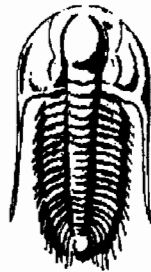


15-097-21481



TRILOBITE
TESTING, INC.

RECEIVED
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KDD WICHITA

DRILL STEM TEST REPORT

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

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

9-29s-18w-Kiowa-Ks

Dargel #1

Start Date: 2002.02.15 @ 12:16:35

End Date: 2002.02.15 @ 18:31:04

Job Ticket #: 15622 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.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15622

DST#: 1

Test Start: 2002.02.15 @ 12:16:35

GENERAL INFORMATION:

Formation: "A" L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:22:04

Time Test Ended: 18:31:04

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 4316.00 ft (KB) To 4334.00 ft (KB) (TVD)

Total Depth: 4334.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2246.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 2357

Inside

Press@RunDepth: 86.14 psig @ 4317.01 ft (KB)

Start Date: 2002.02.15

End Date:

2002.02.15

Start Time: 12:16:35

End Time:

18:31:04

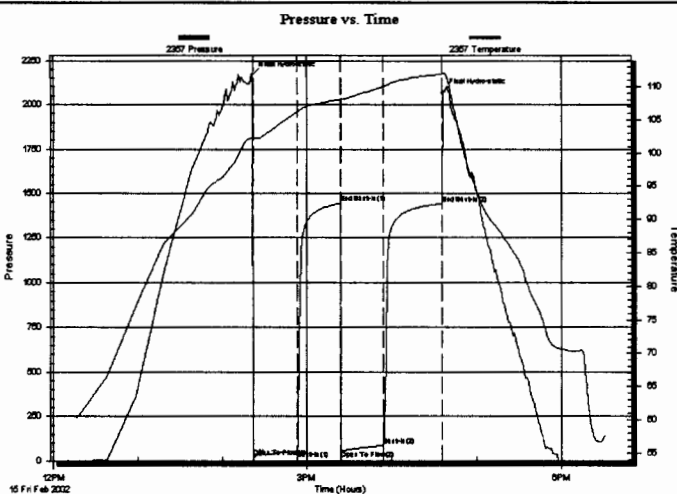
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2002.02.15 @ 14:21:34

Time Off Btm: 2002.02.15 @ 16:36:04

TEST COMMENT: IF-Weak building to 5"
FF-Weak building to 2"
Times-30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.25	102.24	Initial Hydro-static
1	20.55	102.24	Open To Flow (1)
32	56.62	106.18	Shut-In(1)
62	1444.29	108.09	End Shut-In(1)
63	60.47	108.09	Open To Flow (2)
92	86.14	109.96	Shut-In(2)
134	1443.51	111.96	End Shut-In(2)
135	2069.14	111.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Muddy water	1.75

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

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15622

DST#: 1

Test Start: 2002.02.15 @ 12:16:35

Tool Information

Drill Pipe:	Length: 4296.00 ft	Diameter: 3.80 inches	Volume: 60.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 60.26 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	8.02 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4316.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.02 ft			
Tool Length:	46.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4289.00	
S.I. Tool	5.00			4294.00	
HMV	5.00			4299.00	
Jars	5.00			4304.00	
Safety Joint	2.00			4306.00	
Packer	5.00			4311.00	28.00 Bottom Of Top Packer
Packer	5.00			4316.00	
Stubb	1.00			4317.00	
Recorder	0.01	2357	Inside	4317.01	
Perforations	14.00			4331.01	
Recorder	0.01	13254	Outside	4331.02	
Bullnose	3.00			4334.02	18.02 Bottom Packers & Anchor

Total Tool Length: 46.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15622

DST#: 1

ATTN: Kent Roberts

Test Start: 2002.02.15 @ 12:16:35

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Muddy water	1.753

Total Length: 125.00 ft

Total Volume: 1.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

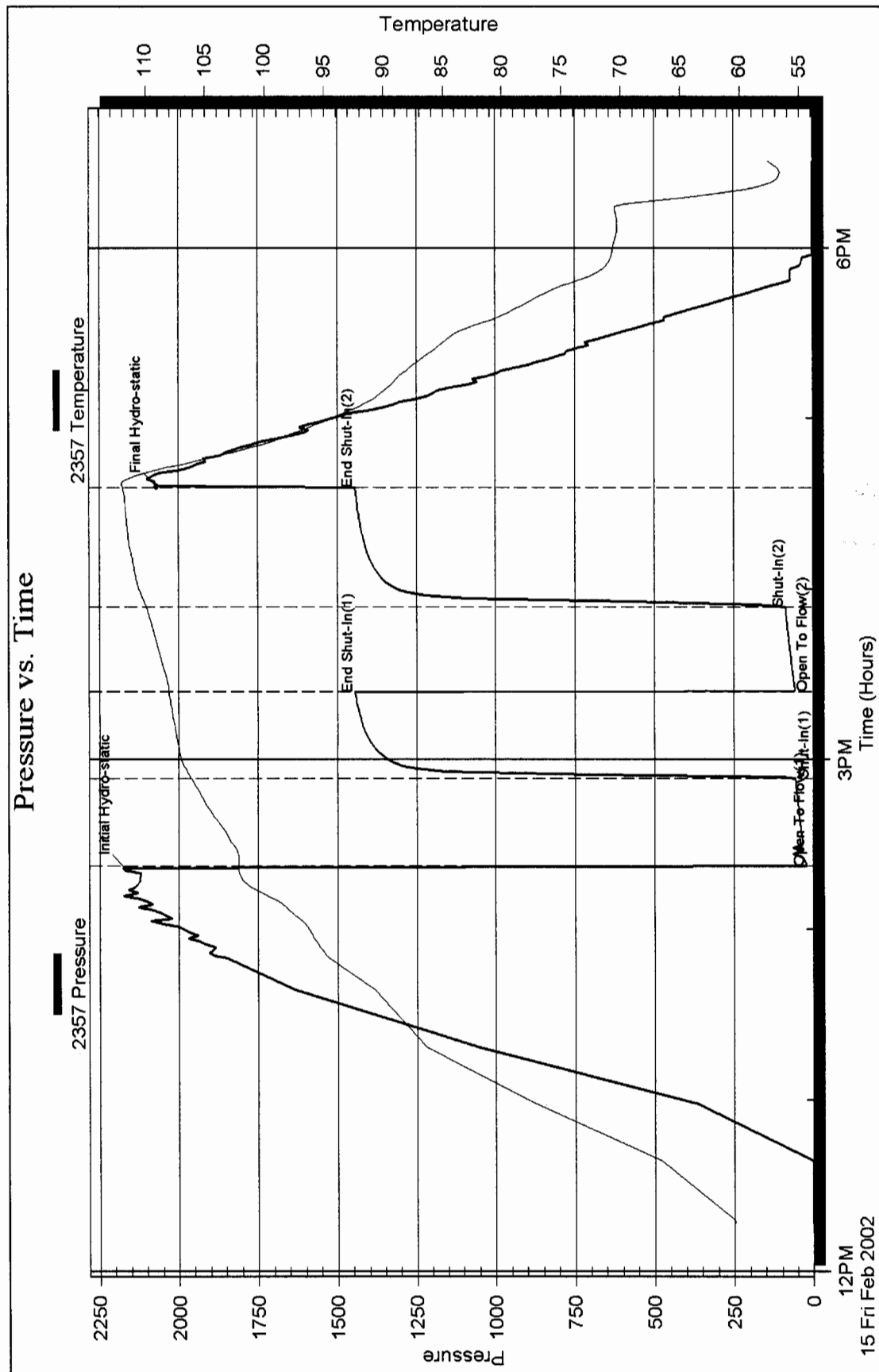
9-29s-18w-KGOW a-Ks

Roberts Resources, Inc.

Inside

Serial #: 2357

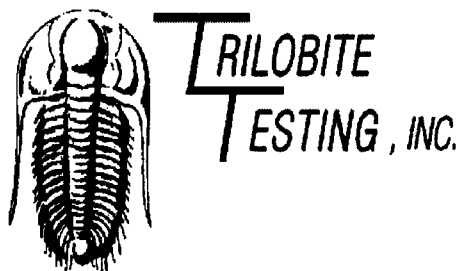
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 15622

Printed: 2002.02.22 @ 09:42:12 Page 5



DRILL STEM TEST REPORT

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

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

9-29s-18w-Kiowa-Ks

Dargel #1

Start Date: 2002.02.16 @ 21:26:35

End Date: 2002.02.17 @ 03:42:05

Job Ticket #: 15759 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.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15759

DST#: 2

Test Start: 2002.02.16 @ 21:26:35

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:31:20

Time Test Ended: 03:42:05

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4616.00 ft (KB) To 4676.00 ft (KB) (TVD)**

Total Depth: 4676.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2246.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 2342

Inside

Press@RunDepth: 98.86 psig @ 4617.00 ft (KB)

Start Date: 2002.02.16

End Date:

2002.02.17

Start Time: 21:26:36

End Time:

03:42:05

Capacity: 7000.00 psig

Last Calib.: 2002.02.17

Time On Btm: 2002.02.16 @ 23:30:50

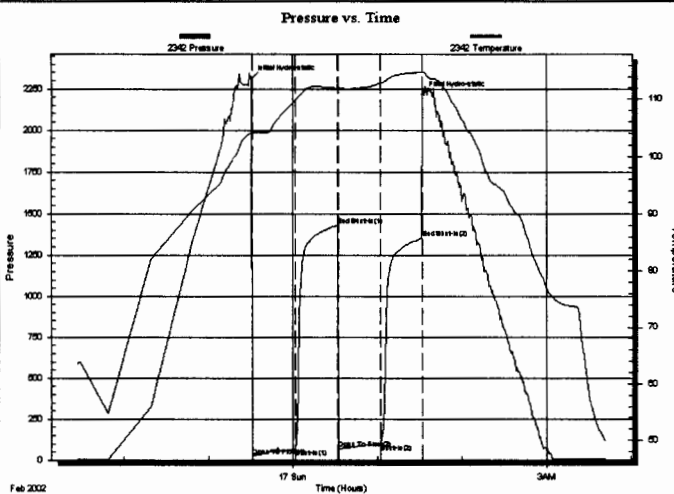
Time Off Btm: 2002.02.17 @ 01:32:05

TEST COMMENT: IF:Weak to fair blow . Slow increase to 6.5".

IS:No blow .

FF:Weak blow . Slow increase to 4".

FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2312.87	104.12	Initial Hydro-static
1	24.50	104.18	Open To Flow (1)
31	67.39	109.84	Shut-In(1)
61	1431.30	111.93	End Shut-In(1)
62	69.65	111.91	Open To Flow (2)
92	98.86	112.88	Shut-In(2)
121	1352.91	114.77	End Shut-In(2)
122	2213.25	114.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WM with oil specs 42%w Rw .17 ohms	0.84
90.00	GCM with oil specs	1.26
0.00	Trace of gas in pipe.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, Inc.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15759

DST#: 2

Test Start: 2002.02.16 @ 21:26:35

Tool Information

Drill Pipe:	Length: 4602.00 ft	Diameter: 3.80 inches	Volume: 64.55 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: 58000.00 lb
		Total Volume: 64.55 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4616.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4597.00	
S.I. Tool	5.00			4602.00	
HMV	5.00			4607.00	
Packer	4.00			4611.00	20.00 Bottom Of Top Packer
Packer	5.00			4616.00	
Stubb	1.00			4617.00	
Recorder	0.00	2342	Inside	4617.00	
Perforations	5.00			4622.00	
C.O. Sub	1.00			4623.00	
Blank Spacing	31.00			4654.00	
C.O. Sub	1.00			4655.00	
Perforations	16.00			4671.00	
Recorder	0.00	10248	Outside	4671.00	
Bullnose	5.00			4676.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15759

DST#: 2

ATTN: Kent Roberts

Test Start: 2002.02.16 @ 21:26:35

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:

57000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WM with oil specs 42%w Rw .17 ohms @ 52	0.842
90.00	GCM with oil specs	1.262
0.00	Trace of gas in pipe.	0.000

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

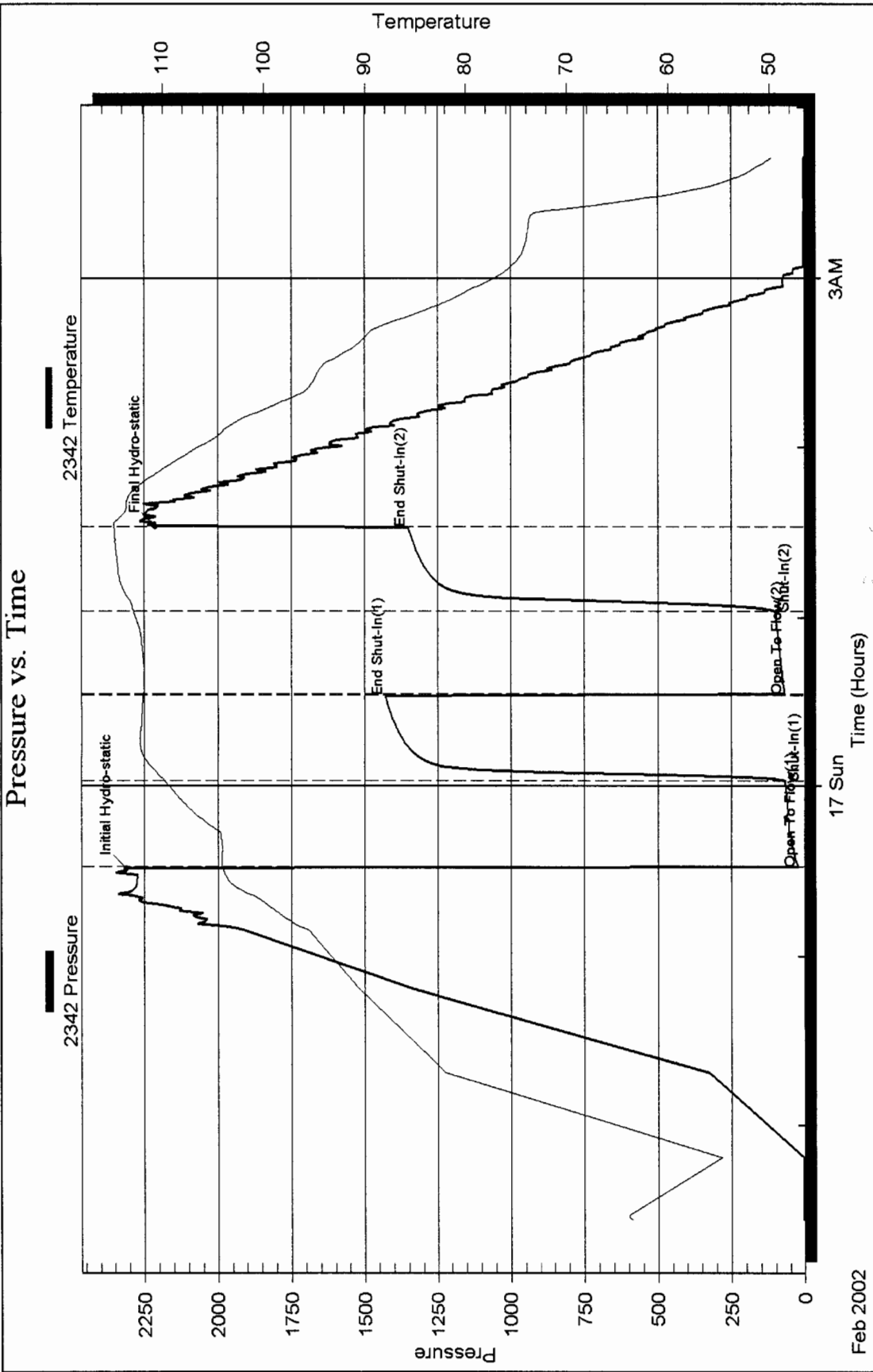
9-29s-18w-Kiowa-Ks

Roberts Resources, Inc.

Inside

Serial #: 2342

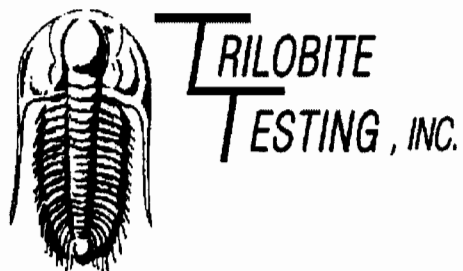
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 15759

Printed: 2002.02.22 @ 09:45:20 Page 5



DRILL STEM TEST REPORT

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

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

9-29s-18w-Kiowa-Ks

Dargel #1

Start Date: 2002.02.17 @ 21:05:57

End Date: 2002.02.18 @ 03:59:57

Job Ticket #: 15760 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.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15760

DST#: 3

Test Start: 2002.02.17 @ 21:05:57

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:15:12

Time Test Ended: 03:59:57

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4762.00 ft (KB) To 4792.00 ft (KB) (TVD)**

Total Depth: 4792.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2246.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 2342

Inside

Press@RunDepth: 812.41 psig @ 4763.00 ft (KB)

Start Date: 2002.02.17

End Date:

2002.02.18

Start Time: 21:05:58

End Time:

03:59:57

Capacity: 7000.00 psig

Last Calib.: 2002.02.18

Time On Btm: 2002.02.17 @ 23:13:42

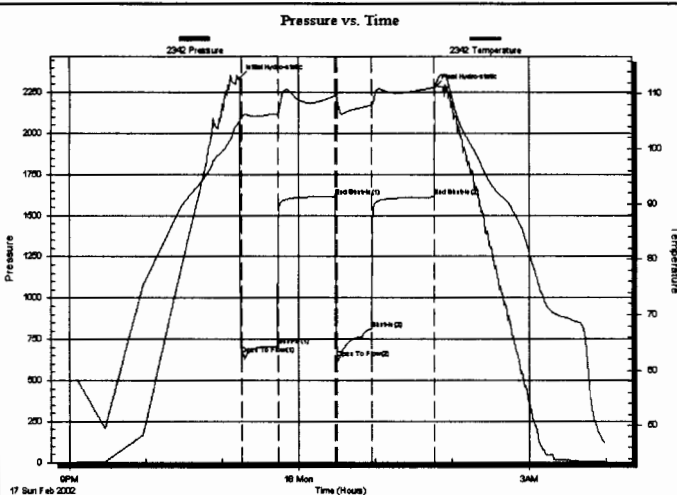
Time Off Btm: 2002.02.18 @ 01:46:12

TEST COMMENT: IF: Strong blow. GTS in 1.5 mins. (see gas volume report)

IS: Venting throughout.

FF: Strong blow. (see gas volume report) Heavy mist of mud to surface approx.

20 mins. in to FFP. turning to oil



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2336.29	105.03	Initial Hydro-static
2	659.41	105.60	Open To Flow (1)
30	712.20	106.30	Shut-In(1)
75	1615.66	109.59	End Shut-In(1)
77	634.74	108.90	Open To Flow (2)
104	812.41	107.99	Shut-In(2)
153	1611.91	111.14	End Shut-In(2)
153	2278.80	111.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Clean Oil	1.40

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	126.00	2193.03
Last Gas Rate	0.75	210.00	3505.10
Max. Gas Rate	0.75	220.00	3661.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, Inc.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15760

DST#: 3

Test Start: 2002.02.17 @ 21:05:57

Tool Information

Drill Pipe:	Length: 4760.00 ft	Diameter: 3.80 inches	Volume: 66.77 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:	58000.00 lb
			Total Volume: 66.77 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4762.00 ft			Final	48500.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4743.00	
S.I. Tool	5.00			4748.00	
HMV	5.00			4753.00	
Packer	4.00			4757.00	20.00 Bottom Of Top Packer
Packer	5.00			4762.00	
Stubb	1.00			4763.00	
Recorder	0.00	2342	Inside	4763.00	
Perforations	24.00			4787.00	
Recorder	0.00	10248	Outside	4787.00	
Bullnose	5.00			4792.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15760

DST#: 3

ATTN: Kent Roberts

Test Start: 2002.02.17 @ 21:05:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	Clean Oil	1.403

Total Length: 100.00 ft

Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp#3

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources, Inc.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15760

DST#: 3

Test Start: 2002.02.17 @ 21:05:57

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	5	0.75	126.00	2193.03
1	5	0.75	126.00	2193.03
1	10	0.75	205.00	3427.00
1	20	0.75	220.00	3661.29
1	30	0.75	220.00	3661.29
2	10	0.75	195.00	3270.80
2	20	0.75	210.00	3505.10

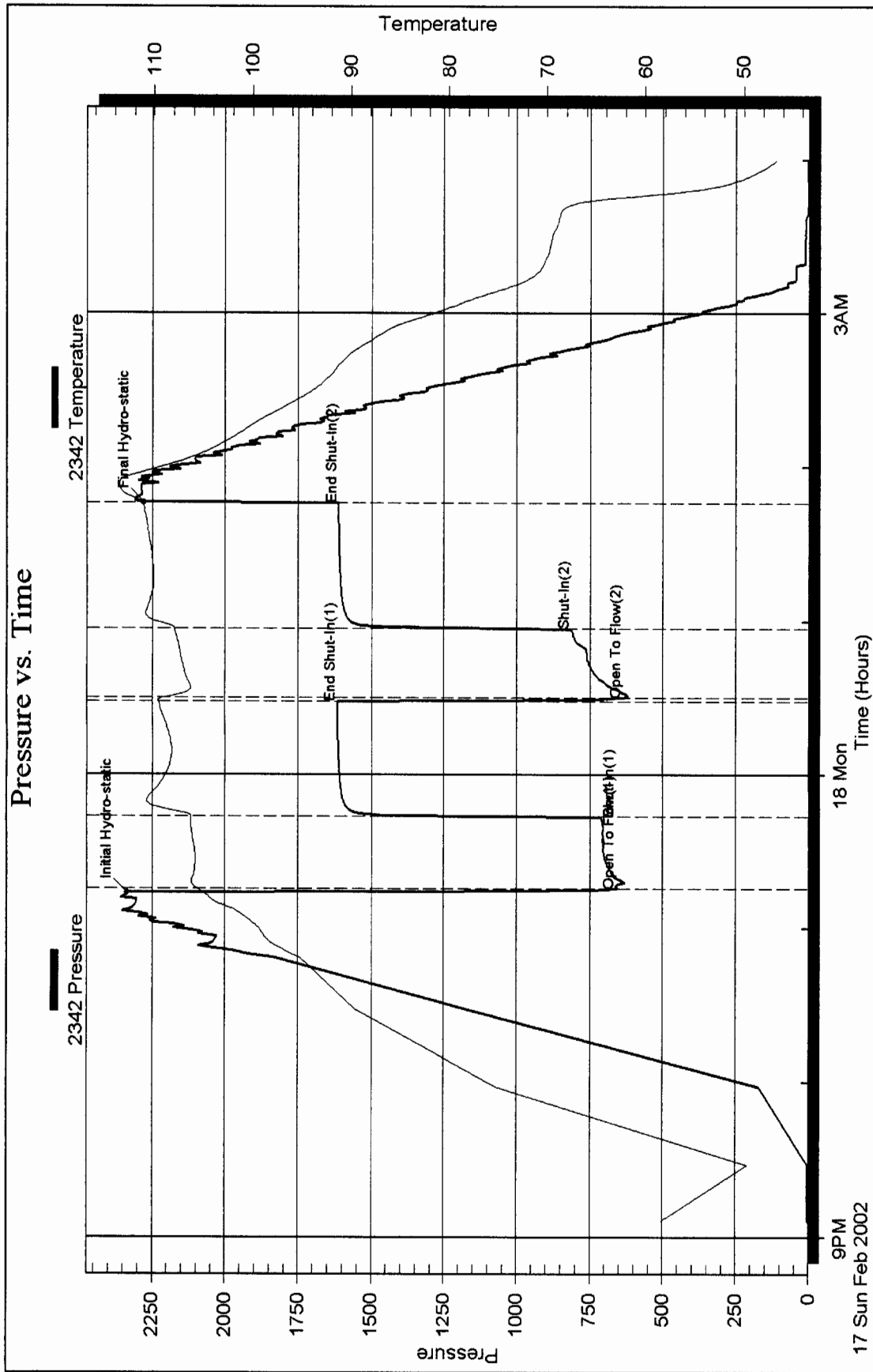
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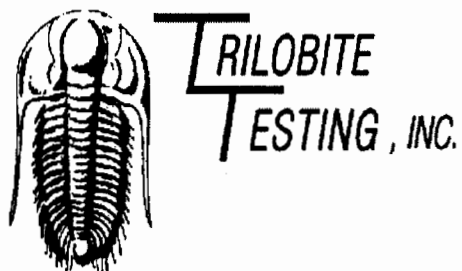
Inside

Roberts Resources, Inc.

9-29s-18w-Kow a-Ks

DST Test Number: 3





DRILL STEM TEST REPORT

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

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

9-29s-18w-Kiowa-Ks

Dargel #1

Start Date: 2002.02.18 @ 20:05:36

End Date: 2002.02.19 @ 03:09:51

Job Ticket #: 15761 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.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15761

DST#: 4

Test Start: 2002.02.18 @ 20:05:36

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:10:21

Time Test Ended: 03:09:51

Test Type: Conventional Bottom Hole

Tester: Gary Pavoteaux

Unit No: 23

Interval: **4808.00 ft (KB) To 4850.00 ft (KB) (TVD)**

Total Depth: 4850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2246.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 2342

Inside

Press@RunDepth: 22.90 psig @ 4809.00 ft (KB)

Start Date: 2002.02.18

End Date:

2002.02.19

Start Time: 20:05:37

End Time:

03:09:51

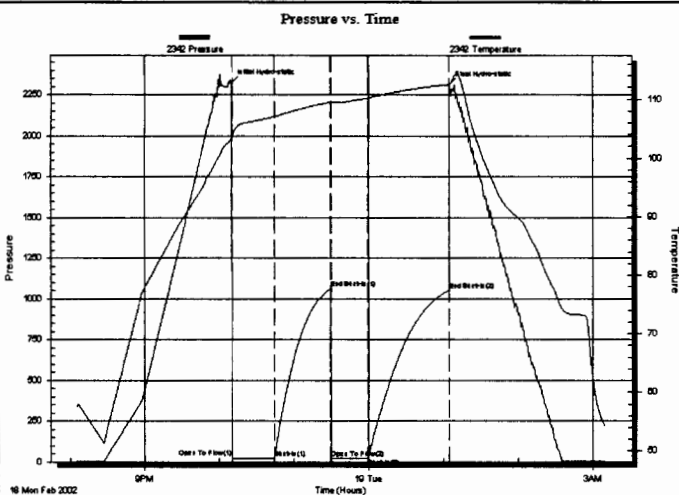
Capacity: 7000.00 psig

Last Calib.: 2002.02.19

Time On Btm: 2002.02.18 @ 22:09:51

Time Off Btm: 2002.02.19 @ 01:04:36

TEST COMMENT: IF: Strong blow . B.O.B. in 5.5 mins.
IS: No blow .
FF: Strong blow . B.O.B. immediately.
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2324.04	103.37	Initial Hydro-static
1	25.42	103.64	Open To Flow (1)
35	20.47	107.03	Shut-In (1)
80	1061.01	109.46	End Shut-In (1)
81	24.16	109.46	Open To Flow (2)
110	22.90	110.18	Shut-In (2)
175	1052.45	112.50	End Shut-In (2)
175	2307.59	112.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drig.mud	0.35
0.00	2800 ft. of gas in pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, Inc.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15761

DST#: 4

Test Start: 2002.02.18 @ 20:05:36

Tool Information

Drill Pipe:	Length: 4792.00 ft	Diameter: 3.80 inches	Volume: 67.22 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: 76000.00 lb
			Total Volume: 67.22 bbl	Tool Chased 5.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4808.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
Slid tool 4-6 ft. to btm.				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4789.00	
S.I. Tool	5.00			4794.00	
HMV	5.00			4799.00	
Packer	4.00			4803.00	20.00 Bottom Of Top Packer
Packer	5.00			4808.00	
Stubb	1.00			4809.00	
Recorder	0.00	2342	Inside	4809.00	
Perforations	5.00			4814.00	
C.O. Sub	1.00			4815.00	
Blank Spacing	29.00			4844.00	
C.O. Sub	1.00			4845.00	
Recorder	0.00	10248	Outside	4845.00	
Bullnose	5.00			4850.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15761

DST#: 4

ATTN: Kent Roberts

Test Start: 2002.02.18 @ 20:05:36

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:

7000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drlg.mud	0.351
0.00	2800 ft. of gas in pipe	0.000

Total Length: 25.00 ft

Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

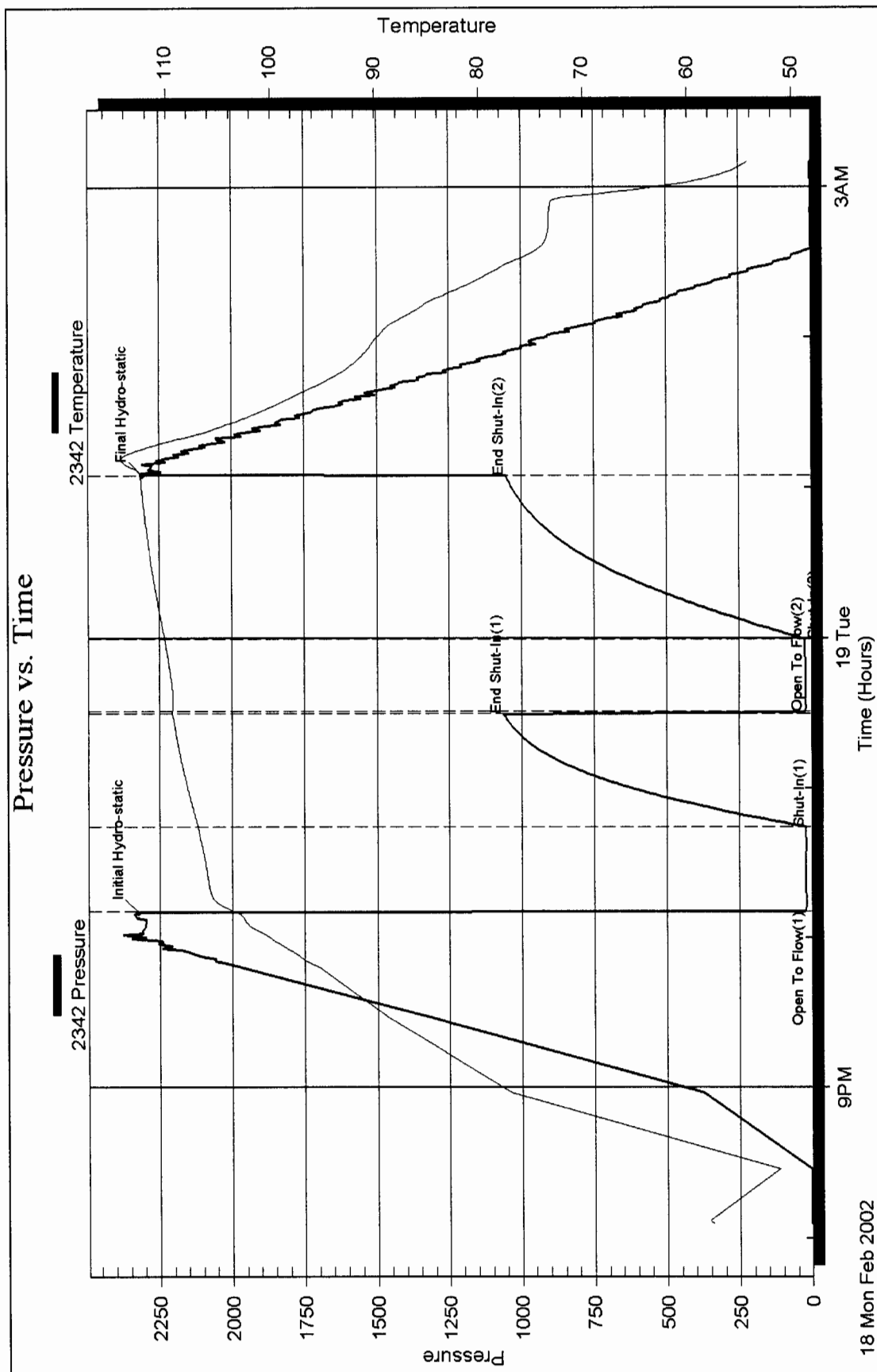
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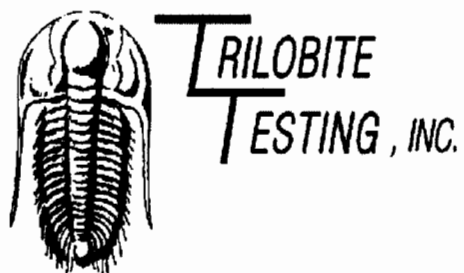
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

9-29s-18w-Kiowa-Ks

Dargel #1

Start Date: 2002.02.19 @ 18:24:53

End Date: 2002.02.20 @ 01:40:23

Job Ticket #: 15762

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.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15762

DST#: 5

Test Start: 2002.02.19 @ 18:24:53

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:53:23

Time Test Ended: 01:40:23

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4906.00 ft (KB) To 4929.00 ft (KB) (TVD)**

Total Depth: 4929.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2246.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 2342

Inside

Press@RunDepth: 29.28 psig @ 4907.00 ft (KB)

Start Date: 2002.02.19

End Date:

2002.02.20

Capacity: 7000.00 psig

Last Calib.: 2002.02.21

Start Time: 18:24:54

End Time:

01:40:23

Time On Btm: 2002.02.19 @ 20:52:23

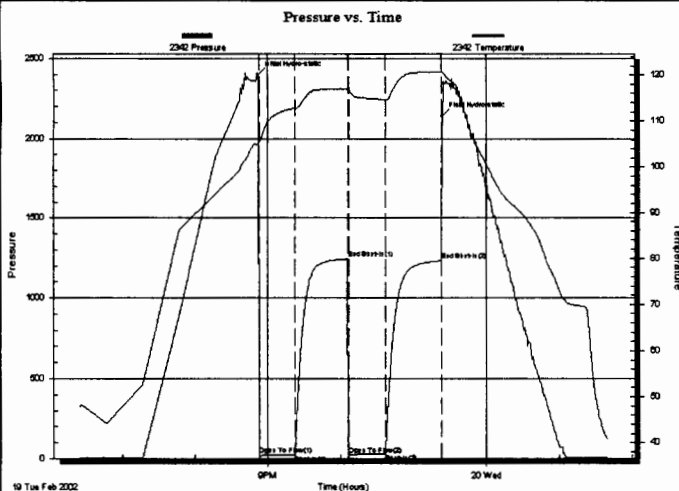
Time Off Btm: 2002.02.19 @ 23:23:38

TEST COMMENT: IF: Strong blow. B.O.B. in 3 mins. GTS in 29 mins.

IS: No blow.

FF: Strong blow. (see gas volume report)

FS: No blow.



PRESSURE SUMMARY

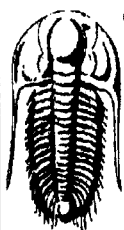
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2397.81	105.24	Initial Hydro-static
1	20.47	105.51	Open To Flow (1)
30	22.90	112.80	Shut-In(1)
74	1243.47	117.03	End Shut-In(1)
75	23.41	116.89	Open To Flow (2)
105	29.28	114.59	Shut-In(2)
151	1232.72	120.64	End Shut-In(2)
152	2140.07	120.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drig.mud	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	5.00	30.78



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, Inc.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15762

DST#: 5

Test Start: 2002.02.19 @ 18:24:53

Tool Information

Drill Pipe:	Length: 4914.00 ft	Diameter: 3.80 inches	Volume: 68.93 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: 64000.00 lb
			Total Volume: 68.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4906.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4887.00	
S.I. Tool	5.00			4892.00	
HMV	5.00			4897.00	
Packer	4.00			4901.00	20.00 Bottom Of Top Packer
Packer	5.00			4906.00	
Stubb	1.00			4907.00	
Recorder	0.00	2342	Inside	4907.00	
Perforations	17.00			4924.00	
Recorder	0.00	10248	Outside	4924.00	
Bullnose	5.00			4929.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15762

DST#: 5

ATTN: Kent Roberts

Test Start: 2002.02.19 @ 18:24:53

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:

7000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Drig.mud	0.631

Total Length: 45.00 ft

Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15762

DST#: 5

ATTN: Kent Roberts

Test Start: 2002.02.19 @ 18:24:53

Gas Rates Information

Temperature: 59 deg C

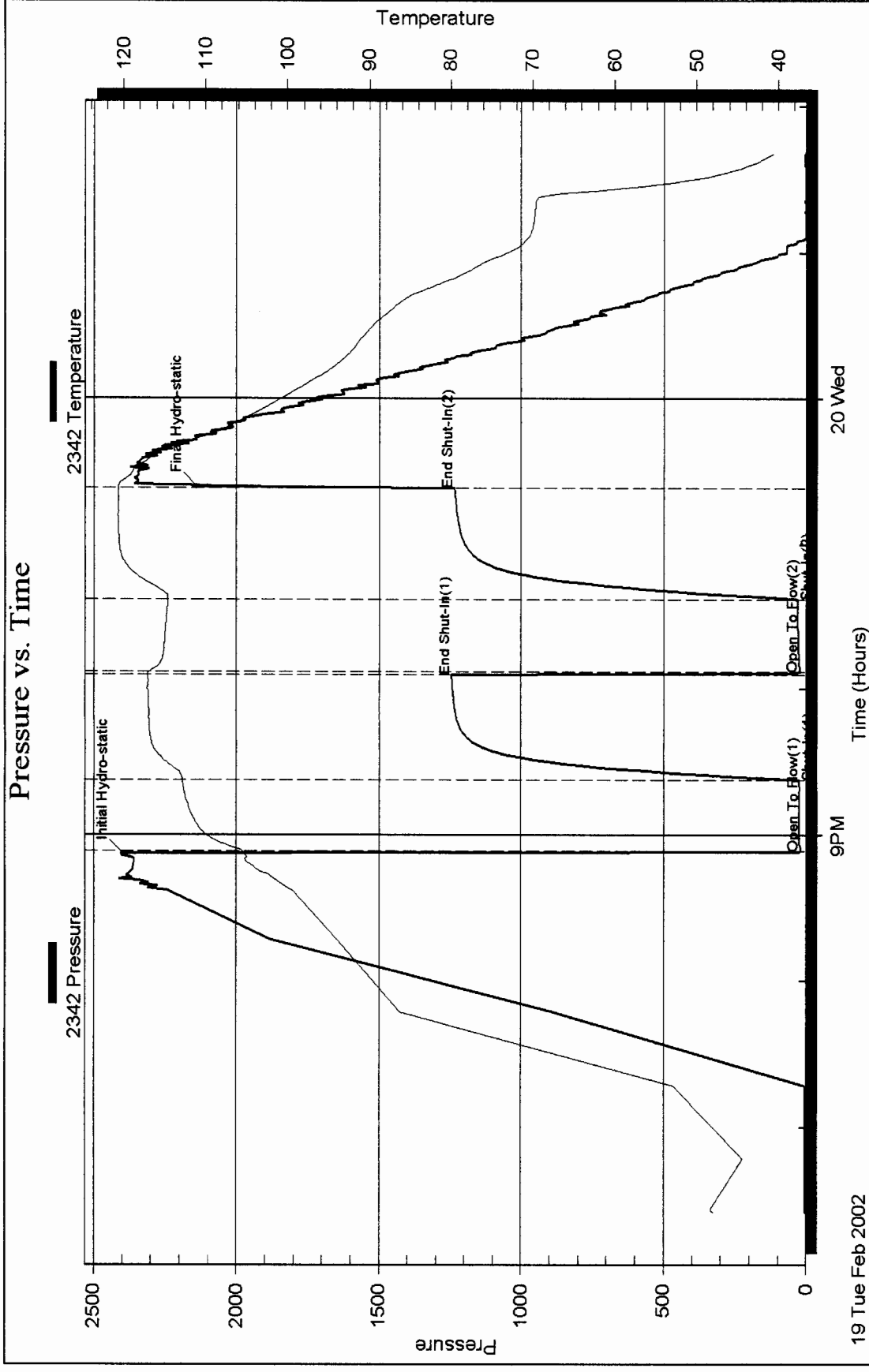
Relative Density: 0.65

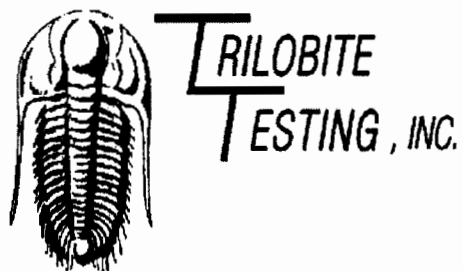
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	10	0.25	5.00	30.78
2	10	0.25	5.00	30.78
2	10	0.25	5.00	30.78

Pressure vs. Time





DRILL STEM TEST REPORT

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

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

9-29s-18w-Kiowa-Ks

Dargel #1

Start Date: 2002.02.20 @ 10:23:25

End Date: 2002.02.20 @ 17:21:55

Job Ticket #: 15763

DST #: 6

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.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15763

DST#: 6

Test Start: 2002.02.20 @ 10:23:25

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:30:10

Time Test Ended: 17:21:55

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4905.00 ft (KB) To 4937.00 ft (KB) (TVD)**

Total Depth: 4937.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2246.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 2342

Inside

Press@RunDepth: 78.30 psig @ 4906.00 ft (KB)

Start Date: 2002.02.20

End Date:

2002.02.20

Start Time: 10:23:26

End Time:

17:21:55

Capacity: 7000.00 psig

Last Calib.: 2002.02.20

Time On Btm: 2002.02.20 @ 12:28:55

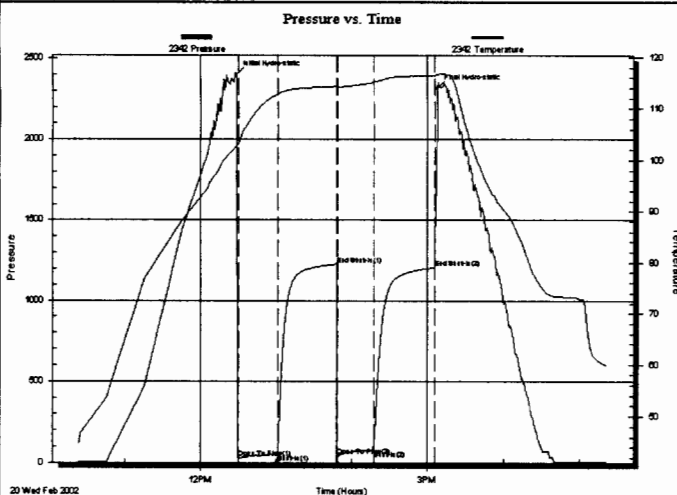
Time Off Btm: 2002.02.20 @ 15:07:25

TEST COMMENT: IF: Strong blow . B.O.B. in 20 secs. GTS in 25 mins.

IS: No blow .

FF: Strong blow . (see gas volume report)

FSI: Weak blow . 1/4" or less.



PRESSURE SUMMARY

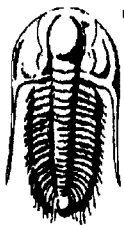
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2399.99	102.76	Initial Hydro-static
2	30.04	102.98	Open To Flow (1)
33	52.36	112.83	Shut-In(1)
79	1225.76	114.31	End Shut-In(1)
80	39.86	114.26	Open To Flow (2)
109	78.30	115.20	Shut-In(2)
157	1206.03	116.53	End Shut-In(2)
159	2316.32	116.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GCWM 5%g 15%w 80%r Rw .45 ohms	0.84
0.00	@ 59 deg.F.	0.00
75.00	GCM 10%g	1.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	5.00	30.78



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources, Inc.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15763

DST#: 6

Test Start: 2002.02.20 @ 10:23:25

Tool Information

Drill Pipe:	Length: 4913.00 ft	Diameter: 3.80 inches	Volume: 68.92 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: 78000.00 lb
			Total Volume: 68.92 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4905.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 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			4886.00	
S.I. Tool	5.00			4891.00	
HMV	5.00			4896.00	
Packer	4.00			4900.00	20.00 Bottom Of Top Packer
Packer	5.00			4905.00	
Stubb	1.00			4906.00	
Recorder	0.00	2342	Inside	4906.00	
Perforations	26.00			4932.00	
Recorder	0.00	10248	Outside	4932.00	
Bullnose	5.00			4937.00	32.00 Bottom Packers & Anchor
Total Tool Length:		52.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15763

DST#: 6

ATTN: Kent Roberts

Test Start: 2002.02.20 @ 10:23:25

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:

18000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GCWM 5%g 15%w 80%m Rw .45 ohms	0.842
0.00	@ 59 deg.F.	0.000
75.00	GCM 10%g	1.052

Total Length: 135.00 ft

Total Volume: 1.894 bbl

Num Fluid Samples: 0

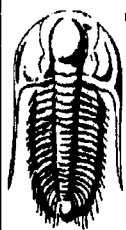
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources, Inc.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15763

DST#: 6

Test Start: 2002.02.20 @ 10:23:25

Gas Rates Information

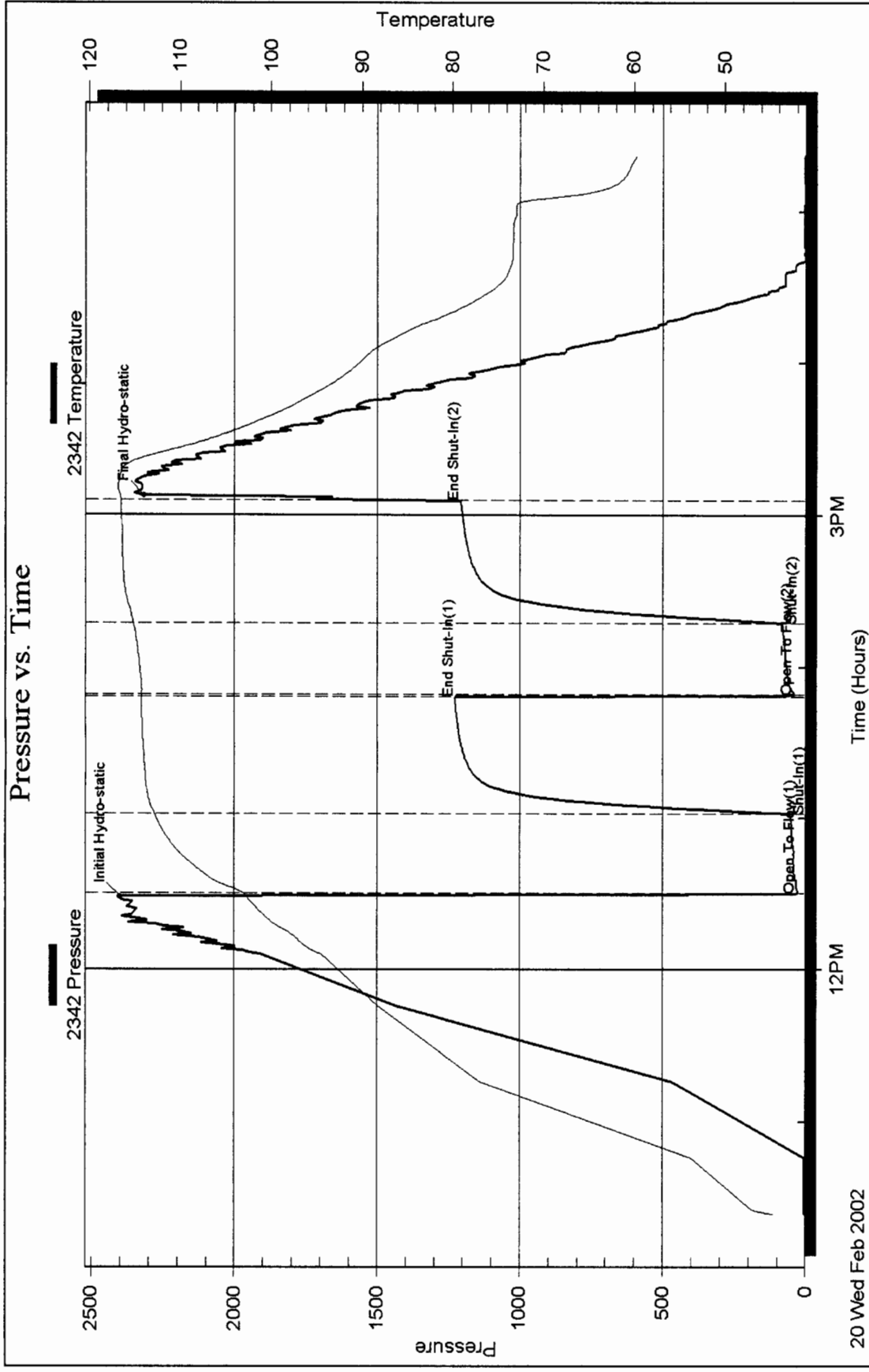
Temperature: 59 deg C

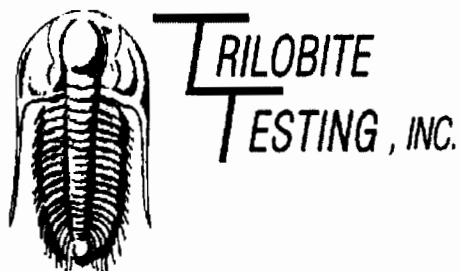
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	5.00	30.78
2	10	0.25	5.00	30.78
2	20	0.25	5.00	30.78





DRILL STEM TEST REPORT

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

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

9-29s-18w-Kiowa-Ks

Dargel #1

Start Date: 2002.02.21 @ 01:20:19

End Date: 2002.02.21 @ 10:29:19

Job Ticket #: 15764 DST #: 7

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.

520 S. Holland, Ste 207
Wichita, KS 67209

ATTN: Kent Roberts

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15764

DST#: 7

Test Start: 2002.02.21 @ 01:20:19

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:07:04

Time Test Ended: 10:29:19

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4950.00 ft (KB) To 4963.00 ft (KB) (TVD)**

Total Depth: 4963.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2246.00 ft (KB)

2237.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 2342

Inside

Press@RunDepth: 923.20 psig @ 4951.00 ft (KB)

Start Date: 2002.02.21

End Date:

2002.02.21

Capacity: 7000.00 psig

Last Calib.: 2002.02.21

Start Time: 01:20:20

End Time:

10:29:19

Time On Btm: 2002.02.21 @ 03:06:49

Time Off Btm: 2002.02.21 @ 06:53:49

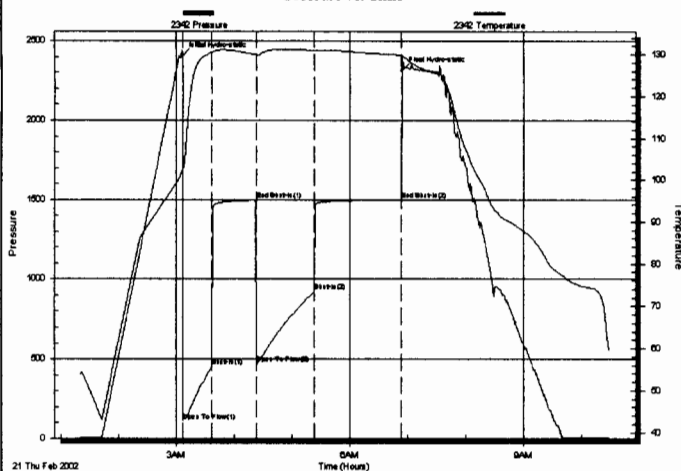
TEST COMMENT: IF: Strong blow . B.O.B. in 1.5 mins.

IS: Fair to strong blow . B.O.B.

FF: B.O.B. in 3 mins.

FSI: Weak blow . 1 - 4".

Pressure vs. Time



21 Thu Feb 2002

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2408.30	102.54	Initial Hydro-static
1	110.94	102.66	Open To Flow (1)
30	454.04	130.48	Shut-In (1)
76	1496.36	129.92	End Shut-In (1)
77	472.67	129.90	Open To Flow (2)
137	923.20	130.97	Shut-In (2)
227	1499.61	129.85	End Shut-In (2)
227	2314.39	129.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1980.00	Salt water w with o specs. Rw .094 ohms	27.77
0.00	58 deg. F	0.00
30.00	OCMW 6%o 14% m 80% w	0.42
0.00	620 ft. of gas in pipe	0.00

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

Dargel #1

9-29s-18w-Kiowa-Ks

Job Ticket: 15764

DST#: 7

Test Start: 2002.02.21 @ 01:20:19

Tool Information

Drill Pipe:	Length: 4945.00 ft	Diameter: 3.80 inches	Volume: 69.37 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: 64000.00 lb
			<u>Total Volume: 69.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4950.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4931.00	
S.I. Tool	5.00			4936.00	
HMV	5.00			4941.00	
Packer	4.00			4945.00	20.00 Bottom Of Top Packer
Packer	5.00			4950.00	
Stubb	1.00			4951.00	
Recorder	0.00	2342	Inside	4951.00	
Perforations	7.00			4958.00	
Recorder	0.00	10248	Outside	4958.00	
Bullnose	5.00			4963.00	13.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources, Inc.

Dargel #1

520 S. Holland, Ste 207
Wichita, KS 67209

9-29s-18w-Kiowa-Ks

Job Ticket: 15764

DST#: 7

ATTN: Kent Roberts

Test Start: 2002.02.21 @ 01:20:19

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:

104000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1980.00	Salt water with o specs. Rw .094 ohms @	27.774
0.00	58 deg. F	0.000
30.00	OCMW 6%o 14%m 80%w	0.421
0.00	620 ft. of gas in pipe	0.000

Total Length: 2010.00 ft

Total Volume: 28.195 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

