



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21st Street N
Wichita KS 67205

ATTN: Randy Kilian

34 2S 24W Norton KS

Ella Mae #34-1

Start Date: 2008.01.18 @ 14:43:08

End Date: 2008.01.19 @ 02:23:08

Job Ticket #: 31527 DST #: 1

15-137-20472
SE NW NW NE
S00 FN L 2220 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

IA Operating Inc

Ella Mae #34-1

34 2S 24W Norton KS

DST # 1

LKC "C"

2008.01.18

Printed: 2008.01.22 @ 10:52:25 Page 1

RECEIVED
KANSAS CORPORATION COMMISSION

APR 04 2008



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

IA Operating Inc
9915 W 21st Street N
Wichita KS 67205
ATTN: Randy Kilian

Ella Mae #34-1
34 2S 24W Norton KS
Job Ticket: 31527 **DST#: 1**
Test Start: 2008.01.18 @ 14:43:08

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:56:38
Time Test Ended: 02:23:08

Test Type: Conventional Straddle
Tester: James Winder
Unit No: 20

Interval: **3497.00 ft (KB) To 3529.00 ft (KB) (TVD)**
Total Depth: 3767.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2485.00 ft (KB)
2480.00 ft (CF)
KB to GR/CF: 5.00 ft

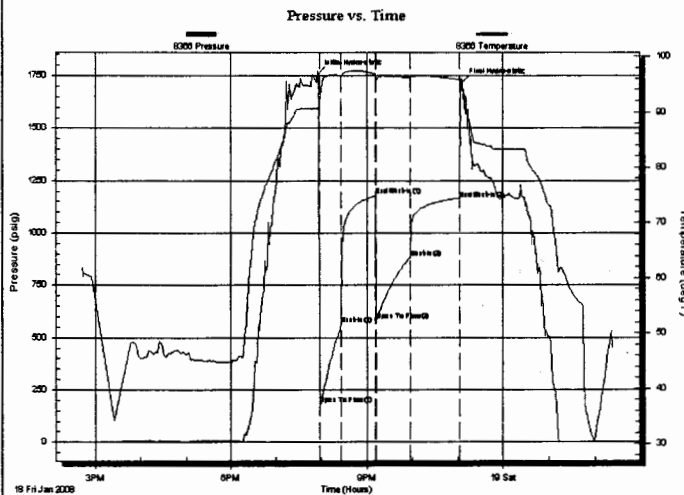
Serial #: 8366

Inside

Press@RunDepth: 882.16 psig @ 3498.00 ft (KB)
Start Date: 2008.01.18 End Date: 2008.01.19
Start Time: 14:43:13 End Time: 02:23:08

Capacity: 7000.00 psig
Last Calib.: 2008.01.19
Time On Btm: 2008.01.18 @ 19:56:08
Time Off Btm: 2008.01.18 @ 23:06:38

TEST COMMENT: IF Very strong blow BOB in 40 sec. (mud holding)
ISI Bled off Strong blow back BOB in 8 1/2 min.
FF BOB blow (called Jake forgot to bleed off before open bled off after about 7 min. blow built to 9 1



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.91	90.55	Initial Hydro-static
1	181.42	90.13	Open To Flow (1)
30	561.52	96.55	Shut-In (1)
76	1177.42	96.81	End Shut-In (1)
76	579.81	96.47	Open To Flow (2)
121	882.16	96.19	Shut-In (2)
187	1162.87	95.82	End Shut-In (2)
191	1718.40	93.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GMO 45%O 43%M 12%G	0.15
2710.00	GO 85%O 15%G	36.92
0.00	34 API @ 30 deg	0.00
0.00	corrected gravity = 37	0.00

Gas Rates

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

IA Operating Inc

Ella Mae #34-1

9915 W 21st Street N
Wichita KS 67205

34 2S 24W Norton KS

Job Ticket: 31527

DST#: 1

ATTN: Randy Kilian

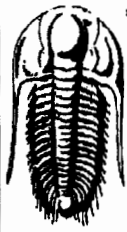
Test Start: 2008.01.18 @ 14:43:08

Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 47.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3497.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	3767.00 ft			
Interval between Packers:	270.00 ft			
Tool Length:	290.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3482.00	
Hydraulic tool	5.00			3487.00	
Packer	5.00			3492.00	20.00 Bottom Of Top Packer
Packer	5.00			3497.00	
Stubb	1.00			3498.00	
Recorder	0.00	8366	Inside	3498.00	
Recorder	0.00	6672	Inside	3498.00	
Perforations	25.00			3523.00	
Blank Off Sub	1.00			3524.00	
Blank Spacing	5.00			3529.00	
Packer - Shale	0.00			3529.00	
Stubb	1.00			3530.00	
Change Over Sub	1.00			3531.00	
Drill Pipe	215.00			3746.00	
Change Over Sub	1.00			3747.00	
Perforations	17.00			3764.00	
Recorder	0.00	7457	Inside	3764.00	
Bullnose	3.00			3767.00	270.00 Bottom Packers & Anchor

Total Tool Length: 290.00



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FLUID SUMMARY

IA Operating Inc

Ella Mae #34-1

9915 W 21st Street N
Wichita KS 67205

34 2S 24W Norton KS

Job Ticket: 31527

DST#: 1

ATTN: Randy Kilian

Test Start: 2008.01.18 @ 14:43:08

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GMO 45%O 43%M 12%G	0.148
2710.00	GO 85%O 15%G	36.921
0.00	34 API @ 30 deg	0.000
0.00	corrected gravity = 37	0.000

Total Length: 2740.00 ft

Total Volume: 37.069 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

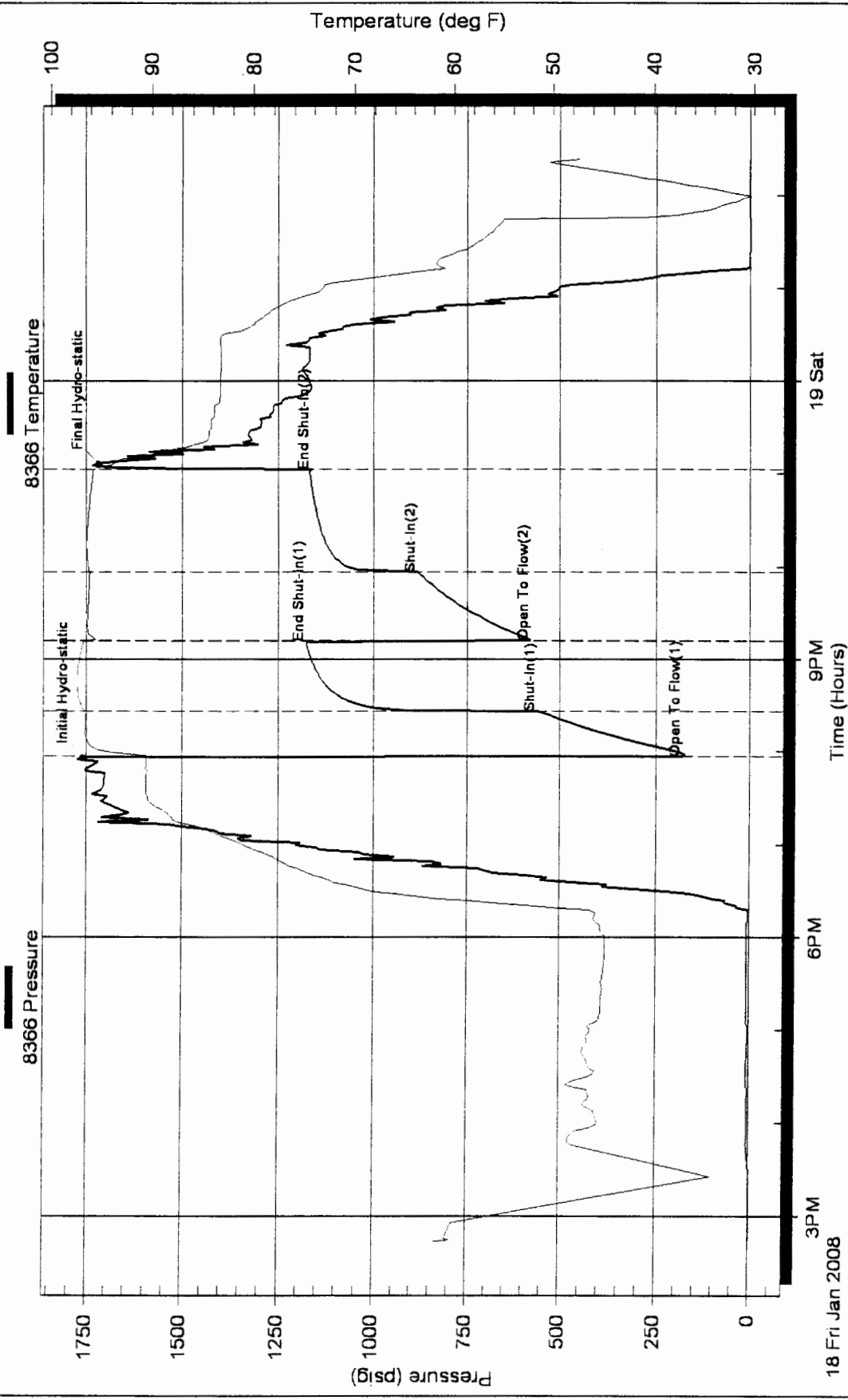
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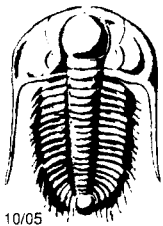
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

31527

JAN 22 2008

Test Ticket

Well Name & No. Elle Mae #34-1 Test No. 1 Date 1-18-08
 Company IA Operating Inc. Zone Tested LKC "C"
 Address 9915 W. 21st Street N Wichita KS 67205 Elevation 2485 KB 2480 GL
 Co. Rep / Geo. Randy Kilian Rig Murfin #16
 Location: Sec. 34 Twp. 2S Rge. 24W Co. Norton State KS
 Comment: Problems with shut in tool (worked on from 16:15-16:45) Release date / time:
went to town after different tool back on location at 18:00 Dropped Bar & Reversed out

Interval Tested 3497-3529 Initial Str Wt./Lbs. 60000 Unseated Str Wt./Lbs. 66000
 Anchor Length 32' 238' tail Wt. Set Lbs. 3000 Wt. Pulled Loose/Lbs. 75000
 Top Packer Depth 3492-3497 Tool Weight 3500
 Bottom Packer Depth 3529 Hole Size 7 7/8" yes Rubber Size 6 3/4" yes
 Total Depth 3767 Wt. Pipe Run 0 Drill Collar Run 150
 Mud Wt. 9.2 LCM 1# Vis. 55 WL 9.2 Drill Pipe Size 4 1/2 x 7 Ft. Run 3359
 Flow Description IF: Very strong blow, BOB 40 sec (mud holding)
ISI: Bled off, BOB 8 1/2 min

IF: BOB blow (called picked to take for got to bleed off before open - bled off after open - about 7 min, blow built to 9 1/2" in 10 min)
ISI: Bled off, weak blow built to 6" (then died back to 5")

Recovery - Total Feet 2740 GIP 425 Ft. in DC 150 Ft. in DP 2590
 Sec. 2710 Feet of Gassy Oil 15% gas 95% oil — %water — %mud
 Sec. 30 Feet of Gassy Muddy Oil 12% gas 45% oil — %water 43% mud
 Sec. — Feet of — %gas %oil %water %mud
 Sec. — Feet of — %gas %oil %water %mud
 Sec. — Feet of — %gas %oil %water %mud
 HT 96 °F Gravity 34 °API D @ 30 °F Corrected Gravity 37 °API
 N — @ — °F Chlorides — ppm Recovery — Chlorides 1000 ppm System

AK-1	Alpine	Recorder No.	Test
Initial Hydrostatic Mud	1758 PSI	8366	1100
First Initial Flow Pressure	174 PSI	(depth) 3498	Jars —
First Final Flow Pressure	562 PSI	Recorder No. 6672	Safety Jt. —
Initial Shut-In Pressure	1177 PSI	(depth) 3498	Circ Sub <u>Dropped Bar</u> 50
Second Initial Flow Pressure	580 PSI	Recorder No. 7457 (mech.)	Sampler —
Second Final Flow Pressure	882 PSI	(depth) 3764	Straddle <u>*</u> 600
Final Shut-In Pressure	1167 PSI	Initial Opening 30	Ext. Packer —
Final Hydrostatic Mud	1718 PSI	Initial Shut-In 45	Shale Packer <u>*</u>
		Final Flow 45	Ruined Packer —
		Final Shut-In 60	Mileage <u>64 RT</u> 80

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

Customer Representative James D. Miller

T-On Location

T-Started

T-Open

T-Pulled

T-Out

13:30

14:43:08

19:58:08

23:02:08

Test X 1100

Jars —

Safety Jt. —

Circ Sub Dropped Bar 50

Sampler —

Straddle * 600

Ext. Packer —

Shale Packer *

Ruined Packer —

Mileage 64 RT 80

Sub Total:

Std. By

Acc. Chg:

Other:

Total: 81830

CHART PAGE

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

1-18-08
IA operating Ins,
Ella mbe #34-1
LK "C"

