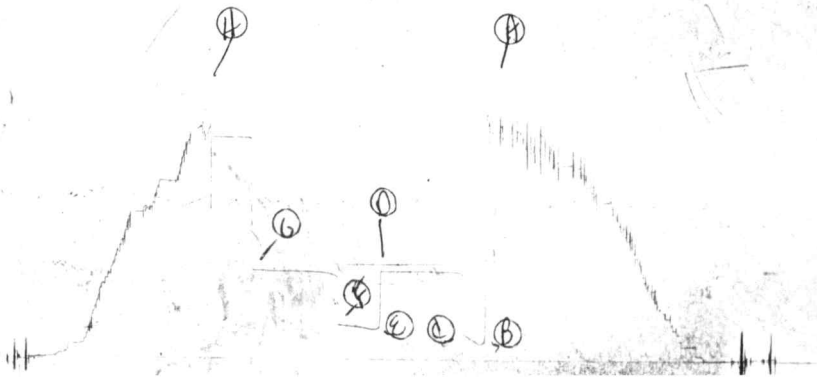


4332 DST #1

TKA # 9487

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Company Raymond Oil Company, Inc. Lease & Well No. Willinger #3
 Elevation 1812 Kelly Bushing Indian Cave Formation Effective Pay - Ft. Ticket No. 9487
 Date 3/11/81 Sec. 28 Twp. 28S Range 11W County Pratt State Kansas
 Test Approved by Timothy D. Hellman Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 2589 ft. to 2640 ft. Total Depth 2640 ft.
 Packer Depth 2584 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2589 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2592 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 2595 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #22 Drill Collar Length 125 I. D. 2 1/4 in.
 Mud Type premix-starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 10.8 cc. Drill Pipe Length 2444 I. D. 3.8 in.
 Chlorides 38,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 51 ft. Size 5 1/2 OD
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow; Gas to surface in three minutes. See attached sheet for gas measurements.

Recovered 145 ft. of gas cut drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Read outside chart

Time Set Packer(s) 11:05 A.M. Time Started Off Bottom 1:50 A.M. Maximum Temperature 100°
=P.M. P.M.
 Initial Hydrostatic Pressure (A) 1332 P.S.I.
 Initial Flow Period Minutes 15 (B) 100 P.S.I. to (C) 141 P.S.I.
 Initial Closed In Period Minutes 60 (D) 488 P.S.I.
 Final Flow Period Minutes 30 (E) 177 P.S.I. to (F) 193 P.S.I.
 Final Closed In Period Minutes 63 (G) 495 P.S.I.
 Final Hydrostatic Pressure (H) 1253 P.S.I.

