

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared for

John J. Darrah, Jr.  
226 N Market Ste300  
Wichita KS 67202

Hamburg #9  
11 13s 21w  
Trego co Ks

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Well name#:	Hamburg #9	Date:	7/3/2002
Location#:	11 13s 21w	Ticket #:	15734
		DST#	1

### General Informaion:

Formation:	Lansing	Test Type:	Conventional	BHT:	86
Interval:	3459-3520	Tester:	Darren Amerine	OIL API:	
Total Depth:	3520	Elevation:	2145 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		2140 ft(CF)		

Start Data:	7/3/2002	Tool Weight:	2100	Mud Type:	Chemical
Start Time:	7:45:00	Weight Set on Packers:	20000	Mud Weight:	9.3
Time tool opened:	9:20:00	Weight to Pull Loose:	60000	Viscosity:	47
Time Off Btm:	10:20:00	Initial String Weight:	48000	Water Loss:	10
End Date:	7/3/02	Final String Weight:	48000	Resistivity;	
End Time:	11:30	Drill Pipe Length:		Salinity:	4000
		Drill Collar Length:	248.35		

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### Test Comment:

IF: Weak blow built to 1/2" died off to 1/4" in H2O bucket  
 FF: No blow  
 FSI: No blow back

Recovery Length(ft):	60ft	60ft in DC
	Description:	
60	Drilling Mud	100%Mud

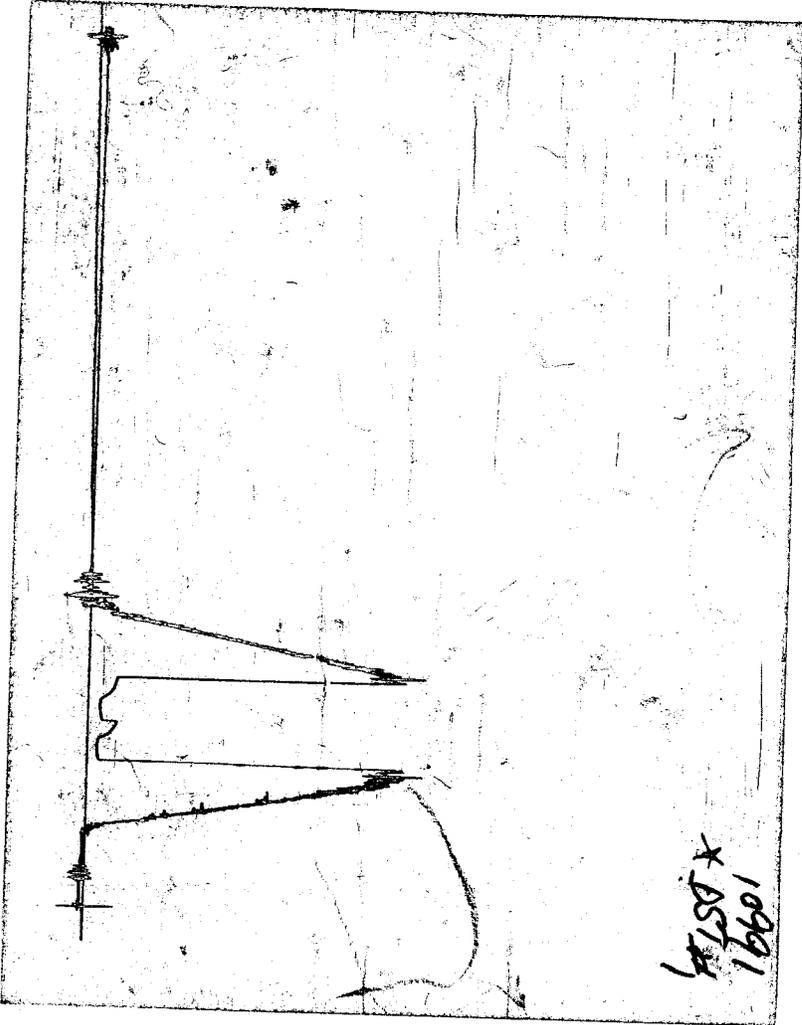
### Gas Volume Report

Recorder #:	10991	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1740					
Open to Flow (1):	84	15				
Shut-in (1):	84					
End Shut-in (1):	190	15				
Open to Flow (2):	100	15				
Shut-in (2):	93					
End Shut-in (2):	180	15				
Final Hydro-static:	1789					

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**CHART PAGE**

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**TRILOBITE**  
**TESTING, INC.**

DRILL STEM TEST REPORT

Prepared for

John J. Darrah, Jr.  
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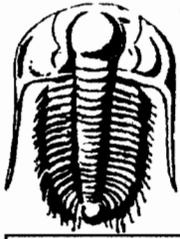
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11 13s 21w  
Trego co Ks

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e-mail: [trilobite@eaglecom.net](mailto:trilobite@eaglecom.net)



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Well name#:	Hamburg #9	Date:	7/3/2002
Location#:	11 13s 21w	Ticket #:	16416
		DST#	2

### General Informaion:

Formation:	L-KC 70'	Test Type:	Conventional	BHT:	118
Interval:	3517-3532	Tester:	John Schmidt	OIL API:	
Total Depth:	3532	Elevation:	2145 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		2140 ft(CF)		
Start Date:	7/3/2002	Tool Weight:	2000	Mud Type:	Chemical
Start Time:	16:45:00	Weight Set on Packers:	20000	Mud Weight:	9.3
Time tool opened:	18:04:00	Weight to Pull Loose:	58000	Viscosity:	47
Time Off Btm:	20:04:00	Initial String Weight:	50000	Water Loss:	10
End Date:	7/3/02	Final String Weight:	57000	Resistivity:	-
End Time:	22:00	Drill Pipe Length:	3278	Salinity:	
		Drill Collar Length:	248		

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### Test Comment:

IF: Strong b.o.b. 1 min.  
 ISI: No blow  
 FF: Strong b.o.b. 4 min.  
 FSI: No blow  
 Hole taking fluid throughout test. Appears to be @ misrun packer failure or fracture

Recovery Length(ft):	1543ft	Description:	
	1543	Drilling Mud	100%Mud

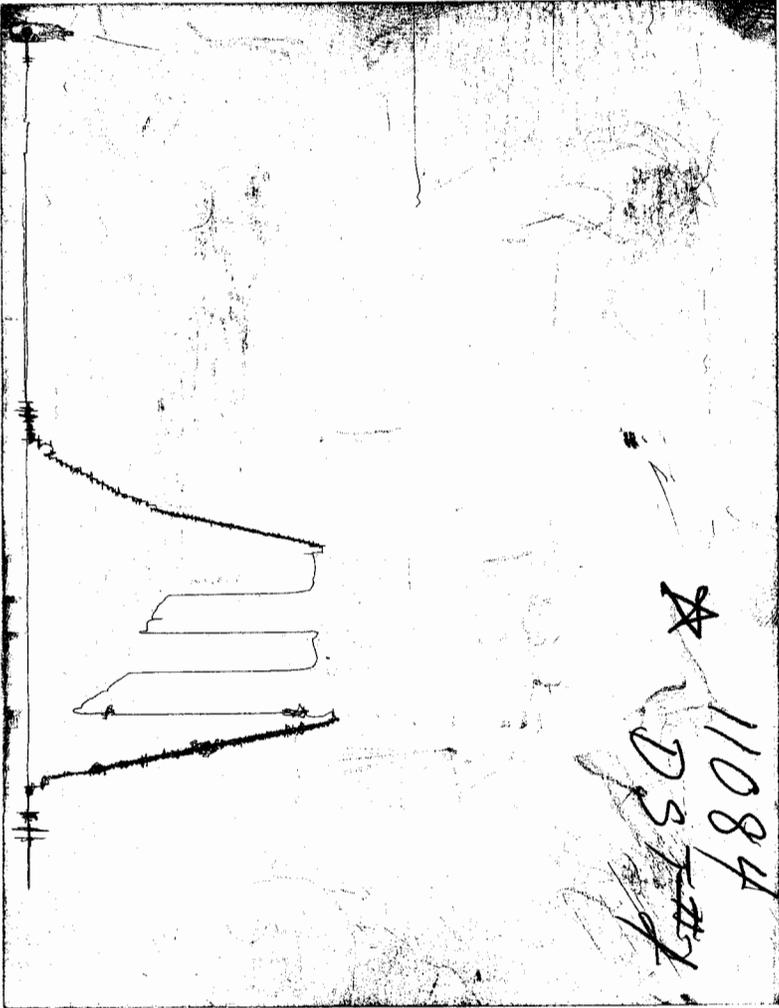
### Gas Volume Report

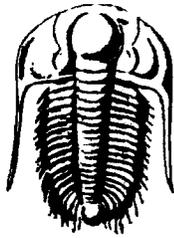
Recorder #:	11084	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1664					
Open to Flow (1):	253	30				
Shut-in (1):	452					
End Shut-in (1):	1621	30				
Open to Flow (2):	635	30				
Shut-in (2):	707					
End Shut-in (2):	1617	30				
Final Hydro-static:	1670					

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**CHART PAGE**

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**TRILOBITE**  
**TESTING, INC.**

DRILL STEM TEST REPORT

Prepared for

John J. Darrah, Jr.  
226 N Market Ste300  
Wichita KS 67202

Hamburg #9  
11 13s 21w  
Trego co Ks

AUG 26 2002

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# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Well name#:	Hamburg #9	Date:	7/4/2002
Location#:	11 13s 21w	Ticket #:	16417
		DST#	3

### General Informaion:

Formation:	L-KC	Test Type:	Conventional	BHT:	118
Interval:	3459-3544	Tester:	John Schmidt	OIL API:	
Total Depth:	3544	Elevation:	2145 ft(KB)	H2O Salinity:	47000
Hole Diameter:	7 7/8"		2140 ft(CF)		

Start Data:	7/4/2002	Tool Weight:	3000	Mud Type:	Chemical
Start Time:	3:15:00	Weight Set on Packers:	20000	Mud Weight:	9.3
Time tool opened:	4:30:00	Weight to Pull Loose:	55000	Viscosity:	47
Time Off Btm:	5:25:00	Initial String Weight:	46000	Water Loss:	10
End Date:	7/4/02	Final String Weight:	50000	Resistivity:	.17@70F
End Time:	7:00	Drill Pipe Length:	3215	Salinity:	
		Drill Collar Length:	248		

110 2, 6 2002  
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Test Comment:	
IF: Strong b.o.b. 45 sec.	
ISI: No blow	
FF: b.o.b. 1 min.	
FSI: No blow	
Recovery Length(ft):	1126ft
1026	Description: Drilling Mud 100%Mud
100	W-C Mud 40%Water 60%Mud

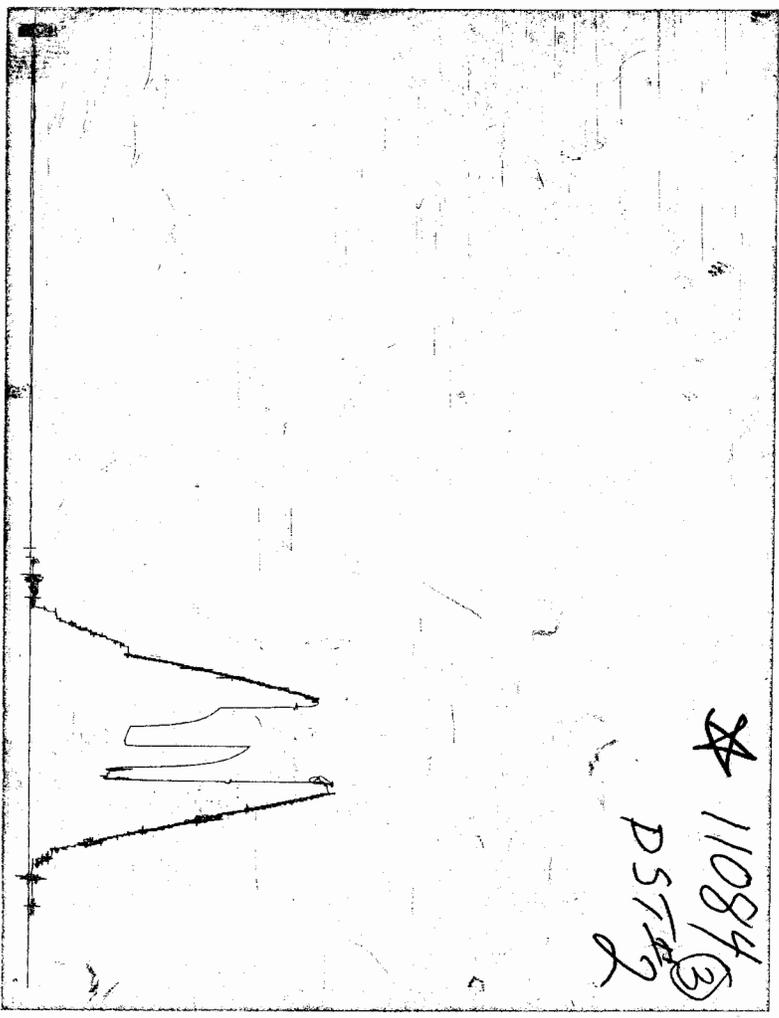
### Gas Volume Report

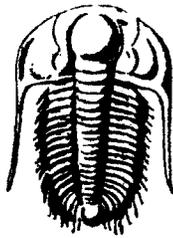
Recorder #:	11084	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1656					
Open to Flow (1):	420	10				
Shut-in (1):	442					
End Shut-in (1):	1240	15				
Open to Flow (2):	536	15				
Shut-in (2):	561					
End Shut-in (2):	1071	15				
Final Hydro-static:	1588					

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# CHART PAGE

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DRILL STEM TEST REPORT

Prepared for

John J. Darrah, Jr.  
226 N Market Ste300  
Wichita KS 67202

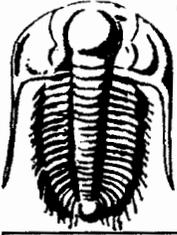
Hamburg #9  
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100 2,6 200

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# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Well name#:	Hamburg #9	Date:	7/4/2002
Location#:	11 13s 21w	Ticket #:	16418
		DST#:	4

### General Informaion:

Formation:	L-KC	Test Type:	Conventional	BHT:	118
Interval:	3572-3695	Tester:	John Schmidt	OIL API:	
Total Depth:	3695	Elevation:	2145 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		2140 ft(CF)		
Start Data:	7/4/2002	Tool Weight:	3300	Mud Type:	Chemical
Start Time:	19:15:00	Weight Set on Packers:	20000	Mud Weight:	9.2
Time tool opened:	20:40:00	Weight to Pull Loose:	57000	Viscosity:	55
Time Off Btm:	22:25:00	Initial String Weight:	50000	Water Loss:	11
End Date:	7/4/02	Final String Weight:	50000	Resistivity:	
End Time:	23:45	Drill Pipe Length:	3306	Salinity:	
		Drill Collar Length:	248		

7/6 2002  
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Test Comment:	
IF: Weak built to 1" Dead in 25 min.	
ISI: No blow	
FF: Dead	
FSI: No blow	
Recovery Length(ft):	125ft
65	Description: Drilling Mud 100%Mud
60	Mud w/ slight oil stain

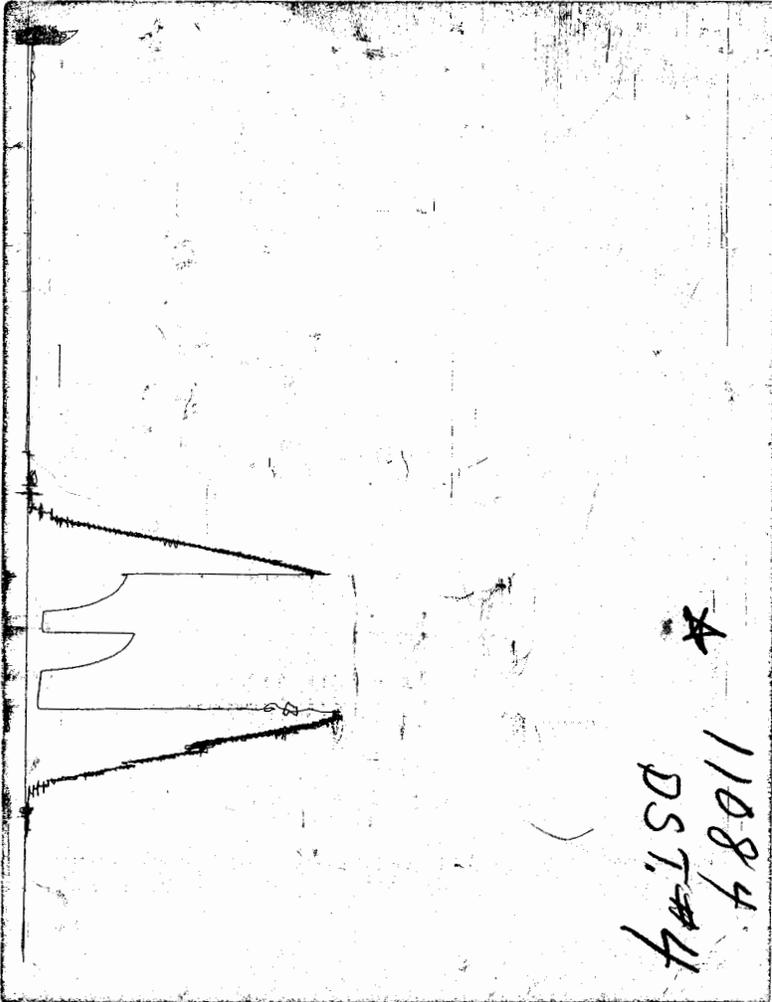
### Gas Volume Report

Recorder #:	11084	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1717					
Open to Flow (1):	61	30				
Shut-in (1):	78					
End Shut-in (1):	607	30				
Open to Flow (2):	91	15				
Shut-in (2):	91					
End Shut-in (2):	568	30				
Final Hydro-static:	1713					

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### CHART PAGE

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**TRILOBITE**  
**TESTING, INC.**

DRILL STEM TEST REPORT

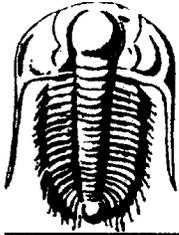
Prepared for

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Wichita KS 67202

Hamburg #9  
11 13s 21w  
Trego co Ks

AUG 26 1998  
KCC WICHITA

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# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Well name#:	Hamburg #9	Date:	7/5/2002
Location#:	11 13s 21w	Ticket #:	16419
		DST#	5

General Informaion:

Formation:	Marmaton	Test Type:	Conventional	BHT:	118
Interval:	3684-3800	Tester:	John Schmidt	OIL API:	
Total Depth:	3800	Elevation:	2145 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		2140 ft(CF)		
Start Data:	7/5/2002	Tool Weight:	3200	Mud Type:	Chemical
Start Time:	16:15:00	Weight Set on Packers:	20000	Mud Weight:	9
Time tool opened:	17:50:00	Weight to Pull Loose:	65000	Viscosity:	48
Time Off Btm:	20:20:00	Initial String Weight:	51000	Water Loss:	9.8
End Date:	7/5/02	Final String Weight:	51000	Resistivity:	
End Time:	22:00	Drill Pipe Length:	3434	Salinity:	
		Drill Collar Length:	248		

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Test Comment:	
IF: Weak built to 1 1/2"	
ISI: No blow	
FF: 6 min. to come back weak surf. Blow throughout 2nd open	
FSI: No blow	
Recovery Length(ft):	218ft
98	Description:
120	Drilling Mud 100%Mud
	SOCM 5%Oil 95%Mud

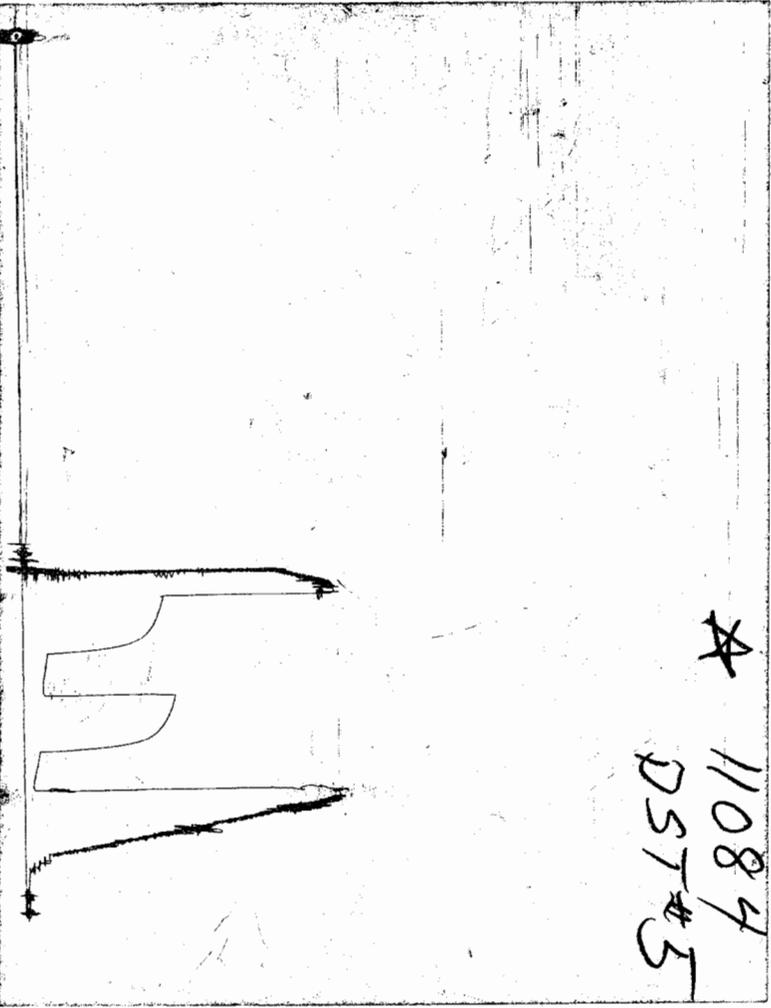
### Gas Volume Report

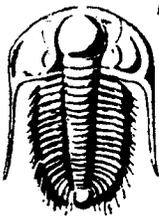
Recorder #:	11084	Open	Min:	In. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1572					
Open to Flow (1):	49	30				
Shut-in (1):	84					
End Shut-in (1):	854	45				
Open to Flow (2):	107	30				
Shut-in (2):	129					
End Shut-in (2):	786	45				
Final Hydro-static:	1653					

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**CHART PAGE**

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15734

## Test Ticket

Well Name & No. Hamburg #9 Test No. 21 Date 7-03-02  
 Company John J. Darragh, Jr. Zone Tested Lansing  
 Address 226 N. Market #300 Wichita, KS. 67202 Elevation 2145 KB 2140 GL  
 Co. Rep / Geo. Jerry Honas Cont. Mallard Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 13 S Rge. 21 W Co. Trego State KS  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3459 - 3520 Initial Str Wt./Lbs. 18000 Unseated Str Wt./Lbs. 18000  
 Anchor Length 61' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 60000  
 Top Packer Depth 3954' Tool Weight 2100  
 Bottom Packer Depth 3459' Hole Size — 7 7/8"      Rubber Size — 6 3/4"       
 Total Depth 3520' Wt. Pipe Run N/A Drill Collar Run 248.35  
 Mud Wt. 9.3 LCM      Vis. 47 WL 10.0 Drill Pipe Size 4 1/2 x 4 Ft. Run       
 Blow Description IF: Weak blow built to 1/2" died off to 1/4" in 120 bucket.  
IST: Bled down for 5 mins. No blow back.  
FF: No blow.  
FSL: No blow back.

Recovery — Total Feet 60' GIP N/A Ft. in DC 60' Ft. in DP N/A  
 Rec. 60 Feet Of Drilling Mud %gas      %oil      %water 100 %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 BHT 86 °F Gravity      °API D@      °F Corrected Gravity      °API       
 RW      @      °F Chlorides      ppm Recovery Chlorides 4000 ppm System

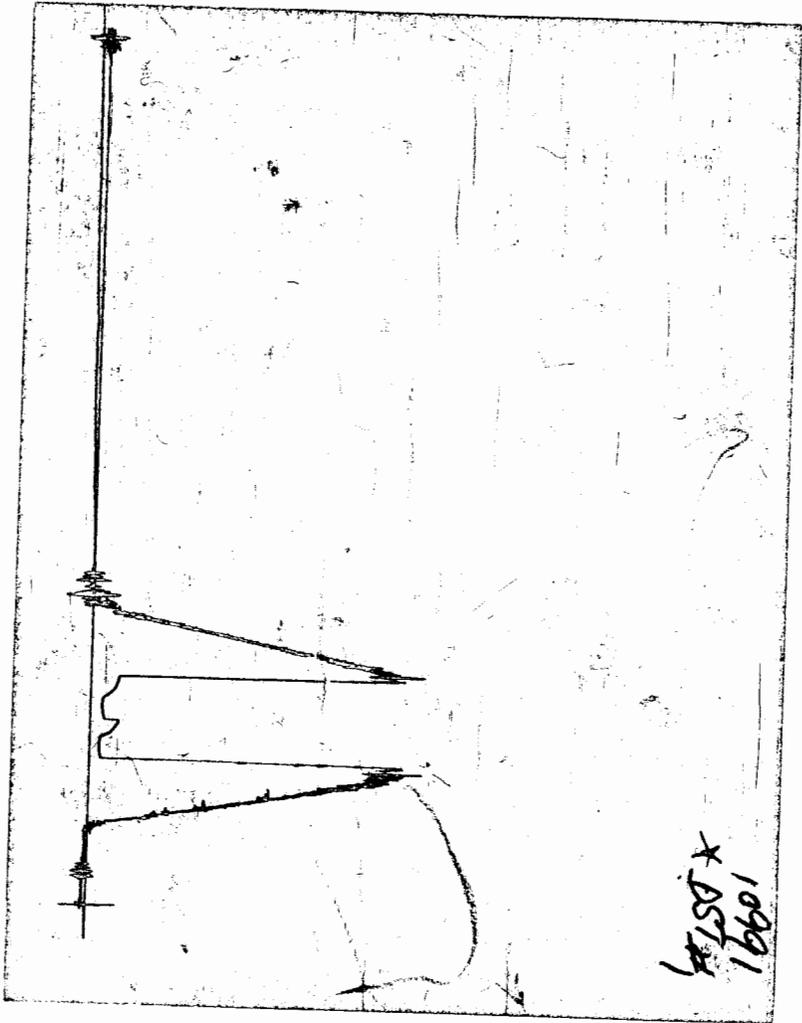
	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1903</u>		PSI Recorder No. <u>13769</u>	T-On Location <u>0645</u>
(B) First Initial Flow Pressure	<u>75</u>		PSI (depth) <u>3485'</u>	T-Started <u>0745</u>
(C) First Final Flow Pressure	<u>75</u>		PSI Recorder No. <u>10991</u> ✓	T-Open <u>0920</u>
(D) Initial Shut-In Pressure	<u>181</u>		PSI (depth) <u>3514'</u>	T-Pulled <u>1020</u>
(E) Second Initial Flow Pressure	<u>85</u>		PSI Recorder No. <u>    </u>	T-Out <u>1130</u>
(F) Second Final Flow Pressure	<u>85</u>		PSI (depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	<u>160</u>		PSI Initial Opening <u>15</u>	Test <u>✓ 700</u>
(Q) Final Hydrostatic Mud	<u>1903</u>		PSI Initial Shut-in <u>15</u>	Jars <u>    </u>
			Final Flow <u>15</u>	Safety Joint <u>    </u>
			Final Shut-in <u>15</u>	Straddle <u>    </u>

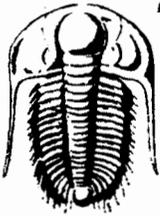
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Approved By Jerry Honas Mileage 142.20  
 Our Representative Domen J. Amurino Other       
 TOTAL PRICE \$ 720

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16416

## Test Ticket

Well Name & No. HAMBURG #9 Test No. #2 Date 7-3-02  
 Company JOHN J. DARRAH Zone Tested L-KC. - 70'  
 Address 225 N. MARKET #300 WICHITA, KS, 67202 Elevation 2145 KB 2140 GL  
 Co. Rep / Geo. JERRY HONAS Cont. MALLARD Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 13S Rge. 21W Co. TREGO State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3517 To 3532 Initial Str Wt./Lbs. 59,000 Unseated Str Wt./Lbs. 57,000  
 Anchor Length 15' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 58,000  
 Top Packer Depth 3512 Tool Weight 2,000  
 Bottom Packer Depth 3517 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 3532 Wt. Pipe Run      Drill Collar Run 248  
 Mud Wt. 9.3 LCM      Vis. 47 WL 10.0 Drill Pipe Size 4 1/2 XH Ft. Run 3278  
 Blow Description IF - STRONG B.O.B. 1-min. FSI - NO BLOW  
FF - STRONG B.O.B. 4 min. FSI - NO BLOW  
HOLE TAKING FLUID THROUGH OUT TEST

APPEARS TO BE @ MISS RUNN PACKER FAILURE

Recovery — Total Feet 1543' GIP      Ft. in DC 02 FRACTURE Ft. in DP       
 Rec. 1543 Feet Of DRILL. MUD %gas      %oil      %water      %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 BHT      °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>1734</u>		<u>11084</u>	<u>16:00</u>
(B) First Initial Flow Pressure	<u>252</u>		PSI (depth) <u>3519</u>	T-Started <u>16:45</u>
(C) First Final Flow Pressure	<u>591</u>		PSI Recorder No. <u>13308</u>	T-Open <u>18:04</u> <sup>6:45</sup>
(D) Initial Shut-In Pressure	<u>1648</u>		PSI (depth) <u>3529</u>	T-Pulled <u>20:04</u>
(E) Second Initial Flow Pressure	<u>677</u>		PSI Recorder No. <u>    </u>	T-Out <u>22:00</u>
(F) Second Final Flow Pressure	<u>818</u>		PSI (depth) <u>    </u>	T-Off Location <u>22:45</u>
(G) Final Shut-in Pressure	<u>1627</u>		PSI Initial Opening <u>30</u>	Test <u>BOTTOM HOLE</u> <sup>500</sup>
(Q) Final Hydrostatic Mud	<u>1670</u>		PSI Initial Shut-in <u>30</u>	Jars <u>    </u>
			Final Flow <u>30</u>	Safety Joint <u>    </u>
		Final Shut-in <u>30</u>	Straddle <u>    </u>	
			Circ. Sub <u>    </u>	
			Sampler <u>    </u>	
			Extra Packer <u>    </u>	
			Elec. Rec. <u>    </u>	
			Mileage <u>20</u>	
			Other <u>    </u>	

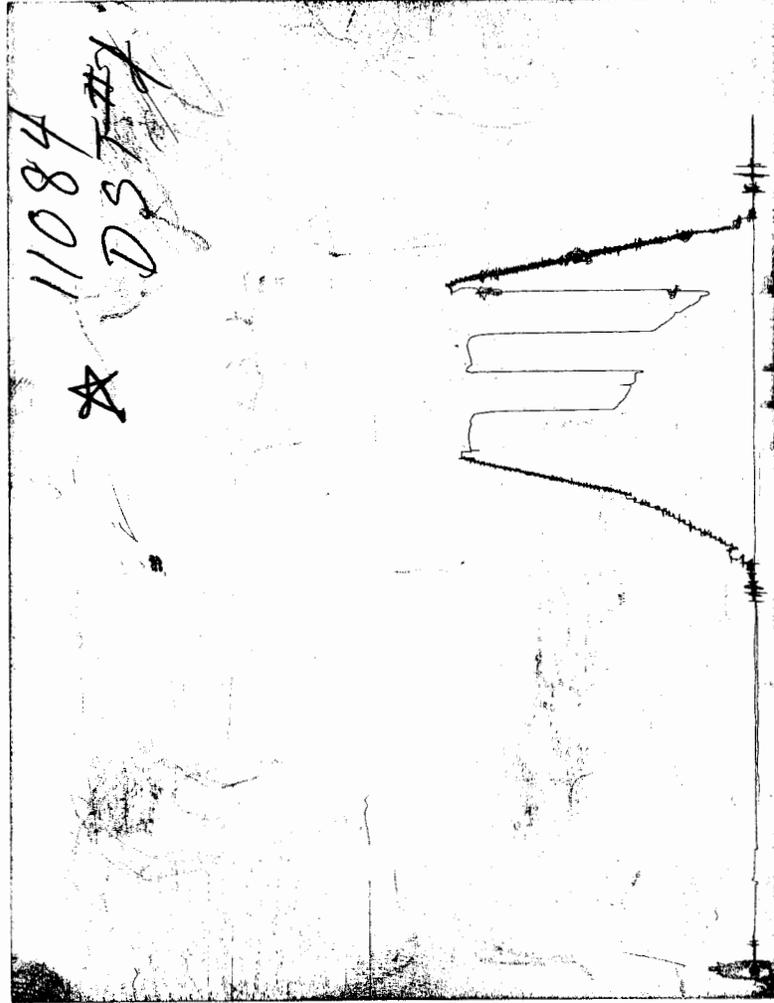
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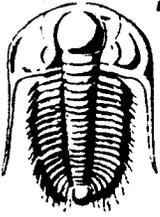
Approved By [Signature]  
Our Representative [Signature]

TOTAL PRICE 520

# CHART PAGE

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16417

## Test Ticket

Well Name & No. HAMBURG #9 Test No. #3 Date 7-4-02  
 Company JOHN J. DARRAH Zone Tested L-KC. -TOP. 35'-50'-70'-90'  
 Address 225 N. MARKET #300 WICHITA, KS 67202 Elevation 2145 KB 2190 GL  
 Co. Rep / Geo. JERRY HONAS Cont. MALLARD Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 13S Rge. 21W Co. TREGO State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3459 To 3544 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 59,000  
 Anchor Length 85' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 55,000  
 Top Packer Depth 3454 Tool Weight 3,000  
 Bottom Packer Depth 3459 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 3544 Wt. Pipe Run      Drill Collar Run 248  
 Mud Wt. 9.3 LCM      Vis. 47 WL 10.0 Drill Pipe Size 4 1/2 XH. Ft. Run 3215  
 Blow Description FF - STRONG BOB. 45 SEC. ISI - NO BLOW  
FF. BOB. 1-min. FSI - NO BLOW

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>1026</u> Feet Of <u>DRILL MUD.</u>	%gas	%oil	%water <u>100</u> %mud
Rec. <u>100</u> Feet Of <u>W-C. MUD</u>	%gas	%oil	<u>40</u> %water <u>60</u> %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 <u>118</u> °F Gravity <u>    </u> °API D@ <u>    </u> °F Corrected Gravity <u>    </u> °API			
RW <u>.17</u> @ <u>70</u> °F Chlorides <u>47,000</u> ppm Recovery Chlorides <u>    </u> ppm System			

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1734</u>	/	<u>11084</u>	<u>02:15</u>
(B) First Initial Flow Pressure	<u>438</u>		PSI (depth) <u>3463</u>	T-Started <u>03:15</u>
(C) First Final Flow Pressure	<u>471</u>		PSI Recorder No. <u>13308</u>	T-Open <u>04:30</u> 6:00
(D) Initial Shut-In Pressure	<u>1250</u>		PSI (depth) <u>3541</u>	T-Pulled <u>05:25</u>
(E) Second Initial Flow Pressure	<u>525</u>		PSI Recorder No. <u>    </u>	T-Out <u>07:00</u>
(F) Second Final Flow Pressure	<u>580</u>		PSI (depth) <u>    </u>	T-Off Location <u>08:15</u>
(G) Final Shut-in Pressure	<u>1088</u>		PSI Initial Opening <u>10</u>	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud	<u>1670</u>		PSI Initial Shut-in <u>15</u>	Jars <u>    </u>
			Final Flow <u>15</u>	Safety Joint <u>    </u>
		Final Shut-in <u>15</u>	Straddle <u>    </u>	

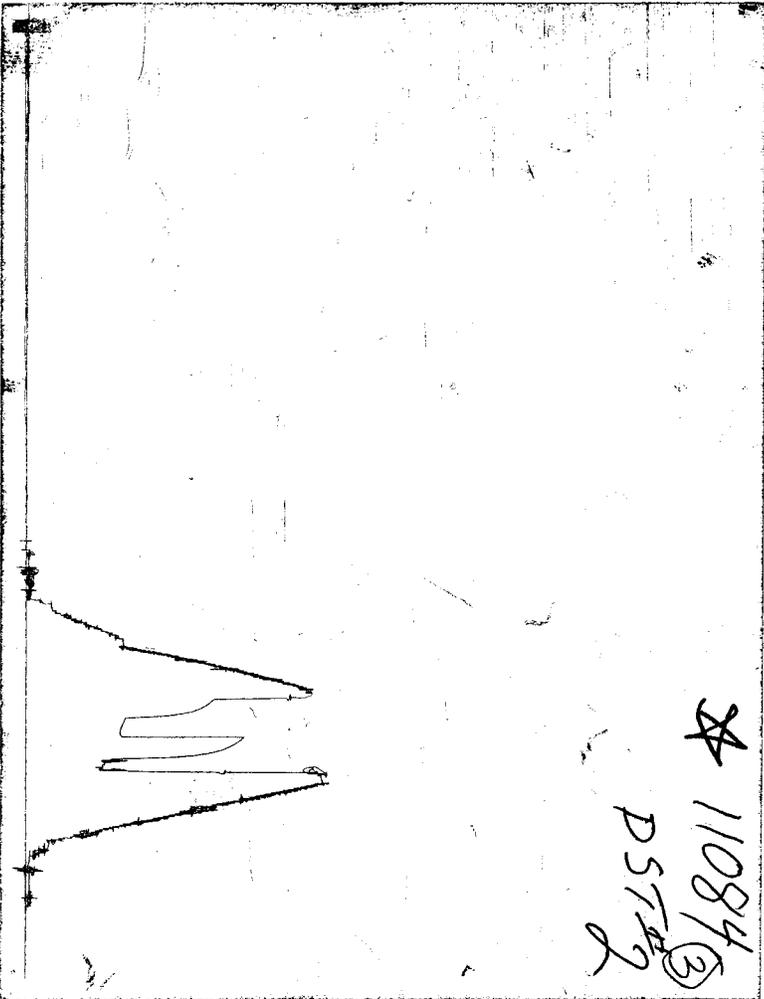
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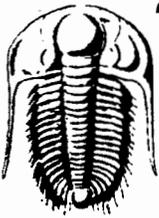
Approved By Jerry Honas  
 Our Representative     

Circ. Sub       
 Sampler       
 Extra Packer       
 Elec. Rec.       
 Mileage 20  
 Other       
 TOTAL PRICE 720

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16418

## Test Ticket

Well Name & No. HAMBURG #9 Test No. #4 Date \_\_\_\_\_  
 Company JOHN J. DARRAH Zone Tested L-KC.-140'-160'-180'-200'-220'  
 Address 225 N. MARKET #300 WICHITA, KS 67202 Elevation 2145 KB 2140 GL  
 Co. Rep / Geo. JERRY HONAS Cont. MALLARD Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 11 Twp. 13S Rge. 21W Co. TREGO State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3572 To 3695 Initial Str Wt./Lbs. 59000 Unseated Str Wt./Lbs. 59,000  
 Anchor Length 123' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 57,000  
 Top Packer Depth 3567 Tool Weight 3300  
 Bottom Packer Depth 3572 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 3695 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 248'  
 Mud Wt. 9.2 LCM \_\_\_\_\_ Vis. 55 WL 11 Drill Pipe Size 4 1/2 X H Ft. Run 3306  
 Blow Description IF.-WEAK BUILT TO 1" DEAD IN 25 MIN  
FF. DEAD  
ISI-NO BLOW FSI.-NO BLOW

Recovery — Total Feet 125 GIP \_\_\_\_\_ Ft. in DC 125' Ft. in DP \_\_\_\_\_  
 Rec. 65 Feet Of DRILL MUD %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 60 Feet Of MUD @ OIL STAIN %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet Of SLIGHT %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet Of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT \_\_\_\_\_ °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>1756</u>	( )	<u>11084</u>	<u>18:30</u>
(B) First Initial Flow Pressure	<u>55</u>		(depth) <u>3577</u>	T-Started <u>19:15</u> 5:45
(C) First Final Flow Pressure	<u>77</u>		PSI Recorder No. <u>13308</u>	T-Open <u>20:40</u>
(D) Initial Shut-In Pressure	<u>612</u>		(depth) <u>3692</u>	T-Pulled <u>22:25</u>
(E) Second Initial Flow Pressure	<u>88</u>		PSI Recorder No. _____	T-Out <u>23:45</u>
(F) Second Final Flow Pressure	<u>88</u>		(depth) _____	T-Off Location <u>00:15</u>
(G) Final Shut-in Pressure	<u>558</u>		PSI Initial Opening <u>30</u>	Test <u>BOTTOM HOLE</u> 700
(Q) Final Hydrostatic Mud	<u>1691</u>		PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow <u>15</u>	Safety Joint _____
		Final Shut-in <u>30</u>	Straddle _____	

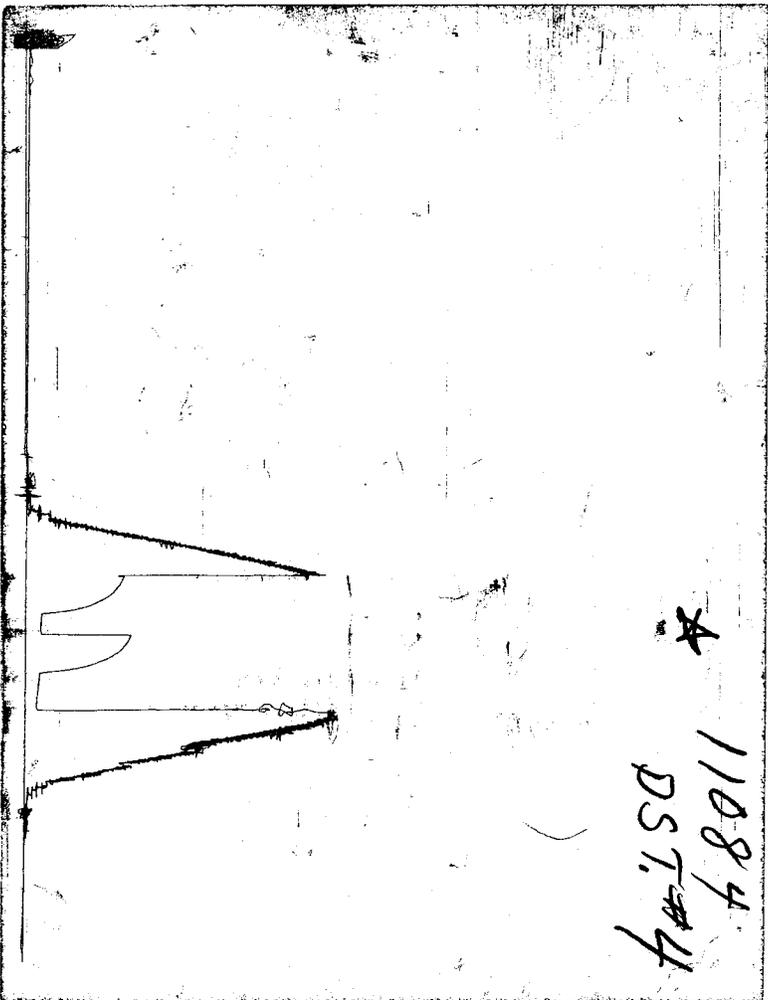
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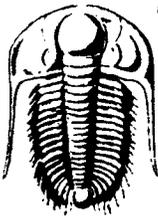
Approved By Jerry Honas  
 Our Representative John J. Darrah

Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Elec. Rec. \_\_\_\_\_  
 Mileage 20  
 Other \_\_\_\_\_  
 TOTAL PRICE \* 720

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16419

## Test Ticket

Well Name & No. HAMBURG #9 Test No. #5 Date 7-5-02  
 Company JOHN J. DARRAH Zone Tested MARMATON  
 Address 225 N. MARKET & 300 WICHITA KS 67202 Elevation 2145 KB 2140 GL  
 Co. Rep / Geo. JERRY HONAS Cont. MALLARD Est. Ft. of Pay      Por.      %  
 Location: Sec. 11 Twp. 13 S Rge. 21 W Co. TREGO State KS.  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3684-3800 Initial Str Wt./Lbs. 51,000 Unseated Str Wt./Lbs. 51,000  
 Anchor Length 116' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000  
 Top Packer Depth 3679 Tool Weight 3,200  
 Bottom Packer Depth 3684 Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 3800 Wt. Pipe Run      Drill Collar Run 248  
 Mud Wt. 9.0 LCM      Vis. 48 WL 9.8 Drill Pipe Size 4 1/2 XH Ft. Run 3434  
 Blow Description FF-WEAK BUILT TO 1 1/2" IN  
FF-6-min. To COME BACK WEAK SURF. BLOW THROUGH OUT  
2ND. OPEN

NO BLOW ON SHUT IN'S

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>98'</u>	Feet Of <u>DRILL MUD</u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>	
Rec. <u>120'</u>	Feet Of <u>SOCM</u>	%gas <u>5</u> %oil <u>    </u> %water <u>95</u> %mud <u>    </u>	
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>	
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>	
Rec. <u>    </u>	Feet Of <u>    </u>	%gas <u>    </u> %oil <u>    </u> %water <u>    </u> %mud <u>    </u>	

BHT 118 °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>1800</u>		<u>11084</u>	<u>15:45</u>
(B) First Initial Flow Pressure	<u>55</u>		(depth) <u>3688</u>	T-Started <u>16:15</u>
(C) First Final Flow Pressure	<u>88</u>		PSI Recorder No. <u>13308</u>	T-Open <u>17:50</u>
(D) Initial Shut-In Pressure	<u>872</u>		PSI (depth) <u>3797</u>	T-Pulled <u>20:20</u>
(E) Second Initial Flow Pressure	<u>110</u>		PSI Recorder No. <u>    </u>	T-Out <u>22:00</u>
(F) Second Final Flow Pressure	<u>132</u>		PSI (depth) <u>    </u>	T-Off Location <u>22:30</u>
(G) Final Shut-in Pressure	<u>797</u>		PSI Initial Opening <u>30</u>	Test <u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud	<u>1767</u>		PSI Initial Shut-in <u>45</u>	Jars <u>    </u>
			Final Flow <u>30</u>	Safety Joint <u>    </u>
			Final Shut-in <u>45</u>	Straddle <u>    </u>

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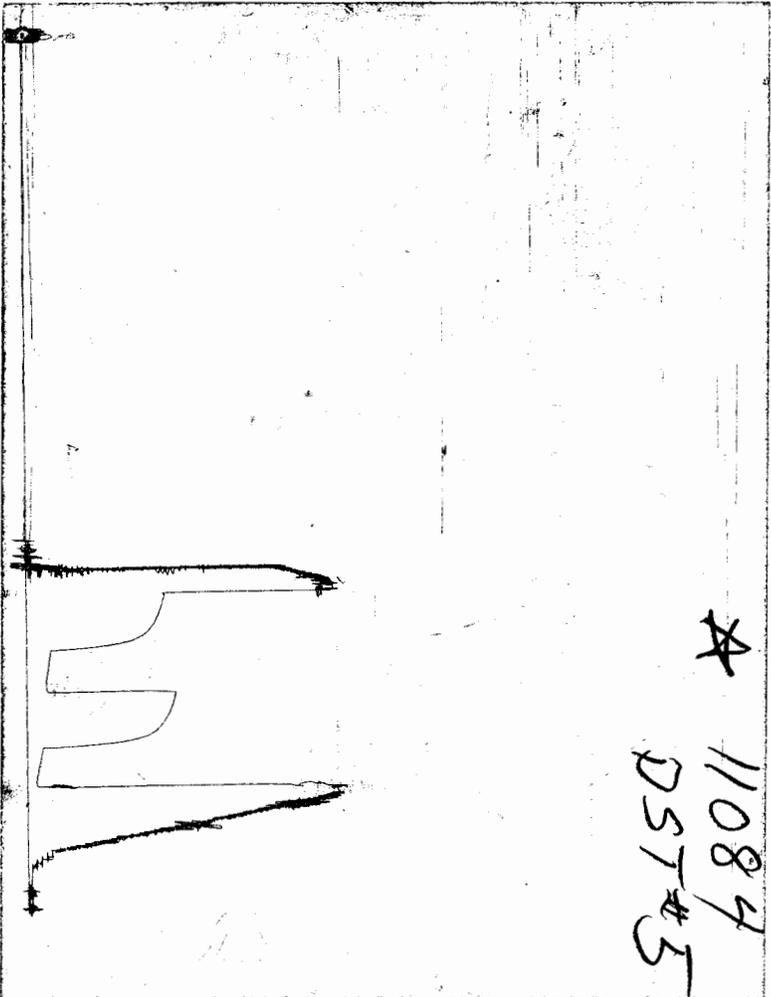
Approved By [Signature]

Our Representative John J. Schmitt

Mileage 20  
Other       
TOTAL PRICE \$ 720

# CHART PAGE

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



Well Name HANLICO #9

DST Number 10991

Recorder Number 10991

A: 1.626 1743

B: .079 84

C: .079 84

D: .179 190

E: .094 100

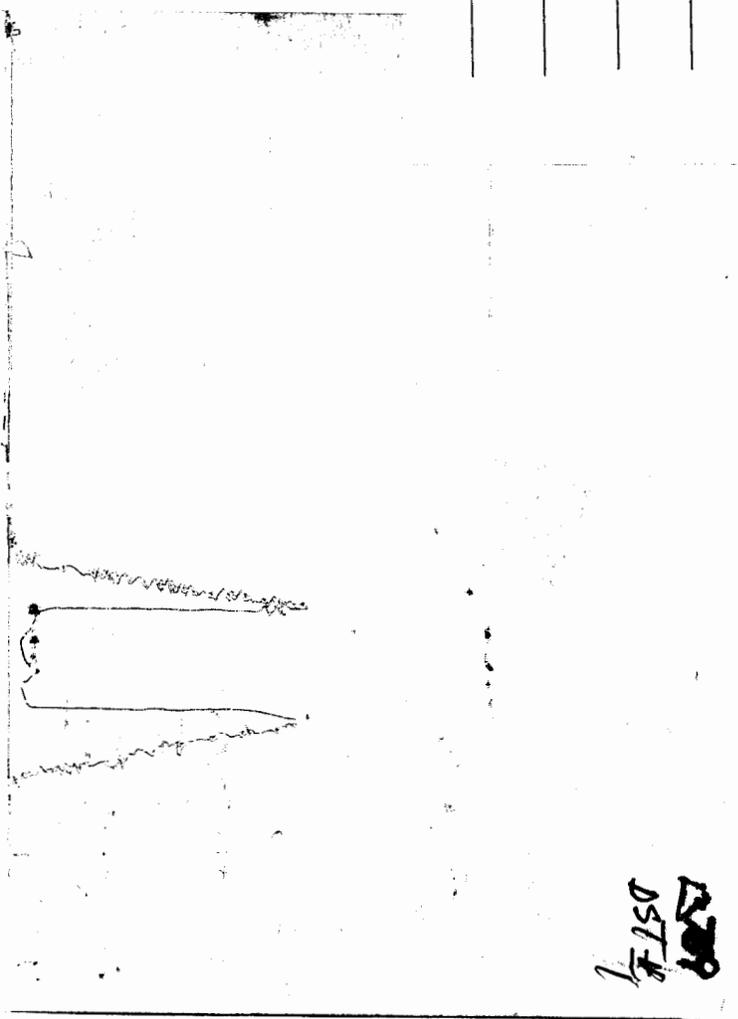
F: .088 93

G: .170 180

Q: 1.680 1789

### CHART PAGE

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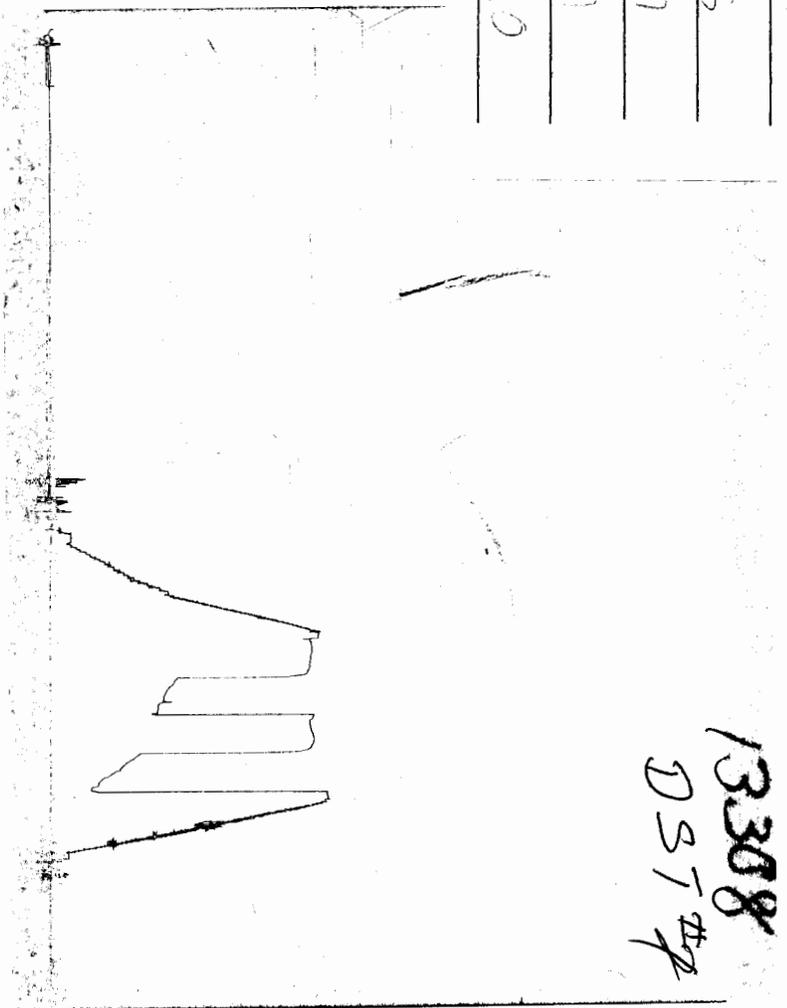
**1379**  
**DST #**

Well Name Hawling #9  
DST Number 2  
Recorder Number 11084

A: 1.535 1664  
B: .231 252  
C: .413 452  
D: 1.486 1621  
E: .581 635  
F: .648 707  
G: 1.491 167  
Q: 1.545 1670

### CHART PAGE

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13308  
DST #7

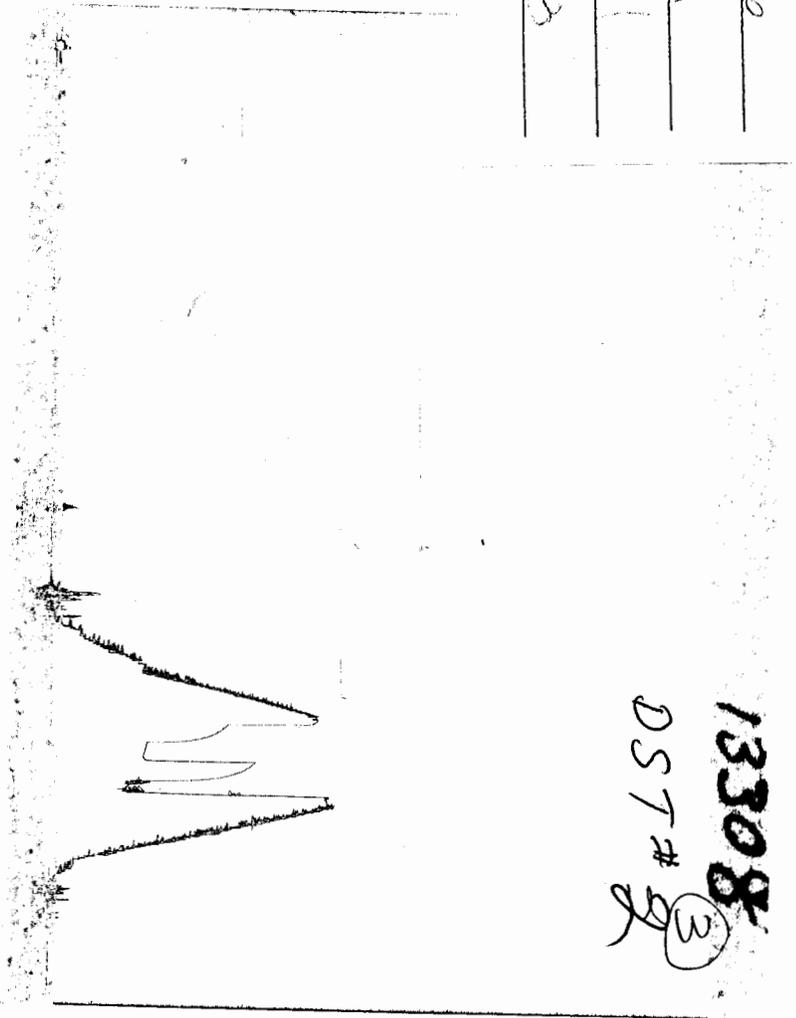
Well Name Haggard 15 #09  
DST Number 2  
Recorder Number 11084

A: 1527 1656  
B: .383 420  
C: .404 442  
D: 1.141 1240  
E: .490 536  
F: .513 561  
G: .984 1071  
O: 1.464 1508

### CHART PAGE

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**13308**  
DST # 2 (3)



Well Name 13308 # 9

DST Number 4

Recorder Number 1084

A: 1.584 1211

B: .056 61

C: .013 113

D: .555 1037

E: .083 21

F: .083 91

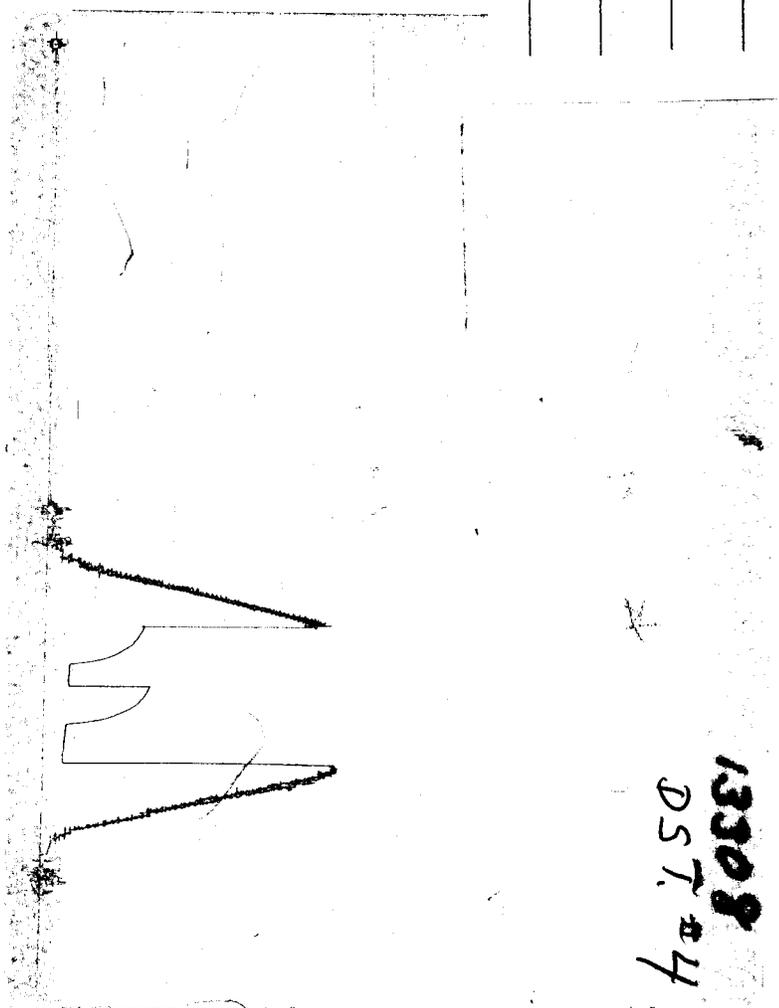
G: .519 563

Q: 1.580 1713

### CHART PAGE

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**13308**  
**DST # 4**



Well Name Hamling #9  
DSI Number 5  
Recorder Number 11084

A: 1.449 1579  
B: .645 49  
C: .077 84  
D: .784 954  
E: .098 151  
F: .118 129  
G: .721 780  
Q: 1.524 1653

### CHART PAGE

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13308  
DST # 5

