

TRILOBITE
TESTING, INC.

CONFIDENTIAL
DRILL STEM TEST REPORT

Prepared For: **John O.Farmer, Inc.**

P.O.Box 352
Russell, Ks. 67665

ORIGINAL KCC

ATTN: John O.Farmer IV

MAR 11 2003

5--13s--17w

CONFIDENTIAL

Brungardt # 1

Start Date: 2003.01.21 @ 22:00:29

End Date: 2003.01.22 @ 05:31:29

Job Ticket #: 16832

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O.Farmer, Inc.

Brungardt # 1

5--13s--17w

DST # 1

Tor.-L.K.C.&D

2003.01.21

CONFIDENTIAL

112906

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O.Farmer, Inc.

Brungardt # 1

P.O.Box 352
Russell, Ks. 67665

5-13s-17w

Job Ticket: 16832

DST#: 1

ATTN: John O.Farmer IV

Test Start: 2003.01.21 @ 22:00:29

GENERAL INFORMATION:

Formation: Tor.-L.Kc.C&D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:58:59

Time Test Ended: 05:31:29

KCC

MAR 11 2003

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: 3255.00 ft (KB) To 3371.00 ft (KB) (TVD)

Total Depth: 3371.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2024.00 ft (KB)

2017.00 ft (CF)

KB to GR/CF: 7.00 ft

CONFIDENTIAL

Serial #: 3017

Inside

Press@RunDepth: 131.26 psig @ 3259.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.01.21

End Date:

2003.01.22

Last Calib.:

2003.01.22

Start Time: 22:00:31

End Time:

05:30:59

Time On Btm:

2003.01.21 @ 23:58:29

Time Off Btm:

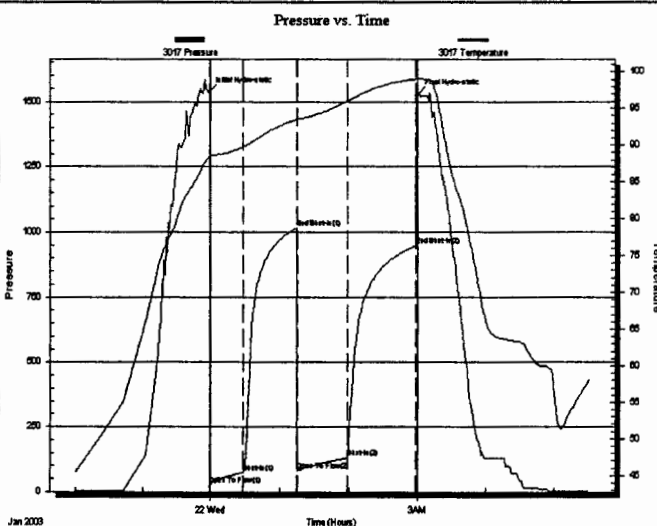
2003.01.22 @ 03:00:29

TEST COMMENT: IF-Strong B.O.B. 12 min.

ISI-Weak blow back

FF-Strong B.O.B. 13 min.

FSI-Good blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.37	88.34	Initial Hydro-static
1	27.00	88.43	Open To Flow (1)
30	74.94	89.77	Shut-in(1)
76	1014.64	93.50	End Shut-in(1)
77	82.61	93.56	Open To Flow (2)
120	131.26	95.99	Shut-in(2)
180	947.61	99.02	End Shut-in(2)
182	1531.16	99.06	Final Hydro-static

Recovery

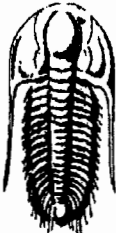
Length (ft)	Description	Volume (bbl)
60.00	G-O-W-C-mud-5%G-20%O-30%W-45%M-0.84	0.84
220.00	G-W-M-C-oil-5%G-10%W-35%M-50%O-3.09	3.09
0.00	350' GIP	0.00

Gas Rates

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

ORIGINAL

 TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT		TOOL DIAGRAM	
John O.Farmer, Inc. P.O.Box 352 Russell, Ks. 67665 ATTN: John O.Farmer IV		Brungardt # 1 5-13s-17w Job Ticket: 16832 DST#: 1 Test Start: 2003.01.21 @ 22:00:29			
Tool Information					
Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight:	3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			Total Volume: 45.73 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3255.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	116.02 ft				
Tool Length:	136.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					
KCC MAR 11 2003 CONFIDENTIAL					
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3236.00	
S.I. Tool	5.00			3241.00	
HMV	5.00			3246.00	
Packer	4.00			3250.00	20.00 Bottom Of Top Packer
Packer	5.00			3255.00	
Stubb	1.00			3256.00	
Perforations	2.00			3258.00	
C.O. Sub	1.00			3259.00	
Recorder	0.01	3017	Inside	3259.01	
Blank Spacing	93.00			3352.01	
C.O. Sub	1.00			3353.01	
Perforations	15.00			3368.01	
Recorder	0.01	13308	Outside	3368.02	
Bullnose	3.00			3371.02	116.02 Bottom Packers & Anchor
Total Tool Length:		136.02			


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O.Farmer, Inc.

Brungardt # 1

 P.O.Box 352
 Russell, Ks. 67665

5--13s--17w

Job Ticket: 16832

DST#: 1

ATTN: John O.Farmer IV

Test Start: 2003.01.21 @ 22:00:29

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:

60000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

 Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	G-O-W-C-mud-5%G-20%O-30%W-45%M	0.842
220.00	G-W-M-C-oil-5%G-10%W-35%M-50%O	3.086
0.00	350' GIP	0.000

Total Length: 280.00 ft

Total Volume: 3.928 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

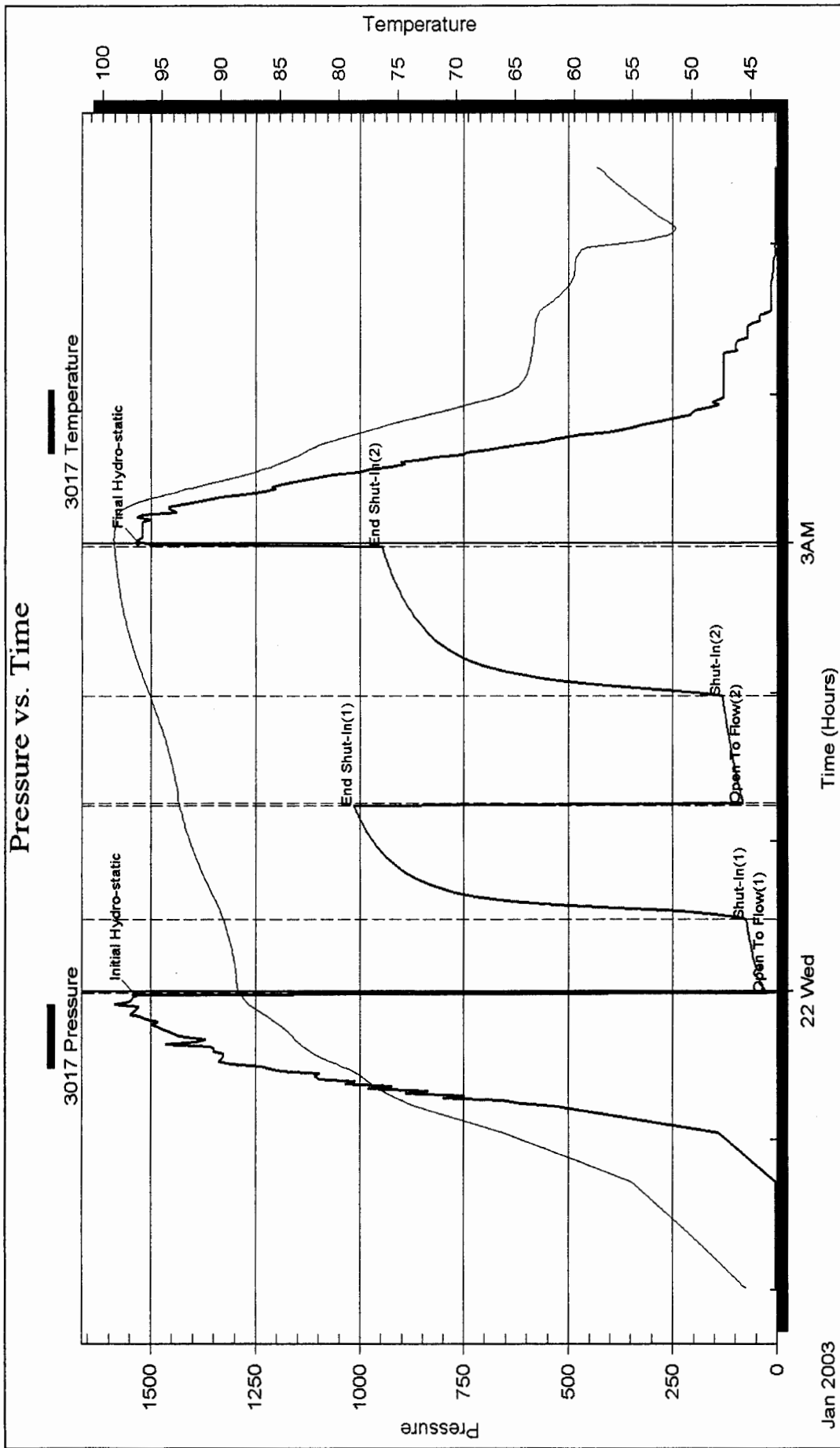
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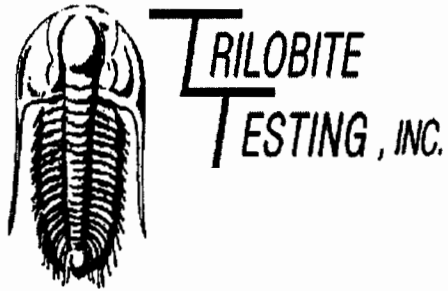
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O.Farmer,Inc.**

P.O.Box 352
Russell,Ks.67665

ATTN: John O.Farmer IV

5--13s--17w

Brungardt # 1

Start Date: 2003.01.22 @ 13:22:21

End Date: 2003.01.22 @ 19:57:51

Job Ticket #: 16833 DST #: 2

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

John O.Farmer,Inc.

Brungardt # 1

5--13s--17w

DST # 2

L.Kc.-F&G

2003.01.22

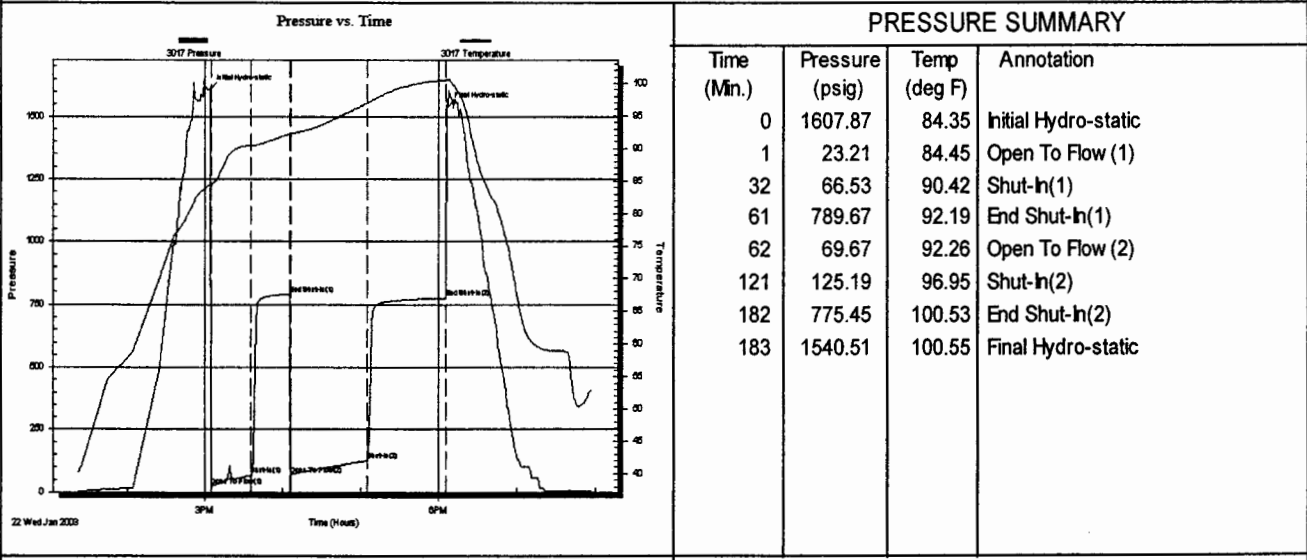
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	John O.Farmer, Inc.	Brungardt # 1
	P.O.Box 352 Russell, Ks. 67665	5--13s--17w
	ATTN: John O.Farmer IV	Job Ticket: 16833 DST#: 2 Test Start: 2003.01.22 @ 13:22:21

GENERAL INFORMATION:

Formation: L.Kc.-F&G Deviated: No Whipstock: ft (KB) Time Tool Opened: 15:04:51 Time Test Ended: 19:57:51 Interval: 3371.00 ft (KB) To 3417.00 ft (KB) (TVD) Total Depth: 3417.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: John Schmidt Unit No: 18 Reference Elevations: 2024.00 ft (KB) 2017.00 ft (CF) KB to GR/CF: 7.00 ft
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Serial #: 3017 Inside Press@RunDepth: 125.19 psig @ 3374.01 ft (KB) Start Date: 2003.01.22 End Date: 2003.01.22 Start Time: 13:22:23 End Time: 19:57:51	Capacity: 7000.00 psig Last Calib.: 2003.01.22 Time On Btm: 2003.01.22 @ 15:04:21 Time Off Btm: 2003.01.22 @ 18:06:51
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TEST COMMENT: IF-Strong B.O.B. in 30 min. ISI-Weak blow back
 FF-Strong B.O.B. in 35 min. FSI-Weak blow back



Recovery

Length (ft)	Description	Volume (bbl)
125.00	muddy water 30%M-70%W	1.75
60.00	G-O-W-C-M-5%G-10%O-20%W-65%M	0.84
45.00	G-O-C-M-5%G-40%O-55%M	0.63
0.00	150' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

Brungardt # 1

P.O. Box 352
Russell, Ks. 67665

5-13s-17w

Job Ticket: 16833

DST#: 2

ATTN: John O. Farmer IV

Test Start: 2003.01.22 @ 13:22:21

Tool Information

Drill Pipe:	Length: 3355.00 ft	Diameter: 3.80 inches	Volume: 47.06 bbl	Tool Weight:	3200.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb	
			Total Volume:	47.06 bbl	Tool Chased	5.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	44000.00 lb	
Depth to Top Packer:	3371.00 ft			Final	45000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	46.02 ft					
Tool Length:	66.02 ft					
Number of Packers:	2	Diameter:	6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3352.00	
S.I. Tool	5.00			3357.00	
HMV	5.00			3362.00	
Packer	4.00			3366.00	20.00 Bottom Of Top Packer
Packer	5.00			3371.00	
Stubb	1.00			3372.00	
Perforations	1.00			3373.00	
C.O. Sub	1.00			3374.00	
Recorder	0.01	3017	Inside	3374.01	
Blank Spacing	31.00			3405.01	
C.O. Sub	1.00			3406.01	
Perforations	8.00			3414.01	
Recorder	0.01	13308	Outside	3414.02	
Bullnose	3.00			3417.02	46.02 Bottom Packers & Anchor

Total Tool Length: 66.02

112906

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	John O.Farmer, Inc. P.O.Box 352 Russell, Ks. 67665 ATTN: John O.Farmer IV	Brungardt # 1 5-13s-17w Job Ticket: 16833 DST#: 2 Test Start: 2003.01.22 @ 13:22:21	

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:
Mud Weight: 9.00 lb/gal	Cushion Length: ft	deg API:
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	Water Salinity: 80000 ppm
Water Loss: 7.93 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: ppm		
Filter Cake: inches		

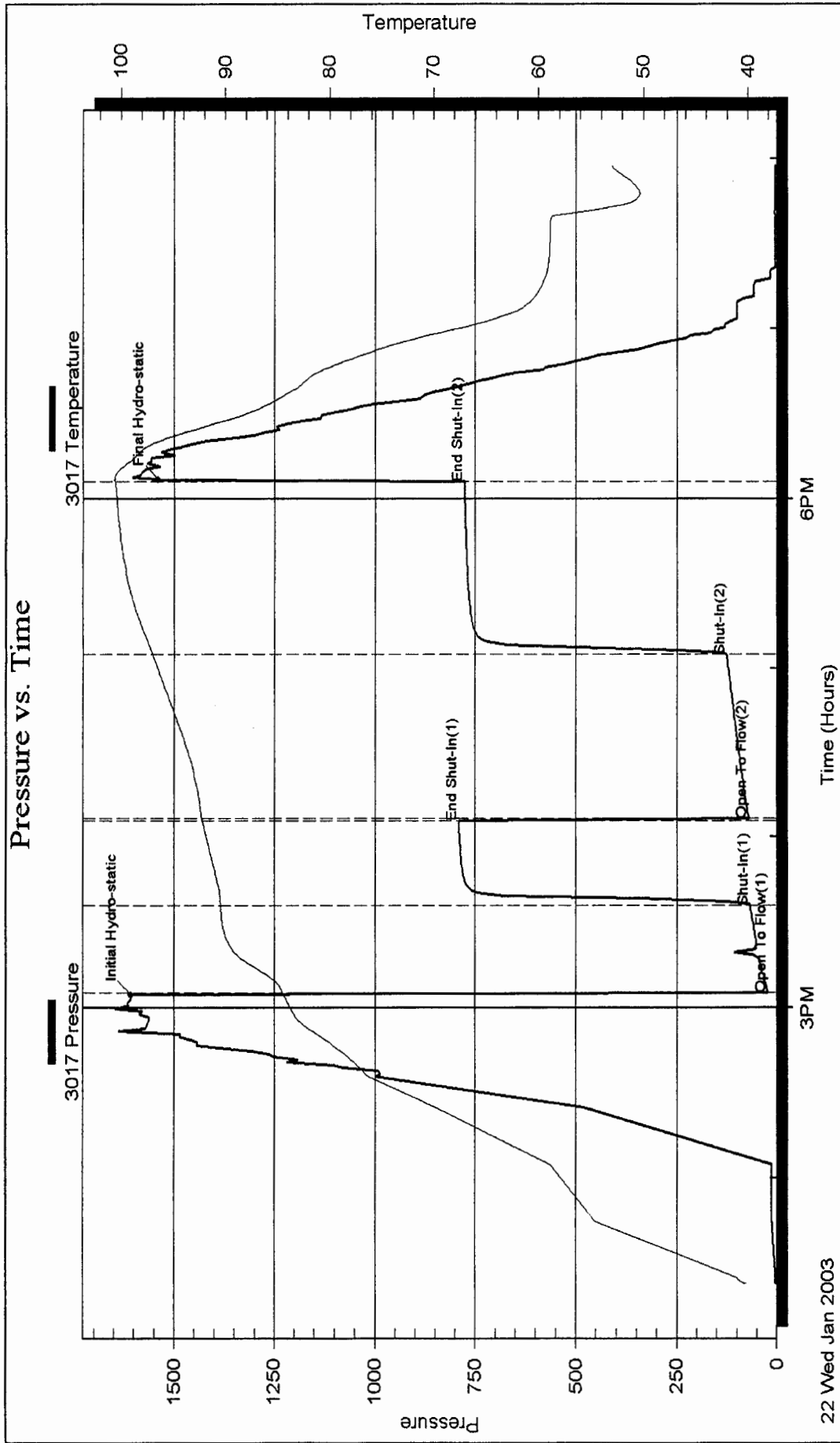
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	muddy water 30%M--70%W	1.753
60.00	G-O-W-C-M-5%G-10%O-20%W-65%M	0.842
45.00	G-O-C-M-5%G-40%O-55%M	0.631
0.00	150' GIP	0.000

Total Length: 230.00 ft	Total Volume: 3.226 bbl
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Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		





DRILL STEM TEST REPORT

Prepared For: **John O.Farmer,Inc.**

P.O.Box 352
Russell,Ks.67665

ATTN: John O.Farmer IV

5--13s--17w

Brungardt # 1

Start Date: 2003.01.23 @ 10:36:26

End Date: 2003.01.23 @ 18:10:24

Job Ticket #: 16834 DST #: 3

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

112906

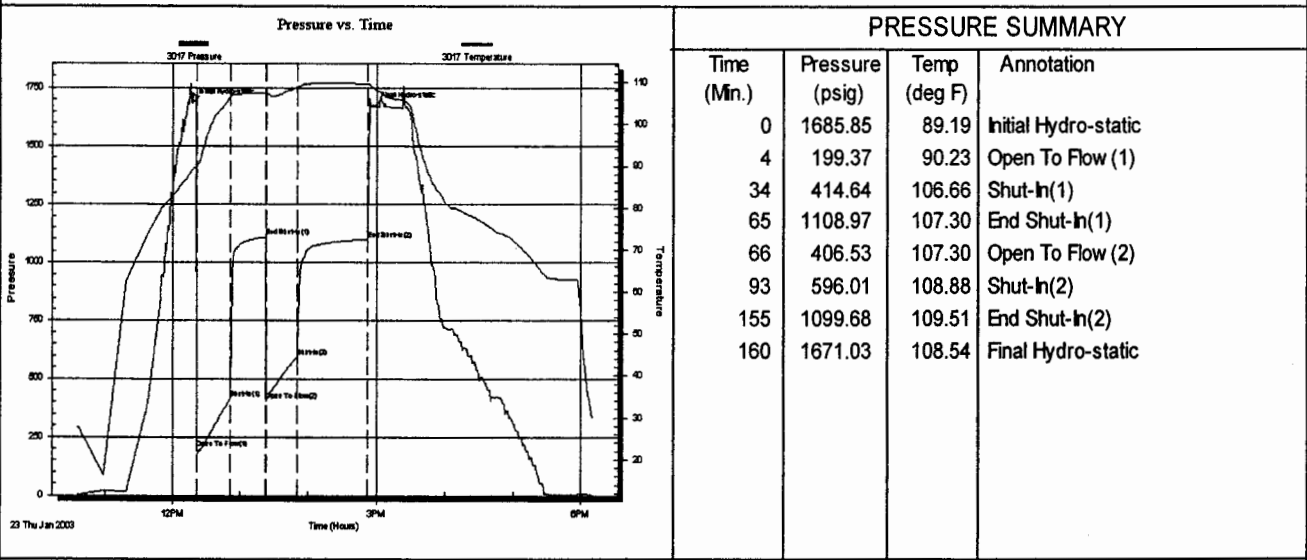
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
John O. Farmer, Inc. P.O. Box 352 Russell, Ks. 67665 ATTN: John O. Farmer IV	Brungardt # 1 5-13s-17w Job Ticket: 16834 DST#: 3 Test Start: 2003.01.23 @ 10:36:26		

GENERAL INFORMATION:

Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 12:21:24 Time Test Ended: 18:10:24 Interval: 3539.00 ft (KB) To 3578.00 ft (KB) (TVD) Total Depth: 3578.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Ray Schwager Unit No: 16 Reference Elevations: 2024.00 ft (KB) 2017.00 ft (CF) KB to GR/CF: 7.00 ft
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Serial #: 3017 Inside Press@RunDepth: 596.01 psig @ 3547.01 ft (KB) Start Date: 2003.01.23 End Date: 2003.01.23 Start Time: 10:36:26 End Time: 18:10:24	Capacity: 7000.00 psig Last Calib.: 2003.01.23 Time On Btm: 2003.01.23 @ 12:17:24 Time Off Btm: 2003.01.23 @ 14:57:24
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TEST COMMENT: IFP-w k to strg in 2 min
 FFP-w k to strg in 2 min
 Times 30-30-30-60
 w k bl bk on shut-in



Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
90.00	MGO 7%gas 73%oil 20%mud	1.26			
1430.00	Clean Oil	20.06			
0.00	60 GIP	0.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O.Farmer, Inc.

Brungardt # 1

P.O.Box 352
Russell, Ks. 67665

5-13s-17w

Job Ticket: 16834

DST#: 3

ATTN: John O.Farmer IV

Test Start: 2003.01.23 @ 10:36:26

Tool Information

Drill Pipe:	Length: 3539.00 ft	Diameter: 3.80 inches	Volume: 49.64 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 49.64 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3539.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.02 ft			
Tool Length:	59.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3520.00	
S.I. Tool	5.00			3525.00	
HMV	5.00			3530.00	
Packer	4.00			3534.00	20.00 Bottom Of Top Packer
Packer	5.00			3539.00	
Stubb	1.00			3540.00	
Perforations	7.00			3547.00	
Recorder	0.01	3017	Inside	3547.01	
Perforations	28.00			3575.01	
Recorder	0.01	13308	Outside	3575.02	
Bullnose	3.00			3578.02	39.02 Bottom Packers & Anchor

Total Tool Length: 59.02

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	John O.Farmer, Inc. P.O.Box 352 Russell, Ks. 67665 ATTN: John O.Farmer IV Brungardt # 1 5-13s-17w Job Ticket: 16834 DST#: 3 Test Start: 2003.01.23 @ 10:36:26		

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 24 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.95 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MGO 7%gas 73%oil 20%mud	1.262
1430.00	Clean Oil	20.059
0.00	60 GIP	0.000

Total Length: 1520.00 ft Total Volume: 21.321 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

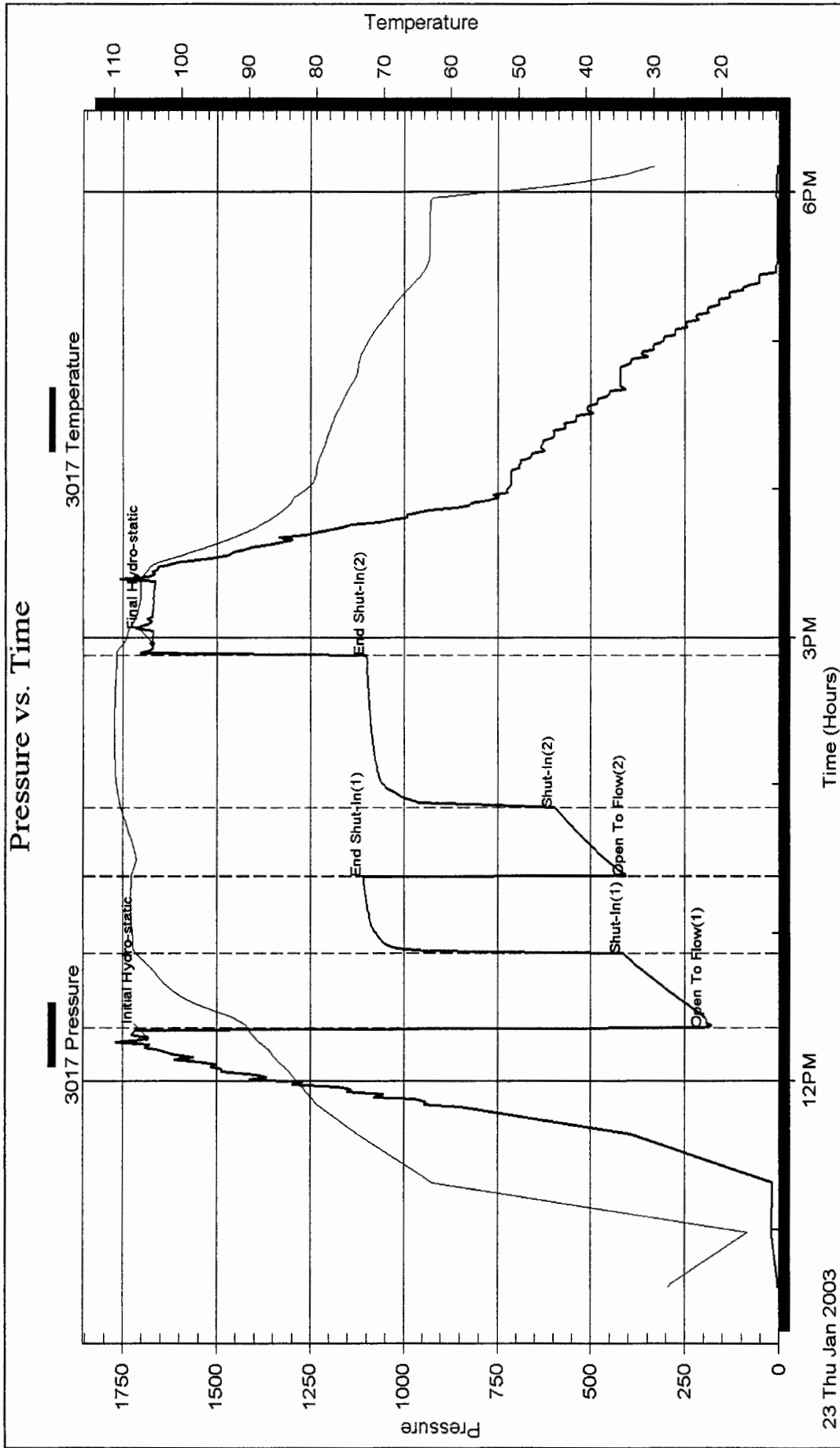
Serial #: 3017

Inside

John O. Farmer, Inc.

5--13s--17w

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **John O.Farmer,Inc.**

P.O.Box 352
Russell,Ks.67665

ATTN: John O.Farmer IV

5-13s-17w

Brungardt # 1

Start Date: 2003.01.24 @ 01:58:31

End Date: 2003.01.24 @ 09:31:59

Job Ticket #: 16835 DST #: 4

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

John O.Farmer,Inc.

Brungardt # 1

5-13s-17w

DST # 4

Arbuckle

2003.01.24


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.

Brungardt # 1

P.O. Box 352
Russell, Ks. 67665

5--13s--17w

Job Ticket: 16835

DST#: 4

ATTN: John O. Farmer IV

Test Start: 2003.01.24 @ 01:58:31

GENERAL INFORMATION:

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

Time Tool Opened: 04:10:29

Time Test Ended: 09:31:59

Test Type: **Conventional Bottom Hole**Tester: **Ray Schwager**Unit No: **16**Interval: **3583.00 ft (KB) To 3590.00 ft (KB) (TVD)**Total Depth: **3590.00 ft (KB) (TVD)**Hole Diameter: **7.88 inches** Hole Condition: **Fair**Reference Elevations: **2024.00 ft (KB)****2017.00 ft (CF)**KB to GR/CF: **7.00 ft**Serial #: **3017** InsidePress@RunDepth: **293.10 psig @ 3584.01 ft (KB)**Start Date: **2003.01.24**

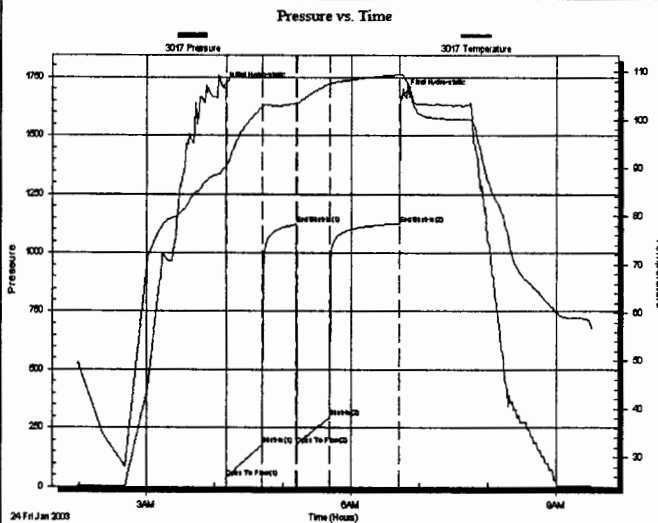
End Date:

2003.01.24Start Time: **01:58:31**

End Time:

09:31:59Capacity: **7000.00 psig**Last Calib.: **2003.01.24**Time On Btm: **2003.01.24 @ 04:07:29**Time Off Btm: **2003.01.24 @ 06:46:29**

TEST COMMENT: IFP-w k to strg in 4 min
FFP-w k to strg in 9 min
Times 30-30-30-60
no bl on shut-in



PRESSURE SUMMARY

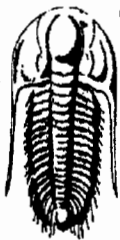
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.88	89.76	Initial Hydro-static
3	37.23	90.52	Open To Flow (1)
35	177.98	102.71	Shut-In(1)
64	1120.80	103.43	End Shut-In(1)
65	178.70	103.48	Open To Flow (2)
94	293.10	107.50	Shut-In(2)
156	1123.53	109.41	End Shut-In(2)
160	1680.26	108.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MGO 4%gas 86%oil 10%mud	0.42
720.00	Clean Oil	10.10

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.

P.O.Box 352
Russell, Ks. 67665

ATTN: John O.Farmer IV

Brungardt # 1

5-13s-17w

Job Ticket: 16835

DST#: 4

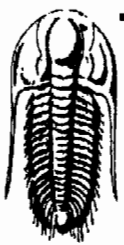
Test Start: 2003.01.24 @ 01:58:31

Tool Information

Drill Pipe:	Length: 3570.00 ft	Diameter: 3.80 inches	Volume: 50.08 bbl	Tool Weight:	3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 50.08 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3583.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.01 ft				
Tool Length:	27.01 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3564.00	
S.I. Tool	5.00			3569.00	
HMV	5.00			3574.00	
Packer	4.00			3578.00	20.00 Bottom Of Top Packer
Packer	5.00			3583.00	
Stubb	1.00			3584.00	
Recorder	0.01	3017	Inside	3584.01	
Perforations	3.00			3587.01	
Bullnose	3.00			3590.01	7.01 Bottom Packers & Anchor
Total Tool Length:	27.01				

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	John O.Farmer, Inc. P.O.Box 352 Russell, Ks. 67665 ATTN: John O.Farmer IV	Brungardt # 1 5-13s-17w Job Ticket: 16835 DST#: 4 Test Start: 2003.01.24 @ 01:58:31	

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 22 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.96 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

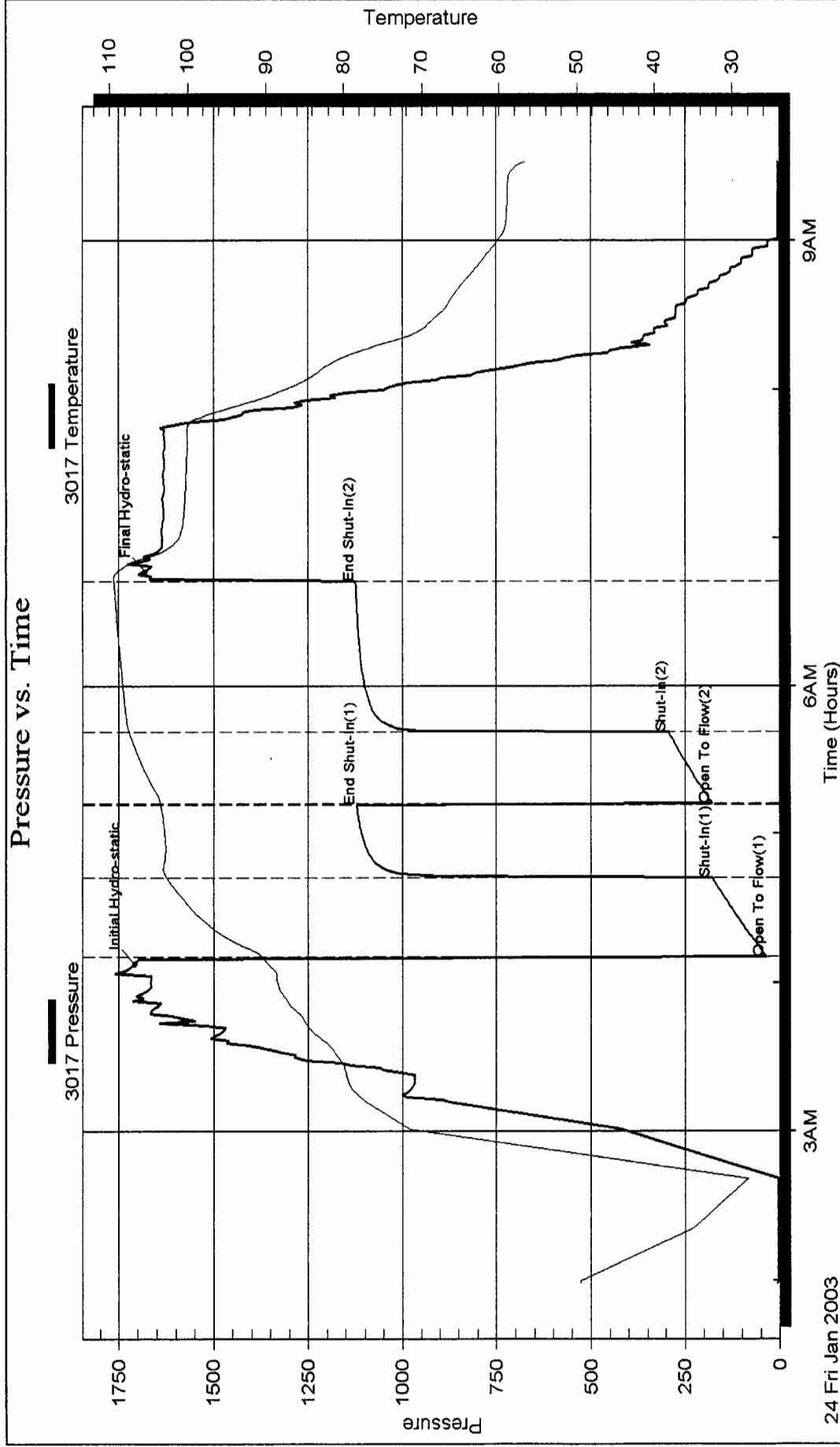
Length ft	Description	Volume bbl
30.00	MGO 4%gas 86%oil 10%mud	0.421
720.00	Clean Oil	10.100

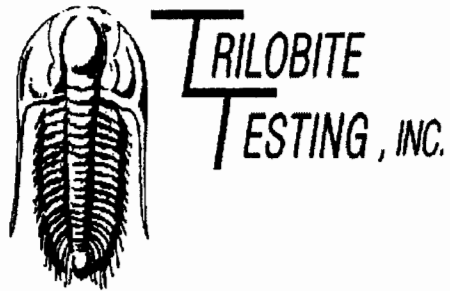
Total Length: 750.00 ft Total Volume: 10.521 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **John O.Farmer,Inc.**

P.O.Box 352
Russell,Ks.67665

ATTN: John O.Farmer IV

5--13s--17w

Brungardt # 1

Start Date: 2003.01.24 @ 15:38:45

End Date: 2003.01.24 @ 22:23:43

Job Ticket #: 16836 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O.Farmer,Inc.

Brungardt # 1

5--13s--17w

DST # 5

Arbuckle

2003.01.24

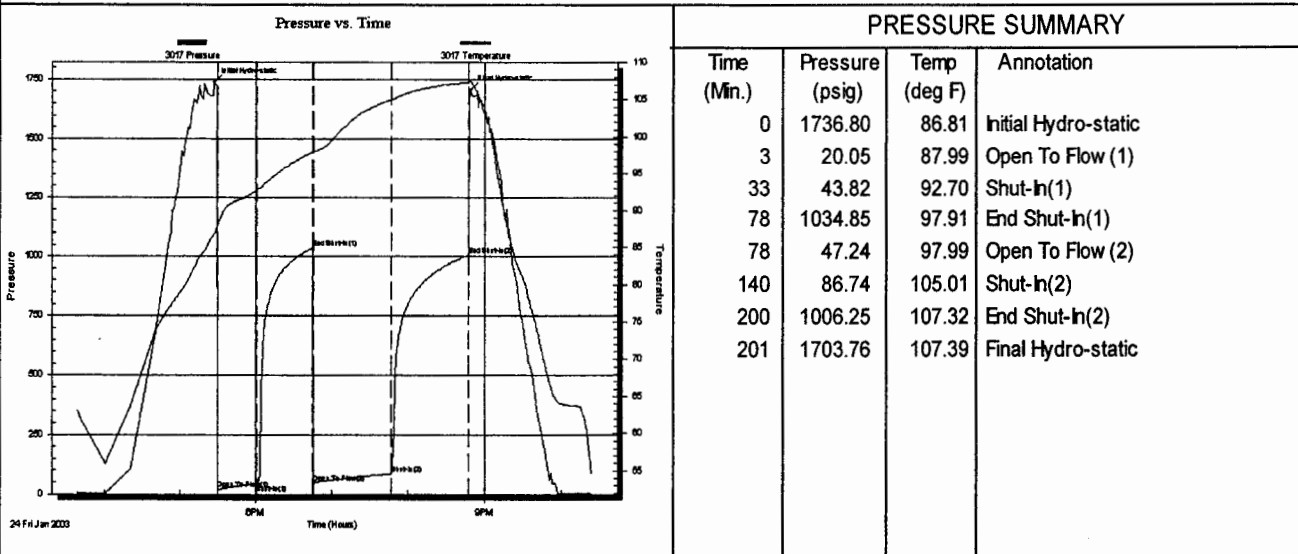
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
	John O.Farmer, Inc. P.O.Box 352 Russell, Ks. 67665 ATTN: John O.Farmer IV		Brungardt # 1 5--13s--17w Job Ticket: 16836 DST#: 5 Test Start: 2003.01.24 @ 15:38:45

GENERAL INFORMATION:

Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 17:30:13 Time Test Ended: 22:23:43 Interval: 3597.00 ft (KB) To 3604.00 ft (KB) (TVD) Total Depth: 3604.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Ray schwager Unit No: 16 Reference Elevations: 2024.00 ft (KB) 2017.00 ft (CF) KB to GR/CF: 7.00 ft
---	--

Serial #: 3017 Press@RunDepth: 86.74 psig @ 3598.01 ft (KB) Start Date: 2003.01.24 End Date: 2003.01.24 Start Time: 15:38:45 End Time: 22:23:43	Inside Capacity: 7000.00 psig Last Calib.: 2003.01.24 Time On Btm: 2003.01.24 @ 17:27:43 Time Off Btm: 2003.01.24 @ 20:48:43
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TEST COMMENT: IFP-w k bl thru-out 1/2" to 2" bl
 FFP-w k bl thru-out 1/4" to 1/2" bl
 Times 30-45-60-60
 no bl on shut-in



Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
140.00	Water w / show of oil	1.96			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O.Farmer, Inc.

Brungardt # 1

P.O.Box 352
Russell, Ks. 67665

5--13s--17w

Job Ticket: 16836

DST#: 5

ATTN: John O.Farmer IV

Test Start: 2003.01.24 @ 15:38:45

Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 50.53 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3597.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.01 ft			
Tool Length:	27.01 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3578.00	
S.I. Tool	5.00			3583.00	
HMV	5.00			3588.00	
Packer	4.00			3592.00	20.00 Bottom Of Top Packer
Packer	5.00			3597.00	
Stubb	1.00			3598.00	
Recorder	0.01	3017	Inside	3598.01	
Perforations	3.00			3601.01	
Bullnose	3.00			3604.01	7.01 Bottom Packers & Anchor
Total Tool Length:		27.01			

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	John O. Farmer, Inc. P.O. Box 352 Russell, Ks. 67665 ATTN: John O. Farmer IV		Brungardt # 1 5--13s--17w Job Ticket: 16836 DST#: 5 Test Start: 2003.01.24 @ 15:38:45

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: 40000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	Water w/ show of oil	1.964

Total Length: 140.00 ft Total Volume: 1.964 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .34 @ 35F

Pressure vs. Time

