

15-167-23610

13-125-14w

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30046.D685

Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Reif No. 1-13
Elevation 1740 EGL Formation Lansing/Kansas City "A" & "B" Effective Pay -- Ft. Ticket No. J2481
Date 2-1-10 Sec. 13 Twp. 12S Range 14W County Russell State Kansas
Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 2,957 ft. to 2,992 ft. Total Depth 2,992 ft.

Packer Depth 2,952 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,957 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,960 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 2,989 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Royal 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 7.6 cc. Drill Pipe Length 2,937 ft. I.D. 3 1/2 in.

Chlorides 4,800 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 35 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. Dead in 15 mins. No blow back during shut-in.

2nd Open: No blow. Flushed tool & received a weak, short blow. No blow back during shut-in.

Recovered 15 ft. of oil specked drilling mud = .213450 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 10:50 ~~A.M.~~ P.M. Time Started Off Bottom 12:50 ~~A.M.~~ P.M. Maximum Temperature 90°

Initial Hydrostatic Pressure (A) 1416 P.S.I.

Initial Flow Period Minutes 30 (B) 25 P.S.I. to (C) 28 P.S.I.

Initial Closed In Period Minutes 30 (D) 349 P.S.I.

Final Flow Period Minutes 30 (E) 29 P.S.I. to (F) 31 P.S.I.

Final Closed In Period Minutes 30 (G) 95 P.S.I.

Final Hydrostatic Pressure (H) 1385 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: REIF 1-13

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S13/12S/14W RUSSELL

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D685

Test Unit:

Start Date: 2010/02/01

Start Time:

End Date: 2010/02/02

End Time: 21:35:00

Report Date: 2010/02/02

Prepared By: JOHN RIEDL

Remarks:

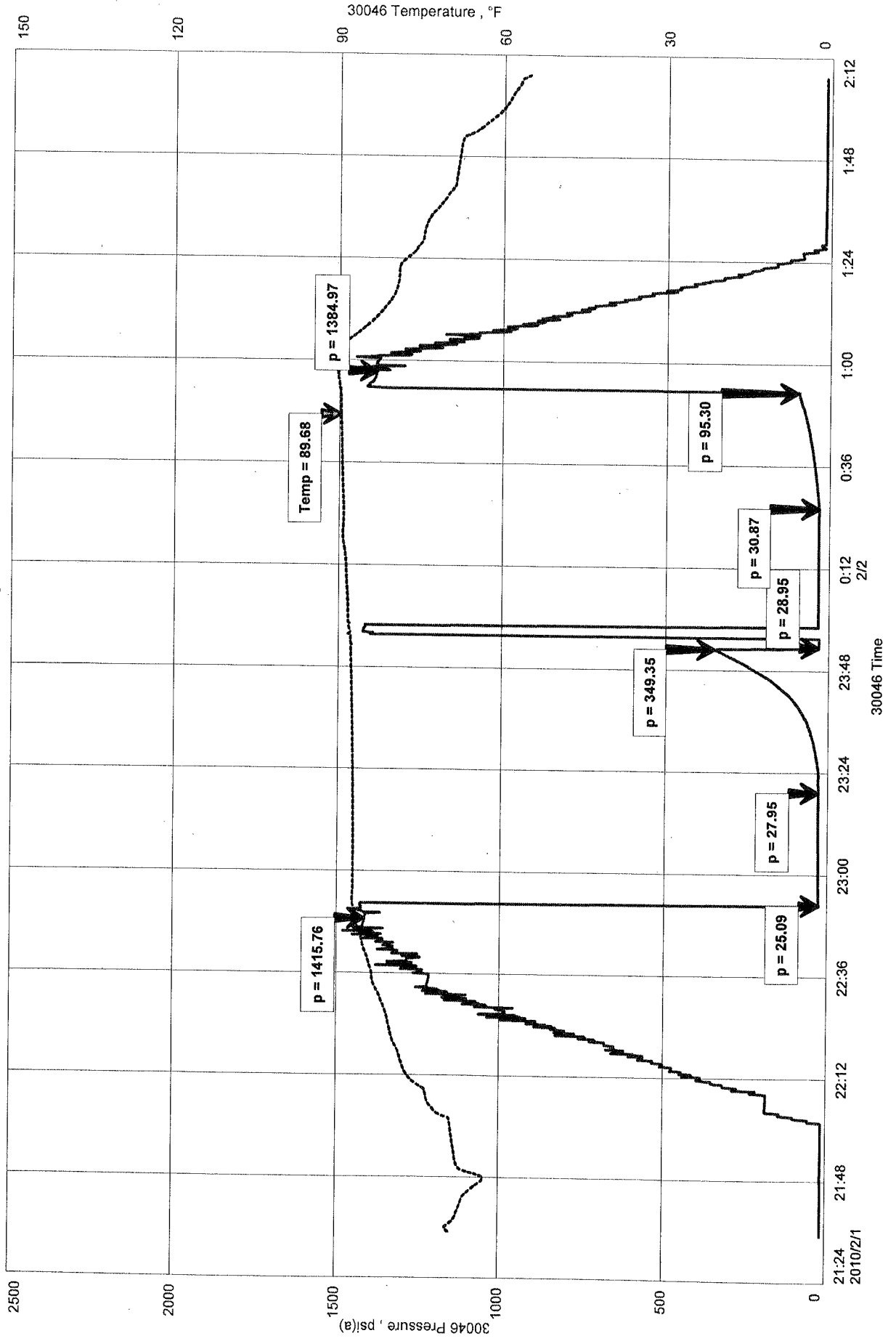
Qualified By: JIM MUSGROVE

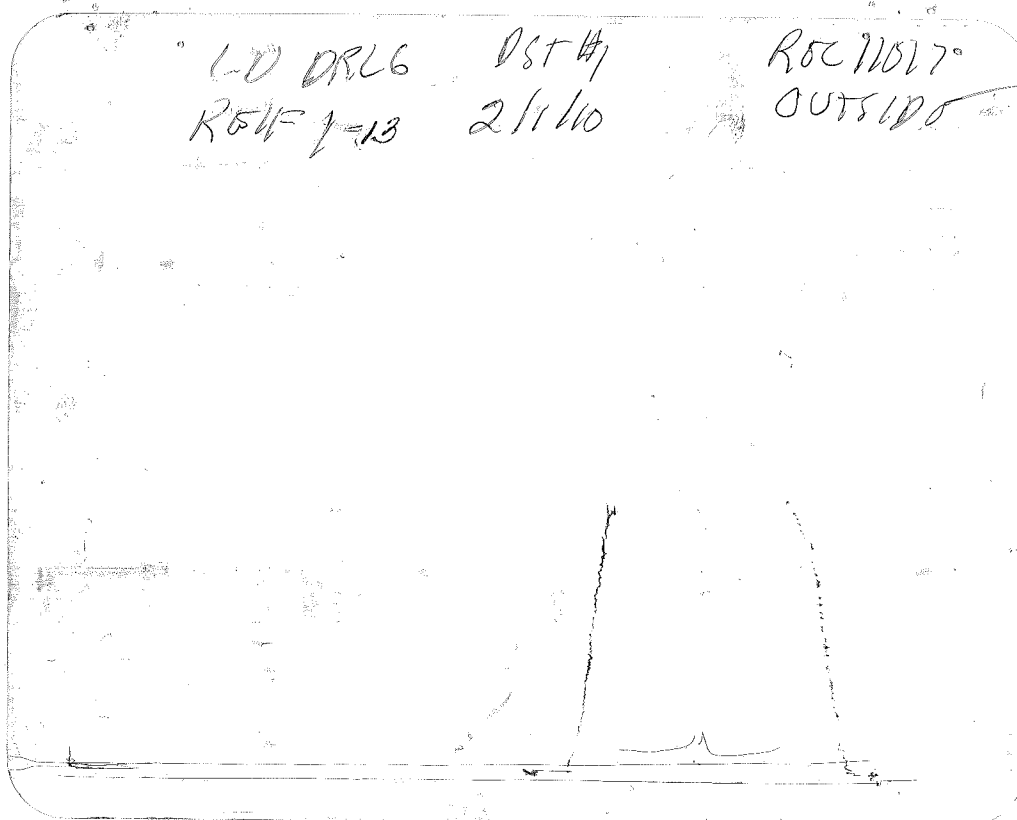
RECOVERY: 15' OIL SPECKED DRILLING MUD

L D DRILLING INC
Start Test Date: 2010/02/01
Final Test Date: 2010/02/02

REIF 1-13
Formation: LKC "A+B"
Job Number: D685

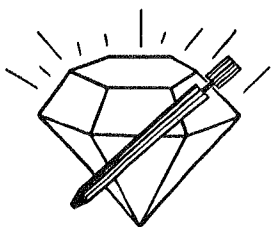
REIF 1-13





This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading	
	Field Reading			
(A) Initial Hydrostatic Mud	1416	1416	PSI	
(B) First Initial Flow Pressure.....	25	25	PSI	
(C) First Final Flow Pressure	28	28	PSI	
(D) Initial Closed-in Pressure	349	349	PSI	
(E) Second Initial Flow Pressure	29	29	PSI	
(F) Second Final Flow Pressure.....	31	31	PSI	
(G) Final Closed-in Pressure.....	95	95	PSI	
(H) Final Hydrostatic Mud	1385	1385	PSI	



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STC 30046.D686

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Company L. D. Drilling, Inc. Lease & Well No. Reif No. 1-13
Elevation 1740 EGL Formation Lansing/Kansas City "C" Effective Pay -- Ft. Ticket No. J2482
Date 2-2-10 Sec. 13 Twp. 12S Range 14W County Russell State Kansas
Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 2,987 ft. to 3,010 ft. Total Depth 3,010 ft.

Packer Depth 2,982 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,987 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,990 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,007 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number psi

Drilling Contractor Royal 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 7.6 cc. Drill Pipe Length 2,967 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 23 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, building throughout to 6 ins. No blow back during shut-in.

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

Recovered 100 ft. of clean water = 1.423000 bbls. (Chlorides: 50,000 Ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 8:15 A.M. Time Started Off Bottom 11:15 A.M. Maximum Temperature 98°

Initial Hydrostatic Pressure (A) 1432 P.S.I.

Initial Flow Period Minutes 30 (B) 24 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period Minutes 45 (D) 1116 P.S.I.

Final Flow Period Minutes 45 (E) 46 P.S.I. to (F) 71 P.S.I.

Final Closed In Period Minutes 60 (G) 1097 P.S.I.

Final Hydrostatic Pressure (H) 1411 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: REIF 1-13

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S13/12S/14W RUSSELL

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D686

Test Unit:

Start Date: 2010/02/02

Start Time: 07:15:00

End Date: 2010/02/02

End Time: 12:30:00

Report Date: 2010/02/02

Prepared By: JOHN RIEDL

Remarks:

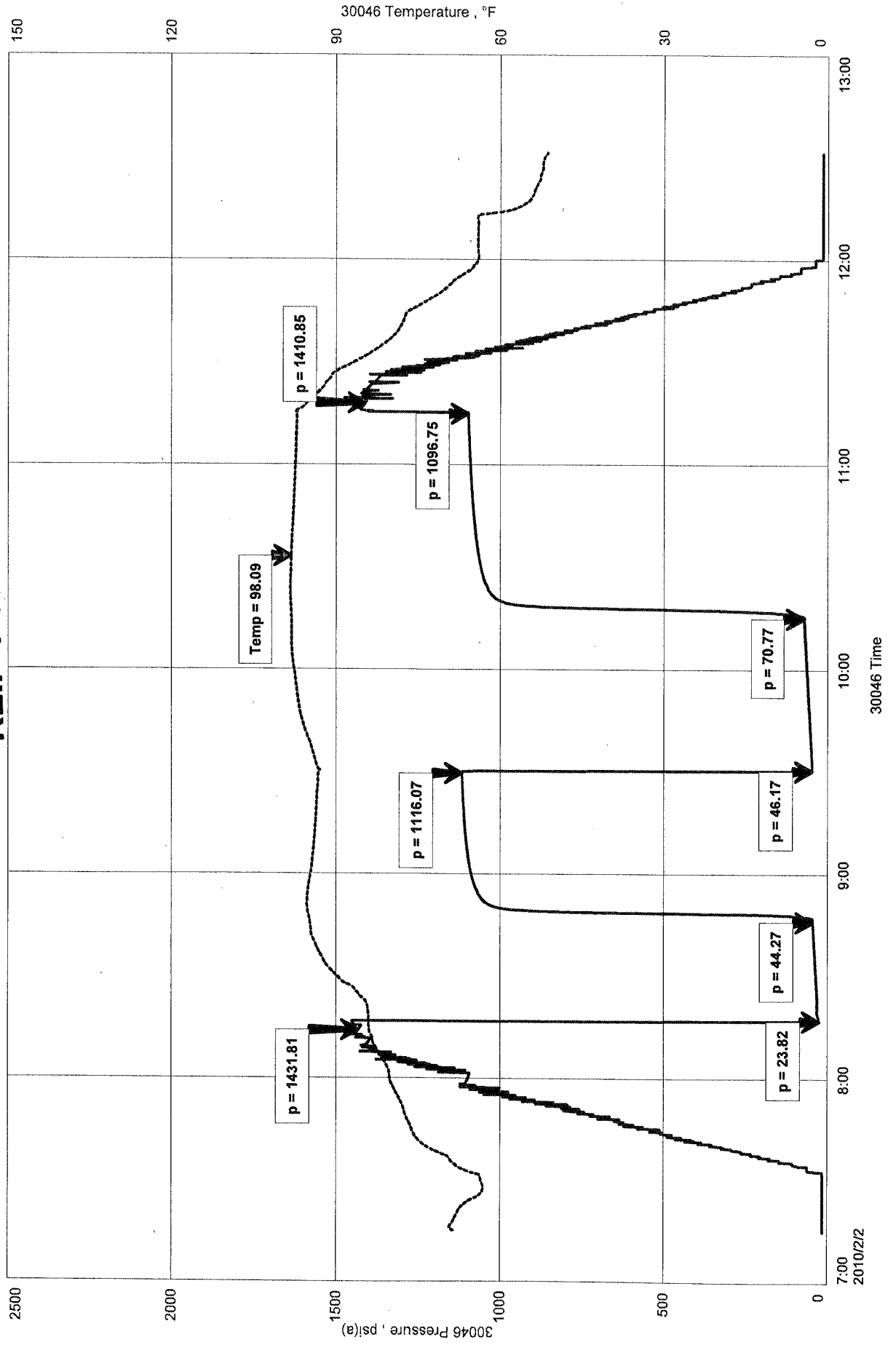
Qualified By: JIM MUSGROVE

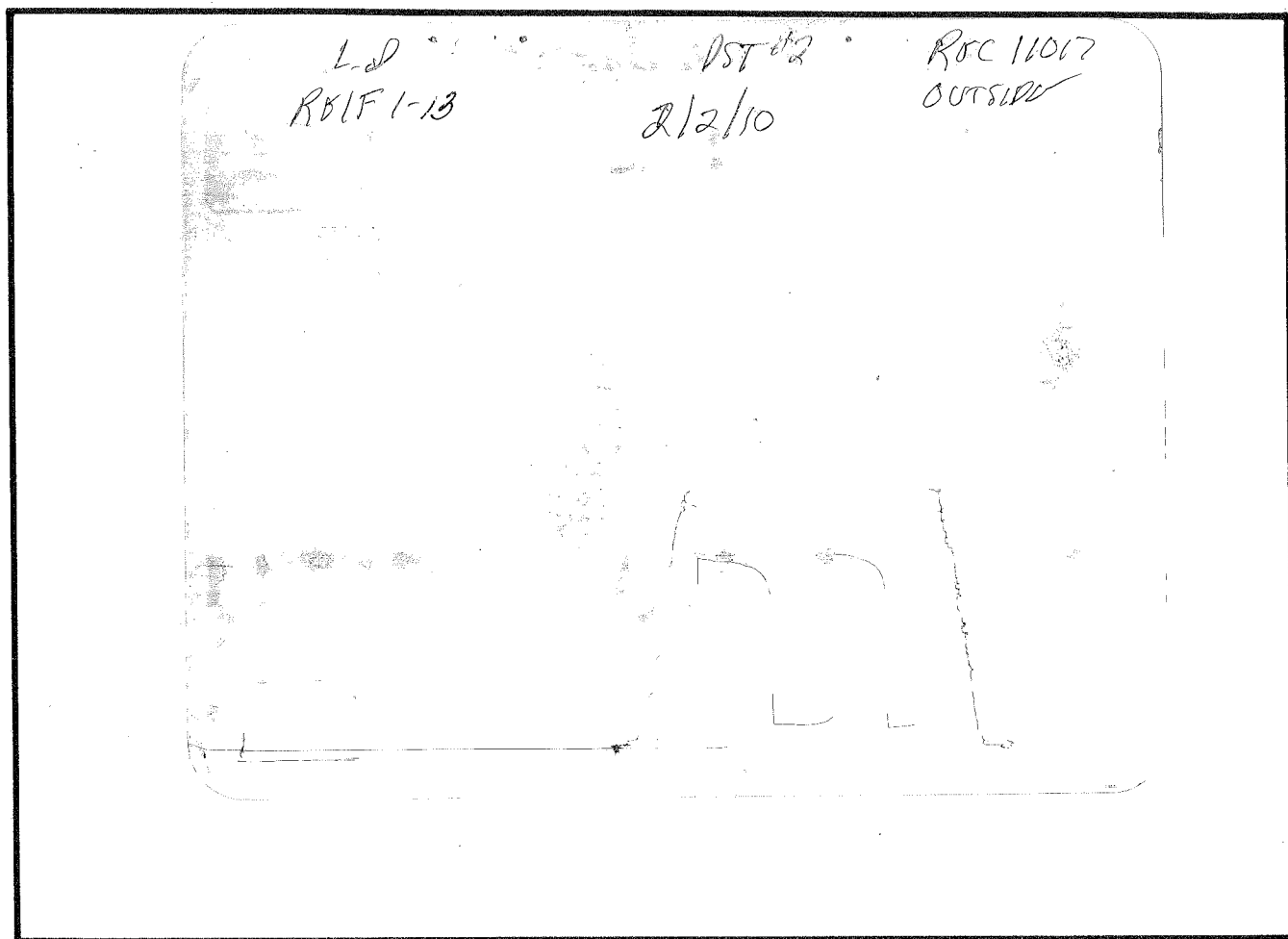
100' WATER

REIF 1-13
Formation: LKC "C"
Job Number: D686

L D DRILLING INC
Start Test Date: 2010/02/02
Final Test Date: 2010/02/02

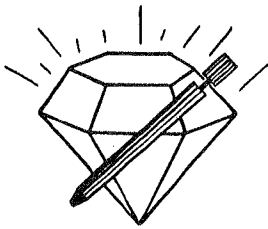
REIF 1-13





This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec.
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1432	1432	PSI
(B) First Initial Flow Pressure.....	24	24	PSI
(C) First Final Flow Pressure	44	44	PSI
(D) Initial Closed-in Pressure	1116	1116	PSI
(E) Second Initial Flow Pressure.....	46	46	PSI
(F) Second Final Flow Pressure.....	71	71	PSI
(G) Final Closed-in Pressure.....	1097	1097	PSI
(H) Final Hydrostatic Mud	1411	1411	PSI



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Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Reif No. 1-13

Elevation 1740 EGL Formation Lansing/Kansas City "E" Effective Pay -- Ft. Ticket No. J2483

Date 2-2-10 Sec. 13 Twp. 12S Range 14W County Russell State Kansas

Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,014 ft. to 3,044 ft. Total Depth 3,044 ft.

Packer Depth 3,009 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,014 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,017 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,041 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number psi

Drilling Contractor Royal 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 7.6 cc. Drill Pipe Length 2,994 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 30 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 12 mins. No blow back during shut-in.

2nd Open: No blow. No blow back during shut-in.

Recovered 5 ft. of oil specked drilling mud = .071150 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 8:10 ~~AM~~ P.M. Time Started Off Bottom 10:10 ~~AM~~ P.M. Maximum Temperature 88°

Initial Hydrostatic Pressure (A) 1442 P.S.I.

Initial Flow Period Minutes 30 (B) 26 P.S.I. to (C) 27 P.S.I.

Initial Closed In Period Minutes 30 (D) 46 P.S.I.

Final Flow Period Minutes 30 (E) 27 P.S.I. to (F) 27 P.S.I.

Final Closed In Period Minutes 30 (G) 36 P.S.I.

Final Hydrostatic Pressure (H) 1420 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: REIF 1-13

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S13/12S/14W RUSSELL

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D687

Test Unit:

Start Date: 2010/02/02

Start Time: 19:00:00

End Date: 2010/02/02

End Time: 22:20:00

Report Date: 2010/02/02

Prepared By: JOHN RIEDL

Remarks:

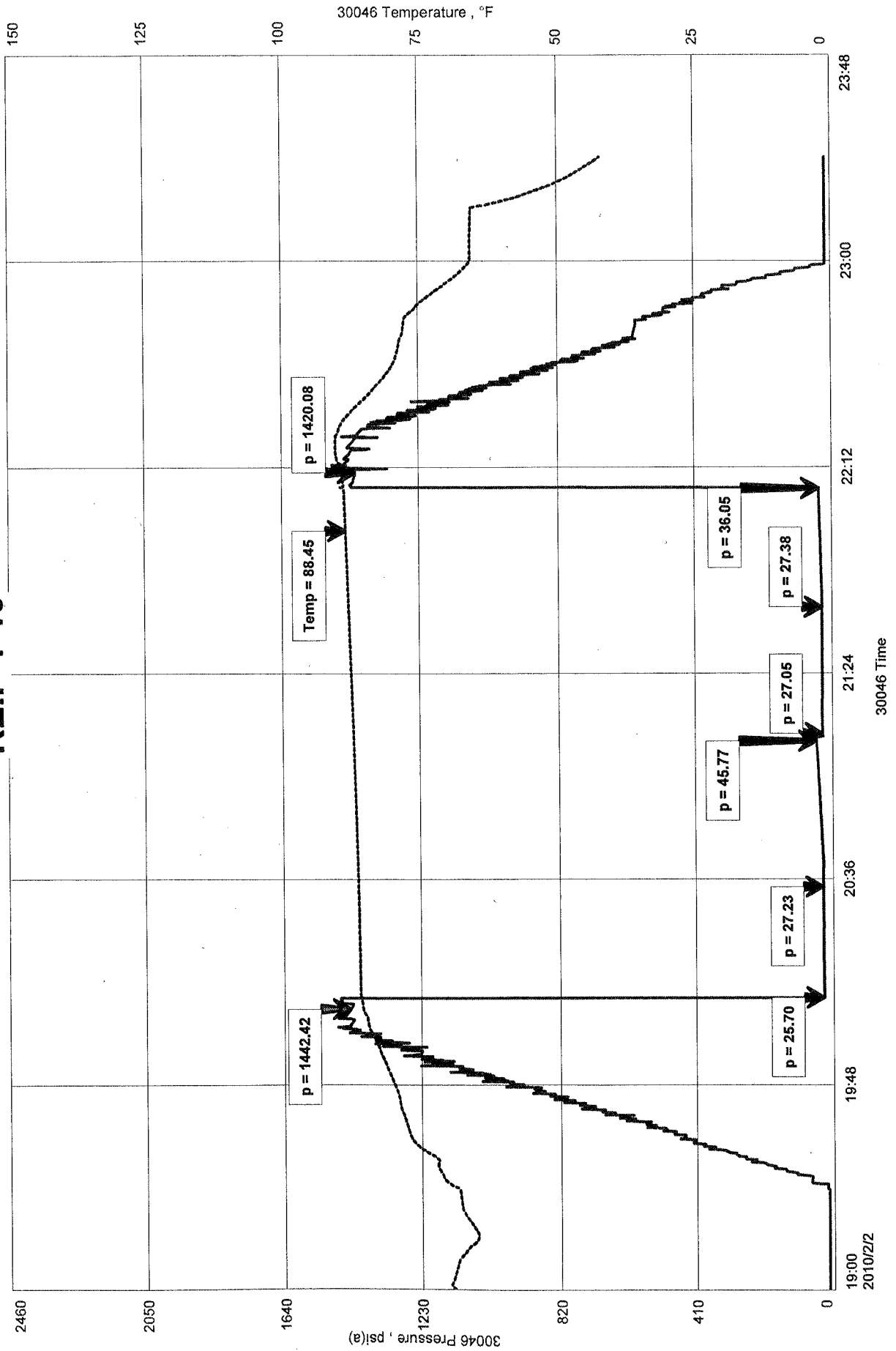
Qualified By: JIM MUSGROVE

RECOVERY: 5' OIL SPECKED MUD

REIF 1-13
Formation: LKC
Job Number: D687

L D DRILLING INC
Start Test Date: 2010/02/02
Final Test Date: 2010/02/02

REIF 1-13



2-0
RtP 1-13

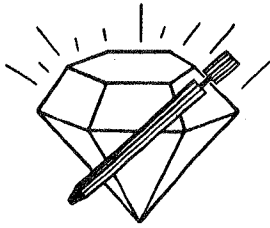
DST #3
2-2-10

RtC 11517
OUTSIDE



This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading	
	Field Reading			
(A) Initial Hydrostatic Mud	1442	1442	PSI	
(B) First Initial Flow Pressure	26	26	PSI	
(C) First Final Flow Pressure	27	27	PSI	
(D) Initial Closed-in Pressure	46	46	PSI	
(E) Second Initial Flow Pressure	27	27	PSI	
(F) Second Final Flow Pressure	27	27	PSI	
(G) Final Closed-in Pressure	36	36	PSI	
(H) Final Hydrostatic Mud	1420	1420	PSI	



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Company L. D. Drilling, Inc. Lease & Well No. Reif No. 1-13
Elevation 1740 EGL Formation Lansing/Kansas City "G" Effective Pay -- Ft. Ticket No. J2484
Date 2-3-10 Sec. 13 Twp. 12S Range 14W County Russell State Kansas
Test Approved By James C. Musgrove Diamond Representative John C. Riedl
Formation Test No. 4 Interval Tested from 3,049 ft. to 3,069 ft. Total Depth 3,069 ft.
Packer Depth 3,044 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3,049 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,052 ft. Recorder Number 30046 Cap. 6,000 psi
Bottom Recorder Depth (Outside) 3,066 ft. Recorder Number 11017 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number psi
Drilling Contractor Royal Drilling, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.
Mud Type Chemical Viscosity 51 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.0 Water Loss 8.0 cc. Drill Pipe Length 3,029 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 20 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, building throughout to 3 ins. No blow back during shut-in.
2nd Open: Fair blow, building throughout to 4 ins. No blow back during shut-in.

Recovered 60 ft. of water with a scum of oil = .853800 bbls. (Chlorides: 46,000 Ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 5:50 ^{A.M.}/_{P.M.} Time Started Off Bottom 8:35 ^{A.M.}/_{P.M.} Maximum Temperature 94°
Initial Hydrostatic Pressure (A) 1469 P.S.I.
Initial Flow Period Minutes 30 (B) 26 P.S.I. to (C) 38 P.S.I.
Initial Closed In Period Minutes 30 (D) 794 P.S.I.
Final Flow Period Minutes 45 (E) 39 P.S.I. to (F) 55 P.S.I.
Final Closed In Period Minutes 60 (G) 801 P.S.I.
Final Hydrostatic Pressure (H) 1440 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: REIF 1-13

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S13/12S/14W RUSSELL CTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D688

Test Unit:

Start Date: 2010/02/03

Start Time: 04:35:00

End Date: 2010/02/03

End Time: 10:00:00

Report Date: 2010/02/03

Prepared By: JOHN RIEDL

Remarks:

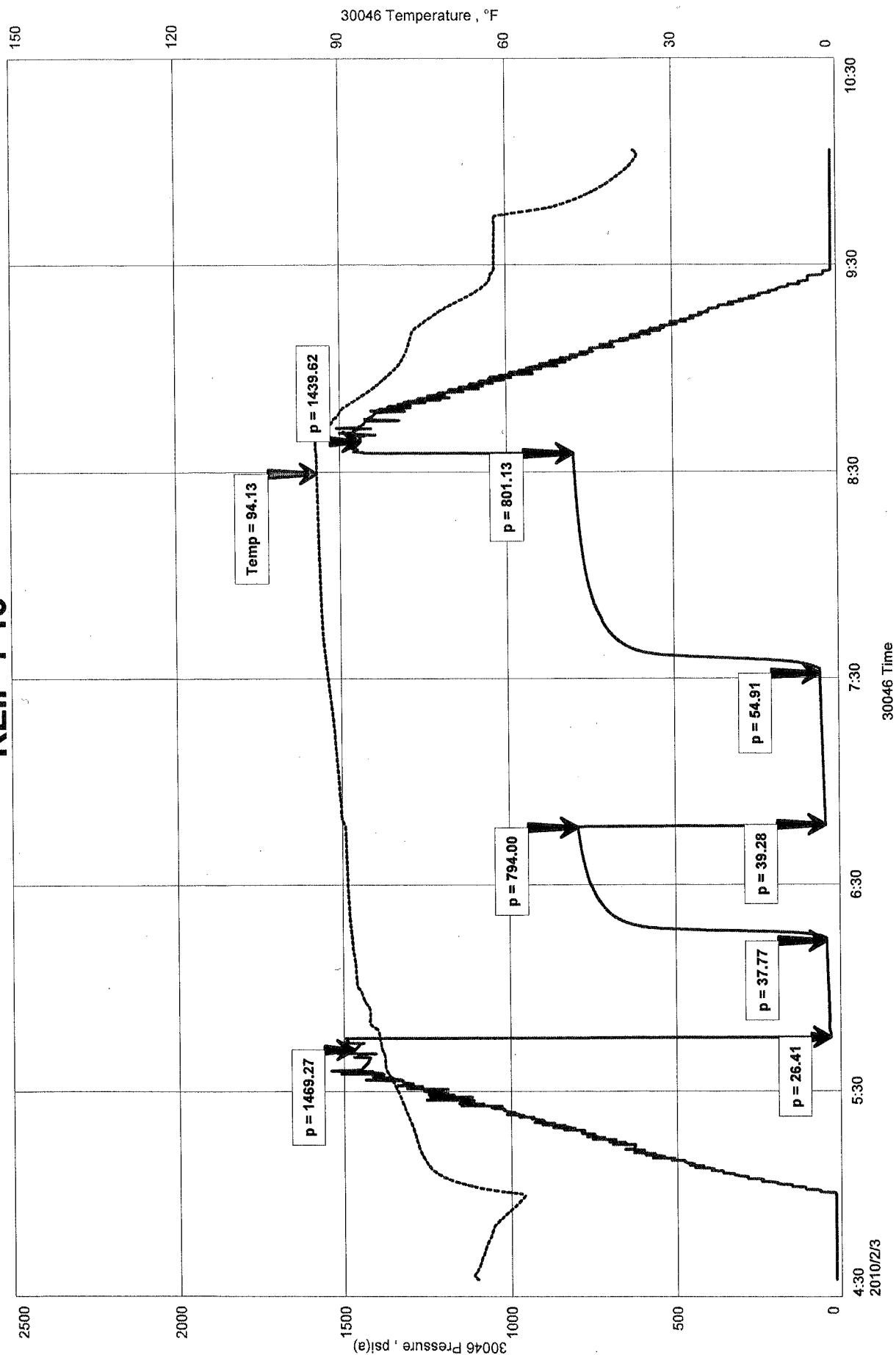
Qualified By: JIM MUSGROVE

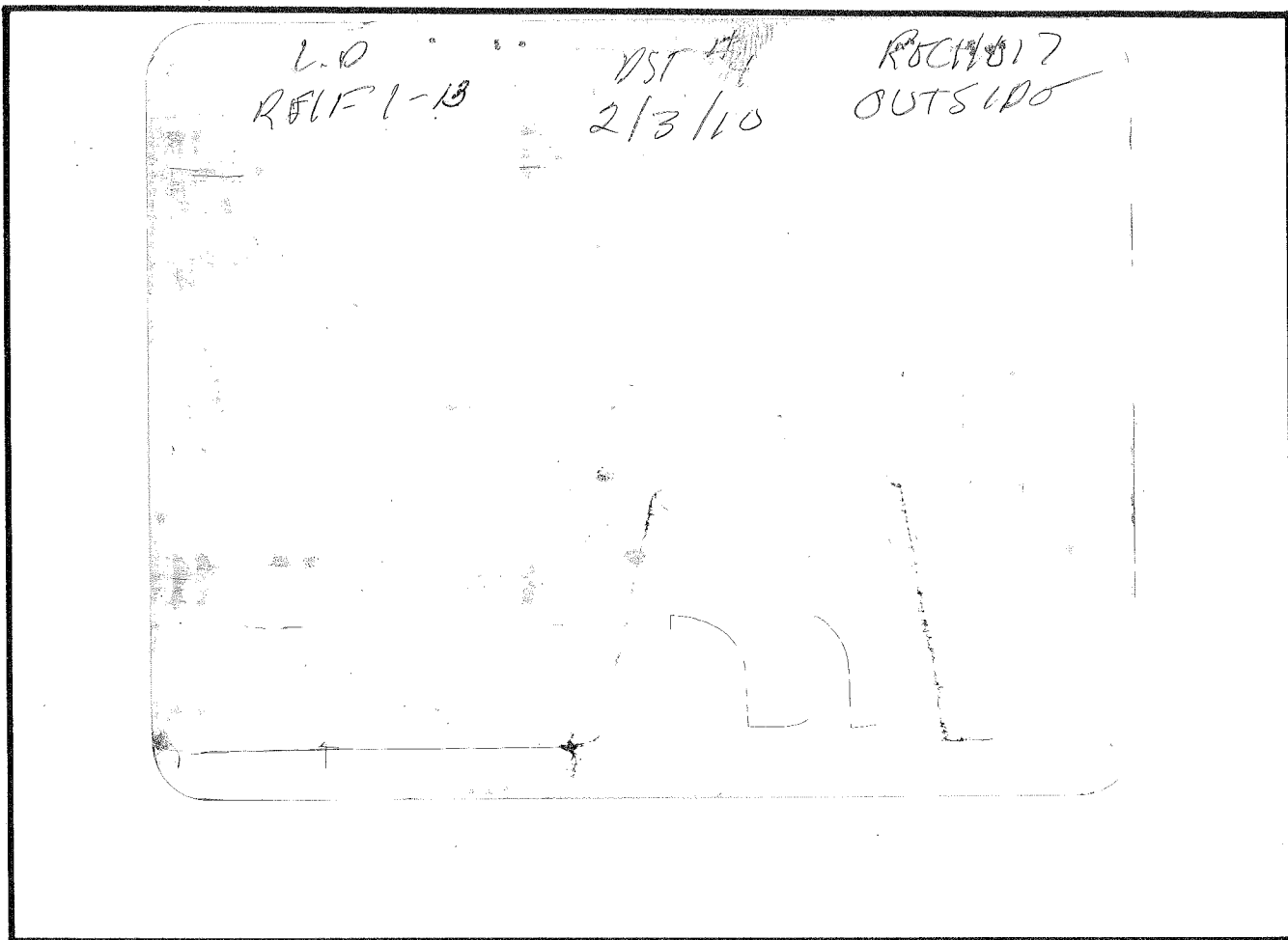
RECOVERY: 60' WATER WITH A SCUM OF OIL

REIF 1-13
Formation: LKC "G"
Job Number: D688

REIF 1-13

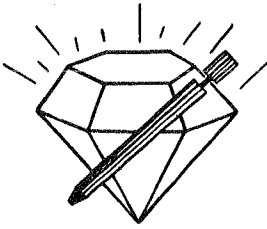
L D DRILLING INC
Start Test Date: 2010/02/03
Final Test Date: 2010/02/03





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1469	1469
(B) First Initial Flow Pressure.....	26	26
(C) First Final Flow Pressure	38	38
(D) Initial Closed-in Pressure	794	794
(E) Second Initial Flow Pressure.....	39	39
(F) Second Final Flow Pressure.....	55	55
(G) Final Closed-in Pressure.....	801	801
(H) Final Hydrostatic Mud	1440	1440



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STC 30046.D689

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Company L. D. Drilling, Inc. Lease & Well No. Reif No. 1-13

Elevation 1740 EGL Formation Lansing/Kansas City "H"-"L" Effective Pay -- Ft. Ticket No. J2485

Date 2-3-10 Sec. 13 Twp. 12S Range 14W County Russell State Kansas

Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 3,108 ft. to 3,209 ft. Total Depth 3,209 ft.

Packer Depth 3,103 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,108 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,111 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,206 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

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

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

Weight 9.0 Water Loss 8.0 cc. Drill Pipe Length 3,088 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 101 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, building throughout to 2 1/2 ins. No blow back during shut-in.

2nd Open: Weak blow, building throughout to 1 in. No blow back during shut-in.

Recovered 30 ft. of drilling mud = .426900 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 10:05 ^{AM.}_{P.M.} Time Started Off Bottom 12:05 ^{AM.}_{PM.} Maximum Temperature 92°

Initial Hydrostatic Pressure (A) 1507 P.S.I.

Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 39 P.S.I.

Initial Closed In Period Minutes 30 (D) 966 P.S.I.

Final Flow Period Minutes 30 (E) 37 P.S.I. to (F) 39 P.S.I.

Final Closed In Period Minutes 30 (G) 881 P.S.I.

Final Hydrostatic Pressure (H) 1472 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: REIF 1-13

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S13/12S/14W RUSSELL CTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D689

Test Unit:

Start Date: 2010/02/03

Start Time: 21:45:00

End Date: 2010/02/04

End Time:

Report Date: 2010/02/04

Prepared By: JOHN RIEDL

Remarks:

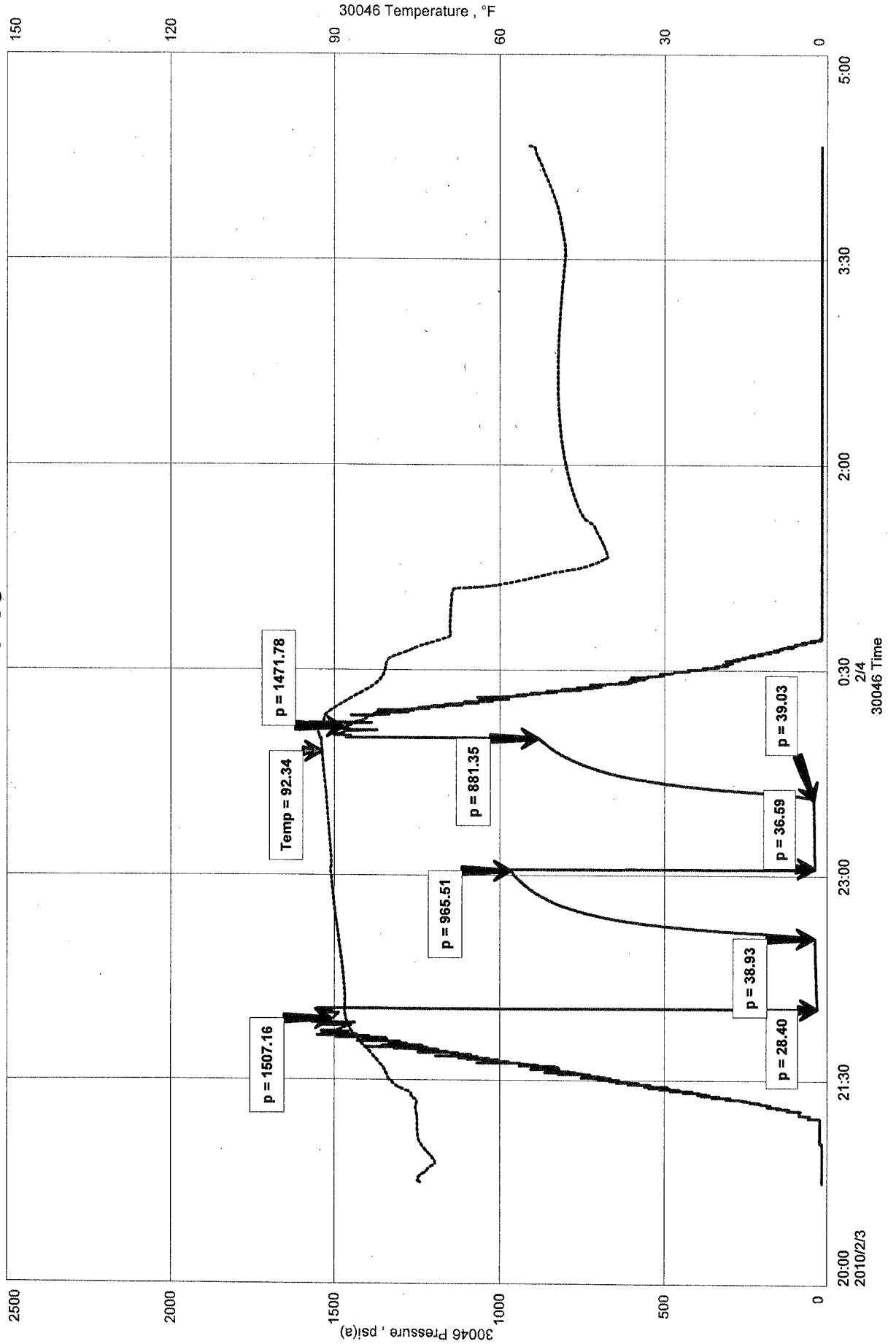
Qualified By: JIM MUSGROVE

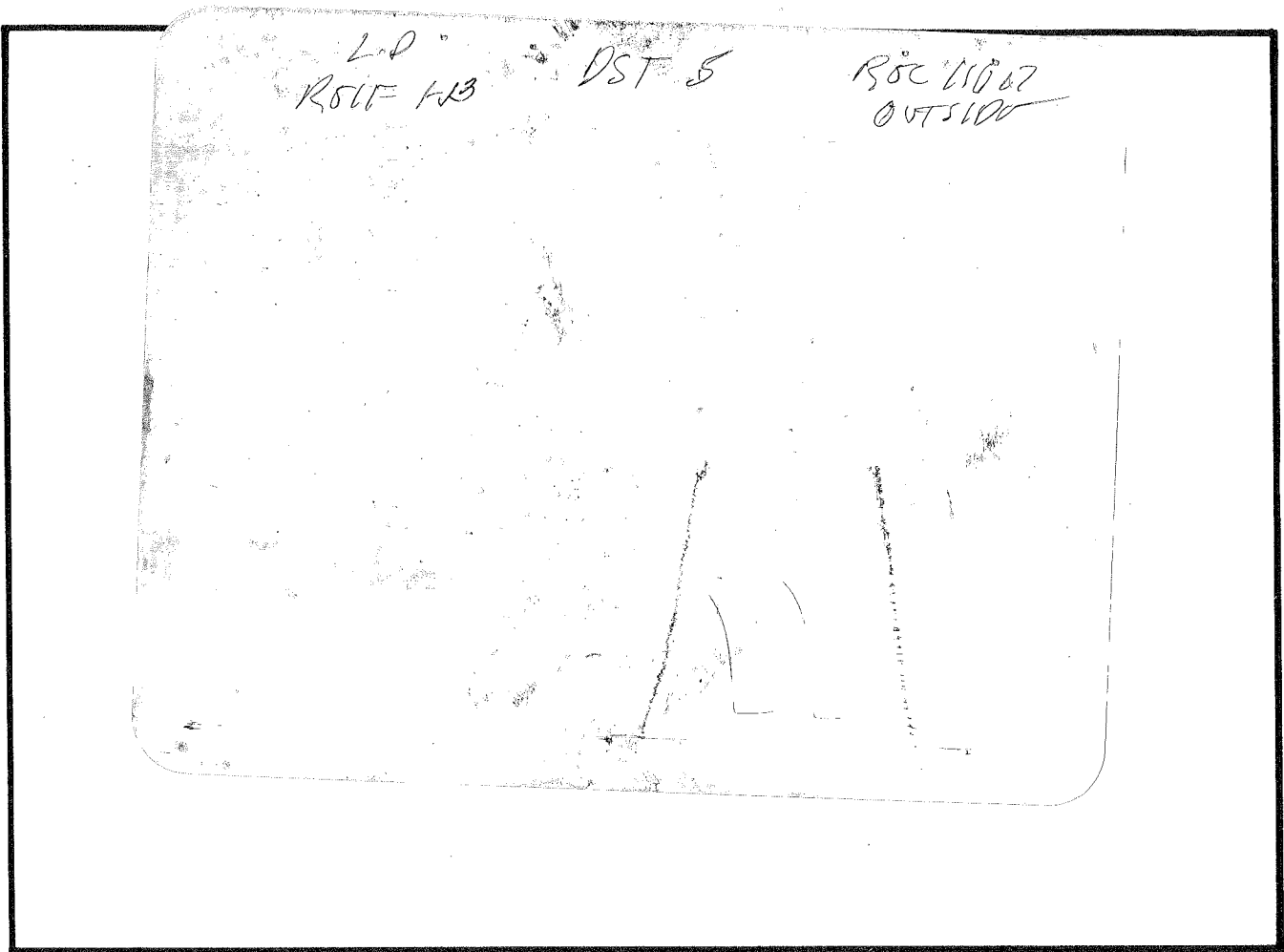
RECOVERY:30' DRILLING MUD

LD DRILLING INC
Start Test Date: 2010/02/03
Final Test Date: 2010/02/04

REIF 1-13
Formation: LKC "H.I.J.K.L."
Job Number: D689

REIF 1-13





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1507	1507
(B) First Initial Flow Pressure	28	28
(C) First Final Flow Pressure	39	39
(D) Initial Closed-in Pressure	966	966
(E) Second Initial Flow Pressure	37	37
(F) Second Final Flow Pressure	39	39
(G) Final Closed-in Pressure	881	881
(H) Final Hydrostatic Mud	1472	1472