



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1226269
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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



1226269

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Gore Oil Company
Well Name	Preston 1
Doc ID	1226269

All Electric Logs Run

Dual Induction
Dual Receiver Cement Bond
Dual Induction
Dual Compensated Porosity
Microresistivity

Form	ACO1 - Well Completion
Operator	Gore Oil Company
Well Name	Preston 1
Doc ID	1226269

Tops

Name	Top	Datum
Anhydrite	1468	+652
B/Anhydrite	1504	+616
Topeka	3038	-918
Heebner	3250	-1130
Toronto	3278	-1158
Lansing	3296	-1176
BKC	3524	-1404
Conglomerate	3564	-1444
Arbuckle	3604	-1484

JOB LOG

SWIFT Services, Inc.

DATE 5/21/14 PAGE NO.

CUSTOMER Greer WELL NO. 1 LEASE Preston JOB TYPE 5 1/2 long string TICKET NO. 25548

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0300							on location
								TD 3660 SJ 20
								TP 3661 Inset 364'
								PC TOP 53 1458' 5 1/2 x 15.5"
								Centralizers 1, 3, 5, 7, 9, 11, 13, 52
								Baskets 14, 53
	0045							Start Pipe
								wait on weather to Pass
	0125							Finish Running Pipe
	0310							Drop Ball Break Circulation Rotate
								Big Didn't Put Braden Head on
								Get Head on
	0430							Plug 64 30 sks, MH 15 sks
		5	20				300	Start ICEL Flush
		5	8				300	Start Flocheck 21
		5	3				300	Start water spacer
		5	34				200	Start cement 140 sks EA-2
	0503							Drop Plug
								wash out Pump Lines
	0525	7						Start Displacement
	0527	7					700/1500	Land Plug Bolt
								Release Dry
								Wash up
								Pack up
	0600							Job Complete
								Thank You
								Susie, Brian, Jarrod
								Get carted off location TO Highway

ALLIED OIL & GAS SERVICES, LLC 05526b

Federal Tax I.D.# 20-5975604

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

SERVICE POINT:

Russell, KS

DATE <i>5.14.14</i>	SEC. <i>1</i>	TWP. <i>17</i>	RANGE <i>9</i>	CALLED OUT	ON LOCATION	JOB START <i>4:00</i>	JOB FINISH <i>4:30</i>
LEASE <i>Proctor</i>	WELL# <i>1</i>	LOCATION <i>Plainville, KS</i>			COUNTY <i>Moore</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <input checked="" type="radio"/> OLD		e to 21 rd n to 1st v2 w n into					

CONTRACTOR <i>Maverick #108</i>	OWNER
TYPE OF JOB <i>Surf</i>	CEMENT
HOLE SIZE <i>12 1/4</i> T.D.	AMOUNT ORDERED <i>1555k com</i>
CASING SIZE <i>8 7/8</i> DEPTH <i>262'</i>	<i>28 gal + 37 cc</i>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <i>1555k @ 17.9 \$2,774.50</i>
MEAS. LINE SHOBJOINT <i>15'</i>	POZMIX @
CEMENT LEFT IN CSG. <i>15'</i>	GEL <i>292 lb @ 1.24 \$70.08</i>
PERFS.	CHLORIDE <i>438 lb @ 1.80 \$3,350.40</i>
DISPLACEMENT <i>15.73 1700</i>	ASC @

EQUIPMENT		
PUMP TRUCK CEMENTER <i>Tom Plummer</i>	Material @	<i>3194.98</i>
# <i>417</i> HELPER <i>Danny S</i>	Diags. @	<i>798.24</i>
BULK TRUCK	@	
# <i>378</i> DRIVER <i>Tracy J.</i>	@	
BULK TRUCK	@	
#	@	
	HANDLING <i>1555k 74 @ 2.48</i>	<i>\$384.40</i>
	MILEAGE <i>18.25 712 @ 2.60</i>	<i>\$474.50</i>
REMARKS:	TOTAL <i>\$4,053.88</i>	

SERVICE	
DEPTH OF JOB <i>262'</i>	
PUMP TRUCK CHARGE	<i>\$1,512.25</i>
EXTRA FOOTAGE @	
MILEAGE <i>heavy 50m @ 7.7</i>	<i>\$385.00</i>
MANIFOLD <i>high 25m @ 4.4</i>	<i>\$110.00</i>
	@
	@
CHARGE TO: <i>Core Oil Company</i>	<i>Diag 716.54</i>
STREET	TOTAL <i>\$2,866.15</i>
CITY STATE ZIP	

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
	@
	@
	@
	TOTAL <i>0</i>

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.

PRINTED NAME *Jimmy Strickley*

SIGNATURE *[Signature]*

SALES TAX (If Any)

TOTAL CHARGES *\$6061.13*

DISCOUNT *1515.28 (25%)* IF PAID IN 30 DAYS

Net 4545.85



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wichita KS 67202-4518

ATTN: Chuck Schmaltz

Preston #1

17-9s-17w Rooks,KS

Start Date: 2014.05.18 @ 00:15:28

End Date: 2014.05.18 @ 07:39:52

Job Ticket #: 55346 DST #: 1

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

Printed: 2014.05.21 @ 11:31:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gore Oil Company
PO Box 2757
Wichita KS 67202-4518
ATTN: Chuck Schmalz

17-9s-17w Rooks,KS
Preston #1
Job Ticket: 55346 **DST#: 1**
Test Start: 2014.05.18 @ 00:15:28

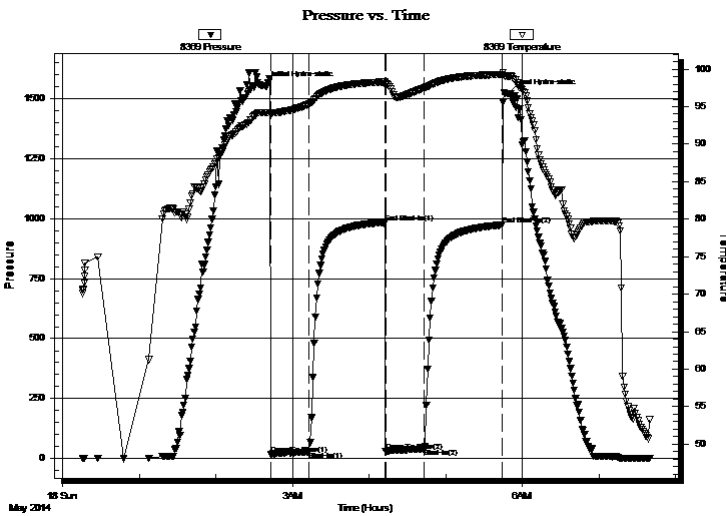
GENERAL INFORMATION:

Formation: **Oread - LKC A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:42:53
Time Test Ended: 07:39:52
Interval: **3216.00 ft (KB) To 3330.00 ft (KB) (TVD)**
Total Depth: 3330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 70
Reference Elevations: 2120.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 Inside
Press@RunDepth: 40.93 psig @ 3218.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.18 End Date: 2014.05.18 Last Calib.: 2014.05.18
Start Time: 00:15:28 End Time: 07:39:52 Time On Btm: 2014.05.18 @ 02:37:53
Time Off Btm: 2014.05.18 @ 05:48:52

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 3/4" bl
60-ISIP-no bl
30-FFP-no bl
60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1553.68	94.18	Initial Hydro-static
5	17.55	94.05	Open To Flow (1)
35	31.57	95.35	Shut-In(1)
95	981.40	98.30	End Shut-In(1)
95	30.91	97.98	Open To Flow (2)
126	40.93	97.51	Shut-In(2)
187	973.62	99.28	End Shut-In(2)
191	1520.67	99.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	MW 10%M90%W	0.63

Gas Rates

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



DRILL STEM TEST REPORT

Gore Oil Company
 PO Box 2757
 Wichita KS 67202-4518
 ATTN: Chuck Schmalz

17-9s-17w Rooks,KS
Preston #1
 Job Ticket: 55346 **DST#: 1**
 Test Start: 2014.05.18 @ 00:15:28

GENERAL INFORMATION:

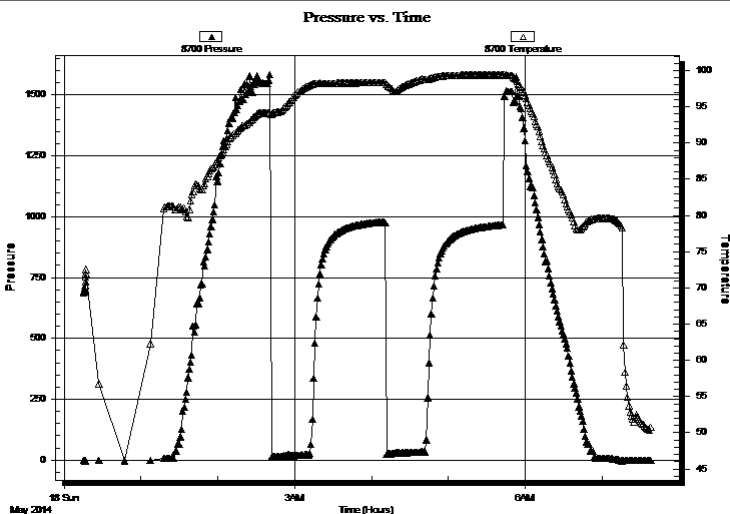
Formation: **Oread - LKC A**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:42:53 Tester: Ray Schwager
 Time Test Ended: 07:39:52 Unit No: 70
Interval: 3216.00 ft (KB) To 3330.00 ft (KB) (TVD) Reference Elevations: 2120.00 ft (KB)
 Total Depth: 3330.00 ft (KB) (TVD) 2112.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 3218.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.18 End Date: 2014.05.18 Last Calib.: 2014.05.18
 Start Time: 00:15:19 End Time: 07:38:13 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 3/4" bl
 60-ISIP-no bl
 30-FFP-no bl
 60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	MW 10%M90%W	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55346

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2014.05.18 @ 00:15:28

Tool Information

Drill Pipe:	Length: 3212.00 ft	Diameter: 3.80 inches	Volume: 45.06 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 45.06 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3216.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	114.00 ft				
Tool Length:	143.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3188.00	
Shut In Tool	5.00			3193.00	
Hydraulic tool	5.00			3198.00	
Jars	5.00			3203.00	
Safety Joint	3.00			3206.00	
Packer	5.00			3211.00	29.00 Bottom Of Top Packer
Packer	5.00			3216.00	
Stubb	1.00			3217.00	
Perforations	1.00			3218.00	
Recorder	0.00	8369	Inside	3218.00	
Recorder	0.00	8700	Outside	3218.00	
Blank Spacing	95.00			3313.00	
Perforations	14.00			3327.00	
Bullnose	3.00			3330.00	114.00 Bottom Packers & Anchor

Total Tool Length: 143.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55346

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2014.05.18 @ 00:15:28

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:

73000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	MW 10%M90%W	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11@ 65F

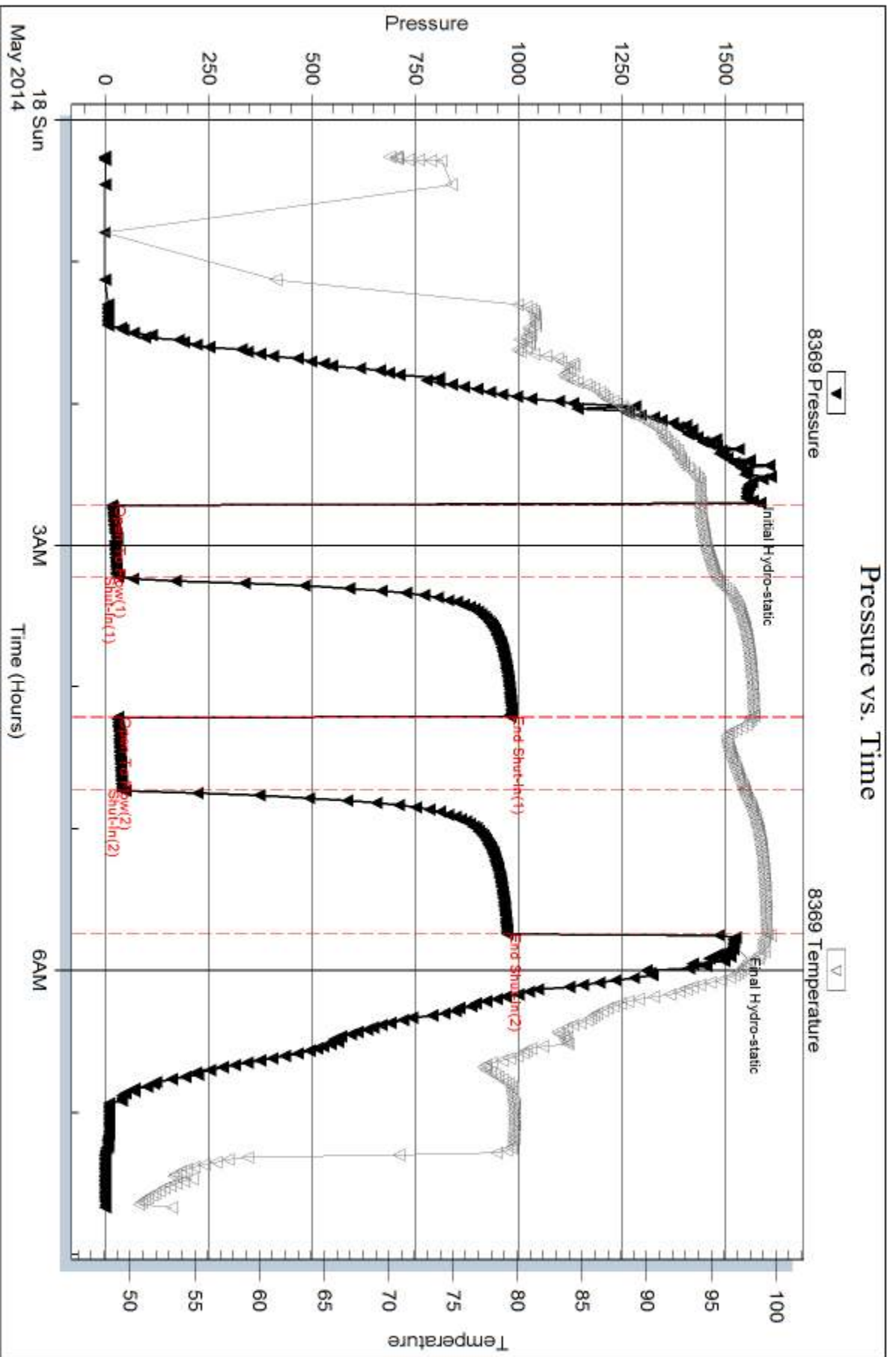
Serial #: 8369

Inside

Gore Oil Company

Preston #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55346

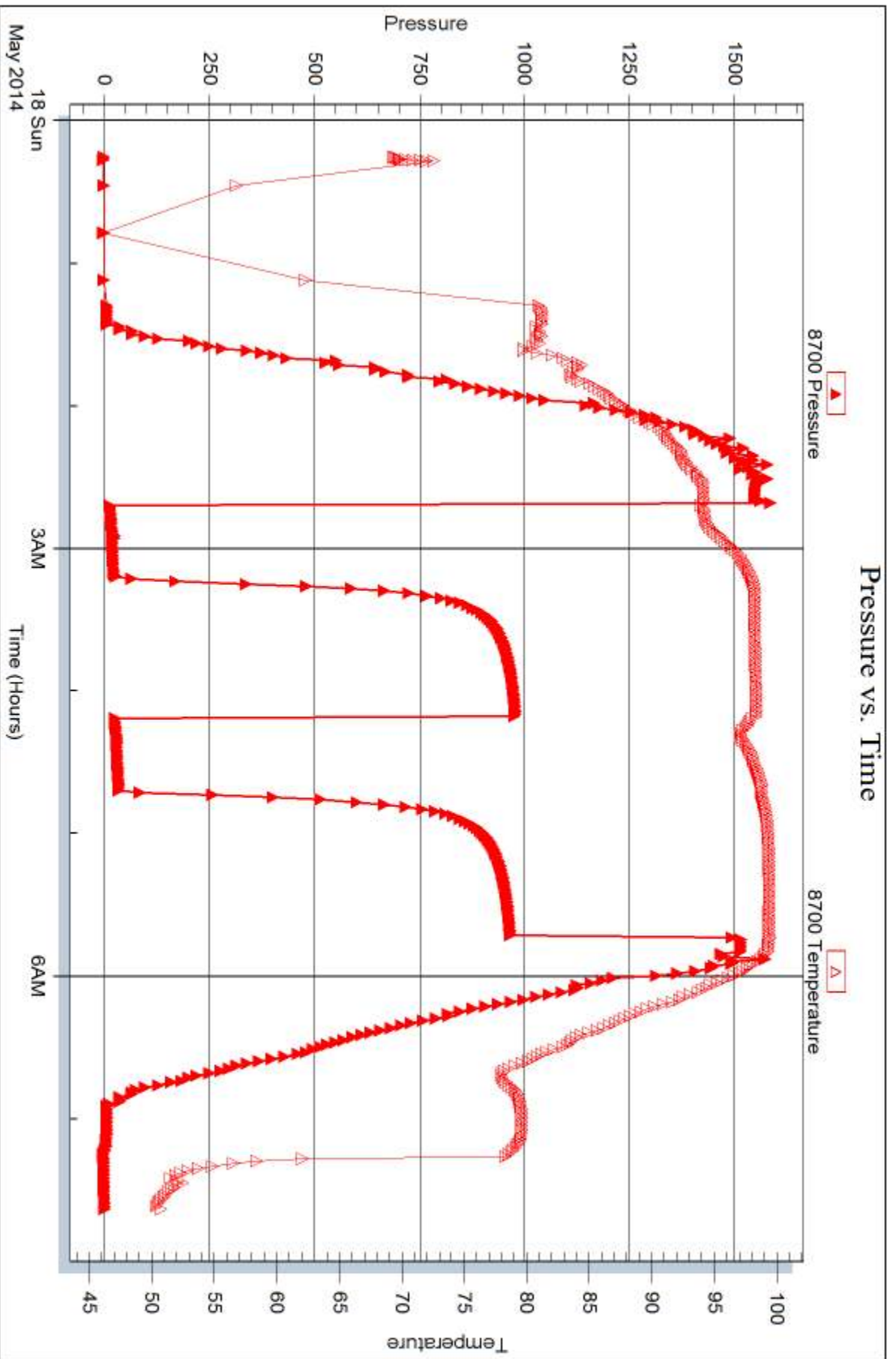
Printed: 2014.05.21 @ 11:31:44

Serial #: 8700

Outside Gore Oil Company

Preston #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wichita KS 67202-4518

ATTN: Chuck Schmaltz

Preston #1

17-9s-17w Rooks,KS

Start Date: 2014.05.18 @ 17:00:56

End Date: 2014.05.19 @ 02:28:51

Job Ticket #: 55347 DST #: 2

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

Printed: 2014.05.21 @ 11:31:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gore Oil Company
PO Box 2757
Wichita KS 67202-4518
ATTN: Chuck Schmalz

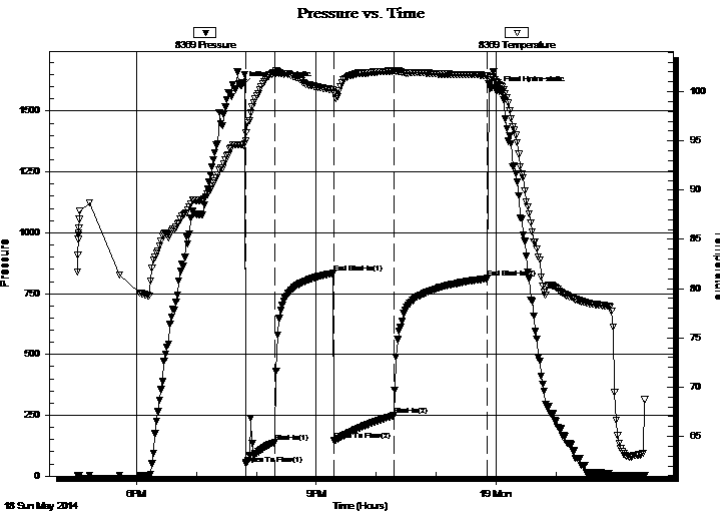
17-9s-17w Rooks,KS
Preston #1
Job Ticket: 55347 **DST#: 2**
Test Start: 2014.05.18 @ 17:00:56

GENERAL INFORMATION:

Formation: **LKC C-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:49:21
Time Test Ended: 02:28:51
Interval: **3324.00 ft (KB) To 3390.00 ft (KB) (TVD)**
Total Depth: 3390.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2120.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 70

Serial #: 8369 Inside
Press@RunDepth: 249.43 psig @ 3329.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.18 End Date: 2014.05.19 Last Calib.: 2014.05.19
Start Time: 17:00:56 End Time: 02:28:51 Time On Btm: 2014.05.18 @ 19:45:51
Time Off Btm: 2014.05.19 @ 00:01:20

TEST COMMENT: 30-IFP-w k to strg in 3 min
60-ISIP-1" bl bk
60-FFP-w k to strg in 10 min
90-FSIP-1/4" bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.12	94.57	Initial Hydro-static
4	50.60	94.97	Open To Flow (1)
33	138.92	101.94	Shut-In(1)
92	833.26	100.16	End Shut-In(1)
92	146.07	99.85	Open To Flow (2)
152	249.43	102.11	Shut-In(2)
246	812.40	101.62	End Shut-In(2)
256	1582.98	100.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	490'GIP	0.00
186.00	CO	2.61
130.00	MGO 5%G30%M65%O	1.82
175.00	MGO 5%G5%M15%W75%O	2.45
70.00	SOCMW 4%O5%M91%W	0.98

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gore Oil Company
PO Box 2757
Wichita KS 67202-4518
ATTN: Chuck Schmaltz

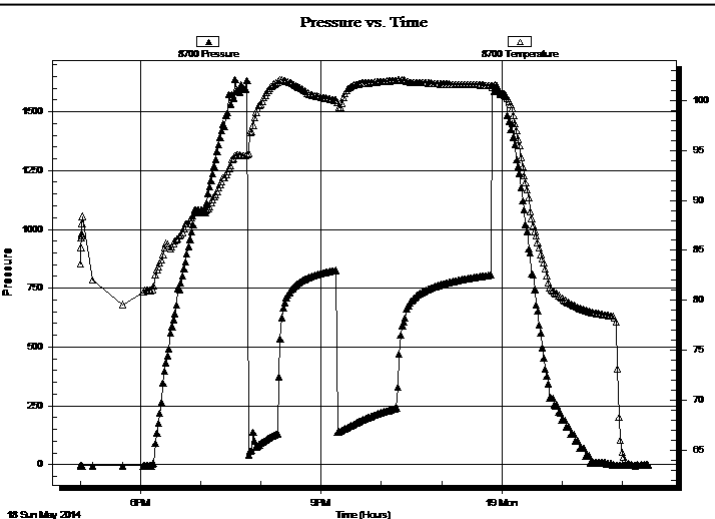
17-9s-17w Rooks, KS
Preston #1
Job Ticket: 55347 **DST#: 2**
Test Start: 2014.05.18 @ 17:00:56

GENERAL INFORMATION:

Formation: **LKC C-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:49:21 Test Type: Conventional Bottom Hole (Reset)
Time Test Ended: 02:28:51 Tester: Ray Schwager
Unit No: 70
Interval: 3324.00 ft (KB) To 3390.00 ft (KB) (TVD) Reference Elevations: 2120.00 ft (KB)
Total Depth: 3390.00 ft (KB) (TVD) 2112.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8700 Outside
Press@RunDepth: psig @ 3329.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.18 End Date: 2014.05.19 Last Calib.: 2014.05.19
Start Time: 17:00:17 End Time: 02:26:12 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 3 min
60-ISIP-1" bl bk
60-FFP-w k to strg in 10 min
90-FSIP-1/4" bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	490'GIP	0.00
186.00	CO	2.61
130.00	MGO 5%G30%M65%O	1.82
175.00	MGO 5%G5%M15%W75%O	2.45
70.00	SOCMW 4%O5%M91%W	0.98

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55347

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.05.18 @ 17:00:56

Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.51 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3324.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3301.00	
Shut In Tool	5.00			3306.00	
Hydraulic tool	5.00			3311.00	
Safety Joint	3.00			3314.00	
Packer	5.00			3319.00	24.00 Bottom Of Top Packer
Packer	5.00			3324.00	
Stubb	1.00			3325.00	
Perforations	4.00			3329.00	
Recorder	0.00	8369	Inside	3329.00	
Recorder	0.00	8700	Outside	3329.00	
Blank Spacing	33.00			3362.00	
Perforations	25.00			3387.00	
Bullnose	3.00			3390.00	66.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55347

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.05.18 @ 17:00:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

96000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.74 in³

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
0.00	490'GIP	0.000
186.00	CO	2.609
130.00	MGO 5%G30%M65%O	1.824
175.00	MGO 5%G5%M15%W75%O	2.455
70.00	SOCMW 4%O5%M91%W	0.982

Total Length: 561.00 ft Total Volume: 7.870 bbl

Num Fluid Samples: 0

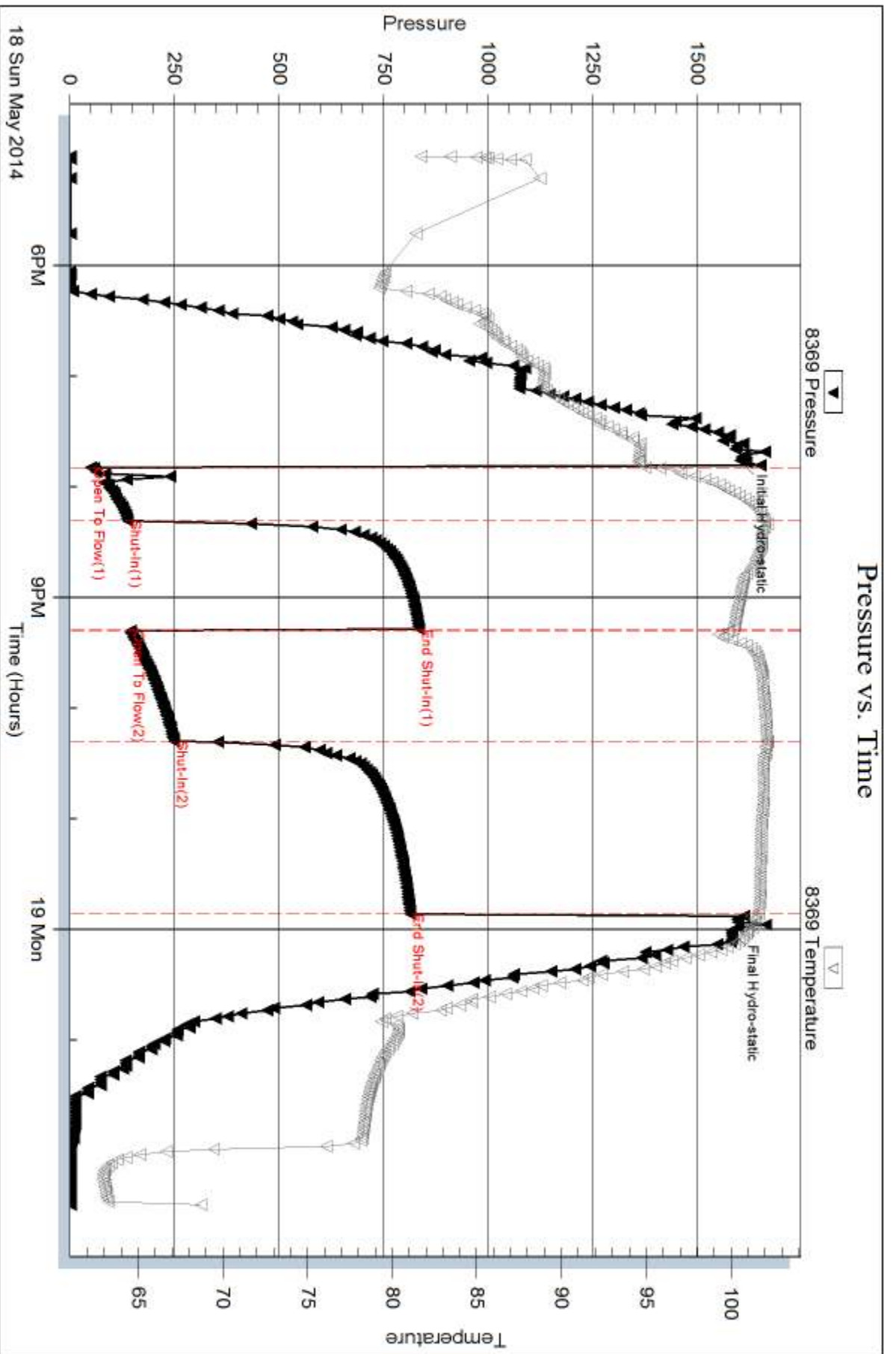
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .08@70F

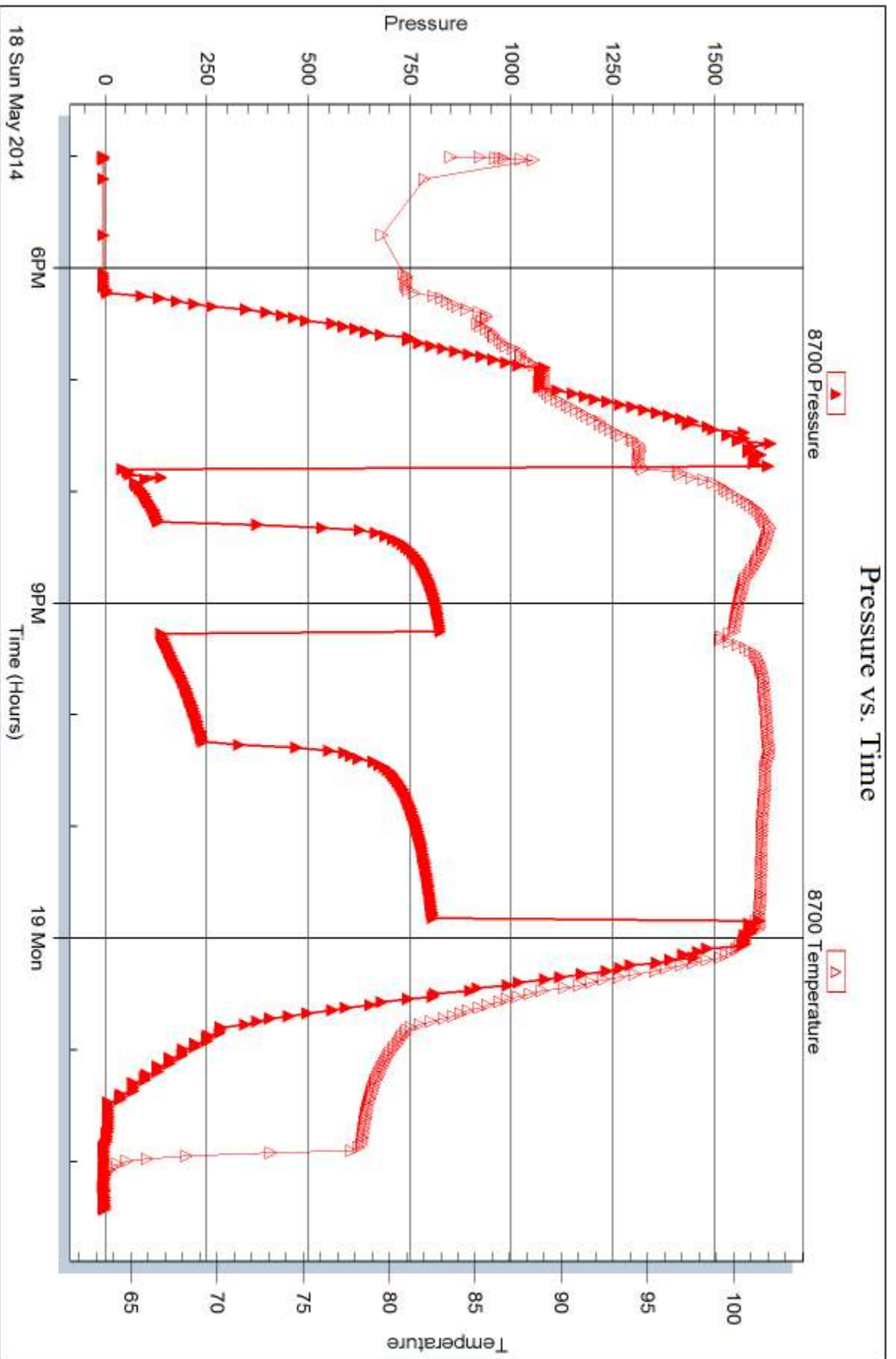


Serial #: 8700

Outside Gore Oil Company

Preston #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 55347

Printed: 2014.05.21 @ 11:31:19



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wichita KS 67202-4518

ATTN: Chuck Schmaltz

Preston #1

17-9s-17w Rooks,KS

Start Date: 2014.05.19 @ 09:15:55

End Date: 2014.05.19 @ 16:52:19

Job Ticket #: 55348 DST #: 3

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

Printed: 2014.05.21 @ 11:30:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Gore Oil Company
PO Box 2757
Wichita KS 67202-4518
ATTN: Chuck Schmaltz

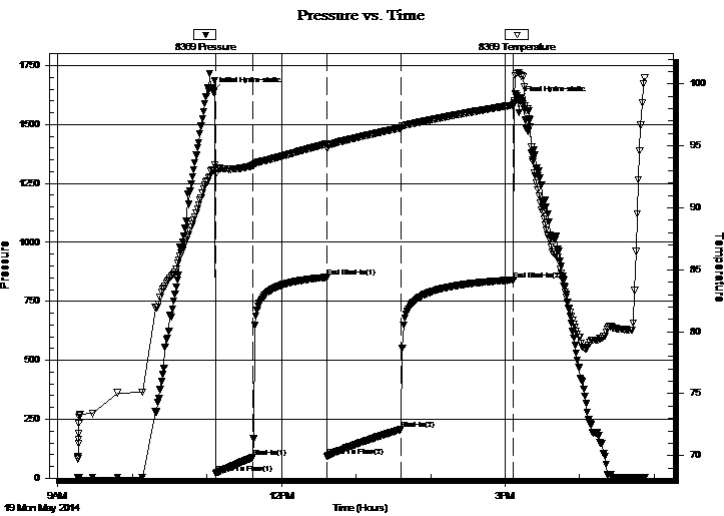
17-9s-17w Rooks,KS
Preston #1
Job Ticket: 55348 **DST#: 3**
Test Start: 2014.05.19 @ 09:15:55

GENERAL INFORMATION:

Formation: **LKC G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:07:20
Time Test Ended: 16:52:19
Interval: **3393.00 ft (KB) To 3425.00 ft (KB) (TVD)**
Total Depth: 3425.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2120.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 70

Serial #: 8369 Inside
Press@RunDepth: 206.44 psig @ 3397.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.19 End Date: 2014.05.19 Last Calib.: 2014.05.19
Start Time: 09:15:55 End Time: 16:52:19 Time On Btm: 2014.05.19 @ 11:04:50
Time Off Btm: 2014.05.19 @ 15:10:49

TEST COMMENT: 30-IFP-w k to strg in 15 min
60-FFP-no bl
60-FFP-w k to a strg bl in 35 min
90-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.80	93.04	Initial Hydro-static
3	21.23	92.73	Open To Flow (1)
32	87.35	93.38	Shut-In(1)
92	851.92	95.15	End Shut-In(1)
92	93.34	94.82	Open To Flow (2)
152	206.44	96.45	Shut-In(2)
242	841.24	98.29	End Shut-In(2)
246	1600.18	100.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
530.00	Water	7.43

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55348

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.05.19 @ 09:15:55

Tool Information

Drill Pipe:	Length: 3379.00 ft	Diameter: 3.80 inches	Volume: 47.40 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: 65000.00 lb
			<u>Total Volume: 47.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3393.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3370.00	
Shut In Tool	5.00			3375.00	
Hydraulic tool	5.00			3380.00	
Safety Joint	3.00			3383.00	
Packer	5.00			3388.00	24.00 Bottom Of Top Packer
Packer	5.00			3393.00	
Stubb	1.00			3394.00	
Perforations	3.00			3397.00	
Recorder	0.00	8369	Inside	3397.00	
Recorder	0.00	8700	Outside	3397.00	
Perforations	25.00			3422.00	
Bullnose	3.00			3425.00	32.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55348

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.05.19 @ 09:15:55

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:

98000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.54 in³

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
530.00	Water	7.435

Total Length: 530.00 ft Total Volume: 7.435 bbl

Num Fluid Samples: 0

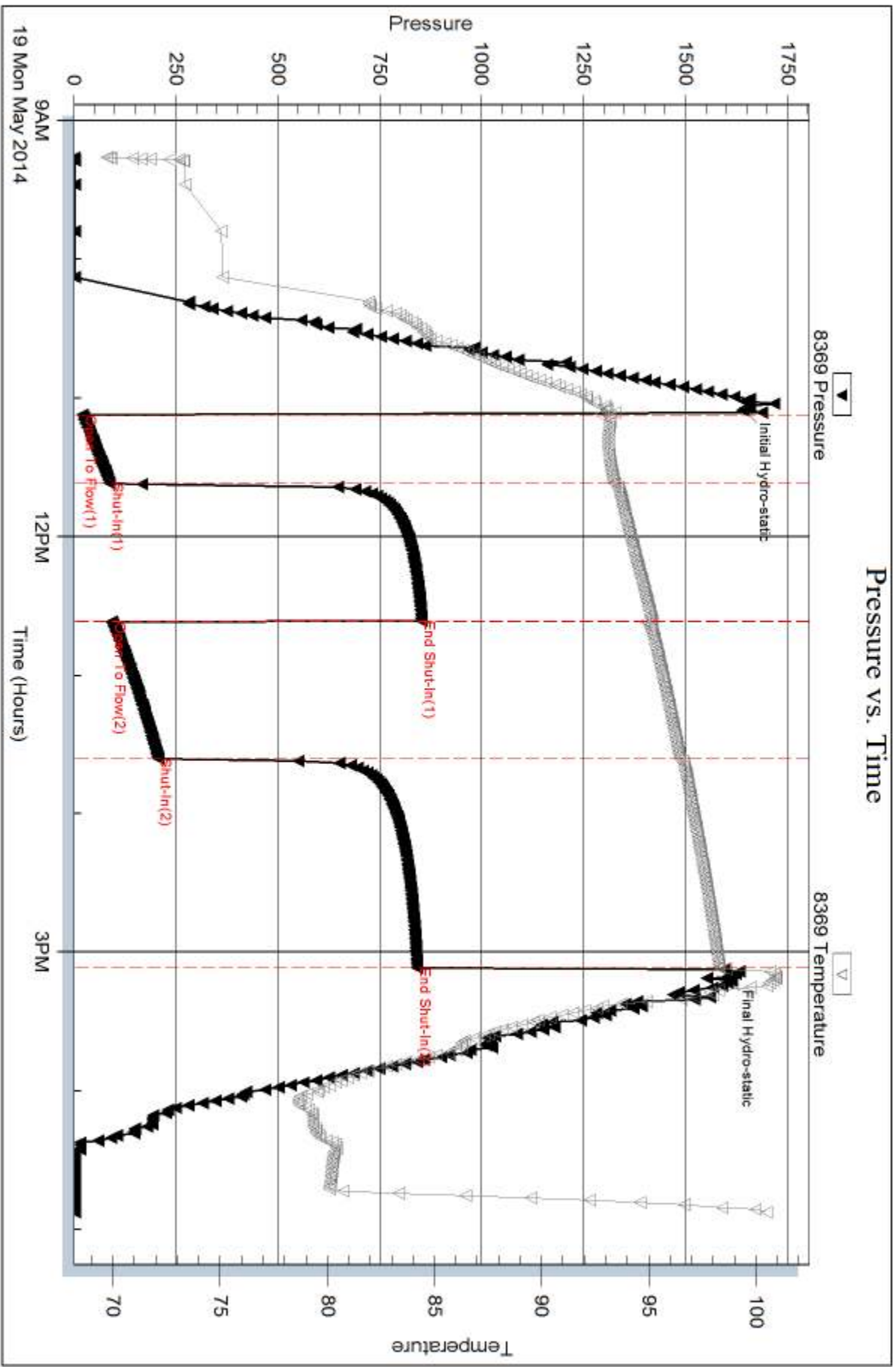
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .07@75F

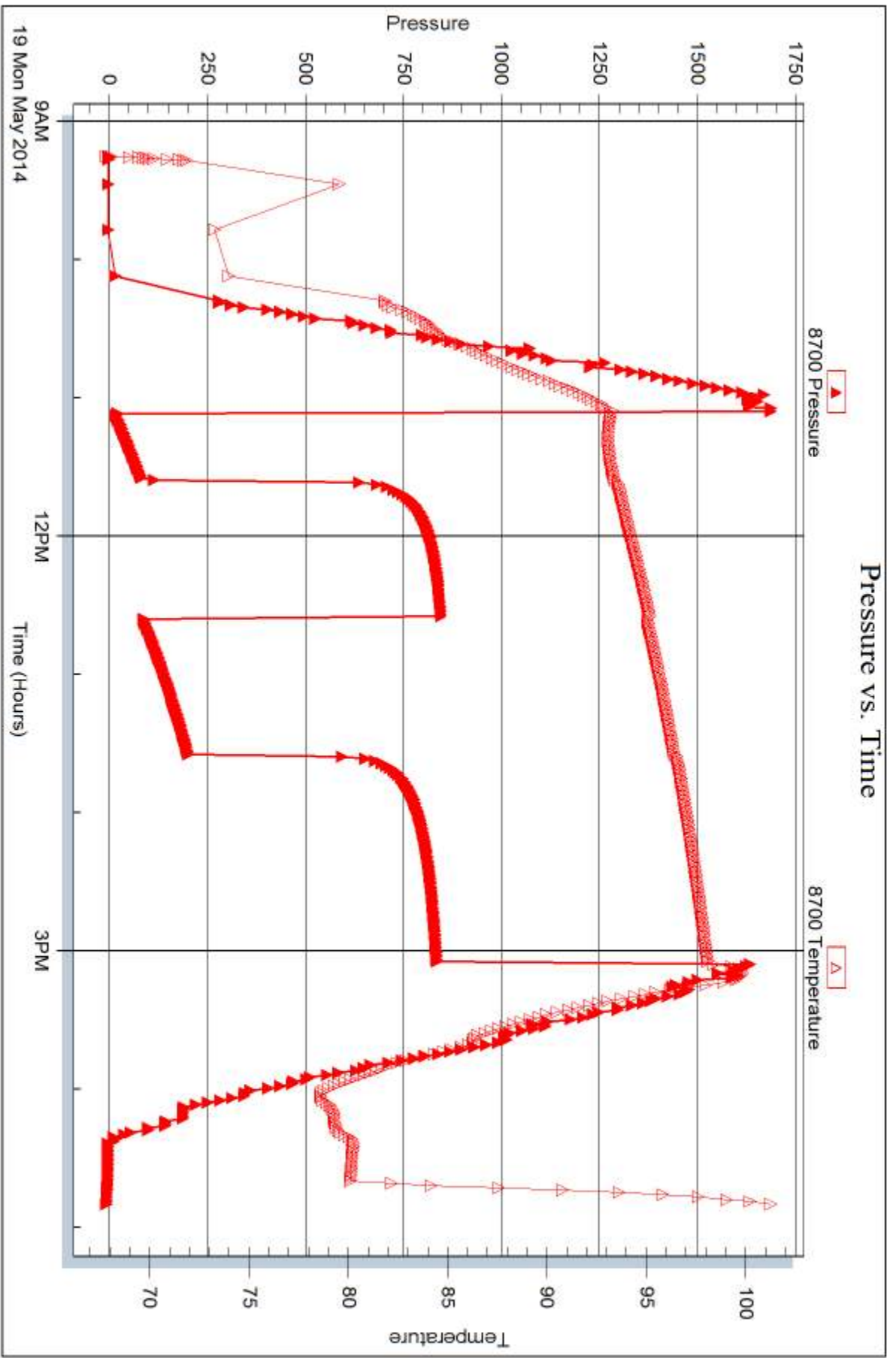


Serial #: 8700

Outside Gore Oil Company

Preston #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 55348

Printed: 2014.05.21 @ 11:30:56



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wichita KS 67202-4518

ATTN: Chuck Schmaltz

Preston #1

17-9s-17w Rooks,KS

Start Date: 2014.05.20 @ 06:55:59

End Date: 2014.05.20 @ 12:43:53

Job Ticket #: 55349 DST #: 4

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

Printed: 2014.05.21 @ 11:30:34



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gore Oil Company
PO Box 2757
Wichita KS 67202-4518
ATTN: Chuck Schmaltz

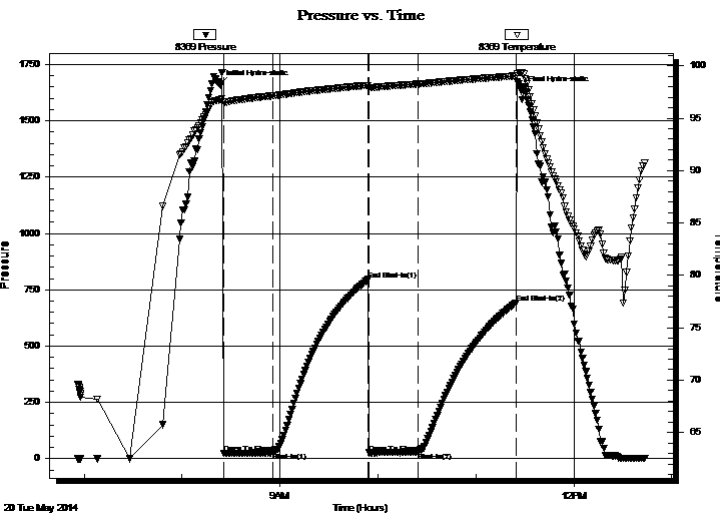
17-9s-17w Rooks,KS
Preston #1
Job Ticket: 55349 **DST#: 4**
Test Start: 2014.05.20 @ 06:55:59

GENERAL INFORMATION:

Formation: **LKC H-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:25:24
Time Test Ended: 12:43:53
Interval: **3418.00 ft (KB) To 3530.00 ft (KB) (TVD)**
Total Depth: 3530.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 70
Reference Elevations: 2120.00 ft (KB)
2112.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 **Inside**
Press@RunDepth: 27.21 psig @ 3429.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.20 End Date: 2014.05.20 Last Calib.: 2014.05.20
Start Time: 06:55:59 End Time: 12:43:53 Time On Btm: 2014.05.20 @ 08:22:54
Time Off Btm: 2014.05.20 @ 11:27:53

TEST COMMENT: 30-IFP-w k bl 1/4" to surface bl
60-ISIP-no bl
30-FFP-no bl
60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.75	96.75	Initial Hydro-static
3	22.49	96.53	Open To Flow (1)
33	26.06	97.14	Shut-In(1)
91	794.73	98.14	End Shut-In(1)
92	25.71	97.84	Open To Flow (2)
122	27.21	98.26	Shut-In(2)
182	689.56	99.04	End Shut-In(2)
185	1634.25	99.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gore Oil Company
 PO Box 2757
 Wichita KS 67202-4518
 ATTN: Chuck Schmalz

17-9s-17w Rooks, KS
Preston #1
 Job Ticket: 55349 **DST#: 4**
 Test Start: 2014.05.20 @ 06:55:59

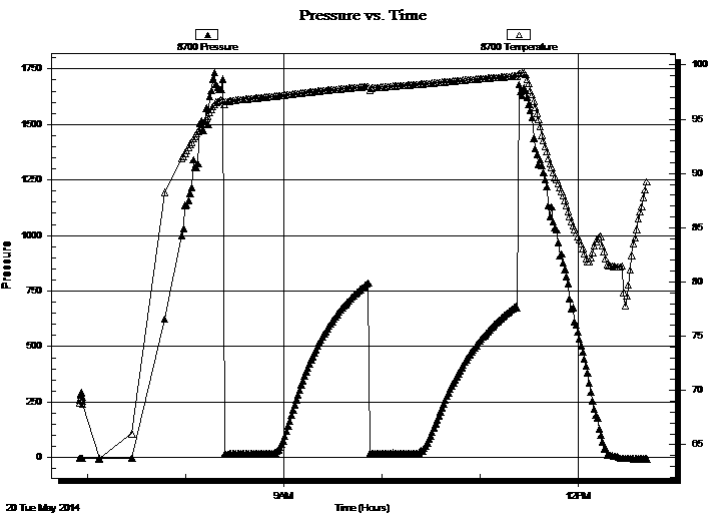
GENERAL INFORMATION:

Formation: LKC H-L		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 08:25:24		Tester: Ray Schwager
Time Test Ended: 12:43:53		Unit No: 70
Interval: 3418.00 ft (KB) To 3530.00 ft (KB) (TVD)		Reference Elevations: 2120.00 ft (KB)
Total Depth: 3530.00 ft (KB) (TVD)		2112.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @	3429.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2014.05.20	End Date:	2014.05.20
Start Time:	06:55:24	End Time:	12:41:48
		Last Calib.:	2014.05.20
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30-IFP-w k bl 1/4" to surface bl
 60-ISIP-no bl
 30-FFP-no bl
 60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55349

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2014.05.20 @ 06:55:59

Tool Information

Drill Pipe:	Length: 3409.00 ft	Diameter: 3.80 inches	Volume: 47.82 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3418.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	136.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3395.00	
Shut In Tool	5.00			3400.00	
Hydraulic tool	5.00			3405.00	
Safety Joint	3.00			3408.00	
Packer	5.00			3413.00	24.00 Bottom Of Top Packer
Packer	5.00			3418.00	
Stubb	1.00			3419.00	
Perforations	10.00			3429.00	
Recorder	0.00	8369	Inside	3429.00	
Recorder	0.00	8700	Outside	3429.00	
Blank Spacing	95.00			3524.00	
Perforations	3.00			3527.00	
Bullnose	3.00			3530.00	112.00 Bottom Packers & Anchor

Total Tool Length: 136.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55349

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2014.05.20 @ 06:55:59

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

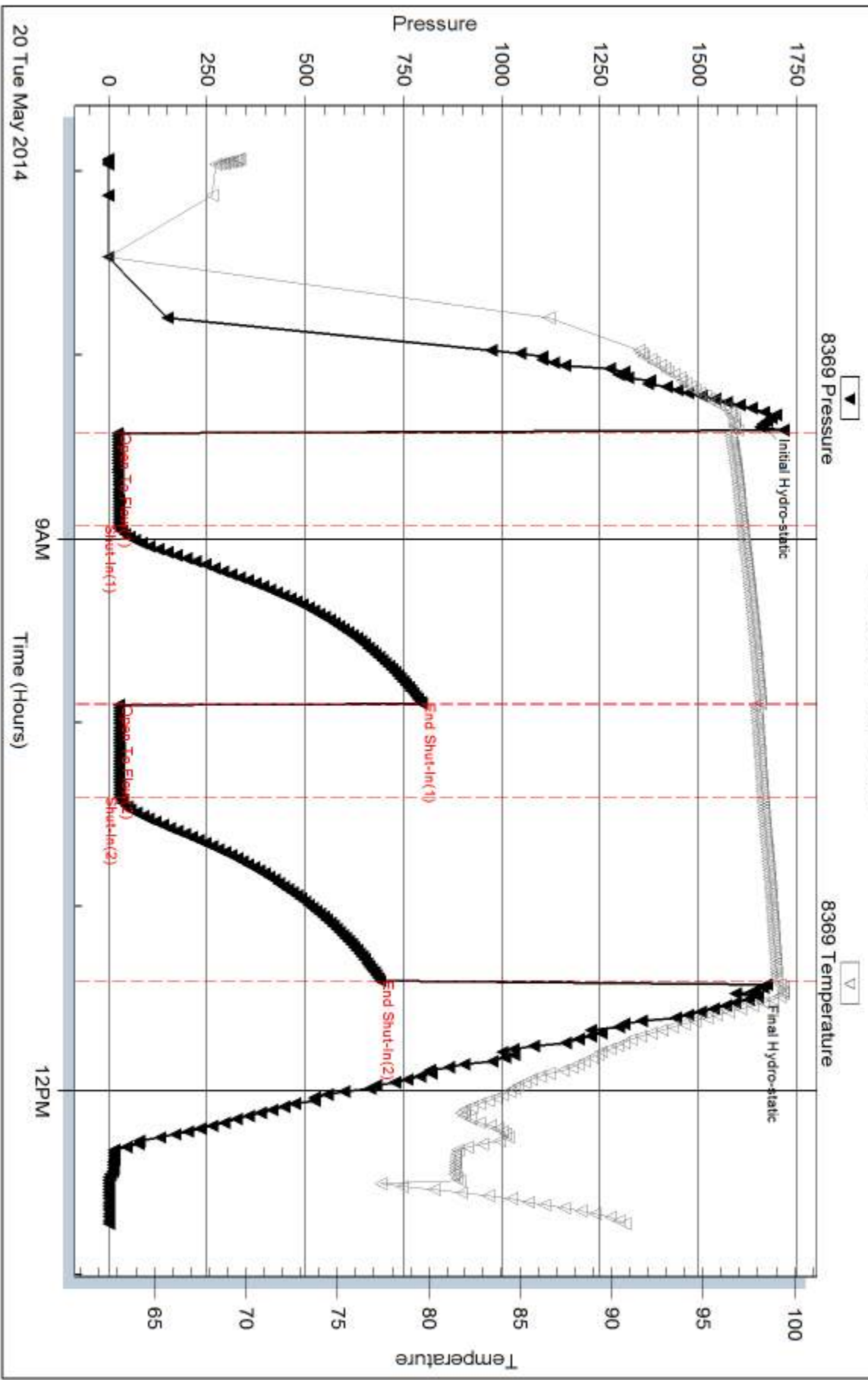
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

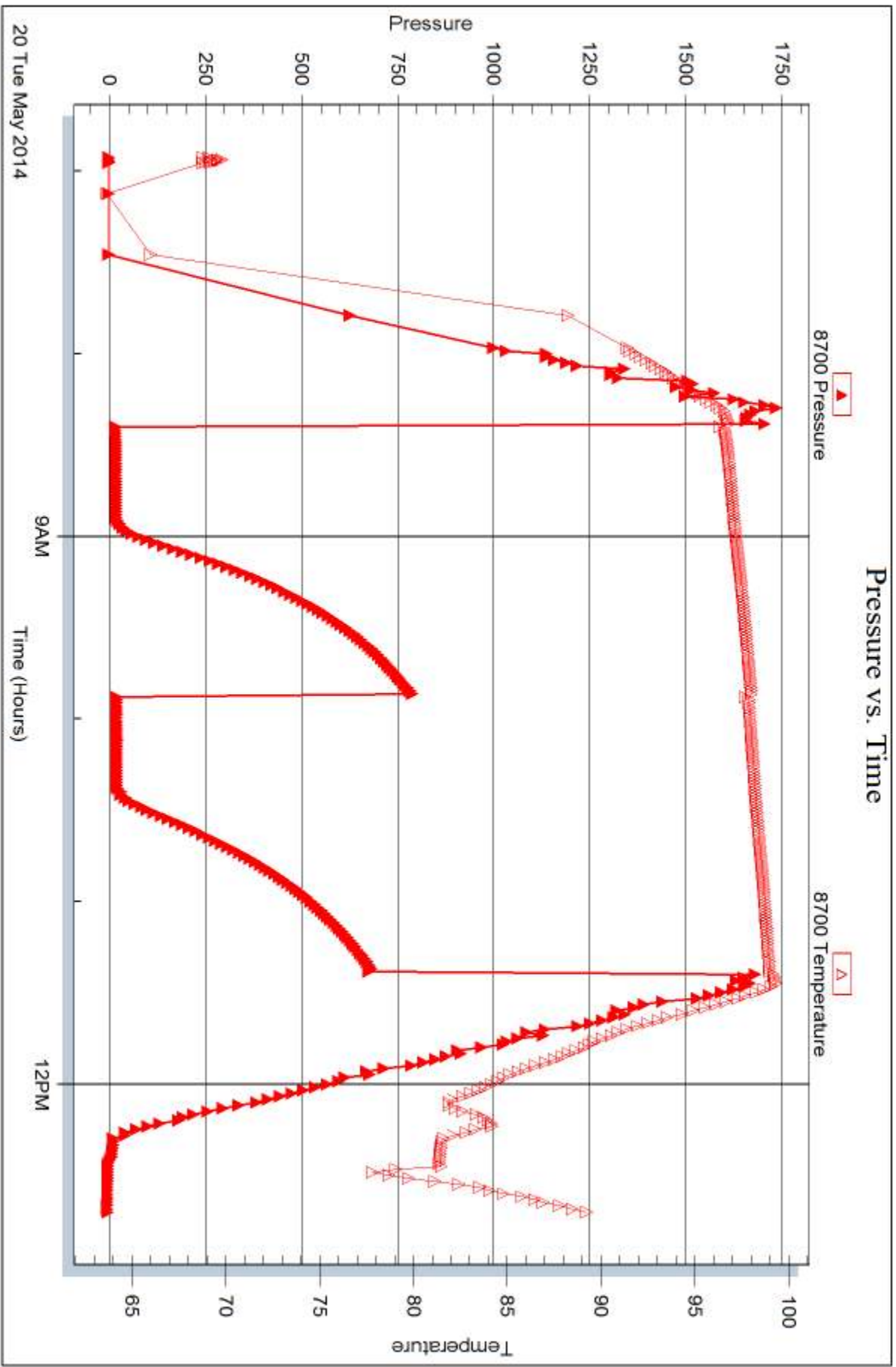


Serial #: 8700

Outside Gore Oil Company

Preston #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 55349

Printed: 2014.05.21 @ 11:30:35



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wichita KS 67202-4518

ATTN: Chuck Schmaltz

Preston #1

17-9s-17w Rooks,KS

Start Date: 2014.05.20 @ 20:50:49

End Date: 2014.05.21 @ 03:16:13

Job Ticket #: 55350 DST #: 5

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

Printed: 2014.05.21 @ 11:30:01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gore Oil Company
 PO Box 2757
 Wichita KS 67202-4518
 ATTN: Chuck Schmaltz

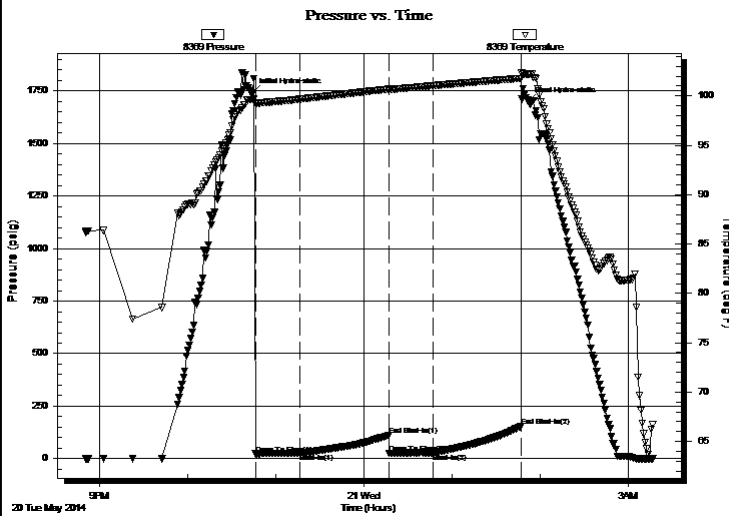
17-9s-17w Rooks,KS
Preston #1
 Job Ticket: 55350 **DST#: 5**
 Test Start: 2014.05.20 @ 20:50:49

GENERAL INFORMATION:

Formation: **Congl sd**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:46:14
 Time Test Ended: 03:16:13
 Interval: **3528.00 ft (KB) To 3603.00 ft (KB) (TVD)**
 Total Depth: 3603.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2120.00 ft (KB)
 2112.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8369 Inside
 Press@RunDepth: 28.03 psig @ 3536.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.20 End Date: 2014.05.21 Last Calib.: 2014.05.21
 Start Time: 20:50:49 End Time: 03:16:13 Time On Btm: 2014.05.20 @ 22:44:14
 Time Off Btm: 2014.05.21 @ 01:51:43

TEST COMMENT: 30-IFP-w k bl 1/2" to 1/4" bl
 60-ISIP-no bl
 30-FFP-no bl
 60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.97	99.66	Initial Hydro-static
2	23.36	99.20	Open To Flow (1)
32	25.78	99.67	Shut-In(1)
93	111.30	100.69	End Shut-In(1)
93	26.27	100.67	Open To Flow (2)
123	28.03	101.04	Shut-In(2)
183	153.97	101.79	End Shut-In(2)
188	1699.97	102.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gore Oil Company
 PO Box 2757
 Wichita KS 67202-4518
 ATTN: Chuck Schmaltz

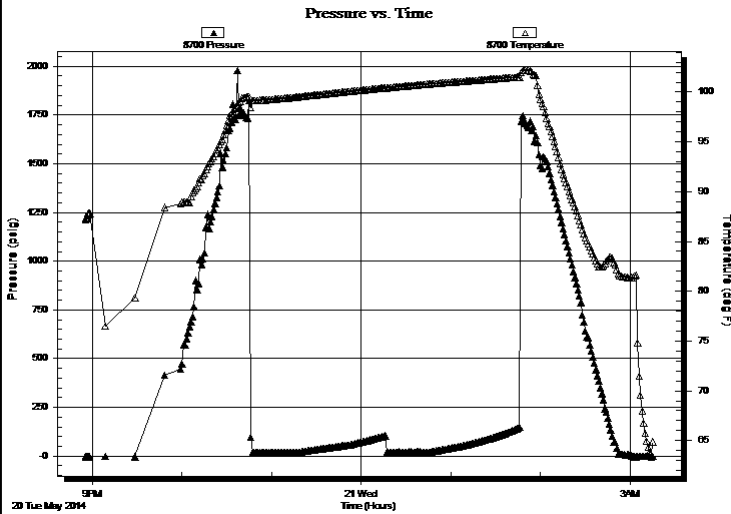
17-9s-17w Rooks, KS
Preston #1
 Job Ticket: 55350 **DST#: 5**
 Test Start: 2014.05.20 @ 20:50:49

GENERAL INFORMATION:

Formation: **Congl sd**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:46:14 Tester: Ray Schwager
 Time Test Ended: 03:16:13 Unit No: 70
 Interval: **3528.00 ft (KB) To 3603.00 ft (KB) (TVD)** Reference Elevations: 2120.00 ft (KB)
 Total Depth: 3603.00 ft (KB) (TVD) 2112.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8700 Outside
 Press@RunDepth: psig @ 3536.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.20 End Date: 2014.05.21 Last Calib.: 2014.05.21
 Start Time: 20:55:38 End Time: 03:15:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k bl 1/2" to 1/4" bl
 60-ISIP-no bl
 30-FFP-no bl
 60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55350

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.05.20 @ 20:50:49

Tool Information

Drill Pipe:	Length: 3525.00 ft	Diameter: 3.80 inches	Volume: 49.45 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:	65000.00 lb
			<u>Total Volume: 49.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3528.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.00 ft				
Tool Length:	99.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3505.00	
Shut In Tool	5.00			3510.00	
Hydraulic tool	5.00			3515.00	
Safety Joint	3.00			3518.00	
Packer	5.00			3523.00	24.00 Bottom Of Top Packer
Packer	5.00			3528.00	
Stubb	1.00			3529.00	
Perforations	7.00			3536.00	
Recorder	0.00	8369	Inside	3536.00	
Recorder	0.00	8700	Outside	3536.00	
Blank Spacing	64.00			3600.00	
Bullnose	3.00			3603.00	75.00 Bottom Packers & Anchor

Total Tool Length: 99.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

17-9s-17w Rooks,KS

PO Box 2757
Wichita KS 67202-4518

Preston #1

Job Ticket: 55350

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.05.20 @ 20:50:49

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud	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:

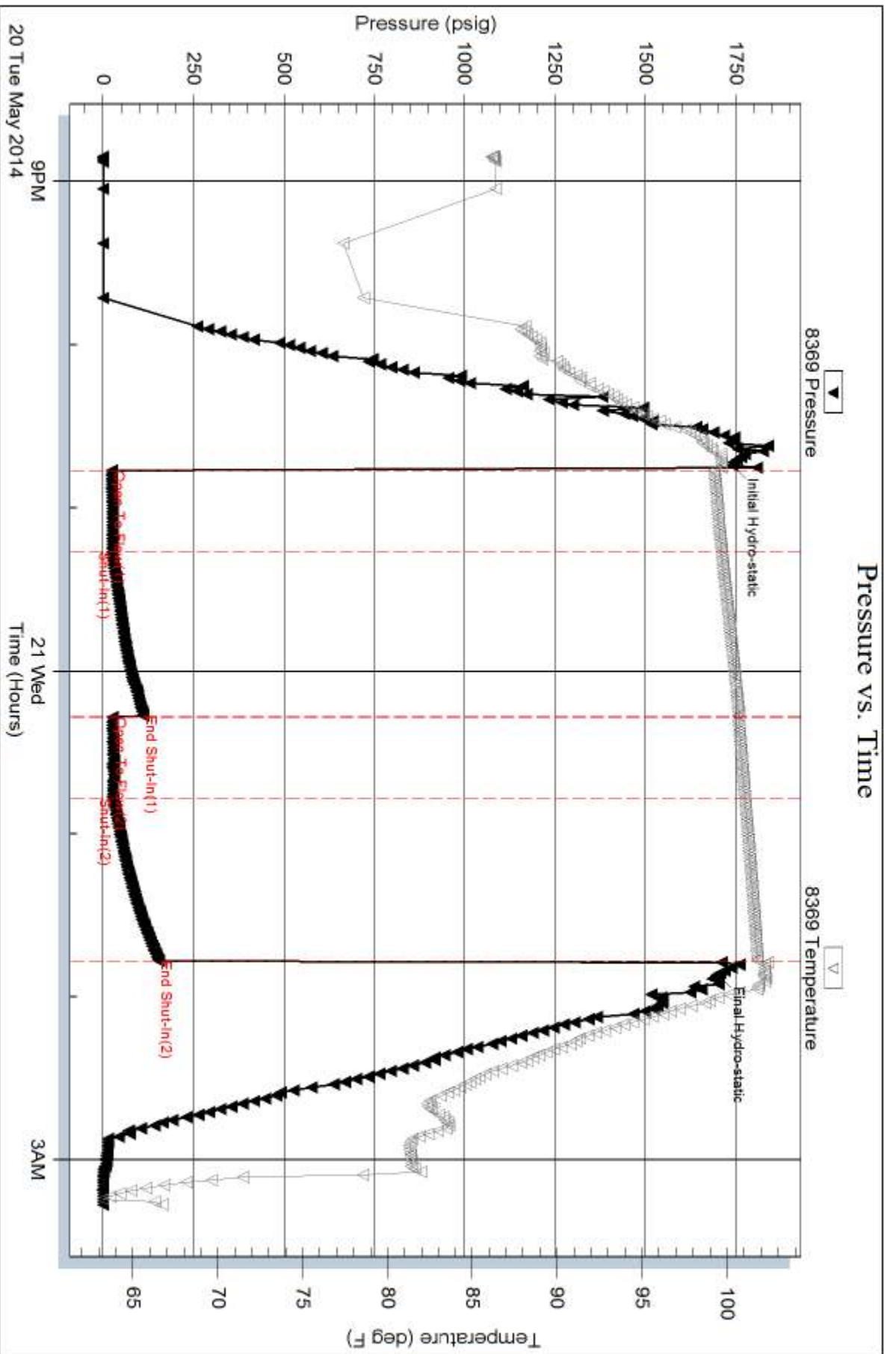
Serial #: 8369

Inside

Gore Oil Company

Preston #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 55350

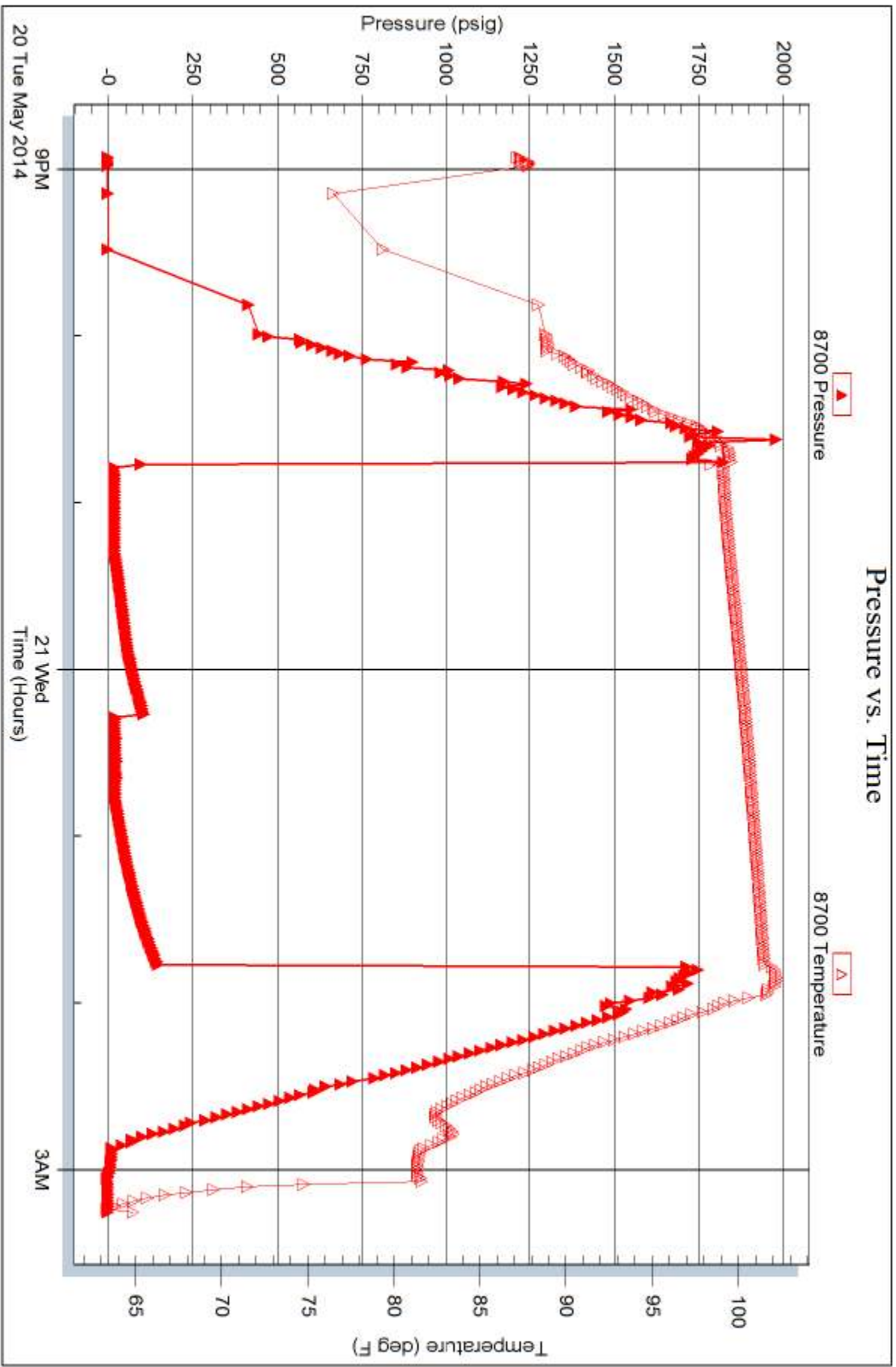
Printed: 2014.05.21 @ 11:30:02

Serial #: 8700

Outside Gore Oil Company

Preston #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 55350

Printed: 2014.05.21 @ 11:30:02



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55346

Well Name & No. Preston #1 Test No. 1 Date 5-17-14
 Company Gore O, L Company Elevation 2120 KB 2112 GL
 Address 202 S ST. FRANCIS, PO Box 2757 Wichita, KS 67202-4518
 Co. Rep / Geo. Chuck Schmalz Rig Maverick 108
 Location: Sec. 17 Twp. 9^s Rge. 17^w Co. Roos State Ks

Interval Tested 3216-3330 Zone Tested Oread-A
 Anchor Length 114 Drill Pipe Run 3212 Mud Wt. 9.1
 Top Packer Depth 3211 Drill Collars Run - Vis 49
 Bottom Packer Depth 3216 Wt. Pipe Run - WL 5.8
 Total Depth 3330 Chlorides 1600 ppm System LCM 1 1/2 #

Blow Description I FP - Weak Blow thru-out 1/2" To 3/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>mw</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 99 Gravity - API RW .11 @ 65 ° F Chlorides 73000 ppm
 (A) Initial Hydrostatic 1553 Test 1150 T-On Location 2240
 (B) First Initial Flow 17 Jars 250 T-Started 0015
 (C) First Final Flow 31 Safety Joint 75 T-Open 0235
 (D) Initial Shut-In 981 Circ Sub _____ T-Pulled 0535
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 0739
 (F) Second Final Flow 40 Mileage 65RT 100.75 Comments _____
 (G) Final Shut-In 973 Sampler _____ Slid Tool approx 6' To
 (H) Final Hydrostatic 1520 Straddle _____ Bottom
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 60 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1575.75 MP/DST Disc't _____

Approved By Chuck Schmalz 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. 55347

Well Name & No. Preston #1 Test No. 2 Date 5-18-14
 Company Gore Oil Company Elevation 2120 KB 2112 GL
 Address 202 S. ST. FRANCIS, PO Box 2757 WICHITA, Ks 67202-4518
 Co. Rep / Geo. Chuck Schmalz Rig Maverick 108
 Location: Sec. 17 Twp. 9^s Rge. 17^w Co. Rooks State Ks

Interval Tested 3324-3390 Zone Tested LKC C-F
 Anchor Length 66 Drill Pipe Run 3316 Mud Wt. 9.2
 Top Packer Depth 3319 Drill Collars Run — Vis 49
 Bottom Packer Depth 3324 Wt. Pipe Run — WL 6.8
 Total Depth 3390 Chlorides 3000 ppm System LCM 2 1/2 #

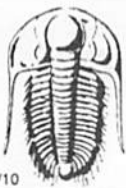
Blow Description IFP - Weak to Strong in 3 min
ISTP - 1" Blow Back
FFP - Weak to Strong in 10 min
FSIP - 1/4" Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>490</u>	<u>GIP</u>				
<u>186</u>	<u>CO</u>				
<u>130</u>	<u>MGO</u>	<u>5</u>	<u>65</u>	<u>30</u>	
<u>175</u>	<u>MGO</u>	<u>5</u>	<u>75</u>	<u>15</u>	<u>5</u>
<u>70</u>	<u>SOC MW</u>	<u>4</u>	<u>91</u>	<u>5</u>	
Rec Total <u>561</u>	BHT <u>101</u>	Gravity <u>29</u>	API RW <u>.08 @ 70</u>	° F Chlorides <u>96000</u>	ppm

(A) Initial Hydrostatic 1603 Test 1150 T-On Location 1635
 (B) First Initial Flow 50 Jars T-Started 1700
 (C) First Final Flow 138 Safety Joint 75 T-Open 1945
 (D) Initial Shut-In 833 Circ Sub T-Pulled 2345
 (E) Second Initial Flow 146 Hourly Standby T-Out 0 238
 (F) Second Final Flow 249 Mileage 65RT 100.75 Comments Slid Tool Approx 6' to Bottom
 (G) Final Shut-In 812 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1582 Straddle Ruined Packer
 Shale Packer Extra Copies
 Extra Packer Sub Total 0
 Extra Recorder Total 1325.75
 Day Standby MP/DST Disc't
 Accessibility Sub Total 1325.75

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Approved By Chris Schmalz Our Representative Ray Schwahn *Thank you*

TriLOBITE TESTING INC. shall not be liable for damaged or destroyed 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. 55348

Well Name & No. Preston #1 Test No. 3 Date 5-19-14
 Company Gore Oil Company Elevation 2120 KB 2112 GL
 Address 202 S. ST FRANCIS PO Box 2757 Wichita, KS 67202-4518
 Co. Rep / Geo. Chuck Schmalz Rig Maverick 108
 Location: Sec. 17 Twp. 9^s Rge. 17^w Co. Rooks State K

Interval Tested 3393-3425 Zone Tested LKC "G"
 Anchor Length 32 Drill Pipe Run 3379 Mud Wt. 9
 Top Packer Depth 3388 Drill Collars Run - Vis 51
 Bottom Packer Depth 3393 Wt. Pipe Run - WL 7.6
 Total Depth 3425 Chlorides 3100 ppm System LCM 4#

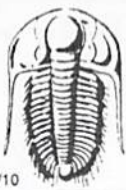
Blow Description TFP - WEAK TO STRONG IN 15min
TSIP - No Blow
FFP - WEAK TO A STRONG Blow IN 35min
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>530</u>	<u>WATER</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 530 BHT 98 Gravity - API RW .07 @ 75 ° F Chlorides 98000 ppm
 (A) Initial Hydrostatic 1641 Test 1150 T-On Location 0900
 (B) First Initial Flow 21 Jars T-Started 0915
 (C) First Final Flow 87 Safety Joint 75 T-Open 1105
 (D) Initial Shut-In 851 Circ Sub T-Pulled 1505
 (E) Second Initial Flow 93 Hourly Standby T-Out 1652
 (F) Second Final Flow 206 Mileage 65RT 100.75 Comments _____
 (G) Final Shut-In 841 Sampler _____
 (H) Final Hydrostatic 1600 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1325.75
 Total 1325.75
 MP/DST Disc't _____

Approved By [Signature] Our Representative LAY 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. 55349

Well Name & No. Preston #1 Test No. 4 Date 5-20-14
 Company Gore Oil Company Elevation 2120 KB 2102 GL
 Address 202 S. ST FRANCIS PO Box 2752 WICHITA, KS 67202-4518
 Co. Rep / Geo. Chuck Schmalz Rig MADDERICK 108
 Location: Sec. 17 Twp. 9^s Rge. 17^w Co. Rooks State Ks

Interval Tested 3418-3530 Zone Tested LKC H-L
 Anchor Length 112 Drill Pipe Run 3409 Mud Wt. 9.2
 Top Packer Depth 3413 Drill Collars Run - Vis 51
 Bottom Packer Depth 3418 Wt. Pipe Run - WL 7.6
 Total Depth 3530 Chlorides 3100 ppm System LCM 5#

Blow Description TFP - Weak Blow 1/4" To SURFACE Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>				

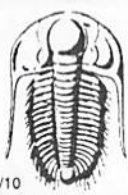
Rec Total 10 BHT 99 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1662 Test 1150 T-On Location 0635
 (B) First Initial Flow 22 Jars T-Started 0655
 (C) First Final Flow 26 Safety Joint 75 T-Open 0820
 (D) Initial Shut-In 794 Circ Sub T-Pulled 1120
 (E) Second Initial Flow 25 Hourly Standby T-Out 1243
 (F) Second Final Flow 27 Mileage 65RT 100.75 Comments _____
 (G) Final Shut-In 689 Sampler _____
 (H) Final Hydrostatic 1634 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1325.75
 MP/DST Disc't _____

Approved By [Signature] Our Representative Ray Schwager Thank you

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55350

Well Name & No. Preston #1 Test No. 5 Date 5-20-14
 Company GORE OIL COMPANY Elevation 2120 KB 2112 GL
 Address 202 S. ST. FRANCIS PO Box 2752 WICHITA, KS 67202-4518
 Co. Rep / Geo. Chuck Schmalz Rig MAVERICK 108
 Location: Sec. 17 Twp. 9^s Rge. 17^w Co. Rooks State Ks

Interval Tested 3528-3603 Zone Tested Congl
 Anchor Length 75 Drill Pipe Run 3525 Mud Wt. 9.2
 Top Packer Depth 3523 Drill Collars Run - Vis 54
 Bottom Packer Depth 3528 Wt. Pipe Run - WL 7.2
 Total Depth 3603 Chlorides 3100 ppm System LCM 4#
 Blow Description I FP - WEAK Blow 1/2" decreased to 1/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

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


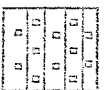
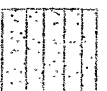





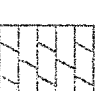
Rec Total 15 BHT 102 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1739</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2015</u>
(B) First Initial Flow <u>23</u>	<input type="checkbox"/> Jars	T-Started <u>2050</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2245</u>
(D) Initial Shut-In <u>111</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0145</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0316</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>65 RT</u> 100.75	Comments
(G) Final Shut-In <u>153</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1699</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30 30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</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>60</u>	<input type="checkbox"/> Day Standby	Total <u>1325.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1325.75</u>	

Approved By [Signature] Our Representative RAY SCHWAGY *Thank you*

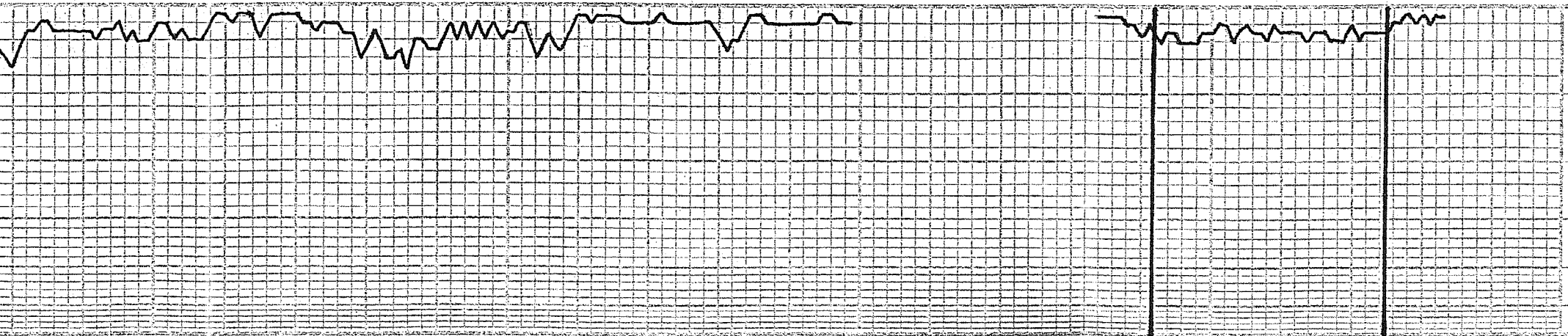
Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost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

LEGEND

- Anhydrite 
- Salt 
- Sandstone 
- Shale 
- Carb sh 
- Limestones 
- Ool. Lime 
- Chert 
- Dolomite 

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases

5" 10" 15" 20" 25"



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS
1450			
60			
70			
80			
90			
1500			
10			
25			
10			
2860			
10			
20			
36			
40			
2850			
60			
76			
80			
90			
2900			
10			
20			

REMARKS

ANHYDRITE - TOP
1475 (+615)
ANHYDRITE - BASE
1508 (+612)

sh: grey, dk grey, few ps brown

ls: as above w/ ls: grey, medshln, mottled, no vis δ , no show

ls: brown, brown-grey, med - med xsh, sil foss, tr dol, no vis δ , no show

sh: lt grey, grey, micaceous s. silty siltstone & yfn argined grey ss, well sorted, app. pr. intergradined δ 's

sh: grey, dolomite in part, w/ abo: grey, dk grey, vshln, no vis δ , no show

ls: tan, grey, fn-medshln, foss in pt, no vis δ , no show; w/ sh: grey calc

ls: tan, fn-medshln, sil foss, apl ps onc w/ or onc δ , no show; ls: grey, reemented ls & foss frags, no vis δ , no show

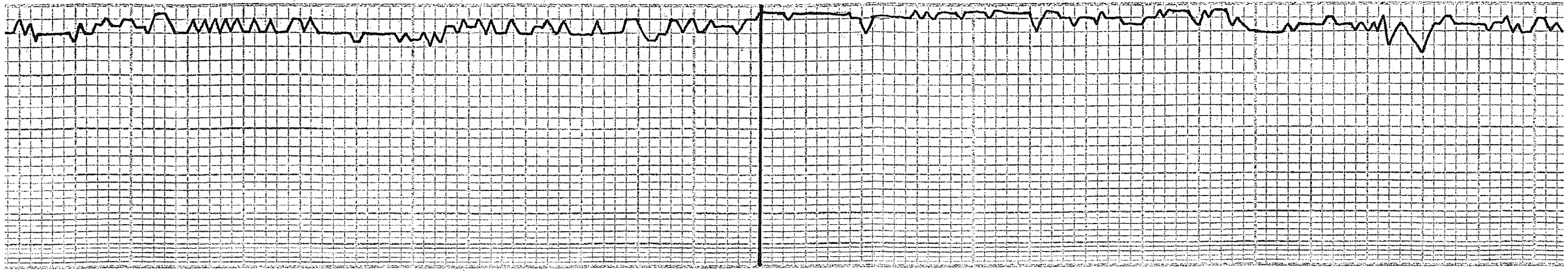
ls: tan, brown, fn-medshln, sil foss, no vis δ , no show

sh & dol as above w/ ls: brown, medshln, foss, fragmental frshln, dol matrix, foss pr intershln, no show

sh: grey dolomite; dolomite, vshln, dk grey, shaley, no vis δ , no show

sh: as above w/ ls: lt brown, grey, fn-medshln, sil foss, dense

sh: pale grey, grey, some brown



2900

ls: as above w/ ls: grey, med xln, mottled, no vis \emptyset , no show

10

sh: grey, dk grey, few pcs brown

ls: brown, grey, fn - med xln, sil foss, v sil \emptyset , no vis \emptyset , no show

30

ls: as above w/ lt grey, grey sh

40

ls: brown, fn - med xln, mottled, sil foss, no vis \emptyset , no show; ls: tan, fn xln, sil chalky, dense

2950

sh: grey, mica.; ss: grey, v fn grnd well sorted, v pr intergrnd \emptyset , ns.

60

sh: lt. grey, grey, few pcs brown \emptyset dk grey, dolomitic. few pcs brown, dk brown, v fn xln, no vis \emptyset

70

ls: tan, dk grey, fn - med xln, v sil \emptyset , fr vpr vuggy \emptyset , no show

80

sh: med grey, w/ ls: tan, interbedded, green sh

90

sh: lt. grey, grey, calc.; few pcs brown

3000

sh: as above w/ few clusters ss: grey, v fn grnd, no vis \emptyset , no show

10

ls: grey, brown, fn - med xln, dense w/ sh: grey, calc.

20

sh: grey, some brown, w/ scat grey, purple-grey, brown, v fn xln, shaley, dol

30

sh: as above: w/ ss: lt grey, v fn - fn grnd well sorted, fine, no vis \emptyset , ns

40

ls: tan, brown, grey, fn - med xln, sil foss, scat vpr interxln \emptyset pr \emptyset , no show

3050

ls: as above w/ ls: micro - v fn xln, dense w/ lt grey, grey sh.

60

ls: brown, grey, med xln, foss, sil mottled, dense; ls: tan, fn xln, chalky in part

70

ls: brown, grey, fn - med xln, foss, mottled, no vis \emptyset , no show

80

ls: tan, brown, fn - med xln, sil foss, no vis \emptyset , no show

90

ls: grey, lt. brown, fn - med xln, mottled in part, few scat \emptyset , no vis \emptyset , no show

3100

ls: brown, fn - med xln, some coil foss, well cemented; ls: grey, med xln, mottled; no vis \emptyset , no show

10

ls: as above w/ sh: grey; sh: green w/ included ls frags

20

ls: tan, brown, grey, micro - med xln, no vis \emptyset , no show; ls: tan, fn xln,

30

sil foss, scat pr interxln & vuggy \emptyset , no show

40

sh: grey, dk grey, w/ ls: brown, fn xln, fr \emptyset , dense

3150

sh: lt. grey, sh: grey w/ ls frags included

60

ls: tan, lt. brown, fn - med xln, \emptyset in part, sil foss, sil chalky, few pcs pr interxln \emptyset , no show

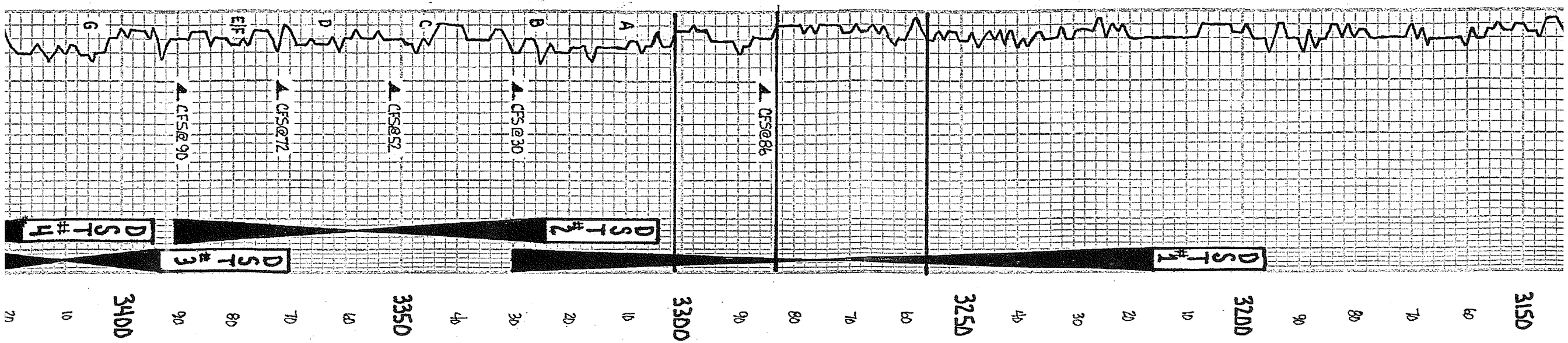
ls: tan, brown, grey, fn - some med xln, dense

70

TOPEKA

3038

(-918)



sh: lt grey, sh: grey w/ ls
Foss. included

ls: tan, lt brown, fr-med xth, oil
in part; sil foss, sil chally, few pcs
pr. interxth @, no show

ls: tan brown, grey, fr. some med
xth, dense

ls: tan, grey, dk grey, fr-med xth,
dense

sh: grey, dk grey
ls: tan, lt brown, fr-med xth, w/
interbedded grey shale
sh: black, dk grey

ls: off wh, tan, fr xth, granular
in part, sil foss, sil chally, scat
pr. interxth, intergranular @, no st,
spur, odor, aut, no show, FD

ls: tan, lt brown, fr. fr xth, sil
foss, dense
ls: tan, lt grey, fr xth, oil in part,
4-5 pcs fr xth w/ pr interxth, interool
@, 55 FD & few gas bubbles, pr. spotty,
to gd even st & sat, no odor

ls: tan brown, fr-med xth, sil foss,
sil chally, few pcs pr interxth @,
no show. ls: grey, med xth, mottled, dense

sh: black, dk grey
ls: tan, fr xth, dense

sh: grey, green, considerable brown rust
cpl. pcs grey, fr xth, shaley, dolomite;
few clinkers grey ss: v. fr. grained, shly
sh: as above w/ few pcs tan, fr xth
ls w/ lt. rust shale, st.

ls: off wh, tan, fr-med xth, chally
in part, no vis @, no show

sh: grey, green, some brown

ls: tan fr-med xth, scat pcs oil
w/ pr-fr interool @ few ppts FD
& cpl gas on break, scat pr lt st
w/ tr sat, few pcs oil Δ w/ weathered
edges & scat lt stain no odor

ls: as above, dec in show, mostly
tan fr xth dense ls w/ grey, grey-
green

sh: grey, green, brown, rust

ls: off wh, tan, fr-med xth, oil in pr,
pr-fr interool & vuggy @, s. EFSD, pr-
fr st w/ patchy sat; dol: brown,
fr xth, pr-fr interxth @, 55 FD, gd
even st & full sat, fr-gd odor

sh: grey, green, some brown
ls: tan, lt brown, fr xth, sil foss, yerv
scat vpr - pr interxth & vuggy @ 2 pcs
w/ rare ppt FD, tr pr spotty st, no odor,
sh: black

ls: brown, fr xth, dense, w/ sh:
grey, green-grey

ls: tan, fr xth, dense, some w/
interbedded grey shale

ls: tan, brown, fr xth, scat pr - fr-fr,
dot & vuggy @, VS, 55 FD, scat pr-fr
st w/ scat patchy sat, Δ w/ lt grm,
fresh, opaque, scat weathered edges
secondary quartz along veins & on
faces w/ lime oil st, gd odor; @ CFS-90

ls: tan, fr xth, oil & dol. in part, scat
pr ool & vuggy @, 55 FD, pr spotty st,
tr pr sat, gd odor.

DST #1
(3216 - 3330)
30" - 60" - 30" - 60"
LFP: BK 1/2" BLDW
FPP: NO BLDW
RECOVERED:
45' 5" MCW
(10% M, 90% W)
GHL: 73000 PPM, SYS: 1600 PPM
HSP: 1553# - 1520#
FP: 17-31# / 30-40#
SIP: 981# - 973#
BHT: 99°F

HEEBNER
3256 (-1136)

TORONTO
3283 (-1163)

LANSING
3301 (-1181)

DST #2
(3324 - 3390)
30" - 60" - 60" - 90"
LFP: BLDW IN 3"
LSP: BLDW BLDG TO 1"
FPP: BOB IN 10"
FSP: BLDW BLDG TO 1/4"
RECOVERED:
490' GIP
180' 2D - Gr 29°
130' 5GCMO
(5% GAS, 30% MUD, 65% OIL)
175' 5GM & WCD
(5% GAS, 5% MUD, 15% WTR, 75% OIL)
76' 5D & MCW
(4% OIL, 5% MUD, 91% WTR)
GHL: 96000 PPM, SYS: 2000 PPM
HSP: 1603# - 1582#
FP: 50-138 / 46-219#
SIP: 833# - 812#
BHT: 101°F

DST #3
(3393 - 3425)
30" - 60" - 60" - 90"
LFP: BOB IN 15"
LSP: NO BLDW
GEO. RND " 2"

DST#3
 (3393-3425)
 30"-60"-60"-90"
 IFP: 60B IN 15"
 15IP: NO BLDW
 FFP: 90B IN 35"
 F5IP: NO BLDW
RECOVERED:
53D WTR
 CHL: 98DD PPM SVS: 31DD PPM
HSP: 1641# - 16DD #
FP: 21# 67# 93# 206 #
SIP: 851# (84) #
BHT: 98°F

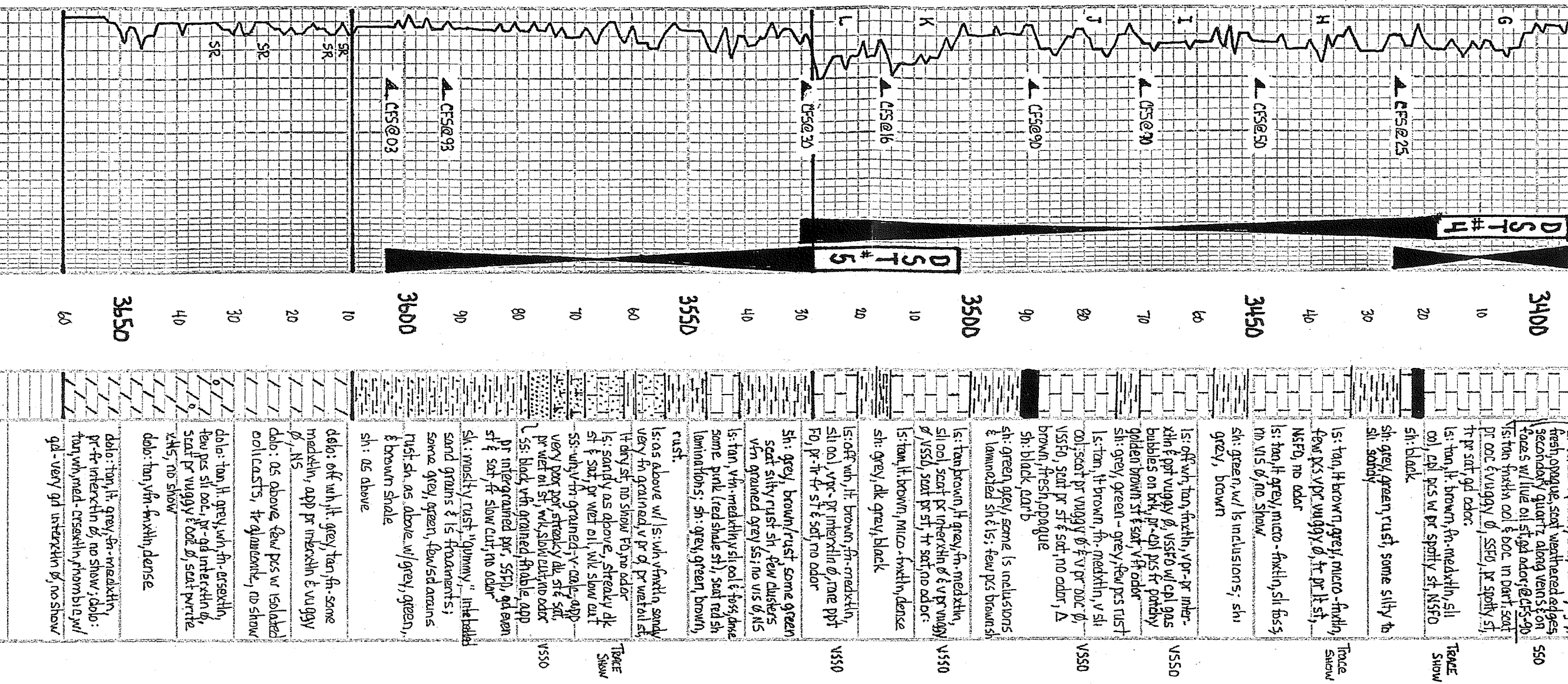
DST#4
 (3418-353D)
 30"-60"-30"-60"
 IFP: 1/4" BLDW
 FFP: NO BLDW
RECOVERED:
10' MUD
HSP: 1662# - 1634 #
FP: 22# 26# 25# 27#
SIP: 794# - 689 #
BHT: 99°F

BKC
3528 (-1408)

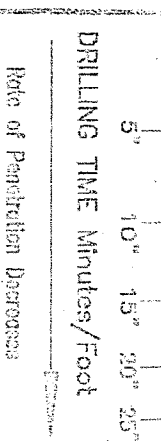
DST#5
 (3528-36D3)
 30"-60"-30"-60"
 IFP: 1/2" BLDW DEL TO 1/4"
 FFP: NO BLDW
RECOVERED:
15' MUD
HSP: 1739# - 1699 #
FP: 23# 25# 26# 28 #
SIP: 111# - 153 #
BHT: 102°F

ARBUCKLE
3609 (-1489)

RTD 366D (-154D)
LTD 3658 (-1538)



DRILLING TIME Minutes/Foot	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
5"	3528		ls: off wh, lt. brown fn. med. xthn, sil. ool, v. pr. pr. interstn of, trace ppt FD, pr. fr. st & sat, no odor	BKC 3528 (-1408)
10"	3550		sh: grey, brown/rust, some green scat silty rust sh, few clusts vfn grained grey ss, no vis of NS	DST # 5 (3528 - 3603) 30" 60" - 30" 60" IFD: 1/2" BLDW DEL TD 1/4" EFP: NO BLDW
15"	3550		ls: tan, vfn. med. xthn sil. ool & foss, some pink (red shale st), scat red sh laminations; sh: grey, green, brown, rust.	RECOVERED: 15' MUD HSP: 1739# - 1699# FP: 23# 25# 26# 28# SIP: 111# - 153# BHT: 102° F
20"	3600		ls: as above w/ ls. vfn. xthn sandy very fn grained, v. pr. q. pr. wet oil st, dry st, no show FD, no odor	TABLE SHOW
25"	3600		ls: sandy as above, streaky dk st & sat, pr. wet oil, w/ slow cut	
30"	3600		ss: wh. vfn. grained, y. ool, app. very poor por, streaky dk st & sat, pr. wet oil st, w/ slow cut, no odor	
35"	3600		ss: black, vfn. grained, friable, app. dr. intergrained por, SSFD, gd even st & sat, fr. slow cut, no odor	
40"	3600		sh: mostly rust "gummy", interbedded sand grains & ls fragments; some grey, green, few ssd arans	ARBUCKLE 3609 (-1489)
45"	3600		rust sh. as above, w/ grey, green, & brown shale	
50"	3600		sh: as above	
55"	3650		dolo: off wh. lt. grey, tan, fn. some med. xthn, app. pr. interstn & v. v. gy of, NS	
60"	3650		dolo: as above, few pcs w/ isolated ool. casts, fr. granular, no show	
65"	3650		dolo: tan, lt. grey, wh. fn. cr. xthn, few pcs sil. ool., pr. -gd interstn of, scat pr. v. v. gy & ool. of, scat pr. v. v. xthn, no show	
70"	3650		dolo: tan, vfn. fr. xthn, dense	
75"	3650		dolo: tan, lt. grey, fr. med. xthn, pr. fr. interstn of, no show; dolo: tan, wh. med. cr. xthn, fr. om. b. 12, w/ gd - very gd interstn of, no show	RTD 3660 (-1540) LTD 3658 (-1538)
80"	3650			
85"	3650			
90"	3650			
95"	3650			
100"	3650			
105"	3650			
110"	3650			
115"	3650			
120"	3650			
125"	3650			
130"	3650			
135"	3650			
140"	3650			
145"	3650			
150"	3650			
155"	3650			
160"	3650			
165"	3650			
170"	3650			
175"	3650			
180"	3650			
185"	3650			
190"	3650			
195"	3650			
200"	3650			



Rate of Penetration Diagrams

DRILLING TIME Minutes/Foot

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

QIL SHOWS

TABLE SHOW

ARBUCKLE

3609 (-1489)

RTD 3660 (-1540)

LTD 3658 (-1538)

DST # 5

(3528 - 3603)

30" 60" - 30" 60"

IFD: 1/2" BLDW DEL TD 1/4"

EFP: NO BLDW

RECOVERED:

15' MUD

HSP: 1739# - 1699#

FP: 23# 25# 26# 28#

SIP: 111# - 153#

BHT: 102° F

BKC

3528 (-1408)

DST # 5

(3528 - 3603)

30" 60" - 30" 60"

IFD: 1/2" BLDW DEL TD 1/4"

EFP: NO BLDW

RECOVERED:

15' MUD

HSP: 1739# - 1699#

FP: 23# 25# 26# 28#

SIP: 111# - 153#

BHT: 102° F

BKC

3528 (-1408)

TABLE SHOW

ARBUCKLE

3609 (-1489)

RTD 3660 (-1540)

LTD 3658 (-1538)

DST # 5

(3528 - 3603)

30" 60" - 30" 60"

IFD: 1/2" BLDW DEL TD 1/4"

EFP: NO BLDW

RECOVERED:

15' MUD

HSP: 1739# - 1699#

FP: 23# 25# 26# 28#

SIP: 111# - 153#

BHT: 102° F

BKC

3528 (-1408)