



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: muench1-16dst5

TIME ON: 14:36
TIME OFF: 21:32

Company New Gulf Lease & Well No. Muench #1-16
Contractor Val Rig #4 Charge to New Gulf
Elevation 3046 KB Formation Atoka Effective Pay _____ Ft. Ticket No. S0469
Date 7-22-14 Sec. 16 Twp. 17 S Range 33 W County Scott State KANSAS
Test Approved By John Goldsmith Diamond Representative Jacob McCallie

Formation Test No. 5 Interval Tested from 4578 ft. to 4714 ft. Total Depth 4714 ft.

Packer Depth 4573 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 4578 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4559 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4675 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 45 Drill Collar Length 30 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 9.6 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 4515 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 136 (42A) 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 2" in 30 min **NOBB**

2nd Open: WSB- Built to 4" in 30 min **NOBB**

Recovered 84 ft. of SLOCM 12% O 88% M

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: 27% O 73% M

Time Set Packer(s) 5:06 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 7:06 PM ^{A.M.}/_{P.M.} Maximum Temperature 118

Initial Hydrostatic Pressure..... (A) 2225 P.S.I.

Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 32 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 987 P.S.I.

Final Flow Period..... Minutes 30 (E) 36 P.S.I. to (F) 43 P.S.I.

Final Closed In Period..... Minutes 30 (G) 575 P.S.I.

Final Hydrostatic Pressure..... (H) 2224 P.S.I.

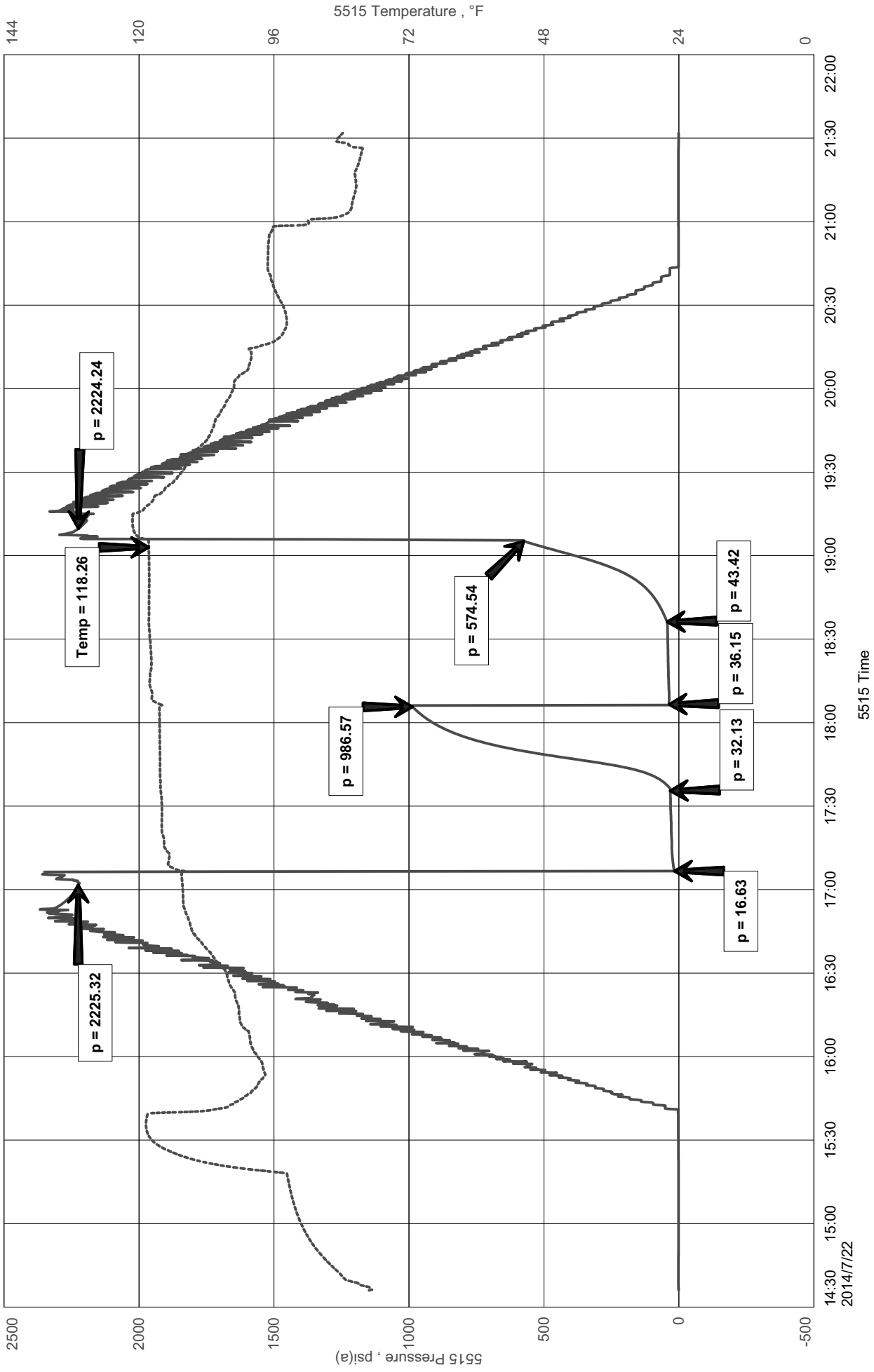
Price Job
Other Charges
Insurance
Total

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.

New Gulf
DST #1 Atoka 4578-4714'
Start Test Date: 2014/07/22
Final Test Date: 2014/07/22

Muench #1-16
Formation: DST #1 Atoka 4578-4714'
Pool: WC
Job Number: S0469

Muench #1-16



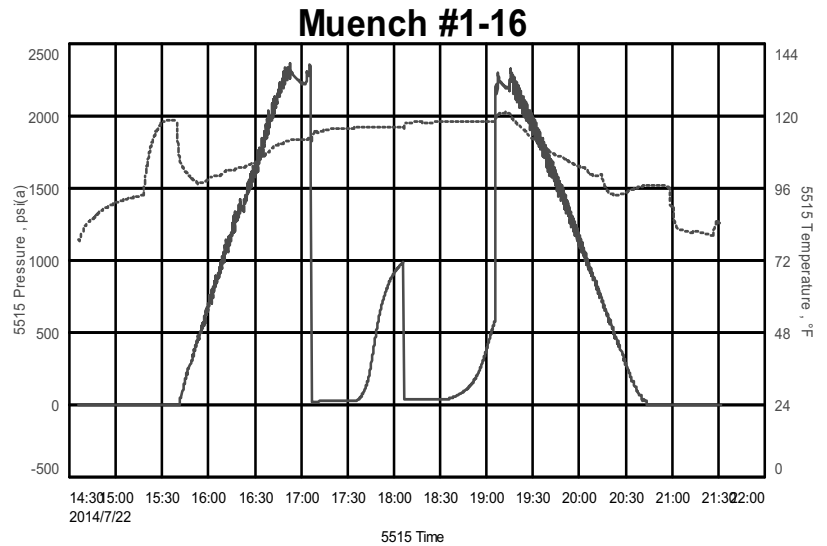
Diamond Testing LLC

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 #1 Atoka 4578-4714'
Surface Location	SEC 16-17S-33W Scott County	Field	WC
Well Type	Vertical	Test Type	Drill Stem Test
Formation	DST #1 Atoka 4578-4714'	Well Fluid Type	01 Oil
Start Test Date	2014/07/22	Start Test Time	14:36:00
Final Test Date	2014/07/22	Final Test Time	21:32:00
Job Number	S0469	Representative	Jacob McCallie
Report Date	2014/07/22	Qualified By	John Goldsmith



Test Results

RECOVERY: 84' SLOCM 12% O 88% M

TOOL SAMPLE: 27% O 73% M