



DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.01 @ 06:49:47

End Date: 2012.04.01 @ 13:52:17

Job Ticket #: 45701 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.05 @ 13:37:11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

ATTN: Clayton Erickson

Job Ticket: 45701

DST#: 1

Test Start: 2012.04.01 @ 06:49:47

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:50:17

Time Test Ended: 13:52:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3472.00 ft (KB) To 3525.00 ft (KB) (TVD)

Reference Elevations: 2204.00 ft (KB)

Total Depth: 3525.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8734 Outside

Press @ RunDepth: 250.90 psig @ 3475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.01

Last Calib.:

2012.04.01

Start Time: 06:49:48

End Time:

13:52:17

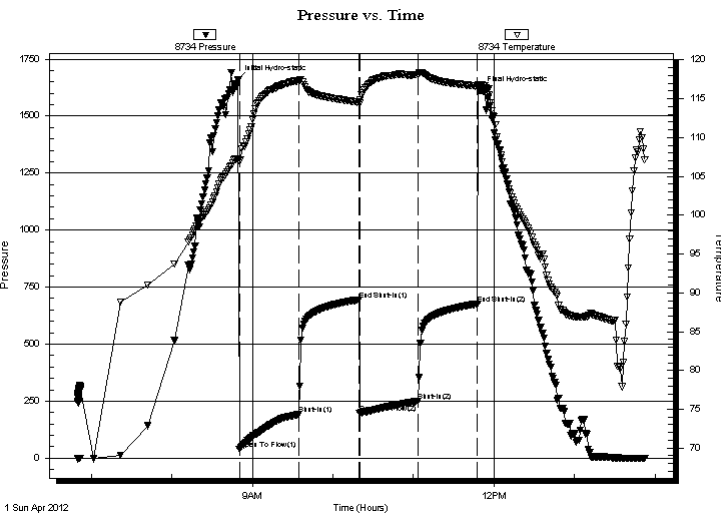
Time On Btm:

2012.04.01 @ 08:49:17

Time Off Btm:

2012.04.01 @ 11:49:47

TEST COMMENT: IFP - BOB 19 min
ISI - sur blow back - died 17 min
FFP - BOB 17 min
FSI - 1" blow back - died 35 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.61	107.27	Initial Hydro-static
1	38.42	106.95	Open To Flow (1)
45	191.58	117.31	Shut-In(1)
90	694.64	114.56	End Shut-In(1)
91	196.14	114.45	Open To Flow (2)
134	250.90	118.13	Shut-In(2)
179	676.44	116.60	End Shut-In(2)
181	1612.30	116.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
308.00	MW 95%W, 5%M	1.51
30.00	VSOCWM 5%O, 20%W, 75%M	0.40
60.00	OCM 50%O, 50%M	0.84
2.00	FREE OIL 95%O, 5%M	0.03
0.00	120' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45701

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 06:49:47

Tool Information

Drill Pipe:	Length: 3165.00 ft	Diameter: 3.80 inches	Volume: 44.40 bbl	Tool Weight: 2500.00 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: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 45.92 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3472.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3450.00	
Hydraulic tool	5.00			3455.00	
Jars	5.00			3460.00	
Safety Joint	2.00			3462.00	
Packer	5.00			3467.00	27.00 Bottom Of Top Packer
Packer	5.00			3472.00	
Stubb	1.00			3473.00	
Perforations	1.00			3474.00	
Change Over Sub	1.00			3475.00	
Recorder	0.00	6669	Inside	3475.00	
Recorder	0.00	8734	Outside	3475.00	
Blank Spacing	31.00			3506.00	
Change Over Sub	1.00			3507.00	
Perforations	15.00			3522.00	
Bullnose	3.00			3525.00	53.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45701

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 06:49:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 115000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
308.00	MW 95%W, 5%M	1.515
30.00	VSOCWM 5%O, 20%W, 75%M	0.403
60.00	OCM 50%O, 50%M	0.842
2.00	FREE OIL 95%O, 5%M	0.028
0.00	120' GIP	0.000

Total Length: 400.00 ft

Total Volume: 2.788 bbl

Num Fluid Samples: 0

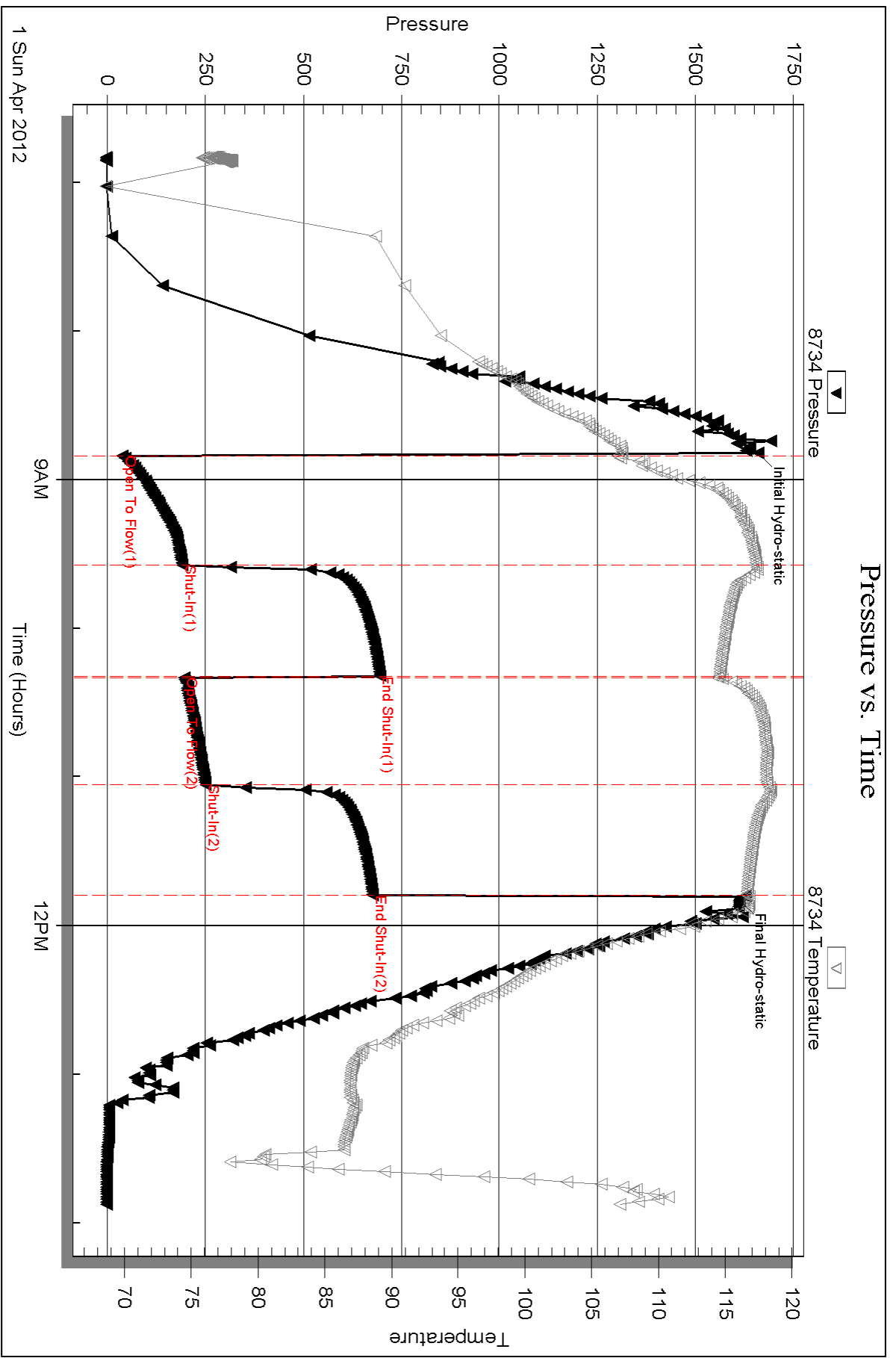
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



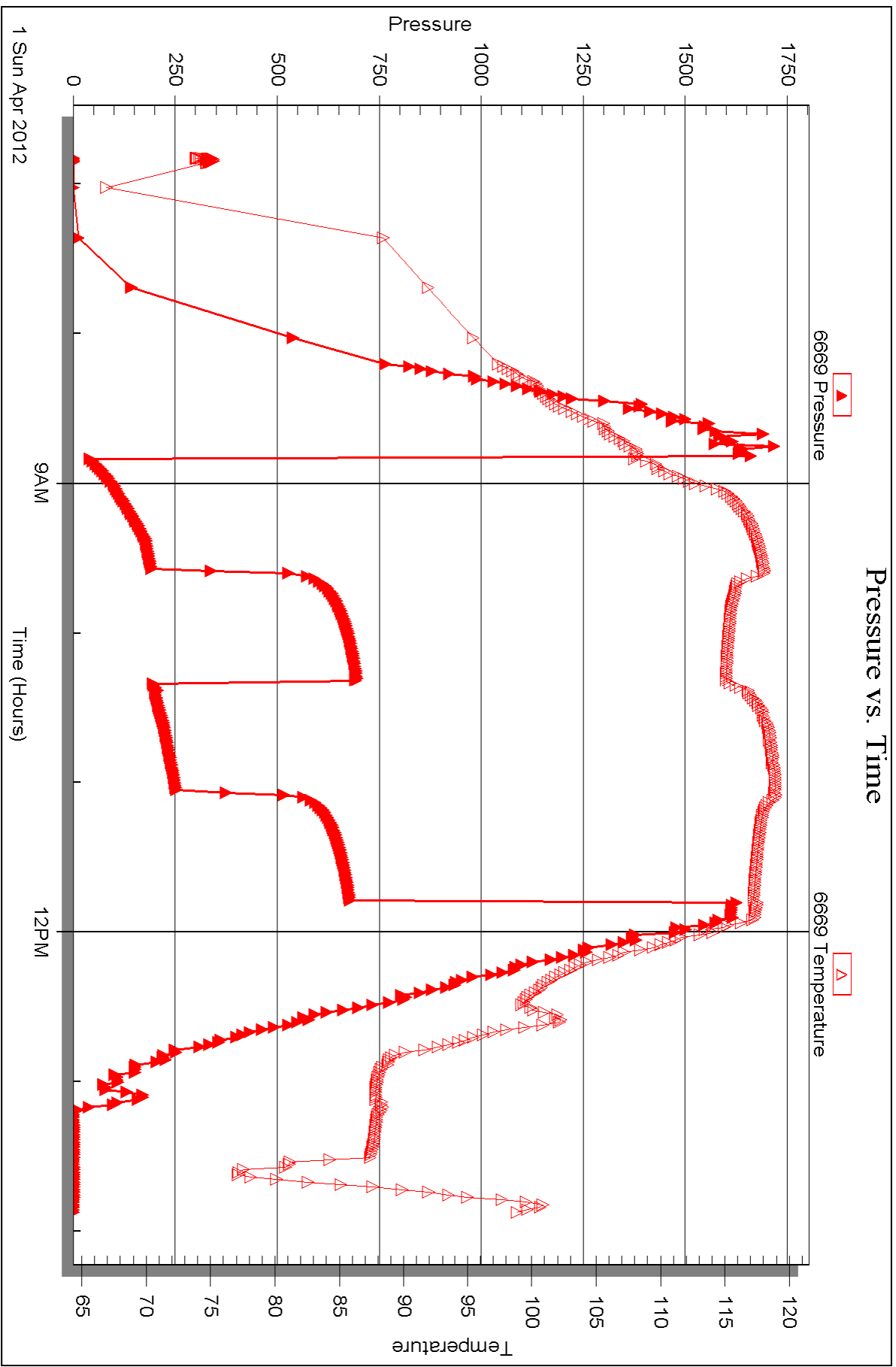
Serial #: 6669

Inside

Tengasco, Inc.

Schoenthaler #5

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.01 @ 19:54:52

End Date: 2012.04.02 @ 01:41:52

Job Ticket #: 45702 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.05 @ 13:36:19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

ATTN: Clayton Erickson

Job Ticket: 45702

DST#: 2

Test Start: 2012.04.01 @ 19:54:52

GENERAL INFORMATION:

Formation: **LKC "D-E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:52

Time Test Ended: 01:41:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3527.00 ft (KB) To 3558.00 ft (KB) (TVD)

Reference Elevations: 2204.00 ft (KB)

Total Depth: 3558.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 21.47 psig @ 3530.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.02

Last Calib.:

2012.04.02

Start Time: 19:54:53

End Time:

01:41:52

Time On Btm:

2012.04.01 @ 21:46:52

Time Off Btm:

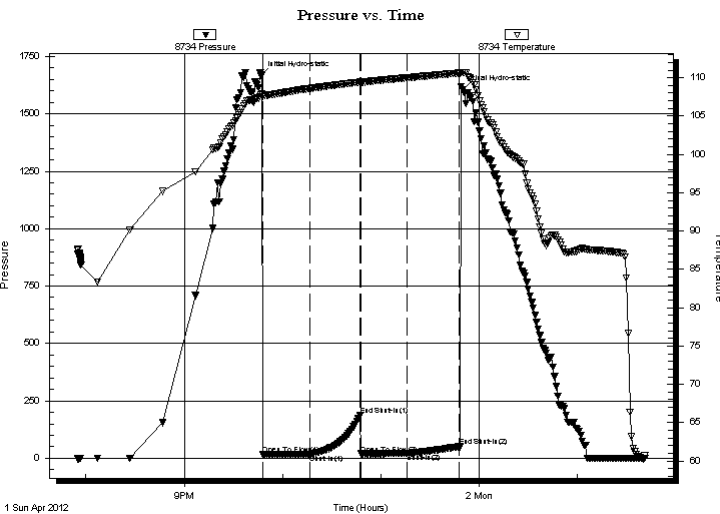
2012.04.01 @ 23:50:22

TEST COMMENT: IFP - weak sur blow - died 14 min

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.77	107.81	Initial Hydro-static
1	15.79	107.54	Open To Flow (1)
30	17.85	108.61	Shut-In(1)
61	185.57	109.43	End Shut-In(1)
61	18.92	109.39	Open To Flow (2)
89	21.47	109.99	Shut-In(2)
121	50.21	110.61	End Shut-In(2)
124	1604.98	110.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	O spd MUD 100%	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45702

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 19:54:52

Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2500.00 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: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 46.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3527.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3505.00	
Hydraulic tool	5.00			3510.00	
Jars	5.00			3515.00	
Safety Joint	2.00			3517.00	
Packer	5.00			3522.00	27.00 Bottom Of Top Packer
Packer	5.00			3527.00	
Stubb	1.00			3528.00	
Perforations	2.00			3530.00	
Recorder	0.00	6669	Inside	3530.00	
Recorder	0.00	8734	Outside	3530.00	
Perforations	25.00			3555.00	
Bullnose	3.00			3558.00	31.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45702

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 19:54:52

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	O spd MUD 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

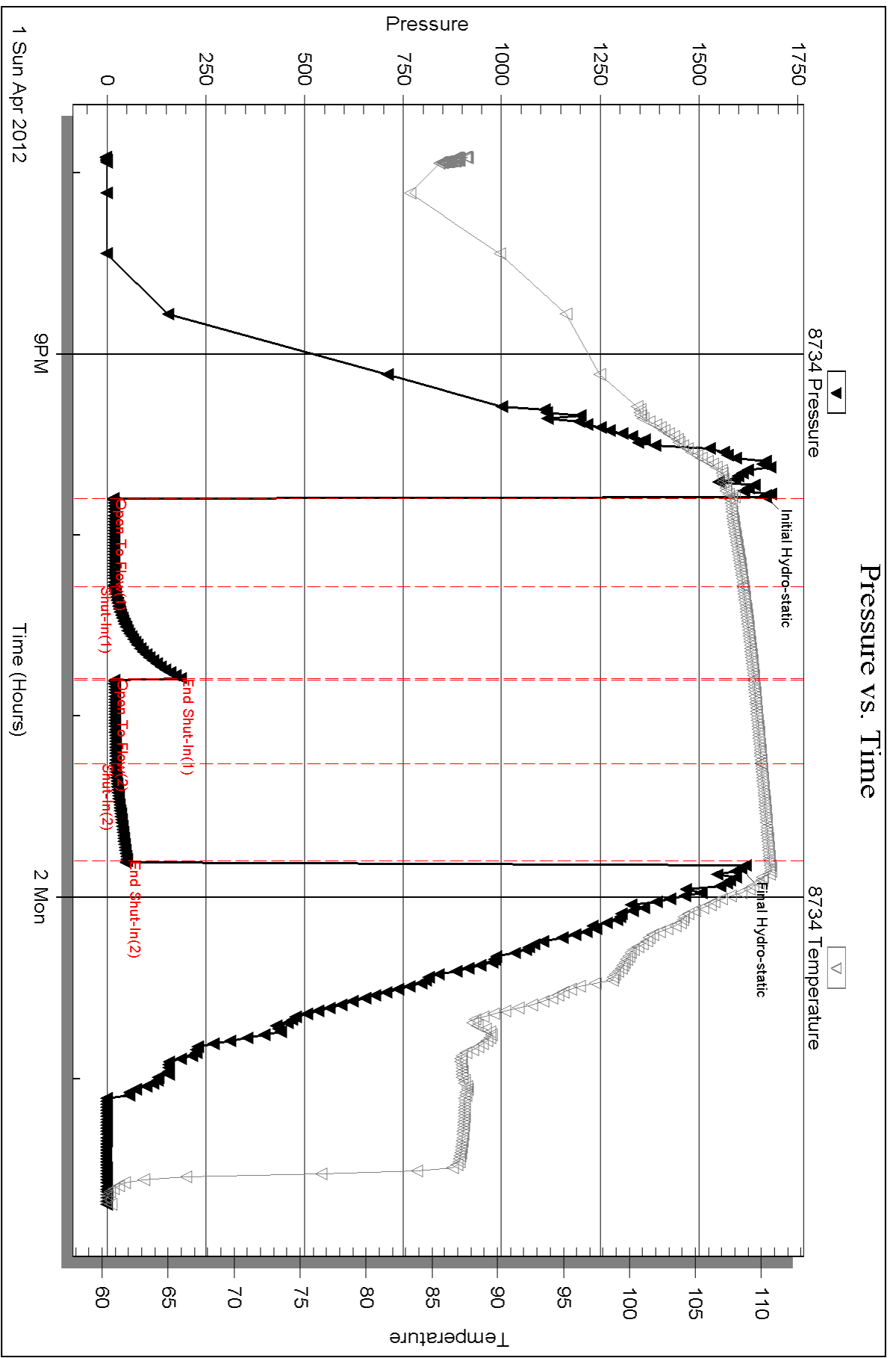
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



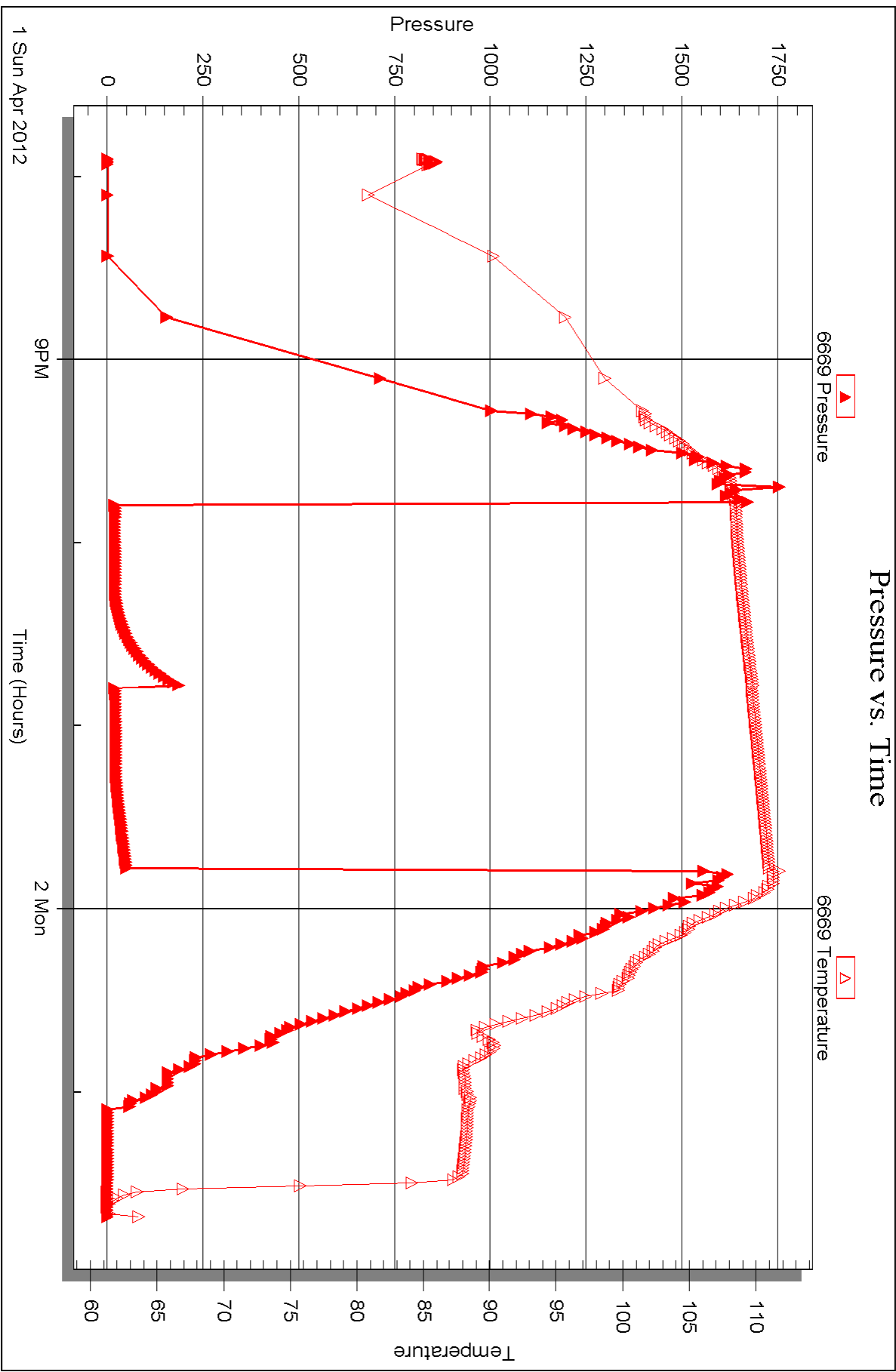
Serial #: 6669

Inside

Tengasco, Inc.

Schoenthaler #5

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.02 @ 15:13:07

End Date: 2012.04.02 @ 21:36:37

Job Ticket #: 45703 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.05 @ 13:35:37

Tengasco, Inc. 34-12s-21w Trego,KS Schoenthaler #5 DST # 3 LKC "J" 2012.04.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45703

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.02 @ 15:13:07

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:25:07

Time Test Ended: 21:36:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3646.00 ft (KB) To 3671.00 ft (KB) (TVD)

Reference Elevations: 2204.00 ft (KB)

Total Depth: 3671.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 15.66 psig @ 3648.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date:

2012.04.02

Last Calib.:

2012.04.02

Start Time: 15:13:08

End Time:

21:36:37

Time On Btm:

2012.04.02 @ 17:24:07

Time Off Btm:

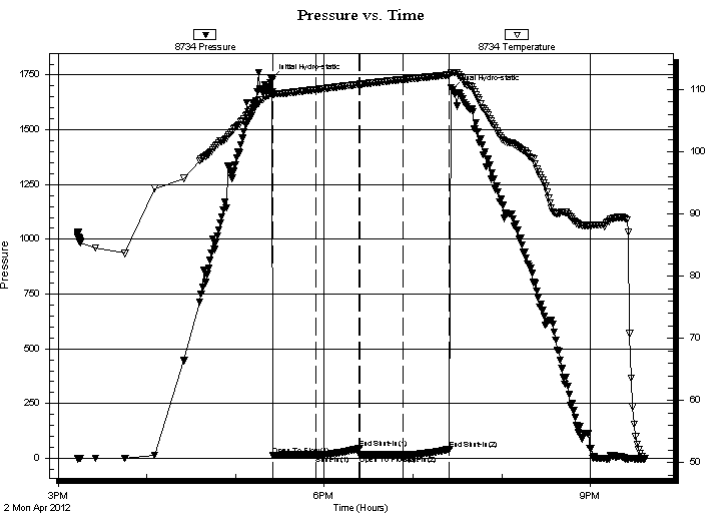
2012.04.02 @ 19:26:37

TEST COMMENT: IFP - sur blow - died 2 min

ISI - no blow back

FFP - no blow

FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.26	109.55	Initial Hydro-static
1	15.01	109.21	Open To Flow (1)
30	15.41	110.00	Shut-In(1)
60	46.50	110.85	End Shut-In(1)
60	15.15	110.86	Open To Flow (2)
89	15.66	111.62	Shut-In(2)
121	41.58	112.36	End Shut-In(2)
123	1681.83	112.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	DRL MUD 100%	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45703

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.02 @ 15:13:07

Tool Information

Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2500.00 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: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 48.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3646.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 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
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Shut In Tool	5.00			3624.00	
Hydraulic tool	5.00			3629.00	
Jars	5.00			3634.00	
Safety Joint	2.00			3636.00	
Packer	5.00			3641.00	27.00 Bottom Of Top Packer
Packer	5.00			3646.00	
Stubb	1.00			3647.00	
Perforations	1.00			3648.00	
Recorder	0.00	6669	Inside	3648.00	
Recorder	0.00	8734	Outside	3648.00	
Perforations	20.00			3668.00	
Bullnose	3.00			3671.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45703

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.02 @ 15:13:07

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:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	DRL MUD 100%	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

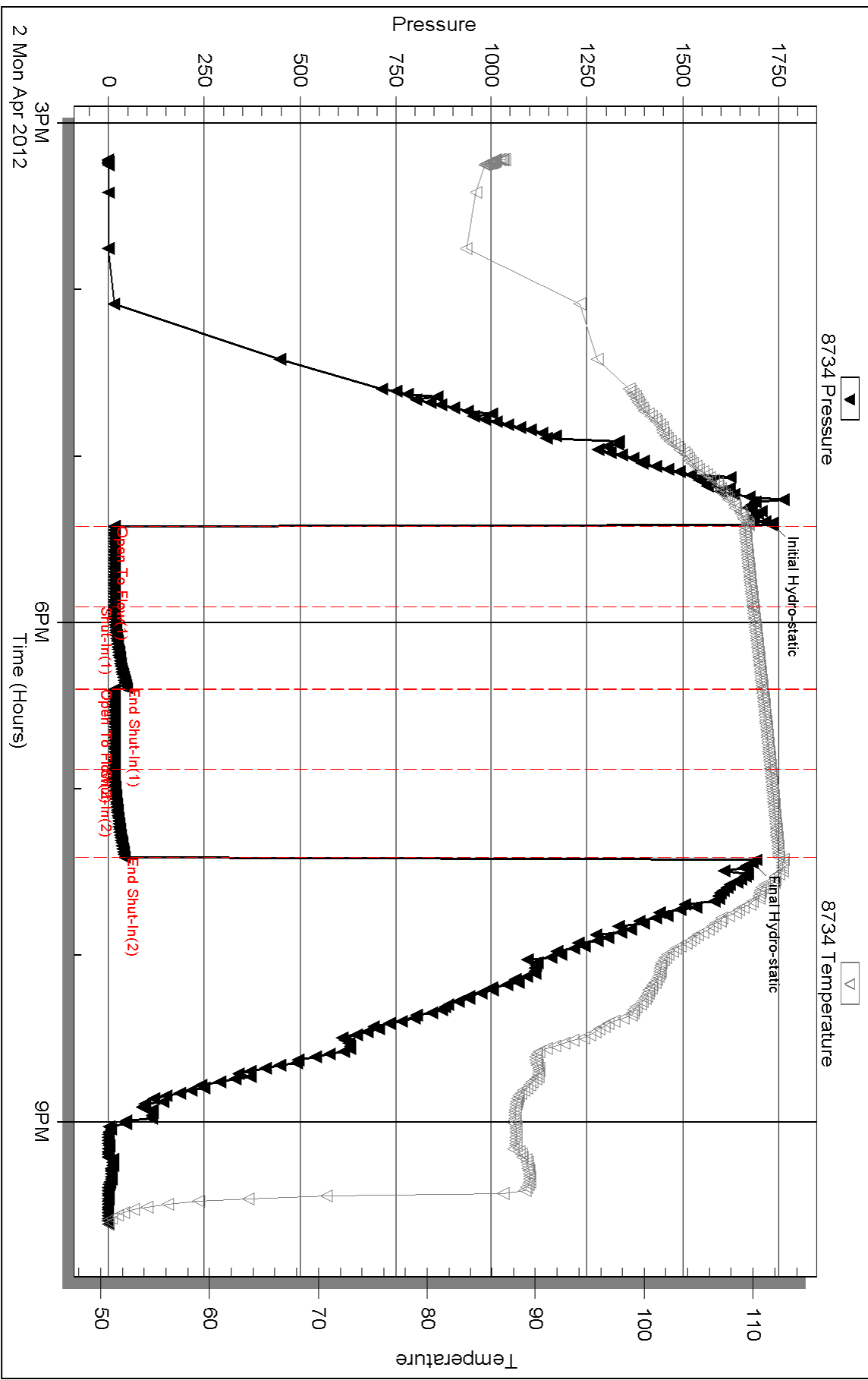
Serial #: 8734

Outside Tengasco, Inc.

Schoenthaler #5

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45703

Printed: 2012.04.05 @ 13:35:42

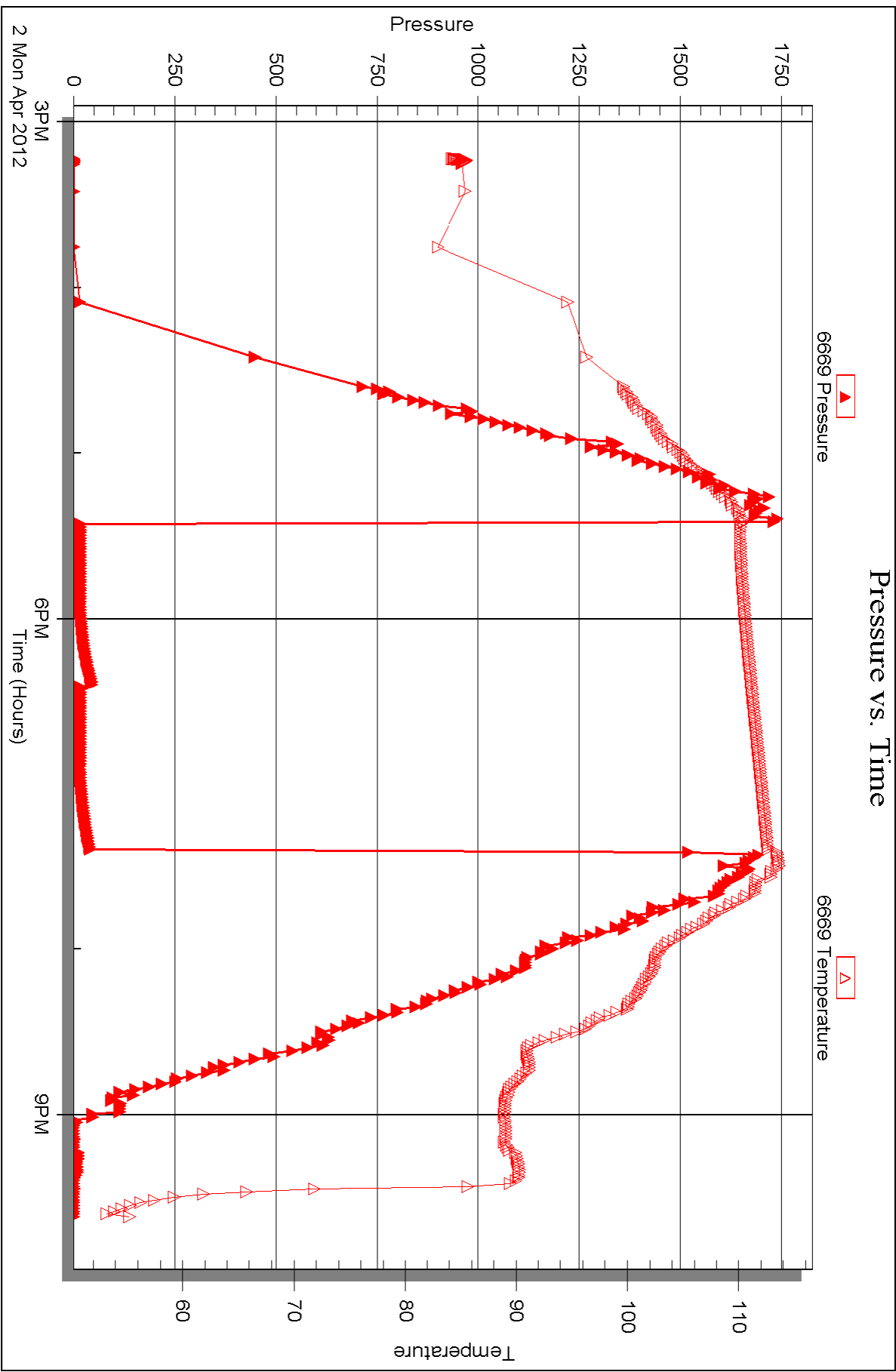
Serial #: 6669

Inside

Tengasco, Inc.

Schoenthaler #5

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45703

Printed: 2012.04.05 @ 13:35:42



DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.03 @ 14:32:00

End Date: 2012.04.03 @ 22:56:30

Job Ticket #: 45704 DST #: 4

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

Printed: 2012.04.05 @ 13:33:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45704

DST#: 4

ATTN: Clayton Erickson

Test Start: 2012.04.03 @ 14:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:00

Time Test Ended: 22:56:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3846.00 ft (KB) To 3853.00 ft (KB) (TVD)

Reference Elevations: 2204.00 ft (KB)

Total Depth: 3853.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 313.98 psig @ 3847.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.03

End Date: 2012.04.03

Last Calib.: 2012.04.03

Start Time: 14:32:01

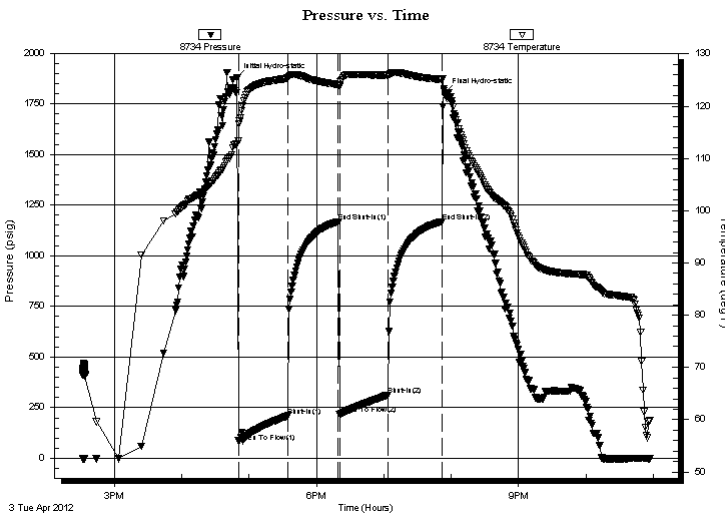
End Time: 22:56:30

Time On Btm: 2012.04.03 @ 16:49:30

Time Off Btm: 2012.04.03 @ 19:54:30

TEST COMMENT: IFP - BOB 7 min
ISI - 2 1/2" blow back - died 37 min
FFP - BOB 8 min
FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.01	112.88	Initial Hydro-static
2	81.04	116.58	Open To Flow (1)
45	209.63	125.42	Shut-In(1)
90	1168.83	124.12	End Shut-In(1)
91	218.83	123.86	Open To Flow (2)
135	313.98	125.93	Shut-In(2)
183	1169.41	125.08	End Shut-In(2)
185	1805.79	122.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 10%G, 45%O, 45%M	0.59
500.00	REVERSED OUT OIL	5.28
155.00	FREE OIL 95%O, 5%M	2.17
0.00	180' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45704

DST#: 4

ATTN: Clayton Erickson

Test Start: 2012.04.03 @ 14:32:00

Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight: 2500.00 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: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3846.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3824.00	
Hydraulic tool	5.00			3829.00	
Jars	5.00			3834.00	
Safety Joint	2.00			3836.00	
Packer	5.00			3841.00	27.00 Bottom Of Top Packer
Packer	5.00			3846.00	
Stubb	1.00			3847.00	
Recorder	0.00	6669	Inside	3847.00	
Recorder	0.00	8734	Outside	3847.00	
Perforations	3.00			3850.00	
Bullnose	3.00			3853.00	7.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45704

DST#: 4

ATTN: Clayton Erickson

Test Start: 2012.04.03 @ 14:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GMCO 10%G, 45%O, 45%M	0.590
500.00	REVERSED OUT OIL	5.283
155.00	FREE OIL 95%O, 5%M	2.174
0.00	180' GIP	0.000

Total Length: 775.00 ft

Total Volume: 8.047 bbl

Num Fluid Samples: 0

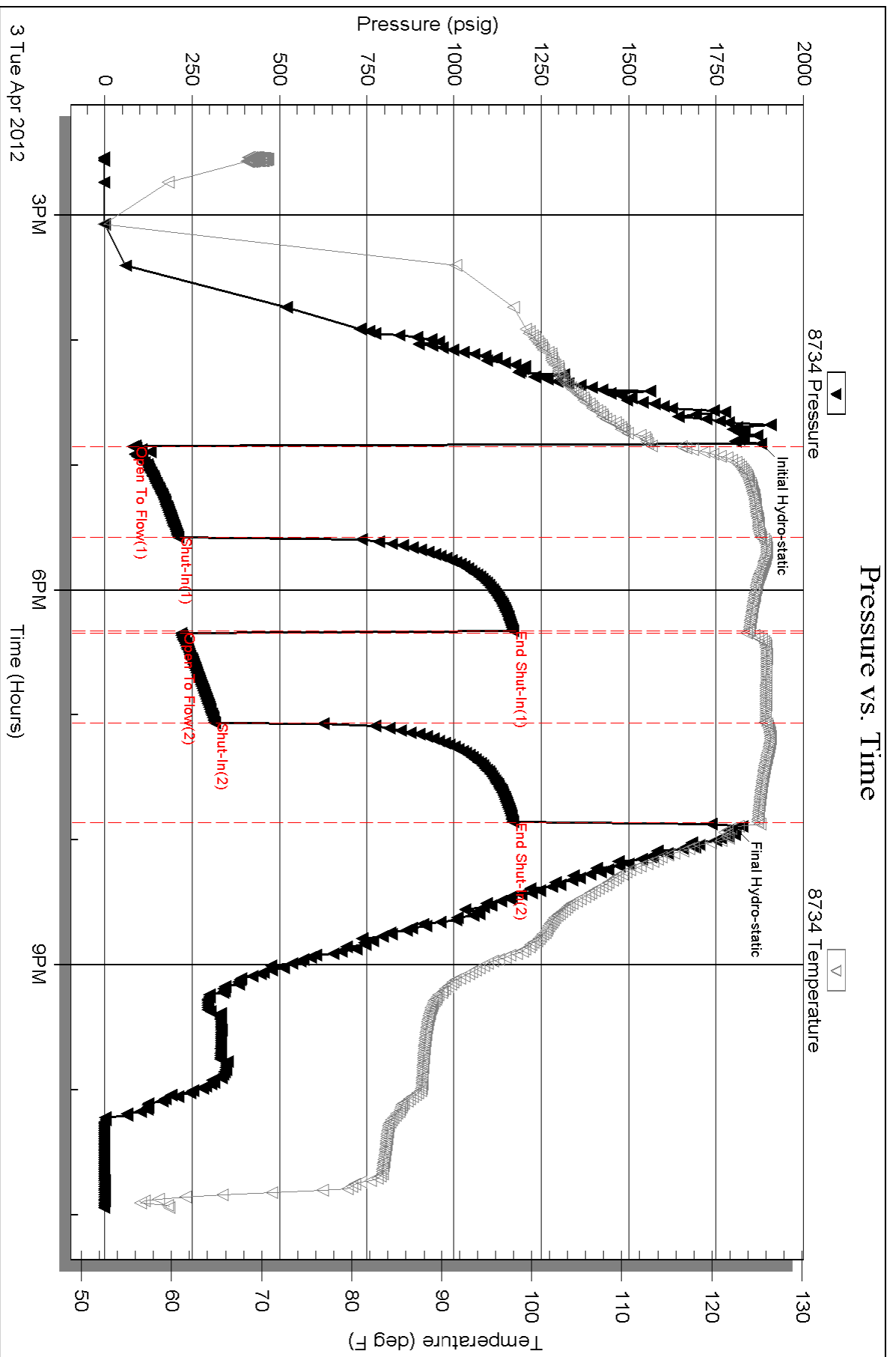
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



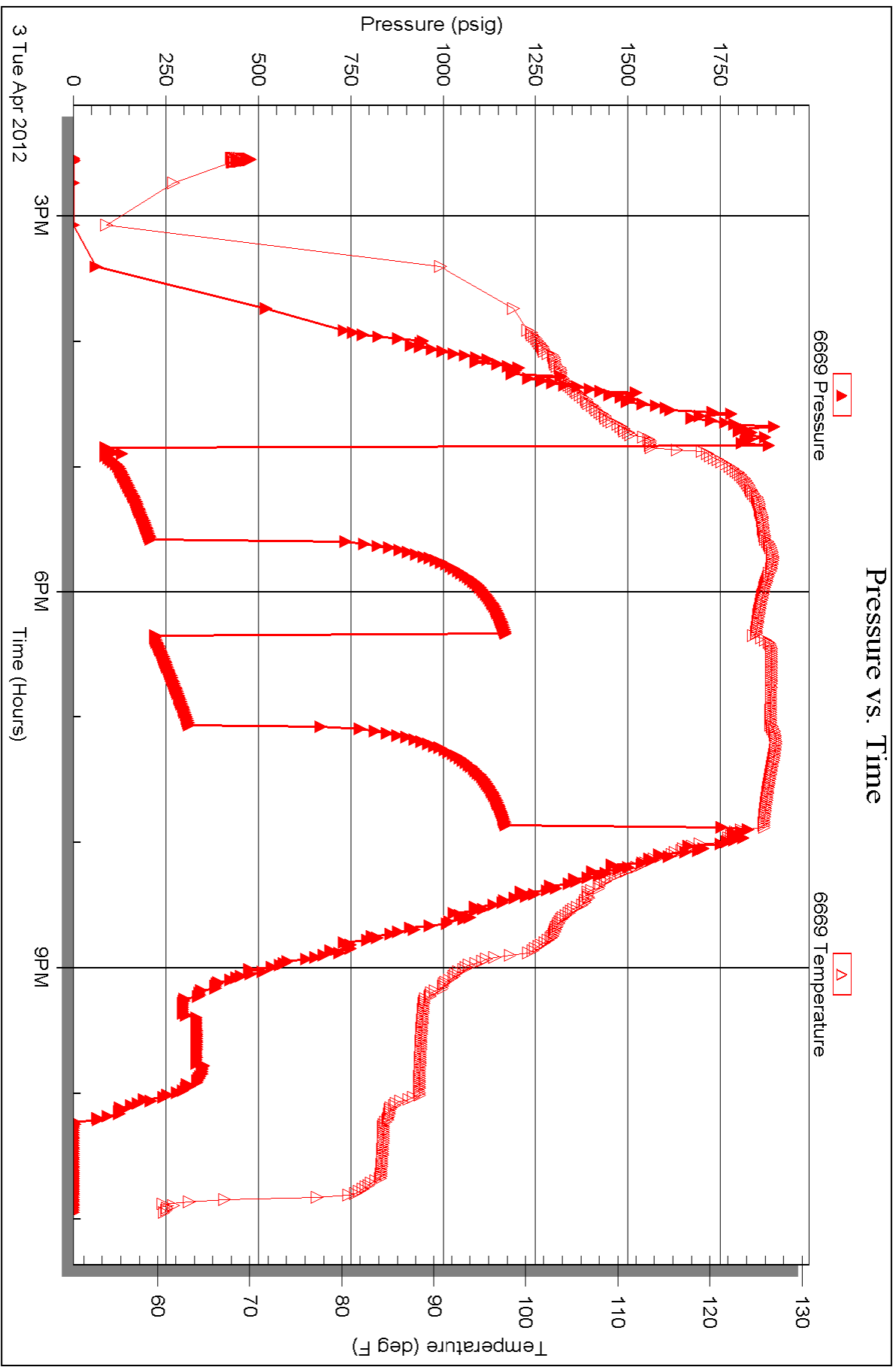
Serial #: 6669

Inside

Tengasco, Inc.

Schoenthaler #5

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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APR 05 2012
BY: _____

Test Ticket

NO. 45701

Well Name & No. Schoenthaler #5 Test No. 1 Date 4.1.12
 Company Tengsico Elevation 2204 KB 2195 GL
 Address 1327 Moose Rd PO Box 458 Hays, KS 67601
 Co. Rep / Geo. Clayton Erickson Rig H2 3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State Ks

Interval Tested 3472-3525 Zone Tested LKC "A-C"
 Anchor Length 53 Drill Pipe Run 3165 Mud Wt. 9.0
 Top Packer Depth 3467 Drill Collars Run 310 Vis 48
 Bottom Packer Depth 3472 Wt. Pipe Run — WL 7.2
 Total Depth 3525 Chlorides 3000 ppm System LCM

Blow Description IFP- BOB 19 min
ISI- sur blow back - died 17 min
FFP- BOB 17 min
FST- 1" blow back - died 35 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>GAP</u>				
<u>2</u>	<u>Free oil</u>		<u>95%</u>		<u>5%</u>
<u>60</u>	<u>MCO</u>		<u>50%</u>		<u>50%</u>
<u>30</u>	<u>USOCWM</u>		<u>5%</u>	<u>20%</u>	<u>75%</u>
<u>308</u>	<u>MW</u>		<u>95%</u>		<u>5%</u>

Rec Total 400 BHT 117 Gravity 37 API RW .068 @ 80 °F Chlorides 115,000 ppm

(A) Initial Hydrostatic 1660 Test 1125' T-On Location 0507
 (B) First Initial Flow 38 Jars 250' T-Started 0649
 (C) First Final Flow 192 Safety Joint 75' T-Open 0849
 (D) Initial Shut-In 675 Circ Sub T-Pulled 1149
 (E) Second Initial Flow 196 Hourly Standby T-Out 1352
 (F) Second Final Flow 251 Mileage 49 RT 6860' Comments 2' fill on bottom
 (G) Final Shut-In 676 Sampler
 (H) Final Hydrostatic 1612 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 45 Extra Recorder Sub Total 0
 Initial Shut-In 45 Day Standby Total 1518.60
 Final Flow 45 Accessibility MP/DST Disc't
 Final Shut-In 45 Sub Total 1518.60

Approved By _____ Our Representative Brian Ferbak

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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APR 05 2012

Test Ticket

NO. 45702

BY: _____

Well Name & No. Schoenthaler #5 Test No. 2 Date 4-1-12
 Company Teregasco Elevation 2204 KB 2195 GL
 Address _____
 Co. Rep / Geo. Clayton Erickson Rig H2 3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State Kc

Interval Tested 3527-3558 Zone Tested LKC "O-E"
 Anchor Length 31 Drill Pipe Run 3197 Mud Wt. 9.0
 Top Packer Depth 3522 Drill Collars Run 310 Vis 48
 Bottom Packer Depth 3527 Wt. Pipe Run - WL 7.2
 Total Depth 3558 Chlorides 3000 ppm System LCM
 Blow Description IFP - weak sur blow - died 14 min
ISI - no blow back
FFP - no blow
FSD - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>0 septd mud</u>			<u>100</u>	
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

Rec Total 3 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 166% Test 1125' T-On Location 1925
 (B) First Initial Flow 16 Jars 250' T-Started 1954
 (C) First Final Flow 18 Safety Joint 75' T-Open 2147
 (D) Initial Shut-In 186 Circ Sub _____ T-Pulled 2347
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 0141
 (F) Second Final Flow 21 Mileage 49 RT 68.60 Comments _____
 (G) Final Shut-In 50 Sampler _____
 (H) Final Hydrostatic 1605 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1518.60
 Final Flow 30 Accessibility _____ MP/DST Disc'l _____
 Final Shut-In 30 Sub Total 1518.60

Approved By _____ Our Representative Brian Fairbank

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Test Ticket

NO. 45703

Well Name & No. Schoenthaler #5 Test No. 3 Date 4-2-12
 Company Tengasco Elevation 2204 KB 2195 GL
 Address _____
 Co. Rep / Geo. Clayton Erickson Rig H2 3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Troy State W

Interval Tested 3646-271 Zone Tested LKC "5"
 Anchor Length 25 Drill Pipe Run 3322 Mud Wt. 9.0
 Top Packer Depth 3641 Drill Collars Run 310 Vis 44
 Bottom Packer Depth 3646 Wt. Pipe Run — WL 8.4
 Total Depth 3671 Chlorides 6000 ppm System LCM _____

Blow Description IFP- sur blow - died 2 min
IST- no blow back
FFP- no blow
FSI- no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Dril mud</u>			<u>100</u>	<u>%mud</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1732</u>	<input checked="" type="checkbox"/> Test	<u>1125'</u>	T-On Location	<u>1400</u>
(B) First Initial Flow	<u>15</u>	<input checked="" type="checkbox"/> Jars	<u>250'</u>	T-Started	<u>1513</u>
(C) First Final Flow	<u>15</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75'</u>	T-Open	<u>1725</u>
(D) Initial Shut-In	<u>47</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1925</u>
(E) Second Initial Flow	<u>15</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2137</u>
(F) Second Final Flow	<u>16</u>	<input checked="" type="checkbox"/> Mileage	<u>49 RT 68.60</u>	Comments	
(G) Final Shut-In	<u>42</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1682</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>30</u>	<input type="checkbox"/> Day Standby		Total	<u>1518.60</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	

Sub Total 1518.60

Approved By _____ Our Representative Brian Fairbank
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Test Ticket

NO. 45704

Well Name & No. Schoenthaer #5 Test No. 4 Date 4-3-12
 Company Tengasco Elevation 2204 KB 2195 GL
 Address _____
 Co. Rep / Geo. Clayton Erickson Rig H2 3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State ks

Interval Tested 3846-3853 Zone Tested Archie 66
 Anchor Length 7 Drill Pipe Run 3540 Mud Wt. 9.2
 Top Packer Depth 3841 Drill Collars Run 310 Vis 54
 Bottom Packer Depth 3846 Wt. Pipe Run _____ WL 7.2
 Total Depth 3853 Chlorides 6000 ppm System LCM _____

Blow Description IFP- BOB 7 min
ISI- 2 1/2" blow back - died 37 min
FFP- BOB 8 min
FSI- no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Call</u>				
<u>155</u>	<u>Free oil</u>		<u>95</u>		<u>5</u>
<u>500</u>	<u>reversed out oil</u>				
<u>120</u>	<u>GMCO</u>	<u>10</u>	<u>45</u>		<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 775 BHT 125 Gravity 37 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1879 Test 1125 T-On Location 1344
 (B) First Initial Flow 81 Jars 250 T-Started 1432
 (C) First Final Flow 210 Safety Joint 75 T-Open 1651
 (D) Initial Shut-In 1169 Circ Sub 50 T-Pulled 1951
 (E) Second Initial Flow 219 Hourly Standby _____ T-Out 2258
 (F) Second Final Flow 314 Mileage 49 RT 608.60 Comments _____
 (G) Final Shut-In 1169 Sampler _____
 (H) Final Hydrostatic 1806 Straddle _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Copies _____
 Final Shut-In 45 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1568.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1568.60

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