

DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

10 16S 14W Barton KS

Karst-Popp Unit #1

Start Date: 2006.12.04 @ 06:45:44

End Date: 2006.12.04 @ 16:27:22

Job Ticket #: 25499 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 Operations Inc

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

Karst-Popp Unit #1

10 16S 14W Barton KS

Job Ticket: 25499

DST#: 1

Test Start: 2006.12.04 @ 06:45:44

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:36:59

Time Test Ended: 16:27:22

Test Type: Conventional Bottom Hole

Tester: Zach Stover

Unit No: 23

Interval: **3271.00 ft (KB) To 3330.00 ft (KB) (TVD)**

Total Depth: 3330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1923.00 ft (KB)

1915.00 ft (CF)

KB to GRV/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: 338.83 psig @ 3310.00 ft (KB)

Start Date: 2006.12.04

End Date:

2006.12.04

Capacity: 7000.00 psig

Last Calib.: 2006.12.04

Start Time: 06:45:49

End Time:

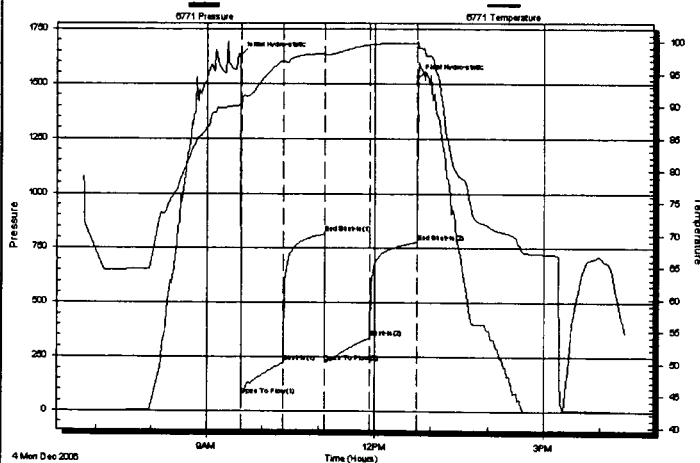
16:27:21

Time On Btm: 2006.12.04 @ 09:36:14

Time Off Btm: 2006.12.04 @ 12:45:43

TEST COMMENT: IF Strong blow BOB in 7 min.
ISI Tried to bleed off Blow present entire time
FF Strong blow BOB in 8 min.
FSI Tried to bleed off Blow present entire time

Pressure vs. Time



PRESSURE SUMMARY

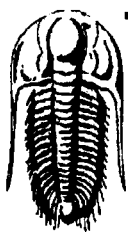
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.95	90.17	Initial Hydro-static
1	71.47	89.82	Open To Flow (1)
46	224.17	97.06	Shut-In (1)
91	816.25	98.03	End Shut-In (1)
91	226.09	97.86	Open To Flow (2)
139	338.83	99.54	Shut-In (2)
190	777.48	99.67	End Shut-In (2)
190	1525.47	100.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GSY MCW 5%G 85%W 10%M	1.01
90.00	GSY OMCW 15%G 10%O 40%W 20%M	1.26
180.00	GSY W&MCO 10%G 70%O 10%W 10%M	2.52
420.00	GSY W&MCO 35%G 50%O 10%W 5%M	5.89

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc

Karst-Popp Unit #1

PO Box 33
Russell KS 67665

10 16S 14W Barton KS

Job Ticket: 25499

DST#: 1

ATTN: Kitt Noah

Test Start: 2006.12.04 @ 06:45:44

Tool Information

Drill Pipe:	Length: 3257.00 ft	Diameter: 3.80 inches	Volume: 45.69 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	46000.00 lb
		Total Volume:	45.83 bbl	Tool Chased	ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3271.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	79.00 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			3252.00	
Shut In Tool	5.00			3257.00	
Hydraulic tool	5.00			3262.00	
Packer	4.00			3266.00	20.00 Bottom Of Top Packer
Packer	5.00			3271.00	
Stubb	1.00			3272.00	
Perforations	5.00			3277.00	
Change Over Sub	1.00			3278.00	
Blank Spacing	31.00			3309.00	
Change Over Sub	1.00			3310.00	
Recorder	0.00	6771	Inside	3310.00	
Perforations	15.00			3325.00	
Recorder	0.00	13789	Outside	3325.00	
Bullnose	5.00			3330.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

Karst-Popp Unit #1

PO Box 33
Russell KS 67665

10 16S 14W Barton KS

Job Ticket: 25499

DST#: 1

ATTN: Kitt Noah

Test Start: 2006.12.04 @ 06:45:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28.748 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: 7.20 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GSY MCW 5%G 85%W 10%M	1.007
90.00	GSY OMCW 15%G 10%O 40%W 20%M	1.262
180.00	GSY W&MCO 10%G 70%O 10%W 10%M	2.525
420.00	GSY W&MCO 35%G 50%O 10%W 5%M	5.891

Total Length: 780.00 ft

Total Volume: 10.685 bbl

Num Fluid Samples: 0

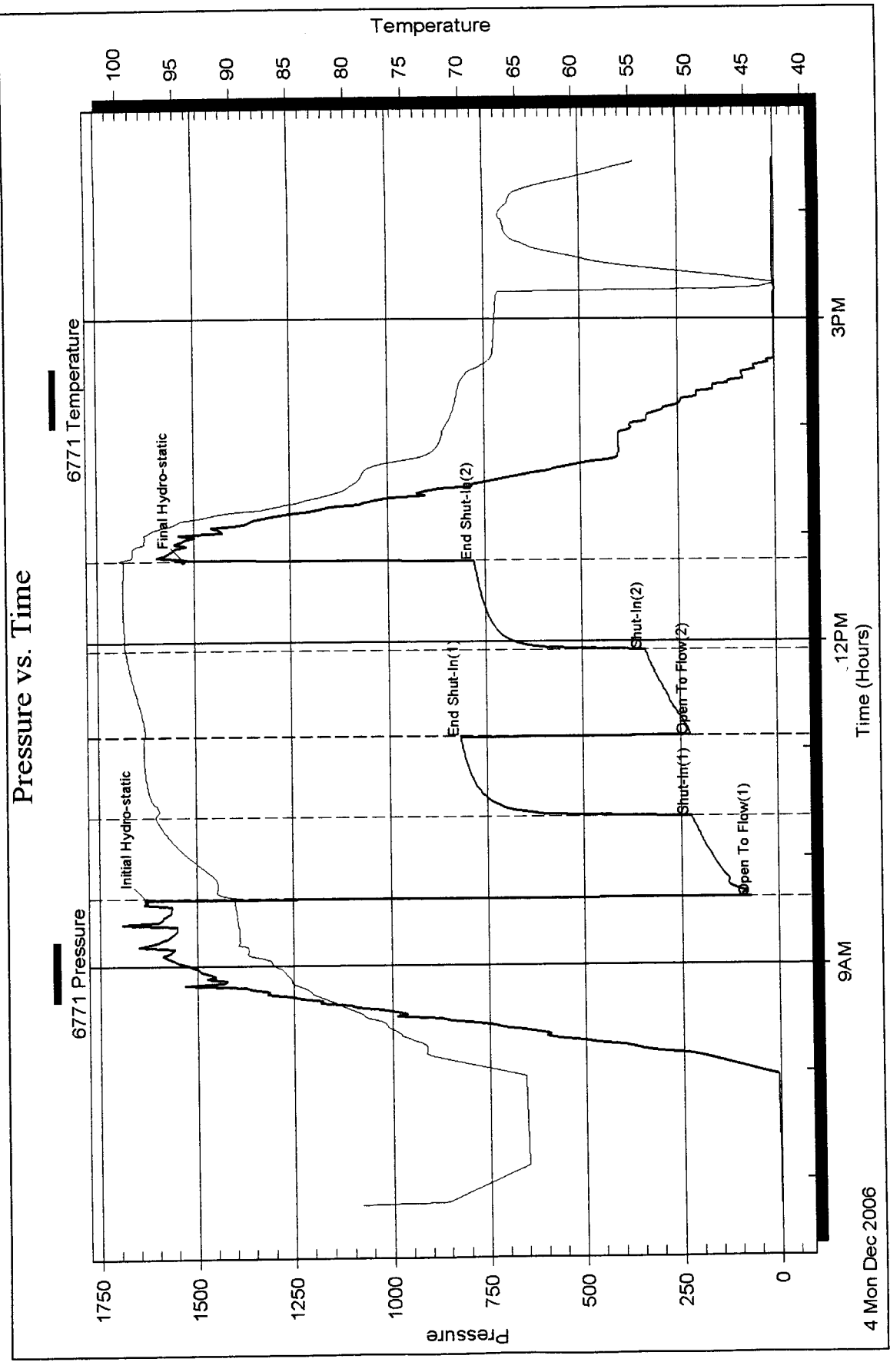
Num Gas Bombs: 0

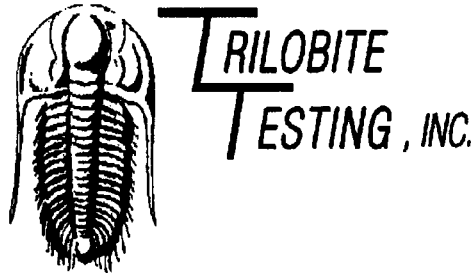
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

10 16S 14W Barton KS

Karst-Popp Unit #1

Start Date: 2006.12.05 @ 03:56:44

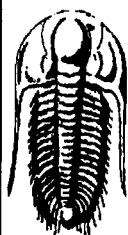
End Date: 2006.12.05 @ 10:49:44

Job Ticket #: 25500 DST #: 2

Trilobite Testing, Inc

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



TRILOBITE
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DRILL STEM TEST REPORT

Mai Oil Operations Inc

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

Karst-Popp Unit #1

10 16S 14W Barton KS

Job Ticket: 25500

DST#: 2

Test Start: 2006.12.05 @ 03:56:44

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:07:14

Time Test Ended: 10:49:44

Test Type: Conventional Bottom Hole

Tester: Zach Stover

Unit No: 23

Interval: **3350.00 ft (KB) To 3403.00 ft (KB) (TVD)**

Total Depth: 3330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1923.00 ft (KB)

1915.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6771 Inside

Press@RunDepth: 20.19 psig @ 3355.00 ft (KB)

Start Date: 2006.12.05

End Date:

2006.12.05

Start Time: 03:56:49

End Time:

10:49:43

Capacity: 7000.00 psig

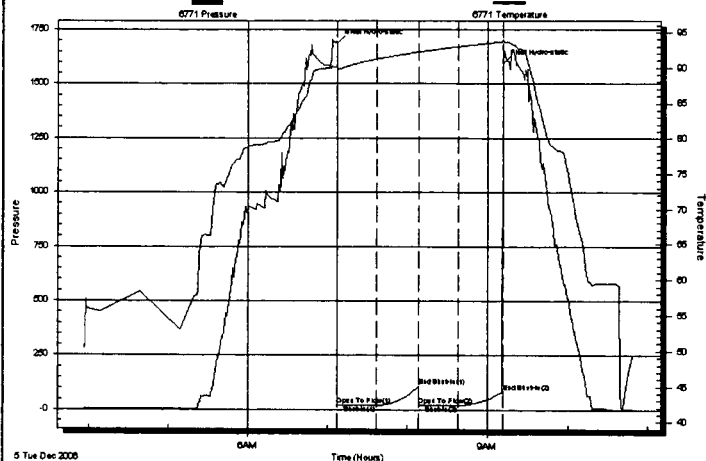
Last Calib.: 2006.12.05

Time On Btm: 2006.12.05 @ 07:06:59

Time Off Btm: 2006.12.05 @ 09:11:44

TEST COMMENT: IF Weak blow 1/4 "
ISI No blow
FF Weak blow 1/2 "
FSI Weak blow 1/4 "

Pressure vs. Time



PRESSURE SUMMARY

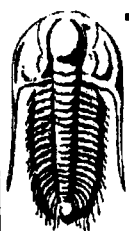
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.37	90.13	Initial Hydro-static
1	21.87	89.77	Open To Flow (1)
31	20.73	91.23	Shut-In (1)
62	109.06	92.24	End Shut-In (1)
62	22.85	92.24	Open To Flow (2)
92	20.19	92.98	Shut-In (2)
125	84.45	93.70	End Shut-In (2)
125	1595.39	94.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil specked Mud in top of tool	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations Inc

Karst-Popp Unit #1

PO Box 33
Russell KS 67665

10 16S 14W Barton KS

Job Ticket: 25500

DST#: 2

ATTN: Kitt Noah

Test Start: 2006.12.05 @ 03:56:44

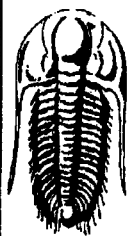
Tool Information

Drill Pipe:	Length: 3318.00 ft	Diameter: 3.80 inches	Volume: 46.54 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	400000.0 lb
		Total Volume:	46.68 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3350.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	73.00 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			3331.00	
Shut In Tool	5.00			3336.00	
Hydraulic tool	5.00			3341.00	
Packer	4.00			3345.00	20.00 Bottom Of Top Packer
Packer	5.00			3350.00	
Stubb	1.00			3351.00	
Perforations	4.00			3355.00	
Recorder	0.00	6771	Inside	3355.00	
Change Over Sub	1.00			3356.00	
Blank Spacing	31.00			3387.00	
Change Over Sub	1.00			3388.00	
Perforations	10.00			3398.00	
Recorder	0.00	13789	Outside	3398.00	
Bullnose	5.00			3403.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations Inc

Karst-Popp Unit #1

PO Box 33
Russell KS 67665

10 16S 14W Barton KS

Job Ticket: 25500

DST#: 2

ATTN: Kitt Noah

Test Start: 2006.12.05 @ 03:56:44

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: 8.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil specked Mud in top of tool	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

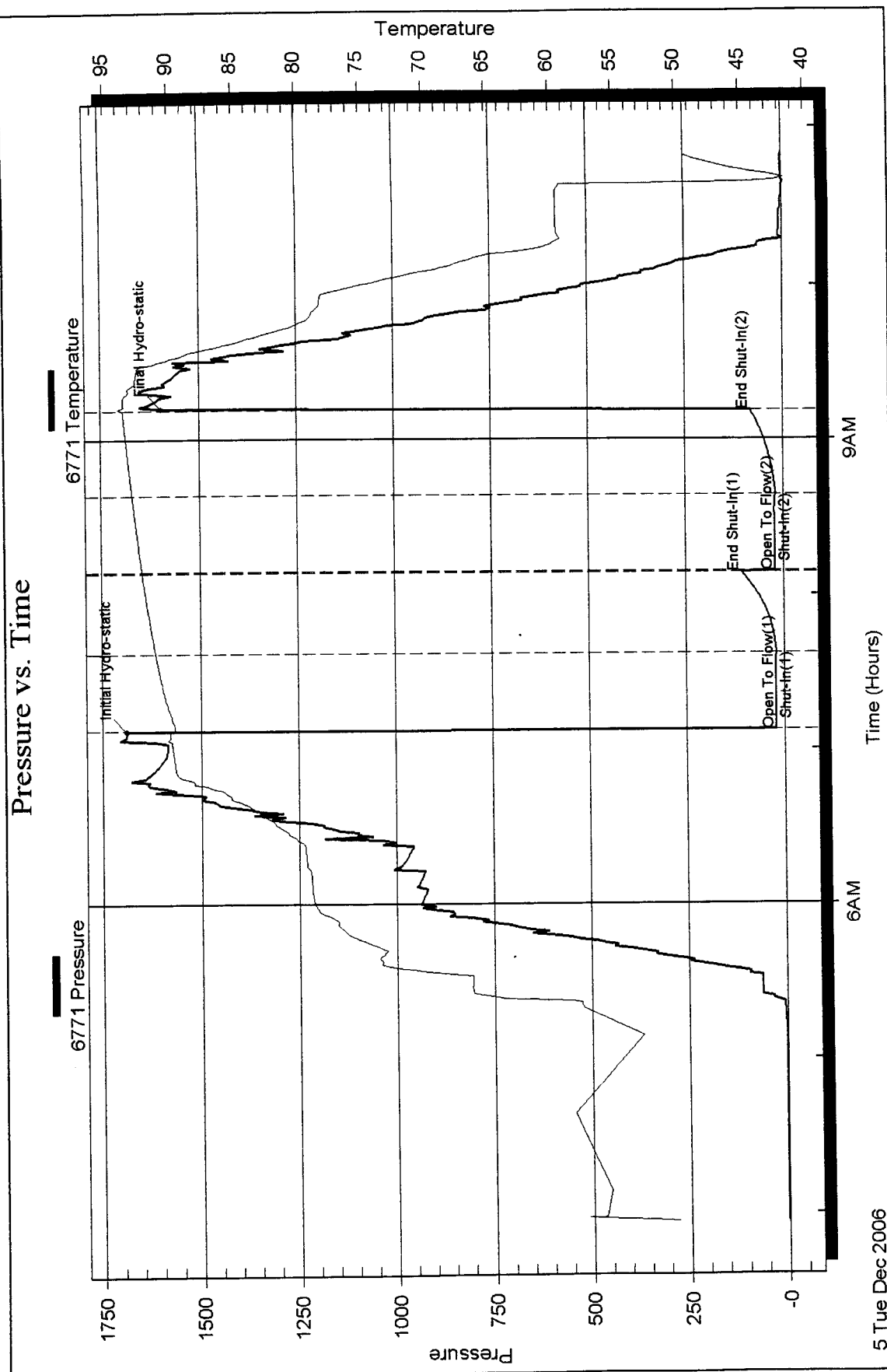
Serial #:

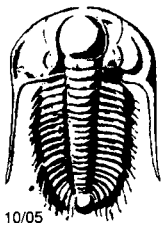
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25499

Test Ticket

Well Name & No. Karst-Popp Unit #1 Test No. 1 Date 12-4-06
 Company Main Oil Operations Inc. Zone Tested LKC H-K
 Address POB 33 Russell Ks 67665 Elevation 1923 KB 1915 GL
 Co. Rep / Geo. Kitt Noah (Noah) Rig Southwind #3
 Location: Sec. 10 Twp. 16S Rge. 14W Co. Barton State Ks
 Comment: Sorry for the oil spatters Release date / time: _____

Interval Tested 3271-3330 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 42000
 Anchor Length 59' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 44000
 Top Packer Depth 3266 Tool Weight 2100
 Bottom Packer Depth 3271 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3330 Wt. Pipe Run _____ Drill Collar Run 28
 Mud Wt. 9.3 LCM 5.2 Vis. 5.2 WL 7.2 Drill Pipe Size 4 1/2" Ft. Run 3257

Blow Description IF: Strong blow, BOB in 7 min.
ISI: Tried to bleed off. Blow present entire time.
FF: Strong blow, BOB in 8 min.
FSI: Tried to bleed off. Blow entire time.

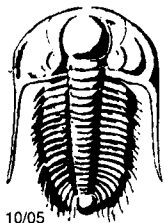
Recovery Total Feet 780 GIP _____ Ft. in DC 28 Ft. in DP _____
 Rec. 90 Feet of G54 MCW 5 %gas _____ %oil 85 %water 10 %mud
 Rec. 90 Feet of G54 OM CW 15 %gas _____ %oil 40 %water 20 %mud
 Rec. 180 Feet of G54 W & MCO 10 %gas _____ %oil 10 %water 10 %mud
 Rec. 420 Feet of G54 W & MCO 35 %gas _____ %oil 10 %water 5 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 100 °F Gravity 28 API D @ 48 °F Corrected Gravity 28.7 API
 RW .32 @ 53 °F Chlorides 28000 ppm Recovery 28000 Chlorides 6000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1628	PSI	6771	1100
(B) First Initial Flow Pressure	71	PSI	3310	Jars
(C) First Final Flow Pressure	224	PSI	13789	Safety Jt.
(D) Initial Shut-In Pressure	816	PSI	3325	Circ Sub
(E) Second Initial Flow Pressure	226	PSI		Sampler
(F) Second Final Flow Pressure	339	PSI		Straddle
(G) Final Shut-In Pressure	777	PSI	Initial Opening	Ext. Packer
(Q) Final Hydrostatic Mud	1516	PSI	Initial Shut-In	Shale Packer

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Approved By Kitt Noah
 Our Representative Zachary Stover

Final Flow 45
 Final Shut-In 45
 T-On Location 3:10
 T-Started 6:45
 T-Open 10:18
 T-Pulled 13:18
 T-Out 17:14
 Mileage 100
 Sub Total: _____
 Std. By ✓ hrs 600
 Acc. Chg: _____
 Other: _____
 Total: \$1800



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25500

Test Ticket

Well Name & No.	Karst - Popp Unit #1	Test No.	#2	Date	12-5-06
Company	Mai Oil Operations Inc.	Zone Tested	Arbuckle		
Address	POB 33 Russell Ks 67665	Elevation	1923	KB	1915 GL
Co. Rep / Geo.	Kitt Noah	Rig	Southwind #3		
Location: Sec.	10	Twp.	16S	Rge.	14W
		Co.	Barton	State	Ks
Comment:	Release date / time:				

Interval Tested	3350 - 3403	Initial Str Wt./Lbs.	38000	Unseated Str Wt./Lbs.	38000
Anchor Length	53'	Wt. Set Lbs.	20000	Wt. Pulled Loose/Lbs.	40000
Top Packer Depth	3345	Tool Weight	2100		
Bottom Packer Depth	3350	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth	3403	Wt. Pipe Run	—	Drill Collar Run	28
Mud Wt. 9.25 LCM	Vis. 45	Drill Pipe Size	4 1/2"	Ft. Run	3349

Blow Description

IS: Weak blow 1/4"

ISI: No blow

FF: Weak blow 1/2"

FSI: Weak blow 1/4"

Recovery - Total Feet	—	GIP	—	Ft. in DC	—	Ft. in DP	—
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		
Rec.	Feet of	%gas	%oil	%water	%mud		
BHT	94	*F Gravity		*API D @		*F Corrected Gravity	
RW	@	*F	Chlorides	ppm Recovery		Chlorides	6500 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1688 PSI
(B) First Initial Flow Pressure			22 PSI
(C) First Final Flow Pressure			21 PSI
(D) Initial Shut-In Pressure			109 PSI
(E) Second Initial Flow Pressure			23 PSI
(F) Second Final Flow Pressure			20 PSI
(G) Final Shut-In Pressure			84 PSI
(Q) Final Hydrostatic Mud			1595 PSI

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Approved By Kitt Noah

Our Representative Jackey #2000

Recorder No.	6771	Test	✓ 1100
(depth)	3355	Jars	
Recorder No.	13789	Safety Jt.	
(depth)	3398	Circ Sub	
Recorder No.	—	Sampler	
(depth)	—	Straddle	
Initial Opening	30	Ext. Packer	
Initial Shut-In	30	Shale Packer	
Final Flow	30	Ruined Packer	
Final Shut-In	30	Mileage	80 ✓ 100
T-On Location	3:20	Sub Total:	
T-Started	3:56	Std. By	
T-Open	7:05	Acc. Chg:	61200
T-Pulled	9:05	Other:	
T-Out	10:55	Total:	