

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

125 N. Market STE 1000
Wichita KS 67202

ATTN: Vern Schrag

29 33 16Commanche Ks

Dorsey #2

Start Date: 2008.09.19 @ 11:09:15

End Date: 2008.09.19 @ 21:16:30

Job Ticket #: 25809 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 08 2009

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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Woolsey Oper. Co.

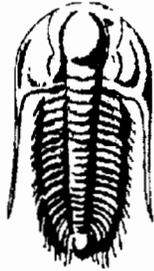
Dorsey #2

29 33 16Commanche Ks

DST # 1

Pawnee

2008.09.19



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

125 N. Market STE 1000
Wichita KS 67202

ATTN: Vern Schrag

29 33 16Commanche Ks

Dorsey #2

Start Date: 2008.09.20 @ 15:09:15

End Date: 2008.09.21 @ 02:30:30

Job Ticket #: 25810 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Oper. Co.
125 N. Market STE 1000
Wichita KS 67202
ATTN: Vern Schrag

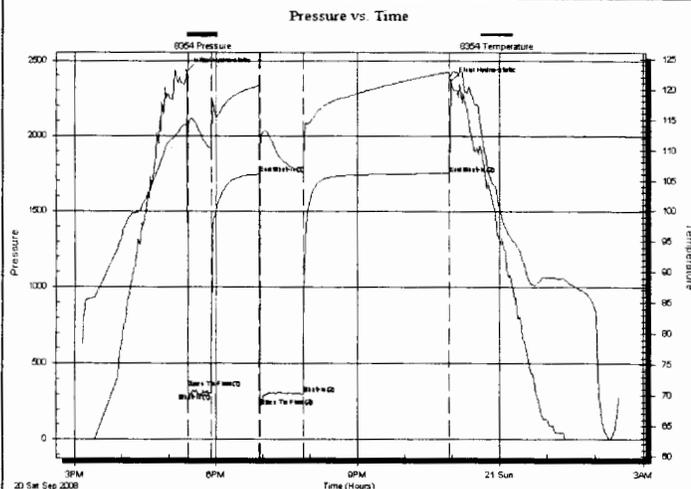
Dorsey #2
29 33 16 Commanche Ks
Job Ticket: 25810 **DST#: 2**
Test Start: 2008.09.20 @ 15:09:15

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 17:24:00
Time Test Ended: 02:30:30
Interval: **4972.00 ft (KB) To 5043.00 ft (KB) (TVD)**
Total Depth: 5043.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Reference Elevations: 1810.00 ft (KB)
1800.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8354 **Inside**
Press@RunDepth: 297.08 psig @ 4972.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.09.20 End Date: 2008.09.21 Last Calib.: 2008.09.21
Start Time: 15:09:20 End Time: 02:30:30 Time On Btm: 2008.09.20 @ 17:22:30
Time Off Btm: 2008.09.20 @ 22:59:30

TEST COMMENT: IF: Strong blow BOB in 20 secs GTS in 2 mins 45 secs See gas rpt
IS: Bled off No blow back
FF: Strong blow BOB immediately GTS See gas rpt
FS: Bled off Weak blow back Building to 5" in 180 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2429.54	114.33	Initial Hydro-static
2	334.32	114.07	Open To Flow (1)
31	303.18	110.03	Shut-In(1)
93	1743.84	120.55	End Shut-In(1)
94	219.37	110.01	Open To Flow (2)
149	297.08	106.47	Shut-In(2)
335	1748.82	122.83	End Shut-In(2)
337	2367.66	122.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	G. W. Oil cut M. 10%g 20%o 20%w 50%0.84	
60.00	W. G. Oil cut M. 20%g 20%o 10%w 50%0.84	
60.00	W. G. Oil cut M. 10%g 24%o 6%w 60%0.84	
50.00	G. M. w/scum of Oil 10%g 90%0	0.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	30.00	1276.45
Last Gas Rate	1.00	30.00	1276.45
Max. Gas Rate	1.00	30.00	1276.45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co.
125 N. Market STE 1000
Wichita KS 67202
ATTN: Vern Schrag

Dorsey #2
29 33 16Commanche Ks
Job Ticket: 25810 **DST#: 2**
Test Start: 2008.09.20 @ 15:09:15

Tool Information

Drill Pipe:	Length: 4968.00 ft	Diameter: 3.80 inches	Volume: 69.69 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 69.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4972.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4949.00	
Hydraulic tool	5.00			4954.00	
Jars	5.00			4959.00	
Safety Joint	3.00			4962.00	
Packer	5.00			4967.00	28.00 Bottom Of Top Packer
Packer	5.00			4972.00	
Recorder	0.00	8359	Inside	4972.00	
Recorder	0.00	8354	Inside	4972.00	
Perforations	4.00			4976.00	
Change Over Sub	1.00			4977.00	
Drill Pipe	62.00			5039.00	
Change Over Sub	1.00			5040.00	
Bullnose	3.00			5043.00	71.00 Bottom Packers & Anchor

Total Tool Length: 99.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co.

Dorsey #2

125 N. Market STE 1000
Wichita KS 67202

29 33 16 Commanche Ks

Job Ticket: 25810

DST#: 2

ATTN: Vern Schrag

Test Start: 2008.09.20 @ 15:09:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 9.98 in³
Resistivity: ohm.m
Salinity: 6100.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	G. W. Oil cut M. 10%g 20%o 20%w 50%m	0.842
60.00	W. G. Oil cut M. 20%g 20%o 10%w 50%m	0.842
60.00	W. G. Oil cut M. 10%g 24%o 6%w 60%m	0.842
50.00	G. M. w/scum of Oil 10%g 90%m	0.701

Total Length: 230.00 ft Total Volume: 3.227 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Woolsey Oper. Co.
125 N. Market STE 1000
Wichita KS 67202
ATTN: Vern Schrag

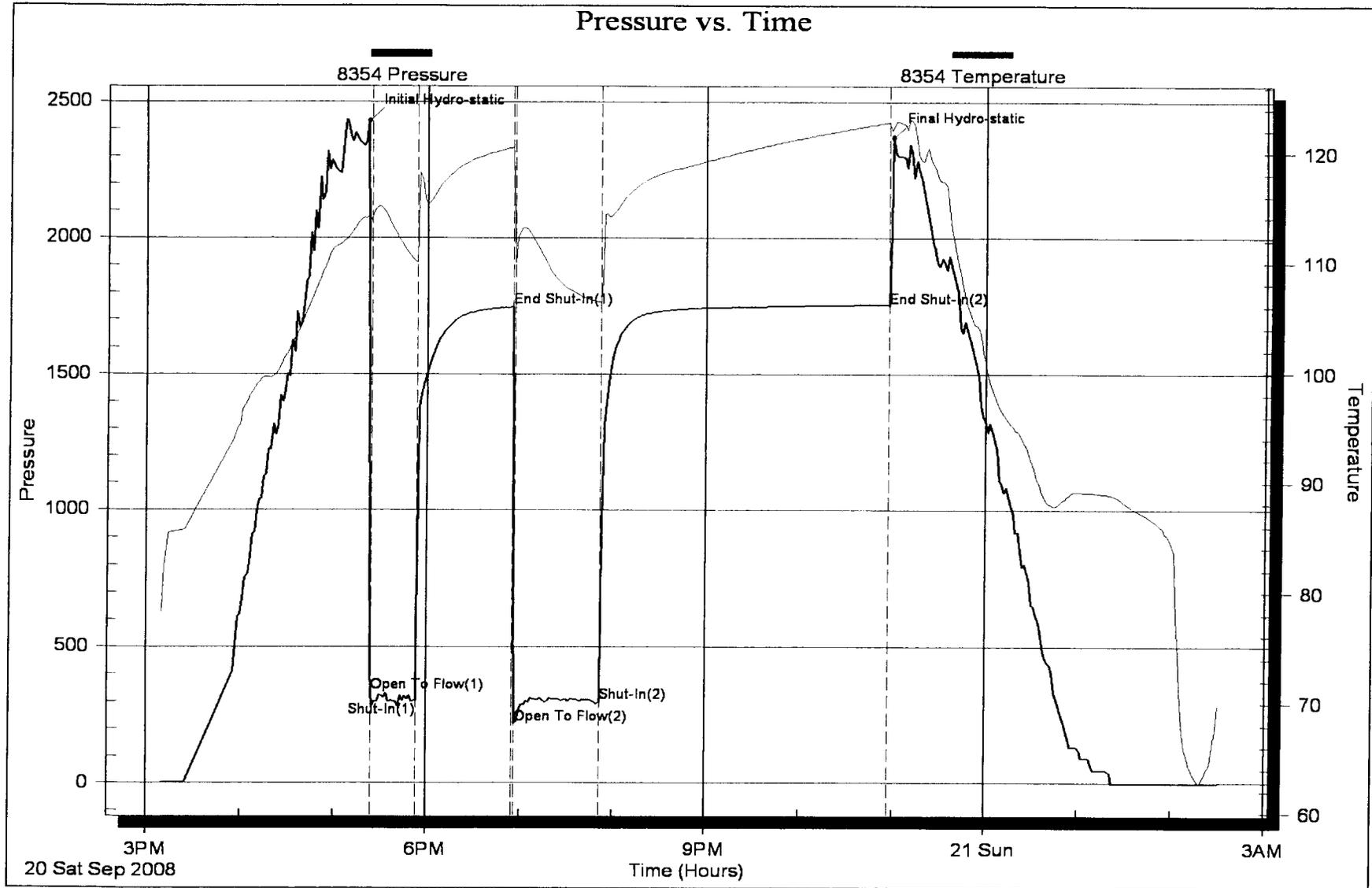
Dorsey #2
29 33 16Commanche Ks
Job Ticket: 25810 DST#: 2
Test Start: 2008.09.20 @ 15:09:15

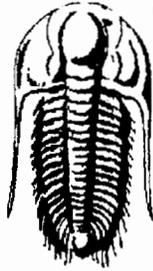
Gas Rates Information

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	10	1.00	30.00	1276.45
1	10	1.00	30.00	1276.45
1	20	1.00	30.00	1276.45
1	30	1.00	30.00	1276.45
2	10	1.00	30.00	1276.45
2	20	1.00	30.00	1276.45
2	30	1.00	30.00	1276.45
2	30	1.00	30.00	1276.45
2	40	1.00	30.00	1276.45
2	50	1.00	30.00	1276.45





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DRILL STEM TEST REPORT

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

125 N. Market STE 1000
Wichita KS 67202

ATTN: Vern Schrag

29 33 16Commanche Ks

Dorsey #2

Start Date: 2008.09.21 @ 15:16:33

End Date: 2008.09.22 @ 01:11:33

Job Ticket #: 25811 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

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Woolsey Oper. Co.

Dorsey #2

29 33 16Commanche Ks

DST # 3

Miss.

2008.09.21



**TRILOBITE
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DRILL STEM TEST REPORT

Woolsey Oper. Co.
125 N. Market STE 1000
Wichita KS 67202
ATTN: Vern Schrag

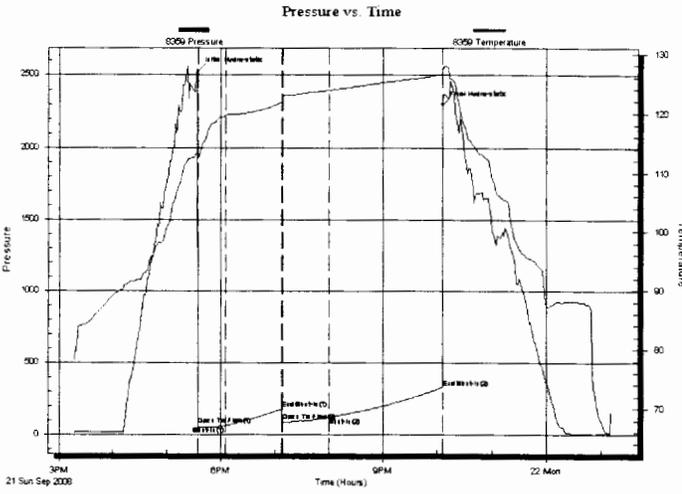
Dorsey #2
29 33 16Commanche Ks
Job Ticket: 25811 DST#: 3
Test Start: 2008.09.21 @ 15:16:33

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:35:03
Time Test Ended: 01:11:33
Test Type: Conventional Bottom Hole
Tester: Travy Cushenbery
Unit No: 46
Interval: **5050.00 ft (KB) To 5110.00 ft (KB) (TVD)**
Reference Elevations: 1810.00 ft (KB)
Total Depth: 5110.00 ft (KB) (TVD) 1800.00 ft (CF)
Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8359 Inside
Press@RunDepth: 122.66 psig @ 5050.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.09.21 End Date: 2008.09.22 Last Calib.: 2008.09.22
Start Time: 15:16:38 End Time: 01:11:33 Time On Btm: 2008.09.21 @ 17:34:48
Time Off Btm: 2008.09.21 @ 22:05:32

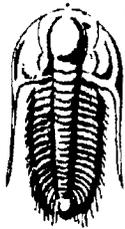
TEST COMMENT: IF Weak blow Building to 3" in 30 mins.
ISI Bled off No blow back.
FF Weak blow Building to 1/4" Slowly died off by 60 mins.
FSI Bled off No blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2532.84	113.40	Initial Hydro-static
1	63.42	112.44	Open To Flow (1)
31	61.09	119.55	Shut-In (1)
93	178.50	121.78	End Shut-In (1)
94	94.18	122.02	Open To Flow (2)
146	122.66	123.82	Shut-In (2)
271	329.46	126.52	End Shut-In (2)
271	2298.32	127.52	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
68.00	Mud 100% m	0.95

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



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TOOL DIAGRAM

Woolsey Oper. Co.
125 N. Market STE 1000
Wichita KS 67202
ATTN: Vern Schrag

Dorsey #2
29 33 16Commanche Ks
Job Ticket: 25811 **DST#: 3**
Test Start: 2008.09.21 @ 15:16:33

Tool Information

Drill Pipe:	Length: 5033.00 ft	Diameter: 3.80 inches	Volume: 70.60 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 70.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	5050.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5027.00	
Hydraulic tool	5.00			5032.00	
Jars	5.00			5037.00	
Safety Joint	3.00			5040.00	
Packer	5.00			5045.00	28.00 Bottom Of Top Packer
Packer	5.00			5050.00	
Recorder	0.00	8359	Inside	5050.00	
Recorder	0.00	8354	Inside	5050.00	
Perforations	6.00			5056.00	
Change Over Sub	1.00			5057.00	
Drill Pipe	32.00			5089.00	
Change Over Sub	1.00			5090.00	
Perforations	17.00			5107.00	
Bullnose	3.00			5110.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



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125 N. Market STE 1000
Wichita KS 67202

29 33 16Commanche Ks

Job Ticket: 25811

DST#: 3

ATTN: Vern Schrag

Test Start: 2008.09.21 @ 15:16:33

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
68.00	Mud 100% _m	0.954

Total Length: 68.00 ft

Total Volume: 0.954 bbl

Num Fluid Samples: 0

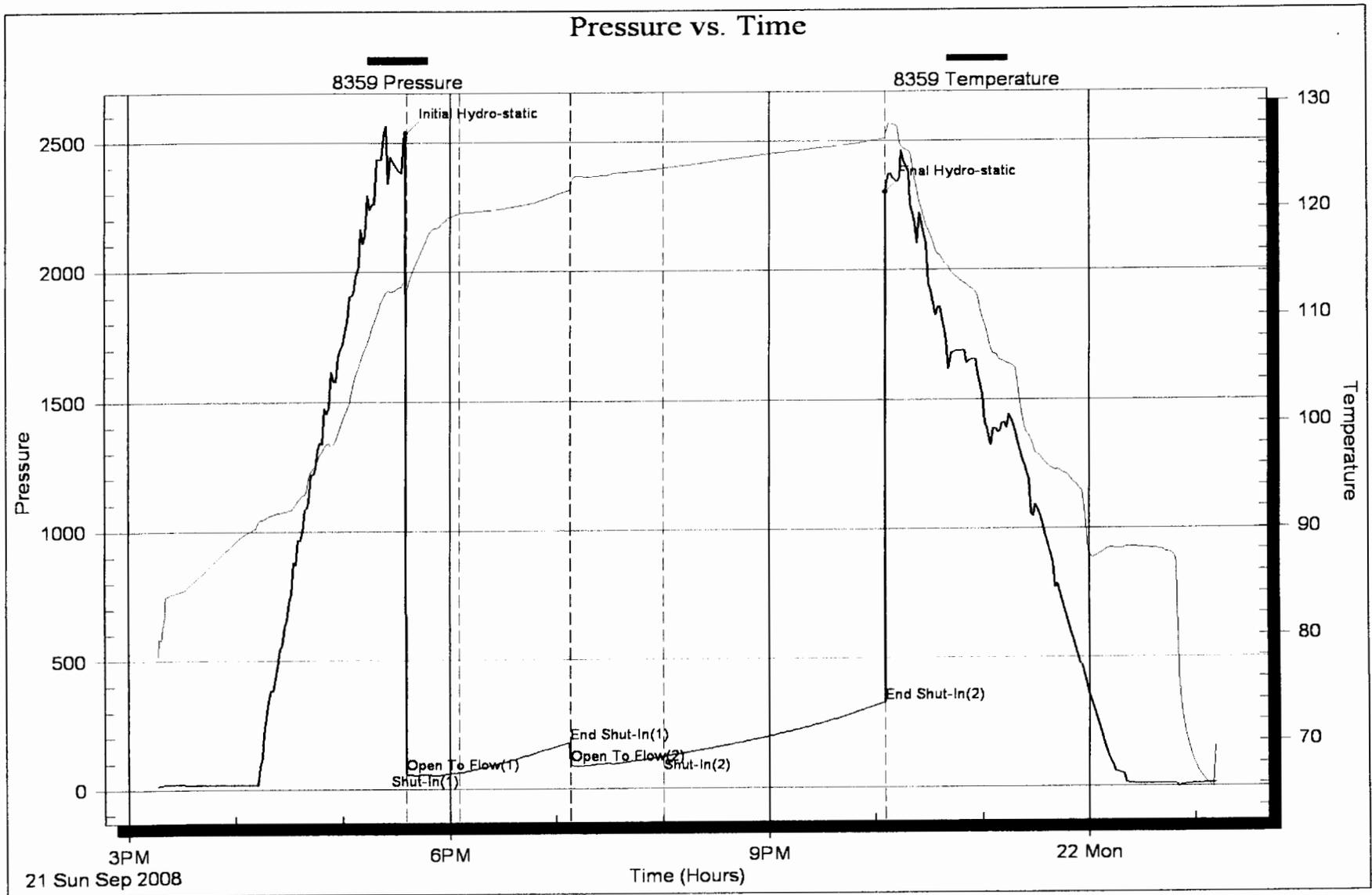
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Woolsey Oper. Co.
125 N. Market STE 1000
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ATTN: Vern Schrag

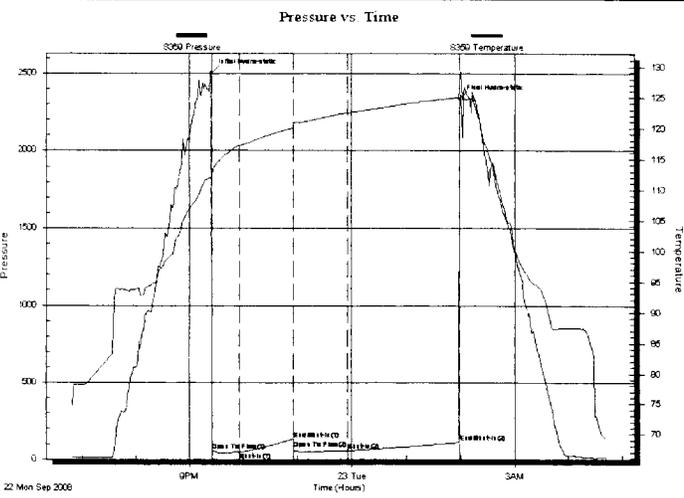
Dorsey #2
29 33 16Commanche Ks
Job Ticket: 25812 **DST#: 4**
Test Start: 2008.09.22 @ 18:48:56

GENERAL INFORMATION:

Formation: **Calley?**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:25:26
Time Test Ended: 04:43:41
Interval: **5120.00 ft (KB) To 5230.00 ft (KB) (TVD)**
Total Depth: 5230.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Travy Cushenbery
Unit No: 46
Reference Elevations: 1810.00 ft (KB)
1800.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8359 Inside
Press@RunDepth: 52.78 psig @ 5120.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.09.22 End Date: 2008.09.23 Last Calib.: 2008.09.23
Start Time: 18:49:01 End Time: 04:43:41 Time On Btm: 2008.09.22 @ 21:24:56
Time Off Btm: 2008.09.23 @ 01:58:55

TEST COMMENT: IF Weak blow Building to 1" in 30 mins
ISI Bled off No blow back
FF Weak blow Building to 1/4" Slowly died off during 60 mins
FSI Bled off No blow back



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2505.24	111.94	Initial Hydro-static
1	55.52	111.77	Open To Flow (1)
31	45.28	117.15	Shut-In (1)
91	131.62	119.98	End Shut-In (1)
91	69.94	120.11	Open To Flow (2)
151	52.78	122.50	Shut-In (2)
274	108.97	124.97	End Shut-In (2)
274	2336.64	126.24	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
50.00	Mud 100% m	0.70

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co.
125 N. Market STE 1000
Wichita KS 67202
ATTN: Vern Schrag

Dorsey #2
29 33 16 Commanche Ks
Job Ticket: 25812 **DST#: 4**
Test Start: 2008.09.22 @ 18:48:56

Tool Information

Drill Pipe:	Length: 5127.00 ft	Diameter: 3.80 inches	Volume: 71.92 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	120000.0 lb
			<u>Total Volume: 71.92 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	5120.00 ft			Final	77000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	110.00 ft				
Tool Length:	138.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

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

Shut In Tool	5.00			5097.00	
Hydraulic tool	5.00			5102.00	
Jars	5.00			5107.00	
Safety Joint	3.00			5110.00	
Packer	5.00			5115.00	28.00 Bottom Of Top Packer
Packer	5.00			5120.00	
Recorder	0.00	8359	Inside	5120.00	
Recorder	0.00	8354	Inside	5120.00	
Perforations	6.00			5126.00	
Change Over Sub	1.00			5127.00	
Drill Pipe	94.00			5221.00	
Change Over Sub	1.00			5222.00	
Perforations	5.00			5227.00	
Bullnose	3.00			5230.00	110.00 Bottom Packers & Anchor

Total Tool Length: 138.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co.

Dorsey #2

125 N. Market STE 1000
Wichita KS 67202

29 33 16Commanche Ks

Job Ticket: 25812

DST#: 4

ATTN: Vern Schrag

Test Start: 2008.09.22 @ 18:48:56

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud 100% _m	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

