

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Caerus Kansas LLC

PO Box 1378
Hays KS 67601

ATTN: Brian Karlin

Waters #30-42

30-24s-14w

Job Ticket: 37495

DST#: 1

Test Start: 2011.06.23 @ 07:09:17

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 10:01:32

Time Test Ended: 15:34:17

Test Type: **Conventional Straddle**

Tester: **Chris Staats**

Unit No: **34**

Interval: **4315.00 ft (KB) To 4400.00 ft (KB) (TVD)**

Total Depth: **4450.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1996.00 ft (KB)**

1987.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: **8166**

Outside

Press@RunDepth: **791.35 psig @ 4316.00 ft (KB)**

Start Date: **2011.06.23**

End Date:

2011.06.23

Start Time: **07:09:22**

End Time:

15:34:16

Capacity: **8000.00 psig**

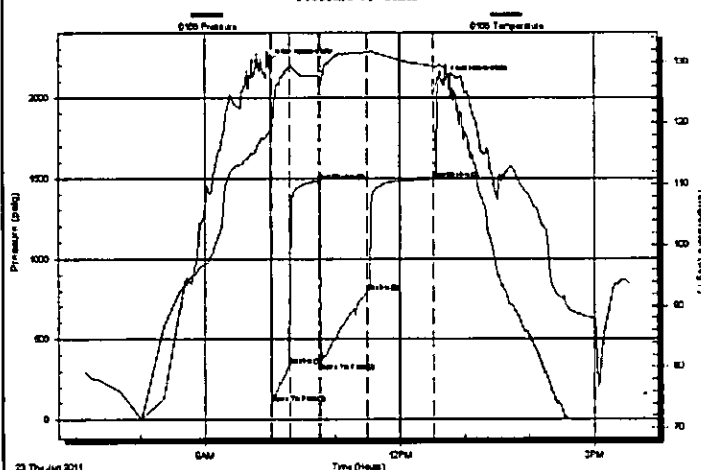
Last Calib.: **2011.06.23**

Time On Btm: **2011.06.23 @ 09:58:32**

Time Off Btm: **2011.06.23 @ 12:41:32**

TEST COMMENT: IF: Strong blow BOB 2 min
IS: Weak blow back
FF: Strong blow BOB 3 min
FSI: No blow back

Pressure vs Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2218.28	118.51	Initial Hydro-static
3	105.47	118.58	Open To Flow (1)
19	331.94	129.14	Shut-In(1)
46	1482.71	127.67	End Shut-In(1)
49	350.29	127.28	Open To Flow (2)
91	791.35	131.61	Shut-In(2)
152	1493.67	129.25	End Shut-In(2)
163	2109.72	128.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1380.00	G M W OIL Spots 2% oil 30% mud 68% w	18.82
960.00	w m 10% mud 90% water	13.47

Gas Rates

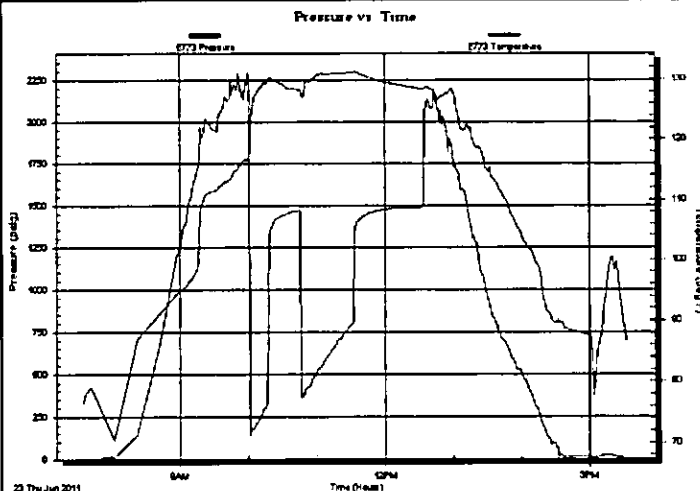
Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
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Test Start: 2011.06.23 @ 07:09:17

KB to GR/CF: 9.00 ft

TEST COMMENT: IF: Strong blow BOB 2 min
IS: Weak blow back
FF: Strong blow BOB 3 min
FS: No blow back



Annotation

Length (ft)	Description	Volume (bbl)
1380.00	G M W OIL Spots 2% oil 30% mud 68%	18.82
960.00	w m 10% mud 90% w ater	13.47

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

Waters #30-42

PO Box 1378
Hays KS 67601

30-24s-14w

Job Ticket: 37495

DST#: 1

ATTN: Brian Karlin

Test Start: 2011.06.23 @ 07:09:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1380.00	G M W OIL Spots 2% oil 30% mud 68% w ater	18.820
960.00	w m 10% mud 90% w ater	13.466

Total Length: 2340.00 ft

Total Volume: 32.286 bbl

Num Fluid Samples: 0

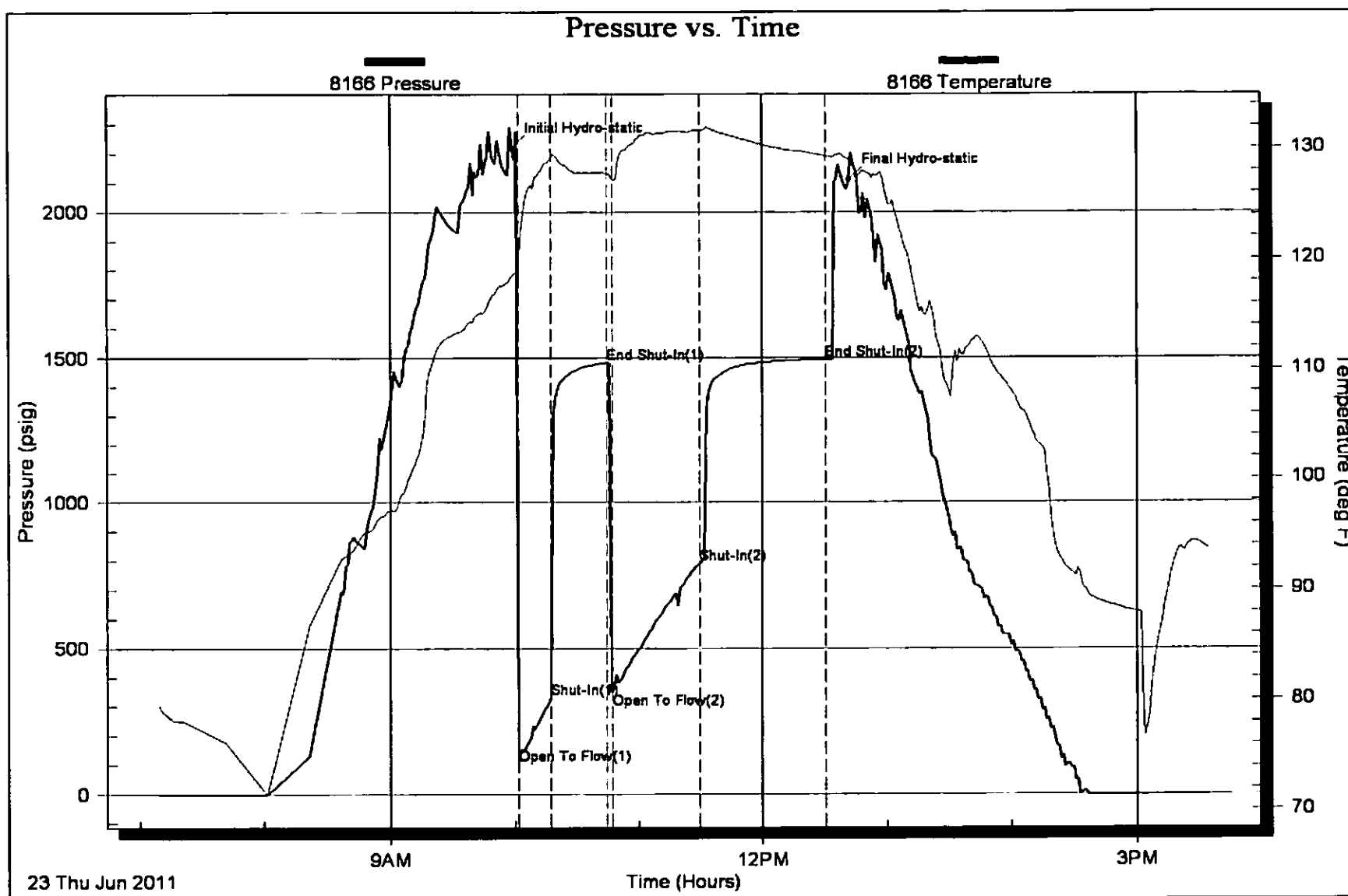
Num Gas Bombs: 0

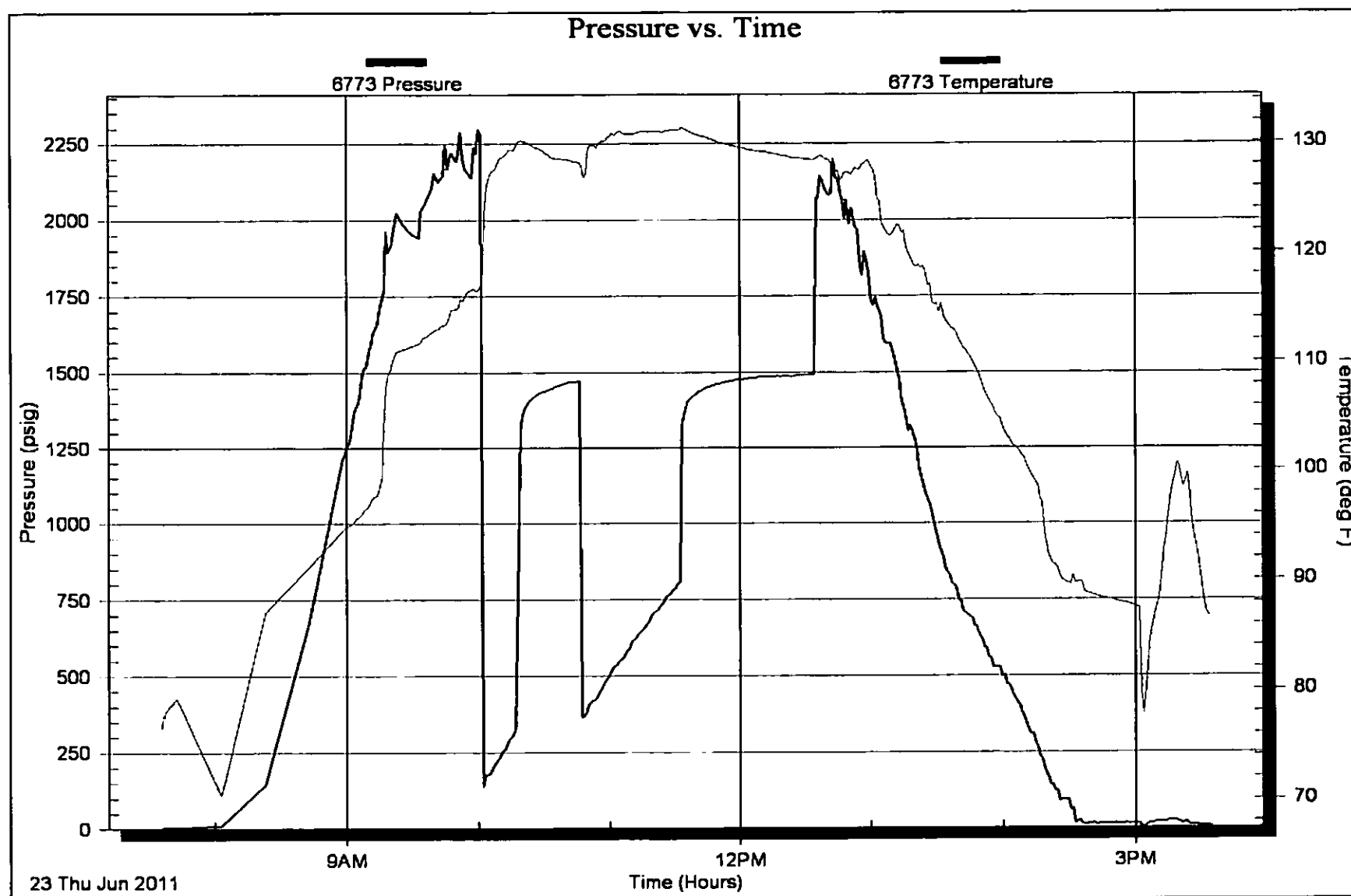
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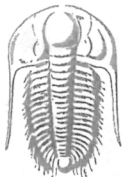
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED

JUN 28 2011

Test Ticket

NO. 37495 15945

Well Name & No. Caerus Kansas LLC water #30-421 Test No. 6-23-11
 Company Caerus Kansas LLC Elevation KB GL GL
 Address PO Box 1378 Hays KS 67601
 Co. Rep / Geo. Brian Karlin / Herb Rig Maverick DRLs #108
 Location: Sec. 30 Twp. 24S Rge. 14W Co. STAFFORD State KS

Interval Tested 4315 - 4400 Zone Tested ARBuckle
 Anchor Length 85 Drill Pipe Run 4301 Mud Wt. 9.5
 Top Packer Depth 4310 Drill Collars Run 59 Vis 54
 Bottom Packer Depth 4400 Wt. Pipe Run 0 WL 10.2
 Total Depth 4450 Chlorides 4000 ppm System LCM 1#
 Blow Description IF: STRONG blow BOB 2 min
ISI: Weak Surface blow
FF: STRONG blow BOB 3 min
FST: NO blow back

Rec <u>1380'</u>	Feet of <u>GM, W OIL SPOTS</u>	%gas <u>2</u>	%oil <u>68</u>	%water <u>30</u>	%mud
Rec <u>960</u>	Feet of <u>WATER, mod</u>	%gas	%oil <u>90</u>	%water <u>10</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2340 BHT 129 Gravity 1.1 API RW 26 °F Chlorides 11.000 ppm

(A) Initial Hydrostatic 2218 ☒ Test 1225 T-On Location 4:15
 (B) First Initial Flow 105 ☒ Jars 250 T-Started 7:09
 (C) First Final Flow 331 ☒ Safety Joint 75 T-Open 10:01
 (D) Initial Shut-In 1482 ☐ Circ Sub 1 1/4 hrs 125 T-Pulled 00:45
 (E) Second Initial Flow 350 ☒ Hourly Standby 50 miles 70 T-Out 15:30
 (F) Second Final Flow 791 ☒ Mileage 50 miles 70 Comments
 (G) Final Shut-In 1493 ☐ Sampler 600
 (H) Final Hydrostatic 2109 ☒ Straddle 600

Initial Open 15 ☐ Shale Packer 600 ☐ Ruined Shale Packer
 Initial Shut-In 30 ☒ Extra Packer 600 ☐ Ruined Packer
 Final Flow 45 ☒ Extra Recorder 600 ☐ Extra Copies
 Final Shut-In 60 ☐ Day Standby 600 Sub Total 8
 Sub Total 2345 ☐ Accessibility 600 Total 2345

Approved By Brian Karlin Our Representative Ch. [Signature]
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