



KANSAS CORPORATION COMMISSION 1146201
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

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: _____



1146201

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6980

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-28-13	21	13	20	ELLIS	KANSAS		9:30pm

Location ELLIS ST TO FOREGROUND RD - Y45 - E/TNTO

Lease SCHUMACHER	Well No. #2	Owner CLA-MAR OIL
Contractor ROYAL #1		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job SURFACE		
Hole Size 12 1/4"	T.D. 222'	Charge To CLA-MAR OIL
Csg. 8 5/8"	Depth 222'	Street P.O. Box 1197
Tbg. Size	Depth	City HAYS State KS, 67601
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint 15'	Cement Amount Ordered 150 csm - 3cc - 2% - 2% - 2%
Meas Line	Displace 13 BBLs	

EQUIPMENT

Pumptrk #15 No. Cementer		Common
Helper NICK W.		Poz. Mix
Bulktrk #12 No. Driver		Gel.
Driver LOUDET W.		Calcium
Bulktrk DU No. Driver		
Driver GISCO A.		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

CEMENT DID CIRCULATE

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge

Mileage

THANK YOU!

X Signature Doug Budz

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6863

Date	6-3-13	Sec.	21	Twp.	13	Range	20	County	Ellis	State	KS	On Location		Finish	12:00pm
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Location *Ellis, S to Fairgrounds Rd, 1/4 S, E12*

Lease	<i>Schumacher</i>	Well No.	<i>2</i>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<i>Royal #1</i>			Charge To	<i>Clay - Mar</i>
Type Job	<i>long string</i>	T.D.	<i>3930</i>	Street	
Hole Size	<i>7 7/8</i>	Depth	<i>3911.25</i>	City	State
Csg.	<i>5 1/2 14"</i>	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered	<i>180sx Com 10% salt</i>
Tool		Depth			
Cement Left in Csg.	<i>21.45</i>	Shoe Joint	<i>21.45</i>		
Meas Line		Displace	<i>95661</i>		

EQUIPMENT

Pumptrk	<i>16</i>	No.	Cementer		Common
			Helper	<i>CISCO</i>	Poz. Mix
Bulktrk	<i>1</i>	No.	Driver		Gel.
			Driver	<i>Lenny W.</i>	Calcium
Bulktrk	<i>P4</i>	No.	Driver		
			Driver	<i>TRAVIS</i>	

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	<i>305x</i>
Mouse Hole	<i>15sx</i>
Centralizers	<i>1, 4, 7, 10, 56, 94</i>
Baskets	<i>56</i>
D/V or Port Collar	<i>57</i>
<i>pipe on bottom Break circulation pump 500gal</i>	
<i>Mud CLR 48 with Ten 661 fw behind it. plug</i>	
<i>Rat hole with 30sx and mouse hole with</i>	
<i>15sx hooked to 5 1/2 mixed 135sx Com 10%</i>	
<i>salt shut down washed pump and lins. Released</i>	
<i>plug displaced with 95661 fw plug landed and</i>	
<i>held</i>	
<i>lift presher 250psi</i>	
<i>plug landed at 1350psi</i>	

FLOAT EQUIPMENT

Guide Shoe	<i>1</i>
Centralizer	<i>8 Turbos</i>
Baskets	<i>1</i>
AFU Inserts	<i>1</i>
Float Shoe	
Latch Down	
Port collar	<i>1</i>

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6927

Date	6-13-13	Sec.	21	Twp.	13	Range	20	County	Ellis	State	KS	On Location	8:30 AM	Finish	
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Lease Schumacker Location Ellis 1 1/2 S E117C

Well No. 2 Owner To Quality Oilwell Cementing, Inc.

Contractor You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job port collar Charge To ClasMar

Hole Size T.D. Street

Csg. 5 1/2 Depth City State

Tbg. Size 2 Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered 230 Q mdc

Meas Line Displace 4.5 DBL 1/4 flow seal

EQUIPMENT Common 150

Pumptrk 5 No. Cementer Mike Poz. Mix USol 150 SWS

Bulktrk 8 No. Driver Brett Gel.

Bulktrk pu No. Driver Dev. of L Calcium

JOB SERVICES & REMARKS Hulls

Remarks: Salt

Rat Hole Flowseal 62#

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar 1577 Sand

testal tool to 800 Handling 250

initial 150 SWS cement Mileage

did Circulate Shut tool

washed clean Run 5 Spins

washed clean Pressed down

Float Equipment

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge port collar

Mileage 18

Signature Tom Beer Tax

Discount

Total Charge



DRILL STEM TEST REPORT

Prepared For: **Cla-Mar Oil Company**

PO Box 1197
Hays KS 67601-1197

ATTN: Jim Clark

Schumacher #2

21-13s-20w Ellis,KS

Start Date: 2013.06.01 @ 06:40:38

End Date: 2013.06.01 @ 11:25:47

Job Ticket #: 52086 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.05 @ 14:56:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cla-Mar Oil Company
 PO Box 1197
 Hays KS 67601-1197
 ATTN: Jim Clark

21-13s-20w Ellis, KS
Schumacher #2
 Job Ticket: 52086 **DST#: 1**
 Test Start: 2013.06.01 @ 06:40:38

GENERAL INFORMATION:

Formation: **LKC H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:09:03
 Time Test Ended: 11:25:47
 Interval: **3635.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2215.00 ft (KB)
 2210.00 ft (CF)
 KB to GR/CF: 5.00 ft

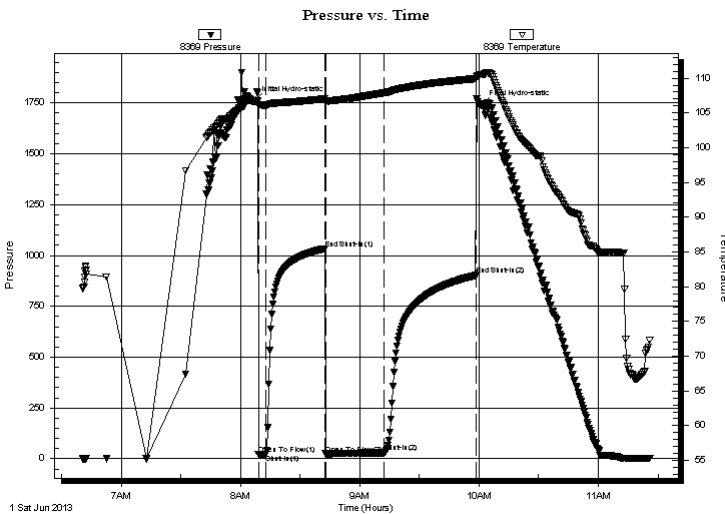
Serial #: 8369

Inside

Press @ Run Depth: 29.56 psig @ 3649.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.01 End Date: 2013.06.01 Last Calib.: 2013.06.01
 Start Time: 06:40:38 End Time: 11:25:47 Time On Btm: 2013.06.01 @ 08:07:18
 Time Off Btm: 2013.06.01 @ 10:01:33

TEST COMMENT: 3-IFP-surface bl
 30-ISIP-no bl
 30-FFP-surface to 1/16" bl
 45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.16	106.69	Initial Hydro-static
2	21.61	106.06	Open To Flow (1)
6	23.60	106.12	Shut-In(1)
35	1033.03	107.03	End Shut-In(1)
36	24.05	106.74	Open To Flow (2)
65	29.56	107.88	Shut-In(2)
111	901.66	109.93	End Shut-In(2)
115	1739.79	110.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w/show of oil	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cla-Mar Oil Company
PO Box 1197
Hays KS 67601-1197
ATTN: Jim Clark

21-13s-20w Ellis,KS
Schumacher #2
Job Ticket: 52086 **DST#: 1**
Test Start: 2013.06.01 @ 06:40:38

Tool Information

Drill Pipe:	Length: 3646.00 ft	Diameter: 3.80 inches	Volume: 51.14 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: 80000.00 lb
			<u>Total Volume: 51.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	3635.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 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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Change Over Sub	1.00			3615.00	
Shut In Tool	5.00			3620.00	
Hydraulic tool	5.00			3625.00	
Packer	5.00			3630.00	21.00 Bottom Of Top Packer
Packer	5.00			3635.00	
Stubb	1.00			3636.00	
Perforations	13.00			3649.00	
Recorder	0.00	8369	Inside	3649.00	
Recorder	0.00	8700	Outside	3649.00	
Blank Spacing	33.00			3682.00	
Bullnose	3.00			3685.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cla-Mar Oil Company
PO Box 1197
Hays KS 67601-1197
ATTN: Jim Clark

21-13s-20w Ellis,KS
Schumacher #2
Job Ticket: 52086 **DST#: 1**
Test Start: 2013.06.01 @ 06:40:38

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

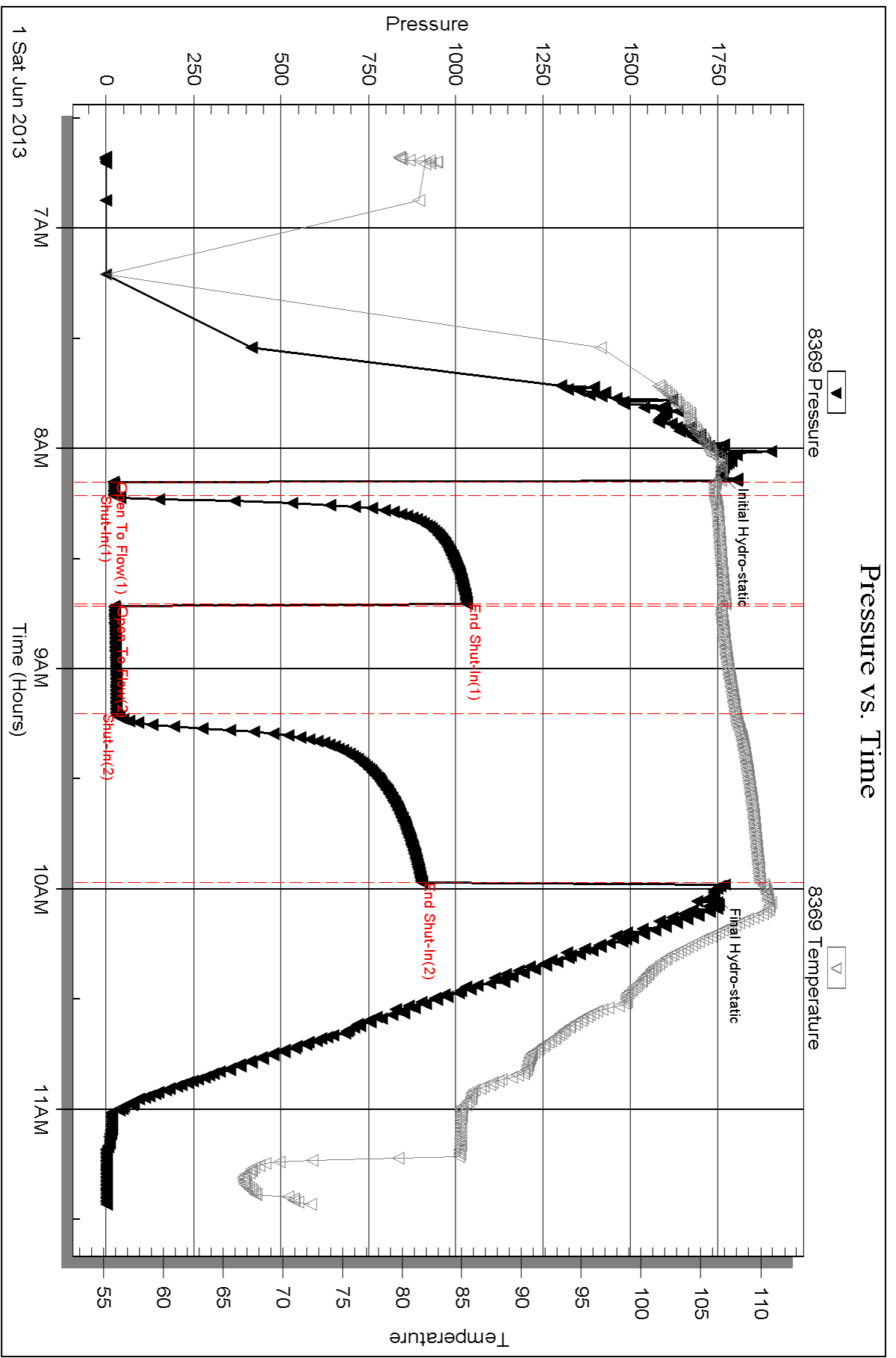
Length ft	Description	Volume bbl
15.00	Mud w/show of oil	0.210

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:

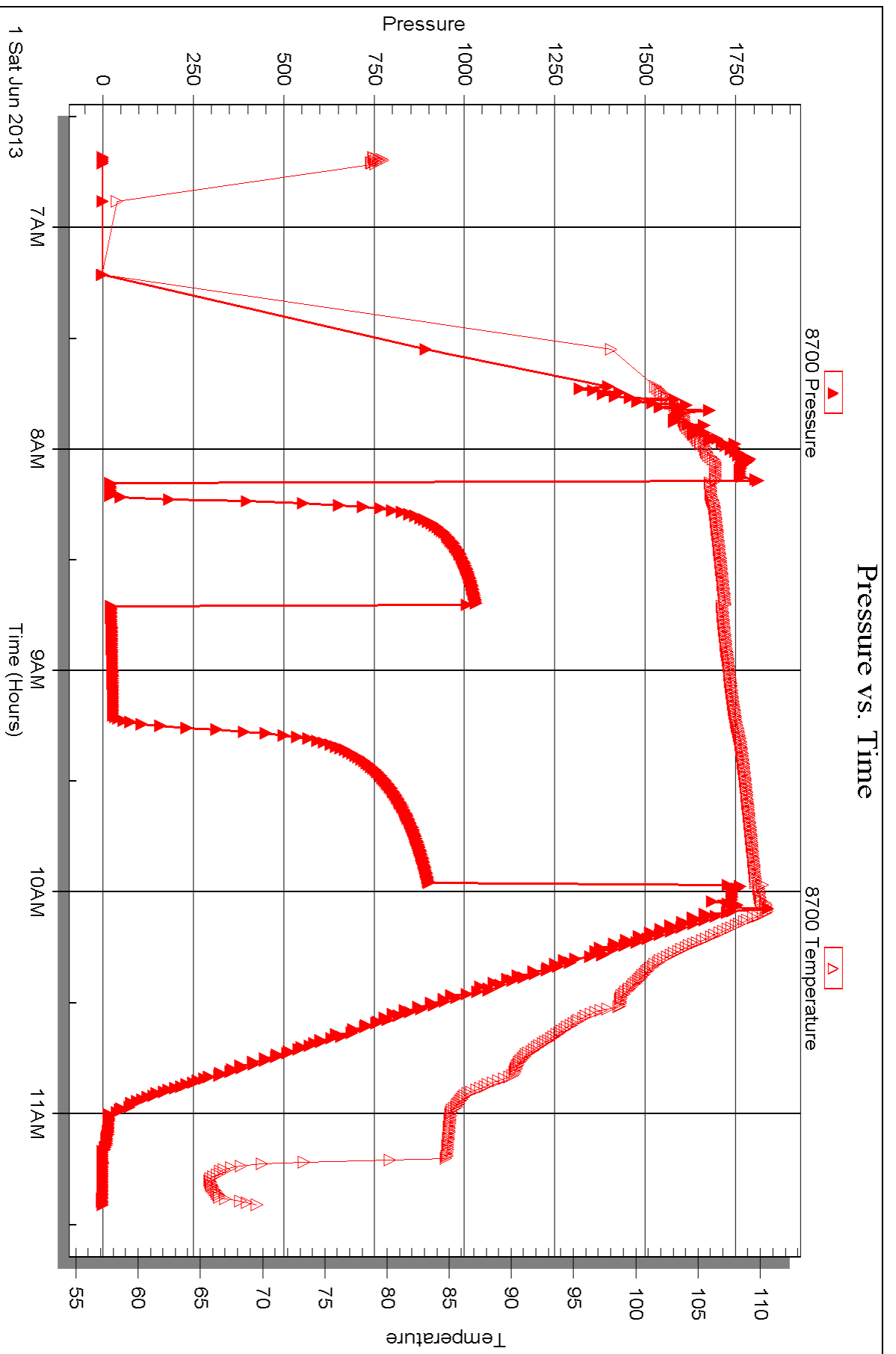


Serial #: 8700

Outside Cla-Mar Oil Company

Schumacher #2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cla-Mar Oil Company**

PO Box 1197
Hays KS 67601-1197

ATTN: Jim Clark

Schumacher #2

21-13s-20w Ellis,KS

Start Date: 2013.06.02 @ 05:40:38

End Date: 2013.06.02 @ 11:49:17

Job Ticket #: 52087 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.05 @ 14:56:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cla-Mar Oil Company
 PO Box 1197
 Hays KS 67601-1197
 ATTN: Jim Clark

21-13s-20w Ellis, KS
Schumacher #2
 Job Ticket: 52087 **DST#: 2**
 Test Start: 2013.06.02 @ 05:40:38

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:23:33
 Time Test Ended: 11:49:17
 Interval: **3808.00 ft (KB) To 3830.00 ft (KB) (TVD)**
 Total Depth: 3830.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2215.00 ft (KB)
 2210.00 ft (CF)
 KB to GR/CF: 5.00 ft

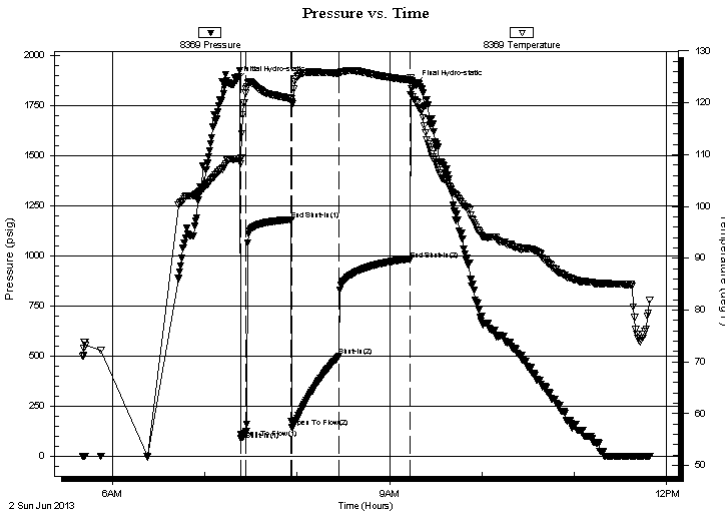
Serial #: 8369

Inside

Press @ Run Depth: 502.04 psig @ 3809.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.02 End Date: 2013.06.02 Last Calib.: 2013.06.02
 Start Time: 05:40:38 End Time: 11:49:17 Time On Btm: 2013.06.02 @ 07:20:48
 Time Off Btm: 2013.06.02 @ 09:16:18

TEST COMMENT: 3-IFP-strg bl in 1 min
 30-ISIP-6" bl bk
 30-FFP-strg bl thru-out
 45-FSIP-1/4" bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.00	109.17	Initial Hydro-static
3	92.03	109.29	Open To Flow (1)
6	124.66	122.75	Shut-In(1)
36	1181.29	120.84	End Shut-In(1)
36	144.42	119.95	Open To Flow (2)
67	502.04	125.70	Shut-In(2)
113	982.79	124.40	End Shut-In(2)
116	1852.67	120.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1030' GIP	0.00
1200.00	CO	16.83
124.00	SMGO 10%G5%M85%O	1.74

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cla-Mar Oil Company
 PO Box 1197
 Hays KS 67601-1197
 ATTN: Jim Clark

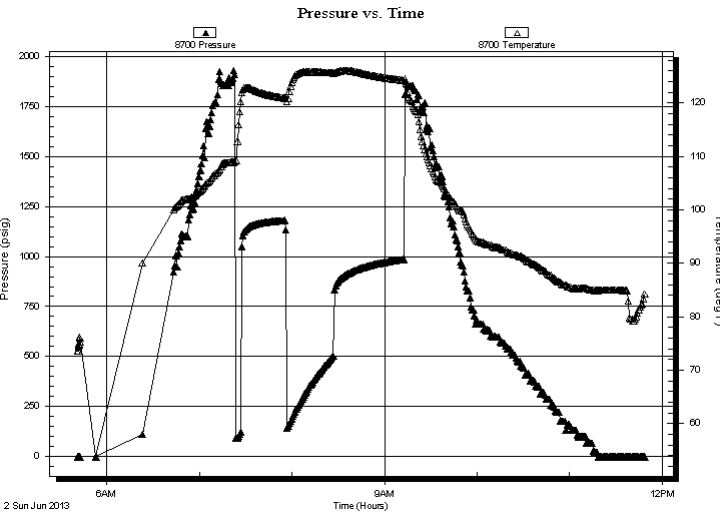
21-13s-20w Ellis, KS
Schumacher #2
 Job Ticket: 52087 **DST#: 2**
 Test Start: 2013.06.02 @ 05:40:38

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:23:33 Tester: Ray Schwager
 Time Test Ended: 11:49:17 Unit No: 42
Interval: 3808.00 ft (KB) To 3830.00 ft (KB) (TVD)
 Reference Elevations: 2215.00 ft (KB)
 Total Depth: 3830.00 ft (KB) (TVD) 2210.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8700 Outside
 Press @ RunDepth: psig @ 3809.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.02 End Date: 2013.06.02 Last Calib.: 2013.06.02
 Start Time: 05:41:08 End Time: 11:48:32 Time On Btm:
 Time Off Btm:

TEST COMMENT: 3-IFP-strg bl in 1 min
 30-ISIP-6" bl bk
 30-FFP-strg bl thru-out
 45-FSIP-1/4" bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1030' GIP	0.00
1200.00	CO	16.83
124.00	SMGO 10%G5%M85%O	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cla-Mar Oil Company
 PO Box 1197
 Hays KS 67601-1197
 ATTN: Jim Clark

21-13s-20w Ellis,KS
Schumacher #2
 Job Ticket: 52087 **DST#: 2**
 Test Start: 2013.06.02 @ 05:40:38

Tool Information

Drill Pipe:	Length: 3807.00 ft	Diameter: 3.80 inches	Volume: 53.40 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: 75000.00 lb
			<u>Total Volume: 53.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3808.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 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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Change Over Sub	1.00			3788.00	
Shut In Tool	5.00			3793.00	
Hydraulic tool	5.00			3798.00	
Packer	5.00			3803.00	21.00 Bottom Of Top Packer
Packer	5.00			3808.00	
Stubb	1.00			3809.00	
Recorder	0.00	8369	Inside	3809.00	
Recorder	0.00	8700	Outside	3809.00	
Perforations	18.00			3827.00	
Bullnose	3.00			3830.00	22.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cla-Mar Oil Company
PO Box 1197
Hays KS 67601-1197
ATTN: Jim Clark

21-13s-20w Ellis,KS
Schumacher #2
Job Ticket: 52087 **DST#: 2**
Test Start: 2013.06.02 @ 05:40:38

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1030' GIP	0.000
1200.00	CO	16.833
124.00	SMGO 10%G5%M85%O	1.739

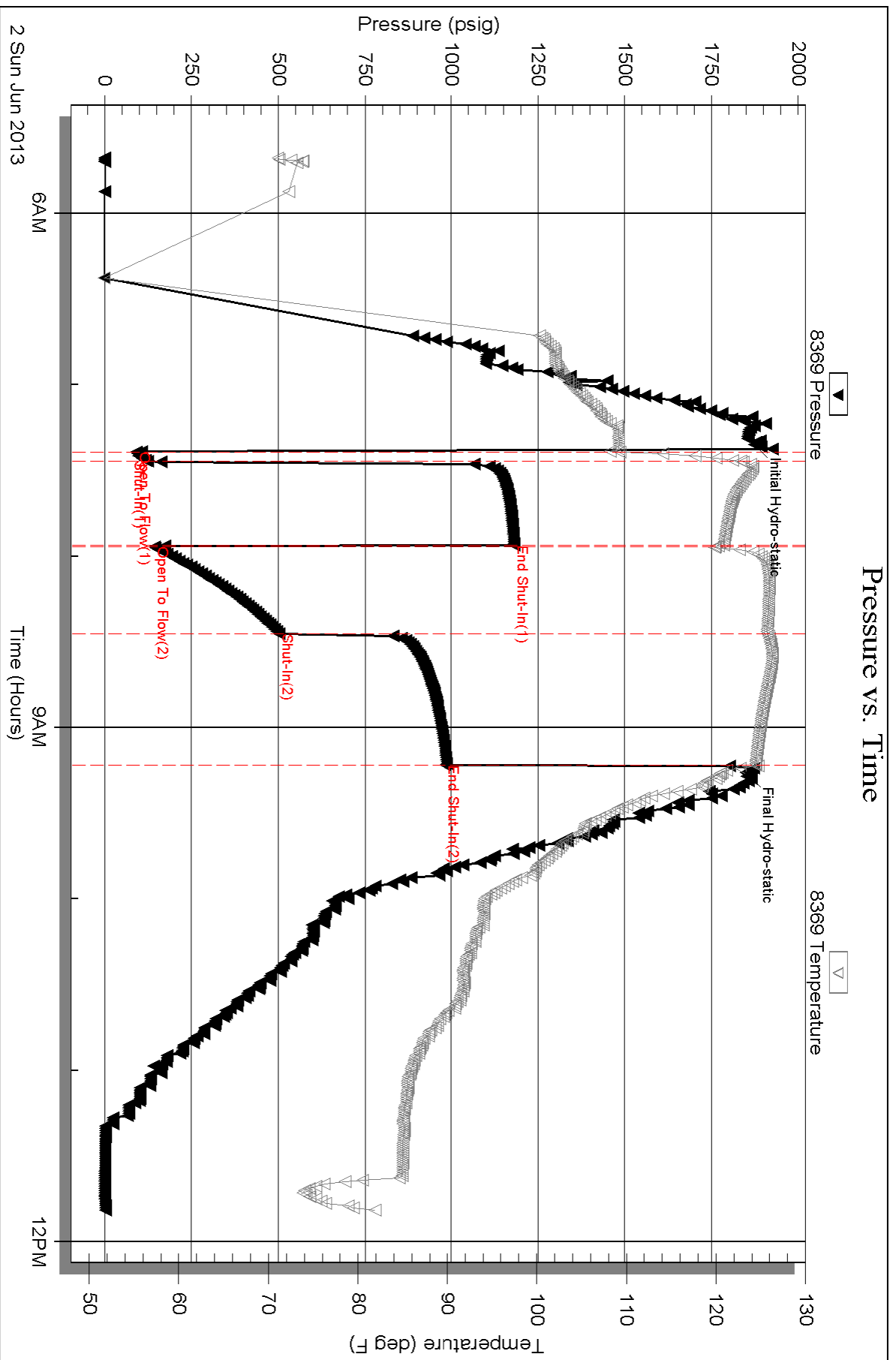
Total Length: 1324.00 ft Total Volume: 18.572 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

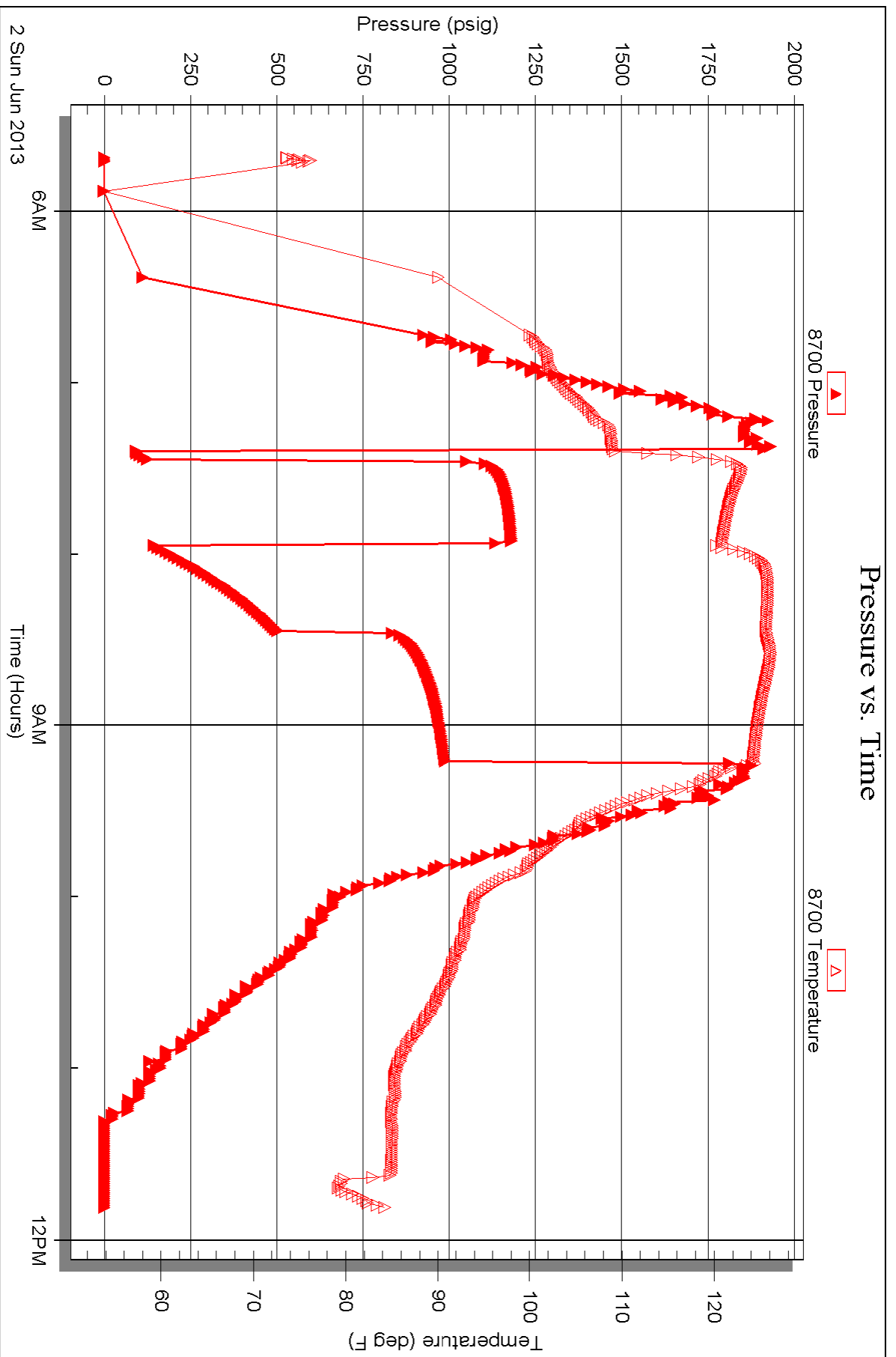


Serial #: 8700

Outside Cla-Mar Oil Company

Schumacher #2

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52086

Well Name & No. Schumacher #2 Test No. 1 Date 6-1-13
 Company CLA-MAR OIL Company Elevation 2215 KB 2210 GL
 Address PO Box 1197 Hays, Ks 67601-1197
 Co. Rep / Geo. Roger Fisher Rig Royal rig 1
 Location: Sec. 21 Twp. 13^s Rge. 20^w Co. ELLIS State Ks

Interval Tested 3635-3685 Zone Tested LKC H-I
 Anchor Length 50 Drill Pipe Run 3646 Mud Wt. 9
 Top Packer Depth 3630 Drill Collars Run - Vis 56
 Bottom Packer Depth 3635 Wt. Pipe Run - WL 8.4
 Total Depth 3685 Chlorides 3000 ppm System LCM 1 1/2 #

Blow Description IFP - SURFACE BLOW
ISIP - NO BLOW
FFP - SURFACE TO 1/16" BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>				
	<u>w/show of oil</u>				

Rec Total 15 BHT 110 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1761 Test 1150 T-On Location 0600
 (B) First Initial Flow 21 Jars - T-Started 0640
 (C) First Final Flow 23 Safety Joint - T-Open 0810
 (D) Initial Shut-In 1033 Circ Sub - T-Pulled 0958
 (E) Second Initial Flow 24 Hourly Standby - T-Out 1125
 (F) Second Final Flow 29 Mileage 40 RT 62 Comments -
 (G) Final Shut-In 901 Sampler -
 (H) Final Hydrostatic 1739 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -

Initial Open 3 Extra Recorder - Sub Total 0
 Initial Shut-In 30 Day Standby - Total 1212
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 45 Sub Total 1212

Approved By M J Finn Our Representative RAY SCHWAGER THANK YOU

Trilobite 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, 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52087

Well Name & No. Schumacher #2 Test No. 2 Date 6-2-13
 Company CLA-MAR OIL COMPANY Elevation 2215 KB 2210 GL
 Address PO Box 1197, Hays, KS 67601-1197
 Co. Rep / Geo. Roger Fisher Rig Royal rig 1
 Location: Sec. 21 Twp. 13^s Rge. 20^w Co. Ellis State Ks

Interval Tested 3808-3830 Zone Tested MARMATON
 Anchor Length 22 Drill Pipe Run 3807 Mud Wt. 9.2
 Top Packer Depth 3803 Drill Collars Run - Vis 53
 Bottom Packer Depth 3808 Wt. Pipe Run - WL 8.8
 Total Depth 3830 Chlorides 5000 ppm System LCM 1 1/2 #

Blow Description IFP - STRONG Blow IN 1 min
ISIP - 6" Blow Back
FFP - STRONG Blow thru-out
FSIP - 1/4" Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1030</u>	<u>GIP</u>				
<u>1200</u>	<u>CO</u>				
<u>124</u>	<u>SMGO</u>	<u>10</u>	<u>85</u>		<u>5</u>

Rec Total 1324 BHT 124 Gravity 41 API RW - @ - °F Chlorides - ppm
 Test 1150 T-On Location 0510
 Jars T-Started 0540
 Safety Joint T-Open 0725
 Circ Sub T-Pulled 0915
 Hourly Standby T-Out 1149
 Mileage 40 RT 124 Comments loaded tools 6/2 18:00
 Sampler
 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1274
 Accessibility MP/DST Disc't _____
 Sub Total 1274

Initial Open 3
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 45

Approved By OB 7 FA

Our Representative Ray Schwann Thank you