



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1084337

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	Schoenthaler 5
Doc ID	1084337

All Electric Logs Run

Dual Induction
Density Neutron/PE
Micro
CBL/GR

Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	Schoenthaler 5
Doc ID	1084337

Tops

Name	Top	Datum
Anhydrite	1572	+632
Topeka	3224	-1020
Heebner	3446	-1242
Toronto	3467	-1263
Lansing	3482	-1278
BKC	3720	-1516
Marmaton	3756	-1552
Marmaton Chert	3787	-1583
Arbuckle	3850	-1646



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

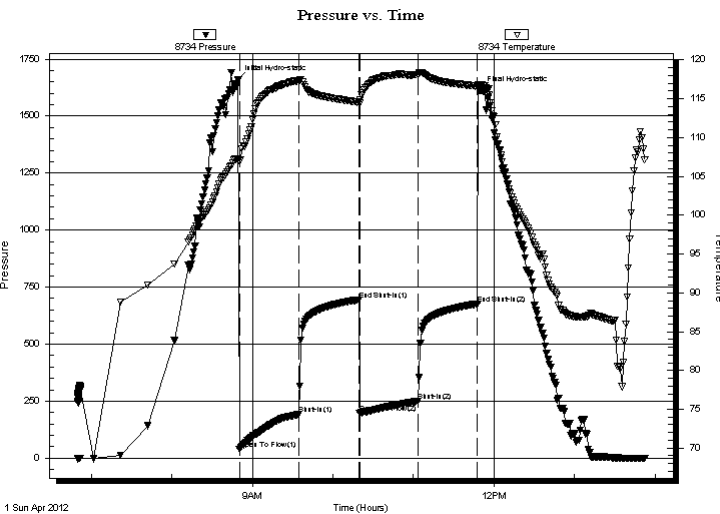
Start Time: 06:49:48

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	VSO CWM 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

Tengasco, Inc.

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

34-12s-21w Trego, KS

Schoenthaler #5

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 #: 6669 Inside

Press @ Run Depth: psig @ 3475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.01

Last Calib.:

1899.12.30

Start Time: 06:49:42

End Time:

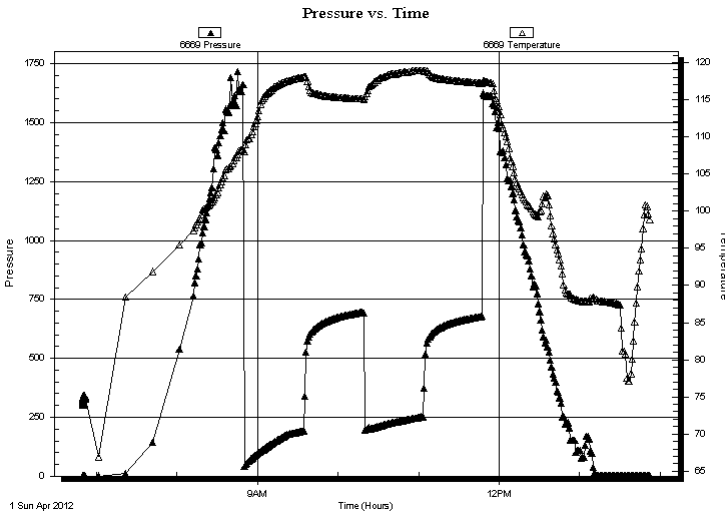
13:52:11

Time On Btm:

Time Off Btm:

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
308.00	MW 95%W, 5%M	1.51
30.00	V SOCWM 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

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 bbl
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

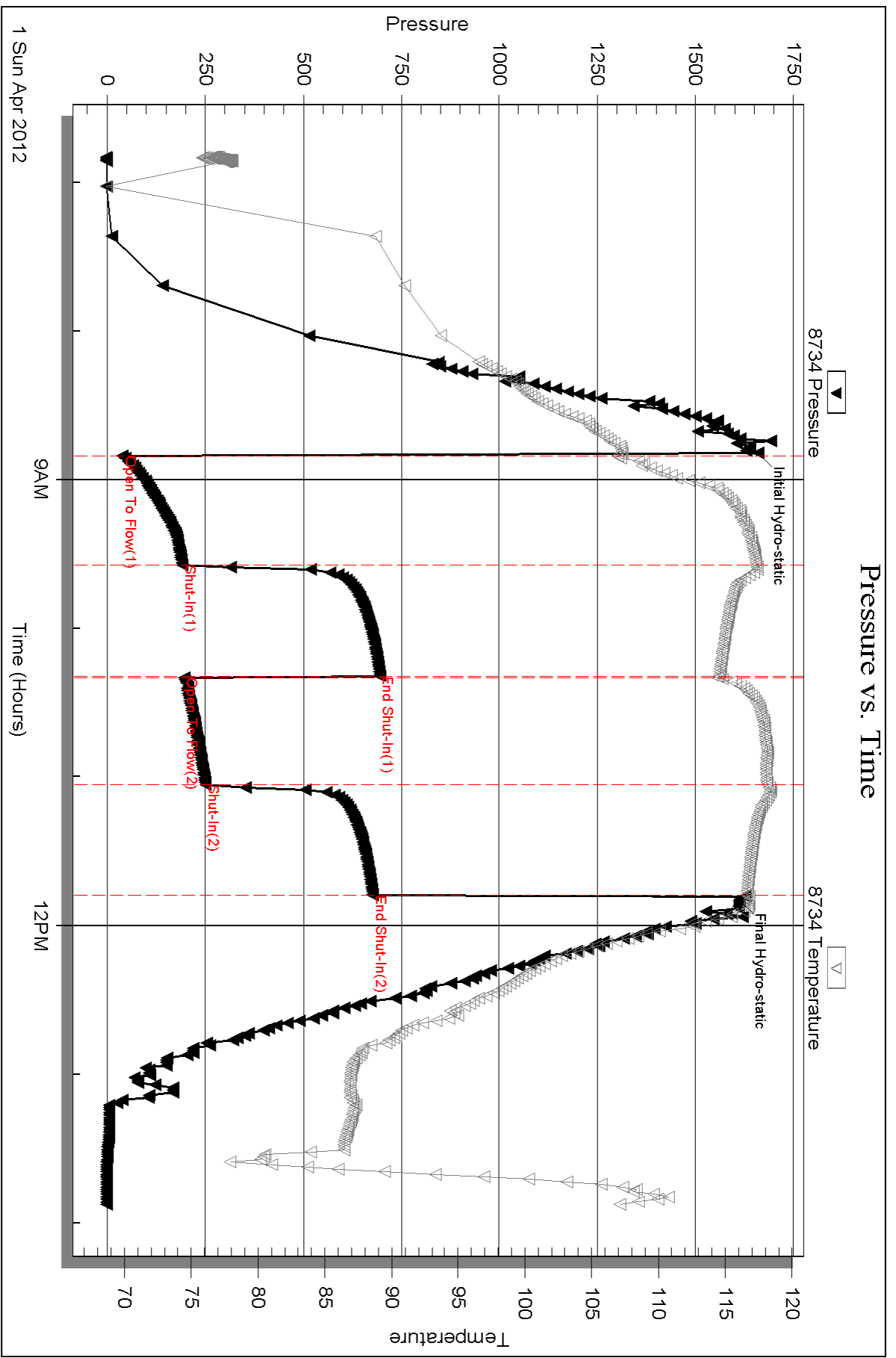
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



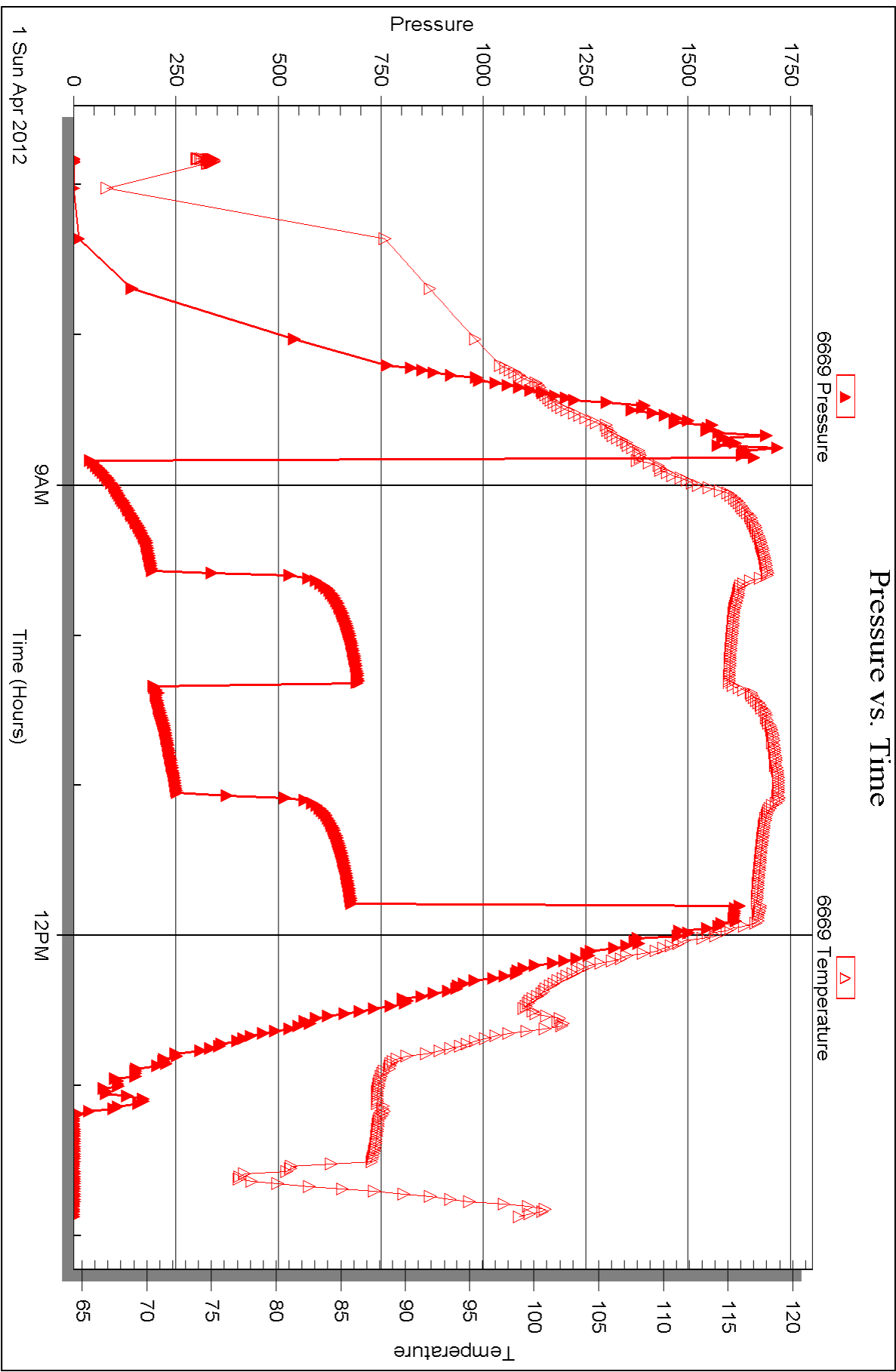
Serial #: 6669

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

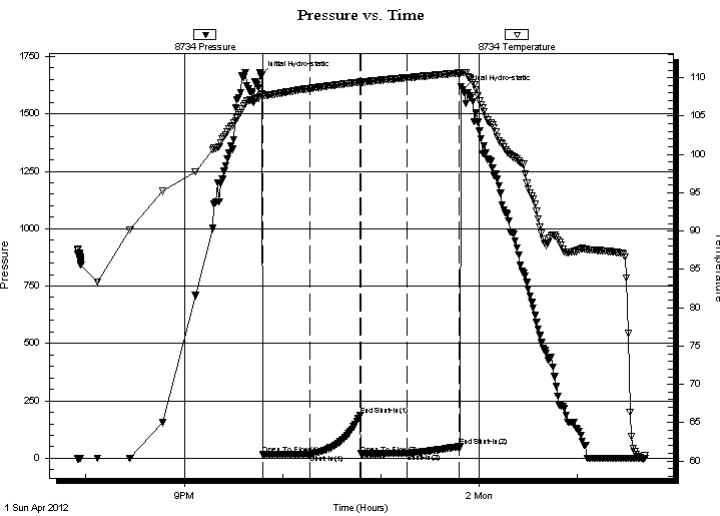
Last Calib.: 2012.04.02

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
			Total Volume: 46.37 bbl	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

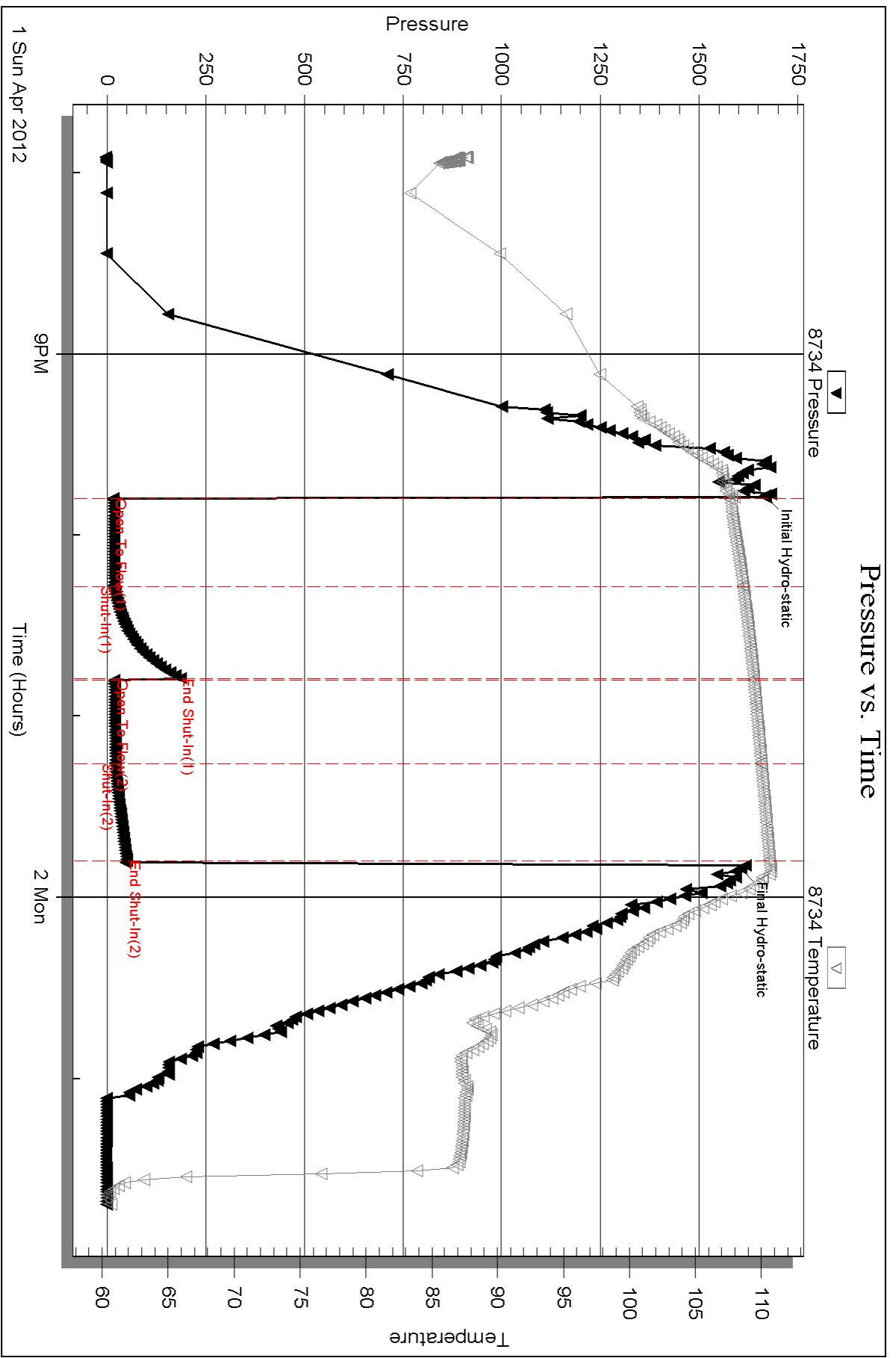
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



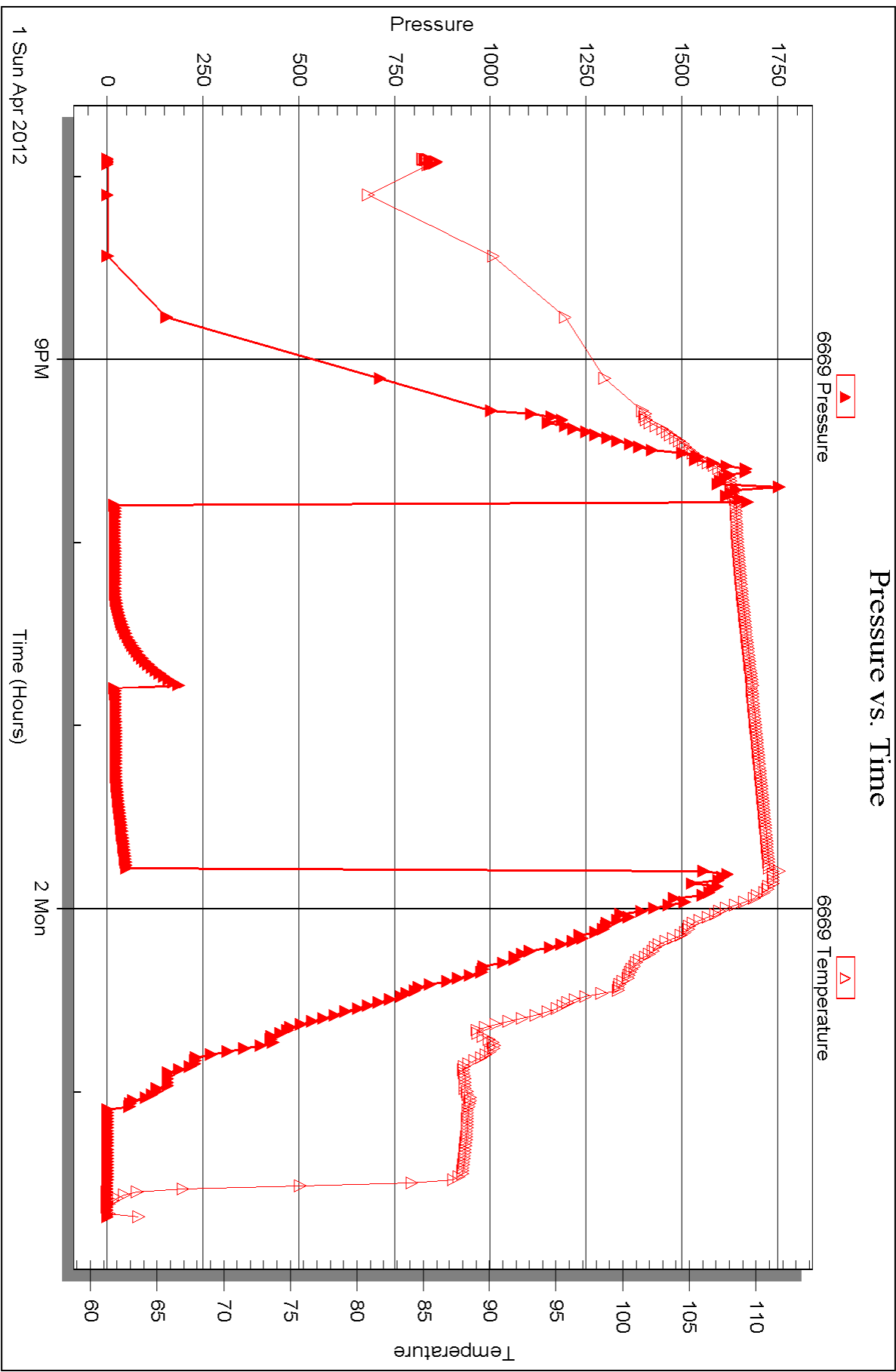
Serial #: 6669

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

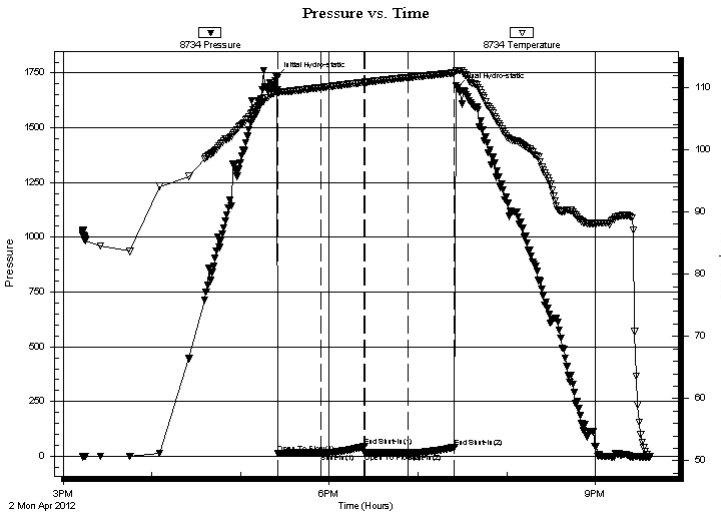
TEST COMMENT: IFP - sur blow - died 2 min

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
			Total Volume: 48.12 bbl	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
------------------	-------------	------------	----------	------------	----------------

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:

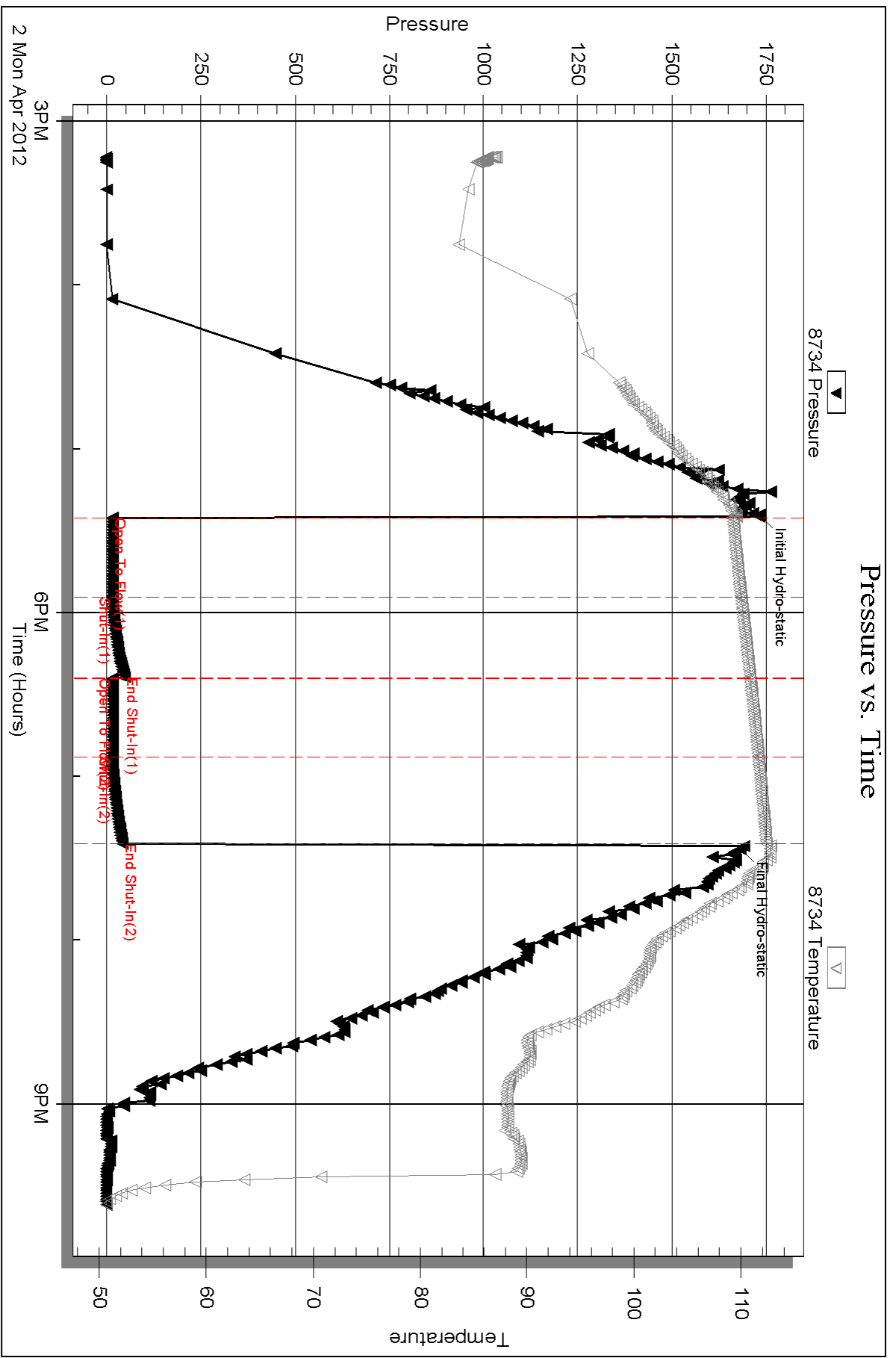
Recovery Comments:

Serial #: 8734

Outside Tengasco, Inc.

Schoenthaler #5

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45703

Printed: 2012.04.05 @ 13:35:42

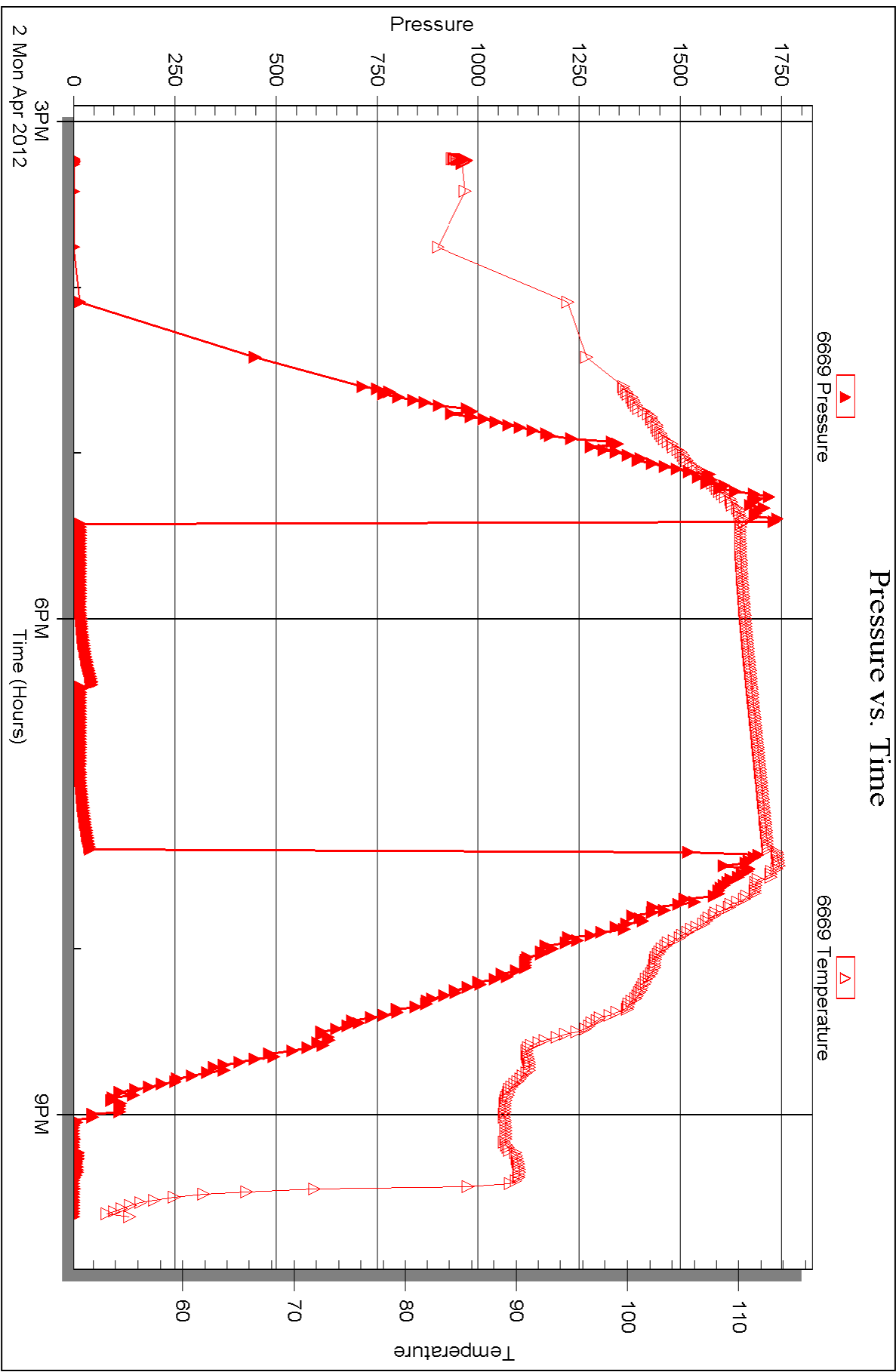
Serial #: 6669

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

ATTN: Clayton Erickson

Job Ticket: 45704

DST#: 4

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

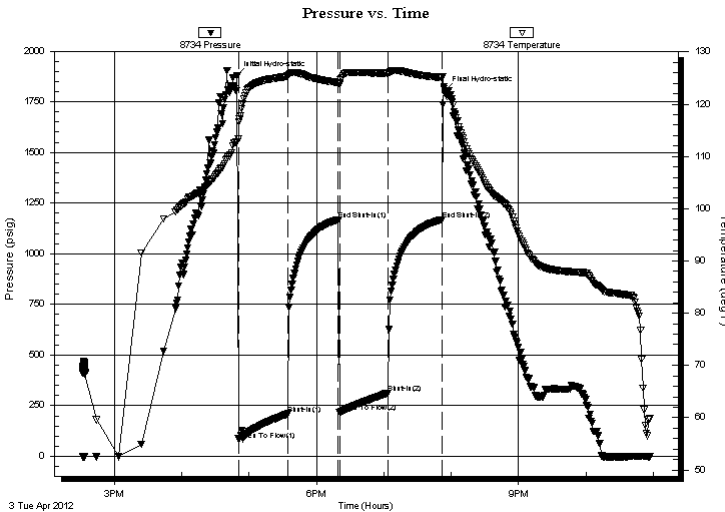
End Time: 22:56:30

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
------------------	-------------	------------	----------	------------	----------------

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

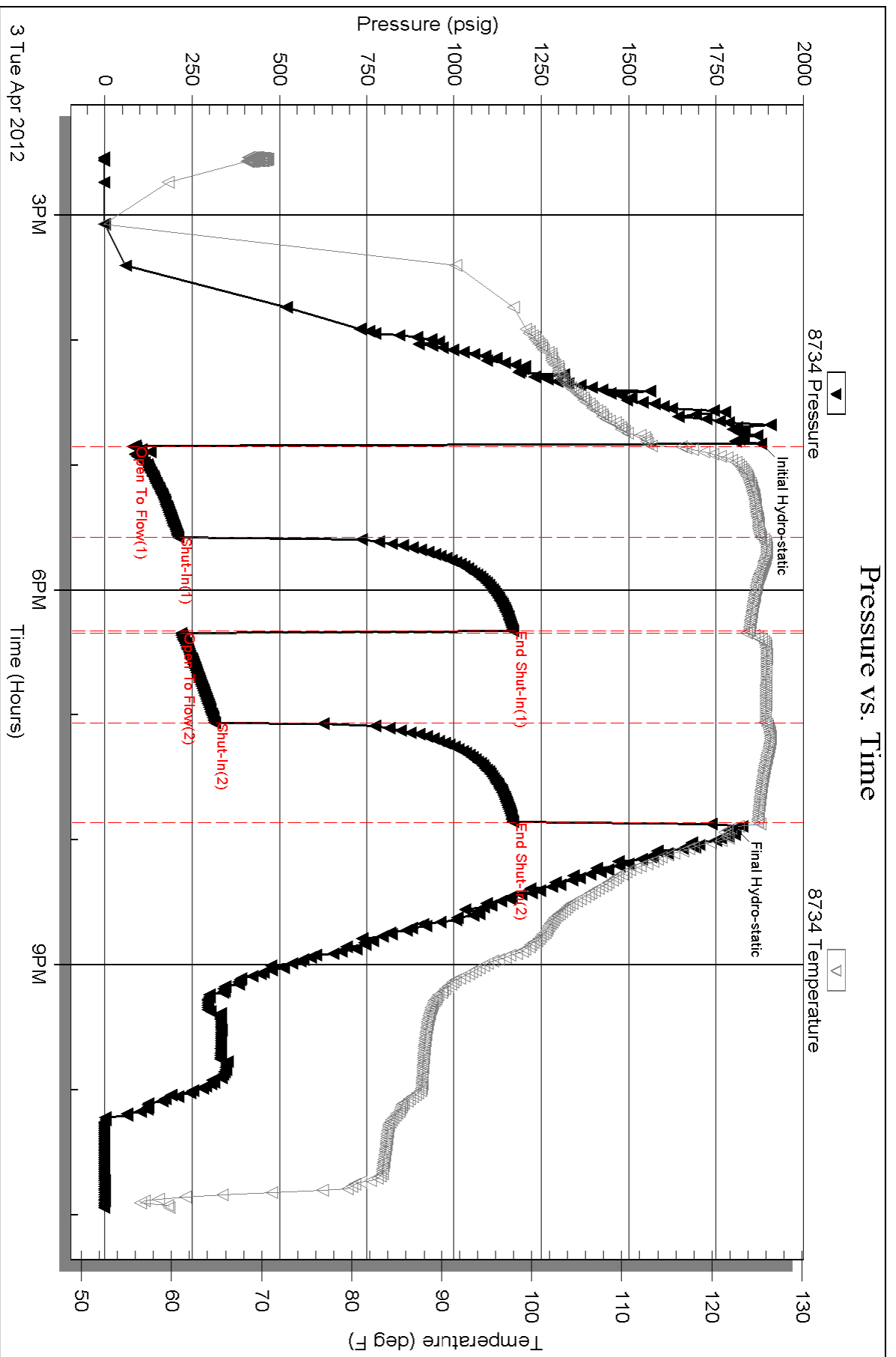
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



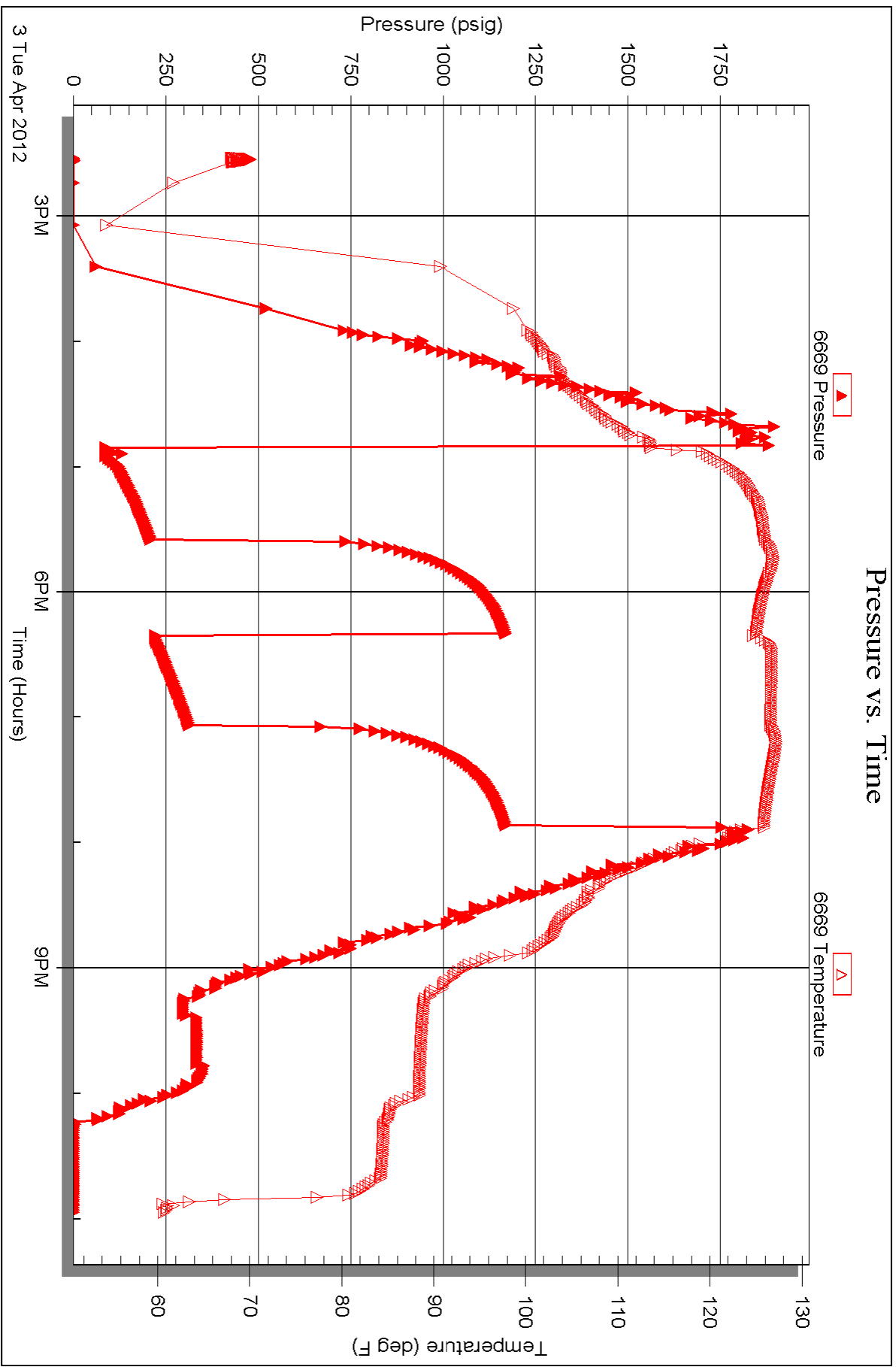
Serial #: 6669

Inside

Tengasco, Inc.

Schoenthaler #5

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
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>GIP</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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
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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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 05 2012

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. Clafter 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
 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.



TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 05 2012

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
FST- 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

Approved By _____ Our Representative Brian Farber
 Triobite Testing Inc. shall not be liable for damaged of 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, tool's lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

ALLIED OIL & GAS SERVICES, LLC 056369

Federal Tax I.D.# 20-5975804

TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell, KS.

DATE <u>3-28-12</u>	SEC <u>34</u>	TWP. <u>12</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 PM</u>	JOB FINISH <u>12:00 PM</u>
SCHROEDT/HOLER LEASE	WELL# <u>5</u>	LOCATION <u>Riga Exit + I-70 34 S</u>			COUNTY <u>Trego</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>4E</u>			

CONTRACTOR ~~DRG. Rig~~ H-2 #3

TYPE OF JOB Cement SURFACE

HOLE SIZE 12 1/4 T.D. 268'

CASING SIZE 8 5/8 DEPTH 265'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. 300# MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 16.10 BBL

EQUIPMENT

OWNER

CEMENT

AMOUNT ORDERED 170 sx Comm.

3% CC

2% GEL

COMMON 170 @ 16.25 2762.50

POZMIX @

GEL 3 @ 21.25 63.75

CHLORIDE 6 @ 56.20 337.20

ASC @

HANDLING 179 Total SX @ 2.25 402.75

MILEAGE 45 Ten Mile @ 8.86.05

TOTAL 4464.25

PUMP TRUCK CEMENTER Gilbert G.

417 HELPER Woody O. Robert V.

BULK TRUCK

410 DRIVER Ron B.

BULK TRUCK

DRIVER

REMARKS:

Ran 6 New Joints of 8 5/8 23 # Assy,
Set @ 268' Received Circulation,
Cement w/ 170 sx comm 3+2,
Displaced 16 BBL H₂O + Shut-IN
@ 300 #, Cement Did
CIRCULATE TO SURFACE
THANKS

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 45 HV ME @ 7.00 315.00

MANIFOLD 45 LV ME @ 4.00 180.00

CHARGE TO: Texasco Inc.

STREET

CITY STATE ZIP

TOTAL 1620.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any) 215.93

TOTAL CHARGES 6084.25

DISCOUNT 20/70 1907.37 IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE Keith Karlin

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

ALLIED OIL & GAS SERVICES, LLC 056944

Federal Tax I.D.# 20-5975804

MIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

R1/2011

DATE <u>4-20-12</u>	SEC <u>34</u>	TWP <u>12 S</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30</u>	JOB FINISH <u>12:00</u>
LEASE <u>Schwenk water</u>	WELL# <u>5</u>	LOCATION <u>Riga 34 S E ind B</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR WB

TYPE OF JOB Well Coffer

HOLE SIZE _____ T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE 2 3/8 DEPTH 1606

DRILL PIPE _____ DEPTH _____

TOOL Peak Coffer DEPTH 1609

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 5 bbl

OWNER

CEMENT

AMOUNT ORDERED 300 gal 60/46
42.6 gal 2 3/4 flow

COMMON <u>180</u>	<u>132</u>	@ <u>16.25</u>	<u>2145.00</u>
POZMIX <u>10</u>	<u>180</u>	@ <u>8.36</u>	<u>746.00</u>
GEL <u>10</u>		@ <u>21.25</u>	<u>212.50</u>
CHLORIDE		@	
ASC		@	
<u>flow 2 3/4</u>	<u>46</u>	@ <u>2.70</u>	<u>124.20</u>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING <u>313</u>		@ <u>2.25</u>	<u>704.25</u>
MILEAGE <u>3200 18,600</u>	<u>1.1</u>		<u>1721.50</u>
TOTAL			<u>5655.45</u>

REMARKS:

1000 gal tubing, open PL. pipe 700 gal cement
with 1/2 gal 2 3/8 tubing, annular
WB 220 gal 60/46 PL. pipe
displaced 2 bbl, 2 3/4 PL. pipe 740
ran 5 hrs, cement discharge, 400 gal clean
Cement D.D. circled to surface
Thank!

SERVICE

DEPTH OF JOB	<u>1606'</u>		
PUMPTRUCK CHARGE			<u>1925.00</u>
EXTRA FOOTAGE		@	
MILEAGE MILV <u>30</u>		@ <u>7.00</u>	<u>390.00</u>
MANIFOLD		@	
<u>MILV 30</u>		@ <u>4.00</u>	<u>200.00</u>
		@	

TOTAL 2475.00

CHARGE TO: _____

STREET Tengasco

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL 0

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)	<u>219.61</u>
TOTAL CHARGES	<u>8130.45</u>
DISCOUNT <u>3470</u>	<u>2761.84</u> IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Layphlaque

ALLIED OIL & GAS SERVICES, LLC 056377

Federal Tax I.D.# 20-5975804

MIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell Ks.

DATE <u>4-4-12</u>	SEC. <u>34</u>	TWP. <u>12</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Schoen Thaler</u>				LOCATION <u>Riga Exit @ I-90 3/4 S 1/4 E</u>	COUNTY <u>Trigg</u>	STATE <u>KANSAS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>H2 Dala Rig # 3</u>	OWNER
TYPE OF JOB <u>Production string</u>	
HOLESIZE <u>7 7/8</u>	CEMENT
CASING SIZE <u>5 1/2</u>	AMOUNT ORDERED <u>180 SX Asc.</u>
DEPTH <u>3935</u>	<u>500 GAL WFR mud flush</u>
DRILL PIPE PORT COLLAR DEPTH <u>1611'</u>	COMMON _____ @ _____
TOOL AFU INSERT @ DEPTH <u>3895</u>	POZMIX _____ @ _____
PRES. MAX _____ MINIMUM _____	GEL _____ @ _____
MEAS. LINE _____ SHOE JOINT <u>39.50</u>	CHLORIDE _____ @ _____
CEMENT LEFT IN CSG. <u>39.50</u>	ASC <u>180</u> @ <u>19.00</u> = <u>3420.00</u>
PERFS. _____	mud FLUSH <u>500</u> @ <u>1.27</u> = <u>635.00</u>
DISPLACEMENT <u>95.20 / BBL</u>	HANDLING <u>180</u> @ <u>2.25</u> = <u>405.00</u>
EQUIPMENT	MILEAGE <u>45 x 180 x .11</u> = <u>891.00</u>

PUMP TRUCK CEMENTER <u>Akan G.</u>
<u>417</u> HELPER <u>Woody O.</u>
BULK TRUCK
<u>410</u> DRIVER <u>Chas G.</u>
BULK TRUCK
DRIVER

REMARKS: PORT COLLAR ON # 56

Ran 94 New JOINTS OF 14 # 5 1/2 CSG.
Set @ 3935' Received Circulation
W/ Pump Flush, Cement w/ 150 SX ASC.
Clear-Line Release / TRP, +
Displace 95 1/4 BBL H2 @ LAND
Plug @ 1500 #. Release Pressure
AFU - FLOAT (HOLD)
30SX @ Rathole
THANK'S

TOTAL	<u>5351.00</u>
-------	----------------

SERVICE

DEPTH OF JOB <u>3935</u>	
PUMP TRUCK CHARGE	<u>2225.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE <u>45 H 45</u>	@ <u>7.00</u> = <u>315.00</u>
MANIFOLD <u>Head 1</u>	@ <u>300.00</u> = <u>300.00</u>
<u>Ldv - M 45</u>	@ <u>4.00</u> = <u>180.00</u>
TOTAL	<u>2720.00</u>

CHARGE TO: Tengasco Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

W. 1 Guide Shoe		<u>240.00</u>
W. 1 AFU INSERT	@	<u>286.00</u>
W. 5 Centralizers	@ <u>49.00</u>	<u>245.00</u>
W. 1 Basket	@	<u>337.00</u>
IR. 1 - PORT COLLAR	@	<u>2600.00</u>
IR. 1 - T.R.P.	@	<u>73.00</u>
TOTAL		<u>3781.00</u>

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) <u>275.74</u>
TOTAL CHARGES <u>11852.00</u>
DISCOUNT <u>10/10 3063.40</u> IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Karl Karlis

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Schoenthaler #5
Location: N2 SW SW SW Sec34 T12S R21W
License Number: _____ Region: Trego County, KS
Spud Date: 3/28/2012 Drilling Completed: 4/4/2012
Surface Coordinates: 1700' FSL & 1320' FEL

Bottom Hole
Coordinates:
Ground Elevation (ft): 2195 K.B. Elevation (ft): 2204
Logged Interval (ft): 3100 To: TD Total Depth (ft): 3933
Formation: ARBUCKLE
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.co n

OPERATOR

Company: TENGASCO, INC.
Address: 1327 Noose Rd.
Hays, KS. 67601

GEOLOGIST

Name: Mike Bair
Company: Basin Resources L.L.C.
Address: Longmont, CO.

FORMATION TOPS

FORMATION	LOG	SAMPLE
Anhydrite	1572(+632)	1578(+626)
Base Anhy	1617(+587)	1617(+587)
TOPEKA	3224(-1020)	3223(-1019)
HEEBNER	3446(-1242)	3446(-1242)
TORONTO	3467(-1263)	3464(-1260)
LANSING	3482(-1278)	3480(-1276)
BKC	3720(-1516)	3717(-1513)
MARMATON	3756(-1552)	3748(-1544)
MARMATON Chert	3787(-1583)	3783(-1579)
ARBUCKLE	3850(-1646)	3845(-1641)
TD	3836(-1632)	3833(-1632)

DSTs

DST #1 3472-3525; 45-45-45-45; Hydro: 1660-1612 IFP: 38-192 ISIP: 695 FFP: 196-251 FSIP: 676; Rec: 120' GIP 2' oil 60' 50%o 50%m 30' 5%o 20%w 75%m 308' 95%w 5%m; Grav: 37 RW: .068@80F Chl- 115,000ppm; IF: BOB 19min ISI: surface dead in 17min FF: BOB 17min FSI: 1" dead in 35min

DST #2 3527-3558; 30-30-30-30; Hydro: 1668-1605 IFP: 16-18 ISIP: 186 FFP: 19-21 FSIP: 50; Rec: 3' oil spotted mud; IF: surface dead in 14min ISI: dead FF: dead FSI: dead

DST #3 3646-3671; 30-30-30-30; Hydro: 1732-1682; IFP: 15-15 ISIP: 47 FFP: 15-16 FSIP: 42; Rec: 1' mud; IF: surface dead in 2min ISI: dead FF: dead FSI: dead

DST #4 3846-3853; 45-45-45-45; Hydro: 1879-1806 IFP: 81-210 ISIP: 1169 FFP: 219-314 FSIP: 1169; Rec: 180' GIP 155' 95%o 5%m 500' reversed out oil 120' 10%g 45%o 45%m; Grav: 37; IF: BOB 7min ISI: 2 1/2" dead in 37min FF: BOB 8min FSI: dead








































































Comments

Production casing was run to further test the Arbuckle Formation.
























ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

ACCESSORIES

MINERAL	 Gyp	FOSSIL	 Ostra	 Sltstrg
 Anhy	 Hvymin	 Algae	 Pelec	 Ssstrg
 Arggrn	 Kaol	 Amph	 Pellet	TEXTURE
 Arg	 Marl	 Belm	 Pisolite	 Boundst
 Bent	 Minxl	 Bioclst	 Plant	 Chalky
 Bit	 Nodule	 Brach	 Strom	 Cryxln
 Brecfrag	 Phos	 Bryozoa	STRINGER	 Earthy
 Calc	 Pyr	 Cephal	 Anhy	 Finexln
 Carb	 Salt	 Coral	 Arg	 Grainst
 Chtdk	 Sandy	 Crin	 Bent	 Lithogr
 Chtlt	 Silt	 Echin	 Coal	 Microxln
 Dol	 Sil	 Fish	 Dol	 Mudst
 Feldspar	 Sulphur	 Foram	 Gyp	 Packst
 Ferrpel	 Tuff	 Fossil	 Ls	 Wackest
 Ferr		 Gastro	 Mrst	
 Glau		 Oolite		

OTHER SYMBOLS

POROSITY	 Vuggy	ROUNDING	 Spotted	EVENT
 Earthy	SORTING	 Rounded	 Ques	 Rft
 Fenest	 Well	 Subrnd	 Dead	 Sidewall
 Fracture	 Moderate	 Subang	INTERVAL	
 Inter	 Poor	 Angular	 Core	
 Moldic		OIL SHOW	 Dst	
 Organic		 Even		
 Pinpoint				

Curve Track 1

ROP (min/ft) _____

Gas (units) - - - - -

Remarks

TG (Units) _____

C1 (units)

C2 (units)

C3 (units)

C4 (units)

C5 (units)

Depth

Porosity Type

Lithology

Oil Shows

Geological Descriptions

ROP (min/ft) 10
Gas (units) 100

30

3050

3100

3150

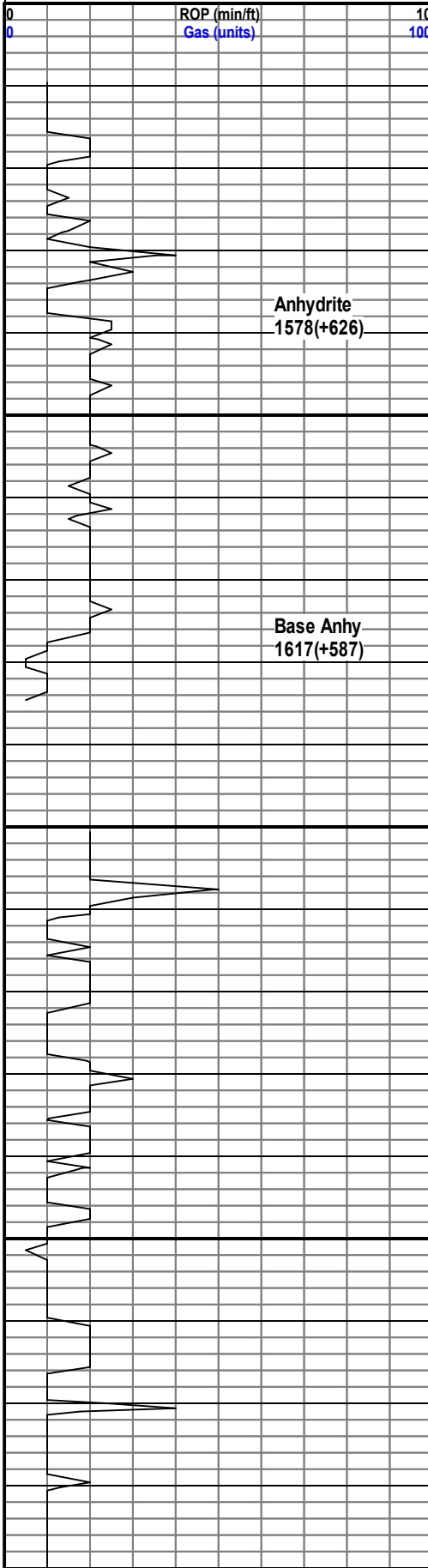
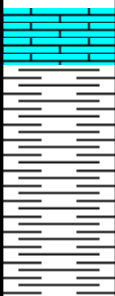
Anhydrite
1578(+626)

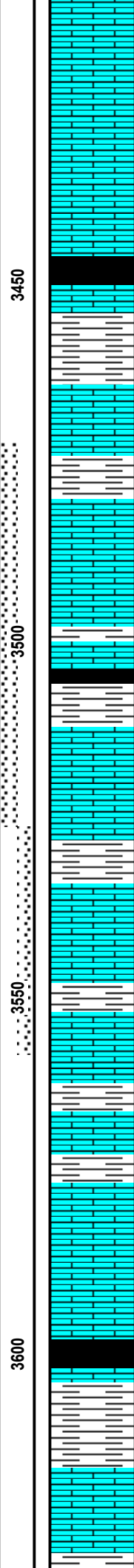
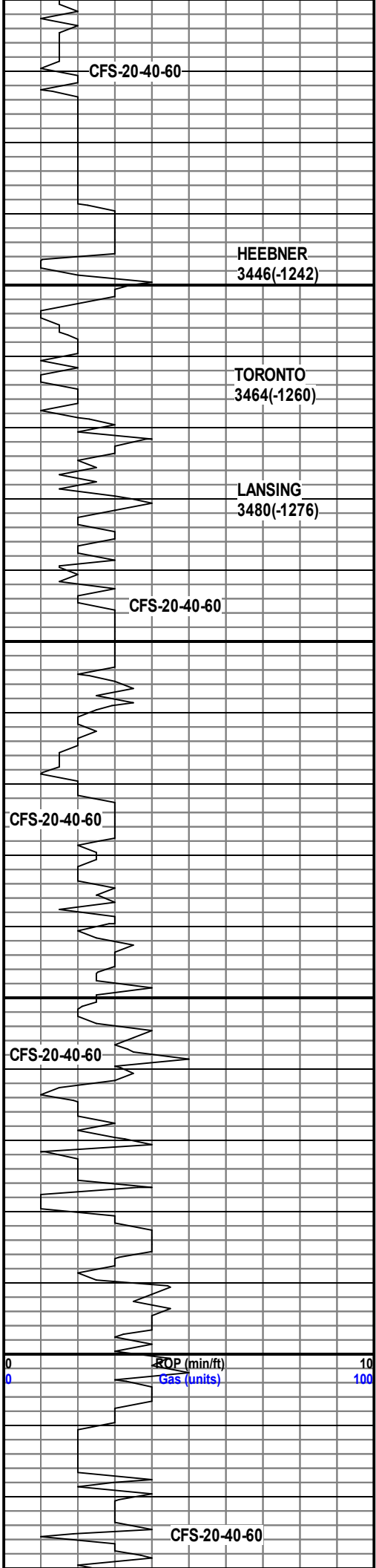
Base Anhy
1617(+587)

Vis: 29
Wt: 9.5
LCM-0

SH- grey, red/brwn w/ L.S.- crm, fn xtln, md-wk
stn, no vis por, no odor, no SFO

SH- grey





L.S.- crm, fn xtln, grn stn, pr PP por, no odor, no SFO, sli chlky

L.S.- crm-tan, fn xtln, grn stn, poss int xtln por, no odor, no SFO

L.S.- crm-brwn, fn xtln, pk-grn stn, no vis por, no odor, no SFO

SH- blk, carb

L.S.- wht-crm, fn xtln, grn stn, pr PP por, no odor, rare sat brwn oil stain, no SFO, chlky

SH- lt grey-bl/green

L.S.- wht-crm, fn xtln, grn stn, poss int xtln por, no odor, no SFO, chlky

L.S.- wht-crm, fn-micro xtln, ool grn stn, scat v pr int xtln por, rare int gran por, lt brwn oil stain, no odor, no SFO

L.S.- wht-crm, fn xtln, grn stn, pr int xtln-int gran por, fr odor, brwn sat oil stain, pr SFO, abnd wht-crm chrt, sli chlky

L.S.- crm, fn xtln, pk-grn stn, scat v pr int xtln por, no odor, rare brwn oil stain, no SFO w/ SH- grey-blk, red/brwn

L.S.- wht-crm, fn xtln, grn stn, fr-gd int gran por, gd odor, brwn oil stain, pr SFO, sli chlky

L.S.- crm, fn xtln, grn stn, fr int xtln por, gd odor, brwn sat oil stain, fr SFO

SH- grey, red

L.S.- crm, fn-micro xtln, grn stn, scat v pr int xtln por, no odor, rare blk oil stain, no SFO

L.S.- crm, fn xtln, pk stn, fr int xtln por, fr odor, brwn sat stain, pr SFO, sli chlky

L.S.- wht, fn xtln, grn stn, fr int gran por, fnt odor, lt brwn sat stain, v pr SFO

L.S.- wht-crm, fn xtln, grn stn, pr-fr int gran por w/ fr int xtln por, fnt odor, fr SFO

L.S.- wht-crm, fn-micro xtln, grn stn, scat pr int xtln-int gran por, fnt odor, blk oil stain, no SFO w/ SH- grey-dk grey

L.S.- wht-crm, fn-micro xtln, grn stn, pr int xtln por, scat vugs, v fnt odor, freq asph res, rare tarry oil

L.S.- crm-wht, fn xtln, grn stn, pr oomoldic por, scat vugs, v fnt odor, lt brwn oil stain, pr SFO, sli chlky

L.S.- wht-crm, micro-fn xtln, grn stn, scat vugs, v fnt odor, lt brwn oil stain, rare SFO, mostly barren, sli chlky, scat wht chrt

SH- grey-blk

L.S.- crm, fn xtln, pk stn, pr int xtln por, v fnt odor, brwn oil stain, no SFO, abnd wht-brwn chrt

SH- grey

-Drill time from 3440-3446 is not accurate, chart was changed as well as resetting the clock.

Mud check @ 3490'

-Vis: 48

-Wt: 9.0

-LCM: 1ppb

DST #1 3472-3525

45-45-45-45

Hydro: 1660-1612

IFP: 38-192 ISIP: 695

FFP: 196-251 FSIP: 676

Rec: 120' GIP

2' oil

60' 50%o 50%w

30' 5%o 20%w 75%w

308' 95%w 5%w

Grav: 37 RW: .068@80F

Chl- 115,000ppm

IF: BOB 19min

ISI: surface dead in 17min

FF: BOB 17min

FSI: 1" dead in 35min

Pipe strap @ 3525'- 3' long

Dev: 1 3/4 deg

DST #2 3527-3558 30-30-30-30

Hydro: 1668-1605

IFP: 16-18 ISIP: 186

FFP: 19-21 FSIP: 50

Rec: 3' oil spotted mud

IF: surface dead in 14min

ISI: dead

FF: dead FSI: dead

Mud Check @ 3525'

-Vis: 48

-Wt: 9.0

-LCM: 1ppb

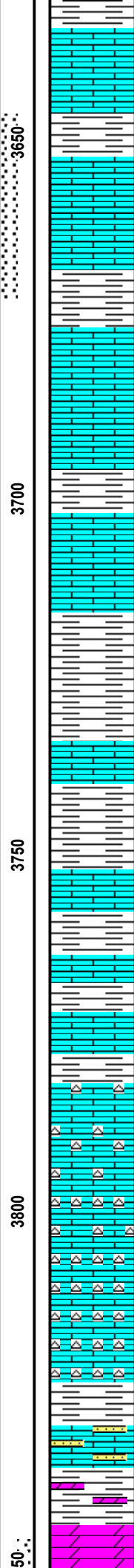
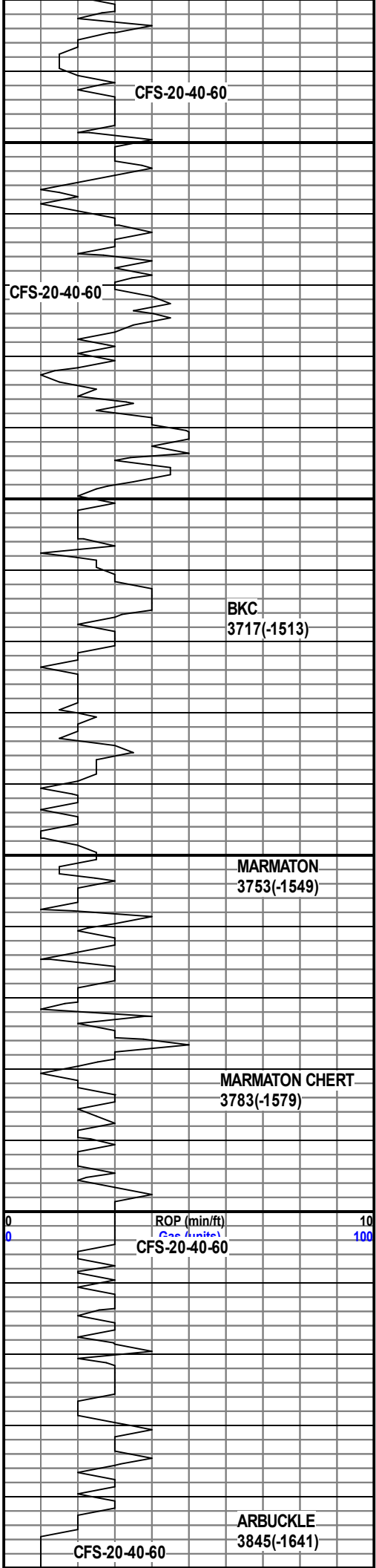
-WL: 7.2

-Vis: 44

-Wt: 9.0

-LCM: 2ppb

-WL: 8.4



SH-grey

L.S.- wht-frm, fn-micro xtln, grn stn, pr int xtln por, scat vugs, v fnt odor, blk oil stain, rare SFO

L.S.- frm, fn xtln, grn stn, no vis por, no odor, no SFO, scat frm chrt w/ SH- grey-grey/green

L.S.- frm, fn xtln, grn stn, pr int gran por w/ pr-fr int xtln por, fnt odor, v pr SFO

L.S.- frm-wht, fn xtln, ool grn stn, pr oomoldic por w/ pr-fr int xtln por, fr odor, fr SFO w/ SH- dk grey-blk

L.S.- wht, v fn-frm xtln, v pr int gran por, v fnt odor, fr show of dk brwn sticky oil

L.S.- wht-tan, fn xtln, grn stn, v pr int gran por, fr odor, pr show of sticky dk brwn oil, freq tarry res, chlky

SH- grey-dk grey

L.S.- frm-brwn, fn xtln, pk-grn stn, no vis por, no odor, no SFO

as above

SH- grey-dk grey, red/brwn

SH- red/brwn

SH- vari-color

L.S.- frm, fn-micro xtln, pk-grn stn, no vis por, no odor, no SFO, sli chlky

SH- vari-color w/ L.S.- frm-lav, lav is arg, fn xtln, wk-pk stn, no vis por, no odor, no SFO

L.S.- wht-frm, fn-micro xtln, pk-grn stn, no vis por, no odor, no SFO, sli chlky

as above w/ com wht-ornge chrt, no odor, rare dk brwn asph res

L.S.- wht-frm, chrt, fn xtln, fnly sucr, pr int xtln por, scat pr PP por in chrt, abnd wht-ornge chrt, v fnt odor, v pr SFO, sli chlky

as above no odor, no SFO, barren

as above w/ SH- grey, red/brwn

L.S.- wht-v lt grey, sandy, fn xtln, no vis por, no odor, no SFO w/ SH-red/brwn, grey-grey/green w/ scat Dolo- tan, v fn xtln, pr int xtln por, no SFO, spty brwn oil stain

Dolo- wht-frm, fn-med xtln, fr int xtln por, gd odor, brwn sat stain, fr-gd SFO

DST #3 3646-3671 30-30-30-30

Hydro: 1732-1682

IFP: 15-15 ISIP: 47

FFP: 15-16 FSIP: 42

Rec: 1' mud

IF: surface dead in 2min

ISI: dead

FF: dead FSI: dead

Vis: 54

Wt: 9.0

LCM: 1ppb

1 1000

Vis: 54

Wt: 9.2

LCM: 1ppb

WL: 7.2

DST #4 3846-3853

CFS-20-40-60

3900

50

TD
3933(-1632)

• Dolo- wht-crm, fn-med xtln, fr int xtln por, scat vugs, gd odor, gd SFO

as above, str odor, gd SFO

as above, gd odor, gd SFO, rare asph res

Dolo- wht, fn-med xtln, fr int xtln por, gd odor, fr SFO, freq asph res, sli chlky, com crm-ylw/orng chrt, increase in barren dolo

as above, gd odor, pr SFO, less chrt, mostly barren

Dolo- wht, fn-med xtln, fr int xtln por, fr odor, v pr SFO, com blk asph res, sli chlky, mostly barren

Dolo- wht-crm, fn xtln, pr int xtln por, fnt odor, no SFO

45-45-45-45
Hydro: 1879-1806
IFP: 81-210 ISIP: 1169
FFP: 219-314 FSIP: 1169
Rec: 180' GIP
155' 95%o 5%
500' reversed out oil
120' 10%g 45%o 45%
Grav: 37
IF: BOB 7min ISI: 2 1/2" dead
in 37min
FF: BOB 8min FSI: dead