



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: muench1-16dst3

TIME ON: 7-19 19:29
TIME OFF: 7-20 04:05

Company New Gulf Lease & Well No. Muench #1-16
Contractor Val Rig #4 Charge to New Gulf
Elevation 3046 KB Formation Hertha Effective Pay _____ Ft. Ticket No. S0467
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. 3 Interval Tested from 4296 ft. to 4343 ft. Total Depth 4343 ft.

Packer Depth 4291 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 4296 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4277 ft. Recorder Number 5515 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4332 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 46 Drill Collar Length 30 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in

Chlorides 4,200 P.P.M. Drill Pipe Length 4233 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 47 (15.5A) 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: 1/2" Blow- Built to BB in 9 3/4 min 6" BB

2nd Open: 1/2" Blow- Built to BB in 12 min 2" BB

Recovered 315 ft. of GIP

Recovered 382 ft. of CO 100% O GRAVITY: 27 @ 60 degrees F

Recovered 220 ft. of SLW&GCHMCO 12% G 50% O 7% W 31% M

Recovered 602 ft. of TOTAL FLUID

Recovered _____ ft. of _____ Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: _____ Insurance _____

TOOL SAMPLE: 75% O 5% W 20% M Total _____

Time Set Packer(s) 7-19 9:50 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 7-20 12:50 AM ^{A.M.}/_{P.M.} Maximum Temperature 123

Initial Hydrostatic Pressure..... (A) 2038 P.S.I.

Initial Flow Period..... Minutes 30 (B) 18 P.S.I. to (C) 128 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1110 P.S.I.

Final Flow Period..... Minutes 45 (E) 137 P.S.I. to (F) 247 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1096 P.S.I.

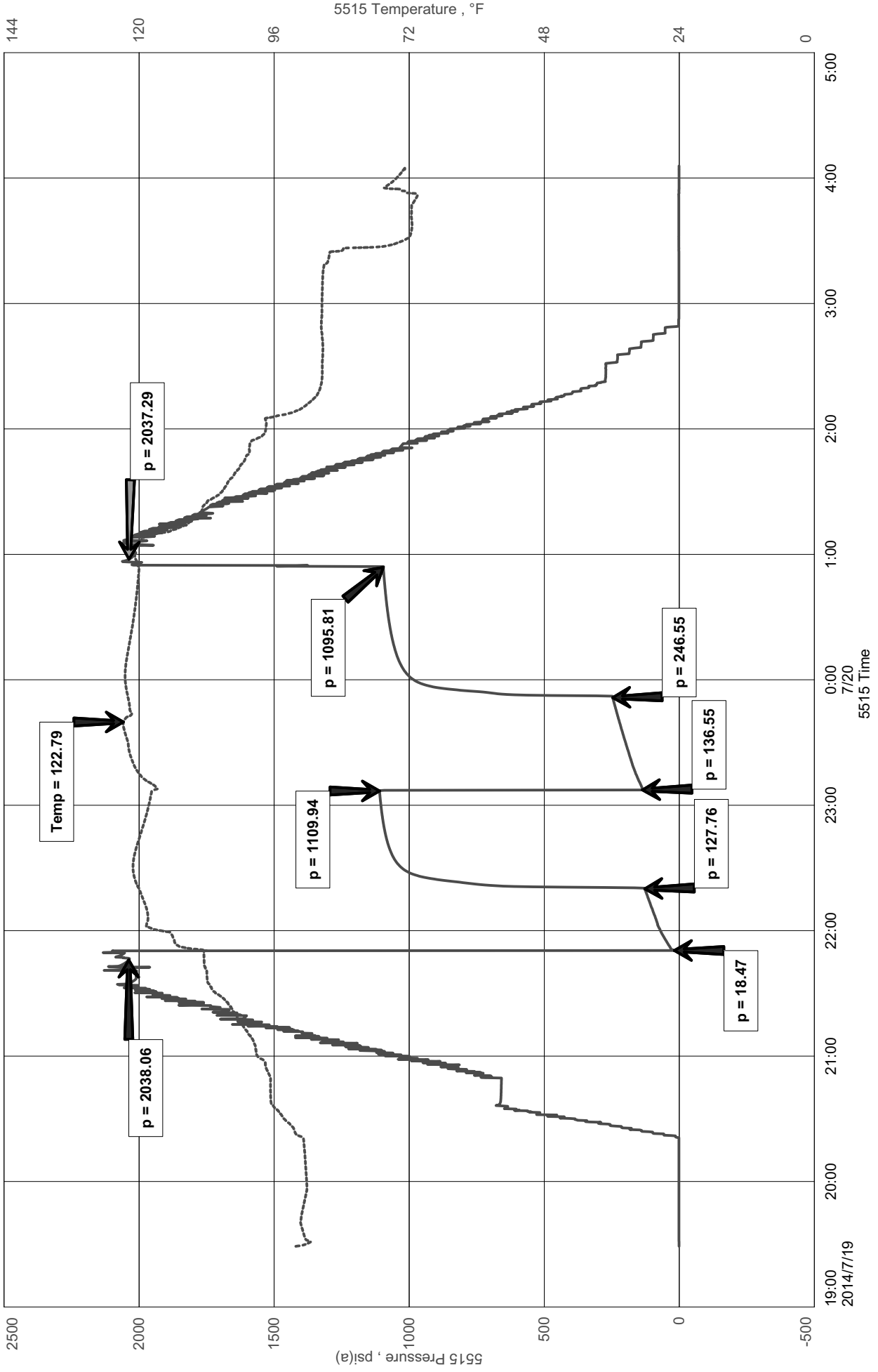
Final Hydrostatic Pressure..... (H) 2037 P.S.I.

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.

New Gulf
DST #3 Hertha 4296-4343'
Start Test Date: 2014/07/19
Final Test Date: 2014/07/20

Muench #1-16
Formation: DST #3 Hertha 4296-4343'
Pool: WC
Job Number: S0467

Muench #1-16



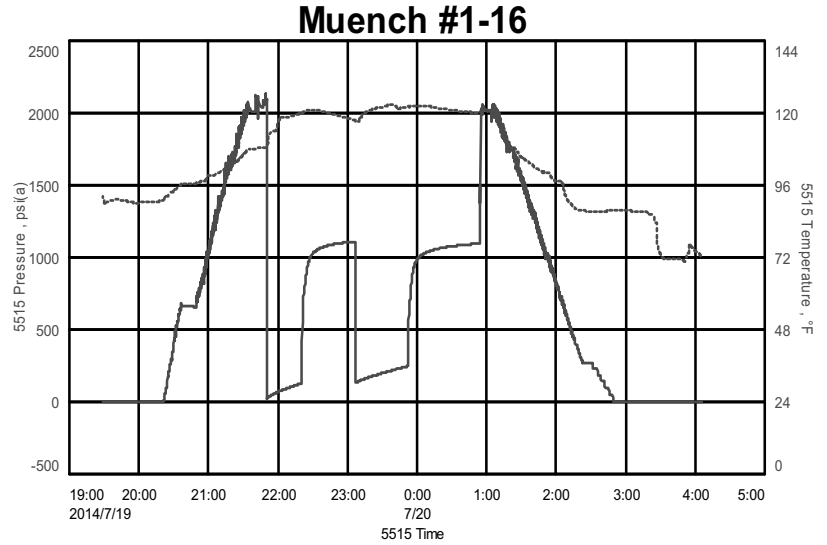
Diamond Testing LLC

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 #3 Hertha 4296-4343'
Surface Location	SEC 16-17S-33W Scott County	Field	WC
Well Type	Vertical	Test Type	Drill Stem Test
Formation	DST #3 Hertha 4296-4343'	Well Fluid Type	01 Oil
Start Test Date	2014/07/19	Start Test Time	19:29:00
Final Test Date	2014/07/20	Final Test Time	04:05:00
Job Number	S0467	Representative	Jacob McCallie
Report Date	2014/07/19	Qualified By	John Goldsmith



Test Results

RECOVERY:

315'	GIP	100% O	GRAVITY: 27 @ 60 degrees F
382'	CO	12% G 50% O 7% W 31% M	
220'	SLW&GCHMCO		
602'	TOTAL FLUID		

TOOL SAMPLE:

75% O 5% W 20% M