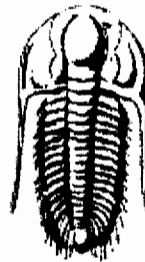


15-007-22891

5-32s-12w

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KANSAS CORPORATION COMMISSION
AUG 12 2005
CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

KCC
AUG 11 2005
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper. Co. LLC**

125 N. Market
Ste. 1000
Wichita KS, 67202

ATTN: Roger Martin

5-32s-12w

Clarke 'A' #1

Start Date: 2005.04.23 @ 18:11:12

End Date: 2005.04.24 @ 03:11:41

Job Ticket #: 21412 DST #: 1

E2 SE NW
1980 FNL 2193 FWL

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC

125 N. Market
Ste. 1000
Wichita KS, 67202
ATTN: Roger Martin

Clarke 'A' #1

5-32s-12w

Job Ticket: 21412

DST#:1

Test Start: 2005.04.23 @ 18:11:12

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:16:11

Time Test Ended: 03:11:41

Test Type: Conventional Bottom Hole

Tester: Davy Cline

Unit No: 24

Interval: **4170.00 ft (KB) To 4215.00 ft (KB) (TVD)**

Total Depth: 4215.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1497.00 ft (KB)

1486.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 69.31 psig @ 4172.00 ft (KB)

Start Date: 2005.04.23

End Date:

2005.04.24

Capacity: 7000.00 psig

Last Calib.: 2005.04.24

Start Time: 18:11:12

End Time:

03:11:41

Time On Btm: 2005.04.23 @ 20:12:56

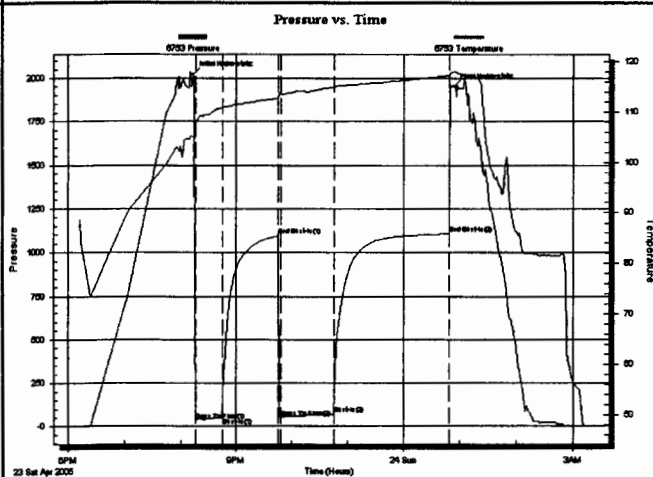
Time Off Btm: 2005.04.24 @ 00:52:56

TEST COMMENT: IF: Strong blow. BOB 30 sec. GTS 23 min. Gauged gas.

ISI: Bled off. No blow back.

FF: Strong blow. BOB immediately. Gauged gas.

FSI: Bled off. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.02	104.98	Initial Hydro-static
4	34.41	108.21	Open To Flow(1)
33	50.80	110.96	Shut-In(1)
93	1094.12	112.83	End Shut-In(1)
95	51.02	113.70	Open To Flow(2)
153	69.31	114.90	Shut-In(2)
276	1105.02	117.25	End Shut-In(2)
280	1953.54	117.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GCM 100% m	0.72
0.00	Gas in all fluid free pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	9.00	37.12
Last Gas Rate	0.25	23.00	59.33
Max. Gas Rate	0.25	23.00	59.33



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co. LLC

Clarke 'A' #1

125 N. Market
Ste. 1000
Wichita KS, 67202
ATTN: Roger Martin

5-32s-12w

Job Ticket: 21412

DST#:1

Test Start: 2005.04.23 @ 18:11:12

Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.25 inches	Volume: 42.78 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 42.78 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4170.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 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			4143.00	
Shut In Tool	5.00			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	2.00			4160.00	
Packer	5.00			4165.00	28.00 Bottom Of Top Packer
Packer	5.00			4170.00	
Stubb	1.00			4171.00	
Perforations	1.00			4172.00	
Recorder	0.00	6753	Inside	4172.00	
Change Over Sub	1.00			4173.00	
Blank Spacing	30.00			4203.00	
Change Over Sub	1.00			4204.00	
Perforations	8.00			4212.00	
Recorder	0.00	13400	Outside	4212.00	
Bullnose	3.00			4215.00	45.00 Bottom Packers & Anchor
Total Tool Length:		73.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC

Clarke 'A' #1

125 N. Market
Ste. 1000
Wichita KS, 67202
ATTN: Roger Martin

5-32s-12w

Job Ticket: 21412

DST#:1

Test Start: 2005.04.23 @ 18:11:12

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GCM 100% m	0.718
0.00	Gas in all fluid free pipe	0.000

Total Length: 70.00 ft

Total Volume: 0.718 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

Woolsey Oper. Co. LLC

Clarke 'A' #1

125 N. Market
Ste. 1000
Wichita KS, 67202
ATTN: Roger Martin

5-32s-12w

Job Ticket: 21412

DST#:1

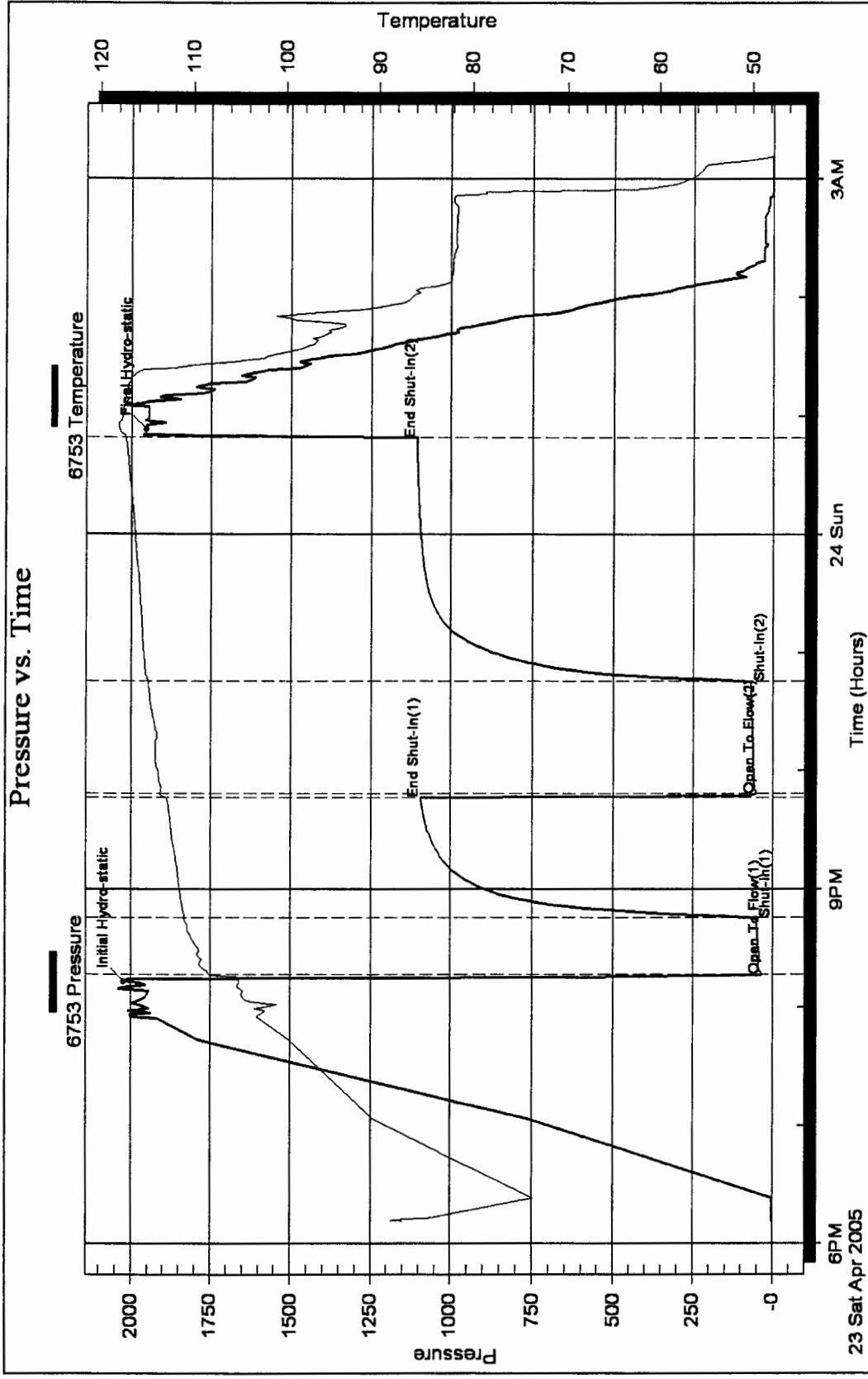
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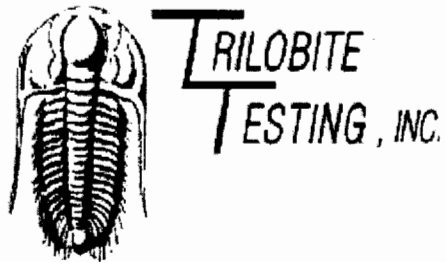
Gas Rates Information

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)
1	30	0.25	9.00	37.12
2	5	0.25	17.00	49.81
2	10	0.25	19.00	52.99
2	15	0.25	20.00	54.57
2	20	0.25	21.00	56.16
2	25	0.25	21.00	56.16
2	30	0.25	21.00	56.16
2	35	0.25	21.00	56.16
2	40	0.25	21.00	56.16
2	45	0.25	22.00	57.75
2	50	0.25	22.00	57.75
2	55	0.25	22.00	57.75
2	60	0.25	23.00	59.33





DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper. Co. LLC**

125 N. Market
Ste. 1000
Wichita KS, 67202

ATTN: Roger Martin

5-32s-12w

Clarke 'A' #1

Start Date: 2005.04.24 @ 13:00:25

End Date: 2005.04.24 @ 22:12:40

Job Ticket #: 21413 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

Woolsey Oper. Co. LLC

125 N. Market
Ste. 1000
Wichita KS, 67202
ATTN: Roger Martin

Clarke 'A' #1

5-32s-12w

Job Ticket: 21413

DST#:2

Test Start: 2005.04.24 @ 13:00:25

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:00:10

Time Test Ended: 22:12:40

Test Type: Conventional Bottom Hole

Tester: Davy Cline

Unit No: 24

Interval: **4215.00 ft (KB) To 4235.00 ft (KB) (TVD)**

Total Depth: 4215.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1497.00 ft (KB)

1486.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 20.60 psig @ 4216.00 ft (KB)

Start Date: 2005.04.24

End Date:

2005.04.24

Capacity: 7000.00 psig

Last Calib.: 2005.04.24

Start Time: 13:00:26

End Time:

22:12:40

Time On Btm: 2005.04.24 @ 15:57:10

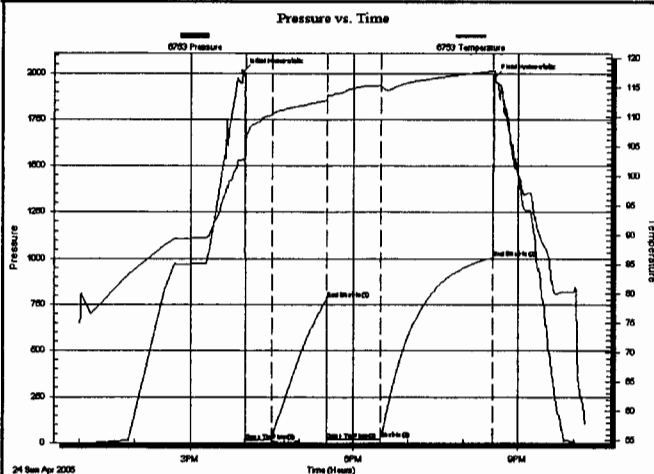
Time Off Btm: 2005.04.24 @ 20:34:10

TEST COMMENT: IF: Fair to Strong blow. BOB 2 min 45 sec.

IS: Bled off. No blow back.

FF: Fair to Strong blow. BOB 5 sec.

FSI: Bled off. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.37	102.88	Initial Hydro-static
3	11.28	105.99	Open To Flow(1)
33	17.48	110.35	Shut-In(1)
93	779.80	112.78	End Shut-In(1)
94	14.43	113.49	Open To Flow(2)
153	20.60	115.31	Shut-In(2)
276	1005.91	117.79	End Shut-In(2)
277	1976.43	117.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GCM 100%fm	0.31
0.00	1500' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co. LLC

Clarke 'A' #1

125 N. Market
Ste. 1000
Wichita KS, 67202

5-32s-12w

Job Ticket: 21413

DST#:2

ATTN: Roger Martin

Test Start: 2005.04.24 @ 13:00:25

Tool Information

Drill Pipe:	Length: 4198.00 ft	Diameter: 3.25 inches	Volume: 43.07 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 43.07 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4215.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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			4188.00	
Shut In Tool	5.00			4193.00	
Hydraulic tool	5.00			4198.00	
Jars	5.00			4203.00	
Safety Joint	2.00			4205.00	
Packer	5.00			4210.00	28.00 Bottom Of Top Packer
Packer	5.00			4215.00	
Stubb	1.00			4216.00	
Recorder	0.00	6753	Inside	4216.00	
Perforations	16.00			4232.00	
Recorder	0.00	13400	Outside	4232.00	
Bullnose	3.00			4235.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC

Clarke 'A' #1

125 N. Market
Ste. 1000
Wichita KS, 67202
ATTN: Roger Martin

5-32s-12w

Job Ticket: 21413

DST#:2

Test Start: 2005.04.24 @ 13:00:25

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: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 17000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GCM 100% m	0.308
0.00	1500' GIP	0.000

Total Length: 30.00 ft

Total Volume: 0.308 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

