



15-009-25025

2-16s-14w

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21108.D428

Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Defenbaugh No. 1-2

Elevation 1876 EGL Formation Lansing/Kansas City Effective Pay -- Ft. Ticket No. J2031

Date 2-19-07 Sec. 2 Twp. 16S Range 14W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,213 ft. to 3,272 ft. Total Depth 3,272 ft.

Packer Depth 3,208 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,213 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,216 ft. Recorder Number 21108 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,269 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 30 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 7.2 cc. Drill Pipe Length 3,163 ft. I.D. 3 1/2 in.

Chlorides 2,100 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - JF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 59 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.

Recovered 20 ft. of oil specked drilling mud = .098400 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 9:50 ^{XXM.} P.M. Time Started Off Bottom 11:10 ^{XXM.} P.M. Maximum Temperature 93°

Initial Hydrostatic Pressure (A) 1536 P.S.I.

Initial Flow Period Minutes 20 (B) 33 P.S.I. to (C) 35 P.S.I.

Initial Closed In Period Minutes 20 (D) 61 P.S.I.

Final Flow Period Minutes 20 (E) 35 P.S.I. to (F) 36 P.S.I.

Final Closed In Period Minutes 20 (G) 50 P.S.I.

Final Hydrostatic Pressure (H) 1515 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: DEFENBAUGH #1-2

Operator: L D DRILLING INC

Location-Downhole: DSTG #1 3213 TO 3272

Location-Surface: S2/16S/14W BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D428

Test Unit: 2

Start Date: 2007/02/19 Start Time: 19:45:00

End Date: 2007/02/20 End Time: 00:55:00

Report Date: 2007/02/20 Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

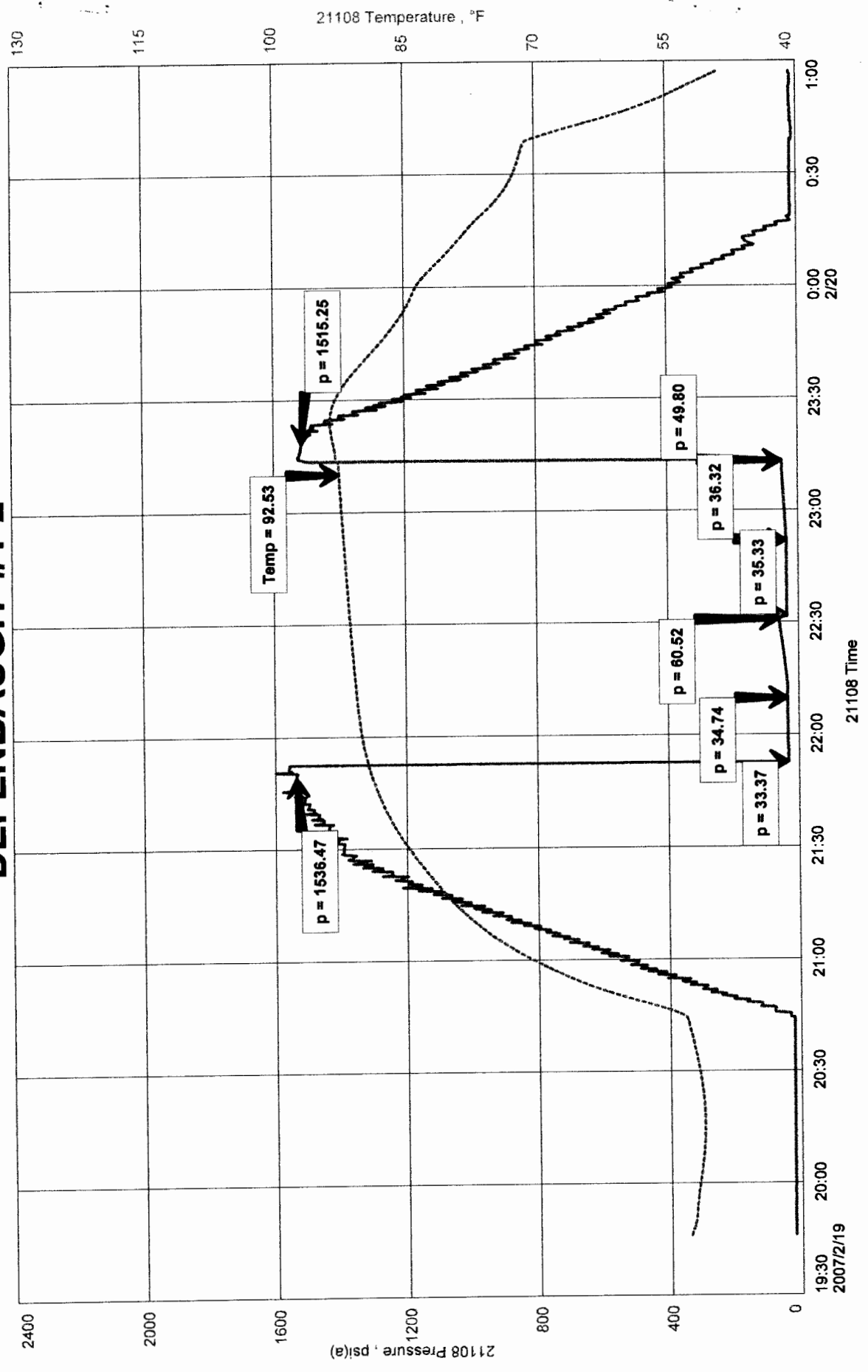
Remarks:

RECOVERY: 20' OIL SPECKED DRILLING MUD

DEFENBAUGH #1-2
Formation: LKC
Job Number: D428

L D DRILLING INC
DSTG #1 3213 TO 3272
Start Test Date: 2007/02/19
Final Test Date: 2007/02/20

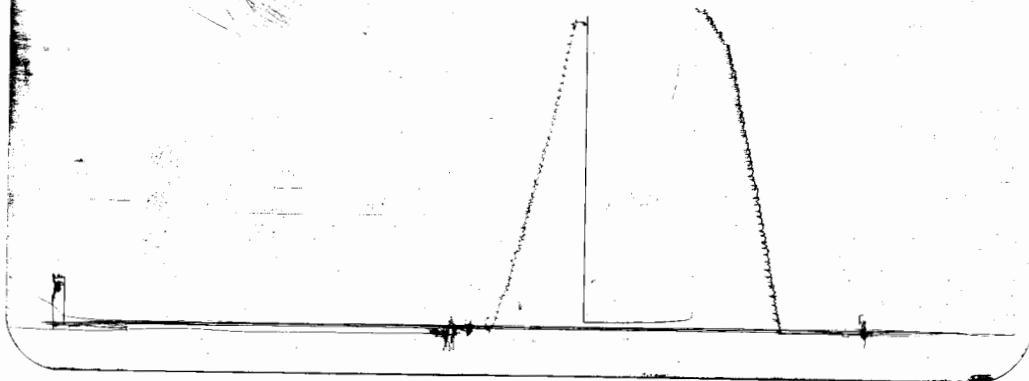
DEFENBAUGH #1-2



L.O.
DOFFENBAUGH

DST #1

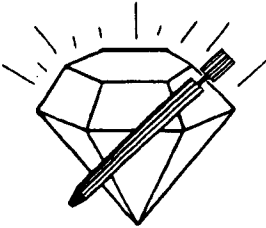
ROCK #11015
OUTSIDE



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1536	1536	PSI
(B) First Initial Flow Pressure	33	33	PSI
(C) First Final Flow Pressure	35	35	PSI
(D) Initial Closed-in Pressure	61	61	PSI
(E) Second Initial Flow Pressure	35	35	PSI
(F) Second Final Flow Pressure	36	36	PSI
(G) Final Closed-in Pressure	50	50	PSI
(H) Final Hydrostatic Mud	1515	1515	PSI

COMPANY
LEASE AND WELL NO.
DATE



DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21108.D429

Company L. D. Drilling, Inc. Lease & Well No. Defenbaugh No. 1-2

Elevation 1876 EGL Formation Arbuckle Effective Pay Ft. Ticket No. J2032

Date 2-20-07 Sec. 2 Twp. 16S Range 14W County Barton State Kansas

Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,280 ft. to 3,312 ft. Total Depth 3,312 ft.

Packer Depth 3,275 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3,280 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,283 ft. Recorder Number 21108 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,309 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 30 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length ft. I.D. in.

Weight 9.0 Water Loss 8.0 cc. Drill Pipe Length 3,230 ft. I.D. 3 1/2 in.

Chlorides 2,500 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 32 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. Initial, $\frac{1}{2}$ in., blow building to 4 ins. by end. No blow back during shut-in.
2nd Open: Good blow. Initial, $\frac{1}{2}$ in., blow building to 7 ins. by end. No blow back during shut-in.

Recovered 250 ft. of gas in pipe

Recovered 70 ft. of clean oil = .994000 bbls.

Recovered 60 ft. of slightly mud cut gassy oil = .573600 bbls. (Grind out: 10%-mud; 10%-gas; 80%-oil)

Recovered 130 ft. of TOTAL FLUID = 1.567600 bbls.

Recovered ft. of

Remarks

Time Set Packer(s) 2:00 ^{XXM.} P.M. Time Started Off Bottom 4:45 ^{XXM.} P.M. Maximum Temperature 95°

Initial Hydrostatic Pressure (A) 1562 P.S.I.

Initial Flow Period Minutes 45 (B) 35 P.S.I. to (C) 59 P.S.I.

Initial Closed In Period Minutes 30 (D) 1066 P.S.I.

Final Flow Period Minutes 45 (E) 63 P.S.I. to (F) 82 P.S.I.

Final Closed In Period Minutes 45 (G) 1055 P.S.I.

Final Hydrostatic Pressure (H) 1537 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: DEFENBAUGH #1-2

Operator: L D DRILLING INC

Location-Downhole: DST #2 3280 TO 3112

Location-Surface: S2/16S/14S BARTON COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D429

Test Unit: 2

Start Date: 2007/02/20 Start Time: 12:40:00

End Date: 2007/02/20 End Time: 18:35:00

Report Date: 2007/02/20 Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

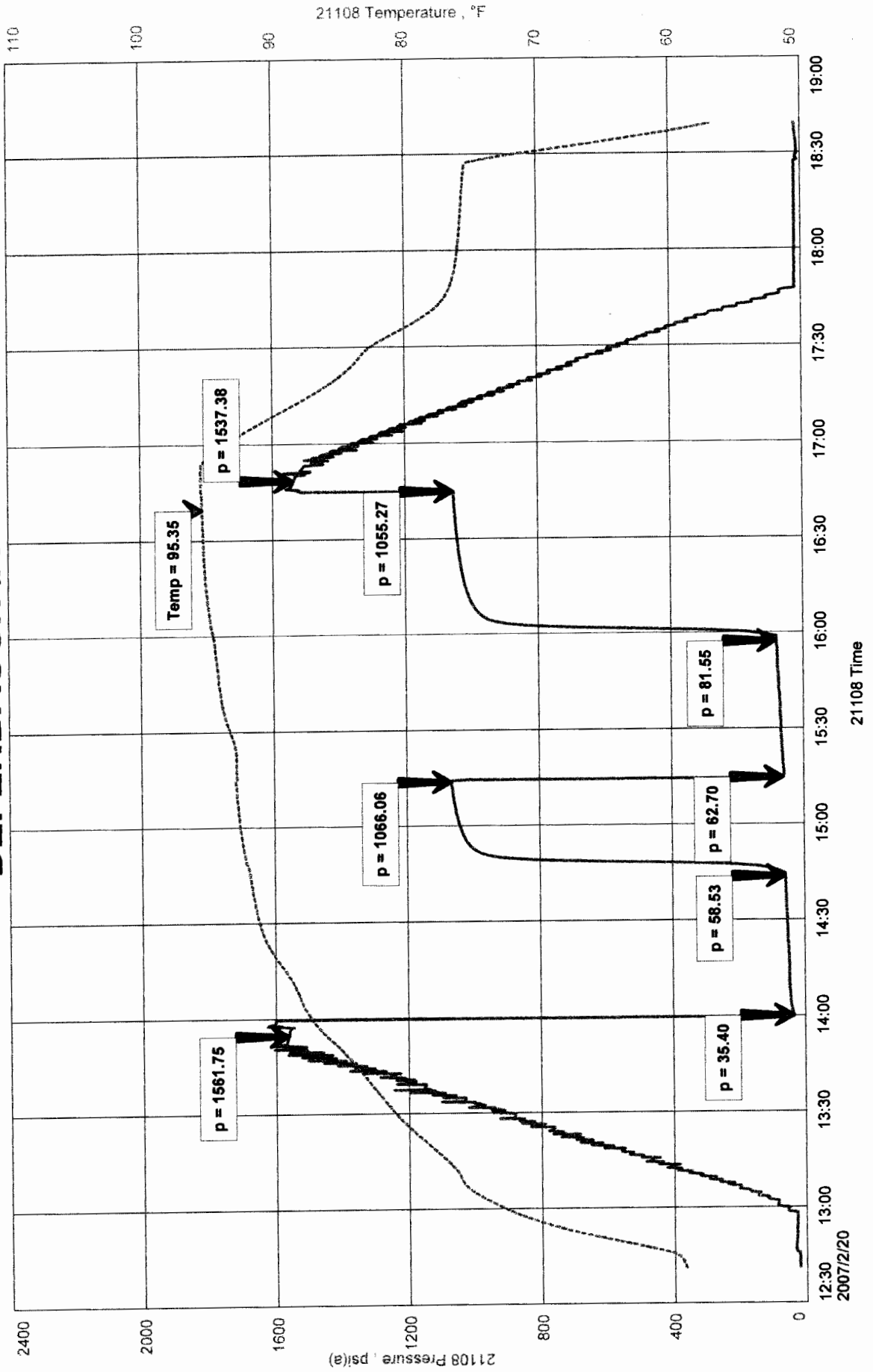
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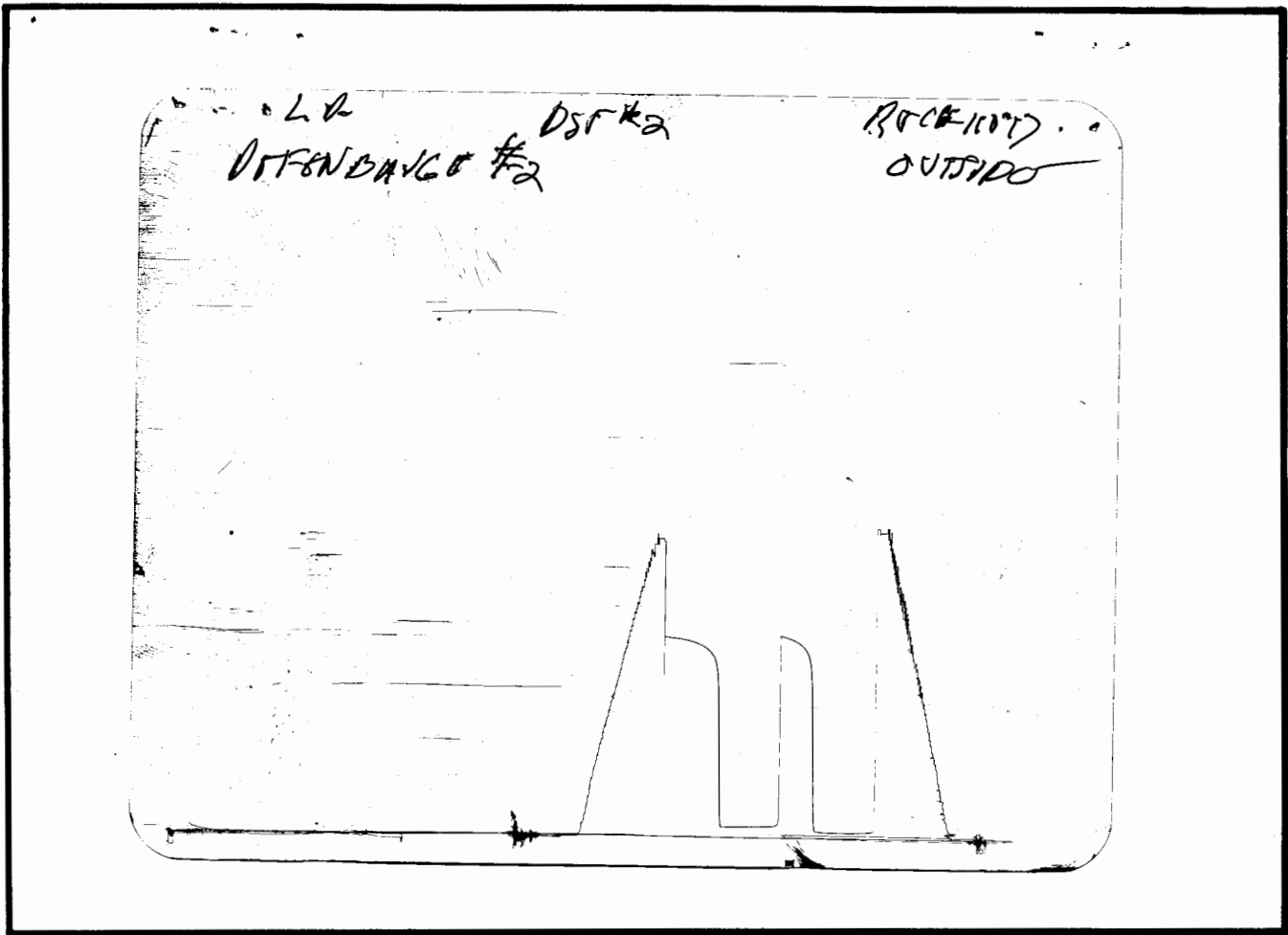
RECOVERY: 250' GAS IN PIPE
70' CLEAN OIL
60' SL MUD CUT GASSY OIL
TOTAL FLUID REC. 130'

LD DRILLING INC
DST #2 3280 TO 3112
Start Test Date: 2007/02/20
Final Test Date: 2007/02/20

DEFENBAUGH #1-2
Formation: ARBUCKLE
Job Number: D429

DEFENBAUGH #1-2





This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1562	1562	PSI
(B) First Initial Flow Pressure	35	35	PSI
(C) First Final Flow Pressure	59	59	PSI
(D) Initial Closed-in Pressure	1066	1066	PSI
(E) Second Initial Flow Pressure	63	63	PSI
(F) Second Final Flow Pressure	82	82	PSI
(G) Final Closed-in Pressure	1055	1055	PSI
(H) Final Hydrostatic Mud	1537	1537	PSI