



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 4-31DRRLDST4

TIME ON: 2020 (11/4)
TIME OFF: 0530 (11/5)

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
Elevation 2645 KB Formation _____ L/KC H-K Effective Pay _____ Ft. Ticket No. M803
Date 11/4/2015 Sec. 31 Twp. _____ 19 S Range _____ 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 3850 ft. to 3955 ft. Total Depth 3955 ft.
Packer Depth 3845 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3850 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3832 ft. Recorder Number 3852 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3726 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 3818 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 105 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (95' DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SSB, BOB 10 MIN (NO BB)
2nd Open: WSB, BOB 22 MIN (NO BB)

Recovered 110 ft. of VSOSGWM 2% GAS, 30% WTR, 68% MUD W/ A VERY THIN SCUM OF OIL
Recovered ~1 ft. of G0 25% GAS, 74% OIL GRAVITY: 35.8 @ 60°
Recovered 444 ft. of SOSGMW 2% GAS, 1% OIL, 79% WTR, 18% MUD
Recovered 555 ft. of TOTAL FLUID

Recovered _____ ft. of <u>RW: .28 @ 40 DEG</u>	Price Job
Recovered _____ ft. of <u>PH: 7.0</u>	Other Charges
Remarks: <u>CHLOR: 42,000 PPM</u>	Insurance
<u>TOOL SAMPLE: 1% GAS, 2% OIL, 77% WTR, 20% MUD</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 131°F

Initial Hydrostatic Pressure..... (A) 1824 P.S.I.
Initial Flow Period..... Minutes 30 (B) 22 P.S.I. to (C) 138 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 538 P.S.I.
Final Flow Period..... Minutes 45 (E) 142 P.S.I. to (F) 238 P.S.I.
Final Closed In Period..... Minutes 60 (G) 558 P.S.I.
Final Hydrostatic Pressure..... (H) 1799 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	#4-31 DARREL	Job Number	M803
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#4 3850-3955 L/KC H-K	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/05
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 3850-3955 L/KC H-K		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/04	Start Test Time	17:25:00
Final Test Date	2015/11/05	Final Test Time	05:30:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

110' VSOSGWM 2% GAS, 30% WTR, 68% MUD W/ A VERY THIN SCUM OF OIL
~1' G0 25% GAS, 74% OIL
444' SOSGMW 2% GAS, 1% OIL, 79% WTR, 18% MUD
555' TOTAL FLUID

GRAVITY: 35.8 @ 60 DEG

CHLOR: 42,000 PPM
PH:7.0
RW: .28 @ 40 DEG

TOOL SAMPLE: 1% GAS, 2% OIL, 77% WTR, 20% MUD

#4-31 DARREL
DST#4 3850-3955 L/KC H-K
Start Test Date: 2015/11/04
Final Test Date: 2015/11/05

#4-31 DARREL
Formation: DST#4 3850-3955 L/KC H-K
Pool: WILDCAT
Job Number: M803

#4-31 DARREL

