

DRILL STEM TEST REPORT

Prepared For: **Castelli Expl.Inc.**

6908 NW 112TH St.
Oklahoma City Ok. 73162

ATTN: Kevin Davis

17-33s-16w Comanche

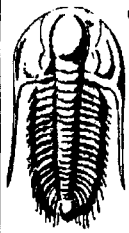
Marsh Ranch #1-17

Start Date: 2003.05.18 @ 09:31:17

End Date: 2003.05.18 @ 18:24:32

Job Ticket #: 17876 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

Castelli Expl. Inc.
6908 NW 112TH St.
Oklahoma City Ok. 73162
ATTN: Kevin Davis

Marsh Ranch #1-17

17-33s-16w Comanche

Job Ticket: 17876

DST#: 1

Test Start: 2003.05.18 @ 09:31:17

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 11:52:17

Time Test Ended: 18:24:32

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4927.00 ft (KB) To 4972.00 ft (KB) (TVD)**

Total Depth: **4972.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1827.00 ft (KB)**

1814.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 2342

Inside

Press@RunDepth: **78.17 psig @ 4928.00 ft (KB)**

Start Date: **2003.05.18**

End Date:

2003.05.18

Capacity: **7000.00 psig**

Last Calib.: **2003.05.18**

Start Time: **09:31:18**

End Time:

18:24:32

Time On Btm: **2003.05.18 @ 11:51:02**

Time Off Btm: **2003.05.18 @ 16:21:47**

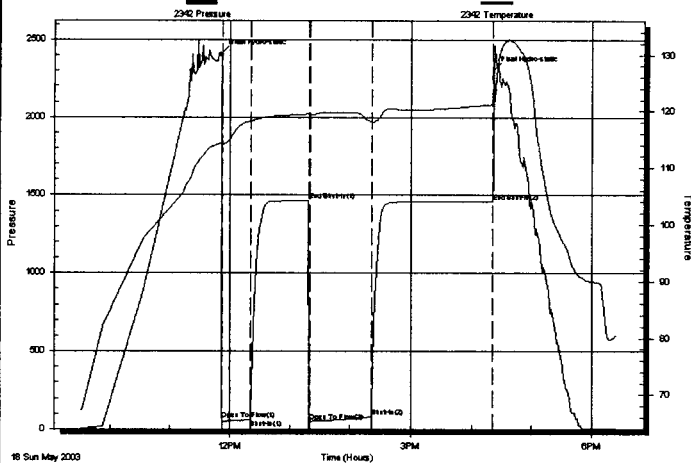
TEST COMMENT: **IF: Strong blow .B.O.B. in 1.5 mins. GTS in 19 mins. (see gas volume report)**

IS: No blow.

FF: Strong blow. (see gas volume report)

FS: No blow.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2412.79	114.29	Initial Hydro-static
2	59.12	114.25	Open To Flow (1)
30	62.90	118.22	Shut-In(1)
88	1463.97	119.50	End Shut-In(1)
90	51.06	119.41	Open To Flow (2)
151	78.17	118.11	Shut-In(2)
271	1461.22	121.20	End Shut-In(2)
271	2307.13	121.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Drig.mud	0.64

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.42
Last Gas Rate	0.38	25.00	143.37
Max. Gas Rate	0.38	25.00	143.37



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Castelli Expl. Inc.

6908 NW 112TH St.
Oklahoma City Ok. 73162

ATTN: Kevin Davis

Marsh Ranch #1-17

17-33s-16w Comanche

Job Ticket: 17876

DST#: 1

Test Start: 2003.05.18 @ 09:31:17

Tool Information

Drill Pipe:	Length:	4717.00 ft	Diameter:	3.80 inches	Volume:	66.17 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:	186.00 ft	Diameter:	2.25 inches	Volume:	0.91 bbl	Weight to Pull Loose:	84000.00 lb
					Total Volume:	67.08 bbl	Tool Chased	3.00 ft
Drill Pipe Above KB:		3.00 ft					String Weight: Initial	71000.00 lb
Depth to Top Packer:		4927.00 ft					Final	71500.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		45.00 ft						
Tool Length:		72.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			4901.00		
S.I. Tool	5.00			4906.00		
HMV	5.00			4911.00		
Jars	5.00			4916.00		
Safety Joint	2.00			4918.00		
Packer	4.00			4922.00	27.00	Bottom Of Top Packer
Packer	5.00			4927.00		
Stubb	1.00			4928.00		
Recorder	0.00	2342	Inside	4928.00		
Perforations	6.00			4934.00		
C.O. Sub	1.00			4935.00		
Blank Spacing	31.00			4966.00		
C.O. Sub	1.00			4967.00		
Recorder	0.00	13222	Outside	4967.00		
Bullnose	5.00			4972.00	45.00	Bottom Packers & Anchor

Total Tool Length: 72.00



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FLUID SUMMARY

Castelli Expl. Inc.

Marsh Ranch #1-17

6908 NW 112TH St.
Oklahoma City Ok. 73162

17-33s-16w Comanche

Job Ticket: 17876

DST#: 1

ATTN: Kevin Davis

Test Start: 2003.05.18 @ 09:31:17

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:

5000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Drig.mud	0.639

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

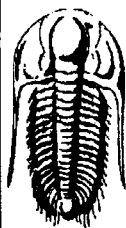
Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments: LCM 8 #/bl.



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DRILL STEM TEST REPORT

GAS RATES

Castelli Expl. Inc.

Marsh Ranch #1-17

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17-33s-16w Comanche

Job Ticket: 17876

DST#: 1

ATTN: Kevin Davis

Test Start: 2003.05.18 @ 09:31:17

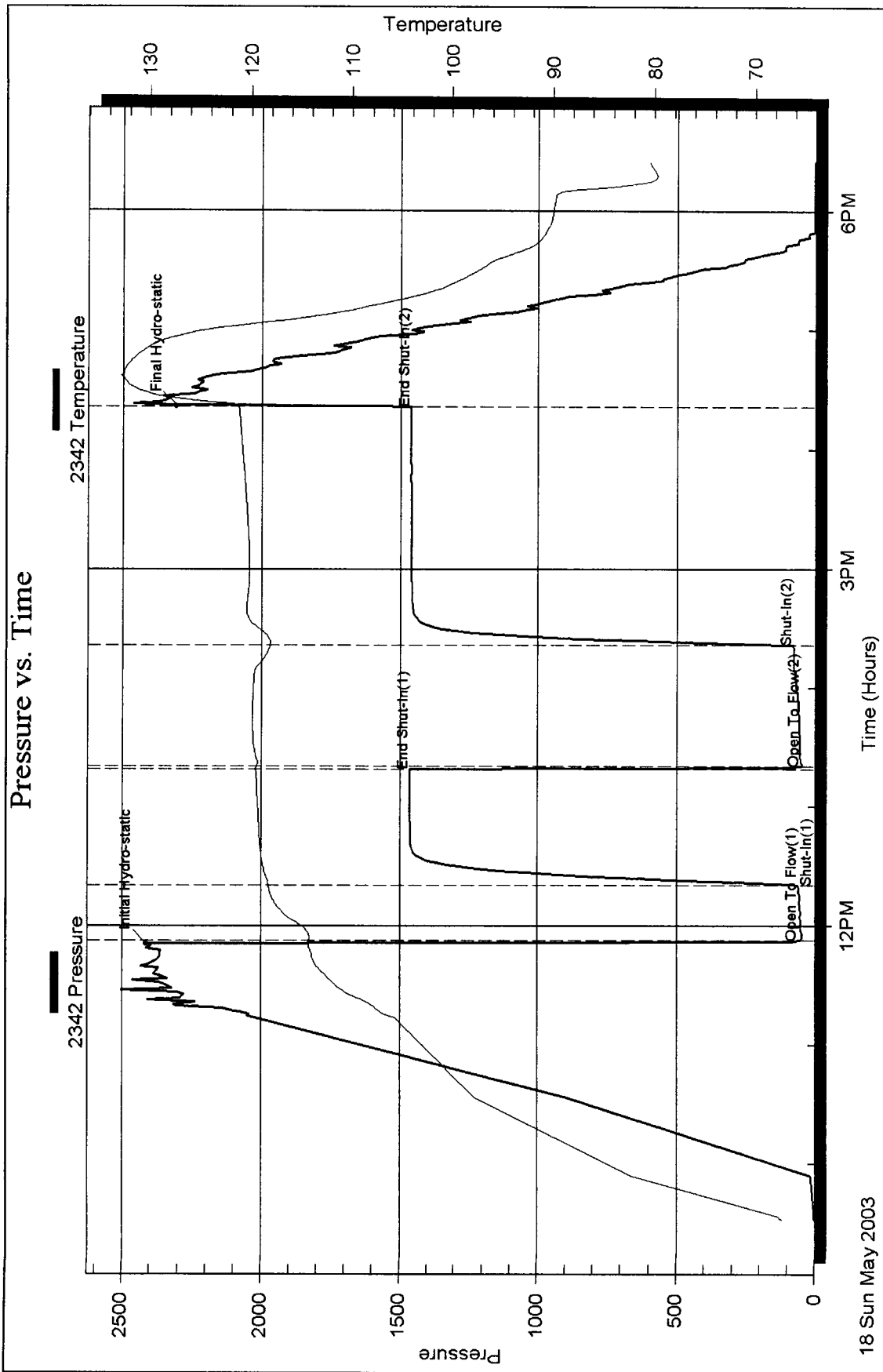
Gas Rates Information

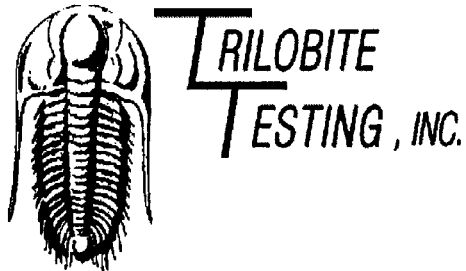
Temperature: 66 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	25	0.25	3.00	27.42
1	30	0.25	8.00	35.30
2	10	0.38	11.00	92.42
2	20	0.38	11.00	92.42
3	30	0.38	12.00	96.06
2	40	0.38	18.00	117.89
2	50	0.38	21.00	128.81
2	60	0.38	25.00	143.37

Pressure vs. Time





DRILL STEM TEST REPORT

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17-33s-16w Comanche

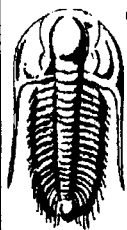
Marsh Ranch #1-17

Start Date: 2003.05.19 @ 02:03:46

End Date: 2003.05.19 @ 10:56:46

Job Ticket #: 17877 DST #: 2

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DRILL STEM TEST REPORT

Castelli Expl. Inc.

6908 NW 112TH St.
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ATTN: Kevin Davis

Marsh Ranch #1-17

17-33s-16w Comanche

Job Ticket: 17877

DST#: 2

Test Start: 2003.05.19 @ 02:03:46

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 04:23:31

Time Test Ended: 10:56:46

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4979.00 ft (KB) To 4996.00 ft (KB) (TVD)**

Total Depth: **4996.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1827.00 ft (KB)**

1814.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 2342

Inside

Press@RunDepth: **16.74 psig @ 4980.00 ft (KB)**

Start Date: **2003.05.19**

End Date: **2003.05.19**

Capacity: **7000.00 psig**

Last Calib.: **2003.05.19**

Start Time: **02:03:47**

End Time: **10:56:46**

Time On Btm: **2003.05.19 @ 04:22:46**

Time Off Btm: **2003.05.19 @ 08:56:46**

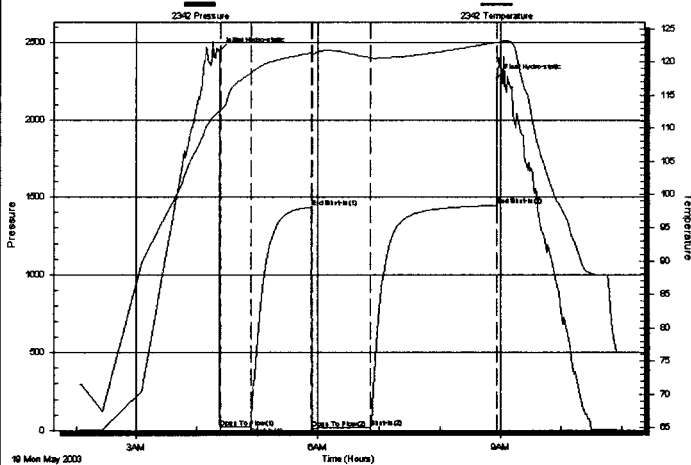
TEST COMMENT: IF: Fair to strong blow . B.O.B. in 7 mins.

IS: Weak blow . 2 - 3".

FF: Strong blow . B.O.B. in 2 secs. GTS in 39 mins. TSTM

FS: Fair blow . 7 - 8".

Pressure vs. Time



PRESSURE SUMMARY

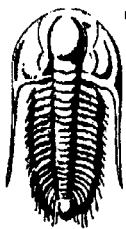
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2446.95	112.65	Initial Hydro-static
1	20.09	112.68	Open To Flow (1)
31	24.63	118.32	Shut-In(1)
90	1434.87	121.34	End Shut-In(1)
91	11.87	121.31	Open To Flow (2)
149	16.74	120.56	Shut-In(2)
274	1445.51	122.93	End Shut-In(2)
274	2270.45	122.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GCM 10%g 90%m	0.05

Gas Rates

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

Castelli Expl. Inc.

Marsh Ranch #1-17

6908 NW 112TH St.
Oklahoma City Ok. 73162

17-33s-16w Comanche

Job Ticket: 17877

DST#: 2

ATTN: Kevin Davis

Test Start: 2003.05.19 @ 02:03:46

Tool Information

Drill Pipe:	Length: 4779.00 ft	Diameter: 3.80 inches	Volume: 67.04 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 81000.00 lb
		Total Volume:	67.95 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4979.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4953.00	
S.I. Tool	5.00			4958.00	
HMV	5.00			4963.00	
Jars	5.00			4968.00	
Safety Joint	2.00			4970.00	
Packer	4.00			4974.00	27.00 Bottom Of Top Packer
Packer	5.00			4979.00	
Stubb	1.00			4980.00	
Recorder	0.00	2342	Inside	4980.00	
Perforations	11.00			4991.00	
Recorder	0.00	13222	Outside	4991.00	
Bullnose	5.00			4996.00	17.00 Bottom Packers & Anchor

Total Tool Length: 44.00



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Job Ticket: 17877

DST#: 2

ATTN: Kevin Davis

Test Start: 2003.05.19 @ 02:03:46

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:

5000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	GCM 10%g 90%m	0.049

Total Length: 10.00 ft

Total Volume:

0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 8#/bl.

Serial #: 2342

Inside

Castelli Expl. Inc.

17-33s-16w Comanche

DST Test Number: 2

