

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

12200

12090

TICKET NUMBER 56001

LOCATION Cable, KS

FOREMAN Jerry

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #814765

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-20-18	3613	Garden City B-6	8	22 ^S	33 ^W	Franklin
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Hartman Oil			753	Cory W		
MAILING ADDRESS			772-T-12	Walt D		
10500 E. Berkley Square Pkwy, Ste. 100			535	Jerry		
CITY	STATE	ZIP CODE				
Wichita	KS	67206				

JOB TYPE Part Colbr HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 7/8
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8 OTHER PC @ 2037
 SLURRY WEIGHT 12.5 SLURRY VOL 1.89 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 10 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting @ rig upon Hartman test tool @ 1000' open tool + take finger rate 4 1/2 R/B/P/R @ 1000' mix 250 s/s 60/40 82 1/4" flow with 500' hulls circulating cement to surface wash up = disp 10 3/4 bbl close tool press to 1000' hold 5 min run 3 strokes + reverse clean with 40 bbl run tubing down to bridge plug + circulate sand off retrievable with 40 bbl H₂O

Cement circulated to surface

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	65	MILEAGE	7.15	464.75
CE0710	10.75	for mileage delivery	1.75	1222.81
CC5831	250 s/s	lute blend UTS	17.50	4375.00
CC5965	200 ^{HL}	gel	.30	60.00
CC6580	500 ^{HL}	cottonseed hulls	1.00	500.00
CC6075	63 ^{HL}	Flow seal	3.00	189.00
CC5326	100 ^{HL}	salt	N/C	N/C
			Subtotal	8711.56
			-258	2177.89
			Subtotal	6533.67
			SALES TAX	305.52
			ESTIMATED TOTAL	6839.19

Ravin 3737

AUTHORIZATION [Signature]

TITLE _____

DATE 12/20/18

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

TICKET NUMBER 55931
 LOCATION Oakl, KS
 FOREMAN M/S Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-22-18	3613	Cardinality B-6	8	22 S	33 W	Finney, KS
CUSTOMER Hartman Oil			TERMS: KS EXOCR BIGLOWE IS E INTO			
MAILING ADDRESS						
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
			753	Corra W		
			70	Neil W		
			703	M/S S		

JOB TYPE long string HOLE SIZE 7 7/8" HOLE DEPTH 47 CASING SIZE & WEIGHT 5.5" 15.5#
 CASING DEPTH 4739 DRILL PIPE _____ TUBING _____ OTHER PC @ 2035
 SLURRY WEIGHT 14.2 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING 35.78
 DISPLACEMENT 1 1/2 DISPLACEMENT PSI 1800 MIX PSI _____ RATE _____

REMARKS: Safety Meetings and Review on H2 drilling Risks Ruin casing 1 1/2 Sals
Centralizers on Sals 2, 4, 6, 8, 10, 12, 14, 16, 18, 20. Baskets on Sals 2 + US PC on
Sat 65 @ 2035' Circulate casing 1 hr Pump Mud Flush 500 gal mix 1605,
thixobland III w/ 5# Kds seal. Shutdown and clear pump lines release plus displace
1 1/2 bts water w/ 1200 psi. H plug did land and hold @ 1800 psi.

Mx 30sx KH 20sx MH thanks M/S crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0453	1	PUMP CHARGE	2800.00	2800.00
CE0002	65	MILEAGE	7.15	464.75
CE0710	9.87 Ton	Ton Mileage delivery	11.75	1122.71
CC5862	210 SX	Thixobland III	26.00	5460.00
CC4077	1050 #	Kds seal	1.50	525.00
CC6125	500 gal	Mud Flush	1.65	325.00
CP8254	1	5/8" latchdown Plug + Assembly	400.00	400.00
CP8485	1	5/8" Float Shoe AFH	585.00	585.00
CP8554	10	5/8" Centralizers	81.00	810.00
CP8629	2	5/8" Baskets	385.00	770.00
CP8776	1	5/8" Port Collar	2850.00	2850.00
			Subtotal	16112.46
			less 258 disc count	4028.11
			Subtotal	12084.35
			SALES TAX	
			ESTIMATED TOTAL	

Ravin 3737

AUTHORIZATION _____ 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.



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil**

10500 E. Berkeley SQ Pkwy
STE 100
Wichita KS 67206

ATTN: Chris Peters

Garden City #B-6

8-22s-33w Finney,KS

Start Date: 2018.11.17 @ 17:50:15

End Date: 2018.11.18 @ 05:37:30

Job Ticket #: 64284 DST #: 1

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

Printed: 2018.11.21 @ 11:58:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil
10500 E. Berkeley SQ Pkw y
STE 100
Wichita KS 67206
ATTN: Chris Peters

8-22s-33w Finney,KS

Garden City #B-6

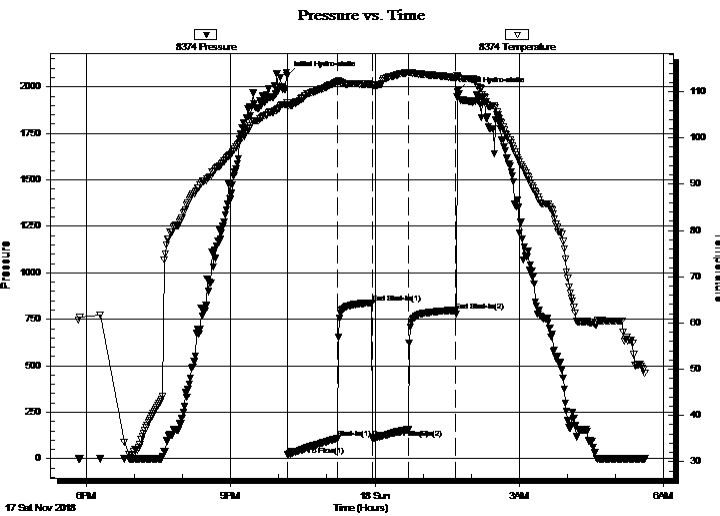
Job Ticket: 64284 **DST#: 1**
Test Start: 2018.11.17 @ 17:50:15

GENERAL INFORMATION:

Formation: **LKC L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:11:00
Time Test Ended: 05:37:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 81
Interval: **4205.00 ft (KB) To 4230.00 ft (KB) (TVD)**
Reference Elevations: 2903.00 ft (KB)
Total Depth: 4230.00 ft (KB) (TVD) 2892.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8374 Inside
Press@RunDepth: 156.38 psig @ 4206.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.11.17 End Date: 2018.11.18 Last Calib.: 2018.11.18
Start Time: 17:50:15 End Time: 05:37:30 Time On Btm: 2018.11.17 @ 22:10:30
Time Off Btm: 2018.11.18 @ 01:43:00

TEST COMMENT: IF: Built to 5" blow
IS: No return blow
FF: Built to 3 1/2" bow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.55	107.53	Initial Hydro-static
1	20.74	107.04	Open To Flow (1)
63	107.76	112.19	Shut-In(1)
106	838.06	111.59	End Shut-In(1)
107	109.64	111.29	Open To Flow (2)
151	156.38	114.13	Shut-In(2)
210	795.67	113.06	End Shut-In(2)
213	1975.36	113.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mud w ith oil spots	0.89
120.00	mcsw 20 %m 80%sw	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil
10500 E. Berkeley SQ Pkwy
STE 100
Wichita KS 67206
ATTN: Chris Peters

8-22s-33w Finney,KS
Garden City #B-6
Job Ticket: 64284 **DST#: 1**
Test Start: 2018.11.17 @ 17:50:15

Tool Information

Drill Pipe:	Length: 3901.00 ft	Diameter: 3.80 inches	Volume: 54.72 bbl	Tool Weight: 500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4205.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	56.00 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			4175.00	
Shut In Tool	5.00			4180.00	
Hydraulic tool	5.00			4185.00	
Jars	5.00			4190.00	
em tool	3.00			4193.00	
Safety Joint	3.00			4196.00	
Packer	5.00			4201.00	31.00 Bottom Of Top Packer
Packer	4.00			4205.00	
Stubb	1.00			4206.00	
Recorder	0.00	8968	Outside	4206.00	
Recorder	0.00	8374	Inside	4206.00	
Perforations	19.00			4225.00	
Bullnose	5.00			4230.00	25.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil
10500 E. Berkeley SQ Pkw y
STE 100
Wichita KS 67206
ATTN: Chris Peters

8-22s-33w Finney,KS
Garden City #B-6
Job Ticket: 64284 **DST#: 1**
Test Start: 2018.11.17 @ 17:50:15

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: 17000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.94 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3400.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mud w ith oil spots	0.885
120.00	mcsw 20 %m 80%sw	0.590

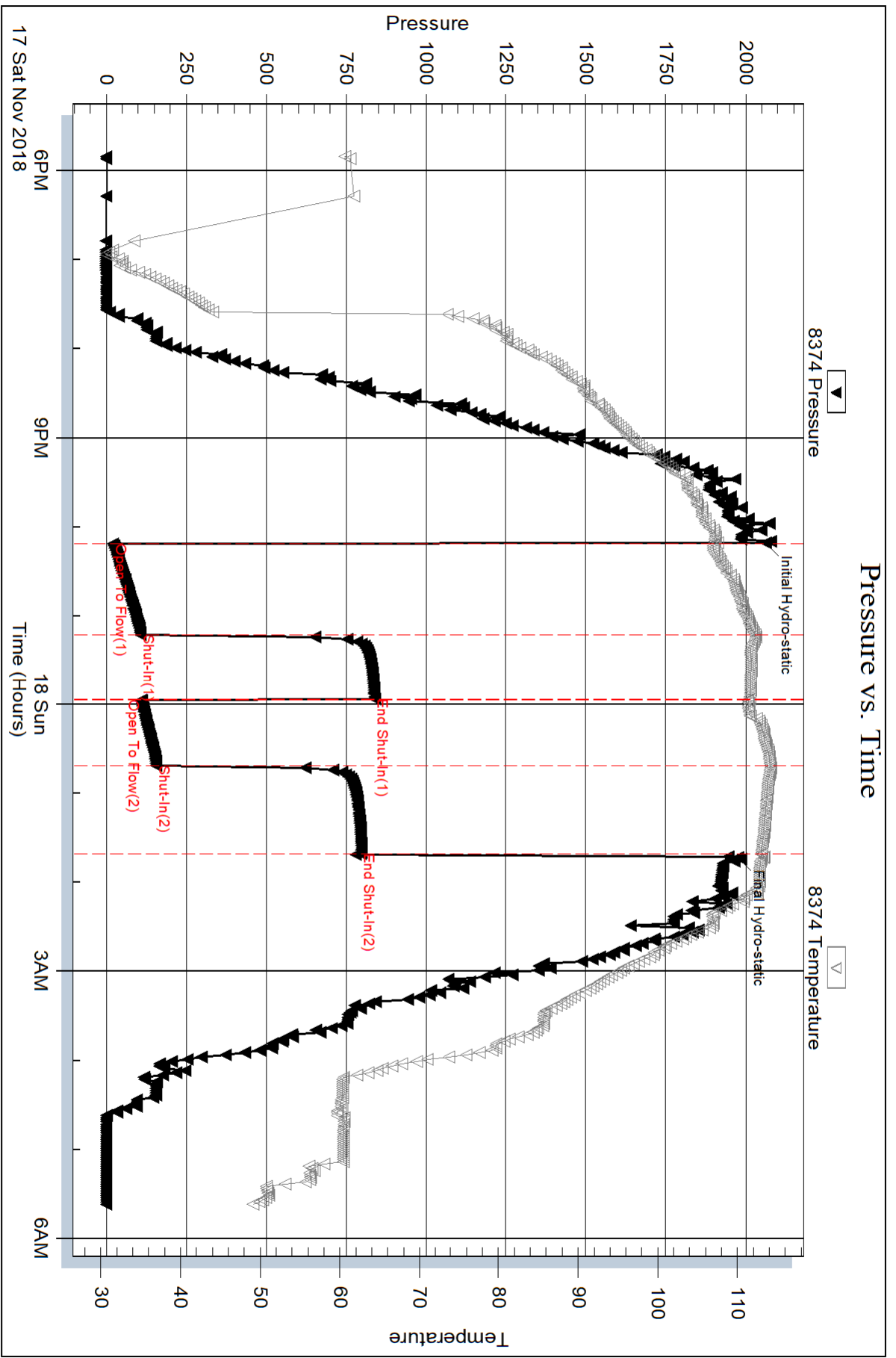
Total Length: 300.00 ft Total Volume: 1.475 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW= .401 @ 73.2 = 17,000 ppm

Serial #: 8374

Inside Hartman Oil

Garden City #B-6

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64284

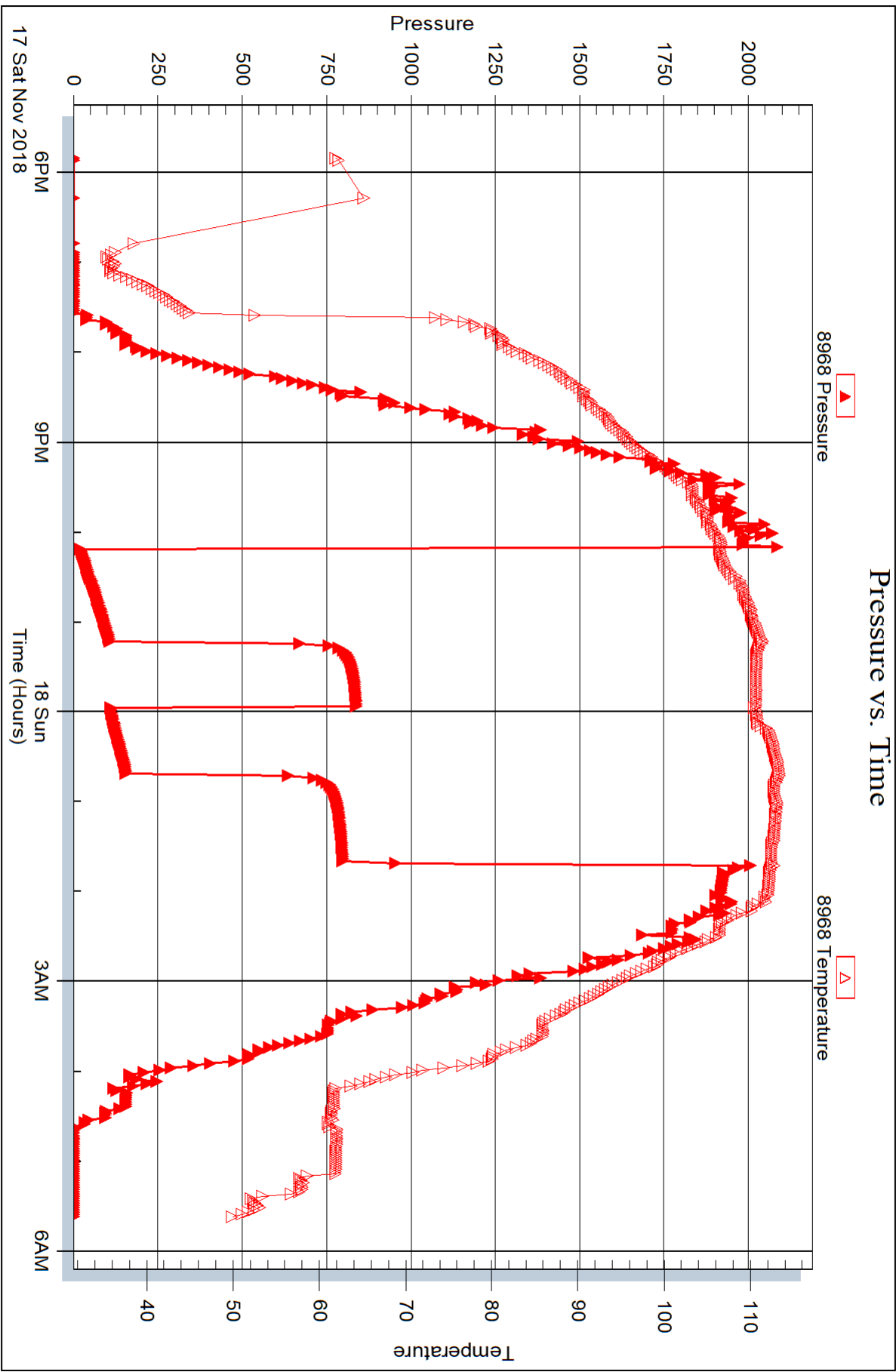
Printed: 2018.11.21 @ 11:58:47

Serial #: 8968

Outside Hartman Oil

Garden City #B-6

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil**

10500 E. Berkeley SQ Pkwy
STE 100
Wichita KS 67206

ATTN: Chris Peters

Garden City #B-6

8-22s-33w Finney,KS

Start Date: 2018.11.19 @ 00:32:15

End Date: 2018.11.19 @ 11:29:30

Job Ticket #: 64285 DST #: 2

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

Printed: 2018.11.21 @ 11:58:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil
 10500 E. Berkeley SQ Pkw y
 STE 100
 Wichita KS 67206
 ATTN: Chris Peters

8-22s-33w Finney,KS
Garden City #B-6
 Job Ticket: 64285 **DST#: 2**
 Test Start: 2018.11.19 @ 00:32:15

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:19:45
 Time Test Ended: 11:29:30
 Interval: **4607.00 ft (KB) To 4665.00 ft (KB) (TVD)**
 Total Depth: 4665.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2903.00 ft (KB)
 2892.00 ft (CF)
 KB to GR/CF: 11.00 ft

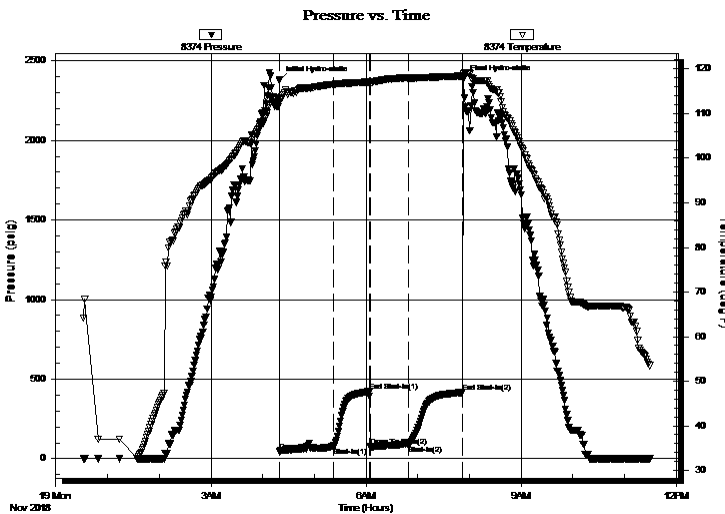
Serial #: 8374

Inside

Press@RunDepth: 85.19 psig @ 4646.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.19 End Date: 2018.11.19 Last Calib.: 2018.11.20
 Start Time: 00:32:15 End Time: 11:29:30 Time On Btm: 2018.11.19 @ 04:19:30
 Time Off Btm: 2018.11.19 @ 07:53:00

TEST COMMENT: IF: Built to 3/4" blow and died to 1/2"
 IS: No return blow
 FF: Built to 1/4" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2374.85	113.11	Initial Hydro-static
1	48.38	112.70	Open To Flow (1)
63	72.02	116.54	Shut-In(1)
105	421.85	117.09	End Shut-In(1)
105	75.50	116.99	Open To Flow (2)
151	85.19	117.95	Shut-In(2)
213	416.28	118.41	End Shut-In(2)
214	2382.67	118.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gchom 3%g 5%o 92%m	0.30
60.00	hocm 3%o 97%m	0.30

* 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
10500 E. Berkeley SQ Pkwy
STE 100
Wichita KS 67206
ATTN: Chris Peters

8-22s-33w Finney,KS
Garden City #B-6
Job Ticket: 64285 **DST#: 2**
Test Start: 2018.11.19 @ 00:32:15

Tool Information

Drill Pipe:	Length: 4313.00 ft	Diameter: 3.80 inches	Volume: 60.50 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: 20000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4607.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	85.00 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			4581.00	
Shut In Tool	5.00			4586.00	
Hydraulic tool	5.00			4591.00	
Jars	5.00			4596.00	
Em tool	3.00			4599.00	
Safety Joint	3.00			4602.00	
Packer	5.00			4607.00	27.00 Bottom Of Top Packer
Packer - Shale	0.00			4607.00	
Stubb	1.00			4608.00	
Perforations	4.00			4612.00	
Change Over Sub	1.00			4613.00	
Drill Pipe	32.00			4645.00	
Change Over Sub	1.00			4646.00	
Recorder	0.00	8968	Outside	4646.00	
Recorder	0.00	8374	Inside	4646.00	
Perforations	14.00			4660.00	
Bullnose	5.00			4665.00	58.00 Anchor Tool
Total Tool Length:	85.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil
10500 E. Berkeley SQ Pkw y
STE 100
Wichita KS 67206
ATTN: Chris Peters

8-22s-33w Finney,KS
Garden City #B-6
Job Ticket: 64285 **DST#: 2**
Test Start: 2018.11.19 @ 00:32:15

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.36 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gchom 3%g 5%o 92%m	0.295
60.00	hocm 3%o 97%m	0.295

Total Length: 120.00 ft Total Volume: 0.590 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

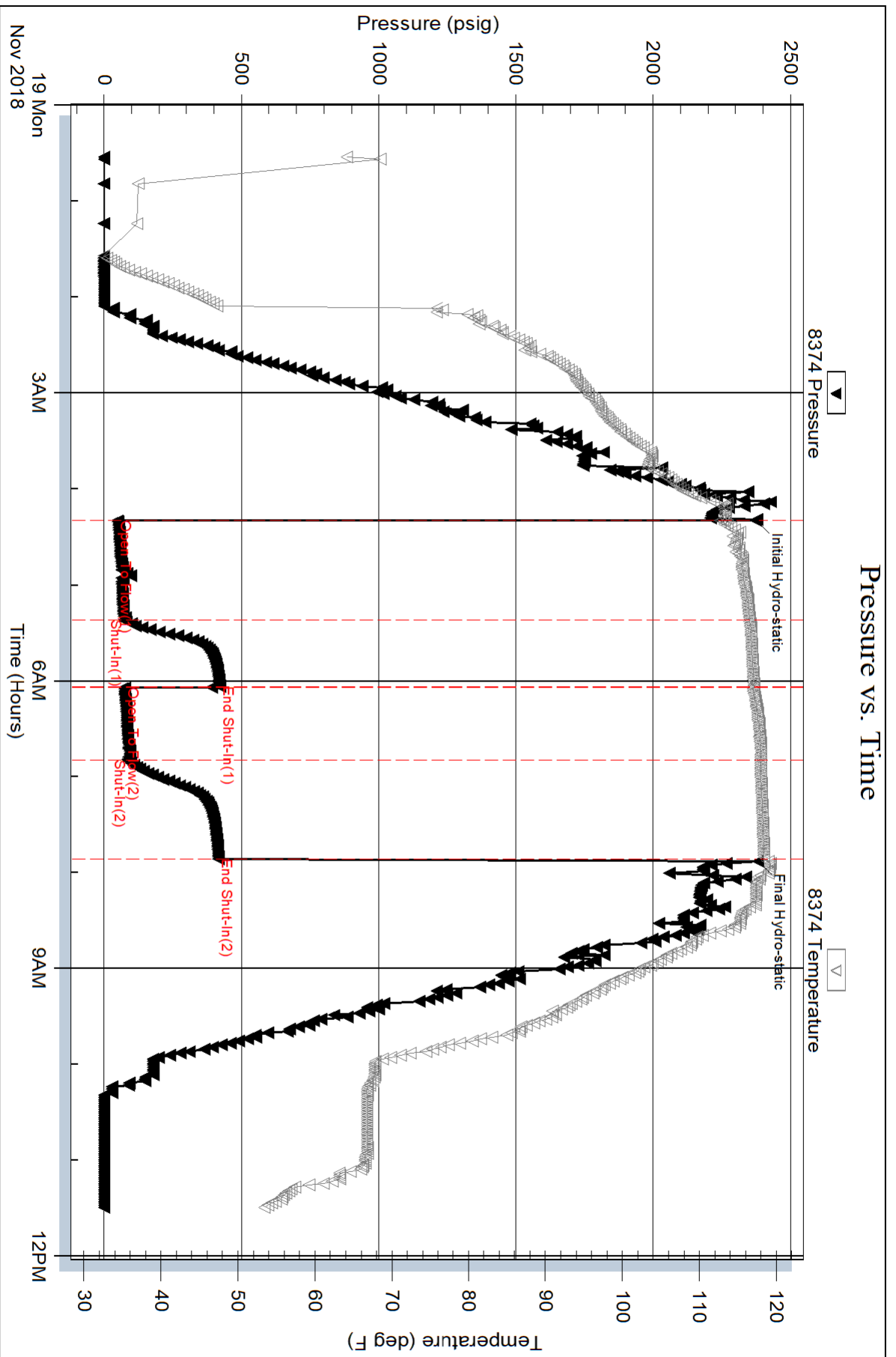
Serial #: 8374

Inside

Hartman Oil

Garden City #B-6

DST Test Number: 2

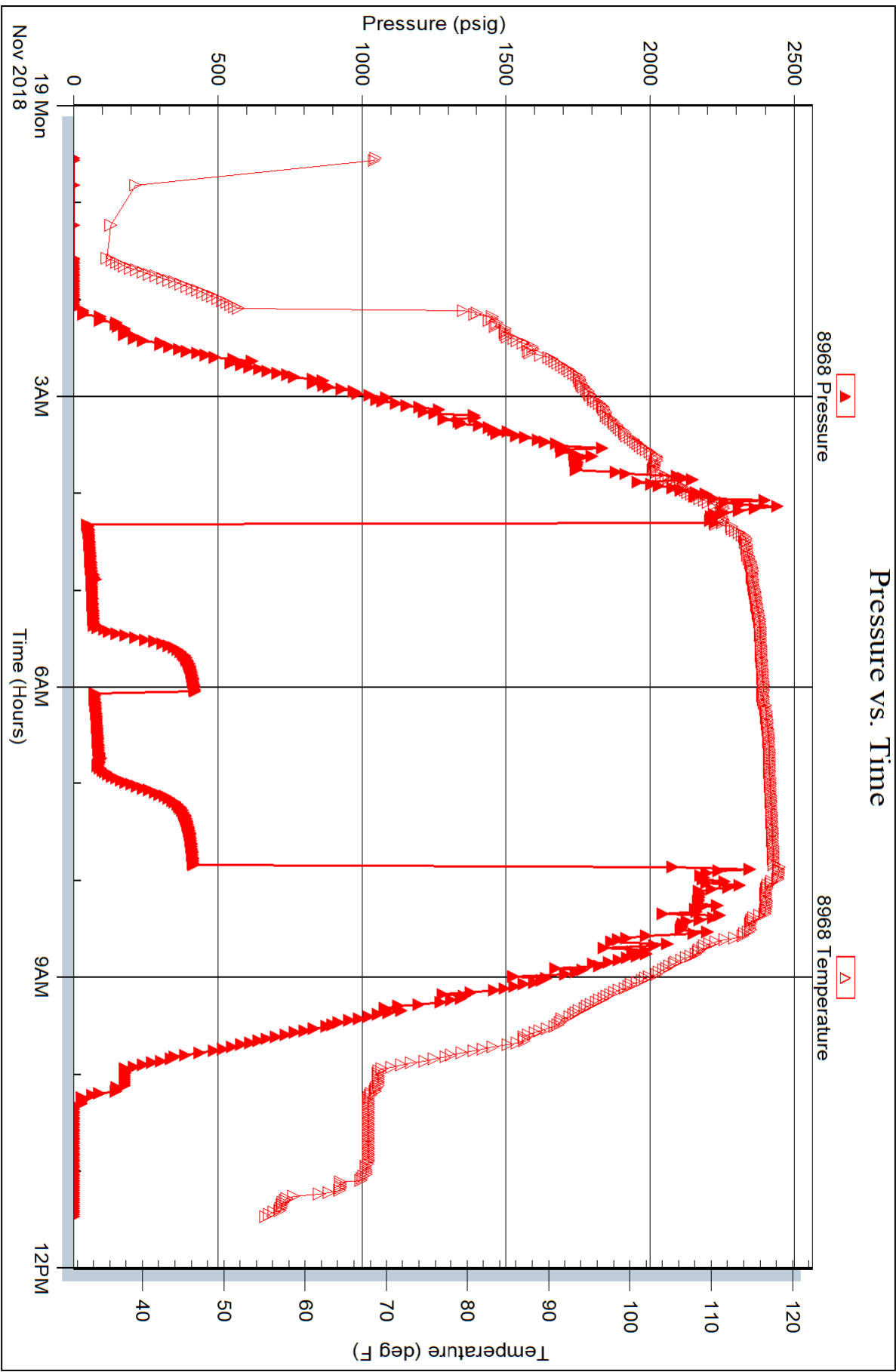


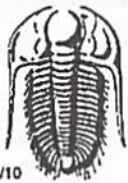
Serial #: 8968

Outside Hartman Oil

Garden City #B-6

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64284

4/10

Well Name & No. Garden City R-6 Test No. 1 2903 Date 11-17-18
 Company Hartman Oil Elevation ~~2592~~ KB ~~2703~~ 2892 GL
 Address 10500 E Berkeley SQ Pkwy STE 100 Wichita KS 67206
 Co. Rep / Geo. Chris Peters Rig H 24
 Location: Sec. 8 Twp 22S Rge. 33W Co. Finnery State KS

Interval Tested 4205-4230 Zone Tested L
 Anchor Length 25 Drill Pipe Run 3901 Mud Wt. 9.1
 Top Packer Depth 4200 Drill Collars Run 300 Vis 45
 Bottom Packer Depth 4205 Wt. Pipe Run 4 WL 8.0
 Total Depth 4230 Chlorides 3400 ppm System LCM 4

Blow Description IF: Built to 5" Blow
IS: No Return Blow
FF: Built to 3 1/2" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>MUD with oil spots</u>			<u>100</u>	
<u>120</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	

Rec Total 300 BHT 110 Gravity ✓ API RW 1401 @ 73.4 F Chlorides 17000 ppm

(A) Initial Hydrostatic 2061 Test 1150 T-On Location 14:30
 (B) First Initial Flow 20 Jars 250 T-Started 17:50
 (C) First Final Flow 107 Safety Joint 75 T-Open 22:10
 (D) Initial Shut-In 838 Circ Sub NC T-Pulled 01:40
 (E) Second Initial Flow 109 Hourly Standby _____ T-Out 05:37
 (F) Second Final Flow 156 Mileage 46 RT 46 Comments EM Tool
 (G) Final Shut-In 795 Sampler _____ 350
 (H) Final Hydrostatic 1975 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 150
 Sub Total 1671

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Copies _____
 Final Shut-In 160 Sub Total 350
 Total 2021
 MP/DST Disc't _____

Approved By _____ Our Representative Mike Roberts

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. 64285

Well Name & No. Garden City B-6 Test No. 2 Date 11-19-18
 Company Hartman Oil Elevation 2903 KB 2892 GL
 Address 10500 E Berkeley Sq Pkwy STE 100 Wichita KS 67206
 Co. Rep / Geo. Chris Peters Rig H24
 Location: Sec. 8 Twp 22S Rge. 33W Co. Finney State KS

Interval Tested 4607-4665 Zone Tested Morrow
 Anchor Length 58 Drill Pipe Run 4313 Mud Wt. ~~9.3~~ 9.3
 Top Packer Depth 4602 Drill Collars Run 300 Vis 62
 Bottom Packer Depth 4607 Wt. Pipe Run Ø WL 10.4
 Total Depth 4665 Chlorides ~~2900~~ 2900 ppm System LCM 6
 Blow Description IF: Built to 3/4 Died to 1/2"
IS: No Return Blow
FF: Built to 1/4"
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>10cm</u>	<u>3</u>		<u>97</u>	
<u>60</u>	<u>gchom</u>	<u>3</u>	<u>50</u>	<u>92</u>	

Rec Total 120 BHT 119 Gravity — API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 2374 Test 1150 T-On Location 21:15
 (B) First Initial Flow 48 Jars 250 T-Started 00:32
 (C) First Final Flow 72 Safety Joint 75 T-Open 04:20
 (D) Initial Shut-In 421 Circ Sub NC T-Pulled 07:50
 (E) Second Initial Flow 75 Hourly Standby Rig Broke Down 5.25h 420 P-Out 11:29
 (F) Second Final Flow 85 Mileage 46 RT 46 Comments Rig Broke Down
 (G) Final Shut-In 416 Sampler _____
 (H) Final Hydrostatic 2382 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 125
 Total 2466
 MP/DST Disc't _____
 Sub Total 2341

Approved By Chris Peters Our Representative Mike Roberts

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