

DIAMOND TESTING AUG 02 2002

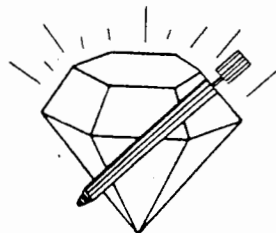
P.O. Box 157

HOISINGTON, KANSAS 67544 KCC WICHITA
(620) 653-7550 • (800) 542-7313

Page 1 of 5 Pages

Company L. D. Drilling, Inc. Lease & Well No. York No. 1
Elevation 2625 KB Formation Lansing/Kansas City (70' - 90' Zones) Effective Pay --Ft. Ticket No. J1234
Date 4/10/02 Sec. 2 Twp. 16S Range 30W County Lane State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl
Formation Test No. 1 Interval Tested from 3,781 ft. to 3,813 ft. Total Depth 3,813 ft.
Packer Depth 3,776 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3,781 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set -- ft.
Top Recorder Depth (Inside) 3,784 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,810 ft. Recorder Number 13556 Cap. 5,475 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 54 Weight Pipe Length -- ft. I.D. -- in.
Weight 8.9 Water Loss 8.8 cc. Drill Pipe Length 3,790 ft. I.D. 3 1/2 in.
Chlorides 1,500 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 slowly building to 3 1/2 ins.
2nd Open: Weak, 1 in., blow decreasing to 1/2 in.
Recovered 70 ft. of gas in pipe
Recovered 50 ft. of mud & gas cut oil = .513000 bbls. (Grind out: 20%-mud; 5%-gas; 75%-oil)
Recovered 50 ft. of TOTAL FLUID = .513000 bbls.
Recovered -- ft. of --
Recovered -- ft. of --
Remarks Gravity check was taken with some mud in sample. Gravity: 28° @ 60°

Time Set Packer(s) 1:20 ~~XXXX~~ P.M. Time Started Off Bottom 4:20 ~~XXXX~~ P.M. Maximum Temperature 112°
Initial Hydrostatic Pressure (A) 1845 P.S.I.
Initial Flow Period Minutes 30 (B) 13 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period Minutes 45 (D) 918 P.S.I.
Final Flow Period Minutes 45 (E) 25 P.S.I. to (F) 29 P.S.I.
Final Closed In Period Minutes 60 (G) 866 P.S.I.
Final Hydrostatic Pressure (H) 1832 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. York No. 1

Date 4/10/02 Sec. 2 Twp. 16 S Range 30 W

Formation Test No. 1 Interval Tested From 3,781 ft. to 3,813 ft. Total Depth 3,813 ft.

Formation Lansing/Kansas City (70' - 90' Zones)

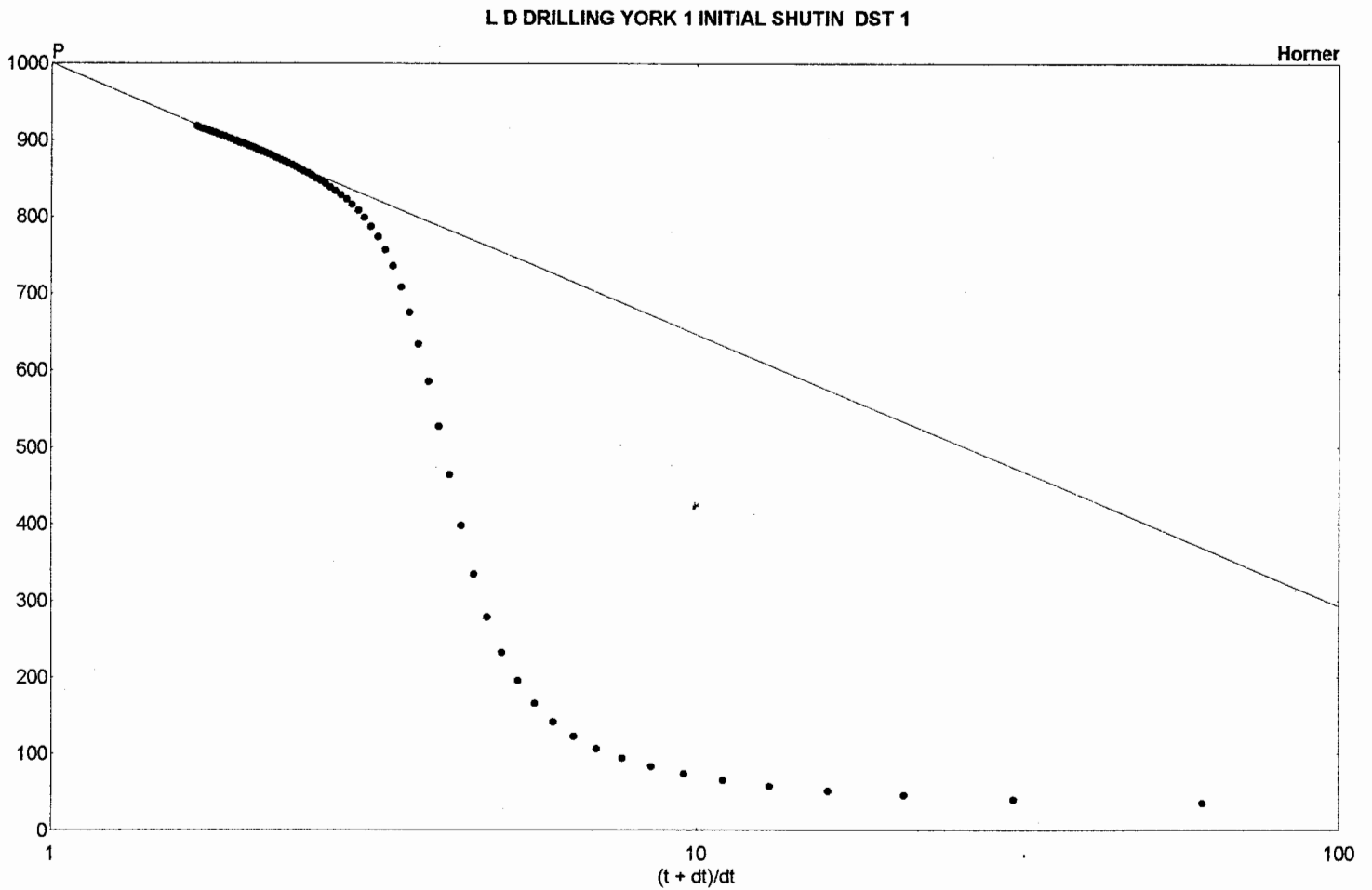
	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>54</u> CP	<u>--</u> CP	TOO OILY
Weight	<u>8.9</u>	<u>--</u>	TO CHECK
Water Loss	<u>8.8</u> CC	<u>--</u> CC	
PH Factor	<u>10.0</u>	<u>--</u>	

	<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>3.60</u> @ <u>70</u> °F. <u>1,800</u> ppm	
Mud Pit Sample Filtrate	<u>3.60</u> @ <u>70</u> °F. <u>1,800</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 1,500 Ppm



L D DRILLING YORK 1 INITIAL SHUTIN DST 1

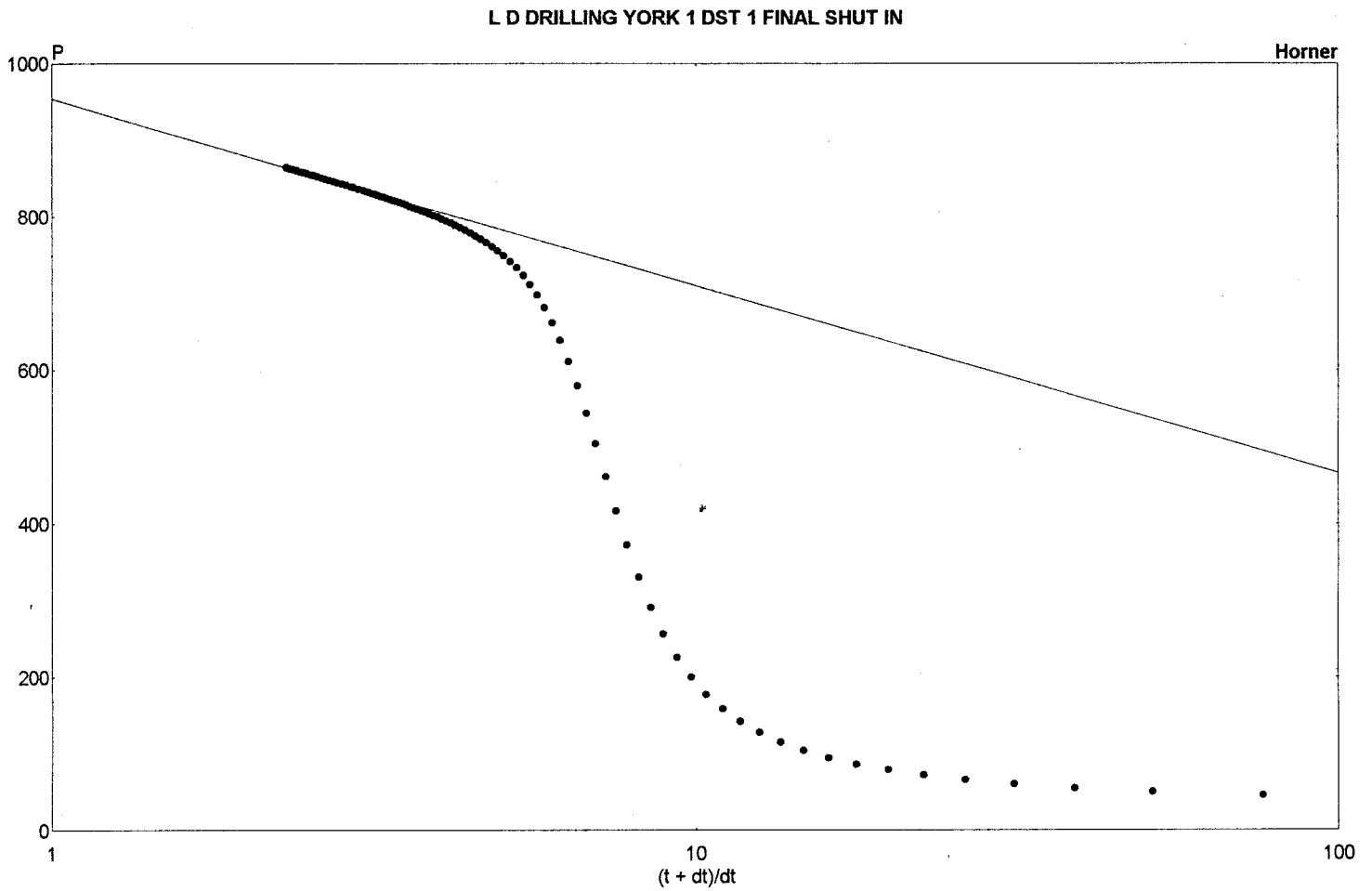
Analysis Results: Horner

Parameters:

Slope = -353.437
 $m(1 \text{ hr}) = 938.623$
 Prd Time: = 0.5 hr

Calculated Values:

$kh = 2.75977 \text{ md-ft}$
 $k = 0.91992 \text{ md}$
 $Skin = 4.73198$
 $P^* = 1000.9 \text{ psi}$



L D DRILLING YORK 1 DST 1 FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -244.09
 $m(1 \text{ hr}) = 869.076$
 Prd Time: = 1.25 hr

Calculated Values:

$kh = 3.99608 \text{ md-ft}$
 $k = 1.33203 \text{ md}$
 $Skin = 5.25421$
 $P^* = 955.04 \text{ psi}$

L D DRILLING YORK 1
DST 1

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	BARRELS	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	24	31	7	0.0074	0.389	30	11.67	1440	6.391773779
							0		

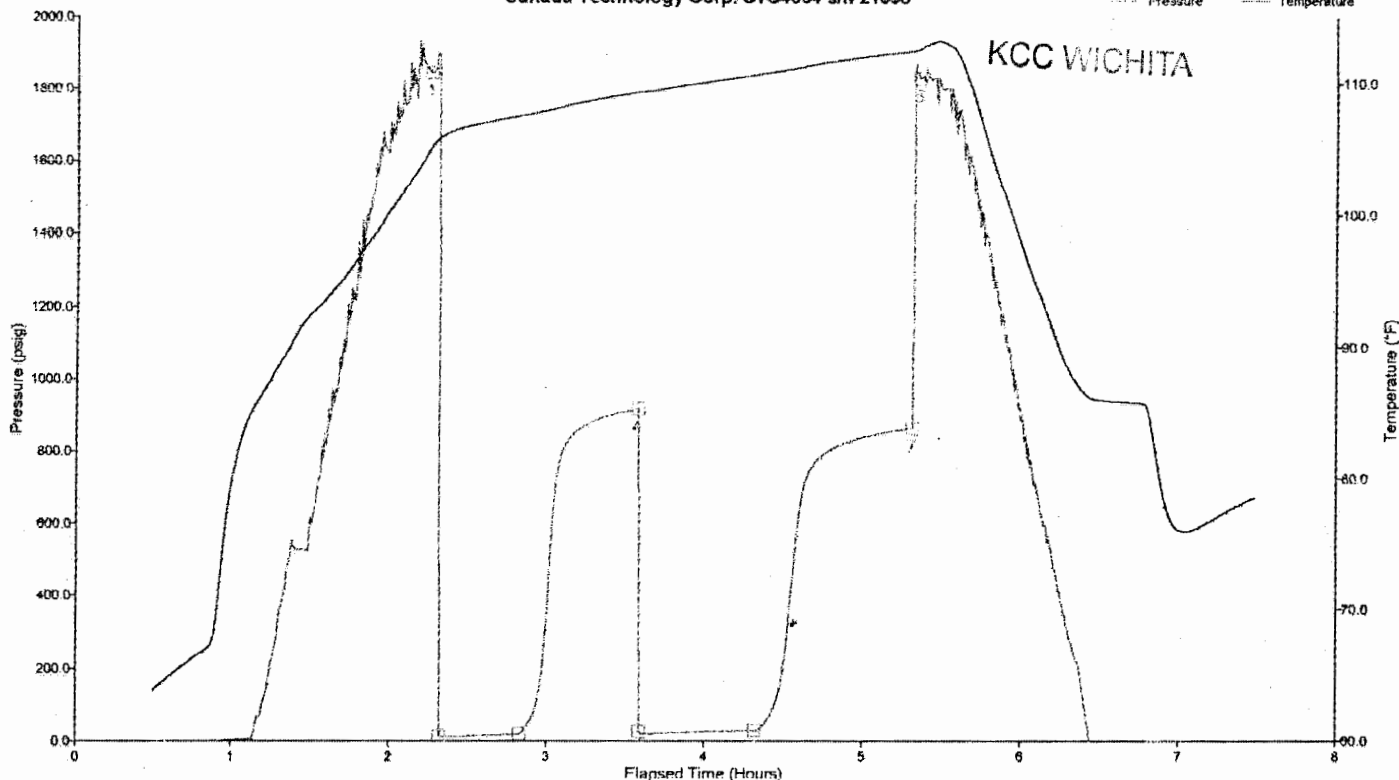
DST #1 LKC 70'+90' ZONES

Well LSP: DUT 1 LK 70' 90' ZONES 3/31-3813
 Well Name: YORK 1
 Company: L D DRILLING INC
 Battery on: Apr 10, 2002 at 11:00:00
 Notes: RECOVERY 70' GIP 50' M+GCO

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Sunada Technology Corp. STC4064 s/n 21098

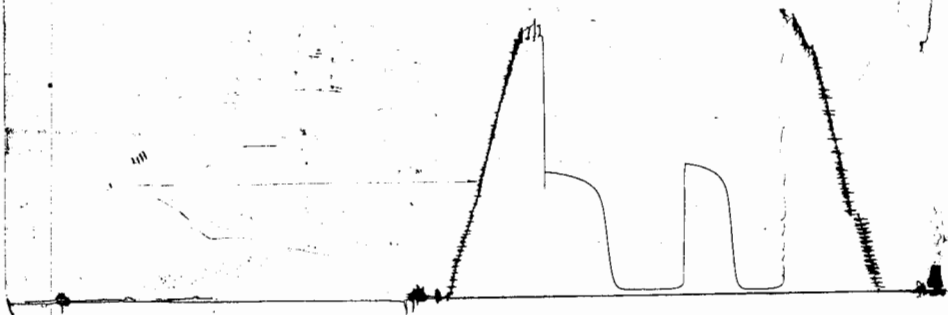


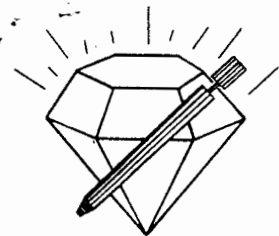
Tag	Pressure	Temperature	Comment
1	1845.15 psig	105.11 °F	2002-04-10 13:16:00
2	12.75 psig	105.85 °F	2002-04-10 13:19:30
3	20.43 psig	107.47 °F	2002-04-10 13:50:00
4	918.48 psig	109.32 °F	2002-04-10 14:35:00
5	25.38 psig	109.33 °F	2002-04-10 14:35:30
6	29.18 psig	110.64 °F	2002-04-10 15:19:30
7	866.24 psig	112.46 °F	2002-04-10 16:19:00
8	1831.87 psig	112.64 °F	2002-04-10 16:21:30

ROC 13556 OUTSIDE
LOC 3810

OST #1 LD
YORK #1

CLOCK # 26208





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Page 1 of 2 Pages

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

Elevation 2625 KB Formation Lansing/Kansas City ("H" & "I" Zones) Ticket No. J1235

Date 4/11/02 Sec. 2 Twp. 16S Range 30W County Lane State Kansas

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

Formation Test No. 2 Interval Tested from 3,876 ft. to 3,944 ft. Total Depth 3,944 ft.

Packer Depth 3,871 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,876 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,879 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,941 ft. Recorder Number 13556 Cap. 5,475 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 43 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 3,856 ft. I.D. 3 1/2 in.

Chlorides 2,400 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 68 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, 5 in., blow in 10 mins. building to 6 ins. by end of flow. No blow back during shut-in.

2nd Open: Weak, 3/4 in., blow decreasing to 1/2 in. by end.

Recovered 30 ft. of gas in pipe

Recovered 3 ft. of clean oil = .030780 bbls.

Recovered 210 ft. of very slightly oil cut gassy watery mud = 2.154600 bbls. (Grind out: 2%-oil; 10%-gas; 5%-water;

Recovered 180 ft. of gas & mud cut water = 1.846800 bbls. (Grind out: 5%-gas; 10%-mud; 85%-water) 83%-mud)

Recovered 393 ft. of TOTAL FLUID = 4.032180 bbls.

Remarks --

Time Set Packer(s) 9:30 A.M. ~~XXX~~ Time Started Off Bottom 12:30 P.M. ~~XXX~~ Maximum Temperature 122°

Initial Hydrostatic Pressure (A) 1930 P.S.I.

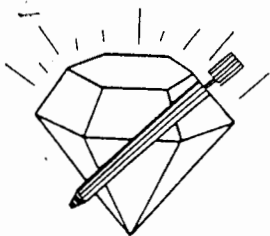
Initial Flow Period Minutes 30 (B) 35 P.S.I. to (C) 120 P.S.I.

Initial Closed In Period Minutes 45 (D) 861 P.S.I.

Final Flow Period Minutes 45 (E) 125 P.S.I. to (F) 215 P.S.I.

Final Closed In Period Minutes 60 (G) 825 P.S.I.

Final Hydrostatic Pressure (H) 1918 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. York No. 1

Date 4/11/02 Sec. 2 Twp. 16 S Range 30 W

Formation Test No. 2 Interval Tested From 3,876 ft. to 3,944 ft. Total Depth 3,944 ft.

Formation Lansing/Kansas City ("H" & "I" Zones)

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>43</u> CP	<u>40</u> CP
Weight	<u>9.1</u>	<u>8.9</u>
Water Loss	<u>10.4</u> CC	<u>20+</u> CC
PH Factor	<u>9.5</u>	<u>9.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.18</u> @ <u>80</u> °F.	<u>35,000</u> ppm
Recovery Mud	<u>2.40</u> @ <u>70</u> °F.	<u>3,000</u> ppm
Recovery Mud Filtrate	<u>.20</u> @ <u>80</u> °F.	<u>31,000</u> ppm
Mud Pit Sample	<u>2.60</u> @ <u>70</u> °F.	<u>2,500</u> ppm
Mud Pit Sample Filtrate	<u>2.60</u> @ <u>70</u> °F.	<u>2,500</u> ppm

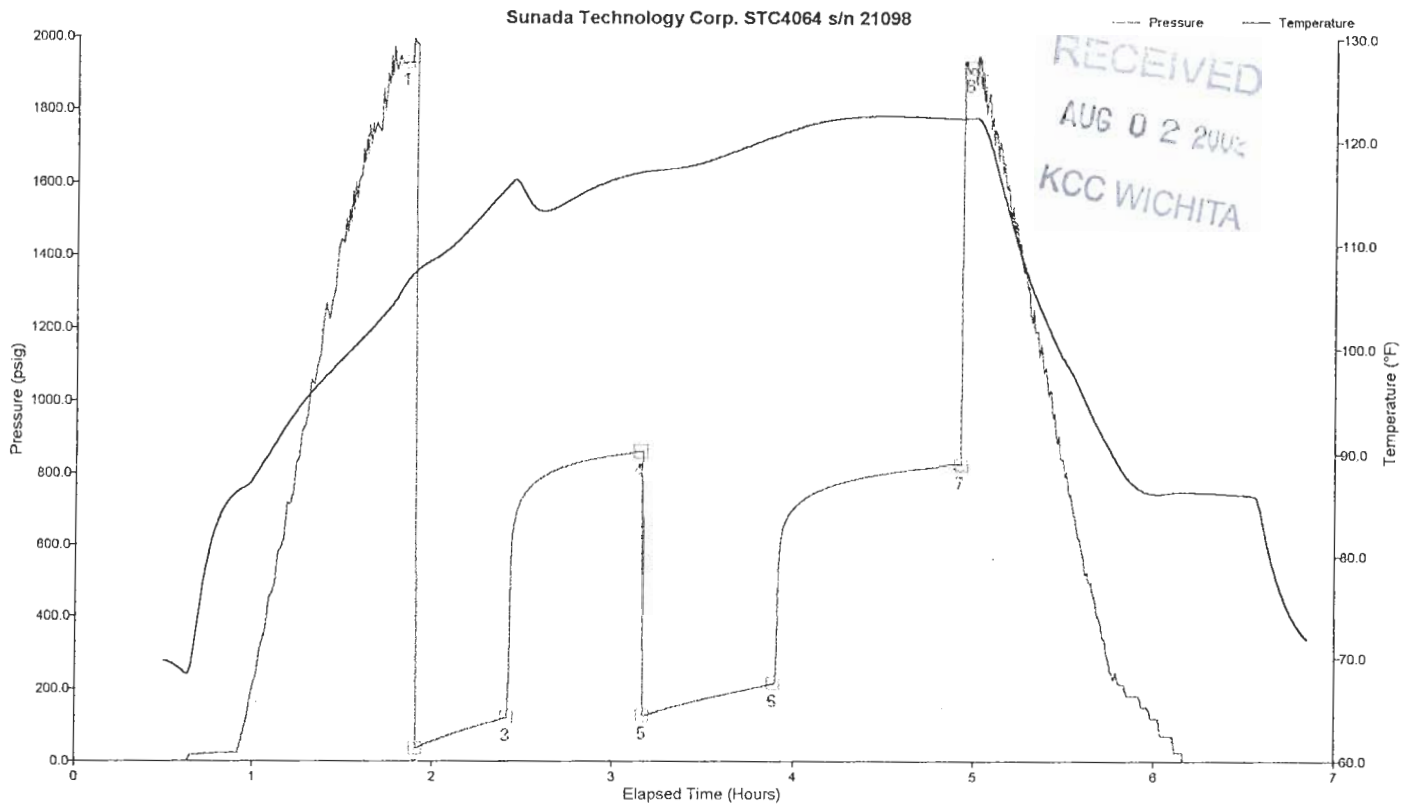
Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,400 Ppm.
Recovery filtrate triton dish chlorides were 28,000 Ppm.
Recovery water dish chlorides were 33,000 Ppm.

Well LSD: DST 2 LKC ^H ^I ZONES 3876-3944
 Well Name: YORK 1
 Company: L D DRILLING INC
 Battery on: Apr 11, 2002 at 07:35:00
 Notes: REC. 30'GIP 3'CLEAN OIL 210'SLOILCUTGASSYMUD 180' GMW

ORIGINAL

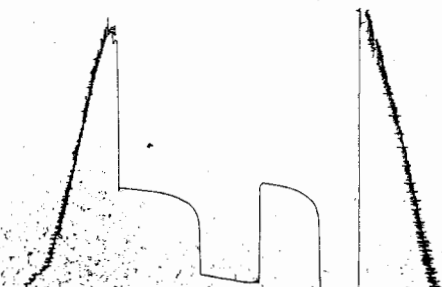


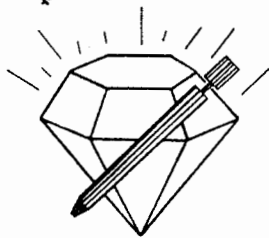
Tag	Pressure	Temperature	Comment
1	1929.88 psig	106.18 °F	2002-04-11 09:25:30
2	35.32 psig	107.54 °F	2002-04-11 09:29:30
3	120.01 psig	115.79 °F	2002-04-11 10:00:00
4	860.73 psig	117.04 °F	2002-04-11 10:44:00
5	125.00 psig	117.09 °F	2002-04-11 10:45:00
6	215.24 psig	120.54 °F	2002-04-11 11:28:30
7	824.98 psig	122.23 °F	2002-04-11 12:30:30
8	1918.12 psig	122.28 °F	2002-04-11 12:33:00

DST #2 RVC 13356
LOC 3941 OUTSIDE

70RK #1
LD.

CLOCK #26750





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Company L. D. Drilling, Inc. Lease & Well No. York No. 1
Elevation 2625 KB Formation Lansing/Kansas City "J" Effective Pay -- Ft. Ticket No. J1236
Date 4/12/02 Sec. 2 Twp. 16S Range 30W County Lane State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,942 ft. to 3,975 ft. Total Depth 3,975 ft.

Packer Depth 3,937 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,942 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,945 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,972 ft. Recorder Number 13556 Cap. 5,475 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 45 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 3,922 ft. I.D. 3 1/2 in.

Chlorides 2,400 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 33 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 9 mins. No blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 15 mins. 1 1/2 in. blow back during shut-in. Dead in 20 mins.

Recovered 1,100 ft. of gas in pipe

Recovered 220 ft. of clean gassy oil = 2.257200 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 38° @ 60°

Recovered 60 ft. of mud cut gassy oil = .615600 bbls. (Grind out: 10%-mud; 20%-gas; 70%-oil)

Recovered 280 ft. of TOTAL FLUID = 2.872800 bbls.

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 10:57 ~~AM~~ ^{PM} Time Started Off Bottom 1:57 ~~PM~~ ^{AM} Maximum Temperature 123°

Initial Hydrostatic Pressure (A) 1913 P.S.I.

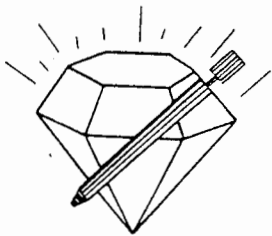
Initial Flow Period Minutes 30 (B) 14 P.S.I. to (C) 61 P.S.I.

Initial Closed In Period Minutes 45 (D) 949 P.S.I.

Final Flow Period Minutes 45 (E) 64 P.S.I. to (F) 114 P.S.I.

Final Closed In Period Minutes 60 (G) 923 P.S.I.

Final Hydrostatic Pressure (H) 1872 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.
Lease & Well No. York No. 1
Date 4/12/02 Sec. 2 Twp. 16 S Range 30 W
Formation Test No. 3 Interval Tested From 3,942 ft. to 3,975 ft. Total Depth 3,975 ft.
Formation Lansing/Kansas City "J"

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>45</u> CP	<u>--</u> CP	TOO OILY
Weight	<u>9.1</u>	<u>--</u>	TO CHECK
Water Loss	<u>10.4</u> CC	<u>--</u> CC	
PH Factor	<u>9.5</u>	<u>--</u>	

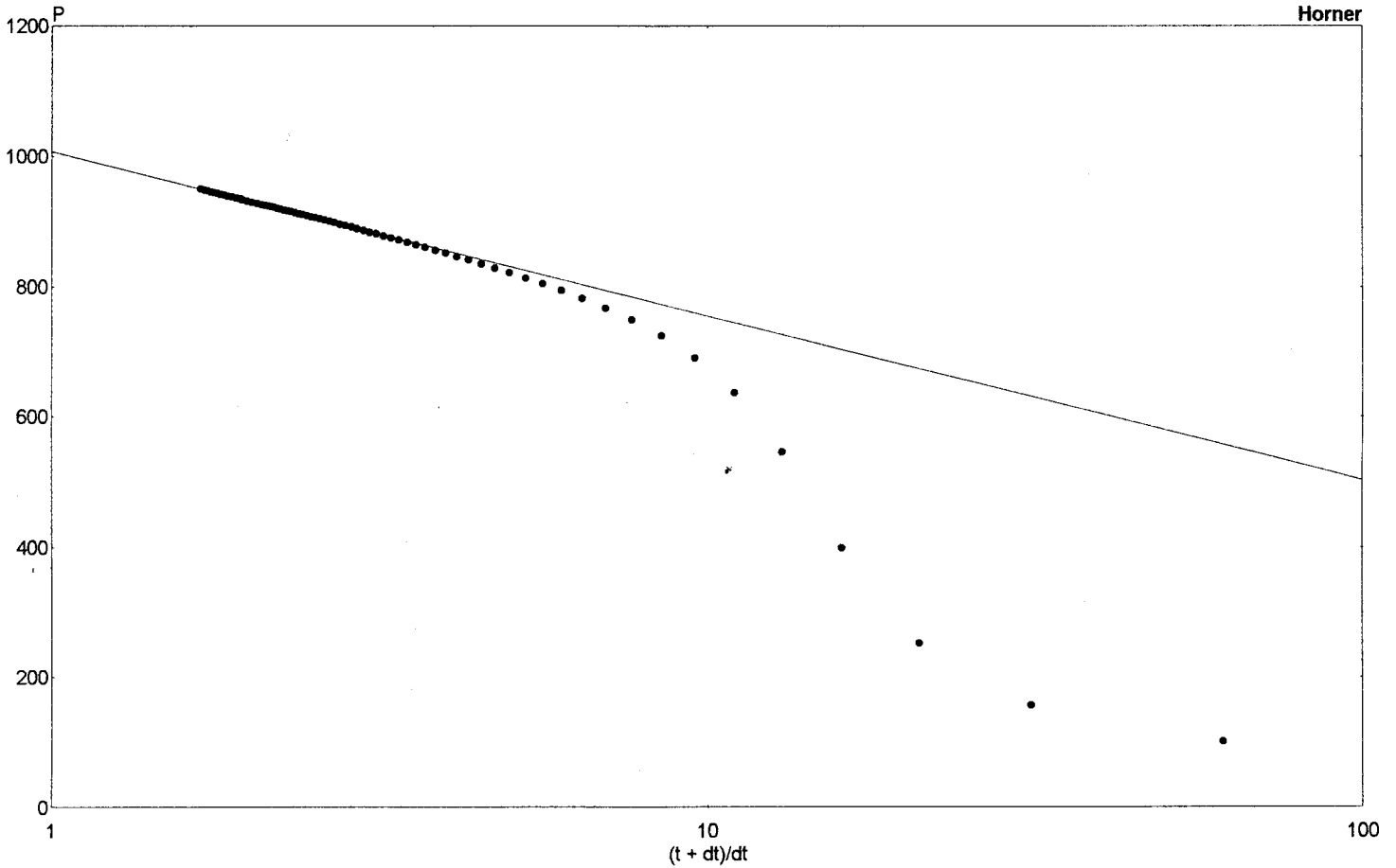
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample	<u>.20</u> @ <u>70</u> °F. <u>3,000</u> ppm	
Mud Pit Sample Filtrate	<u>.21</u> @ <u>70</u> °F. <u>2,900</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 3,000 Ppm.

L D DRILLING DST 3 YORK INITIAL SHUT IN



L D DRILLING DST 3 YORK INITIAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -252.328

$m(1 \text{ hr}) = 963.686$

Prd Time: = 0.5 hr

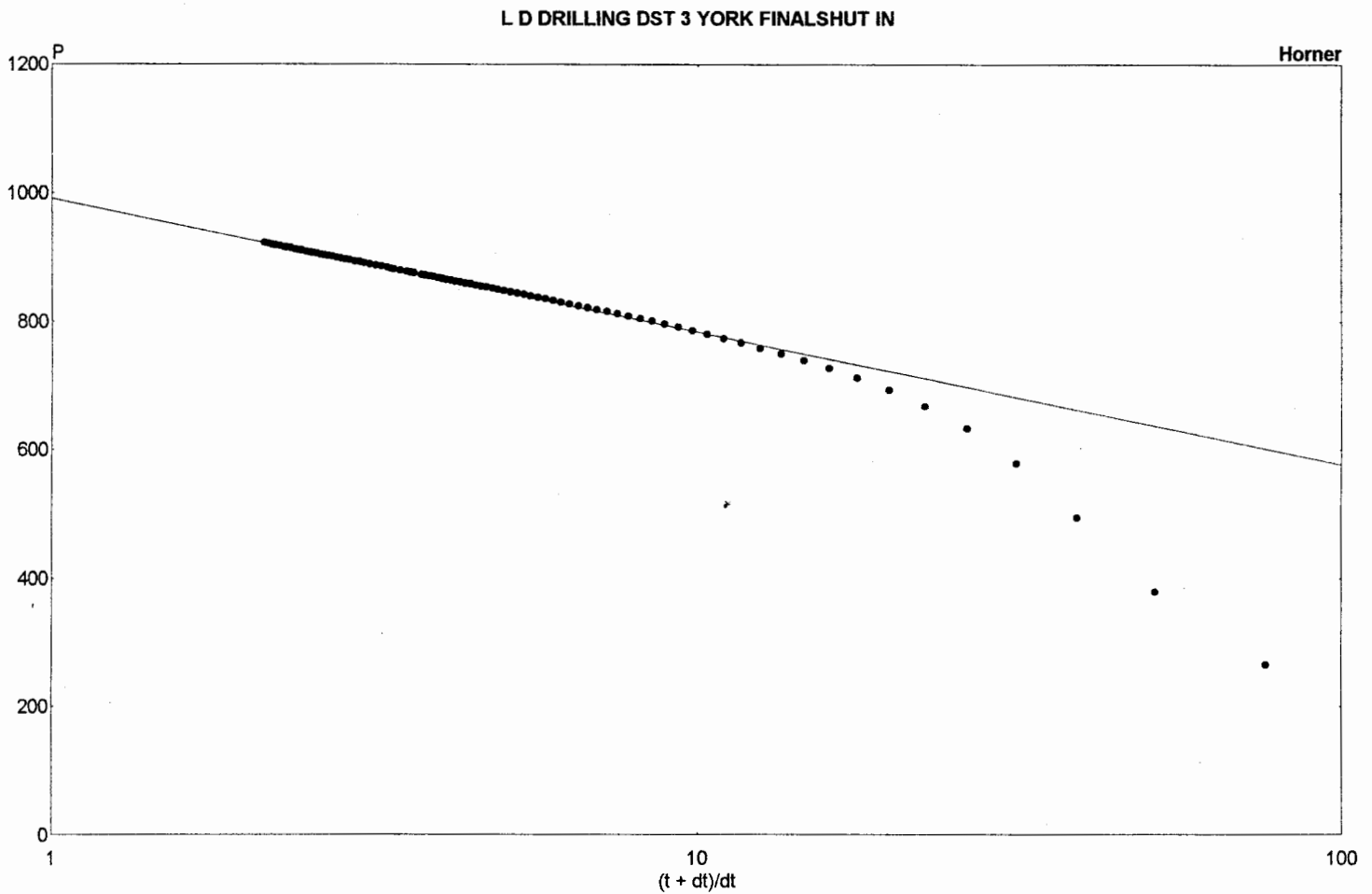
Calculated Values:

$kh = 55.6649 \text{ md-ft}$

$k = 13.9162 \text{ md}$

Skin = 5.15156

$P^* = 1008.1 \text{ psi}$



L D DRILLING DST 3 YORK FINALSHUT IN

Analysis Results: Horner

Parameters:

Slope = -207.728
 $m(1 \text{ hr}) = 918.967$
 Prd Time: = 1.25 hr

Calculated Values:

$kh = 67.6166 \text{ md-ft}$
 $k = 16.9041 \text{ md}$
 $Skin = 5.12474$
 $P^* = 992.13 \text{ psi}$

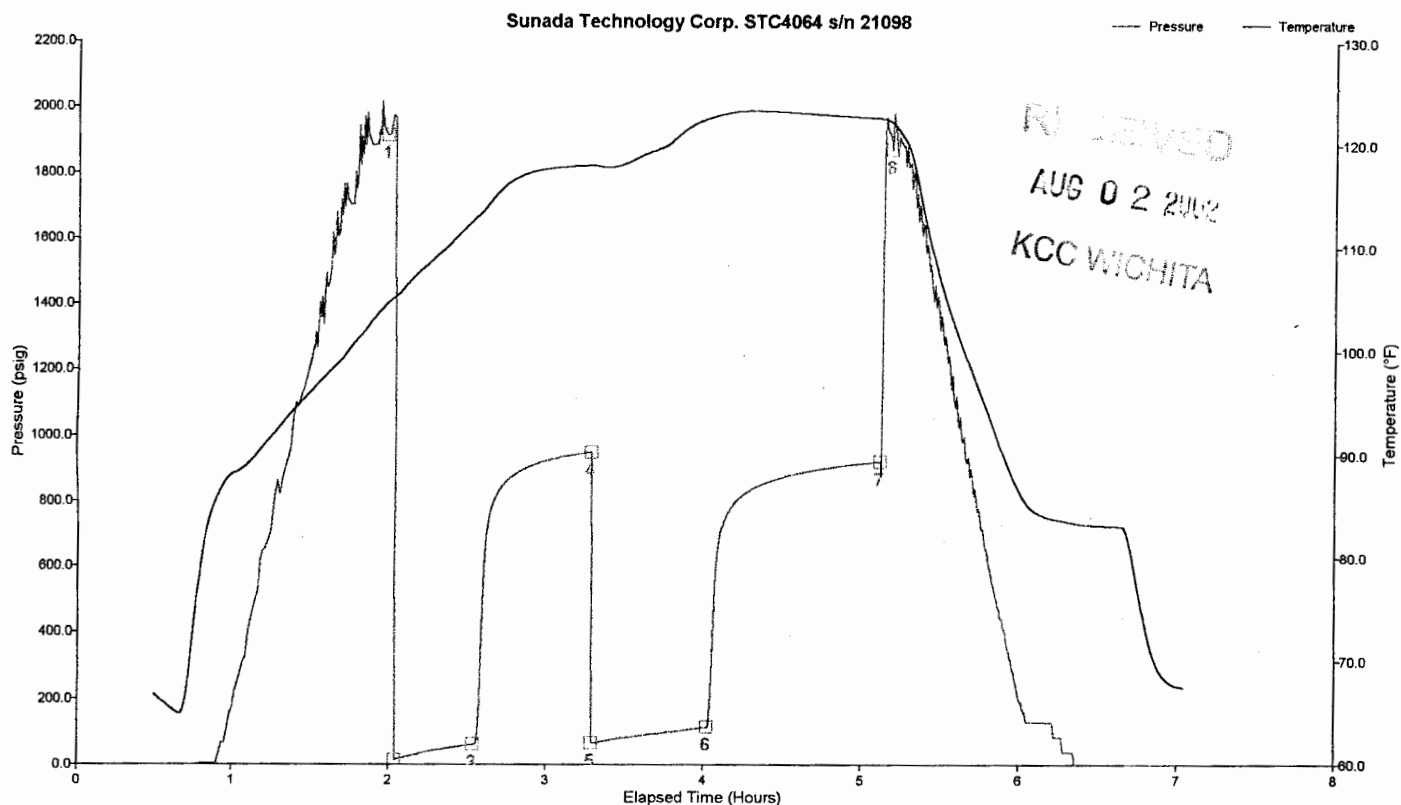
L D DRILLING YORK 1
0317 3

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	BARRELS TIME	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	108	75	33	0.0074	0.3615	30	10.845	1440	32.42489627
							0		

DST #3LKC J ZONE 3942-3975

Well LSD: DST 3 LKC J ZONE 3942-3975
 Well Name: YORK 1
 Company: L D DRILLING
 Battery on: Apr 12, 2002 at 20:55:00
 Notes: REC. 1100'GIP 220' CLEAN GASSY OIL 60'MUD+GAS CUT OIL

ORIGINAL

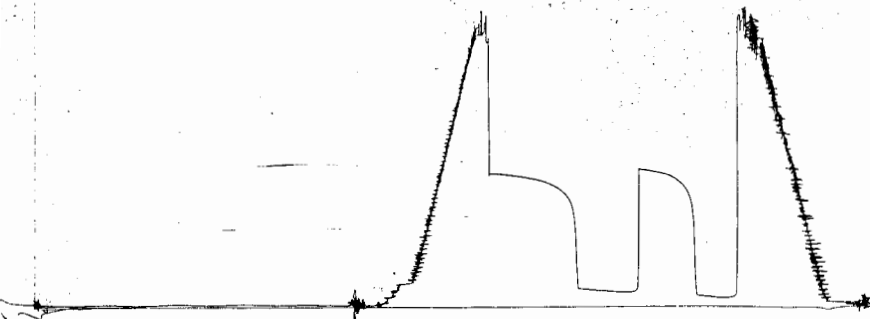


Tag	Pressure	Temperature	Comment
1	1912.92 psig	104.60 °F	2002-04-12 22:54:00
2	13.87 psig	105.32 °F	2002-04-12 22:57:30
3	60.63 psig	112.84 °F	2002-04-12 23:27:30
4	949.40 psig	117.99 °F	2002-04-13 00:12:00
5	64.39 psig	117.99 °F	2002-04-13 00:12:30
6	114.10 psig	122.63 °F	2002-04-13 00:56:30
7	923.01 psig	122.61 °F	2002-04-13 02:02:00
8	1872.06 psig	122.23 °F	2002-04-13 02:06:00

ROCP13556 OUTSIDE
LOC 3427

PST#3 L.D
70RK#1

CLOCK# 26705





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Company L. D. Drilling, Inc. Lease & Well No. York No. 1
Elevation 2625 KB Formation Lansing/Kansas City "K" Effective Pay -- Ft. Ticket No. J1237
Date 4/12/02 Sec. 2 Twp. 16S Range 30W County Lane State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,970 ft. to 3,995 ft. Total Depth 3,995 ft.

Packer Depth 3,965 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,970 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,973 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,992 ft. Recorder Number 13556 Cap. 5,475 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 60 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3,950 ft. I.D. 3 1/2 in.

Chlorides 2,200 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 25 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., steady blow throughout.

2nd Open: Weak, 1/2 in., blow decreasing to 1/4 in.

Recovered 30 ft. of muddy water = .307800 bbls. (Grind out: 50%-mud; 50%-water) Chlorides: 14,000 Ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 12:30 P.M. Time Started Off Bottom 3:30 P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 1999 P.S.I.

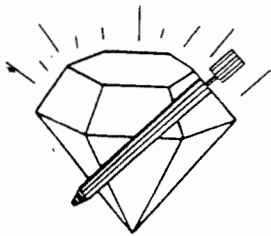
Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 17 P.S.I.

Initial Closed In Period Minutes 45 (D) 409 P.S.I.

Final Flow Period Minutes 45 (E) 19 P.S.I. to (F) 25 P.S.I.

Final Closed In Period Minutes 60 (G) 406 P.S.I.

Final Hydrostatic Pressure (H) 1905 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. York No. 1

Date 4/12/02 Sec. 2 Twp. 16 S Range 30 W

Formation Test No. 4 Interval Tested From 3,970 ft. to 3,995 ft. Total Depth 3,995 ft.

Formation Lansing/Kansas City "K"

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>60</u> CP	<u>40</u> CP
Weight	<u>9.3</u>	<u>9.2</u>
Water Loss	<u>8.8</u> CC	<u>20+</u> CC
PH Factor	<u>9.5</u>	<u>9.0</u>

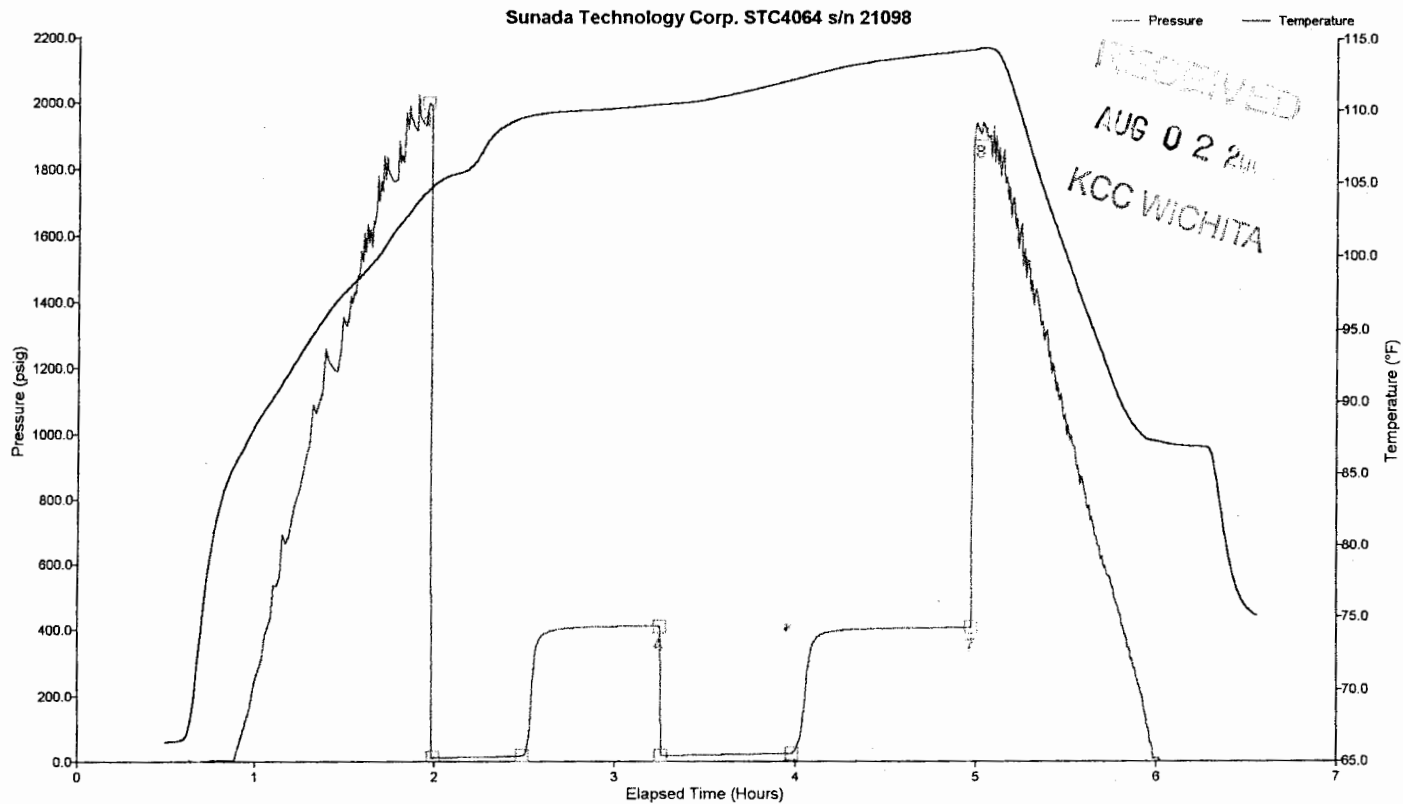
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.53</u> @ <u>--</u> °F.	<u>14,000</u> ppm
Recovery Mud	<u>1.50</u> @ <u>70</u> °F.	<u>4,000</u> ppm
Recovery Mud Filtrate	<u>.55</u> @ <u>70</u> °F.	<u>12,000</u> ppm
Mud Pit Sample	<u>3.00</u> @ <u>70</u> °F.	<u>2,000</u> ppm
Mud Pit Sample Filtrate	<u>3.00</u> @ <u>70</u> °F.	<u>2,000</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,200 Ppm.
Recovery filtrate triton dish chlorides were 13,000 Ppm.
Recovery water dish chlorides were 14,000 Ppm.

Well LSD: DST 4 LKC K ZONE 3970-3995
 Well Name: YORK 1
 Company: L D DRILLING INC
 Battery on: Apr 12, 2002 at 10:30:00
 Notes: REC. 30' MUDDY WATER 50% MUD 50% WATER

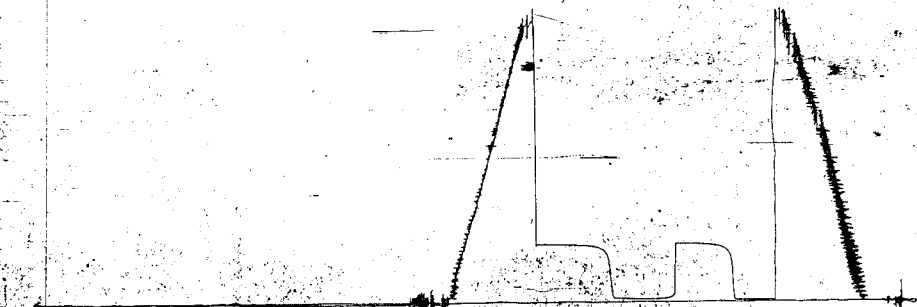


Tag	Pressure	Temperature	Comment
1	1998.90 psig	104.45 °F	2002-04-12 12:27:30
2	11.13 psig	104.84 °F	2002-04-12 12:29:30
3	17.01 psig	109.47 °F	2002-04-12 12:59:30
4	408.75 psig	110.37 °F	2002-04-12 13:45:00
5	18.54 psig	110.39 °F	2002-04-12 13:45:30
6	24.55 psig	112.12 °F	2002-04-12 14:29:00
7	406.47 psig	114.19 °F	2002-04-12 15:28:30
8	1904.96 psig	114.32 °F	2002-04-12 15:31:30

RGC#13556 OUTSIDE
LOC 3992

PSF#42.0
TURK#1

CLOCK#20705





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Company L. D. Drilling, Inc. Lease & Well No. York No. 1
Elevation 2625 KB Formation Marmaton/Altamont Effective Pay -- Ft. Ticket No. J1238
Date 4/13/02 Sec. 2 Twp. 16S Range 30W County Lane State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 4,060 ft. to 4,137 ft. Total Depth 4,137 ft.

Packer Depth 4,055 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,060 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,063 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,134 ft. Recorder Number 13556 Cap. 5,475 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 45 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 10.4 cc. Drill Pipe Length 4,040 ft. I.D. 3 1/2 in.

Chlorides 1,200 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 77 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 14 mins.

2nd Open: Strong blow. Off bottom of bucket in 7 mins. Weak, 1 in., blow back during shut-in. Dead in 10 mins.

Recovered 1,000 ft. of gas in pipe

Recovered 170 ft. of clean gassy oil = 1.744200 bbls. (Gravity: 37° @ 60°)

Recovered 60 ft. of mud & gas cut oil = .615600 bbls.

Recovered 230 ft. of TOTAL FLUID = 2.359800 bbls.

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 11:20 ~~XXXX~~ ^{A.M.} Time Started Off Bottom 2:20 ~~XXXX~~ ^{P.M.} Maximum Temperature 115°

Initial Hydrostatic Pressure (A) 2014 P.S.I.

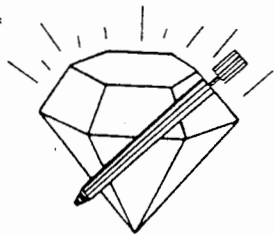
Initial Flow Period Minutes 30 (B) 33 P.S.I. to (C) 66 P.S.I.

Initial Closed In Period Minutes 45 (D) 622 P.S.I.

Final Flow Period Minutes 45 (E) 70 P.S.I. to (F) 116 P.S.I.

Final Closed In Period Minutes 60 (G) 597 P.S.I.

Final Hydrostatic Pressure (H) 1996 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. York No. 1

Date 4/13/02 Sec. 2 Twp. 16 S Range 30 W

Formation Test No. 5 Interval Tested From 4,060 ft. to 4,137 ft. Total Depth 4,137 ft.

Formation Marmaton/Altamont

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>45</u> CP	<u>--</u> CP	TOO OILY
Weight	<u>9.3</u>	<u>--</u>	TO CHECK
Water Loss	<u>10.4</u> CC	<u>--</u> CC	
PH Factor	<u>9.5</u>	<u>--</u>	

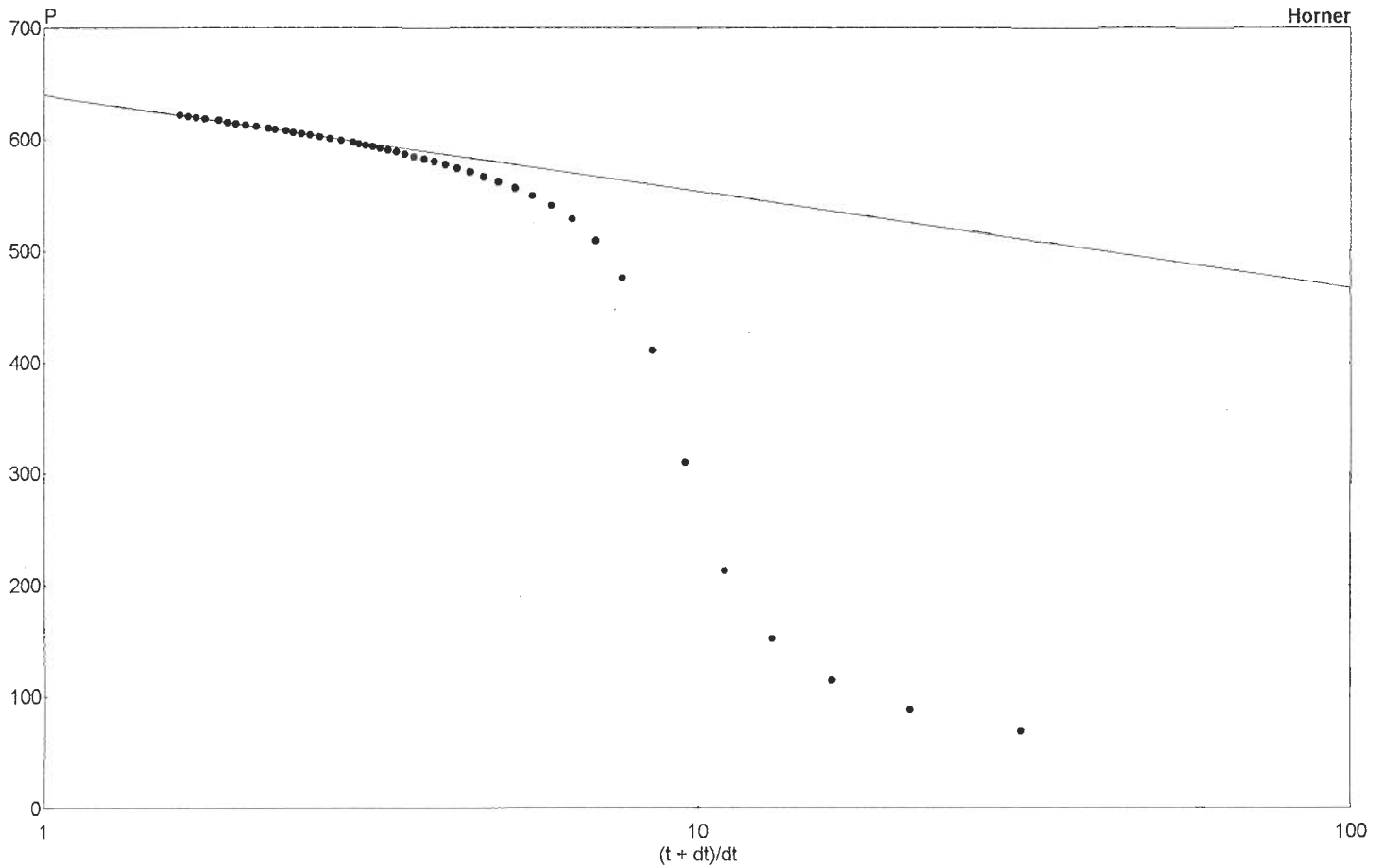
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample	<u>3.10</u> @ <u>70</u> °F. <u>2,000</u> ppm	
Mud Pit Sample Filtrate	<u>3.20</u> @ <u>70</u> °F. <u>1,800</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 1,200 Ppm.

L D DRILLING YORK 1 DST 5 INITIAL SHUT IN



L D DRILLING YORK 1 DST 5 INITIAL SHUT IN

Analysis Results: Horner

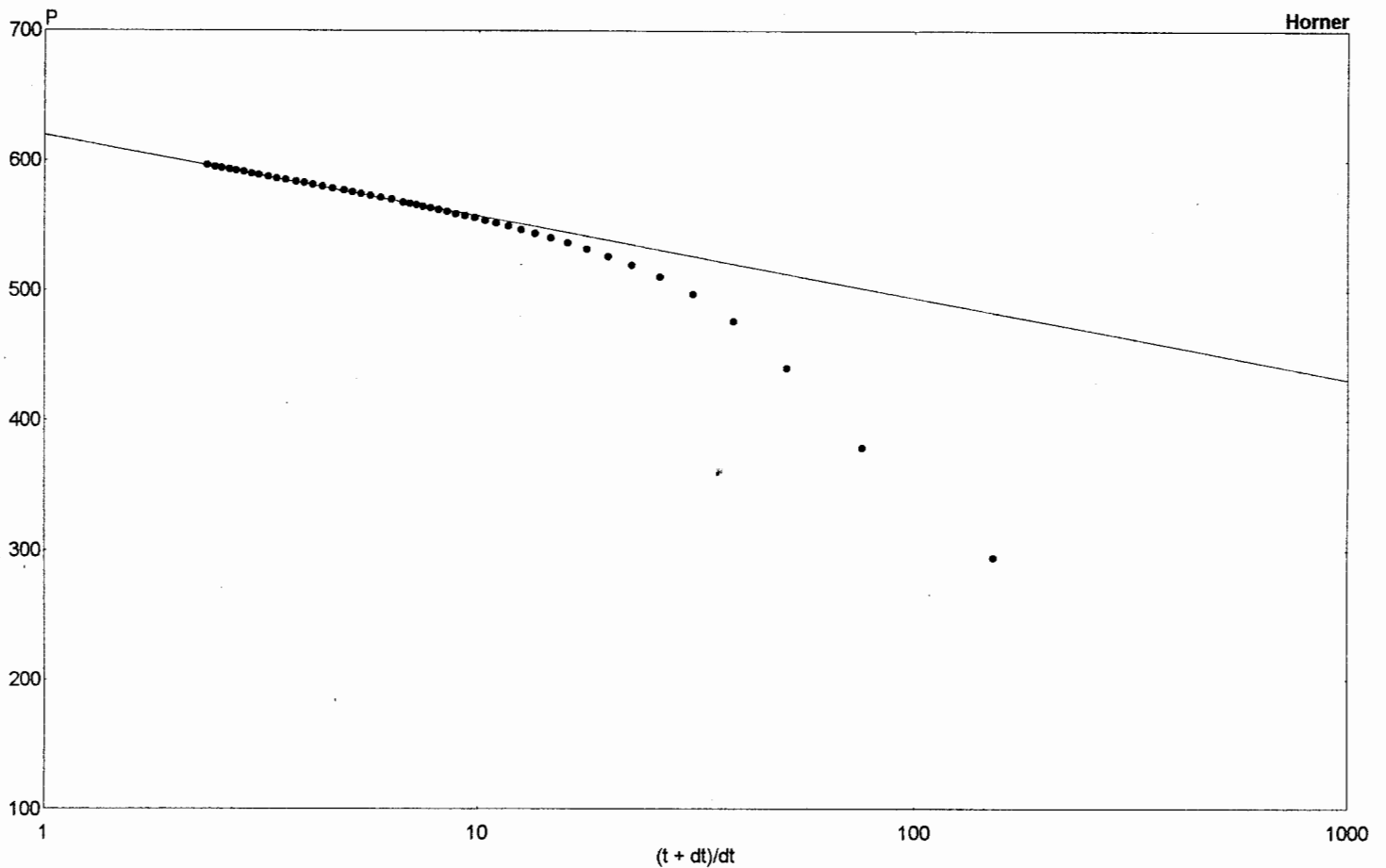
Parameters:

Slope = -86.4465
 $m(1 \text{ hr}) = 625.252$
 Prd Time: = 0.5 hr

Calculated Values:

$kh = 189.56 \text{ md-ft}$
 $k = 31.5933 \text{ md}$
 $Skin = 8.06608$
 $P^* = 640.47 \text{ psi}$

L D DRILLING YORK 1 DST 5 FINAL SHUT IN



L D DRILLING YORK 1 DST 5 FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -62.7669

$m(1 \text{ hr}) = 597.979$

Prd Time: = 1.25 hr

Calculated Values:

$kh = 261.074 \text{ md-ft}$

$k = 43.5123 \text{ md}$

Skin = 7.219

$P^* = 620.08 \text{ psi}$

LD DRILLING YORK 1

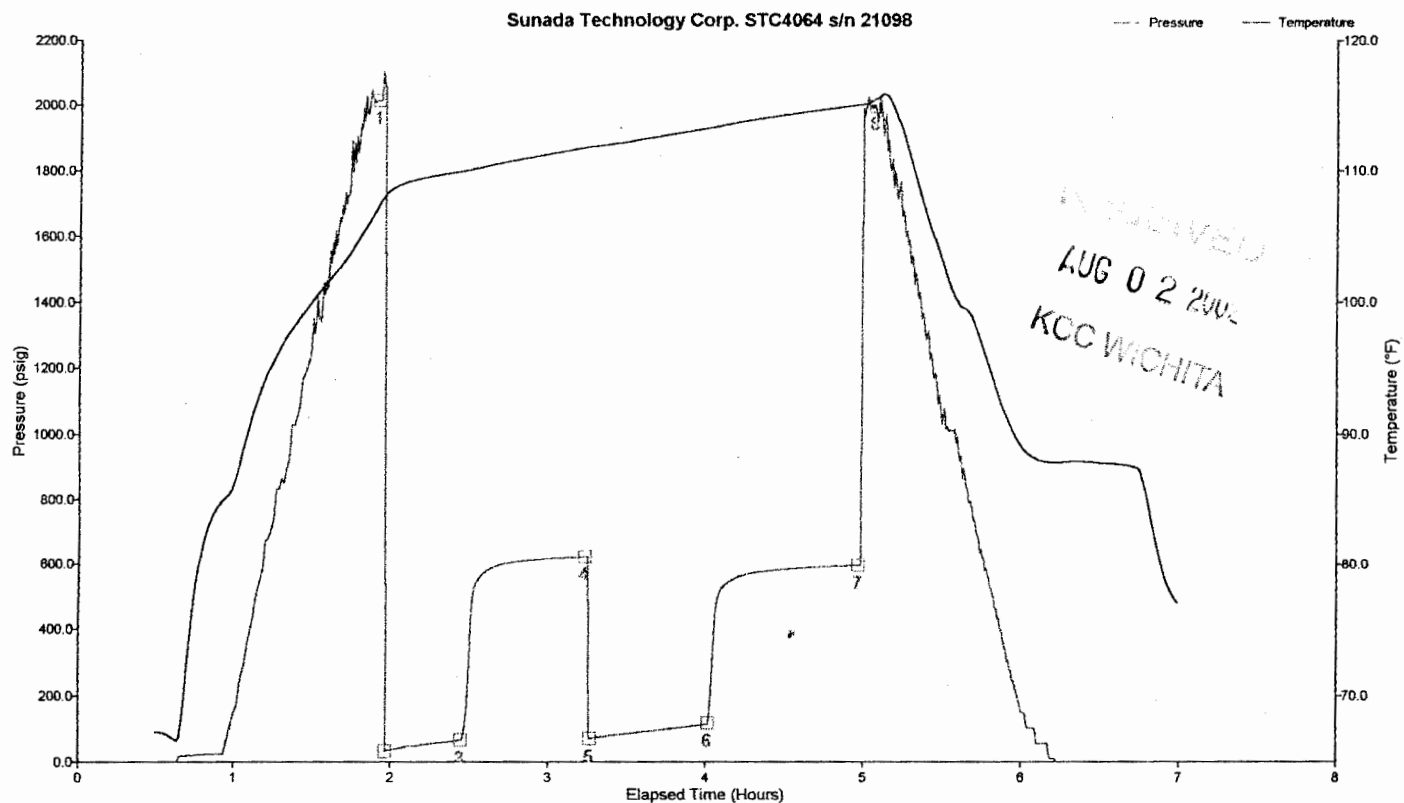
DST 5

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	BARRELS	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	104	75	75	29	0.0074	0.3638	30	10.914	28.31445849
								1440	28.31445849
								0	0

BARRELS	TOTAL TIME	DAILY PRODUCTION
0	10.914	28.31445849
0	1440	28.31445849
		0

DST #5 MARMATON ALTAMONT 4060-4137

Well LSD: DST 5 MARMATON ALTAMONT 4060-4137
 Well Name: YORK 1
 Company: L D DRILLING INC
 Battery on: Apr 13, 2002 at 09:20:00
 Notes: REC. 1000' GIP **170'** CLEAN GASSY OIL 60' MUD+GAS CUTOIL

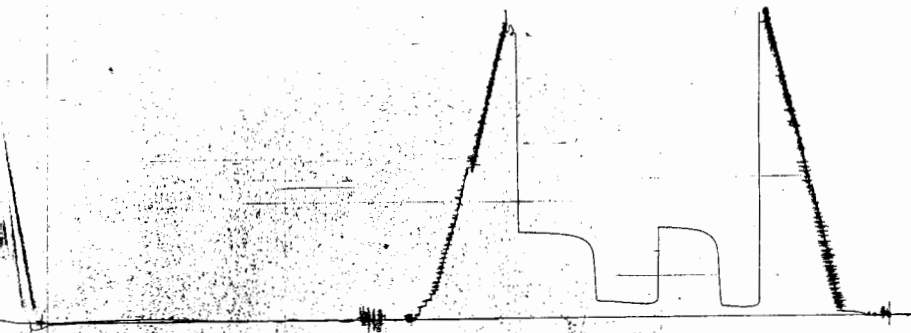


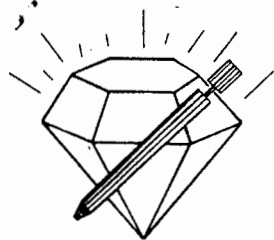
Tag	Pressure	Temperature	Comment
1	2013.67 psig	107.39 °F	2002-04-13 11:15:00
2	32.58 psig	108.24 °F	2002-04-13 11:18:00
3	65.88 psig	109.95 °F	2002-04-13 11:47:00
4	621.78 psig	111.78 °F	2002-04-13 12:34:00
5	69.96 psig	111.85 °F	2002-04-13 12:36:00
6	116.33 psig	113.27 °F	2002-04-13 13:21:00
7	597.11 psig	115.07 °F	2002-04-13 14:18:00
8	1995.81 psig	115.50 °F	2002-04-13 14:24:00

ROCK #13556 OUTLINE
LGC 4134

DST #56.0
YORK #1

CLOCK #26705





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

Elevation 2625 KB Formation Myrick Station Effective Pay -- Ft. Ticket No. J1239

Date 4/14/02 Sec. 2 Twp. 16S Range 30W County Lane State Kansas

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

Formation Test No. 6 Interval Tested from 4,182 ft. to 4,210 ft. Total Depth 4,210 ft.

Packer Depth 4,177 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,182 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,185 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,207 ft. Recorder Number 13556 Cap. 5,475 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 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.2 Water Loss 10.0 cc. Drill Pipe Length 4,162 ft. I.D. 3 1/2 in.

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

Jars: Make Bowen Serial Number Not Run Anchor Length 28 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 building to 8 ins. in 20 mins. & staying there to end.
2nd Open: Good blow slowly building to 6 ins. No blow back during shut-in.

Recovered 100 ft. of muddy water = 1.026000 bbls.

Recovered 850 ft. of gassy water = 8.721000 bbls. (Chlorides: 37,000 Ppm)

Recovered 950 ft. of TOTAL FLUID = 9.747000 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 3:17 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:17 ~~P.M.~~ ^{A.M.} Maximum Temperature 131°

Initial Hydrostatic Pressure (A) 2031 P.S.I.

Initial Flow Period Minutes 30 (B) 9 P.S.I. to (C) 222 P.S.I.

Initial Closed In Period Minutes 45 (D) 1070 P.S.I.

Final Flow Period Minutes 45 (E) 225 P.S.I. to (F) 454 P.S.I.

Final Closed In Period Minutes 60 (G) 1055 P.S.I.

Final Hydrostatic Pressure (H) 1985 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.
Lease & Well No. York No. 1
Date 4/14/02 Sec. 2 Twp. 16 S Range 30 W
Formation Test No. 6 Interval Tested From 4,182 ft. to 4,210 ft. Total Depth 4,210 ft.
Formation Myrick Station

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>46</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>9.5</u>	<u>--</u>

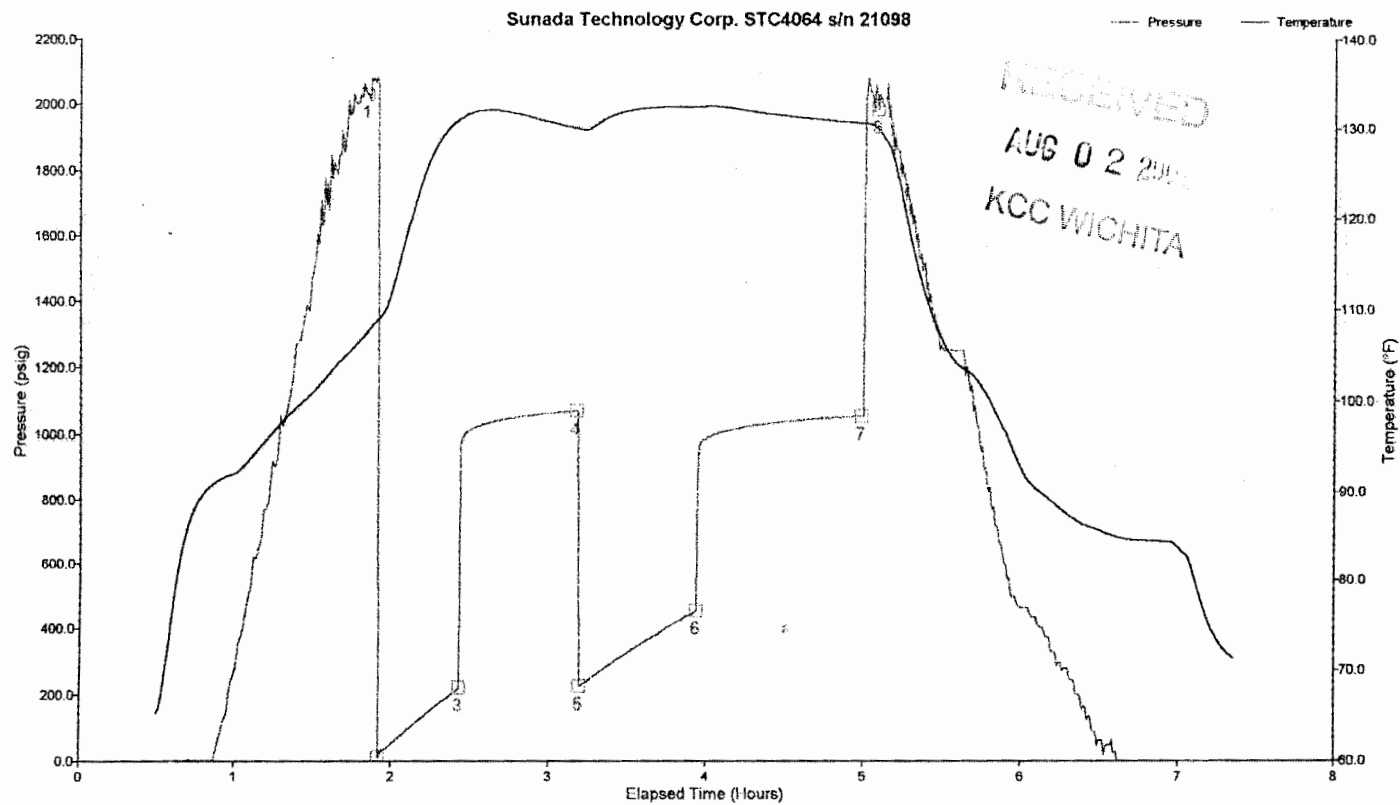
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.20</u> @ <u>60</u> °F.	<u>39,000</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Mud Pit Sample	<u>3.60</u> @ <u>70</u> °F.	<u>1,600</u> ppm
Mud Pit Sample Filtrate	<u>3.60</u> @ <u>70</u> °F.	<u>1,600</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 1,500 Ppm.
Recovery water dish chlorides were 37,000 Ppm.

Well LSD: DST 6 MYRICK STATION 4182-4210
Well Name: YORK 1
Company: L D DRILLING INC
Battery on: Apr 14, 2002 at 01:22:00
Notes: REC. 100' MUDDY WATER 850' GAS CUT WATER 37,000Ppm

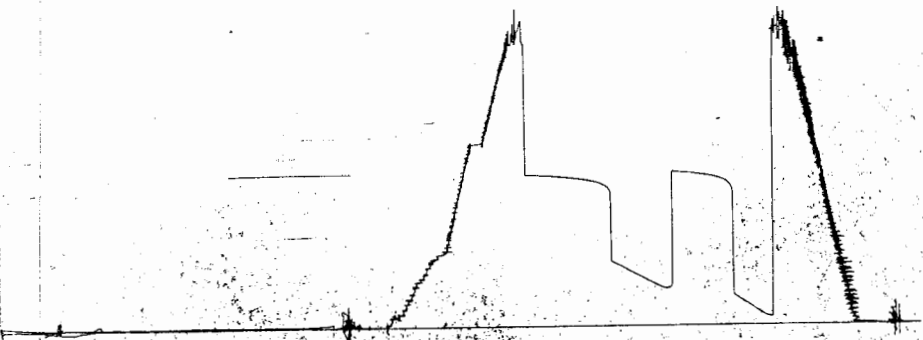


Tag	Pressure	Temperature	Comment
1	2030.68 psig	107.59 °F	2002-04-14 03:12:30
2	9.30 psig	109.12 °F	2002-04-14 03:17:00
3	221.84 psig	131.16 °F	2002-04-14 03:48:00
4	1070.20 psig	130.06 °F	2002-04-14 04:33:00
5	225.01 psig	130.00 °F	2002-04-14 04:34:00
6	453.88 psig	132.47 °F	2002-04-14 05:18:30
7	1054.99 psig	130.66 °F	2002-04-14 06:21:30
8	1985.44 psig	130.04 °F	2002-04-14 06:27:30

ROC#13556 DSP#6
COC4207 OUTSIDE

L. P
YORIC#1

CLOCK# 26705





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Company L. D. Drilling, Inc. Lease & Well No. York No. 1
Elevation 2625 KB Formation Ft. Scott/Cherokee/Johnson Effective Pay -- Ft. Ticket No. J1240
Date 4/14/02 Sec. 2 Twp. 16S Range 30W County Lane State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl
Formation Test No. 7 Interval Tested from 4,213 ft. to 4,303 ft. Total Depth 4,303 ft.
Packer Depth 4,208 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,213 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set -- ft.
Top Recorder Depth (Inside) 4,278 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,300 ft. Recorder Number 13556 Cap. 5,475 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 47 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 4,193 ft. I.D. 3 1/2 in.
Chlorides 1,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 90 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 slowly building to 2 ins.
2nd Open: Weak, 1/2 in., blow.

Recovered 45 ft. of slightly oil cut mud = .461700 bbls. (Grind out: 6%-oil; 3%-water; 91%-mud)

Recovered -- ft. of

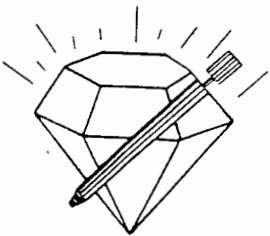
Recovered -- ft. of

Recovered -- ft. of

Recovered -- ft. of

Remarks

Time Set Packer(s) 9:00 ~~XXX~~ P.M. Time Started Off Bottom 11:30 ~~XXX~~ P.M. Maximum Temperature 121°
Initial Hydrostatic Pressure (A) 2128 P.S.I.
Initial Flow Period Minutes 30 (B) 44 P.S.I. to (C) 53 P.S.I.
Initial Closed In Period Minutes 45 (D) 949 P.S.I.
Final Flow Period Minutes 30 (E) 55 P.S.I. to (F) 63 P.S.I.
Final Closed In Period Minutes 45 (G) 818 P.S.I.
Final Hydrostatic Pressure (H) 2075 P.S.I.



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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.
Lease & Well No. York No. 1
Date 4/14/02 Sec. 2 Twp. 16 S Range 30 W
Formation Test No. 7 Interval Tested From 4,213 ft. to 4,303 ft. Total Depth 4,303 ft.
Formation Ft. Scott/Cherokee/Johnson

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>47</u> CP	<u>41</u> CP
Weight	<u>9.4</u>	<u>9.1</u>
Water Loss	<u>8.0</u> CC	<u>10.0</u> CC
PH Factor	<u>9.5</u>	<u>9.5</u>

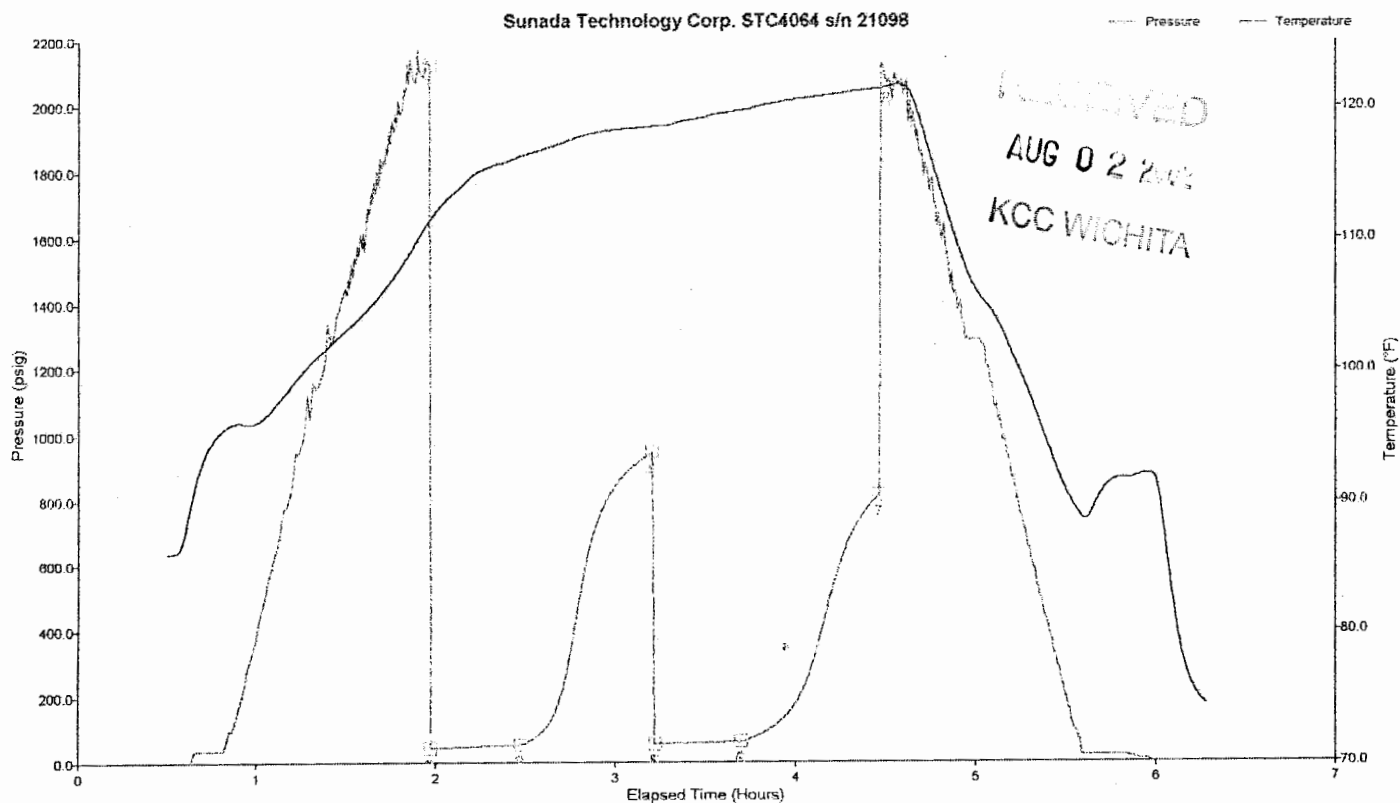
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.48</u> @ <u>70</u> °F.	<u>1,600</u> ppm
Recovery Mud Filtrate	<u>.48</u> @ <u>70</u> °F.	<u>1,600</u> ppm
Mud Pit Sample	<u>.50</u> @ <u>70</u> °F.	<u>1,200</u> ppm
Mud Pit Sample Filtrate	<u>.50</u> @ <u>70</u> °F.	<u>1,200</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 1,000 Ppm.
Recovery filtrate triton dish chlorides were 1,200 Ppm.

Well LSD: DST 7 FORT SCOTT 'CHER' JOHNSON ZONES 4213-4303
 Well Name: YORK 1
 Company: L D DRILLING INC
 Battery on: Apr 14, 2002 at 19:02:00
 Notes: REC. 45' SLIGHTLY OIL CUT MUD



Tag	Pressure	Temperature	Comment
1	2127.92 psig	111.38 °F	2002-04-14 21:00:00
2	44.26 psig	111.54 °F	2002-04-14 21:00:30
3	53.38 psig	116.24 °F	2002-04-14 21:30:30
4	948.80 psig	118.47 °F	2002-04-14 22:14:30
5	55.06 psig	118.48 °F	2002-04-14 22:15:30
6	62.71 psig	119.73 °F	2002-04-14 22:44:00
7	817.74 psig	121.39 °F	2002-04-14 23:30:00
8	2074.58 psig	121.54 °F	2002-04-14 23:32:30

ROCK 13536 TLOS
OUTSIDE 493

DSF #1 & D
YORK #1

12H11 CLOCIT 2630x

