



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 4-31DRRLDST6

TIME ON: 2155 (11/6)
TIME OFF: 0610 (11/7)

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 FORT SCOTT/JOHNSON Effective Pay _____ Ft. Ticket No. M805
Date 11/6/2015 Sec. 31 Twp. _____ 19 S Range _____ 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 6 Interval Tested from 4178 ft. to 4270 ft. Total Depth 4270 ft.
Packer Depth 4173 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4178 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4160 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4180 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 52 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9/4 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,500 P.P.M. Drill Pipe Length 4146 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 92 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 8 MIN (NO BB)
2nd Open: SSB, BOB 12 MIN (NO BB)

Recovered 356 ft. of GIP
Recovered 152 ft. of GHOCM 4% GAS, 51% EMULSIFIED OIL & MUD, 45% MUD
Recovered 191 ft. of GHOCWM 12% GAS, 74% EMULSIFIED OIL & MUD, 12% WTR, 2% MUD
Recovered 343 ft. of TOTAL FLUID

Recovered _____ ft. of <u>RW: . @ DEG</u>	Price Job
Recovered _____ ft. of <u>PH:</u>	Other Charges
Remarks: <u>CHLOR: PPM</u>	Insurance
<u>TOOL SAMPLE: 10% GAS, 12% FREE OIL, 41% EMULSIFIED OIL & MUD, 13% WTR, 24% 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 129°F

Initial Hydrostatic Pressure..... (A) 2143 P.S.I.
Initial Flow Period..... Minutes 30 (B) 61 P.S.I. to (C) 108 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 906 P.S.I.
Final Flow Period..... Minutes 45 (E) 104 P.S.I. to (F) 165 P.S.I.
Final Closed In Period..... Minutes 60 (G) 876 P.S.I.
Final Hydrostatic Pressure..... (H) 2011 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	M805
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#6 4178-44270 FORT SCOTT/JOHNSON	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/07
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#6 4178-44270 FORT SCOTT/JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/06	Start Test Time	21:55:00
Final Test Date	2015/11/07	Final Test Time	06:10:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
356' GIP
152' GHOCM 4% GAS, 51% EMULSIFIED OIL & MUD, 45% MUD
191' GHOCWM 12% GAS, 74% EMULSIFIED OIL & MUD, 12% WTR, 2% MUD
343' TOTAL FLUID

CHLOR: 15,000 PPM
PH:7.0

TOOL SAMPLE: 10% GAS, 12% FREE OIL, 41% EMULSIFIED OIL & MUD, 13% WTR, 24% MUD

#4-31 DARREL
DST#6 4178-44270 FORT SCOTT/JOHNSON
Start Test Date: 2015/11/06
Final Test Date: 2015/11/07

#4-31 DARREL
Formation: DST#6 4178-44270 FORT SCOTT/JOHNSON
Pool: WILDCAT
Job Number: M805

#4-31 DARREL

