



15-009-24818

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21083.D25

ORIGINAL

31-20s-12w

Page 1 of 3 Pages

Company L. D. Drilling, Inc. Lease & Well No. Brown No. 1Elevation 1900 KB Formation Lansing/Kansas City "A"- "F" Effective Pay -- Ft. Ticket No. J1615Date 2-20-05 Sec. 31 Twp. 20S Range 12W County Barton State KansasTest Approved By Kim B. Shoemaker Diamond Representative John C. RiedlFormation Test No. 1 Interval Tested from 3,220 ft. to 3,305 ft. Total Depth 3,305 ft.Packer Depth 3,215 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Packer Depth 3,220 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Depth of Selective Zone Set -- ft.Top Recorder Depth (Inside) 3,223 ft. Recorder Number 21083 Cap. 5,000 psiBottom Recorder Depth (Outside) 3,302 ft. Recorder Number 11073 Cap. 4,000 psiBelow Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psiDrilling Contractor Petromark Drilling, LLC - Rig 1 Drill Collar Length -- ft. I.D. -- in.Mud Type Chemical Viscosity 56 Weight Pipe Length -- ft. I.D. -- in.Weight 9.0 Water Loss 8.0 cc. Drill Pipe Length 3,200 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 Bowen Serial Number Not Run Anchor Length 85 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: Fair, 3 1/2 in., blow. No blow back during shut-in.2nd Open: Fair, 3 1/2 in., blow decreasing to 1 in. by end. No blow back during shut-in.Recovered 180 ft. of gas in pipeRecovered 60 ft. of very slightly oily & gas cut mud = .852000 bbls. (Grind out: 3%-oil; 5%-gas; 92%-mud)Recovered 60 ft. of TOTAL FLUID = .852000 bbls.Recovered -- ft. ofRecovered -- ft. of

Remarks

Time Set Packer(s) 1:25 ~~P.M.~~ ^{AM.} Time Started Off Bottom 4:25 ~~P.M.~~ ^{AM.} Maximum Temperature 97°Initial Hydrostatic Pressure (A) 1524 P.S.I.Initial Flow Period Minutes 30 (B) 30 P.S.I. to (C) 34 P.S.I.Initial Closed In Period Minutes 45 (D) 719 P.S.I.Final Flow Period Minutes 45 (E) 42 P.S.I. to (F) 47 P.S.I.Final Closed In Period Minutes 60 (G) 651 P.S.I.Final Hydrostatic Pressure (H) 1496 P.S.I.



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Page 2 of 3 Pages

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.
Lease & Well No. Brown No. 1
Date 2-20-05 Sec. 31 Twp. 20 S Range 12 W
Formation Test No. 1 Interval Tested From 3,220 ft. to 3,305 ft. Total Depth 3,305 ft.
Formation Lansing/Kansas City "A"-"F"

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>56</u> CP	<u>65</u> CP
Weight	<u>9.0</u>	<u>9.0</u>
Water Loss	<u>8.0</u> CC	<u>8.0</u> CC
PH Factor	<u>10.5</u>	<u>10.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud Filtrate	<u>1.90</u> @ <u>52</u> °F. <u>4,500</u> ppm	
Mud Pit Sample	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample Filtrate	<u>1.50</u> @ <u>55</u> °F. <u>4,800</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 5,000 Ppm.
Recovery filtrate triton dish chlorides were 4,000 Ppm.

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: BROWN #1

Operator: L D DRILLING INC

Location-Downhole: DST #1 3220-3305

Location-Surface: S31/20S12W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Job Number: D25

Test Unit: 2

Start Date: 2005/02/20

Start Time: 11:30:00

End Date: 2005/02/20

End Time: 18:06:30

Report Date: 2005/02/20

Prepared By: JOHN RIEDL

Remarks:

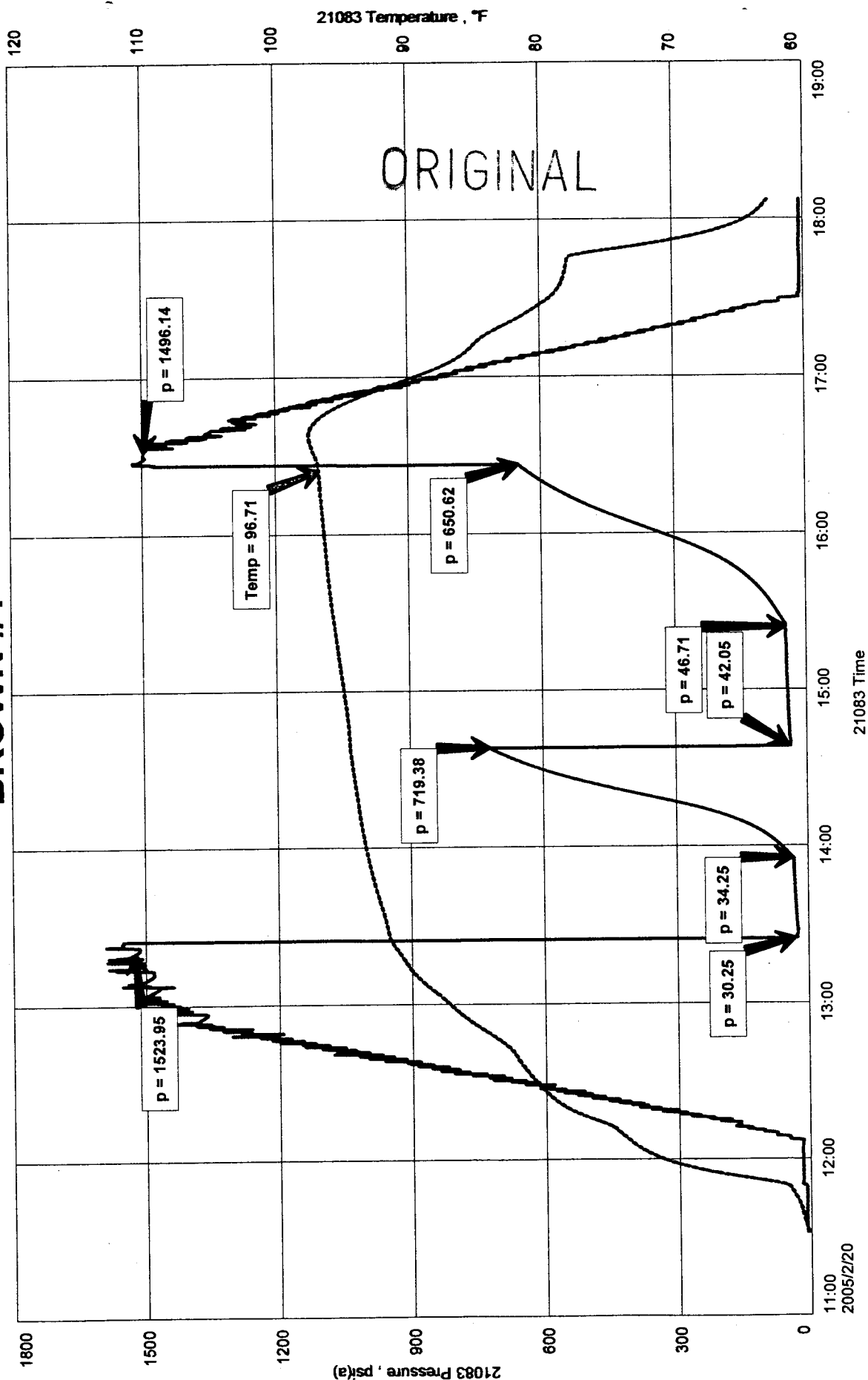
Qualified By: KIM SHOEMAKER

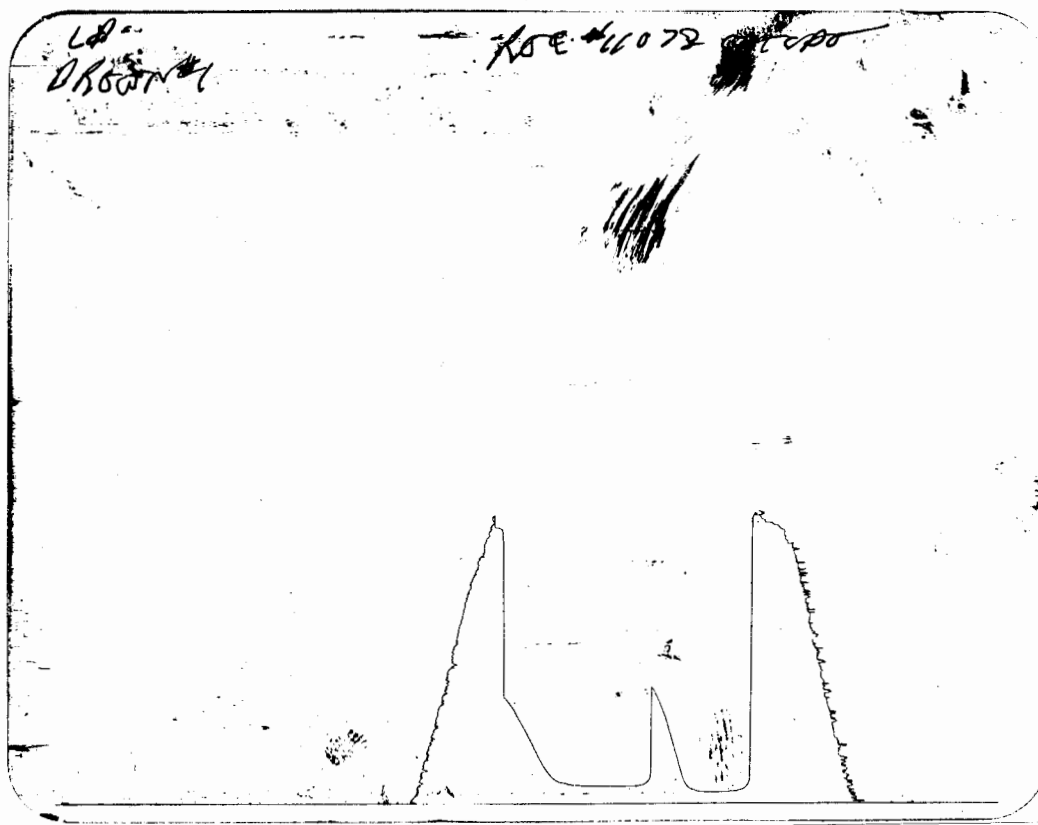
RECOVERY: 180' GIP
60' SLO+GCM [3%OIL 5%GAS 92%MUD]

BROWN #1
Formation: LKJ "A/F"
Job Number: D25

LD DRILLING INC
DST #1 3220-3305
Start Test Date: 2005/02/20
Final Test Date: 2005/02/20

BROWN #1





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1524	1524
(B) First Initial Flow Pressure.....	30	30
(C) First Final Flow Pressure	34	34
(D) Initial Closed-in Pressure	719	719
(E) Second Initial Flow Pressure	42	42
(F) Second Final Flow Pressure.....	47	47
(G) Final Closed-in Pressure.....	651	651
(H) Final Hydrostatic Mud	1496	1496



DIAMOND TESTING

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STC 21083.D26

ORIGINAL

Page 1 of 3 Pages

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

Elevation 1900 KB Formation Lansing/Kansas City "H" & "I" Effective Pay --Ft. Ticket No. J1616

Date 2-21-05 Sec. 31 Twp. 20S Range 12W County Barton State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,353 ft. to 3,390 ft. Total Depth 3,390 ft.

Packer Depth 3,348 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,353 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,356 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,387 ft. Recorder Number 11073 Cap. 4,000 psi

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

Drilling Contractor Petromark Drilling, LLC - Rig 1 Drill Collar Length -- ft. I.D. -- in.

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

Weight 9.0 Water Loss 9.0 cc. Drill Pipe Length 3,333 ft. I.D. 3 1/2 in.

Chlorides 6,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 37 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 15 mins.

2nd Open: No blow. Flushed tool & received a short surge.

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) 5:12 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:12 ~~P.M.~~ ^{A.M.} Maximum Temperature 97°

Initial Hydrostatic Pressure (A) 1580 P.S.I.

Initial Flow Period Minutes 30 (B) 22 P.S.I. to (C) 24 P.S.I.

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

Final Flow Period Minutes 30 (E) 24 P.S.I. to (F) 24 P.S.I.

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

Final Hydrostatic Pressure (H) 1576 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Brown No. 1

Date 2-21-05 Sec. 31 Twp. 20 S Range 12 W

Formation Test No. 2 Interval Tested From 3,353 ft. to 3,390 ft. Total Depth 3,390 ft.

Formation Lansing/Kansas City "H" & "I"

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>52</u> CP	<u>52</u> CP
Weight	<u>9.0</u>	<u>9.1</u>
Water Loss	<u>9.0</u> CC	<u>8.0</u> CC
PH Factor	<u>10.5</u>	<u>10.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud Filtrate	<u>1.30</u> @ <u>57</u> °F. <u>6,100</u> ppm	
Mud Pit Sample	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample Filtrate	<u>1.50</u> @ <u>45</u> °F. <u>5,900</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 6,000 Ppm.
Recovery filtrate triton dish chlorides were 6,000 Ppm.

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: BROWN #1

Operator: L D DRILLING INC

Location-Downhole: DST #2 3353-3390

Location-Surface: S31/20S12W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CON VENTIONAL

Job Number: 026

Test Unit: 2

Start Date: 2005/02/21

Start Time: 06:15:00

End Date: 2005/02/21

End Time: 08:56:50

Report Date: 2005/02/21

Prepared By: JOHN RIEDL

Remarks:

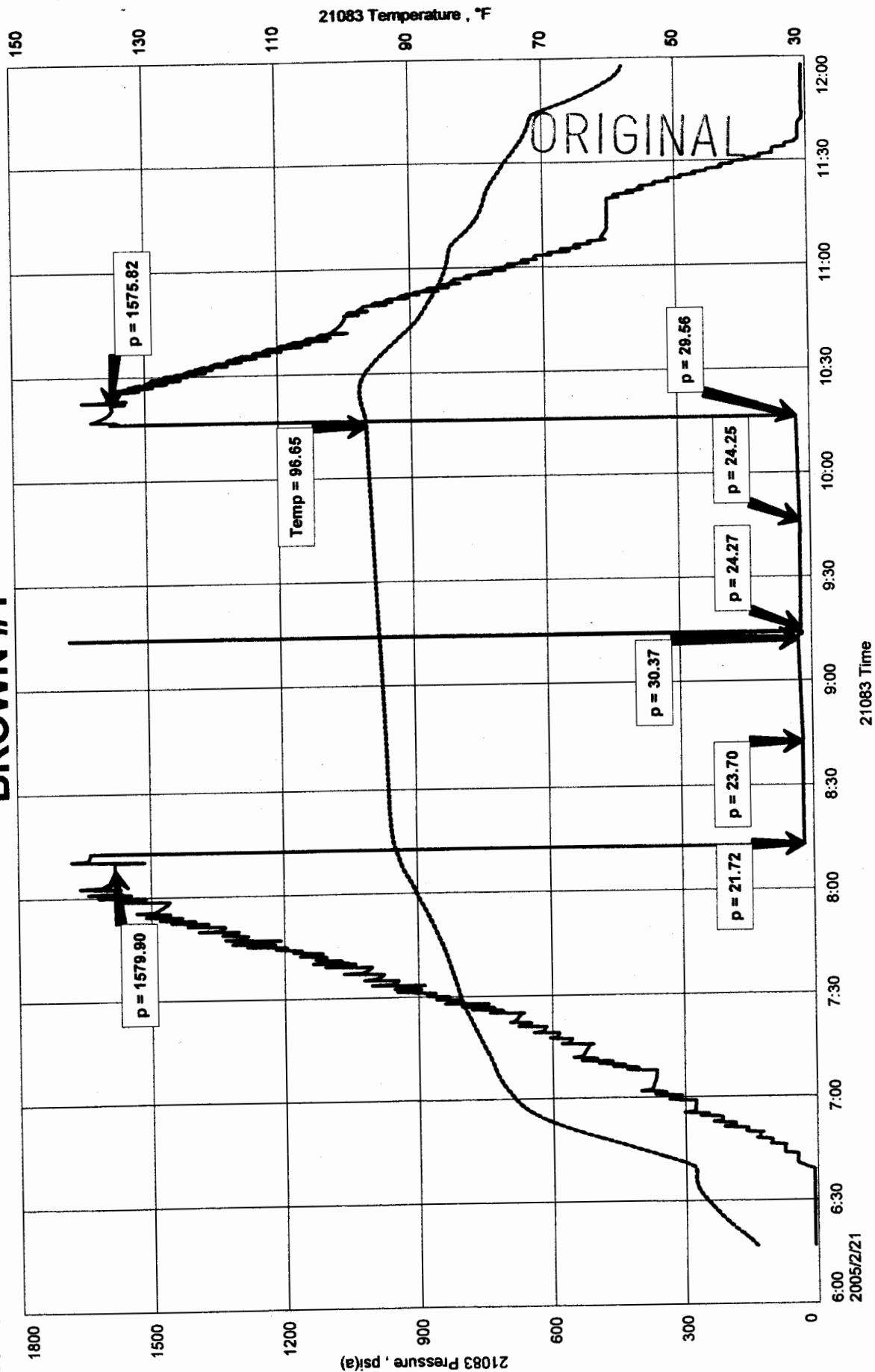
Qualified By: KIM SHOEMAKER

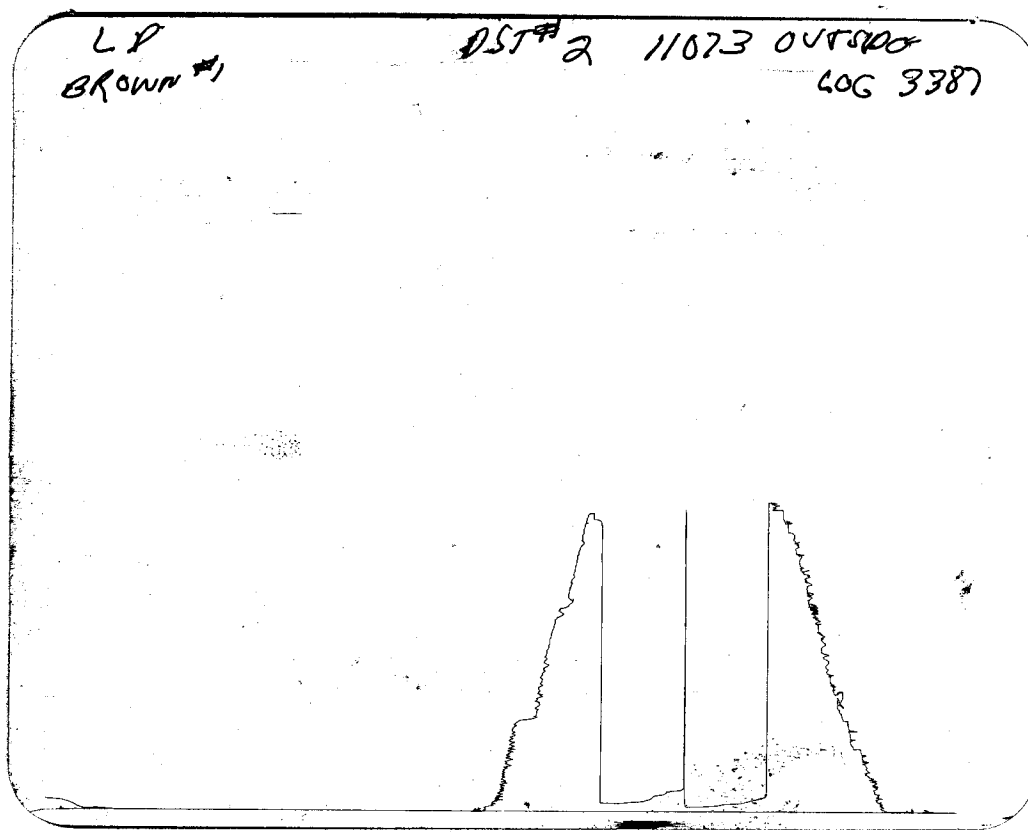
RECOVERY: 5' DRILLING MUD

BROWN #1
Formation: LKC

L D DRILLING INC
DST #2 3353-3390
Start Test Date: 2005/02/21
Final Test Date: 2005/02/21

BROWN #1





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1580	1580
(B) First Initial Flow Pressure.....	22	22
(C) First Final Flow Pressure	24	24
(D) Initial Closed-in Pressure	30	30
(E) Second Initial Flow Pressure	24	24
(F) Second Final Flow Pressure.....	24	24
(G) Final Closed-in Pressure	30	30
(H) Final Hydrostatic Mud	1576	1576



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STC 21083.D27

ORIG

Page 1 of 3 Pages

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

Elevation 1900 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. J1617

Date 2-21-05 Sec. 31 Twp. 20S Range 12W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,439 ft. to 3,496 ft. Total Depth 3,496 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 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,493 ft. Recorder Number 11073 Cap. 4,000 psi

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

Drilling Contractor Petromark Drilling, LLC - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 58 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.2 Water Loss 10.0 cc. Drill Pipe Length 3,419 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 57 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 blow slowly building to 8 ins. No blow back during shut-in.

2nd Open: Good blow slowly building to 7 ins. No blow back during shut-in.

Recovered 250 ft. of gas in pipe

Recovered 50 ft. of clean gassy oil = .710000 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 34 @ 60°

Recovered 120 ft. of muddy gassy oil = 1.704000 bbls. (Grind out: 20%-mud; 30%-gas; 50%-oil)

Recovered 170 ft. of TOTAL FLUID = 2.414000 bbls.

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 10:30 P.M. Time Started Off Bottom 1:30 A.M. Maximum Temperature 100°

Initial Hydrostatic Pressure (A) 1675 P.S.I.

Initial Flow Period Minutes 45 (B) 26 P.S.I. to (C) 59 P.S.I.

Initial Closed In Period Minutes 45 (D) 900 P.S.I.

Final Flow Period Minutes 45 (E) 63 P.S.I. to (F) 85 P.S.I.

Final Closed In Period Minutes 45 (G) 770 P.S.I.

Final Hydrostatic Pressure (H) 1622 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Brown No. 1

Date 2-21-05 Sec. 31 Twp. 20 S Range 12 W

Formation Test No. 3 Interval Tested From 3,439 ft. to 3,496 ft. Total Depth 3,496 ft.

Formation Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>58</u> CP	<u>--</u> CP
Weight	<u>9.2</u>	<u>--</u>
Water Loss	<u>10.0</u> CC	<u>--</u> CC
PH Factor	<u>10.0</u>	<u>--</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>1.10</u> @ <u>55</u> °F.	<u>7,400</u> ppm
Mud Pit Sample	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Mud Pit Sample Filtrate	<u>1.10</u> @ <u>52</u> °F.	<u>7,700</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Jim Musgrove

Remarks Pit filtrate triton dish chlorides were 7,000 Ppm.
Recovery filtrate triton dish chlorides were 6,000 Ppm.

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: BROWN #1

Operator: L D DRILLING INC

Location-Downhole: DST #3 3439-3496

Location-Surface: S31/20S/12W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D27

Test Unit: 2

Start Date: 2005/02/22

Start Time: 21:15:00

End Date: 2005/02/22

End Time: 03:17:00

Report Date: 2005/02/22

Prepared By: JOHN RIEDL

Remarks:

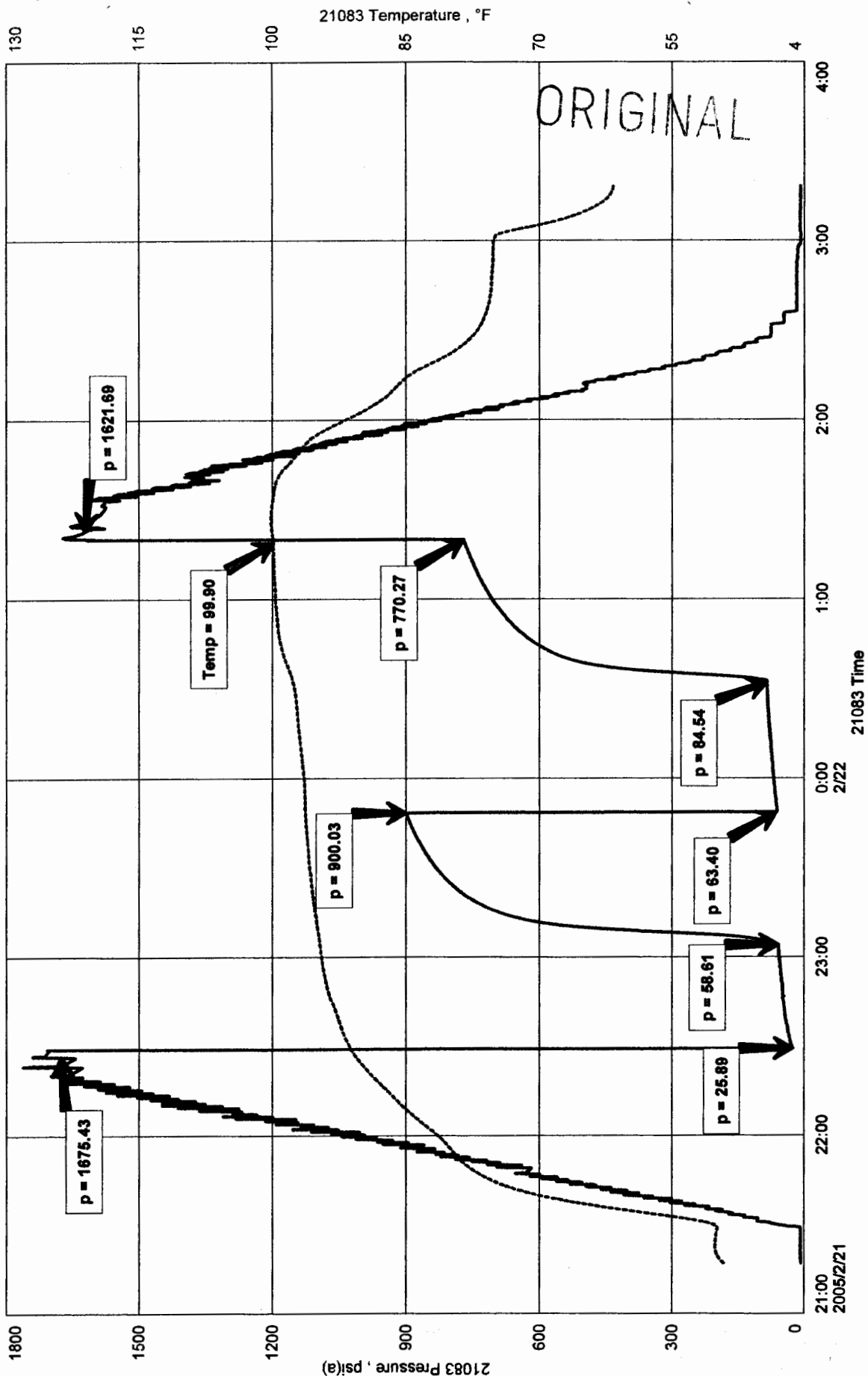
Qualified By: JIM MUSGROVE

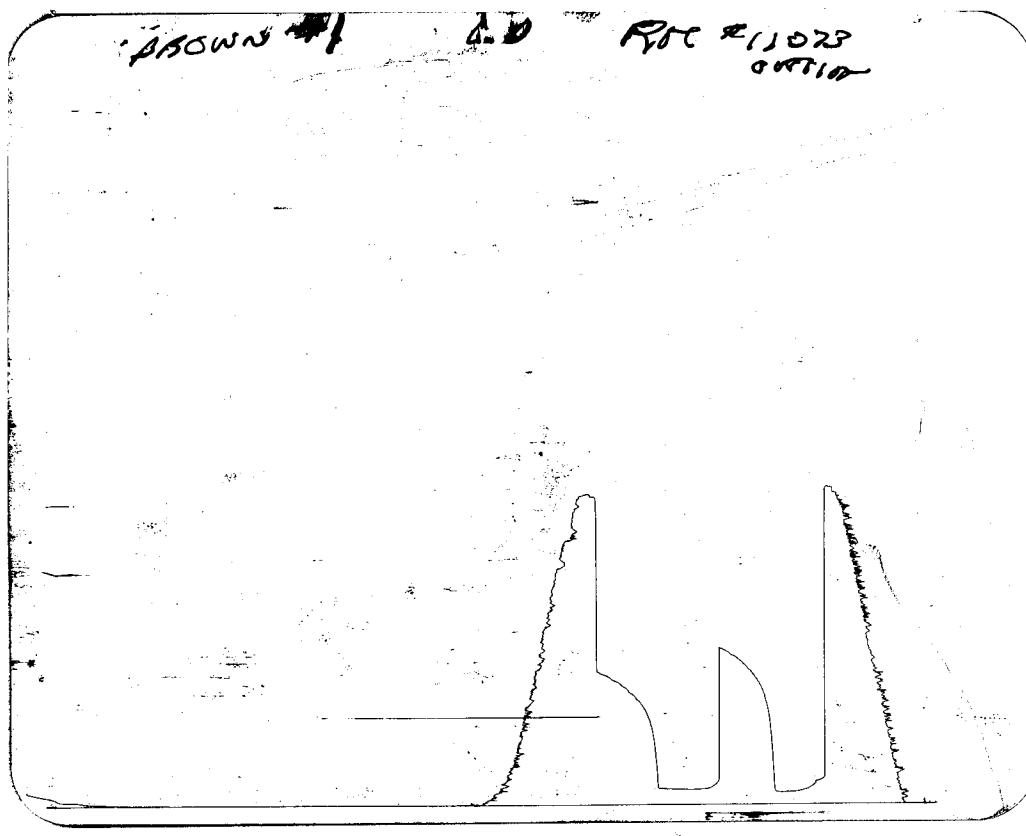
REC: 250 GIP
50' CGO
120' MGO

BROWN #1
Formation: ARBUCKLE
Job Number: D27

L D DRILLING INC
DST #3 3439-3496
Start Test Date: 2005/02/22
Final Test Date: 2005/02/22

BROWN #1





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.....	26	26
(C) First Final Flow Pressure	59	59
(D) Initial Closed-in Pressure	900	900
(E) Second Initial Flow Pressure	63	63
(F) Second Final Flow Pressure.....	85	85
(G) Final Closed-in Pressure.....	770	770
(H) Final Hydrostatic Mud	1622	1622



DIAMOND TESTING

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STC 21083.D28

ORIGINAL

Page 1 of 3 Pages

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

Elevation 1900 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. J1618

Date 2-22-05 Sec. 31 Twp. 20S Range 12W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,496 ft. to 3,512 ft. Total Depth 3,512 ft.

Packer Depth 3,491 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,496 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,499 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,509 ft. Recorder Number 11073 Cap. 4,000 psi

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

Drilling Contractor Petromark Drilling, LLC - Rig 1 Drill Collar Length -- ft. I.D. -- in.

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

Weight 9.2 Water Loss 11.0 cc. Drill Pipe Length 3,476 ft. I.D. 3 1/2 in.

Chlorides 8,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 16 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: Fair blow slowly building to 4 ins. No blow back during shut-in.

2nd Open: Fair blow slowly building to 3 ins. No blow back during shut-in.

Recovered 180 ft. of gas in pipe

Recovered 70 ft. of very slightly muddy & gas cut oil = .994000 bbls. (Grind out: 2%-mud; 5%-gas; 93%-oil)

Recovered 70 ft. of TOTAL FLUID = .994000 bbls.

Recovered -- ft. of

Recovered -- ft. of

Remarks

Time Set Packer(s) 11:32 A.M. Time Started Off Bottom 2:47 P.M. Maximum Temperature 101°

Initial Hydrostatic Pressure (A) 1695 P.S.I.

Initial Flow Period Minutes 45 (B) 26 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period Minutes 45 (D) 995 P.S.I.

Final Flow Period Minutes 45 (E) 34 P.S.I. to (F) 46 P.S.I.

Final Closed In Period Minutes 60 (G) 937 P.S.I.

Final Hydrostatic Pressure (H) 1674 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Brown No. 1

Date 2-22-05 Sec. 31 Twp. 20 S Range 12 W

Formation Test No. 4 Interval Tested From 3,496 ft. to 3,512 ft. Total Depth 3,512 ft.

Formation Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>52</u> CP	<u>--</u> CP
Weight	<u>9.2</u>	<u>--</u>
Water Loss	<u>11.0</u> CC	<u>--</u> CC
PH Factor	<u>10.0</u>	<u>--</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample Filtrate	<u>1.20</u> @ <u>40</u> °F. <u>8,000</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Jim Musgrove

Remarks Pit filtrate triton dish chlorides were 8,000 Ppm.

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: JIM M USGROVE

Phone: Fax: e-mail:

Well Information:

Name: BROWN #1

Operator: L D DRILLING INC

Location-Downhole: DST #4 3496-3512

Location-Surface: S30/20S/12W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D28

Test Unit: 2

Start Date: 2005/02/22

Start Time: 09:55:00

End Date: 2005/02/22

End Time: 16:54:00

Report Date: 2005/02/22

Prepared By: JOHN RIEDL

Remarks:

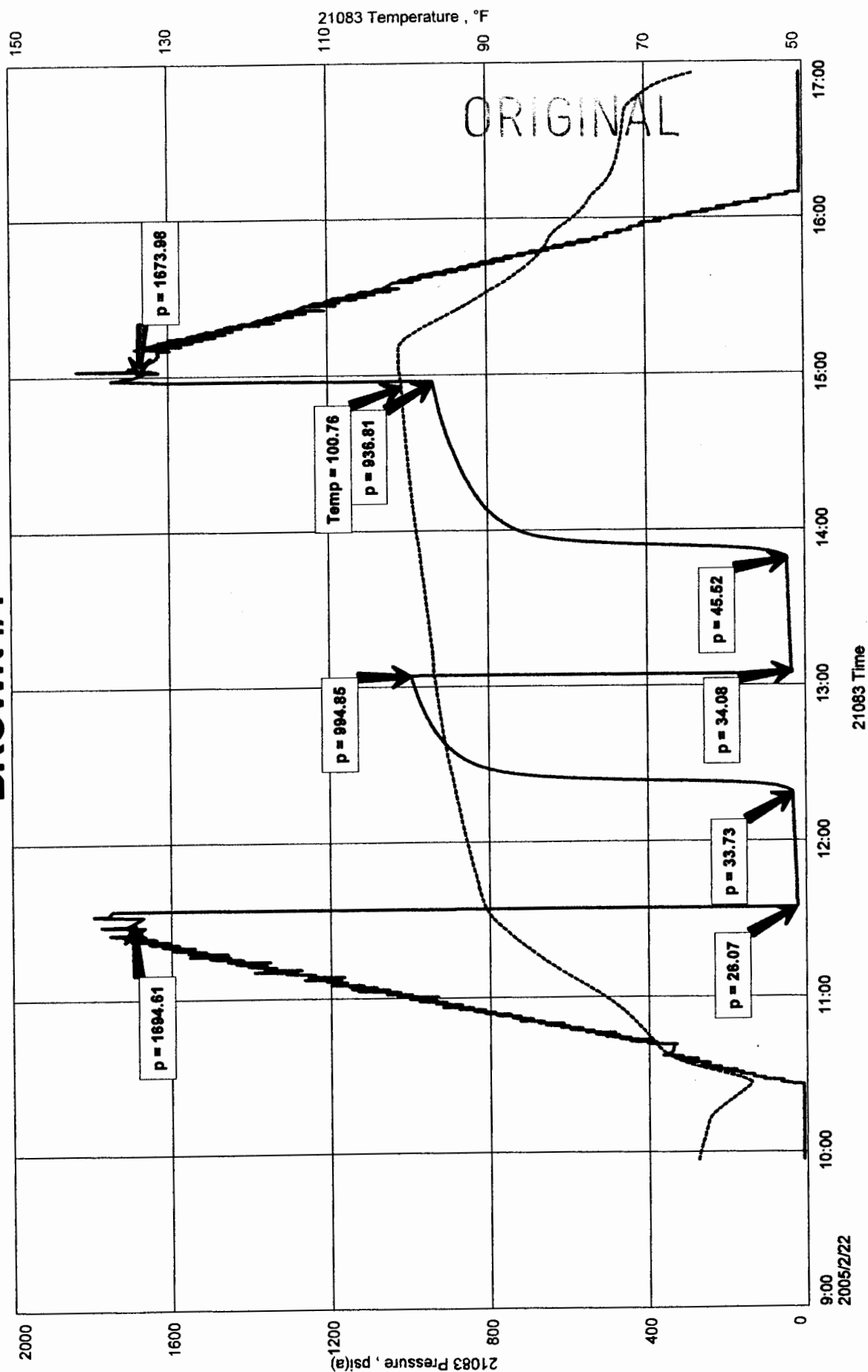
Qualified By: JIM MUSGROVE

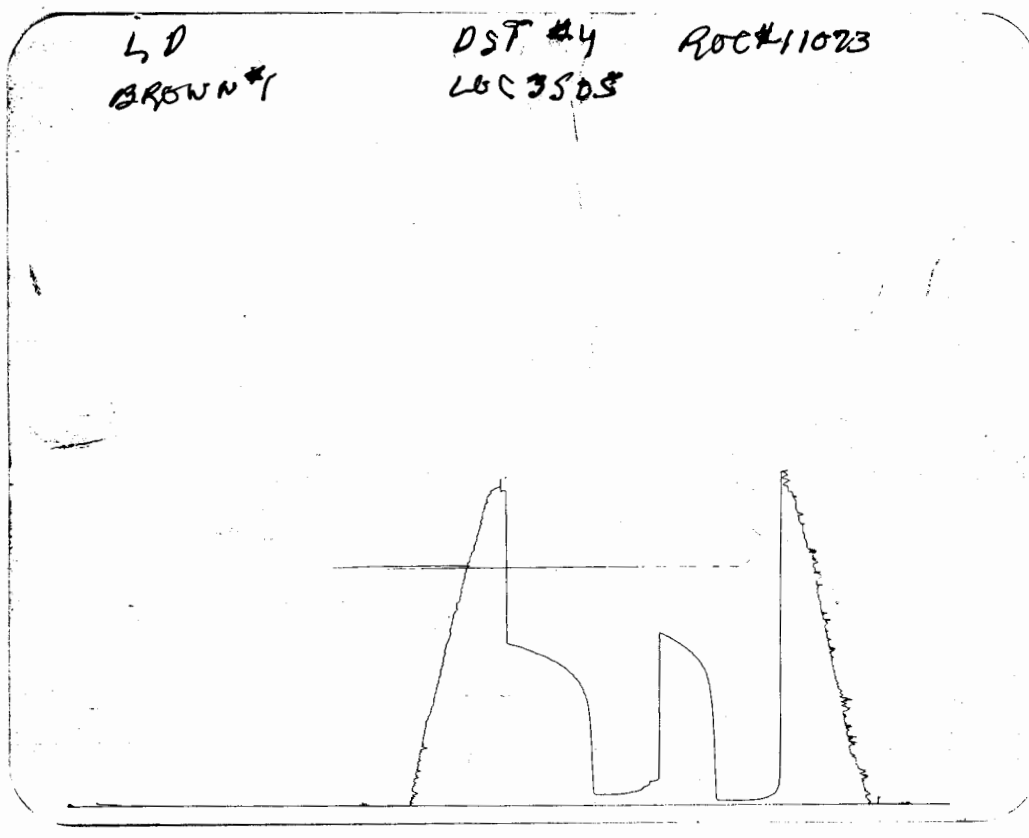
REC: 180' GAS IN PIPE
70' SLM+GCO [2%MUD 5%GAS 93%OIL]

BROWN #1
Formation: ARBUCKLE
Job Number: D28

LD DRILLING INC
DST #4 3496-3512
Start Test Date: 2005/02/22
Final Test Date: 2005/02/22

BROWN #1





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1695	1695
(B) First Initial Flow Pressure.....	26	26
(C) First Final Flow Pressure	34	34
(D) Initial Closed-in Pressure	995	995
(E) Second Initial Flow Pressure	34	34
(F) Second Final Flow Pressure.....	46	46
(G) Final Closed-in Pressure.....	937	937
(H) Final Hydrostatic Mud	1674	1674