

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Shumway AA #3
Company Name	LD Drilling Inc
Formation	Arbuckle 3654'-3670'
Test Type	Bottom-Hole DST w/Jars, Safety Joint, Shale Packer
Surface Location	Sec 27-21s-12w-Stafford Co.-KS
KB Elevation (SL)	1843.000
Gauge Name	Inside 5951
Start Test Date	2014/12/11
Start Test Time	14:08:00
Final Test Date	2014/12/11
Final Test Time	19:08:00
Job Number	F360
Contact	LD Davis
Site Contact	Kurt Talbott

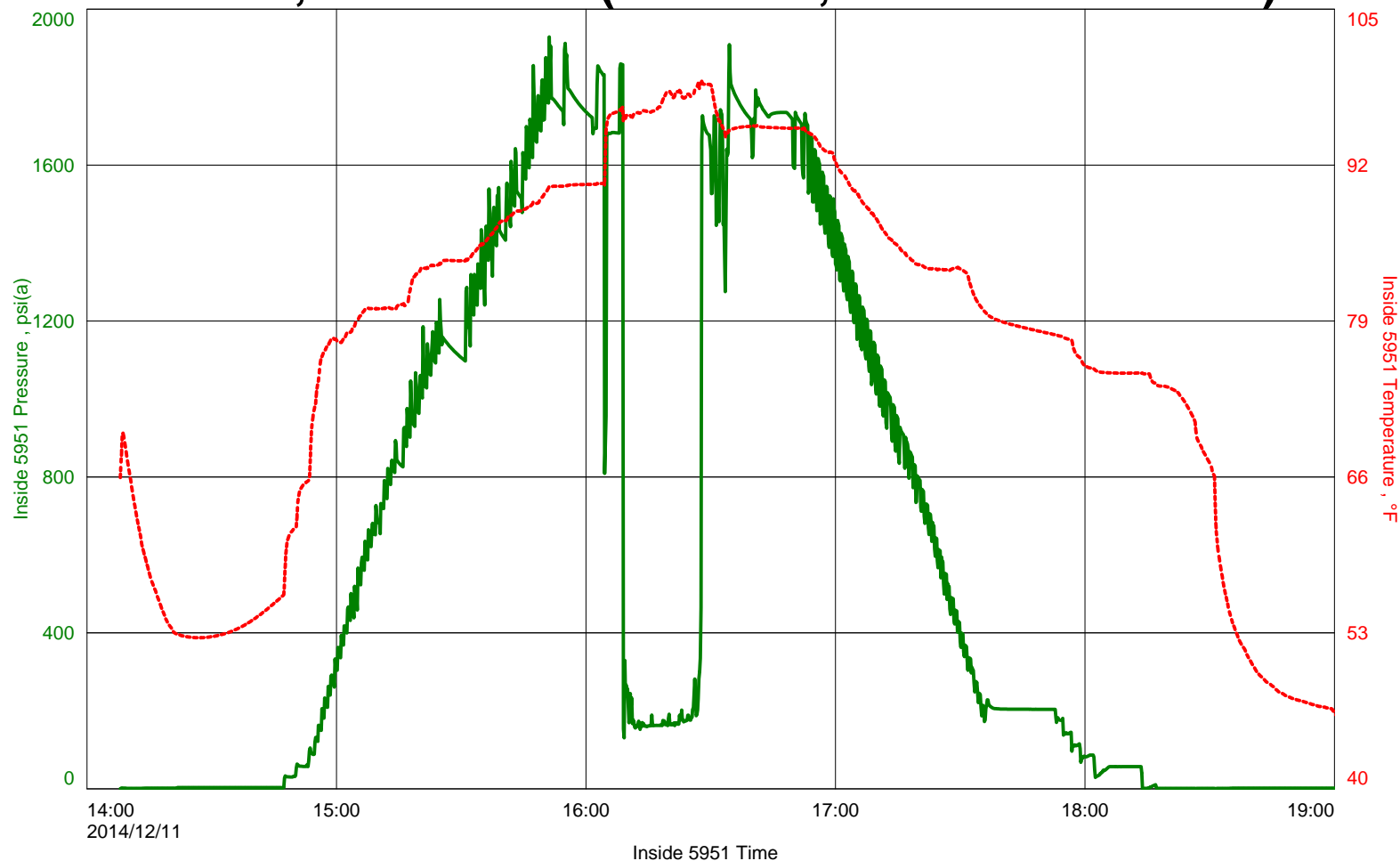
TEST RESULTS

Opened tool and lost some mud, pulled tool off bottom, then reset tool with 50,000 lb. Packers held for 18 minutes before losing the packer seat. Pulled 35,000 lb over string weight to get loose. Tripped the jars once.

MIS-RUN (PACKER FAILURE)

Recovered 370' of drilling mud.

DST #7, ARBUCKLE (MIS-RUN, PACKER FAILURE)





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
 DRILL-STEM TEST TICKET
 FILE: SHUM3DST7

ON LOCATION: 12:00
 START RECORDERS: 14:08
 STOP RECORDERS: 19:08

Company LD DRILLING INC. Lease & Well No. SHUMWAY AA #3
 Contractor PETROMARK DRUG. LLC #2 Charge to LD DRILLING INC.
 Elevation 1843' KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F 360
 Date 12-11-14 Sec. 27 Twp. 21s Range 12w County STAFFORD State KANSAS
 Test Approved By KURT TALBOTT Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 7 Interval Tested from 3654 ft. to 3670 ft. Total Depth 3670 ft.
 Packer Depth 3649 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3654 SHALE PKR ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3632 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3655 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 77 Drill Collar Length 123 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 13.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 12,000 P.P.M. Drill Pipe Length 3498 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J, J, Sh Pr Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 16 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 x 14 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: OPENED TOOL AND LOST SOME MUD, PULLED TOOL OFF BOTTOM,
 2nd Open: THEN RE-SET TOOL W/50,000 LB, PACKERS HELD FOR 18 MIN.

Recovered _____ ft. of BEFORE LOSING THE PACKER SEAT. PULLED 35,000 LB
 Recovered _____ ft. of OVER STRING WT TO GET LOOSE, TRIPPED THE JARS
 Recovered _____ ft. of ONCE.
 Recovered _____ ft. of _____
 Recovered _____ ft. of MIS-RUN (PKKER FAILURE)
 Recovered 370 ft. of DRUG MUD

Remarks: _____
 Price Job MIS-RUN
RUINED 1 REG PACKER
 Other Charges _____
J, J, Sh Pr
96 MRT (PRATT)
 Total _____

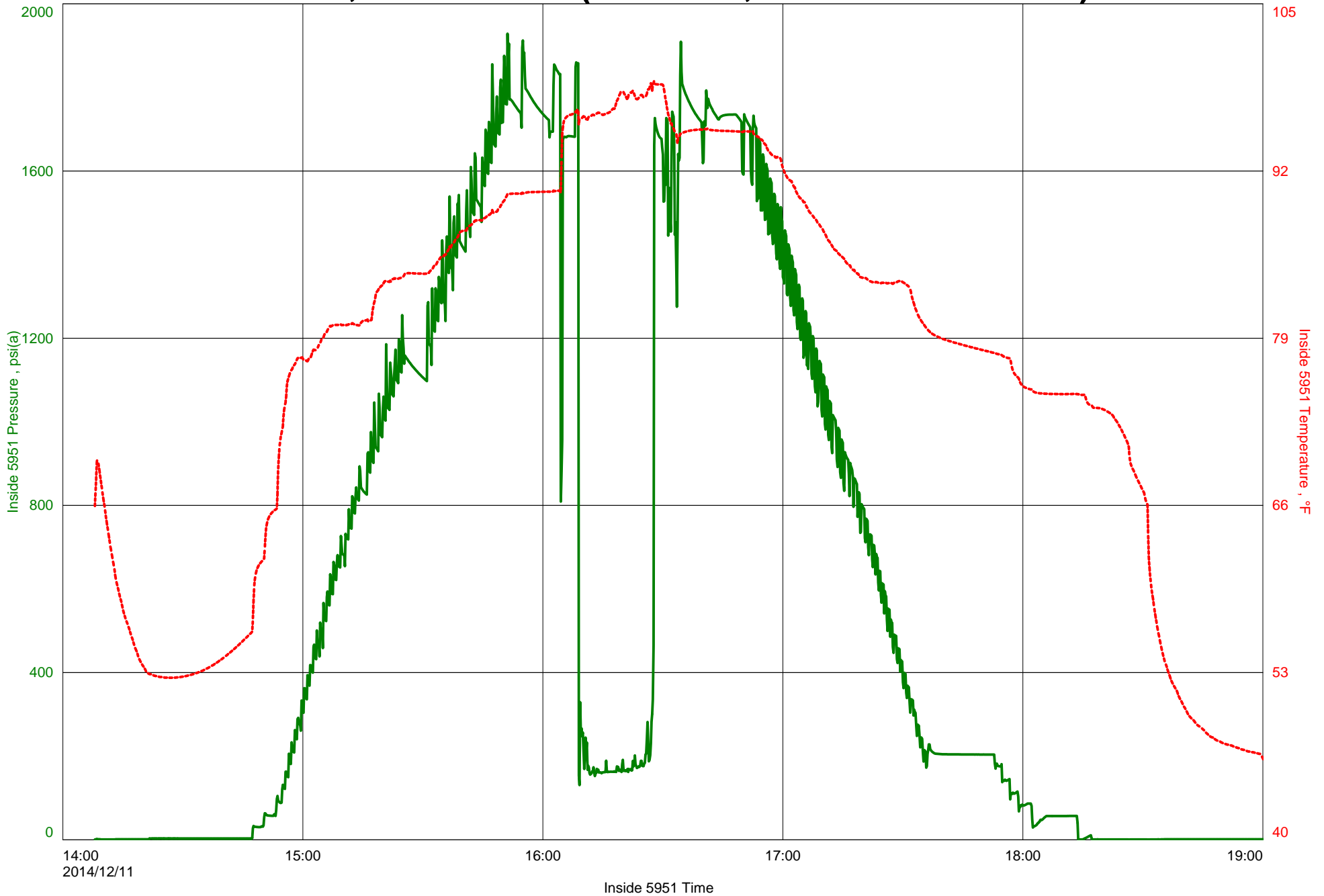
Time Set Packer(s) 4:09 AM PM Time Started Off Bottom 4:27 AM PM Maximum Temperature _____

Initial Hydrostatic Pressure..... (A) _____ P.S.I.
 Initial Flow Period..... Minutes 18 (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
 Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
 Final Hydrostatic Pressure..... (H) _____ 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.

THANKS!
 Jake Fahrenbruch

DST #7, ARBUCKLE (MIS-RUN, PACKER FAILURE)





DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: SHUM3DST7

TIME ON: 14:08
 TIME OFF: 19:03

Company LD Drilling Inc. Lease & Well No. Shumway AA #3
 Contractor Petromark Drilling LLC Rig # 2 Charge to LD Drilling Inc.
 Elevation 1843' KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. F360
 Date 12-11-14 Sec. 27 Twp. 21s S Range 12w W County Stafford State KANSAS
 Test Approved By Kurt Talbott Diamond Representative Jake Fahrenbruch

Formation Test No. 7 Interval Tested from 3654 ft. to 3670 ft. Total Depth 3670 ft.
 Packer Depth 3649 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3654 SH ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3632 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3655 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 77 Drill Collar Length 123 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 13.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 12,000 P.P.M. Drill Pipe Length 3,498 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 16 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: Opened tool and lost some mud, pulled tool off bottom.
 2nd Open: Re-set tool with 50,000 lb, packers held for 18 minutes before losing the packer seat

Recovered _____ ft. of Pulled 35,000 lb over string weight to get loose.
 Recovered _____ ft. of Tripped the jars once.
 Recovered _____ ft. of _____
 Recovered _____ ft. of MIS-RUN (PACKER FAILURE)

Recovered _____ ft. of _____	Price Job
Recovered <u>370</u> ft. of <u>Drilling mud</u>	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 4:09 PM A.M. P.M. Time Started Off Bottom 4:27 PM A.M. P.M. Maximum Temperature _____

Initial Hydrostatic Pressure..... (A) _____ P.S.I.
 Initial Flow Period..... Minutes 18 (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
 Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
 Final Hydrostatic Pressure..... (H) _____ 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.