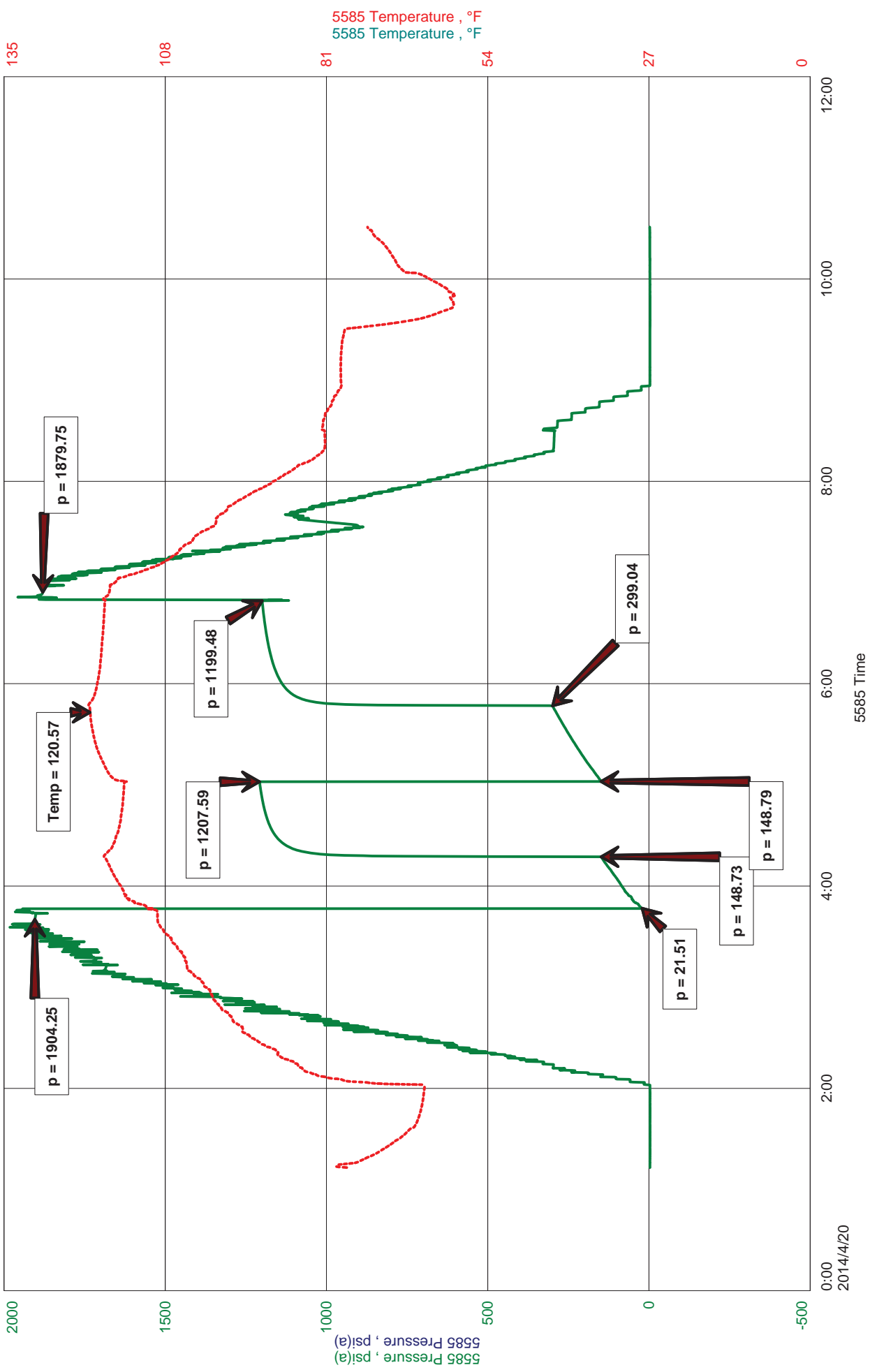


NEW GULF OPERATING LLC  
DST1 TORONTO 4024-4080  
Start Test Date: 2014/04/20  
Final Test Date: 2014/04/20

BOYD 1-3  
Formation: DST1 TORONTO 4024-4080  
Pool: WILDCAT  
Job Number: A045

# BOYD 1-3



# DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA  
CELL # 620-617-7202

## General Information

Company Name	NEW GULF OPERATING LLC	Job Number	A045
Contact	JIM HENKLE	Representative	ANDY CARREIRA
Well Name	BOYD 1-3	Well Operator	NEW GULF OPERATING LLC
Unique Well ID	DST1 TORONTO 4024-4080	Report Date	2014/04/20
Surface Location	SEC3-12S-32W LOGAN CNTY, KS	Prepared By	ANDY CARREIRA
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

## Test Information

Test Type	CONVENTIONAL
Formation	DST1 TORONTO 4024-4080
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/04/20	Start Test Time	01:13:00
Final Test Date	2014/04/20	Final Test Time	10:31:00

## Test Results

RECOVERY: 40' OIL GRAVITY: 21 @ 60 deg  
63' HOCWM 40%O, 20%W, 40%M  
189' OCMW 10%O, 70%W, 20%M  
338' MW 95%W, 5%M  
630' TOTAL FLUID CHLORIDES: 63000  
Ph: 7  
RW: .16 @ 68 deg

TOOL SAMPLE: 4%OIL, 96%WATER



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: BOYD 1-3 DST1

TIME ON: 01:13  
TIME OFF: 10:31

Company NEW GULF OPERATING LLC Lease & Well No. BOYD 1-3  
Contractor VAL 4 Charge to NEW GULF OPERATIG LLC  
Elevation 3001 KB Formation TORONTO Effective Pay \_\_\_\_\_ Ft. Ticket No. A045  
Date 4-20-14 Sec. 3 Twp. 12 S Range 32 W County LOGAN State KANSAS  
Test Approved By JOHN GOLDSMITH Diamond Representative ANDY CARREIRA

Formation Test No. 1 Interval Tested from 4024 ft. to 4080 ft. Total Depth 4080 ft.  
Packer Depth 4019 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4024 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4005 ft. Recorder Number 5585 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4026 ft. Recorder Number 8471 Cap. 10000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 29 ft. I.D. 2 1/4 in.  
Weight 8.9 Water Loss 7.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3000 P.P.M. Drill Pipe Length 3991 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 56 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: BOB IN 12 MIN. (NObb)  
2nd Open: BOB IN 14 MIN. (NObb)

Recovered 40 ft. of OIL GRAVITY: 21 @ 60 deg  
Recovered 63 ft. of HOCWM 40%O, 20%W, 40%M CHLORIDES: 63000  
Recovered 189 ft. of OCMW 10%O, 70%W, 20%M Ph: 7  
Recovered 338 ft. of MW 95%W, 5%M RW: .16 @ 68 deg

Recovered <u>630</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: 4%OIL, 96%WATER</u>	Total

Time Set Packer(s) 3:47 AM A.M. P.M. Time Started Off Bottom 6:47 AM A.M. P.M. Maximum Temperature 121

Initial Hydrostatic Pressure..... (A) 1904 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 22 P.S.I. to (C) 149 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1208 P.S.I.  
Final Flow Period..... Minutes 45 (E) 149 P.S.I. to (F) 299 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1199 P.S.I.  
Final Hydrostatic Pressure..... (H) 1880 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.