



15-009-25005

12-20s-14w

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21108.D395

Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Bush No. 5

Elevation 1879 KB Formation Lansing/Kansas City "A"-"F" Effective Pay -- Ft. Ticket No. J1998

Date 12-14-06 Sec. 12 Twp. 20S Range 14W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,221 ft. to 3,299 ft. Total Depth 3,299 ft.

Packer Depth 3,216 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,221 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,224 ft. Recorder Number 21108 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,296 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 52 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.8 Water Loss 8.0 cc. Drill Pipe Length 3,201 ft. I.D. 3 1/2 in.

Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IE in.

Jars: Make Bowen Serial Number Not Run Anchor Length 78 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 throughout.

2nd Open: Weak blow. Dead in 3 mins.

Recovered 15 ft. of slightly oil cut mud = .213000 bbls. (Grind out: 5%-oil; 95%-mud)

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 12:40 A.M. Time Started Off Bottom 1:45 A.M. Maximum Temperature 98°

Initial Hydrostatic Pressure (A) 1524 P.S.I.

Initial Flow Period Minutes 30 (B) 33 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period Minutes 30 (D) 55 P.S.I.

Final Flow Period Minutes 5 (E) 32 P.S.I. to (F) 32 P.S.I.

Final Closed In Period Minutes 0 (G) -- P.S.I.

Final Hydrostatic Pressure (H) 1519 P.S.I.

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

Well Information:

Name: BUSH #5

Operator: L D DRILLING INC

Location-Downhole: DST #1 3221 TO 3299

Location-Surface: S12/20S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D395

Test Unit: 2

Start Date: 2006/12/13

Start Time: 23:15:00

End Date: 2006/12/14

End Time: 03:30:00

Report Date: 2006/12/14

Prepared By: JOHN RIEDL

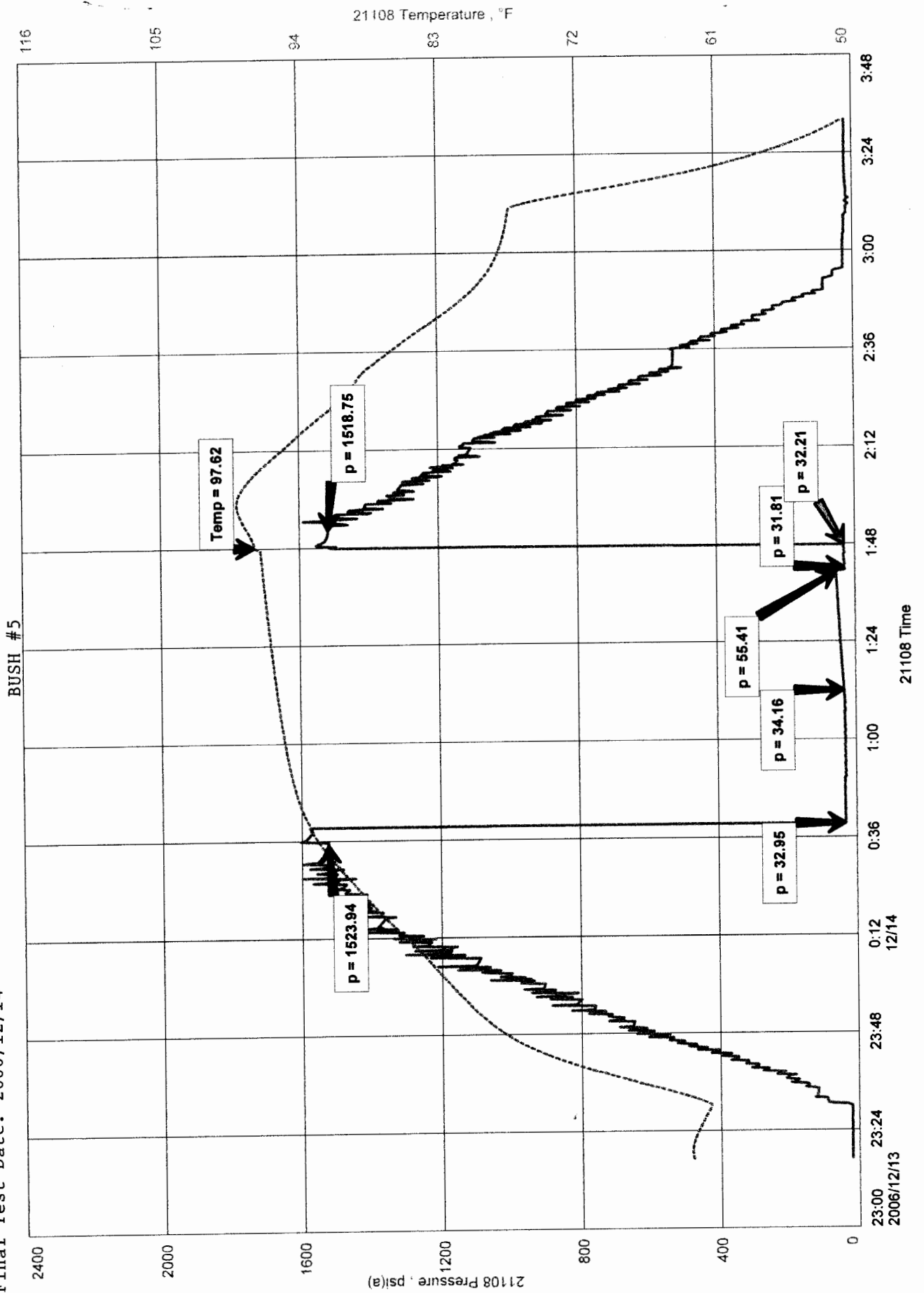
Remarks:

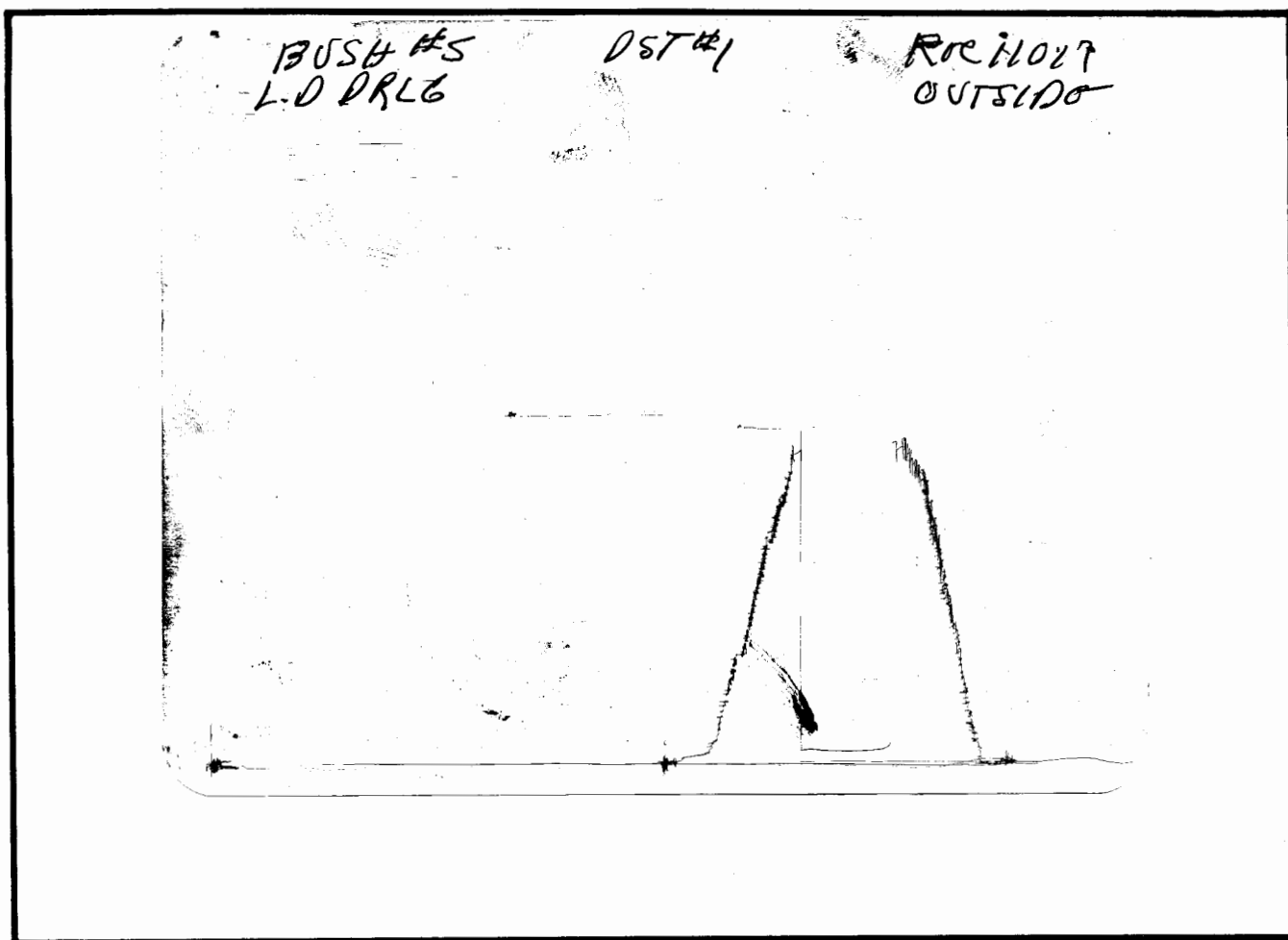
Qualified By: JIM MUSGROVE

RECOVERY: 15' SLOCM (5%OIL 95%MUD)

BUSH #5
 Formation: LKC "A"-F"
 Job Number: D395

L D DRILLING INC
 DST #1 3221 TO 3299
 Start Test Date: 2006/12/13
 Final Test Date: 2006/12/14





This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1524	1524	PSI
(B) First Initial Flow Pressure.....	33	33	PSI
(C) First Final Flow Pressure	34	34	PSI
(D) Initial Closed-in Pressure	55	55	PSI
(E) Second Initial Flow Pressure.....	32	32	PSI
(F) Second Final Flow Pressure.....	32	32	PSI
(G) Final Closed-in Pressure.....	--	--	PSI
(H) Final Hydrostatic Mud	1519	1519	PSI



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STC 21108.D396

Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Bush No. 5

Elevation 1879 KB Formation Lansing/Kansas City "H" Effective Pay -- Ft. Ticket No. J1999

Date 12-14-06 Sec. 12 Twp. 20S Range 14W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,346 ft. to 3,372 ft. Total Depth 3,372 ft.

Packer Depth 3,341 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,346 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,349 ft. Recorder Number 21108 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,369 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 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 9.0 cc. Drill Pipe Length 3,326 ft. I.D. 3 1/2 in.

Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 26 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.

1st Open: Strong blow. Off bottom of bucket immediately. Gas to surface in 9 mins. Strong blow back during shut-in.

2nd Open: Strong blow. Gas to surface throughout. Strong blow back during shut-in.

Recovered 1,530 ft. of clean gassy oil = 21.726000 bbls. (Gravity: 36 @ 60°)

Recovered 300 ft. of mud cut gassy oil = 4.260000 bbls. (Grind out: 20%-mud; 35%-gas; 45%-oil)

Recovered 1,830 ft. of TOTAL FLUID = 25.986000 bbls.

Recovered ft. of

Recovered ft. of

Remarks Gas initially guaged at 9,000 CF/D. Decreased down to 1,000 CF/D.

Sample taken. Gas burned.

Time Set Packer(s) 2:26 ~~AM~~ P.M. Time Started Off Bottom 5:26 ~~AM~~ P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 1602 P.S.I.

Initial Flow Period Minutes 45 (B) 102 P.S.I. to (C) 268 P.S.I.

Initial Closed In Period Minutes 45 (D) 457 P.S.I.

Final Flow Period Minutes 45 (E) 283 P.S.I. to (F) 368 P.S.I.

Final Closed In Period Minutes 45 (G) 457 P.S.I.

Final Hydrostatic Pressure (H) 1572 P.S.I.

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

Well Information:

Name: BUSH #5

Operator: L D DRILLING INC

Location-Downhole: DST #2 3346 TO 3372

Location-Surface: S12/20S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D396

Test Unit: 2

Start Date: 2006/12/14

Start Time: 13:05:00

End Date: 2006/12/14

End Time: 20:45:00

Report Date: 2006/12/14

Prepared By: JOHN RIEDL

Remarks:

Qualified By: JIM MUSGROVE

RECOVERY: 1530' CLEAN GASSY OIL

300' MCGO (20%MUD 35%GAS 45%OIL)

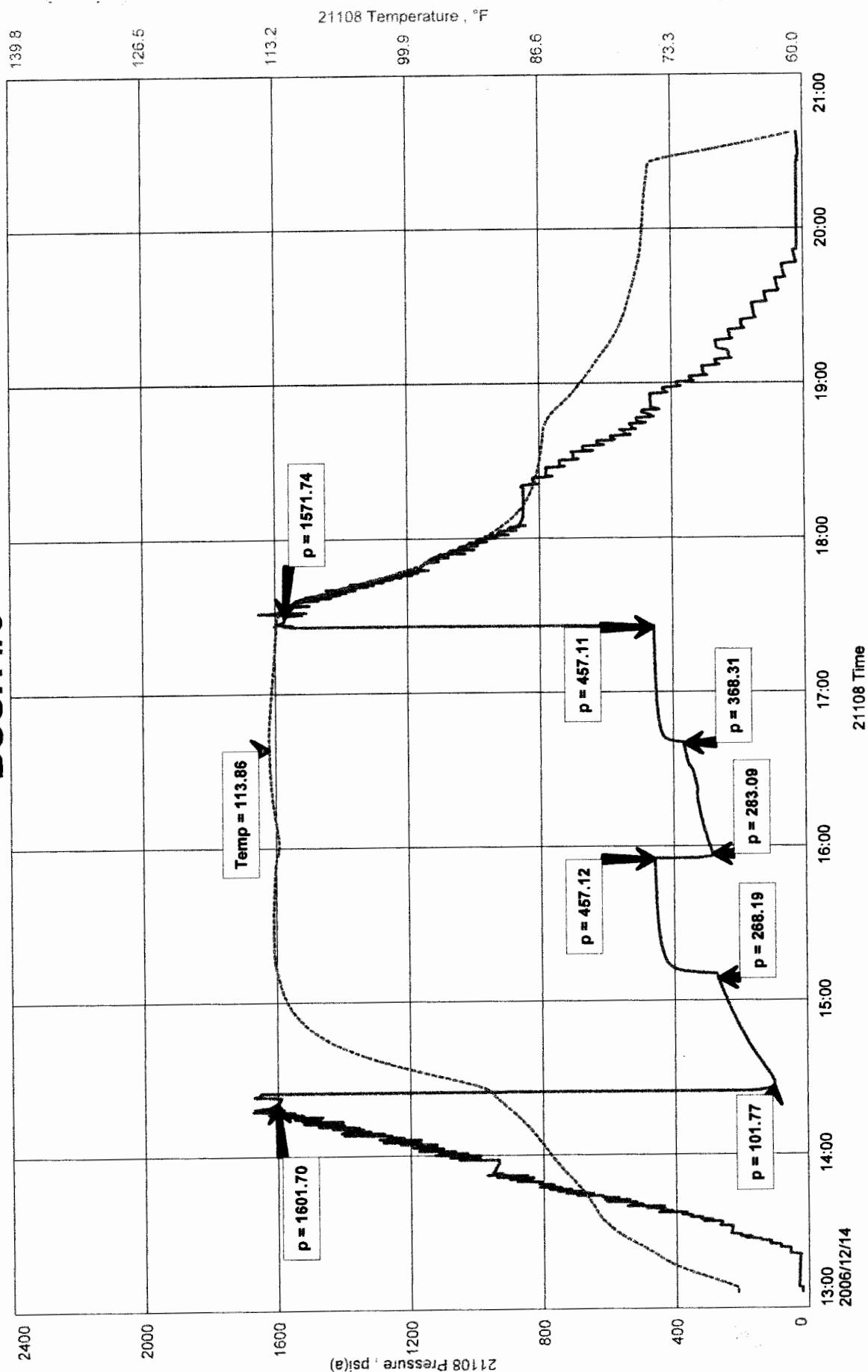
TOTAL FLUID REC. 1830'

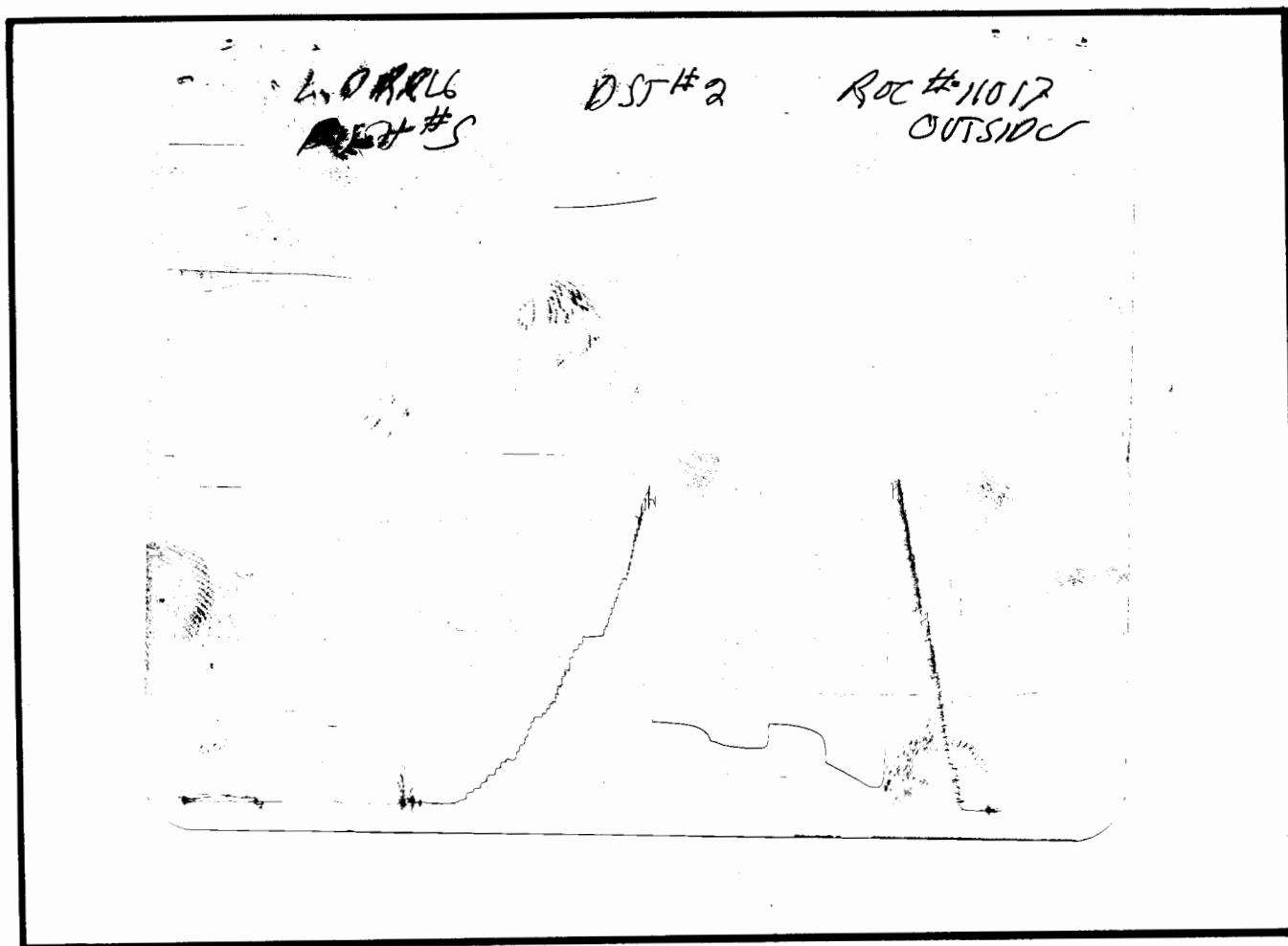
GAS TO SURFACE 9 MINUTES 1ST FLOW(GUIAGED 9,000 CF/D DOWN TO 1,000 CF/D)

BUSH #5
Formation: LKC "H"
Job Number: D396

LD DRILLING INC
DST #2 3346 TO 3372
Start Test Date: 2006/12/14
Final Test Date: 2006/12/14

BUSH #5





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1602	1602
(B) First Initial Flow Pressure.....	102	102
(C) First Final Flow Pressure	268	268
(D) Initial Closed-in Pressure	457	457
(E) Second Initial Flow Pressure	283	283
(F) Second Final Flow Pressure.....	368	368
(G) Final Closed-in Pressure.....	457	457
(H) Final Hydrostatic Mud	1572	1572



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Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Bush No. 5
Elevation 1879 KB Formation Lansing/Kansas City "I"-K" Effective Pay -- Ft. Ticket No. J2000
Date 12-15-06 Sec. 12 Twp. 20S Range 14W County Barton State Kansas
Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,374 ft. to 3,430 ft. Total Depth 3,430 ft.

Packer Depth 3,369 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,374 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,377 ft. Recorder Number 21108 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,427 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 56 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 8.8 cc. Drill Pipe Length 3,354 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 Bowen Serial Number Not Run Anchor Length 56 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 in., blow.

2nd Open: Weak, 1 in., blow.

Recovered 140 ft. of gas in pipe

Recovered 15 ft. of slightly oil cut mud = .213000 bbls. (Grind out: 3%-oil; 97%-mud)

Recovered 30 ft. of muddy water = .426000 bbls. (Grind out: 40%-mud; 60%-water) Chlorides: 70,000 Ppm

Recovered 45 ft. of TOTAL FLUID = .639000 bbls.

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 7:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 9:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 101°

Initial Hydrostatic Pressure (A) 1664 P.S.I.

Initial Flow Period Minutes 30 (B) 34 P.S.I. to (C) 38 P.S.I.

Initial Closed In Period Minutes 30 (D) 536 P.S.I.

Final Flow Period Minutes 45 (E) 44 P.S.I. to (F) 47 P.S.I.

Final Closed In Period Minutes 45 (G) 555 P.S.I.

Final Hydrostatic Pressure (H) 1590 P.S.I.

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

Well Information:

Name: BUSH #5

Operator: L D DRILLING INC

Location-Downhole: DST #3 3374 TO 3430

Location-Surface: S12/20S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D387

Test Unit: 2

Start Date: 2006/12/15

Start Time: 05:53:00

End Date: 2006/12/15

End Time: 11:25:00

Report Date: 2006/12/15

Prepared By: JOHN RIEDL

Remarks:

Qualified By: JIM MUSGROVE

REC: 140' GAS IN PIPE

15' SLOCM (3%OIL 97%MUD)

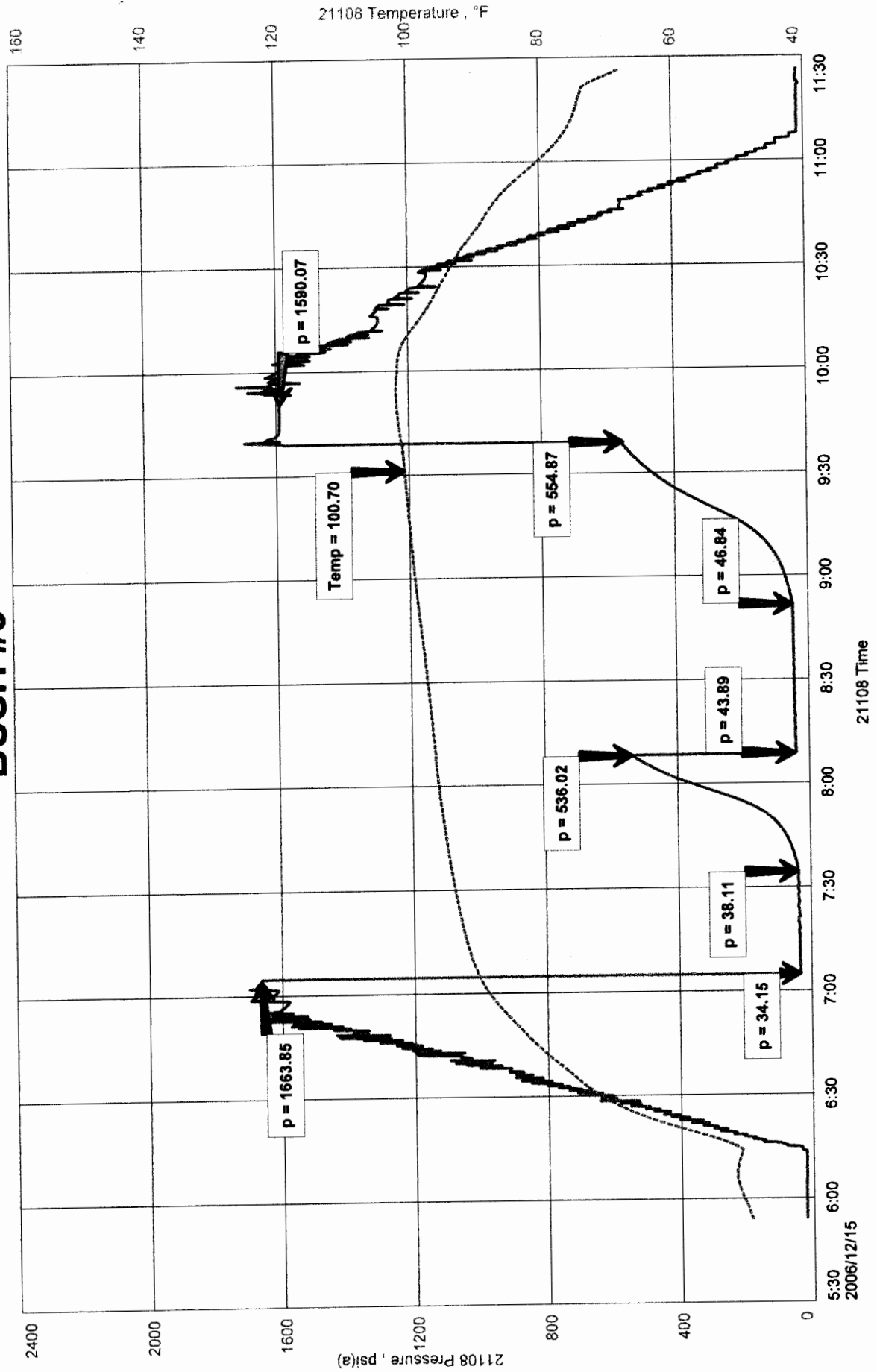
30' MUDDY WATER (40%MUD 60%WATER) CHLORIDES 70,000Ppm

TOTAL FLUID RECOVERY 45'

BUSH #5
Formation: LKC "I THRU K"
Job Number: D387

L D DRILLING INC
DST #3 3374 TO 3430
Start Test Date: 2006/12/15
Final Test Date: 2006/12/15

BUSH #5



L20016
BUSH #5

OST #3

RFC #11017
OUTSIDE



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1664	1664
(B) First Initial Flow Pressure	34	34
(C) First Final Flow Pressure	38	38
(D) Initial Closed-in Pressure	536	536
(E) Second Initial Flow Pressure	44	44
(F) Second Final Flow Pressure	47	47
(G) Final Closed-in Pressure	555	555
(H) Final Hydrostatic Mud	1590	1590



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STC 21108.D398

Page 1 of 3 Pages

Company <u>L. D. Drilling, Inc.</u>		Lease & Well No. <u>Bush No. 5</u>	
Elevation <u>1879 KB</u>	Formation <u>Arbuckle</u>	Effective Pay <u> </u>	-- Ft. Ticket No. <u>J2001</u>
Date <u>12-15-06</u>	Sec. <u>12</u> Twp. <u>20S</u> Range <u>14W</u>	County <u>Barton</u>	State <u>Kansas</u>
Test Approved By <u>Jim Musgrove</u>		Diamond Representative <u>John C. Riedl</u>	
Formation Test No. <u>4</u>		Interval Tested from <u>3,440</u> ft. to <u>3,528</u> ft.	Total Depth <u>3,528</u> ft.
Packer Depth <u>3,435</u> ft.	Size <u>6 3/4</u> in.	Packer Depth <u> </u>	-- ft. Size <u> </u> in.
Packer Depth <u>3,440</u> ft.	Size <u>6 3/4</u> in.	Packer Depth <u> </u>	-- ft. Size <u> </u> in.
Depth of Selective Zone Set <u> </u> ft.			
Top Recorder Depth (Inside) <u>3,443</u> ft.		Recorder Number <u>21108</u>	Cap. <u>5,000</u> psi
Bottom Recorder Depth (Outside) <u>3,525</u> ft.		Recorder Number <u>11017</u>	Cap. <u>4,000</u> psi
Below Straddle Recorder Depth <u> </u> ft.		Recorder Number <u> </u>	Cap. <u> </u> psi
Drilling Contractor <u>Southwind Drilling, Inc. - Rig 2</u>		Drill Collar Length <u> </u>	-- ft. I.D. <u> </u> in.
Mud Type <u>Chemical</u> Viscosity <u>57</u>		Weight Pipe Length <u> </u>	-- ft. I.D. <u> </u> in.
Weight <u>9.0</u> Water Loss <u>12.8</u> cc.		Drill Pipe Length <u>3,420</u> ft.	I.D. <u>3 1/2</u> in.
Chlorides <u>7,600</u> P.P.M.		Test Tool Length <u>20</u> ft.	Tool Size <u>3 1/2</u> - IF in.
Jars: Make <u>Bowen</u> Serial Number <u>Not Run</u>		Anchor Length <u>88</u> ft.	Size <u>4 1/2</u> - FH in.
Did Well Flow? <u>No</u> Reversed Out <u>No</u>		Surface Choke Size <u>1</u> in.	Bottom Choke Size <u>5/8</u> in.
		Main Hole Size <u>7 7/8</u> in.	Tool Joint Size <u>4 1/2</u> - XH in.
Blow: 1st Open: <u>Strong blow. Off bottom of bucket immediately. Gas to surface in 3 mins. No blow back during shut-in.</u> (SEE GAS VOLUME REPORT)			
2nd Open: <u>Strong blow. Gas to surface throughout. No blow back during shut-in. (SEE GAS VOLUME REPORT)</u>			
Recovered <u>130</u> ft. of slightly oil cut gassy mud = 1.846000 bbls. (Grind out: 4%-oil; 20%-gas; 76%-mud)			
Recovered <u> </u> ft. of <u> </u>			
Recovered <u> </u> ft. of <u> </u>			
Recovered <u> </u> ft. of <u> </u>			
Recovered <u> </u> ft. of <u> </u>			
Remarks <u> </u>			
Time Set Packer(s) <u>9:35</u> P.M. ^{A.M.}		Time Started Off Bottom <u>12:35</u> P.M. ^{A.M.}	Maximum Temperature <u>111°</u>
Initial Hydrostatic Pressure <u> </u> (A) <u>1675</u> P.S.I.			
Initial Flow Period <u>45</u> Minutes (B) <u>106</u> P.S.I. to (C) <u>88</u> P.S.I.			
Initial Closed In Period <u>45</u> Minutes (D) <u>1080</u> P.S.I.			
Final Flow Period <u>45</u> Minutes (E) <u>98</u> P.S.I. to (F) <u>96</u> P.S.I.			
Final Closed In Period <u>45</u> Minutes (G) <u>1026</u> P.S.I.			
Final Hydrostatic Pressure <u> </u> (H) <u>1622</u> P.S.I.			

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone:

Fax:

e-mail:

Site Information:

Contact: JIM MUSGROVE

Phone:

Fax:

e-mail:

Well Information:

Name: BUSH #5

Operator: L D DRILLING INC

Location-Downhole: DST #4 3440 TO 3528

Location-Surface: S12/20S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D398

Test Unit: 2

Start Date: 2006/12/15

Start Time: 20:25:00

End Date: 2006/12/16

End Time: 02:30:00

Report Date: 2006/12/16

Prepared By: JOHN RIEDL

Remarks:

Qualified By: JIM MUSGROVE

RECOVERY:130' SLOGGM (4%OIL 20%GAS 76%MUD)
GTS 3 MINUTES 1ST FLOW STABILIZED @ 251 MCF/D

DIAMOND TESTING
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GAS VOLUME REPORT

Page 3 of 3 Pages

Company L. D. Drilling, Inc. Lease & Well No. 1630 FNL & Bush No. 5
Date 12-15-06 Sec. 12 Twp. 20 S Rge. 14 W Location 2135' FWL, Sec County Barton State KS
Drilling Contractor Southwind Drilling, Inc. - Rig 2 Formation Arbuckle DST No. 4
Remarks: 1st Open: Gas to surface in 3 mins. Gas sample taken. Gas burned.
2nd Open: Gas to surface throughout.

INITIAL FLOW

Open Tool: 9:35 p.m.

[illegible]

FINAL FLOW

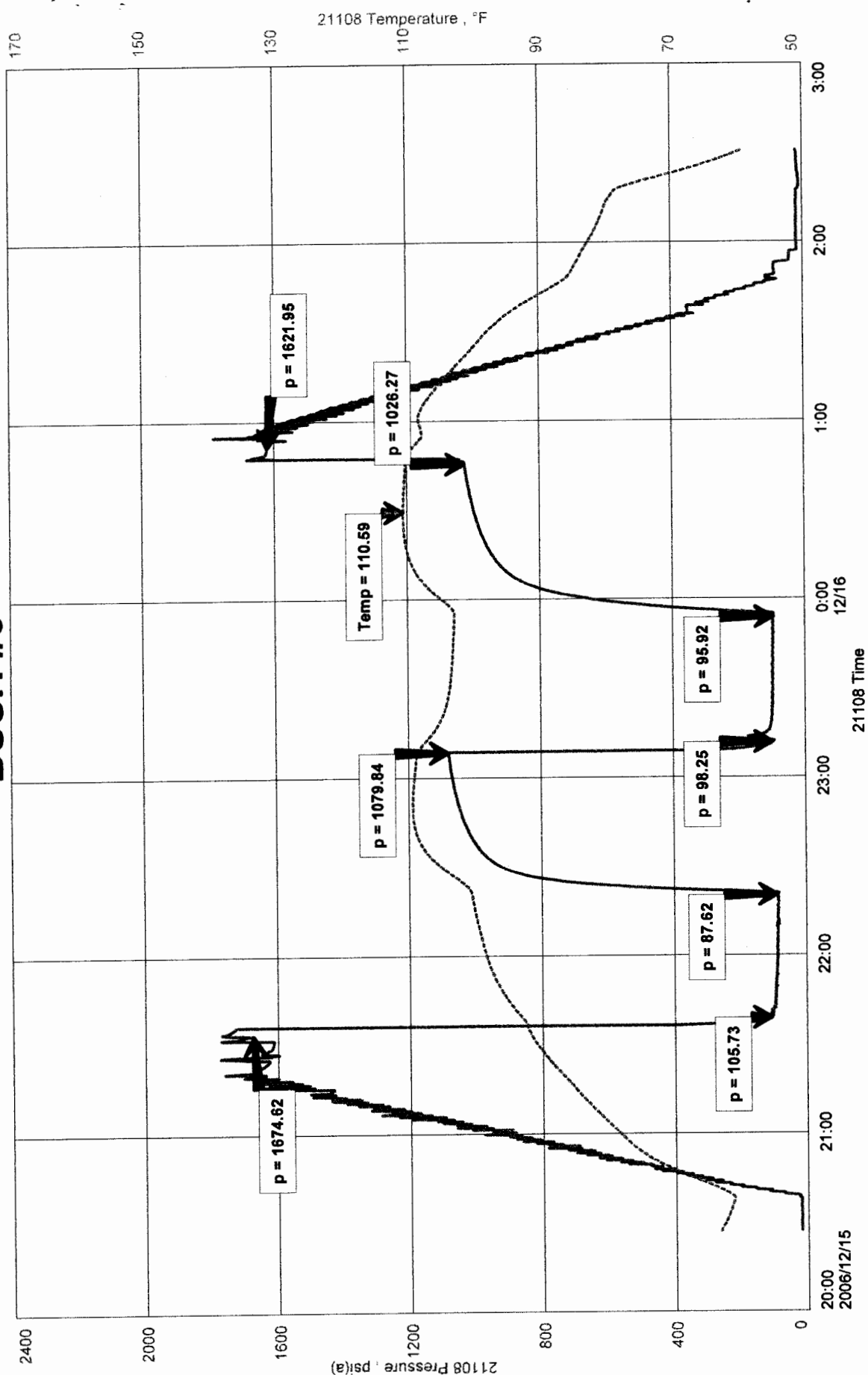
Open Tool: 11:05 p.m.

[illegible]

BUSH #5
Formation: ARBUCKLE
Job Number: D398

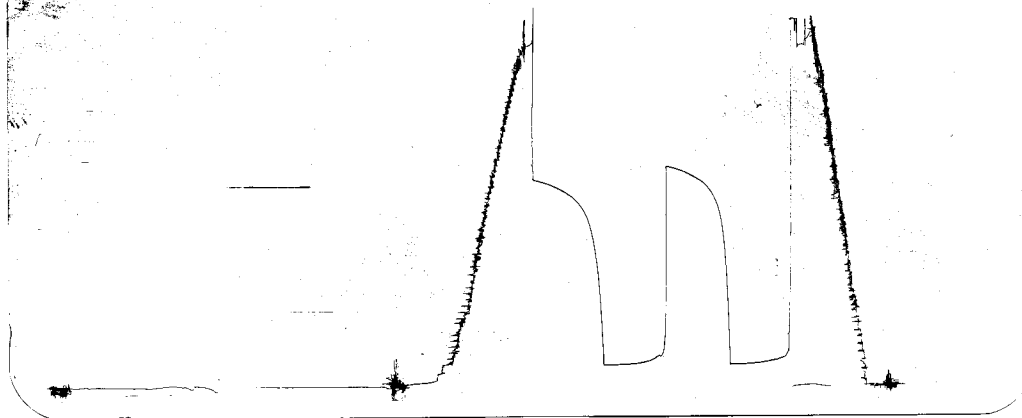
L D DRILLING INC
DST #4 3440 TO 3528
Start Test Date: 2006/12/15
Final Test Date: 2006/12/16

BUSH #5



L.D. DRLC DST #4
BUS #5

ROC #22602
11012
001300



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1675	1675
(B) First Initial Flow Pressure.....	106	106
(C) First Final Flow Pressure	88	88
(D) Initial Closed-in Pressure	1080	1080
(E) Second Initial Flow Pressure.....	98	98
(F) Second Final Flow Pressure.....	96	96
(G) Final Closed-in Pressure.....	1026	1026
(H) Final Hydrostatic Mud	1622	1622