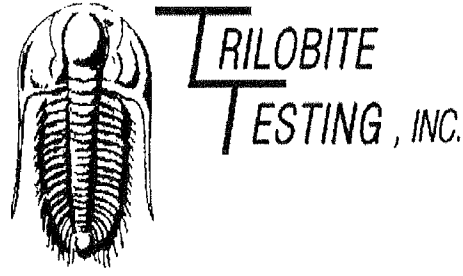


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KANSAS CORPORATION COMMISSION  
MAR 17 2006

CONSERVATION DIVISION  
WICHITA, KS



CONFIDENTIAL  
MAR 16 2006  
KCC

### DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co. LLC**  
125 N. Markey Suite 1000  
Wichita KS 67202

ATTN: Curtis Covey

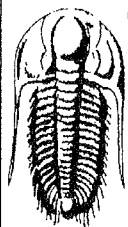
**27/31s-17w Comanche**

**Betty Yost #1**

Start Date: 2005.11.25 @ 18:22:25  
End Date: 2005.11.26 @ 03:33:08  
Job Ticket #: 23659                      DST #: 1

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

Woolsey Operating Co. LLC  
Betty Yost #1  
27/31s-17w Comanche  
DST # 1  
Pawnee  
2005.11.25



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Woolsey Operating Co. LLC

**Betty Yost #1**

125 N. Markey Suite 1000  
Wichita KS 67202

**27/31s-17w Comanche**

Job Ticket: 23659

**DST#: 1**

ATTN: Curtis Covey

Test Start: 2005.11.25 @ 18:22:25

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:27:53

Time Test Ended: 03:33:08

Test Type: Conventional Bottom Hole

Tester: Jason McLemore, Bria

Unit No: 32

Interval: **4850.00 ft (KB) To 4887.00 ft (KB) (TVD)**

Total Depth: 4887.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1993.00 ft (KB)

1980.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 6741** Inside

Press@RunDepth: 19.35 psig @ 4854.00 ft (KB)

Start Date: 2005.11.25 End Date: 2005.11.26

Start Time: 18:22:25 End Time: 03:33:08

Capacity: 7000.00 psig

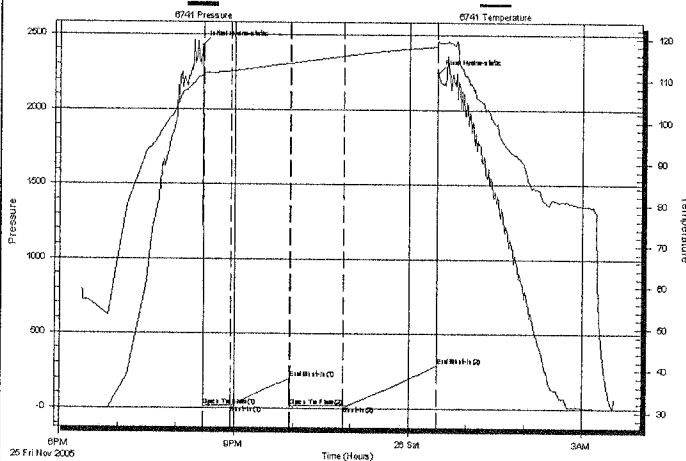
Last Calib.: 2005.11.26

Time On Btm: 2005.11.25 @ 20:26:53

Time Off Btm: 2005.11.26 @ 00:29:53

**TEST COMMENT:** IFP - weak to good blow 1" - 9"  
ISI - no blow  
FFP - weak to good blow 1" - 8 1/2"  
FSP - no blow

Pressure vs. Time



## PRESSURE SUMMARY

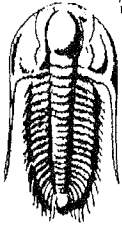
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2426.63	111.07	Initial Hydro-static
1	13.96	110.89	Open To Flow (1)
30	17.06	112.00	Shut-In(1)
90	199.22	113.99	End Shut-In(1)
91	14.44	113.93	Open To Flow (2)
145	19.35	115.66	Shut-In(2)
242	288.95	118.02	End Shut-In(2)
243	2245.94	119.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (tbb)
10.00	GCM	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co. LLC

Betty Yost #1

125 N. Markey Suite 1000  
Wichita KS 67202

27/31s-17w Comanche

Job Ticket: 23659

DST#: 1

ATTN: Curtis Covey

Test Start: 2005.11.25 @ 18:22:25

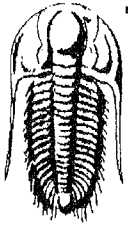
### Tool Information

Drill Pipe:	Length: 4594.00 ft	Diameter: 3.80 inches	Volume: 64.44 bbl	Tool Weight: 2500.00 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: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 65.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4850.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 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			4823.00	
Shut In Tool	5.00			4828.00	
Hydraulic tool	5.00			4833.00	
Jars	5.00			4838.00	
Safety Joint	2.00			4840.00	
Packer	5.00			4845.00	28.00 Bottom Of Top Packer
Packer	5.00			4850.00	
Stubb	1.00			4851.00	
Perforations	3.00			4854.00	
Recorder	0.00	6741	Inside	4854.00	
Perforations	30.00			4884.00	
Recorder	0.00	13221	Outside	4884.00	
Bullnose	3.00			4887.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE**  
TESTING, INC.

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Woolsey Operating Co. LLC

**Betty Yost #1**

125 N. Markey Suite 1000  
Wichita KS 67202

**27/31s-17w Comanche**

Job Ticket: 23659

**DST#: 1**

ATTN: Curtis Covey

Test Start: 2005.11.25 @ 18:22:25

**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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.94 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	GCM	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 465' GIP

Serial #: 6741

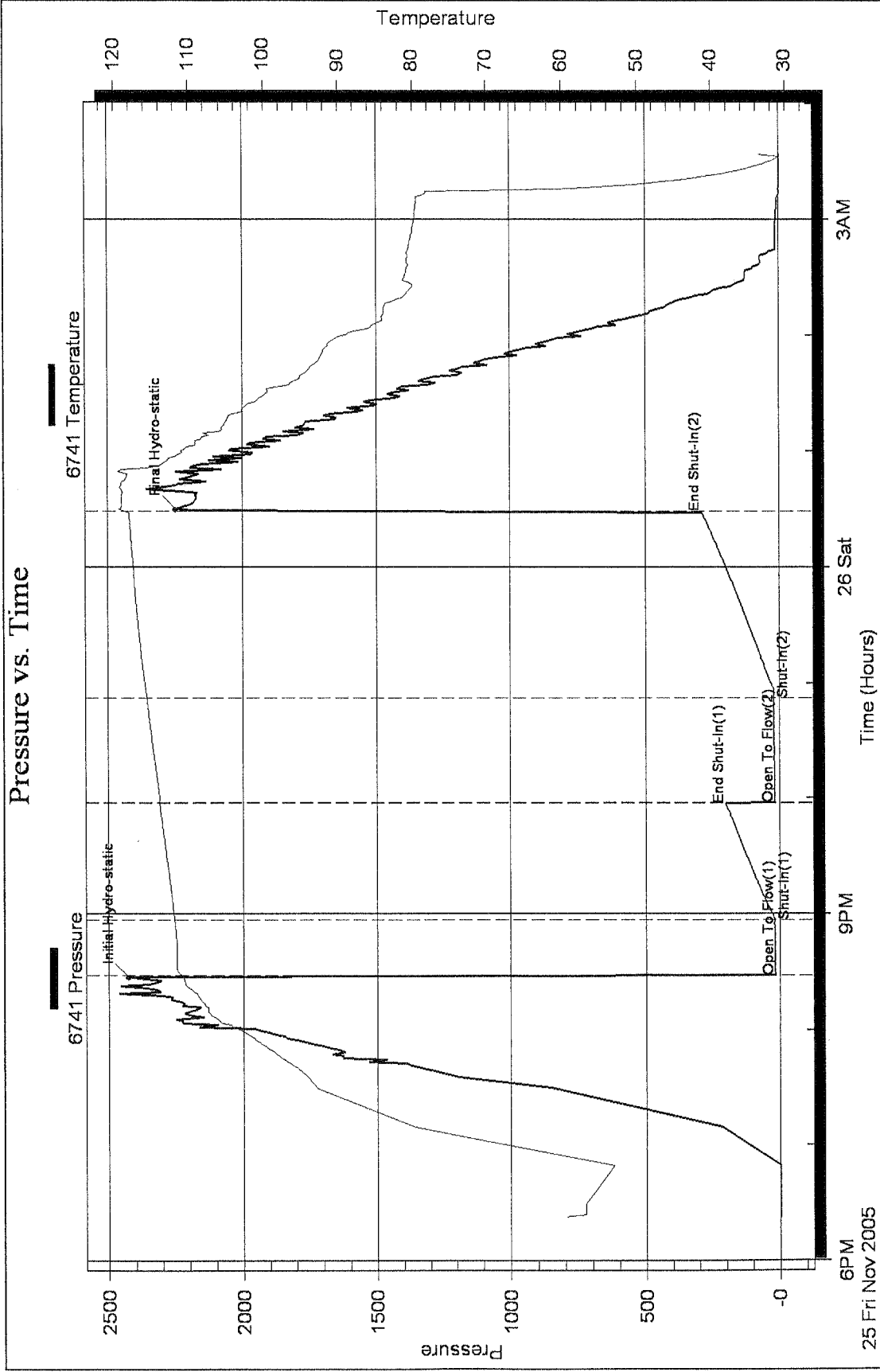
Inside

Wolsey Operating Co. LLC

27/31s-17w Comanche

DST Test Number: 1

### Pressure vs. Time

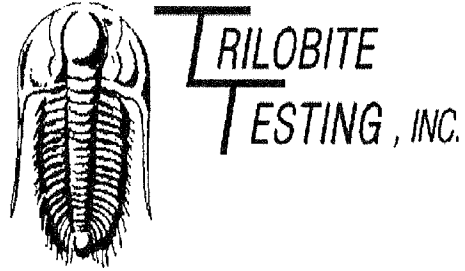


Triobite Testing, Inc

Ref. No: 23659

Printed: 2005.12.05 @ 13:46:25 Page 5





## DRILL STEM TEST REPORT

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

125 N. Markey Suite 1000  
Wichita KS 67202

ATTN: Curtis Covey

**27/31s-17w Comanche**

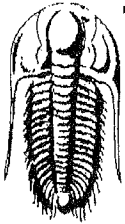
**Betty Yost #1**

Start Date: 2005.11.26 @ 19:30:58

End Date: 2005.11.27 @ 05:01:43

Job Ticket #: 23660                      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 Operating Co. LLC

125 N. Markey Suite 1000  
Wichita KS 67202

ATTN: Curtis Covey

**Betty Yost #1**

**27/31s-17w Comanche**

Job Ticket: 23660

DST#: 2

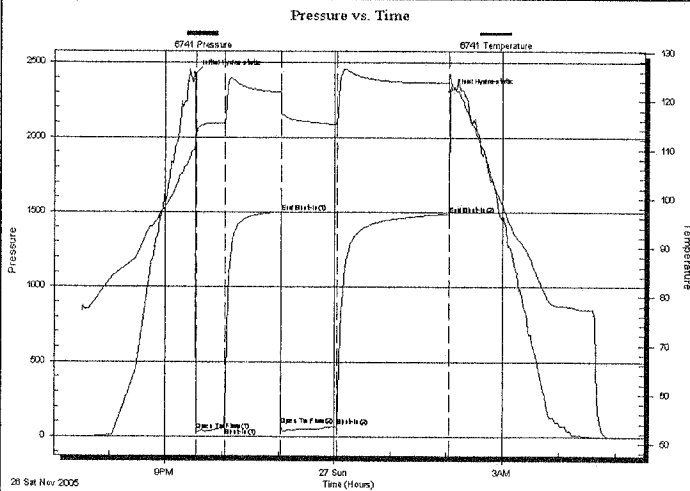
Test Start: 2005.11.26 @ 19:30:58

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 21:32:43  
 Tester: Jason McLemore, Bria  
 Time Test Ended: 05:01:43  
 Unit No: 32  
 Interval: **4950.00 ft (KB) To 4982.00 ft (KB) (TVD)**  
 Reference Elevations: 1993.00 ft (KB)  
 Total Depth: 4887.00 ft (KB) (TVD)  
 1980.00 ft (CF)  
 Hole Diameter: 7.80 inches  
 Hole Condition: Good  
 KB to GR/CF: 13.00 ft

**Serial #: 6741** Inside  
 Press@RunDepth: 69.54 psig @ 4954.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2005.11.26 End Date: 2005.11.27 Last Calib.: 2005.11.27  
 Start Time: 19:31:00 End Time: 05:01:43 Time On Btm: 2005.11.26 @ 21:31:28  
 Time Off Btm: 2005.11.27 @ 02:03:13

**TEST COMMENT:** IFP - strong blow bottom in 30 sec. gas to surface in 14 min  
 ISI - no blow  
 FFP - BOB on opening - guaging gas  
 FSI - no blow



## PRESSURE SUMMARY

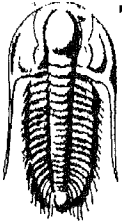
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2425.55	111.26	Initial Hydro-static
2	39.25	113.05	Open To Flow (1)
31	56.32	115.33	Shut-In(1)
91	1501.64	121.82	End Shut-In(1)
91	77.15	117.28	Open To Flow (2)
151	69.54	115.25	Shut-In(2)
272	1487.79	123.84	End Shut-In(2)
272	2305.57	125.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	mud	0.74
60.00	vsocm	0.30

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	9.50	87.55
Last Gas Rate	0.25	16.00	48.23
Max. Gas Rate	0.25	16.00	48.23



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co. LLC

**Betty Yost #1**

125 N. Markey Suite 1000  
Wichita KS 67202

**27/31s-17w Comanche**

Job Ticket: 23660

**DST#: 2**

ATTN: Curtis Covey

Test Start: 2005.11.26 @ 19:30:58

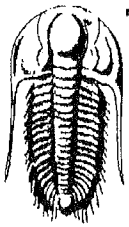
### Tool Information

Drill Pipe:	Length: 4689.00 ft	Diameter: 3.80 inches	Volume: 65.77 bbl	Tool Weight: 2500.00 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: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 83000.00 lb
			<u>Total Volume: 66.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4950.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 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			4923.00	
Shut In Tool	5.00			4928.00	
Hydraulic tool	5.00			4933.00	
Jars	5.00			4938.00	
Safety Joint	2.00			4940.00	
Packer	5.00			4945.00	28.00 Bottom Of Top Packer
Packer	5.00			4950.00	
Stubb	1.00			4951.00	
Perforations	3.00			4954.00	
Recorder	0.00	6741	Inside	4954.00	
Perforations	25.00			4979.00	
Recorder	0.00	13221	Outside	4979.00	
Bullnose	3.00			4982.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Woolsey Operating Co. LLC

**Betty Yost #1**

125 N. Markey Suite 1000  
Wichita KS 67202

**27/31s-17w Comanche**

Job Ticket: 23660

**DST#: 2**

ATTN: Curtis Covey

Test Start: 2005.11.26 @ 19:30:58

### 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.33 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 3.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	mud	0.738
60.00	vsocm	0.295

Total Length: 210.00 ft

Total Volume: 1.033 bbl

Num Fluid Samples: 0

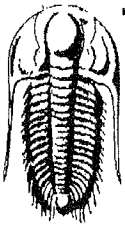
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Woolsey Operating Co. LLC

**Betty Yost #1**

125 N. Markey Suite 1000  
Wichita KS 67202

**27/31s-17w Comanche**

Job Ticket: 23660

**DST#: 2**

ATTN: Curtis Covey

Test Start: 2005.11.26 @ 19:30:58

## 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 <sup>3</sup> /d)
2	10	0.38	9.50	87.55
2	20	0.38	9.00	85.72
2	30	0.38	6.00	74.73
2	40	0.38	4.50	69.23
2	50	0.25	10.00	38.71
2	60	0.25	16.00	48.23

Serial #: 6741

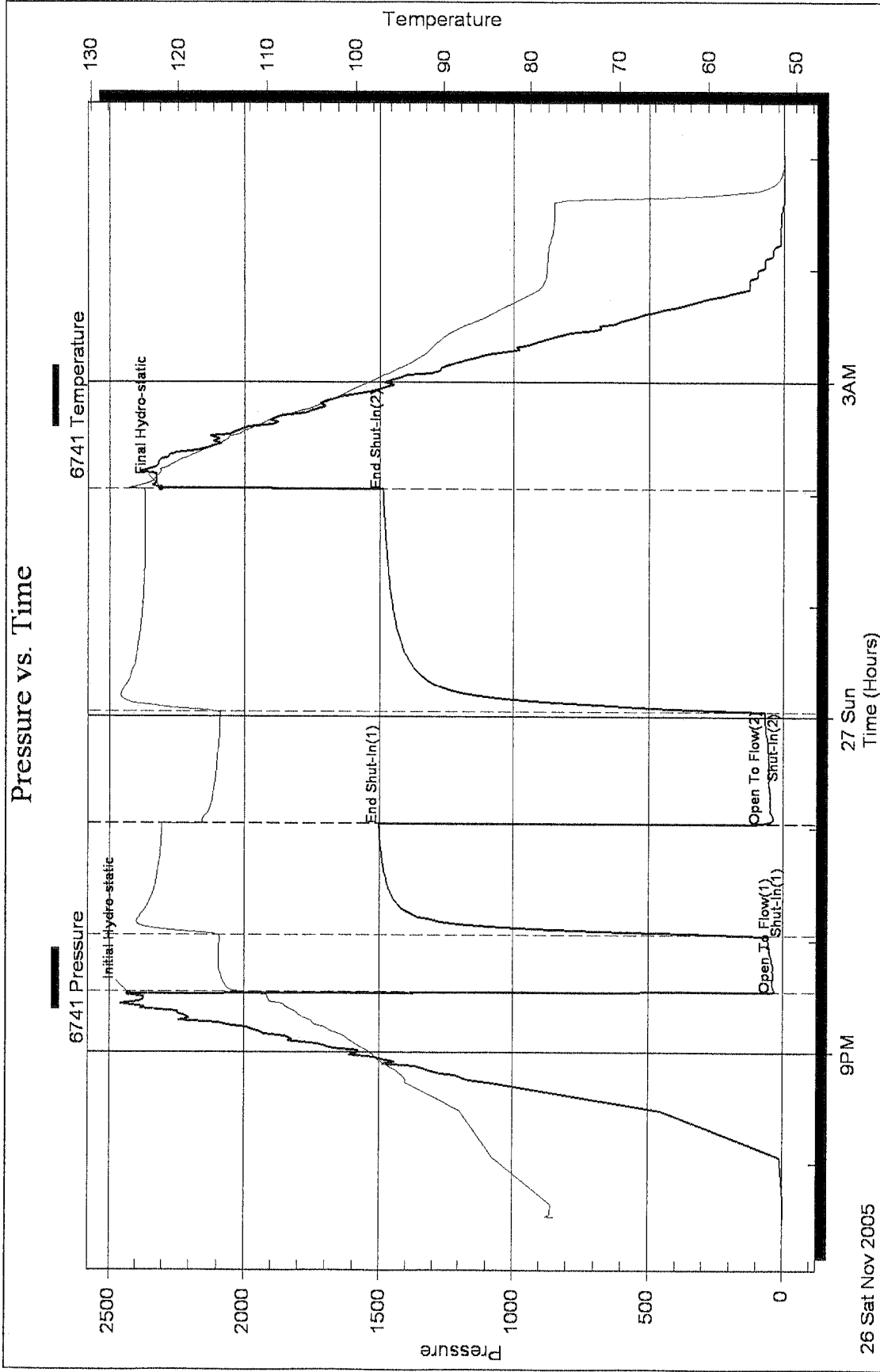
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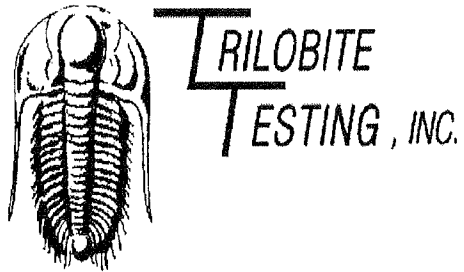
Wolsey Operating Co. LLC

27B1s-17w Comanche

DST Test Number: 2

### Pressure vs. Time





## DRILL STEM TEST REPORT

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

125 N. Markey Suite 1000  
Wichita KS 67202

ATTN: Curtis Covey

**27/31s-17w Comanche**

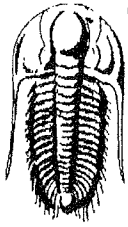
**Betty Yost #1**

Start Date: 2005.11.27 @ 16:14:57

End Date: 2005.11.28 @ 02:23:12

Job Ticket #: 23661                      DST #: 3

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 Operating Co. LLC

125 N. Markey Suite 1000  
Wichita KS 67202

ATTN: Curtis Covey

**Betty Yost #1**

**27/31s-17w Comanche**

Job Ticket: 23661

DST#: 3

Test Start: 2005.11.27 @ 16:14:57

## GENERAL INFORMATION:

Formation: **Warsaw**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:57

Time Test Ended: 02:23:12

Test Type: Conventional Bottom Hole

Tester: Jason McLemore, Bria

Unit No: 32

Interval: **4983.00 ft (KB) To 5020.00 ft (KB) (TVD)**

Total Depth: 4887.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1993.00 ft (KB)

1980.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 6741**

Inside

Press@RunDepth: 42.78 psig @ 4987.00 ft (KB)

Start Date: 2005.11.27

End Date:

2005.11.28

Capacity: 7000.00 psig

Last Calib.: 2005.11.28

Start Time: 16:14:59

End Time:

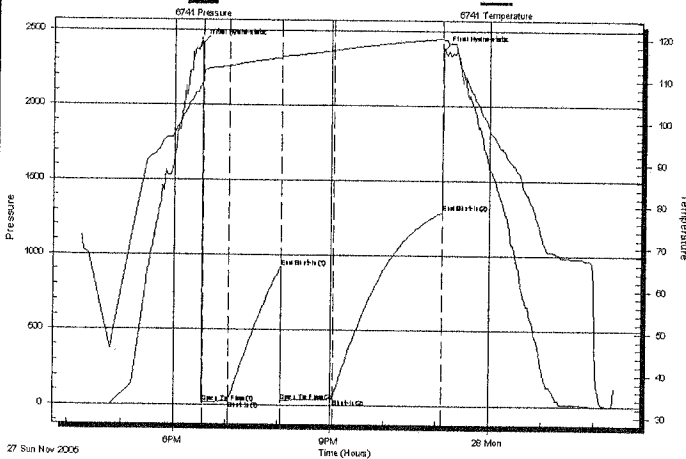
02:23:12

Time On Btm: 2005.11.27 @ 18:31:57

Time Off Btm: 2005.11.27 @ 23:07:57

**TEST COMMENT:** IFP - strong blow bottom in 45 sec.  
ISI - no blow  
FFP - strong blow bottom in 30 sec  
FSI - no blow

Pressure vs. Time



## PRESSURE SUMMARY

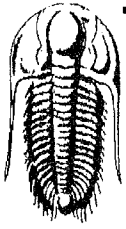
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2408.15	109.90	Initial Hydro-static
1	15.87	110.25	Open To Flow (1)
32	25.71	113.29	Shut-In(1)
92	919.19	115.36	End Shut-In(1)
92	27.86	115.19	Open To Flow (2)
152	42.78	117.06	Shut-In(2)
275	1290.46	120.03	End Shut-In(2)
276	2377.77	119.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Woolsey Operating Co. LLC

**Betty Yost #1**

125 N. Markey Suite 1000  
Wichita KS 67202

**27/31s-17w Comanche**

Job Ticket: 23661

**DST#: 3**

ATTN: Curtis Covey

Test Start: 2005.11.27 @ 16:14:57

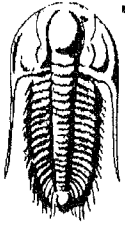
**Tool Information**

Drill Pipe:	Length: 4718.00 ft	Diameter: 3.80 inches	Volume: 66.18 bbl	Tool Weight: 2500.00 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: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 67.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4983.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 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			4956.00	
Shut In Tool	5.00			4961.00	
Hydraulic tool	5.00			4966.00	
Jars	5.00			4971.00	
Safety Joint	2.00			4973.00	
Packer	5.00			4978.00	28.00 Bottom Of Top Packer
Packer	5.00			4983.00	
Stubb	1.00			4984.00	
Perforations	3.00			4987.00	
Recorder	0.00	6741	Inside	4987.00	
Perforations	30.00			5017.00	
Recorder	0.00	13221	Outside	5017.00	
Bullnose	3.00			5020.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Woolsey Operating Co. LLC  
125 N. Markey Suite 1000  
Wichita KS 67202  
ATTN: Curtis Covey

**Betty Yost #1**  
**27/31s-17w Comanche**  
Job Ticket: 23661      **DST#: 3**  
Test Start: 2005.11.27 @ 16:14:57

**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: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 4.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
65.00	mud	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: 925' GIP

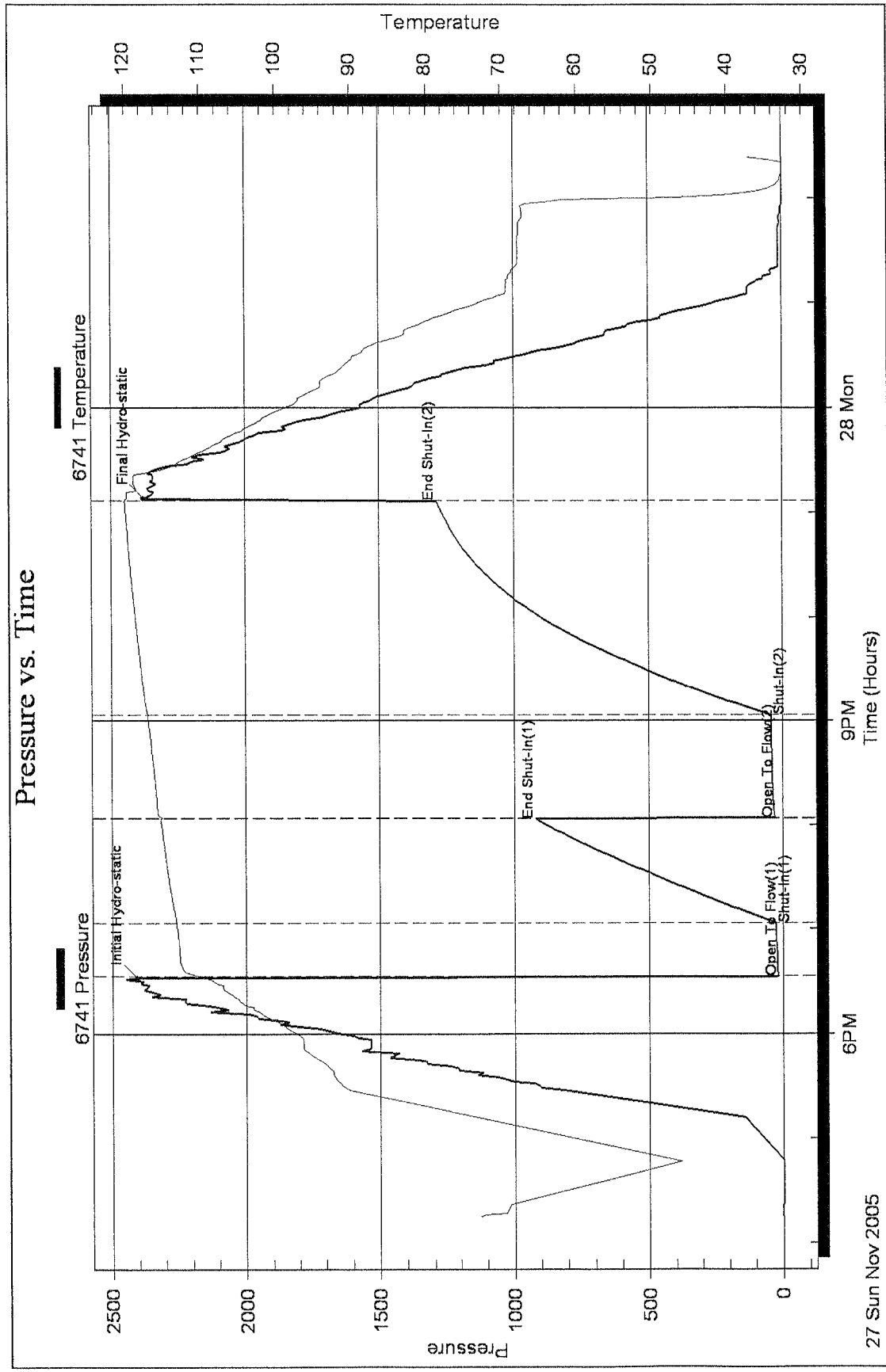
Serial #: 6741

Inside

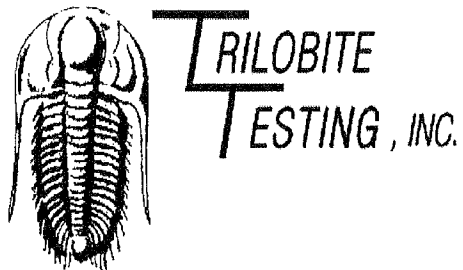
Woolsey Operating Co. LLC

27/31s-17w Comanche

DST Test Number: 3







## DRILL STEM TEST REPORT

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

125 N. Markey Suite 1000  
Wichita KS 67202

ATTN: Curtis Covey

**27/31s-17w Comanche**

**Betty Yost #1**

Start Date: 2005.11.28 @ 12:55:50

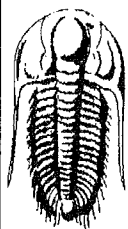
End Date: 2005.11.28 @ 22:18:48

Job Ticket #: 23662                      DST #: 4

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 Operating Co. LLC

125 N. Markey Suite 1000  
Wichita KS 67202

ATTN: Curtis Covey

**Betty Yost #1**

**27/31s-17w Comanche**

Job Ticket: 23662

**DST#: 4**

Test Start: 2005.11.28 @ 12:55:50

## GENERAL INFORMATION:

Formation: **warsaw (2)**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:27:48

Time Test Ended: 22:18:48

Test Type: Conventional Bottom Hole

Tester: Jason McLemore, Bria

Unit No: 32

Interval: **5020.00 ft (KB) To 5060.00 ft (KB) (TVD)**

Total Depth: 5060.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1993.00 ft (KB)

1980.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 6741** Inside

Press@RunDepth: 53.59 psig @ 5022.00 ft (KB)

Start Date: 2005.11.28

End Date: 2005.11.28

Start Time: 12:55:50

End Time: 22:18:48

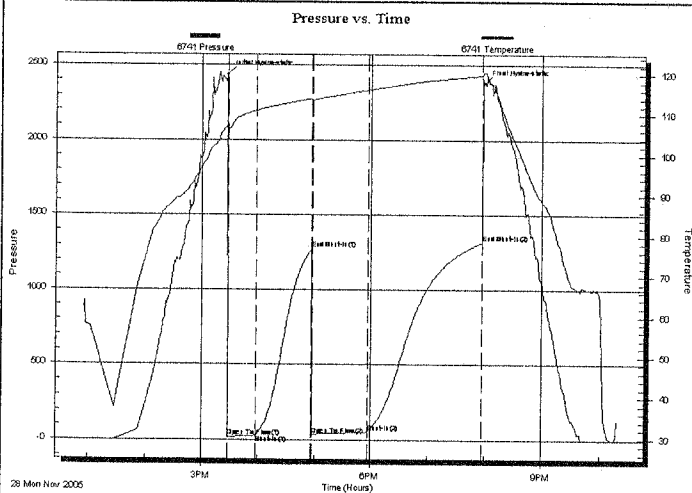
Capacity: 7000.00 psig

Last Calib.: 2005.11.28

Time On Btm: 2005.11.28 @ 15:27:18

Time Off Btm: 2005.11.28 @ 19:59:33

**TEST COMMENT:** IFP - weak to fair blow 1/4" - 5 1/2"  
ISI - no blow back  
FFP - weak to fair blow 1/4" - 5"  
FSP - no blow back



## PRESSURE SUMMARY

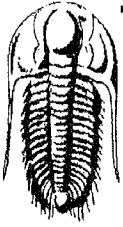
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2435.30	107.31	Initial Hydro-static
1	18.48	106.64	Open To Flow (1)
31	29.87	111.04	Shut-In(1)
90	1275.95	114.00	End Shut-In(1)
90	33.75	113.66	Open To Flow (2)
150	53.59	116.17	Shut-In(2)
270	1316.32	119.77	End Shut-In(2)
273	2378.54	120.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	mud	0.34

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating Co. LLC

Betty Yost #1

125 N. Markey Suite 1000  
Wichita KS 67202

27/31s-17w Comanche

Job Ticket: 23662

DST#: 4

ATTN: Curtis Covey

Test Start: 2005.11.28 @ 12:55:50

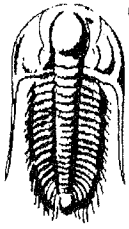
## Tool Information

Drill Pipe:	Length: 4782.00 ft	Diameter: 3.80 inches	Volume: 67.08 bbl	Tool Weight: 2500.00 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: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 68.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5020.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			4993.00	
Shut In Tool	5.00			4998.00	
Hydraulic tool	5.00			5003.00	
Jars	5.00			5008.00	
Safety Joint	2.00			5010.00	
Packer	5.00			5015.00	28.00 Bottom Of Top Packer
Packer	5.00			5020.00	
Stubb	1.00			5021.00	
Perforations	1.00			5022.00	
Recorder	0.00	6741	Inside	5022.00	
Perforations	35.00			5057.00	
Recorder	0.00	13221	Outside	5057.00	
Bullnose	3.00			5060.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co. LLC

Betty Yost #1

125 N. Markey Suite 1000  
Wichita KS 67202

27/31s-17w Comanche

Job Ticket: 23662

DST#: 4

ATTN: Curtis Covey

Test Start: 2005.11.28 @ 12:55:50

## 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 5.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	mud	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

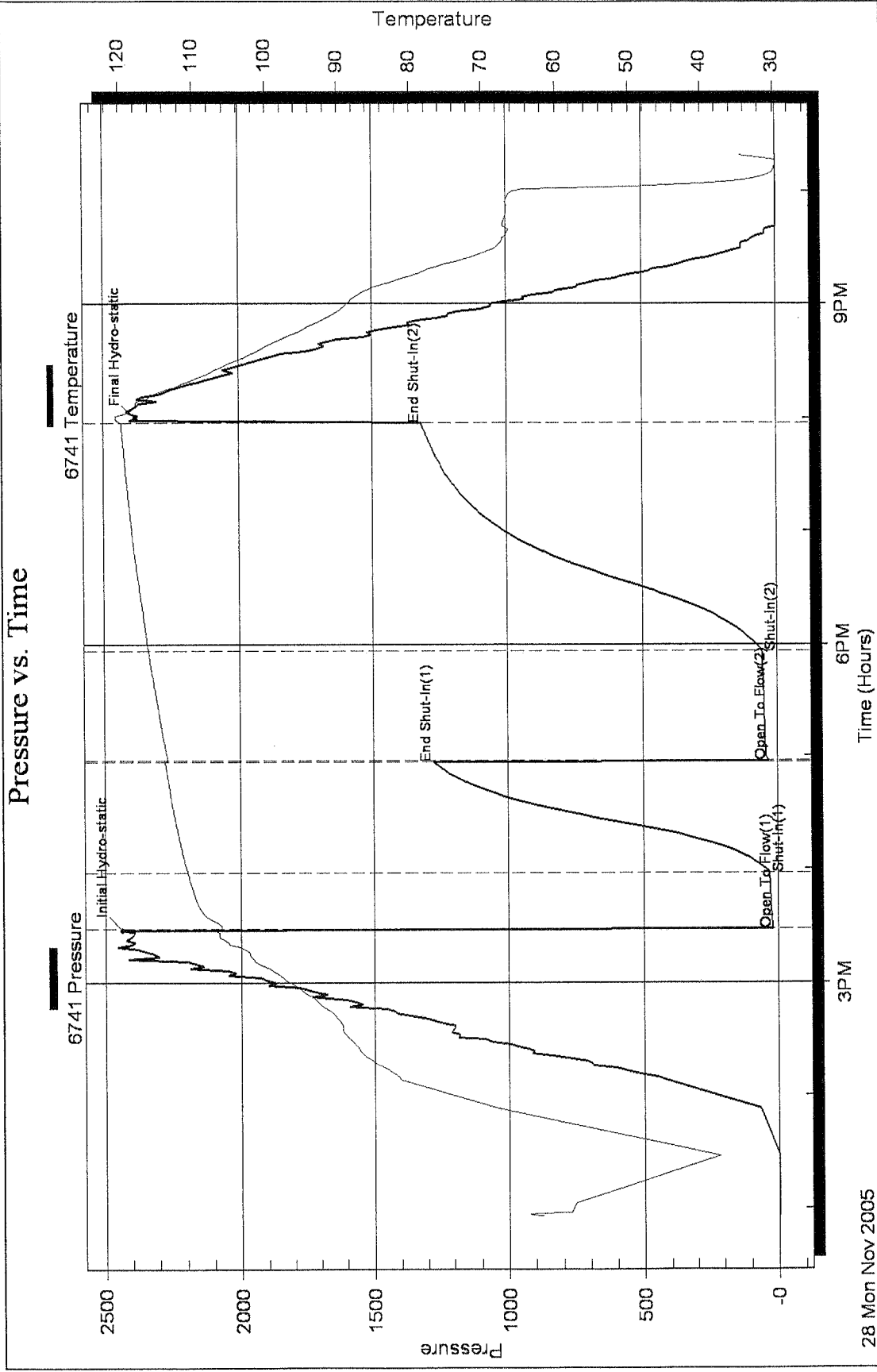
Inside

Woolsey Operating Co. LLC

27/31s-17w Comanche

DST Test Number: 4

### Pressure vs. Time



28 Mon Nov 2005

Trilobite Testing, Inc

Ref. No: 23662

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