

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

5 17S 30W Lane KS

Wilkins #C5

Start Date: 2007.01.30 @ 04:30:05

End Date: 2007.01.30 @ 16:49:35

Job Ticket #: 26597 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita KS 67278-3188
ATTN: Tom Pronold

Wilkins #C5
5 17S 30W Lane KS
Job Ticket: 26597 **DST#: 1**
Test Start: 2007.01.30 @ 04:30:05

GENERAL INFORMATION:

Formation: **Lansing "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:39:05
Time Test Ended: 16:49:35

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

Interval: **3953.00 ft (KB) To 3984.00 ft (KB) (TVD)**
Total Depth: 3984.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2870.00 ft (KB)
2862.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8017

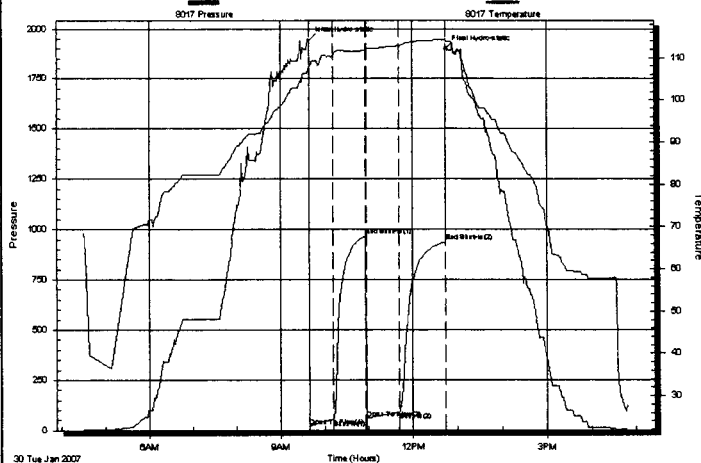
Inside

Press@RunDepth: 89.01 psig @ 3956.00 ft (KB)
Start Date: 2007.01.30 End Date: 2007.01.30
Start Time: 04:30:06 End Time: 16:49:35

Capacity: 7000.00 psig
Last Calib.: 2007.01.30
Time On Btm: 2007.01.30 @ 09:38:35
Time Off Btm: 2007.01.30 @ 12:44:05

TEST COMMENT: IF Surface blow built to 3 "
ISI No return
FF Surface blow built to 4 "
FSI No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.13	107.68	Initial Hydro-static
1	18.81	107.44	Open To Flow (1)
34	52.64	110.66	Shut-In(1)
78	967.63	111.76	End Shut-In(1)
78	57.68	111.31	Open To Flow (2)
124	89.01	112.92	Shut-In(2)
186	936.71	114.26	End Shut-In(2)
186	1897.91	114.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GO 5%G 95%O	0.20
10.00	GMCO 5%G 40%M 55%O	0.05
124.00	GWOCM 5%G 10%W 20%O 65%M	0.61

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26597

DST#: 1

ATTN: Tom Pronold

Test Start: 2007.01.30 @ 04:30:05

Tool Information

Drill Pipe:	Length: 3763.00 ft	Diameter: 3.80 inches	Volume: 52.78 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 53.68 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3953.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Packer	5.00			3949.00	20.00 Bottom Of Top Packer
Packer	4.00			3953.00	
Stubb	1.00			3954.00	
Perforations	2.00			3956.00	
Recorder	0.00	8017	Inside	3956.00	
Perforations	23.00			3979.00	
Recorder	0.00	13309	Inside	3979.00	
Bullnose	5.00			3984.00	31.00 Bottom Packers & Anchor

Total Tool Length: 51.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26597

DST#: 1

ATTN: Tom Pronold

Test Start: 2007.01.30 @ 04:30:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 41.00 sec/qt

Water Loss: 8.75 in³

Resistivity: 0.00 ohm.m

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

32 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GO 5%G 95%O	0.197
10.00	GMCO 5%G 40%M 55%O	0.049
124.00	GWOCM 5%G 10%W 20%O 65%M	0.610

Total Length: 174.00 ft Total Volume: 0.856 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

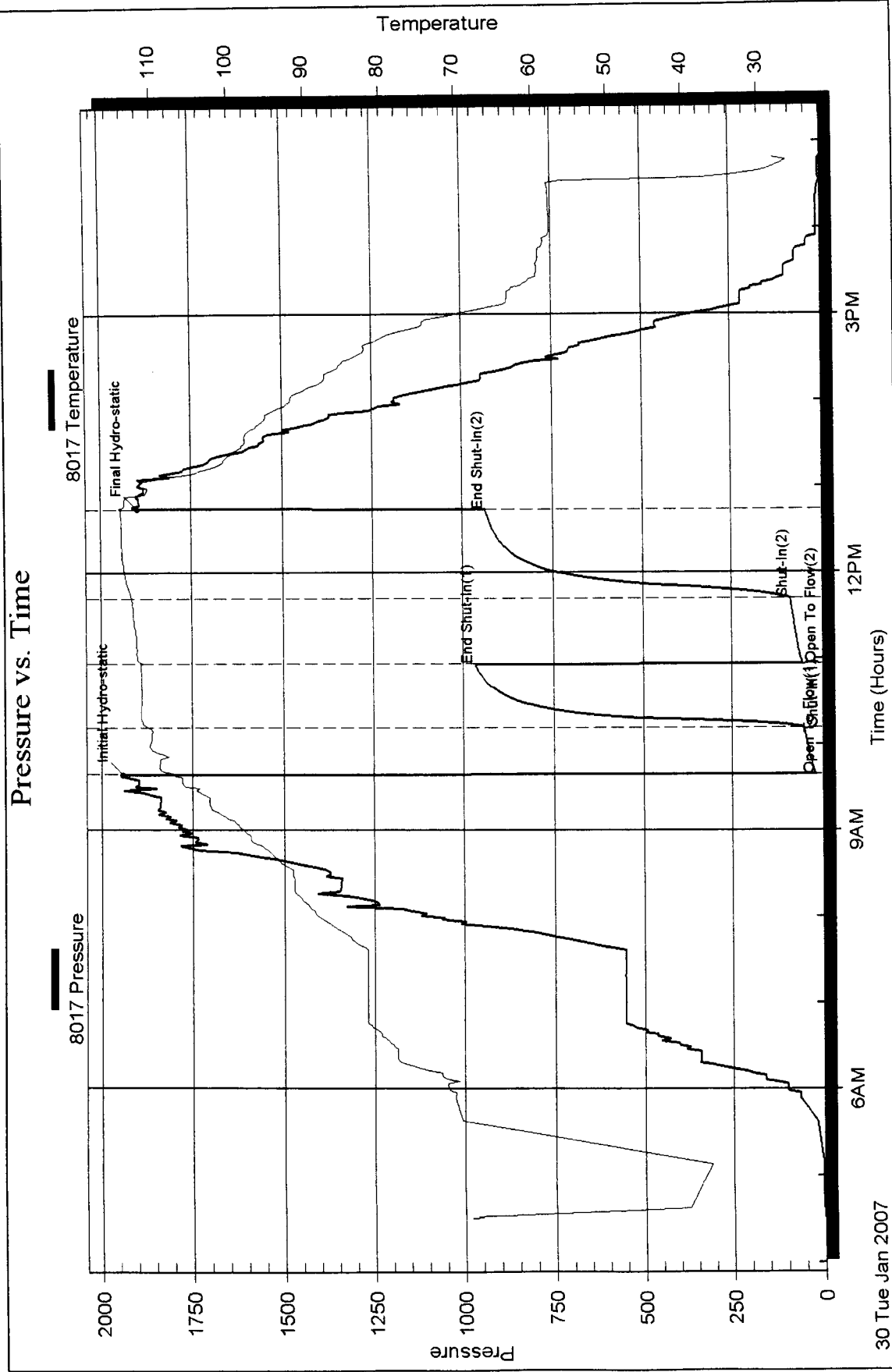
Serial #:

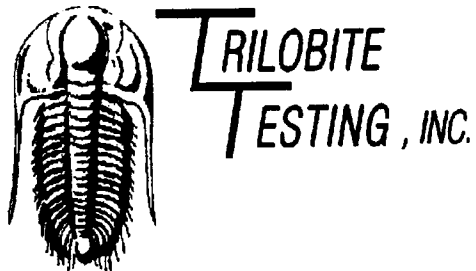
Laboratory Name:

Laboratory Location:

Recovery Comments: API; 30 @ 40 degrees F = 32.

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

5 17S 30W Lane KS

Wilkins #C5

Start Date: 2007.01.31 @ 09:55:00

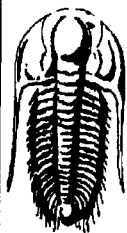
End Date: 2007.01.31 @ 18:14:30

Job Ticket #: 26598 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
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DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita KS 67278-3188
ATTN: Tom Pronold

Wilkins #C5
5 17S 30W Lane KS
Job Ticket: 26598 **DST#: 2**
Test Start: 2007.01.31 @ 09:55:00

GENERAL INFORMATION:

Formation: **Lansing "E,F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:43:15

Time Test Ended: 18:14:30

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4020.00 ft (KB) To 4044.00 ft (KB) (TVD)**

Total Depth: 4044.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2870.00 ft (KB)

2862.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8017

Inside

Press@RunDepth: 38.28 psig @ 4024.00 ft (KB)

Start Date: 2007.01.31

End Date:

2007.01.31

Capacity: 7000.00 psig

Last Calib.: 2007.01.31

Start Time: 09:55:01

End Time:

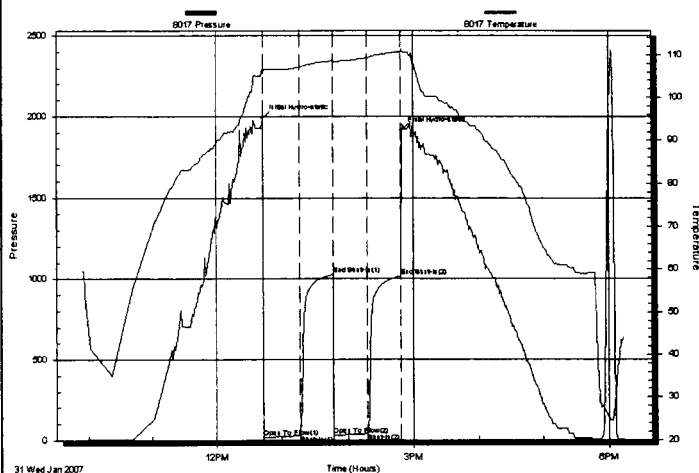
18:14:30

Time On Btm: 2007.01.31 @ 12:43:00

Time Off Btm: 2007.01.31 @ 14:49:00

TEST COMMENT: IF Weak surface blow built to 1/2 "
ISI No return
FF Weak surface blow built to 1/2 "
FSI No return

Pressure vs. Time



PRESSURE SUMMARY

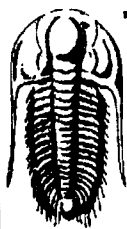
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.35	106.75	Initial Hydro-static
1	14.94	105.66	Open To Flow (1)
34	27.14	107.08	Shut-In(1)
64	1025.39	108.58	End Shut-In(1)
65	28.63	108.34	Open To Flow (2)
95	38.28	109.26	Shut-In(2)
126	1015.64	110.74	End Shut-In(2)
126	1911.15	111.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100%M	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

Wilkins #C5

5 17S 30W Lane KS

Job Ticket: 26598

DST#: 2

Test Start: 2007.01.31 @ 09:55:00

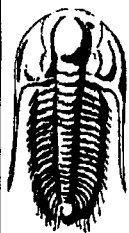
Tool Information

Drill Pipe:	Length: 3827.00 ft	Diameter: 3.80 inches	Volume: 53.68 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	82000.00 lb
		Total Volume:	54.58 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4020.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	44.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4001.00	
Shut In Tool	5.00			4006.00	
Hydraulic tool	5.00			4011.00	
Packer	5.00			4016.00	20.00 Bottom Of Top Packer
Packer	4.00			4020.00	
Stubb	1.00			4021.00	
Perforations	3.00			4024.00	
Recorder	0.00	8017	Inside	4024.00	
Perforations	15.00			4039.00	
Recorder	0.00	13309	Inside	4039.00	
Bullnose	5.00			4044.00	24.00 Bottom Packers & Anchor

Total Tool Length: 44.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26598

DST#: 2

ATTN: Tom Pronold

Test Start: 2007.01.31 @ 09:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

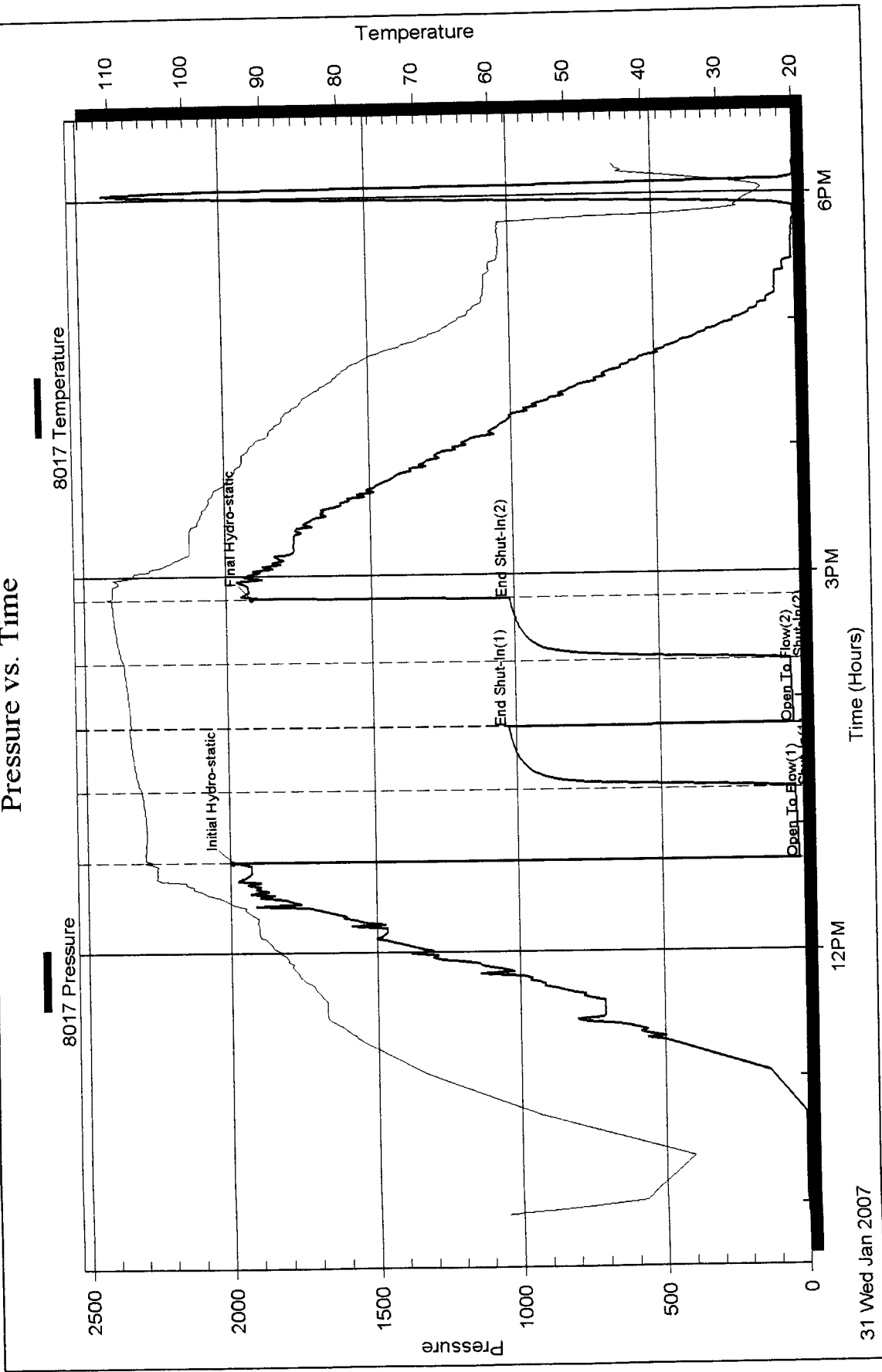
Serial #:

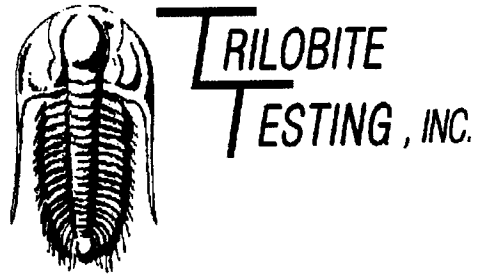
Laboratory Name:

Laboratory Location:

Recovery Comments: Scum of Oil in 30 feet

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

5 17S 30W Lane KS

Wilkins #C5

Start Date: 2007.02.02 @ 09:05:00

End Date: 2007.02.02 @ 18:59:45

Job Ticket #: 26600 DST #: 3

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

Ritchie Exploration
PO Box 783188
Wichita KS 67278-3188
ATTN: Tom Pronold

Wilkens #C5

5 17S 30W Lane KS

Job Ticket: 26600

DST#: 3

Test Start: 2007.02.02 @ 09:05:00

GENERAL INFORMATION:

Formation: **Lansing "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:00

Time Test Ended: 18:59:45

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4170.00 ft (KB) To 4200.00 ft (KB) (TVD)**

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2870.00 ft (KB)

2862.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8017

Inside

Press@RunDepth: 28.67 psig @ 4173.00 ft (KB)

Start Date: 2007.02.02

End Date:

2007.02.02

Start Time: 09:05:01

End Time:

18:59:45

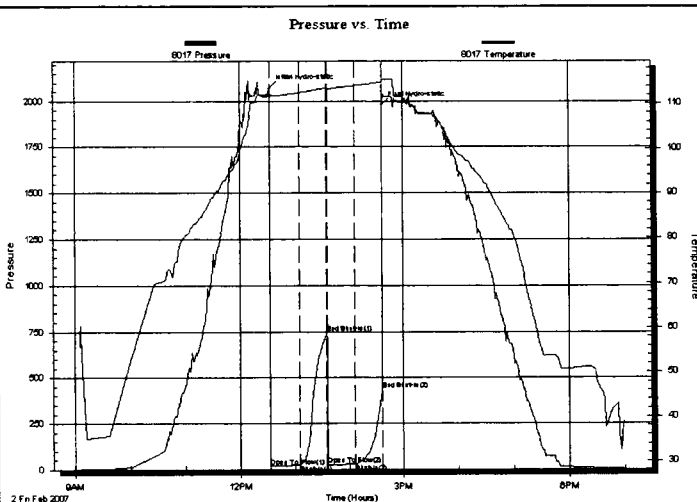
Capacity: 7000.00 psig

Last Calib.: 2007.02.02

Time On Btm: 2007.02.02 @ 12:32:45

Time Off Btm: 2007.02.02 @ 14:36:45

TEST COMMENT: IF Weak surface blow
ISI No return
FF Weak surface blow
FSI No return



PRESSURE SUMMARY

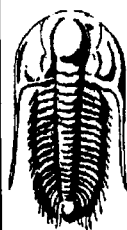
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2069.14	112.20	Initial Hydro-static
1	17.39	110.94	Open To Flow (1)
32	23.54	112.44	Shut-In(1)
63	740.00	113.50	End Shut-In(1)
63	25.42	113.31	Open To Flow (2)
93	28.67	114.05	Shut-In(2)
124	433.39	114.84	End Shut-In(2)
124	1978.67	115.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 15%O 85%M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26600

DST#: 3

ATTN: Tom Pronold

Test Start: 2007.02.02 @ 09:05:00

Tool Information

Drill Pipe:	Length: 3989.00 ft	Diameter: 3.80 inches	Volume: 55.96 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: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4170.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4151.00	
Shut In Tool	5.00			4156.00	
Hydraulic tool	5.00			4161.00	
Packer	5.00			4166.00	20.00 Bottom Of Top Packer
Packer	4.00			4170.00	
Stubb	1.00			4171.00	
Perforations	2.00			4173.00	
Recorder	0.00	8017	Inside	4173.00	
Perforations	22.00			4195.00	
Recorder	0.00	13309	Inside	4195.00	
Bullnose	5.00			4200.00	30.00 Bottom Packers & Anchor

Total Tool Length: 50.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26600

DST#: 3

ATTN: Tom Pronold

Test Start: 2007.02.02 @ 09:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 15%O 85%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

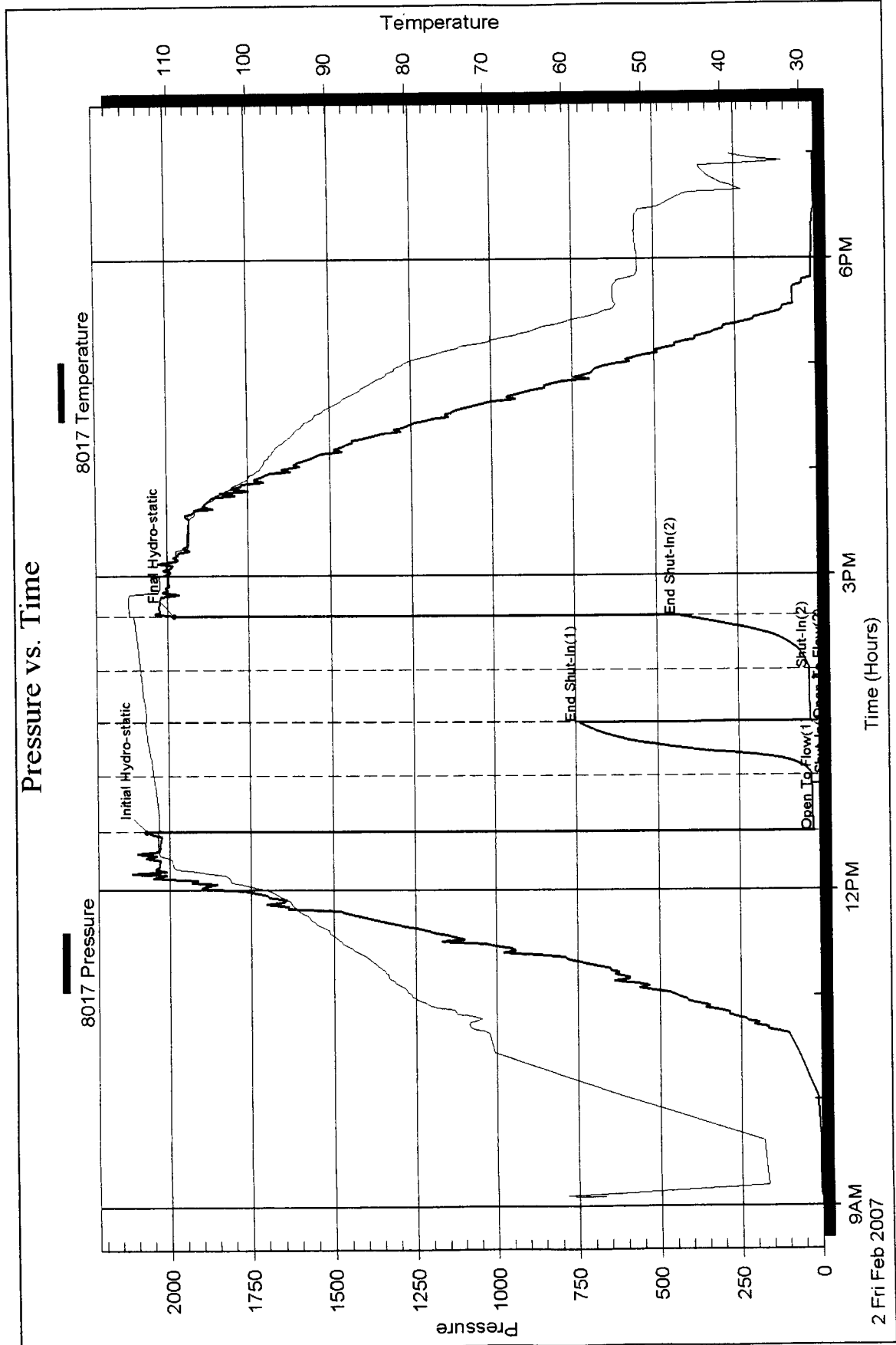
Num Gas Bombs: 0

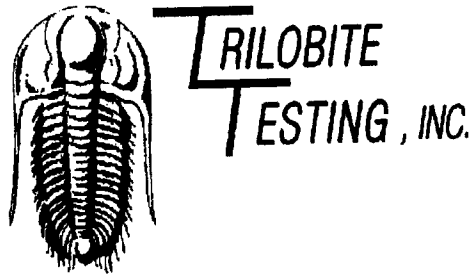
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

5 17S 30W Lane KS

Wilkins #C5

Start Date: 2007.02.04 @ 09:08:00

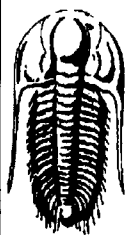
End Date: 2007.02.04 @ 18:10:30

Job Ticket #: 26476 DST #: 4

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

Ritchie Exploration

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

Wilkins #C5

5 17S 30W Lane KS

Job Ticket: 26476

DST#: 4

Test Start: 2007.02.04 @ 09:08:00

GENERAL INFORMATION:

Formation: **Altamont "A,B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:22:30

Time Test Ended: 18:10:30

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4314.00 ft (KB) To 4370.00 ft (KB) (TVD)**

Total Depth: 4370.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2870.00 ft (KB)

2862.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8017 Inside

Press@RunDepth: 21.44 psig @ 4317.00 ft (KB)

Start Date: 2007.02.04

End Date:

2007.02.04

Start Time: 09:08:01

End Time:

18:10:30

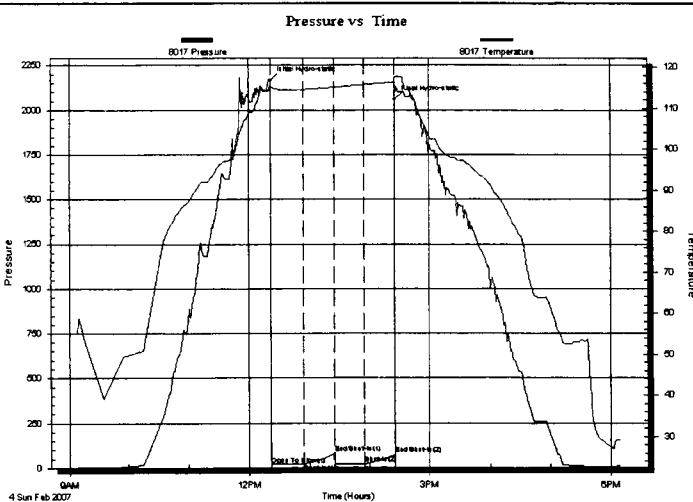
Capacity: 7000.00 psig

Last Calib.: 2007.02.04

Time On Btm: 2007.02.04 @ 12:22:15

Time Off Btm: 2007.02.04 @ 14:26:00

TEST COMMENT: IF Weak surface blow
ISI No return
FF Weak surface blow died @ 7 min.
FSI No return



PRESSURE SUMMARY

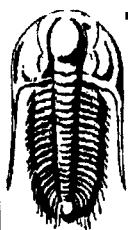
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.49	115.55	Initial Hydro-static
1	17.18	114.85	Open To Flow (1)
33	19.69	114.48	Shut-In(1)
63	79.12	115.09	End Shut-In(1)
63	15.21	115.06	Open To Flow(2)
93	21.44	115.71	Shut-In(2)
124	73.73	116.37	End Shut-In(2)
124	2058.47	117.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 5% O 95% M	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26476

DST#: 4

ATTN: Tom Pronold

Test Start: 2007.02.04 @ 09:08:00

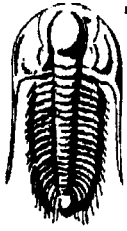
Tool Information

Drill Pipe:	Length: 4324.00 ft	Diameter: 3.80 inches	Volume: 60.65 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	78000.00 lb
		Total Volume:	60.65 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4314.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	76.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4295.00	
Shut In Tool	5.00			4300.00	
Hydraulic tool	5.00			4305.00	
Packer	5.00			4310.00	20.00 Bottom Of Top Packer
Packer	4.00			4314.00	
Stubb	1.00			4315.00	
Perforations	2.00			4317.00	
Recorder	0.00	8017	Inside	4317.00	
Perforations	15.00			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	13276	Inside	4365.00	
Bullnose	5.00			4370.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26476

DST#: 4

ATTN: Tom Pronold

Test Start: 2007.02.04 @ 09:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM5%O 95%%M	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

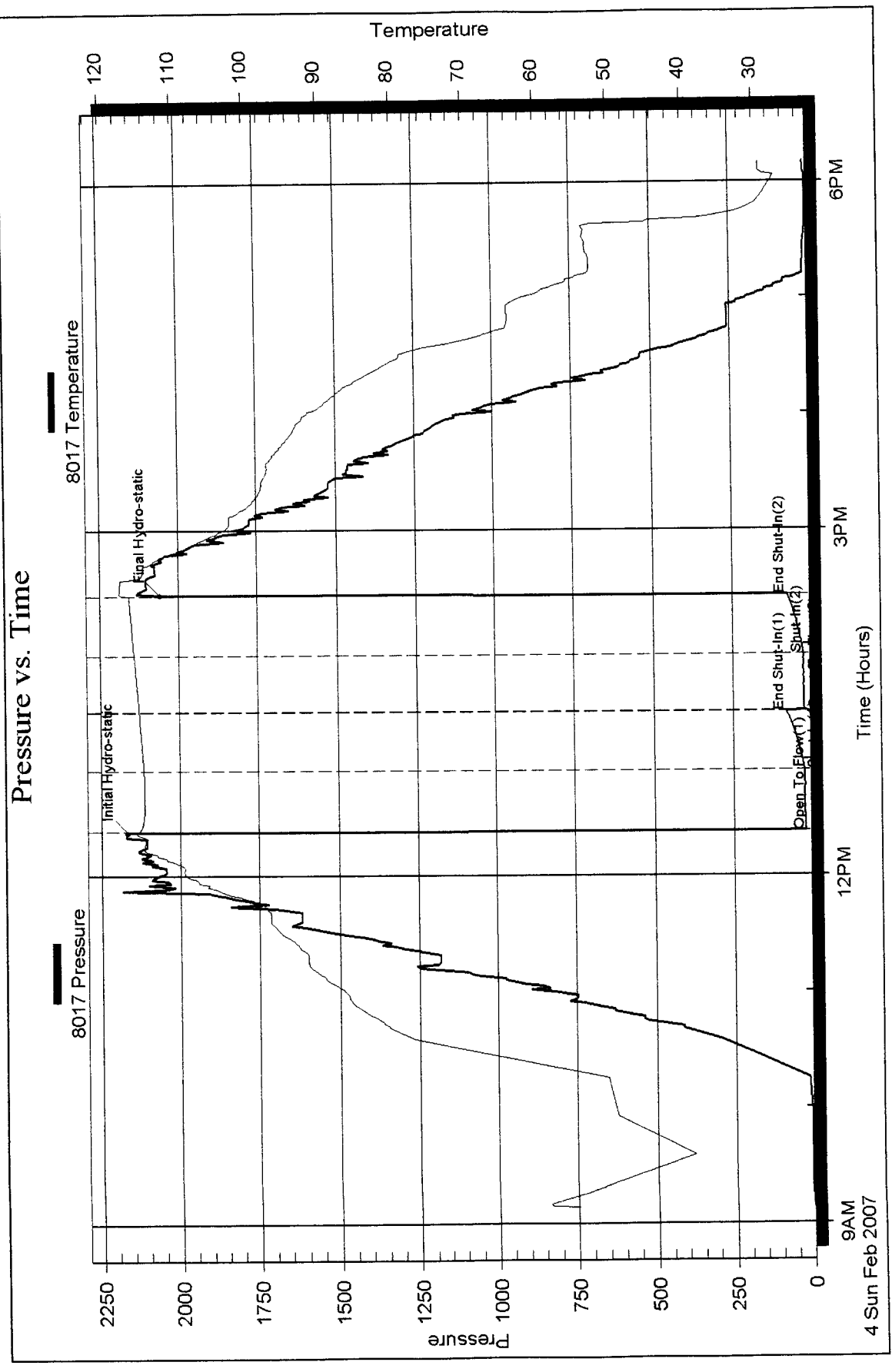
Serial #:

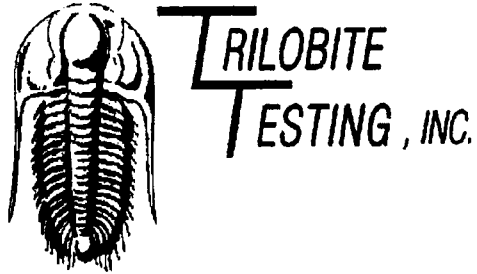
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

5 17S 30W Lane KS

Wilkins #C5

Start Date: 2007.02.14 @ 12:35:22

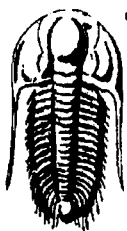
End Date: 2007.02.15 @ 02:15:02

Job Ticket #: 26441 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration

PO Box 783188
Wichita KS 67278-3188

ATTN: Tom Pronold

Wilkins #C5

5 17S 30W Lane KS

Job Ticket: 26441

DST#: 5

Test Start: 2007.02.14 @ 12:35:22

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:42:17

Time Test Ended: 02:15:02

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4470.00 ft (KB) To 4535.00 ft (KB) (TVD)**

Total Depth: 4535.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2870.00 ft (KB)

2862.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 598.00 psig @ 4471.00 ft (KB)

Start Date: 2007.02.14

End Date:

2007.02.15

Capacity: 7000.00 psig

Last Calib.: 2007.02.15

Start Time: 12:35:22

End Time:

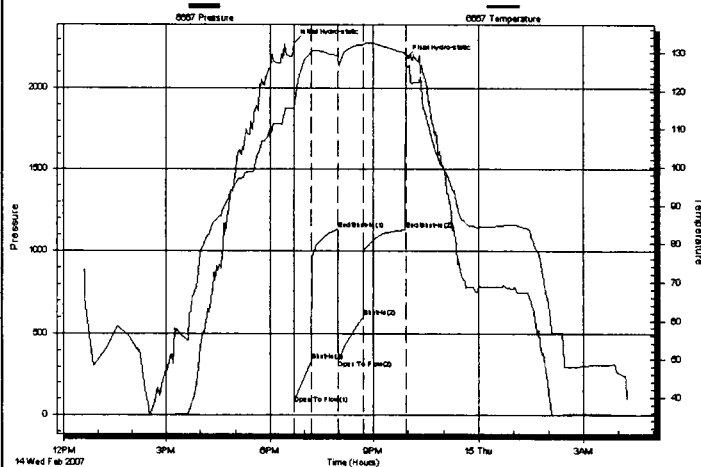
04:15:02

Time On Btm: 2007.02.14 @ 18:42:01

Time Off Btm: 2007.02.14 @ 21:56:17

TEST COMMENT: BOB in 2 min.
Return to BOB in 10 min.
BOB @ open
Return to BOB in 8 min. GTS 40 min. into shutin

Pressure vs. Time



PRESSURE SUMMARY

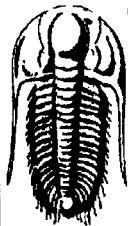
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2277.58	115.55	Initial Hydro-static
1	66.65	114.91	Open To Flow (1)
31	329.76	130.20	Shut-In (1)
76	1131.55	129.13	End Shut-In (1)
77	336.08	128.82	Open To Flow (2)
121	598.00	131.98	Shut-In (2)
194	1129.56	129.96	End Shut-In (2)
195	2180.08	128.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCGO 30%M 30%G 40%O under circ s	1.14
810.00	CGO 30%G 70%O reversed out	11.36
130.00	CGO 25%G 75%O	1.82

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26441

DST#: 5

ATTN: Tom Pronold

Test Start: 2007.02.14 @ 12:35:22

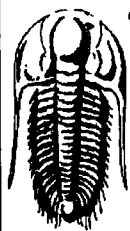
Tool Information

Drill Pipe:	Length: 4423.00 ft	Diameter: 3.80 inches	Volume: 62.04 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:	25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	95000.00 lb
			Total Volume: 62.34 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4470.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	84.00 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			4456.00	
Hydraulic tool	5.00			4461.00	
Packer	5.00			4466.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4470.00	
Stubb	1.00			4471.00	
Recorder	0.00	6667	Inside	4471.00	
Perforations	26.00			4497.00	
Change Over Sub	1.00			4498.00	
Drill Pipe	31.00			4529.00	
Change Over Sub	1.00			4530.00	
Recorder	0.00	11058	Inside	4530.00	
Bullnose	5.00			4535.00	65.00 Bottom Packers & Anchor

Total Tool Length: 84.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

Wilkins #C5

PO Box 783188
Wichita KS 67278-3188

5 17S 30W Lane KS

Job Ticket: 26441

DST#: 5

ATTN: Tom Pronold

Test Start: 2007.02.14 @ 12:35:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.32 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCGO 30%M 30%G 40%O under circ sub	1.137
810.00	CGO 30%G 70%O reversed out	11.362
130.00	CGO 25%G 75%O	1.824

Total Length: 1060.00 ft

Total Volume: 14.323 bbl

Num Fluid Samples: 0

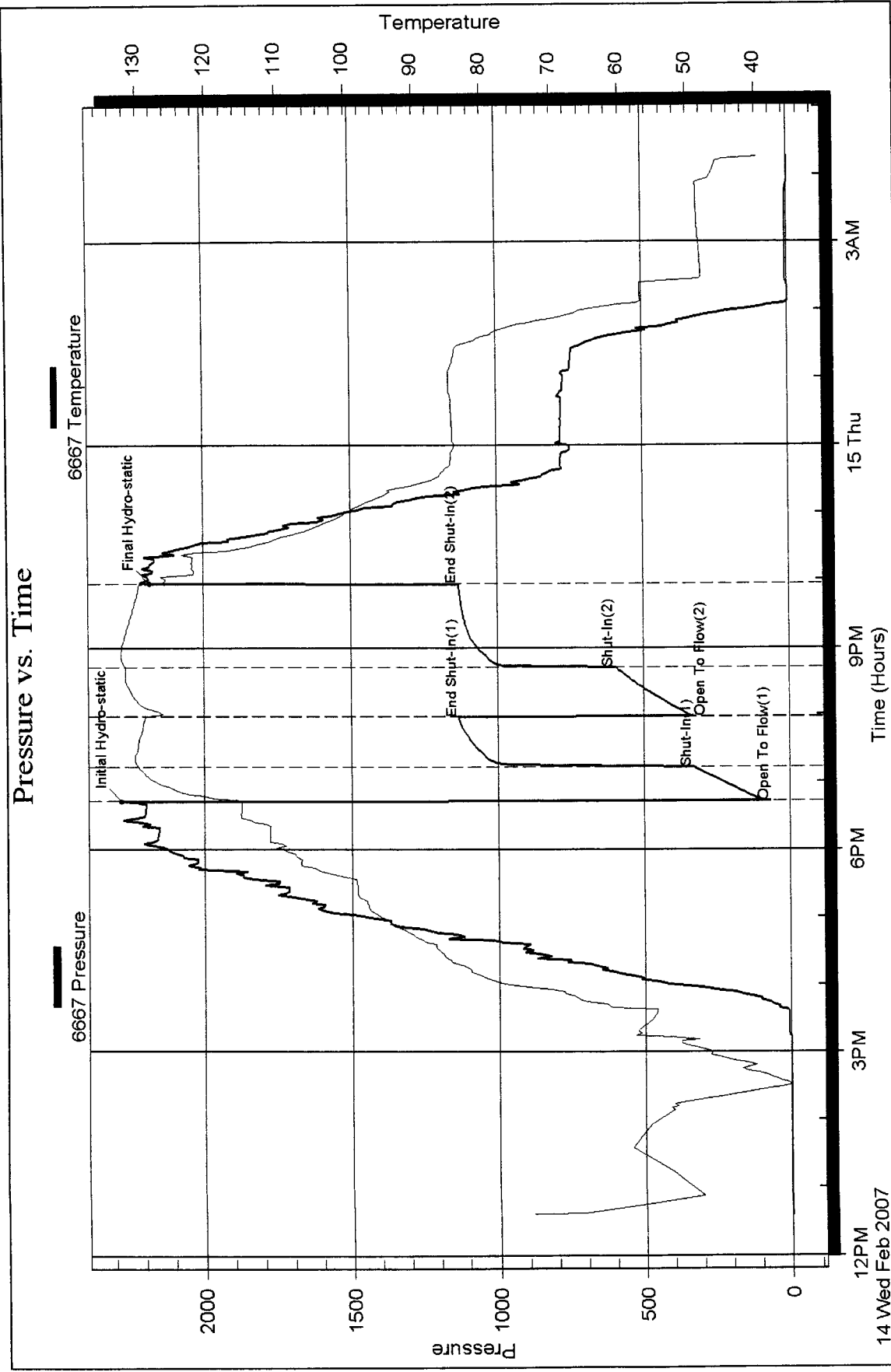
Num Gas Bombs: 0

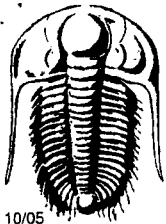
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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26597

9808
1-4

Test Ticket

Well Name & No. <u>Wilken C5</u>	Test No. <u>1</u>	Date <u>1-30-07</u>
Company <u>Ritchie Exploration</u>	Zone Tested <u>Lansing 'C'</u>	
Address <u>PO 783188 Wichita, KS 67278-3188</u>	Elevation <u>2870</u>	KB <u>2862</u> GL
Co. Rep / Geo. <u>Tom Pronold</u>	Rig <u>Warren #5</u>	
Location: Sec. <u>5</u> Twp. <u>17</u> Rge. <u>30</u>	Co. <u>Lane</u>	State <u>Ks</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3953 to 3984</u>	Initial Str Wt./Lbs. <u>74,000</u>	Unseated Str Wt/Lbs. <u>74,000</u>
Anchor Length <u>31</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>90,000</u>
Top Packer Depth <u>3949</u>	Tool Weight <u>1,500</u>	
Bottom Packer Depth <u>3953</u>	Hole Size 7 7/8" <u>X</u>	Rubber Size 6 3/4" <u>X</u>
Total Depth <u>3984</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>183</u>
Mud Wt. <u>9.1</u> LCM trace Vis. <u>41</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3,763</u>
Blow Description <u>IF: Surface blow built to 3".</u>		

ISI: No return.

FF: Surface blow built to 4".

FSI: No return.

Recovery - Total Feet <u>174</u>	GIP <u>12</u>	Ft. in DC <u>174</u>	Ft. in DP <u>0</u>
Rec. <u>40</u> Feet of <u>GO</u>	<u>5</u> %gas <u>95</u> %oil	%water	%mud
Rec. <u>10</u> Feet of <u>GMCO</u>	<u>5</u> %gas <u>55</u> %oil	%water	<u>40</u> %mud
Rec. <u>124</u> Feet of <u>GWOCM</u>	<u>5</u> %gas <u>20</u> %oil	<u>10</u> %water	<u>65</u> %mud
Rec. _____ Feet of _____	%gas	%oil	%water
Rec. _____ Feet of _____	%gas	%oil	%water
BHT <u>114</u> °F Gravity <u>30</u>	°API D @ <u>40</u>	°F Corrected Gravity <u>32</u>	°API
RW <u>-</u> @ <u>-</u> °F	Chlorides <u>-</u> ppm	Recovery <u>-</u>	Chlorides <u>3,300</u> ppm System

(A) Initial Hydrostatic Mud <u>1946</u> PSI	Recorder No. <u>8017</u>	Test <u>X</u> <u>1,100⁰⁰</u>
(B) First Initial Flow Pressure <u>19</u> PSI	(depth) <u>3956</u>	Jars _____
(C) First Final Flow Pressure <u>53</u> PSI	Recorder No. <u>13309</u>	Safety Jt. _____
(D) Initial Shut-In Pressure <u>968</u> PSI	(depth) <u>3979</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure <u>58</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure <u>89</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>937</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>1923</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____

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Approved By Tom Pronold

Our Representative Chuck Anish

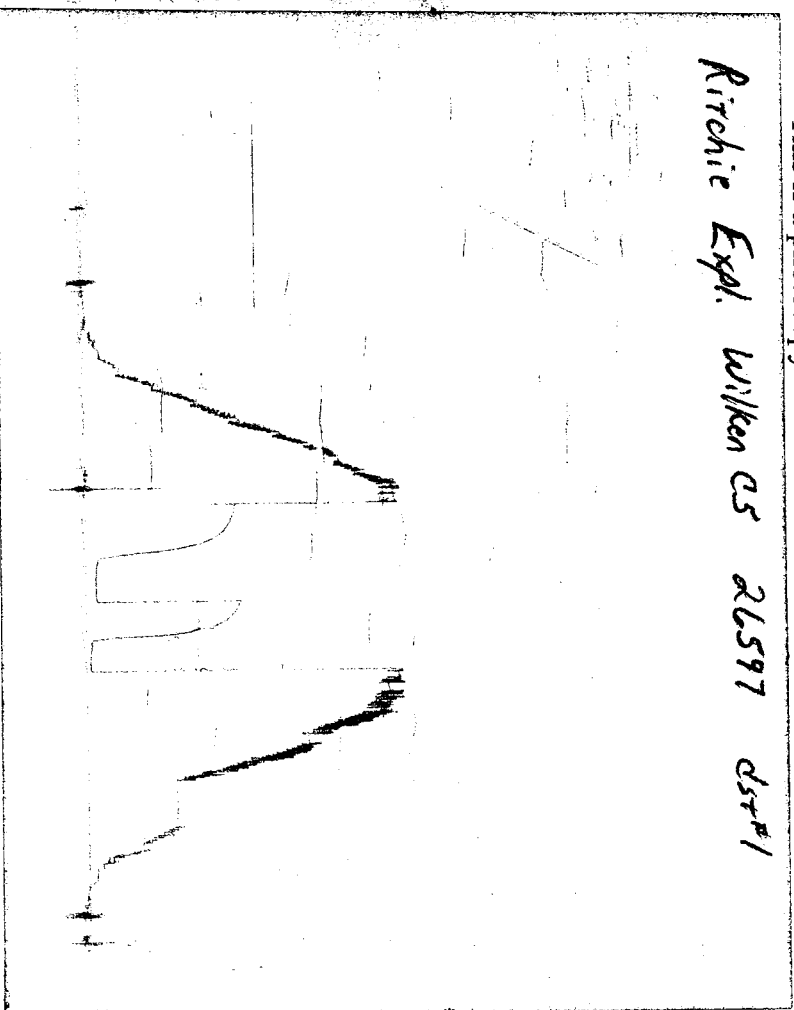
Final Flow 45
Final Shut-In 60
T-On Location 00:38 am
T-Started 04:30 am
T-Open 09:40 am
T-Pulled 12:44 pm
T-Out 16:50 pm

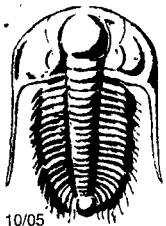
Ruined Packer 5x 25
Mileage 45RT
Sub Total: 860
Std. By X 85 2006.23
Acc. Chg: X 150⁰⁰
Other: _____
Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

Ritchie Expl. Wilken CS 26597 ds#1





TRILOBITE TESTING INC.

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26598

Test Ticket

Well Name & No. Wilken C5 Test No. 2 Date 1-31-07
 Company Ritchie Exploration Zone Tested Lansing
 Address PO 783188 Wichita, KS 67278-3188 Elevation 2870 KB 2862 GL
 Co. Rep / Geo. Tom Pronold Rig Warren #5
 Location: Sec. 5 Twp. 17 Rge. 30 Co. Lane State KS
 Comment: _____ Release date / time: _____

Interval Tested 4020 TO 4044
 Anchor Length 24
 Top Packer Depth 4016
 Bottom Packer Depth ~~4044~~ 4020
 Total Depth 4044
 Mud Wt. 9.2 LCM 1 Vis. 46 WL 8.0
 Blow Description IF: Weak surface blow built to 1/2".

Initial
 Wt. S
 Tool V
 Hole S
 Wt. Pip
 Drill Pip

End Dst # 2 18:15 4/31 1,000
 1st 24hr Free 18:15 2/1 000
 Start Dst # 3 04:55 2/2
 10.75 hrs @
 Day rate
 \$447.91

ISI: No return.
 FF: Weak surface blow built to 1/2".
 FSI: No return.

Recovery - Total Feet 30 GIP 0 Ft. in
 Rec. 30 Feet of M w/sum of oil %g
 Rec. Feet of %g: %mud
 Rec. Feet of %ga %water %mud
 Rec. Feet of %gas %oil %water %mud
 Rec. Feet of %gas %oil %water %mud
 BHT 111 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 3,500 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1,990	PSI	Recorder No.	8017	Test X	1,200 ²⁰
(B) First Initial Flow Pressure			15	PSI	(depth)	4024	Jars	
(C) First Final Flow Pressure			27	PSI	Recorder No.	13309	Safety Jt.	
(D) Initial Shut-In Pressure			1,025	PSI	(depth)	4,039	Circ Sub X	N/C
(E) Second Initial Flow Pressure			29	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			38	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1,015	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			1,969	PSI	Initial Shut-In	30	Shale Packer	

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Approved By Tom Pronold
 Our Representative Chuck Smith

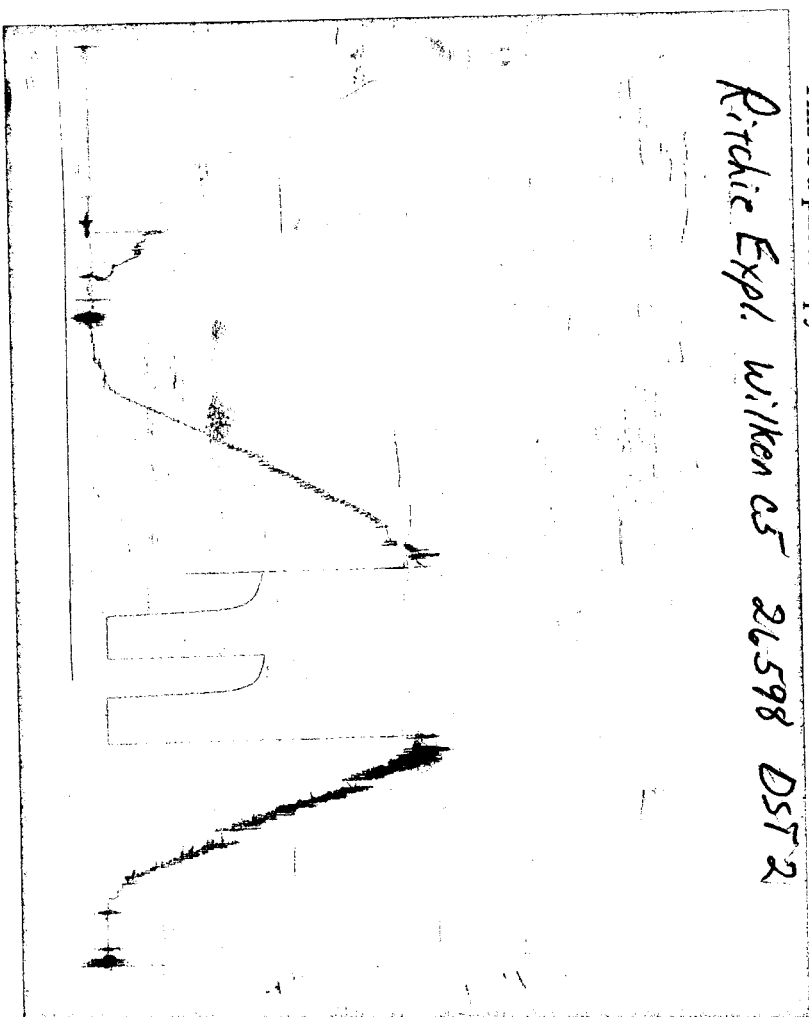
Final Flow 30
 Final Shut-In 30
 T-On Location 07:45
 T-Started 09:55
 T-Open 12:46
 T-Pulled 14:49
 T-Out 18:15

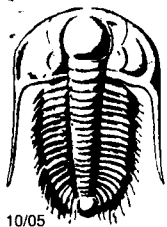
Ruined Packer 36.2'
 Mileage 45RT
 Sub Total: 150
 Std. By X 1.5 1406.2
 Acc. Chg: X 150⁰⁰
 Other: _____
 Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

Ritchie Expl. Wilken 05 26598 DST 2





TRILOBITE TESTING INC.

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26600

Test Ticket

Well Name & No. <u>Wilken C5</u>	Test No. <u>3</u>	Date <u>2-2-07</u>
Company <u>Ritchie Exploration</u>	Zone Tested <u>Lansing J</u>	
Address <u>PO 783188 Wichita, KS 67278-3188</u>	Elevation <u>2870</u>	KB <u>2862</u> GL
Co. Rep / Geo. <u>Tom Pronold</u>	Rig <u>Warren #5</u>	
Location: Sec. <u>5</u> Twp. <u>17S</u> Rge. <u>30W</u>	Co. <u>Lane</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4170 to 4200</u>	Initial Str Wt./Lbs. <u>75000</u>	Unseated Str Wt/Lbs. <u>75000</u>
Anchor Length <u>30</u>	Wt. Set Lbs. <u>30000</u>	Wt. Pulled Loose/Lbs. <u>85,000</u>
Top Packer Depth <u>4166</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>4170</u>	Hole Size 7 7/8" <u>X</u>	Rubber Size 6 3/4" <u>X</u>
Total Depth <u>4200</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>153</u>
Mud Wt. <u>9.3</u> LCM <u>1</u> Vis. <u>46</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3989</u>

Blow Description IF: Weak surface blow

ISE: No return.

FF: Weak surface blow.

FSI: No return.

Recovery - Total Feet <u>10</u>	GIP <u>0</u>	Ft. in DC <u>10</u>	Ft. in DP <u>0</u>
Rec. <u>10</u> Feet of <u>OCM</u>	%gas <u>15</u> %oil	%water <u>85</u> %mud	
Rec. _____ Feet of _____	%gas _____ %oil	%water _____ %mud	
Rec. _____ Feet of _____	%gas _____ %oil	%water _____ %mud	
Rec. _____ Feet of _____	%gas _____ %oil	%water _____ %mud	
Rec. _____ Feet of _____	%gas _____ %oil	%water _____ %mud	
BHT <u>115</u> °F Gravity _____	*API D @ _____	*F Corrected Gravity _____	*API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>3,700</u> ppm System	

(A) Initial Hydrostatic Mud <u>2078</u> PSI	Recorder No. <u>8017</u>	Test <u>X</u> <u>1200-</u>
(B) First Initial Flow Pressure <u>18</u> PSI	(depth) <u>4173</u>	Jars _____
(C) First Final Flow Pressure <u>24</u> PSI	Recorder No. <u>13309</u>	Safety Jt. _____
(D) Initial Shut-In Pressure <u>740</u> PSI	(depth) <u>4195</u>	Circ Sub <u>X</u> <u>N/K</u>
(E) Second Initial Flow Pressure <u>25</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure <u>29</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>433</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>2057</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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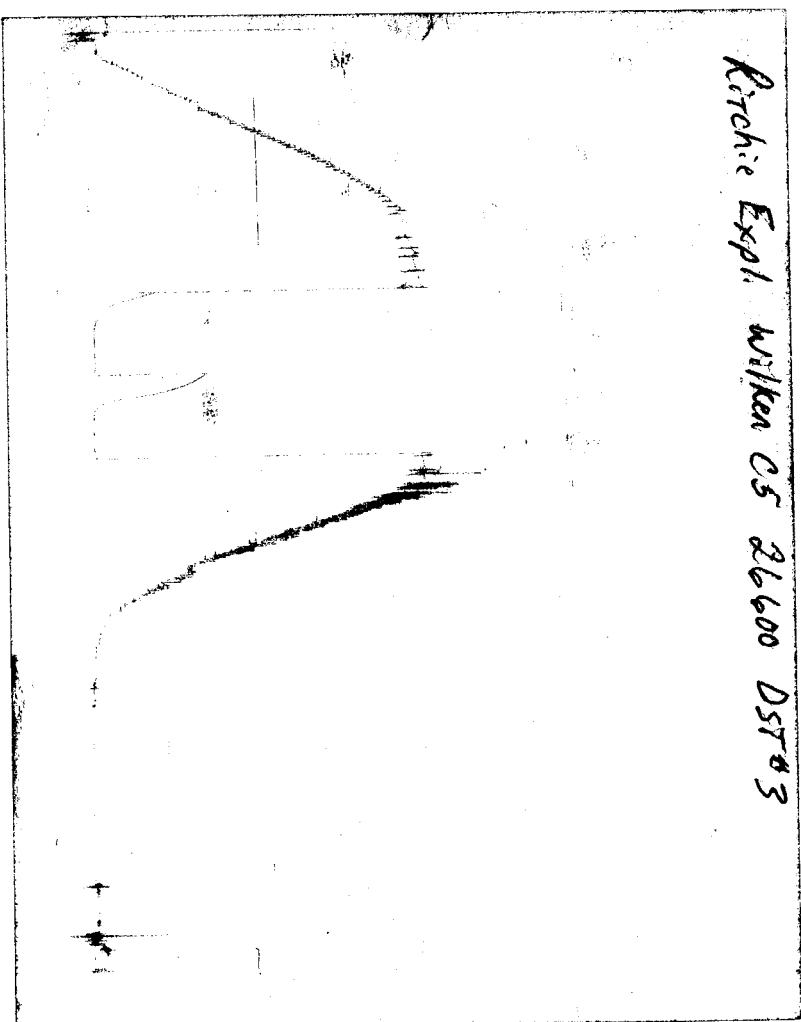
Approved By Tom Pronold

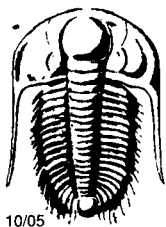
Our Representative Chuck Smith

Final Flow <u>30</u>	T-On Location <u>04:55 am</u>	Sub Total: _____
Final Shut-In <u>30</u>	T-Started <u>09:05 am</u>	Std. By <u>X5</u> <u>1756.23</u>
	T-Open <u>12:34 pm</u>	Acc. Chg: <u>X</u> <u>1.50</u>
	T-Pulled <u>14:36 pm</u>	Other: _____
	T-Out <u>19:00 pm</u>	Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.





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26477

Test Ticket

Well Name & No. <u>Wilken C5</u>	Test No. <u>4</u>	Date <u>2-4-07</u>
Company <u>Ritchie Exploration</u>	Zone Tested <u>Altamont "A,B"</u>	
Address <u>PO 783188 Wichita, KS 67278-3188</u>	Elevation <u>2870</u>	KB <u>2862</u> GL
Co. Rep / Geo. <u>Tom Pronold</u>	Rig <u>Warren #5</u>	
Location: Sec. <u>5</u> Twp. <u>17E</u> Rge. <u>30W</u>	Co. <u>Lane</u>	State <u>KS</u>
Comment: _____		Release date / time: _____

Interval Tested 4314 to 4370
 Anchor Length 56
 Top Packer Depth 4310
 Bottom Packer Depth 4314
 Total Depth 4370
 Mud Wt. 9.4 LCM 1 Vis. 4/6 WL 9.2
 Blow Description IF: Weak surface blow.

Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 62,000
 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 78,000
 Tool Weight 1,500

ISI: No return.
FF: Weak surface blow died @ 7min
FSI: No return.

Recovery - Total Feet 15 GIP 0
 Rec. 15 Feet of OCM
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 116 °F Gravity _____ °API D @ _____
 RW _____ @ _____ °F Chlorides _____ ppm

End Dst #3 19:00 2/2 X
 1st 24 hr FREE @ 19:00 2/3
 Start Dst #4 04:30 2/4
 9.5 hrs @
 Day rate
 #345-83
 %mud
 %mud
 %mud
 %mud
 %mud
 °API

AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>2,165</u>	PSI	Recorder No.	<u>8017</u>	Test <u>X</u> <u>1200"</u>
(B) First Initial Flow Pressure	<u>17</u>	PSI	(depth)	<u>4317</u>	Jars _____
(C) First Final Flow Pressure	<u>20</u>	PSI	Recorder No.	<u>13276</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>79</u>	PSI	(depth)	<u>4365</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	<u>15</u>	PSI	Recorder No.		Sampler _____
(F) Second Final Flow Pressure	<u>21</u>	PSI	(depth)		Straddle _____
(G) Final Shut-In Pressure	<u>74</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2,139</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer _____
			Final Flow	<u>30</u>	Ruined Packer _____
			Final Shut-In	<u>30</u>	Mileage <u>45 RT</u> <u>56.25</u>
			T-On Location	<u>04:32am</u>	Sub Total: _____
			T-Started	<u>09:08am</u>	Std. By <u>X4.75</u> <u>475</u>
			T-Open	<u>12:23pm</u>	Acc. Chg: <u>X</u> <u>1731.25</u>
			T-Pulled	<u>02:26pm</u>	Other: _____
			T-Out	<u>18:11pm</u>	Total: <u>150</u>

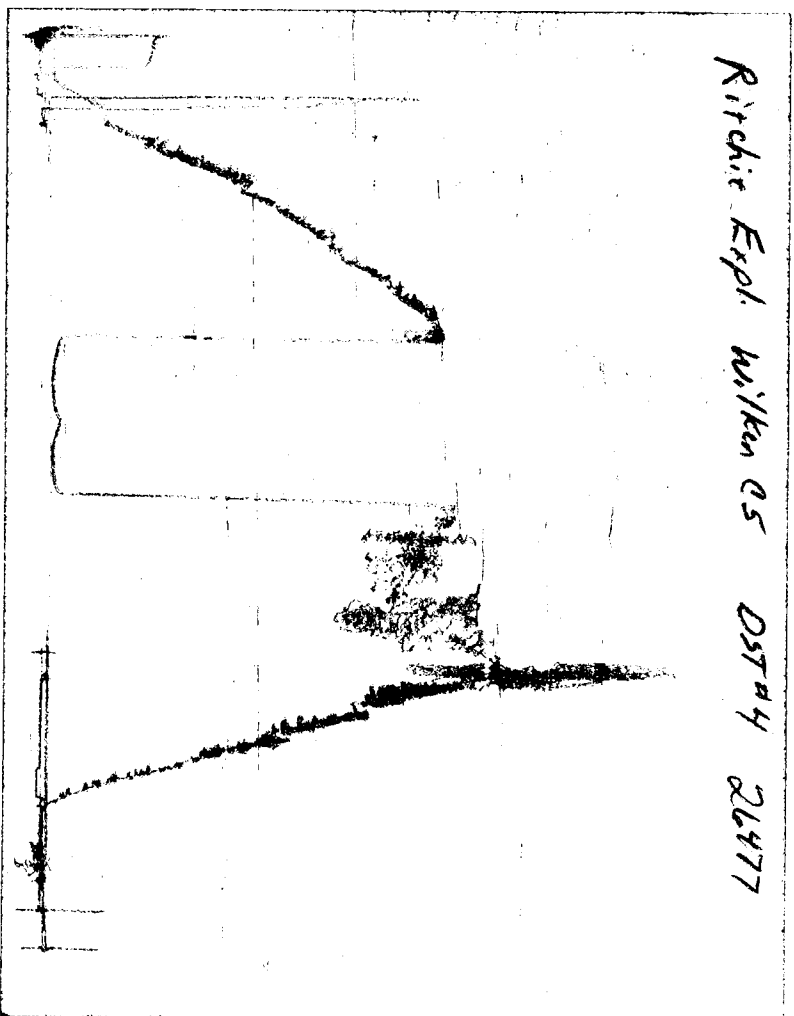
Approved By _____

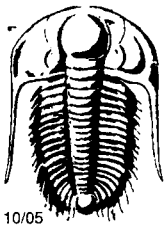
Our Representative Chuck Smith

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CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9855 #5
cut only 26441

Test Ticket

Well Name & No. <u>Wilkins SC #1</u>	Test No. <u>#5</u>	Date <u>2-14-07</u>
Company <u>Ritchie Exploration</u>	Zone Tested <u>Johnson</u>	
Address <u>P.O. Box 783180 Wichita Ks 67278</u>	Elevation <u>2886</u>	KB <u>2881</u> GL
Co. Rep / Geo. <u>Tom Prondal</u>	Rig <u>Warren #5</u>	
Location: Sec. <u>5</u> Twp. <u>17</u> Rge. <u>30</u>	Co. <u>Lane</u>	State <u>Ks</u>
Comment: _____		Release date / time: _____

Interval Tested 4470 4535 Initial Str Wt./Lbs. 70,000 Unseated Str Wt./Lbs. 75,000
 Anchor Length 65 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 95,000
 Top Packer Depth 4465 Tool Weight 1500
 Bottom Packer Depth 4470 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4535 Wt. Pipe Run _____ Drill Collar Run 60'
 Mud Wt. 9.2 LCM #1 Vis. 51 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 4423'
 Blow Description B.O.B. in 2 min

Return to B.O.B. in 10 min.

B.O.B. @ open

Return to B.O.B. in 8 min, G.T.S. 40 min into Shut in.

Recovery - Total Feet <u>1060'</u>	GIP <u>G.T.S.</u>	Ft. in DC <u>60'</u>	Ft. in DP <u>1000'</u>
Rec. <u>130'</u>	Feet of <u>C90</u>	<u>25</u> %gas <u>75</u> %oil	%water %mud
Rec. <u>810'</u>	Feet of <u>C90 (reversed)</u>	<u>30</u> %gas <u>70</u> %oil	%water %mud
Rec. <u>120'</u>	Feet of <u>(undercirc)</u>	<u>30</u> %gas <u>40</u> %oil	%water <u>30</u> %mud
Rec. _____	Feet of <u>(sub)</u>	%gas %oil	%water %mud
Rec. _____	Feet of _____	%gas %oil	%water %mud
BHT <u>130°</u>	°F Gravity <u>29</u>	°API D @ <u>20°</u>	°F Corrected Gravity <u>33</u> °API
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides <u>4300</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2286</u> PSI	Alpine	Recorder No. <u>6667</u>	Test x <u>\$1200.00</u>
(B) First Initial Flow Pressure	<u>66</u> PSI	(depth)	<u>4471</u>	Jars
(C) First Final Flow Pressure	<u>329</u> PSI	Recorder No.	<u>11058</u>	Safety Jt.
(D) Initial Shut-In Pressure	<u>1131</u> PSI	(depth)	<u>4530</u>	Circ Sub x <u>\$50.00</u>
(E) Second Initial Flow Pressure	<u>336</u> PSI	Recorder No.		Sampler
(F) Second Final Flow Pressure	<u>598</u> PSI	(depth)		Straddle
(G) Final Shut-In Pressure	<u>1129</u> PSI	Initial Opening	<u>30</u>	Ext. Packer
(Q) Final Hydrostatic Mud	<u>2215</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer

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Approved By _____

Our Representative

[Signature]

Final Flow	<u>45</u>	Ruined Packer	<u>56.25</u>
Final Shut-In	<u>60</u>	Mileage <u>x</u> <u>1100</u>	<u>\$1100.00</u>
T-On Location	<u>07:15 a.m.</u>	Sub Total:	<u>\$1307.5</u>
T-Started	<u>12:35 p.m.</u>	Std. By	<u>10 hrs \$100.00</u>
T-Open	<u>16:30 p.m.</u>	Acc. Chg:	
T-Pulled	<u>19:30 p.m.</u>	Other:	
T-Out	<u>02:20 a.m.</u>	Total:	<u>\$2306.25</u>

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

11058 Wilkins ~~36~~ #1
DFA #5 Ritchie Exploration

