

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1358100  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
November 2016

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

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

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	WILKINSON TRUST UNIT 1-21
Doc ID	1358100

Tops

Name	Top	Datum
Anhydrite	2406	+706
B/Anhydrite	2424	+688
Heebner	3986	-874
Toronto	4000	-888
Lansing	4031	-919
Stark	4320	-1208
B/KC	4416	-1304
Marmaton	4471	-1359
Pawnee	4569	-1457
Ft Scott	4610	-1498
Johnson	4696	-1584
Mississippian	4696	NDE
LTD	4801	4801
RTD	4800	4800





0000  
8164

TICKET NUMBER 51792  
LOCATION Oakley Ks  
FOREMAN Jerry Y  
Miles S

LD TICKET & TREATMENT REPORT

Invoice #810407

Ks

620-431-9210 or 800-467-8676

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-1-17	3613	Wilkinson Trust Unit 1-20	21	17s	34w	Scott
CUSTOMER Hartman Oil			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 3545 W. Jones Avenue			753 Travis W			
CITY Garden City			566 Seth O			
STATE Ks			assist 634 Steve O			
ZIP CODE 67846			703			

JOB TYPE Long string HOLE SIZE 7 7/8 HOLE DEPTH 4800 CASING SIZE & WEIGHT 5 1/2 15.5#  
 CASING DEPTH 4685 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER PC @ 2400'  
 SLURRY WEIGHT 142 SLURRY VOL 1.42 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 45'  
 DISPLACEMENT 110 bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting - rig upon Southwind. 3 run float eq. centralizers on 2, 4, 6, 8, 10, 12, 14, 49, 51 baskets on bottom of 2, 10' & on 50' Port + Collar on Top 50' run casing to bottom pump ball thru & circ vis & 38 pump 500 gal mud flush with 5 bbl H<sub>2</sub>O spacer mix 100 sks Thixobland III shut down release plug clean pump & lines and displace with 110 bbl fresh water final lift 600' plug back @ 1200' released back & float did not hold press back to 500' & shut in for 4 hrs

Thank you  
Jerry Y

20 sks muscle hole 30 sks Rat hole

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0453	1	PUMP CHARGE	2800.00	2800.00
CE0072	40	MILEAGE	7.15	286.00
CE0711	7.05	ten mileage delivery (min)	660.00	660.00
CC5862	100 sks	thixobland III	26.00	2600.00
CC6077	500 #	Kal Seal	.50	250.00
CC5829	50 sks	thixobland II (60/40 48)	16.00	800.00
CC6075	13 #	Flt seal	3.00	39.00
CC6125	7260 500 gal	mud flush	.65	325.00
CP 8485	1	5 1/2 AFU float shoe	585.00	585.00
CP 8254	1	5 1/2 latch down assy	400.00	400.00
CP 8554	9	5 1/2 centralizers	81.00	729.00
CP 8629	2	5 1/2 baskets	385.00	770.00
CP 8776	1	5 1/2 Port Collar	2850.00	2850.00
			subtotal	13,094.00
			-35%	4,582.90
			subtotal	8,511.10
			SALES TAX	516.48
			ESTIMATED TOTAL	9,027.58

Ravin 3737

AUTHORIZATION VA A TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



0110  
8086

TICKET NUMBER 51815  
LOCATION Oakley KS  
FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 810303 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5-24-17	3613	Wilkinson Trust Unit 1-21	21	17S	34W	Scott	
CUSTOMER <u>Hartman Oil</u>		Scott City, KS 11 W Rd 190 West to Cherokee Rd 1 W IN East into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>3545 W. Jones Avenue</u>				<u>731</u>	<u>Cory D</u>		
CITY <u>Garden City</u>		STATE <u>KS</u>	ZIP CODE <u>67846</u>	<u>466</u>	<u>Strom O</u>		
				<u>703</u>	<u>Sehn O</u>		

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 348' CASING SIZE & WEIGHT 8 5/8" @ 32#  
CASING DEPTH 347 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 148 SLURRY VOL. 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20  
DISPLACEMENT 20 h/s DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on Southwind drilling rig #3 Circulate casing mix 240 Sx Surface blend II Class A Cement with 38 Calcium 28 gal displac 2.0 bks Water Shut in Cement did Circulate Celler only

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	35	MILEAGE	7.15	250.25
CE0710	11.28	Ten Mileage deliver	1.75	690.90
CC5871	240 su	Surface blend II	23.00	5520.00
			Subtotal	7611.15
			less 30% discount	2283.34
			Subtotal	5327.81
			SALES TAX	328.44
			ESTIMATED TOTAL	5656.25

RAVIN 3737 AUTHORIZATION [Signature] TITLE [Signature] DATE 5-24-17

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



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

Pat Apple, Chairman  
Shari Feist Albrecht, Commissioner  
Jay Scott Emler, Commissioner

Sam Brownback, Governor

September 25, 2017

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

Re: ACO-1  
API 15-171-21204-00-00  
WILKINSON TRUST UNIT 1-21  
SW/4 Sec.21-17S-34W  
Scott County, Kansas

Dear Kent Strube:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 5/23/2017 and the ACO-1 was received on September 22, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



## DRILL STEM TEST REPORT

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

10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206

ATTN: Chris Peters

**21-17s-34w Scott,,KS**

**Wilkinson Trust Unit #1-21**

Start Date: 2017.05.30 @ 18:25:00

End Date: 2017.05.31 @ 08:18:30

Job Ticket #: 61364                      DST #: 1

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

Printed: 2017.06.02 @ 08:33:32

Hartman Oil Co, Inc

Wilkinson Trust Unit #1-21

21-17s-34w Scott,,KS

DST # 1

Marmaton

2017.05.30





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Hartman Oil Co, Inc  
10500 E Berkeley Sq Pkw y  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61364 **DST#: 1**  
Test Start: 2017.05.30 @ 18:25:00

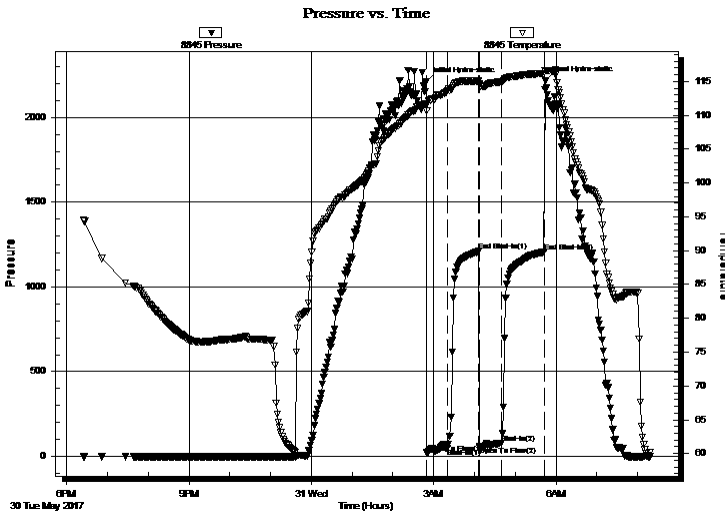
## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:49:45  
Time Test Ended: 08:18:30  
Interval: **4455.00 ft (KB) To 4540.00 ft (KB) (TVD)**  
Total Depth: 4540.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 3112.00 ft (KB)  
3102.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**  
Press@RunDepth: 77.18 psig @ 4456.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2017.05.30 End Date: 2017.05.31 Last Calib.: 1899.12.30  
Start Time: 18:25:05 End Time: 08:18:30 Time On Btm: 2017.05.31 @ 02:49:30  
Time Off Btm: 2017.05.31 @ 05:44:15

TEST COMMENT: IF: BOB @ 27 min.  
IS: No return.  
FF: BOB @ 25 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.00	111.64	Initial Hydro-static
1	20.04	110.72	Open To Flow (1)
31	48.23	113.62	Shut-In(1)
77	1209.82	115.07	End Shut-In(1)
78	56.78	114.61	Open To Flow (2)
110	77.18	114.94	Shut-In(2)
173	1206.01	116.16	End Shut-In(2)
175	2215.61	116.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
165.00	gmco 25g 15m 60o	2.31
0.00	200' GIP	0.00

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Hartman Oil Co, Inc  
 10500 E Berkeley Sq Pkw y  
 Ste 600  
 Wichita, KS 67206  
 ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
 Job Ticket: 61364 **DST#: 1**  
 Test Start: 2017.05.30 @ 18:25:00

### GENERAL INFORMATION:

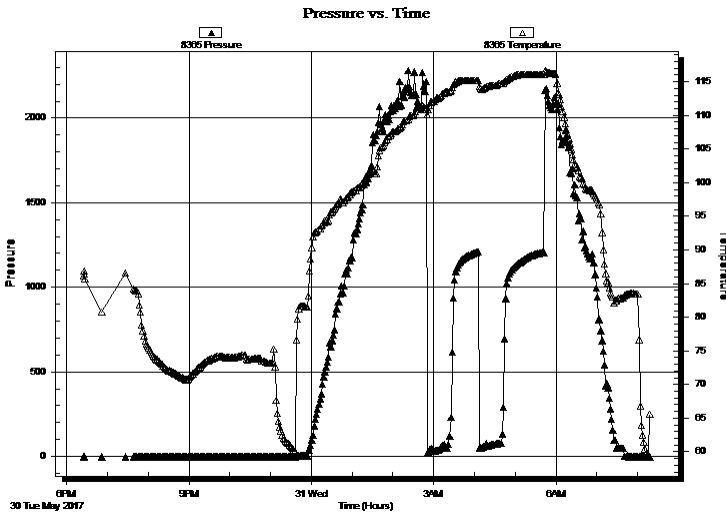
Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:49:45  
 Time Test Ended: 08:18:30  
 Interval: **4455.00 ft (KB) To 4540.00 ft (KB) (TVD)**  
 Total Depth: 4540.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3112.00 ft (KB)  
 3102.00 ft (CF)  
 KB to GR/CF: 10.00 ft

### Serial #: 8365 Inside

Press@RunDepth: psig @ 4456.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.05.30 End Date: 2017.05.31 Last Calib.: 2017.05.30  
 Start Time: 18:25:05 End Time: 08:18:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: BOB @ 27 min.  
 IS: No return.  
 FF: BOB @ 25 min.  
 FS: No return.

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
165.00	gmco 25g 15m 60o	2.31
0.00	200' GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Hartman Oil Co, Inc  
10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61364      **DST#: 1**  
Test Start: 2017.05.30 @ 18:25:00

**Tool Information**

Drill Pipe:	Length: 4468.00 ft	Diameter: 3.80 inches	Volume: 62.67 bbl	Tool Weight: 2500.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 62.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4455.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4436.00	
Shut In Tool	5.00			4441.00	
Hydraulic tool	5.00			4446.00	
Packer	5.00			4451.00	20.00      Bottom Of Top Packer
Packer	4.00			4455.00	
Stubb	1.00			4456.00	
Recorder	0.00	8365	Inside	4456.00	
Recorder	0.00	8845	Outside	4456.00	
Perforations	16.00			4472.00	
Change Over Sub	1.00			4473.00	
Drill Pipe	63.00			4536.00	
Change Over Sub	1.00			4537.00	
Bullnose	3.00			4540.00	85.00      Bottom Packers & Anchor

**Total Tool Length: 105.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Hartman Oil Co, Inc  
10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61364      **DST#: 1**  
Test Start: 2017.05.30 @ 18:25:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

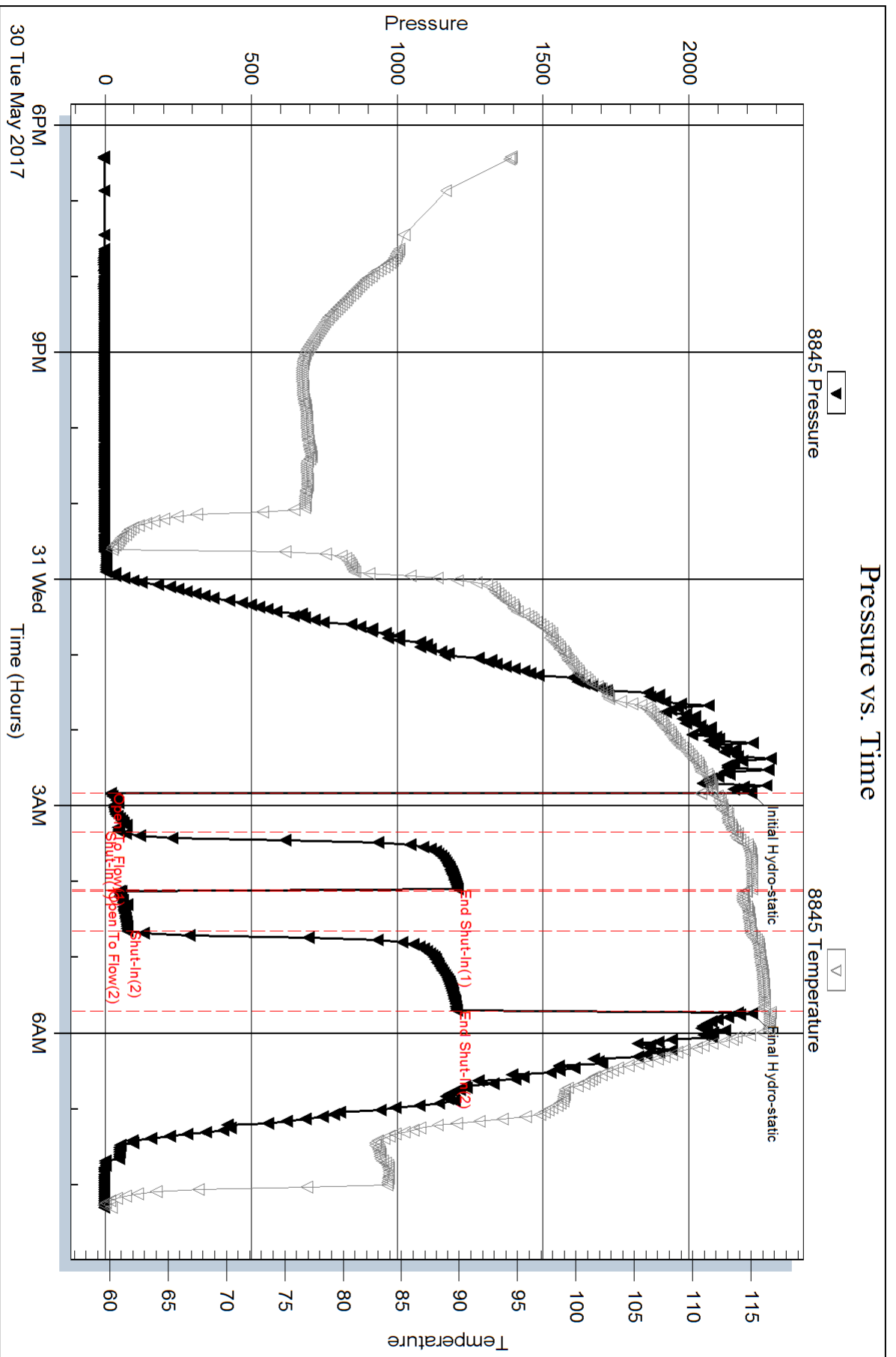
Length ft	Description	Volume bbl
165.00	gmco 25g 15m 60o	2.315
0.00	200' GIP	0.000

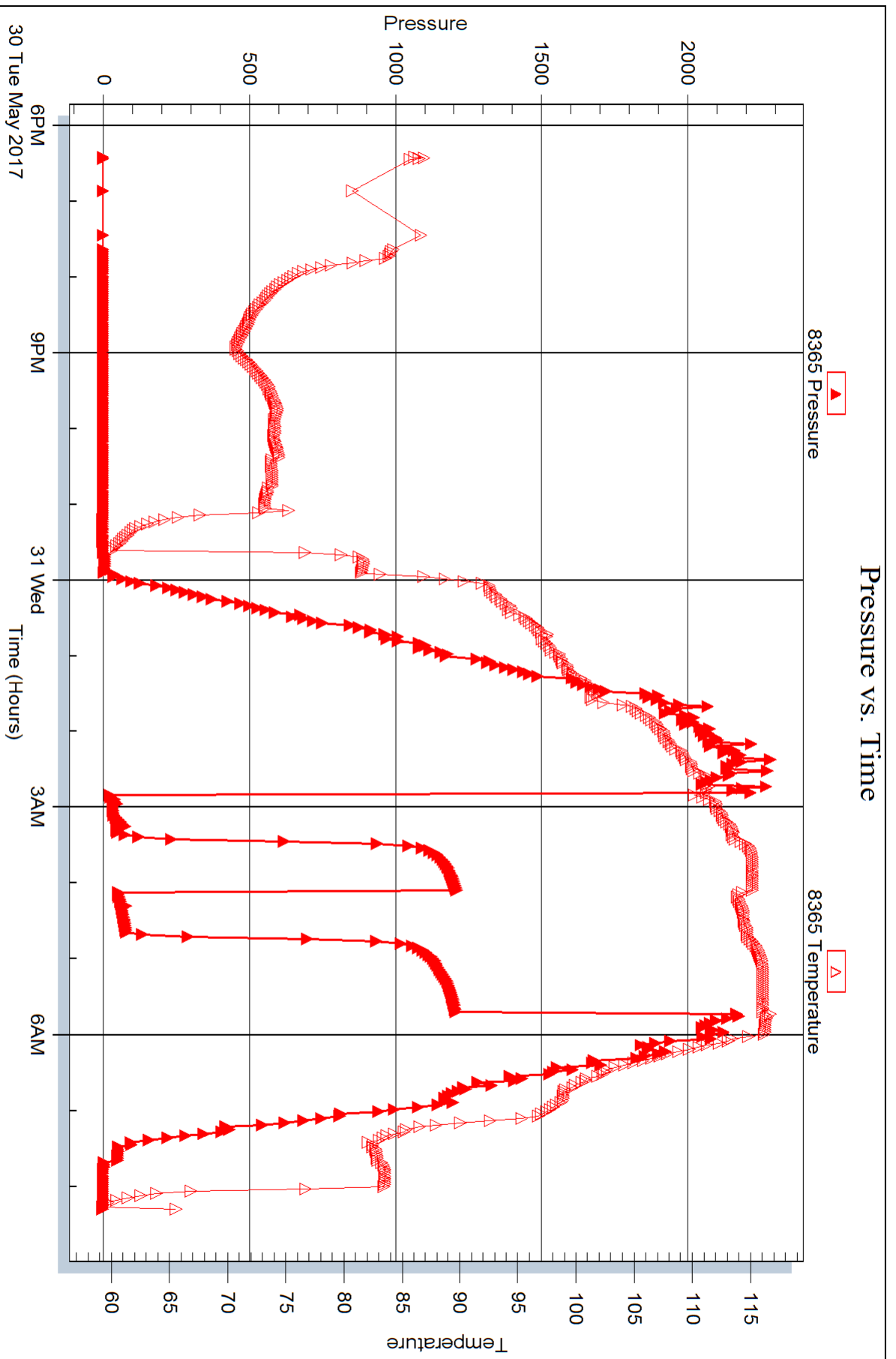
Total Length: 165.00 ft      Total Volume: 2.315 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206

ATTN: Chris Peters

**21-17s-34w Scott,,KS**

**Wilkinson Trust Unit #1-21**

Start Date: 2017.05.30 @ 19:08:00

End Date: 2017.05.31 @ 00:36:30

Job Ticket #: 61365                      DST #: 2

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

Printed: 2017.06.02 @ 08:32:41

Hartman Oil Co, Inc

Wilkinson Trust Unit #1-21

21-17s-34w Scott,,KS

DST # 2

Pawnee

2017.05.30



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Hartman Oil Co, Inc  
10500 E Berkeley Sq Pkw y  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

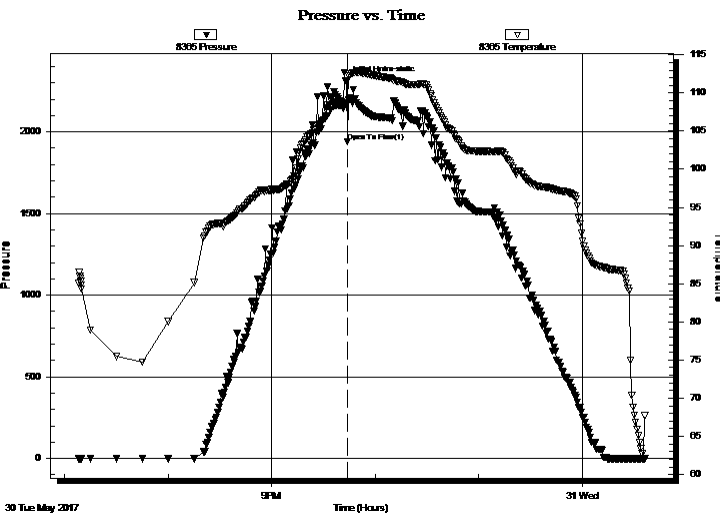
**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61365 **DST#: 2**  
Test Start: 2017.05.30 @ 19:08:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:43:45  
Time Test Ended: 00:36:30  
Interval: **4536.00 ft (KB) To 4580.00 ft (KB) (TVD)**  
Total Depth: 4580.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 3112.00 ft (KB)  
3102.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8365** **Inside**  
Press@RunDepth: psig @ 4537.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2017.05.30 End Date: 2017.05.31 Last Calib.: 2017.05.31  
Start Time: 19:08:05 End Time: 00:36:29 Time On Btm: 2017.05.30 @ 21:43:30  
Time Off Btm:

TEST COMMENT: Packers did not seat  
Mis-run



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.42	108.78	Initial Hydro-static
1	1939.84	108.62	Open To Flow (1)

## Recovery

Length (ft)	Description	Volume (bbl)
165.00	Mud 100m - Misrun	2.31

\* 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  
10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61365 **DST#: 2**  
Test Start: 2017.05.30 @ 19:08:00

**Tool Information**

Drill Pipe:	Length: 4530.00 ft	Diameter: 3.80 inches	Volume: 63.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 63.54 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4536.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4517.00	
Shut In Tool	5.00			4522.00	
Hydraulic tool	5.00			4527.00	
Packer	5.00			4532.00	20.00 Bottom Of Top Packer
Packer	4.00			4536.00	
Stubb	1.00			4537.00	
Recorder	0.00	8365	Inside	4537.00	
Recorder	0.00	8845	Outside	4537.00	
Perforations	7.00			4544.00	
Change Over Sub	1.00			4545.00	
Drill Pipe	31.00			4576.00	
Change Over Sub	1.00			4577.00	
Bullnose	3.00			4580.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Hartman Oil Co, Inc  
10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61365      **DST#: 2**  
Test Start: 2017.05.30 @ 19:08:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
165.00	Mud 100m - Misrun	2.315

Total Length: 165.00 ft      Total Volume: 2.315 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

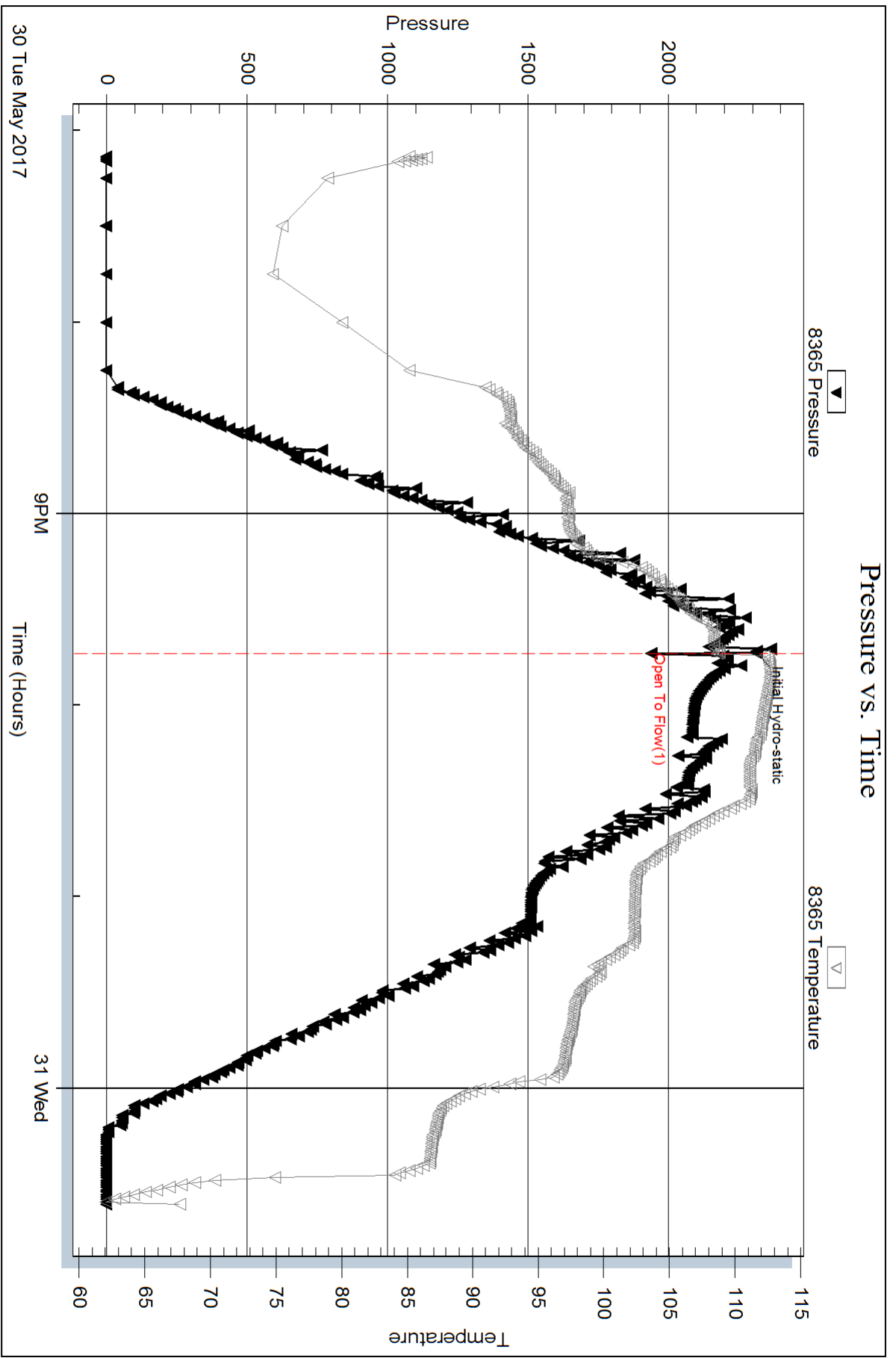
Serial #: 8365

Inside

Hartman Oil Co, Inc

21-17s-34w Scott, KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61365

Printed: 2017.06.02 @ 08:32:47



## DRILL STEM TEST REPORT

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

10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206

ATTN: Chris Peters

**21-17s-34w Scott,,KS**

**Wilkinson Trust Unit #1-21**

Start Date: 2017.05.31 @ 00:50:00

End Date: 2017.05.31 @ 07:47:45

Job Ticket #: 61366                      DST #: 3

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

Printed: 2017.06.02 @ 08:32:18

Hartman Oil Co, Inc

Wilkinson Trust Unit #1-21

21-17s-34w Scott,,KS

DST # 3

Pawnee

2017.05.31



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Hartman Oil Co, Inc  
 10500 E Berkeley Sq Pkw y  
 Ste 600  
 Wichita, KS 67206  
 ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
 Job Ticket: 61366 **DST#: 3**  
 Test Start: 2017.05.31 @ 00:50:00

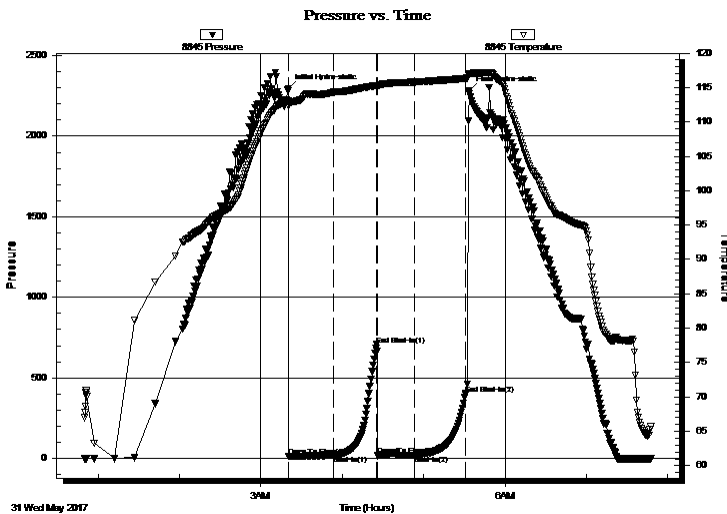
## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)  
 Time Tool Opened: 03:20:45 Tester: Bradley Walter  
 Time Test Ended: 07:47:45 Unit No: 78  
**Interval: 4551.00 ft (KB) To 4580.00 ft (KB) (TVD)** Reference Elevations: 3112.00 ft (KB)  
 Total Depth: 4580.00 ft (KB) (TVD) 3102.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**  
 Press@RunDepth: 17.88 psig @ 4552.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.05.31 End Date: 2017.05.31 Last Calib.: 2017.05.31  
 Start Time: 00:50:05 End Time: 07:47:44 Time On Btm: 2017.05.31 @ 03:20:15  
 Time Off Btm: 2017.05.31 @ 05:33:30

TEST COMMENT: IF: 1/2" blow .  
 IS: No return.  
 FF: Surface blow .  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2295.90	113.06	Initial Hydro-static
1	13.40	112.35	Open To Flow (1)
34	20.74	114.32	Shut-In(1)
66	706.06	115.30	End Shut-In(1)
66	16.79	115.08	Open To Flow (2)
93	17.88	115.79	Shut-In(2)
131	400.69	116.33	End Shut-In(2)
134	2283.90	116.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100m (oil spots)	0.21

## 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  
10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61366 **DST#: 3**  
Test Start: 2017.05.31 @ 00:50:00

## Tool Information

Drill Pipe:	Length: 4564.00 ft	Diameter: 3.80 inches	Volume: 64.02 bbl	Tool Weight: 2500.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 64.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4551.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	4580.00 ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4532.00	
Shut In Tool	5.00			4537.00	
Hydraulic tool	5.00			4542.00	
Packer	5.00			4547.00	20.00 Bottom Of Top Packer
Packer	4.00			4551.00	
Stubb	1.00			4552.00	
Recorder	0.00	8365	Inside	4552.00	
Recorder	0.00	8845	Outside	4552.00	
Perforations	25.00			4577.00	
Bullnose	3.00			4580.00	29.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>49.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hartman Oil Co, Inc  
10500 E Berkeley Sq Pkwy  
Ste 600  
Wichita, KS 67206  
ATTN: Chris Peters

**Wilkinson Trust Unit #1-21**  
**21-17s-34w Scott,,KS**  
Job Ticket: 61366      **DST#: 3**  
Test Start: 2017.05.31 @ 00:50:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

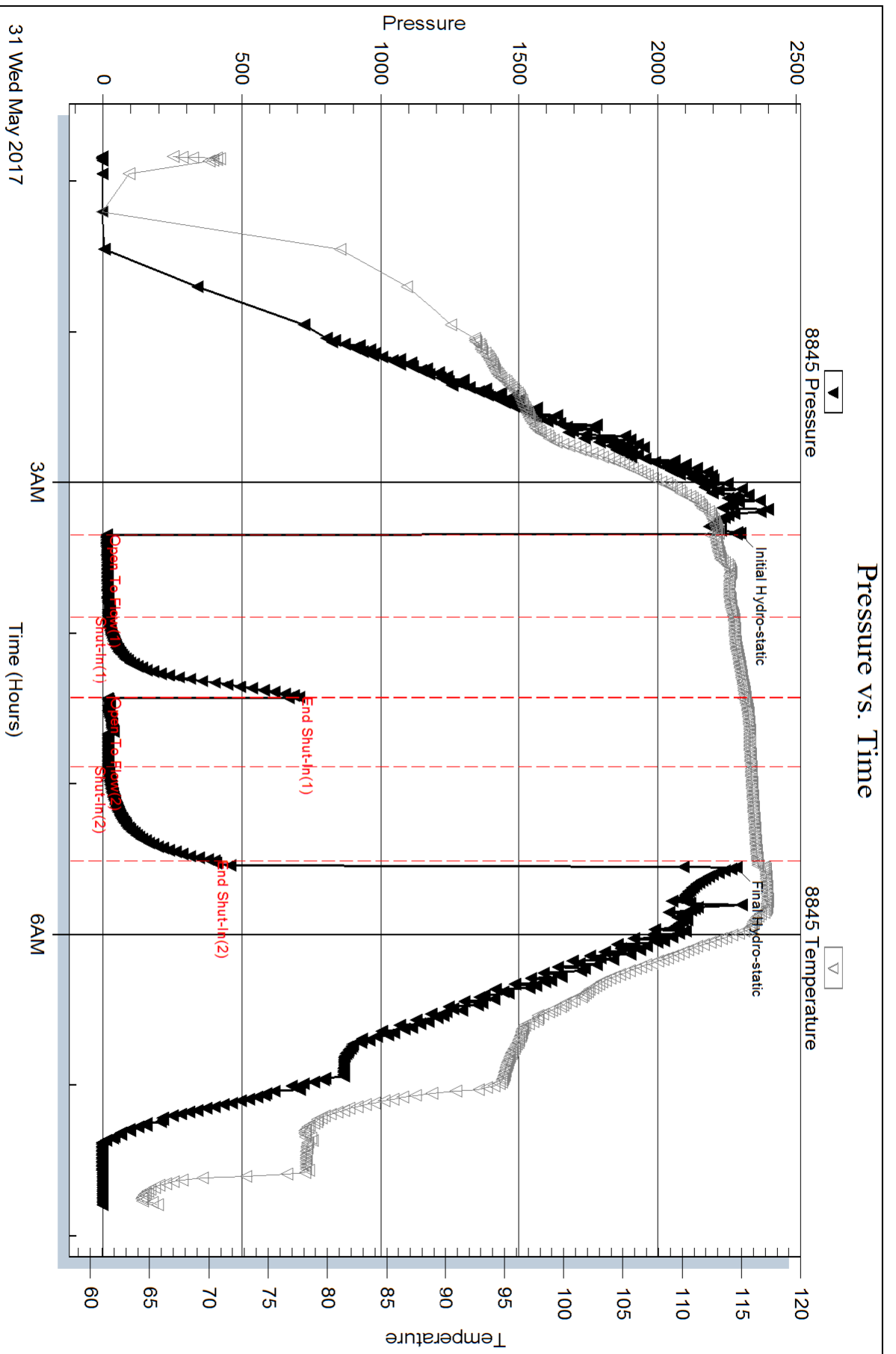
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100m (oil spots)	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:





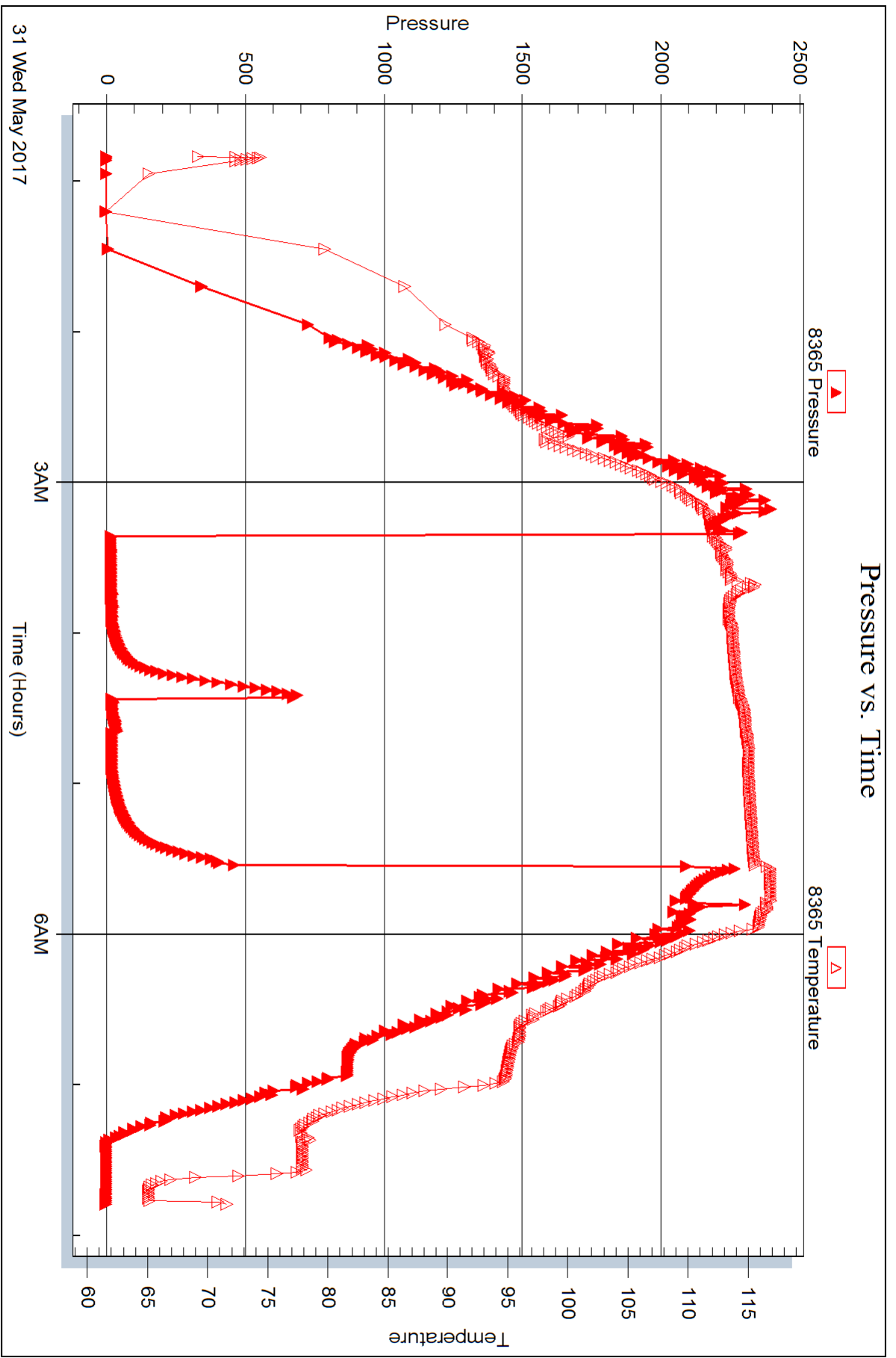
Serial #: 8365

Inside

Hartman Oil Co, Inc

21-17s-34w Scott, KS

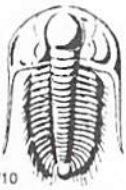
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 61366

Printed: 2017.06.02 @ 08:32:19



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61364

Well Name & No. Wilkinson Trust Unit #1-21 Test No. 1 Date 5/30/2017  
 Company Hartman Oil Co, Inc Elevation 3112 KB 302 GL  
 Address 10500 E Berkely Sq Pkwy Ste 600 Wichita, KS 67606  
 Co. Rep / Geo. Chris Peters Rig Southwind #1  
 Location: Sec. 21 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4455-4540 Zone Tested Marmaton  
 Anchor Length 85 Drill Pipe Run 4465 Mud Wt. 9.0  
 Top Packer Depth 4450 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 4455 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4540 Chlorides 3000 ppm System LCM 2<sup>#</sup>

Blow Description IF 200 @ 27 min  
ISS No return.  
FP BOB @ 25 min.  
FS No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>165</u>	<u>6 MCO</u>	<u>25</u>	<u>60</u>	<u>15</u>	
	<u>200' GJP</u>				

Rec Total 165 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2213</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>1815 5/27</u>
(B) First Initial Flow	<u>20</u>	<input type="checkbox"/> Jars		T-Started	<u>1825</u>
(C) First Final Flow	<u>48</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>0250</u>
(D) Initial Shut-In	<u>1210</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>0540</u>
(E) Second Initial Flow	<u>57</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>0818</u>
(F) Second Final Flow	<u>77</u>	<input checked="" type="checkbox"/> Mileage	<u>3544 26.25</u>	Comments	
(G) Final Shut-In	<u>1206</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2216</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
		<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Flow	<u>30</u>	<input type="checkbox"/> Day Standby		Total	<u>1176.25</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1176.25</u>		

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. **61365**

Well Name & No. Wilkinson Trust Unit #1-21 Test No. 2 Date 5/30/2017  
 Company Hartman Oil Co, Inc Elevation 3112 KB 3102 GL  
 Address 10500 E Berkely Sq Pkwy Wichita, KS 67606  
 Co. Rep / Geo. Chris Peters Rig Southwind #1  
 Location: Sec. 21 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4536 - 4580 Zone Tested Law 10e  
 Anchor Length 44 Drill Pipe Run 4530 Mud Wt. 9.0  
 Top Packer Depth 4531 Drill Collars Run — Vis 57  
 Bottom Packer Depth 4536 Wt. Pipe Run — WL 9.6  
 Total Depth 4580 Chlorides 6200 ppm System LCM 2#

Blow Description Packers did not seat

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	Feet of	%gas	%oil	%water	%mud

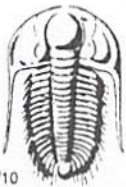
Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 950 T-On Location 1830  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 1907  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 2130  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 2130  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 0037  
 (F) Second Final Flow \_\_\_\_\_  Mileage 35 RT 26.25 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 976.25  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 976.25

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61366

4/10

Well Name & No. Wilkinson Trust Unit #1-21 Test No. 3 Date 5/31/2017  
 Company Hartman O.I Co, Inc Elevation 3112 KB 3102 GL  
 Address 10500 E Berkelly Sq Pkwy Ste 600 Wichita, KS 67206  
 Co. Rep / Geo. Chris Peters Rig Southwind #1  
 Location: Sec. 21 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4551 - 4580 Zone Tested Pawnee  
 Anchor Length 29' Drill Pipe Run 4564 Mud Wt. 9.0  
 Top Packer Depth 4546 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 4551 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4580 Chlorides 6200 ppm System LCM 2#

Blow Description IF 1/2" blow  
ISI No return  
FF Surface blow  
FSE No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MOP</u>			<u>100</u>	
	<u>Oil Spots</u>				

Rec Total 15 BHT 117 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>2296</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0040</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars	T-Started <u>0050</u>
(C) First Final Flow <u>21</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0320</u>
(D) Initial Shut-In <u>706</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>0525</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0748</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage	Comments
(G) Final Shut-In <u>401</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2284</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1150</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1150</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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TICKET NUMBER 53613  
 LOCATION Ogkley Ks  
 FOREMAN Jerry Y  
M. L. S.

**WELL TICKET & TREATMENT REPORT**  
**CEMENT**

620-431-9210 or 800-467-8676

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
9-2-17	3613	Wilkinson Trust Unit 121	21	17s	34w	Scott																
CUSTOMER <u>Hartman Oil</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>753</td> <td>M. L. S.</td> <td></td> <td></td> </tr> <tr> <td>772T127</td> <td>Seth O</td> <td></td> <td></td> </tr> <tr> <td>530 T129</td> <td>Seth O</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	753	M. L. S.			772T127	Seth O			530 T129	Seth O		
TRUCK #	DRIVER	TRUCK #	DRIVER																			
753	M. L. S.																					
772T127	Seth O																					
530 T129	Seth O																					
MAILING ADDRESS			Scott City, MO to 190 W to Bauer to gate E into																			
CITY	STATE	ZIP CODE																				

JOB TYPE Port Collar / sgs HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 7/8 OTHER PC @ 2410  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Salty water only up on this case well since fill tubing w/ 14661 mud test tool  
1400' open tool pump @ 1500 bbl mud - no circulation - mix 150 lbs/sk + 150 hulls shut down  
with 15 min mix 50 sks more & dis place down pull tubing & port @ 1400' mix 50  
liteblend VII @ tail in 255 sks com 38cc 28 gal & displace 32461 down casing @ 1200'  
shut down wait for cement to set

*Thank you  
Jerry & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0451	1	PUMP CHARGE	1900.00	1900.00
CE 0002	40	MILEAGE	7.15	286.00
CE 0710	11.93	tax mileage delivery	1.75	835.10
CC 5831	250 sks	liteblend VII	17.50	4375.00
CC 6080	150 #	hulls	.50	75.00
CC 5871	25 sks	surfire blend II	23.00	575.00
			subtotal	8046.10
			-30%	2413.83
			subtotal	5632.27
			SALES TAX	
			ESTIMATED	
			TOTAL	

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PRESSURE PUMPING

820-431-8210 or 800-667-8676

TICKET NUMBER **53614**LOCATION **Oskaloja KS**FOREMAN **Jerry Y****Miles**ELD TICKET & TREATMENT REPORT  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	CO.
9-22-17	3613	Wilkinson Treatlft + 1st	ed 1	17s	34w	Scott
CUSTOMER		Hortman Oil	So. H.C. 4 W 1/4 P10 W 1/4 Sec 5 N 1/4 g 4 E 1/4			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY		STATE	ZIP CODE	530-7189	5-460	
				772-7117	5-460	
JOB TYPE	SPURRING HEAD	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT	5 1/2	
CASING DEPTH		DRILL PIPE	TUBING	OTHER		
SLURRY WEIGHT		SLURRY VOL	WATER gpm	CEMENT LEFT IN CASING		
DISPLACEMENT		DISPLACEMENT PSI	MIX PSI	RATE		

REMARKS: Satisfy ready mix up on Hurricane Well secure Perf @ 580 circled  
 25 bbl mix 80 sks @ 240 825 bring cement to surface tail in with 20 sks  
 can see & displace 74 bbl and shut in

Thank you  
 Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0951	1	PUMP CHARGE	1900.00	1900.00
CE0007	40	MILEAGE	7.15	
CE0071	4.62	ton mileage delivery	660.00	660.00
CC5831	80 sks	1 lb bleed III	17.50	1400.00
CC5871	25 sks	Surface bleed III	23.00	575.00
			Subtotal	4535.00
			-208	1360.50
			Subtotal	3174.50
			SALES TAX	
			ESTIMATED	
			TOTAL	
			DATE	

I hereby acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.