



Adi # - 15-101-22048-0000

## DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21083.D 352

Page 1 of 2 Pages

Company Mull Drilling Co., Inc. Lease & Well No. Muffitt No. 2-29

Elevation 2703 KB Formation Lansing/Kansas City "J-K" Effective Pay -- Ft. Ticket No. J2155

Date 11-01-07 Sec. 29 Twp. 17S Range 28W County      Lane      State Kansas

Test Approved By Kevin L. Kessler Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 4,140 ft. to 4,190 ft. Total Depth 4,190 ft.

Packer Depth 4,135 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,140 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,143 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,187 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 4,120 ft. I.D. 3 1/2 in.

Chlorides 1,700 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 50 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong, 8 in., blow. No blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 15 mins. No blow back during shut-in.

Recovered 130 ft. of water cut mud = 1.846000 bbls. (Grind out: 40%-water; 60%-mud)

Recovered 250 ft. of water = 3.550000 bbls. (Chlorides: 35,000 Ppm)

Recovered 380 ft. of TOTAL FLUID = 5.396000 bbls.

Recovered      ft. of     

Recovered      ft. of     

Remarks     

Time Set Packer(s) 3:50 ~~A.M.~~ Time Started Off Bottom 7:30 ~~A.M.~~ Maximum Temperature 124°

Initial Hydrostatic Pressure      (A) 2009 P.S.I.

Initial Flow Period      Minutes 10 (B) 26 P.S.I. to (C) 63 P.S.I.

Initial Closed In Period      Minutes 30 (D) 988 P.S.I.

Final Flow Period      Minutes 60 (E) 67 P.S.I. to (F) 225 P.S.I.

Final Closed In Period      Minutes 120 (G) 979 P.S.I.

Final Hydrostatic Pressure      (H) 1995 P.S.I.

## **GENERAL INFORMATION**

### **Client Information:**

Company: MULL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

### **Site Information:**

Contact: KEVIN KESSLER

Phone: Fax: e-mail:

### **Well Information:**

Name: MUFFITT #2-29

Operator: MULL DRILLING CO INC

Location-Downhole: DST #1 4140 TO 4190

Location-Surface: S29/17S/28W LANE COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KEVIN KESSLER

Test Type: CONVENTIONAL

Job Number: D352

Test Unit: 2

Start Date: 2007/11/01

Start Time: 01:45:00

End Date: 2007/11/01

End Time: 10:00:00

Report Date: 2007/11/01

Prepared By: JOHN RIEDL

### **Remarks:**

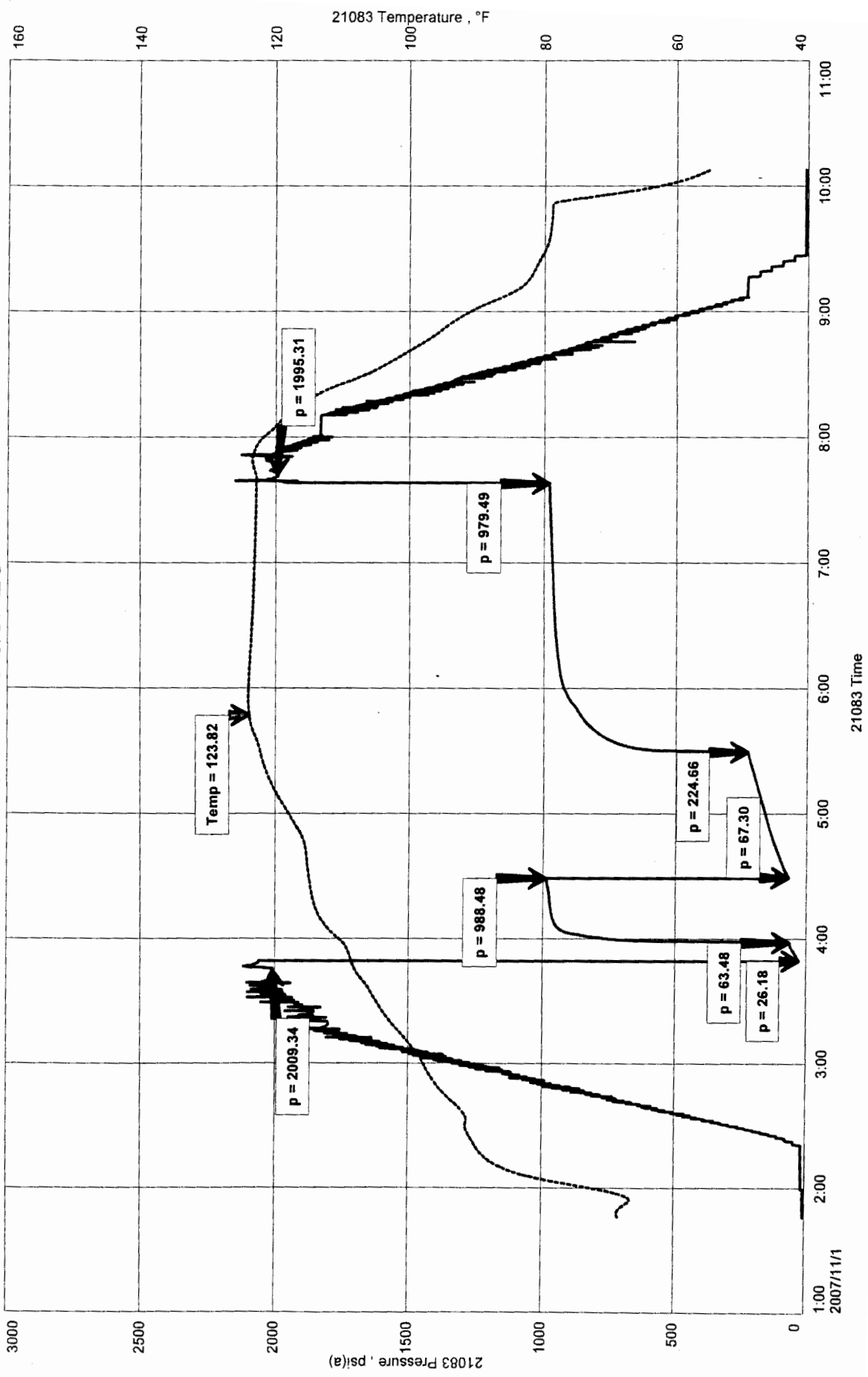
Qualified By: KEVIN KESSLER

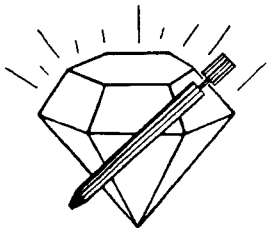
RECOVERY: 130' WATER CUT MUD  
250' WATER  
TOTAL FLUID REC. 380' IN DRILL PIPE

MULL DRILLING CO INC  
DST #1 4140 TO 4190  
Start Test Date: 2007/11/01  
Final Test Date: 2007/11/01

MUFFITT #2-29

Formation. LNU JTRN  
Job Number: D352





# DIAMOND TESTING

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STC 21083.D353

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Company Mull Drilling Co., Inc. Lease & Well No. Muffitt No. 2-29  
Elevation 2703 KB Formation Lansing/Kansas City 'L' Effective Pay -- Ft. Ticket No. J2156  
Date 11-01-07 Sec. 29 Twp. 17S Range 28W County        Lane        State Kansas  
Test Approved By Kevin L. Kessler Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 4,200 ft. to 4,240 ft. Total Depth 4,240 ft.

Packer Depth 4,195 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,200 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set        ft.

Top Recorder Depth (Inside) 4,203 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,237 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth        ft. Recorder Number        Cap.        psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 8.5 cc. Drill Pipe Length 4,180 ft. I.D. 3 1/2 in.

Chlorides 1,800 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 40 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong, 9 in., blow. Weak blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 20 mins. Weak blow back during shut-in.

Recovered 170 ft. of gas cut oil = 2.414000 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 30 @ 60°

Recovered 130 ft. of mud cut water = 1.846000 bbls. (Grind out: 20%-mud; 80%-water) Chlorides: 30,000 Ppm

Recovered 300 ft. of TOTAL FLUID = 4.260000 bbls.

Recovered        ft. of       

Recovered        ft. of       

Remarks       

Time Set Packer(s) 11:30 ~~P.M.~~ <sup>XXM.</sup> Time Started Off Bottom 3:10 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 124°

Initial Hydrostatic Pressure        (A) 2048 P.S.I.

Initial Flow Period 10 Minutes (B) 25 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period 30 Minutes (D) 789 P.S.I.

Final Flow Period 60 Minutes (E) 47 P.S.I. to (F) 142 P.S.I.

Final Closed In Period 120 Minutes (G) 776 P.S.I.

Final Hydrostatic Pressure        (H) 2036 P.S.I.

## **GENERAL INFORMATION**

### **Client Information:**

Company: MULL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

### **Site Information:**

Contact: KEVIN KESSLER

Phone: Fax: e-mail:

### **Well Information:**

Name: MUFFITT #2-29

Operator: MULL DRILLING CO INC

Location-Downhole: DST #2 4200 TO 4240

Location-Surface: S29/17S/28W LANE COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KEVIN KESSLER

Test Type: CONVENTIONAL

Job Number: D353

Test Unit: 2

Start Date: 2007/11/01

Start Time: 21:30:00

End Date: 2007/11/02

End Time: 05:00:00

Report Date: 2007/11/02

Prepared By: JOHN RIEDL

### **Remarks:**

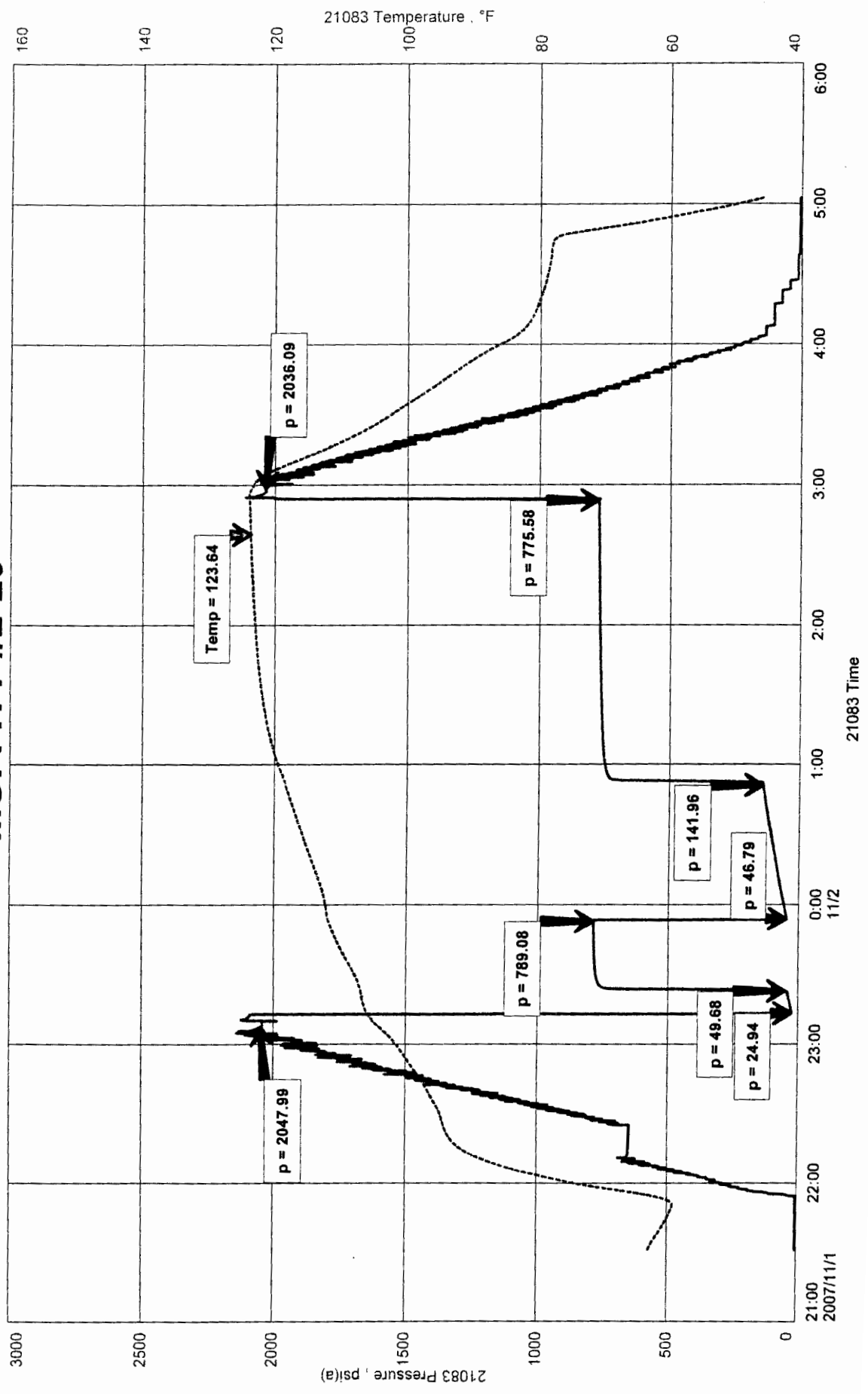
Qualified By: KEVIN KESSLER

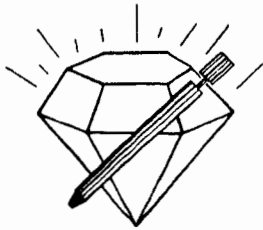
RECOVERY: 170' GAS CUT OIL  
130' MUD CUT WATER  
TOTAL FLUID REC. 300' IN DRILL PIPE

MULL DRILLING CO INC  
DST #2 4200 TO 4240  
Start Test Date: 2007/11/01  
Final Test Date: 2007/11/02

Formation: LKC L  
Job Number: D353

# MUFFITT #2-29





# DIAMOND TESTING

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STC 21083.D354

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Company Mull Drilling Co., Inc. Lease & Well No. Muffitt No. 2-29

Elevation 2703 KB Formation Marmaton Effective Pay -- Ft. Ticket No. J2157

Date 11-03-07 Sec. 29 Twp. 17S Range 28W County      Lane      State Kansas

Test Approved By Kevin L. Kessler Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 4,250 ft. to 4,340 ft. Total Depth 4,340 ft.

Packer Depth 4,245 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,250 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,253 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,337 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 52 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 4,230 ft. I.D. 3 1/2 in.

Chlorides 1,800 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 90 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak, 1/2 in., blow.

2nd Open: Weak, surface blow. Dead in 15 mins.

Recovered 5 ft. of drilling mud = .071000 bbls.

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Remarks     

Time Set Packer(s) 12:00 ~~PM~~ <sup>A.M.</sup> Time Started Off Bottom 2:55 ~~PM~~ <sup>A.M.</sup> Maximum Temperature 114°

Initial Hydrostatic Pressure      (A) 2116 P.S.I.

Initial Flow Period 10 Minutes (B) 21 P.S.I. to (C) 23 P.S.I.

Initial Closed In Period 30 Minutes (D) 92 P.S.I.

Final Flow Period 45 Minutes (E) 22 P.S.I. to (F) 23 P.S.I.

Final Closed In Period 90 Minutes (G) 123 P.S.I.

Final Hydrostatic Pressure      (H) 2065 P.S.I.

## **GENERAL INFORMATION**

### **Client Information:**

Company: MULL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

### **Site Information:**

Contact: KEVIN KESSLER

Phone: Fax: e-mail:

### **Well Information:**

Name: MUFFITT #2-29

Operator: MULL DRILLING CO INC

Location-Downhole: DST #3 4250 TO 4340

Location-Surface: S29/17S/28W LANE COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KEVIN KESSLER

Test Type: CONVENTIONAL

Job Number: D354

Test Unit: 2

Start Date: 2007/11/02

Start Time: 22:20:00

End Date: 2007/11/03

End Time: 04:50:00

Report Date: 2007/11/03

Prepared By: JOHN RIEDL

### **Remarks:**

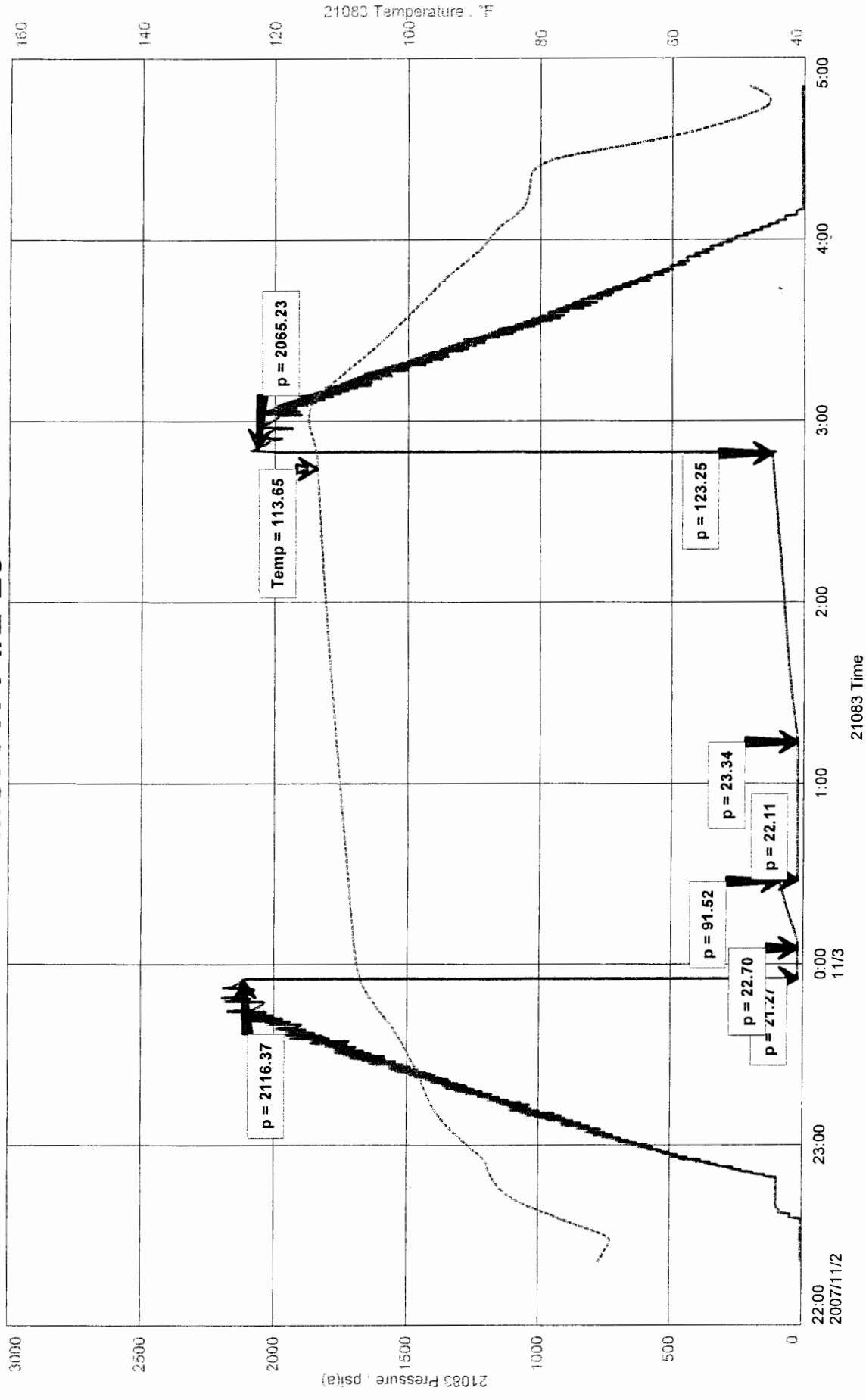
Qualified By: KEVIN KESSLER

RECOVERY: 10' DRILLING MUD



DST #3 4250 TO 4340  
 Start Test Date: 2007/11/02  
 Final Test Date: 2007/11/03

# MUFFITT #2-29





## DIAMOND TESTING

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Company Mull Drilling Co., Inc. Lease & Well No. Muffitt No. 2-29  
Elevation 2703 KB Formation Marmaton/Fort Scott Effective Pay -- Ft. Ticket No. J2158  
Date 11-03-07 Sec. 29 Twp. 17S Range 28W County      Lane      State Kansas  
Test Approved By Kevin L. Kessler Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 4,350 ft. to 4,440 ft. Total Depth 4,440 ft.

Packer Depth 4,345 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,350 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,353 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,437 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 54 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.2 Water Loss 8.8 cc. Drill Pipe Length 4,330 ft. I.D. 3 1/2 in.

Chlorides 2,800 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 90 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow 1st Open: Weak, 1/2 in., blow.

2nd Open: Weak, surface blow. Dead in 23 mins.

Recovered 8 ft. of oil specked mud = .113600 bbls.

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Remarks     

Time Set Packer(s) 11:40 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 1:50 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 112°

Initial Hydrostatic Pressure ..... (A) 2111 P.S.I.

Initial Flow Period ..... Minutes 10 (B) 21 P.S.I. to (C) 24 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 152 P.S.I.

Final Flow Period ..... Minutes 30 (E) 25 P.S.I. to (F) 26 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 143 P.S.I.

Final Hydrostatic Pressure ..... (H) 2074 P.S.I.

## **GENERAL INFORMATION**

### **Client Information:**

Company: MUL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

### **Site Information:**

Contact: KEVIN KESSLER

Phone: Fax: e-mail:

### **Well Information:**

Name: MUFFITT #2-29

Operator: MULL DRILLING CO INC

Location-Downhole: DST #4 4350 TO 4440

Location-Surface: S29/17S/28W LANE COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KEVIN KESSLER

Test Type: CONVENTIONAL

Job Number: D355

Test Unit: 2

Start Date: 2007/11/03

Start Time: 21:50:00

End Date: 2007/11/04

End Time: 04:10:00

Report Date: 2007/11/04

Prepared By: JOHN RIEDL

### **Remarks:**

Qualified By: KEVIN KESSLER

RECOVERY: 8' OIL SPECKED MUD

# MUFFITT #2-29

