

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Red Oak Energy Inc**

7701 E. Kellogg Ste #710
Wichita KS 67207

ATTN: Kevin Davis **ORIGINAL**

23-16S-42W Greeley

Barbara #1-23

Start Date: 2003.11.16 @ 12:30:14

End Date: 2003.11.16 @ 19:52:59

Job Ticket #: 17746 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Red Oak Energy Inc
7701 E. Kellogg Ste #710
Wichita KS 67207
ATTN: Kevin Davis

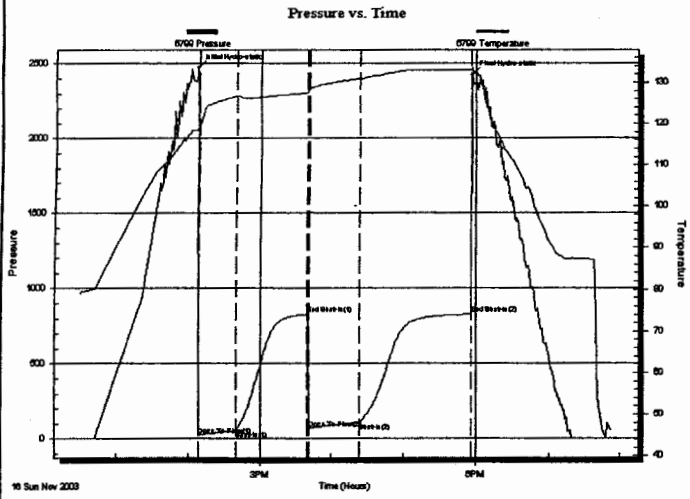
Barbara #1-23
23-16S-42W Greeley
Job Ticket: 17746 DST#: 1
Test Start: 2003.11.16 @ 12:30:14

GENERAL INFORMATION:

Formation: **Upper Morrow**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
Time Tool Opened: **14:08:29** Tester: **Rod Steinbrink**
Time Test Ended: **19:52:59** Unit No: **22**
Interval: **4961.00 ft (KB) To 4991.00 ft (KB) (TVD)** Reference Elevations: **3805.00 ft (KB)**
Total Depth: **4991.00 ft (KB) (TVD)** **3793.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **12.00 ft**

Serial #: **6799** Inside
Press@RunDepth: **106.57 psig @ 4962.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2003.11.16** End Date: **2003.11.16** Last Calib.: **1899.12.30**
Start Time: **12:30:24** End Time: **19:52:59** Time On Btm: **2003.11.16 @ 14:07:29**
Time Off Btm: **2003.11.16 @ 17:56:59**

TEST COMMENT: **F; Weak to fair off bttm in 25 mins.**
IS; Intermittent surface blow f/30 mins
FF; Strong blow off bttm in 1 1/2 min
FS; Surface return built to 2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2471.70	118.66	Initial Hydro-static
1	21.95	118.21	Open To Flow (1)
33	53.14	126.73	Shut-In (1)
93	826.75	127.43	End Shut-In (1)
94	69.11	128.41	Open To Flow (2)
136	106.57	130.89	Shut-In (2)
229	828.16	132.95	End Shut-In (2)
230	2425.54	133.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	VGOCM 70%gas 10%oil 20%mud	0.98

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Red Oak Energy Inc
7701 E. Kellogg Ste #710
Wichita KS 67207
ATTN: Kevin Davis

Barbara #1-23
23-16S-42W Greeley
Job Ticket: 17746 DST#: 1
Test Start: 2003.11.16 @ 12:30:14

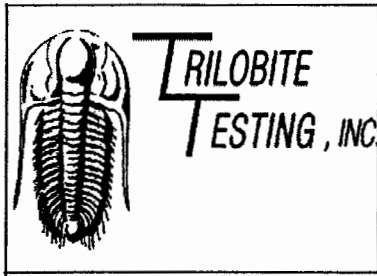
Tool Information

Drill Pipe:	Length: 4382.00 ft	Diameter: 3.80 inches	Volume: 61.47 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 571.00 ft	Diameter: 2.25 inches	Volume: 2.81 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 64.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4961.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			4939.00	
Hydraulic tool	5.00			4944.00	
Jars	5.00			4949.00	
Safety Joint	2.00			4951.00	
Packer	5.00			4956.00	27.00 Bottom Of Top Packer
Packer	5.00			4961.00	
Stubb	1.00			4962.00	
Recorder	0.00	6799	Inside	4962.00	
Perforations	24.00			4986.00	
Recorder	0.00	13371	Outside	4986.00	
Bullnose	5.00			4991.00	30.00 Bottom Packers & Anchor
Total Tool Length:	57.00				

99398



DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy Inc
 7701 E. Kellogg Ste #710
 Wichita KS 67207
 ATTN: Kevin Davis

Barbara #1-23
23-16S-42W Greeley
 Job Ticket: 17746 DST#: 1
 Test Start: 2003.11.16 @ 12:30:14

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: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	VGOCM 70%gas 10%oil 20%mud	0.984

Total Length: 200.00 ft Total Volume: 0.984 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1395" GIP

Serial #: 6799

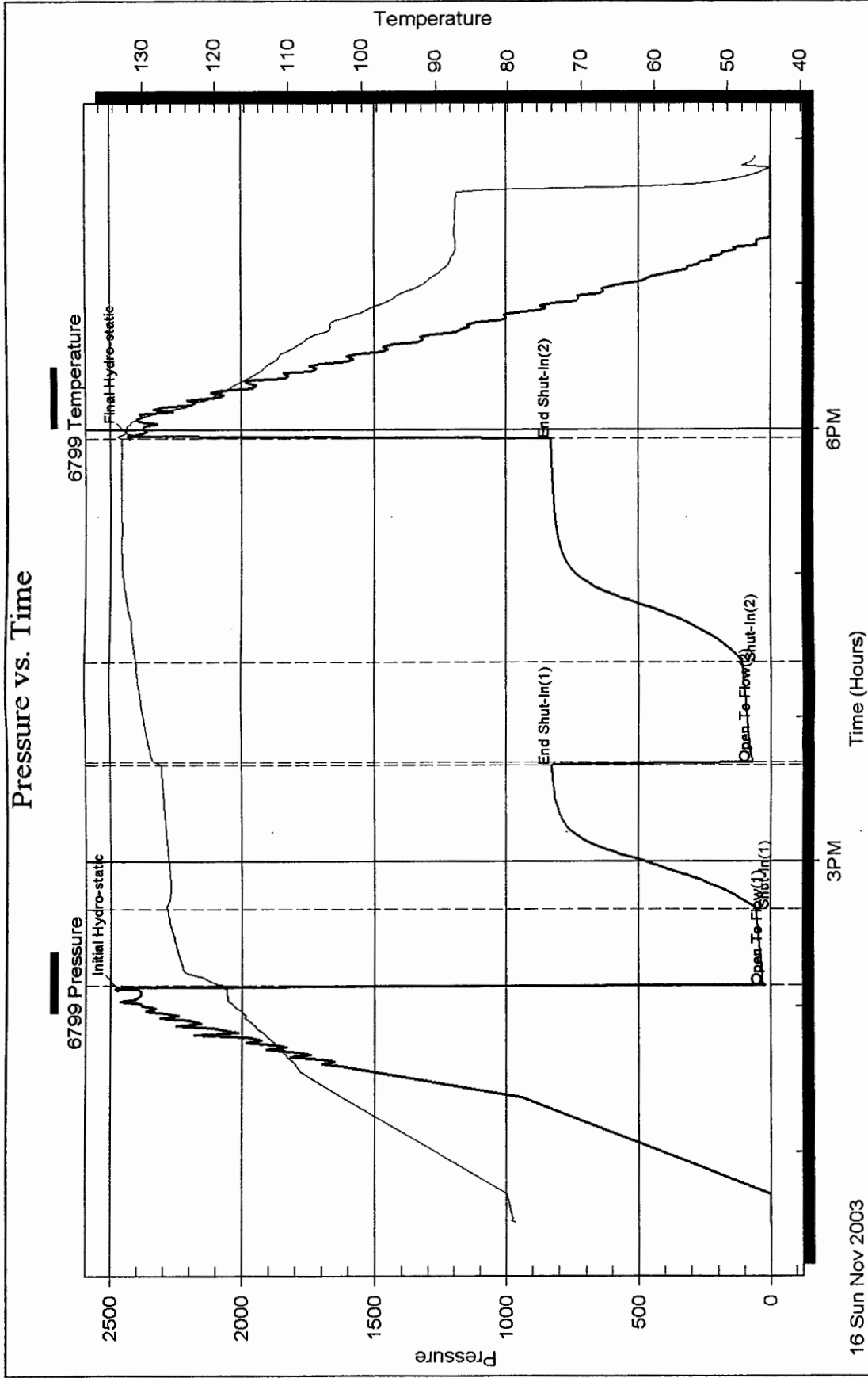
Inside

Red Oak Energy Inc

23-16S-42W Greeley

DST Test Number: 1

Pressure vs. Time

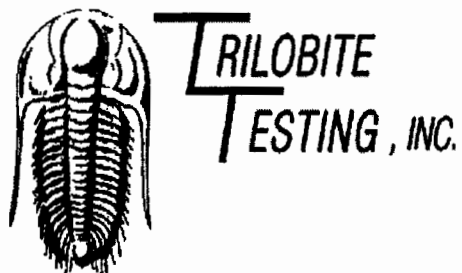


16 Sun Nov 2003

3PM

6PM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Red Oak Energy Inc**

7701 E. Kellogg Ste #710
Wichita KS 67207

ATTN: Kevin Davis

23-16S-42W Greeley

Barbara #1-23

Start Date: 2003.11.17 @ 16:45:15

End Date: 2003.11.17 @ 20:34:00

Job Ticket #: 17747 DST #: 2

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

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DRILL STEM TEST REPORT

Red Oak Energy Inc
 7701 E. Kellogg Ste #710
 Wichita KS 67207
 ATTN: Kevin Davis

Barbara #1-23
23-16S-42W Greeley
 Job Ticket: 17747 DST#: 2
 Test Start: 2003.11.17 @ 16:45:15

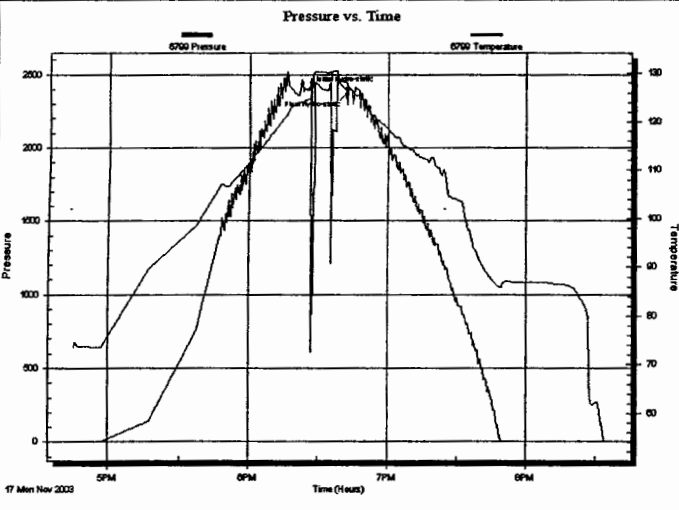
GENERAL INFORMATION:

Formation: **Lower Morow**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 18:27:00
 Time Test Ended: 20:34:00
 Interval: **5050.00 ft (KB) To 5170.00 ft (KB) (TVD)**
 Total Depth: **5170.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Rod Steinbrink**
 Unit No: **22**
 Reference Elevations: **3805.00 ft (KB)**
3793.00 ft (CF)
 KB to GR/CF: **12.00 ft**

Serial #: 6799

Inside
 Press@RunDepth: psig @ 5051.00 ft (KB)
 Start Date: 2003.11.17 End Date: 2003.11.17 Capacity: 7000.00 psig
 Start Time: 16:45:25 End Time: 20:34:00 Last Calib.: 1899.12.30
 Time On Btm: 2003.11.17 @ 18:25:45
 Time Off Btm: 2003.11.17 @ 18:42:15

TEST COMMENT: Packer seat failed - reset tool - failed again TOH



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2395.83	124.76	Initial Hydro-static
17	2370.85	128.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	Drig. Mud	3.21

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Red Oak Energy Inc
7701 E. Kellogg Ste #710
Wichita KS 67207
ATTN: Kevin Davis

Barbara #1-23
23-16S-42W Greeley
Job Ticket: 17747 DST#: 2
Test Start: 2003.11.17 @ 16:45:15

Tool Information

Drill Pipe:	Length: 4476.00 ft	Diameter: 3.80 inches	Volume: 62.79 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 571.00 ft	Diameter: 2.25 inches	Volume: 2.81 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5050.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	147.00 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			5028.00	
Hydraulic tool	5.00			5033.00	
Jars	5.00			5038.00	
Safety Joint	2.00			5040.00	
Packer	5.00			5045.00	27.00 Bottom Of Top Packer
Packer	5.00			5050.00	
Stubb	1.00			5051.00	
Recorder	0.00	6799	Inside	5051.00	
Perforations	17.00			5068.00	
Change Over Sub	1.00			5069.00	
Anchor	95.00			5164.00	
Change Over Sub	1.00			5165.00	
Recorder	0.00	13371	Outside	5165.00	
Bullnose	5.00			5170.00	120.00 Bottom Packers & Anchor

Total Tool Length: 147.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy Inc

Barbara #1-23

7701 E. Kellogg Ste #710
Wichita KS 67207

23-16S-42W Greeley

Job Ticket: 17747

DST#: 2

ATTN: Kevin Davis

Test Start: 2003.11.17 @ 16:45:15

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	Drig. Mud.	3.215

Total Length: 600.00 ft

Total Volume: 3.215 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

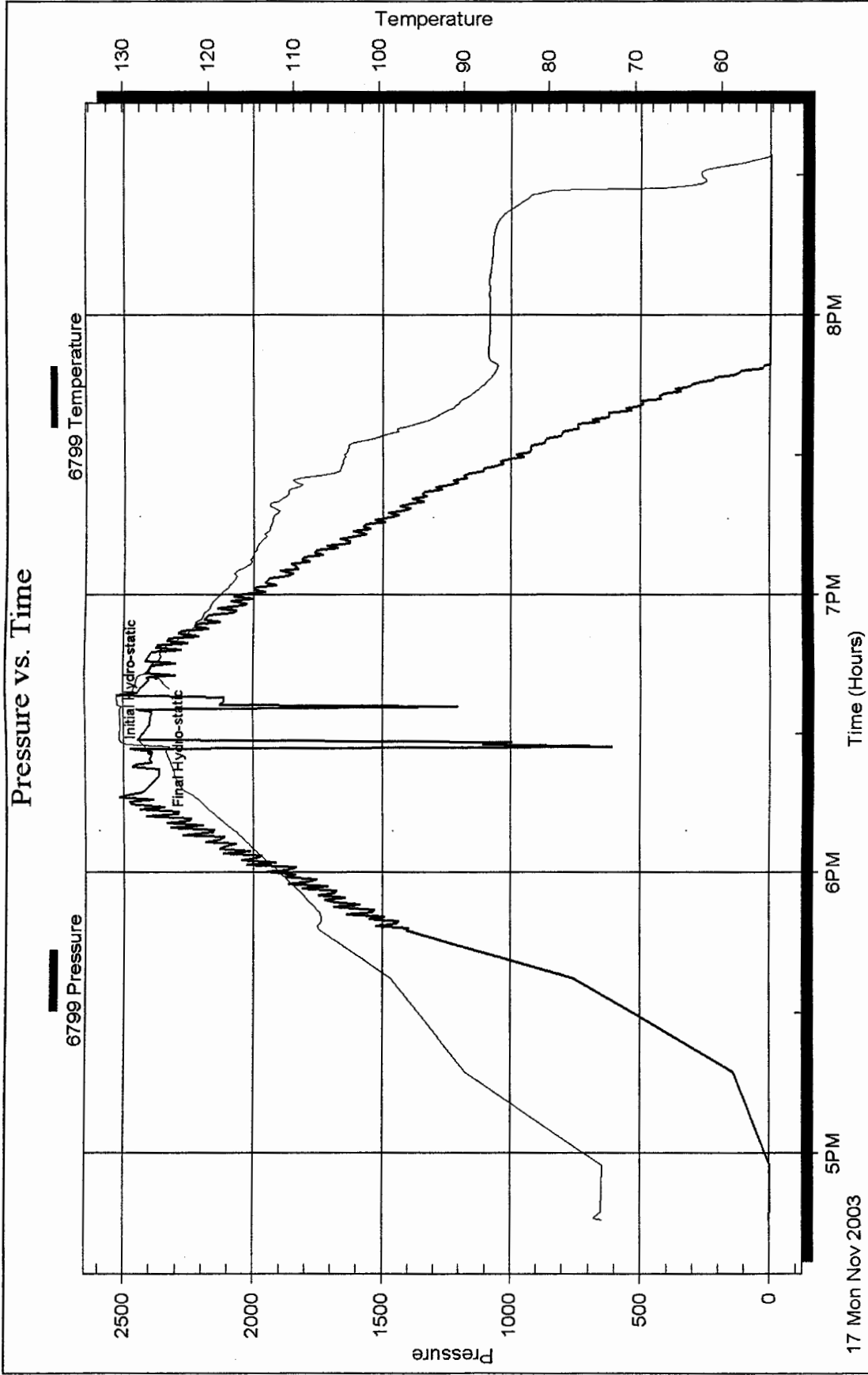
Recovery Comments:

Serial #: 6799

Inside Red Oak Energy Inc

23-16S-42W Greeley

DST Test Number: 2

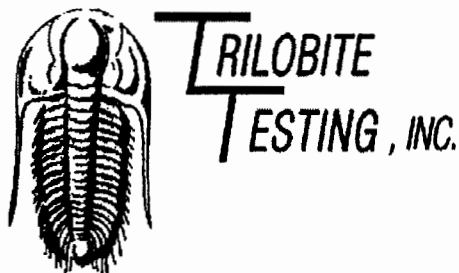


17 Mon Nov 2003

Trilobite Testing, Inc

Ref. No: 17747

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DRILL STEM TEST REPORT

Prepared For: **Red Oak Energy Inc**

7701 E. Kellogg Ste #710
Wichita KS 67207

ATTN: Kevin Davis

23-16S-42W Greeley

Barbara #1-23

Start Date: 2003.11.17 @ 21:00:35


End Date: 2003.11.17 @ 22:16:55

Job Ticket #: 17748 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

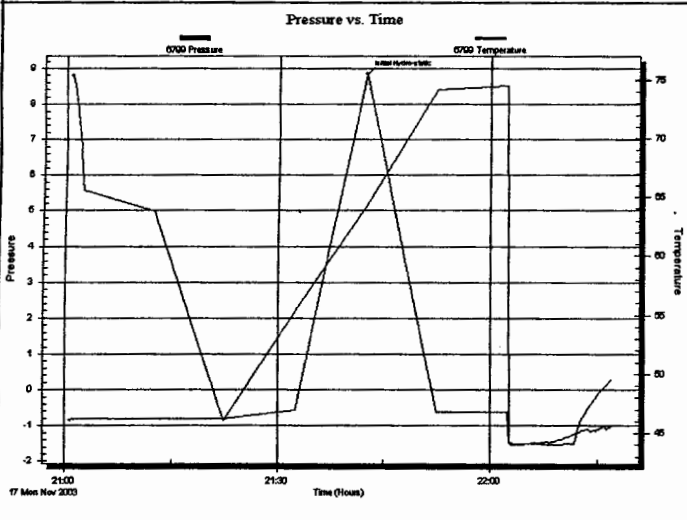
	DRILL STEM TEST REPORT	
	Red Oak Energy Inc 7701 E. Kellogg Ste #710 Wichita KS 67207 ATTN: Kevin Davis	Barbara #1-23 23-16S-42W Greeley Job Ticket: 17748 DST#: 3 Test Start: 2003.11.17 @ 21:00:35

GENERAL INFORMATION:

Formation: Lower Morrow	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Rod Steinbrink
Time Tool Opened:	Unit No: 22
Time Test Ended: 22:16:55	Reference Elevations: 3805.00 ft (KB)
Interval: 5056.00 ft (KB) To 5170.00 ft (KB) (TVD)	3793.00 ft (CF)
Total Depth: 5170.00 ft (KB) (TVD)	KB to GR/CF: 12.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 6799	Inside		
Press@RunDepth: psig @ 5057.00 ft (KB)	Capacity: 7000.00 psig		
Start Date: 2003.11.17	End Date: 2003.11.17	Last Calib.: 1899.12.30	
Start Time: 21:00:35	End Time: 22:16:55	Time On Btm: 2003.11.17 @ 21:42:25	
		Time Off Btm:	

TEST COMMENT: TH w /360" DC not able to fill Hole TOH Lay Down Tool



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	8.84	64.23	Initial Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00		0.00

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Red Oak Energy Inc
7701 E. Kellogg Ste #710
Wichita KS 67207
ATTN: Kevin Davis

Barbara #1-23
23-16S-42W Greeley
Job Ticket: 17748 **DST#: 3**
Test Start: 2003.11.17 @ 21:00:35

Tool Information

Drill Pipe:	Length: 4476.00 ft	Diameter: 3.80 inches	Volume: 62.79 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: lb
Drill Collar:	Length: 571.00 ft	Diameter: 2.25 inches	Volume: 2.81 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 65.60 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial lb
Depth to Top Packer:	5056.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.00 ft			
Tool Length:	141.00 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			5034.00	
Hydraulic tool	5.00			5039.00	
Jars	5.00			5044.00	
Safety Joint	2.00			5046.00	
Packer	5.00			5051.00	27.00 Bottom Of Top Packer
Packer	5.00			5056.00	
Stubb	1.00			5057.00	
Recorder	0.00	6799	Inside	5057.00	
Perforations	11.00			5068.00	
Change Over Sub	1.00			5069.00	
Anchor	95.00			5164.00	
Change Over Sub	1.00			5165.00	
Recorder	0.00	13371	Outside	5165.00	
Bullnose	5.00			5170.00	114.00 Bottom Packers & Anchor

Total Tool Length: 141.00



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FLUID SUMMARY

Red Oak Energy Inc
7701 E. Kellogg Ste #710
Wichita KS 67207
ATTN: Kevin Davis

Barbara #1-23
23-16S-42W Greeley
Job Ticket: 17748 DST#: 3
Test Start: 2003.11.17 @ 21:00:35

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: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length: ft Total Volume: bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

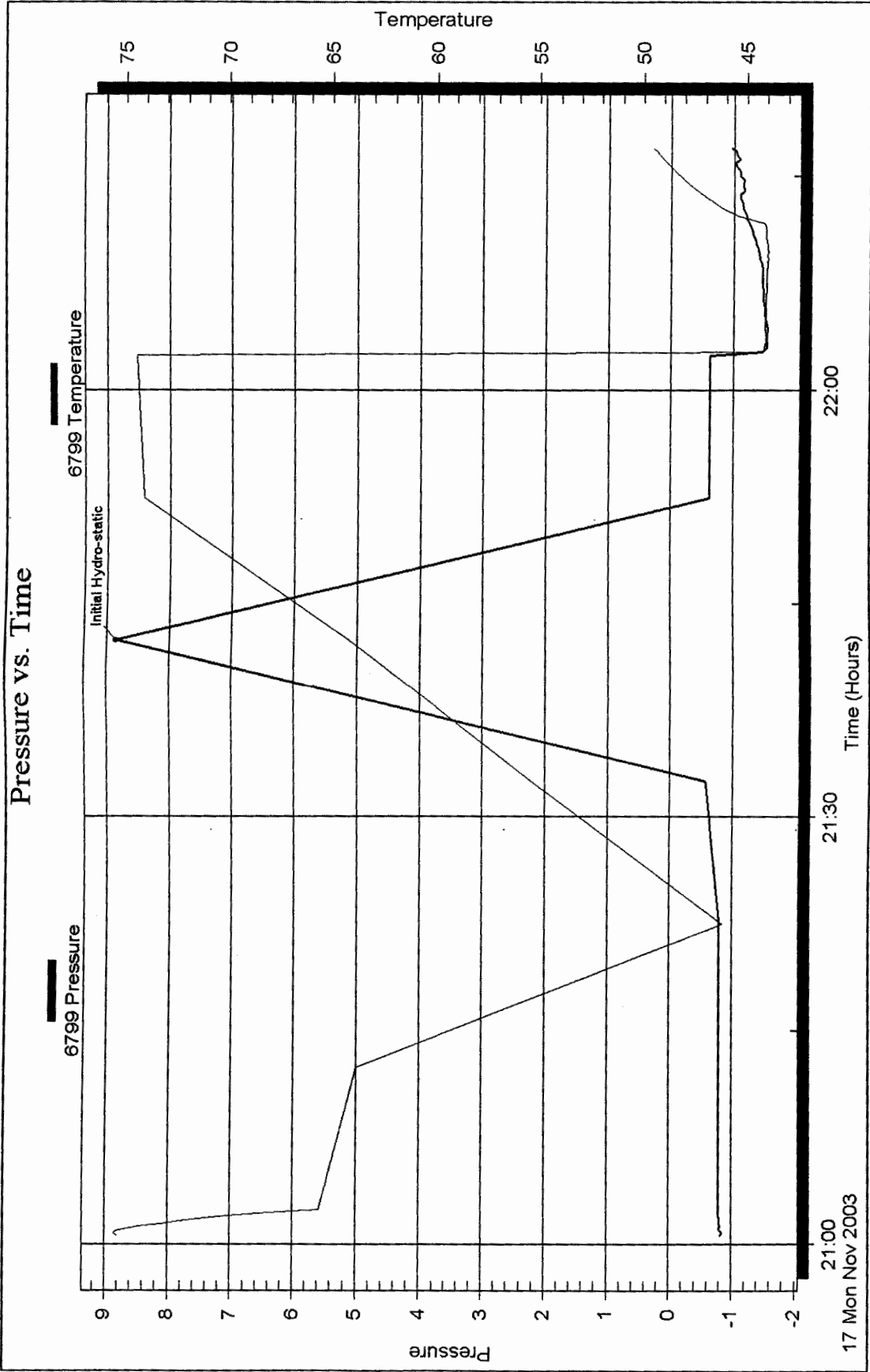
Serial #: 6799

Inside Red Oak Energy Inc

23-16S-42W Greeley

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 17748

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