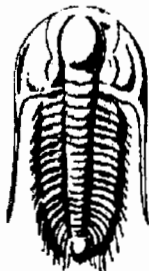


ORIGINAL

RELEASED
FROM
CONFIDENTIAL

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JUL 03 2003
KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Ritchie Explor**

PO Box 783188
Wichita, KS 67202

CONFIDENTIAL

ATTN: Ritchie Explor
ORIGINAL

25-17-30 Lane, Ks

Dowd #1

Start Date: 2003.06.08 @ 04:03:42

End Date: 2003.06.08 @ 10:50:10

Job Ticket #: 17505

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Ritchie Explor

Dowd #1

25-17-30 Lane, Ks

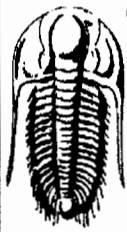
DST # 1

J-K

2003.06.08

CONFIDENTIAL

ORIGINAL


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Explor

Dowd #1

 PO Box 783188
 Wichita, KS 67202

25-17-30 Lane, Ks

Job Ticket: 17505

DST#: 1

ATTN: Ritchie Explor

Test Start: 2003.06.08 @ 04:03:42

GENERAL INFORMATION:

Formation: J-K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:42:25

Time Test Ended: 10:50:10

Interval: 4175.00 ft (KB) To 4225.00 ft (KB) (TVD)

Total Depth: 4225.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Reference Elevations: 2831.00 ft (KB)

2826.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2341

Inside

Press@RunDepth: 193.70 psig @ 4176.00 ft (KB)

Start Date: 2003.06.08

End Date:

2003.06.08

Start Time: 04:03:42

End Time:

10:50:10

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2003.06.08 @ 05:41:10

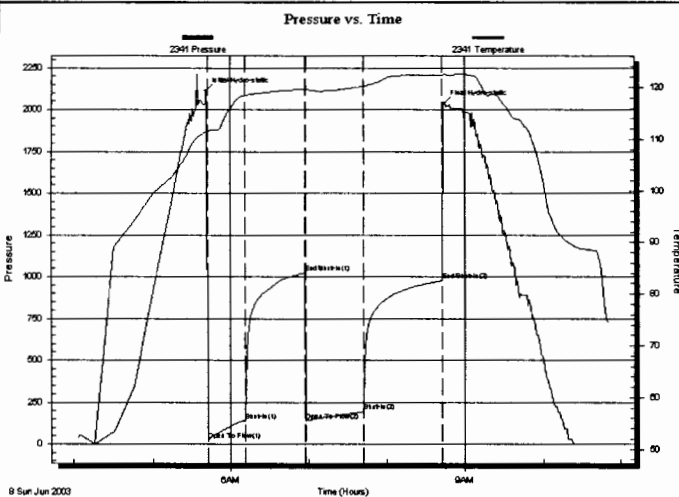
Time Off Btm: 2003.06.08 @ 08:43:55

TEST COMMENT: 1" in @ open built to 5 1/2" in

No return

Surface blow in 3 min built to 1 3/4" in

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.55	111.46	Initial Hydro-static
2	24.69	111.62	Open To Flow (1)
31	138.57	118.46	Shut-In (1)
77	1022.51	119.68	End Shut-In (1)
77	140.93	119.68	Open To Flow (2)
122	193.70	120.23	Shut-In (2)
182	976.09	122.46	End Shut-In (2)
183	2037.25	122.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	s m c w 5% m 95% w	1.20
135.00	w c m 35% w 65% m	1.89

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

Ritchie Explor

Dowd #1

 PO Box 783188
 Wichita, KS 67202

25-17-30 Lane, Ks

Job Ticket: 17505

DST#: 1

ATTN: Ritchie Explor

Test Start: 2003.06.08 @ 04:03:42

Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume:	56.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4175.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 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			4156.00	
S.I. Tool	5.00			4161.00	
HMV	5.00			4166.00	
Packer	5.00			4171.00	20.00 Bottom Of Top Packer
Packer	4.00			4175.00	
Stubb	1.00			4176.00	
Recorder	0.00	2341	Inside	4176.00	
Perforations	11.00			4187.00	
C.O. Sub	1.00			4188.00	
drillpipe	31.00			4219.00	
C.O. Sub	1.00			4220.00	
Recorder	0.00	11058	Outside	4220.00	
Bullnose	5.00			4225.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00

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FROM
CONFIDENTIAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Explor

Dowd #1

 PO Box 783188
 Wichita, KS 67202

25-17-30 Lane, Ks

Job Ticket: 17505

DST#: 1

ATTN: Ritchie Explor

Test Start: 2003.06.08 @ 04:03:42

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:

32000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
245.00	s m c w 5% m 95% w	1.205
135.00	w c m 35% w 65% m	1.894

Total Length: 380.00 ft

Total Volume: 3.099 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

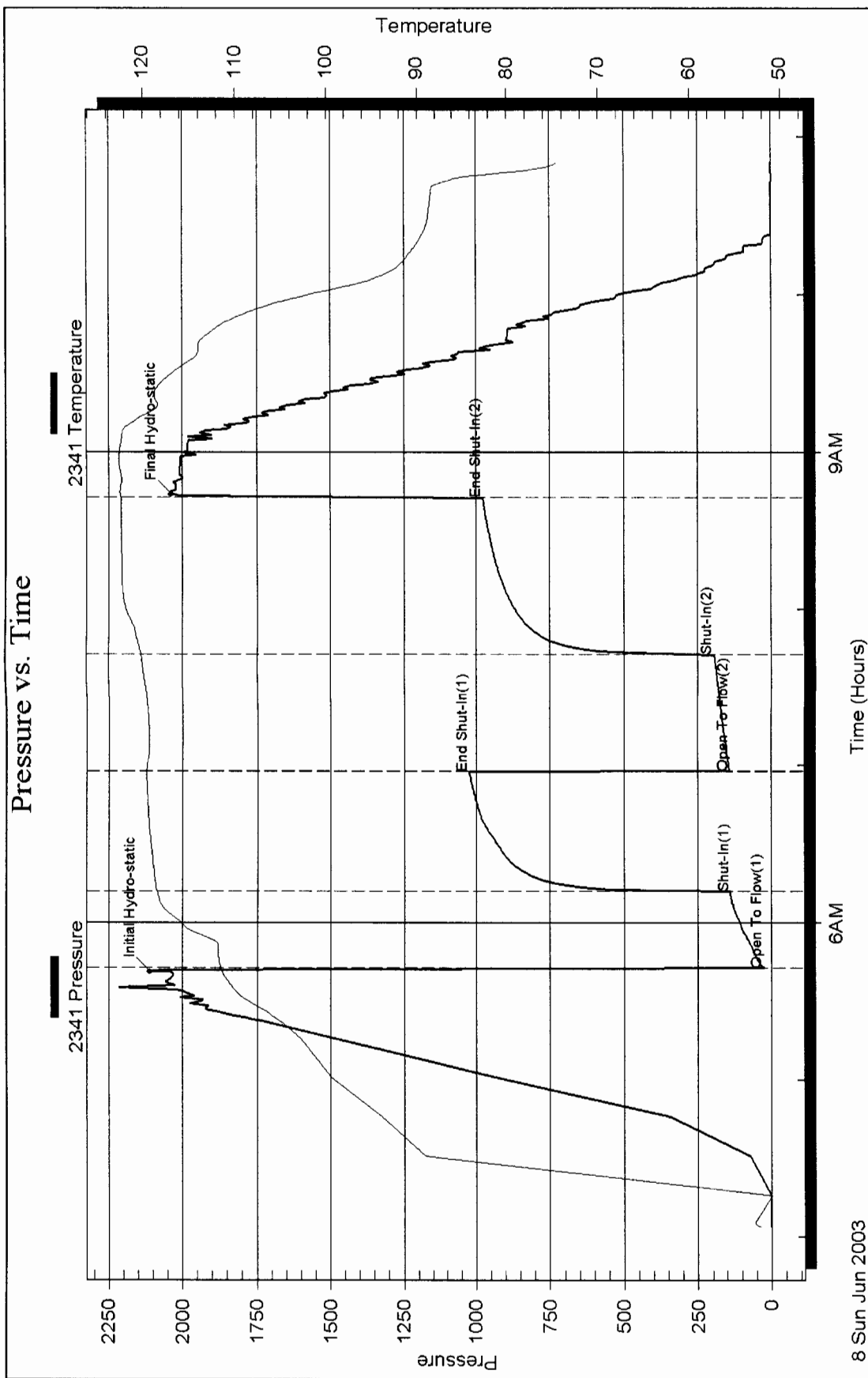
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Explor**

PO Box 783188
Wichita, KS 67202

ATTN: Ritchie Explor

25-17-30 Lane,Ks

Dowd #1

Start Date: 2003.06.09 @ 02:48:24

End Date: 2003.06.09 @ 09:25:52

Job Ticket #: 17507 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

Ritchie Explor

PO Box 783188
Wichita, KS 67202

ATTN: Ritchie Explor

Dowd #1

25-17-30 Lane, Ks

Job Ticket: 17507

DST#: 2

Test Start: 2003.06.09 @ 02:48:24

GENERAL INFORMATION:

Formation: **Pleas-Marm**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:20:37

Time Test Ended: 09:25:52

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4279.00 ft (KB) To 4334.00 ft (KB) (TVD)**

Total Depth: 4334.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2831.00 ft (KB)

2826.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2341

Inside

Press@RunDepth: 289.91 psig @ 4280.00 ft (KB)

Start Date: 2003.06.09

End Date:

2003.06.09

Start Time: 02:48:24

End Time:

09:25:52

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2003.06.09 @ 04:20:22

Time Off Btm: 2003.06.09 @ 07:23:52

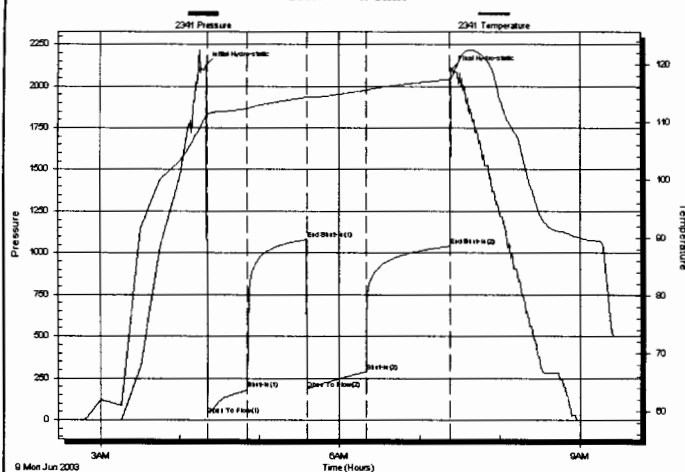
TEST COMMENT: 1" in @ open B.O.B. in 28 min.

No return

Surface blow in 2 min B.O.B. in 28 min

No return

Pressure vs. Time



PRESSURE SUMMARY

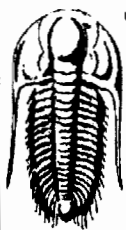
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.27	111.07	Initial Hydro-static
1	29.84	111.15	Open To Flow (1)
31	181.91	112.42	Shut-In(1)
76	1080.75	114.37	End Shut-In(1)
76	187.53	114.38	Open To Flow (2)
120	289.91	115.55	Shut-In(2)
183	1041.94	117.48	End Shut-In(2)
184	2102.58	117.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	water 100%w	1.20
200.00	s m c w 10% m 90% w	2.81
180.00	m c w 45% m 55% w	2.52

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Explor

PO Box 783188
Wichita, KS 67202

ATTN: Ritchie Explor

Dowd #1

25-17-30 Lane, Ks

Job Ticket: 17507

DST#: 2

Test Start: 2003.06.09 @ 02:48:24

Tool Information

Drill Pipe:	Length: 4020.00 ft	Diameter: 3.80 inches	Volume: 56.39 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	57.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4279.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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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C.O. Sub	1.00			4260.00	
S.I. Tool	5.00			4265.00	
HMV	5.00			4270.00	
Packer	5.00			4275.00	20.00 Bottom Of Top Packer
Packer	4.00			4279.00	
Stubb	1.00			4280.00	
Recorder	0.00	2341	Inside	4280.00	
Perforations	16.00			4296.00	
C.O. Sub	1.00			4297.00	
drillpipe	31.00			4328.00	
C.O. Sub	1.00			4329.00	
Recorder	0.00	11058	Outside	4329.00	
Bullnose	5.00			4334.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Explor

Dowd #1

PO Box 783188
Wichita, KS 67202

25-17-30 Lane, Ks

Job Ticket: 17507

DST#: 2

ATTN: Ritchie Explor

Test Start: 2003.06.09 @ 02:48:24

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:

35500 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
245.00	water 100%w	1.205
200.00	s m c w 10% m 90% w	2.805
180.00	m c w 45% m 55% w	2.525

Total Length: 625.00 ft

Total Volume: 6.535 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

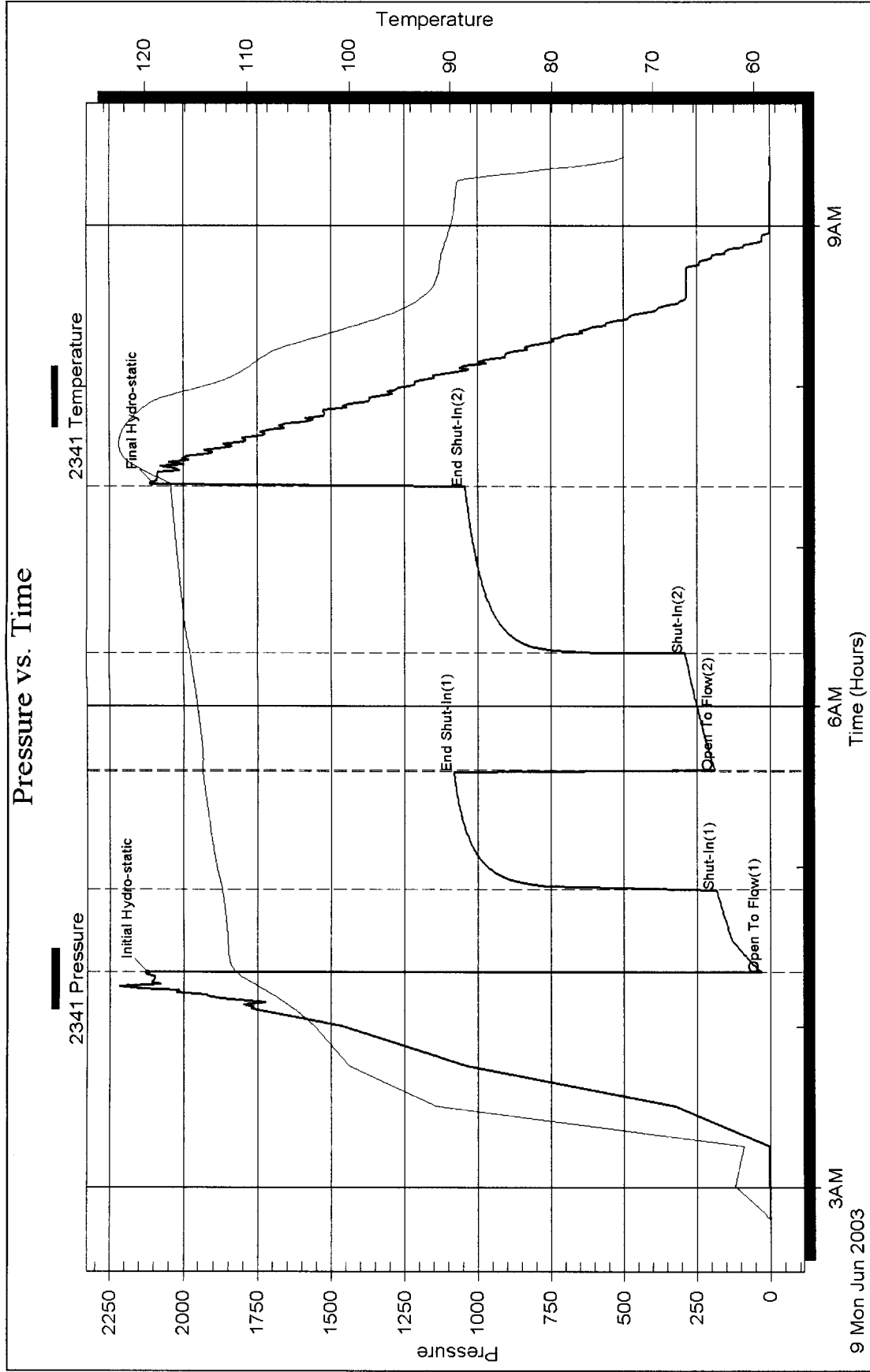
Serial #: 2341

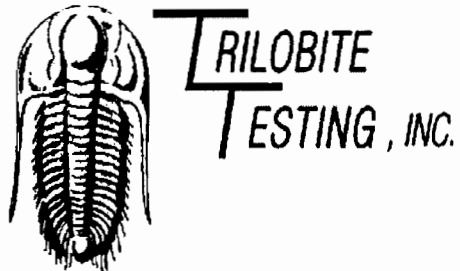
Inside

Ritchie Explor

25-17-30 Lane, Ks

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ritchie Explor**

PO Box 783188
Wichita, KS 67202

ATTN: Ritchie Explor

25-17-30 Lane,Ks

Dowd #1

Start Date: 2003.06.10 @ 06:33:57

End Date: 2003.06.10 @ 12:10:10

Job Ticket #: 17508 DST #: 3

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 Explor

PO Box 783188
Wichita, KS 67202

ATTN: Ritchie Explor

Dowd #1

25-17-30 Lane, Ks

Job Ticket: 17508

DST#: 3

Test Start: 2003.06.10 @ 06:33:57

GENERAL INFORMATION:

Formation: **myric station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:55

Time Test Ended: 12:10:10

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4421.00 ft (KB) To 4450.00 ft (KB) (TVD)**

Total Depth: 4450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2831.00 ft (KB)

2826.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 2341

Inside

Press@RunDepth: 20.87 psig @ 4422.00 ft (KB)

Start Date: 2003.06.10

End Date:

2003.06.10

Start Time: 06:33:57

End Time:

12:10:10

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2003.06.10 @ 08:29:40

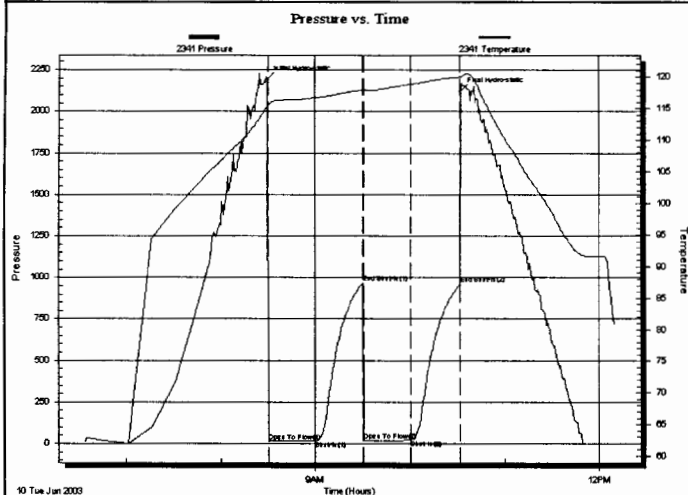
Time Off Btm: 2003.06.10 @ 10:32:10

TEST COMMENT: Weak blow died in 10 min.

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.18	115.33	Initial Hydro-static
1	14.92	115.43	Open To Flow (1)
31	18.18	116.71	Shut-In(1)
61	967.84	117.97	End Shut-In(1)
61	18.30	117.98	Open To Flow (2)
91	20.87	118.87	Shut-In(2)
123	960.99	120.02	End Shut-In(2)
123	2121.87	120.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil spots on top 100%m	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Explor

Dowd #1

PO Box 783188
Wichita, KS 67202

25-17-30 Lane, Ks

Job Ticket: 17508

DST#: 3

ATTN: Ritchie Explor

Test Start: 2003.06.10 @ 06:33:57

Tool Information

Drill Pipe:	Length: 4176.00 ft	Diameter: 3.80 inches	Volume: 58.58 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 59.78 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4421.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 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			4402.00	
S.I. Tool	5.00			4407.00	
HMV	5.00			4412.00	
Packer	5.00			4417.00	20.00 Bottom Of Top Packer
Packer	4.00			4421.00	
Stubb	1.00			4422.00	
Recorder	0.00	2341	Inside	4422.00	
Perforations	23.00			4445.00	
Recorder	0.00	11058	Outside	4445.00	
Bullnose	5.00			4450.00	29.00 Bottom Packers & Anchor
Total Tool Length:		49.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Explor

Dowd #1

PO Box 783188
Wichita, KS 67202

25-17-30 Lane, Ks

Job Ticket: 17508

DST#: 3

ATTN: Ritchie Explor

Test Start: 2003.06.10 @ 06:33:57

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:

1800 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w/oil spots on top 100% m	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

