

15-009-24811

19-195-14w

DIAMOND TESTING

ORIGINAL

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21083.D19

Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Calcara No. 1Elevation 1906 KB Formation Chase Effective Pay -- Ft. Ticket No. J1609Date 2-12-05 Sec. 19 Twp. 19S Range 14W County Barton State KansasTest Approved By Jim Musgrove Diamond Representative John C. RiedlFormation Test No. 1 Interval Tested from 1,718 ft. to 1,813 ft. Total Depth 1,813 ft.Packer Depth 1,713 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Packer Depth 1,718 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Depth of Selective Zone Set ft.Top Recorder Depth (Inside) 1,700 ft. Recorder Number 21083 Cap. 5,000 psiBottom Recorder Depth (Outside) 1,810 ft. Recorder Number 11073 Cap. 4,000 psiBelow Straddle Recorder Depth ft. Recorder Number Cap. psiDrilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length 240 ft. I.D. 2 1/4 in.Mud Type Spotted Mud on Bottom Viscosity -- Weight Pipe Length -- ft. I.D. -- in.Weight -- Water Loss -- cc. Drill Pipe Length 1,448 ft. I.D. 3 1/2 in.Chlorides -- P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.Jars: Make Bowen Serial Number 2 Anchor Length 95 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 blow. Off bottom of bucket in 15 mins. No blow back during shut-in.2nd Open: Fair, 3 to 4 in., blow throughout. No blow back during shut-in.Recovered 70 ft. of drilling mud = .344400 bbls. (Grind out: 100%-drilling mud)Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Remarks Because of the length of time the pipe was out of the hole, jars & safety joints were run with no charge to the operator.Time Set Packer(s) 7:55 ^{A.M.}/_{P.M.} Time Started Off Bottom 10:40 ^{A.M.}/_{P.M.} Maximum Temperature 81°Initial Hydrostatic Pressure (A) 850 P.S.I.Initial Flow Period 30 Minutes (B) 32 P.S.I. to (C) 39 P.S.I.Initial Closed In Period 30 Minutes (D) 283 P.S.I.Final Flow Period 45 Minutes (E) 42 P.S.I. to (F) 56 P.S.I.Final Closed In Period 60 Minutes (G) 309 P.S.I.Final Hydrostatic Pressure (H) 825 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: CALCARA #1

Operator: L D DRILLING INC

Location-Downhole: DST #1 1718-1813

Location-Surface: S19/19S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D19

Test Unit: 2

Start Date: 2005/02/12

Start Time: 06:03:00

End Date: 2005/02/12

End Time: 12:18:20

Report Date: 2005/02/12

Prepared By: JOHN RIEDL

Remarks:

Qualified By: JIM MUSGROVE

RECOVERY: 70" DRILLING MUD

LD DRILLING INC

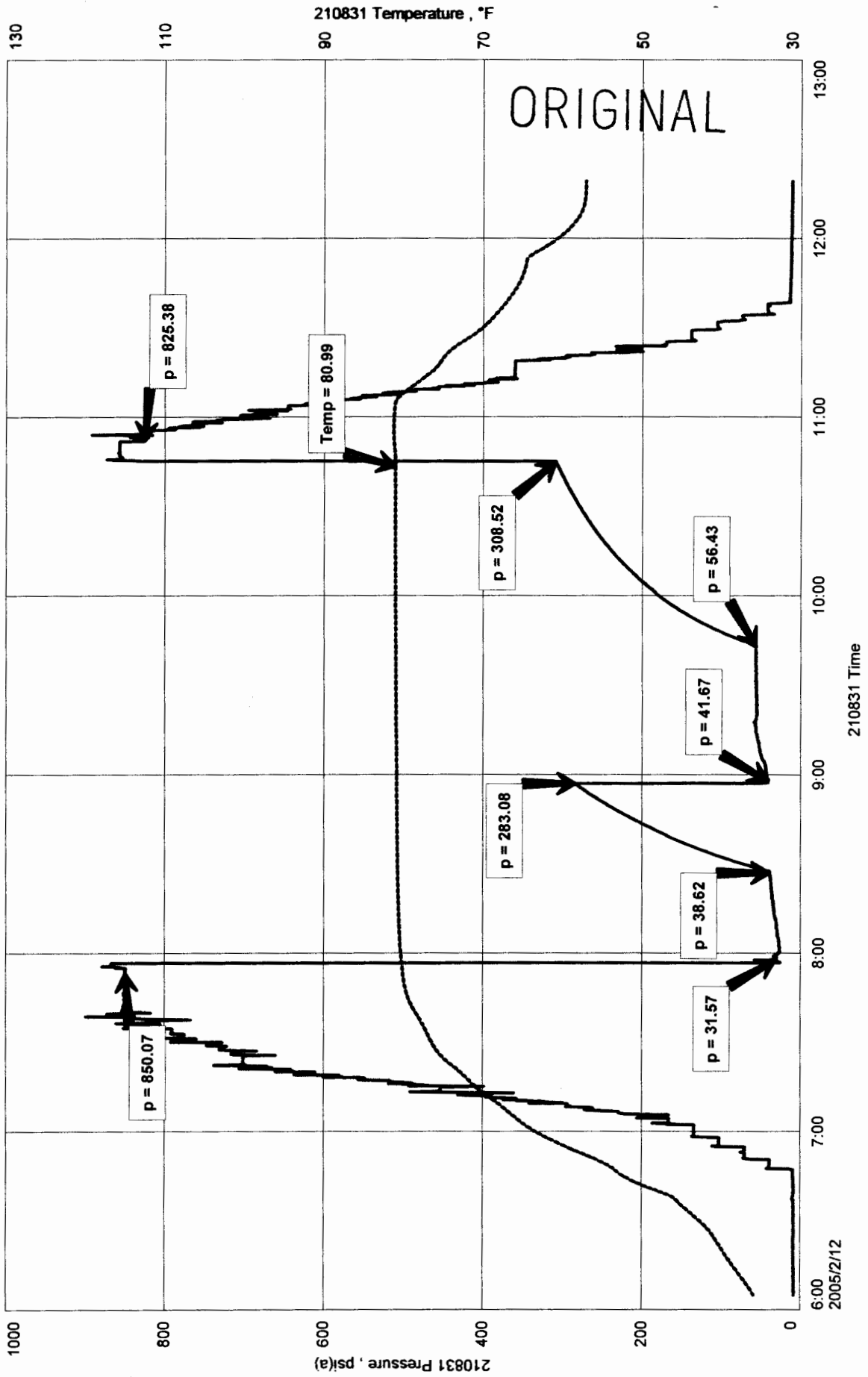
DST #1 1718-1813

Start Test Date: 2005/02/12

Final Test Date: 2005/02/12

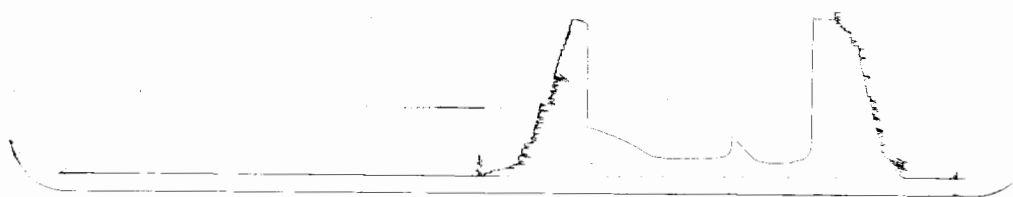
CALCARA #1

CALCARA #1
Formation: CHASE
Job Number: D19



• L.D. DRILLING
CALCANA #1 (PST 1)

RCC #11673 OUTSIDE LOG 1810 •



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	850	850
(B) First Initial Flow Pressure.....	32	32
(C) First Final Flow Pressure	39	39
(D) Initial Closed-in Pressure	283	283
(E) Second Initial Flow Pressure	42	42
(F) Second Final Flow Pressure.....	56	56
(G) Final Closed-in Pressure.....	309	309
(H) Final Hydrostatic Mud	825	825



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21083.D20

ORIGINAL

Page 1 of 3 Pages

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

Elevation 1906 KB Formation Lansing/Kansas City "A" Effective Pay -- Ft. Ticket No. J1610

Date 2-14-05 Sec. 19 Twp. 19S Range 14W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,231 ft. to 3,250 ft. Total Depth 3,250 ft.

Packer Depth 3,226 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,231 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,234 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,247 ft. Recorder Number 11073 Cap. 4,000 psi

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

Drilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 44 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 12.0 cc. Drill Pipe Length 3,201 ft. I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 19 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 but no help.

Recovered 10 ft. of drilling mud = .142000 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 7:00 ^{AM} P.M. Time Started Off Bottom 9:00 ^{AM} P.M. Maximum Temperature 98°

Initial Hydrostatic Pressure (A) 1529 P.S.I.

Initial Flow Period Minutes 30 (B) 29 P.S.I. to (C) 30 P.S.I.

Initial Closed In Period Minutes 30 (D) 116 P.S.I.

Final Flow Period Minutes 30 (E) 32 P.S.I. to (F) 33 P.S.I.

Final Closed In Period Minutes 30 (G) 78 P.S.I.

Final Hydrostatic Pressure (H) 1515 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Page 2 of 3 Pages

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Calcara No. 1

Date 2-14-05 Sec. 19 Twp. 19 S Range 14 W

Formation Test No. 2 Interval Tested From 3,231 ft. to 3,250 ft. Total Depth 3,250 ft.

Formation Lansing/Kansas City "A"

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>44</u> CP	<u>40</u> CP
Weight	<u>9.1</u>	<u>8.9</u>
Water Loss	<u>12.0</u> CC	<u>14.0</u> CC
PH Factor	<u>9.5</u>	<u>9.5</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>1.70</u> @ <u>50</u> °F. <u>4,900</u> ppm	
Mud Pit Sample	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample Filtrate	<u>1.50</u> @ <u>65</u> °F. <u>4,300</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Jim Musgrove

Remarks Pit filtrate triton dish chlorides were 4,000 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: JIM MUSGROVE

Phone: Fax: e-mail:

Well Information:

Name: CALCARA #1

Operator: L D DRILLING INC

Location-Downhole: DST #2 3231-3250

Location-Surface:

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D20

Test Unit: 2

Start Date: 2005/02/14

Start Time: 17:14:00

End Date: 2005/02/14

End Time: 22:40:40

Report Date: 2005/02/14

Prepared By: JOHN RIEDL

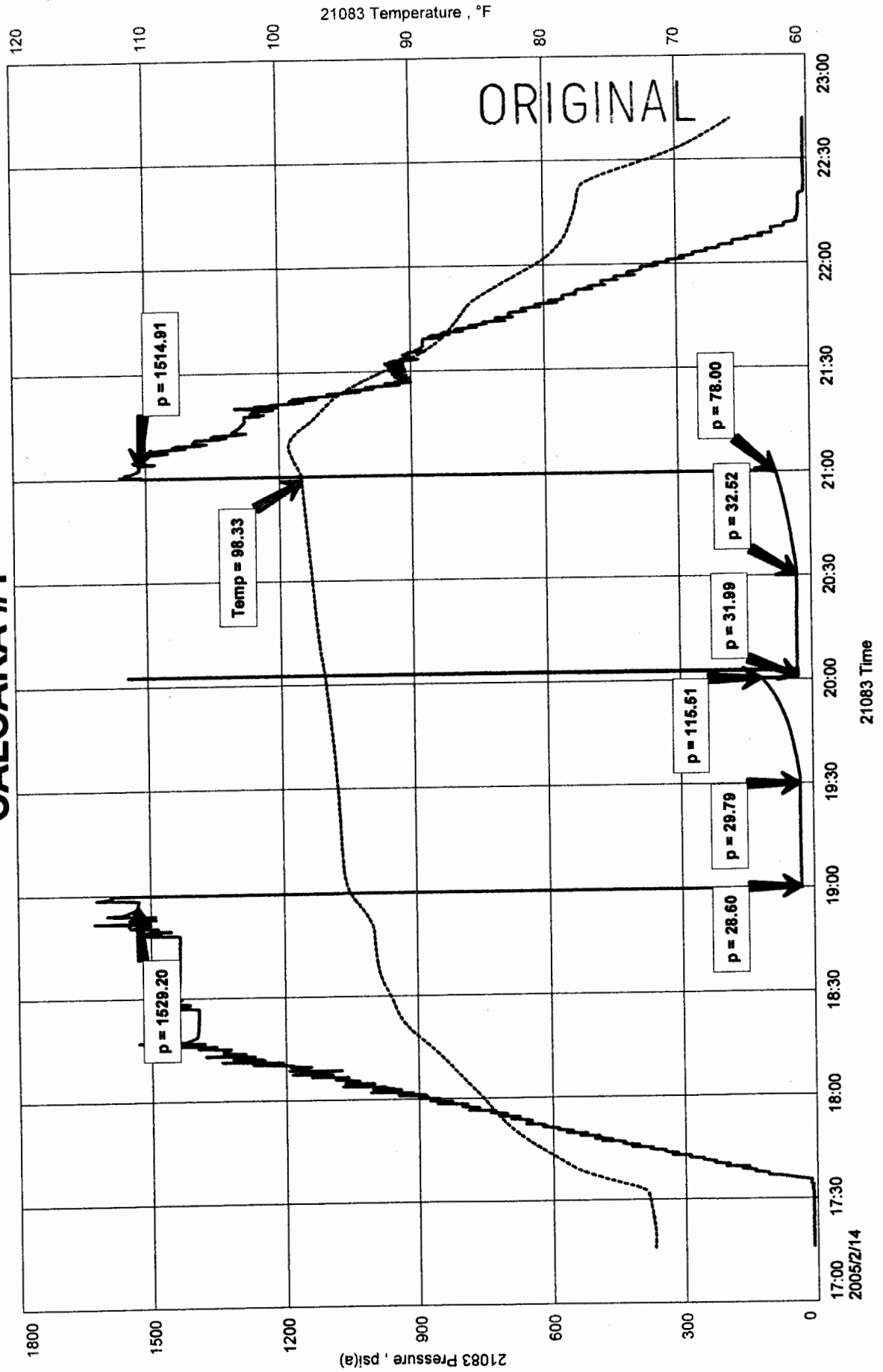
Remarks:

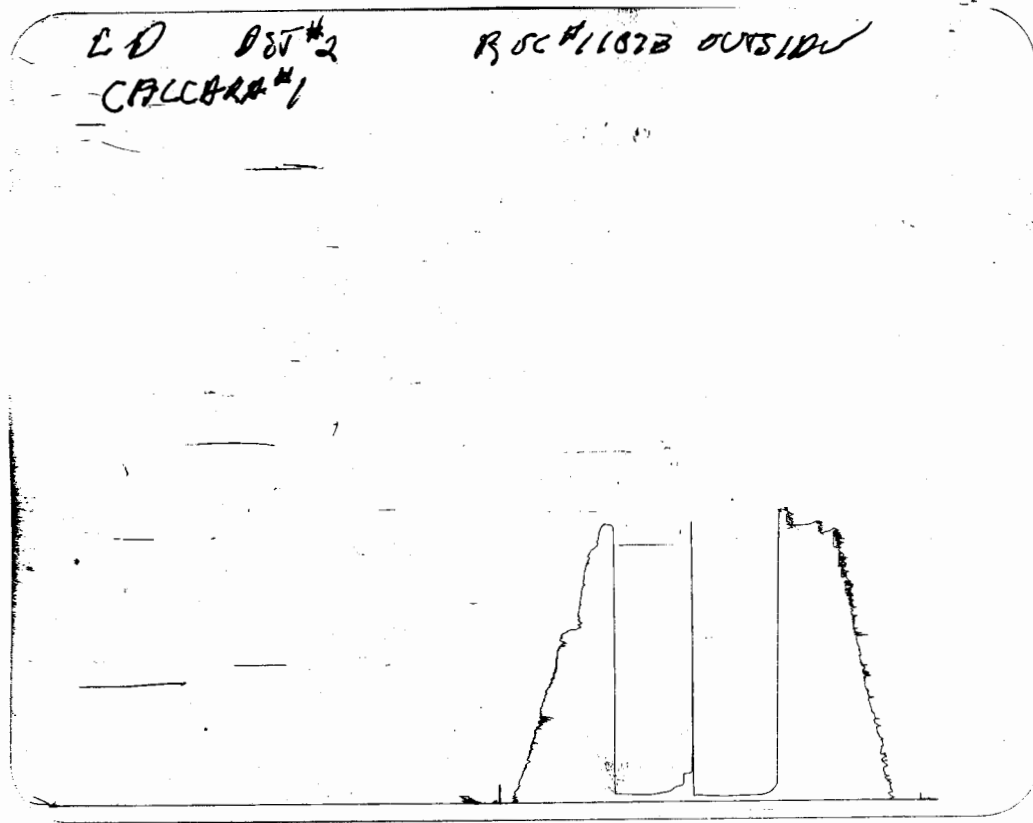
Qualified By: JIM MUSGROVE

RECOVERY: 10' DRILLING MUD

L D DRILLING INC
DST #2 3231-3250
Start Test Date: 2005/02/14
Final Test Date: 2005/02/14

CALCARA #1





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1529	1529
(B) First Initial Flow Pressure.....	29	29
(C) First Final Flow Pressure	30	30
(D) Initial Closed-in Pressure	116	116
(E) Second Initial Flow Pressure	32	32
(F) Second Final Flow Pressure.....	33	33
(G) Final Closed-in Pressure.....	78	78
(H) Final Hydrostatic Mud	1515	1515

PSI

PSI

PSI

PSI

PSI

PSI

PSI

PSI



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21083.D21

ORIGINAL

Page 1 of 3 Pages

Company L. D. Drilling, Inc. Lease & Well No. Calcara No. 1
Elevation 1906 KB Formation Lansing/Kansas City "B"-"D" Effective Pay -- Ft. Ticket No. J1611
Date 2-15-05 Sec. 19 Twp. 19S Range 14W County Barton State Kansas
Test Approved By Jim Musgrove Diamond Representative John C. Riedl
Formation Test No. 3 Interval Tested from 3,250 ft. to 3,291 ft. Total Depth 3,291 ft.
Packer Depth 3,245 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3,250 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set -- ft.
Top Recorder Depth (Inside) 3,253 ft. Recorder Number 21083 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,288 ft. Recorder Number 11073 Cap. 4,000 psi
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi
Drilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length -- ft. I.D. -- in.
Mud Type Chemical Viscosity 42 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 3,220 ft. I.D. 3 1/2 in.
Chlorides 6,000 P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 41 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, 6 in., blow. No blow back during shut-in.
2nd Open: Weak, 4 in., blow decreasing to 1/2 in. No blow back during shut-in.

Recovered 70 ft. of gas in pipe
Recovered 50 ft. of very slightly oily & gas cut mud = .710000 bbls. (Grind out: 1%-oil; 5%-gas; 94%-mud)
Recovered 50 ft. of TOTAL FLUID = .710000 bbls.
Recovered -- ft. of
Recovered -- ft. of

Remarks

Time Set Packer(s) 9:25 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 12:25 ~~P.M.~~ ^{A.M.} Maximum Temperature 101°
Initial Hydrostatic Pressure (A) 1586 P.S.I.
Initial Flow Period Minutes 30 (B) 33 P.S.I. to (C) 33 P.S.I.
Initial Closed In Period Minutes 45 (D) 199 P.S.I.
Final Flow Period Minutes 45 (E) 29 P.S.I. to (F) 35 P.S.I.
Final Closed In Period Minutes 60 (G) 146 P.S.I.
Final Hydrostatic Pressure (H) 1552 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Page 2 of 3 Pages

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Calcara No. 1

Date 2-15-05 Sec. 19 Twp. 19 S Range 14 W

Formation Test No. 3 Interval Tested From 3,250 ft. to 3,291 ft. Total Depth 3,291 ft.

Formation Lansing/Kansas City "B"- "D"

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>42</u> CP	<u>45</u> CP
Weight	<u>9.2</u>	<u>9.0</u>
Water Loss	<u>12.0</u> CC	<u>10.0</u> CC
PH Factor	<u>9.5</u>	<u>9.5</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>1.70</u> @ <u>45</u> °F. <u>5,300</u> ppm	
Mud Pit Sample	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample Filtrate	<u>1.50</u> @ <u>50</u> °F. <u>5,900</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Jim Musgrove

Remarks Pit filtrate triton dish chlorides were 6,000 Ppm.
Recovery filtrate triton dish chlorides were 5,000 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: CALCARA #3

Operator: L D DRILLING INC

Location-Downhole: DST #3 3250-3291

Location-Surface: S19/19S/14W BARTON COUN TY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D21

Test Unit: 2

Start Date: 2005/02/15

Start Time: 08:02:00

End Date: 2005/02/15

End Time: 14:15:50

Report Date: 2005/02/15

Prepared By: JOHN RIEDL

Remarks:

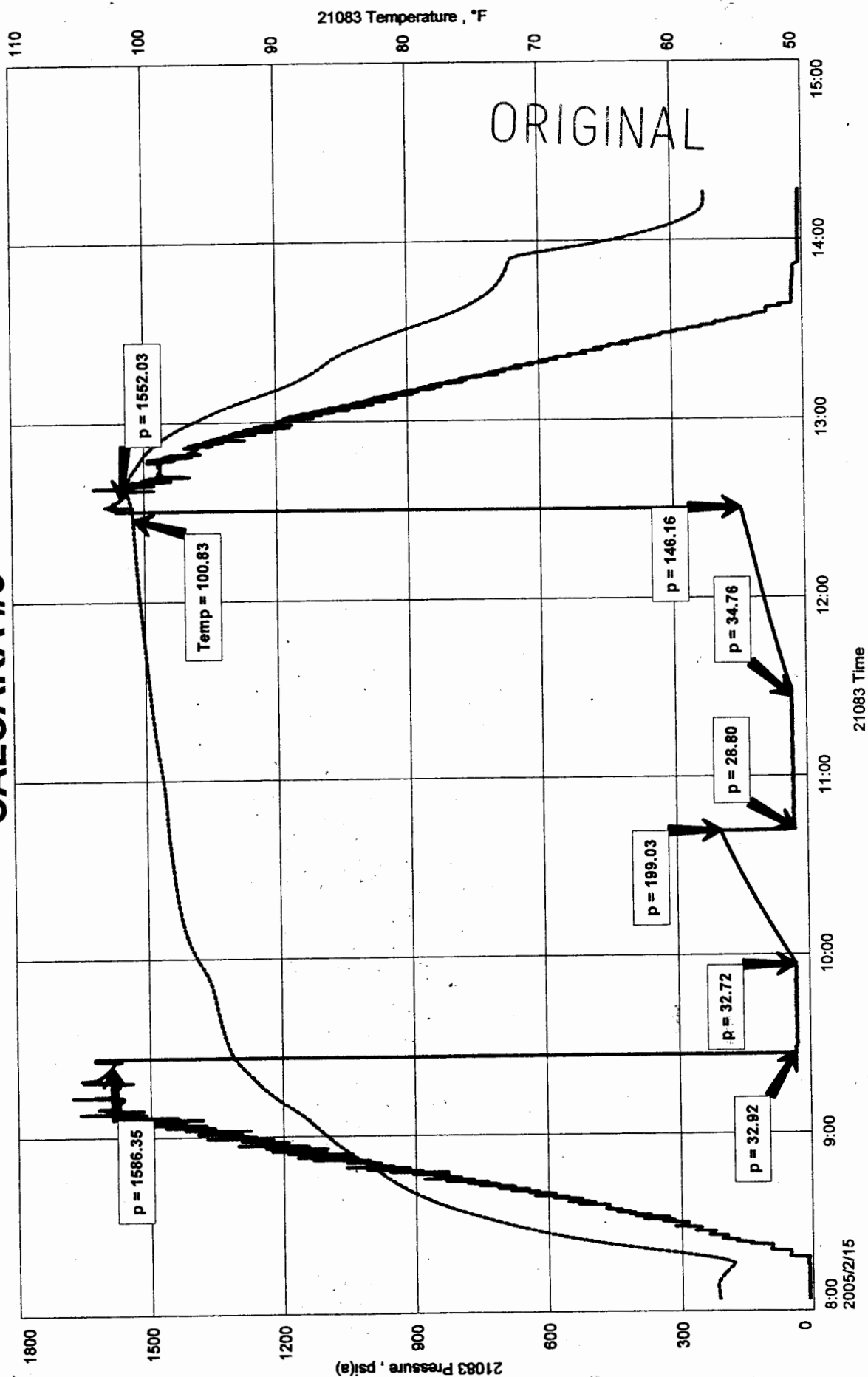
Qualified By: JIM MUSGROVE

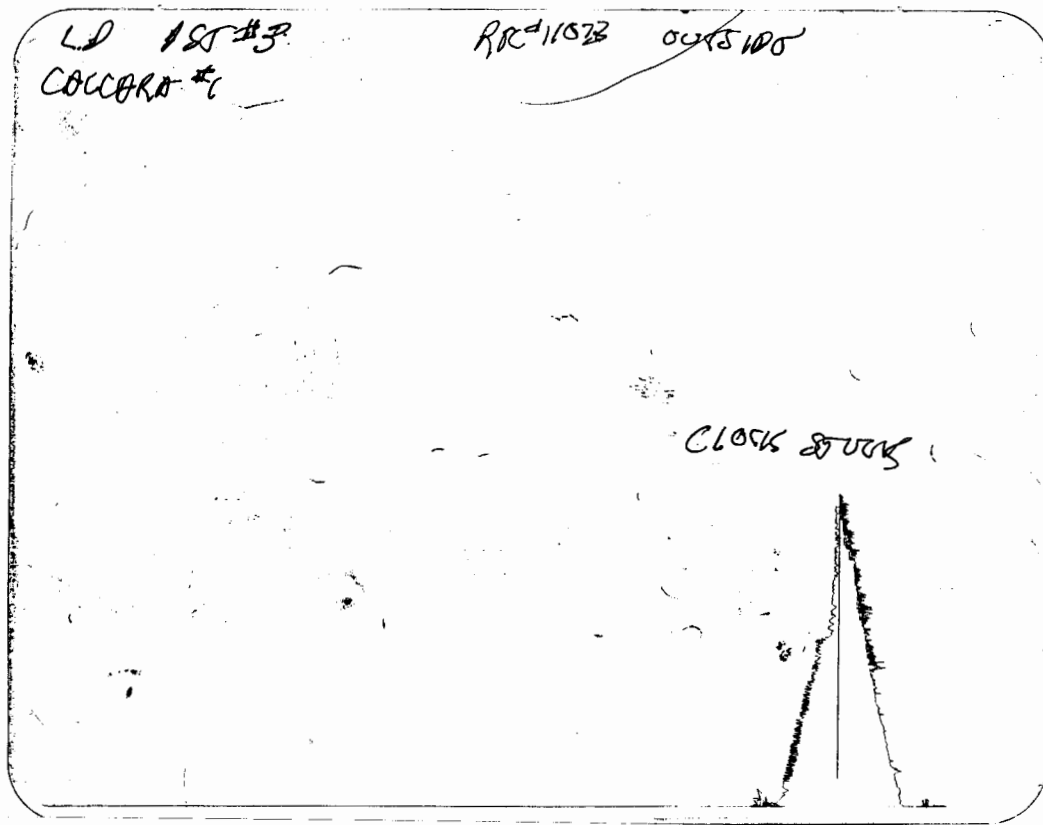
RECOVERY: 70' GAS IN PIPE
50' SLO+GCM {1%OIL 5% GAS 94%MUD}

CALCARA #3
Formation: LKC
Job Number: D21

L D DRILLING INC
DST #3 3250-3291
Start Test Date: 2005/02/15
Final Test Date: 2005/02/15

CALCARA #3





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1586	1586
(B) First Initial Flow Pressure	33	33
(C) First Final Flow Pressure	33	33
(D) Initial Closed-in Pressure	199	199
(E) Second Initial Flow Pressure	29	29
(F) Second Final Flow Pressure	35	35
(G) Final Closed-in Pressure	146	146
(H) Final Hydrostatic Mud	1552	1552



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21083.D22

ORIGINAL

Page 1 of 3 Pages

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

Elevation 1906 KB Formation Lansing/Kansas City "G" Effective Pay --Ft. Ticket No. J1612

Date 2-15-05 Sec. 19 Twp. 19S Range 14W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,292 ft. to 3,310 ft. Total Depth 3,310 ft.

Packer Depth 3,287 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,292 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,295 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,307 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 43 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 12.0 cc. Drill Pipe Length 3,262 ft. I.D. 3 1/2 in.

Chlorides 6,000 P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 18 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 blow. Off bottom of bucket in 10 mins. No blow back during shut-in.

2nd Open: Strong blow slowly building to 10 ins. No blow back during shut-in.

Recovered 700 ft. of water with a strong sulfur odor = 9.940000 bbls. (Chlorides: 60,000 Ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 9:48 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 12:03 ~~P.M.~~ ^{A.M.} Maximum Temperature 109°

Initial Hydrostatic Pressure (A) 1625 P.S.I.

Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 190 P.S.I.

Initial Closed In Period Minutes 30 (D) 1033 P.S.I.

Final Flow Period Minutes 30 (E) 195 P.S.I. to (F) 315 P.S.I.

Final Closed In Period Minutes 45 (G) 1036 P.S.I.

Final Hydrostatic Pressure (H) 1549 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Page 2 of 3 Pages

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Calcara No. 1

Date 2-15-05 Sec. 19 Twp. 19 S Range 14 W

Formation Test No. 4 Interval Tested From 3,292 ft. to 3,310 ft. Total Depth 3,310 ft.

Formation Lansing/Kansas City "G"

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>43</u> CP	<u>--</u> CP
Weight	<u>9.1</u>	<u>--</u>
Water Loss	<u>12.0</u> CC	<u>--</u> CC
PH Factor	<u>9.5</u>	<u>7.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>1.30 @ 55 °F.</u>	<u>58,000 ppm</u>
Recovery Mud	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Recovery Mud Filtrate	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Mud Pit Sample	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Mud Pit Sample Filtrate	<u>1.80 @ 50 °F.</u>	<u>4,700 ppm</u>

Sample Taken By JOHN C. RIEDL

Witness By Jim Musgrove

Remarks Pit filtrate triton dish chlorides were 6,000 Ppm.
Recovery water dish chlorides were 60,000 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: CALCARA #1

Operator: L D DRILLING INC

Location-Downhole: DST #4 3292-3310

Location-Surface: S19/19S/14W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D22

Test Unit: 2

Start Date: 2005/02/15

Start Time: 20:28:00

End Date: 2005/02/16

End Time: 02:16:10

Report Date: 2005/02/16

Prepared By: JOHN RIEDL

Remarks:

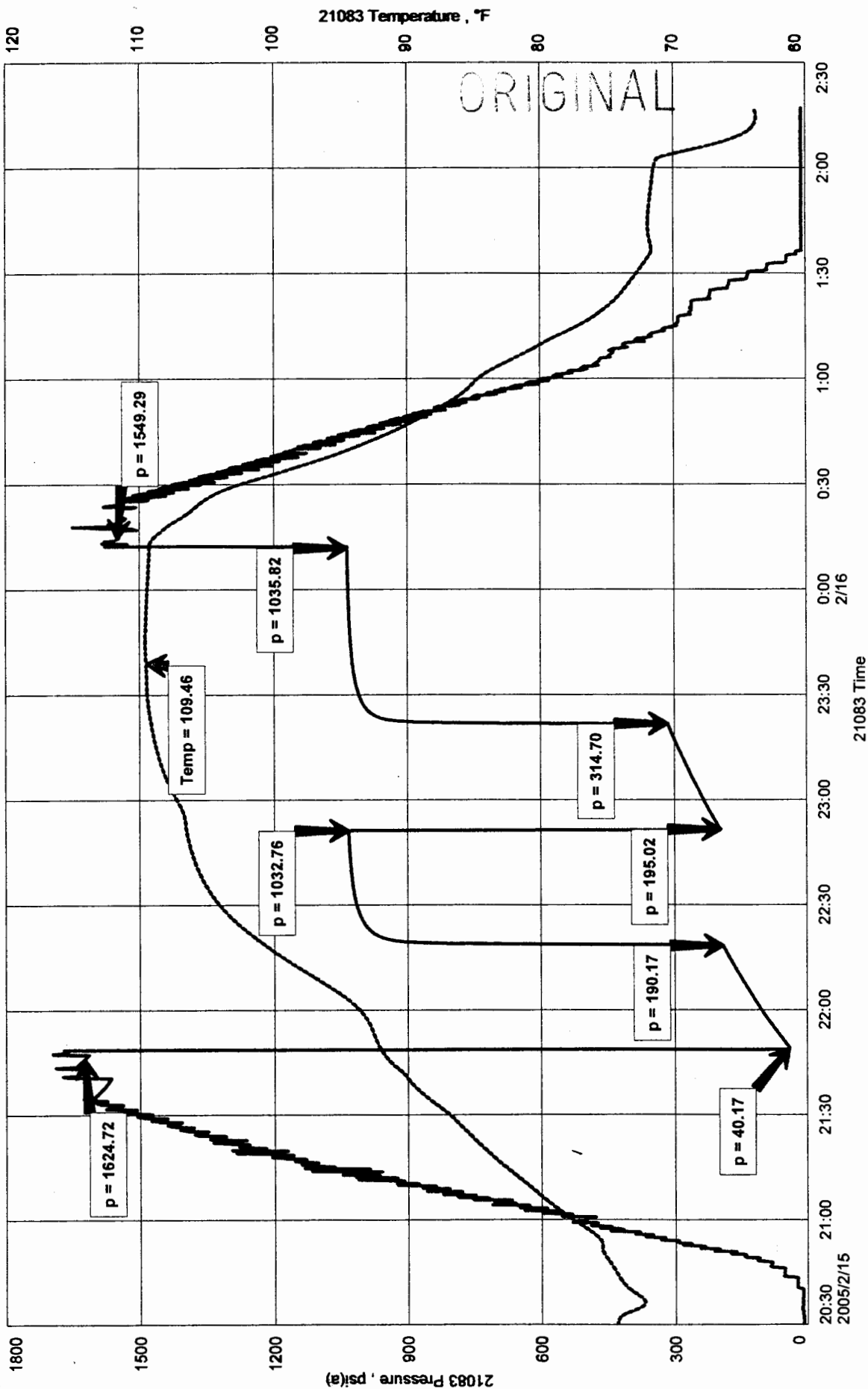
Qualified By: JIM M USGROVE

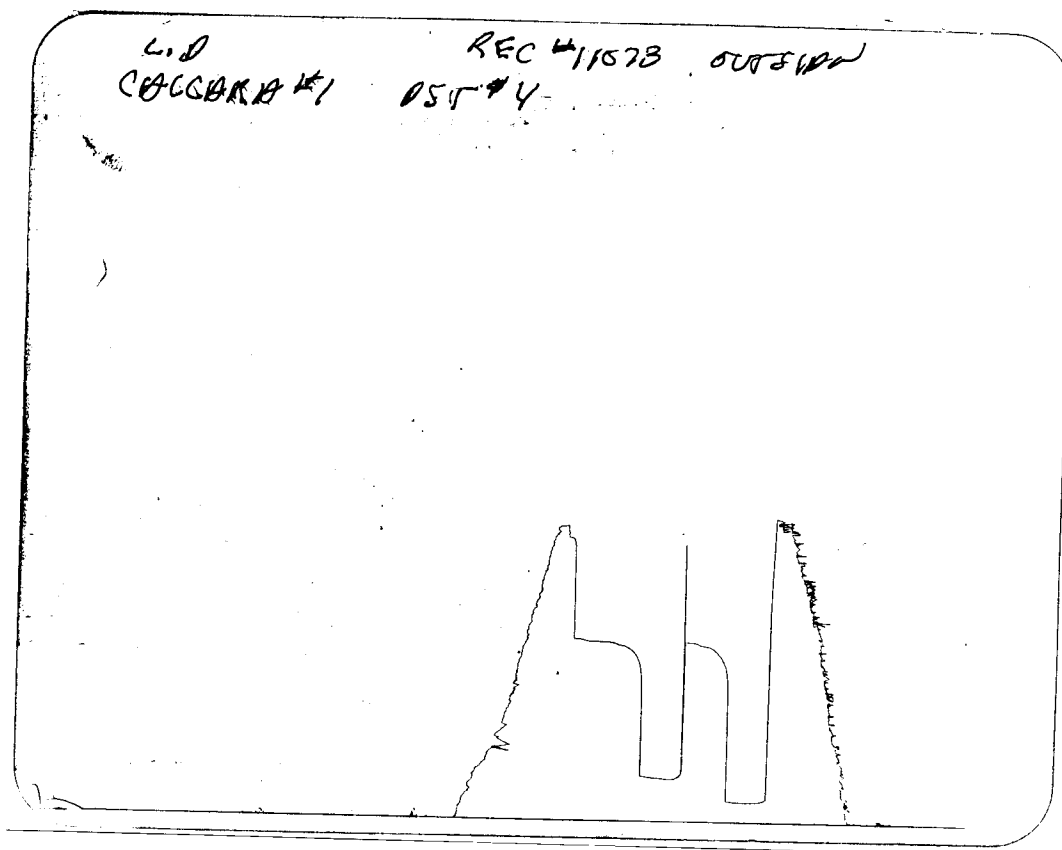
REC: 700' WATER {CHLORIDES 60,000Ppm}

CALCARA #1
 Formation: LKC "G"
 Job Number: D22

LD DRILLING INC
 DST #4 3292-3310
 Start Test Date: 2005/02/15
 Final Test Date: 2005/02/16

CALCARA #1





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1625	1625
(B) First Initial Flow Pressure.....	40	40
(C) First Final Flow Pressure	190	190
(D) Initial Closed-in Pressure	1033	1033
(E) Second Initial Flow Pressure	195	195
(F) Second Final Flow Pressure.....	315	315
(G) Final Closed-in Pressure.....	1036	1036
(H) Final Hydrostatic Mud	1549	1549



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21083.D23

ORIGINAL

Page 1 of 3 Pages

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

Elevation 1906 KB Formation Lansing/Kansas City "H"-L" Effective Pay --Ft. Ticket No. J1613

Date 2-16-05 Sec. 19 Twp. 19S Range 14W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 3,350 ft. to 3,420 ft. Total Depth 3,420 ft.

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

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

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,353 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,417 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 44 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.2 Water Loss 15.0 cc. Drill Pipe Length 3,320 ft. I.D. 3 1/2 in.

Chlorides 9,000 P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 70 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 blow. Off bottom of bucket in 10 mins. 2 in. blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 15 mins. 2 in. blow back during shut-in.

Recovered 800 ft. of gas in pipe

Recovered 120 ft. of heavy oil & gas cut mud = 1.704000 bbls. (Grind out: 30%-oil; 25%-gas; 45%-mud)

Recovered 190 ft. of oil & gas cut watery mud = 2.698000 bbls. (Grind out: 10%-oil; 20%-gas; 15%-water; 55%-mud)

Recovered 190 ft. of slightly oil cut gassy water = 2.698000 bbls. (Grind out: 3%-oil; 10%-gas; 87%-water)

Recovered 250 ft. of gassy water = 3.550000 bbls. (Grind out: 10%-gas; 90%-water) Chlorides: 54,000 Ppm

Recovered 750 ft. of TOTAL FLUID = 10.650000 bbls.

Remarks

Time Set Packer(s) 1:30 P.M. Time Started Off Bottom 4:15 P.M. Maximum Temperature 108°

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

Initial Flow Period Minutes 30 (B) 53 P.S.I. to (C) 196 P.S.I.

Initial Closed In Period Minutes 30 (D) 985 P.S.I.

Final Flow Period Minutes 45 (E) 213 P.S.I. to (F) 338 P.S.I.

Final Closed In Period Minutes 60 (G) 977 P.S.I.

Final Hydrostatic Pressure (H) 1575 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Page 2 of 3 Pages

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Calcara No. 1

Date 2-16-05 Sec. 19 Twp. 19 S Range 14 W

Formation Test No. 5 Interval Tested From 3,350 ft. to 3,420 ft. Total Depth 3,420 ft.

Formation Lansing/Kansas City "H"-"L"

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>44</u> CP	<u>--</u> CP
Weight	<u>9.2</u>	<u>--</u>
Water Loss	<u>15.0</u> CC	<u>--</u> CC
PH Factor	<u>9.5</u>	<u>7.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>1.70</u> @ <u>50</u> °F.	<u>55,000</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>.80</u> @ <u>55</u> °F.	<u>10,000</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Jim Musgrove

Remarks Pit filtrate triton dish chlorides were 9,000 Ppm.
Recovery water dish chlorides were 54,000 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: CALCARA #1

Operator: L D DRILLING INC

Location-Downhole: DST #5 3350-3420

Location-Surface: S19/19S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D23

Test Unit: 2

Start Date: 2005/02/16 Start Time: 12:32:00

End Date: 2005/02/16 End Time: 18:49:00

Report Date: 2005/02/16 Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

Remarks:

REC: 800' GIP

120' 0+GCWWM {30%OIL 25%GAS 45%MUD}

190' 0+GCWM [10%OIL 20%GAS 15%WATER 55%MUD]

190' SLOGGW [3%OIL 10%GAS 87%WATER]

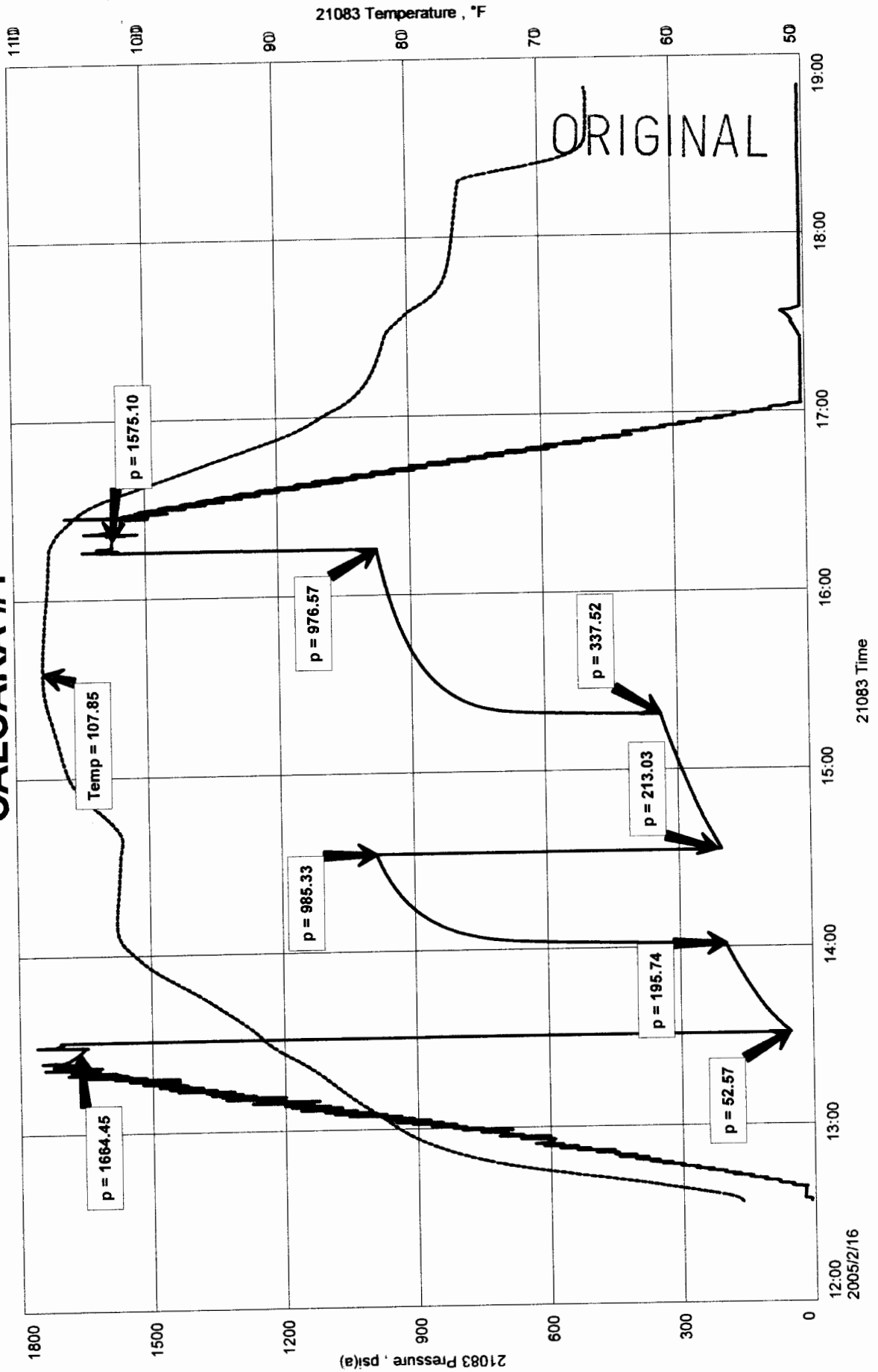
250' GW [10%GAS 90%WATER 54,000Ppm CHLORIDES]

750' TOTAL FLUID RECOVERY

CALCARA #1
Formation: LKC "H" THRU "L"
Job Number: D23

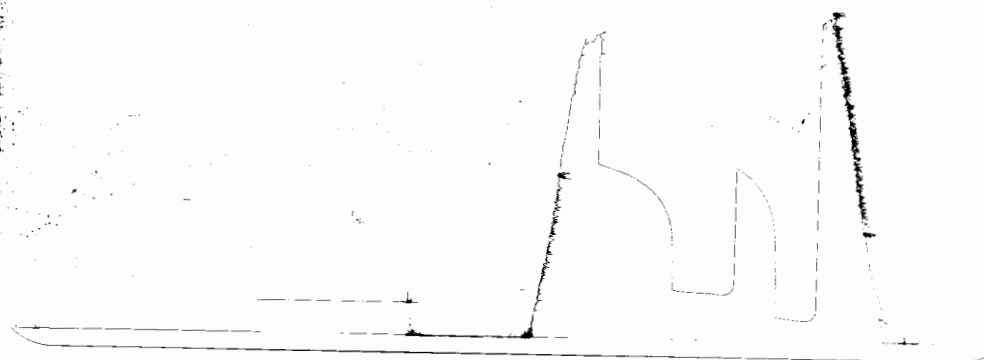
L D DRILLING INC
DST #5 3350-3420
Start Test Date: 2005/02/16
Final Test Date: 2005/02/16

CALCARA #1



LA
CALC #1 PST HS

ROT #11073 OUTSIDE 485899



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.....	53	53
(C) First Final Flow Pressure	196	196
(D) Initial Closed-in Pressure	985	985
(E) Second Initial Flow Pressure	213	213
(F) Second Final Flow Pressure.....	338	338
(G) Final Closed-in Pressure.....	977	977
(H) Final Hydrostatic Mud	1575	1575

PSI

PSI

PSI

PSI

PSI

PSI

PSI

PSI



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21083.D24

ORIGINAL

Page 1 of 4 Pages

Company L. D. Drilling, Inc. Lease & Well No. Calcara No. 1
Elevation 1906 KB Formation Conglomerate Sand/Arbuckle Effective Pay -- Ft. Ticket No. J1614
Date 2-17-05 Sec. 19 Twp. 19S Range 14W County Barton State Kansas
Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 6 Interval Tested from 3,450 ft. to 3,560 ft. Total Depth 3,560 ft.
Packer Depth 3,445 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3,450 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,453 ft. Recorder Number 21083 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,557 ft. Recorder Number 11073 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi
Drilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length -- ft. I.D. -- in.
Mud Type Chemical Viscosity 40 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.4 Water Loss 30.0 cc. Drill Pipe Length 3,420 ft. I.D. 3 1/2 in.
Chlorides 9,000 P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 110 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 blow. Off bottom of bucket in 1 min. Gas to surface in 4 mins. No blow back during shut-in.
(SEE GAS VOLUME REPORT)
2nd Open: Strong blow. Gas to surface throughout. Weak blow back during shut-in. (SEE GAS VOLUME REPORT)

Recovered 300 ft. of slightly oil cut muddy water = 4.260000 bbls. (Grind out: 5%-oil; 30%-mud; 65%-sulfur water)
Recovered ft. of Chlorides: 20,000 Ppm
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks

Time Set Packer(s) 2:10 P.M. Time Started Off Bottom 5:10 P.M. Maximum Temperature 111°
Initial Hydrostatic Pressure (A) 1693 P.S.I.
Initial Flow Period Minutes 30 (B) 267 P.S.I. to (C) 277 P.S.I.
Initial Closed In Period Minutes 45 (D) 1115 P.S.I.
Final Flow Period Minutes 45 (E) 284 P.S.I. to (F) 251 P.S.I.
Final Closed In Period Minutes 60 (G) 1063 P.S.I.
Final Hydrostatic Pressure (H) 1633 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Page 2 of 4 Pages

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Calcara No. 1

Date 2-17-05 Sec. 19 Twp. 19 S Range 14 W

Formation Test No. 6 Interval Tested From 3,450 ft. to 3,560 ft. Total Depth 3,560 ft.

Formation Conglomerate Sand/Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>40</u> CP	<u>--</u> CP
Weight	<u>9.4</u>	<u>--</u>
Water Loss	<u>30.0</u> CC	<u>--</u> CC
PH Factor	<u>9.0</u>	<u>7.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.40</u> @ <u>55</u> °F.	<u>22,000</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>.80</u> @ <u>55</u> °F.	<u>10,000</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Jim Musgrove

Remarks Pit filtrate triton dish chlorides were 9,000 Ppm.
Recovery water dish chlorides were 20,000 Ppm.



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

GAS VOLUME REPORT

Page 3 of 4 Pages

Company L. D. Drilling, Inc. Lease & Well No. Calcara No. 1
Date 2-17-05 Sec. 19 Twp. 19 S Rge. 14 W Location SW SE SE County Barton State KS
Drilling Contractor VAL Energy, Inc. - Rig 3 Formation Conglomerate Sand/Arbuckle DST No. 6
Remarks: 1st Open: Gas to surface in 4 mins. Gas sample taken.
2nd Open: Gas to surface throughout.

INITIAL FLOW

Open Tool: 2:10 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
2:20 p.m.	1 in.	10 psi	472,000
2:30 p.m.	1 in.	20 psi	725,000
2:40 p.m.	1 in.	26 psi	865,000

FINAL FLOW

Open Tool: 3:25 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
3:35 p.m.	1 in.	26 psi	865,000
3:45 p.m.	1 in.	23 psi	796,000
3:55 p.m.	1 in.	22 psi	773,000
4:05 p.m.	1 in.	21 psi	749,000
4:10 p.m.	1 in.	20 psi	725,000

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: CALCARA #1

Operator: L D DRILLING INC

Location-Downhole: DST #6 3450-3560

Location-Surface: S19/19S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D24

Test Unit: 2

Start Date: 2005/02/17

Start Time: 12:07:00

End Date: 2005/02/17

End Time: 19:30:40

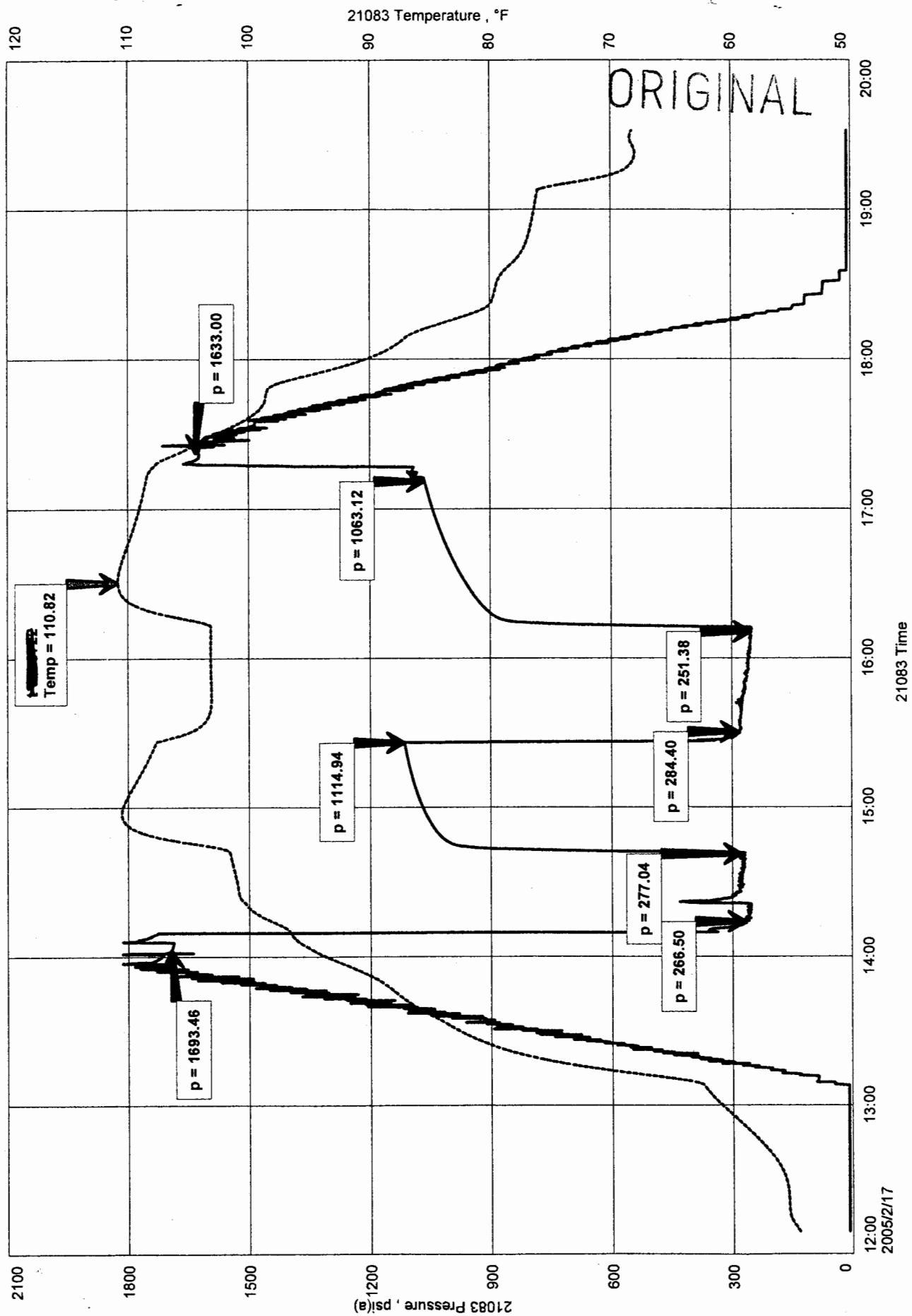
Report Date: 2005/02/17

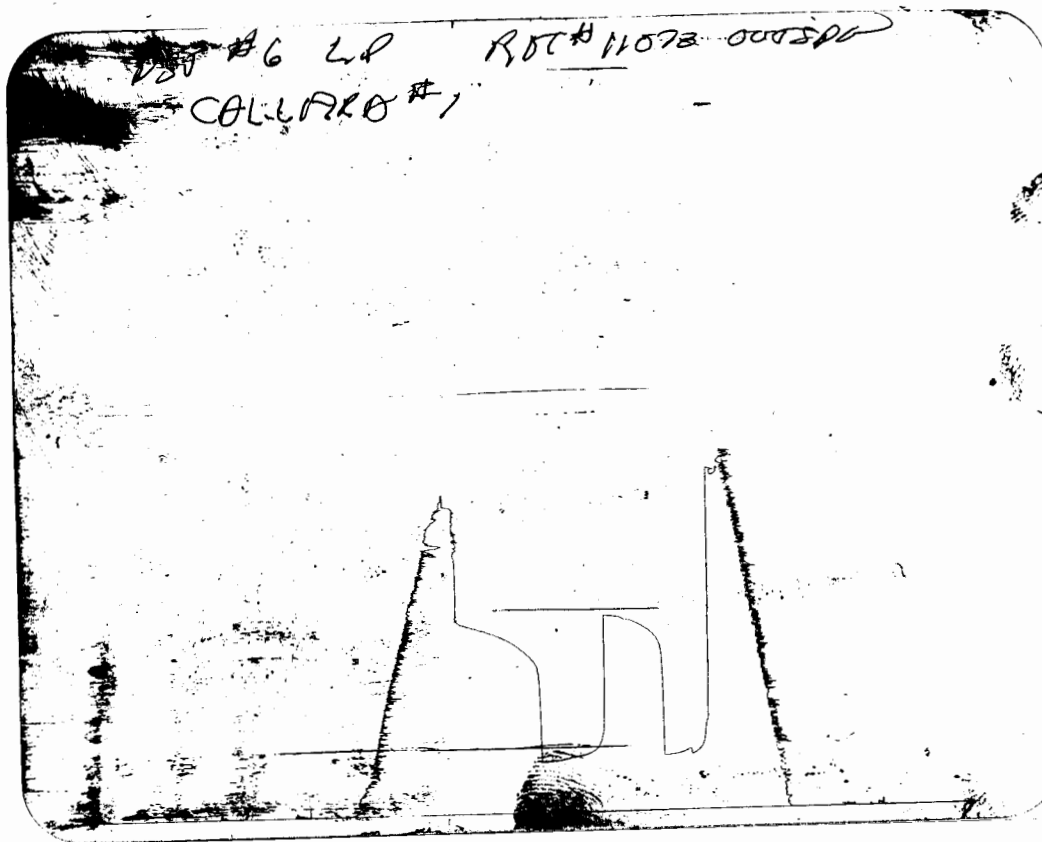
Prepared By: JOHN RIEDL

Remarks:

Qualified By: JIM MUSGROVE

REC: 300' SLOCMW {5%OIL 30%MUD 65%WATER}
GAS TO SURFACE 4 MINUTES 1ST FLOW {SEE GAS VOLUME REPORT}





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1693	1693
(B) First Initial Flow Pressure.....	267	267
(C) First Final Flow Pressure	277	277
(D) Initial Closed-in Pressure	1115	1115
(E) Second Initial Flow Pressure	284	284
(F) Second Final Flow Pressure.....	251	251
(G) Final Closed-in Pressure.....	1063	1063
(H) Final Hydrostatic Mud	1633	1633