

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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TEST INFORMATION

Well Name	Rugan Farms #2-24
Formation	Arbuckle 3525'-3545'
Surface Location	Sec 24-20s-14w-Bsrton Co-KS
Field	
Company Name	LD Drilling
Well Operator	LD Drilling
Well Type	Vertical
Test Type	Conv. Bottom-Hole
Test Purpose (AEUB)	Initial Test
Gauge Name	Inside 5951
Start Test Date	2014/08/16
Start Test Time	05:55:00
Final Test Date	2014/08/16
Final Test Time	15:01:00
Job Number	F300
Contact	LD Davis
Site Contact	Jim Musgrove
Qualified By	Jim Musgrove

TEST RESULTS

Initial flow, strong blow @ BOB in 15 sec., GTS 8 min., Blowback @ BOB. Oil to surface during initial shut-in.
 Final flow, strong blow, Oil to surface in 10 min. Unloaded oil to pits during final shut-in.

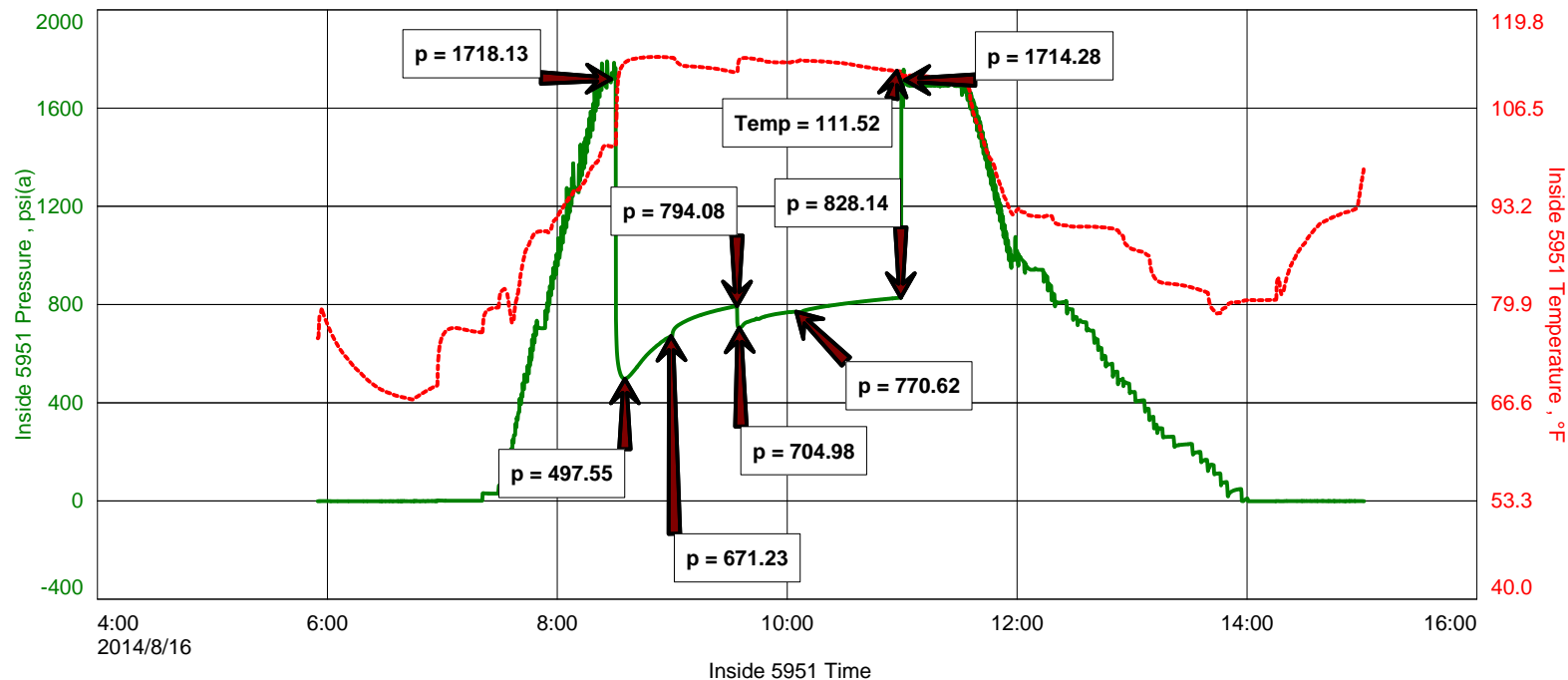
TOTAL FLUID RECOVERY: 1980'

1446'	Clean Gassy Oil	
186'	GWMCO	20% G, 15% W, 20% M, 45% O
248'	WATER	100% W
----	37.5 GRAVITY @ 60 Deg F	
----	RW: .20 ohm @ 94 Deg F	----- CHLORIDES: 26,000 PPM

LD Drilling
 Start Test Date: 2014/08/16
 Final Test Date: 2014/08/16

Rugan Farms #2-24
 Formation: Arbuckle 3525'-3545'
 Job Number: F300

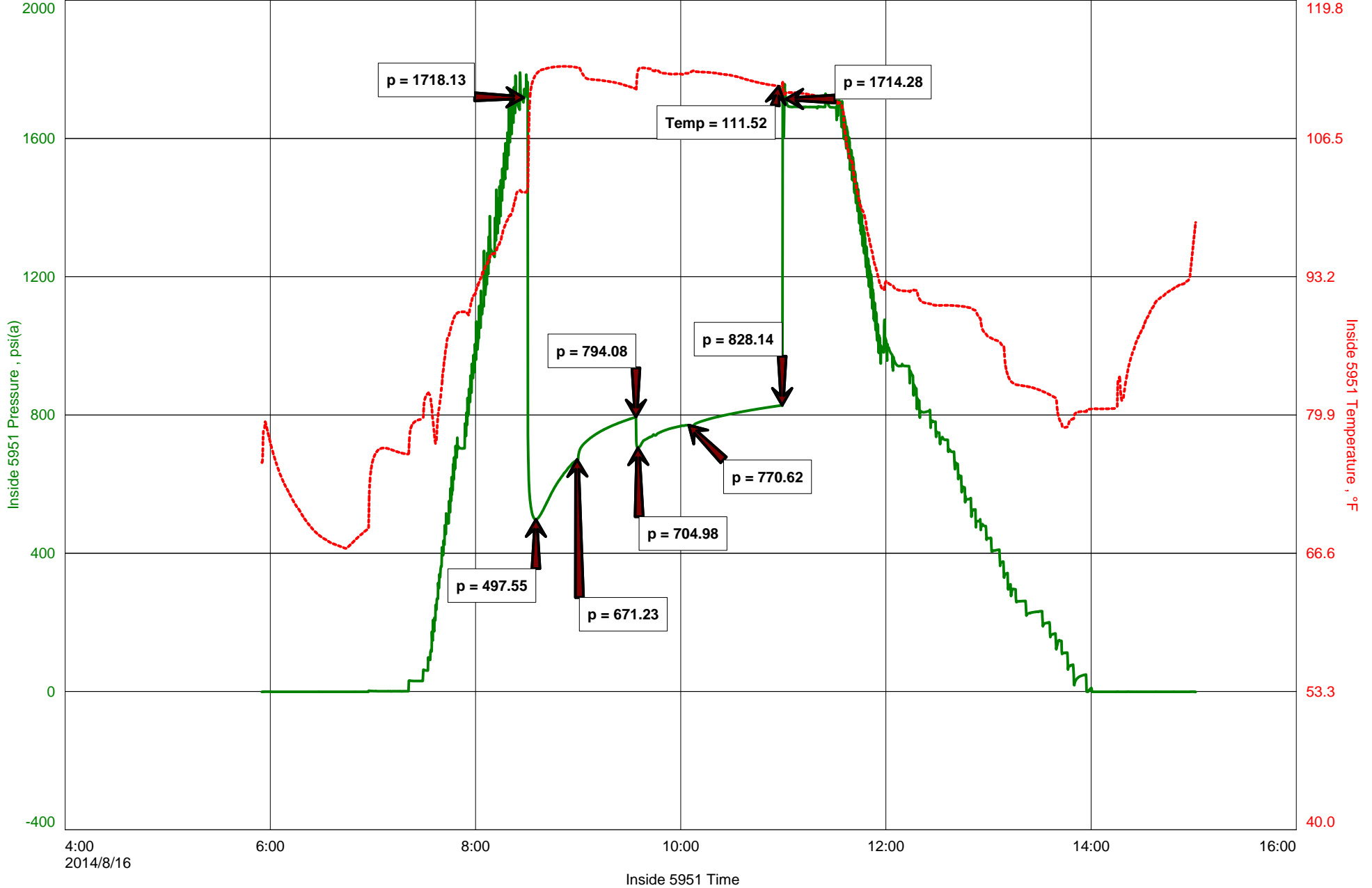
DST #5



LD Drilling
Start Test Date: 2014/08/16
Final Test Date: 2014/08/16

Rugan Farms #2-24
Formation: Arbuckle 3525'-3545'
Job Number: F300

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: RUGFAZDST5

ON LOCATION: _____
 START RECORDERS: 05:55
 STOP RECORDERS: 15:01

Company LD DRILLING Lease & Well No. RUGAN FARMS #2-24
 Contractor PETROMARK DRLLG #2 Charge to LD DRILLING
 Elevation 1892' KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F300
 Date 8-16-14 Sec. 24 Twp. 20S Range 14W County BARTON State KANSAS
 Test Approved By JEM MUSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 5 Interval Tested from 3525 ft. to 3545 ft. Total Depth 3545 ft.
 Packer Depth 3520 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3525 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3511 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3526 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 125 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 18 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 20,000 P.P.M. Drill Pipe Length 3375 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? GTS/OTS Reversed Out _____ Anchor Length 20 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: STRONG BLOW, BOB 15 SEC, GTS 8 MEN. BB @ BOB. OTS.
 2nd Open: STRONG BLOW, OTS 10 MEN, UNLOADED OIL TO PITS ON SHUT-IN.

Recovered 1446 ft. of CLEAN GASSY OIL
 Recovered 186 ft. of GWMCO 20"G, 15"W, 20"M, 45"O
 Recovered 248 ft. of WATER 100"W

Recovered _____ ft. of TOTAL REC FLUID: 1980'
 Recovered _____ ft. of 37 1/2 GRAVITY @ 60°F
 Recovered _____ ft. of .20 Ω @ 94°F
 Remarks: 20,000 CHL

	Price Job
	Other Charges
	<u>520 TOTAL MILES FOR ALL TESTS</u>
	Total

Time Set Packer(s) 8:30 ^{AM} Time Started Off Bottom 10:45 ^{AM} Maximum Temperature 112°F

Initial Hydrostatic Pressure..... (A) 1718 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 498 P.S.I. to (C) 671 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 794 P.S.I.
 Final Flow Period..... Minutes 30 (E) 705 P.S.I. to (F) 771 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 828 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1714 P.S.I. Jake Fahrenbruch

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