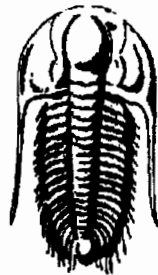


15-167-23410

28-15-11w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mai Oil**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

28 15 11W Russell KS

Swart A #1

Start Date: 2007.02.16 @ 16:11:48

End Date: 2007.02.16 @ 21:29:01

Job Ticket #: 27506 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil
PO Box 33
Russell KS 67665
ATTN: Kitt Noah

Swart A #1
28 15 11W Russell KS
Job Ticket: 27506 **DST#: 1**
Test Start: 2007.02.16 @ 16:11:48

GENERAL INFORMATION:

Formation: **LKC "A-B"**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 18:21:46
Time Test Ended: 21:29:01

Test Type: **Conventional Bottom Hole**
Tester: **Brian Fairbank**
Unit No: **24**

Interval: **2864.00 ft (KB) To 2920.00 ft (KB) (TVD)**
Total Depth: **2920.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **1736.00 ft (KB)**
1728.00 ft (CF)
KB to GR/CF: **8.00 ft**

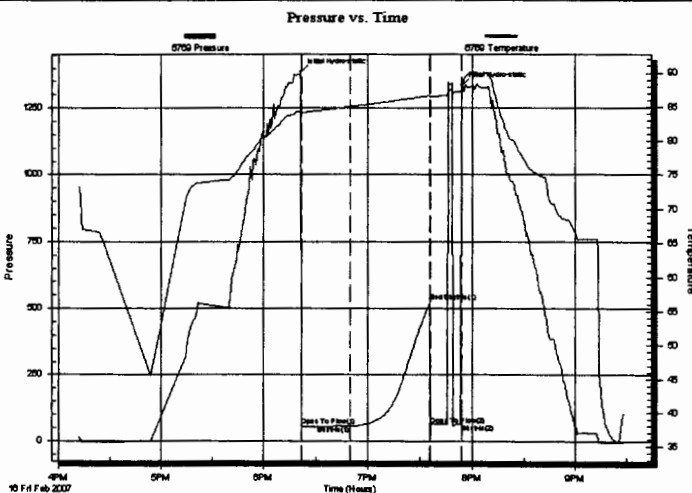
Serial #: 6769

Inside

Press@RunDepth: **56.74 psig @ 2870.01 ft (KB)**
Start Date: **2007.02.16** End Date: **2007.02.16**
Start Time: **16:11:48** End Time: **21:29:01**

Capacity: **7000.00 psig**
Last Calib.: **2007.02.16**
Time On Btm: **2007.02.16 @ 18:21:31**
Time Off Btm: **2007.02.16 @ 19:54:16**

TEST COMMENT: IFP Weak blow throughout 3/4 " - 1 " - died off to 3/4 "
ISI No blow back
FFP No blow - flush tool - pull tool
TIME 30 45 10 flush tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1384.56	84.36	Initial Hydro-static
1	57.06	84.02	Open To Flow (1)
29	56.74	85.03	Shut-In(1)
75	525.53	86.65	End Shut-In(1)
75	60.58	86.44	Open To Flow (2)
93	63.34	87.24	Shut-In(2)
93	1334.98	87.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	100%M	0.09

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil

Swart A #1

PO Box 33
Russell KS 67665

28 15 11W Russell KS

ATTN: Kitt Noah

Job Ticket: 27506

DST#: 1

Test Start: 2007.02.16 @ 16:11:48

Tool Information

Drill Pipe:	Length: 2855.00 ft	Diameter: 3.88 inches	Volume: 41.75 bbl	Tool Weight:	2500.00 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:	41.75 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	2864.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.02 ft				
Tool Length:	76.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Started off bottom 1445

Trip in with tool - worked on water 1/2 hour

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2849.00	
Hydraulic tool	5.00			2854.00	
Packer	5.00			2859.00	20.00 Bottom Of Top Packer
Packer	5.00			2864.00	
Stubb	1.00			2865.00	
Perforations	4.00			2869.00	
Change Over Sub	1.00			2870.00	
Recorder	0.01	6769	Inside	2870.01	
Blank Spacing	31.00			2901.01	
Change Over Sub	1.00			2902.01	
Perforations	15.00			2917.01	
Recorder	0.01	13548	Outside	2917.02	
Bullnose	3.00			2920.02	56.02 Bottom Packers & Anchor

Total Tool Length: 76.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil

Swart A #1

PO Box 33
Russell KS 67665

28 15 11W Russell KS

Job Ticket: 27506

DST#: 1

ATTN: Kitt Noah

Test Start: 2007.02.16 @ 16:11:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	100%M	0.088

Total Length: 6.00 ft

Total Volume: 0.088 bbl

Num Fluid Samples: 0

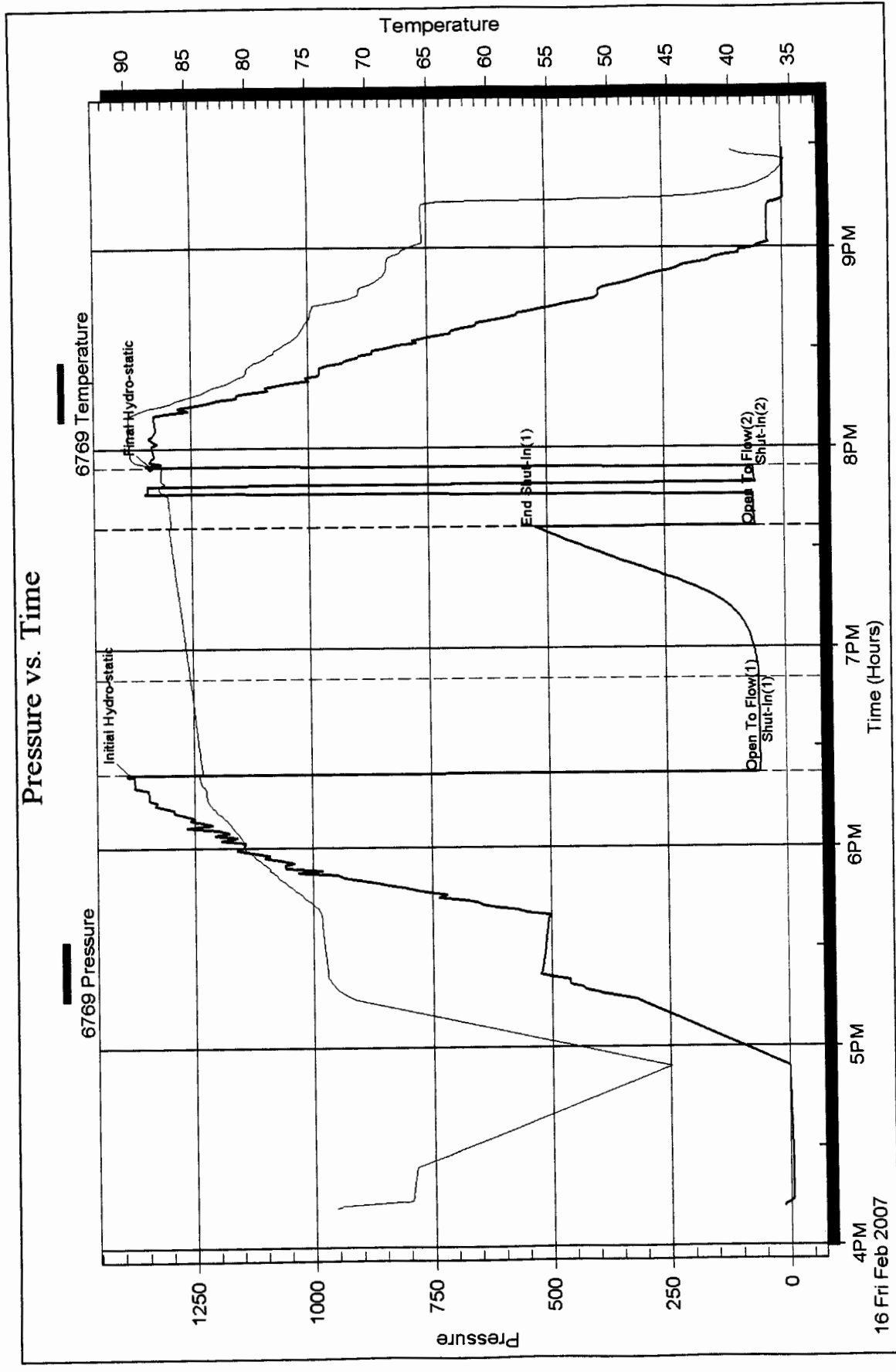
Num Gas Bombs: 0

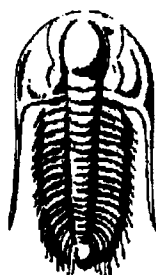
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mai Oil**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

28 15 11W Russell KS

Swart A #1

Start Date: 2007.02.18 @ 03:30:24

End Date: 2007.02.18 @ 08:58:52

Job Ticket #: 27507 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



Mai Oil

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

28 15 11W Russell KS
Job Ticket: 27507 **DST#: 2**
Test Start: 2007.02.18 @ 03:30:24

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:44:22
Time Test Ended: 08:58:52

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 24

Interval: 3134.00 ft (KB) To 3212.00 ft (KB) (TVD)
Total Depth: 3212.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition:

Reference Elevations: 1736.00 ft (KB)
1728.00 ft (CF)
KB to GR/CF: 8.00 ft

Inside

Press@RunDepth: 56.23 psig @ 3137.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.02.18

End Date: 2007.02.18

Last Calib.: 2007.02.18

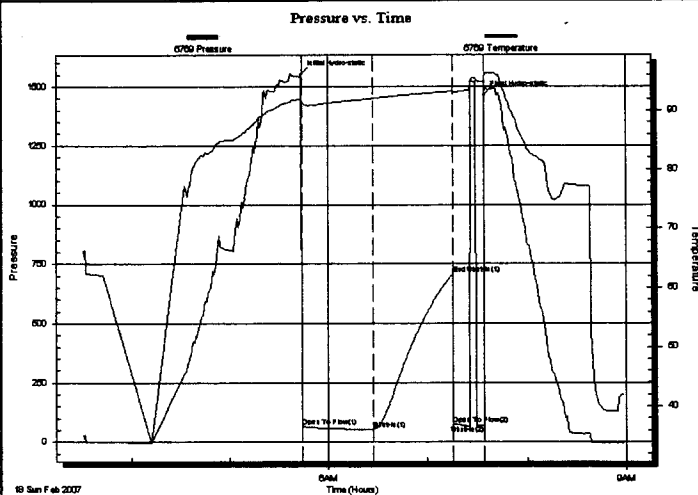
Start Time: 03:30:24

End Time: 08:58:52

Time On Btm: 2007.02.18 @ 05:43:52

Time Off Btm: 2007.02.18 @ 07:34:07

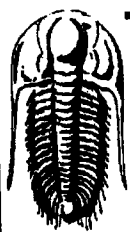
TEST COMMENT: IFF Weak blow throughout - sur -1/2 " - died to 1/4 "
 ISI No blow back
 FFP No blow - flush tool - no blow - pull tool
 TIME 45 45 10



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.82	92.01	Initial Hydro-static
1	67.64	91.35	Open To Flow (1)
44	56.23	92.09	Shut-In(1)
92	705.89	93.24	End Shut-In(1)
92	75.84	92.96	Open To Flow (2)
110	69.70	94.85	Shut-In(2)
111	1462.61	95.43	Final Hydro-static

Length (ft)	Description	Volume (bbl)
1.00	SOCM 10%O 90%M	0.01
6.00	100%M	0.09

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil

Swart A #1

PO Box 33
Russell KS 67665

28 15 11W Russell KS

Job Ticket: 27507

DST#: 2

ATTN: Kitt Noah

Test Start: 2007.02.18 @ 03:30:24

Tool Information

Drill Pipe:	Length: 3137.00 ft	Diameter: 3.88 inches	Volume: 45.88 bbl	Tool Weight: 2500.00 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: 42000.00 lb
		Total Volume: 45.88 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3134.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.02 ft			
Tool Length:	98.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3119.00	
Hydraulic tool	5.00			3124.00	
Packer	5.00			3129.00	20.00 Bottom Of Top Packer
Packer	5.00			3134.00	
Stubb	1.00			3135.00	
Perforations	1.00			3136.00	
Change Over Sub	1.00			3137.00	
Recorder	0.01	6769	Inside	3137.01	
Blank Spacing	62.00			3199.01	
Change Over Sub	1.00			3200.01	
Perforations	9.00			3209.01	
Recorder	0.01	13548	Outside	3209.02	
Bullnose	3.00			3212.02	78.02 Bottom Packers & Anchor

Total Tool Length: 98.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil

Swart A #1

PO Box 33
Russell KS 67665

28 15 11W Russell KS

Job Ticket: 27507

DST#: 2

ATTN: Kitt Noah

Test Start: 2007.02.18 @ 03:30:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	SOCM 10%O 90%M	0.015
6.00	100%M	0.088

Total Length: 7.00 ft

Total Volume: 0.103 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

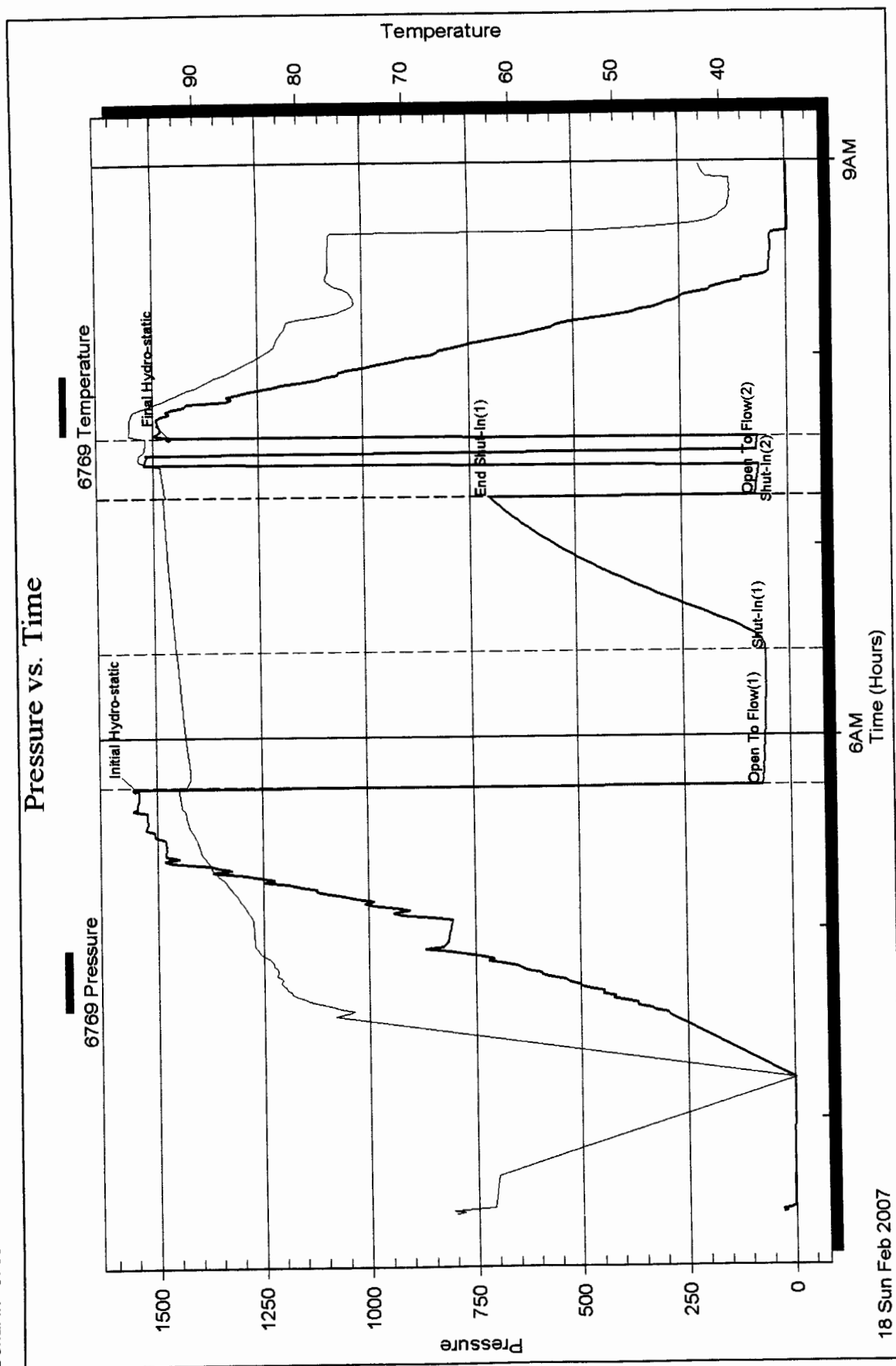
28 15 11W Russell KS

Mai Oil

Inside

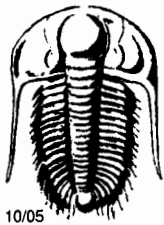
Serial #: 6769

Pressure vs. Time



Ref. No: 27507

Trilobite Testing, Inc



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27506

9861

Test Ticket

Well Name & No. Swart A #1 Test No. 1 Date 2-16-07
 Company Mai Zone Tested LKC "A-B"
 Address PO Box 33 Russell, KS 67665 Elevation 1736 KB 1728 GL
 Co. Rep / Geo. Kitt Abach Rig Southwind 3
 Location: Sec. 28 Twp. 15 Rge. 11 Co. Russell State Ks
 Comment: started out w/ bit 1445 / in w/ tool worked on water 1/2 hour Release date / time: _____

Interval Tested 2864-2920 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 38,000
 Anchor Length 56 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 2859 Tool Weight 2500
 Bottom Packer Depth 2864 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 2920 Wt. Pipe Run — Drill Collar Run —
 Mud Wt. 9.1 LCM — Vis. 49 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 2855
 Blow Description IFP - weak blow throughout 3/4 - 1 - died to 3/4
ISI - no blow back
FFP - no blow - shut tool - no blow - pull tool
FSI - —

Recovery - Total Feet 6 GIP — Ft. in DC — Ft. in DP 6
 Rec. 6 Feet of mud %gas — %oil — %water 100 %mud —
 Rec. — Feet of — %gas — %oil — %water — %mud —
 Rec. — Feet of — %gas — %oil — %water — %mud —
 Rec. — Feet of — %gas — %oil — %water — %mud —
 Rec. — Feet of — %gas — %oil — %water — %mud —
 BHT 87 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 2500 ppm System

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1375 PSI	6769	✓ 1100
(B) First Initial Flow Pressure	57 PSI	(depth) 2870	Jars
(C) First Final Flow Pressure	57 PSI	Recorder No. 13548	Safety Jt.
(D) Initial Shut-In Pressure	526 PSI	(depth) 2917	Circ Sub
(E) Second Initial Flow Pressure	61 PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure	63 PSI	(depth)	Straddle
(G) Final Shut-In Pressure	— PSI	Initial Opening 30	Ext. Packer
(Q) Final Hydrostatic Mud	1329 PSI	Initial Shut-In 45	Shale Packer
		Final Flow 10 - flush - pull	Ruined Packer
		Final Shut-In	Mileage 128 160
		T-On Location 1304	Sub Total: 50
		T-Started 1611	Std. By 1/2 50
		T-Open 1821	Acc. Chg: 1310
		T-Pulled 1959	Other: 1310
		T-Out 2128	Total: 1310

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Approved By Kitt Abach
 Our Representative Brian Fairbank (Thub)

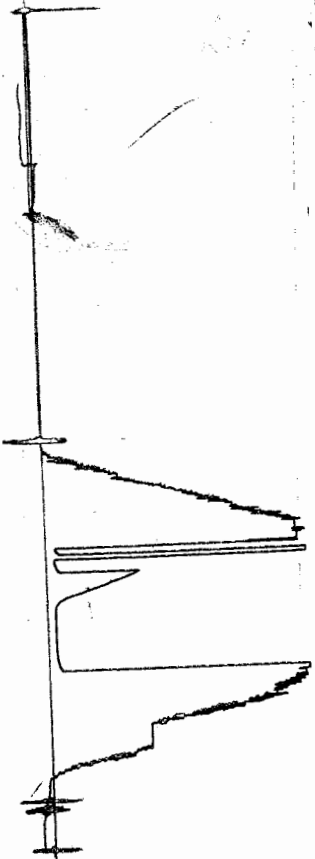
CHART PAGE

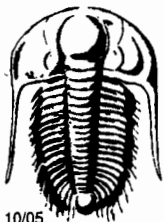
This is a photocopy of the actual AK-1 recorder chart.

Ma'

Swart A #1

DST #1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27507

Test Ticket

Well Name & No. Boughton #2 Smart A #1 Test No. 2 Date 2-18-07
 Company Mai Zone Tested Atankle
 Address PO Box 33 Russell, KS 67665 Elevation 1728 GL
 Co. Rep / Geo. K. H. Bach Rig Southway
 Location: Sec. 28 Twp. 15^s Rge. 11^w Co. Russell State K
 Comment: _____ Release date / time: _____

Interval Tested 3134-3212 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 39,000
 Anchor Length 78 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 42,000
 Top Packer Depth 3129 Tool Weight 2500
 Bottom Packer Depth 3134 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 3212 Wt. Pipe Run — Drill Collar Run —
 Mud Wt. 9.3 LCM — Vis. 47 WL 9.2 Drill Pipe Size 4 1/2 XH Ft. Run 3137
 Blow Description IFP- weak blow throughout sur- 1/2 died to 1/4
ISI- no blow back
FFP- no blow - flush - no blow - pull tool
FSI-

Recovery - Total Feet 7 GIP — Ft. in DC — Ft. in DP 6
 Rec. 6 Feet of Mud %gas — %oil — %water 100 %mud —
 Rec. 1 Feet of SOCM %gas 10 %oil — %water 90 %mud —
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 93 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1543</u>	PSI	<u>6769</u>	<u>✓</u>
(B) First Initial Flow Pressure	<u>68</u>	PSI	<u>3137</u>	Jars
(C) First Final Flow Pressure	<u>56</u>	PSI	<u>13548</u>	Safety Jt.
(D) Initial Shut-In Pressure	<u>706</u>	PSI	<u>3209</u>	Circ Sub
(E) Second Initial Flow Pressure	<u>76</u>	PSI		Sampler
(F) Second Final Flow Pressure	<u>70</u>	PSI		Straddle
(G) Final Shut-In Pressure	<u>—</u>	PSI	<u>45</u>	Ext. Packer
(Q) Final Hydrostatic Mud	<u>1465</u>	PSI	<u>45</u>	Shale Packer

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Approved By Brian Fairbank
 Our Representative Brian Fairbank (Thank)

Final Flow 10-Flush
 Final Shut-In —
 T-On Location 0315
 T-Started 0330
 T-Open 0543
 T-Pulled 0735
 T-Out 0858

Test ✓ 1100
 Jars _____
 Safety Jt. _____
 Circ Sub _____
 Sampler _____
 Straddle _____
 Ext. Packer _____
 Shale Packer _____
 Ruined Packer _____
 Mileage ✓ 128 160
 Sub Total: _____
 Std. By _____
 Acc. Chg: _____
 Other: \$1200
 Total: _____

CHART PAGE

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

Ma.
Sweet 4 #1
OST #2

