



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090524
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: _____

1090524

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: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	Dowell 1-33
Doc ID	1090524

Tops

Name	Top	Datum
Heebner	3662	-1045
Lansing	3700	-1083
B/KC	4042	-1425
Marmaton	4057	-1440
Pawnee	4146	-1529
Ft Scott	4208	-1591
Cherokee	4232	-1615
Johnson Zone	4276	-1659
Mississippi	4321	-1704
LTD	4390	-1773



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 132342
Invoice Date: Aug 14, 2012
Page: 1



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

85030

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Hart	Dowell #1-33	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Aug 14, 2012	9/13/12

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
8.00	MAT	Gel	21.25	170.00
55.00	MAT	Flo Seal	2.70	148.50
236.28	SER	Cubic Feet	2.10	496.19
523.11	SER	Ton Mileage	2.35	1,229.31
1.00	SER	Plug to Abandon	1,250.00	1,250.00
53.00	SER	Pump Truck Mileage	7.00	371.00
53.00	SER	Light Vehicle Mileage	4.00	212.00
1.00	EQP	8.5/8 Top Wooden Plug	92.00	92.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	D J Gray		

DA

[Signature]
8-27-12

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

\$ 1372.40

ONLY IF PAID ON OR BEFORE
Sep 8, 2012

Subtotal	6,862.00
Sales Tax	552.39
Total Invoice Amount	7,414.39
Payment/Credit Applied	
TOTAL	7,414.39

ALLIED OIL & GAS SERVICES, LLC 056668

Federal Tax I.D.# 20-5976804

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

SERVICE POINT:

Dakley

DATE <u>8-14-12</u>	SEC <u>33</u>	TWP <u>15</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00 AM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Dowell</u>	WELL # <u>1-33</u>	LOCATION <u>23 HWY Grove + Lane CL 3W -</u>			COUNTY <u>Grove</u>	STATE <u>Ks.</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)		<u>N into</u>					

CONTRACTOR H2 #2

TYPE OF JOB PIA

HOLE SIZE 7 7/8 T.D. 2020'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2020'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSC. _____

PERFS. _____

DISPLACEMENT 2.5.16

OWNER Same

CEMENT AMOUNT ORDERED 220 SKs 60/40 4% Gel 1/4 Fibers

COMMON	<u>132 SKs</u>	@ <u>\$16.25</u>	<u>\$2145.00</u>
POZMIX	<u>88 SKs</u>	@ <u>\$8.00</u>	<u>\$704.00</u>
GEL	<u>8 SKs</u>	@ <u>\$21.25</u>	<u>\$170.00</u>
CHLORIDE		@	
ASC		@	
<u>Flo Seal</u>	<u>55#</u>	@ <u>\$2.70</u>	<u>\$148.50</u>
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>236.28 CR</u>	@ <u>\$2.10</u>	<u>\$496.19</u>
MILEAGE	<u>9.87 x 59 x</u>	@ <u>\$2.25</u>	<u>\$1227.91</u>
TOTAL			<u>\$4977.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Drum Pacelle 1

423-281 HELPER Tyler Ellipse 2

BULK TRUCK

404 DRIVER DS Gray 3

BULK TRUCK

_____ DRIVER _____

REMARKS:

mix 25 SKs Cement 2020'

mix 100 SKs Cement 960'

mix 40 SKs Cement 420'

mix 10 SKs Cement 40'

Plug mouse hole 15 SKs Cement

Plug Rat hole 22 SKs Cement

Thank You.

523.11

SERVICE

DEPTH OF JOB	<u>2020'</u>		
PUMP TRUCK CHARGE		@	<u>\$1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>59</u>	@ <u>\$7.00</u>	<u>\$371.00</u>
MANIFOLD		@	
<u>L.V mileage</u>		@ <u>\$4.00</u>	<u>\$212.00</u>
		@	
TOTAL			<u>\$1833.00</u>

CHARGE TO: Hartman Oil

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>1 Top Wooden Plug</u>	@	<u>\$92.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>\$92.00</u>

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

SALES TAX (If Any)	<u>552.39</u>
TOTAL CHARGES	<u>6,862.00</u>
DISCOUNT	<u>20 1372.40</u>

IF PAID IN 30 DAYS

PRINTED NAME DS

SIGNATURE

8.05
oil

1.03

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

Sam Brownback, Governor

September 10, 2012

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

Re: ACO1
API 15-063-22026-00-00
Dowell 1-33
NW/4 Sec.33-15S-29W
Gove 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



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206

ATTN: Kitt Noah

Dowell #1-33

33-15s-29w Gove,KS

Start Date: 2012.08.10 @ 17:40:00

End Date: 2012.08.11 @ 01:47:30

Job Ticket #: 48817 DST #: 1

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

Printed: 2012.08.15 @ 16:09:12

Hartman Oil Co.
33-15s-29w Gove,KS
Dowell #1-33
DST # 1
LKC " K "
2012.08.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co.
10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

33-15s-29w Gove,KS

Dowell #1-33

Job Ticket: 48817

DST#: 1

Test Start: 2012.08.10 @ 17:40:00

GENERAL INFORMATION:

Formation: **LKC " K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:03:45
 Time Test Ended: 01:47:30
 Interval: **3960.00 ft (KB) To 3995.00 ft (KB) (TVD)**
 Total Depth: 3995.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Will MacLean
 Unit No: 40
 Reference Elevations: 2617.00 ft (KB)
 2607.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8353

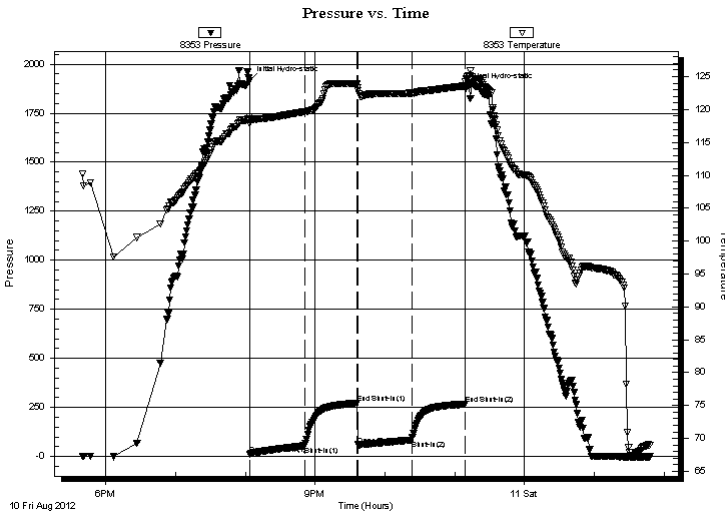
Outside

Press @ Run Depth: 83.42 psig @ 3963.00 ft (KB)
 Start Date: 2012.08.10 End Date: 2012.08.11
 Start Time: 17:40:00 End Time: 01:47:30

Capacity: 8000.00 psig
 Last Calib.: 2012.08.11
 Time On Btm: 2012.08.10 @ 20:03:30
 Time Off Btm: 2012.08.10 @ 23:09:00

TEST COMMENT: IF- Weak Surface Blow Built to 1 1/4"
 IS- No Blow
 FF- Very Weak Surface Blow
 FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.46	118.95	Initial Hydro-static
1	12.40	117.82	Open To Flow (1)
48	54.13	119.67	Shut-In(1)
93	270.45	123.88	End Shut-In(1)
94	58.82	122.88	Open To Flow (2)
140	83.42	122.48	Shut-In(2)
185	266.46	123.60	End Shut-In(2)
186	1877.97	124.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 31%m 69%w with Few Oil Spots	0.30
60.00	MCW 43%m 57%w with Few Oil Spots	0.30
5.00	WCM 14%w 86%m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co.
10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

33-15s-29w Gove,KS

Dowell #1-33

Job Ticket: 48817

DST#: 1

Test Start: 2012.08.10 @ 17:40:00

GENERAL INFORMATION:

Formation: **LKC " K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:03:45
 Time Test Ended: 01:47:30
 Interval: **3960.00 ft (KB) To 3995.00 ft (KB) (TVD)**
 Total Depth: 3995.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Will MacLean
 Unit No: 40
 Reference Elevations: 2617.00 ft (KB)
 2607.00 ft (CF)
 KB to GR/CF: 10.00 ft

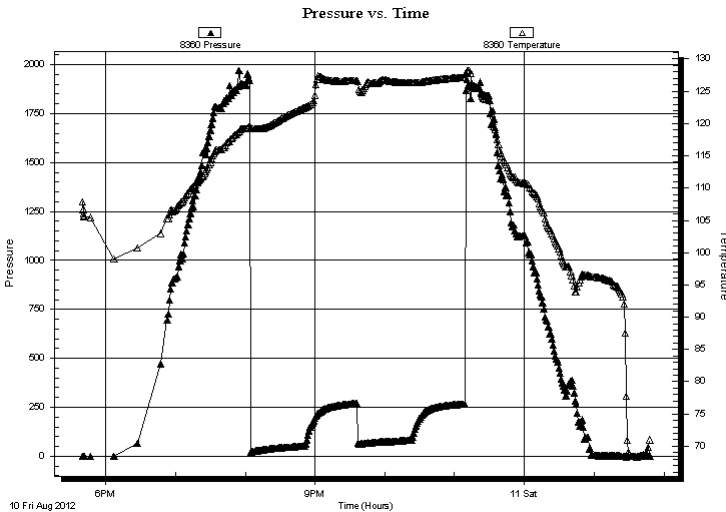
Serial #: 8360

Inside

Press @ Run Depth: psig @ 3963.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.10 End Date: 2012.08.11 Last Calib.: 2012.08.11
 Start Time: 17:40:05 End Time: 01:47:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to 1 1/4"
 IS- No Blow
 FF- Very Weak Surface Blow
 FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW 31%m 69%w with Few Oil Spots	0.30
60.00	MCW 43%m 57%w with Few Oil Spots	0.30
5.00	WCM 14%w 86%m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co.

33-15s-29w Gove,KS

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

Dowell #1-33

Job Ticket: 48817

DST#: 1

Test Start: 2012.08.10 @ 17:40:00

Tool Information

Drill Pipe:	Length: 3717.00 ft	Diameter: 3.80 inches	Volume: 52.14 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 22000.00 lb
			<u>Total Volume: 53.32 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3960.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3941.00	
Shut In Tool	5.00			3946.00	
Hydraulic tool	5.00			3951.00	
Packer	5.00			3956.00	20.00 Bottom Of Top Packer
Packer	4.00			3960.00	
Stubb	1.00			3961.00	
Perforations	2.00			3963.00	
Recorder	0.00	8360	Inside	3963.00	
Recorder	0.00	8353	Outside	3963.00	
Perforations	29.00			3992.00	
Bullnose	3.00			3995.00	35.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

33-15s-29w Gove,KS

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

Dowell #1-33

Job Ticket: 48817

DST#: 1

Test Start: 2012.08.10 @ 17:40:00

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:

29000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCW 31%m 69%w with Few Oil Spots	0.295
60.00	MCW 43%m 57%w with Few Oil Spots	0.295
5.00	WCM 14%w 86%m	0.025

Total Length: 125.00 ft Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

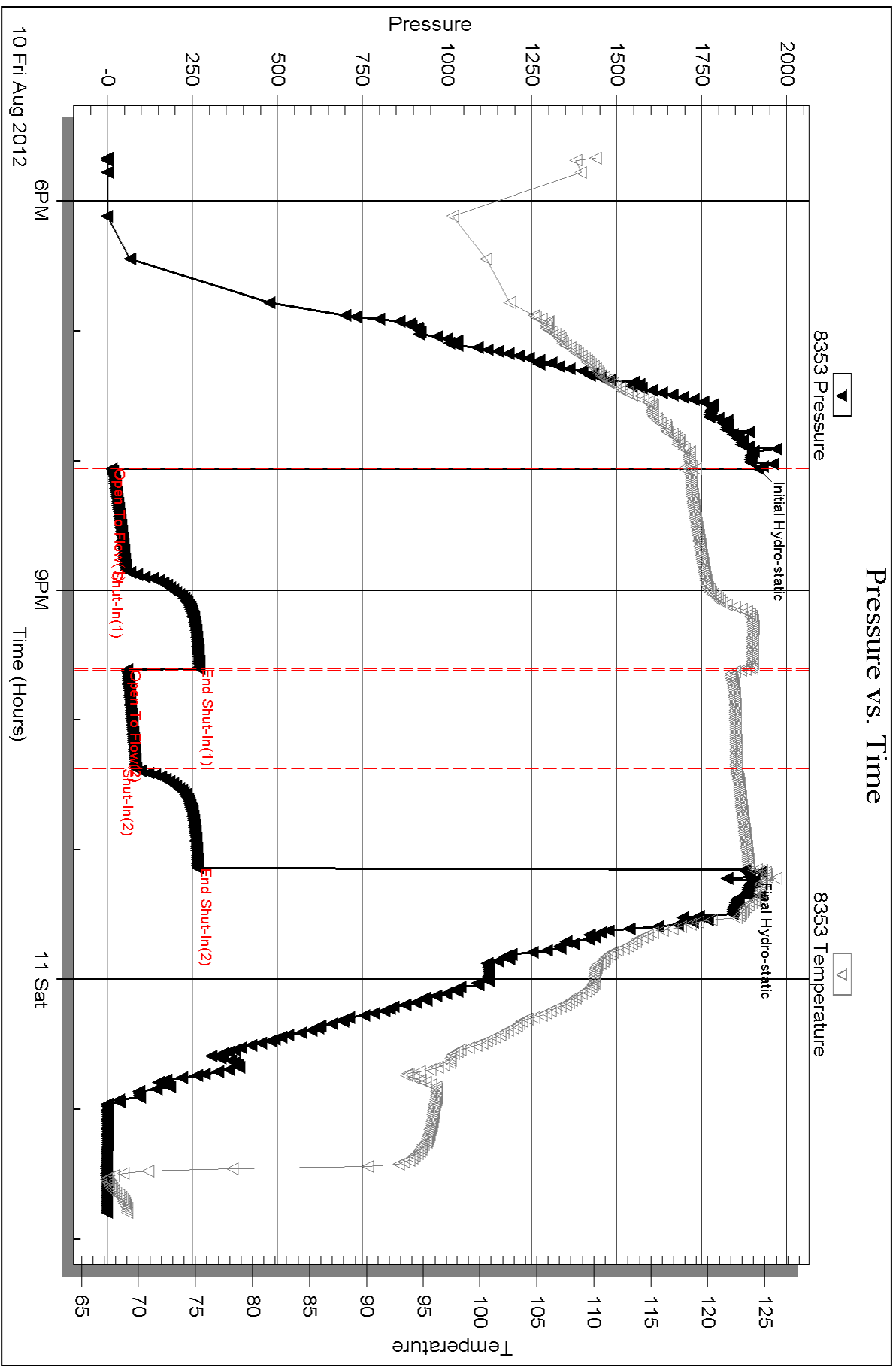
Recovery Comments: RW is .223 @ 68f = 29000

Serial #: 8353

Outside Hartman Oil Co.

Dow ell #1-33

DST Test Number: 1



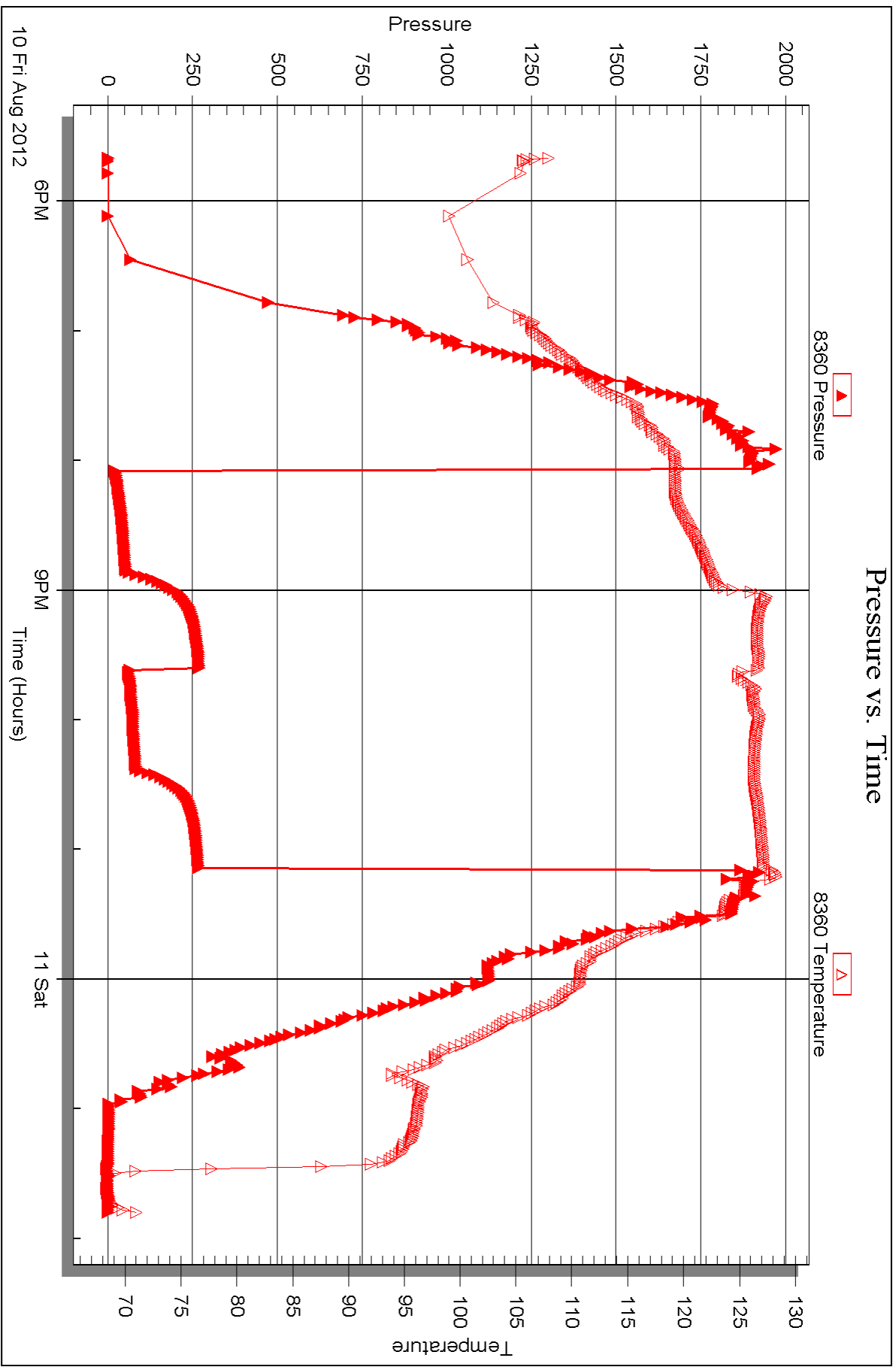
Serial #: 8360

Inside

Hartman Oil Co.

Dow ell #1-33

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206

ATTN: Kitt Noah

Dowell #1-33

33-15s-29w Gove,KS

Start Date: 2012.08.11 @ 10:22:00

End Date: 2012.08.11 @ 18:07:54

Job Ticket #: 48818 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.15 @ 16:08:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co.
 10500 E Berkeley Sq
 PKWY STE 100
 Wichita KS 67206
 ATTN: Kitt Noah

33-15s-29w Gove, KS

Dowell #1-33

Job Ticket: 48818

DST#: 2

Test Start: 2012.08.11 @ 10:22:00

GENERAL INFORMATION:

Formation: **LKC "Middle Creek"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:24:10

Time Test Ended: 18:07:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 3993.00 ft (KB) To 4012.00 ft (KB) (TVD)

Reference Elevations: 2617.00 ft (KB)

Total Depth: 4012.00 ft (KB) (TVD)

2607.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 82.04 psig @ 3994.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.11

End Date:

2012.08.11

Last Calib.:

2012.08.11

Start Time: 10:22:00

End Time:

18:07:54

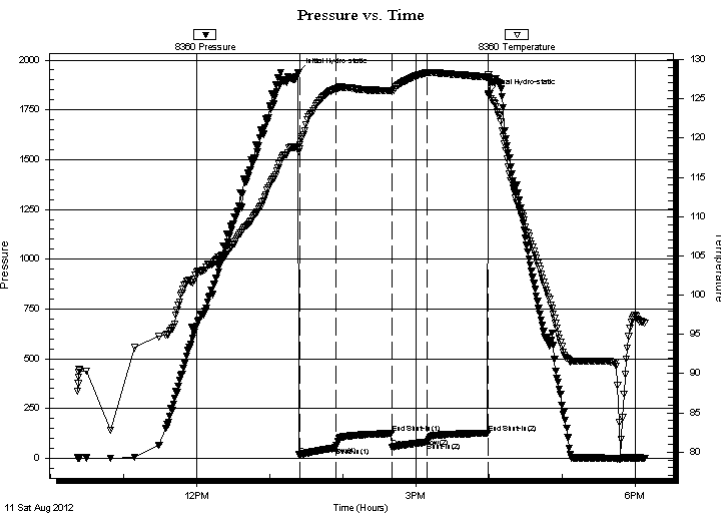
Time On Btm:

2012.08.11 @ 13:23:10

Time Off Btm:

2012.08.11 @ 15:59:24

TEST COMMENT: IF- Surface Blow Built to BOB in 5 1/2 min
 IS- No Blow
 FF- Weak Surface Blow Built to 5"
 FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.48	118.82	Initial Hydro-static
1	14.99	118.61	Open To Flow (1)
31	53.47	126.33	Shut-In(1)
77	124.72	126.04	End Shut-In(1)
78	54.97	125.98	Open To Flow (2)
106	82.04	128.32	Shut-In(2)
156	125.83	127.77	End Shut-In(2)
157	1831.99	128.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCW 3%g 18%m 79%w with Skim oil	0.30
60.00	OGWCM 2%oil 6%g 20%w 72%m	0.30
10.00	OGCM 1%oil 2%g 97%m	0.05
0.00	305' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co.
 10500 E Berkeley Sq
 PKWY STE 100
 Wichita KS 67206
 ATTN: Kitt Noah

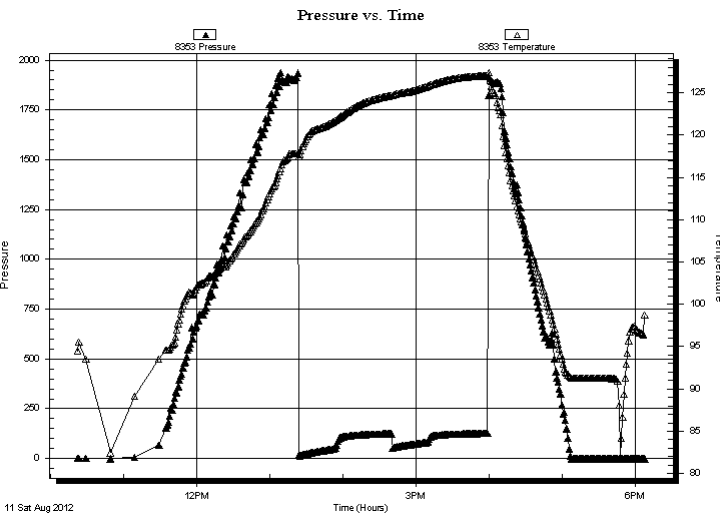
33-15s-29w Gove,KS
Dowell #1-33
 Job Ticket: 48818 **DST#: 2**
 Test Start: 2012.08.11 @ 10:22:00

GENERAL INFORMATION:

Formation: **LKC "Middle Creek"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:24:10
 Time Test Ended: 18:07:54
 Interval: **3993.00 ft (KB) To 4012.00 ft (KB) (TVD)**
 Total Depth: 4012.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 40
 Reference Elevations: 2617.00 ft (KB)
 2607.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8353 Outside
 Press @ Run Depth: psig @ 3994.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.11 End Date: 2012.08.11 Last Calib.: 2012.08.11
 Start Time: 10:22:15 End Time: 18:08:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Surface Blow Built to BOB in 5 1/2 min
 IS- No Blow
 FF- Weak Surface Blow Built to 5"
 FS- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCW 3%g 18%m 79%w with Skim	0.30
60.00	OGWCM 2%oil 6%g 20%w 72%m	0.30
10.00	OGCM 1%oil 2%g 97%m	0.05
0.00	305' of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co.

33-15s-29w Gove,KS

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

Dowell #1-33

Job Ticket: 48818

DST#: 2

Test Start: 2012.08.11 @ 10:22:00

Tool Information

Drill Pipe:	Length: 3746.00 ft	Diameter: 3.80 inches	Volume: 52.55 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 53.73 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3993.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3974.00	
Shut In Tool	5.00			3979.00	
Hydraulic tool	5.00			3984.00	
Packer	5.00			3989.00	20.00 Bottom Of Top Packer
Packer	4.00			3993.00	
Stubb	1.00			3994.00	
Recorder	0.00	8360	Inside	3994.00	
Recorder	0.00	8353	Outside	3994.00	
Perforations	15.00			4009.00	
Bullnose	3.00			4012.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

33-15s-29w Gove,KS

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

Dowell #1-33

Job Ticket: 48818

DST#: 2

Test Start: 2012.08.11 @ 10:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.78 in³

Resistivity: ohm.m

Salinity: 2300.00 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: 31000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCW 3%g 18%m 79%w with Skim of Oil	0.295
60.00	OGWCM 2%oil 6%g 20%w 72%m	0.295
10.00	OGCM 1%oil 2%g 97%m	0.049
0.00	305' of GIP	0.000

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

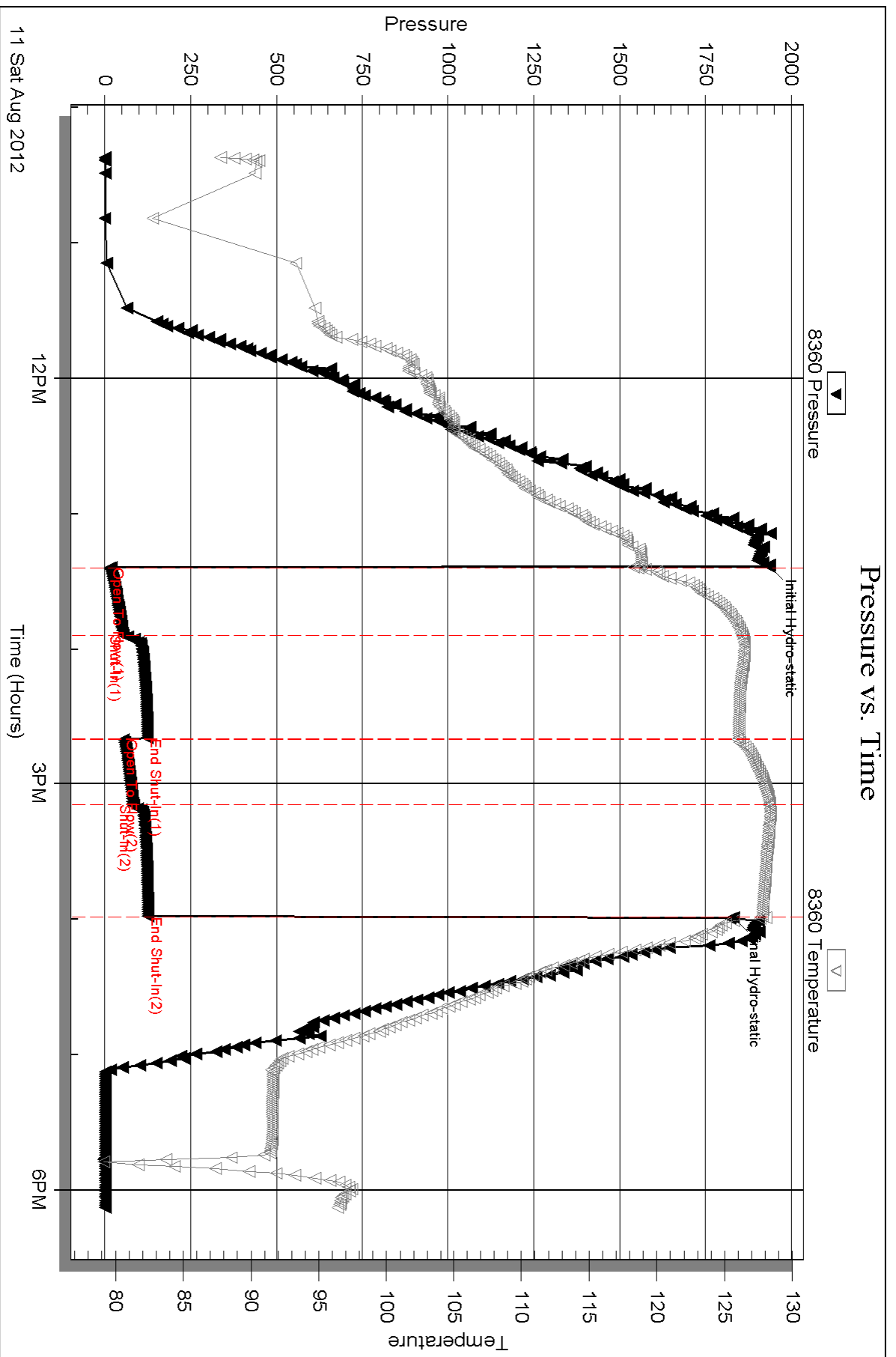
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .153 @ 97f = 31000

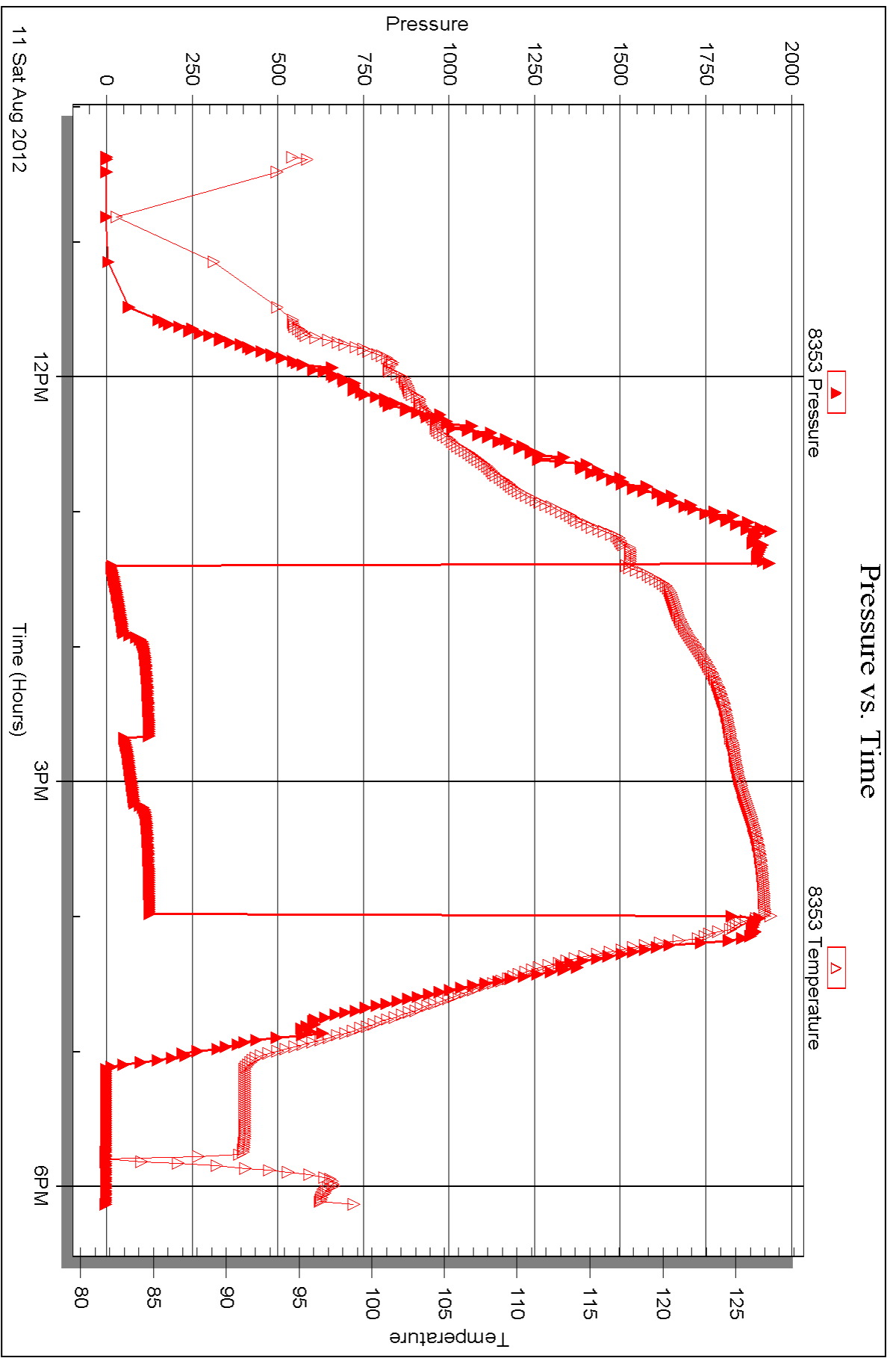


Serial #: 8353

Outside Hartman Oil Co.

Dow ell #1-33

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 48818

Printed: 2012.08.15 @ 16:08:13



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206

ATTN: Kitt Noah

Dowell #1-33

33-15s-29w Gove,KS

Start Date: 2012.08.12 @ 22:58:00

End Date: 2012.08.13 @ 05:59:09

Job Ticket #: 48819 DST #: 3

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

Printed: 2012.08.15 @ 16:07:23

Hartman Oil Co.
33-15s-29w Gove,KS
Dowell #1-33
DST # 3
Johnson
2012.08.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co.
10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

33-15s-29w Gove,KS

Dowell #1-33

Job Ticket: 48819

DST#: 3

Test Start: 2012.08.12 @ 22:58:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:14:10
 Time Test Ended: 05:59:09
 Interval: **4236.00 ft (KB) To 4305.00 ft (KB) (TVD)**
 Total Depth: 4305.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 40
 Reference Elevations: 2617.00 ft (KB)
 2607.00 ft (CF)
 KB to GR/CF: 10.00 ft

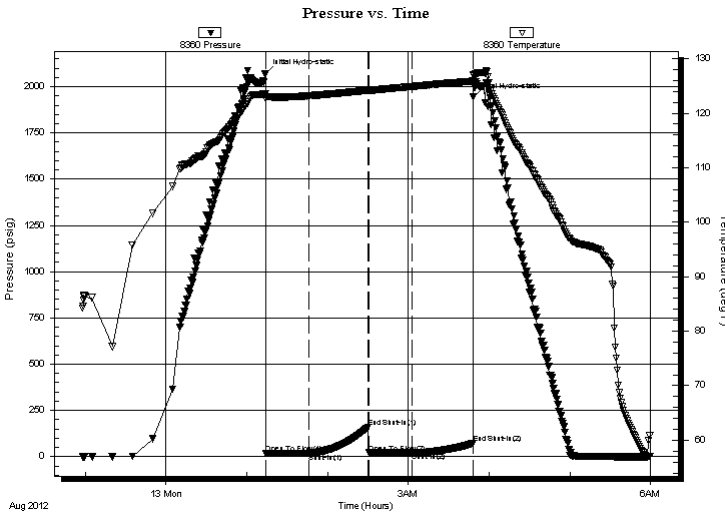
Serial #: 8360

Inside

Press @ Run Depth: 21.28 psig @ 4240.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.12 End Date: 2012.08.13 Last Calib.: 2012.08.13
 Start Time: 22:58:00 End Time: 05:59:09 Time On Btm: 2012.08.13 @ 01:13:55
 Time Off Btm: 2012.08.13 @ 03:47:54

TEST COMMENT: IF- Weak Surface Blow
 IS- No Blow
 FF- Weak Surface Blow Died in 4 min
 FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.26	123.55	Initial Hydro-static
1	18.54	122.66	Open To Flow (1)
33	19.59	123.20	Shut-In(1)
77	160.24	124.21	End Shut-In(1)
77	20.39	124.15	Open To Flow (2)
109	21.28	124.89	Shut-In(2)
154	71.37	125.88	End Shut-In(2)
154	1943.01	126.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 3%oil 97% m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co.
10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

33-15s-29w Gove,KS

Dowell #1-33

Job Ticket: 48819

DST#: 3

Test Start: 2012.08.12 @ 22:58:00

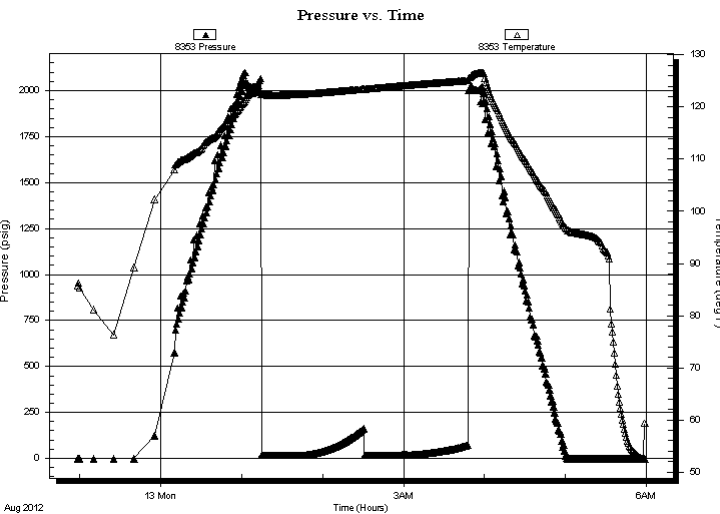
GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:14:10
 Time Test Ended: 05:59:09
 Interval: **4236.00 ft (KB) To 4305.00 ft (KB) (TVD)**
 Total Depth: 4305.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 40
 Reference Elevations: 2617.00 ft (KB)
 2607.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8353 Outside

Press @ Run Depth: psig @ 4240.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.12 End Date: 2012.08.13 Last Calib.: 2012.08.13
 Start Time: 22:58:15 End Time: 05:59:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow
 IS- No Blow
 FF- Weak Surface Blow Died in 4 min
 FS- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 3%oil 97% <i>m</i>	0.05

* 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.

33-15s-29w Gove,KS

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

Dowell #1-33

Job Ticket: 48819

DST#: 3

Test Start: 2012.08.12 @ 22:58:00

Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.80 inches	Volume: 56.07 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	14000.00 lb
			<u>Total Volume: 57.25 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4236.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4217.00	
Shut In Tool	5.00			4222.00	
Hydraulic tool	5.00			4227.00	
Packer	5.00			4232.00	20.00 Bottom Of Top Packer
Packer	4.00			4236.00	
Stubb	1.00			4237.00	
Perforations	3.00			4240.00	
Recorder	0.00	8360	Inside	4240.00	
Recorder	0.00	8353	Outside	4240.00	
Perforations	25.00			4265.00	
Change Over Sub	1.00			4266.00	
Drill Pipe	31.00			4297.00	
Change Over Sub	1.00			4298.00	
Perforations	4.00			4302.00	
Bullnose	3.00			4305.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

33-15s-29w Gove,KS

10500 E Berkeley Sq
PKWY STE 100
Wichita KS 67206
ATTN: Kitt Noah

Dowell #1-33

Job Ticket: 48819

DST#: 3

Test Start: 2012.08.12 @ 22:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 2400.00 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
10.00	OCM 3%oil 97%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

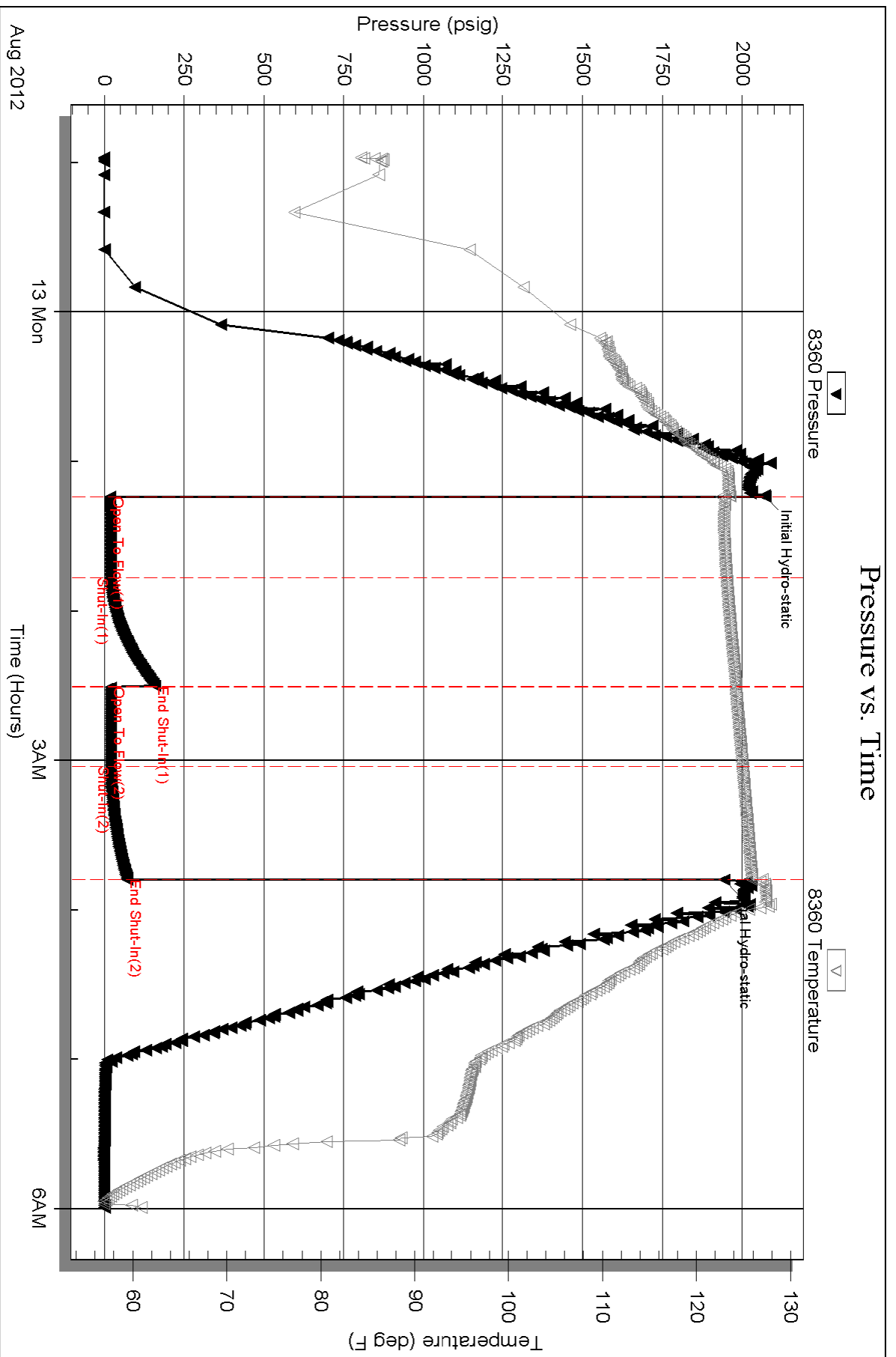
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

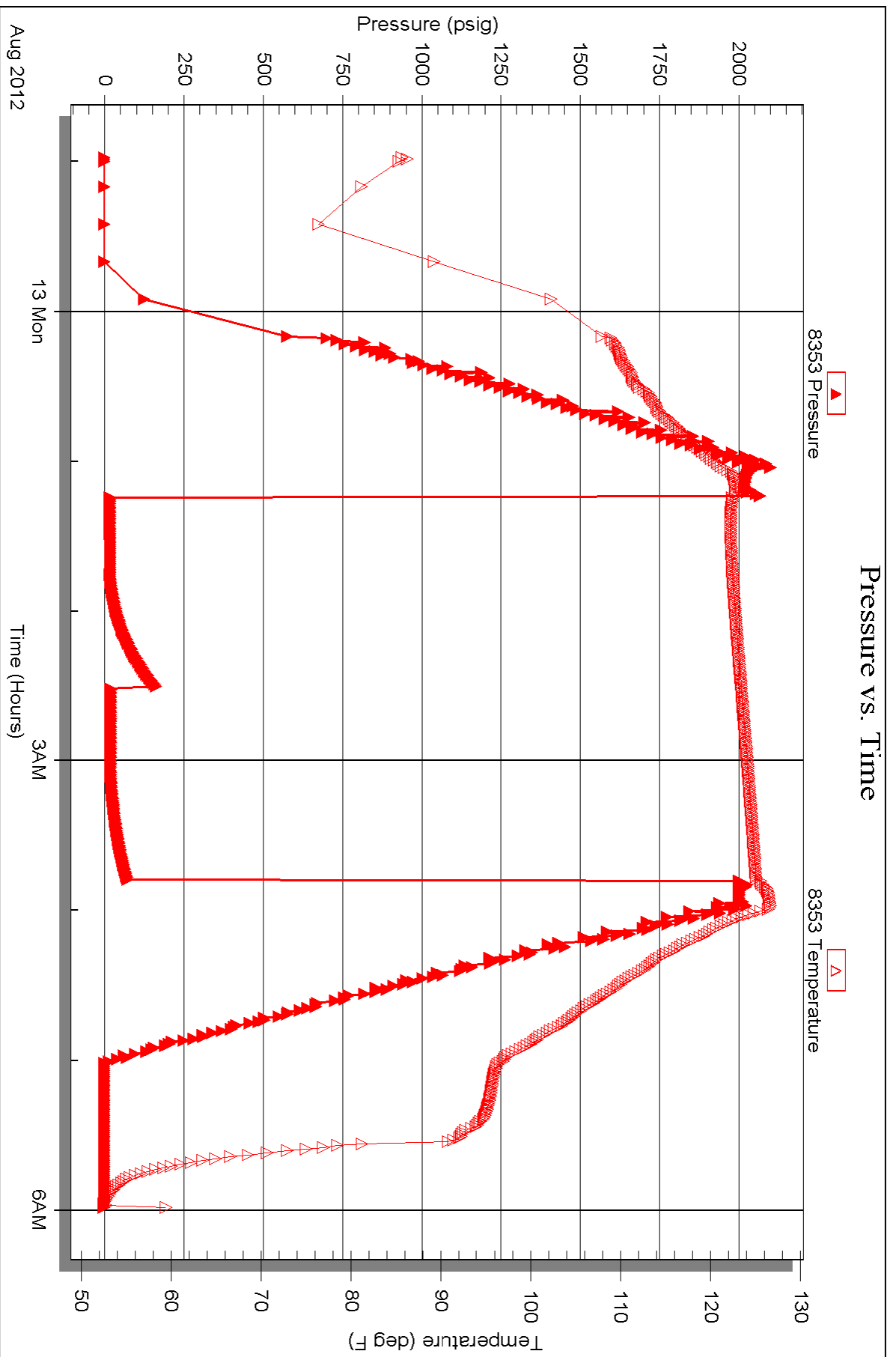


Serial #: 8353

Outside Hartman Oil Co.

Dow ell #1-33

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48817

Well Name & No. Dowell #1-33 Test No. DST #1 Date 8-10-12
 Company Hartman Oil Co. Elevation 2617 KB 2607 GL
 Address 10500 E Berkeley Sq PKWY STE 100 Wichita KS 67206
 Co. Rep / Geo. Kitt Noah Rig H-2 Rig #2
 Location: Sec. 33 Twp. 15S Rge. 29W Co. Gove State KS

Interval Tested 3960-3995 Zone Tested LKC "K"
 Anchor Length 35 Drill Pipe Run 3717 Mud Wt. 9.3
 Top Packer Depth 3956 Drill Collars Run 239 Vis 46
 Bottom Packer Depth 3960 Wt. Pipe Run 0 WL 8.0
 Total Depth 3995 Chlorides 1500 ppm System LCM 216
 Blow Description IF - Weak Surface Blow Built to 1 1/4"
ISI - No Blow
FF - Very Weak Surface Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>WCM</u>			<u>14%</u>	<u>86%</u>
<u>60</u>	<u>MCW with few oil spots</u>			<u>57%</u>	<u>43%</u>
<u>60</u>	<u>MCW with few oil spots</u>			<u>69%</u>	<u>31%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125 BHT 123 Gravity _____ API RW 223 @ 68 ° F Chlorides 29000 ppm

(A) Initial Hydrostatic 1915 Test 1150 T-On Location 14:40
 (B) First Initial Flow 12 Jars _____ T-Started 17:40
 (C) First Final Flow 54 Safety Joint _____ T-Open 20:03
 (D) Initial Shut-In 270 Circ Sub NIC T-Pulled 23:09
 (E) Second Initial Flow 58 Hourly Standby _____ T-Out 1:47
 (F) Second Final Flow 83 Mileage 80 R/T 124 Comments _____
 (G) Final Shut-In 266 Sampler _____
 (H) Final Hydrostatic 1877 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1424
 Final Flow 45 Accessibility 150 MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1424

Approved By Kitt Noah Our Representative Kitt Noah

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48818

Well Name & No. Dowell #1-33 Test No. DST #2 Date 8-11-12
 Company Hartman Oil Co. Elevation 2617 KB 2607 GL
 Address 10500 E Berkeley Sq PRWY STE 100 Wichita KS 67206
 Co. Rep / Geo. Kitt Noah Rig H-2 Rig #2
 Location: Sec. 33 Twp. 15s Rge. 29w Co. Grove State KS

Interval Tested 3993 - 4012 Zone Tested LKC "Middle Creek"
 Anchor Length 19 Drill Pipe Run 3746 Mud Wt. 9.2
 Top Packer Depth 3989 Drill Collars Run 239 Vis 51
 Bottom Packer Depth 3993 Wt. Pipe Run 0 WL 6.8
 Total Depth 4012 Chlorides 2300 ppm System LCM 21b
 Blow Description IF- Surface Blow Built to BOB in 5 1/2 min
ISI- No Blow
EF- Weak Surface Blow Built to 5"
FST- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OG-CM</u>	<u>2</u>	<u>1</u>	<u>97</u>	<u>97</u>
<u>60</u>	<u>OG-WCM</u>	<u>6</u>	<u>2</u>	<u>20</u>	<u>72</u>
<u>60</u>	<u>G-MCW with skin of 0.13</u>	<u>13</u>	<u>79</u>	<u>18</u>	<u>18</u>
<u>305'</u>	<u>of G-IP</u>				

Rec Total 130 BHT 126 Gravity API RW-153 @ 97 °F Chlorides 31000 ppm

(A) Initial Hydrostatic 1935 Test 1250 T-On Location 9:10
 (B) First Initial Flow 14 Jars T-Started 10:22
 (C) First Final Flow 53 Safety Joint T-Open 13:24
 (D) Initial Shut-In 124 Circ Sub NIC T-Pulled 15:59
 (E) Second Initial Flow 54 Hourly Standby T-Out 18:07
 (F) Second Final Flow 82 Mileage 80 R/T 124 Comments _____
 (G) Final Shut-In 125 Sampler _____
 (H) Final Hydrostatic 1831 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1524
 MP/DST Disc't _____

Approved By [Signature] 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 of opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48819

Well Name & No. Dowell #1-33 Test No. DST #3 Date 8-12-12
 Company Hartman Oil Co. Elevation 2617 KB 2607 GL
 Address 10500 E Berkeley Sq PRWK STE 100 Wichita KS 67206
 Co. Rep / Geo. Kitt Noah Rig H-2 Rg #2
 Location: Sec. 33 Twp. 15S Rge. 29W Co. Gove State KS

Interval Tested 4236-4305 Zone Tested Johnson
 Anchor Length 69 Drill Pipe Run 3997 Mud Wt. 9.2
 Top Packer Depth 4232 Drill Collars Run 239 Vis 51
 Bottom Packer Depth 4236 Wt. Pipe Run 0 WL 8.0
 Total Depth 4305 Chlorides 2400 ppm System LCM 116

Blow Description IF - Weak Surface Blow
ISI - No Blow
FF - Weak Surface Blow Dried in 4 min
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>CCM</u>		<u>3%</u>	<u>97%</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 10 BHT 123 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2072 Test 1250 T-On Location 21:24
 (B) First Initial Flow 2072 18 Jars _____ T-Started 22:58
 (C) First Final Flow 18 19 Safety Joint _____ T-Open 1:14
 (D) Initial Shut-In 19 160 Circ Sub NIC T-Pulled 3:47
 (E) Second Initial Flow 160 20 Hourly Standby _____ T-Out 5:59
 (F) Second Final Flow 20 21 Mileage _____ 124 Comments _____
 (G) Final Shut-In 2 71 Sampler _____
 (H) Final Hydrostatic 1943 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 2 1/2 Hr
 Accessibility 150
 Sub Total 1524

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
 Sub Total 83.33
 Total 1607.33
 MP/DST Disc't _____

Approved By Kitt Noah Our Representative Kitt Noah
 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 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.