



# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 21108.D 462

Company L. D. Drilling, Inc. Lease & Well No. Loretta No. 3  
Elevation 1916 KB Formation Conglomerate Effective Pay -- Ft. Ticket No. J2265  
Date 7-27-08 Sec. 36 Twp. 20S Range 14W County Barton State Kansas  
Test Approved By Roger L. Fisher Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,528 ft. to 3,550 ft. Total Depth 3,550 ft.  
Packer Depth 3,523 ft. Size 63/4 in. Packer Depth -- ft. Size -- in.  
Packer Depth 3,528 ft. Size 63/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,531 ft. Recorder Number 21108 Cap. 5,000 psi  
Bottom Recorder Depth (Outside) 3,547 ft. Recorder Number 11017 Cap. 4,000 psi  
Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.  
Weight 9.2 Water Loss 9.6 cc. Drill Pipe Length 3,388 ft. I.D. 3 1/2 in.  
Chlorides 5,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 22 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 2 mins.  
2nd Open: N/A

Recovered 10 ft. of drilling mud = .049200 bbls.

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Remarks         

Time Set Packer(s) 11:40 ~~AM.~~ AM. Time Started Off Bottom 12:40 ~~PM.~~ PM. Maximum Temperature 102°

Initial Hydrostatic Pressure ..... (A) 1727 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 17 P.S.I. to (C) 18 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 27 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) 1687 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: ROGER FISHER

Phone: Fax: e-mail:

### Well Information:

Name: LORETTA #3

Operator: L D DRILLING INC

Location-Downhole: DT#2 3526 TO 3562

Location-Surface: S36/20S/14W BARTON COUNTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: ROGER FISHER

Test Type: CONVENTIONAL

Job Number: D463

Test Unit: 2

Start Date: 2008/07/27

Start Time: 21:30:00

End Date: 2008/07/28

End Time: 02:30:00

Report Date: 2008/07/28

Prepared By: JOHN RIEDL

### Remarks:

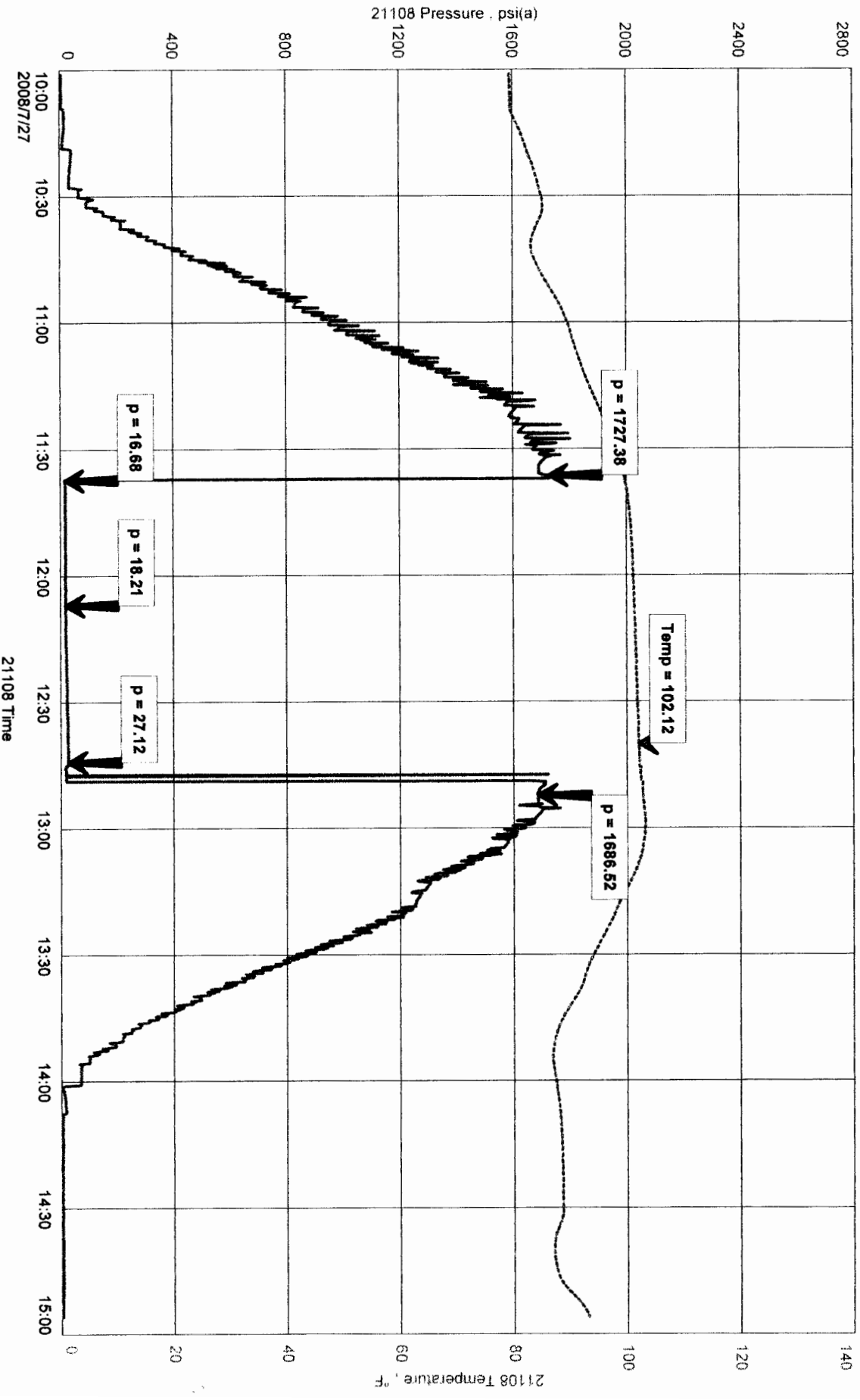
Qualified By: ROGER FISHER

10' OIL SPECKED MUD

L D DRILLING INC  
DST#3 3528 TO 3550  
Start Test Date: 2008/07/27  
Final Test Date: 2008/07/17

# LORETTA #3

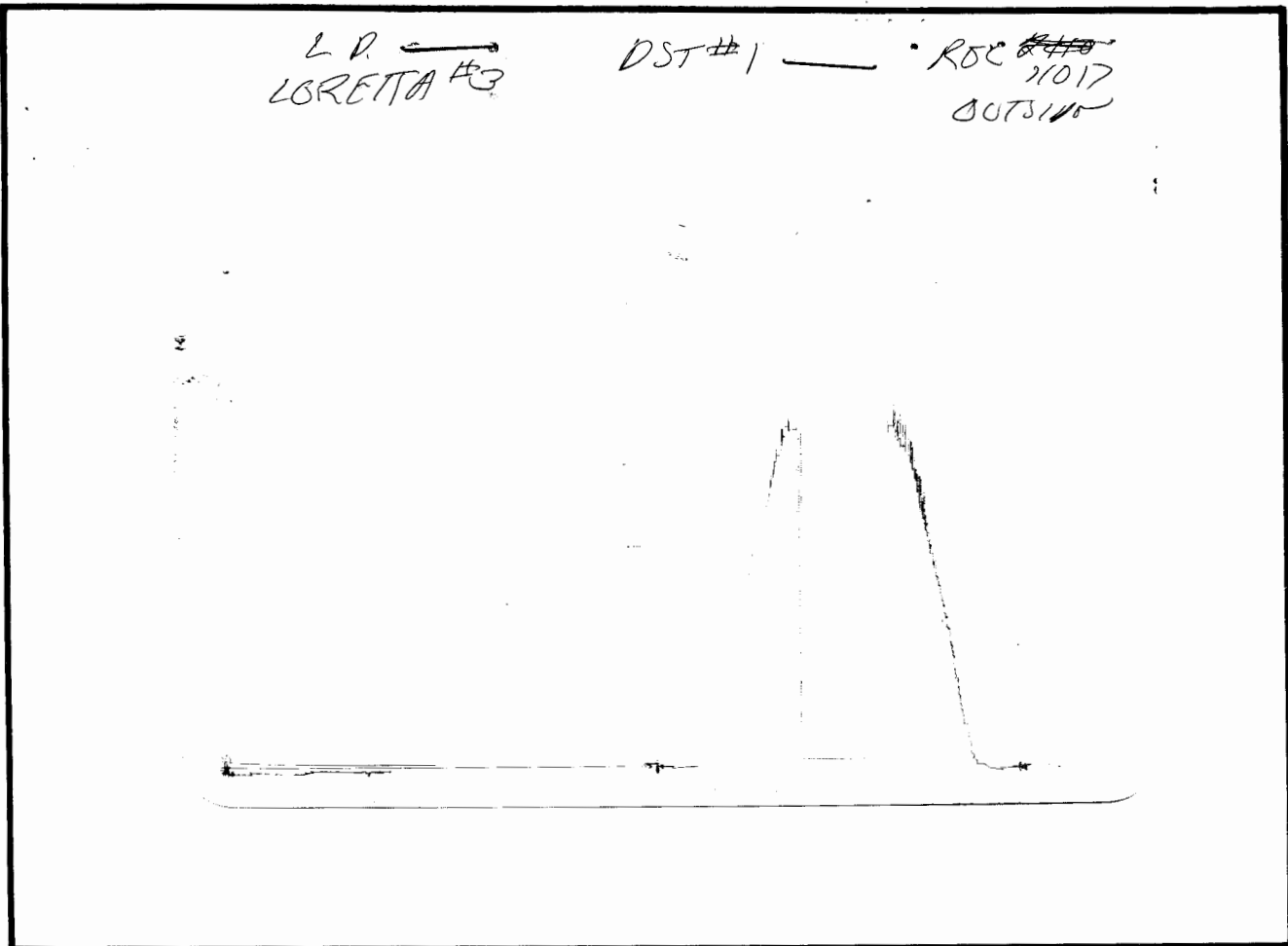
LORETTA #3  
Formation: CONGLOMERATE  
Job Number: D462



L.P. →  
LORETTA #3

DST #1

RSC #440  
21017  
003110



This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading	PSI
	Field Reading			
(A) Initial Hydrostatic Mud .....	1727		1727	PSI
(B) First Initial Flow Pressure .....	17		17	PSI
(C) First Final Flow Pressure .....	18		18	PSI
(D) Initial Closed-in Pressure .....	27		27	PSI
(E) Second Initial Flow Pressure .....	--		--	PSI
(F) Second Final Flow Pressure .....	--		--	PSI
(G) Final Closed-in Pressure .....	--		--	PSI
(H) Final Hydrostatic Mud .....	1687		1687	PSI



# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 21108.D 463

Company L. D. Drilling, Inc. Lease & Well No. Loretta No. 3  
Elevation 1916 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. J2266  
Date 7-27-08 Sec. 36 Twp. 20S Range 14W County Barton State Kansas  
Test Approved By Roger L. Fisher Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,526 ft. to 3,562 ft. Total Depth 3,562 ft.  
Packer Depth 3,521 ft. Size 63/4 in. Packer Depth -- ft. Size -- in.  
Packer Depth 3,526 ft. Size 63/4 in. Packer Depth -- ft. Size -- in.  
Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,529 ft. Recorder Number 21108 Cap. 5,000 psi  
Bottom Recorder Depth (Outside) 3,559 ft. Recorder Number 11017 Cap. 4,000 psi  
Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.  
Weight 9.2 Water Loss 9.6 cc. Drill Pipe Length 3,386 ft. I.D. 3 1/2 in.  
Chlorides 5,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 36 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 5 mins.  
2nd Open: No blow.

Recovered 10 ft. of oil specked mud = .049200 bbls.  
Recovered          ft. of           
Recovered          ft. of           
Recovered          ft. of           
Recovered          ft. of         

Remarks         

Time Set Packer(s) 10:55 ~~XXX~~ P.M. Time Started Off Bottom 12:55 ~~XXX~~ A.M. Maximum Temperature 101°  
Initial Hydrostatic Pressure          (A) 1701 P.S.I.  
Initial Flow Period          Minutes 30 (B) 19 P.S.I. to (C) 20 P.S.I.  
Initial Closed In Period          Minutes 30 (D) 35 P.S.I.  
Final Flow Period          Minutes 30 (E) 21 P.S.I. to (F) 22 P.S.I.  
Final Closed In Period          Minutes 30 (G) 28 P.S.I.  
Final Hydrostatic Pressure          (H) 1679 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: ROGER FISHER

Phone: Fax: e-mail:

### Well Information:

Name: LORETTA #3

Operator: L D DRILLING INC

Location-Downhole: DST#3 3528 TO 3550

Location-Surface: S36/20S/14W BARTON COUNTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: ROGER FISHER

Test Type: CONVENTIONAL Job Number: D462

Test Unit: 2

Start Date: 2008/07/27 Start Time: 10:00:00

End Date: 2008/07/17 End Time: 15:00:00

Report Date: 2008/07/27 Prepared By: JOHN RIEDL

Qualified By: ROGER FISHER

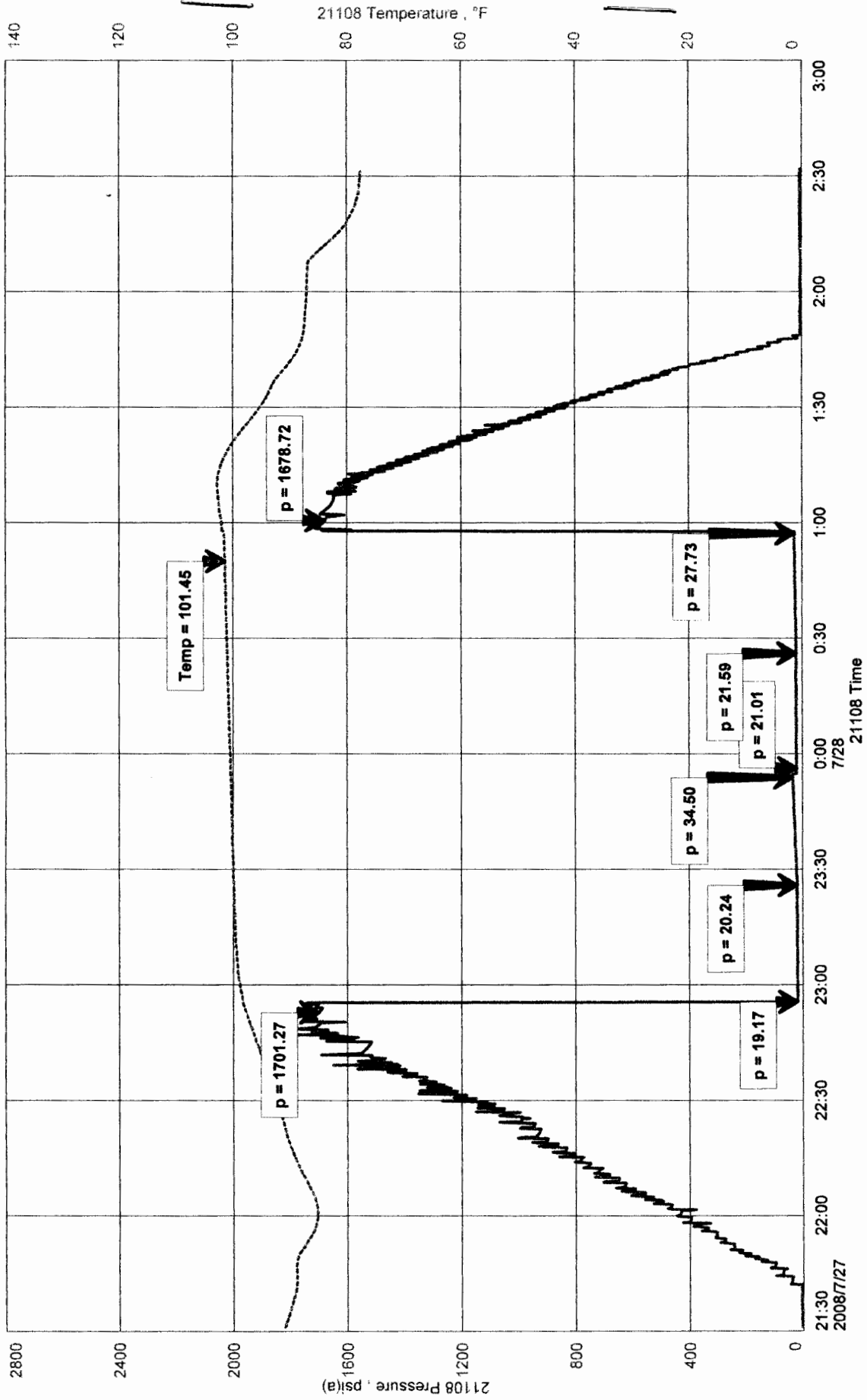
### Remarks:

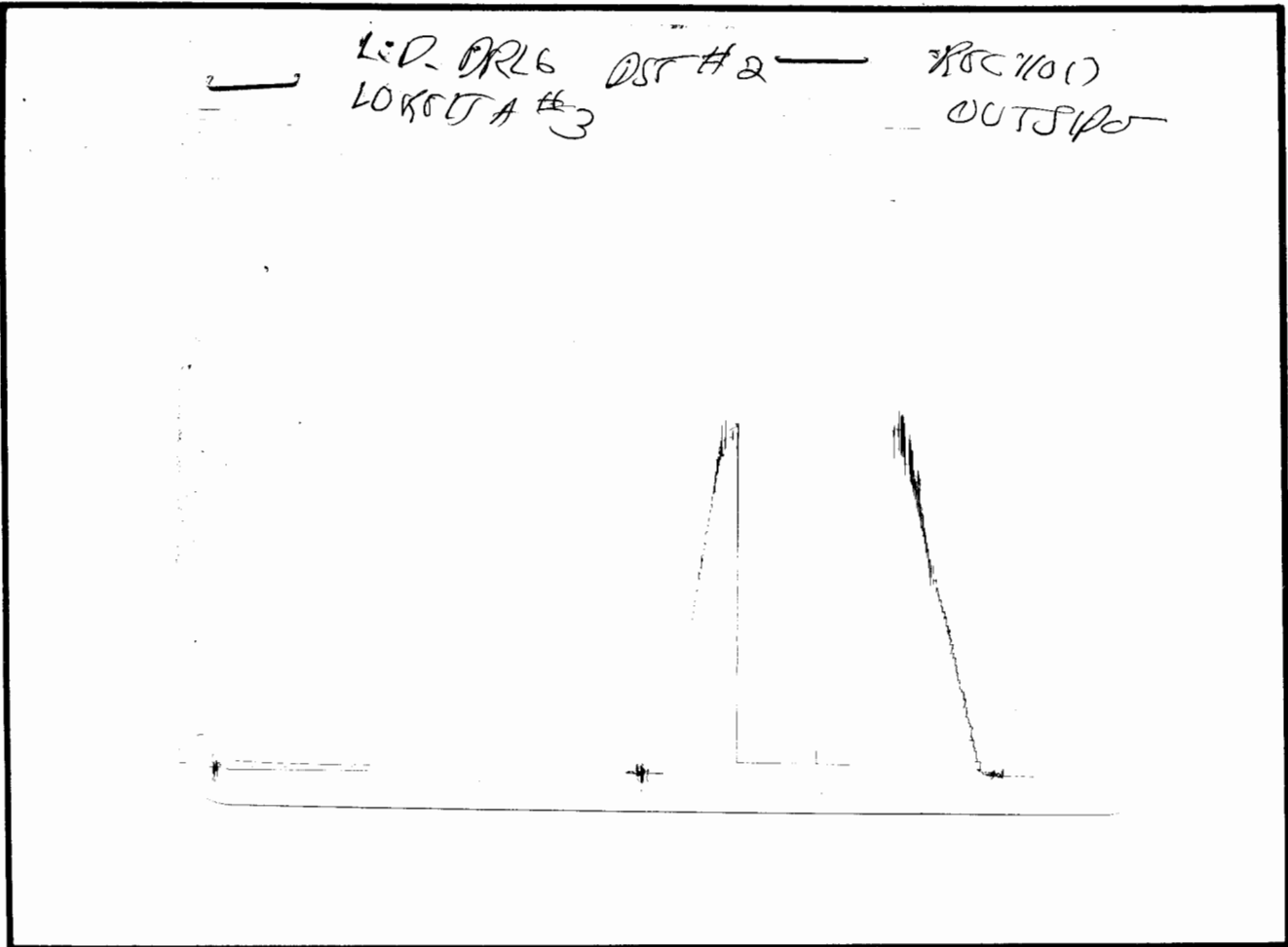
RECOVERY: 10' DRILLING MUD

LORETTA #3  
 Formation: ARBUCKLE  
 Job Number: D463

# LORETTA #3

L D DRILLING INC  
 DT#2 3526 TO 3562  
 Start Test Date: 2008/07/27  
 Final Test Date: 2008/07/28





This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1701	1701	PSI
(B) First Initial Flow Pressure	19	19	PSI
(C) First Final Flow Pressure	20	20	PSI
(D) Initial Closed-in Pressure	35	35	PSI
(E) Second Initial Flow Pressure	21	21	PSI
(F) Second Final Flow Pressure	22	22	PSI
(G) Final Closed-in Pressure	28	28	PSI
(H) Final Hydrostatic Mud	1679	1679	PSI



# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 21108.D 464

Company L. D. Drilling, Inc. Lease & Well No. Loretta No. 3  
Elevation 1916 KB Formation Simpson Effective Pay      Ft. Ticket No. J2267  
Date 7-28-08 Sec. 36 Twp. 20S Range 14W County Barton State Kansas  
Test Approved By Roger L. Fisher Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,524 ft. to 3,576 ft. Total Depth 3,576 ft.  
Packer Depth 3,519 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 3,524 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,527 ft. Recorder Number 21108 Cap. 5,000 psi  
Bottom Recorder Depth (Outside) 3,573 ft. Recorder Number 11017 Cap. 4,000 psi  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 55 Weight Pipe Length      ft. I.D.      in.  
Weight 9.1 Water Loss 10.8 cc. Drill Pipe Length 3,384 ft. I.D. 3 1/2 in.  
Chlorides 7,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 52 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, steady, 1/2 in., blow throughout.  
2nd Open: Fair blow, building throughout to 4 ins. at end.

Recovered 120 ft. of gas in pipe  
Recovered 130 ft. of gas & mud cut oil = .719200 bbls. (Grind out: 10%-gas; 40%-mud; 50%-oil)  
Recovered 130 ft. of TOTAL FLUID = .719200 bbls.  
Recovered      ft. of       
Recovered      ft. of     

Remarks     

Time Set Packer(s) 12:40 ~~AM~~ P.M. Time Started Off Bottom 4:25 ~~AM~~ P.M. Maximum Temperature 102°  
Initial Hydrostatic Pressure 1680 P.S.I. (A)  
Initial Flow Period 30 Minutes (B) 22 P.S.I. to (C) 43 P.S.I.  
Initial Closed In Period 30 Minutes (D) 980 P.S.I.  
Final Flow Period 45 Minutes (E) 51 P.S.I. to (F) 69 P.S.I.  
Final Closed In Period 60 Minutes (G) 1024 P.S.I.  
Final Hydrostatic Pressure 1661 P.S.I. (H)

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: ROGER FISHER

Phone: Fax: e-mail:

### Well Information:

Name: LORETTA #3

Operator: L D DRILLING INC

Location-Downhole: DST#3 3524 TO 3576

Location-Surface: S36/20S/14W BARTON COUNTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: ROGER FISHER

Test Type: CONVENTIONAL Job Number: D464

Test Unit: 2

Start Date: 2008/07/28 Start Time: 10:00:00

End Date: 2008/07/28 End Time: 16:40:00

Report Date: 2008/07/28 Prepared By: JOHN RIEDL

Qualified By: ROGER FISHER

### Remarks:

RECOVERY: 120' GAS IN PIPE  
130' GAS+OIL CUT MUD

LD DRILLING INC

DST#3 3524 TO 3576

Start Test Date: 2008/07/28

Final Test Date: 2008/07/28

LORETTA #3

Formation: SIMPSON

Job Number: D464

# LORETTA #3

