

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Ruth Russell #2
Company Name	Pauley Oil
Formation	Arbuckle 3739'-3748'
Test Type	Bottom-Hole DST
Surface Location	Sec 13-23s-12w-Stafford Co.-KS
KB Elevation (SL)	1854.000
Gauge Name	Inside 5951
Start Test Date	2014/12/05
Start Test Time	22:53:00
Final Test Date	2014/12/06
Final Test Time	06:13:00
Job Number	F353
Contact	Gary Pauley
Site Contact	Steve Petermann

TEST RESULTS

Initial flow, strong blow at B.O.B. in 11.5 minutes. No blowback.
 Final flow, strong blow at B.O.B. in 18 minutes. Blowback at 3".

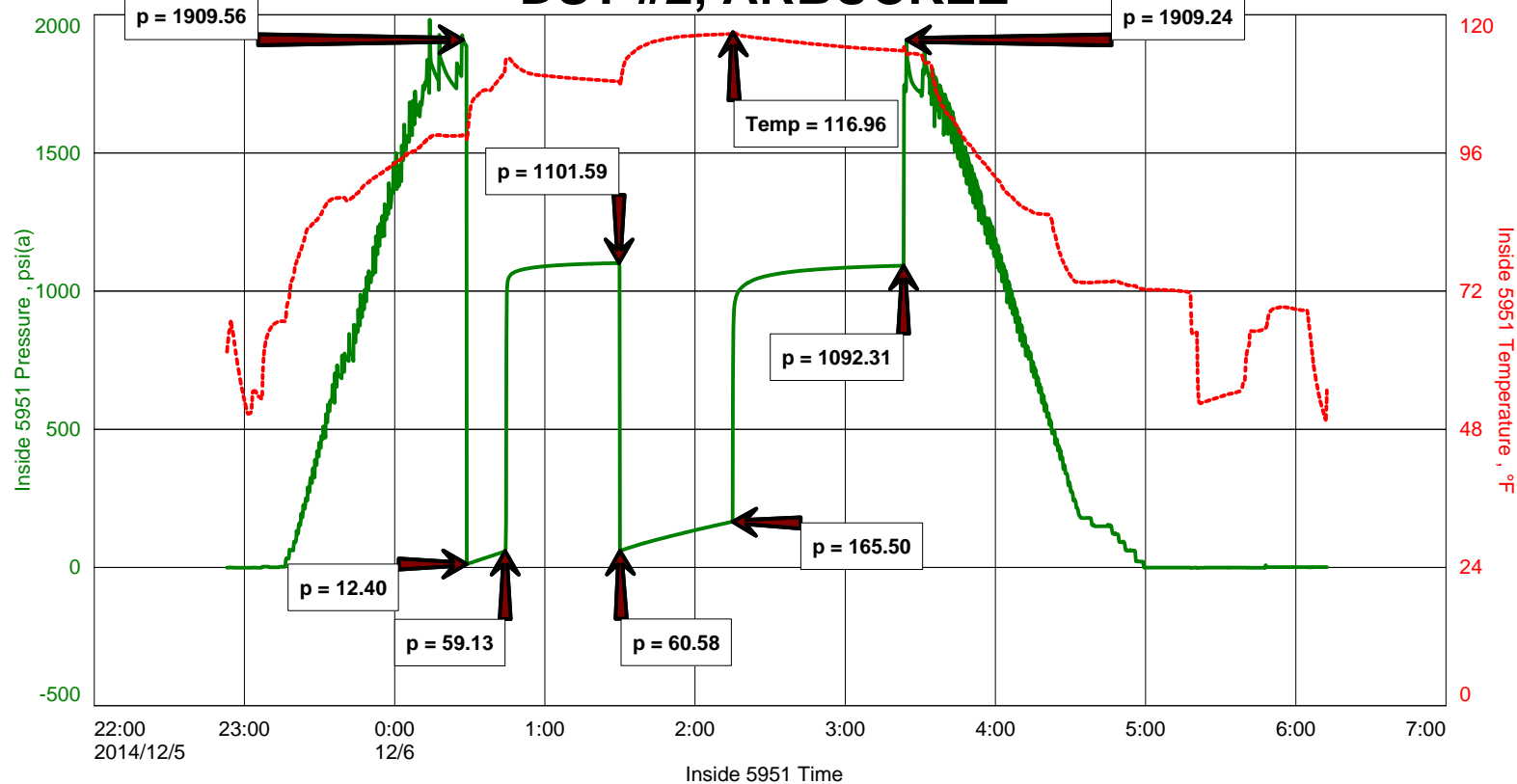
TOTAL RECOVERED FLUID: 370'

90' Clean Oil 100% oil
 285' SOS SMCW 1% oil, 94% wtr, 5% mud
 ----- ~100' Gas In Pipe
 ----- Gravity: 37 @ 60 F ----- RW: .45 ohm @ 46 F ----- Chlorides: 23,000 PPM ----- PH: 8.0

Pauley Oil
 Start Test Date: 2014/12/05
 Final Test Date: 2014/12/06

Ruth Russell #2
 Formation: Arbuckle 3739'-3748'
 Job Number: F353

DST #2, ARBUCKLE





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: RUTH RUS 2 DST 2

ON LOCATION: 22:45
 START RECORDERS: 22:53
 STOP RECORDERS: 06:13

Company PAULEY OIL Lease & Well No. RUTH RUSSELL #2
 Contractor VINNESCAH DRUG LLC Charge to PAULEY OIL
 Elevation 1854' NB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F853
 Date 12-6-14 Sec. 13 Twp. 23 S Range 12 W County STAFFORD State KANSAS
 Test Approved By STEVE PETERMANN Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3739 ft. to 3748 ft. Total Depth 3748 ft.
 Packer Depth 3734 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3739 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3725 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3726 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 46 Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 9.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 4000 P.P.M. Drill Pipe Length 3714 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? _____ Reversed Out _____ Anchor Length 9 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 AT B.O.B. IN 11 1/2 MIN. NBB
 2nd Open: STRONG BLOW AT B.O.B. IN 18 MIN. BB @ 3"

Recovered _____ ft. of TOTAL RECOVERED FLUID: 370'
 Recovered 90 ft. of CLEAN OIL 100" OIL
 Recovered 285 ft. of SOS SMCW 1" OIL, 94" WTR, 5" MUD
 Recovered _____ ft. of ≈ 100' GAS IN PIPE
 Recovered _____ ft. of GRAVITY = 37 @ 60°F
 Recovered _____ ft. of RW: .45 Ω @ 46°F
 Remarks: CHLORIDES: 23,000 PPM
PH: 8.0

	Price Job
	Other Charges
	<u>68 MRT (PRATT)</u>
	Total

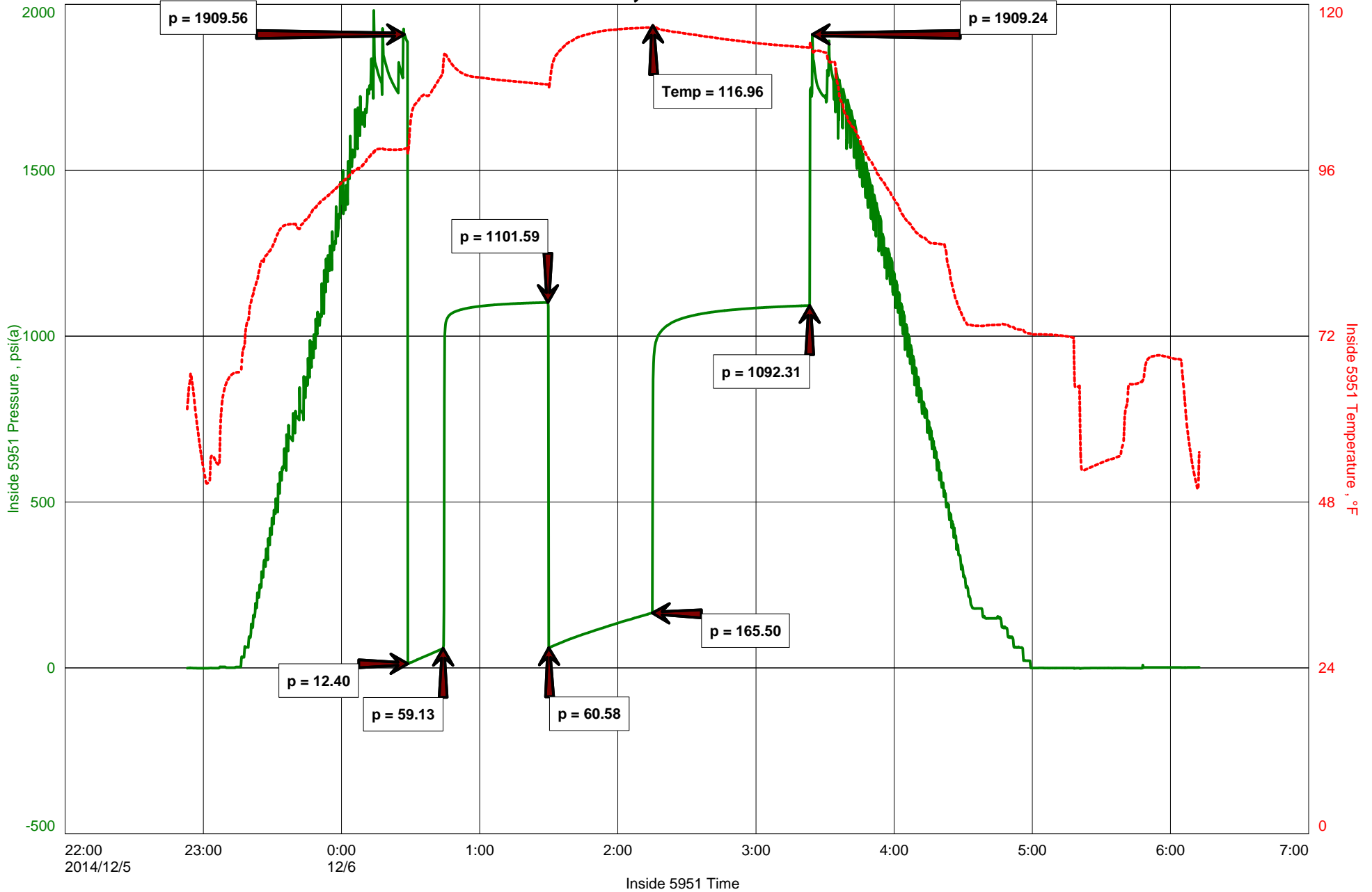
Time Set Packer(s) 12:30 ^{A.M.} P.M. Time Started Off Bottom 3:15 ^{A.M.} P.M. Maximum Temperature 117°F
 Initial Hydrostatic Pressure..... (A) 1910 P.S.I.
 Initial Flow Period..... Minutes 15 (B) 12 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1102 P.S.I.
 Final Flow Period..... Minutes 45 (E) 61 P.S.I. to (F) 166 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1092 P.S.I. Thank You!
 Final Hydrostatic Pressure..... (H) 1909 P.S.I. Jacob & Johnstone

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.

Pauley Oil
Start Test Date: 2014/12/05
Final Test Date: 2014/12/06

Ruth Russell #2
Formation: Arbuckle 3739'-3748'
Job Number: F353

DST #2, ARBUCKLE





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RUTHRUS2DST2

TIME ON: 22:53
TIME OFF: 06:13

Company Pauley Oil Lease & Well No. Ruth Russell #2
Contractor Ninnescah Drlg. LLC Charge to Pauley Oil
Elevation 1854' KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. F353
Date 12-6-14 Sec. 13 Twp. 23s S Range 12w W County Stafford State KANSAS
Test Approved By Steve Petermann Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3739 ft. to 3748 ft. Total Depth 3748 ft.
Packer Depth 3734 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3739 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3725 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3726 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 46 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 9.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 3,714 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 9 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 at B.O.B. in 11.5 minutes. No blowback.
2nd Open: Strong blow at B.O.B. in 18 minutes. Blowback @ 3".

Recovered _____ ft. of TOTAL RECOVERED FLUID: 370'
Recovered 90 ft. of Clean Oil 100% oil
Recovered 285 ft. of SOS SMCW 1% oil, 94% wtr, 5% mud

Recovered _____ ft. of <u>~100' Gas In Pipe</u>	
Recovered _____ ft. of <u>Gravity: 37 @ 60 F</u>	Price Job
Recovered _____ ft. of <u>RW: .45 ohm @ 46 F</u>	Other Charges
Remarks: <u>Chlorides: 23,000 PPM</u>	Insurance
<u>PH: 8.0</u>	Total

Time Set Packer(s) 12:30 AM A.M. P.M. Time Started Off Bottom 3:15 AM A.M. P.M. Maximum Temperature 117 F

Initial Hydrostatic Pressure..... (A) 1910 P.S.I.
Initial Flow Period..... Minutes 15 (B) 12 P.S.I. to (C) 59 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1102 P.S.I.
Final Flow Period..... Minutes 45 (E) 61 P.S.I. to (F) 166 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1092 P.S.I.
Final Hydrostatic Pressure..... (H) 1909 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.