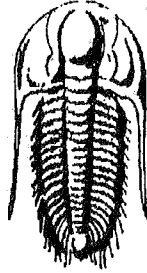


23-16s-42w

23-16s-42w  
M/N EN 2W  
N/2



**TRILOBITE**  
**TESTING, INC.**

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### DRILL STEM TEST REPORT

Prepared For: **Red Oak Energy Inc.**

7701 E Kellogg #710  
Wichita, KS 67207

ATTN: Scott Banks

**23-16S-42W Greeley**

**Barbara Young #1**

Start Date: 2004.11.02 @ 12:12:07

End Date: 2004.11.02 @ 16:24:52

Job Ticket #: 20126                      DST #: 1

15-071-20801-00-00

120 FNL 2140 FWL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Red Oak Energy Inc.

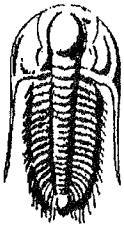
Barbara Young #1

23-16S-42W Greeley

DST # 1

Morrow

2004.11.02



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Red Oak Energy Inc.  
7701 E Kellogg #710  
Wichita, KS 67207  
ATTN: Scott Banks

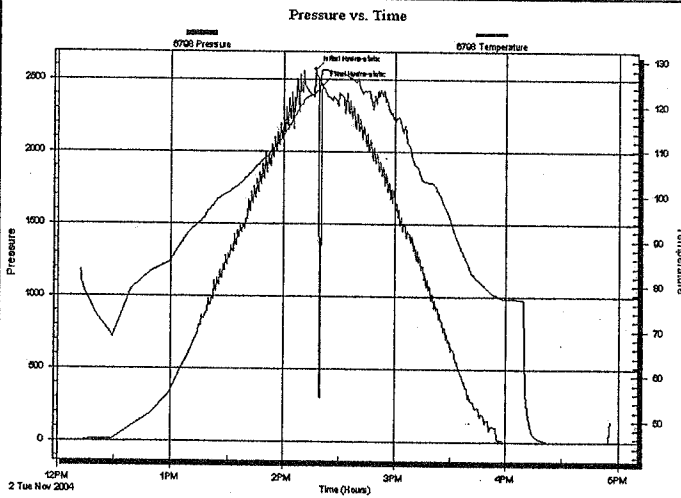
**Barbara /Young #1**  
**23-16S-42W Greeley**  
Job Ticket: 20126      DST#: 1  
Test Start: 2004.11.02 @ 12:12:07

### GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 14:19:00  
Time Test Ended: 16:24:52  
Interval: **4948.00 ft (KB) To 4994.00 ft (KB) (TVD)**  
Total Depth: **5150.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Rod Steinbrink**  
Unit No: **22**  
Reference Elevations: **3812.00 ft (KB)**  
**3800.00 ft (CF)**  
KB to GR/CF: **12.00 ft**

**Serial #: 6798**      **Inside**  
Press@RunDepth:                      psig @      4949.00 ft (KB)  
Start Date:                      2004.11.02      End Date:                      2004.11.02      Capacity:                      7000.00 psig  
Start Time:                      12:12:12      End Time:                      16:55:51      Last Calib.:                      1899.12.30  
Time On Btm:                      2004.11.02 @ 14:17:07  
Time Off Btm:                      2004.11.02 @ 14:20:37

TEST COMMENT: IF; Packer seat failed - TOH w /tool



### PRESSURE SUMMARY

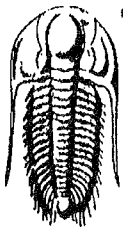
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2565.85	123.04	Initial Hydro-static
4	2459.57	127.99	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
200.00	Drig. Mud	0.98

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Red Oak Energy Inc.

7701 E Kellogg #710  
Wichita, KS 67207

ATTN: Scott Banks

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Barbara /Young #1

23-16S-42W Greeley

Job Ticket: 20126

DST#: 1

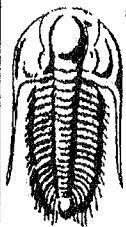
Test Start: 2004.11.02 @ 12:12:07

**Tool Information**

Drill Pipe:	Length: 4361.00 ft	Diameter: 3.80 inches	Volume: 61.17 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: 40000.00 lb
Drill Collar:	Length: 577.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 64.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4948.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	202.00 ft			
Tool Length:	230.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4925.00	
Sampler	2.00			4927.00	
Hydraulic tool	5.00			4932.00	
Jars	5.00			4937.00	
Safety Joint	2.00			4939.00	
Packer	5.00			4944.00	28.00 Bottom Of Top Packer
Packer	4.00			4948.00	
Stubb	1.00			4949.00	
Recorder	0.00	6798	Inside	4949.00	
Perforations	2.00			4951.00	
Recorder	0.00	13371	Outside	4951.00	
Change Over Sub	1.00			4952.00	
Anchor	31.00			4983.00	
Change Over Sub	1.00			4984.00	
Anchor	5.00			4989.00	
Blank Off Sub	1.00			4990.00	202.00 Tool Interval
Packer	4.00			4994.00	
Stubb	1.00			4995.00	
Anchor	24.00			5019.00	
Change Over Sub	1.00			5020.00	
Anchor	124.00			5144.00	
Change Over Sub	1.00			5145.00	
Recorder	0.00	13309	Below	5145.00	
Bullnose	5.00			5150.00	1000229.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>230.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Red Oak Energy Inc.

**Barbara /Young #1**

7701 E Kellogg #710  
Wichita, KS 67207

**23-16S-42W Greeley**

Job Ticket: 20126

DST#: 1

ATTN: Scott Barks

Test Start: 2004.11.02 @ 12:12:07

## 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: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Drig. 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: Sampler Data; 2,000 ml Drig. Mud

DST Test Number: 1

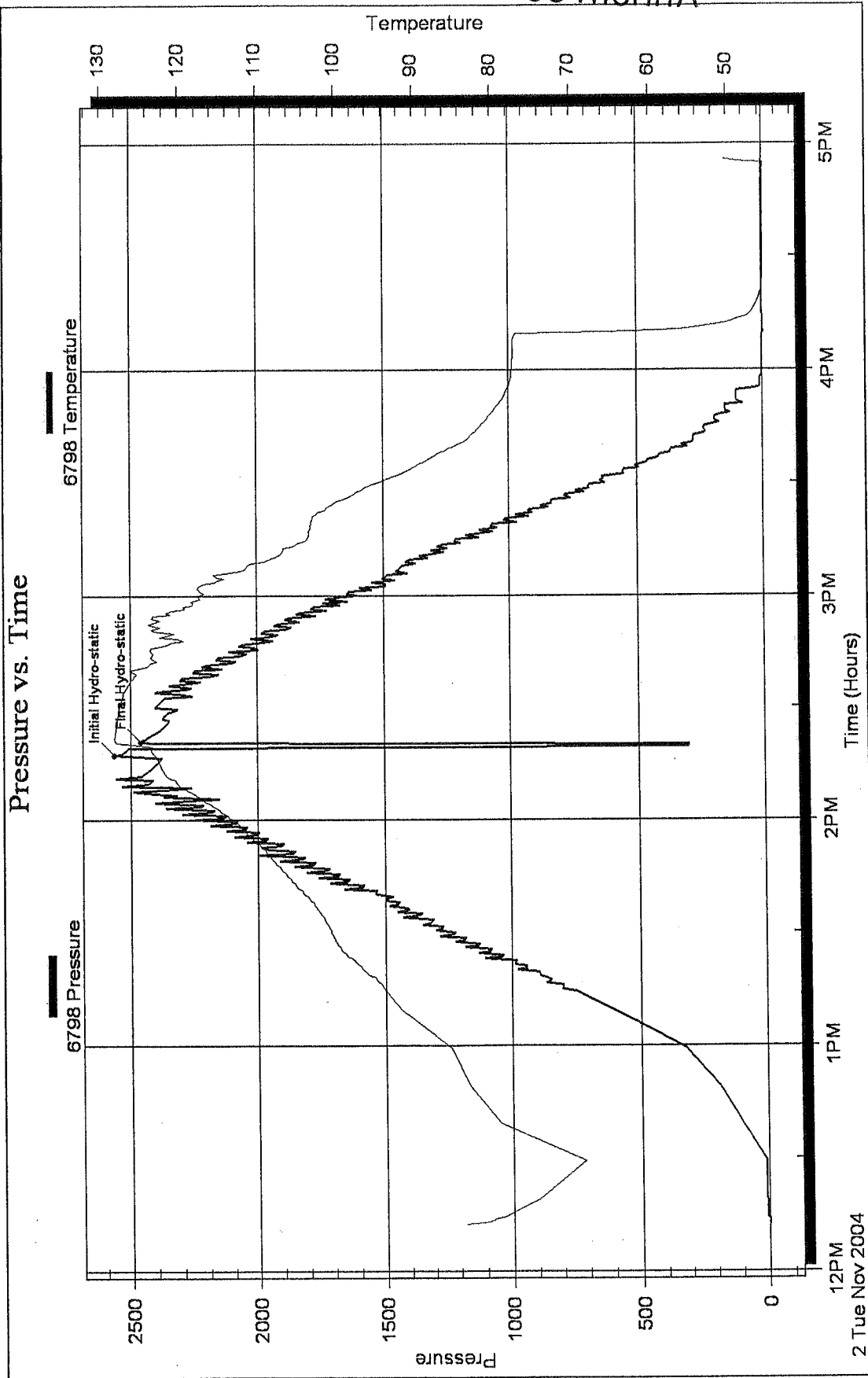
23-16S-42W Greeley

Red Oak Energy Inc.

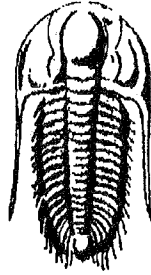
Inside

Serial #: 6798

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KCC WICHITA



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Red Oak Energy Inc.**

7701 E Kellogg #710  
Wichita, KS 67207

ATTN: Scott Banks

**23-16S-42W Greeley**

**Barbara /Young #1**

Start Date: 2004.11.02 @ 16:33:33

End Date: 2004.11.03 @ 01:40:18

Job Ticket #: 20127                      DST #: 2

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

Red Oak Energy Inc.

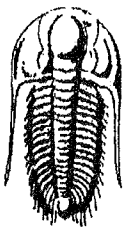
Barbara /Young #1

23-16S-42W Greeley

DST # 2

Morrow

2004.11.02



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**DRILL STEM TEST REPORT**

Red Oak Energy Inc.  
7701 E Kellogg #710  
Wichita, KS 67207  
ATTN: Scott Banks

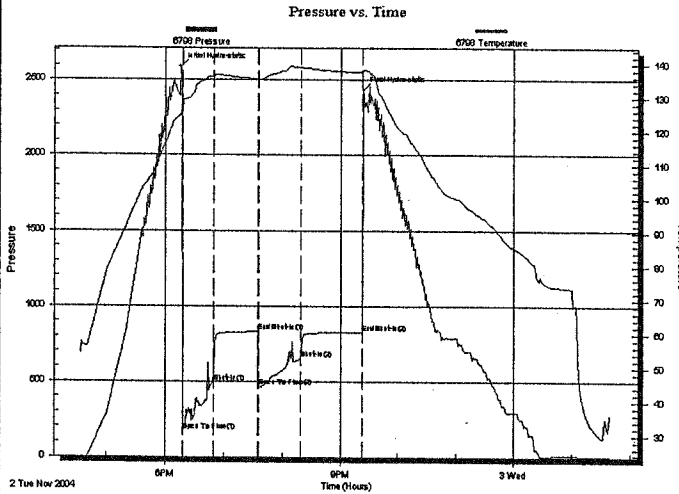
**Barbara /Young #1**  
**23-16S-42W Greeley**  
Job Ticket: 20127 **DST#: 2**  
Test Start: 2004.11.02 @ 16:33:33

**GENERAL INFORMATION:**

Formation: **Morrow**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 18:17:33  
Time Test Ended: 01:40:18  
Interval: **4920.00 ft (KB) To 4994.00 ft (KB) (TVD)**  
Total Depth: **5150.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Rod Steinbrink**  
Unit No: **22**  
Reference Elevations: **3812.00 ft (KB)**  
**3800.00 ft (CF)**  
KB to GR/CF: **12.00 ft**

**Serial #: 6798** **Inside**  
Press@RunDepth: **649.40 psig @ 4921.00 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2004.11.02** End Date: **2004.11.03** Last Calib.: **1899.12.30**  
Start Time: **16:33:38** End Time: **01:40:18** Time On Btm: **2004.11.02 @ 18:15:33**  
Time Off Btm: **2004.11.02 @ 21:23:03**

**TEST COMMENT:** IF: Strong blow off btm in 3 mins  
IS; GTS w hile bleeding off (no return blow in final 15 mins)  
FF; Fair to strong off btm in 4 mins ( Gas burns but TSTM)  
FS; 30 mins to bleed off - return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2586.80	124.95	Initial Hydro-static
2	170.21	125.93	Open To Flow (1)
34	493.80	136.34	Shut-In(1)
79	828.37	135.52	End Shut-In(1)
80	463.27	135.30	Open To Flow (2)
123	649.40	139.01	Shut-In(2)
187	825.84	137.52	End Shut-In(2)
188	2433.92	138.19	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
1475.00	CGO 45%g 55%o	15.43
200.00	GOCM 25%g 5%o 70%m	2.81

**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 #710  
Wichita, KS 67207  
ATTN: Scott Banks

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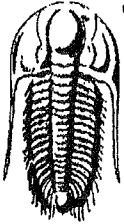
Barbara /Young #1  
23-16S-42W Greeley  
Job Ticket: 20127 DST#: 2  
Test Start: 2004.11.02 @ 16:33:33

**Tool Information**

Drill Pipe:	Length: 4330.00 ft	Diameter: 3.80 inches	Volume: 60.74 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: 35000.00 lb
Drill Collar:	Length: 577.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 63.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4920.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	231.00 ft			
Tool Length:	259.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4897.00	
Sampler	2.00			4899.00	
Hydraulic tool	5.00			4904.00	
Jars	5.00			4909.00	
Safety Joint	2.00			4911.00	
Packer	5.00			4916.00	28.00 Bottom Of Top Packer
Packer	4.00			4920.00	
Stubb	1.00			4921.00	
Recorder	0.00	6798	Inside	4921.00	
Perforations	2.00			4923.00	
Recorder	0.00	13371	Outside	4923.00	
Change Over Sub	1.00			4924.00	
Anchor	60.00			4984.00	
Change Over Sub	1.00			4985.00	
Anchor	5.00			4990.00	
Blank Off Sub	1.00			4991.00	231.00 Tool Interval
Packer	4.00			4995.00	
Stubb	1.00			4996.00	
Anchor	24.00			5020.00	
Change Over Sub	1.00			5021.00	
Anchor	124.00			5145.00	
Change Over Sub	1.00			5146.00	
Recorder	0.00	13309	Below	5146.00	
Bullnose	5.00			5151.00	1000258.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>259.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Red Oak Energy Inc.

**Barbara /Young #1**

7701 E Kellogg #710  
Wichita, KS 67207

**23-16S-42W Greeley**

Job Ticket: 20127

**DST#: 2**

ATTN: Scott Banks

Test Start: 2004.11.02 @ 16:33:33

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
1475.00	CGO 45%g 55%o	15.434
200.00	GOCM 25%g 5%o 70%m	2.805

Total Length: 1675.00 ft      Total Volume: 18.239 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data;  
Gas; 1600ml

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DST Test Number: 2

23-16S-42W Greeley

Red Oak Energy Inc.

Serial #: 6798

### Pressure vs. Time

