



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: 1-20LTTRSUNT DST

TIME ON: 0755
 TIME OFF: 1615

Company L.D. DRILLING, INC. Lease & Well No. #1-20 LUTTERS UNIT
 Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
 Elevation 2340 KB Formation MISSISSIPPI Effective Pay _____ Ft. Ticket No. M811
 Date 12/1/2015 Sec. 20 Twp. 15 S Range 23 W County TREGO State KANSAS
 Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4269 ft. to 4307 ft. Total Depth 4307 ft.
 Packer Depth 4264 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 4269 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4251 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4271 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 7.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,700 P.P.M. Drill Pipe Length 4237 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 38 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB, BUILT TO 6" (1/2" BB)
 2nd Open: WSB, BUILT TO 9" (WEAK BB)

Recovered 110 ft. of GIP GRAVITY: 31.2 @ 60°
 Recovered 115 ft. of CO 100% OIL
 Recovered 30 ft. of 100 % EMULSIFIED OIL AND MUD
 Recovered 145 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>4% GAS, 59% EMULSIFIED OIL, 37% MUD</u>	Total

Time Set Packer(s) 10:45 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 1:45 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 119°F

Initial Hydrostatic Pressure..... (A) 2039 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 53 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1301 P.S.I.
 Final Flow Period..... Minutes 45 (E) 41 P.S.I. to (F) 71 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1300 P.S.I.
 Final Hydrostatic Pressure..... (H) 2001 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

L.D. DRILLING, INC.
DST#1 4269-4307 MISSISSIPPI
Start Test Date: 2015/12/01
Final Test Date: 2015/12/01

#1-20 LUTTERS UNIT
Formation: DST#1 4269-4307 MISSISSIPPI
Pool: WILDCAT
Job Number: M811

#1-20 LUTTERS UNIT

