



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1163197
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: _____



1163197

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> _____
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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	Gano Unit 1-36
Doc ID	1163197

All Electric Logs Run

Microlog
Spectral Density Neutron
Compensated REsistivity
Borehole Compensated Sonic



DRILL STEM TEST REPORT

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

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

ATTN: Kitt Noah

Gano Unit #1-36

36-9s-24w Graham, KS

Start Date: 2013.09.29 @ 11:11:00

End Date: 2013.09.29 @ 20:57:30

Job Ticket #: 54443 DST #: 1

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

Printed: 2013.10.03 @ 11:11:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.
 10500 E Berkeley Sq. Pkw y
 Ste. 100
 Wichita, KS 67206
 ATTN: Kitt Noah

36-9s-24w Graham, KS

Gano Unit #1-36

Job Ticket: 54443

DST#: 1

Test Start: 2013.09.29 @ 11:11:00

GENERAL INFORMATION:

Formation: **LKC I-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:08:00
 Tester: Brannan L
 Time Test Ended: 20:57:30
 Unit No: 59
 Interval: **3957.00 ft (KB) To 3992.00 ft (KB) (TVD)**
 Reference Elevations: 2469.00 ft (KB)
 Total Depth: 3992.00 ft (KB) (TVD)
 2458.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 6753

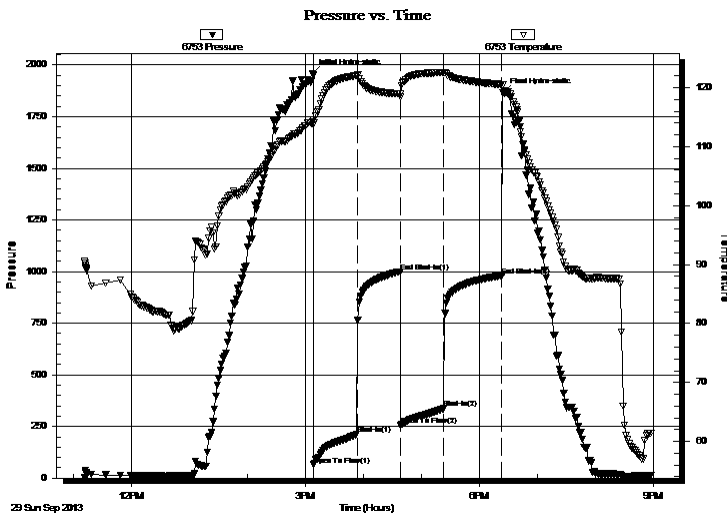
Inside

Press @ Run Depth: 338.08 psig @ 3958.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.29 End Date: 2013.09.29 Last Calib.: 2013.09.29
 Start Time: 11:11:05 End Time: 20:57:30 Time On Btm: 2013.09.29 @ 15:07:00
 Time Off Btm: 2013.09.29 @ 18:24:00

TEST COMMENT: 45- IF- BOB 12 mins
 45- IS- Slow ly built to 3/4"
 45- FF- BOB 15 mins
 60- FSI- Surface blow throughout

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.86	114.28	Initial Hydro-static
1	64.65	113.68	Open To Flow (1)
46	212.82	122.04	Shut-In(1)
91	999.41	118.90	End Shut-In(1)
91	257.09	118.36	Open To Flow (2)
136	338.08	122.54	Shut-In(2)
196	978.63	120.51	End Shut-In(2)
197	1866.18	120.44	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
695.00	MW, 10%M 90%W	7.42
5.00	Free Oil, 100%O	0.07
0.00	20' 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. 100
Wichita, KS 67206
ATTN: Kitt Noah

36-9s-24w Graham, KS
Gano Unit #1-36
Job Ticket: 54443 **DST#: 1**
Test Start: 2013.09.29 @ 11:11:00

Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.75 inches	Volume: 50.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3957.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 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			3930.00	
Shut In Tool	5.00			3935.00	
Hydraulic tool	5.00			3940.00	
Jars	5.00			3945.00	
Safety Joint	2.00			3947.00	
Packer	5.00			3952.00	28.00 Bottom Of Top Packer
Packer	5.00			3957.00	
Stubb	1.00			3958.00	
Recorder	0.00	6753	Inside	3958.00	
Recorder	0.00	8319	Outside	3958.00	
Perforations	31.00			3989.00	
Bullnose	3.00			3992.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.
10500 E Berkeley Sq. Pkw y
Ste. 100
Wichita, KS 67206
ATTN: Kitt Noah

36-9s-24w Graham, KS
Gano Unit #1-36
Job Ticket: 54443 **DST#: 1**
Test Start: 2013.09.29 @ 11:11:00

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:	6000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

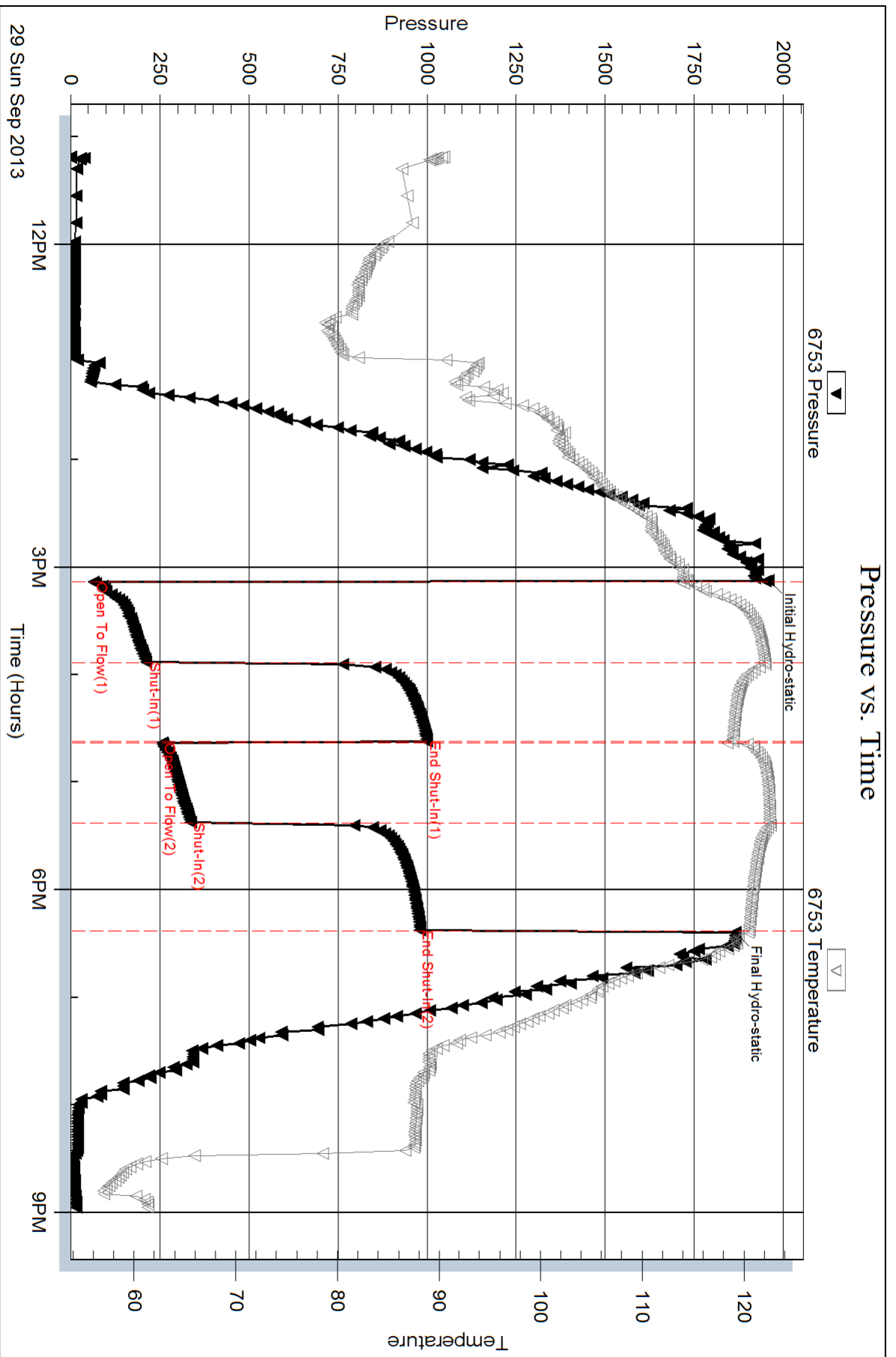
Length ft	Description	Volume bbl
695.00	MW, 10%M 90%W	7.422
5.00	Free Oil, 100%O	0.068
0.00	20' GIP	0.000

Total Length: 700.00 ft Total Volume: 7.490 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

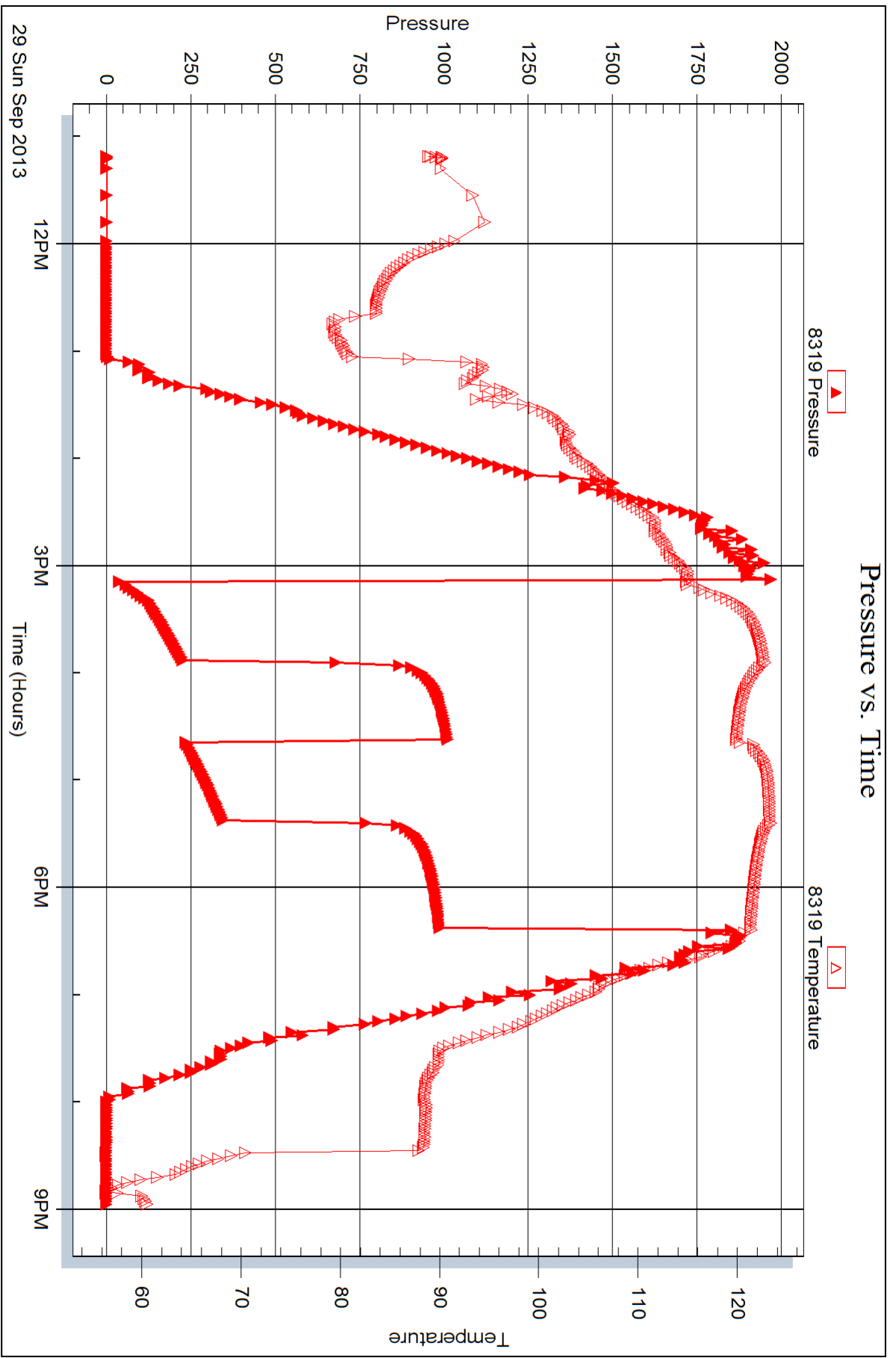


Serial #: 8319

Outside Hartman Oil Co., Inc.

Gano Unit #1-36

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54443

Printed: 2013.10.03 @ 11:11:54



DRILL STEM TEST REPORT

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

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

ATTN: Kitt Noah

Gano Unit #1-36

36-9s-24w Graham, KS

Start Date: 2013.09.30 @ 06:52:00

End Date: 2013.09.30 @ 14:52:00

Job Ticket #: 54444 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.03 @ 11:11:27

Hartman Oil Co., Inc.
36-9s-24w Graham, KS
Gano Unit #1-36
DST # 2
LKC "K"
2013.09.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.
10500 E Berkeley Sq. Pkw y
Ste. 100
Wichita, KS 67206
ATTN: Kitt Noah

36-9s-24w Graham, KS

Gano Unit #1-36

Job Ticket: 54444

DST#: 2

Test Start: 2013.09.30 @ 06:52:00

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:28:00
 Time Test Ended: 14:52:00
 Interval: **3994.00 ft (KB) To 4016.00 ft (KB) (TVD)**
 Total Depth: 4016.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan L/Brett Dick
 Unit No: 59
 Reference Elevations: 2469.00 ft (KB)
 2458.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6753

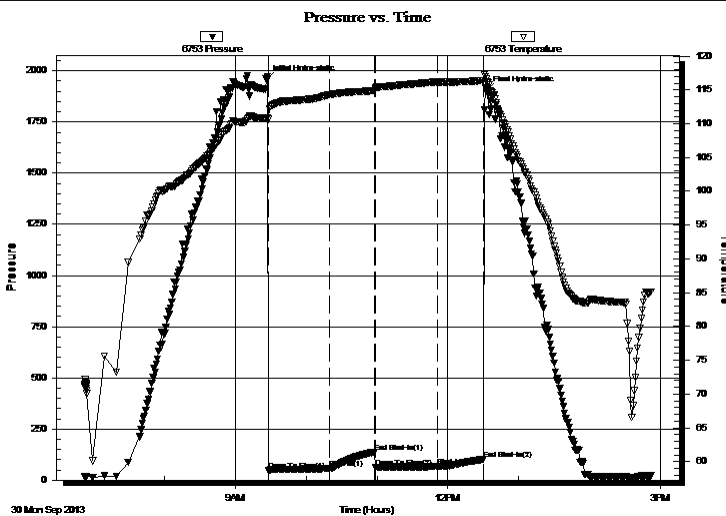
Inside

Press @ Run Depth: 66.12 psig @ 3995.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.30 End Date: 2013.09.30 Last Calib.: 2013.09.30
 Start Time: 06:52:05 End Time: 14:51:59 Time On Btm: 2013.09.30 @ 09:26:30
 Time Off Btm: 2013.09.30 @ 12:32:30

TEST COMMENT: 45- IF- BOB 42 mins
 45- ISI- No blow
 45 FF-4 1/2" blow
 45 FSI- No blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.27	110.87	Initial Hydro-static
2	46.64	110.69	Open To Flow (1)
53	57.65	114.30	Shut-In(1)
91	136.93	114.88	End Shut-In(1)
92	63.16	115.14	Open To Flow (2)
145	66.12	116.17	Shut-In(2)
184	101.39	116.37	End Shut-In(2)
186	1904.39	116.60	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
65.00	VSGOCM 5%G 40%O 55%M	0.32
10.00	VSGO 5%G 95%O	0.05
0.00	285' GIP	0.00

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. 100
Wichita, KS 67206
ATTN: Kitt Noah

36-9s-24w Graham, KS

Gano Unit #1-36

Job Ticket: 54444

DST#: 2

Test Start: 2013.09.30 @ 06:52:00

Tool Information

Drill Pipe:	Length: 3734.00 ft	Diameter: 3.75 inches	Volume: 51.01 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	61000.00 lb
Drill Pipe Above KB:	5.00 ft			Final	61000.00 lb
Depth to Top Packer:	3994.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3967.00	
Shut In Tool	5.00			3972.00	
Hydraulic tool	5.00			3977.00	
Jars	5.00			3982.00	
Safety Joint	2.00			3984.00	
Packer	5.00			3989.00	28.00 Bottom Of Top Packer
Packer	5.00			3994.00	
Stubb	1.00			3995.00	
Recorder	0.00	6753	Inside	3995.00	
Recorder	0.00	8319	Outside	3995.00	
Perforations	18.00			4013.00	
Bullnose	3.00			4016.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

36-9s-24w Graham, KS

10500 E Berkeley Sq. Pkwy
Ste. 100
Wichita, KS 67206
ATTN: Kitt Noah

Gano Unit #1-36

Job Ticket: 54444

DST#: 2

Test Start: 2013.09.30 @ 06:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	VSGOCM 5%G 40%O 55%M	0.320
10.00	VSGO 5%G 95%O	0.049
0.00	285' GIP	0.000

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

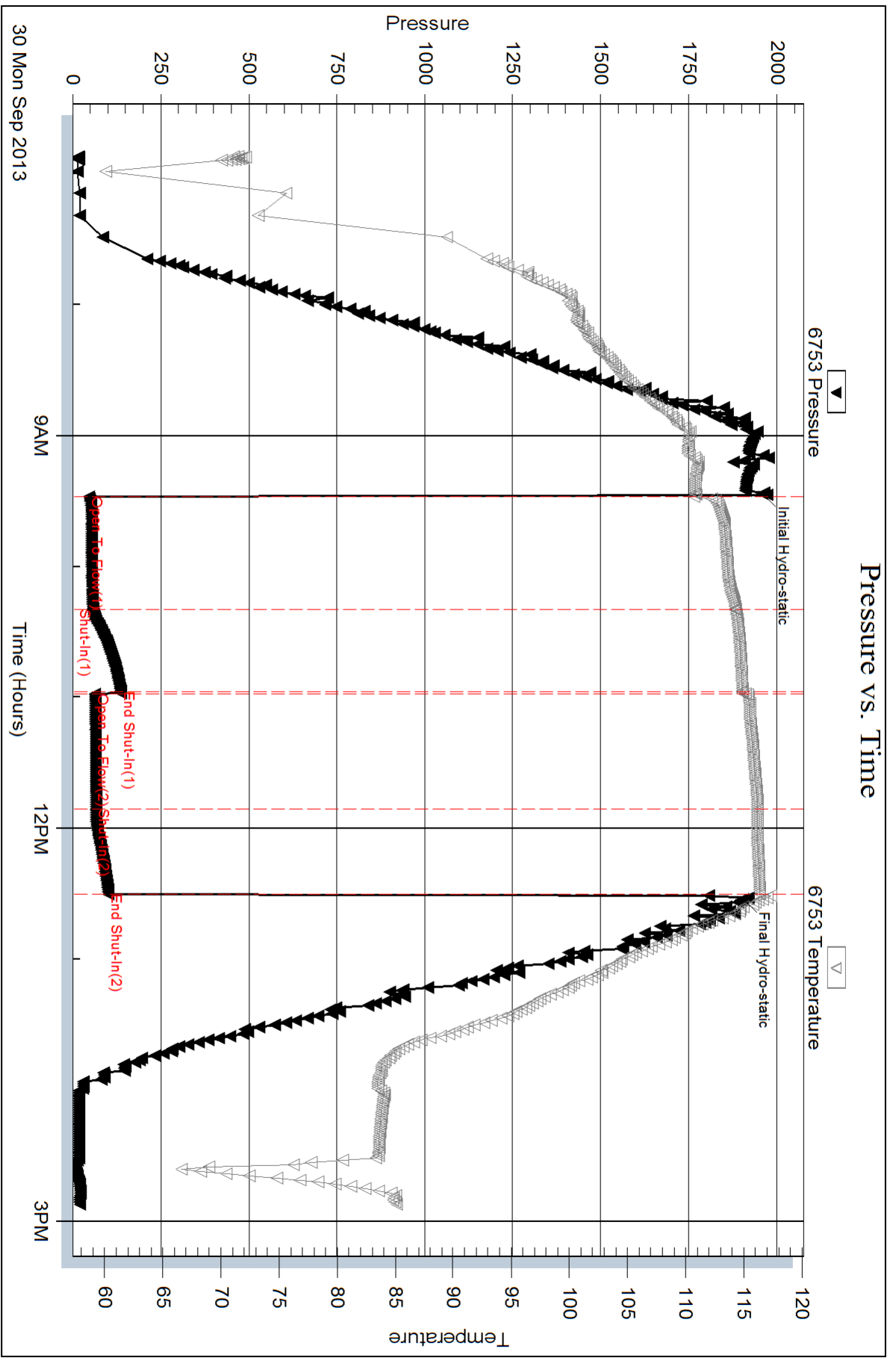
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

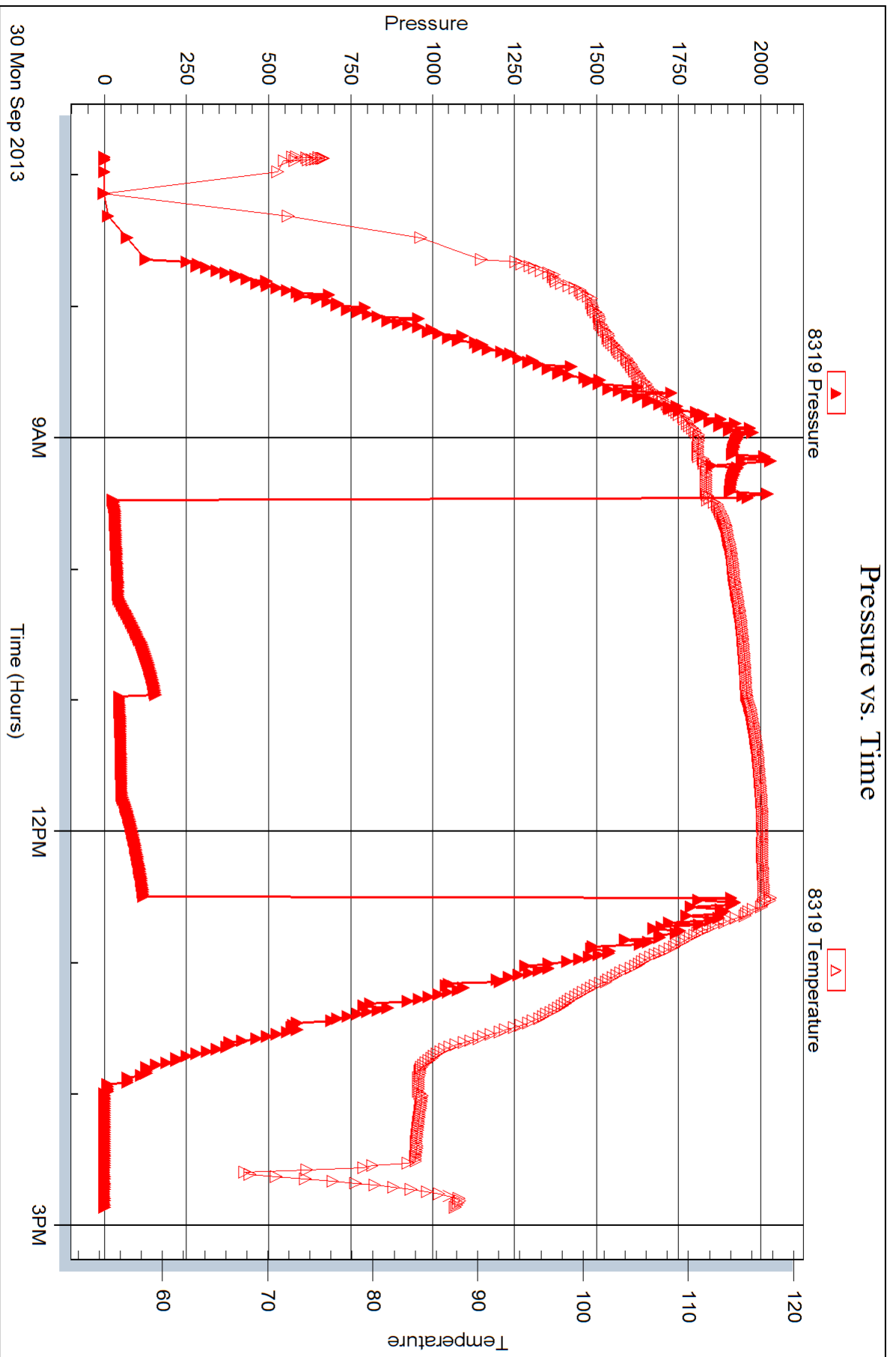


Serial #: 8319

Outside Hartman Oil Co., Inc.

Gano Unit #1-36

DST Test Number: 2





DRILL STEM TEST REPORT

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

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

ATTN: Kitt Noah

Gano Unit #1-36

36-9s-24w Graham, KS

Start Date: 2013.10.01 @ 07:15:00

End Date: 2013.10.01 @ 16:15:00

Job Ticket #: 54445 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.03 @ 11:10:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.
 10500 E Berkeley Sq. Pkw y
 Ste. 100
 Wichita, KS 67206
 ATTN: Kitt Noah

36-9s-24w Graham, KS

Gano Unit #1-36

Job Ticket: 54445 **DST#: 3**

Test Start: 2013.10.01 @ 07:15:00

GENERAL INFORMATION:

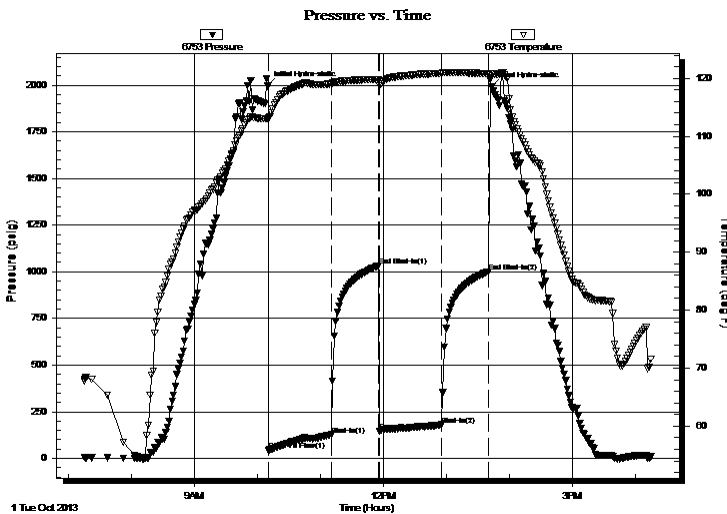
Formation: **KC "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:10:30
 Time Test Ended: 16:15:00
 Interval: **3960.00 ft (KB) To 3970.00 ft (KB) (TVD)**
 Total Depth: 4097.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2469.00 ft (KB)
 2458.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 179.45 psig @ 3966.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.01 End Date: 2013.10.01 Last Calib.: 2013.10.01
 Start Time: 07:15:05 End Time: 16:15:00 Time On Btm: 2013.10.01 @ 10:09:00
 Time Off Btm: 2013.10.01 @ 13:43:00

TEST COMMENT: IF-10" blow
 IS- No blow
 FF-7 1/2" blow
 FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.46	113.04	Initial Hydro-static
2	41.87	112.91	Open To Flow (1)
61	126.24	119.02	Shut-In(1)
106	1031.09	119.70	End Shut-In(1)
108	145.60	118.72	Open To Flow (2)
166	179.45	120.85	Shut-In(2)
211	999.40	120.78	End Shut-In(2)
214	1991.76	120.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
355.00	OS VSMCW 90%W 10%M	2.78

* 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. 100
Wichita, KS 67206
ATTN: Kitt Noah

36-9s-24w Graham, KS

Gano Unit #1-36

Job Ticket: 54445

DST#: 3

Test Start: 2013.10.01 @ 07:15:00

Tool Information

Drill Pipe:	Length: 3701.00 ft	Diameter: 3.75 inches	Volume: 50.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3960.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	3970.00 ft			
Interval between Packers:	10.00 ft			
Tool Length:	168.00 ft			
Number of Packers:	3	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			3933.00	
Shut In Tool	5.00			3938.00	
Hydraulic tool	5.00			3943.00	
Jars	5.00			3948.00	
Safety Joint	3.00			3951.00	
Packer	4.00			3955.00	28.00 Bottom Of Top Packer
Packer	5.00			3960.00	
Stubb	1.00			3961.00	
Perforations	5.00			3966.00	
Recorder	0.00	8166	Inside	3966.00	
Recorder	0.00	6753	Outside	3966.00	
Blank Off Sub	4.00			3970.00	10.00 Tool Interval
Packer	4.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.00	8319	Below	3975.00	
perforations	2.00			3977.00	
Change Over Sub	1.00			3978.00	
Blank Spacing	94.00			4072.00	
Change Over Sub	1.00			4073.00	
Perforations	24.00			4097.00	
Bullnose	3.00			4100.00	130.00 Bottom Packers & Anchor

Total Tool Length: 168.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

36-9s-24w Graham, KS

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

Gano Unit #1-36

Job Ticket: 54445

DST#: 3

Test Start: 2013.10.01 @ 07:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 5.78 in³

Resistivity: ohm.m

Salinity: 2900.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 85000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
355.00	OS VSMCW 90%W 10%M	2.777

Total Length: 355.00 ft Total Volume: 2.777 bbl

Num Fluid Samples: 0

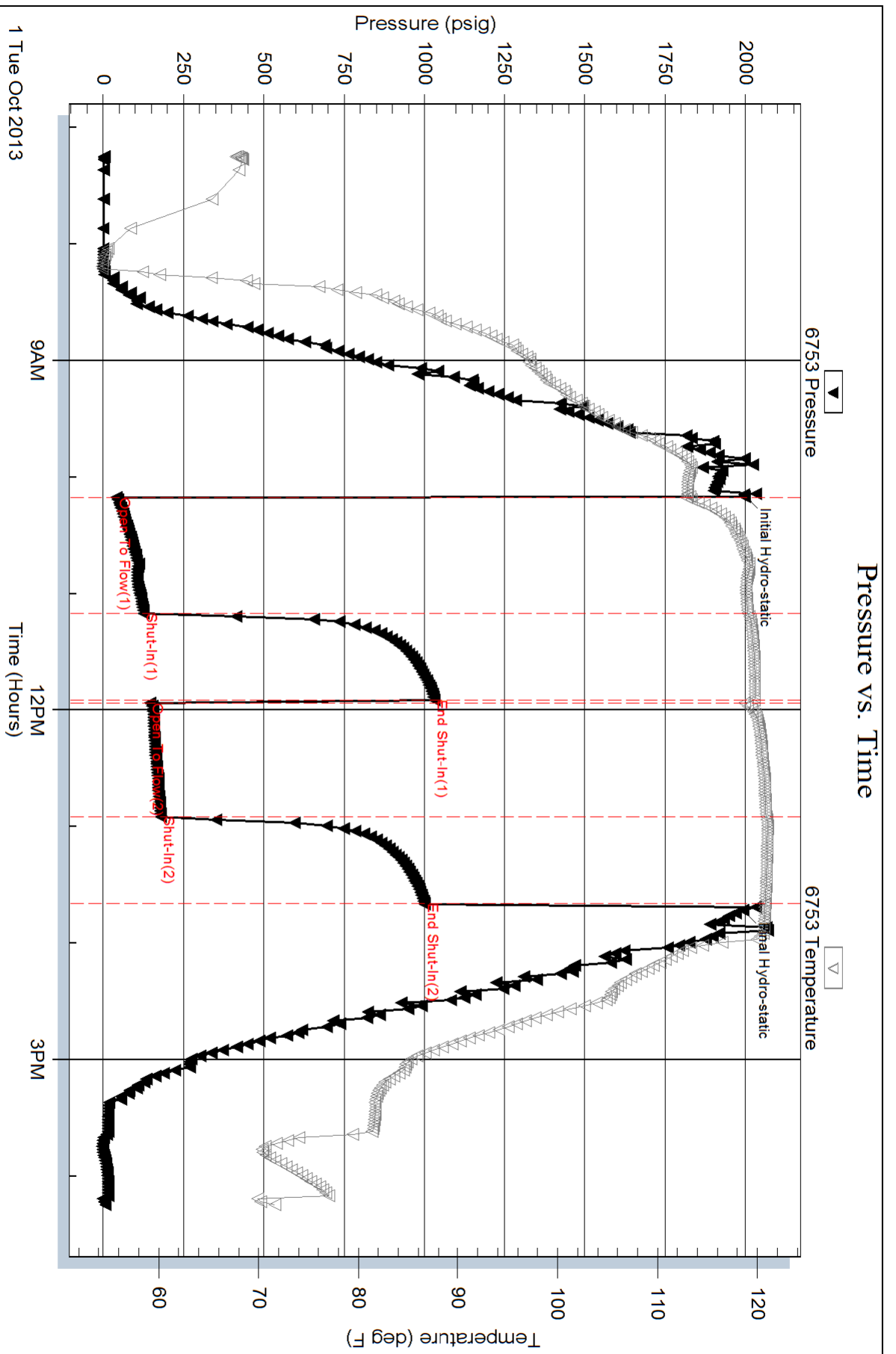
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



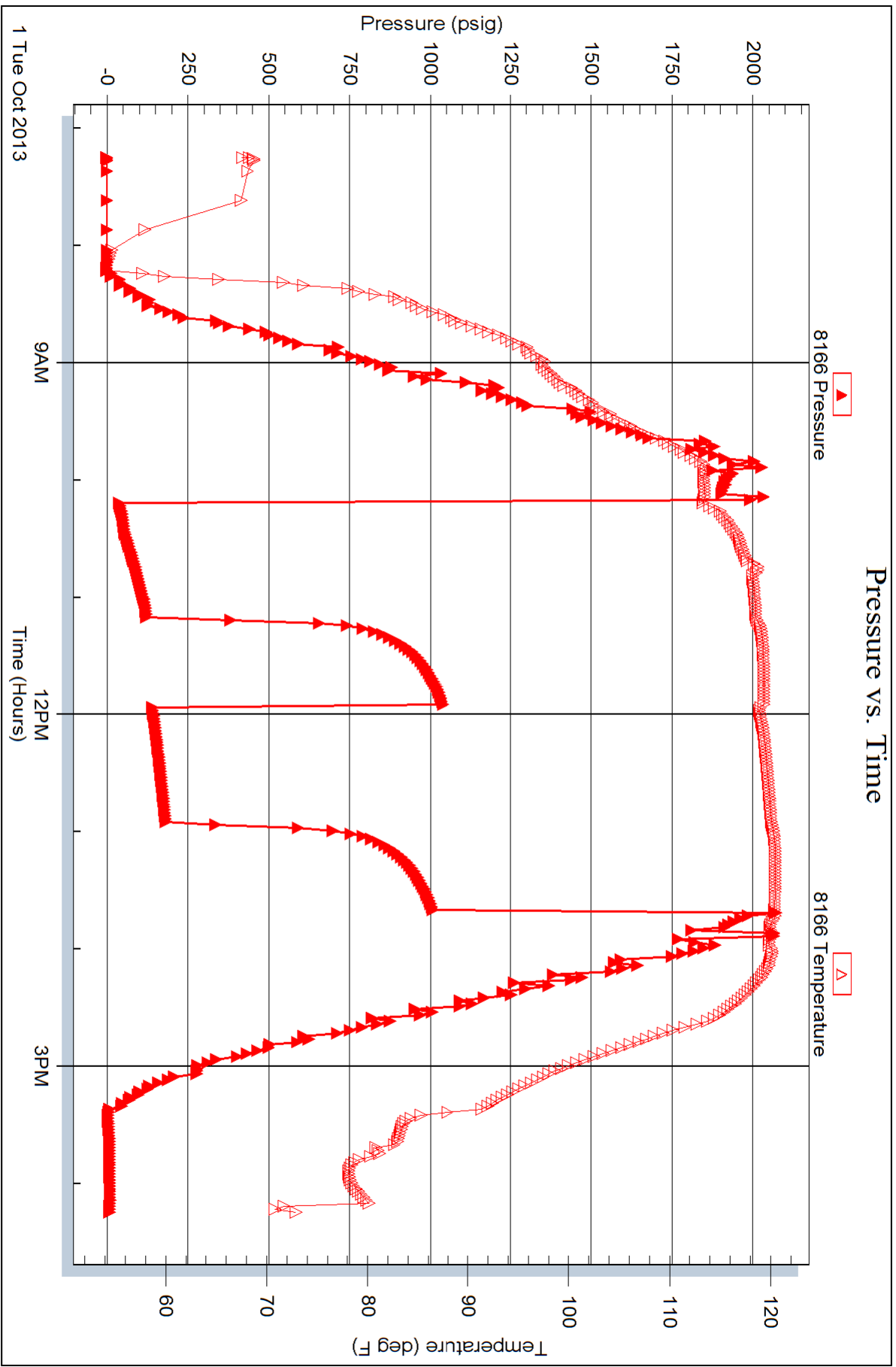
Serial #: 8166

Inside

Hartman Oil Co., Inc.

Gano Unit #1-36

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54445

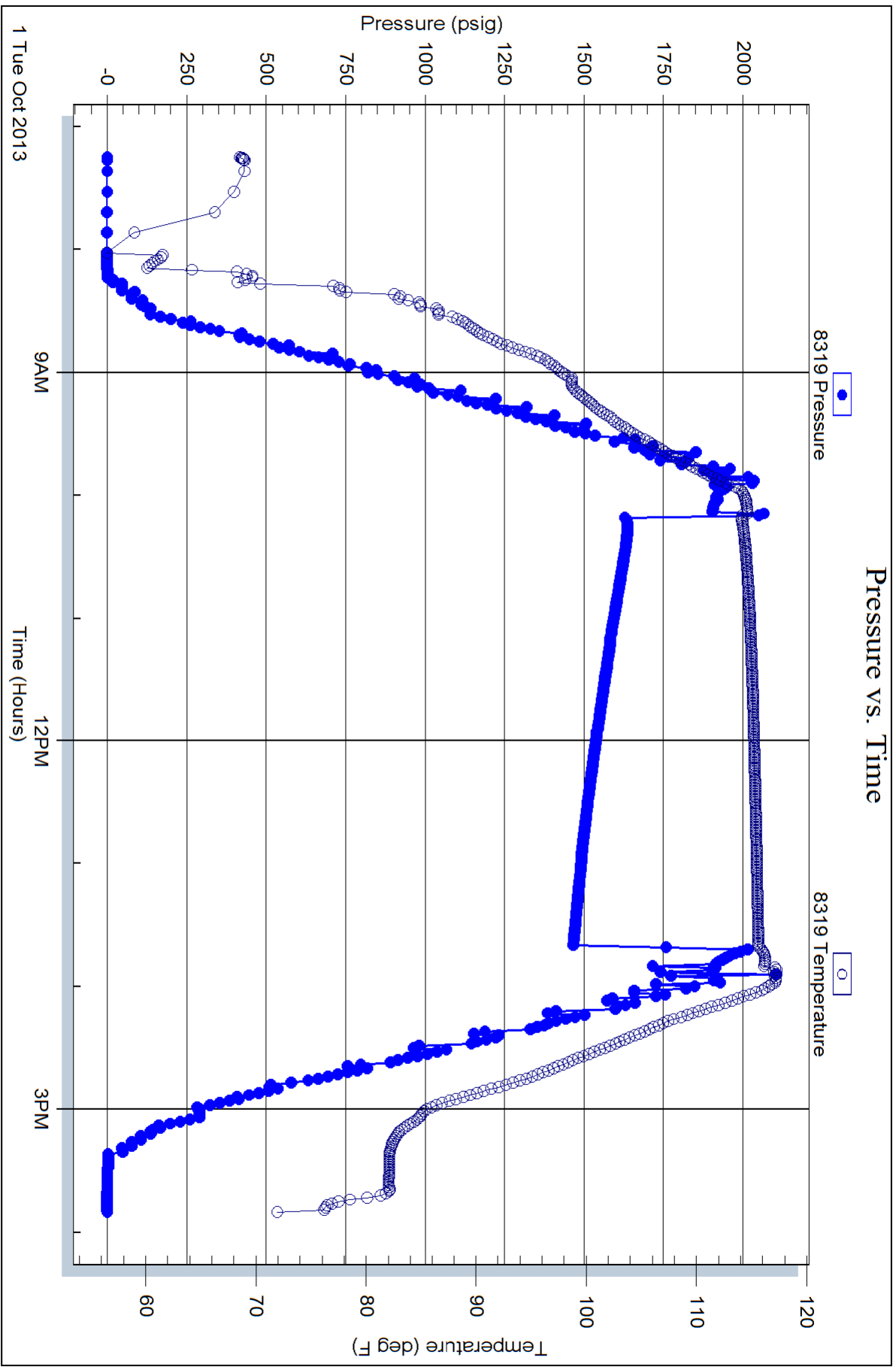
Printed: 2013.10.03 @ 11:11:00

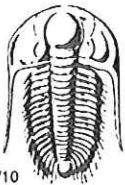
Serial #: 8319

Below (Stratfield) Oil Co., Inc.

Gano Unit #1-36

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54443

Well Name & No. Gano Unit #1-36 Test No. 1 Date 9/29/13
 Company Hertman Oil Coy Inc. Elevation 2469 KB 2458 GL
 Address 10500 E Berkeley Sq. Pkwy. Ste. 100 Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 #2
 Location: Sec. 36 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 3957-3992 Zone Tested LK6 "I+J"
 Anchor Length 35' Drill Pipe Run 3703 Mud Wt. 9.1
 Top Packer Depth 3952 Drill Collars Run 237 Vis 60
 Bottom Packer Depth 3957 Wt. Pipe Run --- WL 5.8
 Total Depth 3992 Chlorides 2900 ppm System LCM 2#

Blow Description IF - DOB 12 mins
ISI - Slowly Built to 3/4"
FF - BOB 15 mins
FSI - Surface Blow throughout

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free O</u>		<u>100</u>		
<u>695</u>	<u>MW</u>			<u>90</u>	<u>12</u>
	<u>20' ATP</u>	<u>100</u>			

Rec Total 700' BHT 121° Gravity --- API RW .12 @ 63 °F Chlorides 6000 ppm

(A) Initial Hydrostatic <u>1960</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1000</u>
(B) First Initial Flow <u>65</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1111</u>
(C) First Final Flow <u>213</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1508</u>
(D) Initial Shut-In <u>999</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>1823</u>
(E) Second Initial Flow <u>257</u>	<input checked="" type="checkbox"/> Hourly Standby <u>.75h 75</u>	T-Out <u>2058</u>
(F) Second Final Flow <u>338</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT</u> 179.80	Comments <u>---</u>
(G) Final Shut-In <u>979</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>1866</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>

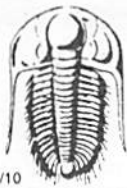
Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Extra Packer ---
 Extra Recorder ---
 Day Standby ---
 Accessibility 150
 Sub Total 1879.80

Ruined Packer ---
 Extra Copies ---
 Sub Total 0
 Total 1879.80
 MP/DST Disc't ---

Approved By _____ Our Representative Brannon L.

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. 54444

Well Name & No. Gano Unit #1-36 Test No. 2 Date 9/30/13
 Company Hartman Oil Co, Inc. Elevation 2469 KB 2458 GL
 Address 10500 E Berkeley Sq Pkwy, Ste. 100 Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 #2
 Location: Sec. 36 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 3994-4016 Zone Tested LKC "K"
 Anchor Length 22' Drill Pipe Run 3734 Mud Wt. 9.2
 Top Packer Depth 3989 Drill Collars Run 237 Vis 65
 Bottom Packer Depth 3994 Wt. Pipe Run WL 58
 Total Depth 4016 Chlorides 3000 ppm System LCM 2#

Blow Description IF- BOB 42 mins
ISI- No blow
FF- 48 in blow
FSI- No blow

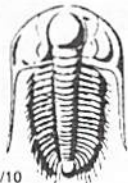
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>USGO</u>	<u>5</u>	<u>95</u>		
<u>65</u>	<u>USGOCM</u>	<u>5</u>	<u>40</u>		<u>55</u>
	<u>285 ft GEP</u>				

Rec Total 75 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>4958</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0610</u>
(B) First Initial Flow <u>47</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0642</u>
(C) First Final Flow <u>58</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0918</u>
(D) Initial Shut-In <u>137</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1218</u>
(E) Second Initial Flow <u>63</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>14145</u>
(F) Second Final Flow <u>66</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT</u> 179.80	Comments _____
(G) Final Shut-In <u>101</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>4904</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</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>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1904.80</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Accessibility <u>No stairs</u> 150	MP/DST Disc't _____
	Sub Total <u>1904.80</u>	

Approved By _____ Our Representative Brannan Lonsdale

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. **54445**

Well Name & No. Gano Unit #1-36 Test No. 3 Date 10/1/13
 Company Hartman Oil Co Inc Elevation 2469 KB 2458 GL
 Address 10500 E. Berkeley Sq Pkwy Ste 100 Wichita, KS 67206
 Co. Rep / Geo. K. L. Noah Rig H2 #2
 Location: Sec. 36 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 3960 - 3970 Zone Tested KC "I"
 Anchor Length 10 Drill Pipe Run 3701 Mud Wt. _____
 Top Packer Depth 3955, 3960 Drill Collars Run 237 Vis _____
 Bottom Packer Depth 3970 Wt. Pipe Run — WL _____
 Total Depth 4097 Chlorides _____ ppm System LCM _____

Blow Description FF - 10in blow
ISI - No blow
FF - 7 1/2in blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>355</u>	<u>OS USMCW</u>		<u>90</u>	<u>10</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 355 BHT 121 Gravity _____ API RW .1 @ 65 °F Chlorides 85,000 ppm

(A) Initial Hydrostatic <u>1,995</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>6:45</u>
(B) First Initial Flow <u>42</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>7:15</u>
(C) First Final Flow <u>126</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:10</u>
(D) Initial Shut-In <u>1,031</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>13:40</u>
(E) Second Initial Flow <u>146</u>	<input checked="" type="checkbox"/> Hourly Standby <u>.5h 50</u>	T-Out <u>16:15</u>
(F) Second Final Flow <u>179</u>	<input checked="" type="checkbox"/> Mileage <u>116.87</u> 179.80	Comments _____
(G) Final Shut-In <u>999</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1,992</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>60</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>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2454.80</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Accessibility <u>No Stairs</u> 150	MP/DST Disc't _____
	Sub Total <u>2454.80</u>	

Approved By _____ Our Representative Paul Deed

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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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 17, 2013

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

Re: ACO1
API 15-065-23953-00-00
Gano Unit 1-36
SW/4 Sec.36-09S-24W
Graham 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



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 138985
Invoice Date: Oct 2, 2013
Page: 1

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Hart	54796	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Russell	Oct 2, 2013	11/1/13

Quantity	Item	Description	Unit Price	Amount
		Gano Trust Unit #1-36 81542		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
7.57	CEMENT MATERIALS	Gel	23.40	177.14
50.00	CEMENT MATERIALS	Flo Seal	2.97	148.50
235.95	CEMENT SERVICE	Cubic Feet	2.48	585.16
483.31	CEMENT SERVICE	Ton Mileage	2.60	1,256.61
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
49.00	CEMENT SERVICE	Pump Truck Mileage	7.70	377.30
49.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	215.60
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	64.80	64.80
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	EQUIPMENT OPERATOR	Woody O'Neil		
1.00	OPERATOR ASSISTANT	Danny Sinner		

DAA

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

\$ 1,709.27

ONLY IF PAID ON OR BEFORE
Oct 27, 2013

Subtotal	8,494.30
Sales Tax	628.58
Total Invoice Amount	9,122.88
Payment/Credit Applied	
TOTAL	9,122.88

A. T. Mubet
10-14-13

ALLIED OIL & GAS SERVICES, LLC 054796

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE <u>10-2-13</u>	SEC <u>36</u>	TWP. <u>9</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 AM</u>	JOB FINISH <u>3:30 AM</u>
<u>Gano Trust</u> LEASE Unit	WELL# <u>1-36</u>	LOCATION <u>Waberny 12N 3 1/2 W Ninto</u>			COUNTY <u>Graham</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR H2 #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4100

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 16.6 DEPTH 2110

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 220 60/40 490 gel 1/4 #910

COMMON	<u>132</u>	@ <u>17.90</u>	<u>2362.80</u>
POZMIX	<u>88</u>	@ <u>9.35</u>	<u>822.80</u>
GEL	<u>7.57</u>	@ <u>23.40</u>	<u>177.14</u>
CHLORIDE		@	
ASC		@	
<u>510</u>	<u>50#</u>	@ <u>2.97</u>	<u>148.50</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>235.95</u>	@ <u>2.48</u>	<u>585.16</u>
MILEAGE	<u>483.3115</u>	@ <u>2.60</u>	<u>1256.61</u>
			TOTAL <u>5353.06</u>

EQUIPMENT

PUMP TRUCK CEMENTER Robert V

417 HELPER Woody O

BULK TRUCK

473 DRIVER Danny S

BULK TRUCK

DRIVER

REMARKS:

p1 2.5 @ 2110

p2 100 @ 985

p3 40 @ 345

p4 10 @ 40

30 sk in Rathole

1.5 sk in Mouschale

SERVICE

DEPTH OF JOB	<u>2110</u>
PUMP TRUCK CHARGE	<u>2483.59</u>
EXTRA FOOTAGE	@
MILEAGE <u>49</u> <u>HVMI</u>	@ <u>7.70</u> <u>377.30</u>
MANIFOLD	@
<u>49</u> <u>LVM I</u>	@ <u>4.40</u> <u>215.60</u>
	@
TOTAL <u>3016.49</u>	

CHARGE TO: Hartman Oil

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

<u>8 7/8</u> <u>Wooden plug</u>	@ <u>64.80</u>	<u>64.80</u>
	@	
	@	
	@	
	@	
TOTAL <u>64.80</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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME STEVEN CRAIG

SIGNATURE Steven Craig

SALES TAX (if Any)

TOTAL CHARGES 8494.30

DISCOUNT 1709.27 IF PAID IN 30 DAYS

net \$ 6785.03