

# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

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



## TEST INFORMATION

<b>Well Name</b>	Rugan Farms #2-24
<b>Formation</b>	Lansing "E-G" 3304'-3350'
<b>Surface Location</b>	Sec 24-20s-14w-Barton Co-KS
<b>Field</b>	
<b>Company Name</b>	LD Drilling
<b>Well Operator</b>	LD Drilling
<b>Well Type</b>	Vertical
<b>Test Type</b>	Conv. Bottom-Hole
<b>Test Purpose (AEUB)</b>	Initial Test
<b>Gauge Name</b>	Inside 5951
<b>Start Test Date</b>	2014/08/13
<b>Start Test Time</b>	23:07:00
<b>Final Test Date</b>	2014/08/14
<b>Final Test Time</b>	06:40:00
<b>Job Number</b>	F297
<b>Contact</b>	LD Davis
<b>Site Contact</b>	Kurt Talbott
<b>Qualified By</b>	Kurt Talbott

## TEST RESULTS

Initial flow started with a surface blow, increasing to a 6" blow.  
 Final flow started with a surface blow, increasing to a 6.5" blow.

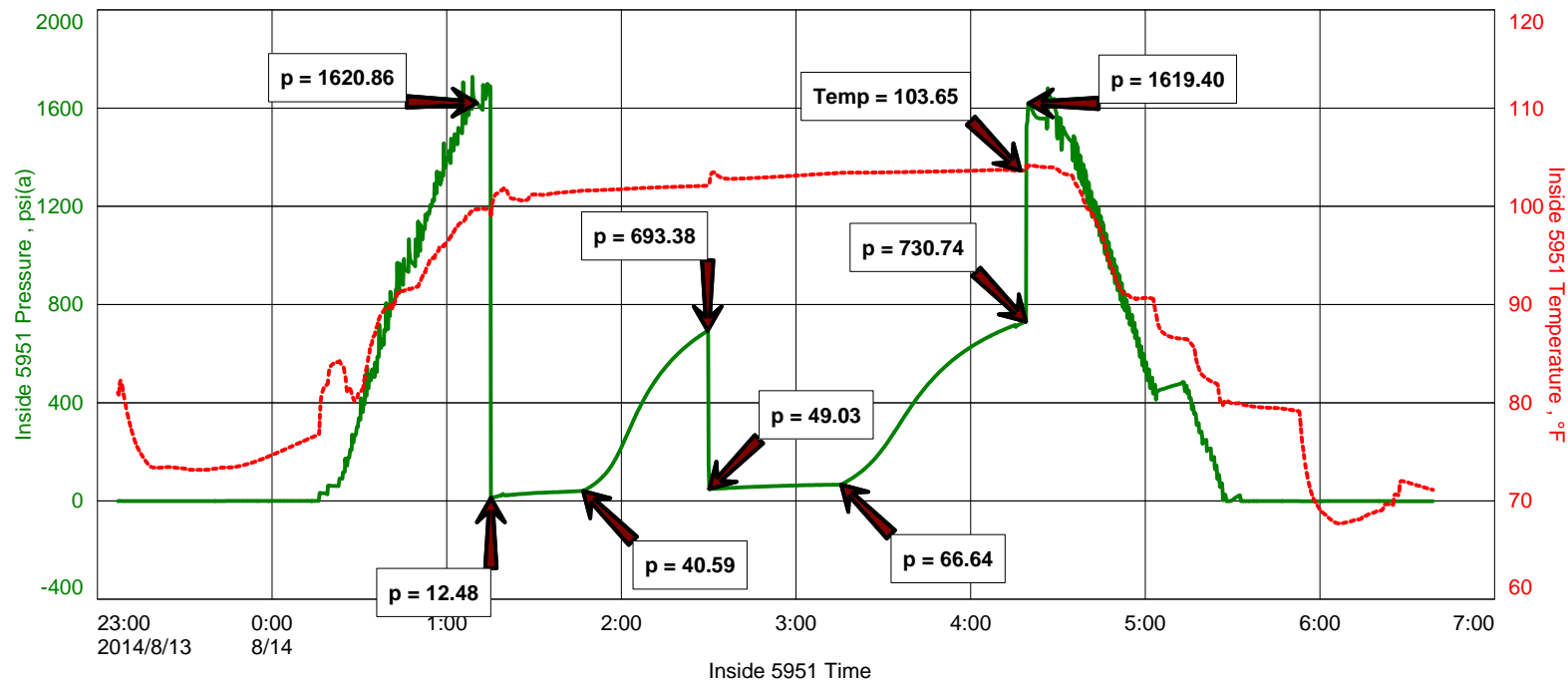
### Recovered 125' TOTAL FLUID

- 80' OWC 10%o, 10%w, 80%r
- 45' OSMW 2%o, 50%w, 48%r
- Chlorides: 49,000 PPM
- RW: .17 ohm @ 58 Deg F
- PH: 7.0

LD Drilling  
 Start Test Date: 2014/08/13  
 Final Test Date: 2014/08/14

Rugan Farms #2-24  
 Formation: Lansing "E-G" 3304'-3350'  
 Job Number: F297

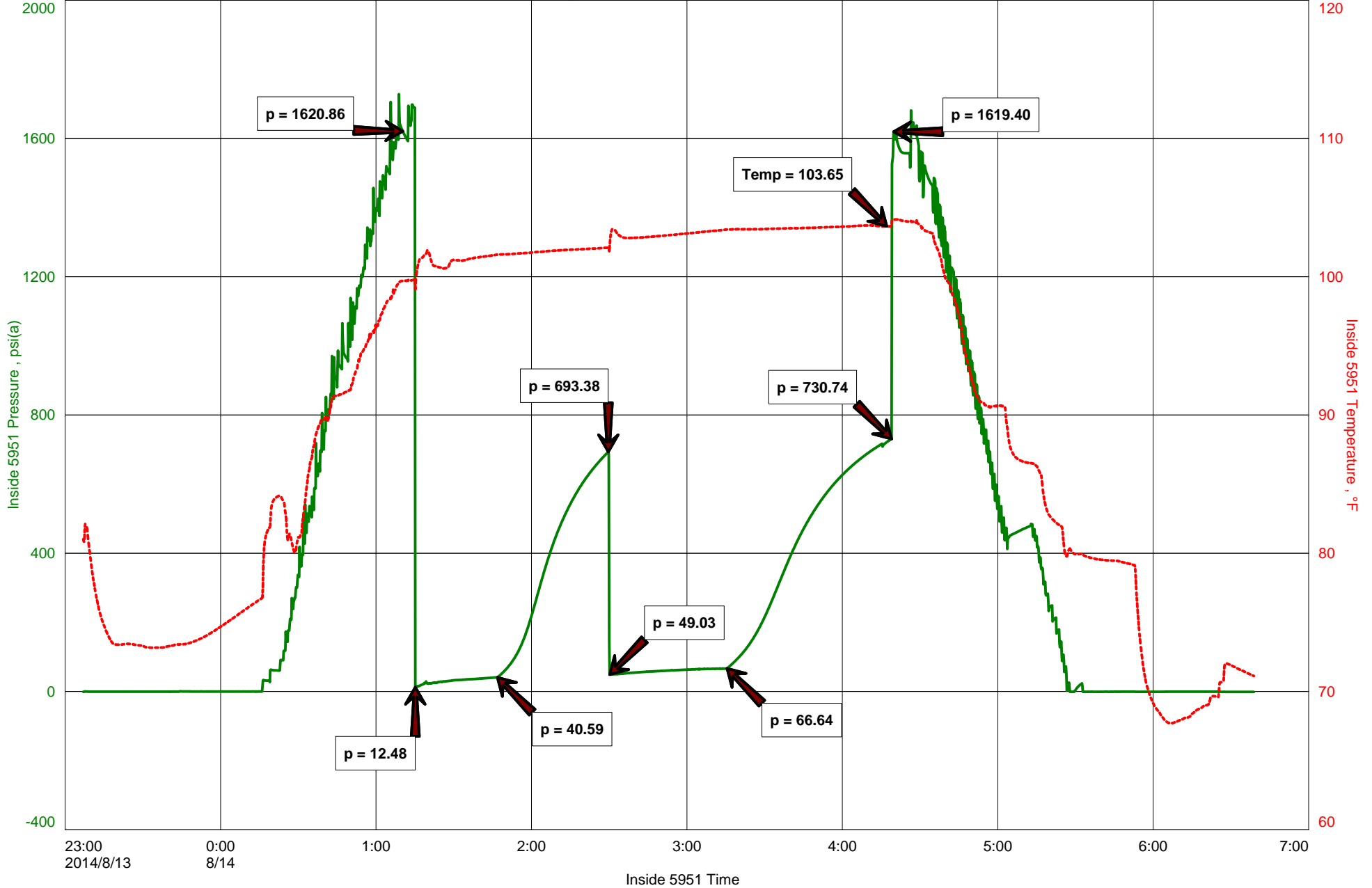
## DST #2



LD Drilling  
Start Test Date: 2014/08/13  
Final Test Date: 2014/08/14

Rugan Farms #2-24  
Formation: Lansing "E-G" 3304'-3350'  
Job Number: F297

# Rugan Farms #2-24





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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (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.



DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313

DRILL-STEM TEST TICKET  
FILE: RUGAN FARMS #2-24

ON LOCATION: 11:05 8-13  
START RECORDERS: 11:07 PM 8-13  
STOP RECORDERS: 6:40 AM 8-14

Company LD DRILLING Lease & Well No. RUGAN FARMS #2-24  
Contractor PETROMARK #2 Charge to LD DRILLING  
Elevation 1892' KB Formation LANSING "E-G" Effective Pay \_\_\_\_\_ Ft. Ticket No. F2917  
Date 8-14-14 Sec. 24 Twp. 20S Range 14W County BARTON State KANSAS  
Test Approved By KURT TALBOT Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3304 ft. to 3350 ft. Total Depth 3350 ft.  
Packer Depth 3299 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3304 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3290 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3310 ft. Recorder Number 5584 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEMICAL Viscosity 53 Drill Collar Length 125 ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 10.4 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 10000 P.P.M. Drill Pipe Length 3154 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 46 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: SURFACE BLOW, INCREASED TO 6"  
2nd Open: SURFACE BLOW, INCREASED TO 6 1/2"

Recovered 80 ft. of OMCW 10"o, 10"w, 80"m  
Recovered 45 ft. of OSMW 2"o, 50"w, 48"m  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of TOTAL FLUID: 125'  
Recovered \_\_\_\_\_ ft. of TOOL SAMPLE: OMCW  
Recovered \_\_\_\_\_ ft. of 5"o, 20"m, 75"w  
Remarks: BW: .17-2 @ 58°F  
PH: 7.0  
CAL: 49,000 PPM  
Price Job \_\_\_\_\_  
Other Charges \_\_\_\_\_  
Total \_\_\_\_\_

Time Set Packer(s) 1:15 <sup>AM</sup> <sub>PM</sub> Time Started Off Bottom 4:15 <sup>AM</sup> <sub>PM</sub> Maximum Temperature 104°F

Initial Hydrostatic Pressure..... (A) 1620 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 41 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 693 P.S.I.  
Final Flow Period..... Minutes 45 (E) 49 P.S.I. to (F) 67 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 731 P.S.I. THANKS!  
Final Hydrostatic Pressure..... (H) 1619 P.S.I. Kurt Talbot

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