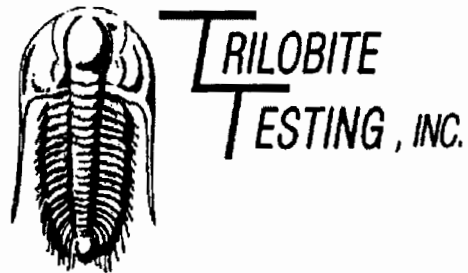


15-195-22264

9-14s-21w



DRILL STEM TEST REPORT

Prepared For: **R P Nixon Oper Inc**

207 West 12th St
Hays Ks 67601-3898

ATTN: Dan Nixon

9-14s-21w Trego

Pfeifer G Unit#1

Start Date: 2004.11.13 @ 14:28:48

End Date: 2004.11.13 @ 20:04:17

Job Ticket #: 20893 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

R P Nixon Oper Inc
207 West 12th St
Hays Ks 67601-3898
ATTN: Dan Nixon

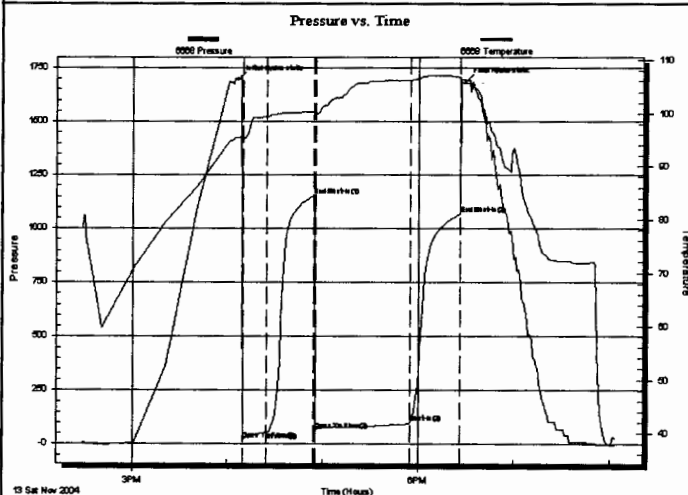
Pfeifer G Unit#1
9-14s-21w Trego
Job Ticket: 20893 **DST#: 1**
Test Start: 2004.11.13 @ 14:28:48

GENERAL INFORMATION:

Formation: LKC
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:09:47
Time Test Ended: 20:04:17
Interval: 3603.00 ft (KB) To 3661.00 ft (KB) (TVD)
Total Depth: 3661.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 28
Reference Elevations: 2250.00 ft (KB)
2245.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6668 Inside
Press@RunDepth: 98.30 psig @ 3607.01 ft (KB)
Start Date: 2004.11.13 End Date: 2004.11.13
Start Time: 14:28:48 End Time: 20:04:17
Capacity: 7000.00 psig
Last Calib.: 2004.11.13
Time On Btm: 2004.11.13 @ 16:06:47
Time Off Btm: 2004.11.13 @ 18:29:17

TEST COMMENT: FFP-wk bl thru-out 1/2" to 2"bl ISIP-no bl
FFP-wk bl to a gd bl 1"to 6"bl ,FSIP-1/4"bl bk
Times 15-30-60-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1697.07	95.52	Initial Hydro-static
3	19.25	95.28	Open To Flow (1)
18	55.18	99.35	Shut-In(1)
48	1151.80	100.32	End Shut-In(1)
49	64.66	99.96	Open To Flow (2)
108	98.30	106.27	Shut-In(2)
139	1068.61	106.88	End Shut-In(2)
143	1688.08	105.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MGO 5%gas 75%oil 20%mud	1.74
62.00	MGO 5%gas 55%oil 40%mud	0.87
0.00	124' GP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

RPNixon Oper Inc

Pfeifer G Unit#1

207 West 12th St
Hays Ks 67601-3898

9-14s-21w Trego

Job Ticket: 20893

DST#: 1

ATTN: Dan Nixon

Test Start: 2004.11.13 @ 14:28:48

Tool Information

Drill Pipe:	Length: 3603.00 ft	Diameter: 3.80 inches	Volume: 50.54 bbl	Tool Weight:	2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb	
			Total Volume:	50.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	48000.00 lb	
Depth to Top Packer:	3603.00 ft			Final	48000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	58.02 ft					
Tool Length:	79.02 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			3583.00	
Shut In Tool	5.00			3588.00	
Hydraulic tool	5.00			3593.00	
Packer	5.00			3598.00	21.00 Bottom Of Top Packer
Packer	5.00			3603.00	
Stubb	1.00			3604.00	
Perforations	3.00			3607.00	
Recorder	0.01	6668	Inside	3607.01	
Blank Spacing	31.00			3638.01	
Recorder	0.01	13534	Outside	3638.02	
Perforations	20.00			3658.02	
Bullnose	3.00			3661.02	58.02 Bottom Packers & Anchor
Total Tool Length:		79.02			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

R P Nixon Oper Inc

Pfeifer G Unit#1

207 West 12th St
Hays Ks 67601-3898

9-14s-21w Trego

Job Ticket: 20893

DST#: 1

ATTN: Dan Nixon

Test Start: 2004.11.13 @ 14:28:48

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.33 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MGO 5%gas 75%oil 20%mud	1.739
62.00	MGO 5%gas 55%oil 40%mud	0.870
0.00	124' GIP	0.000

Total Length: 186.00 ft

Total Volume: 2.609 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

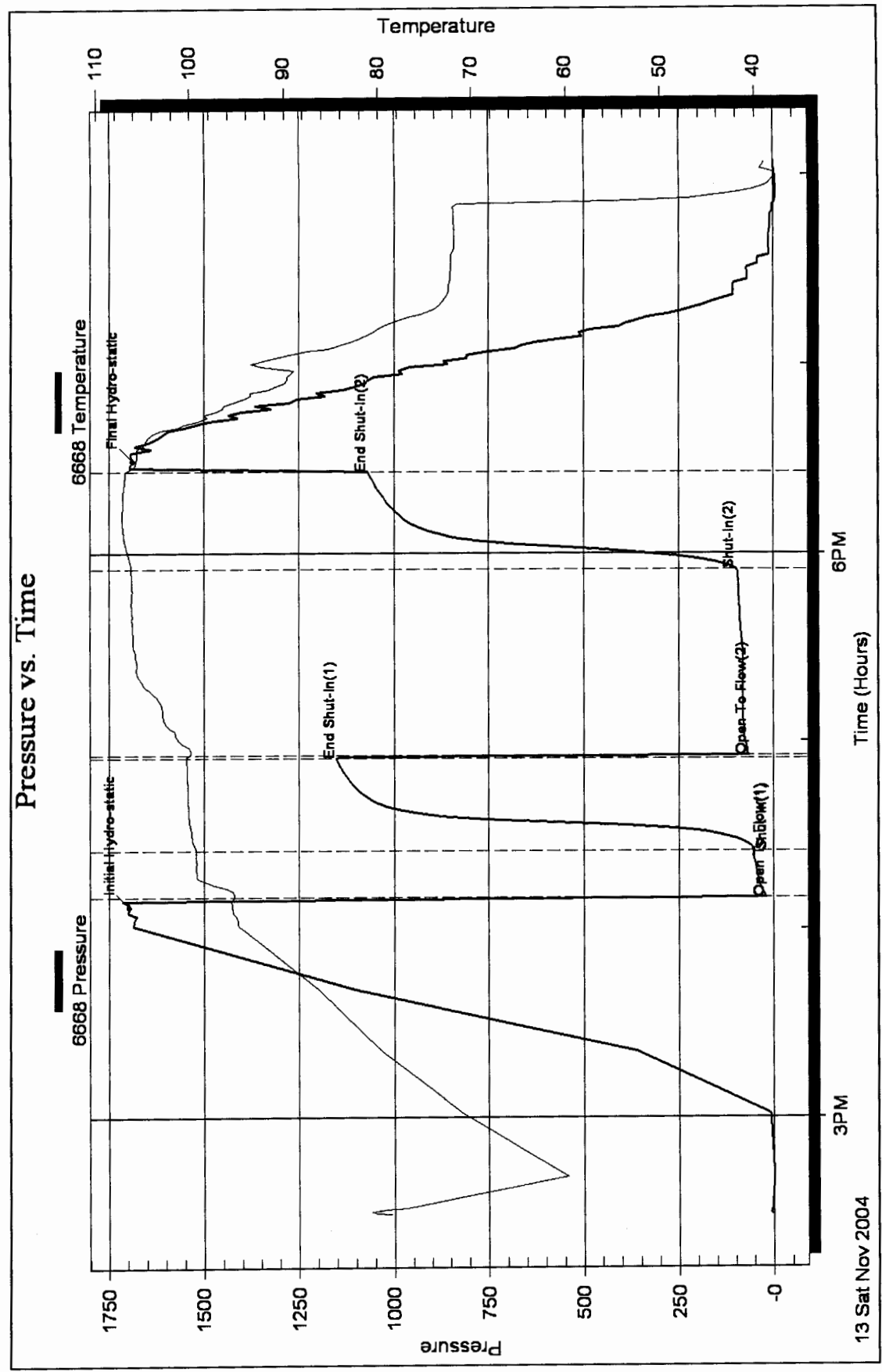
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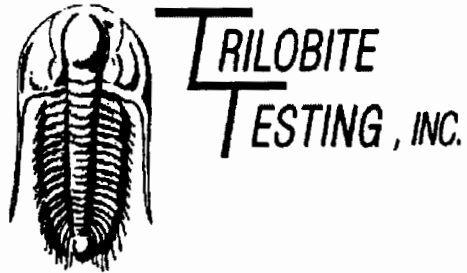
Inside

RPNixon Oper Inc

9-14s-21w Trego

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **R P Nixon Oper Inc**

207 West 12th St
Hays Ks 67601-3898

ATTN: Dan Nixon

9-14s-21w Trego

Pfeifer G Unit#1

Start Date: 2004.11.14 @ 05:40:24

End Date: 2004.11.14 @ 10:55:23

Job Ticket #: 20894

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

R P Nixon Oper Inc
207 West 12th St
Hays Ks 67601-3898
ATTN: Dan Nixon

Pfeifer G Unit#1

9-14s-21w Trego

Job Ticket: 20894

DST#: 2

Test Start: 2004.11.14 @ 05:40:24

GENERAL INFORMATION:

Formation: LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:24:23

Time Test Ended: 10:55:23

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: 3680.00 ft (KB) To 3730.00 ft (KB) (TVD)

Total Depth: 3730.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2250.00 ft (KB)

2245.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 39.07 psig @ 3682.01 ft (KB)

Start Date: 2004.11.14

End Date:

2004.11.14

Start Time: 05:40:24

End Time:

10:55:23

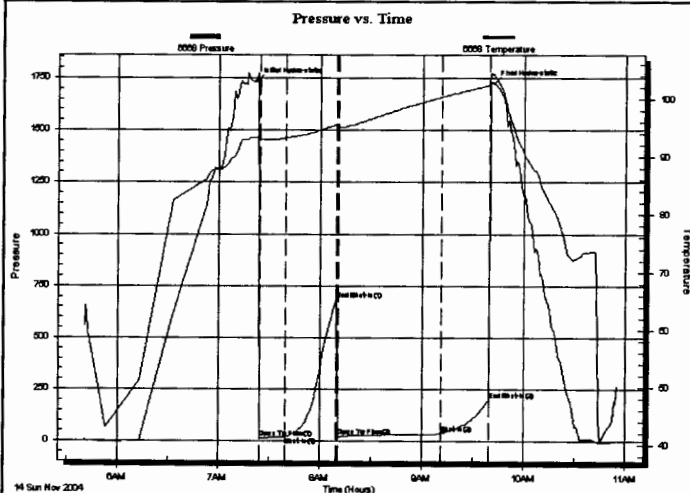
Capacity: 7000.00 psig

Last Calib.: 2004.11.14

Time On Btm: 2004.11.14 @ 07:21:53

Time Off Btm: 2004.11.14 @ 09:41:53

TEST COMMENT: FFP-w k bl thru-out 1/4" bl
FFP-w k bl thru-out 1/4"bl
Times 15-30-60-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.92	93.27	Initial Hydro-static
3	15.17	93.10	Open To Flow (1)
18	22.32	93.29	Shut-In(1)
48	686.41	95.60	End Shut-In(1)
49	22.61	95.17	Open To Flow (2)
110	39.07	100.35	Shut-In(2)
138	199.64	102.43	End Shut-In(2)
140	1722.34	104.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 15%oil 85%mud	0.21
0.00	60'GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

RPNixon Oper Inc

Pfeifer G Unit#1

207 West 12th St
Hays Ks 67601-3898

9-14s-21w Trego

Job Ticket: 20894

DST#: 2

ATTN: Dan Nixon

Test Start: 2004.11.14 @ 05:40:24

Tool Information

Drill Pipe:	Length: 3665.00 ft	Diameter: 3.80 inches	Volume: 51.41 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	51.41 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3680.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.02 ft			
Tool Length:	71.02 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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Change Over Sub	1.00			3660.00	
Shut In Tool	5.00			3665.00	
Hydraulic tool	5.00			3670.00	
Packer	5.00			3675.00	21.00 Bottom Of Top Packer
Packer	5.00			3680.00	
Stubb	1.00			3681.00	
Perforations	1.00			3682.00	
Recorder	0.01	6668	Inside	3682.01	
Blank Spacing	32.00			3714.01	
Recorder	0.01	13534	Outside	3714.02	
Perforations	13.00			3727.02	
Bullnose	3.00			3730.02	50.02 Bottom Packers & Anchor

Total Tool Length: 71.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

R P Nixon Oper Inc

Pfeifer G Unit#1

207 West 12th St
Hays Ks 67601-3898

9-14s-21w Trego

Job Ticket: 20894

DST#: 2

ATTN: Dan Nixon

Test Start: 2004.11.14 @ 05:40:24

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.31 in³

Resistivity: ohm.m

Salinity: 4000.00 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:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	HOCM 15%oil 85%mud	0.210
0.00	60"GIP	0.000

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:

Serial #: 6668

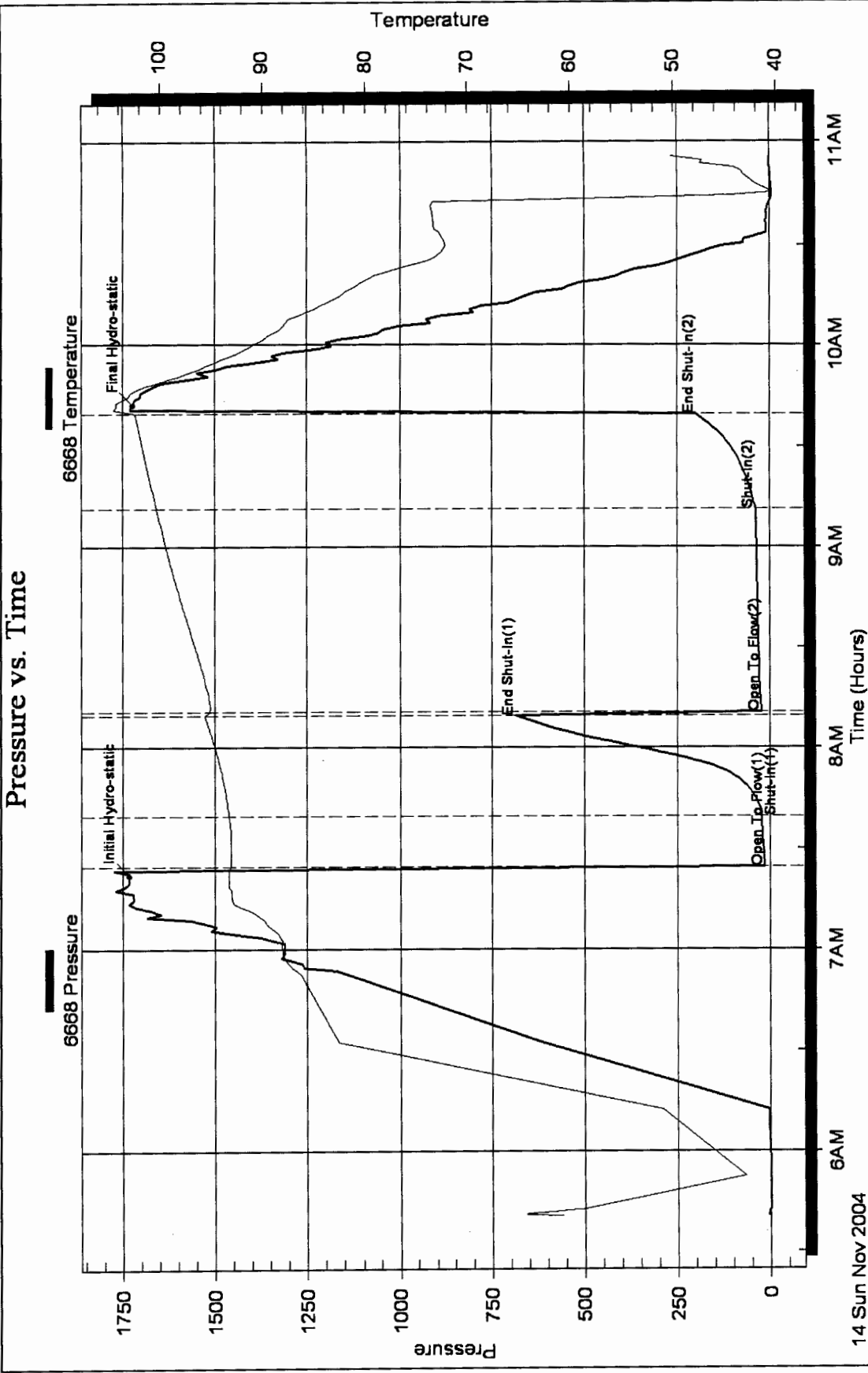
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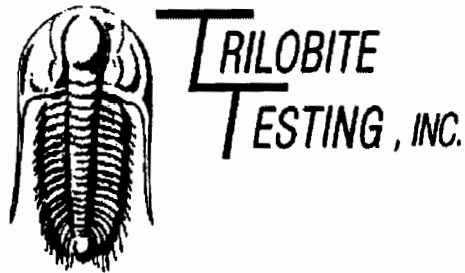
RPNixon Oper Inc

9-14s-21w Trego

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **R P Nixon Oper Inc**

207 West 12th St
Hays Ks 67601-3898

ATTN: Dan Nixon

9-14s-21w Trego

Pfeifer G Unit#1

Start Date: 2004.11.15 @ 16:23:32

End Date: 2004.11.15 @ 22:05:31

Job Ticket #: 20895 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

RPNixon Oper Inc
207 West 12th St
Hays Ks 67601-3898
ATTN: Dan Nixon

Pfeifer G Unit#1
9-14s-21w Trego
Job Ticket: 20895 **DST#: 3**
Test Start: 2004.11.15 @ 16:23:32

GENERAL INFORMATION:

Formation: **Cher**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 18:05:31
Time Test Ended: 22:05:31

Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **28**

Interval: **3998.00 ft (KB) To 4040.00 ft (KB) (TVD)**
Total Depth: **4040.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2250.00 ft (KB)**
2245.00 ft (CF)
KB to GR/CF: **5.00 ft**

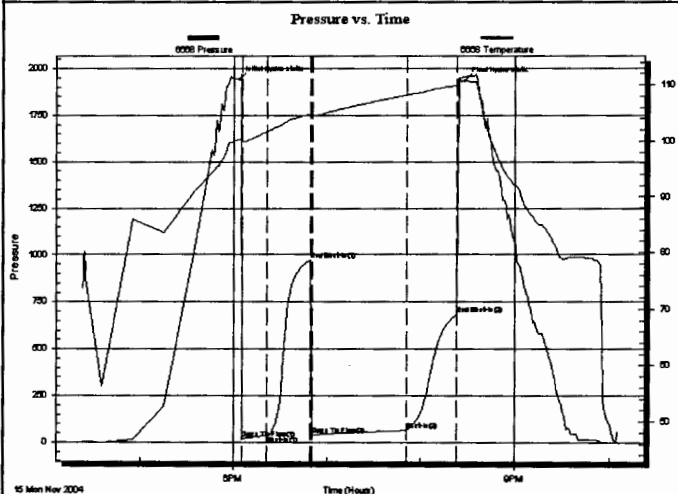
Serial #: 6668

Inside

Press@RunDepth: **64.79 psig @ 4009.01 ft (KB)**
Start Date: **2004.11.15** End Date: **2004.11.15**
Start Time: **16:23:32** End Time: **22:05:31**

Capacity: **7000.00 psig**
Last Calib.: **2004.11.15**
Time On Btm: **2004.11.15 @ 18:03:01**
Time Off Btm: **2004.11.15 @ 20:28:01**

TEST COMMENT: **FP-wk bl thru-out 1/4"bl**
FFP-wk bl thru-out 1"to 1 1/4"bl
Times 15-30-60-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.20	100.28	Initial Hydro-static
3	18.88	100.00	Open To Flow (1)
18	35.37	101.69	Shut-In(1)
46	973.30	104.85	End Shut-In(1)
47	38.62	104.63	Open To Flow (2)
108	64.79	108.21	Shut-In(2)
140	684.67	109.90	End Shut-In(2)
145	1932.01	111.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	clean oil	0.28
75.00	MGO 10%gas 50%oil 40%mud	1.05
0.00	60'GP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

R P Nixon Oper Inc
207 West 12th St
Hays Ks 67601-3898

ATTN: Dan Nixon

Pfeifer G Unit#1
9-14s-21w Trego
Job Ticket: 20895 **DST#: 3**
Test Start: 2004.11.15 @ 16:23:32

Tool Information

Drill Pipe:	Length: 4001.00 ft	Diameter: 3.80 inches	Volume: 56.12 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 56.12 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3998.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.02 ft			
Tool Length:	63.02 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			3978.00	
Shut In Tool	5.00			3983.00	
Hydraulic tool	5.00			3988.00	
Packer	5.00			3993.00	21.00 Bottom Of Top Packer
Packer	5.00			3998.00	
Stubb	1.00			3999.00	
Perforations	10.00			4009.00	
Recorder	0.01	6668	Inside	4009.01	
Perforations	28.00			4037.01	
Recorder	0.01	13534	Outside	4037.02	
Bullnose	3.00			4040.02	42.02 Bottom Packers & Anchor

Total Tool Length: 63.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

R P Nixon Oper Inc

Pfeifer G Unit#1

207 West 12th St
Hays Ks 67601-3898

9-14s-21w Trego

Job Ticket: 20895

DST#: 3

ATTN: Dan Nixon

Test Start: 2004.11.15 @ 16:23:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	clean oil	0.281
75.00	MGO 10%gas 50%oil 40%mud	1.052
0.00	60'GIP	0.000

Total Length: 95.00 ft

Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

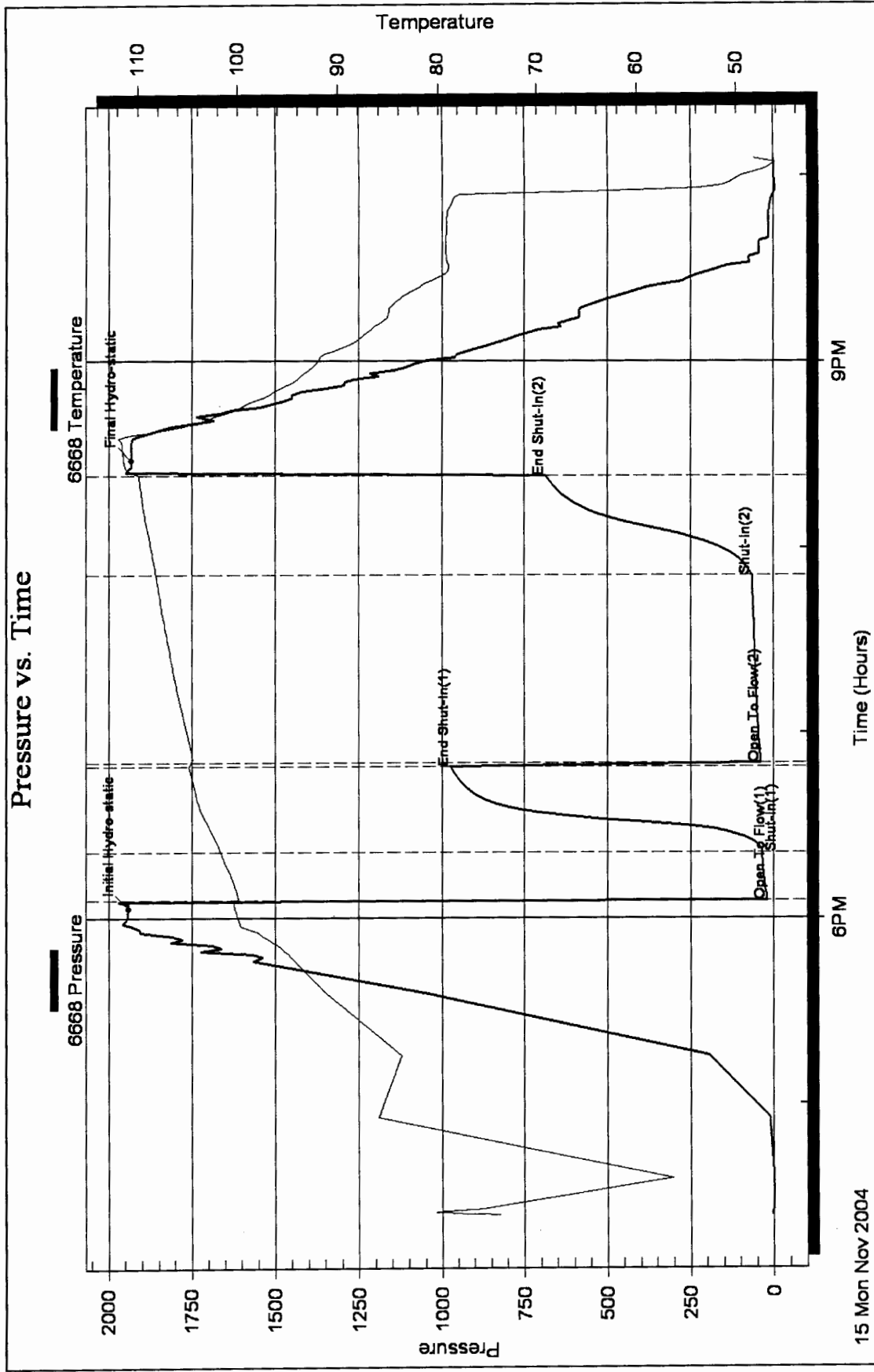
Serial #: 6668

Inside

R P Nixon Oper Inc

9-14s-21w Trego

DST Test Number: 3

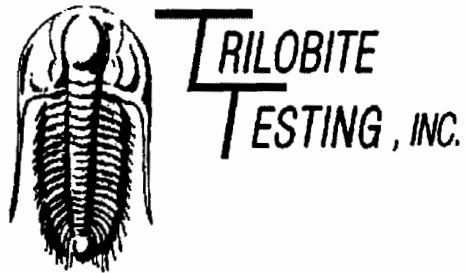


15 Mon Nov 2004

Trilobite Testing, Inc

Ref. No: 20895

Printed: 2004.11.16 @ 14:15:11 Page 5



DRILL STEM TEST REPORT

Prepared For: **R P Nixon Oper Inc**

207 West 12th St
Hays Ks 67601-3898

ATTN: Dan Nixon

9-14s-21w Trego

Pfeifer G Unit#1

Start Date: 2004.11.16 @ 04:52:03

End Date: 2004.11.16 @ 10:10:32

Job Ticket #: 20896 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

RPNixon Oper Inc

207 West 12th St
Hays Ks 67601-3898

ATTN: Dan Nixon

Pfeifer G Unit#1

9-14s-21w Trego

Job Ticket: 20896

DST#: 4

Test Start: 2004.11.16 @ 04:52:03

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 06:16:32

Time Test Ended: 10:10:32

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3998.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Total Depth: **4050.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2250.00 ft (KB)**

2245.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: **120.32 psig @ 4000.01 ft (KB)**

Start Date: **2004.11.16**

End Date:

2004.11.16

Capacity: **7000.00 psig**

Last Calib.: **2004.11.16**

Start Time: **04:52:03**

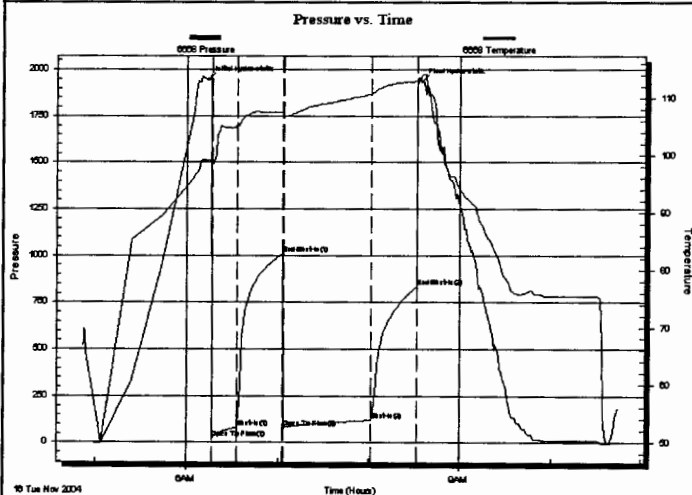
End Time:

10:44:32

Time On Btm: **2004.11.16 @ 06:13:32**

Time Off Btm: **2004.11.16 @ 08:34:32**

TEST COMMENT: FFP-wk to fr 1/2" to 3 1/4"bl
FFP-wk to gd 1"to 8"bl
ISP-no bl, FSP-surface bl bk
Times 15-30-60-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1944.64	99.20	Initial Hydro-static
3	22.02	98.66	Open To Flow (1)
19	79.73	105.48	Shut-In(1)
50	1009.72	107.50	End Shut-In(1)
50	80.09	107.10	Open To Flow (2)
108	120.32	110.78	Shut-In(2)
138	834.34	113.03	End Shut-In(2)
141	1934.54	113.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	MGO 20%gas 65%oil 15%mud	2.03
124.00	MGO 20%gas 50%oil 30%mud	1.74
0.00	110'GIP	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

R P Nixon Oper Inc
207 West 12th St
Hays Ks 67601-3898
ATTN: Dan Nixon

Pfeifer G Unit#1
9-14s-21w Trego
Job Ticket: 20896 DST#: 4
Test Start: 2004.11.16 @ 04:52:03

Tool Information

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	56.15 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3998.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.02 ft			
Tool Length:	72.02 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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Change Over Sub	1.00			3978.00	
Shut In Tool	5.00			3983.00	
Hydraulic tool	5.00			3988.00	
Packer	5.00			3993.00	21.00 Bottom Of Top Packer
Packer	5.00			3998.00	
Stubb	1.00			3999.00	
Perforations	1.00			4000.00	
Recorder	0.01	6668	Inside	4000.01	
Blank Spacing	31.00			4031.01	
Recorder	0.01	13534	Outside	4031.02	
Perforations	15.00			4046.02	
Bullnose	3.00			4049.02	51.02 Bottom Packers & Anchor

Total Tool Length: 72.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

R P Nixon Oper Inc

Pfeifer G Unit#1

207 West 12th St
Hays Ks 67601-3898

9-14s-21w Trego

Job Ticket: 20896

DST#: 4

ATTN: Dan Nixon

Test Start: 2004.11.16 @ 04:52:03

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 8.77 in³

Resistivity: ohm.m

Salinity: 3500.00 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:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
145.00	MGO 20%gas 65%oil 15%mud	2.034
124.00	MGO 20%gas 50%oil 30%mud	1.739
0.00	110'GIP	0.000

Total Length: 269.00 ft

Total Volume: 3.773 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

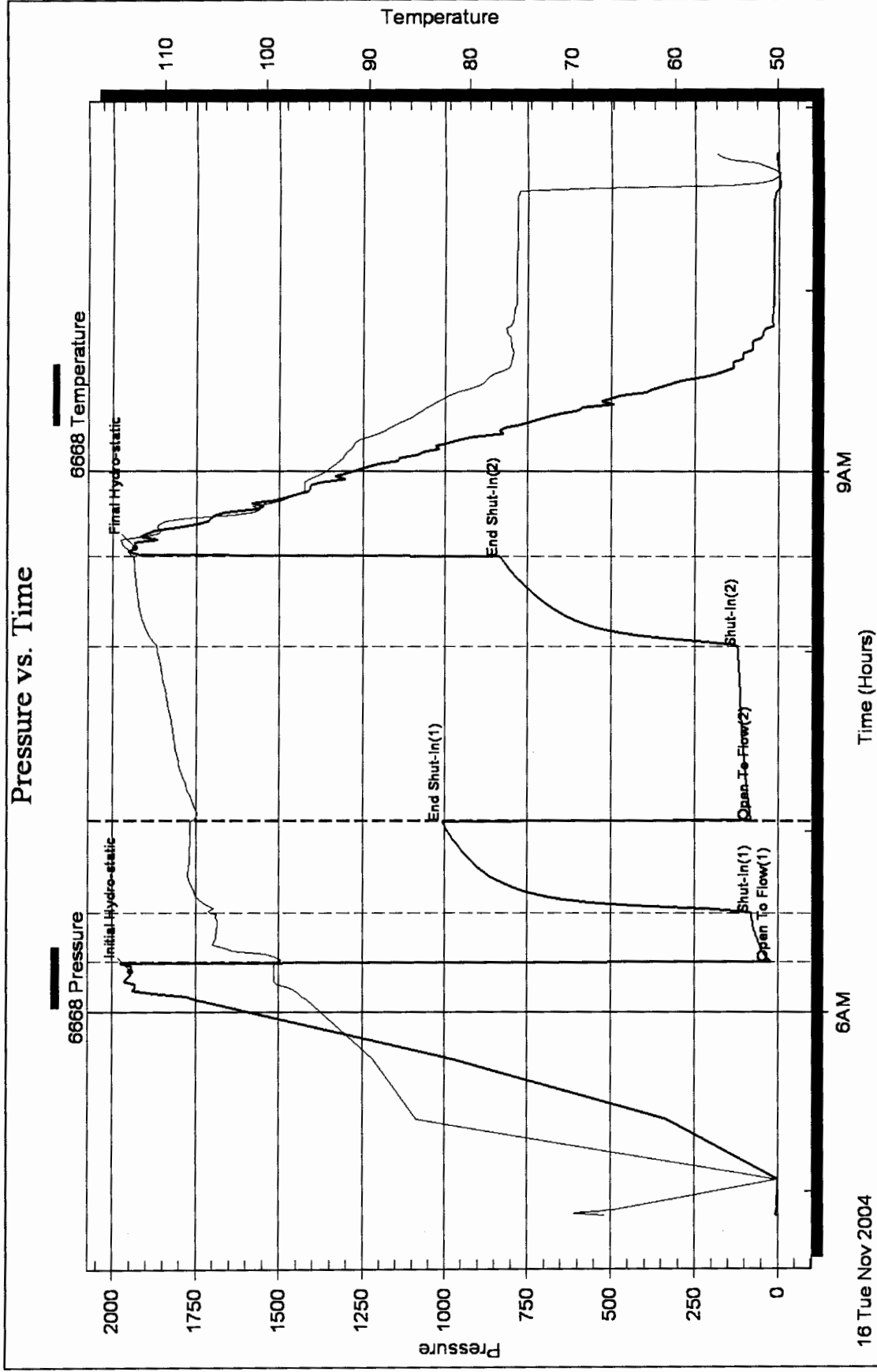
Serial #: 6668

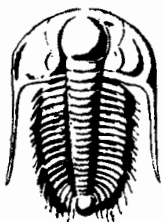
Inside

R P Nixon Oper Inc

9-14s-21w Trego

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20893

05/03

Test Ticket

Well Name & No. Pfeifer G Unit #1 Test No. 1 Date 11-13-04
Company R P Nixon Operations Inc Zone Tested LKC
Address 267 West 12th Street Hays, Ks 67601-3898 Elevation 2250 KB 2245 GL
Co. Rep / Geo. Dan Nixon Cont. Shields rig 1 Est. Ft. of Pay — Por. — %
Location: Sec. 9 Twp. 14^s Rge. 21^w Co. Trego State Ks
No. of Copies Reg Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3603-3661 Initial Str Wt./Lbs. 48000 Unseated Str Wt./Lbs. 48000
Anchor Length 58 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
Top Packer Depth 3598 Tool Weight 2200
Bottom Packer Depth 3603 Hole Size 7 7/8" — Rubber Size 6 3/4" —
Total Depth 3661 Wt. Pipe Run — Drill Collar Run —
Mud Wt. 8.9 LCM Tr Vis. 44 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3603
Blow Description IFP - WEAK Blow thru-out 1/2" to 2" Blow
FFP - WEAK Blow To A Good Blow 1" to 6" Blow
ISIP - NO Blow on shut-in
FSIP - 1/4" Blow Back

Recovery - Total Feet 186 GIP 124 Ft. in DC — Ft. in DP 186
Rec. 124 Feet of MGO 5 %gas 75 %oil — %water 20 %mud
Rec. 62 Feet of MGO 5 %gas 55 %oil — %water 40 %mud
Rec. — Feet of — — %gas — %oil — %water — %mud
Rec. — Feet of — — %gas — %oil — %water — %mud
Rec. — Feet of — — %gas — %oil — %water — %mud
BHT 106 °F Gravity — °API D @ — °F Corrected Gravity — °API
RW — @ — °F Chlorides — ppm Recovery — Chlorides 4000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>1697</u>	PSI	Recorder No.	<u>6668</u>	Test	<u>✓</u> <u>900</u>
(B) First Initial Flow Pressure	<u>19</u>	PSI	(depth)	<u>3607</u>	Elec. Rec.	<u>✓</u>
(C) First Final Flow Pressure	<u>55</u>	PSI	Recorder No.	<u>13534</u>	Jars	<u>—</u>
(D) Initial Shut-In Pressure	<u>1151</u>	PSI	(depth)	<u>3638</u>	Safety Jt.	<u>—</u>
(E) Second Initial Flow Pressure	<u>64</u>	PSI	Recorder No.	<u>—</u>	Circ Sub	<u>—</u>
(F) Second Final Flow Pressure	<u>98</u>	PSI	(depth)	<u>—</u>	Sampler	<u>—</u>
(G) Final Shut-In Pressure	<u>1068</u>	PSI	Initial Opening	<u>15</u>	Straddle	<u>—</u>
(Q) Final Hydrostatic Mud	<u>1688</u>	PSI	Initial Shut-In	<u>30</u>	Ext. Packer	<u>—</u>

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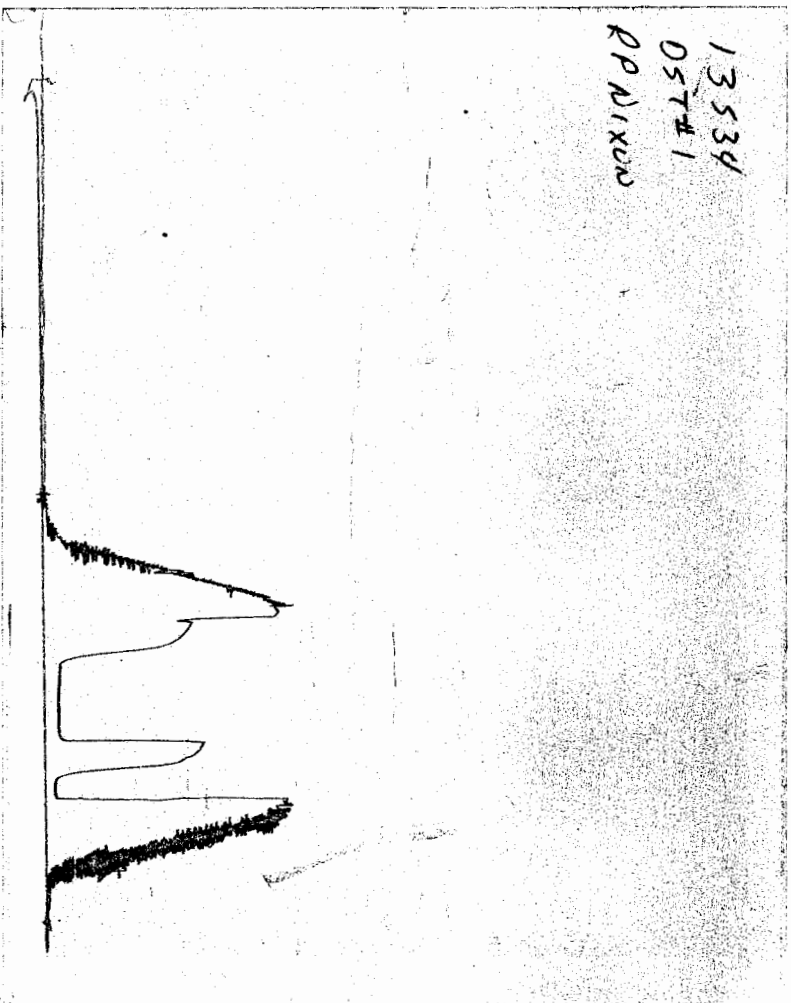
Approved By Ray

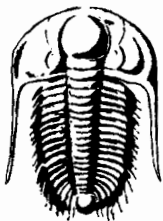
Our Representative Ray Schwager THANK 404

Final Flow	<u>60</u>	Shale Packer	<u>—</u>
Final Shut-In	<u>30</u>	Mileage	<u>✓</u> <u>56</u>
T-On Location	<u>1330</u>	Sub Total:	<u>956</u>
T-Started	<u>1428</u>	Std. By	<u>—</u>
T-Open	<u>1610</u>	Other	<u>—</u>
T-Pulled	<u>1825</u>	Total:	<u>—</u>
T-Out	<u>2004</u>		

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20894

05/03

Test Ticket

Well Name & No.	Pfeifer G Unit #1		Test No.	2	Date	11-14-04	
Company	R. P. NIXON OPERATIONS INC		Zone Tested	LKC			
Address	207 WEST 12 TH STREET HAYS, Ks 67601-3898		Elevation	2250	KB	2245	GL
Co. Rep / Geo.	Dan Nixon	Cont.	Shields rig 1	Est. Ft. of Pay	— Por. — %		
Location: Sec.	9	Twp.	14 ^S	Rge.	21 ^W	Co.	rego
No. of Copies	Reg	Disbtribution Sheet (Y, N)	Turnkey (Y, N)		Evaluation (Y, N)		

Interval Tested	3680 - 3730	Initial Str Wt./Lbs.	48000	Unseated Str Wt./Lbs.	48000						
Anchor Length	50	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	55000						
Top Packer Depth	3675	Tool Weight	2200								
Bottom Packer Depth	3680	Hole Size 7 7/8"	—	Rubber Size 6 3/4"	—						
Total Depth	3730	Wt. Pipe Run	—	Drill Collar Run	—						
Mud Wt.	8.9	LCM	Te	Vis.	48	WL	8.4	Drill Pipe Size	4 1/2 FH	Ft. Run	3682
Blow Description	TFP - WEAK Blow thru-out 1/4" Blow FFP - WEAK Blow thru-out 1/4" Blow										

Recovery - Total Feet	15	GIP	60	Ft. in DC	—	Ft. in DP	15			
Rec.	15	Feet of	40 CM	%gas	15	%oil	%water	85	%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	102	°F Gravity	—	°API D @	—	°F Corrected Gravity	—	°API		
RW	—	@	—	°F	Chlorides	ppm Recovery	—	Chlorides	4000	ppm System

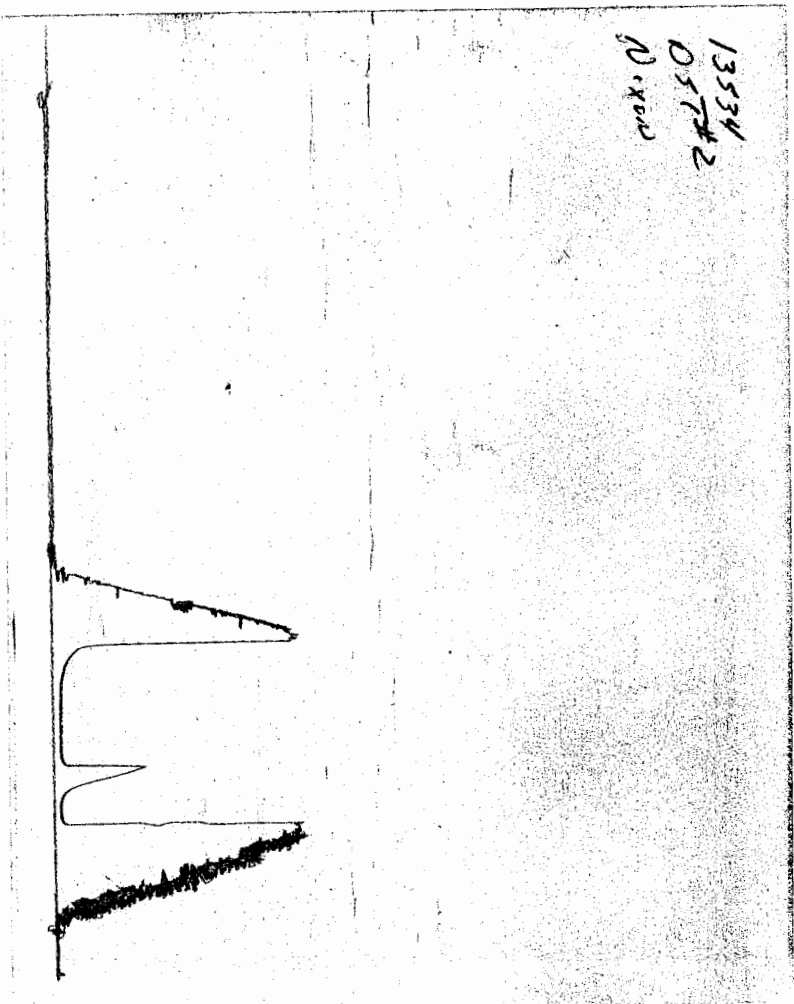
	AK-1	Alpine		Recorder No.	Test
(A) Initial Hydrostatic Mud	1731	PSI		6668	900
(B) First Initial Flow Pressure	15	PSI	(depth)	3682	Elec. Rec. ✓
(C) First Final Flow Pressure	22	PSI		13534	Jars
(D) Initial Shut-In Pressure	686	PSI	(depth)	3714	Safety Jt.
(E) Second Initial Flow Pressure	22	PSI		—	Circ Sub
(F) Second Final Flow Pressure	39	PSI	(depth)	—	Sampler
(G) Final Shut-In Pressure	199	PSI	Initial Opening	15	Straddle
(Q) Final Hydrostatic Mud	1722	PSI	Initial Shut-In	30	Ext. Packer
			Final Flow	60	Shale Packer
			Final Shut-In	30	Mileage
			T-On Location	0525	Sub Total:
			T-Started	0540	Std. By
			T-Open	0725	Other
			T-Pulled	0940	Total:
			T-Out	1055	

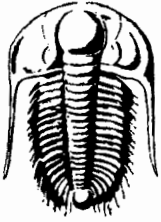
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Approved By _____

Our Representative Ray Schwager Thank you

CHART PAGE
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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20895

Test Ticket

Well Name & No. Pfeifer G Unit #1 Test No. 3 Date 11-15-01
 Company R. P. NIXON OPERATIONS INC Zone Tested CLC 3d
 Address 207 WEST 12TH STREET HAYS, KS 67601-3898 Elevation 2250 KB 2245 GL
 Co. Rep / Geo. DAN NIXON Cont. SHIELDS 1191 Est. Ft. of Pay -- Por. -- %
 Location: Sec. 9 Twp. 14^S Rge. 21^W Co. 1 REGO State K
 No. of Copies Reg Distribution Sheet (Y, N) -- Turnkey (Y, N) -- Evaluation (Y, N) --

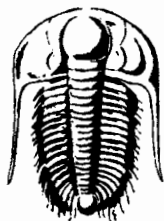
Interval Tested 3998-4040 Initial Str Wt./Lbs. 50000 Unseated Str Wt./Lbs. 50000
 Anchor Length 42 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 3993 Tool Weight 2200
 Bottom Packer Depth 3998 Hole Size 7 7/8" -- Rubber Size 6 3/4" --
 Total Depth 4040 Wt. Pipe Run -- Drill Collar Run --
 Mud Wt. 9.3 LCM TR Vis. 49 WL 8.8 Drill Pipe Size 4 1/2 FH Ft. Run 4061
 Blow Description TFP - WEAK BLOW THRU-OUT 1/4" BLOW
FFP - WEAK BLOW THRU-OUT 1" TO 1 1/4" BLOW

Recovery - Total Feet 95 GIP 60 Ft. in DC -- Ft. in DP 95
 Rec. 20 Feet of CLEAN OIL %gas -- %oil -- %water -- %mud --
 Rec. 75 Feet of MGO 10 %gas 50 %oil -- %water 40 %mud --
 Rec. -- Feet of -- %gas -- %oil -- %water -- %mud --
 Rec. -- Feet of -- %gas -- %oil -- %water -- %mud --
 Rec. -- Feet of -- %gas -- %oil -- %water -- %mud --
 BHT 110 °F Gravity 39 °API D @ 60 °F Corrected Gravity 39 °API
 RW -- @ -- °F Chlorides -- ppm Recovery -- Chlorides 3500 ppm System

AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>1940</u> PSI	Recorder No.	<u>6668</u>	Test	<u>✓</u> <u>900</u>
(B) First Initial Flow Pressure	<u>18</u> PSI	(depth)	<u>4009</u>	Elec. Rec.	<u>✓</u>
(C) First Final Flow Pressure	<u>35</u> PSI	Recorder No.	<u>13534</u>	Jars	<u>--</u>
(D) Initial Shut-In Pressure	<u>973</u> PSI	(depth)	<u>4037</u>	Safety Jt.	<u>--</u>
(E) Second Initial Flow Pressure	<u>38</u> PSI	Recorder No.	<u>--</u>	Circ Sub	<u>--</u>
(F) Second Final Flow Pressure	<u>64</u> PSI	(depth)	<u>--</u>	Sampler	<u>--</u>
(G) Final Shut-In Pressure	<u>684</u> PSI	Initial Opening	<u>15</u>	Straddle	<u>--</u>
(Q) Final Hydrostatic Mud	<u>1932</u> PSI	Initial Shut-In	<u>30</u>	Ext. Packer	<u>--</u>
		Final Flow	<u>60</u>	Shale Packer	<u>--</u>
		Final Shut-In	<u>30</u>	Mileage	<u>✓</u> <u>56 RT</u> <u>56</u>
		T-On Location	<u>1545</u>	Sub Total:	<u>956</u>
		T-Started	<u>1623</u>	Std. By	<u>--</u>
		T-Open	<u>1805</u>	Other	<u>--</u>
		T-Pulled	<u>2020</u>	Total:	<u>--</u>
		T-Out	<u>2205</u>		

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Approved By Ray Schwager
 Our Representative RAY SCHWAGER Thank 4061



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20896

05/03

Test Ticket

Well Name & No.	<u>Pfeifer 6 Unit #1</u>	Test No.	<u>4</u>	Date	<u>11-16-04</u>
Company	<u>R. P. NIXON OPERATIONS INC</u>	Zone Tested	<u>Arbuckle</u>		
Address	<u>202 West 12th Street Hays, Ks 67601-3898</u>	Elevation	<u>2250</u>	KB	<u>2245</u> GL
Co. Rep / Geo.	<u>Dan Nixon</u>	Cont.	<u>Shields rig</u>	Est. Ft. of Pay	<u>—</u> Por. <u>—</u> %
Location: Sec.	<u>9</u>	Twp.	<u>14^s</u>	Rge.	<u>21^w</u> Co. <u>rego</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Disbtribution Sheet (Y, N)	<u>—</u>	Turnkey (Y, N)	<u>—</u> Evaluation (Y, N) <u>—</u>

Interval Tested	<u>3998 - 4050</u>	Initial Str Wt./Lbs.	<u>50000</u>	Unseated Str Wt./Lbs.	<u>52000</u>
Anchor Length	<u>52</u>	Wt. Set Lbs.	<u>25000</u>	Wt. Pulled Loose/Lbs.	<u>60000</u>
Top Packer Depth	<u>3993</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>3998</u>	Hole Size 7 7/8"	<u>—</u>	Rubber Size 6 3/4"	<u>—</u>
Total Depth	<u>4050</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>—</u>
Mud Wt.	<u>9.3</u> LCM <u>tr</u> Vis. <u>49</u> WL <u>8.8</u>	Drill Pipe Size	<u>4 1/2 FH</u>	Ft. Run	<u>4003</u>
Blow Description	<u>IFP - WEAK TO A FAIR BLOW 1/2" TO 3 1/4" BLOW</u>				
	<u>FFP - WEAK TO A BLOW 1" TO 8" BLOW</u>				
	<u>ISIP - NO BLOW ON SHUT-IN</u>				
	<u>FSIP - SURFACE BLOW BACK</u>				

Recovery - Total Feet	<u>269</u>	GIP	<u>110</u>	Ft. in DC	<u>—</u>	Ft. in DP	<u>269</u>
Rec.	<u>145</u>	Feet of	<u>MGO</u>	<u>20</u> %gas	<u>65</u> %oil	%water	<u>215</u> %mud
Rec.	<u>124</u>	Feet of	<u>MGO</u>	<u>20</u> %gas	<u>50</u> %oil	%water	<u>30</u> %mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	<u>113</u>	°F Gravity	<u>—</u>	°API D @	<u>—</u>	°F Corrected Gravity	<u>—</u> °API
RW	<u>—</u>	@	<u>—</u> °F	Chlorides	<u>—</u> ppm Recovery	Chlorides	<u>3500</u> ppm System

AK-1	Alpine						
(A) Initial Hydrostatic Mud	<u>1944</u>	PSI	Recorder No.	<u>6668</u>	Test	☒	<u>1000</u>
(B) First Initial Flow Pressure	<u>22</u>	PSI	(depth)	<u>4000</u>	Elec. Rec.	☒	
(C) First Final Flow Pressure	<u>79</u>	PSI	Recorder No.	<u>13534</u>	Jars		
(D) Initial Shut-In Pressure	<u>1009</u>	PSI	(depth)	<u>4031</u>	Safety Jt.		
(E) Second Initial Flow Pressure	<u>80</u>	PSI	Recorder No.	<u>—</u>	Circ Sub		
(F) Second Final Flow Pressure	<u>120</u>	PSI	(depth)	<u>—</u>	Sampler		
(G) Final Shut-In Pressure	<u>834</u>	PSI	Initial Opening	<u>15</u>	Straddle		
(Q) Final Hydrostatic Mud	<u>1934</u>	PSI	Initial Shut-In	<u>30</u>	Ext. Packer		
			Final Flow	<u>60</u>	Shale Packer		
			Final Shut-In	<u>30</u>	Mileage	<u>✓ 56 RT</u>	<u>56</u>
			T-On Location	<u>0445</u>	Sub Total:		<u>1056</u>
			T-Started	<u>0452</u>	Std. By		
			T-Open	<u>0615</u>	Other		
			T-Pulled	<u>0830</u>	Total:		
			T-Out	<u>1010</u>			

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Approved By Ray Schwager

Our Representative Ray Schwager THANK YOU

CHART PAGE

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

