



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: 1-20LTTRSUNT DST2

TIME ON: 2155 (21/1)
 TIME OFF: 0630 (12/2)

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. M812
 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. 2 Interval Tested from 4304 ft. to 4314 ft. Total Depth 4314 ft.
 Packer Depth 4299 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 4304 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4286 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4306 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 65 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 7.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 4,300 P.P.M. Drill Pipe Length 4272 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 10 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: SSB, BOB 15 MIN (1" BB)
 2nd Open: WSB, BOB 19 MIN (1" BB)

Recovered 173 ft. of GIP GRAVITY: 33.2 @ 60°
 Recovered 490 ft. of GO 1% GAS, 99% OIL
 Recovered 30 ft. of GOCWM 2% GAS, 20% EMULSIFIED OIL, 32% WTR, 46% MUD
 Recovered 520 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>CHLOR: 10,000 PPM</u>	Other Charges
Remarks: _____	Insurance
PH: <u>7.0</u>	
TOOL SAMPLE: <u>90% OIL, 10% MUD, TR OF WTR</u>	Total

Time Set Packer(s) 12:30 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 3:30 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 129°F

Initial Hydrostatic Pressure..... (A) 2066 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 20 P.S.I. to (C) 97 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1314 P.S.I.
 Final Flow Period..... Minutes 45 (E) 100 P.S.I. to (F) 210 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1312 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.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	L.D. DRILLING, INC.	Job Number	M812
Well Name	#1-20 LUTTERS UNIT	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4304-4314 MISSISSIPPI	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.20-15S-23W TREGO CO.KS.	Report Date	2015/12/02
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 4304-4314 MISSISSIPPI		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/12/01	Start Test Time	21:55:00
Final Test Date	2015/12/02	Final Test Time	06:30:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
173' GIP
490' GO 1% GAS, 99% OIL
30' GOCWM 2% GAS, 20% EMULSIFIED OIL, 32% WTR, 46% MUD
520' TOTAL FLUID

GRAVITY: 33.2 @ 60 DEG

CHLOR: 10,000 PPM
PH:7.0

TOOL SAMPLE: 90% OIL, 10% MUD, TR OF WTR

L.D. DRILLING, INC.
DST#2 4304-4314 MISSISSIPPI
Start Test Date: 2015/12/01
Final Test Date: 2015/12/02

#1-20 LUTTERS UNIT
Formation: DST#2 4304-4314 MISSISSIPPI
Pool: WILDCAT
Job Number: M812

#1-20 LUTTERS UNIT

