



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1223425
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: _____

1223425

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	Bahm 2-2
Doc ID	1223425

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	Bahm 2-2
Doc ID	1223425

Tops

Name	Top	Datum
Stark	4250	-1127
Hush	4296	--1173
B/KC	4335	-1212
Marmaton	4377	-1254
Pawnee	4478	-1355
Myrick Sta	4508	-1385
Ft Scott	4526	-1403
Cherokee	4553	-1430
Johnson Zone	4609	-1486
Mississippian	4724	-1601
LTD	4900	-1777



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 145500
Invoice Date: Sep 6, 2014
Page: 1

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

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
Hart	64191	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 6, 2014	10/6/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bahm #2-2 <i>86221</i>		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
423.00	CEMENT MATERIALS	Gel	0.50	211.50
635.00	CEMENT MATERIALS	Chloride	1.10	698.50
243.30	CEMENT SERVICE	Cubic Feet Charge	2.48	603.38
610.72	CEMENT SERVICE	Ton Mileage Charge	2.75	1,679.48
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
55.00	CEMENT SERVICE	Pump Truck Mileage	7.70	423.50
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
55.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	242.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

**NEW WELL
DRILLED**

A. V. Metcher
9-16-14

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

\$ 2,515.00

ONLY IF PAID ON OR BEFORE
Oct 6, 2014

Subtotal	9,673.11
Sales Tax	402.41
Total Invoice Amount	10,075.52
Payment/Credit Applied	
TOTAL	10,075.52



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co., Inc.**

10500 E. Berkeley Sq. Pkwy.
STE 100
Wichita, KS 67206

ATTN: Kitt Noah

Bahm #2 -2

2-16S 35w Wichita,KS

Start Date: 2014.09.10 @ 11:57:00

End Date: 2014.09.10 @ 21:06:40

Job Ticket #: 57386 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 08:54:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.

2-16S 35w Wichita,KS

10500 E. Berkeley Sq. Pkw y.
STE 100
Wichita, KS 67206
ATTN: Kitt Noah

Bahm #2 -2

Job Ticket: 57386

DST#: 1

Test Start: 2014.09.10 @ 11:57:00

GENERAL INFORMATION:

Formation: **L/KC ,C,**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:41:50

Time Test Ended: 21:06:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 61

Interval: 4002.00 ft (KB) To 4027.00 ft (KB) (TVD)

Reference Elevations: 3123.00 ft (KB)

Total Depth: 4027.00 ft (KB) (TVD)

3112.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8357

Inside

Press@RunDepth: 118.36 psig @ 4004.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.10

End Date: 2014.09.10

Last Calib.: 2014.09.10

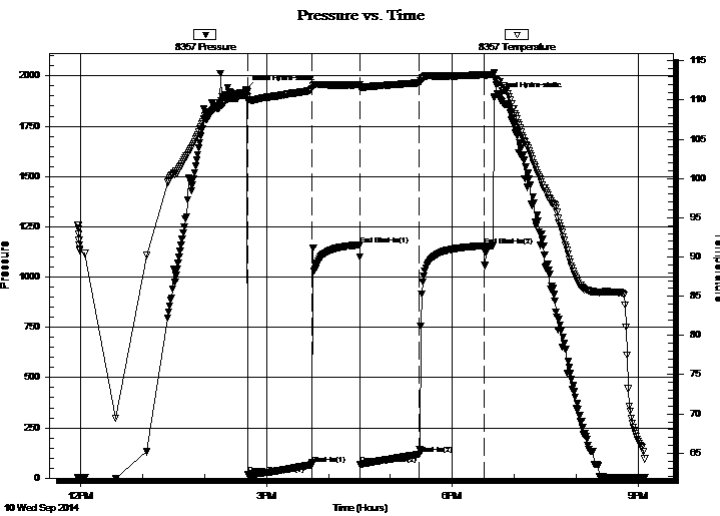
Start Time: 11:57:02

End Time: 21:06:40

Time On Btm: 2014.09.10 @ 14:40:10

Time Off Btm: 2014.09.10 @ 18:40:30

TEST COMMENT: 60 2 1/2" Blow Tool Slid 5'
45 No Return Accidentally flushed tool due to tight slip/bushing.
60 1" Blow
60 No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.76	110.49	Initial Hydro-static
2	17.11	109.87	Open To Flow (1)
64	66.60	111.42	Shut-In(1)
110	1160.16	111.97	End Shut-In(1)
111	69.65	111.61	Open To Flow (2)
168	118.36	112.19	Shut-In(2)
231	1155.81	113.22	End Shut-In(2)
241	1896.61	113.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	MW 10m 90w Oil spots in tool.	2.67

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co., Inc.

2-16S 35w Wichita,KS

10500 E. Berkeley Sq. Pkw y.
STE 100
Wichita, KS 67206
ATTN: Kitt Noah

Bahm #2 -2

Job Ticket: 57386

DST#: 1

Test Start: 2014.09.10 @ 11:57:00

Tool Information

Drill Pipe:	Length: 3755.00 ft	Diameter: 2.25 inches	Volume: 18.47 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 3.80 inches	Volume: 3.51 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume:</u> 21.98 bbl	Tool Chased	ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4002.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	52.50 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			3975.50	
Shut In Tool	5.00			3980.50	
Hydraulic tool	5.00			3985.50	
Jars	5.00			3990.50	
Safety Joint	2.50			3993.00	
Packer	5.00			3998.00	27.50 Bottom Of Top Packer
Packer	4.00			4002.00	
Stubb	1.00			4003.00	
Perforations	1.00			4004.00	
Recorder	0.00	8357	Inside	4004.00	
Recorder	0.00	6751	Outside	4004.00	
Perforations	20.00			4024.00	
Bullnose	3.00			4027.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

2-16S 35w Wichita,KS

10500 E. Berkeley Sq. Pkw y.
STE 100
Wichita, KS 67206
ATTN: Kitt Noah

Bahm #2 -2

Job Ticket: 57386

DST#: 1

Test Start: 2014.09.10 @ 11:57:00

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:

43000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	MW 10m 90w Oil spots in tool.	2.665

Total Length: 190.00 ft Total Volume: 2.665 bbl

Num Fluid Samples: 0

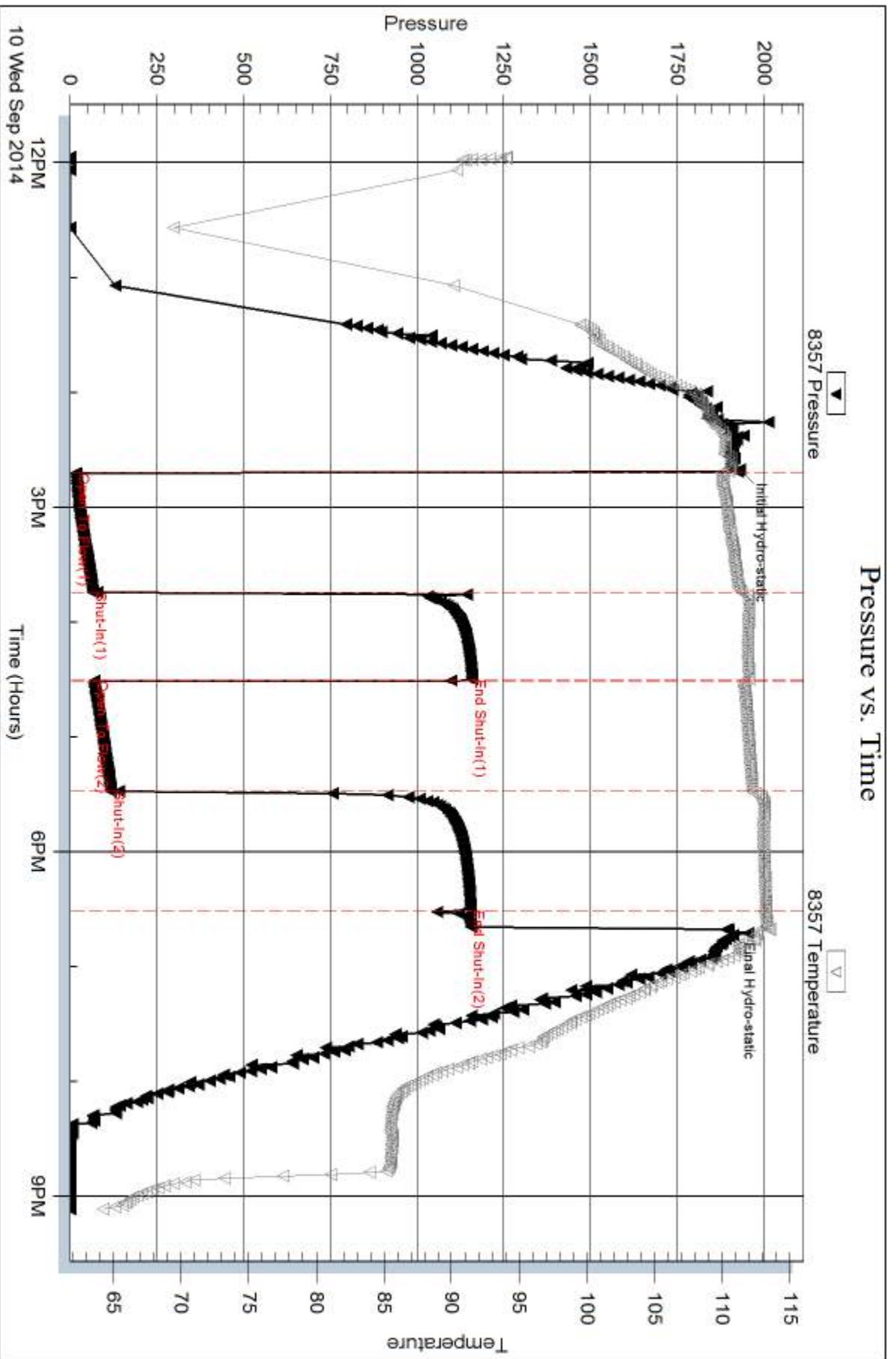
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .207 @ 59 Degrees F = 43000 PPM

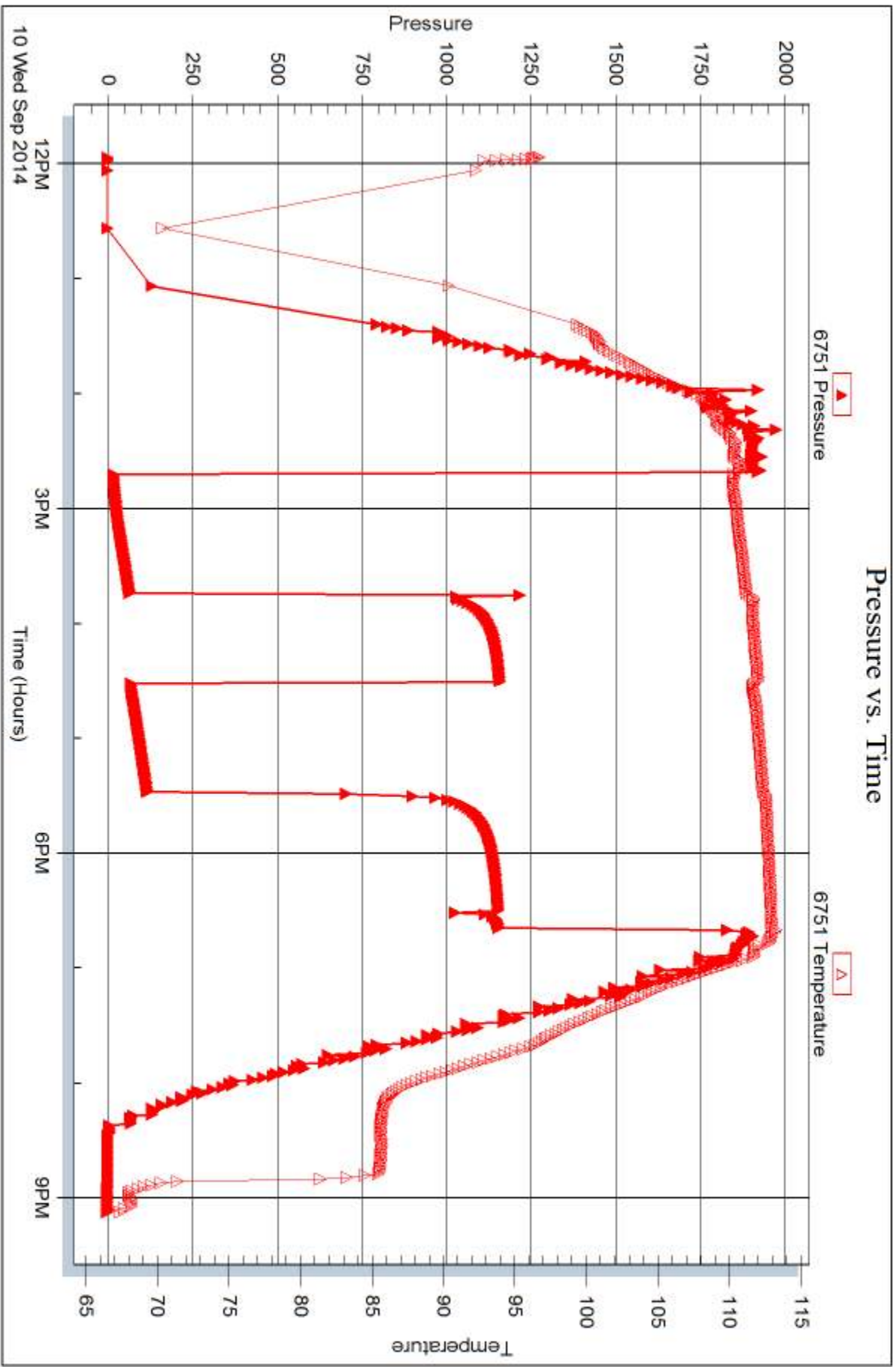


Serial #: 6751

Outside Hartman Oil Co., Inc.

Bahm #2 -2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57386

Printed: 2014.09.16 @ 08:54:09



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co., Inc.**

10500 E. Berkeley Sq. Pkwy.
STE 100
Wichita, KS 67206

ATTN: Kitt Noah

Bahm #2 -2

2-16S 35w Wichita,KS

Start Date: 2014.09.11 @ 18:58:00

End Date: 2014.09.12 @ 03:04:20

Job Ticket #: 57387 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 08:53:40



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.

2-16S 35w Wichita,KS

10500 E. Berkeley Sq. Pkw y.
STE 100
Wichita, KS 67206
ATTN: Kitt Noah

Bahm #2 -2

Job Ticket: 57387

DST#: 2

Test Start: 2014.09.11 @ 18:58:00

GENERAL INFORMATION:

Formation: **L, KC 'I'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:59:10
 Time Test Ended: 03:04:20
 Interval: **4192.00 ft (KB) To 4228.00 ft (KB) (TVD)**
 Total Depth: 4228.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 61
 Reference Elevations: 3123.00 ft (KB)
 3112.00 ft (CF)
 KB to GR/CF: 11.00 ft

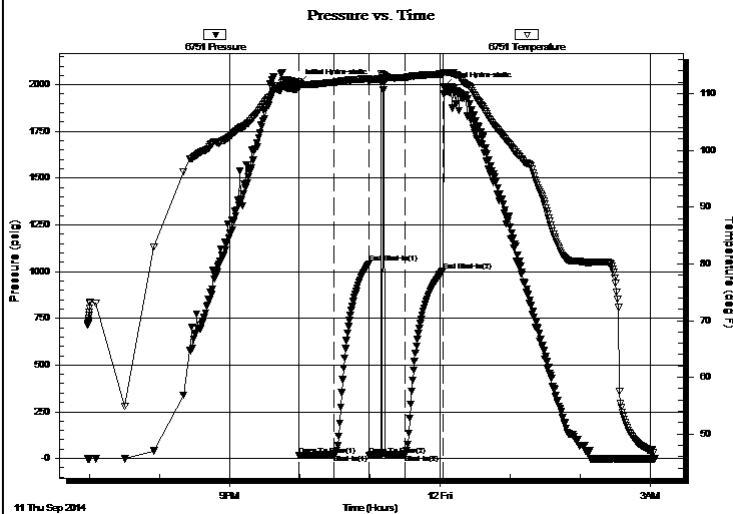
Serial #: 6751

Outside

Press@RunDepth: 23.84 psig @ 4196.00 ft (KB)
 Start Date: 2014.09.11 End Date: 2014.09.12
 Start Time: 18:58:02 End Time: 03:04:19
 Capacity: 8000.00 psig
 Last Calib.: 2014.09.12
 Time On Btm: 2014.09.11 @ 21:59:00
 Time Off Btm: 2014.09.12 @ 00:03:39

TEST COMMENT: 30 Weak Blow Died @ 8 min.
 30 No Return
 30 No Blow / Flush Tool / No Blow
 30 No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.87	112.07	Initial Hydro-static
1	16.35	110.94	Open To Flow (1)
30	19.50	112.00	Shut-In(1)
61	1043.80	112.66	End Shut-In(1)
61	18.40	112.12	Open To Flow (2)
92	23.84	112.86	Shut-In(2)
124	1005.02	113.47	End Shut-In(2)
125	1992.10	113.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100m	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

Hartman Oil Co., Inc.

2-16S 35w Wichita,KS

10500 E. Berkeley Sq. Pkw y.
STE 100
Wichita, KS 67206
ATTN: Kitt Noah

Bahm #2 -2

Job Ticket: 57387

DST#: 2

Test Start: 2014.09.11 @ 18:58:00

Tool Information

Drill Pipe:	Length: 3947.00 ft	Diameter: 2.25 inches	Volume: 19.41 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 3.80 inches	Volume: 3.51 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 22.92 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	32.50 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4192.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	63.50 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			4165.50	
Shut In Tool	5.00			4170.50	
Hydraulic tool	5.00			4175.50	
Jars	5.00			4180.50	
Safety Joint	2.50			4183.00	
Packer	5.00			4188.00	27.50 Bottom Of Top Packer
Packer	4.00			4192.00	
Stubb	1.00			4193.00	
Perforations	3.00			4196.00	
Recorder	0.00	8357	Inside	4196.00	
Recorder	0.00	6751	Outside	4196.00	
Perforations	29.00			4225.00	
Bullnose	3.00			4228.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

2-16S 35w Wichita,KS

10500 E. Berkeley Sq. Pkw y.
STE 100
Wichita, KS 67206
ATTN: Kitt Noah

Bahm #2 -2

Job Ticket: 57387

DST#: 2

Test Start: 2014.09.11 @ 18:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 3000.00 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
15.00	OSM 100m	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

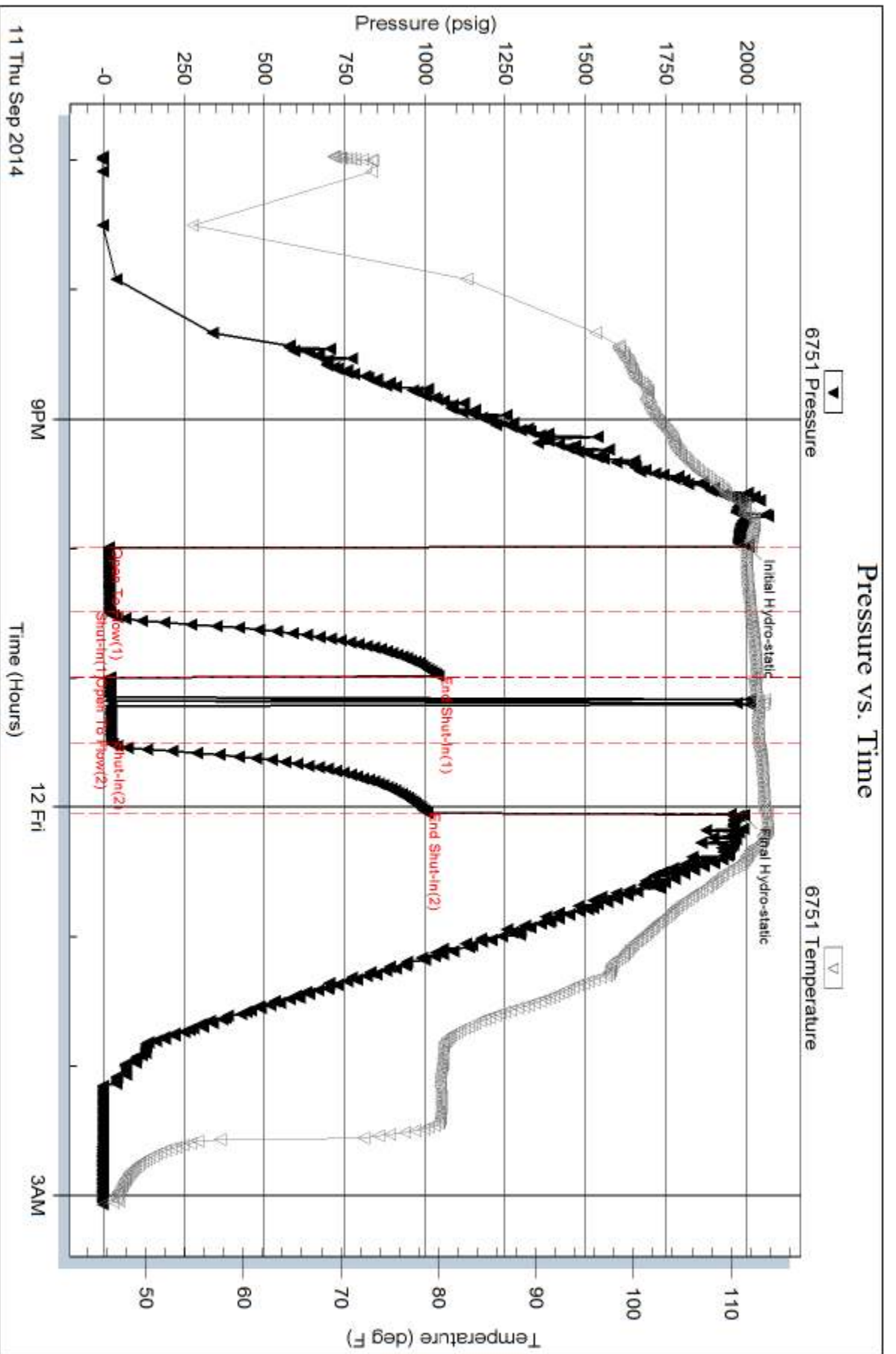
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



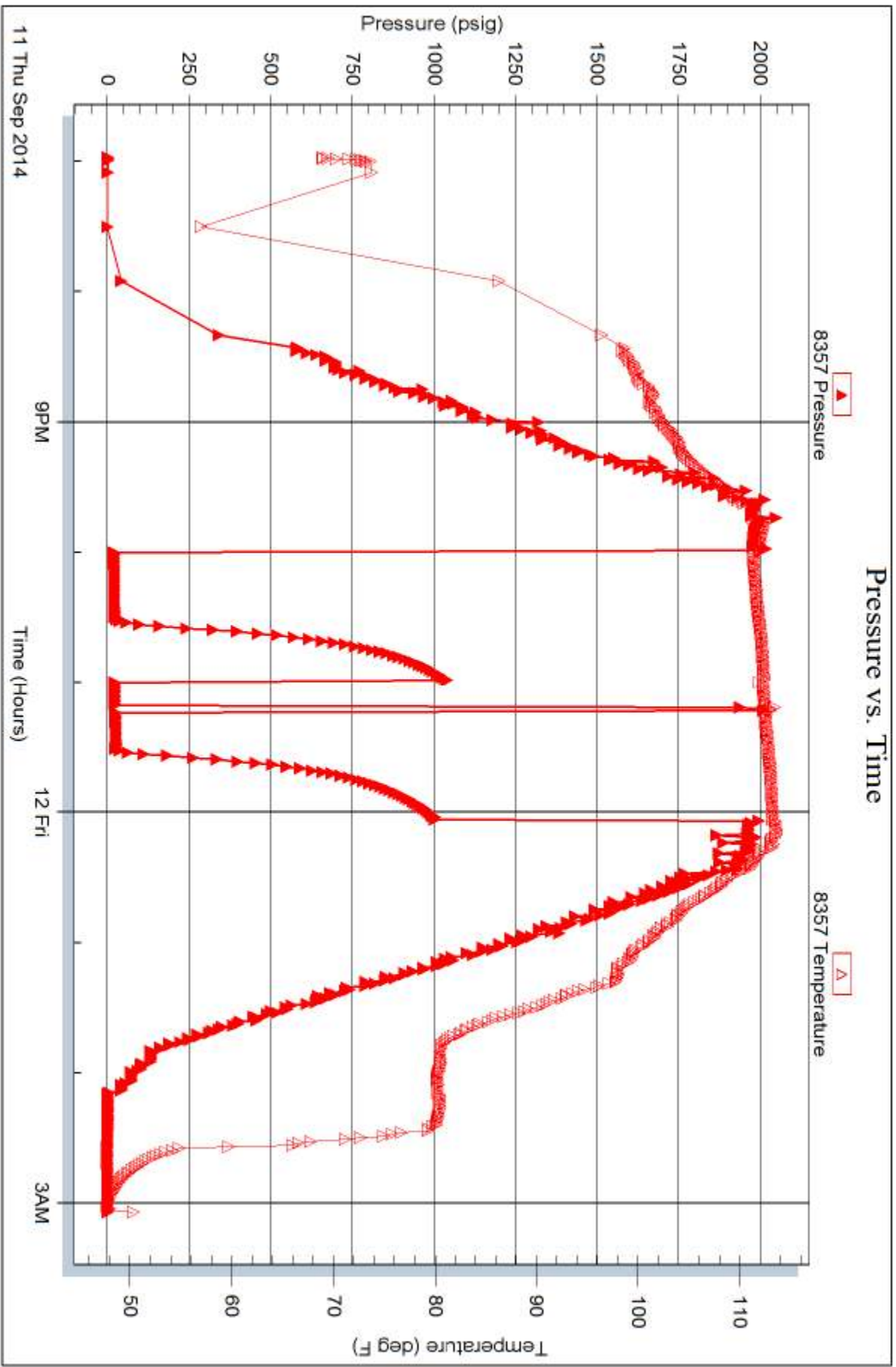
Serial #: 8357

Inside

Hartman Oil Co., Inc.

Bahm #2 -2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57387

Printed: 2014.09.16 @ 08:53:41



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57386

Well Name & No. Bahn 2-2 Test No. 1 Date 9-10-14
 Company Hartman Oil Co., Inc. Elevation 3123 KB 3112 GL
 Address 10500 E. Berkeley Sq. Pkwy. STE 100 Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2#2
 Location: Sec. 2 Twp. 16S Rge. 35W Co. Wichita State Ks

Interval Tested 4002-4027 Zone Tested LKC 'C'
 Anchor Length 25 Drill Pipe Run 3755 Mud Wt. 9.3
 Top Packer Depth 3998 Drill Collars Run 250 Vis 53
 Bottom Packer Depth 4002 Wt. Pipe Run 0 WL 6.4
 Total Depth 4027 Chlorides 4000 ppm System LCM 2"
 Blow Description 2 1/2" Blow. Tool slid 5' Accidentally flushed tool right slip/bushing.
NO RETURN
1" Blow
NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>190</u>	Feet of <u>MW oil spots in tool.</u>	%gas	%oil <u>90</u>	%water <u>10</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 190 BHT 113 Gravity — API RW 207 @ 59 ° F Chlorides 43000 ppm

(A) Initial Hydrostatic <u>1931</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:04</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:57</u>
(C) First Final Flow <u>67</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:42</u>
(D) Initial Shut-In <u>1160</u>	<input checked="" type="checkbox"/> Circ Sub <u>NK</u>	T-Pulled <u>18:31</u>
(E) Second Initial Flow <u>70</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1h 100</u>	T-Out <u>21:07</u>
(F) Second Final Flow <u>118</u>	<input checked="" type="checkbox"/> Mileage <u>63RT 97.65</u>	Comments <u>Rig to be on bank 10:45</u>
(G) Final Shut-In <u>1156</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1897</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>60</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1922.65</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1922.65</u>	

Approved By _____ Our Representative Chuck Smith
 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. 57387

Well Name & No. Bahn 2-2 Test No. 2 Date 9-11-14
 Company Hartman Oil Co., Inc. Elevation 3123 KB 3112 GL
 Address 10500 E. Berkeley Sq. Pkwy. STE 100 Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2#2
 Location: Sec. 2 Twp. 16s Rge. 35w Co. Wichita State KS

Interval Tested 4192 - 4228 Zone Tested LKC 'I'
 Anchor Length 36 Drill Pipe Run 3947 Mud Wt. 9.2
 Top Packer Depth 4188 Drill Collars Run 250 Vis 56
 Bottom Packer Depth 4192 Wt. Pipe Run 0 WL 6.4
 Total Depth 4228 Chlorides 3000 ppm System LCM 2#

Blow Description Weak blow died @ 8 min.
No return.
No blow, flushed tool, no blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>15</u>	Feet of <u>OSM</u>				<u>100</u> %mud

Rec Total 15 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2006</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:35</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:58</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:00</u>
(D) Initial Shut-In <u>1044</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>00:03</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>3:04</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>63RT</u> 97.65	Comments <u>picked up tools</u>
(G) Final Shut-In <u>1005</u>	<input type="checkbox"/> Sampler <u>97.65</u>	<u>9-13-14 15:30 No test.</u>
(H) Final Hydrostatic <u>1992</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>800</u>
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 12.5h</u>	Total <u>2720.30</u>
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1920.30</u>	

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 Training

ALLIED OIL & GAS SERVICES, LLC 064197

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, Ky

DATE <u>9/15/14</u>	SEC. <u>2</u>	TWP. <u>46</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30</u>	JOB FINISH <u>4:30</u>
LEASE <u>6/1/11</u>	WELL # <u>22</u>	LOCATION <u>Pence W70 B073 3W E 170</u>	COUNTY <u>Wichita</u>	STATE <u>Ky</u>			
OLD OR NEW (Circle one)							

CONTRACTOR H & T
 TYPE OF JOB Prod. 2 Stage
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2 15 1/2 DEPTH 4885'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL DW DEPTH 2485' - 143
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 45.15
 PERFS. Bottom 5 7/8" @ 61' depth
 DISPLACEMENT Top 5 9/16" @ 120'

OWNER Same
 CEMENT
 AMOUNT ORDERED 150 ALUMINUM 1/4 PLO
150 Com 1090 Seal 277 gal
500 Alum 1/4 PLO Seal 500 Alum 1072 Seal 277 gal
 COMMON 200 SK @ 17.20 3500.00
 POZMIX _____ @ _____
 GEL 376 lb @ .50 188.00
 CHLORIDE _____ @ _____
 ASC _____ @ _____
Alum 1/4 PLO
62140 870 gal 600 SK @ 19.80 1209.60
Salt 1040 @ .68 707.20
Gilwhite 250 lb @ 1.98 495.00
Floreal 163 lb @ 2.92 475.76
 HANDLING 971 @ .48 465.48
 MILEAGE 25 miles @ 40.75 1018.75
 TOTAL 5603.12

EQUIPMENT
 PUMP TRUCK CEMENTER Alan Ryan
 # 423-2891 HELPER Kevin Ryan
 BULK TRUCK
 # 566 DRIVER George Grant
 BULK TRUCK
 # 373 DRIVER Trent (TJ)

REMARKS:
Inject broke when plug hit?
On Case Circulate, Am 150 SK Alum 1/4 PLO Seal, Treated
150 Alum 1090 Seal 277 gal, Wash Tank, Displace Plug
4 1/2 8 1/2 @ 61' OBL Alum 1090 Seal 277 gal
Pressure went to 1500, Shut down 7 min, Plug stuck 1500
on 700 @ 800 @ 900 @ 1000 @ 1100 @ 1200 @ 1300 @ 1400 @ 1500
150 Alum 1090 Seal 277 gal, Treated 50 SK Alum 1090 Seal 277 gal
Wash Tank, Displace Plug 60' @ 1100 @ 800 PSIG
Good Plug @ 2100 Tool Closed
Cement did Circulate
Trent & George

CHARGE TO: Hortman Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE TOTAL 17,628.31
 TOTAL 14,063.83
(3656.59 / 263)

PLUG & FLOAT EQUIPMENT
 DW Tool 5335.00
 Latch blank _____ @ _____
 1/4" Float shoe _____ @ _____
 Baskets _____ @ _____
 Controllers 10 @ 57.00 570.00
 TOTAL 7,905.00

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

SALES TAX (If Any) _____
 TOTAL CHARGES 39,593.14
 DISCOUNT 8,239.95 (263) IF PAID IN 30 DAYS
31,353.18 Net.

PRINTED NAME STEVEN CRAIG
 SIGNATURE Steven Craig