15-051-25330 20-12s-17w

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Wayne E Walcher**

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

20-12-17-Ellis-Ks

Schmeidler # 11

Start Date: 2004.10.31 @ 21:40:57
End Date: 2004.11.01 @ 05:40:27
Job Ticket #: 20852 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Wayne E Walcher Schmeidler # 11 20-12-17-Ellis-Ks DST # 1 Arbuckle 2004.10.31

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Wayne E Walcher

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

Schmeidler # 11

20-12-17-Ellis-Ks

Job Ticket: 20852 **DST#: 1**

Test Start: 2004.10.31 @ 21:40:57

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:30:27
Time Test Ended: 05:40:27

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: 3626.00 ft (KB) To 3680.00 ft (KB) (TVD)
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

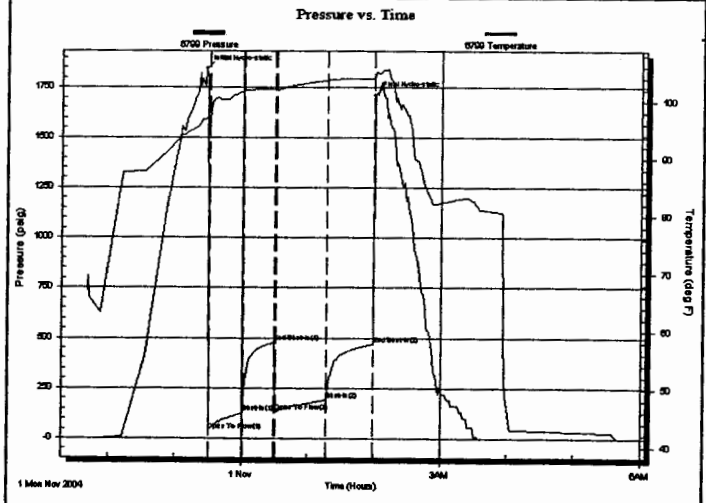
Reference Elevations: 2152.00 ft (KB)
2147.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: 191.38 psig @ 3633.00 ft (KB)
Start Date: 2004.10.31 End Date: 2004.11.01
Start Time: 21:40:58 End Time: 05:40:27

Capacity: 7000.00 psig
Last Calib.: 2004.11.01
Time On Btm: 2004.10.31 @ 23:27:27
Time Off Btm: 2004.11.01 @ 01:59:27

TEST COMMENT: IF-Strong B-B in 7 min
FF-Strong B-B in 20 min
Times-30-30-45-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.58	96.96	Initial Hydro-static
3	40.59	96.83	Open To Flow (1)
34	128.51	101.79	Shut-In(1)
62	477.73	102.19	End Shut-In(1)
63	135.58	102.07	Open To Flow (2)
109	191.38	103.63	Shut-In(2)
152	468.67	103.87	End Shut-In(2)
152	1712.02	104.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Sltly OCM 3%o 97%m	0.84
275.00	MCGsyO 10%g 70%o 20%m	3.86
160.00	CGsyO 10%g 90%o	2.24
0.00	250 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

TOOL DIAGRAM

Wayne E Walcher

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

Schmeidler # 11

20-12-17-Ellis-Ks

Job Ticket: 20852 **DST#: 1**

Test Start: 2004.10.31 @ 21:40:57

Tool Information

Drill Pipe:	Length:	3625.00 ft	Diameter:	3.80 inches	Volume:	50.85 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	50.85 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		3626.00 ft					Final	51000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		54.00 ft						
Tool Length:		75.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3606.00		
Shut In Tool	5.00			3611.00		
Hydraulic tool	5.00			3616.00		
Packer	5.00			3621.00	21.00	Bottom Of Top Packer
Packer	5.00			3626.00		
Stubb	1.00			3627.00		
Perforations	5.00			3632.00		
Change Over Sub	1.00			3633.00		
Recorder	0.00	6799	Inside	3633.00		
Drill Pipe	31.00			3664.00		
Change Over Sub	1.00			3665.00		
Recorder	0.00	13254	Outside	3665.00		
Perforations	12.00			3677.00		
Bullnose	3.00			3680.00	54.00	Bottom Packers & Anchor
Total Tool Length:	**75.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Wayne E Walcher

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

Schmeidler # 11

20-12-17-Ellis-Ks

Job Ticket: 20852 **DST#: 1**

Test Start: 2004.10.31 @ 21:40:57

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	32 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	inches				

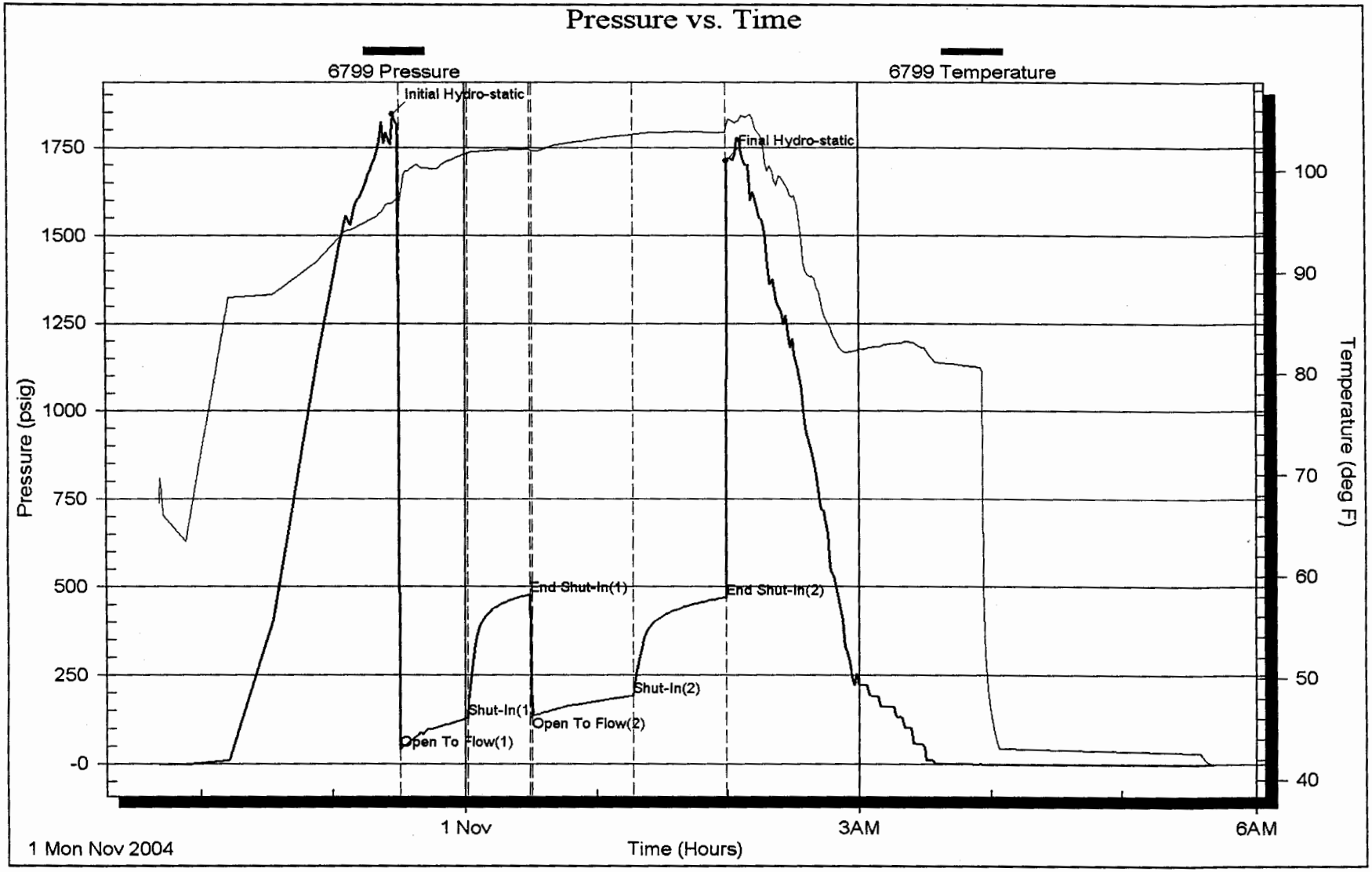
Recovery Information

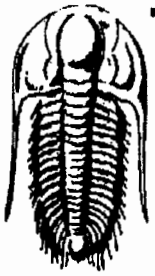
Recovery Table

Length ft	Description	Volume bbl
60.00	Sltly OCM 3%o 97%m	0.842
275.00	MCGsyO 10%g 70%o 20%m	3.858
160.00	CGsyO 10%g 90%o	2.244
0.00	250 GIP	0.000

Total Length: 495.00 ft Total Volume: 6.944 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6799 Pressure
6799 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
-0
100
90
80
70
60
50
40
1 Nov
3AM
6AM
1 Mon Nov 2004
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Wayne E Walcher**

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

20-12-17-Ellis-Ks

Schmeidler # 11

Start Date: 2004.11.01 @ 11:20:04
End Date: 2004.11.01 @ 19:19:34
Job Ticket #: 20853 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Wayne E Walcher

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

Schmeidler # 11

20-12-17-Ellis-Ks

Job Ticket: 20853 **DST#: 2**

Test Start: 2004.11.01 @ 11:20:04

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:01:04
Time Test Ended: 19:19:34

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: 3681.00 ft (KB) To 3700.00 ft (KB) (TVD)
Total Depth: 3700.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

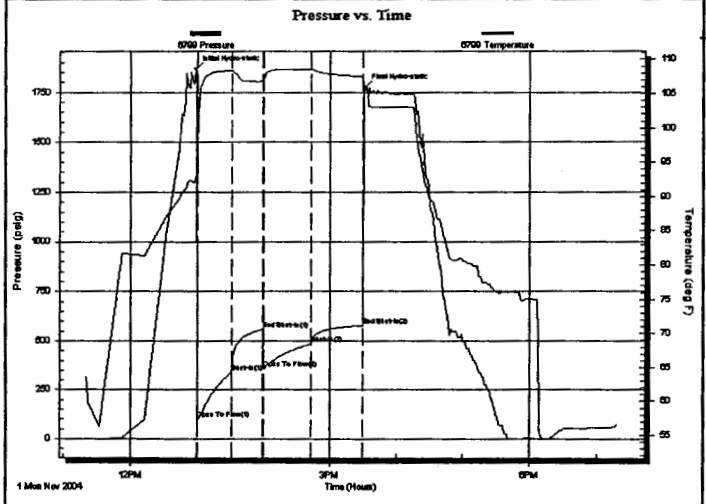
Reference Elevations: 2152.00 ft (KB)
2147.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: 484.22 psig @ 3682.00 ft (KB)
Start Date: 2004.11.01 End Date: 2004.11.01
Start Time: 11:20:05 End Time: 19:19:34

Capacity: 7000.00 psig
Last Calib.: 2004.11.01
Time On Btm: 2004.11.01 @ 12:58:34
Time Off Btm: 2004.11.01 @ 15:31:34

TEST COMMENT: IF-Strong B-B in 2 min
FF-Strong B-B in 4 min
Times-30-30-45-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.98	92.98	Initial Hydro-static
3	100.92	97.44	Open To Flow (1)
33	339.90	108.36	Shut-In(1)
62	557.49	106.77	End Shut-In(1)
63	356.64	107.01	Open To Flow (2)
105	484.22	108.49	Shut-In(2)
151	578.32	107.44	End Shut-In(2)
153	1772.98	105.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
580.00	Wtr	8.14
310.00	OCWtr 5%o 95%w	4.35
185.00	OCMdyWtr 20%o 60%w 20%m	2.60
85.00	CGsyO 10%g 90%o	1.19

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Wayne E Walcher

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

Schmeidler # 11

20-12-17-Ellis-Ks

Job Ticket: 20853 **DST#: 2**

Test Start: 2004.11.01 @ 11:20:04

Tool Information

Drill Pipe:	Length:	3687.00 ft	Diameter:	3.80 inches	Volume:	51.72 bbl	Tool Weight:		1300.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	51.72 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3681.00 ft						Final	56000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		19.00 ft							
Tool Length:		40.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3661.00		
Shut In Tool	5.00			3666.00		
Hydraulic tool	5.00			3671.00		
Packer	5.00			3676.00	21.00	Bottom Of Top Packer
Packer	5.00			3681.00		
Stubb	1.00			3682.00		
Recorder	0.00	6799	Inside	3682.00		
Perforations	15.00			3697.00		
Recorder	0.00	13254	Outside	3697.00		
Bullnose	3.00			3700.00	19.00	Bottom Packers & Anchor
Total Tool Length:	**40.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Wayne E Walcher

150 N Main Ste 809
Wichita Ks 67202

ATTN: Wayne Walcher

Schmeidler # 11

20-12-17-Ellis-Ks

Job Ticket: 20853 **DST#: 2**

Test Start: 2004.11.01 @ 11:20:04

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	28000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	inches				

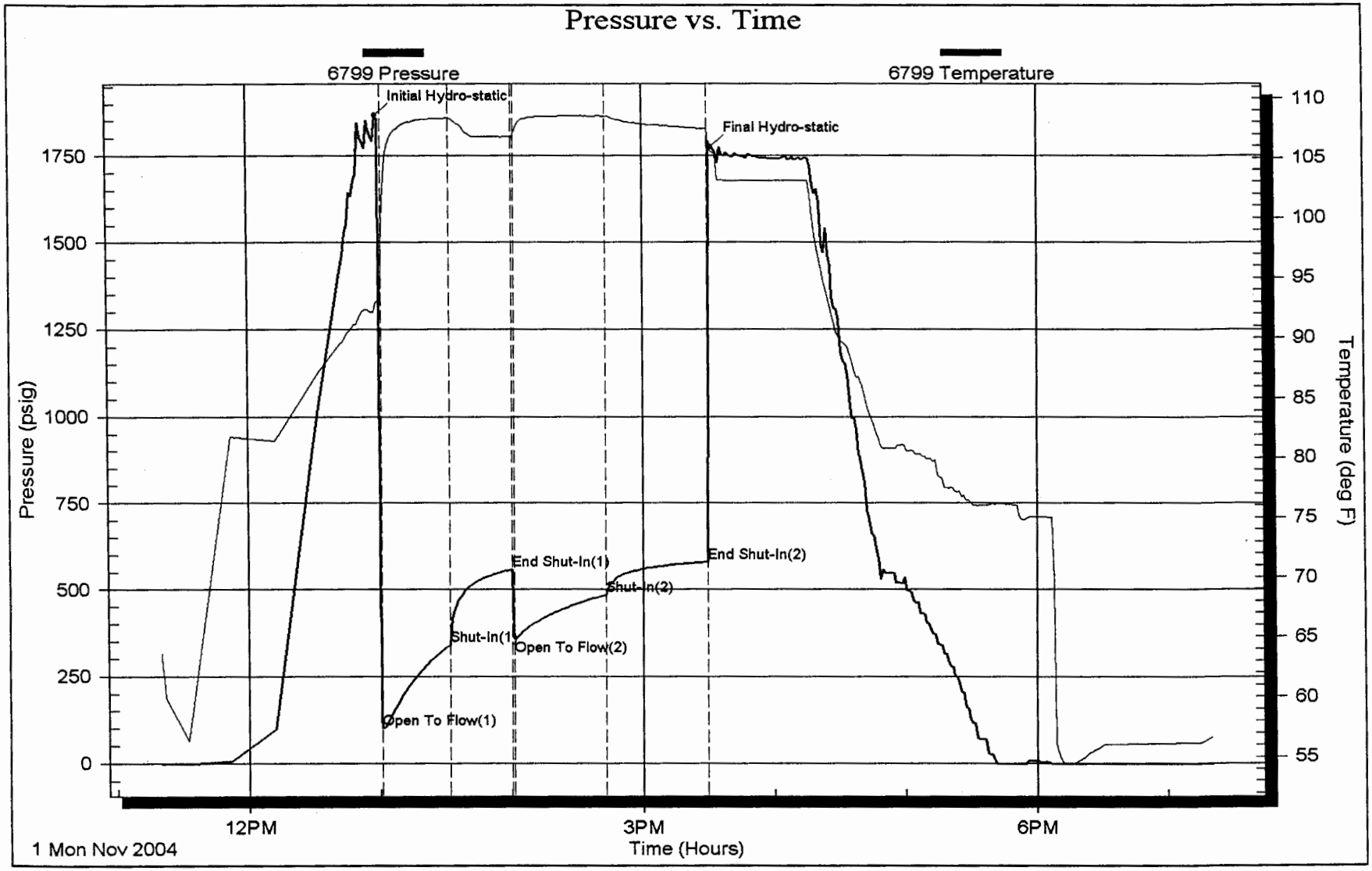
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
580.00	Wtr	8.136
310.00	OCWtr 5%o 95%w	4.348
185.00	OCMdyWtr 20%o 60%w 20%m	2.595
85.00	CGsyO 10%g 90%o	1.192

Total Length: 1160.00 ft Total Volume: 16.271 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6799 Pressure
6799 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
75
70
65
60
55
12PM
3PM
6PM
1 Mon Nov 2004
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 6906

№ 20852

05/03

Test Ticket

Well Name & No. Schmeidler # 11 Test No. 1 Date 10-31-04

Company Wayne E. Walcher Zone Tested Arbuckle

Address 150 N. Main, STE 809, Wichita, Ks. 67202 Elevation 2152 KB 2147 GL

Co. Rep / Geo. Jerry Honas Cont. L.D. Drlg. Est. Ft. of Pay ______ Por. ______ %

Location: Sec. 20 Twp. 12 Rge. 17 Co. Ellis State Ks

No. of Copies ______ Disbtribution Sheet (Y, N) ______ Turnkey (Y, N) ______ Evaluation (Y, N) ______

Interval Tested 3626 — 3680 Initial Str Wt./Lbs. 50,000 Unseated Str Wt/Lbs. 51,000

Anchor Length 54 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 3621 Tool Weight 2200

Bottom Packer Depth 3626 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 3680 Wt. Pipe Run ______ Drill Collar Run ______

Mud Wt. 9 LCM ______ Vis. 56 WL 9.6 Drill Pipe Size 4.5 XH Ft. Run 3625

Blow Description I.F. Strong B-B in 7 min.

F.F. Strong - B-B in 20 min.

Recovery - Total Feet 495 GIP 250 Ft. in DC ______ Ft. in DP 495

Rec.	Feet of	%gas	%oil	%water	%mud
160	CGO y O	10	90		
275	MCGSYO	10	70		20
60	SlH y OCM		3		97

BHT 103 °F Gravity ______ °API D @ ______ °F Corrected Gravity 32 °API

RW ______ @ ______ °F Chlorides ______ ppm Recovery ______ Chlorides 6,000 ppm System

	AK-1 / Alpine					
(A) Initital Hydrostatic Mud	1843 PSI	Recorder No.	6799	Test	900
(B) First Initial Flow Pressure	40 PSI	(depth)	3633	Elec. Rec.	X	—
(C) First Final Flow Pressure	128 PSI	Recorder No.	13254	Jars	
(D) Initial Shut-In Pressure	477 PSI	(depth)	3665	Safety Jt.	
(E) Second Initial Flow Pressure	135 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure	191 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure	468 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud	1712 PSI	Initial Shut-In	30	Ext. Packer	
		Final Flow	45	Shale Packer	
		Final Shut-In	45	Mileage 30	30
		T-On Location	21:00	Sub Total:	930
		T-Started	21:40	Std. By	
		T-Open	23:30	Other	
		T-Pulled	02:00	Total:	930
		T-Out	04:15		

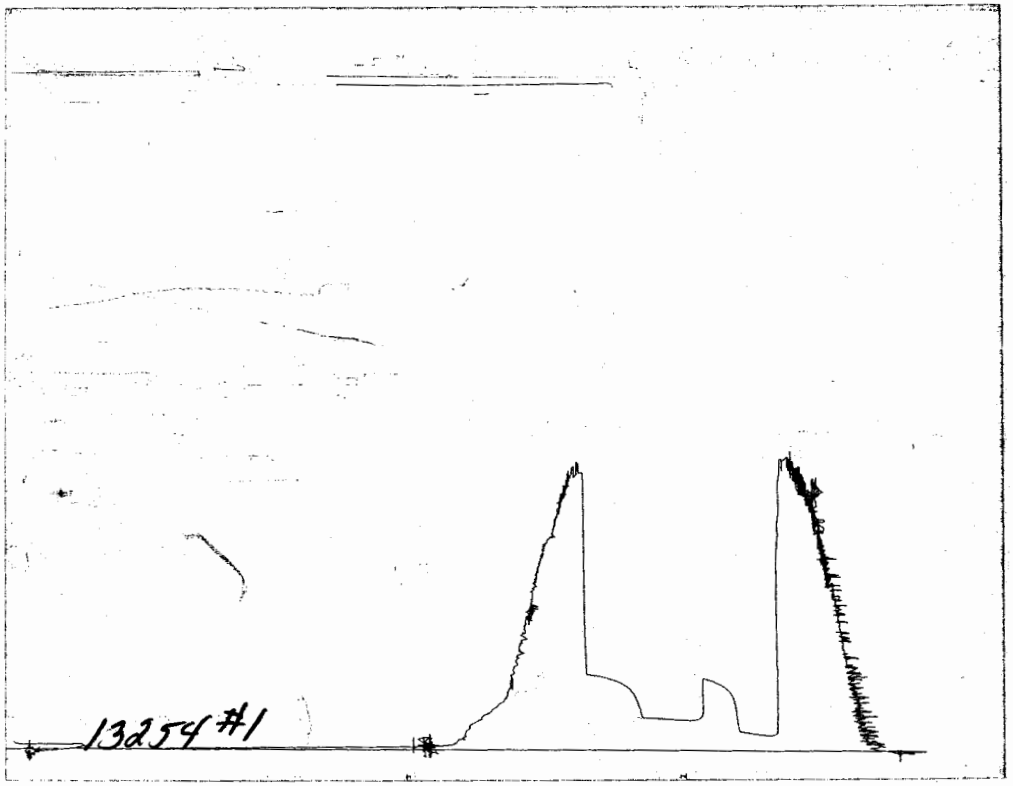
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Jerry Honas

Our Representative Dan Bangle

CHART PAGE

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



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

05/03

№ 20853

Test Ticket

Well Name & No. Schmeidler #11 Test No. 2 Date 11-1-04

Company Wayne E. Walcher Zone Tested Arbuckle

Address _____ Elevation 2152 KB 2147 GL

Co. Rep / Geo. Jerry Homas Cont. L.D. Drlg Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 20 Twp. 12 Rge. 17 Co. Ellis State Ks

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3681 ——— 3700 Initial Str Wt./Lbs. 50,000 Unseated Str Wt/Lbs 56,000

Anchor Length 19 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000

Top Packer Depth 3676 Tool Weight 1300

Bottom Packer Depth 3681 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 3700 Wt. Pipe Run _____ Drill Collar Run _____

Mud Wt. 9.2 LCM _____ Vis. 51 WL 10.4 Drill Pipe Size 4.5 XH Ft. Run 3687

Blow Description I.F. Strong B-B in 2 min.

F.F. Strong B-B in 4 min.

Recovery - Total Feet 1200 GIP 105 Ft. in DC _____ Ft. in DP _____

Rec. 85	Feet of CGsyO	10 %gas	90 %oil	%water	%mud
Rec. 185	Feet of OCMdyW	%gas	20 %oil	60 %water	20 %mud
Rec. 310	Feet of OCWtr	%gas	5 %oil	95 %water	%mud
Rec. 580	Feet of WTR	%gas	%oil	%water	%mud
Rec. _____	Feet of _____	%gas	%oil	%water	%mud

BHT 107 °F Gravity _____ °API D @ _____ °F Corrected Gravity 34 °API

RW .23 @ 80 °F Chlorides 28,200 ppm Recovery _____ Chlorides 7,000 ppm System

	AK-1	Alpine				
(A)Initial Hydrostatic Mud		1864 PSI	Recorder No.	6799	Test	900
(B) First Initial Flow Pressure		100 PSI	(depth)	3682	Elec. Rec.	X
(C) First Final Flow Pressure		339 PSI	Recorder No.	13254	Jars	
(D) Initial Shut-In Pressure		557 PSI	(depth)	3697	Safety Jt.	
(E) Second Initial Flow Pressure		356 PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure		484 PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		578 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		1772 PSI	Initial Shut-In	30	Ext. Packer	
			Final Flow	45	Shale Packer	
			Final Shut-In	45	Mileage	30 30
			T-On Location	11:00	Sub Total:	930
			T-Started	11:20	Std. By	
			T-Open	13:03	Other	
			T-Pulled	15:48	Total:	930
			T-Out	19:19		

Approved By _____

Our Representative _____

CHART PAGE

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