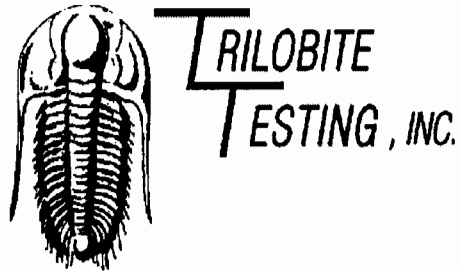


15-097-21508



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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources,inc.**

520 S Holland Ste 207
Wichita KS 67209

ATTN: Kent Roberts

16-29S-18W

Mary #1

Mary/Dangel Unit 1

Start Date: 2003.07.03 @ 18:39:14

End Date: 2003.07.04 @ 02:32:14

Job Ticket #: 17872 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

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

ATTN: Kent Roberts

Job Ticket: 17872

DST#: 1

Test Start: 2003.07.03 @ 18:39:14

GENERAL INFORMATION:

Formation: **Pleasanton-Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:58:59

Time Test Ended: 02:32:14

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **4706.00 ft (KB) To 4780.00 ft (KB) (TVD)**

Reference Elevations: 2223.30 ft (KB)

Total Depth: 4780.00 ft (KB) (TVD)

2210.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.30 ft

Serial #: 2346

Inside

Press@RunDepth: 51.79 psig @ 4720.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.07.03

End Date: 2003.07.04

Last Calib.: 2003.07.04

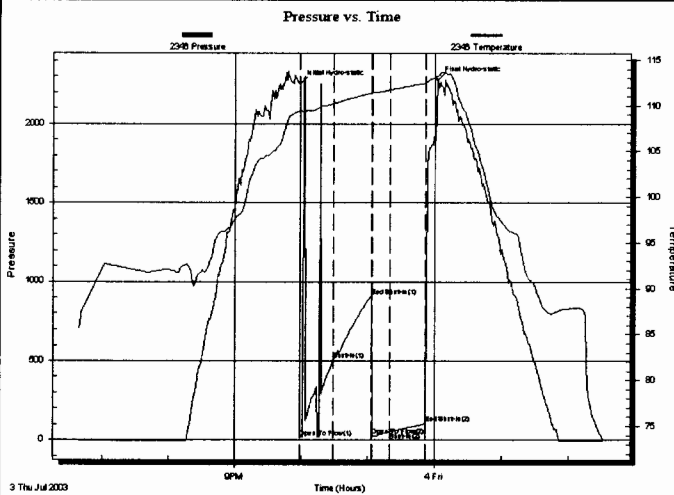
Start Time: 18:39:16

End Time: 02:32:14

Time On Btm: 2003.07.03 @ 21:58:29

Time Off Btm: 2003.07.04 @ 00:01:59

TEST COMMENT: F:Weak surface blow died in 30 sec.w ait 15 mins.Flush tool dead blow wait 15 mins.close tool.
IS:No blow back.
FF:Dead blow .
FSI:No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.42	109.42	Initial Hydro-static
1	17.36	109.41	Open To Flow (1)
31	503.28	110.22	Shut-In(1)
65	906.91	111.37	End Shut-In(1)
66	25.55	111.49	Open To Flow (2)
81	51.79	111.71	Shut-In(2)
114	103.94	112.46	End Shut-In(2)
124	2278.18	113.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGCM 2%gas 98%mud	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17872

DST#: 1

ATTN: Kent Roberts

Test Start: 2003.07.03 @ 18:39:14

Tool Information

Drill Pipe:	Length: 4722.00 ft	Diameter: 3.80 inches	Volume: 66.24 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 66.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4706.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4691.00	
Shut In Tool	5.00			4696.00	
Hydraulic tool	5.00			4701.00	
Packer	5.00			4706.00	16.00 Bottom Of Top Packer
Recorder	5.00			4711.00	
Stubb	1.00			4712.00	
Anchor	8.00			4720.00	
Recorder	0.00	2346	Inside	4720.00	
Blank Spacing	63.00			4783.00	
Recorder	0.00	10991	Outside	4783.00	
Bullnose	2.00			4785.00	79.00 Anchor Tool

Total Tool Length: 95.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17872

DST#: 1

ATTN: Kent Roberts

Test Start: 2003.07.03 @ 18:39:14

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.94 in³

Gas Cushion Type:

Resistivity: 0.90 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGCM 2%gas 98%mud	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2346

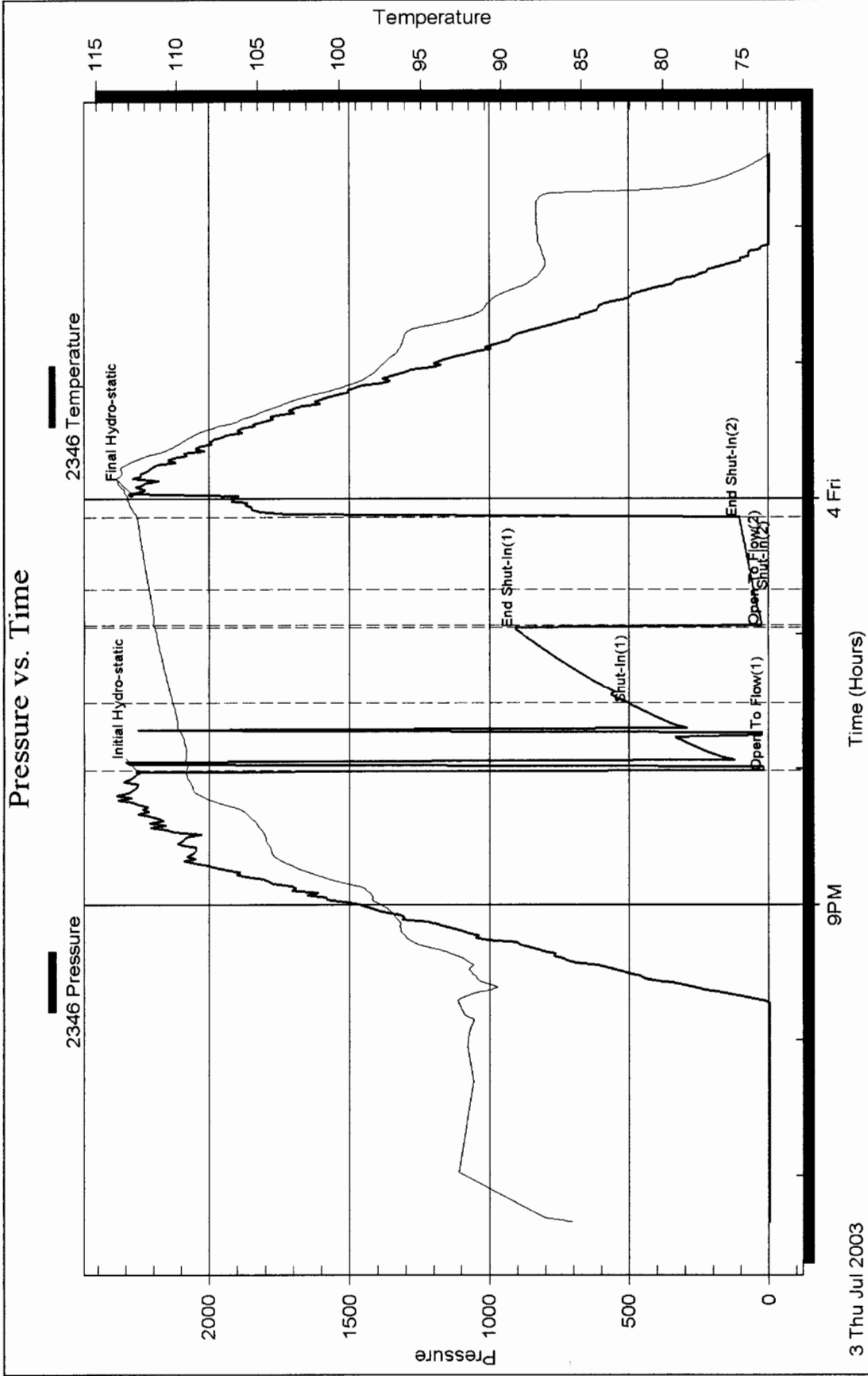
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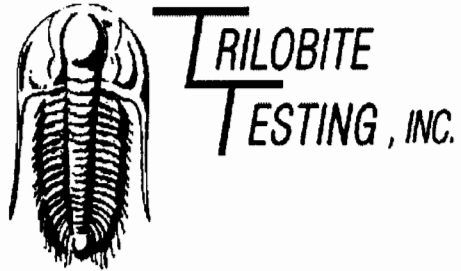
Roberts Resources, Inc.

16-29S-18W

DST Test Number: 1

Pressure vs. Time





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OCT 23 2003
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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources,inc.**

520 S Holland Ste 207
Wichita KS 67209

ATTN: Kent Roberts

16-29S-18W

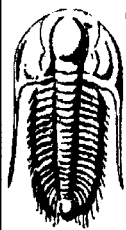
Mary #1

Start Date: 2003.07.04 @ 14:17:29

End Date: 2003.07.04 @ 22:34:29

Job Ticket #: 17873 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

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

ATTN: Kent Roberts

Job Ticket: 17873

DST#: 2

Test Start: 2003.07.04 @ 14:17:29

GENERAL INFORMATION:

Formation: **Pawnee**

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

Time Tool Opened: 16:17:44

Time Test Ended: 22:34:29

Test Type: **Conventional Bottom Hole**

Tester: **Darren L.Amerine**

Unit No: **19**

Interval: **4792.00 ft (KB) To 4840.00 ft (KB) (TVD)**

Total Depth: **4840.00 ft (KB) (TVD)**

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

Reference Elevations: **2223.30 ft (KB)**

2210.00 ft (CF)

KB to GR/CF: **13.30 ft**

Serial #: 2346

Inside

Press@RunDepth: **33.61 psig @ 4805.00 ft (KB)**

Start Date: **2003.07.04**

End Date:

2003.07.04

Start Time: **14:17:31**

End Time:

22:34:29

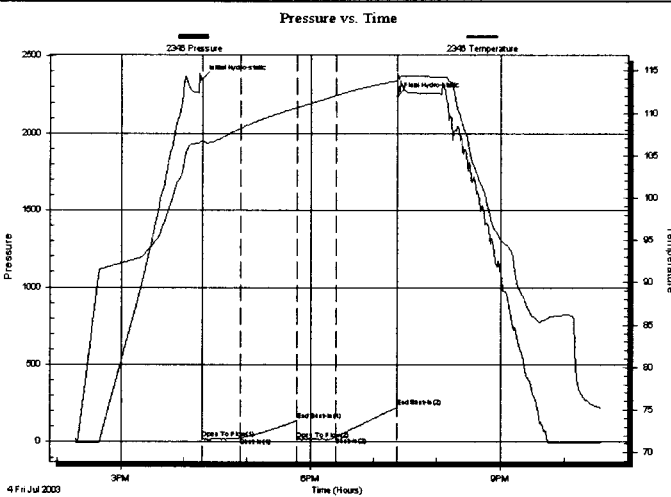
Capacity: **7000.00 psig**

Last Calib.: **2003.07.04**

Time On Btm: **2003.07.04 @ 16:17:14**

Time Off Btm: **2003.07.04 @ 19:22:14**

TEST COMMENT: IF:Weak blow built to 2" in H2O bucket.
IS:Bled down n for 2 mins.no blow back.
FF:Weak blow built to 4" in H2O bucket.
FS:Bled down n for 5 mins.no blow back.



PRESSURE SUMMARY

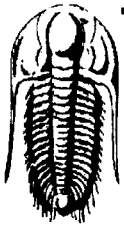
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2350.78	106.71	Initial Hydro-static
1	19.65	106.65	Open To Flow (1)
36	25.31	108.21	Shut-In(1)
90	137.95	110.66	End Shut-In(1)
91	16.12	110.71	Open To Flow (2)
127	33.61	112.09	Shut-In(2)
185	223.72	113.82	End Shut-In(2)
185	2239.87	114.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	120' GIP	0.00
20.00	VSGCM 4% gas 96% mud	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17873

DST#: 2

ATTN: Kent Roberts

Test Start: 2003.07.04 @ 14:17:29

Tool Information

Drill Pipe:	Length: 4781.00 ft	Diameter: 3.80 inches	Volume: 67.06 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 67.06 bbl</u>	Tool Chased 2.50 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4792.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4772.00	
Shut In Tool	5.00			4777.00	
Hydraulic tool	5.00			4782.00	
Packer	5.00			4787.00	21.00 Bottom Of Top Packer
Packer	5.00			4792.00	
Stubb	1.00			4793.00	
Anchor	12.00			4805.00	
Recorder	0.00	2346	Inside	4805.00	
Blank Spacing	32.00			4837.00	
Recorder	0.00	10991	Outside	4837.00	
Bullnose	3.00			4840.00	48.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17873

DST#: 2

ATTN: Kent Roberts

Test Start: 2003.07.04 @ 14:17:29

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:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	120' GIP	0.000
20.00	VSGCM 4%gas 96%mud	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

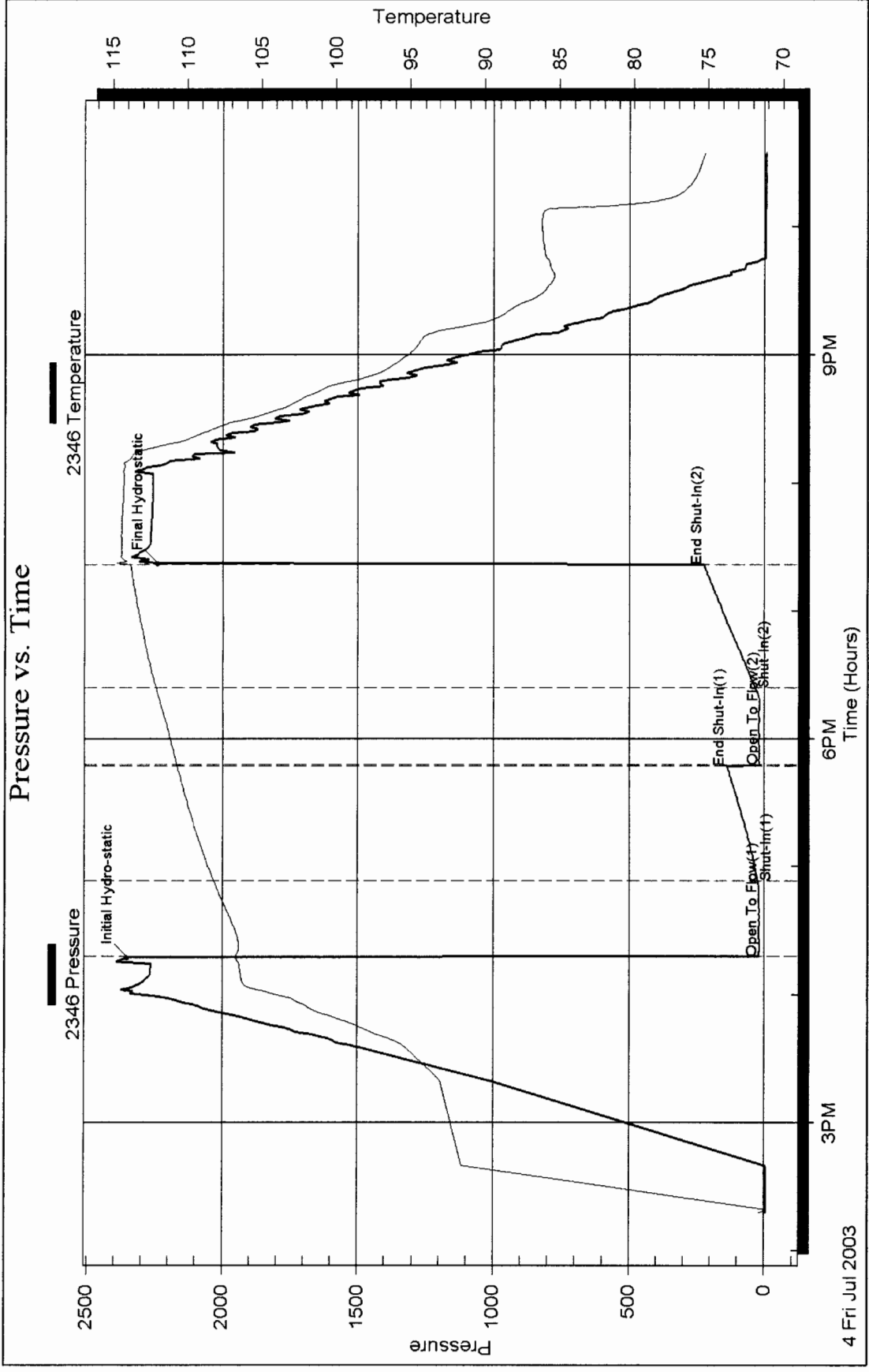
Serial #:

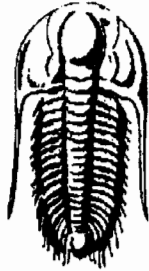
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources,inc.**

520 S Holland Ste 207
Wichita KS 67209

ATTN: Kent Roberts

16-29S-18W

Mary #1

Start Date: 2003.07.05 @ 09:53:36

End Date: 2003.07.05 @ 17:14:04

Job Ticket #: 17874 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

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17874

DST#: 3

ATTN: Kent Roberts

Test Start: 2003.07.05 @ 09:53:36

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 12:50:34

Time Test Ended: 17:14:04

Test Type: **Conventional Bottom Hole**

Tester: **Darren L.Amerine**

Unit No: **19**

Interval: **4890.00 ft (KB) To 4905.00 ft (KB) (TVD)**

Reference Elevations: **2223.30 ft (KB)**

Total Depth: **4905.00 ft (KB) (TVD)**

2210.00 ft (CF)

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

KB to GR/CF: **13.30 ft**

Serial #: 2346

Inside

Press@RunDepth: **13.42 psig @ 4891.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2003.07.05**

End Date:

2003.07.05

Last Calib.: **2003.07.05**

Start Time: **09:53:36**

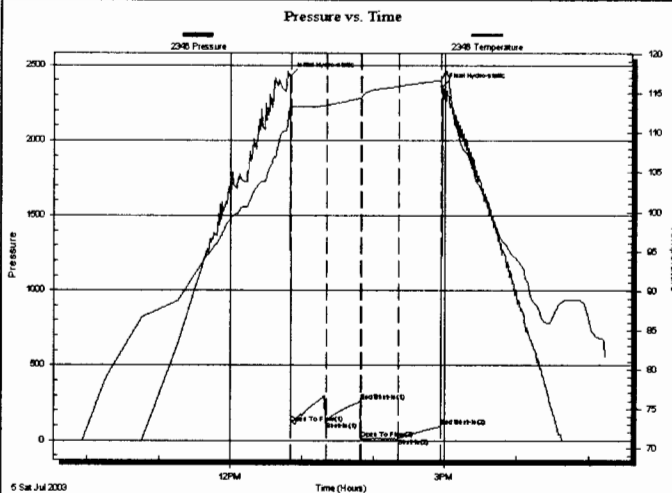
End Time:

17:14:04

Time On Btm: **2003.07.05 @ 12:49:49**

Time Off Btm: **2003.07.05 @ 14:57:19**

TEST COMMENT: F:Fair blow built to 4" in H2O bucket.
IS:Bled down n for 3 mins.no blow back.
FF:Fair blow built to 8" in H2O bucket.
FS:Bled down n for 5 mins.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2429.32	113.39	Initial Hydro-static
1	112.75	113.36	Open To Flow (1)
31	122.21	113.56	Shut-In(1)
60	258.79	114.46	End Shut-In(1)
60	9.71	114.57	Open To Flow (2)
91	13.42	115.94	Shut-In(2)
127	93.83	116.71	End Shut-In(2)
128	2357.69	116.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	230' of gip	0.00
10.00	GCM 10% gas 90% mud	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17874

DST#: 3

ATTN: Kent Roberts

Test Start: 2003.07.05 @ 09:53:36

Tool Information

Drill Pipe:	Length: 4874.00 ft	Diameter: 3.80 inches	Volume: 68.37 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 68.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4890.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 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			4870.00	
Shut In Tool	5.00			4875.00	
Hydraulic tool	5.00			4880.00	
Packer	5.00			4885.00	21.00 Bottom Of Top Packer
Packer	5.00			4890.00	
Stubb	1.00			4891.00	
Recorder	0.00	2346	Inside	4891.00	
Anchor	12.00			4903.00	
Recorder	0.00	10991	Outside	4903.00	
Bullnose	2.00			4905.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17874

DST#: 3

ATTN: Kent Roberts

Test Start: 2003.07.05 @ 09:53:36

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.36 in ³	Gas Cushion Type:		
Resistivity: 1.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.32 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	230'of gip	0.000
10.00	GCM 10%gas 90%mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 2346

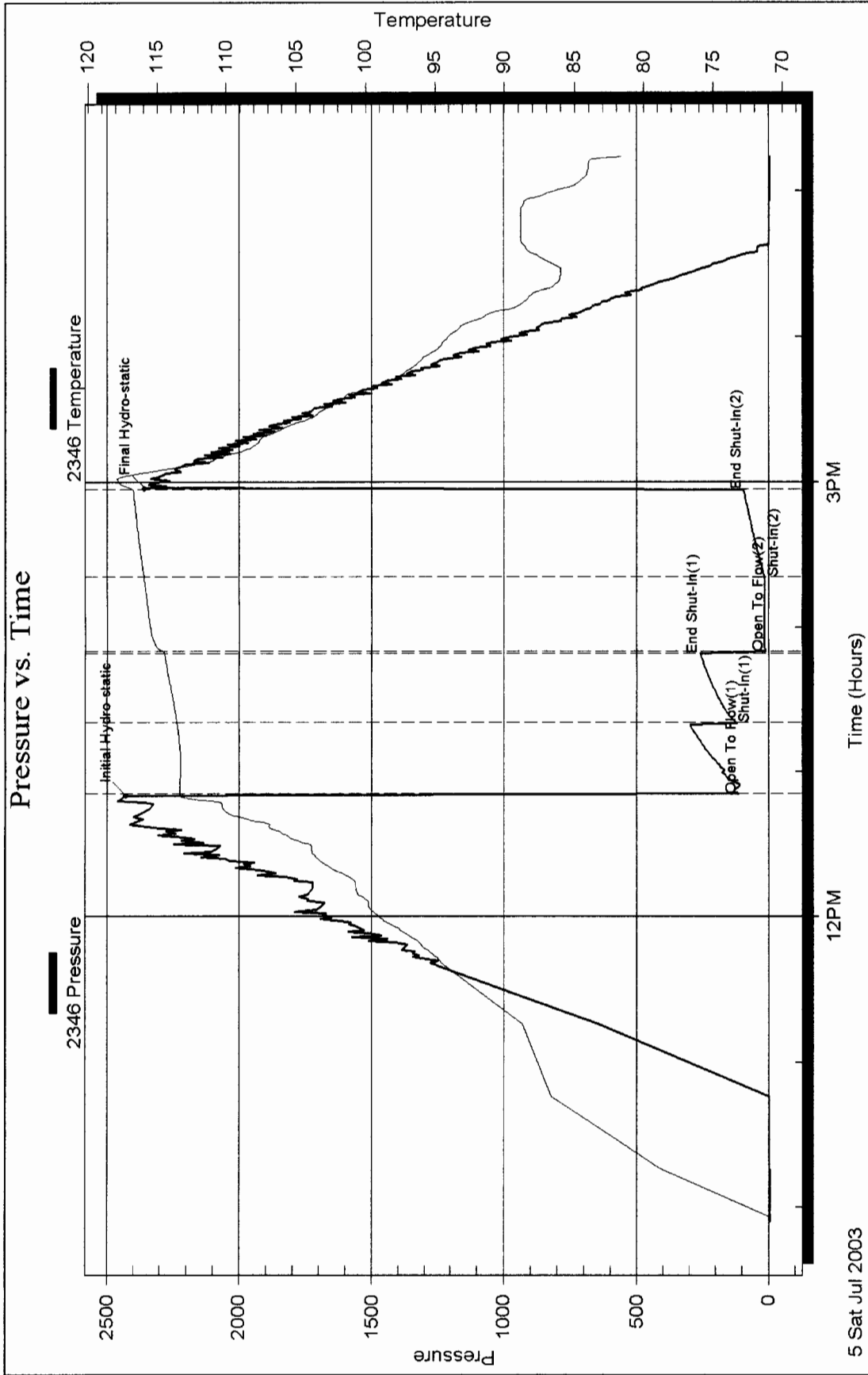
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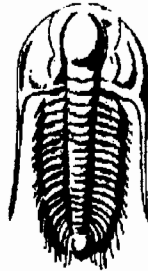
Roberts Resources, Inc.

16-29S-18W

DST Test Number: 3

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources,inc.**

520 S Holland Ste 207
Wichita KS 67209

ATTN: Kent Roberts

16-29S-18W

Mary #1

Start Date: 2003.07.06 @ 21:14:19

End Date: 2003.07.07 @ 05:40:32

Job Ticket #: 17875 DST #: 4

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

ATTN: Kent Roberts

Job Ticket: 17875

DST#: 4

Test Start: 2003.07.06 @ 21:14:19

GENERAL INFORMATION:

Formation: **Viola**

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

Test Type: **Conventional Bottom Hole**

Time Tool Opened: 00:13:02

Tester: **Darren L.Amerine**

Time Test Ended: 05:40:32

Unit No: **19**

Interval: **5138.00 ft (KB) To 5178.00 ft (KB) (TVD)**

Reference Elevations: **2223.30 ft (KB)**

Total Depth: **5178.00 ft (KB) (TVD)**

2210.00 ft (CF)

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

KB to GR/CF: **13.30 ft**

Serial #: 2346

Inside

Press@RunDepth: **63.27 psig @ 5149.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2003.07.06** End Date: **2003.07.07**

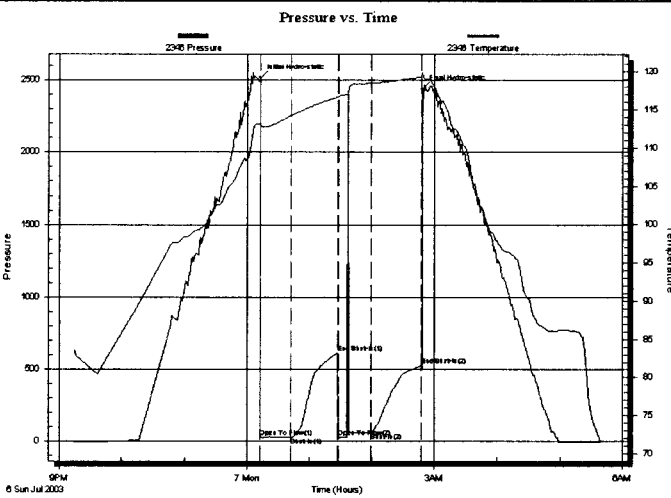
Last Calib.: **2003.07.07**

Start Time: **21:14:19** End Time: **05:40:32**

Time On Btm: **2003.07.07 @ 00:12:32**

Time Off Btm: **2003.07.07 @ 02:48:02**

TEST COMMENT: IF:Weak blow built to 1" in H2O bucket.
IS:Bled down n for 5 mins.no b.b.
FF:Dead blow wait 10 mins.flush tool built to 3" in H2O bucket.
FS:Bled down n for 5 minms.no b.b.



PRESSURE SUMMARY

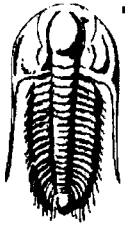
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2514.98	113.12	Initial Hydro-static
1	27.28	113.01	Open To Flow (1)
30	27.86	114.22	Shut-In(1)
75	615.82	116.68	End Shut-In(1)
76	28.92	116.80	Open To Flow (2)
107	63.27	118.49	Shut-In(2)
155	527.22	119.32	End Shut-In(2)
156	2440.40	119.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	30' of gip	0.00
90.00	GCM 10% gas 90% mud	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17875

DST#: 4

ATTN: Kent Roberts

Test Start: 2003.07.06 @ 21:14:19

Tool Information

Drill Pipe:	Length: 5123.00 ft	Diameter: 3.80 inches	Volume: 71.86 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 71.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	5138.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	61.00 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			5118.00	
Shut In Tool	5.00			5123.00	
Hydraulic tool	5.00			5128.00	
Packer	5.00			5133.00	21.00 Bottom Of Top Packer
Packer	5.00			5138.00	
Stubb	1.00			5139.00	
Anchor	10.00			5149.00	
Recorder	0.00	2346	Inside	5149.00	
Anchor	26.00			5175.00	
Recorder	0.00	10991	Outside	5175.00	
Bullnose	3.00			5178.00	40.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17875

DST#: 4

ATTN: Kent Roberts

Test Start: 2003.07.06 @ 21:14:19

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in ³	Gas Cushion Type:		
Resistivity: 0.90 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.32 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	30' of gip	0.000
90.00	GCM 10% gas 90% mud	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2346

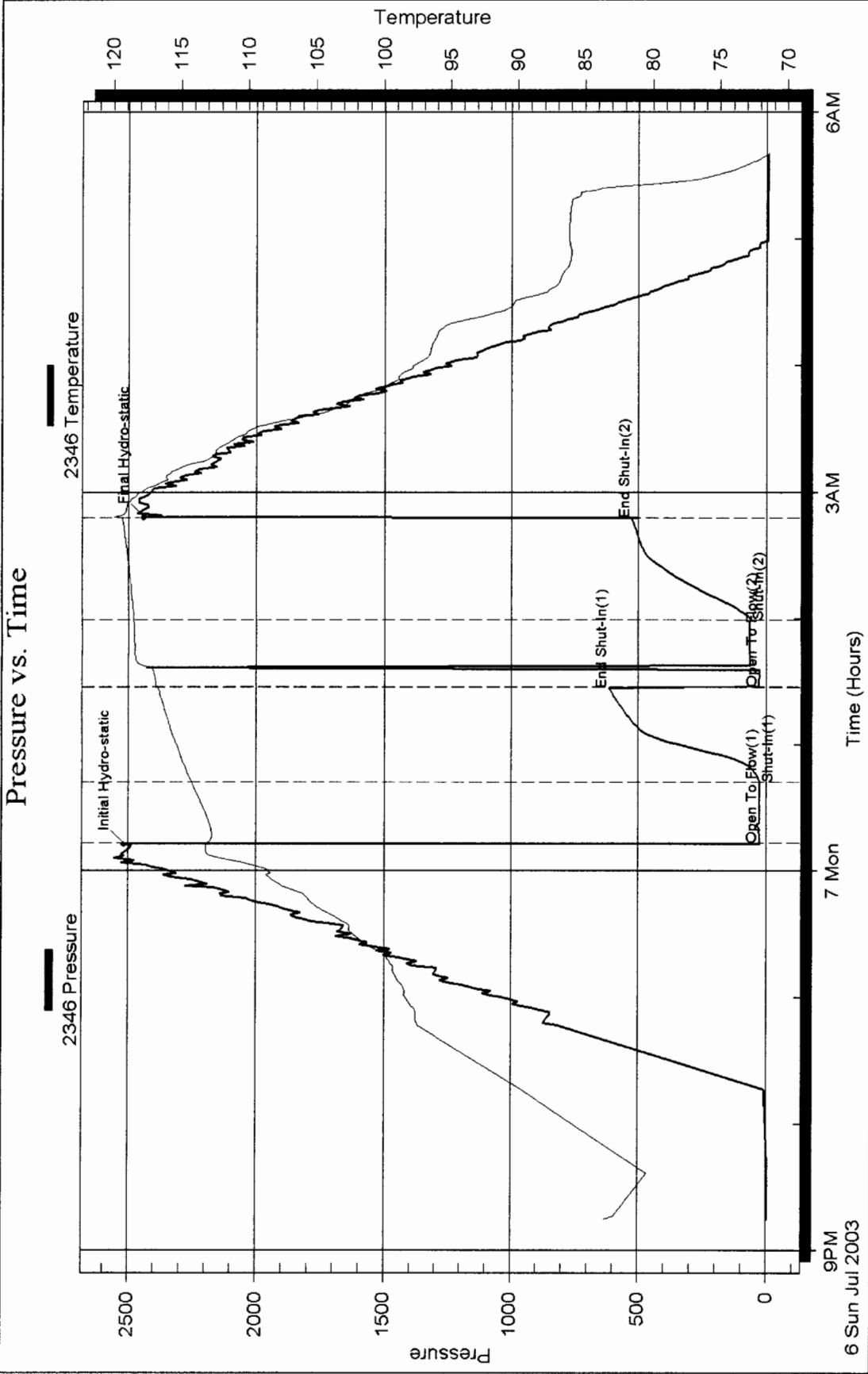
Inside

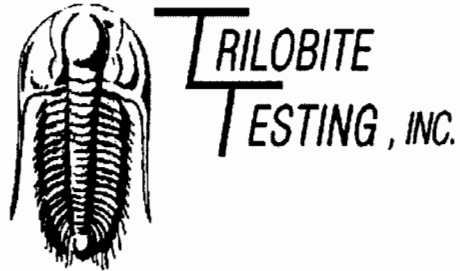
Roberts Resources, Inc.

16-29S-18W

DST Test Number: 4

Pressure vs. Time





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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources,inc.**

520 S Holland Ste 207
Wichita KS 67209

ATTN: Kent Roberts

16-29S-18W

Mary #1

Start Date: 2003.07.07 @ 19:36:38

End Date: 2003.07.08 @ 06:02:08

Job Ticket #: 17051 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

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

ATTN: Kent Roberts

Job Ticket: 17051

DST#: 5

Test Start: 2003.07.07 @ 19:36:38

GENERAL INFORMATION:

Formation: **Lower (Viola)**

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

Time Tool Opened: 22:58:23

Time Test Ended: 06:02:08

Test Type: Conventional

Tester: Darren L. Amerine

Unit No: 19

Interval: **5205.00 ft (KB) To 5240.00 ft (KB) (TVD)**

Reference Elevations: 2223.30 ft (KB)

Total Depth: 5240.00 ft (KB) (TVD)

2210.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.30 ft

Serial #: 2346

Inside

Press@RunDepth: 158.48 psig @ 5216.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.07.07

End Date:

2003.07.08

Last Calib.: 2003.07.08

Start Time: 19:36:40

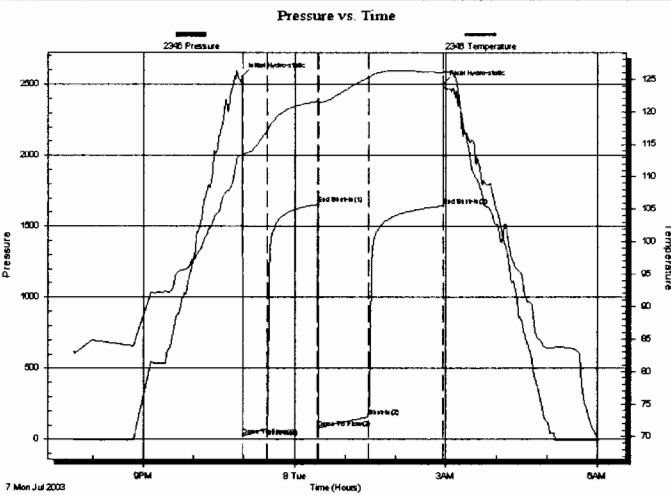
End Time:

06:02:08

Time On Btm: 2003.07.07 @ 22:57:53

Time Off Btm: 2003.07.08 @ 02:56:23

TEST COMMENT: IF: Weak blow built to 6" in H2O bucket.
IS: Bled down n for 5 mins. no blow back.
FF: Weak surface blow built to 8" in H2O bucket.
FS: Bled down n for 3 mins. no blow back.



PRESSURE SUMMARY

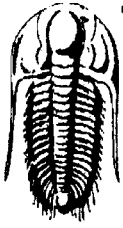
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2553.07	113.29	Initial Hydro-static
1	23.83	113.27	Open To Flow (1)
30	74.24	117.08	Shut-in(1)
90	1654.47	121.54	End Shut-in(1)
90	79.25	121.62	Open To Flow (2)
150	158.48	125.24	Shut-in(2)
238	1643.35	126.01	End Shut-in(2)
239	2500.54	126.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	SMCW 10% water 90% mud	3.37
45.00	WCM 40% mud 60% water	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, inc.
520 S Holland Ste 207
Wichita KS 67209
ATTN: Kent Roberts

Mary #1
16-29S-18W
Job Ticket: 17051 **DST#: 5**
Test Start: 2003.07.07 @ 19:36:38

Tool Information

Drill Pipe:	Length: 5215.00 ft	Diameter: 3.80 inches	Volume: 73.15 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 73.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5205.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	0.00 ft			
Tool Length:	56.00 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			5185.00	
Shut In Tool	5.00			5190.00	
Hydraulic tool	5.00			5195.00	
Packer	5.00			5200.00	21.00 Bottom Of Top Packer
Packer	5.00			5205.00	
Stubb	1.00			5206.00	
Anchor	10.00			5216.00	
Recorder	0.00	2346	Inside	5216.00	
Anchor	21.00			5237.00	
Recorder	0.00	10991	Outside	5237.00	
Bullnose	3.00			5240.00	35.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, inc.

Mary #1

520 S Holland Ste 207
Wichita KS 67209

16-29S-18W

Job Ticket: 17051

DST#: 5

ATTN: Kent Roberts

Test Start: 2003.07.07 @ 19:36:38

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.60 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	SMCW 10%w ater 90%mud	3.367
45.00	WCM 40%mud 60%w ater	0.631

Total Length: 285.00 ft Total Volume: 3.998 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 2346

Inside

Roberts Resources, Inc.

16-29S-18W

DST Test Number: 5

