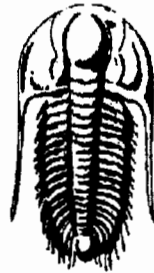


15-135-24633

18-17s-24w

END



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Randy Kilian

18 17S 24W Ness KS

Potter D #2

Start Date: 2007.04.22 @ 02:27:06

End Date: 2007.04.22 @ 09:06:00

Job Ticket #: 26636 DST #: 1

**KCC
AUG 03 2007
CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

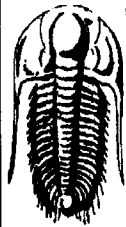
Potter D #2

18 17S 24W Ness KS

DST # 1

Cherokee Sand

2007.04.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Kilian

Potter D #2

18 17S 24W Ness KS

Job Ticket: 26636

DST#: 1

Test Start: 2007.04.22 @ 02:27:06

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:44:01

Time Test Ended: 09:06:00

Interval: **4311.00 ft (KB) To 4360.00 ft (KB) (TVD)**

Total Depth: 4360.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2408.00 ft (KB)

2401.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press@RunDepth: 161.33 psig @ 4312.00 ft (KB)

Start Date: 2007.04.22

End Date:

2007.04.22

Capacity: 7000.00 psig

Last Calib.: 2007.04.22

Start Time: 02:27:06

End Time:

09:06:00

Time On Btm: 2007.04.22 @ 04:43:31

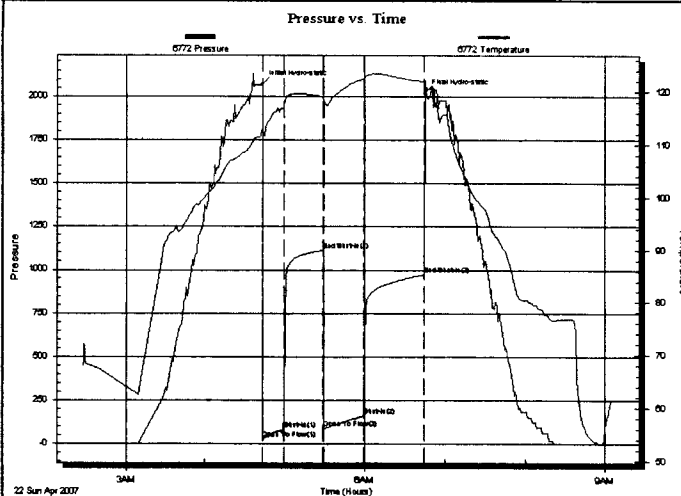
Time Off Btm: 2007.04.22 @ 06:44:45

TEST COMMENT: IF 1 blow built to 7 in 15 min.

IS No return

FF BOB in 18 min.

FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.13	112.80	Initial Hydro-static
1	29.28	112.11	Open To Flow (1)
16	84.46	117.03	Shut-In(1)
46	1113.90	119.10	End Shut-In(1)
47	89.64	118.18	Open To Flow (2)
76	161.33	122.43	Shut-In(2)
121	974.75	121.97	End Shut-In(2)
122	2017.49	122.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 30%G 10%O 60%M	1.47
124.00	MCOG 20%G 40%O 40%M	1.74
155.00	GO 20%G 80%O	2.17

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Potter D #2

PO Box 352
Russell KS 67665

18 17S 24W Ness KS

Job Ticket: 26636

DST#: 1

ATTN: Randy Kilian

Test Start: 2007.04.22 @ 02:27:06

Tool Information

Drill Pipe:	Length: 4289.00 ft	Diameter: 3.80 inches	Volume: 60.16 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	60.31 bbl	Tool Chased	5.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4311.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4292.00	
Shut In Tool	5.00			4297.00	
Hydraulic tool	5.00			4302.00	
Packer	5.00			4307.00	20.00 Bottom Of Top Packer
Packer	4.00			4311.00	
Stubb	1.00			4312.00	
Recorder	0.00	6772	Inside	4312.00	
Perforations	10.00			4322.00	
Change Over Sub	1.00			4323.00	
Drill Pipe	31.00			4354.00	
Change Over Sub	1.00			4355.00	
Recorder	0.00	7437	Outside	4355.00	
Bullnose	5.00			4360.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Potter D #2

PO Box 352
Russell KS 67665

18 17S 24W Ness KS

Job Ticket: 26636

DST#: 1

ATTN: Randy Kilian

Test Start: 2007.04.22 @ 02:27:06

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:

0 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM 30%G 10%O 60%M	1.466
124.00	MCGO 20%G 40%O 40%M	1.739
155.00	GO 20%G 80%O	2.174

Total Length: 403.00 ft

Total Volume: 5.379 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

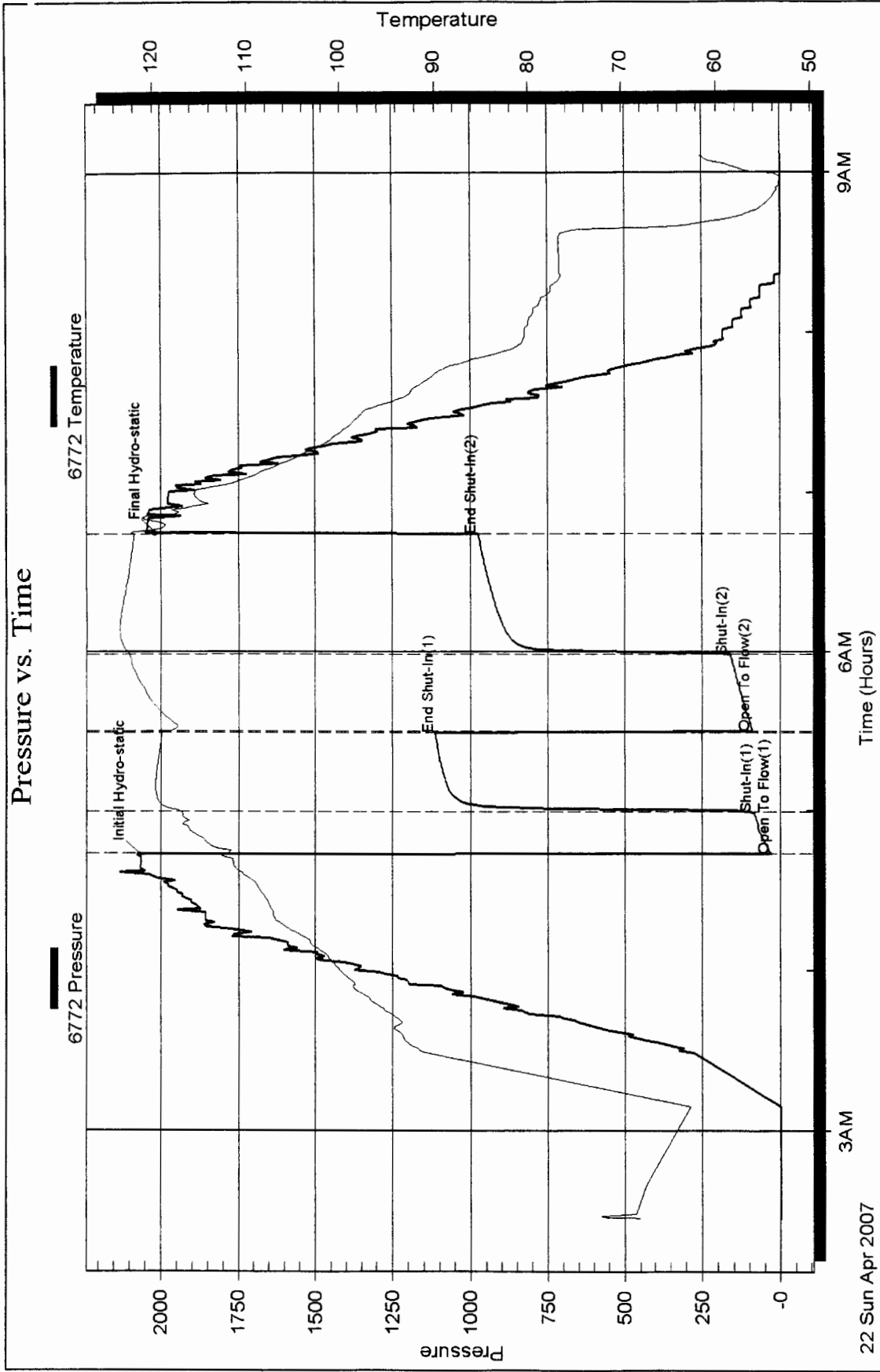
18 17S 24W Ness KS

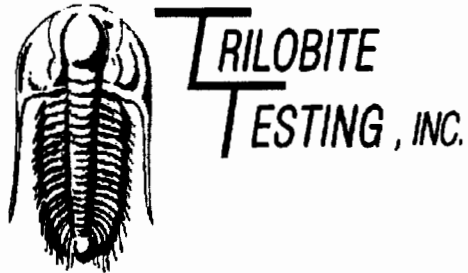
John O Farmer Inc

Inside

Serial #: 6772

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Randy Kilian

18 17S 24W Ness KS

Potter D #2

Start Date: 2007.04.22 @ 15:29:28

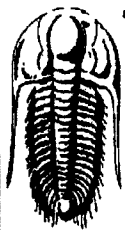
End Date: 2007.04.22 @ 23:01:52

Job Ticket #: 26637 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

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Kilian

Potter D #2

18 17S 24W Ness KS

Job Ticket: 26637

DST#: 2

Test Start: 2007.04.22 @ 15:29:28

GENERAL INFORMATION:

Formation: **Cherokee sand**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 17:47:38

Time Test Ended: 23:01:52

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4312.00 ft (KB) To 4370.00 ft (KB) (TVD)**

Total Depth: **4370.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2408.00 ft (KB)**

2401.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6772

Inside

Press@RunDepth: **184.44 psig @ 4313.00 ft (KB)**

Start Date: **2007.04.22**

End Date:

2007.04.22

Start Time: **15:29:28**

End Time:

23:01:52

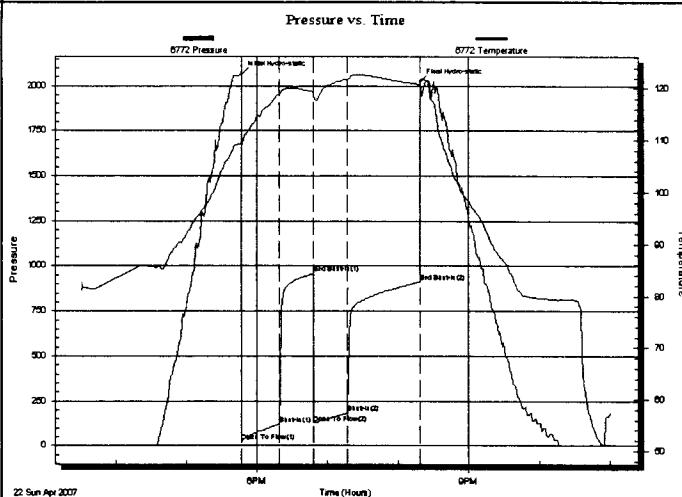
Capacity: **7000.00 psig**

Last Calib.: **2007.04.22**

Time On Btm: **2007.04.22 @ 17:47:23**

Time Off Btm: **2007.04.22 @ 20:18:22**

TEST COMMENT: IF BOB in 11 min.
IS Surface blow built to 1/4 in 30 min.
FF BOB in 12 min.
FS Surface blow built to 1/2 in 60 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.18	109.32	Initial Hydro-static
1	21.25	108.84	Open To Flow (1)
32	120.78	119.01	Shut-In (1)
61	957.41	119.40	End Shut-In (1)
61	127.89	118.78	Open To Flow (2)
90	184.44	121.77	Shut-In (2)
151	913.87	120.86	End Shut-In (2)
151	2020.24	121.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 30%G 10%O 60%M	1.47
248.00	GOCM 10%G 40%O 50%M	3.48
155.00	GO 20%G 80%O	2.17

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Potter D #2

PO Box 352
Russell KS 67665

18 17S 24W Ness KS

Job Ticket: 26637

DST#: 2

ATTN: Randy Kilian

Test Start: 2007.04.22 @ 15:29:28

Tool Information

Drill Pipe:	Length: 4290.00 ft	Diameter: 3.80 inches	Volume: 60.18 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	60.33 bbl	Tool Chased	1.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4312.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	78.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4293.00	
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00			4303.00	
Packer	5.00			4308.00	20.00 Bottom Of Top Packer
Packer	4.00			4312.00	
Stubb	1.00			4313.00	
Recorder	0.00	6772	Inside	4313.00	
Perforations	19.00			4332.00	
Change Over Sub	1.00			4333.00	
Drill Pipe	31.00			4364.00	
Change Over Sub	1.00			4365.00	
Recorder	0.00	7437	Outside	4365.00	
Bullnose	5.00			4370.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Potter D #2

PO Box 352
Russell KS 67665

18 17S 24W Ness KS

Job Ticket: 26637

DST#: 2

ATTN: Randy Kilian

Test Start: 2007.04.22 @ 15:29:28

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:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM 30%G 10%O 60%M	1.466
248.00	GOCM 10%G 40%O 50%M	3.479
155.00	GO 20%G 80%O	2.174

Total Length: 527.00 ft

Total Volume: 7.119 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

