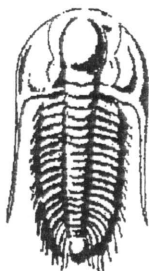


16-33-16W
15-033-21465



**TRILOBITE
TESTING, INC.**

**KCC
JUL 24 2006
CONFIDENTIAL**

DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**
6908 N W 112th St
Oklahoma City Okla 73162

ATTN: Tom Castelli
1633 16W
1633 16 Comanche KS

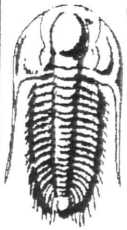
Donna Marie # 2-16

Start Date: 2006.04.09 @ 17:08:42
End Date: 2006.04.10 @ 02:30:12
Job Ticket #: 24772 DST #: 1

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

**RECEIVED
JUL 26 2006
KCC WICHITA**

Castelli Exploration Inc
Donna Marie # 2-16
1633 16 Comanche KS
DST # 1
Miss
2006.04.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castelli Exploration Inc
6908 N W 112th St
Oklahoma City Okla 73162

ATTN: Tom Castelli

Donna Marie # 2-16
1633 16 Comanche KS
Job Ticket: 24772 DST#: 1
Test Start: 2006.04.09 @ 17:08:42

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:28:57
Time Test Ended: 02:30:12

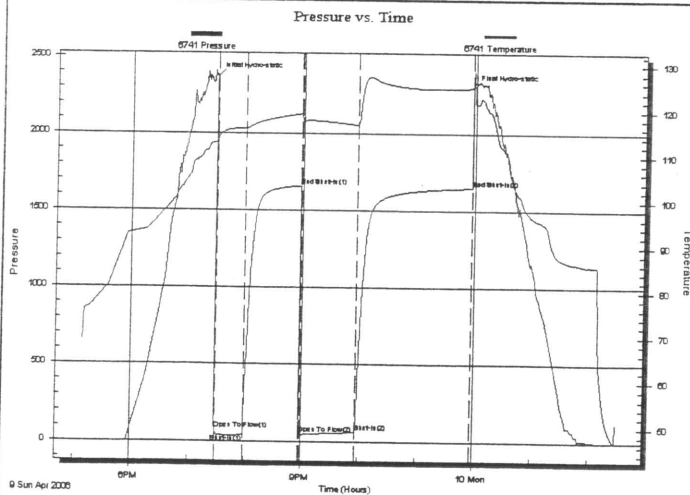
Interval: **4875.00 ft (KB) To 4924.00 ft (KB) (TVD)**
Total Depth: 4924.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Reference Elevations: 1731.00 ft (KB)
ft (CF)
KB to GR/CF: ft

Serial #: 6741 Inside
Press@RunDepth: 63.13 psig @ 4882.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2006.04.09 End Date: 2006.04.10 Last Calib.: 2006.04.10
Start Time: 17:08:44 End Time: 02:30:12 Time On Btm: 2006.04.09 @ 19:28:12
Time Off Btm: 2006.04.09 @ 23:56:57

TEST COMMENT: IF Strong B B in 1 min GTS in 11 min TSTM
FF Strong B B as soon as tool opened Gauged gas Gas sample taken
Times 30 60 60 120



PRESSURE SUMMARY

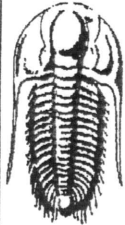
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2369.39	113.08	Initial Hydro-static
1	75.66	113.05	Open To Flow (1)
31	42.01	116.10	Shut-In(1)
89	1659.35	119.40	End Shut-In(1)
90	52.80	118.23	Open To Flow (2)
149	63.13	116.94	Shut-In(2)
269	1649.05	125.14	End Shut-In(2)
269	2300.80	126.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	Gsy Mud	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.00	29.19
Last Gas Rate	0.25	6.00	32.36
Max. Gas Rate	0.25	6.00	32.36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration Inc
6908 NW 112th St
Oklahoma City Okla 73162
ATTN: Tom Castelli

Donna Marie # 2-16
1633 16 Comanche KS
Job Ticket: 24772 **DST#: 1**
Test Start: 2006.04.09 @ 17:08:42

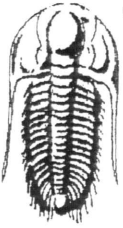
Tool Information

Drill Pipe:	Length: 4692.00 ft	Diameter: 3.80 inches	Volume: 65.82 bbl	Tool Weight: 2000.00 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: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 66.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4875.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4847.00	
Shut In Tool	5.00			4852.00	
Hydraulic tool	5.00			4857.00	
Jars	5.00			4862.00	
Safety Joint	3.00			4865.00	
Packer	5.00			4870.00	29.00 Bottom Of Top Packer
Packer	5.00			4875.00	
Stubb	1.00			4876.00	
Perforations	5.00			4881.00	
Change Over Sub	1.00			4882.00	
Recorder	0.00	6741	Inside	4882.00	
Drill Pipe	30.00			4912.00	
Change Over Sub	1.00			4913.00	
Perforations	8.00			4921.00	
Recorder	0.00	13254	Outside	4921.00	
Bullnose	3.00			4924.00	49.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exploration Inc

Donna Marie # 2-16

6908 N W 112th St
Oklahoma City Okla 73162

1633-16 Comanche KS

Job Ticket: 24772

DST#: 1

ATTN: Tom Castelli

Test Start: 2006.04.09 @ 17:08:42

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	Gsy Mud	0.836

Total Length: 170.00 ft

Total Volume: 0.836 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Castelli Exploration Inc
6908 N W 112th St
Oklahoma City Okla 73162
ATTN: Tom Castelli

Donna Marie # 2-16
1633 16 Comanche KS
Job Ticket: 24772 **DST#: 1**
Test Start: 2006.04.09 @ 17:08:42

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.25	4.00	29.19
2	5	0.25	4.00	29.19
2	10	0.25	6.00	32.36
2	15	0.25	4.00	29.19
2	20	0.25	4.00	29.19
2	25	0.25	5.00	30.78
2	30	0.25	5.00	30.78
2	35	0.25	6.00	32.36
2	40	0.25	6.00	32.36
2	45	0.25	6.00	32.36
2	50	0.25	6.00	32.36
2	55	0.25	6.00	32.36

Serial #: 6741

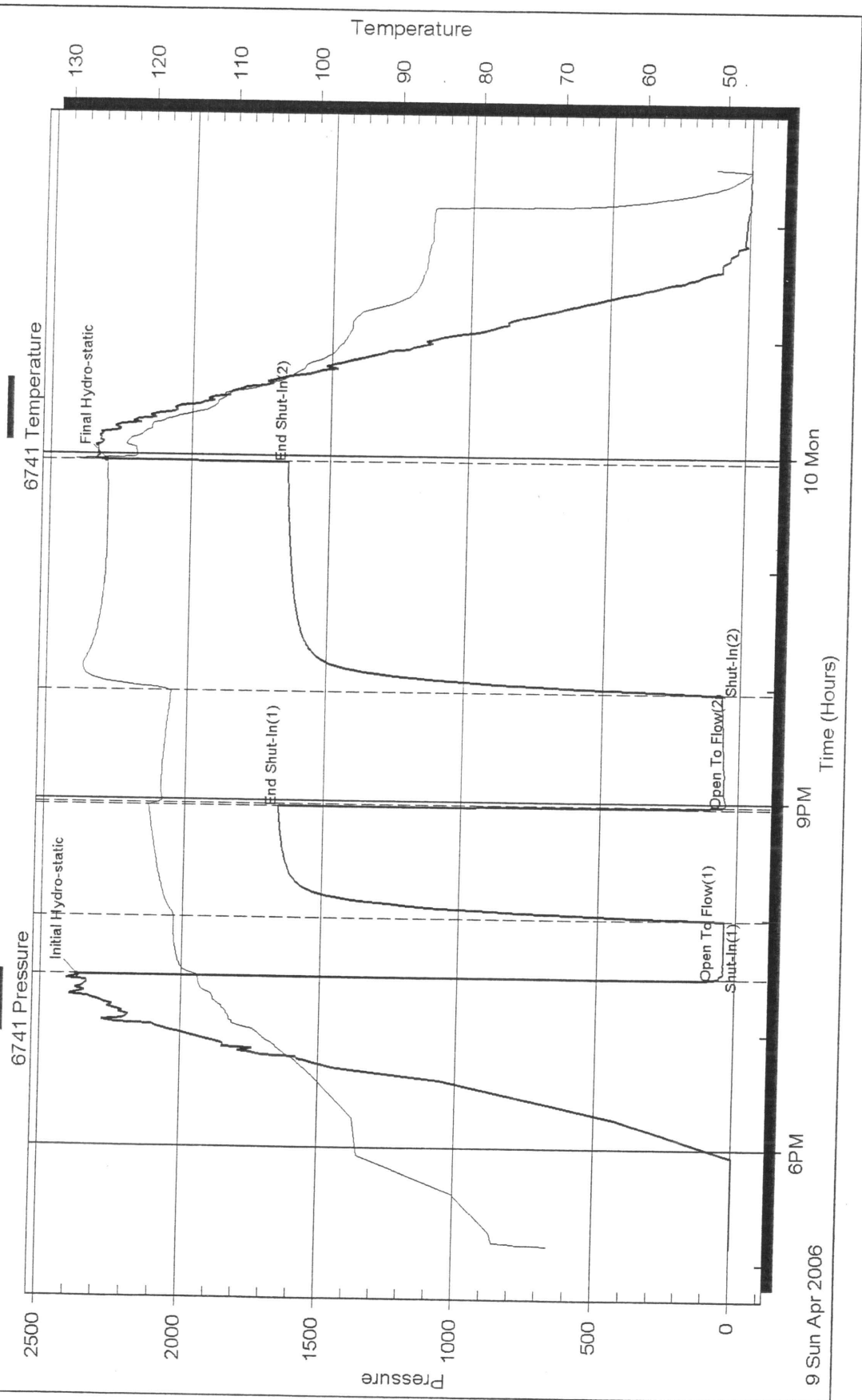
Inside

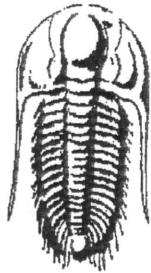
Castelli Exploration Inc

1633 16 Comanche KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 N W 112th St
Oklahoma City Okla 73162

ATTN: Tom Castelli

1633 16 Comanche KS

Donna Marie # 2-16

Start Date: 2006.04.10 @ 11:55:37

End Date: 2006.04.10 @ 20:19:52

Job Ticket #: 24773 DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castelli Exploration Inc
6908 N W 112th St
Oklahoma City Okla 73162
ATTN: Tom Castelli

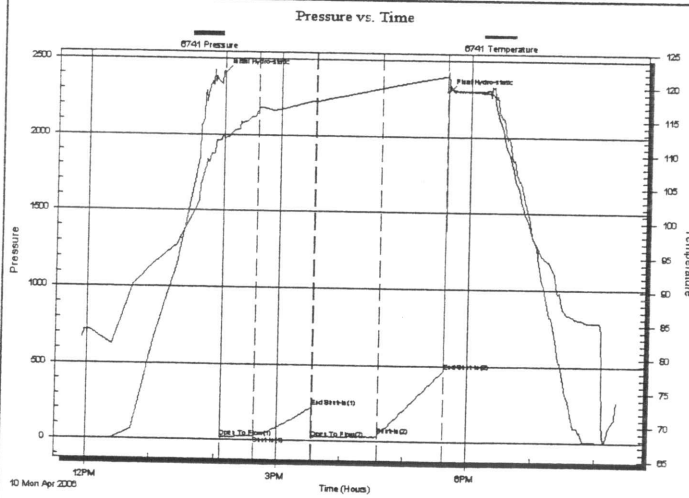
Donna Marie # 2-16
1633 16 Comanche KS
Job Ticket: 24773 **DST#:2**
Test Start: 2006.04.10 @ 11:55:37

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:05:37
Time Test Ended: 20:19:52
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Interval: **4929.00 ft (KB) To 4959.00 ft (KB) (TVD)**
Total Depth: 4924.00 ft (KB) (TVD)
Reference Elevations: 1731.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Good
ft (CF)
KB to GRVCF: ft

Serial #: 6741 Inside
Press@RunDepth: 39.45 psig @ 4930.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2006.04.10 End Date: 2006.04.10 Last Calib.: 2006.04.10
Start Time: 11:55:39 End Time: 20:19:52 Time On Btm: 2006.04.10 @ 14:05:22
Time Off Btm: 2006.04.10 @ 17:37:52

TEST COMMENT: IF Weak surging blow flushed tool weak 1/2' surging blow
FF Weak building to 3"
Times 30 60 60 60



PRESSURE SUMMARY

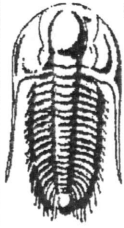
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2408.90	112.61	Initial Hydro-static
1	15.36	112.14	Open To Flow (1)
32	25.45	116.36	Shut-In(1)
88	219.23	117.85	End Shut-In(1)
88	16.74	117.80	Open To Flow (2)
151	39.45	119.77	Shut-In(2)
213	466.92	121.66	End Shut-In(2)
213	2293.95	122.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	DM	0.27

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Exploration Inc
6908 NW 112th St
Oklahoma City Okla 73162

ATTN: Tom Castelli

Donna Marie # 2-16
1633 16 Comanche KS
Job Ticket: 24773 **DST#: 2**
Test Start: 2006.04.10 @ 11:55:37

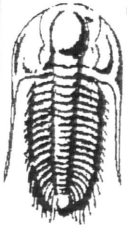
Tool Information

Drill Pipe:	Length: 4753.00 ft	Diameter: 3.80 inches	Volume: 66.67 bbl	Tool Weight: 2000.00 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: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	67.55 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4929.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4901.00	
Shut In Tool	5.00			4906.00	
Hydraulic tool	5.00			4911.00	
Jars	5.00			4916.00	
Safety Joint	3.00			4919.00	
Packer	5.00			4924.00	29.00 Bottom Of Top Packer
Packer	5.00			4929.00	
Stubb	1.00			4930.00	
Recorder	0.00	6741	Inside	4930.00	
Perforations	26.00			4956.00	
Recorder	0.00	13254	Outside	4956.00	
Bullnose	3.00			4959.00	30.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Castelli Exploration Inc
6908 N W 112th St
Oklahoma City Okla 73162
ATTN: Tom Castelli

Donna Marie # 2-16
1633 16 Comanche KS
Job Ticket: 24773 DST#: 2
Test Start: 2006.04.10 @ 11:55:37

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	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
55.00	DM	0.270

Total Length: 55.00 ft Total Volume: 0.270 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Castelli Exploration Inc
6908 NW 112th St
Oklahoma City Okla 73162
ATTN: Tom Castelli

Donna Marie # 2-16
1633 16 Comanche KS
Job Ticket: 24773 **DST#: 2**
Test Start: 2006.04.10 @ 11:55:37

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
		0.00	0.00	0.00

