

15-165-21816

31-165-16w

## DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21108.D 456

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Company L. D. Drilling, Inc. Lease & Well No. Thielenhaus No. 1

Elevation 2001KB Formation Topeka Effective Pay -- Ft. Ticket No. J2060

Date 4-22-07 Sec. 31 Twp. 16S Range 16W County Rush State Kansas

Test Approved By Kim Shoemaker Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 2,988 ft. to 3,050 ft. Total Depth 3,050 ft.

Packer Depth 2,983 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,988 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 2,991 ft. Recorder Number 21108 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,047 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor Southwind Drilling, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 64 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 10.0 cc. Drill Pipe Length 2,968 ft. I.D. 3 1/2 in.

Chlorides 5,300 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 62 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: Good, 6 in., blow.

2nd Open: Weak, 2 in., blow.

Recovered 165 ft. of gas in pipe

Recovered 15 ft. of gas cut mud = .213000 bbls. (Grind out: 10%-gas; 90%-mud)

Recovered 15 ft. of TOTAL FLUID = .213000 bbls.

Recovered -- ft. of

Recovered -- ft. of

Remarks

Time Set Packer(s) 4:15 ~~XXM.~~ P.M. Time Started Off Bottom 6:15 ~~XXM.~~ P.M. Maximum Temperature 96°

Initial Hydrostatic Pressure ..... (A) 1435 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 32 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 251 P.S.I.

Final Flow Period ..... Minutes 30 (E) 34 P.S.I. to (F) 36 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 227 P.S.I.

Final Hydrostatic Pressure ..... (H) 1393 P.S.I.

## **GENERAL INFORMATION**

### **Client Information:**

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### **Site Information:**

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

### **Well Information:**

Name: THIELENHAUS #1

Operator: L D DRILLING INC

Location-Downhole: DST #1 2988 TO 3050

Location-Surface: S31/16S/16W RUSH COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number: D456

Test Unit: 2

Start Date: 2007/04/22 Start Time: 14:25:00

End Date: 2007/04/22 End Time: 20:15:00

Report Date: 2007/04/22 Prepared By: JOHN RIEDL

Qualified By: KIM SHOEMAKER

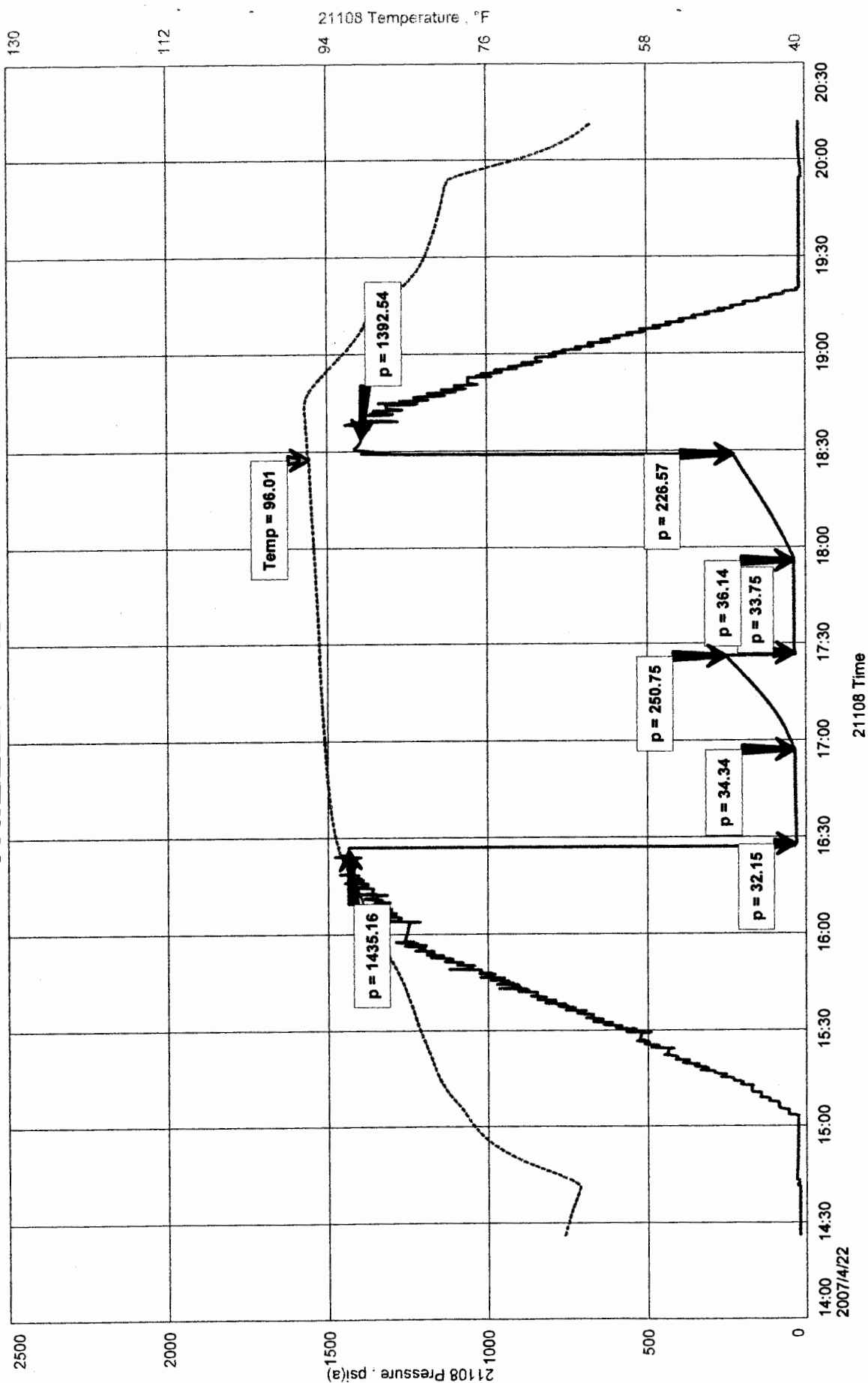
### **Remarks:**

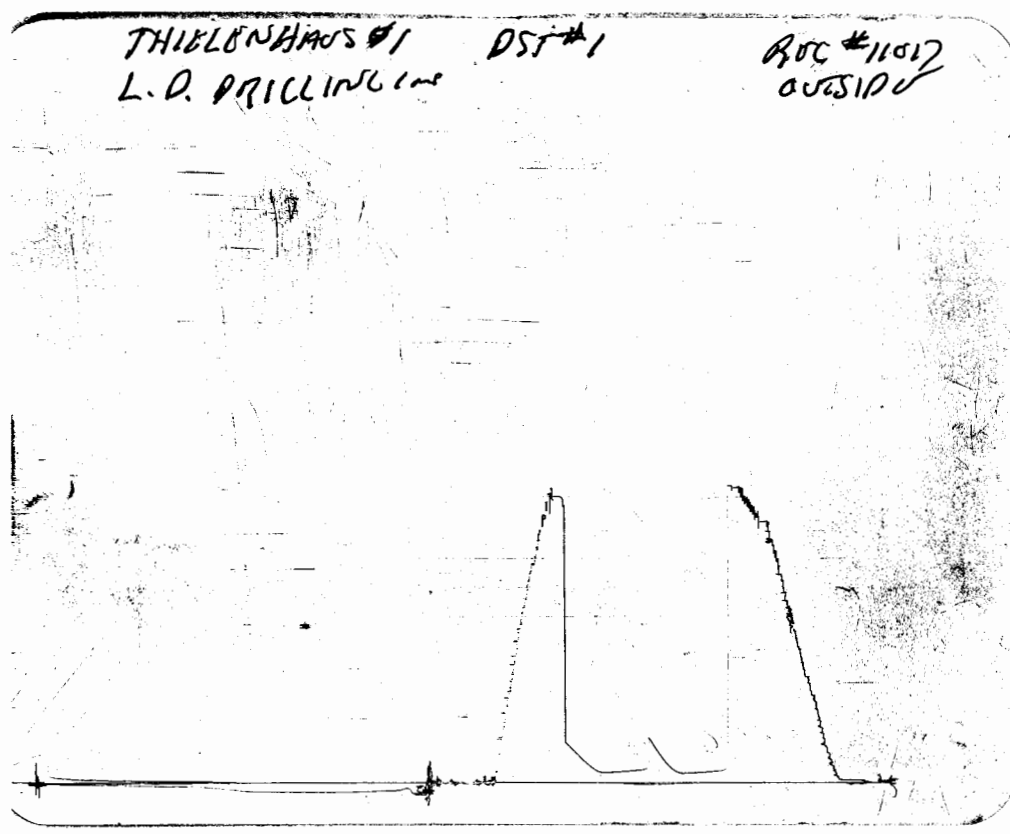
RECOVERY: 165' GAS IN PIPE  
15' GAS CUT MUD

THIELENHAUS #1  
Formation: TOPEKA  
Job Number: D456

L D DRILLING INC  
DST #1 2988 TO 3050  
Start Test Date: 2007/04/22  
Final Test Date: 2007/04/22

# THIELENHAUS #1





This is an actual photograph of recorder chart.

| POINT | PRESSURE                          |      | Elec.<br>Office<br>Reading |     |
|-------|-----------------------------------|------|----------------------------|-----|
|       | Field<br>Reading                  |      |                            |     |
| (A)   | Initial Hydrostatic Mud .....     | 1435 | 1435                       | PSI |
| (B)   | First Initial Flow Pressure.....  | 32   | 32                         | PSI |
| (C)   | First Final Flow Pressure .....   | 34   | 34                         | PSI |
| (D)   | Initial Closed-in Pressure .....  | 251  | 251                        | PSI |
| (E)   | Second Initial Flow Pressure..... | 34   | 34                         | PSI |
| (F)   | Second Final Flow Pressure.....   | 36   | 36                         | PSI |
| (G)   | Final Closed-in Pressure.....     | 227  | 227                        | PSI |
| (H)   | Final Hydrostatic Mud.....        | 1393 | 1393                       | PSI |



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STC 21108.D457

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Company L. D. Drilling, Inc. Lease & Well No. Thielenhaus No. 1  
Elevation 2001KB Formation Lansing/Kansas City "G" Effective Pay -- Ft. Ticket No. J2061  
Date 4-23-07 Sec. 31 Twp. 16S Range 16W County Rush State Kansas  
Test Approved By Kim Shoemaker Diamond Representative John C. Riedl  
Formation Test No. 2 Interval Tested from 3,365 ft. to 3,413 ft. Total Depth 3,413 ft.  
Packer Depth 3,360 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
Packer Depth 3,365 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
Depth of Selective Zone Set -- ft.  
Top Recorder Depth (Inside) 3,368 ft. Recorder Number 21108 Cap. 5,000 psi  
Bottom Recorder Depth (Outside) 3,410 ft. Recorder Number 11017 Cap. 4,000 psi  
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi  
Drilling Contractor Southwind Drilling, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.  
Mud Type Chemical Viscosity 61 Weight Pipe Length -- ft. I.D. -- in.  
Weight 9.1 Water Loss 9.0 cc. Drill Pipe Length 3,345 ft. I.D. 3 1/2 in.  
Chlorides 7,100 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
Jars: Make Bowen Serial Number Not Run Anchor Length 48 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, surface blow throughout.  
2nd Open: N/A

Recovered 15 ft. of drilling mud = .213000 bbls.

Recovered -- ft. of

Recovered -- ft. of

Recovered -- ft. of

Recovered -- ft. of

Remarks Did not run a 2nd Open or 2nd Shut-in.

Time Set Packer(s) 12:35 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 1:35 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 101°  
Initial Hydrostatic Pressure ..... (A) 1652 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 33 P.S.I. to (C) 37 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 1009 P.S.I.  
Final Flow Period ..... Minutes -- (E) -- P.S.I. to (F) -- P.S.I.  
Final Closed In Period ..... Minutes -- (G) -- P.S.I.  
Final Hydrostatic Pressure ..... (H) 1633 P.S.I.

## **GENERAL INFORMATION**

### **Client Information:**

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### **Site Information:**

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

### **Well Information:**

Name: THIELENHAUS #1

Operator: L D DRILLING INC

Location-Downhole: DST #2 3365 TO 3413

Location-Surface: S31/16S/16W RUSH COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Job Number: D457

Test Unit: 2

Start Date: 2007/04/23

Start Time: 23:20:00

End Date: 2007/04/24

End Time: 03:10:00

Report Date: 2007/04/24

Prepared By: JOHN RIEDL

### **Remarks:**

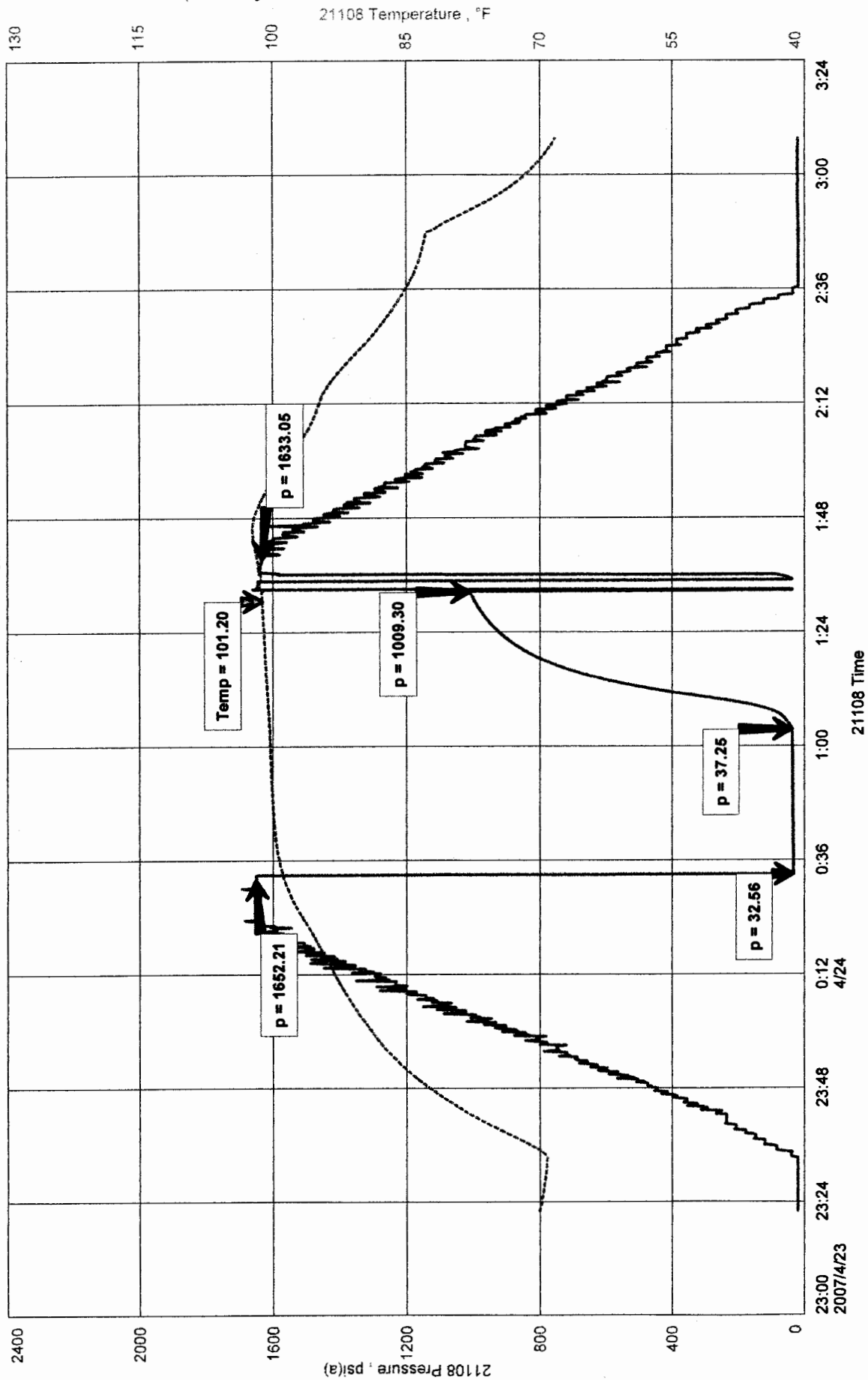
Qualified By: KIM SHOEMAKER

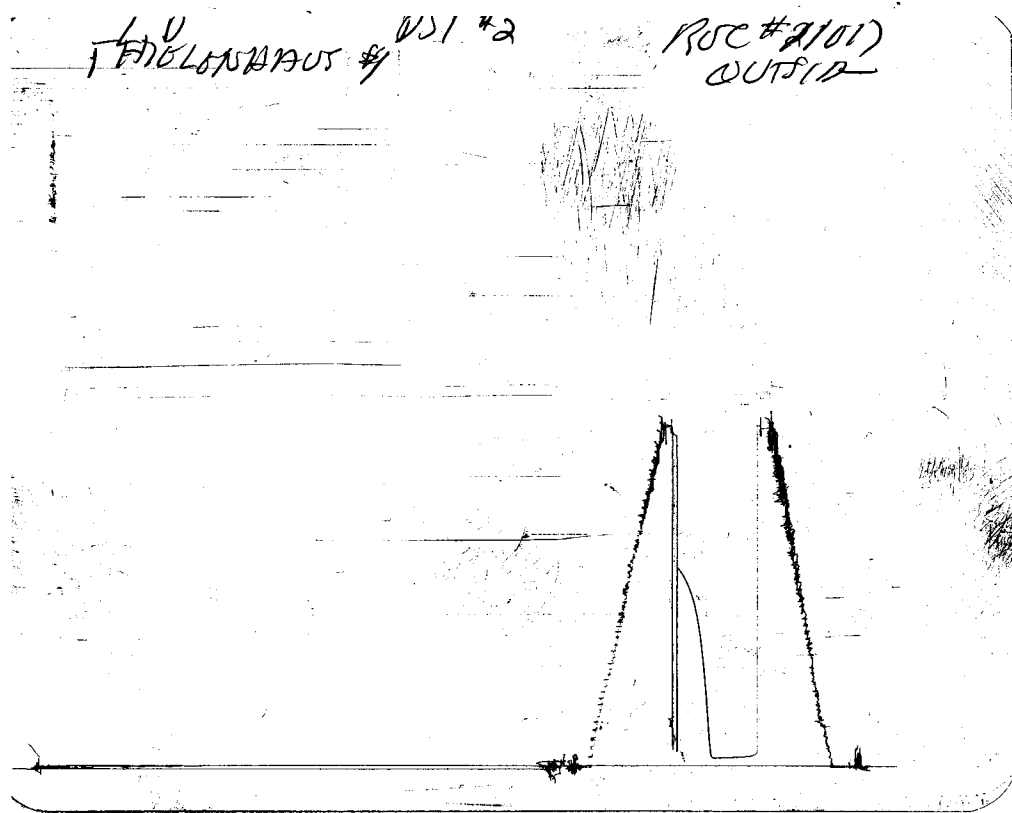
RECOVERY: 15' DRILLING MUD

L D DRILLING INC  
DST #2 3365 TO 3413  
Start Test Date: 2007/04/23  
Final Test Date: 2007/04/24

THIELENHAUS #1  
Formation: L/KC "G"  
Job Number: D457

## THIELENHAUS #1





This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE         |      | Elec.<br>Office<br>Reading |
|----------------------------------------|------------------|------|----------------------------|
|                                        | Field<br>Reading |      |                            |
| (A) Initial Hydrostatic Mud .....      | 1652             | 1652 | PSI                        |
| (B) First Initial Flow Pressure.....   | 33               | 33   | PSI                        |
| (C) First Final Flow Pressure .....    | 37               | 37   | PSI                        |
| (D) Initial Closed-in Pressure .....   | 1009             | 1009 | PSI                        |
| (E) Second Initial Flow Pressure ..... | --               | --   | PSI                        |
| (F) Second Final Flow Pressure.....    | --               | --   | PSI                        |
| (G) Final Closed-in Pressure.....      | --               | --   | PSI                        |
| (H) Final Hydrostatic Mud .....        | 1633             | 1633 | PSI                        |



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Company L. D. Drilling, Inc. Lease & Well No. Thielenhaus No. 1  
Elevation 2001KB Formation Lansing/Kansas City Effective Pay -- Ft. Ticket No. J2062  
Date 4-24-07 Sec. 31 Twp. 16S Range 16W County Rush State Kansas  
Test Approved By Kim Shoemaker Diamond Representative John C. Riedl  
Formation Test No. 3 Interval Tested from 3,439 ft. to 3,515 ft. Total Depth 3,515 ft.  
Packer Depth 3,434 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
Packer Depth 3,439 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
Depth of Selective Zone Set -- ft.  
Top Recorder Depth (Inside) 3,442 ft. Recorder Number 21108 Cap. 5,000 psi  
Bottom Recorder Depth (Outside) 3,512 ft. Recorder Number 11017 Cap. 4,000 psi  
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi  
Drilling Contractor Southwind Drilling, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.  
Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.  
Weight 9.2 Water Loss 10.8 cc. Drill Pipe Length 3,419 ft. I.D. 3 1/2 in.  
Chlorides 7,500 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
Jars: Make Bowen Serial Number Not Run Anchor Length 76 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 blow. Dead in 20 mins.  
2nd Open: No blow.

Recovered 10 ft. of very slightly oil cut mud = .142000 bbls. (Grind out: 2%-oil; 98%-mud)

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 4:45 ~~XXM.~~ P.M. Time Started Off Bottom 6:45 ~~XXM.~~ P.M. Maximum Temperature 103°  
Initial Hydrostatic Pressure ..... (A) 1700 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 31 P.S.I. to (C) 32 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 57 P.S.I.  
Final Flow Period ..... Minutes 30 (E) 32 P.S.I. to (F) 34 P.S.I.  
Final Closed In Period ..... Minutes 30 (G) 47 P.S.I.  
Final Hydrostatic Pressure ..... (H) 1653 P.S.I.

## **GENERAL INFORMATION**

### **Client Information:**

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### **Site Information:**

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

### **Well Information:**

Name: THIELENHAUS #1

Operator: L D DRILLING INC

Location-Downhole: DST #3 3439 TO 3515

Location-Surface: S31/16S/16W RUSH COUNTY

### **Test Information:**

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Job Number: D458

Test Unit: 2

Start Date: 2007/04/24

Start Time: 15:00:00

End Date: 2007/04/24

End Time: 20:40:00

Report Date: 2007/04/24

Prepared By: JOHN RIEDL

### **Remarks:**

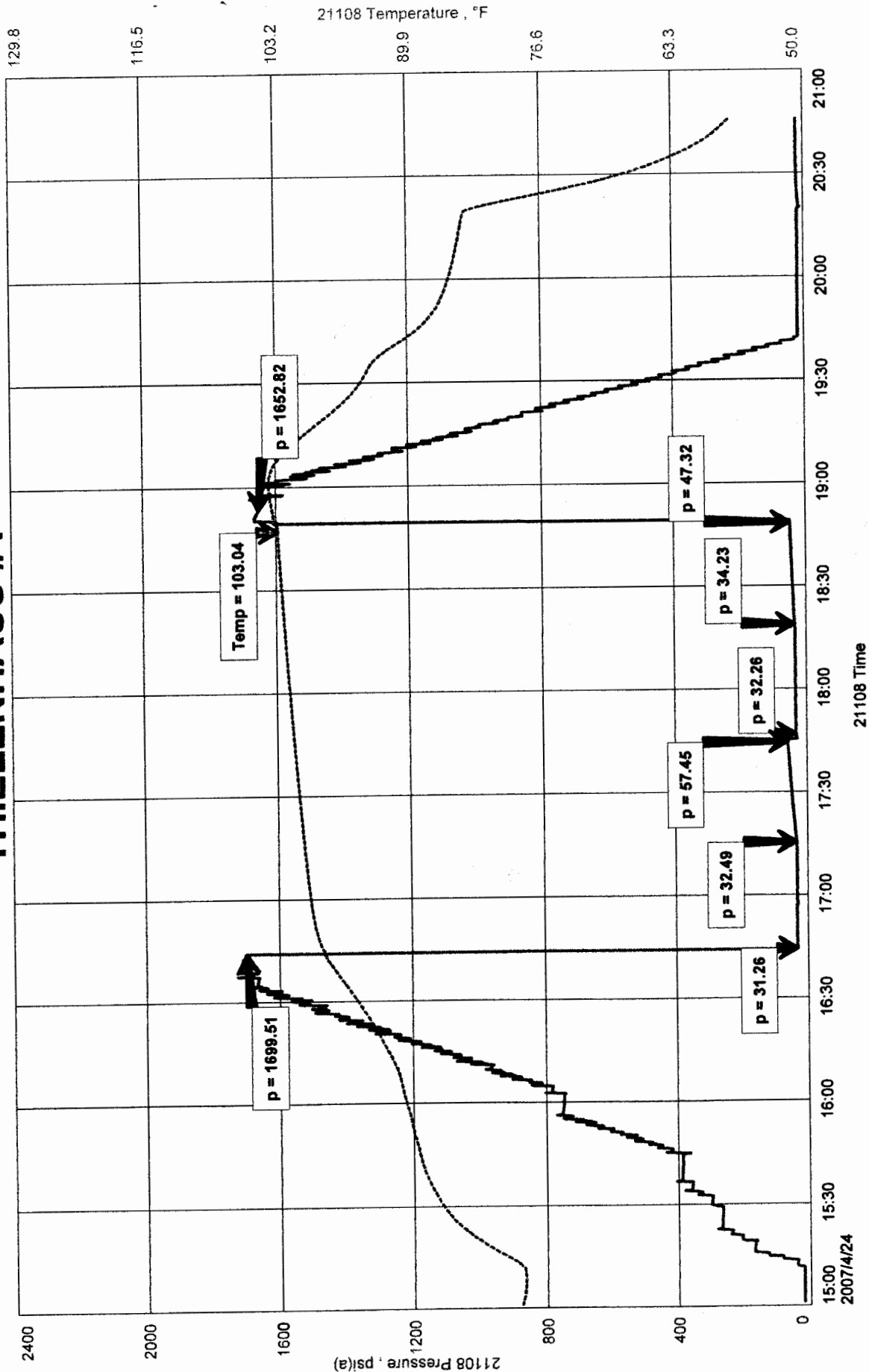
Qualified By: KIM SHOEMAKER

RECOVERY: 10' VSL OIL CUT MUD

THIELENHAUS #1  
Formation: LKC  
Job Number: D458

L D DRILLING INC  
DST #3 3439 TO 3515  
Start Test Date: 2007/04/24  
Final Test Date: 2007/04/24

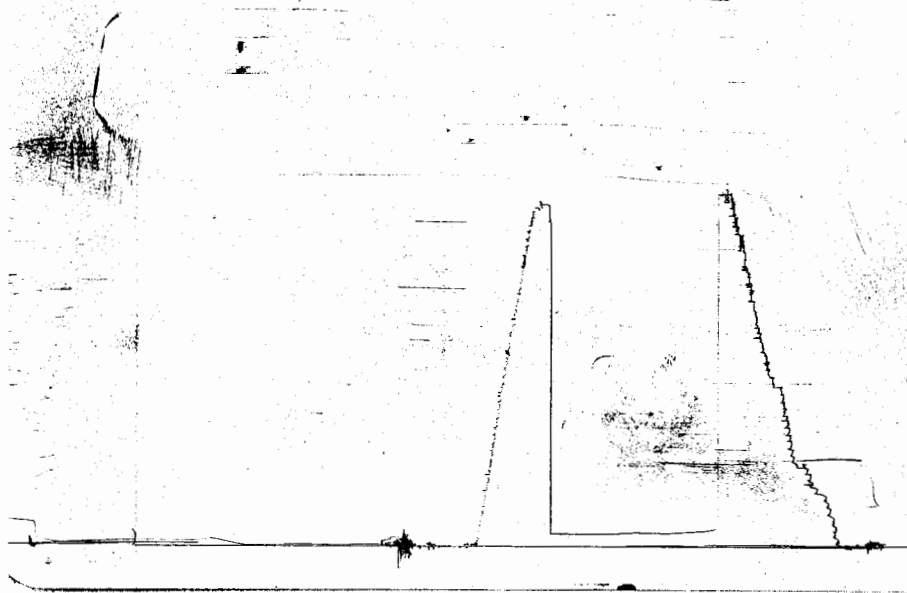
# THIELENHAUS #1



L. O.  
THIRLWALLAUS#1

DST#3

BOC 11017  
OUTSIDE



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE Elec. |                |
|----------------------------------------|----------------|----------------|
|                                        | Field Reading  | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 1700           | 1700           |
| (B) First Initial Flow Pressure.....   | 31             | 31             |
| (C) First Final Flow Pressure .....    | 32             | 32             |
| (D) Initial Closed-in Pressure .....   | 57             | 57             |
| (E) Second Initial Flow Pressure ..... | 32             | 32             |
| (F) Second Final Flow Pressure.....    | 34             | 34             |
| (G) Final Closed-in Pressure.....      | 47             | 47             |
| (H) Final Hydrostatic Mud .....        | 1653           | 1653           |