



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1160235
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: _____



1160235

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
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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
<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: 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

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	Hartman Oil Co., Inc.
Well Name	Todd Brooks 1-19
Doc ID	1160235

All Electric Logs Run

Microlog
Array Compensated True Resistivity
Spectral Density Dual Space Neutron
Borehole Compensated Sonic Array

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 15, 2013

Stan Mitchell
Hartman Oil Co., Inc.
10500 E BERKELEY SQ PKWY STE 100
WICHITA, KS 67206

Re: ACO1
API 15-137-20661-00-00
Todd Brooks 1-19
SW/4 Sec.19-05S-22W
Norton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Stan Mitchell



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 138699
Invoice Date: Sep 21, 2013
Page: 1

Bill To:
Hartman Oil Co., Inc. H2 Drilling & H2 Trucking 3545 W. Jones Avenue Garden City, KS 67846

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Hart	54731	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Sep 21, 2013	10/21/13

Quantity	Item	Description	Unit Price	Amount
		Todd Brooks #1-19 81540		
206.00	CEMENT MATERIALS	Class A Common	17.90	3,687.40
4.00	CEMENT MATERIALS	Gel	23.40	93.60
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
222.60	CEMENT SERVICE	Cubic Feet	2.48	552.05
731.66	CEMENT SERVICE	Ton Mileage	2.60	1,902.32
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
72.00	CEMENT SERVICE	Pump Truck Mileage	7.70	554.40
72.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	316.80
1.00	CEMENT SUPERVISOR	Glenn Ginther		
1.00	EQUIPMENT OPERATOR	Woody O'Neil		
1.00	OPERATOR ASSISTANT	Joe Goodson		

DA
A. V. Mubet
9-30-13

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1,813.36

ONLY IF PAID ON OR BEFORE
Oct 16, 2013

Subtotal	9,066.82
Sales Tax	291.80
Total Invoice Amount	9,358.62
Payment/Credit Applied	
TOTAL	9,358.62

ALLIED OIL & GAS SERVICES, LLC 054731

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE <u>9-21-13</u>	SEC. <u>19</u>	TWP. <u>5</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00 AM</u>	JOB FINISH <u>4:30 AM</u>
LEASE <u>TODD BRACKS</u>	WELL # <u>1-19</u>	LOCATION <u>Hin City 16N 18E</u>			COUNTY <u>Horton</u>	STATE <u>KANSAS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR H² DRG. Rig # 2 OWNER _____

TYPE OF JOB Cement Surface

HOLE SIZE 12 1/4 T.D. 340

CASING SIZE 8 5/8 DEPTH 336

TUBING SIZE _____ DEPTH _____

DRILL PIPE 32 1/4 DEPTH _____

TOOL 1 1/2 DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15-20'

PERFS. _____

DISPLACEMENT 20.75 / BBL

EQUIPMENT _____

CEMENT AMOUNT ORDERED	<u>206 sx Comm.</u>		
	<u>3% cc.</u>		
	<u>2% Gel</u>		
COMMON	<u>206 sx</u>	@ <u>17.90</u>	<u>3682.40</u>
POZMIX		@	
GEL	<u>4 sx</u>	@ <u>23.40</u>	<u>93.60</u>
CHLORIDE	<u>7 sx</u>	@ <u>64.00</u>	<u>448.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>222.60</u>	@ <u>2.48</u>	<u>552.09</u>
MILEAGE	<u>731.66</u>	@ <u>2.60</u>	<u>1902.33</u>
		TOTAL	<u>6683.36</u>

PUMP TRUCK CEMENTER GLENN G.

417 HELPER WOODY O.

BULK TRUCK

473 DRIVER JOE G.

BULK TRUCK

_____ DRIVER _____

REMARKS:

Ran 8 New Joints RE 24 # 8 5/8 CSG.

Set @ 336 Received Circulation

+ Cement w/ 206 sx Comm. 3+2,

+ Displace. 20 1/2 BBL SHOT IN

@ 300#

Cement DID CIRCULATE

TO SURFACE

THANKS

SERVICE			
DEPTH OF JOB			<u>336</u>
PUMP TRUCK CHARGE			<u>1512.25</u>
EXTRA FOOTAGE	@		
MILEAGE <u>116 MI 72</u>	@ <u>2.70</u>		<u>554.40</u>
MANIFOLD	@		
<u>LVMT 72</u>	@ <u>4.40</u>		<u>316.80</u>
	@		
		TOTAL	<u>2383.45</u>

CHARGE TO: HARTMAN Oil Company Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

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 Jose Carlos Fabro

SIGNATURE Jose Carlos Fabro

SALES TAX (If Any)	
TOTAL CHARGES	<u>9066.81</u>
DISCOUNT	<u>1813.36</u> IF PAID IN 30 DAYS
	<u>Net \$ 7253.45</u>

FILE COPY



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co INC**

10050 Berkeley SQ PKWY
STE 100
Wichita KS 67206

ATTN: Kitt Noah

Todd Brooks #1-19

19-5s-22w Norton,KS

Start Date: 2013.09.24 @ 23:12:20

End Date: 2013.09.25 @ 05:25:59

Job Ticket #: 54828 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.27 @ 08:56:40

Hartman Oil Co INC
19-5s-22w Norton,KS
Todd Brooks #1-19
DST # 1
LKC 50 Zn
2013.09.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co INC
 10050 Berkeley SQ PKWY
 STE 100
 Wichita KS 67206
 ATTN: Kitt Noah

19-5s-22w Norton,KS
Todd Brooks #1-19
 Job Ticket: 54828 **DST#: 1**
 Test Start: 2013.09.24 @ 23:12:20

GENERAL INFORMATION:

Formation: **LKC 50 Zn**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:37:50
 Time Test Ended: 05:25:59
 Interval: **3450.00 ft (KB) To 3474.00 ft (KB) (TVD)**
 Total Depth: 3474.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 49
 Reference Elevations: 2236.00 ft (KB)
 2225.00 ft (CF)
 KB to GR/CF: 11.00 ft

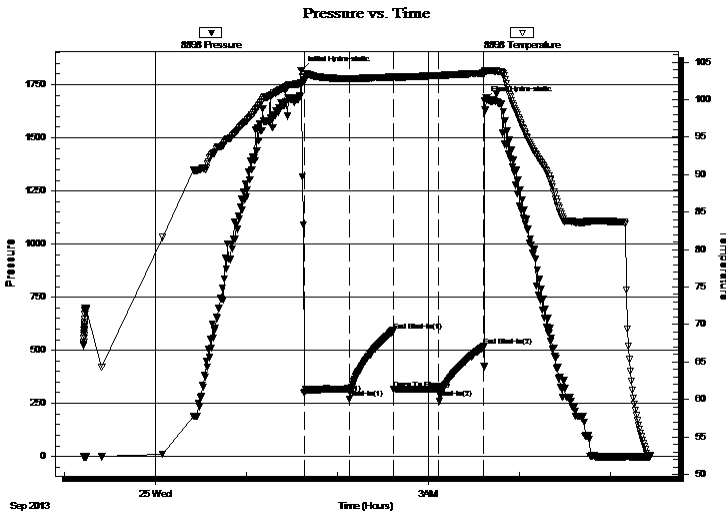
Serial #: 8898

Inside

Press @ Run Depth: 317.25 psig @ 3451.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.24 End Date: 2013.09.25 Last Calib.: 2013.09.25
 Start Time: 23:12:21 End Time: 05:26:00 Time On Btm: 2013.09.25 @ 01:35:50
 Time Off Btm: 2013.09.25 @ 03:36:59

TEST COMMENT: B.O.B. in 30 sec. slid 15 ft.
 Dead no blow back
 Dead no blow
 Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.29	102.21	Initial Hydro-static
2	296.46	102.40	Open To Flow (1)
32	315.17	102.81	Shut-In(1)
61	592.00	103.01	End Shut-In(1)
62	315.53	102.92	Open To Flow (2)
91	317.25	103.23	Shut-In(2)
121	517.64	103.53	End Shut-In(2)
122	1676.22	103.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
550.00	100%M	4.39

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co INC
10050 Berkeley SQ PKWY
STE 100
Wichita KS 67206
ATTN: Kitt Noah

19-5s-22w Norton,KS
Todd Brooks #1-19
Job Ticket: 54828 **DST#: 1**
Test Start: 2013.09.24 @ 23:12:20

Tool Information

Drill Pipe:	Length: 3073.00 ft	Diameter: 3.80 inches	Volume: 43.11 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: 20000.00 lb
Drill Collar:	Length: 365.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 44.91 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3450.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 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			3428.00	
Hydraulic tool	5.00			3433.00	
Jars	5.00			3438.00	
Safety Joint	2.00			3440.00	
Packer	5.00			3445.00	27.00 Bottom Of Top Packer
Packer	5.00			3450.00	
Stubb	1.00			3451.00	
Recorder	0.00	8898	Inside	3451.00	
Recorder	0.00	8897	Outside	3451.00	
Perforations	20.00			3471.00	
Bullnose	3.00			3474.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co INC

19-5s-22w Norton,KS

10050 Berkeley SQ PKWY
STE 100
Wichita KS 67206
ATTN: Kitt Noah

Todd Brooks #1-19

Job Ticket: 54828

DST#: 1

Test Start: 2013.09.24 @ 23:12:20

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 5.39 in³

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
550.00	100%M	4.390

Total Length: 550.00 ft Total Volume: 4.390 bbl

Num Fluid Samples: 0

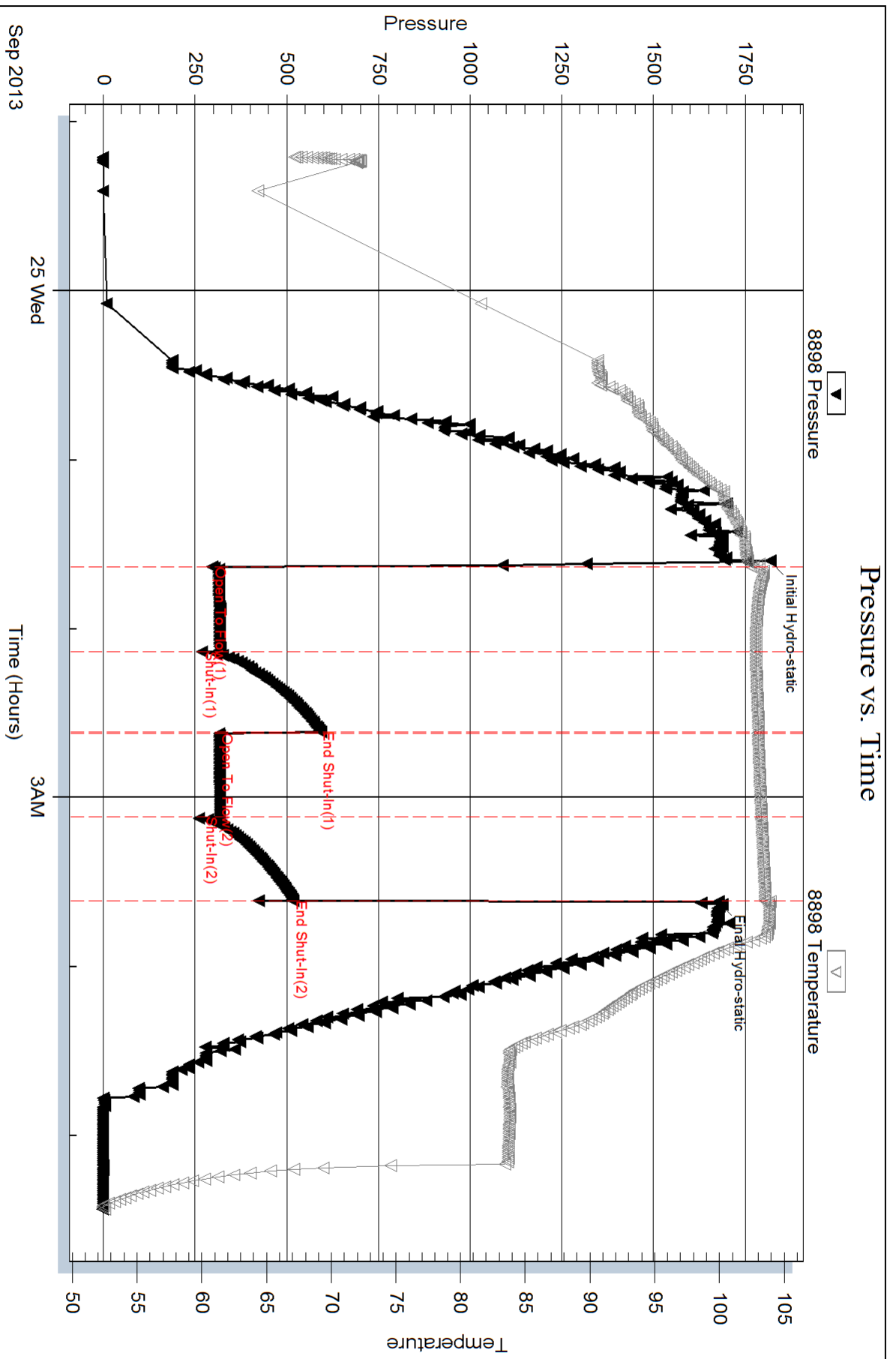
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

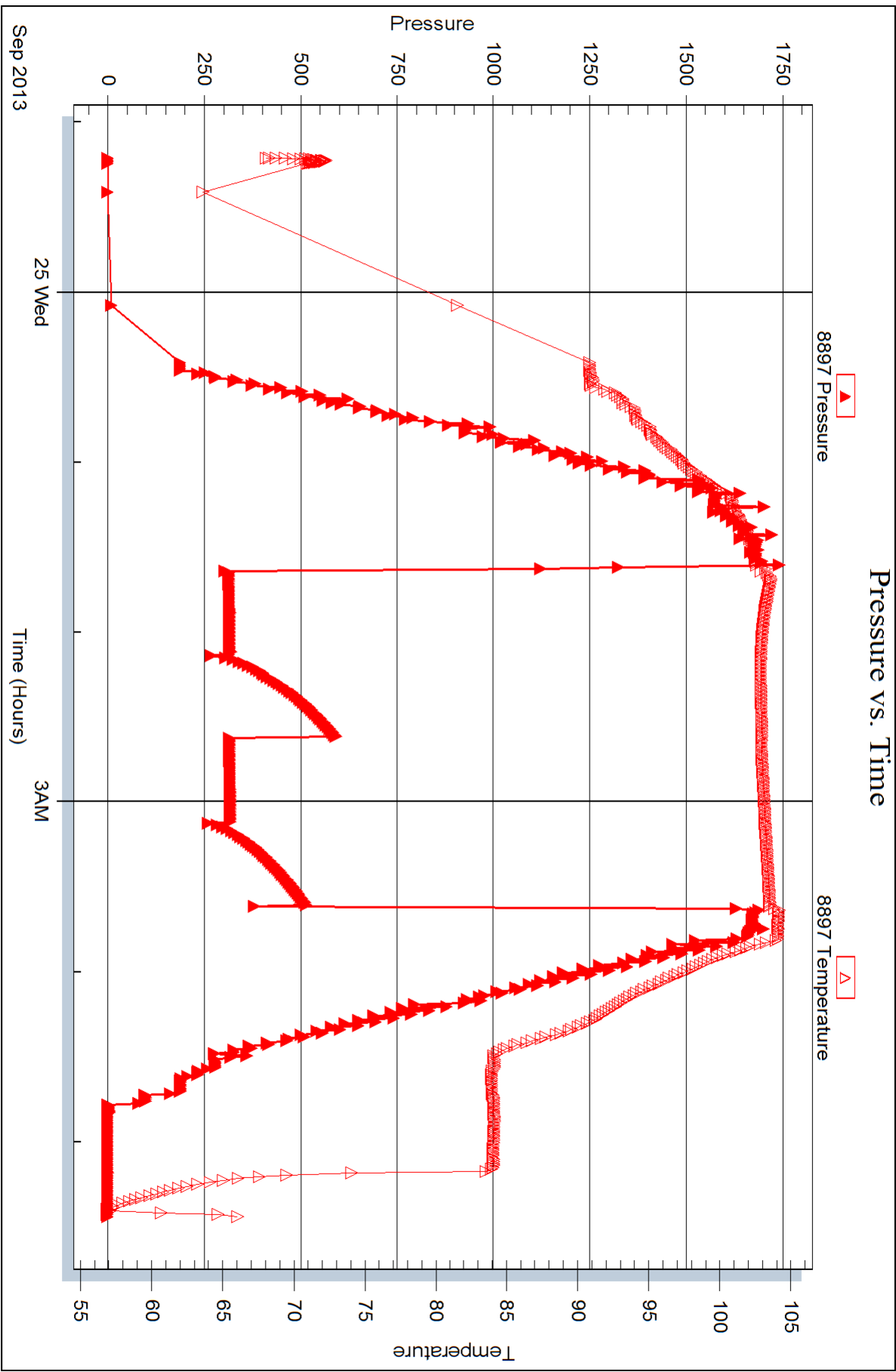


Serial #: 8897

Outside Hartman Oil Co INC

Todd Brooks #1-19

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co INC**

10050 Berkeley SQ PKWY
STE 100
Wichita KS 67206

ATTN: Kitt Noah

Todd Brooks #1-19

19-5s-22w Norton,KS

Start Date: 2013.09.25 @ 22:39:31

End Date: 2013.09.26 @ 04:37:31

Job Ticket #: 54829 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.27 @ 08:56:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co INC
 10050 Berkeley SQ PKWY
 STE 100
 Wichita KS 67206
 ATTN: Kitt Noah

19-5s-22w Norton, KS
Todd Brooks #1-19
 Job Ticket: 54829 **DST#: 2**
 Test Start: 2013.09.25 @ 22:39:31

GENERAL INFORMATION:

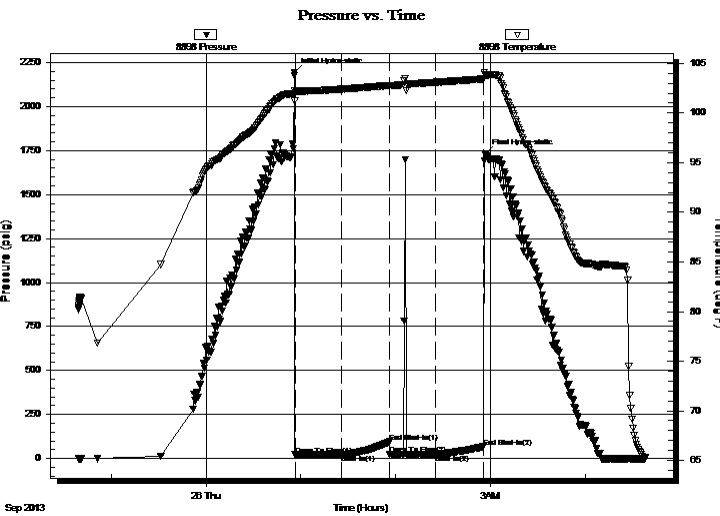
Formation: **LKC 180 zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:56:11
 Time Test Ended: 04:37:31
 Interval: **3539.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 49
 Reference Elevations: 2236.00 ft (KB)
 2225.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8898

Outside

Press @ Run Depth: 25.43 psig @ 3542.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.25 End Date: 2013.09.26 Last Calib.: 2013.09.26
 Start Time: 22:39:32 End Time: 04:37:31 Time On Btm: 2013.09.26 @ 00:56:01
 Time Off Btm: 2013.09.26 @ 02:56:21

TEST COMMENT: Weak surface blow deid in 5 mins. Slid 6 ft.
 Dead no blow back
 Dead no blow flushed tool after 10 mins surge blow then died
 Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.82	102.22	Initial Hydro-static
1	20.44	101.24	Open To Flow (1)
30	22.34	102.41	Shut-In(1)
60	94.66	102.77	End Shut-In(1)
61	22.71	102.74	Open To Flow (2)
89	25.43	103.10	Shut-In(2)
120	66.55	103.42	End Shut-In(2)
121	1731.58	103.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co INC
 10050 Berkeley SQ PKWY
 STE 100
 Wichita KS 67206
 ATTN: Kitt Noah

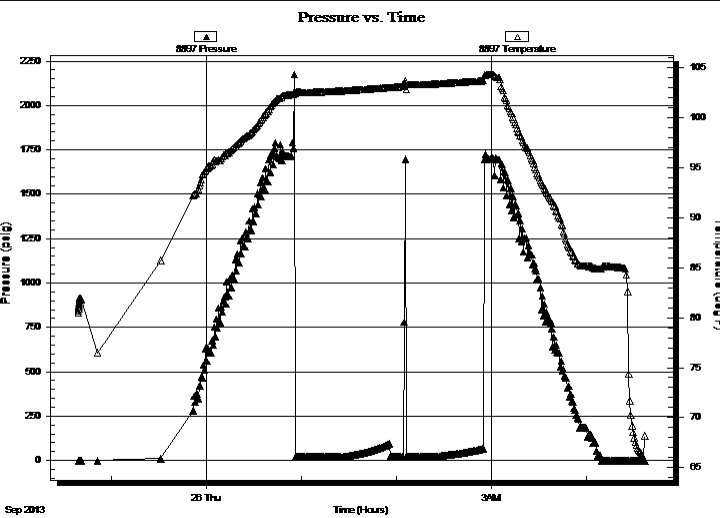
19-5s-22w Norton,KS
Todd Brooks #1-19
 Job Ticket: 54829 **DST#: 2**
 Test Start: 2013.09.25 @ 22:39:31

GENERAL INFORMATION:

Formation: **LKC 180 zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:56:11
 Time Test Ended: 04:37:31
 Interval: **3539.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 49
 Reference Elevations: 2236.00 ft (KB)
 2225.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8897 Inside
 Press @ Run Depth: psig @ 3542.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.25 End Date: 2013.09.26 Last Calib.: 2013.09.26
 Start Time: 22:39:23 End Time: 04:37:22 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak surface blow deid in 5 mins. Slid 6 ft.
 Dead no blow back
 Dead no blow flushed tool after 10 mins surge blow then died
 Dead no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co INC
10050 Berkeley SQ PKWY
STE 100
Wichita KS 67206
ATTN: Kitt Noah

19-5s-22w Norton,KS
Todd Brooks #1-19
Job Ticket: 54829 **DST#: 2**
Test Start: 2013.09.25 @ 22:39:31

Tool Information

Drill Pipe:	Length: 3171.00 ft	Diameter: 3.80 inches	Volume: 44.48 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: 20000.00 lb
Drill Collar:	Length: 365.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 77000.00 lb
			<u>Total Volume: 46.28 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3539.00 ft			Final 59000.00 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
Shut In Tool	5.00			3517.00	
Hydraulic tool	5.00			3522.00	
Jars	5.00			3527.00	
Safety Joint	2.00			3529.00	
Packer	5.00			3534.00	27.00 Bottom Of Top Packer
Packer	5.00			3539.00	
Stubb	1.00			3540.00	
Perforations	2.00			3542.00	
Recorder	0.00	8897	Inside	3542.00	
Recorder	0.00	8898	Outside	3542.00	
Perforations	25.00			3567.00	
Bullnose	3.00			3570.00	31.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co INC

19-5s-22w Norton,KS

10050 Berkeley SQ PKWY
STE 100
Wichita KS 67206
ATTN: Kitt Noah

Todd Brooks #1-19

Job Ticket: 54829

DST#: 2

Test Start: 2013.09.25 @ 22:39:31

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

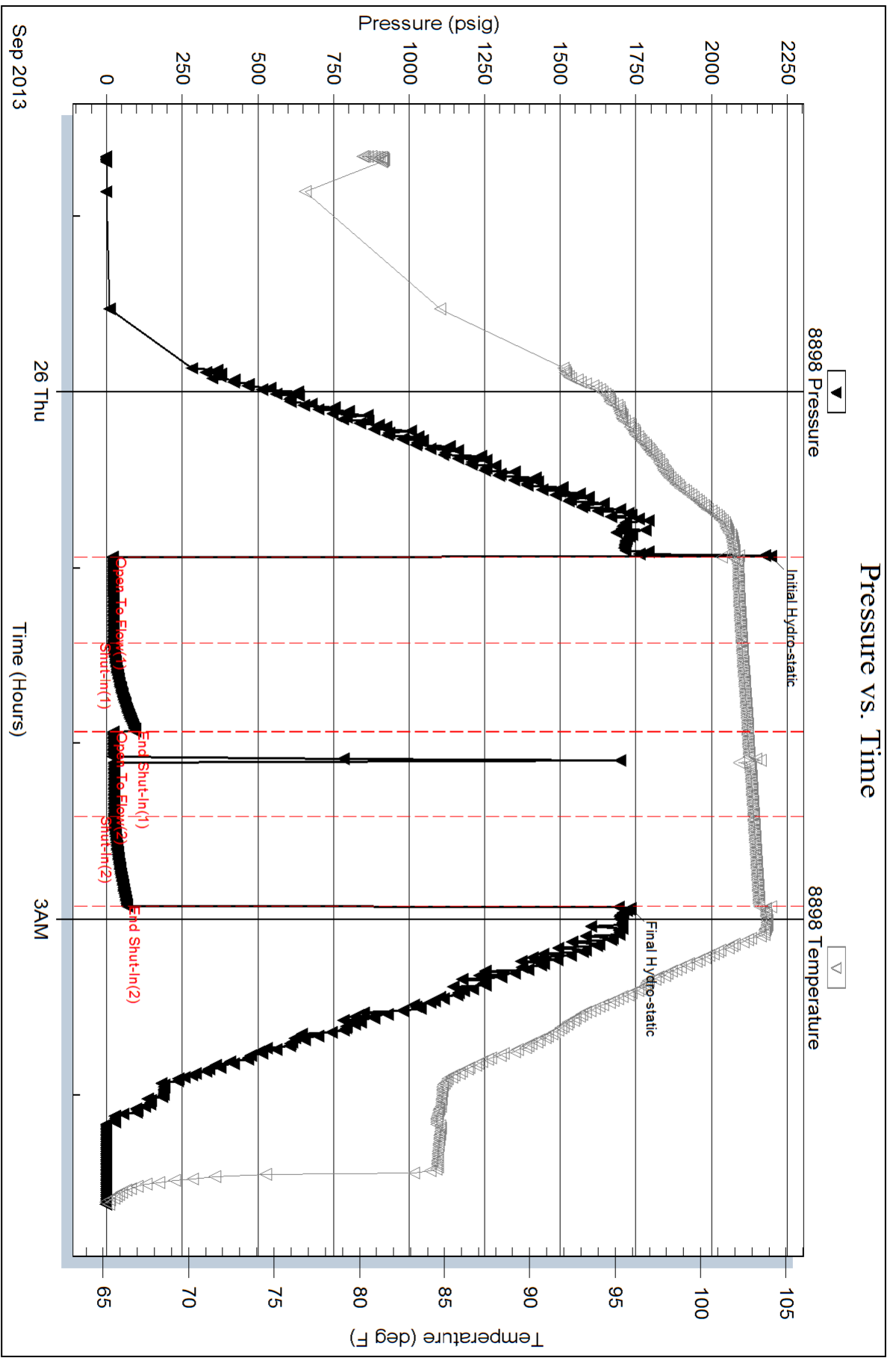
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



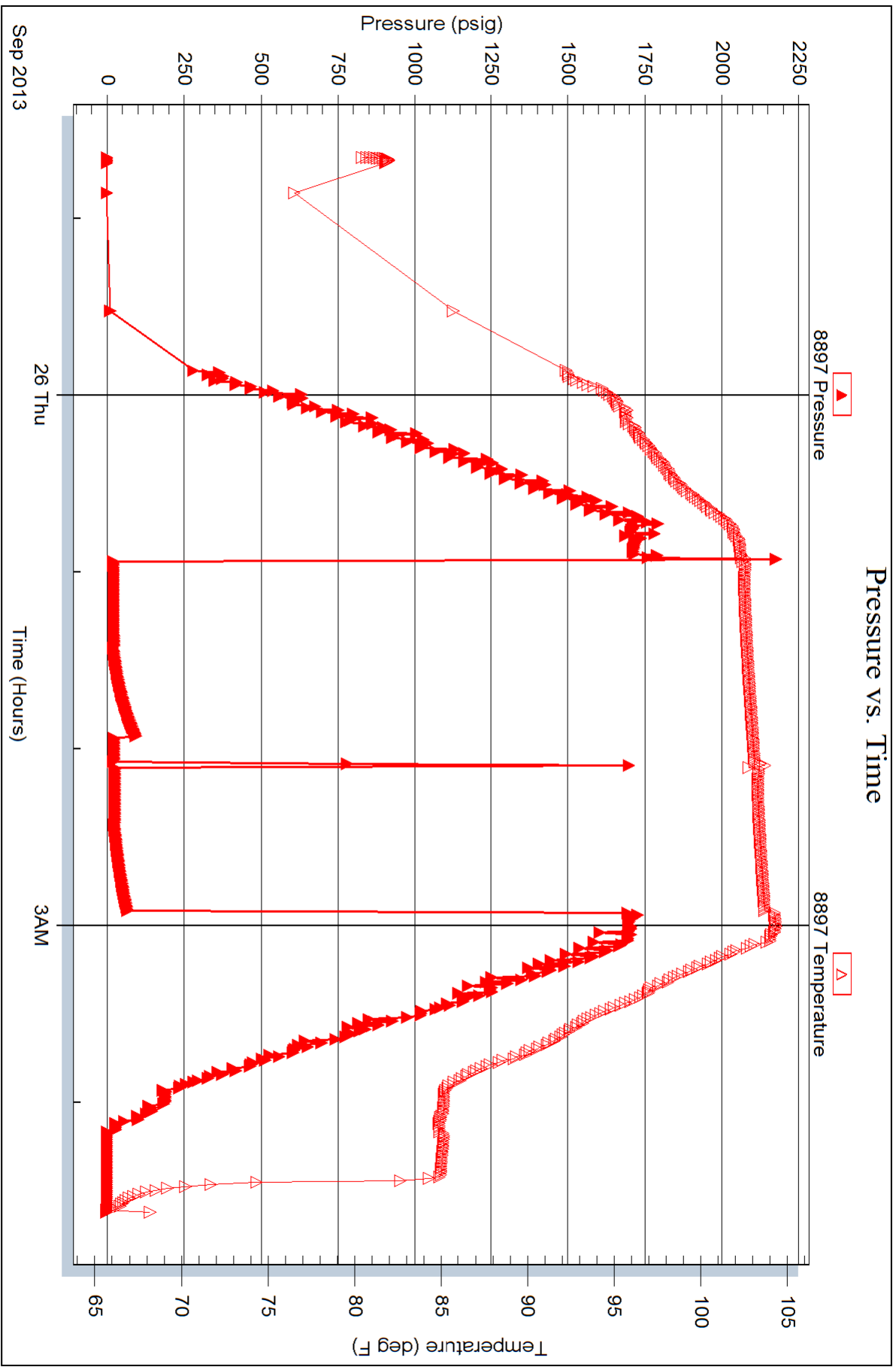
Serial #: 8897

Inside

Hartman Oil Co INC

Todd Brooks #1-19

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54828

Well Name & No. Todd Brooks #1-19 Test No. 1 Date 9-24-13
 Company Hartman Oil Co. INC. Elevation 2236 KB 2225 GL
 Address 10500 E Berkeley SQ PKWay, STE 100 Wichita KS, 67206
 Co. Rep / Geo. Mitt Noah Rig H2 Rig #1
 Location: Sec. 19 Twp. 5S Rge. 22W Co. Norton State KS

Interval Tested 3450 3474 Zone Tested LHC 50 2N
 Anchor Length 24' Drill Pipe Run 3073 Mud Wt. 8.9
 Top Packer Depth 3446 Drill Collars Run 365 Vis 54
 Bottom Packer Depth 3450 Wt. Pipe Run 0 WL 5.4
 Total Depth 3474 Chlorides 1200 ppm System LCM 3#

Blow Description B.O.B. In 30 sec. slid 15 ft.
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>550</u>	<u>mud</u>				<u>100</u>

Rec Total 550 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1817 Test 1150 T-On Location 20:20
 (B) First Initial Flow 296 Jars 250 T-Started 23:12
 (C) First Final Flow 315 Safety Joint 75 T-Open 01:38
 (D) Initial Shut-In 592 Circ Sub _____ T-Pulled 03:38
 (E) Second Initial Flow 316 Hourly Standby _____ T-Out 05:25
 (F) Second Final Flow 317 Mileage 154 R/A 108rt 167.40 Comments _____
 (G) Final Shut-In 518 Sampler _____
 (H) Final Hydrostatic 1676 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1792.40
 Final Shut-In 30 Accessibility 150 MP/DST Disc't _____
 Sub Total 1792.40

Approved By _____ Our Representative [Signature]

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. 54829

Well Name & No. Todd Brooks #1-19 Test No. 2 Date 9-25-13
 Company Hartman Oil Co. Inc. Elevation 2236 KB 2225 GL
 Address 10500 Berkeley SQ PkWay STE 100 Wichita KS, 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig #1
 Location: Sec. 19 Twp. 5S Rge. 22W Co. Norton State KS

Interval Tested 3539 3570 Zone Tested LML 180 zn
 Anchor Length 31 Drill Pipe Run 317 Mud Wt. 9.0
 Top Packer Depth 3534 Drill Collars Run 365 Vis 58
 Bottom Packer Depth 3539 Wt. Pipe Run 0 WL 5.4
 Total Depth 3570 Chlorides 1100 ppm System LCM 3#

Blow Description Went surface blow died in 5mins. Slid 6ft.
Dead no blow back
Dead no blow Flushed tool after 10 mins surge blow died
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>18" mud</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides ~~ppm~~ ppm
 (A) Initial Hydrostatic 2195 Test 1150 T-On Location 21:00
 (B) First Initial Flow 20 Jars 250 T-Started 22:39
 (C) First Final Flow 22 Safety Joint 75 T-Open 00:55
 (D) Initial Shut-In 95 Circ Sub _____ T-Pulled 02:55
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 04:35
 (F) Second Final Flow 25 Mileage 154 RT X2 Comments Loaded tools
 (G) Final Shut-In 67 Sampler _____ @ 04:00 DU 92713
 (H) Final Hydrostatic 1732 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1959.80
 Accessibility 150 MP/DST Disc't _____
 Sub Total 1959.80

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

Approved By _____ Our Representative [Signature] Thanks

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.