



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: muench1-16dst2

TIME ON: 03:34  
TIME OFF: 10:17

Company New Gulf Lease & Well No. Muench #1-16  
Contractor Val Rig #4 Charge to New Gulf  
Elevation 3046 KB Formation Swope Effective Pay \_\_\_\_\_ Ft. Ticket No. S0466  
Date 07-19-14 Sec. 16 Twp. 17 S Range 33 W County Scott State KANSAS  
Test Approved By John Goldsmith Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 4255 ft. to 4301 ft. Total Depth 4301 ft.

Packer Depth 4250 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 4255 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4236 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4291 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 49 Drill Collar Length 30 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 7.6 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 4,000 P.P.M. Drill Pipe Length 4192 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? No Reversed Out No Anchor Length 46 (14.5 A) 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: 1/4" Blow- Built to 11 3/4" in 30 min **NOBB**

2nd Open: No Blow- Built to 11 1/4" in 30 min **NOBB**

Recovered 103 ft. of HWCM 30% W 70% M

Recovered 189 ft. of MCW 74% W 26% M

Recovered 292 ft. of TOTAL FLUID

Recovered \_\_\_\_\_ ft. of PH: 8

Recovered \_\_\_\_\_ ft. of RW: .23 @ 68 degrees F Price Job \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of Chlorides: 29,000 ppm Other Charges \_\_\_\_\_

Remarks: \_\_\_\_\_ Insurance \_\_\_\_\_

TOOL SAMPLE: 82% W 18% M (few oil specks) Total \_\_\_\_\_

Time Set Packer(s) 5:50 AM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 8:05 AM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 125

Initial Hydrostatic Pressure..... (A) 2056 P.S.I.

Initial Flow Period..... Minutes 30 (B) 42 P.S.I. to (C) 110 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1127 P.S.I.

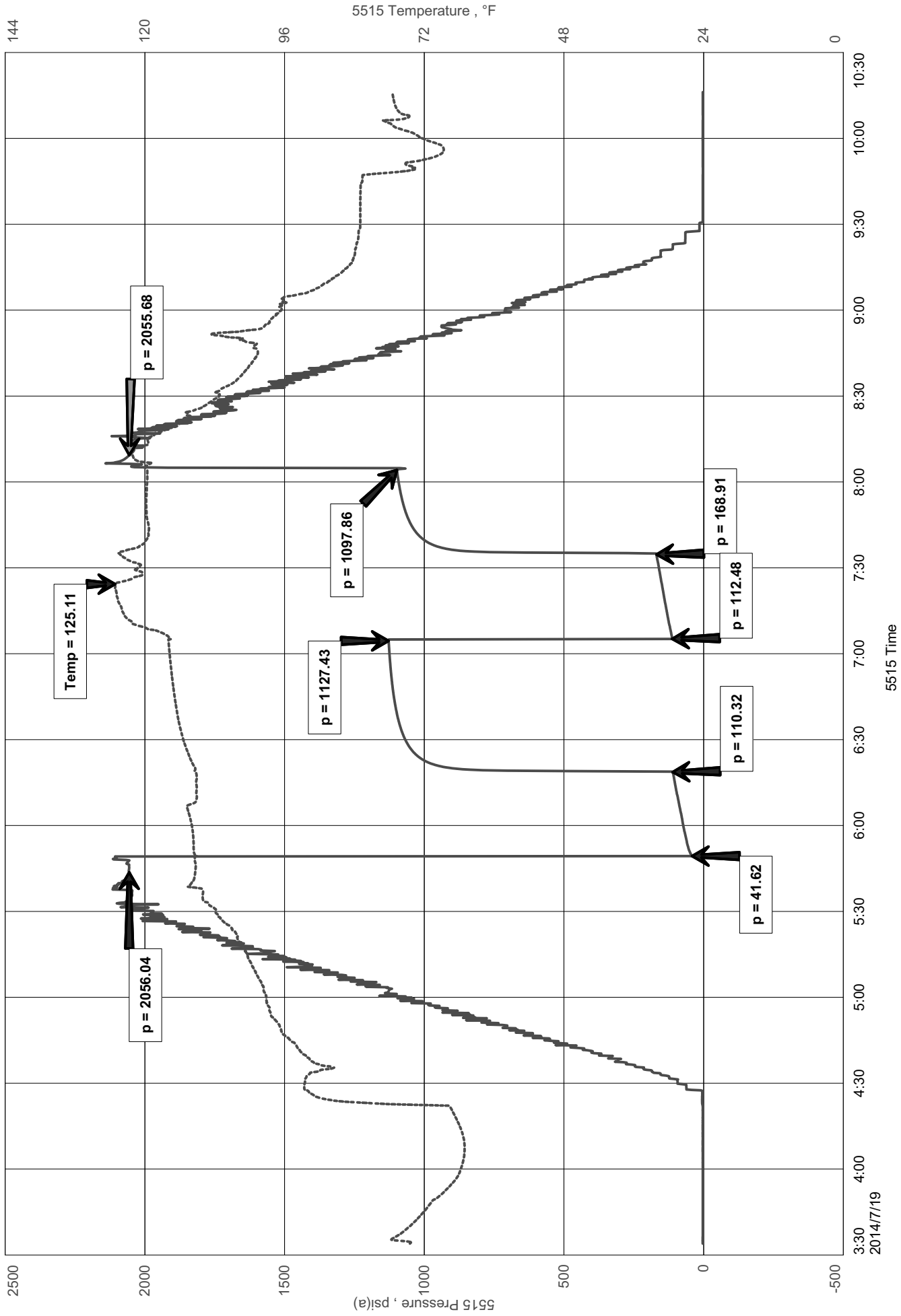
Final Flow Period..... Minutes 30 (E) 112 P.S.I. to (F) 169 P.S.I.

Final Closed In Period..... Minutes 30 (G) 1098 P.S.I.

Final Hydrostatic Pressure..... (H) 2056 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.

# Muench #1-16



# Diamond Testing LLC

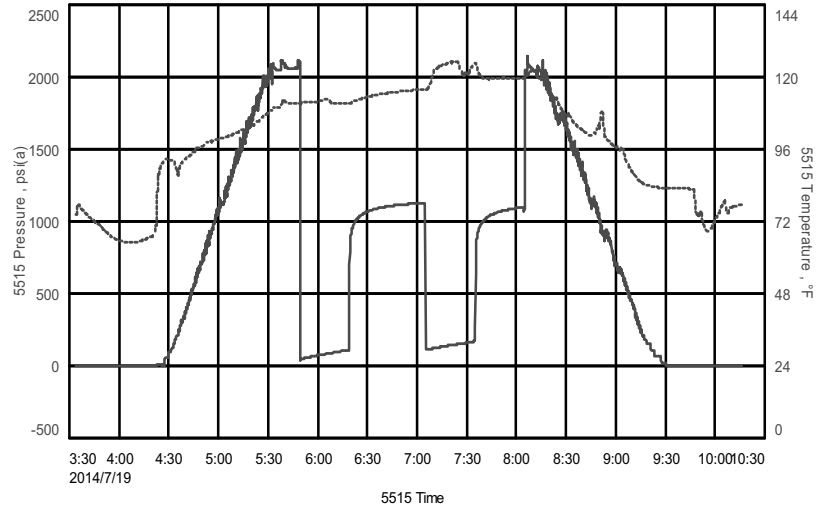
## General Information Report

Jacob McCallie  
620-617-7116  
mccallie.dtlc@gmail.com

### General Information

Company Name New Gulf  
Contact Jim Henkle  
Well Name Muench #1-16  
Unique Well ID DST #2 Swope 4255-4301'  
Surface Location SEC 16-17S-33W Scott County  
Field WC  
Well Type Vertical  
Test Type Drill Stem Test  
Formation DST #2 Swope 4255-4301'  
Well Fluid Type 06 Water  
Start Test Date 2014/07/19  
Start Test Time 03:34:00  
Final Test Date 2014/07/19  
Final Test Time 10:17:00  
Job Number S0466  
Representative Jacob McCallie  
Report Date 2014/07/19  
Qualified By John Goldsmith

### Muench #1-16



### Test Results

#### RECOVERY:

103'	HWCM	30% W 70% M
189'	MCW	74% W 26% M
292'	TOTAL FLUID	

PH: 8

RW: .23 @ 68 degrees F

Chlorides: 29,000 ppm

#### TOOL SAMPLE:

82% W 18% M (few oil specks)