

CONFIDENTIAL

ARROW TESTING COMPANY
P. O. BOX 1051 GREAT BEND, KANSAS 67530

ORIGINAL RECEIVED

SEP 11 2002

KCC WICHITA

Release DRILL-STEM TEST DATA

Well Name Schoen	SEP 10 2003	Test No. 1
Well Number 1	From KCC	Zone Tested KS
Company A & A Production	Confidential SEP 09 2002	Date 8/11/02
Comp. Rep. J. Green	CONFIDENTIAL	Tester Don Fabricius
Contractor A & A Drlg		Ticket No. 4061
Location 14-6-25		Elevation

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 3746 Depth 3750
 Initial Hydro Mud Press. 1819 Initial Hydro Mud Press. 1821
 Initial Shut-in Press. 1197 Initial Shut-in Press. 1203
 Initial Flow Press. 11-11 Initial Flow Press. 11-11
 Final Flow Press. 11-11 Final Flow Press. 11-11
 Final Shut-in Press. Final Shut-in Press.
 Final Hydro Mud Press. 1819 Final Hydro Mud Press. 1821
 Temperature Tool Open Before I. S. I. 30 Mins.
 Mud Weight 9.3 Viscosity 42 Initial Shut-in 30 Mins.
 Fluid Loss 9.5 Flow Period 15 Mins.
 Interval Tested 3730-54 Final Shut-in Mins.
 Top Packer Depth 3725 Surface Choke Size 1
 Bottom Packer Depth 3750 Bottom Choke Size 3/4
 Total Depth 3754 Main Hole Size 7 7/8
 Drill Pipe Size 1/2 X H Wt. 16.60 Rubber Size 6 3/4
 Drill Collar I. D. Ft. Run
 Recovery—Total Feet
 Recovered 60 Feet Of Mud
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of

Remarks

Very weak blow dead in 29 min
flush tool on second open-surge

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

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ARROW TESTING COMPANY
P. O. BOX 1051 GREAT BEND, KANSAS 67530

ORIGINAL

DRILL-STEM TEST DATA

RECEIVED
SEP 11 2002
KCC-WICHITA

Well Name Schoen	Test No. 2
Well Number 1	Zone Tested KS
Company A & A Production	Date 8/12/02
Comp. Rep. J. Green	Tester Don Fabricius
Contractor A & A Drlg	Ticket No. 4062
Location 14-6-25	Elevation

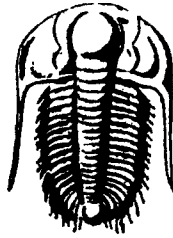
Release
SEP 10 2003
From KCC
Confidential
SEP 09 2002
CONFIDENTIAL

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 3862 Depth 3866
 Initial Hydro Mud Press. 1958 Initial Hydro Mud Press. 1958
 Initial Shut-in Press. 1335 Initial Shut-in Press. 1337
 Initial Flow Press. 47-47 Initial Flow Press. 47-47
 Final Flow Press. 58-58 Final Flow Press. 58-58
 Final Shut-in Press. Final Shut-in Press.
 Final Hydro Mud Press. 1958 Final Hydro Mud Press. 1958
 Temperature Tool Open Before I. S. I. 30 Mins.
 Mud Weight 9.4 Viscosity 9.4 Initial Shut-in 30 Mins.
 Fluid Loss 7.2 Flow Period 15 Mins.
 Interval Tested 3810-70 Final Shut-in Mins.
 Top Packer Depth 3805 Surface Choke Size 1
 Bottom Packer Depth 3810 Bottom Choke Size 3/4
 Total Depth 3810 Main Hole Size 7 7/8
 Drill Pipe Size 1/2 X H Wt. 16.60 Rubber Size 6 3/4
 Drill Collar I. D. Ft. Run
 Recovery—Total Feet
 Recovered 30 Feet Of Mud
 Recovered Feet Of
 Recovered Feet Of
 Recovered Feet Of

Remarks
Very weak blow dead in 11 min flush tool
on second open - surge

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared for

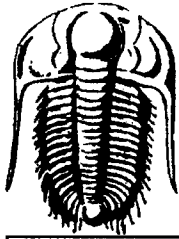
A & A Production
PO Box 100
Hill City, KS 67642

Schoen #1
14-6-25
Graham County Kansas

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net

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ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

A & A Production

Box 100

City, KS 67642

Release
SEP 10 2003
From
Confidential

RECEIVED
SEP 11 2002
KCC WICHITA

Well name#:	Schoen #1	Date:	8/14/2002
Location#:	14-6-25 / Graham Co. Kansas	Ticket #:	26491
		DST#	3

General Informaion:

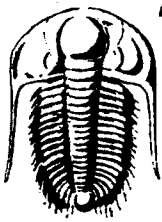
Formation:	Toronto	Test Type:	Hookwall	BHT:	107
Interval:	3662-3716	Tester:	John Schmidt	OIL API:	
Total Depth:	4226	Elevation:	2558 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		2553 ft(CF)		
Start Data:	8/14/2002	Tool Weight:	3500	Mud Type:	
Start Time:	12:00:00	Weight Set on Packers:	25000	Mud Weight:	9.6
Time tool opened:	14:00:00	Weight to Pull Loose:	50000	Viscosity:	52
Time Off Btm:	18:30:00	Initial String Weight:	42000	Water Loss:	7.2
End Date:	8/14/02	Final String Weight:		Resistivity:	
End Time:	20:30	Drill Pipe Length:	3666	Salinity:	
		Drill Collar Length:			

KCC
SEP 09 2002
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Test Comment: IF Weak 1" blow ISI No blow FF Weak 1" blow FSI No blow	
Recovery Length(ft):	250' Muddy water

Gas Volume Report

Recorder #:	11084	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1929					
Open to Flow (1):	55					
Shut-in (1):	110					
End Shut-in (1):	1142					
Open to Flow (2):	110					
Shut-in (2):	154					
End Shut-in (2):	1120					
Final Hydro-static:	1875					



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INVOICE # 5093
#1530.00

No 16491

Test Ticket

Well Name & No. SCHOEN #1 Test No. #3 Date 8-14-02
 Company A+A PRODUCTION Zone Tested TORONTO
 Address P.O. BOX 100 HILL CITY, KS. 67642 Elevation 2558 KB 2553 GL
 Co. Rep / Geo. JERRY GREEN Cont. A+A Est. Ft. of Pay Por. %
 Location: Sec. 14 Twp. 6 Rge. 25 Co. GRAHAM State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3662 To 3716 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000
 Anchor Length 54' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 3657 Tool Weight 3500
 Bottom Packer Depth 3662 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 4226 Wt. Pipe Run 404 Drill Collar Run 0
 Mud Wt. 9.6 LCM TR Vis. 52 WL 7.2 Drill Pipe Size 4 1/2 F.H. Ft. Run 3666
 Blow Description I.F. - WEAK 1" BLOW ISI - NO BLOW
F.F. - WEAK 1" BLOW F.S.I. - NO BLOW

Recovery — Total Feet	GIP	Ft. in DC	WT. PIPE			
Rec. <u>250'</u>	Feet Of <u>MUDDY WATER</u>	%gas	%oil	%water	%mud	Ft. in DP <u>250</u>
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud	

BHT 107 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1929</u>	}	<u>11084</u>	<u>11:00</u>
(B) First Initial Flow Pressure	<u>55</u>		PSI (depth) <u>3666</u>	T-Started <u>12:00</u>
(C) First Final Flow Pressure	<u>110</u>		PSI Recorder No. <u>13308</u>	T-Open <u>14:00</u>
(D) Initial Shut-In Pressure	<u>1142</u>		PSI (depth) <u>3710</u>	T-Pulled <u>18:30</u>
(E) Second Initial Flow Pressure	<u>110</u>		PSI Recorder No. <u>24174</u>	T-Out <u>20:30</u>
(F) Second Final Flow Pressure	<u>154</u>		PSI (depth) <u>3810</u>	T-Off Location <u>21:30</u>
(G) Final Shut-in Pressure	<u>1120</u>		PSI Initial Opening <u>90</u>	Test <u>HOOKWALL</u>
(Q) Final Hydrostatic Mud	<u>1875</u>		PSI Initial Shut-in <u>45</u>	Jars <u> </u>
		Final Flow <u>90</u>	Safety Joint <u> </u>	
		Final Shut-in <u>45</u>	Straddle <u>✓</u> <u>250</u>	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative John A. Schmidt

Mileage 85
 Other 1.5 hrs @ 30
 TOTAL PRICE \$ 1530

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

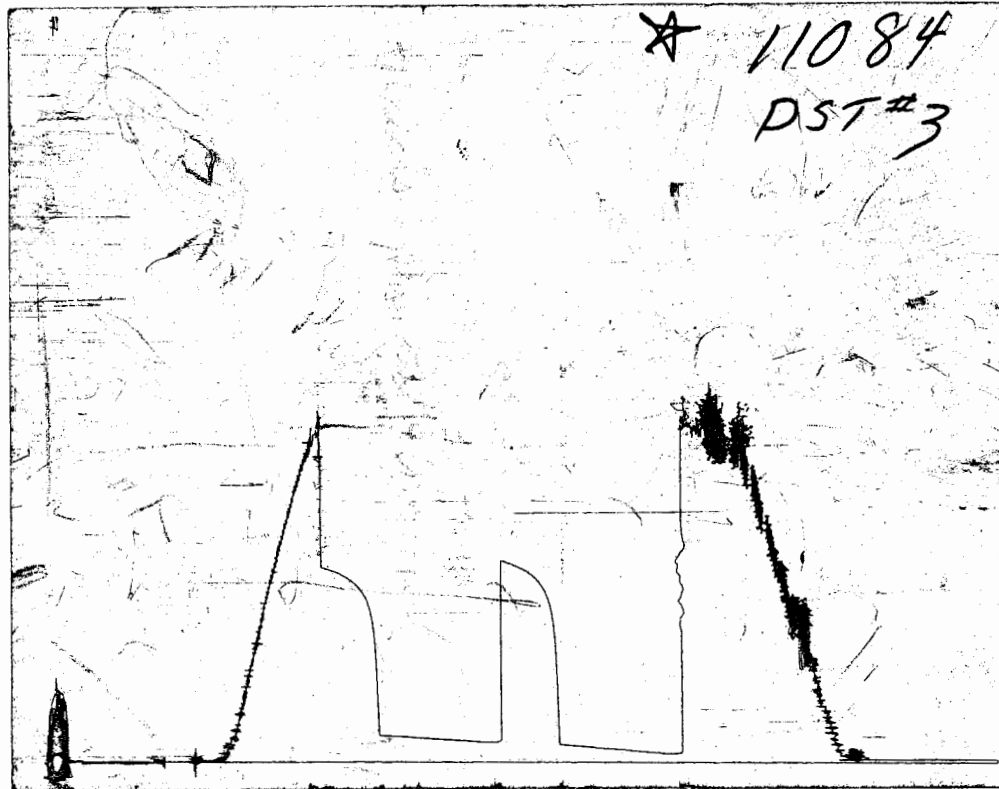


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

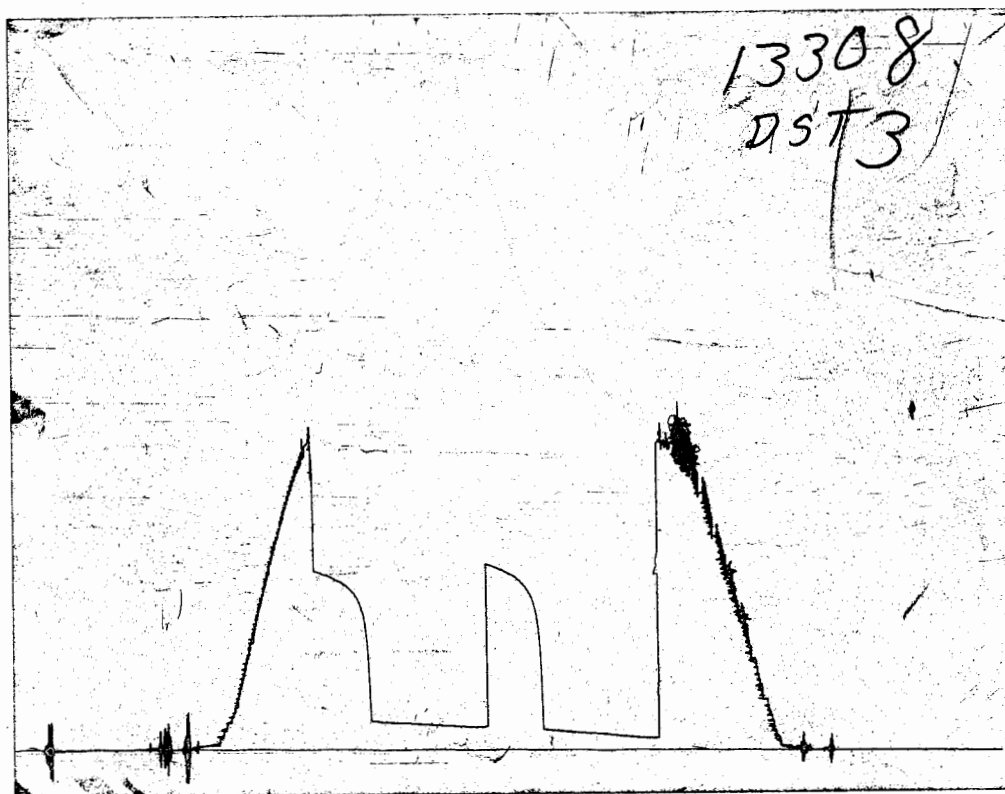


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

