

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

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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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Hartman Oil Co., Inc  
 10500 E. Berkley Sq. Pkwy, STE 100  
 Wichita, Ks. 67206  
 ATTN: Kitt Noah

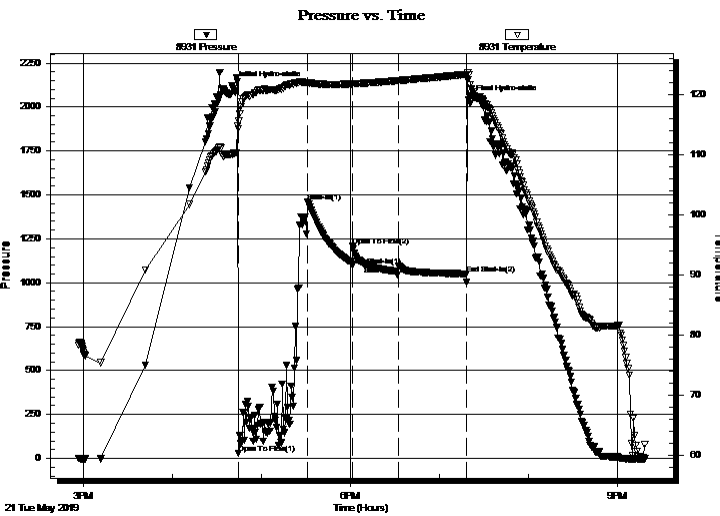
**4-31s-7w Harper Co. Ks.**  
**Sanders #3**  
 Job Ticket: 64926 **DST#: 3**  
 Test Start: 2019.05.21 @ 14:56:53

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:44:38  
 Time Test Ended: 21:19:08  
 Interval: **4377.00 ft (KB) To 4384.00 ft (KB) (TVD)**  
 Total Depth: 4384.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1612.00 ft (KB)  
 1607.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8931 Inside**  
 Press@RunDepth: 1094.35 psig @ 4378.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.05.21 End Date: 2019.05.21 Last Calib.: 2019.05.21  
 Start Time: 14:56:58 End Time: 21:19:07 Time On Btm: 2019.05.21 @ 16:40:23  
 Time Off Btm: 2019.05.21 @ 19:20:08

TEST COMMENT: IF: Weak blow . Built to 3 1/2".  
 IS: No blow .  
 FF: No blow .  
 FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.58	109.99	Initial Hydro-static
5	30.37	114.32	Open To Flow (1)
51	1462.38	121.96	Shut-In(1)
81	1097.68	121.70	End Shut-In(1)
82	1211.54	121.77	Open To Flow (2)
113	1094.35	122.28	Shut-In(2)
158	1050.44	123.29	End Shut-In(2)
160	2040.85	123.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	DM 100% m	0.15

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hartman Oil Co., Inc  
10500 E. Berkley Sq. Pkwy, STE 100  
Wichita, Ks. 67206  
ATTN: Kitt Noah

**4-31s-7w Harper Co. Ks.**  
**Sanders #3**  
Job Ticket: 64926      **DST#: 3**  
Test Start: 2019.05.21 @ 14:56:53

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	7000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 7000.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	DM 100% m	0.152

Total Length: 20.00 ft      Total Volume: 0.152 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:

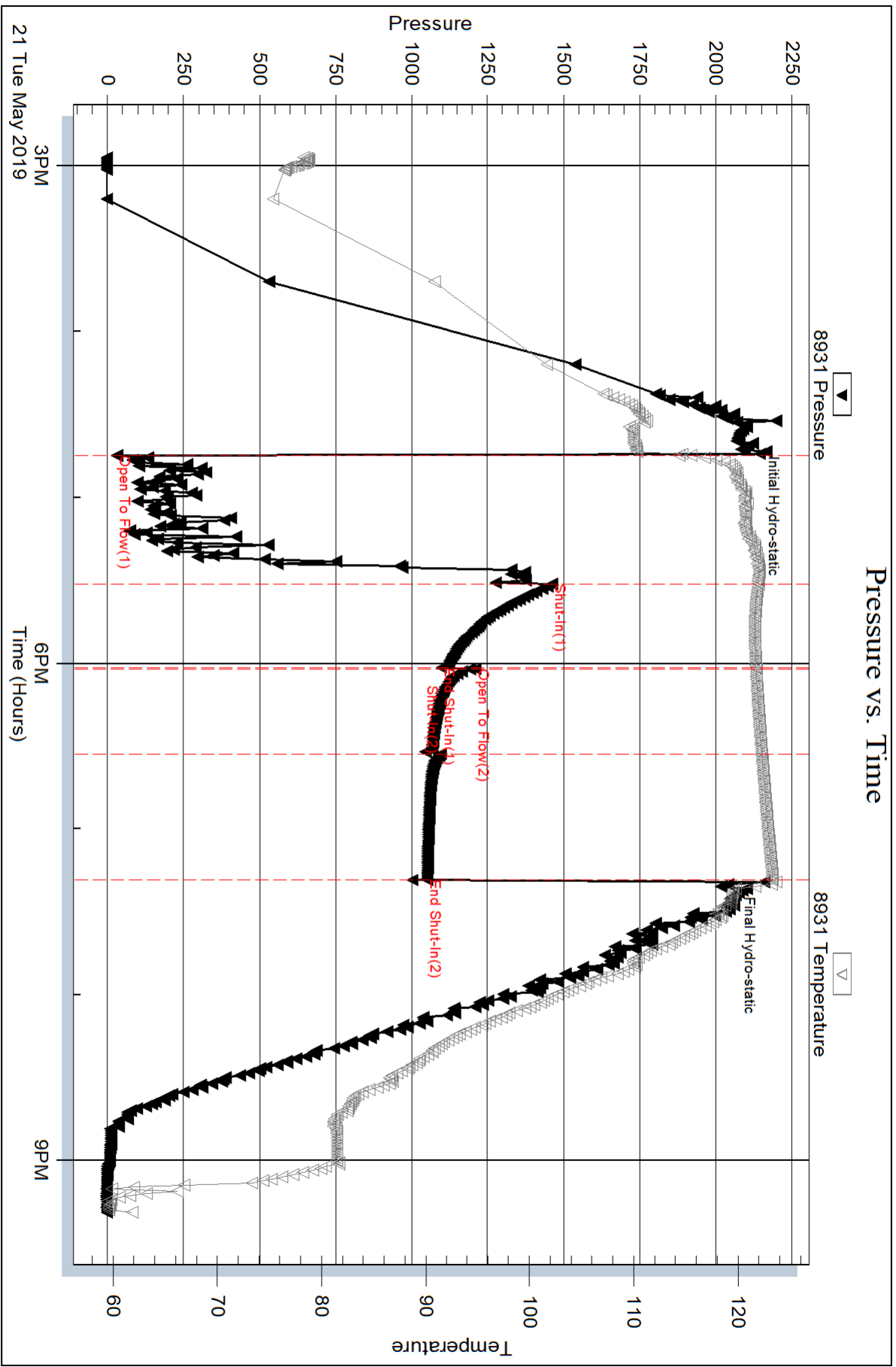
Serial #: 8931

Inside

Hartman Oil Co., Inc

Sanders #3

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64926

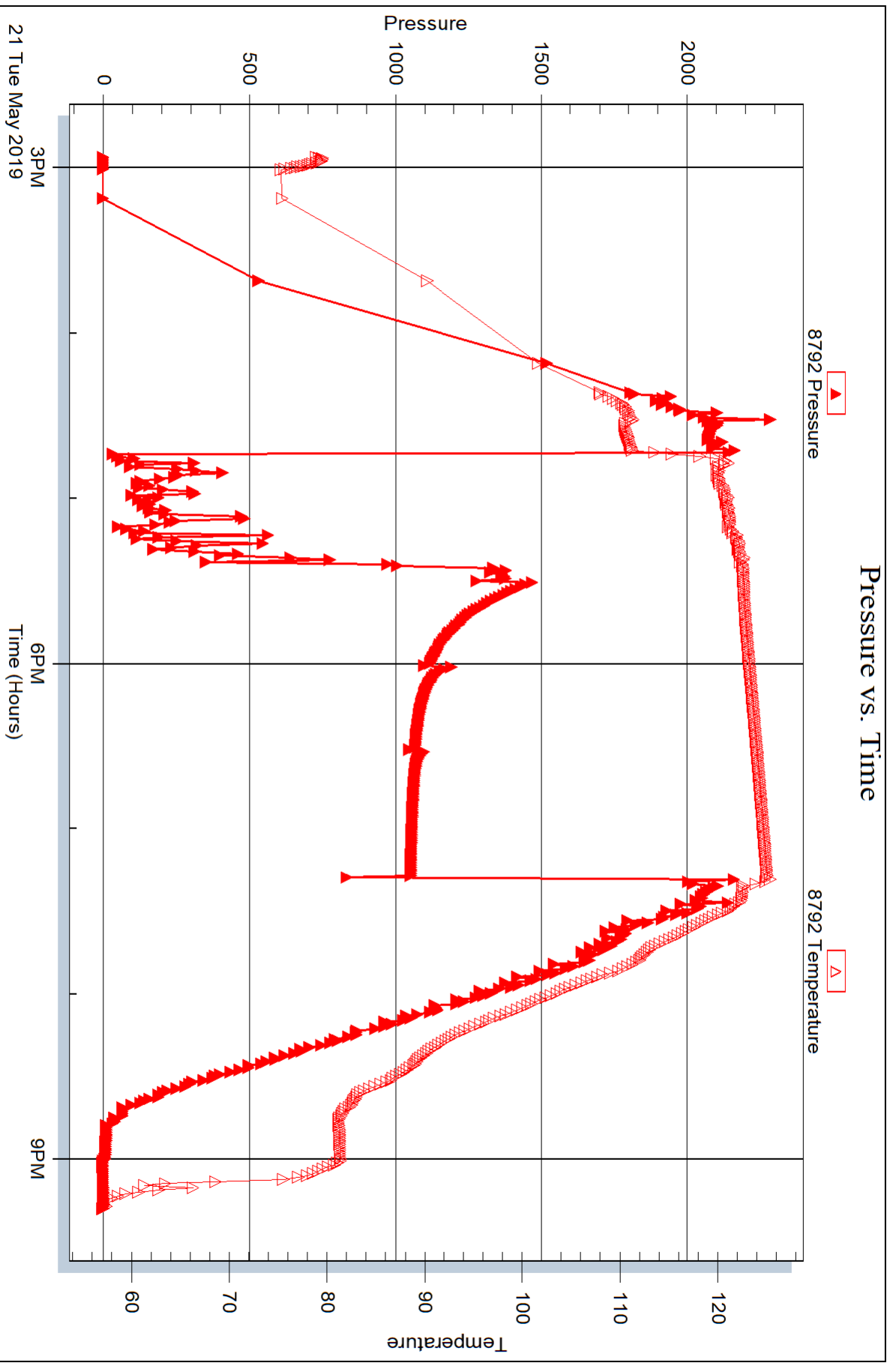
Printed: 2019.05.21 @ 22:13:20

Serial #: 8792

Outside Hartman Oil Co., Inc

Sanders #3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64926

Printed: 2019.05.21 @ 22:13:20









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hartman Oil Co., Inc  
10500 E. Berkley Sq. Pkwy, STE 100  
Wichita, Ks. 67206  
ATTN: Kitt Noah

**4-31s-7w Harper Co. Ks.**  
**Sanders #3**  
Job Ticket: 64924      **DST#: 1**  
Test Start: 2019.05.20 @ 03:58:33

## Mud and Cushion Information

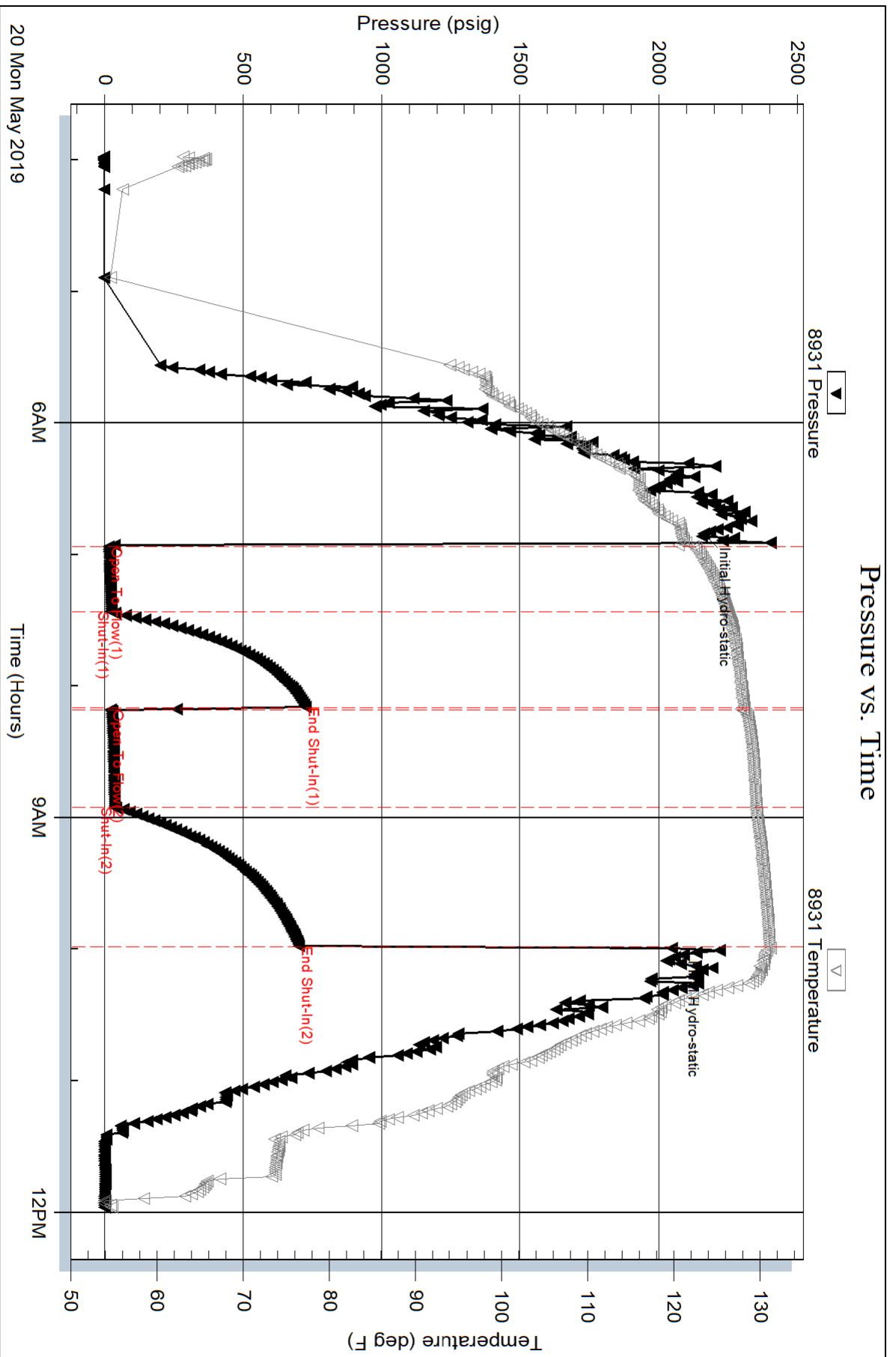
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	11500 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 11500.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GSOWCM 17%g 8%o 10%w 65%m	0.457
0.00	320' G.I.P.	0.000

Total Length: 60.00 ft      Total Volume: 0.457 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

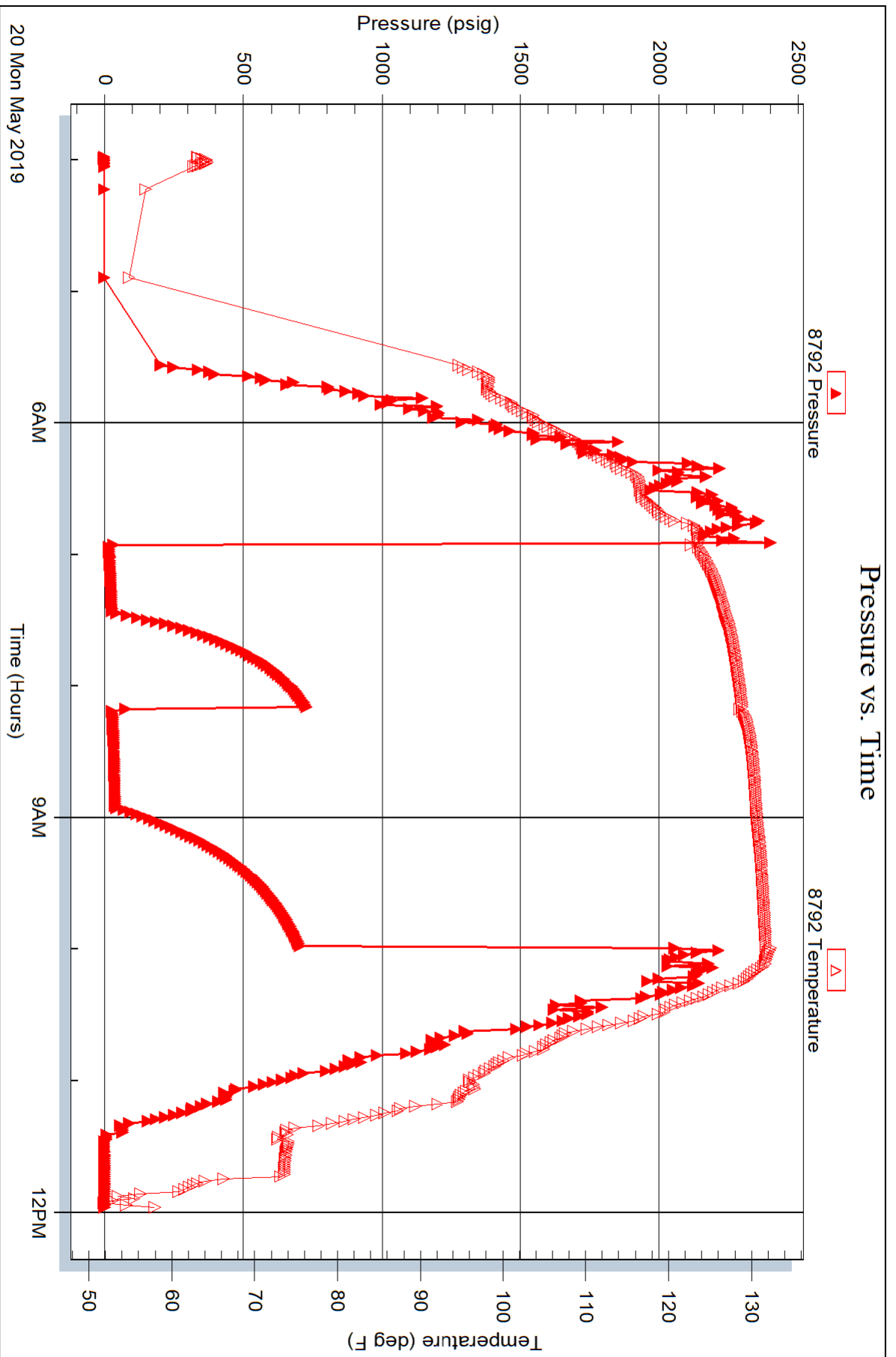


Serial #: 8792

Outside Hartman Oil Co., Inc

Sanders #3

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Hartman Oil Co., Inc  
 10500 E. Berkley Sq. Pkwy, STE 100  
 Wichita, Ks. 67206  
 ATTN: Kitt Noah

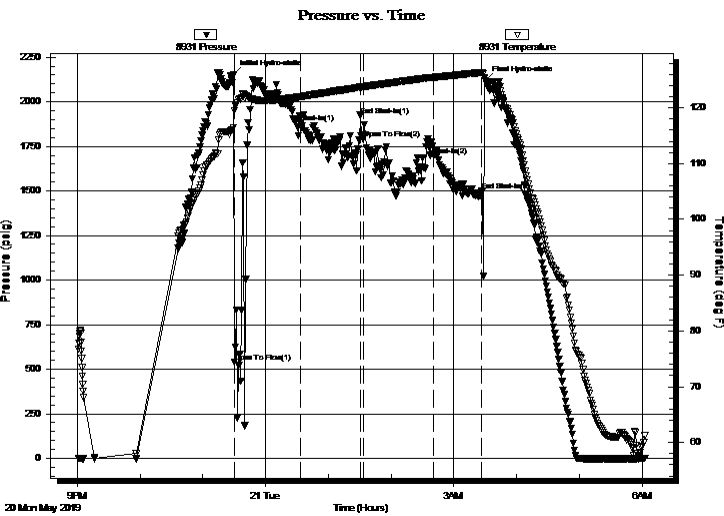
**4-31s-7w Harper Co. Ks.**  
**Sanders #3**  
 Job Ticket: 64925      **DST#: 2**  
 Test Start: 2019.05.20 @ 21:01:15

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 23:30:15  
 Time Test Ended: 06:02:45  
 Interval: **4377.00 ft (KB) To 4384.00 ft (KB) (TVD)**  
 Total Depth: 4384.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 1612.00 ft (KB)  
 1607.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8931      Inside**  
 Press@RunDepth: 1699.40 psig @ 4378.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.05.20      End Date: 2019.05.21      Last Calib.: 2019.05.21  
 Start Time: 21:01:20      End Time: 06:02:45      Time On Btm: 2019.05.20 @ 23:29:15  
 Time Off Btm: 2019.05.21 @ 03:30:15

**TEST COMMENT:** IF: Weak blow . Built to 5.18".  
 IS: Weak blow . Built to 3.12".  
 FF: No blow .  
 FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.17	116.42	Initial Hydro-static
1	539.51	119.53	Open To Flow (1)
64	1883.66	122.01	Shut-In(1)
121	1924.68	123.75	End Shut-In(1)
124	1790.95	123.77	Open To Flow (2)
191	1699.40	125.45	Shut-In(2)
237	1499.77	126.32	End Shut-In(2)
241	2119.81	124.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	TDM 100% mud	0.46

\* 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. Berkley Sq. Pkwy, STE 100  
Wichita, Ks. 67206  
ATTN: Kitt Noah

**4-31s-7w Harper Co. Ks.**  
**Sanders #3**  
Job Ticket: 64925      **DST#: 2**  
Test Start: 2019.05.20 @ 21:01:15

**Tool Information**

Drill Pipe:	Length: 4248.00 ft	Diameter: 3.80 inches	Volume: 59.59 bbl	Tool Weight: 2100.00 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: 115.00 ft	Diameter: 2.80 inches	Volume: 0.88 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 60.47 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4377.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer is in Tool length.

Tool set and opened 13 1/2 ft high.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4350.00	
Shut In Tool	5.00			4355.00	
Hydraulic tool	5.00			4360.00	
Jars	5.00			4365.00	
Safety Joint	3.00			4368.00	
Packer	4.00			4372.00	28.00      Bottom Of Top Packer
Packer	5.00			4377.00	
Stubb	1.00			4378.00	
Recorder	0.00	8931	Inside	4378.00	
Recorder	0.00	8792	Outside	4378.00	
Perforations	3.00			4381.00	
Bullnose	3.00			4384.00	7.00      Bottom Packers & Anchor

**Total Tool Length: 35.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Hartman Oil Co., Inc  
10500 E. Berkley Sq. Pkwy, STE 100  
Wichita, Ks. 67206  
ATTN: Kitt Noah

**4-31s-7w Harper Co. Ks.**  
**Sanders #3**  
Job Ticket: 64925      **DST#: 2**  
Test Start: 2019.05.20 @ 21:01:15

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	11000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 11000.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	TDM 100% mud	0.457

Total Length: 60.00 ft      Total Volume: 0.457 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: Mud was so thick it looked like Paste. Bottom Hole Collar completely full.

Serial #: 8931

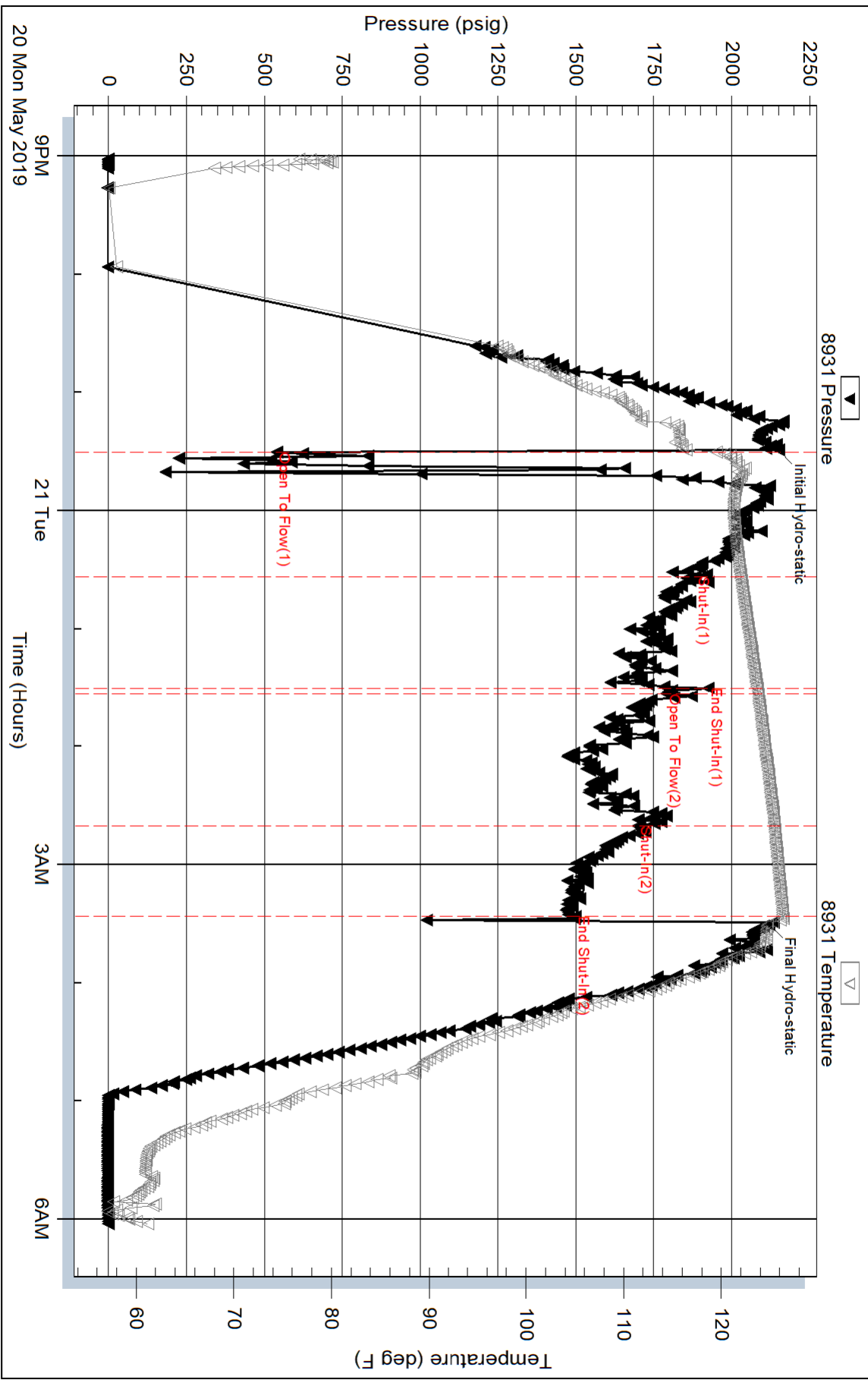
Inside

Hartman Oil Co., Inc

Sanders #3

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64925

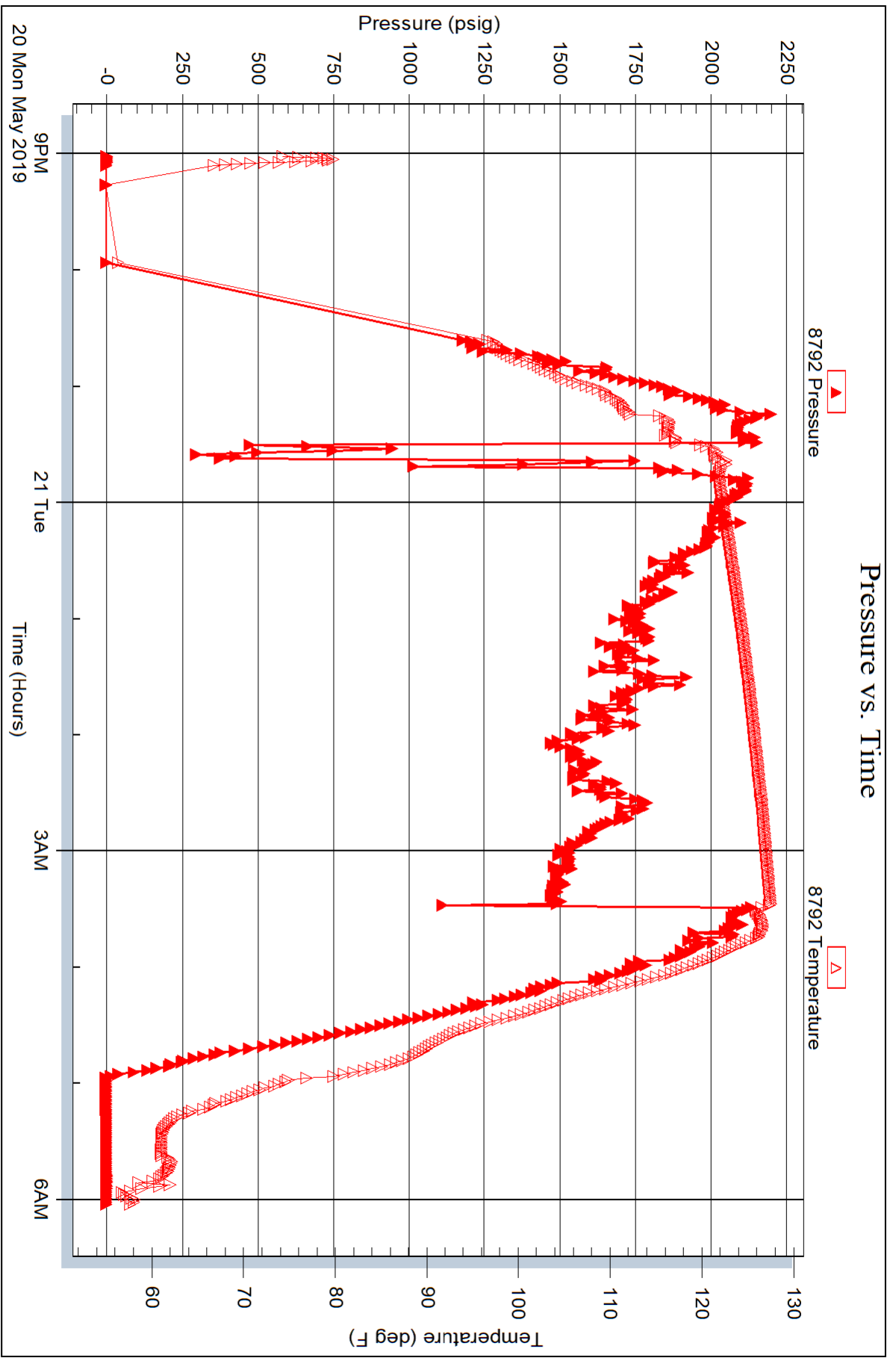
Printed: 2019.05.21 @ 07:35:15

Serial #: 8792

Outside Hartman Oil Co., Inc

Sanders #3

DST Test Number: 2



810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. **4455**  
 Foreman David Gardner  
 Camp Eureka

API# 15-077-22181

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
5-14-19	1320	Sanders #3	4	31 S	7W	Harper	KS	
Customer	Mailing Address	City	State	Zip Code	Unit #	Driver	Unit #	Driver
Hartman Oil Co. INC	10500 E. Berkeley Sq. PKWY, Ste. 100	Wichita	KS	67206	105	Jason		
					110	Josh		

Job Type Surface Hole Depth 263' Slurry Vol. 48 Bbl Tubing \_\_\_\_\_  
 Casing Depth 256.13' Hole Size 12 1/4 Slurry Wt. 15# Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 23# 8 5/8" Cement Left in Casing 10' +/- Water Gal/SK 6.5 Other \_\_\_\_\_  
 Displacement 116.5 Bbl Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM 5

Remarks: Safety Meeting. Rig up to 8 5/8" casing. Break circulation w/ 10 Bbl fresh water. Mixed 200 sks Class 'A' cement w/ 3% Cactz, 2% Gel, 1/4" Floseal/sk @ 15#/gal, yield: 1.35 = 48 Bbl Slurry. Displace w/ 116.5 Bbl fresh water. Shut down. Close casing in. Set cellar out and had good cement to surface. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	890.00	890.00
C107	100	Mileage	4.20	420.00
C200	200 SKS	Class 'A' Cement	15.75	3150.00
C205	560#	Cactz @ 3%	.63	352.80
C206	375#	Gel @ 2%	.21	78.75
C209	50	Floseal @ 1/4"/sk	2.35	117.50
C108B	9.4 Tons	Ton Mileage - Bulk Truck	1.40	1316.00
<u>Thank You</u>				
			Sub Total	6,325.05
			Less 5%	328.27
			Sales Tax 6.5%	240.44
Authorization <u>[Signature]</u> 5/14/19 Title _____			Total	6,237.22

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

