

# DIAMOND TESTING

## General Information Report

### General Information

**Company Name** NEW GULF OPERATING, LLC  
**Contact** WINK KOPCZYNSKI JR.  
**Well Name** ST. JOSEPH #2  
**Unique Well ID** DST #4, JOHNSON, 4538-4602  
**Surface Location** SEC 10-12S-32W, LOGAN CO. KS.  
**Field** WILDCAT  
**Well Type** Vertical  
**Test Type** CONVENTIONAL  
**Formation** DST #4, JOHNSON, 4538-4602  
**Well Fluid Type**

**Representative** TIM VENTERS  
**Well Operator** NEW GULF OPERATING, LLC  
**Report Date** 2013/11/08  
**Prepared By** TIM VENTERS  
**Qualified By** JOHN GOLDSMITH

**Start Test Date** 2013/11/07  
**Final Test Date** 2013/11/08

**Start Test Time** 19:43:00  
**Final Test Time** 05:42:00

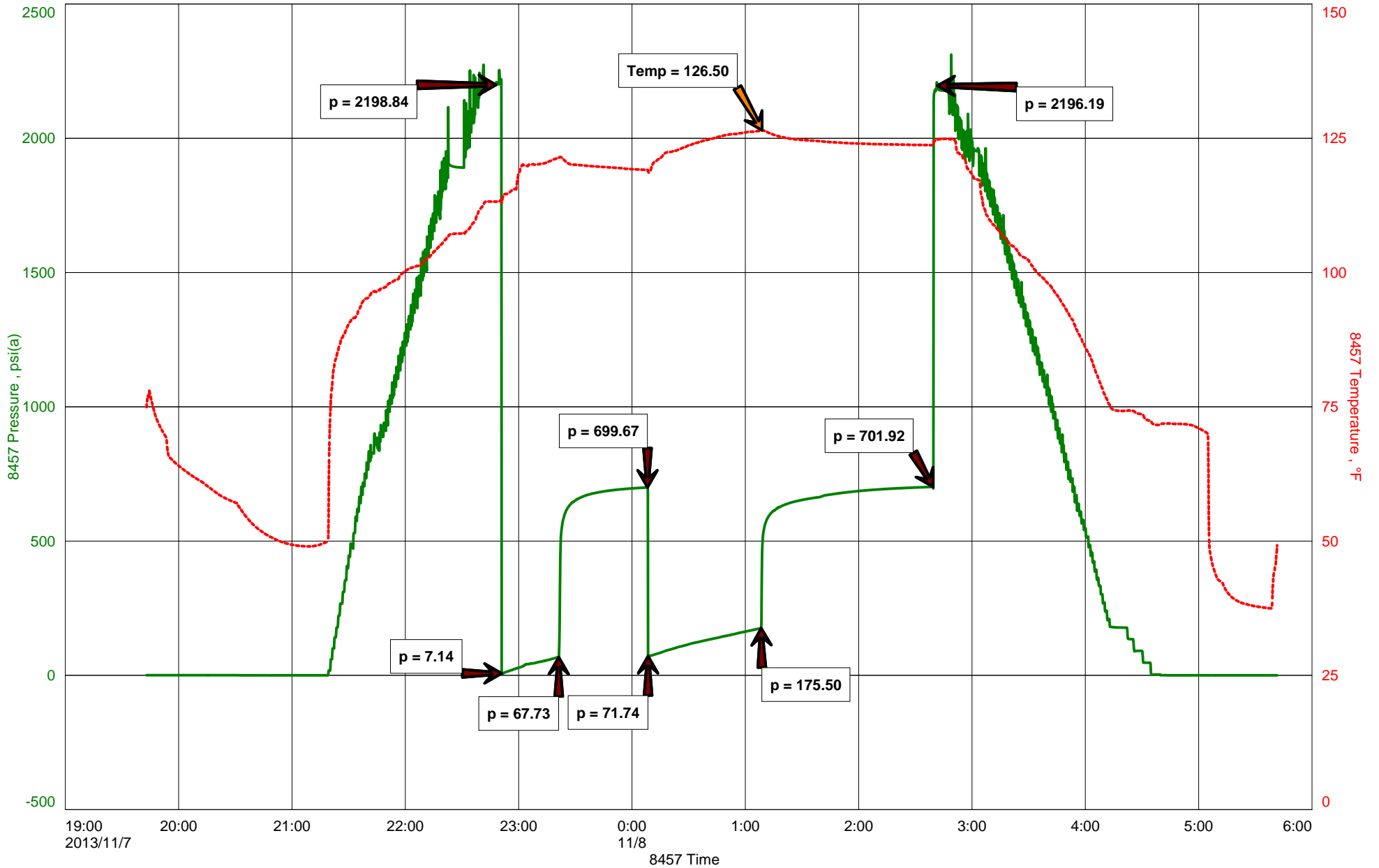
### Test Recovery:

RECOVERED: 435' GAS IN PIPE  
50' CO, 100% OIL, GRAVITY: 25  
85' G,SOCM, 6% GAS, 17% OIL, 77% MUD  
125' G,SO,WCM, 1% GAS, 8% OIL, 24% WATER, 67% MUD  
125' G,SO,MCW, 2% GAS, 4% OIL, 58% WATER, 36% MUD  
385' TOTAL FLUID

TOOL SAMPLE: 4% OIL, 78% WATER, 18% MUD

CHLORIDES: 30,000 ppm  
PH: 7.0  
RW: .33 @ 73 deg.

# ST. JOSEPH #2





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: ST.JOSEPH2DST4

TIME ON: 19:43 11-7-13  
TIME OFF: 05:42 11-8-13

Company NEW GULF OPERATING, LLC Lease & Well No. ST. JOSEPH #2  
Contractor VAL ENERGY, INC. RIG #4 Charge to NEW GULF OPERATING, LLC  
Elevation 3016 KB Formation JOHNSON Effective Pay \_\_\_\_\_ Ft. Ticket No. T278  
Date 11-7-13 Sec. 10 Twp. \_\_\_\_\_ 12 S Range \_\_\_\_\_ 32 W County LOGAN State KANSAS  
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4538 ft. to 4602 ft. Total Depth 4602 ft.  
Packer Depth 4533 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4538 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4519 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4599 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 54 Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 3,300 P.P.M. Drill Pipe Length 4505 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 33 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>31' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING, REACHING BOB 30 MIN. (VWS BB)  
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 27 1/2 MIN. (1/4" BB)

Recovered <u>435</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>50</u> ft. of <u>CO, 100% OIL, GRAVITY: 25</u>	
Recovered <u>85</u> ft. of <u>G,SOCM, 6% GAS, 17% OIL, 77% MUD</u>	
Recovered <u>125</u> ft. of <u>G,SO,WCM, 1% GAS, 8% OIL, 24% WATER, 67% MUD</u>	
Recovered <u>125</u> ft. of <u>G,SO,MCW, 2% GAS, 4% OIL, 58% WATER, 36% MUD</u>	Price Job
Recovered <u>385</u> ft. of <u>TOTAL FLUID</u> CHORIDES: <u>30,000</u> ppm	Other Charges
Remarks: _____ PH: <u>7.0</u>	Insurance
_____ RW: <u>.33 @ 73 deg.</u>	
TOOL SAMPLE: <u>4% OIL, 78% WATER, 18% MUD</u>	Total

Time Set Packer(s) 10:50 PM A.M. P.M. Time Started Off Bottom 2:38 AM A.M. P.M. Maximum Temperature 127 deg.

Initial Hydrostatic Pressure..... (A) 2199 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 68 P.S.I.  
Initial Closed In Period..... Minutes 48 (D) 700 P.S.I.  
Final Flow Period..... Minutes 60 (E) 72 P.S.I. to (F) 176 P.S.I.  
Final Closed In Period..... Minutes 90 (G) 702 P.S.I.  
Final Hydrostatic Pressure..... (H) 2196 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.