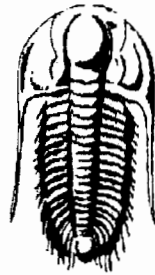


15-051-25650



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 NW 112th St
Oklahoma City OK 73162

ATTN: Tisha Love

14 15 18 Ellis KS

Graf # 11

Start Date: 2007.06.23 @ 12:06:04

End Date: 2007.06.23 @ 17:39:34

Job Ticket #: 28018 DST #: 1

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

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 14 2007

Printed: 2007.06.25 @ 13:47:18 Page 1
WICHITA, KS

Castelli Exploration Inc

Graf # 11

14 15 18 Ellis KS

DST # 1

Tor.-L.Kc.-A

2007.06.23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castelli Exploration Inc

6908 NW 112th St
Oklahoma City OK 73162

ATTN: Tisha Love

Graf # 11

14 15 18 Ellis KS

Job Ticket: 28018

DST#: 1

Test Start: 2007.06.23 @ 12:06:04

GENERAL INFORMATION:

Formation: **Tor.-L.Kc.-A**

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

Time Tool Opened: 14:00:04

Time Test Ended: 17:39:34

Test Type: **Inflate Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3226.00 ft (KB) To 3295.00 ft (KB) (TVD)**

Total Depth: **3295.00 ft (KB) (TVD)**

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

Reference Elevations: **1997.00 ft (KB)**

1992.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6669 Inside

Press@RunDepth: **25.95 psig @ 3230.00 ft (KB)**

Start Date: **2007.06.23**

End Date:

2007.06.23

Start Time: **12:06:09**

End Time:

17:39:33

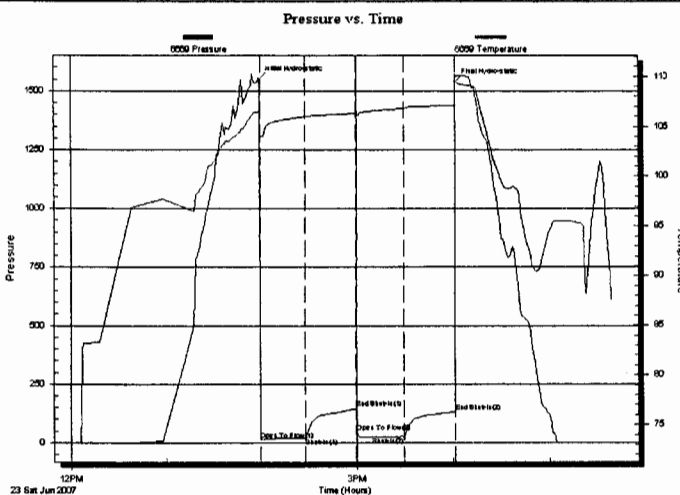
Capacity: **7000.00 psig**

Last Calib.: **2007.06.23**

Time On Btm: **2007.06.23 @ 13:59:34**

Time Off Btm: **2007.06.23 @ 16:01:34**

TEST COMMENT: IF Strong BOB 4 min.
ISI Dead
FF Strong BOB 1 min.
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1549.63	106.50	Initial Hydro-static
1	12.46	103.98	Open To Flow (1)
29	21.61	105.97	Shut-In(1)
60	145.23	106.29	End Shut-In(1)
61	42.69	106.05	Open To Flow(2)
90	25.95	106.80	Shut-In(2)
122	132.50	107.08	End Shut-In(2)
122	1537.60	110.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	D.Mud	0.29
0.00	1320 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration Inc

Graf # 11

6908 NW 112th St
Oklahoma City OK 73162

14 15 18 Ellis KS

Job Ticket: 28018

DST#: 1

ATTN: Tisha Love

Test Start: 2007.06.23 @ 12:06:04

Tool Information

Drill Pipe:	Length: 3199.00 ft	Diameter: 3.80 inches	Volume: 44.87 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
		Total Volume:	45.02 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3226.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	89.00 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			3207.00	
Shut In Tool	5.00			3212.00	
Hydraulic tool	5.00			3217.00	
Packer	4.00			3221.00	20.00 Bottom Of Top Packer
Packer	5.00			3226.00	
Stubb	1.00			3227.00	
Perforations	2.00			3229.00	
Bullnose	1.00			3230.00	
Recorder	0.00	6669	Inside	3230.00	
Blank Spacing	31.00			3261.00	
Change Over Sub	1.00			3262.00	
Recorder	0.00	11084	Outside	3262.00	
Perforations	30.00			3292.00	
Bullnose	3.00			3295.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exploration Inc

Graf # 11

6908 NW 112th St
Oklahoma City OK 73162

14 15 18 Ellis KS

Job Ticket: 28018

DST#: 1

ATTN: Tisha Love

Test Start: 2007.06.23 @ 12:06:04

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	D.Mud	0.288
0.00	1320 GIP	0.000

Total Length: 40.00 ft

Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

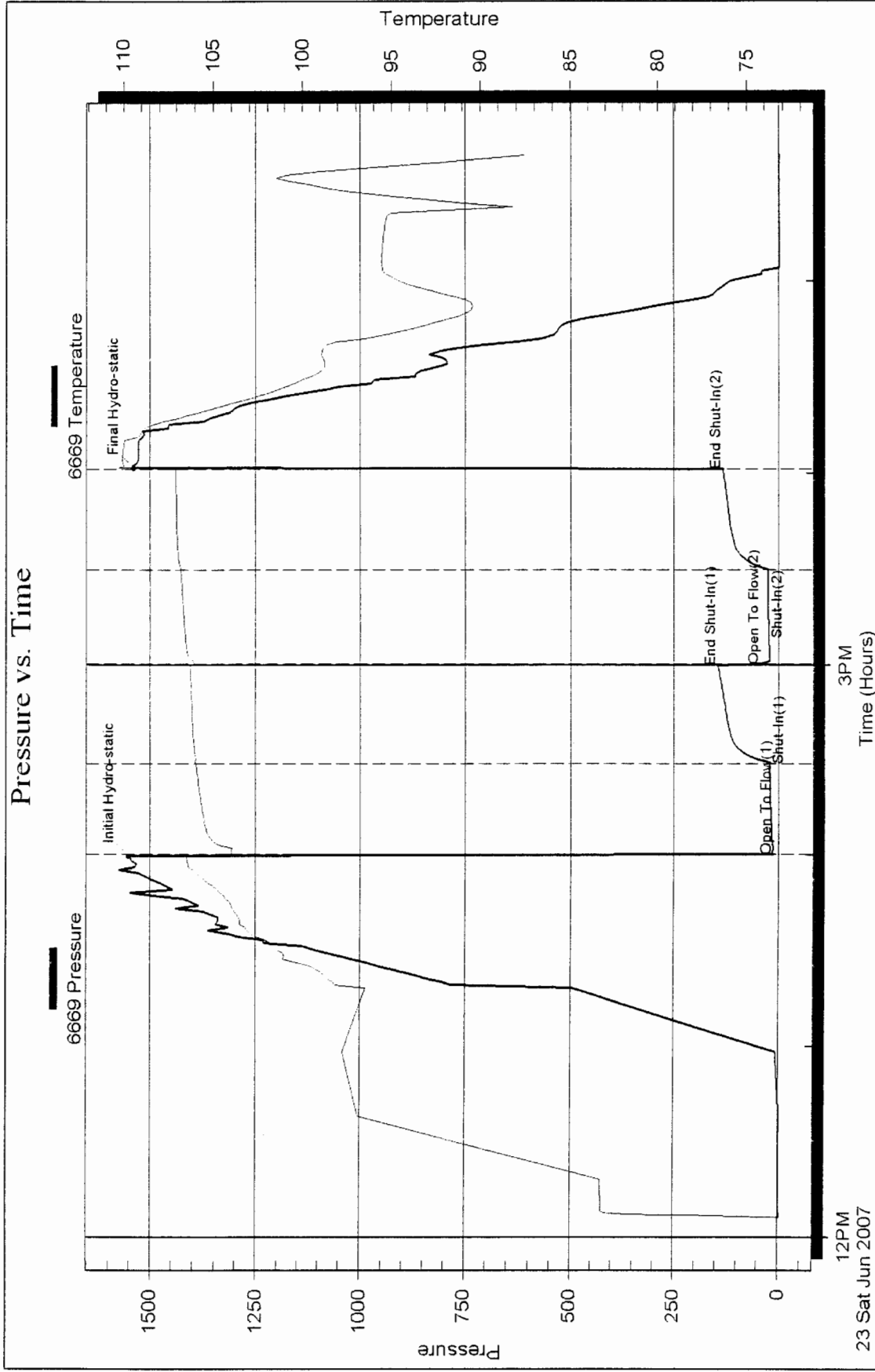
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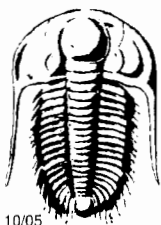
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRIOLITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28013

Test Ticket

Vell Name & No. GRAF #11 Test No. #1 Date 6-23-07
 Company CASTELL EXPLORATION, INC Zone Tested TCR-LK-A
 Address 6908 NW 112 ST, OKLAHOMA CITY, OK 73162 Elevation 1997 KB 1992 GL
 Co. Rep / Geo. JASON ALM Rig MURFIN #16
 Location: Sec. 14 Twp. 15S Rge. 18W Co. ELLIS State KS
 Comment: _____ Release date / time: _____

Interval Tested 3226 To 3295 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length 69' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3221 Tool Weight 2,200
 Bottom Packer Depth 3226 Hole Size 7 7/8" ☒ Rubber Size 6 3/4" ☒
 Total Depth 3295 Wt. Pipe Run C Drill Collar Run 30'
 Mud Wt. 9.0 LCM 13 1/4" Vis. 53 WL 88 Drill Pipe Size 4 1/2 XH Ft. Run 3199
 Flow Description FF-STRONG R.C.B. 4-MIN FSI-DEAD
FF-STRONG R.C.B. 1-MIN FSI-

Recovery - Total Feet 40 GIP 1320' Ft. in DC 30 Ft. in DP 10'
 %C. 40 Feet of Drill Mud %gas %oil %water %mud
 %C. Feet of %gas %oil %water %mud
 %C. Feet of %gas %oil %water %mud
 %C. Feet of %gas %oil %water %mud
 %C. Feet of %gas %oil %water %mud
 HT 107 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 N _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

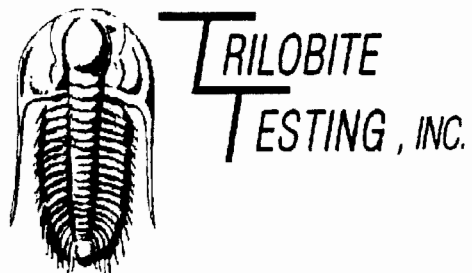
Initial Hydrostatic Mud	AK-1	Alpine	1549 PSI	Recorder No.	<u>4669</u>	Test	☒	<u>1100</u>
First Initial Flow Pressure			<u>12</u> PSI	(depth)	<u>3230</u>	Jars		
First Final Flow Pressure			<u>31</u> PSI	Recorder No.	<u>11084</u>	Safety Jt.		
Initial Shut-In Pressure			<u>14.5</u> PSI	(depth)	<u>3262</u>	Circ Sub		
Second Initial Flow Pressure			<u>42</u> PSI	Recorder No.		Sampler		
Second Final Flow Pressure			<u>25</u> PSI	(depth)		Straddle		
Final Shut-In Pressure			<u>132</u> PSI	Initial Opening	<u>30</u>	Ext. Packer		
Final Hydrostatic Mud			<u>1537</u> PSI	Initial Shut-In	<u>30</u>	Shale Packer		

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 _____

Our Representative John F. Schmitt

Final Flow 30
 Final Shut-In 30
 T-On Location 11:00
 T-Started 12:06
 T-Open 14:00
 T-Pulled 16:01
 T-Out 17:39
 Mileage RT-21 26.25
 Sub Total: _____
 Std. By: _____
 Acc. Chg: _____
 Other: _____
 Total: \$1120.00



DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 NW 112th St
Oklahoma City OK 73162

ATTN: Tisha Love

14 15 18 Ellis KS

Graf # 11

Start Date: 2007.06.24 @ 22:59:19

End Date: 2007.06.25 @ 05:04:43

Job Ticket #: 28853

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Castelli Exploration Inc

Graf # 11

14 15 18 Ellis KS

DST # 2

Arbuckle

2007.06.24



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Castelli Exploration Inc

6908 NW 112th St
Oklahoma City OK 73162

ATTN: Tisha Love

Graf # 11

14 15 18 Ellis KS

Job Ticket: 28853

DST#: 2

Test Start: 2007.06.24 @ 22:59:19

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:20:14

Time Test Ended: 05:04:43

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 28

Interval: **3574.00 ft (KB) To 3582.00 ft (KB) (TVD)**

Total Depth: 3629.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1997.00 ft (KB)

1992.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753 Inside

Press@RunDepth: 548.64 psig @ 3575.01 ft (KB)

Start Date: 2007.06.24

End Date:

2007.06.25

Start Time: 22:59:19

End Time:

05:04:43

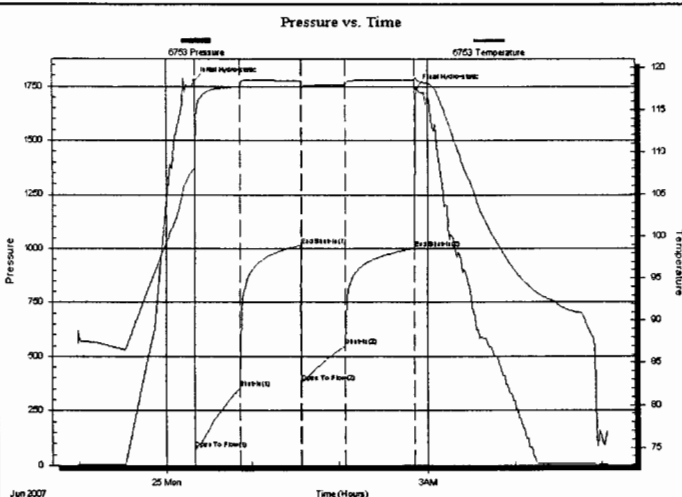
Capacity: 7000.00 psig

Last Calib.: 2007.06.25

Time On Btm: 2007.06.25 @ 00:19:44

Time Off Btm: 2007.06.25 @ 02:52:14

TEST COMMENT: IFP Wk to strg in 18 min
FFP Strg bl in 3 min
ISIP Surface bl bk
FSIP 1/4 " bl bk Time 30 45 30 45



PRESSURE SUMMARY

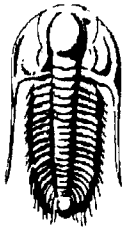
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1776.67	108.06	Initial Hydro-static
1	76.52	109.64	Open To Flow (1)
32	353.87	117.71	Shut-In (1)
75	1015.22	118.34	End Shut-In (1)
75	380.68	117.37	Open To Flow (2)
105	548.64	117.96	Shut-In (2)
152	1001.05	118.43	End Shut-In (2)
153	1742.07	118.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1020.00	Water RW .21@71F	14.03
90.00	SOCMW 4%O 40%M 56%W	1.26
60.00	CO	0.84
0.00	90' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration Inc

Graf # 11

6908 NW 112th St
Oklahoma City OK 73162

14 15 18 Ellis KS

Job Ticket: 28853

DST#: 2

ATTN: Tisha Love

Test Start: 2007.06.24 @ 22:59:19

Tool Information

Drill Pipe: Length: 3543.00 ft Diameter: 3.80 inches Volume: 49.70 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 30.00 ft Diameter: 2.25 inches Volume: 0.15 bbl
Total Volume: 49.85 bbl
Drill Pipe Above KB: 20.00 ft
Depth to Top Packer: 3574.00 ft
Depth to Bottom Packer: 3582.01 ft
Interval between Packers: 8.01 ft
Tool Length: 79.02 ft
Number of Packers: 3 Diameter: 6.75 inches

Tool Weight: 2200.00 lb
Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 55000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 47000.00 lb
Final 50000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3554.00	
Shut In Tool	5.00			3559.00	
Hydraulic tool	5.00			3564.00	
Packer	5.00			3569.00	21.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Stubb	1.00			3575.00	
Recorder	0.01	6753	Inside	3575.01	
Perforations	3.00			3578.01	
Blank Off Sub	1.00			3579.01	
Blank Spacing	3.00			3582.01	8.01 Tool Interval
Packer	5.00			3587.01	
Blank Spacing	31.00			3618.01	
Recorder	0.01	13534	Below	3618.02	
Perforations	11.00			3629.02	
Bullnose	3.00			3632.02	50.01 Bottom Packers & Anchor

Total Tool Length: 79.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exploration Inc

Graf # 11

6908 NW 112th St
Oklahoma City OK 73162

14 15 18 Ellis KS

Job Ticket: 28853

DST#: 2

ATTN: Tisha Love

Test Start: 2007.06.24 @ 22:59:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.13 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

32 deg API

Water Salinity:

32000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1020.00	Water RW .21@71F	14.035
90.00	SOCMW 4%O 40%M 56%W	1.262
60.00	CO	0.842
0.00	90' GIP	0.000

Total Length: 1170.00 ft

Total Volume: 16.139 bbl

Num Fluid Samples: 0

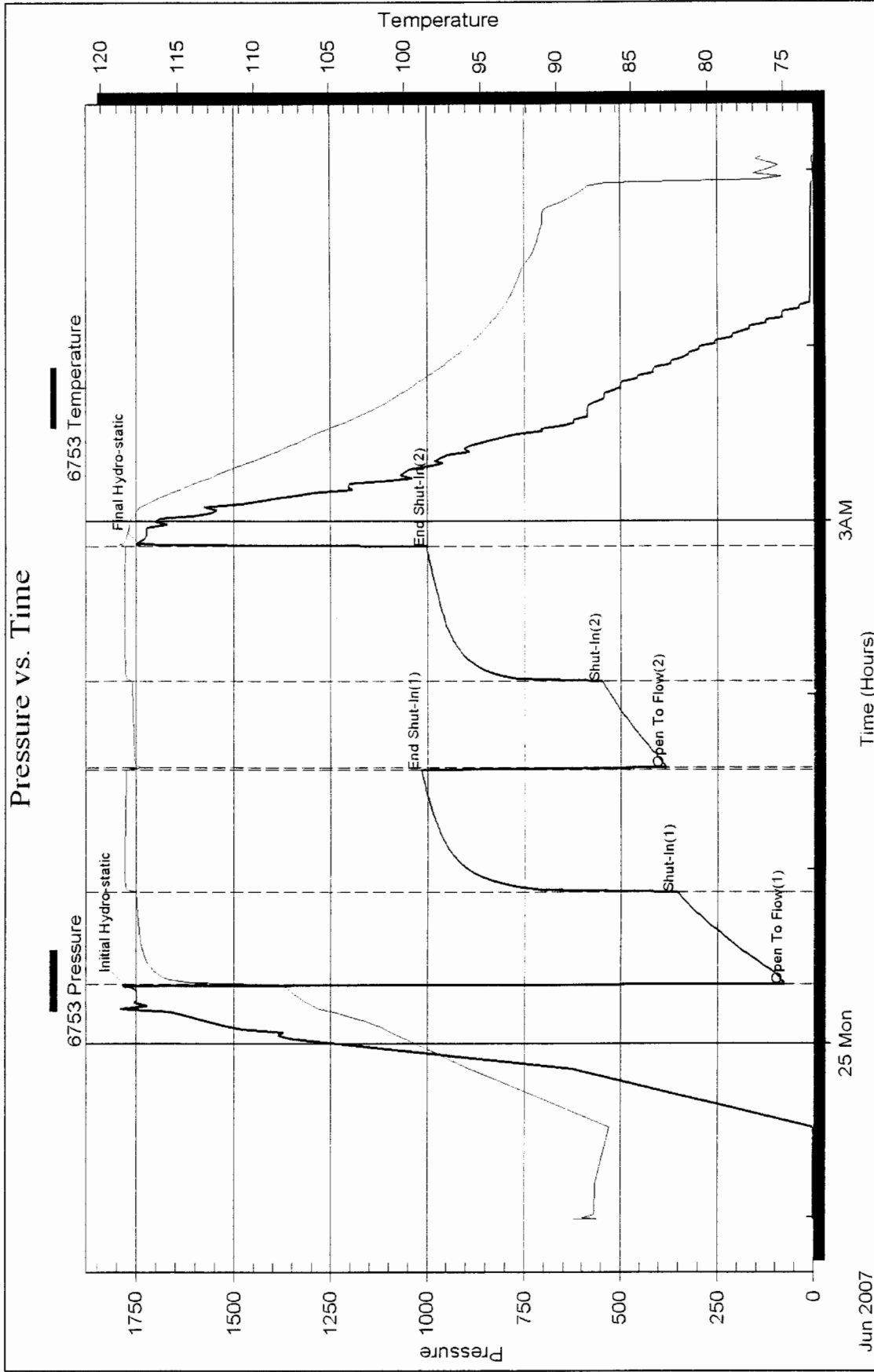
Num Gas Bombs: 0

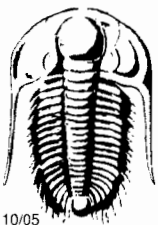
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRIOLITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

28853

Test Ticket

Vell Name & No. GRAF #11 Test No. 2 Date 6-24-07
 Company CASTELL, Exploration Inc Zone Tested Arbuckle
 Address 6908 NW 112th ST OKCITY, OK 73162 Elevation 1997 KB 1992 GL
 Co. Rep / Geo. AL Downing Rig Murfin 16
 Location: Sec. 14 Twp. 15S Rge. 18W Co. ELLIS State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3574-3582 Initial Str Wt./Lbs. 47000 Unseated Str Wt./Lbs. 50000
 Anchor Length 8 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
 Top Packer Depth 3574-3569 Tool Weight 2200
 Bottom Packer Depth 3582 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3629 Wt. Pipe Run — Drill Collar Run 30
 Mud Wt. 9.2 LCM 1 1/2# Vis. 48 WL 9.2 Drill Pipe Size 4 1/2 XH Ft. Run 3543
 Blow Description IFP - WEAK TO STRONG IN 18 MIN
FFP - STRONG BLOW IN 3 MIN
ISIP - SURFACE BLOW BACK
FSIP - 1/4" BLOW BACK

Recovery - Total Feet 1170 GIP 90 Ft. in DC 30 Ft. in DP 1140
 %C. 60 Feet of CO %gas %oil %water %mud
 %C. 90 Feet of SOC MU %gas 4 %oil 56 %water 40 %mud
 %C. 1020 Feet of WATER %gas %oil %water %mud
 %C. _____ Feet of _____ %gas %oil %water %mud
 %C. _____ Feet of _____ %gas %oil %water %mud
 %C. _____ Feet of _____ %gas %oil %water %mud
 API 118 °F Gravity 33 °API D @ 70 °F Corrected Gravity 32 °API
 N .21 @ 71 °F Chlorides 32000 ppm Recovery _____ Chlorides 3000 ppm System

	AK-1	Alpine	Recorder No.	Test
Initial Hydrostatic Mud	<u>1747</u> PSI	<u>6253</u>	<u>1100</u>	
First Initial Flow Pressure	<u>76</u> PSI (depth)	<u>3575</u>		Jars
First Final Flow Pressure	<u>353</u> PSI	<u>13534</u>		Safety Jt.
Initial Shut-In Pressure	<u>1015</u> PSI (depth)	<u>3613</u>		Circ Sub
Second Initial Flow Pressure	<u>380</u> PSI			Sampler
Second Final Flow Pressure	<u>548</u> PSI (depth)			Straddle <u>200</u>
Final Shut-In Pressure	<u>1001</u> PSI	<u>30</u>		Ext. Packer
Final Hydrostatic Mud	<u>1723</u> PSI	<u>45</u>		Shale Packer

TRIOLOTE 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 _____

Junior Representative RAY SCHWAGER Thank you

T-On Location

T-Started 2259
 T-Open 0020
 T-Pulled 0250
 T-Out 0504

Mileage 24 RT 26.25
 Sub Total: _____
 Std. By: _____
 Acc. Chg: _____
 Other: _____
 Total: 178.25

CHART PAGE

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

13534
OST #12
CASTELL

