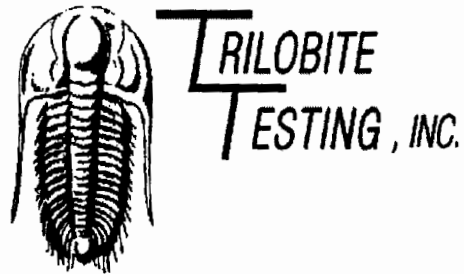


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KANSAS CORPORATION COMMISSION
JUL 14 2005
CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co.**

125 N. Market, Suite 1000
Wichita KS. 67202

ATTN: Dave Goldak

32-31s-17w-Comanche

#1 Williams "A"

Start Date: 2004.01.04 @ 11:55:51

End Date: 2004.01.05 @ 00:08:51

Job Ticket #: 18351 DST #: 1

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

99335


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co.

#1 Williams "A"

125 N. Market, Suite 1000
Wichita KS. 67202

32-31s-17w-Comanche

ATTN: Dave Goldak

Job Ticket: 18351

DST#: 1

Test Start: 2004.01.04 @ 11:55:51

GENERAL INFORMATION:

Formation: **Miss-Warsaw**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:41:51

Time Test Ended: 00:08:51

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: **5095.00 ft (KB) To 5108.00 ft (KB) (TVD)**

Reference Elevations: 2117.00 ft (KB)

Total Depth: 5108.00 ft (KB) (TVD)

2106.00 ft (CF)

Hole Diameter: 6.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6627

Inside

Press@RunDepth: 253.97 psig @ 5097.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.01.04

End Date:

2004.01.05

Last Calib.: 1899.12.30

Start Time: 11:55:53

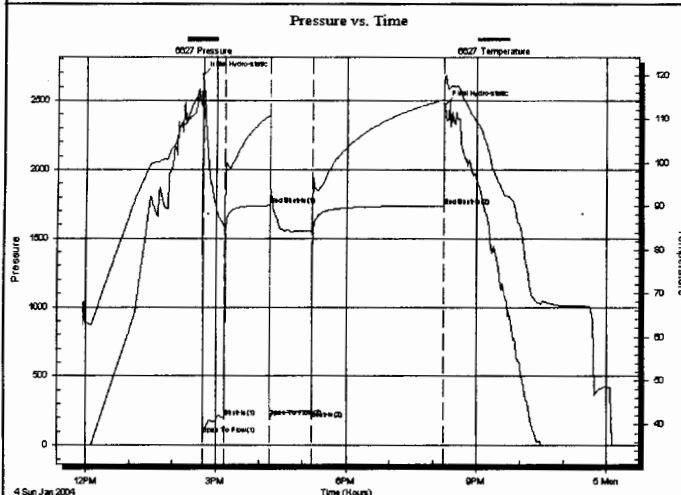
End Time:

00:08:51

Time On Btm: 2004.01.04 @ 14:41:21

Time Off Btm: 2004.01.04 @ 20:15:51

TEST COMMENT: IFP-Strong Blow, BOB in 35 sec, Gas to Surface in 9 min, Guageing Gas, Blow back to BOB
FFP-BOB on Opening, Guageing Gas, Blow back to BOB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2682.23	116.53	Initial Hydro-static
1	81.50	116.70	Open To Flow (1)
32	204.39	85.22	Shut-In(1)
93	1738.19	111.01	End Shut-In(1)
94	201.12	95.21	Open To Flow (2)
151	253.97	84.44	Shut-In(2)
334	1732.79	114.56	End Shut-In(2)
335	2473.93	119.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.91
60.00	Muddy Water 50/50	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	25.00	1132.70
Last Gas Rate	0.75	0.00	224.93
Max. Gas Rate	0.75	64.00	1224.60



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co.

#1 Williams "A"

125 N. Market, Suite 1000
Wichita KS. 67202

32-31s-17w-Comanche

Job Ticket: 18351

DST#: 1

ATTN: Dave Goldak

Test Start: 2004.01.04 @ 11:55:51

Tool Information

Drill Pipe:	Length: 5090.00 ft	Diameter: 3.80 inches	Volume: 71.40 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	88000.00 lb
			Total Volume: 71.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	5095.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	41.00 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			5068.00	
Shut In Tool	5.00			5073.00	
Hydraulic tool	5.00			5078.00	
Jars	5.00			5083.00	
Safety Joint	2.00			5085.00	
Packer	5.00			5090.00	28.00 Bottom Of Top Packer
Packer	5.00			5095.00	
Stubb	1.00			5096.00	
Perforations	1.00			5097.00	
Recorder	0.00	6627	Inside	5097.00	
Perforations	8.00			5105.00	
Recorder	0.00	13252	Outside	5105.00	
Bullnose	3.00			5108.00	13.00 Bottom Packers & Anchor

Total Tool Length: 41.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co.

#1 Williams "A"

125 N. Market, Suite 1000
Wichita KS. 67202

32-31s-17w-Comanche

Job Ticket: 18351

DST#: 1

ATTN: Dave Goldak

Test Start: 2004.01.04 @ 11:55:51

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 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
65.00	Mud	0.912
60.00	Muddy Water 50/50	0.842

Total Length: 125.00 ft

Total Volume: 1.754 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 Operating Co.

#1 Williams "A"

125 N. Market, Suite 1000
Wichita KS. 67202

32-31s-17w-Comanche

Job Ticket: 18351

DST#: 1

ATTN: Dave Goldak

Test Start: 2004.01.04 @ 11:55:51

Gas Rates Information

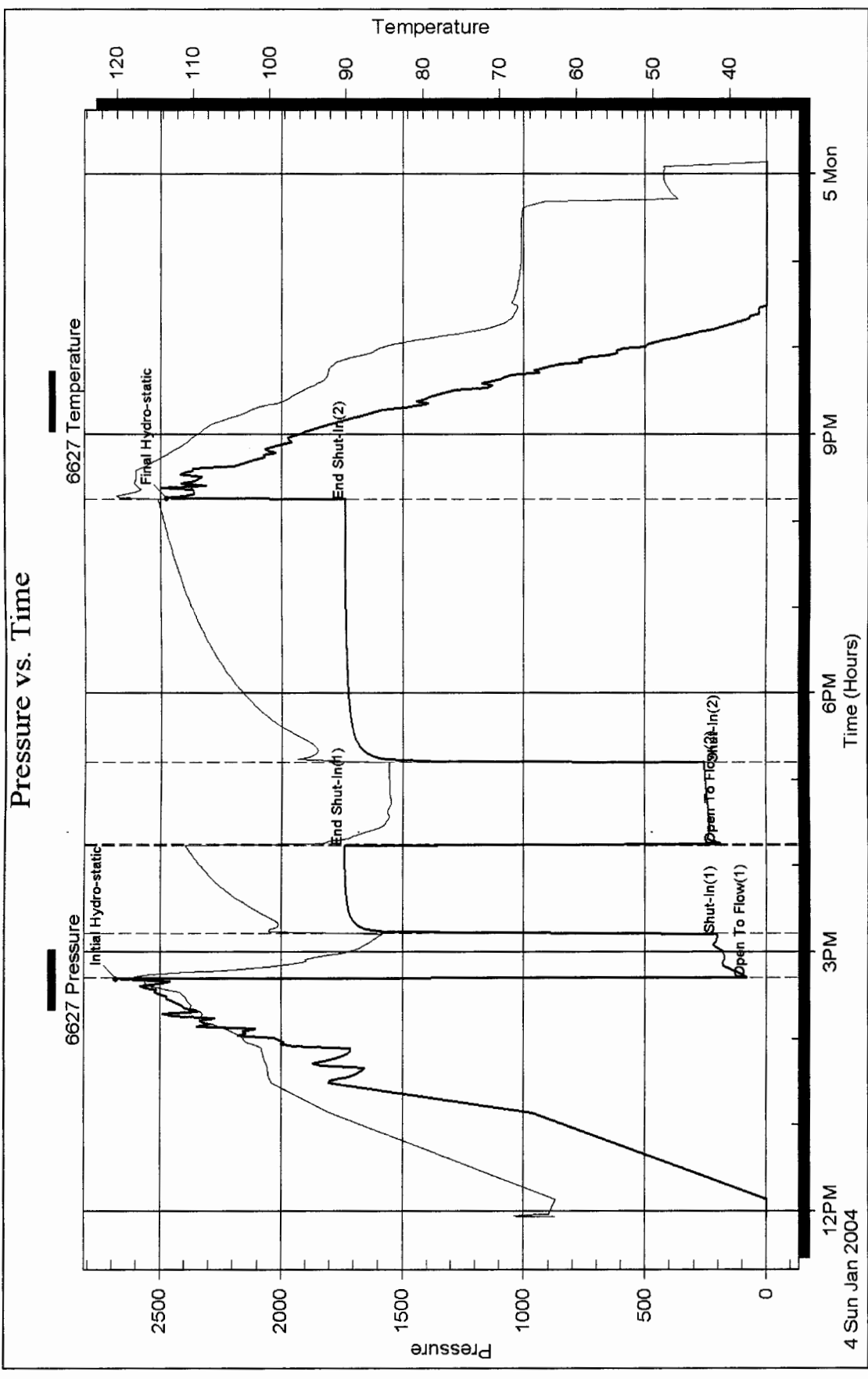
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

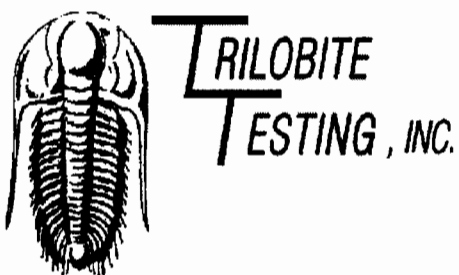
Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	10	1.00	25.00	1132.70
2	20	1.00	27.00	1190.20
3	30	1.00	20.00	988.96
1	10	0.75	61.00	1177.74
2	20	0.75	58.00	1130.88
3	30	0.75	59.00	1146.50
4	40	0.75	61.00	1177.74
5	50	0.75	63.00	1208.98
6	60	0.75	64.00	1224.60
0	0	0.75	0.00	224.93

99335

Serial #: 6627 Inside Wodsey Operating Co. 32-31s-17w-Comanche DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co.**

125 N. Market, Suite 1000
Wichita KS. 67202

ATTN: Dave Goldak

32-31s-17w-Comanche

#1 Williams "A"

Start Date: 2004.01.05 @ 13:14:31

End Date: 2004.01.05 @ 23:33:01

Job Ticket #: 18352 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co.

#1 Williams "A"

125 N. Market, Suite 1000
Wichita KS. 67202

32-31s-17w-Comanche

ATTN: Dave Goldak

Job Ticket: 18352

DST#: 2

Test Start: 2004.01.05 @ 13:14:31

GENERAL INFORMATION:

Formation: **Miss-Warsaw**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:31

Time Test Ended: 23:33:01

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: **5109.00 ft (KB) To 5128.00 ft (KB) (TVD)**

Reference Elevations: 2117.00 ft (KB)

Total Depth: 5128.00 ft (KB) (TVD)

2106.00 ft (CF)

Hole Diameter: 6.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6627

Inside

Press@RunDepth: 54.40 psig @ 5112.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.01.05

End Date:

2004.01.05

Last Calib.: 1899.12.30

Start Time: 13:14:33

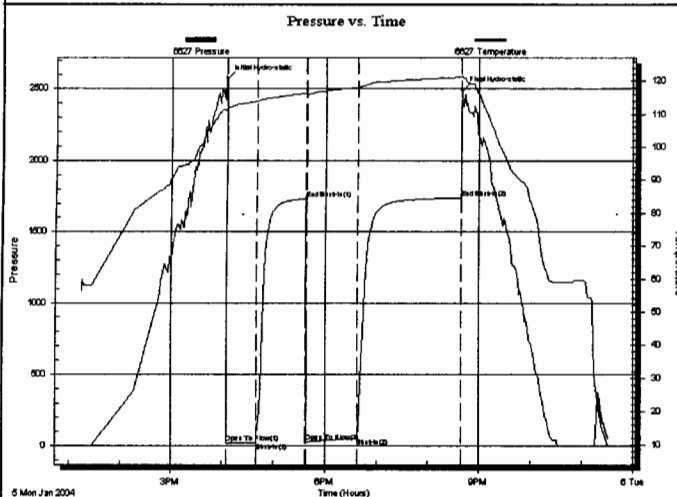
End Time:

23:33:01

Time On Btm: 2004.01.05 @ 16:05:16

Time Off Btm: 2004.01.05 @ 20:40:01

TEST COMMENT: IFP-Weak Blow , Built to 6", Surface Blow back After 6 min.
FFP-Strong Blow , BOB in 20 sec., Surface Blow Back in 4 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2570.79	111.89	Initial Hydro-static
1	20.07	111.24	Open To Flow (1)
35	24.67	113.93	Shut-In(1)
93	1732.59	116.40	End Shut-In(1)
93	29.06	116.03	Open To Flow (2)
153	54.40	118.11	Shut-In(2)
274	1737.92	121.20	End Shut-In(2)
275	2490.48	121.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HOCM-45% Gas-35% Oil-10% Wtr-10% Mud 0.84	
60.00	OCM-40% Gas-20% Oil-20% Wtr-20% Mud 0.84	

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co.

#1 Williams "A"

125 N. Market, Suite 1000
Wichita KS. 67202

32-31s-17w-Comanche

Job Ticket: 18352

DST#: 2

ATTN: Dave Goldak

Test Start: 2004.01.05 @ 13:14:31

Tool Information

Drill Pipe:	Length: 5090.00 ft	Diameter: 3.80 inches	Volume: 71.40 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 71.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	5109.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	47.00 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			5082.00	
Shut In Tool	5.00			5087.00	
Hydraulic tool	5.00			5092.00	
Jars	5.00			5097.00	
Safety Joint	2.00			5099.00	
Packer	5.00			5104.00	28.00 Bottom Of Top Packer
Packer	5.00			5109.00	
Stubb	1.00			5110.00	
Perforations	2.00			5112.00	
Recorder	0.00	6627	Inside	5112.00	
Perforations	13.00			5125.00	
Recorder	0.00	13252	Outside	5125.00	
Bullnose	3.00			5128.00	19.00 Bottom Packers & Anchor

Total Tool Length: 47.00

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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Woolsey Operating Co. 125 N. Market, Suite 1000 Wichita KS. 67202 ATTN: Dave Goldak	#1 Williams "A" 32-31s-17w-Comanche Job Ticket: 18352 DST#: 2 Test Start: 2004.01.05 @ 13:14:31	

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: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 15.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HOCM-45%Gas-35%Oil-10%Wtr-10%Mud	0.842
60.00	OCM-40%Gas-20%Oil-20%Wtr-20%Mud	0.842

Total Length: 120.00 ft Total Volume: 1.684 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

