15-063-21588

DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.D85

ORIGINAL

33-15s-30w

Company L. D. Drilling, Inc. Lease & Well No. Dubh-Fussell No. 1-A

Elevation 2718 KB Formation Lansing/Kansas City "H" & "I" Effective Pay -- Ft. Ticket No. 1974

Date 3-12-05 Sec. 33 Twp. 15S Range 30W County Gove State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,013 ft. to 4,075 ft. Total Depth 4,075 ft.

Packer Depth 4,008 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,013 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,001 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,072 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 62 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.25 Water Loss 8.8 cc. Drill Pipe Length 3,988 ft. I.D. 3½ in.

Chlorides 2,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 31' perf. w/31' drill pipe 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, 1/8 in., blow increasing to 7 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 10½ ins. No blow back during shut-in.

Recovered 60 ft. of gas in pipe

Recovered 28 ft. of gas & oil cut mud = .287280 bbls. (Grind out: 6%-gas; 30%-oil; 64%-mud)

Recovered 62 ft. of slightly watery & gas cut muddy oil = .636120 bbls. (Grind out: 10%-water; 16%-gas; 34%-mud; 40%-oil

Recovered 90 ft. of TOTAL FLUID = .923400 bbls.

Recovered ft. of

Remarks Tool Sample Grind Out: 10%-gas; 15%-water; 35%-mud; 40%-oil

Time Set Packer(s) 8:07 AM P.M. Time Started Off Bottom 11:07 AM P.M. Maximum Temperature 113°

Initial Hydrostatic Pressure ..... (A) 1931 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 7 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1072 P.S.I.

Final Flow Period ..... Minutes 45 (E) 30 P.S.I. to (F) 54 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1061 P.S.I.

Final Hydrostatic Pressure ..... (H) 1914 P.S.I.

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

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Dubh-Fussell No. 1-A

Date 3-12-05 Sec. 33 Twp. 15 S Range 30 W

Formation Test No. 1 Interval Tested From 4,013 ft. to 4,075 ft. Total Depth 4,075 ft.

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

	MUD PIT	RECOVERY
Viscosity	62 CP	-- CP
Weight	9.25	--
Water Loss	8.8 CC	-- CC
PH Factor	10.5	--

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	--	@ --	°F.	-- ppm
Recovery Mud Filtrate	--	@ --	°F.	-- ppm
Mud Pit Sample	1.70	@ 64	°F.	4,000 ppm
Mud Pit Sample Filtrate	1.90	@ 62	°F.	3,200 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,000 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: DUBH/FUSSELL #1

Operator: L.D. DRILLING, INC.

Location-Downhole: DST #1 LKC 'H-I' 4,013' - 4075'

Location-Surface: SEC - S-W GOVE COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2005/03/12	Start Time:	18:03:00
End Date:	2005/03/13	End Time:	02:17:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

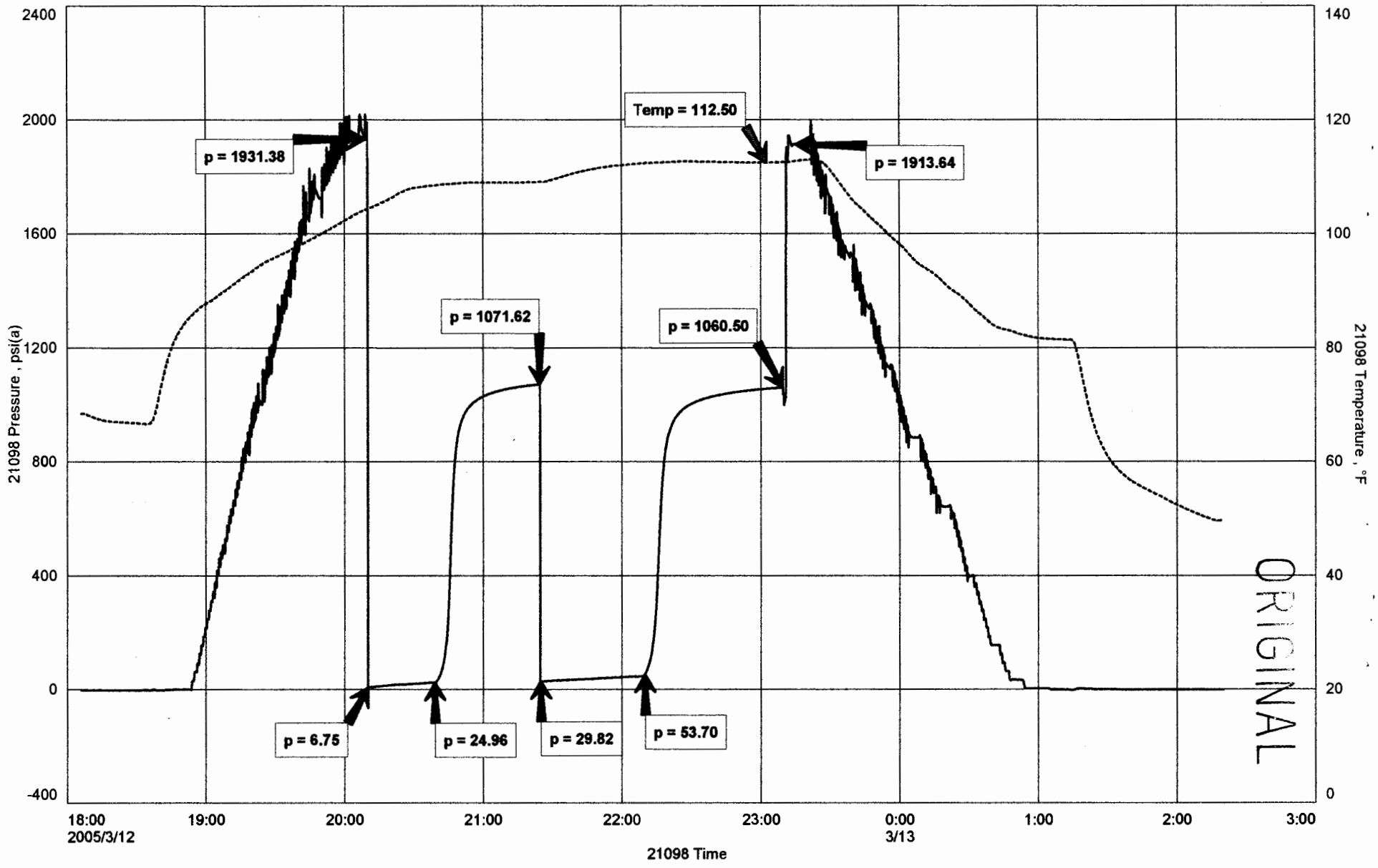
RECOVERED: 60' GAS IN PIPE
28' G&OCM 6% GAS, 30% OIL, 64% MUD
62' SLTWTR & GCMO 10% WTR, 16% GAS, 34% MUD, 40% OIL
90' TOTAL FLUID

TOOL SAMPLE: 10% GAS, 15% WTR, 35% MUD, 40% OIL

L.D. DRILLING, INC.
DST #1 LKC 'H-I' 4,013' - 4075'
Start Test Date: 2005/03/12
Final Test Date: 2005/03/13

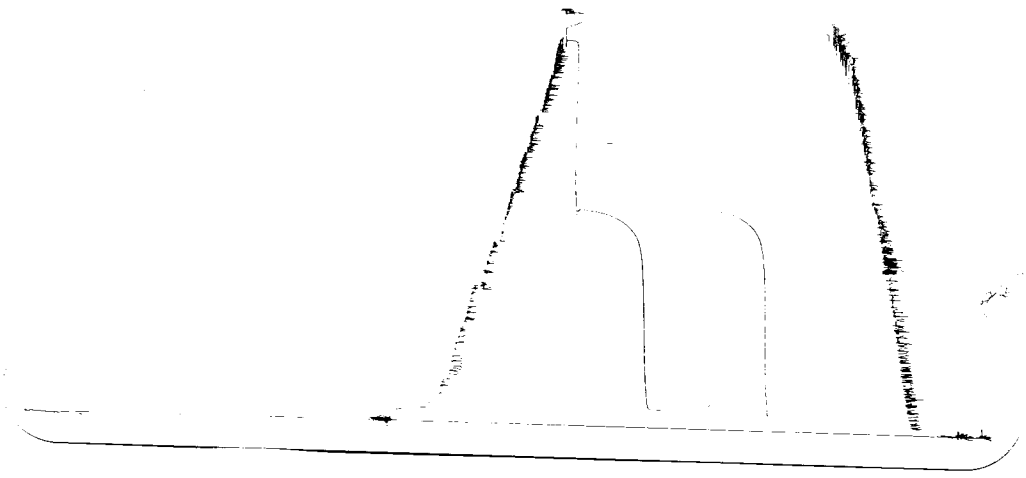
DUBH/FUSSELL #1
Formation: DST #1 LKC 'H-I' 4,013' - 4,075'
Pool: WILDCAT

DUBH/FUSSELL #1



ORIGINAL

DST #1 outside 13287 4013-4075
LKC "H-I" LOC 4072



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1931	1931	PSI
(B)	First Initial Flow Pressure	7	7	PSI
(C)	First Final Flow Pressure	25	25	PSI
(D)	Initial Closed-in Pressure	1072	1072	PSI
(E)	Second Initial Flow Pressure	30	30	PSI
(F)	Second Final Flow Pressure	54	54	PSI
(G)	Final Closed-in Pressure	1061	1061	PSI
(H)	Final Hydrostatic Mud	1914	1914	PSI

DIAMOND TESTING
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STC 21098.D86

ORIGINAL

Company L. D. Drilling, Inc. Lease & Well No. Dubh-Fussell No. 1-A

Elevation 2718 KB Formation Lansing/Kansas City "K" Effective Pay -- Ft. Ticket No. 1975

Date 3-13-05 Sec. 33 Twp. 15S Range 30W County Gove State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,070 ft. to 4,100 ft. Total Depth 4,100 ft.

Packer Depth 4,065 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,070 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,058 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,097 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 65 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 4,045 ft. I.D. 3½ in.

Chlorides 2,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen 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, 1/8 in., blow increasing to 6 ins. No blow back during shut-in.
2nd Open: Weak, 1/8 in., blow increasing to 6 ins. No blow back during shut-in.

Recovered 125 ft. of muddy water = 1.282500 bbls. (Grind out: 25%-mud; 75%-water) Chlorides: 28,500 Ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 5%-mud; 95%-salt water with some oil specks

Time Set Packer(s) 10:31 ~~P~~A.M. Time Started Off Bottom 1:31 ~~A~~P.M. Maximum Temperature 120°

Initial Hydrostatic Pressure ..... (A) 1951 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 7 P.S.I. to (C) 38 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 954 P.S.I.

Final Flow Period ..... Minutes 45 (E) 34 P.S.I. to (F) 64 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 914 P.S.I.

Final Hydrostatic Pressure ..... (H) 1943 P.S.I.

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

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Dubh-Fussell No. 1-A

Date 3-13-05 Sec. 33 Twp. 15 S Range 30 W

Formation Test No. 2 Interval Tested From 4,070 ft. to 4,100 ft. Total Depth 4,100 ft.

Formation Lansing/Kansas City "K"

	MUD PIT	RECOVERY	
Viscosity	65 CP	-- CP	
Weight	9.4	--	
Water Loss	8.8 CC	-- CC	
PH Factor	10.0	--	Water 7.5

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.20	@ 70 °F.		35,000 ppm
Recovery Mud	--	@ -- °F.		-- ppm
Recovery Mud Filtrate	--	@ -- °F.		-- ppm
Mud Pit Sample	1.70	@ 60 °F.		4,200 ppm
Mud Pit Sample Filtrate	1.80	@ 64 °F.		3,600 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,000 Ppm.
Recovery water dish chlorides were 28,500 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: BUBH/FUSSELL #1

Operator: L.D. DRILLING, INC.

Location-Downhole: DST #2 LKC 'K' 4,070' - 4,100'

Location-Surface: SEC 33-15S-30W GOVE COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2005/03/13	Start Time:	08:27:00
End Date:	2005/03/13	End Time:	15:29:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

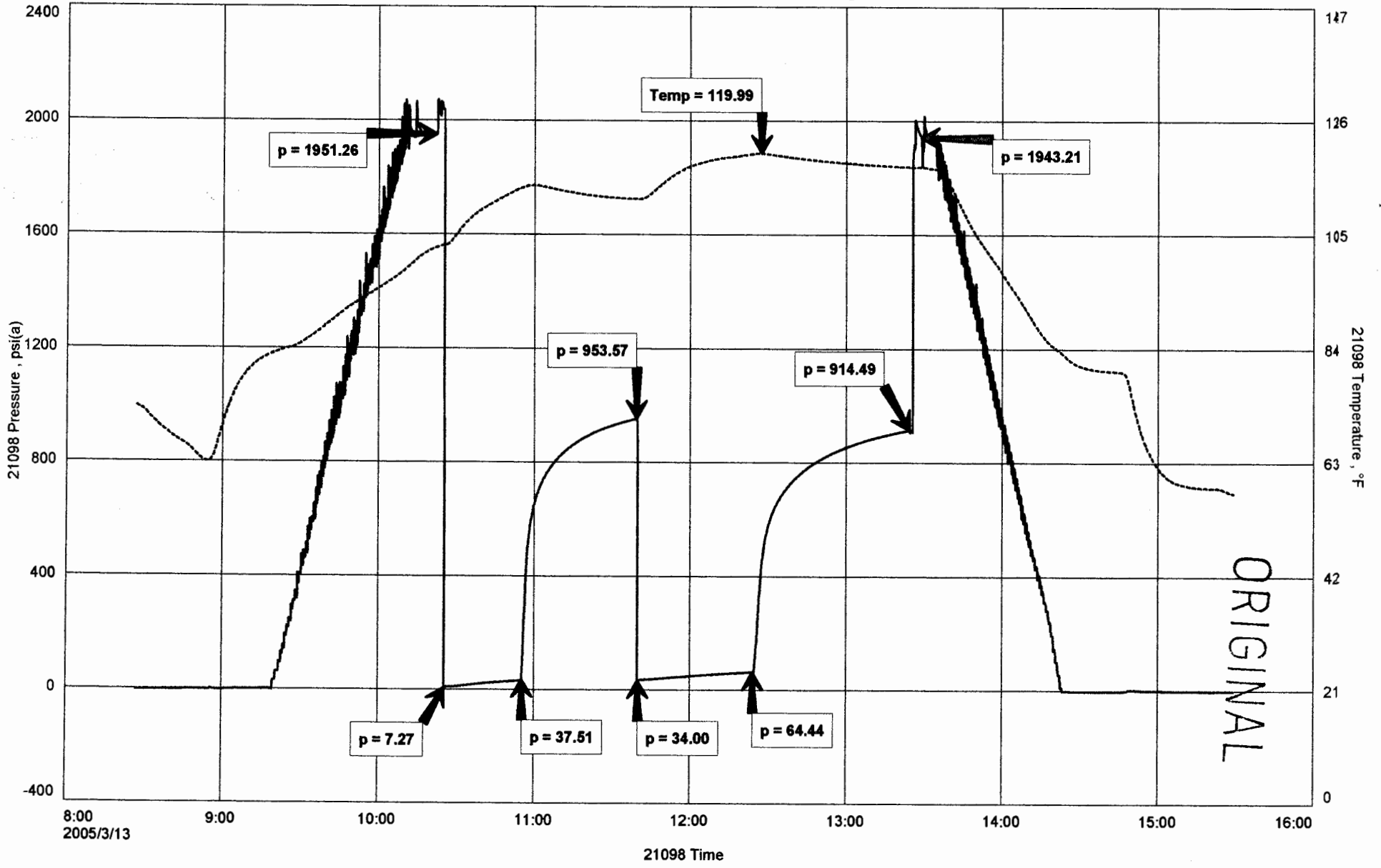
RECOVERED: 125 MW 25% MUD, 75% WTR CHLORIDES 28,500 Ppp

TOOL SAMPLE 5% MUD 95% SW WITH SOME OIL SPECKS

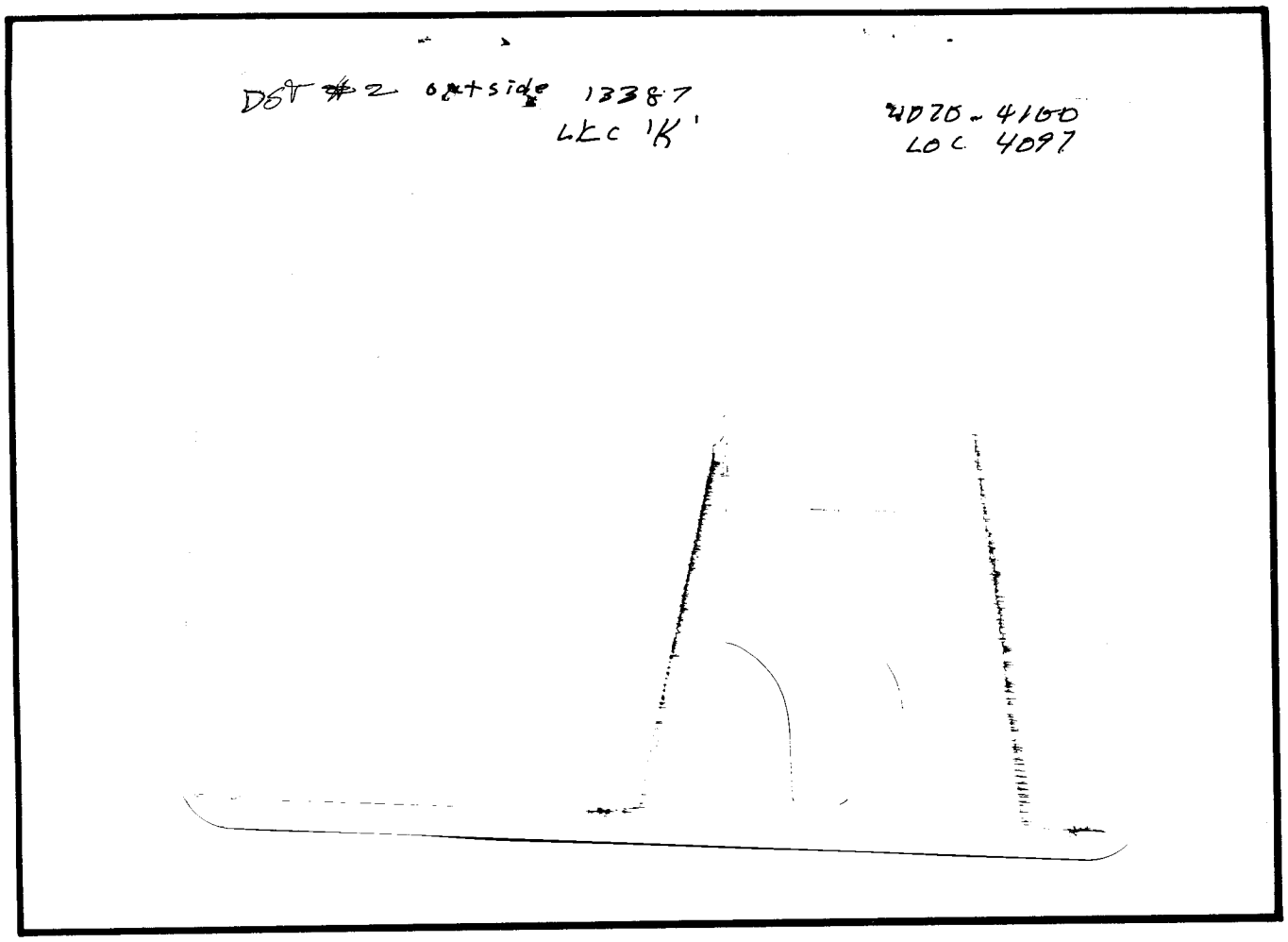
L.D. DRILLING, INC.
DST #2 LKC 'K' 4,070' - 4,100'
Start Test Date: 2005/03/13
Final Test Date: 2005/03/13

BUBH/FUSSELL #1
Formation: DST #2 LKC 'K' 4,070' - 4,100'
Pool: WILDCAT

BUBH/FUSSELL #1



ORIGINAL



This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1951	1951	PSI
(B)	First Initial Flow Pressure	7	7	PSI
(C)	First Final Flow Pressure	38	38	PSI
(D)	Initial Closed-in Pressure	954	954	PSI
(E)	Second Initial Flow Pressure	34	34	PSI
(F)	Second Final Flow Pressure	64	64	PSI
(G)	Final Closed-in Pressure	914	914	PSI
(H)	Final Hydrostatic Mud	1943	1943	PSI

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.D87

ORIGINAL

Company L. D. Drilling, Inc. Lease & Well No. Dubh-Fussell No. 1-A

Elevation 2718 KB Formation Lansing/Kansas City "L" Effective Pay -- Ft. Ticket No. 1976

Date 3-14-05 Sec. 33 Twp. 15S Range 30W County Gove State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 4,104 ft. to 4,130 ft. Total Depth 4,130 ft.

Packer Depth 4,099 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,104 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,092 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,127 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 69 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 4,079 ft. I.D. 3¼ in.

Chlorides 2,400 P.P.M. Test Tool Length 25 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.

Blow: 1st Open: Weak, 1/8 in., blow increasing to 1½ ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to ½ in. No blow back during shut-in.

Recovered 15 ft. of slightly watery mud = .153900 bbls. (Grind out: 10%-water; 90%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 12%-water; 88%-mud with a few oil cpecks

Time Set Packer(s) 12:01 A.M. P.M. Time Started Off Bottom 2:01 A.M. P.M. Maximum Temperature 109°

Initial Hydrostatic Pressure ..... (A) 1992 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 5 P.S.I. to (C) 11 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 928 P.S.I.

Final Flow Period ..... Minutes 30 (E) 11 P.S.I. to (F) 19 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 842 P.S.I.

Final Hydrostatic Pressure ..... (H) 1964 P.S.I.

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

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Dubh-Fussell No. 1-A

Date 3-14-05 Sec. 33 Twp. 15 S Range 30 W

Formation Test No. 3 Interval Tested From 4,104 ft. to 4,130 ft. Total Depth 4,130 ft.

Formation Lansing/Kansas City "L"

	MUD PIT	RECOVERY
Viscosity	69 CP	54 CP
Weight	9.4	9.4
Water Loss	8.8 CC	12.0 CC
PH Factor	10.0	9.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	.80	@ 70	°F.	8,000 ppm
Recovery Mud Filtrate	.92	@ 68	°F.	7,200 ppm
Mud Pit Sample	1.80	@ 60	°F.	4,000 ppm
Mud Pit Sample Filtrate	1.90	@ 62	°F.	3,600 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,400 Ppm.
Recovery filtrate triton dish chlorides were 6,500 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: DUBH/FUSSELL A-1

Operator: L.D. DRILLING, INC.

Location-Downhole: DST #3 LKC 'L' 4,104' - 4,130'

Location-Surface: SEC 33-15S-30W GOVE, COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

Start Date: 2005/03/13 Start Time: 22:19:00

End Date: 2005/03/14 End Time: 04:10:00

Report Date: Prepared By:

Remarks: Qualified By:

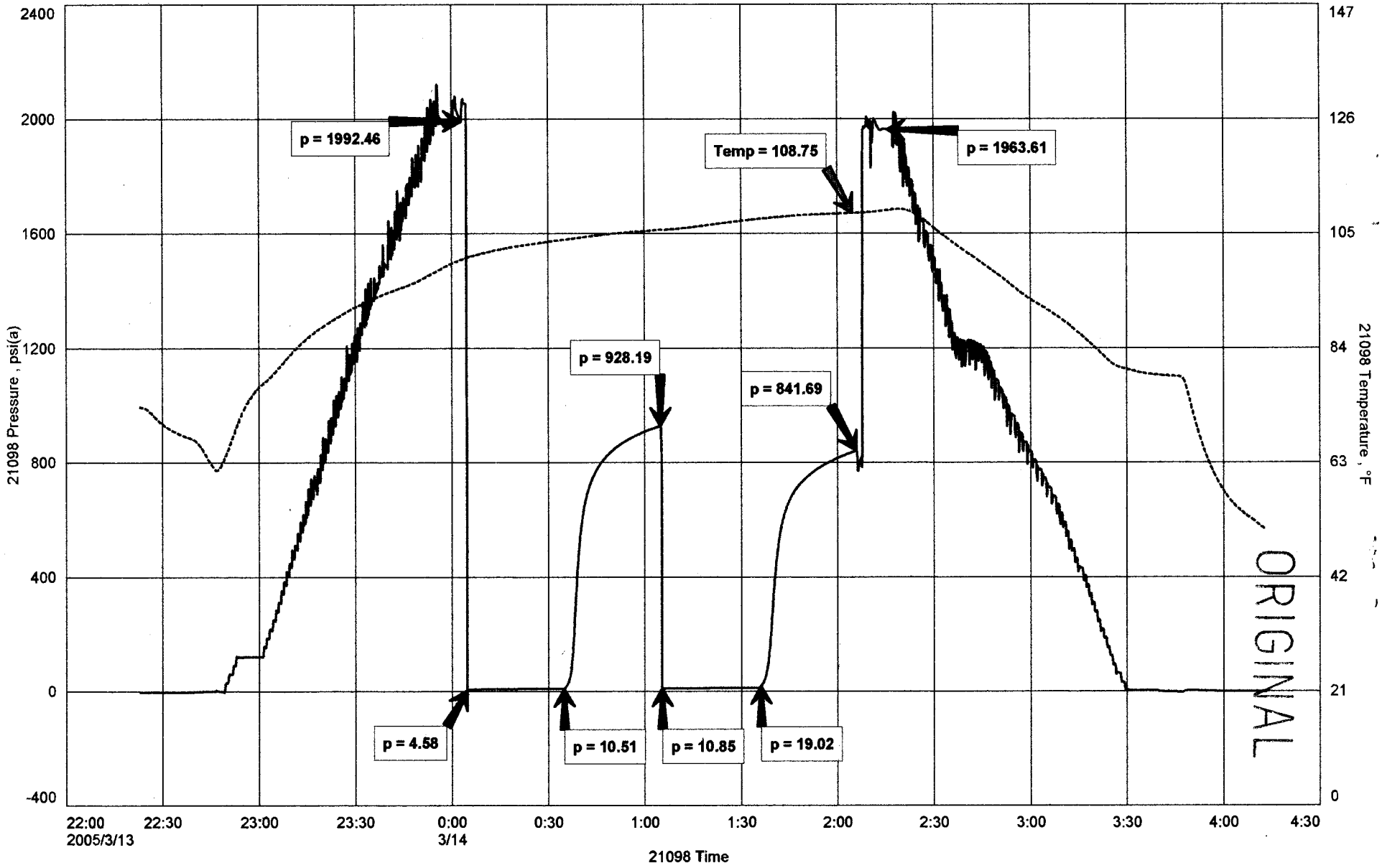
RECOVERED: 15' SLT WM 10% WTR, 90% MUD

TOOL SAMPLE: 12% WTR, 88% MUD WITH A FEW OIL SPECKS.

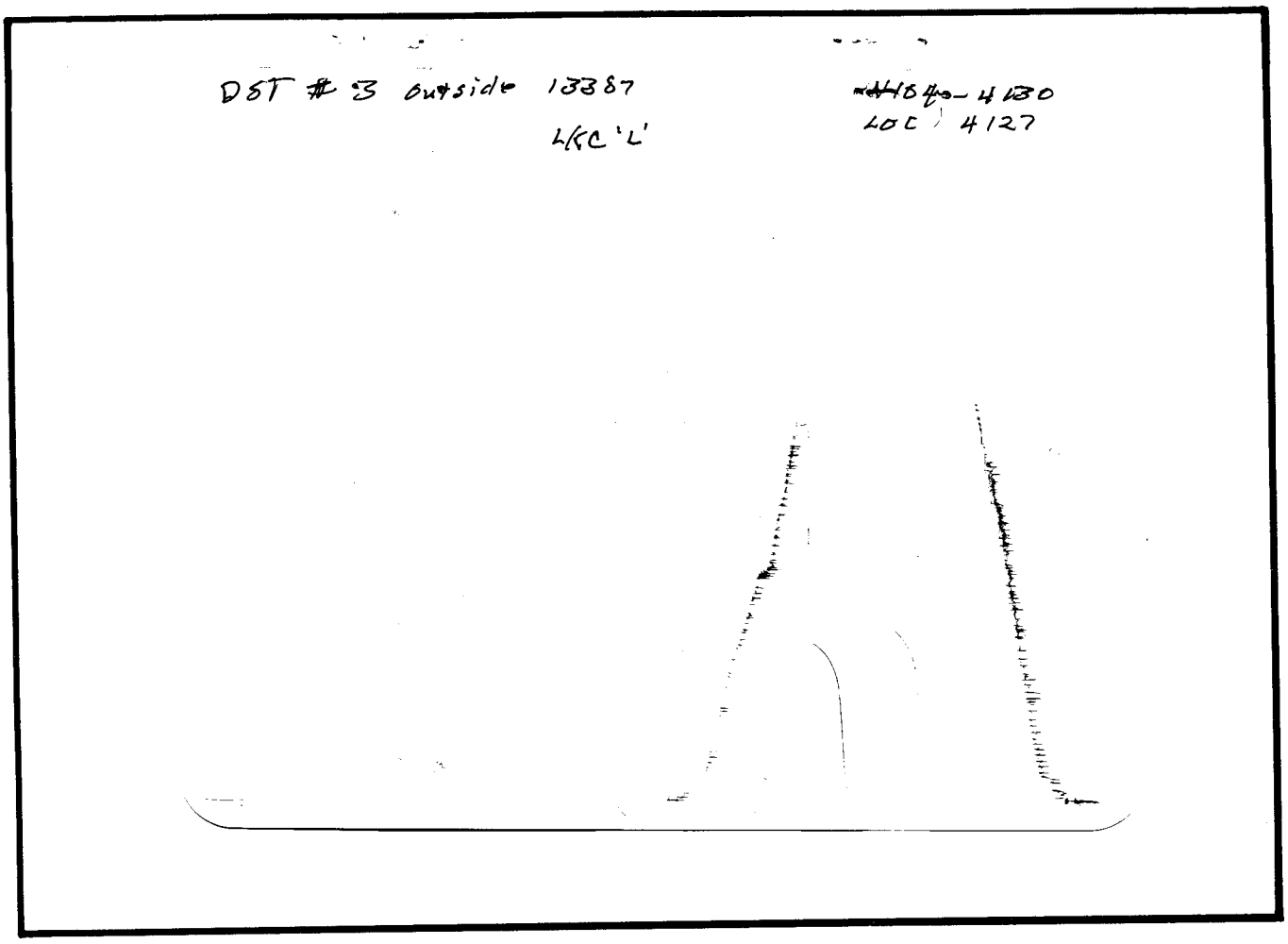
L.D. DRILLING, INC
DST #3 LKC 'L' 4,104' - 4,130'
Start Test Date: 2005/03/13
Final Test Date: 2005/03/14

DUBH/FUSSELL A-1
Formation: DST #3 LKC 'L' 4,104' - 4,130
Pool: WILDCAT

DUBH/FUSSELL A-1



ORIGINAL



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	PRESSURE Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1992	1992	PSI
(B)	First Initial Flow Pressure	5	5	PSI
(C)	First Final Flow Pressure	11	11	PSI
(D)	Initial Closed-in Pressure	928	928	PSI
(E)	Second Initial Flow Pressure	11	11	PSI
(F)	Second Final Flow Pressure	19	19	PSI
(G)	Final Closed-in Pressure	842	842	PSI
(H)	Final Hydrostatic Mud	1964	1964	PSI

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.D88

ORIGINAL

Company L. D. Drilling, Inc. Lease & Well No. Dubh-Fussell No. 1-A

Elevation 2718 KB Formation Myrick Station/Fort Scott Effective Pay 4 Ft. Ticket No. 1977

Date 3-15-05 Sec. 33 Twp. 15S Range 30W County Gove State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 4 Interval Tested from 4,285 ft. to 4,355 ft. Total Depth 4,355 ft.

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

Packer Depth 4,285 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,273 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,352 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 59 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 9.2 cc. Drill Pipe Length 4,260 ft. I.D. 3½ in.

Chlorides 2,400 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 39' perf. w/31' drill pipe 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 3 mins. Strong blow back off bottom of bucket during shut-in.
2nd Open: Strong blow. Off bottom of bucket in 5½ mins. Strong blow back off bottom of bucket during shut-in. Gas to surface on final shut-in. Burned nicely.

Recovered 475 ft. of clean gassy oil = 4.873500 bbls. (Grind out: 20%-gas; 80%-oil) Gravity: 35 @ 60°

Recovered 155 ft. of heavy gas & oil cut mud = 1.590300 bbls. (Grind out: 20%-gas; 40%-oil; 40%-mud)

Recovered 630 ft. of TOTAL FLUID = 6.463800 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 25%-mud; 28%-gas; 47%-oil

Time Set Packer(s) 1:43 A.M. P.M. Time Started Off Bottom 4:43 A.M. P.M. Maximum Temperature 126°

Initial Hydrostatic Pressure ..... (A) 2078 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 15 P.S.I. to (C) 111 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1168 P.S.I.

Final Flow Period ..... Minutes 45 (E) 121 P.S.I. to (F) 239 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1148 P.S.I.

Final Hydrostatic Pressure ..... (H) 2069 P.S.I.

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

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Dubh-Fussell No. 1-A

Date 3-15-05 Sec. 33 Twp. 15 S Range 30 W

Formation Test No. 4 Interval Tested From 4,285 ft. to 4,355 ft. Total Depth 4,355 ft.

Formation Myrick Station/Fort Scott

	MUD PIT	RECOVERY
Viscosity	59 CP	-- CP
Weight	9.4	--
Water Loss	9.2 CC	-- CC
PH Factor	10.5	--

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	--	@ --	°F.	-- ppm
Recovery Mud Filtrate	--	@ --	°F.	-- ppm
Mud Pit Sample	1.40	@ 72	°F.	4,200 ppm
Mud Pit Sample Filtrate	1.50	@ 74	°F.	3,600 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,400 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: DUBH / FUSSELL A-1

Operator: L.D. DRILLING, INC.

Location-Downhole: DST #4 MYRICK ST / FT SCOTT 4,285' - 4,355'

Location-Surface: SEC 33-15S-30W GOVE COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2005/03/14	Start Time:	23:44:00
End Date:	2005/03/15	End Time:	08:16:00
Report Date:		Prepared By:	
Remarks:		Qualified By:	

RECOVERED: GTS ON FINAL FLOW - BURNED NICELY
475' CGO 20% GAS, 80% OIL 35 GRAVITY @ 60 deg>
155' HG&OCM 20% GAS, 40% OIL, 40% MUD
630' TOTAL FLUID

TOOL SAMPLE: 25% MUD, 28% GAS, 47% OIL.

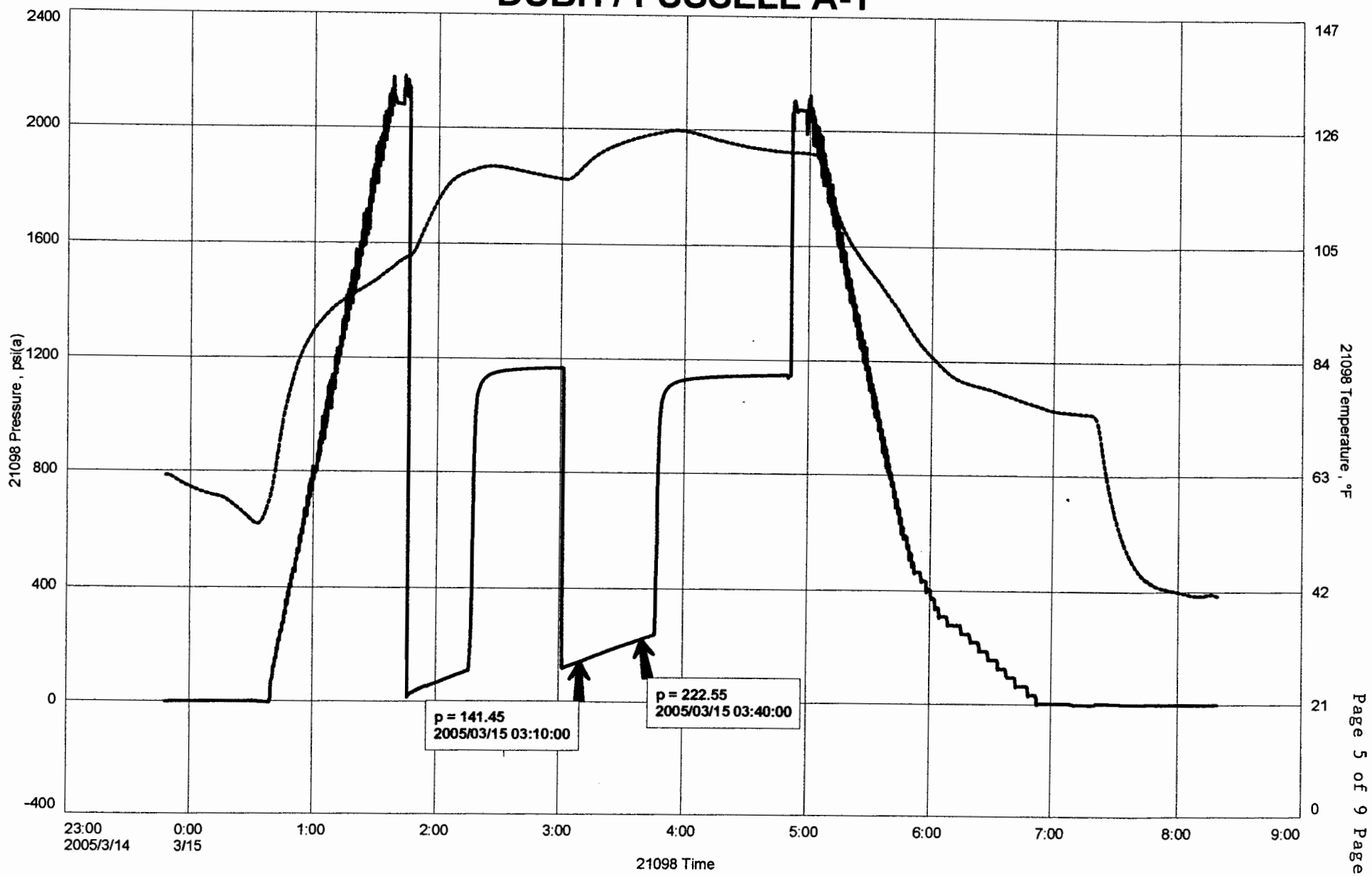
L.D. DRILLING, INC.

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE-ID	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PROD.	AVERAGE % OIL	ESTIMATED PRODUCTION
FINAL FLOW	223	141	82	0.0142	0.368	30	1440	152	1	152

L.D. DRILLING, INC.
DST #4 MYRICK ST / FT SCOTT 4,285' - 4,355'
Start Test Date: 2005/03/14
Final Test Date: 2005/03/15

DUBH / FUSSELL A-1
Formation: DST #4 MYRICK ST / FT SCOTT 4,285' - 4,355'
Pool: WILDCAT

DUBH / FUSSELL A-1



Fast

Oil Well Test - Buildup
Radial Flow Analysis

L.D. DRILLING, INC

DUBH / FUSSELL A-1

DST #4 MYRICK-FT. SCOTT 4,285' - 4,355

Analysis Results

Total Sandface Rate (q_tB_t)	189.757 bbl/d
Semilog Slope (m)	94.37
Gas Permeability (k_g)	md
Oil Permeability (k_o)	91.615 md
Water Permeability (k_w)	md
Flow Capacity (kh)	366.459 md.ft
Total Mobility (k/μ_t)	81.74 md/cp
Total Transmissivity(kh/μ_t)	326.96 md.ft/cp

Apparent Skin (s')	7.214
Skin - Damage	7.214
Skin - Inclination	
Skin - Partial Penetration	
Pressure Drop Due to Skin (Δp_s)	591.61 psi
Damage Ratio (DR)	1.401
Flow Efficiency (FE)	0.714

Reservoir Parameters

Net Pay (h)	4.000 ft
Total Porosity (ϕ_t)	12.00 %
Water Saturation (S_w)	20.00 %
Oil Saturation (S_o)	80.00 %
Gas Saturation (S_g)	0.00 %
Wellbore Radius (r_w)	0.30 ft
Formation Temperature (T)	120.0 °F
Formation Compressibility (c_f)	4.508e-6 psi^{-1}
Total Compressibility (c_t)	1.331e-5 psi^{-1}

Pressures

Initial Pressure (p_i)	2179.54 psi
Extrapolated Pressure (p*)	1195.03 psi
Final Flowing Pressure (p_{wfo})	238.00 psi

Production and Times

Corrected Flow Time (t_c)	0.4945 hr
Cumulative Oil Production	7.899 bbl
Final Oil Rate	152.000 bbl/d

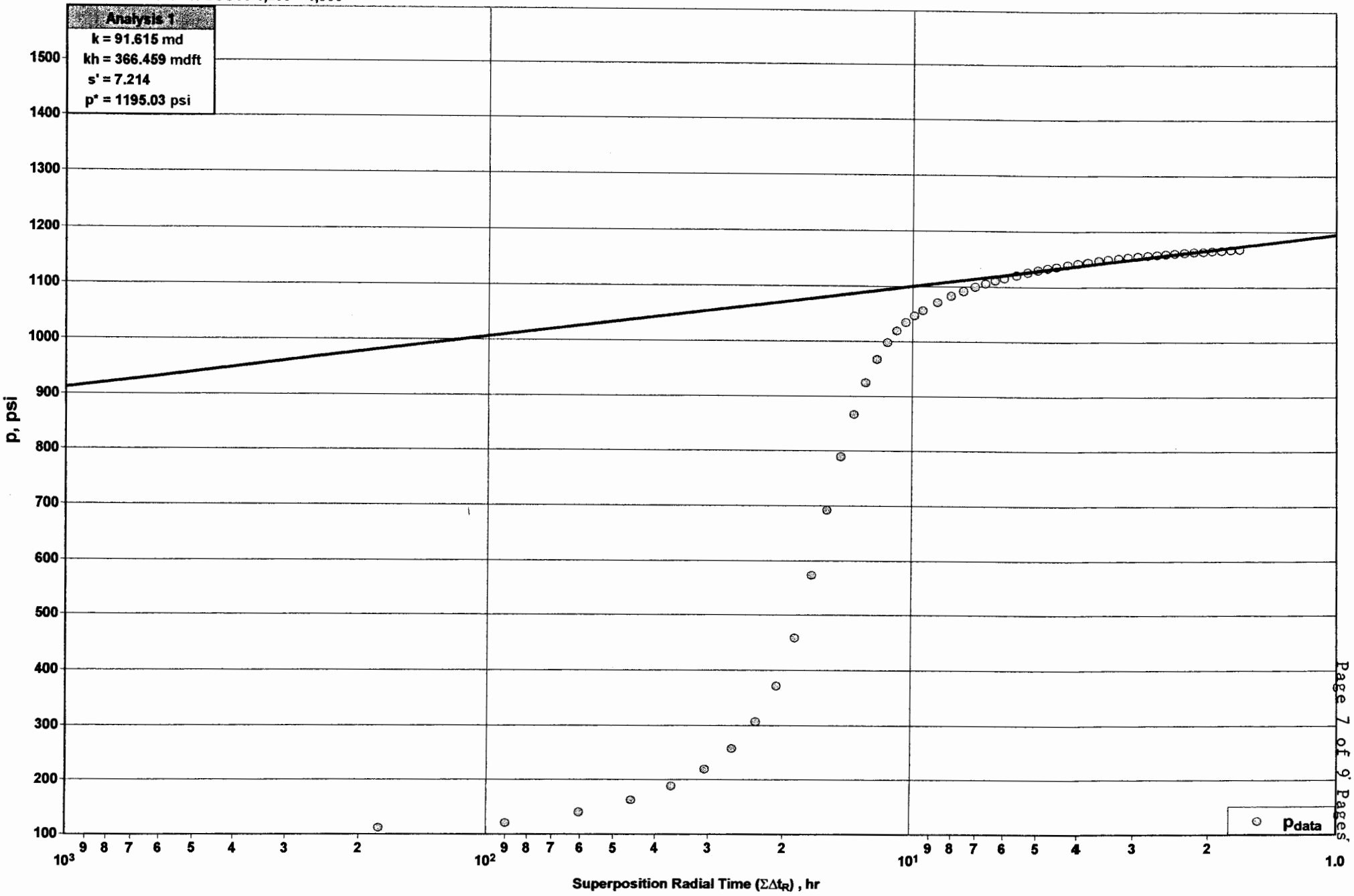
Fluid Properties

Oil Compressibility (c_o)	1.20528e-5 psi^{-1}
Oil Formation Volume Factor (B_o)	1.248
Oil Viscosity (μ_o)	1.121 cp
Solution Gas Ratio (R_s)	444 scf/bbl
Oil Gravity (y_o)	35.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (p_{PVT})	2179.54 psi

L.D. DRILLING, INC
DUBH / FUSSELL A-1
DST #4 MYRICK-FT. SCOTT 4,285' - 4,355

DUBH / FUSSELL A-1

HORNER PLOT INISTIAL SHUT-IN



Oil Well Test - Buildup
Radial Flow Analysis

L.D. DRILLING, INC

DUBH / FUSSELL A-1

DST #4 MYRICK-FT. SCOTT 4,285' - 4,355

Analysis Results

Total Sandface Rate (q_tB_t)	189.757 bbl/d	Apparent Skin (s')	10.207
Semilog Slope (m)	64.15	Skin - Damage	10.207
Gas Permeability (k_g)	md	Skin - Inclination	
Oil Permeability (k_o)	134.780 md	Skin - Partial Penetration	
Water Permeability (k_w)	md	Pressure Drop Due to Skin (Δp_s)	568.98 psi
Flow Capacity (kh)	539.118 md.ft	Damage Ratio (DR)	1.415
Total Mobility (k/μ_t)	120.25 md/cp	Flow Efficiency (FE)	0.707
Total Transmissivity(kh/μ_t)	481.01 md.ft/cp		

Reservoir Parameters

Net Pay (h)	4.000 ft
Total Porosity (ϕ_t)	12.00 %
Water Saturation (S_w)	20.00 %
Oil Saturation (S_o)	80.00 %
Gas Saturation (S_g)	0.00 %
Wellbore Radius (r_w)	0.30 ft
Formation Temperature (T)	120.0 °F
Formation Compressibility (c_f)	4.508e-6 psi^{-1}
Total Compressibility (c_t)	1.474e-5 psi^{-1}

Pressures

Initial Pressure (p_i)	2179.54 psi
Extrapolated Pressure (p*)	1168.31 psi
Final Flowing Pressure (p_{wfo})	238.00 psi

Production and Times

Corrected Flow Time (t_c)	1.2445 hr
Cumulative Oil Production	7.899 bbl
Final Oil Rate	152.000 bbl/d

Fluid Properties

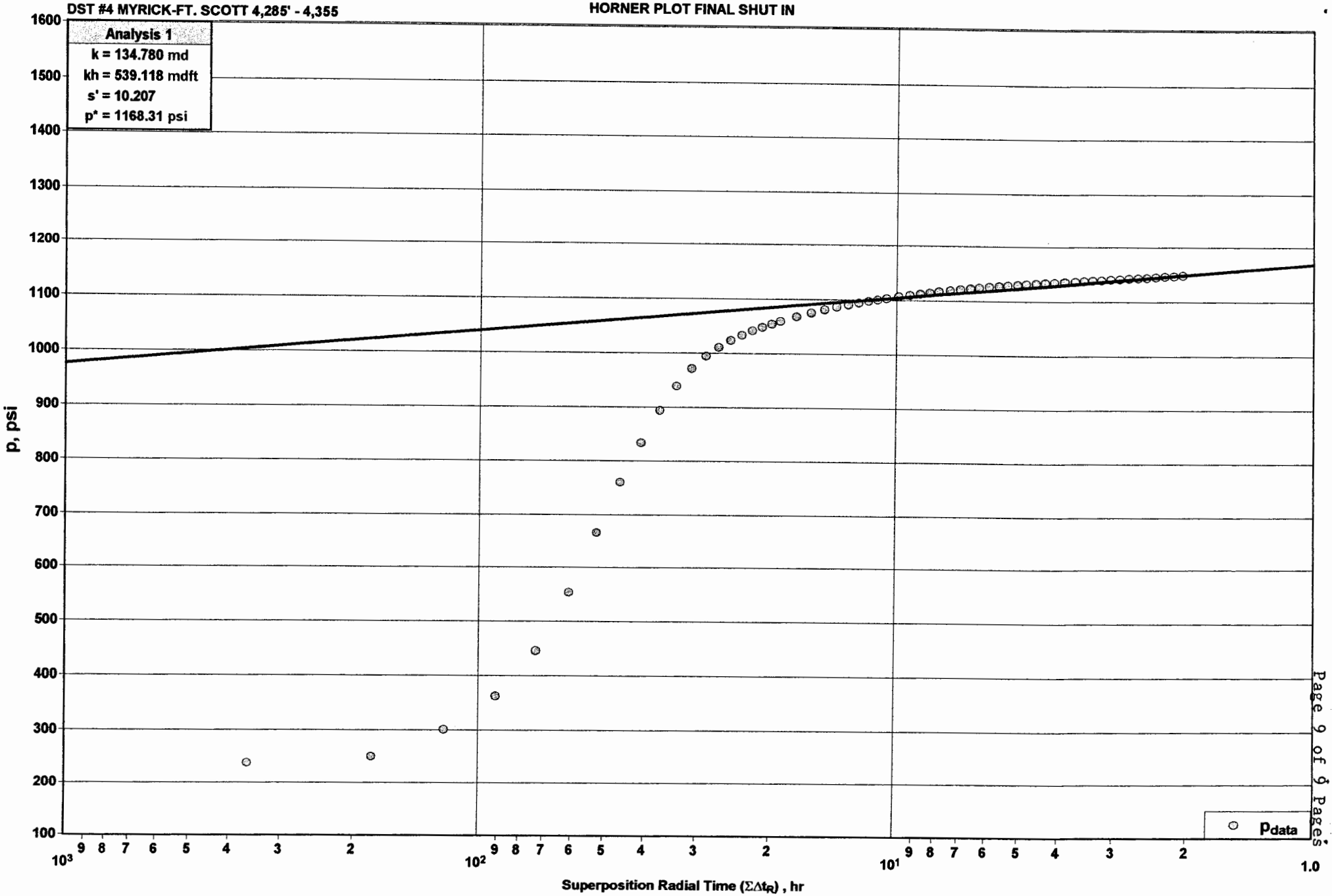
Oil Compressibility (c_o)	1.20528e-5 psi^{-1}
Oil Formation Volume Factor (B_o)	1.248
Oil Viscosity (μ_o)	1.121 cp
Solution Gas Ratio (R_s)	444 scf/bbl
Oil Gravity (γ_o)	35.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (p_{PVT})	2179.54 psi

Fact

L.D. DRILLING, INC
DUBH / FUSSELL A-1
DST #4 MYRICK-FT. SCOTT 4,285' - 4,355

DUBH / FUSSELL A-1

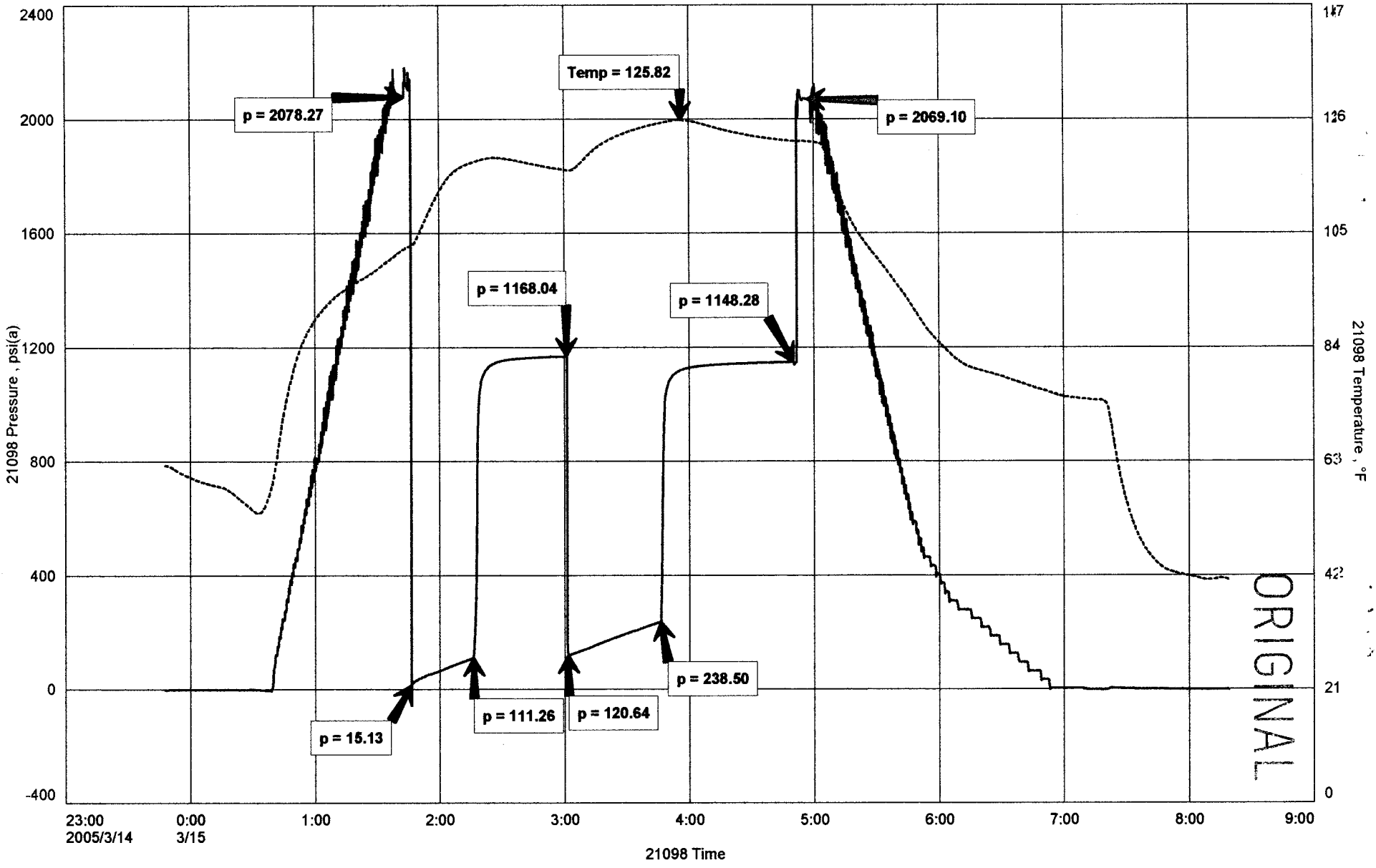
HORNER PLOT FINAL SHUT IN



L.D. DRILLING, INC.
DST #4 MYRICK ST / FT SCOTT 4,285' - 4,355'
Start Test Date: 2005/03/14
Final Test Date: 2005/03/15

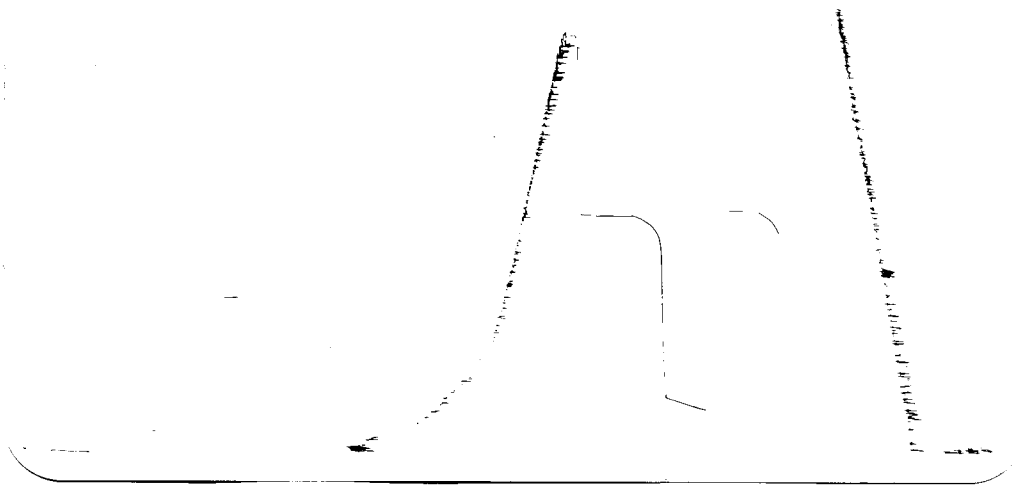
DUBH / FUSSELL A-1
Formation: DST #4 MYRICK ST / FT SCOTT 4,285' - 4,355'
Pool: WILDCAT

DUBH / FUSSELL A-1



ORIGINAL

DST #4 outside 13387 4285-4385
Myrick / Ft Scott Loc 4352



This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2078	2078	PSI
(B)	First Initial Flow Pressure	15	15	PSI
(C)	First Final Flow Pressure	111	111	PSI
(D)	Initial Closed-in Pressure	1168	1168	PSI
(E)	Second Initial Flow Pressure	121	121	PSI
(F)	Second Final Flow Pressure	239	239	PSI
(G)	Final Closed-in Pressure	1148	1148	PSI
(H)	Final Hydrostatic Mud	2069	2069	PSI

COMPANY ... LEASE AND WELL NO. ...

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.D89

ORIGINAL

Company L. D. Drilling, Inc. Lease & Well No. Dubh-Fussell No. 1-A

Elevation 2718 KB Formation Johnson Effective Pay 6 Ft. Ticket No. 1978

Date 3-15-05 Sec. 33 Twp. 15S Range 30W County Gove State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 5 Interval Tested from 4,363 ft. to 4,407 ft. Total Depth 4,407 ft.

Packer Depth 4,358 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,363 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,351 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,404 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 56 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.35 Water Loss 8.8 cc. Drill Pipe Length 4,338 ft. I.D. 3¼ in.

Chlorides 1,200 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 44 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 3/4 mins. Strong blow back off bottom of bucket during shut-in.
2nd Open: Strong blow. Off bottom of bucket in 2½ mins. Strong blow back off bottom of bucket during shut-in. Gas to surface in 6 mins. Too small to measure.

Recovered 1,438 ft. of clean gassy oil = 14.753880 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 32 @ 60°

Recovered 95 ft. of gas & oil cut mud = .974700 bbls. (Grind out: 28%-gas; 36%-oil; 36%-mud)

Recovered 1,533 ft. of TOTAL FLUID = 15.728580 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample: Blew out!

Time Set Packer(s) 6:50 ~~A~~M. P.M. Time Started Off Bottom 9:50 ~~A~~M. P.M. Maximum Temperature 132°

Initial Hydrostatic Pressure ..... (A) 2114 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 52 P.S.I. to (C) 288 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1164 P.S.I.

Final Flow Period ..... Minutes 45 (E) 297 P.S.I. to (F) 545 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1156 P.S.I.

Final Hydrostatic Pressure ..... (H) 2102 P.S.I.

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

FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Dubh-Fussell No. 1-A

Date 3-15-05 Sec. 33 Twp. 15 S Range 30 W

Formation Test No. 5 Interval Tested From 4,363 ft. to 4,407 ft. Total Depth 4,407 ft.

Formation Johnson

	MUD PIT	RECOVERY
Viscosity	56 CP	-- CP
Weight	9.35	--
Water Loss	8.8 CC	-- CC
PH Factor	10.0	--

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	--	@ --	°F.	-- ppm
Recovery Mud Filtrate	--	@ --	°F.	-- ppm
Mud Pit Sample	1.90	@ 64	°F.	3,800 ppm
Mud Pit Sample Filtrate	2.05	@ 68	°F.	2,900 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 1,200 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: DUBH / FUSSELL A-1

Operator: L.D. DRILLING, INC.

Location-Downhole: DST #5 JOHNSON 4,363' - 4,407'

Location-Surface: SEC 33-15S-30W

Test Information:

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

Start Date: 2005/03/15 Start Time: 17:13:00

End Date: 2005/03/16 End Time: 02:27:00

Report Date: Prepared By:

Remarks: Qualified By:

RECOVERED: GTS IN 6 MIN TSTM
1,438' CGO 10% GAS, 90% OIL - GRAVITY 32 @ 60 deg
95' G&OCM 28% GAS, 36% OIL, 36% MUD
1,533' TOTAL FLUID

TOOL SAMPLE: BLEW OUT

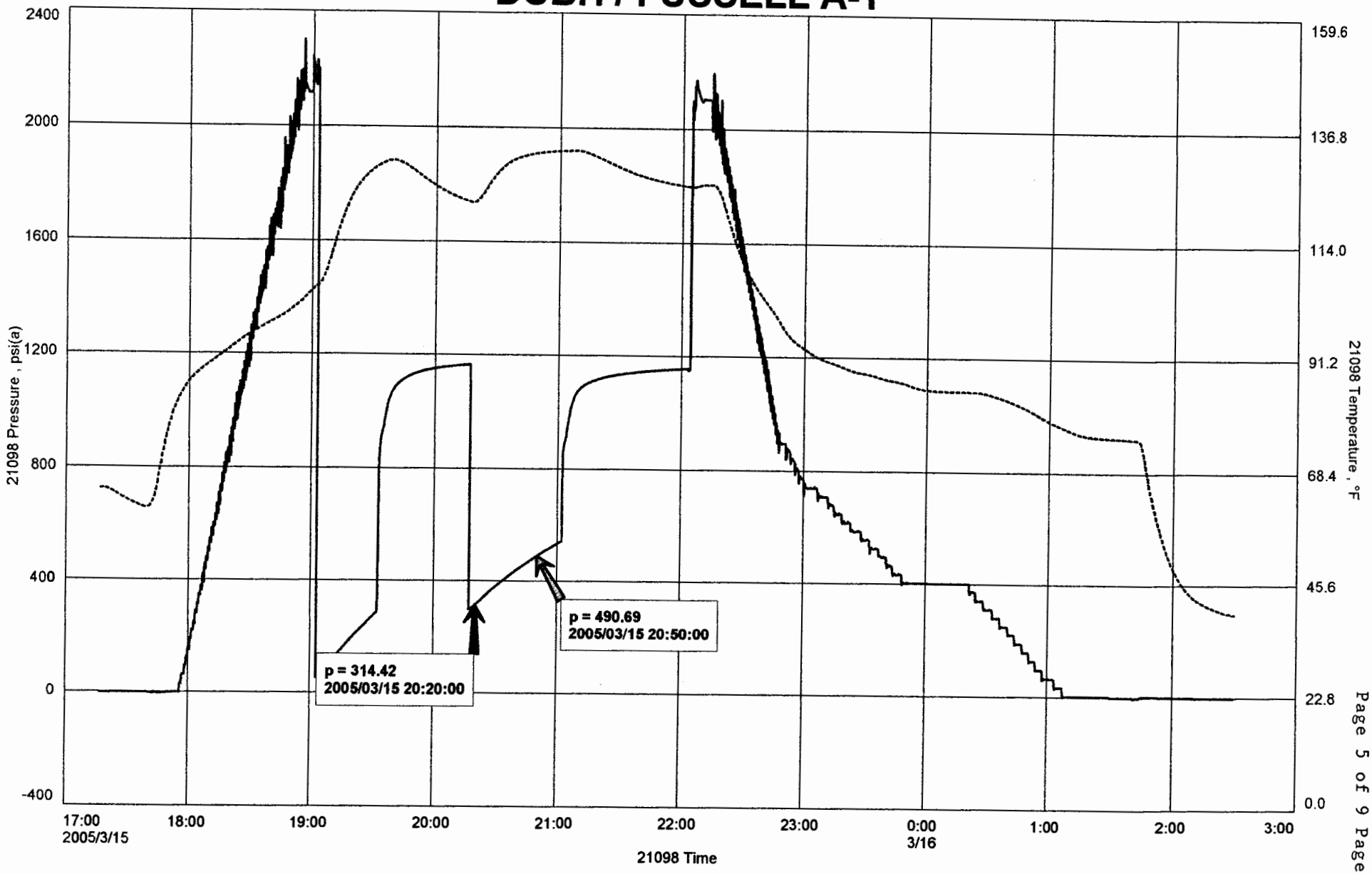
L.D. DRILLING, INC.

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE-ID	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PROD.	AVERAGE % OIL	ESTIMATED PRODUCTION
FINAL FLOW	491	414	77	0.0142	0.3747	30	1440	140	1	140

L.D. DRILLING, INC.
DST #5 JOHNSON 4,363' - 4,407'
Start Test Date: 2005/03/15
Final Test Date: 2005/03/16

DUBH / FUSSELL A-1
Formation: DST #5 JOHNSON 4,363' - 4,407'
Pool: WILDCAT

DUBH / FUSSELL A-1



Oil Well Test - Buildup
Radial Flow Analysis

L.D. DRILLING, INC

DUBH / FUSSELL A-1

DST #5 4,363' - 4,407'

Analysis Results

Total Sandface Rate (q_tB_t)	172.707 bbl/d
Semilog Slope (m)	219.32
Gas Permeability (k_g)	md
Oil Permeability (k_o)	28.292 md
Water Permeability (k_w)	md
Flow Capacity (kh)	169.751 md.ft
Total Mobility (k/μ_t)	21.34 md/cp
Total Transmissivity(kh/μ_t)	128.04 md.ft/cp

Apparent Skin (s')	-0.388
Skin - Damage	-0.388
Skin - Inclination	
Skin - Partial Penetration	
Pressure Drop Due to Skin (Δp_s)	-73.98 psi
Damage Ratio (DR)	0.965
Flow Efficiency (FE)	1.037

Reservoir Parameters

Net Pay (h)	6.000 ft
Total Porosity (ϕ_t)	12.00 %
Water Saturation (S_w)	20.00 %
Oil Saturation (S_o)	80.00 %
Gas Saturation (S_g)	0.00 %
Wellbore Radius (r_w)	0.30 ft
Formation Temperature (T)	120.0 °F
Formation Compressibility (c_f)	4.508e-6 psi^{-1}
Total Compressibility (c_t)	1.393e-5 psi^{-1}

Pressures

Initial Pressure (p_i)	2298.65 psi
Extrapolated Pressure (p*)	1224.04 psi
Final Flowing Pressure (p_{wfo})	544.53 psi

Production and Times

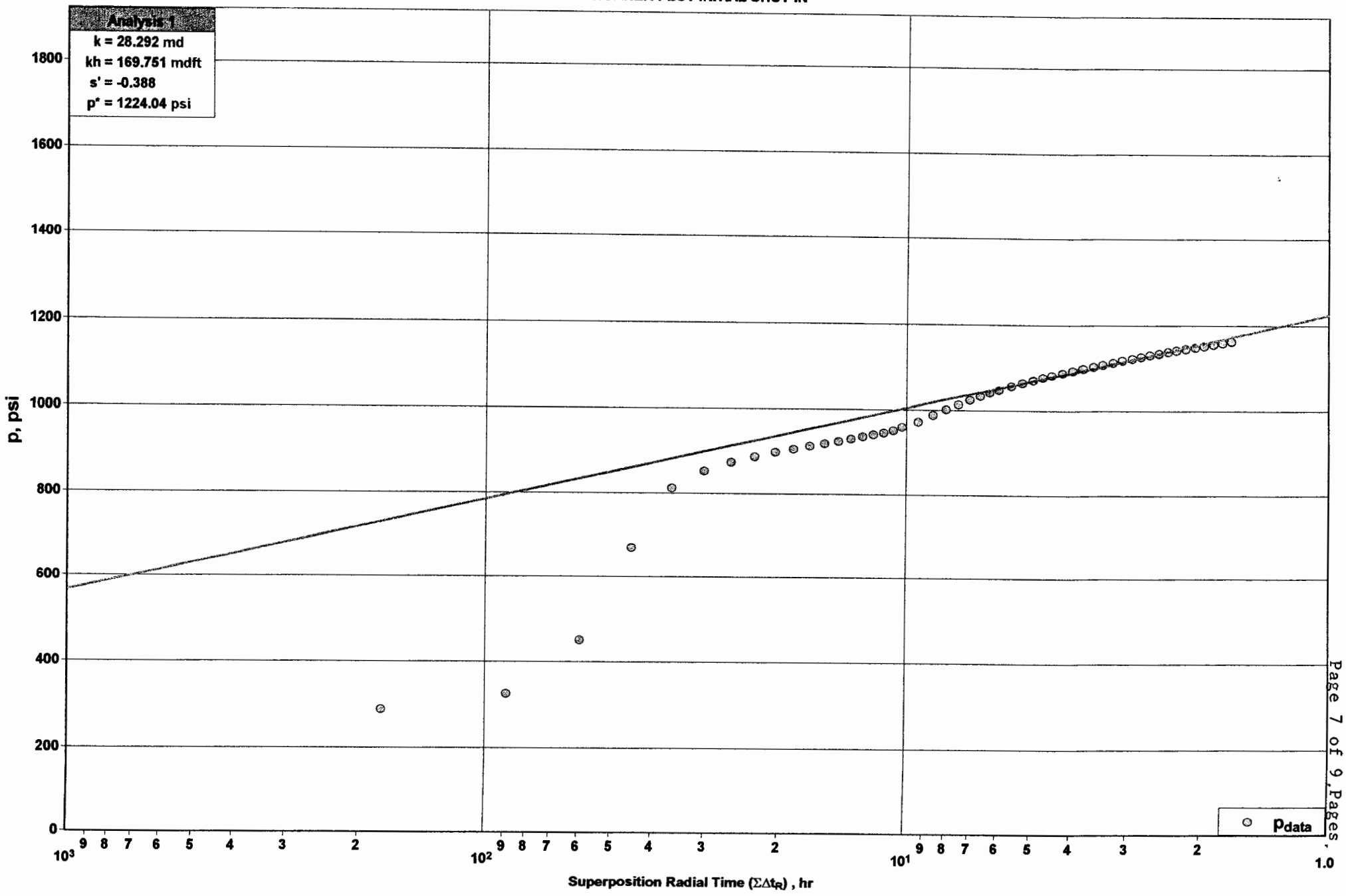
Corrected Flow Time (t_c)	0.4889 hr
Cumulative Oil Production	7.259 bbl
Final Oil Rate	140.000 bbl/d

Fluid Properties

Oil Compressibility (c_o)	1.10361e-5 psi^{-1}
Oil Formation Volume Factor (B_o)	1.234
Oil Viscosity (μ_o)	1.326 cp
Solution Gas Ratio (R_s)	413 scf/bbl
Oil Gravity (y_o)	32.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (p_{PVT})	2298.65 psi

DUBH / FUSSELL A-1 DST#5

HORNER PLOT INITIAL SHUT-IN



Oil Well Test - Buildup
Radial Flow Analysis

L.D. DRILLING, INC

DUBH / FUSSELL A-1

DST #5 4,363' - 4,407'

Analysis Results

Total Sandface Rate (q_tB_t)	172.707 bbl/d
Semilog Slope (m)	123.72
Gas Permeability (k_g)	md
Oil Permeability (k_o)	50.154 md
Water Permeability (k_w)	md
Flow Capacity (kh)	300.923 md.ft
Total Mobility (k/μ_t)	37.83 md/cp
Total Transmissivity(kh/μ_t)	226.98 md.ft/cp

Apparent Skin (s')	0.124
Skin - Damage	0.124
Skin - Inclination	
Skin - Partial Penetration	
Pressure Drop Due to Skin (Δp_s)	13.31 psi
Damage Ratio (DR)	1.008
Flow Efficiency (FE)	0.992

Reservoir Parameters

Net Pay (h)	6.000 ft
Total Porosity (ϕ_t)	12.00 %
Water Saturation (S_w)	20.00 %
Oil Saturation (S_o)	80.00 %
Gas Saturation (S_g)	0.00 %
Wellbore Radius (r_w)	0.30 ft
Formation Temperature (T)	120.0 °F
Formation Compressibility (c_f)	4.508e-6 psi^{-1}
Total Compressibility (c_t)	1.393e-5 psi^{-1}

Pressures

Initial Pressure (p_i)	2298.65 psi
Extrapolated Pressure (p*)	1195.89 psi
Final Flowing Pressure (p_{wfo})	544.53 psi

Production and Times

Corrected Flow Time (t_c)	1.2417 hr
Cumulative Oil Production	7.259 bbl
Final Oil Rate	140.000 bbl/d

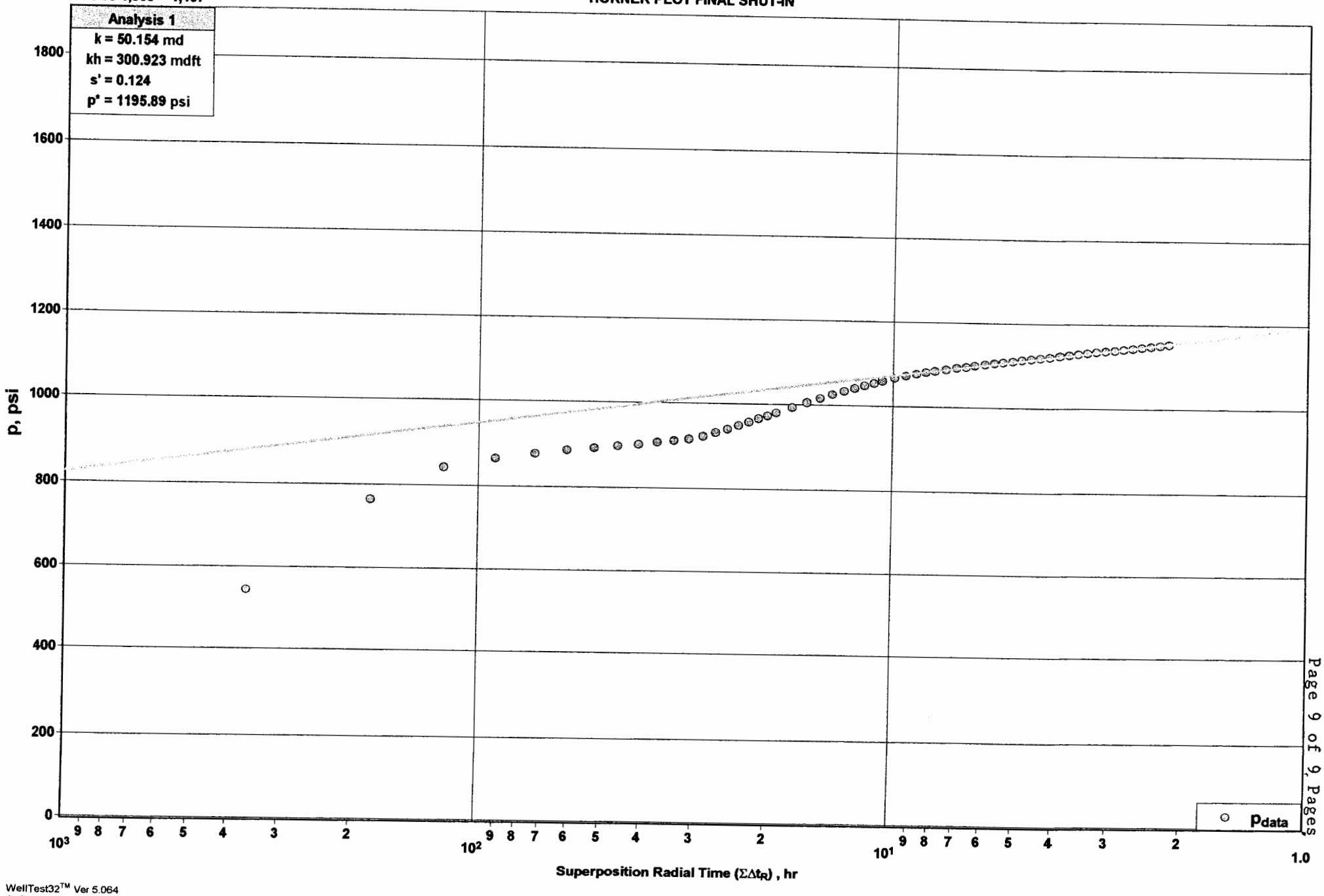
Fluid Properties

Oil Compressibility (c_o)	1.10361e-5 psi^{-1}
Oil Formation Volume Factor (B_o)	1.234
Oil Viscosity (μ_o)	1.326 cp
Solution Gas Ratio (R_s)	413 scf/bbl
Oil Gravity (y_o)	32.00 ° API
Gas Gravity (G)	0.650
PVT Reference Pressure (p_{PVT})	2298.65 psi

L.D. DRILLING, INC
DUBH / FUSSELL A-1
DST #5 4,363' - 4,407'

DUBH / FUSSELL A-1 DST #5

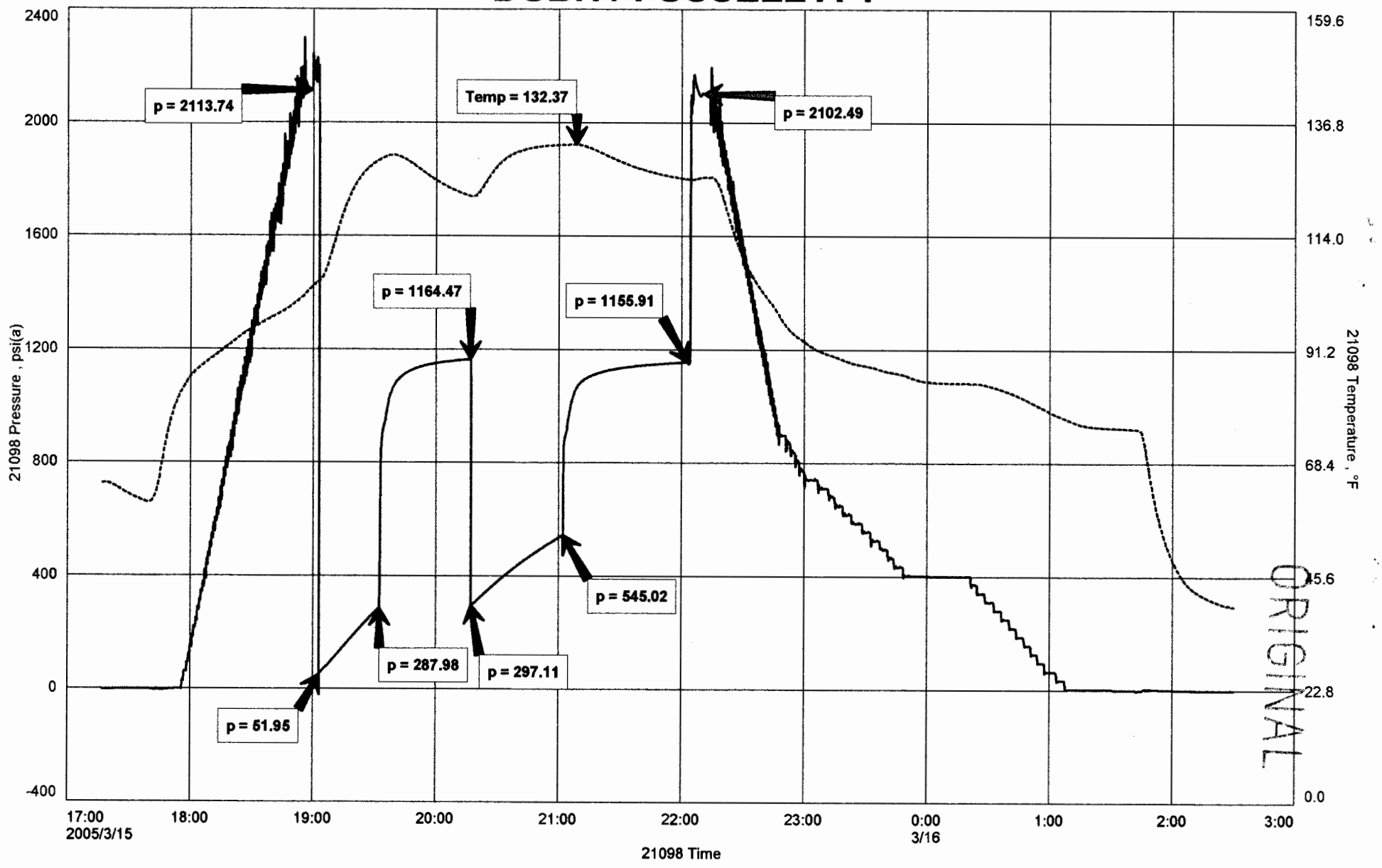
HORNER PLOT FINAL SHUT-IN



L.D. DRILLING, INC.
DST #5 JOHNSON 4,363' - 4,407'
Start Test Date: 2005/03/15
Final Test Date: 2005/03/16

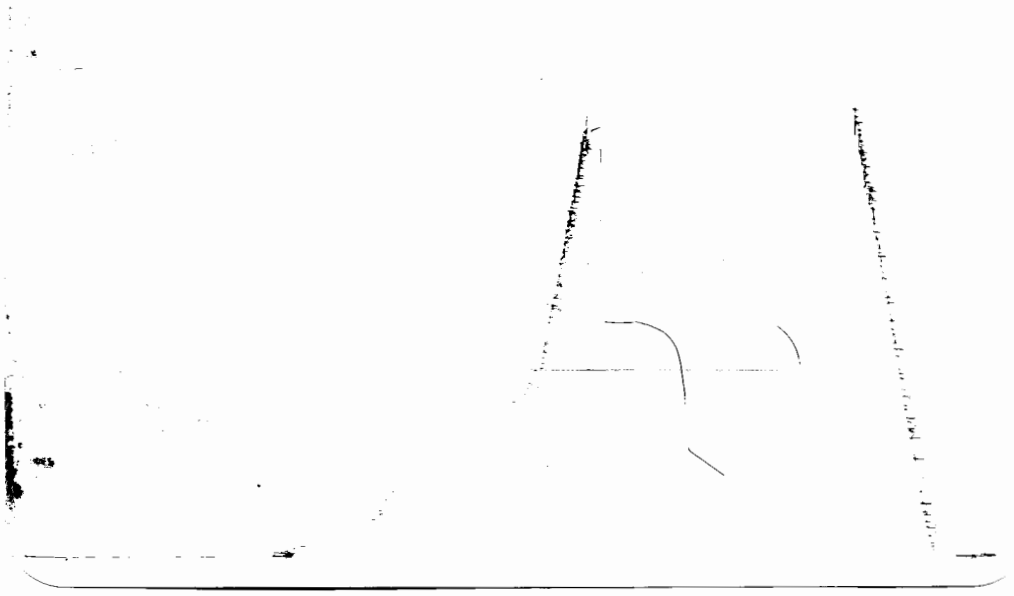
DUBH / FUSSELL A-1
Formation: DST #5 JOHNSON 4,363' - 4,407'
Pool: WILDCAT

DUBH / FUSSELL A-1



DST # 5 Outside, 13387
Johnson

4363-4407
LOC 4404



This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2114	2114	PSI
(B)	First Initial Flow Pressure	52	52	PSI
(C)	First Final Flow Pressure	288	288	PSI
(D)	Initial Closed-in Pressure	1164	1164	PSI
(E)	Second Initial Flow Pressure	297	297	PSI
(F)	Second Final Flow Pressure	545	545	PSI
(G)	Final Closed-in Pressure	1156	1156	PSI
(H)	Final Hydrostatic Mud	2102	2102	PSI

COMPANY B. D. BAILEY, INC. LEASE AND WELL NO.