



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: brownt1-12dst1

TIME ON: 10:18
TIME OFF: 19:32

Company Mull Drilling Co Inc Lease & Well No. Brown Trust #1-12
Contractor Duke Drilling - Rig #4 Charge to Mull Drilling Co Inc
Elevation 2945 KB Formation _____ Lsg "D" zn Effective Pay _____ Ft. Ticket No. S0382
Date 9-24-13 Sec. 12 Twp. _____ 16 S Range _____ 32 W County _____ Scott State KANSAS
Test Approved By Kevin Kessler Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 4005 ft. to 4045 ft. Total Depth 4045 ft.

Packer Depth 4000 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4005 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3986 ft. Recorder Number 8471 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4042 ft. Recorder Number 3851 Cap. 5,700 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length _____ ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 7.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 2,400 P.P.M. Drill Pipe Length 3972 ft. I.D. 3 1/2 in.

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

Did Well Flow? NO Reversed Out NO Anchor Length 40 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: 2 1/2" Blow- Built to BB in 3 1/4 min NOBB

2nd Open: 2 1/2" Blow- Built to BB in 3 1/2 min NOBB

Recovered 159 ft. of WM 50% W 50% M

Recovered 1323 ft. of SLMCW 93% W 7% W

Recovered 1482 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of PH: 7 Price Job _____

Recovered _____ ft. of RW: .19 @ 82 degrees F Other Charges _____

Remarks: CHLORIDES: 32,000 ppm Insurance _____

Tool Sample: 3% O 52% W 45% M Total _____

Time Set Packer(s) 1:08 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 4:43 PM ^{A.M.}/_{P.M.} Maximum Temperature 122

Initial Hydrostatic Pressure..... (A) 1950 P.S.I.

Initial Flow Period..... Minutes 5 (B) 46 P.S.I. to (C) 113 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 1035 P.S.I.

Final Flow Period..... Minutes 60 (E) 131 P.S.I. to (F) 669 P.S.I.

Final Closed In Period..... Minutes 120 (G) 1034 P.S.I.

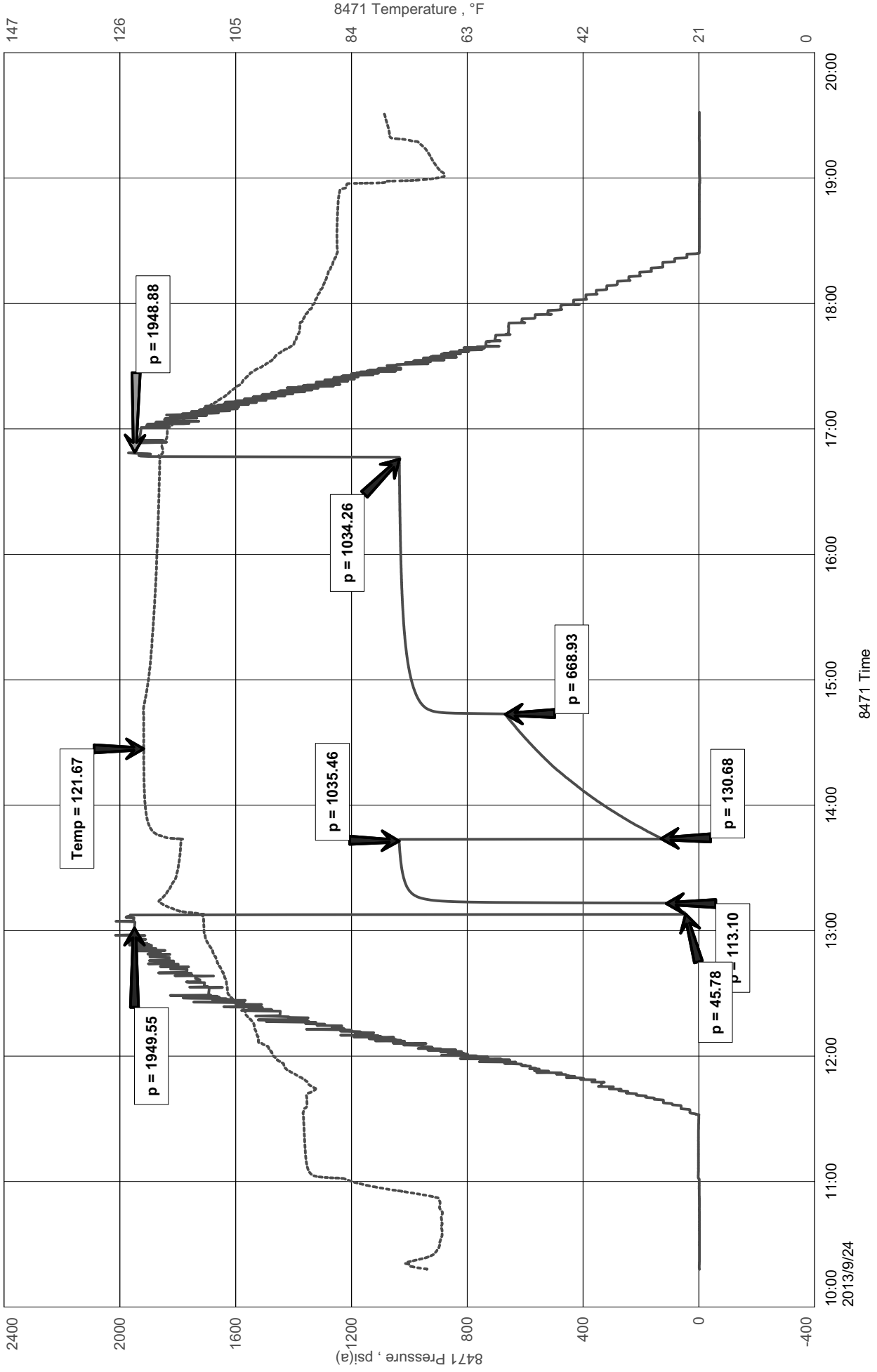
Final Hydrostatic Pressure..... (H) 1949 P.S.I.

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.

Mull Drilling Co Inc
DST #1 4005-4045' Lsg "D" Zn
Start Test Date: 2013/09/24
Final Test Date: 2013/09/24

Brown Trust #1-12
Formation: DST #1 4005-4045' Lsg "D" Zn
Pool: Wildcat
Job Number: S0382

Brown Trust #1-12



Diamond Testing

General information Report

General Information

Company Name Mull Drilling Co Inc

Contact	Mark Shreve	Job Number	S0382
Well Name	Brown Trust #1-12	Representative	Jacob McCallie
Unique Well ID	DST #1 4005-4045' Lsg "D" Zn	Well Operator	Mull Drilling Co Inc
Surface Location	SEC 12-16S-32W Scott County	Report Date	2013/09/24
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 4005-4045' Lsg "D" Zn		
Well Fluid Type	06 Water	Start Test Time	10:18:00
		Final Test Time	19:32:00
Start Test Date	2013/09/24		
Final Test Date	2013/09/24		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:

159'	WM	50% W 50% M
1323'	SLMCW	93% W 7% M
1482'	TOTAL FLUID	

PH: 7
RW: .19 @ 82 degrees F
Chlorides: 32,000 ppm

TOOL SAMPLE:
3% O 52% W 45% M