



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1147198
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: _____



1147198

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	Wilkinson 3-22
Doc ID	1147198

Tops

Name	Top	Datum
Heebner	3977	-880
Toronto	3992	-895
Lansing	4021	-924
Stark	4316	-1219
B/KC	4411	-1314
Marmaton	4464	-1367
Pawnee	4554	-1457
Cherokee	4626	-1529
Mississippi	4846	-1749
RTD	4930	-1833
LTD	4932	-1835



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co**

10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206

ATTN: Kitt Noah

Wilkinson #3-22

22-17s-34w Scott KS

Start Date: 2013.05.27 @ 18:30:30

End Date: 2013.05.28 @ 01:33:15

Job Ticket #: 53236 DST #: 1

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

Printed: 2013.06.05 @ 09:58:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley SQ PKWY Ste 100
 Wichita KS 67206
 ATTN: Kitt Noah

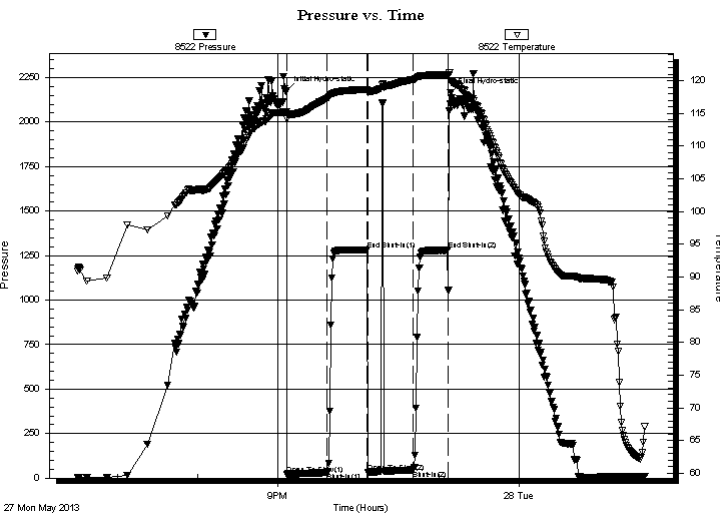
22-17s-34w Scott KS
Wilkinson #3-22
 Job Ticket: 53236 **DST#: 1**
 Test Start: 2013.05.27 @ 18:30:30

GENERAL INFORMATION:

Formation: **Pleasanton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:06:30
 Time Test Ended: 01:33:15
 Interval: **4409.00 ft (KB) To 4432.00 ft (KB) (TVD)**
 Total Depth: 4432.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3097.00 ft (KB)
 3086.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8522 Outside
 Press @ Run Depth: 46.48 psig @ 4410.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.27 End Date: 2013.05.28 Last Calib.: 2013.05.28
 Start Time: 18:30:35 End Time: 01:33:14 Time On Btm: 2013.05.27 @ 21:06:15
 Time Off Btm: 2013.05.27 @ 23:08:45

TEST COMMENT: IF: Weak surface blow - died in 20 min
 IS: No return
 FF: No blow : Flushed tool
 FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.20	115.32	Initial Hydro-static
1	20.53	114.11	Open To Flow (1)
30	31.47	117.26	Shut-In(1)
61	1282.79	118.67	End Shut-In(1)
61	33.94	118.17	Open To Flow (2)
95	46.48	120.17	Shut-In(2)
121	1280.03	120.88	End Shut-In(2)
123	2163.67	119.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MCW 50W-50M (Oil specs)	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co

22-17s-34w Scott KS

10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206

Wilkinson #3-22

Job Ticket: 53236

DST#: 1

ATTN: Kitt Noah

Test Start: 2013.05.27 @ 18:30:30

Tool Information

Drill Pipe:	Length: 4026.00 ft	Diameter: 3.20 inches	Volume: 40.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 41.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4409.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 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			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	2.00			4400.00	
Packer	5.00			4405.00	27.00 Bottom Of Top Packer
Packer	4.00			4409.00	
Stubb	1.00			4410.00	
Recorder	0.00	8677	Inside	4410.00	
Recorder	0.00	8522	Outside	4410.00	
Perforations	19.00			4429.00	
Bullnose	3.00			4432.00	23.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co
10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206
ATTN: Kitt Noah

22-17s-34w Scott KS
Wilkinson #3-22
Job Ticket: 53236 **DST#: 1**
Test Start: 2013.05.27 @ 18:30:30

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: 26000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4900.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MCW 50W-50M (Oil specs)	0.074

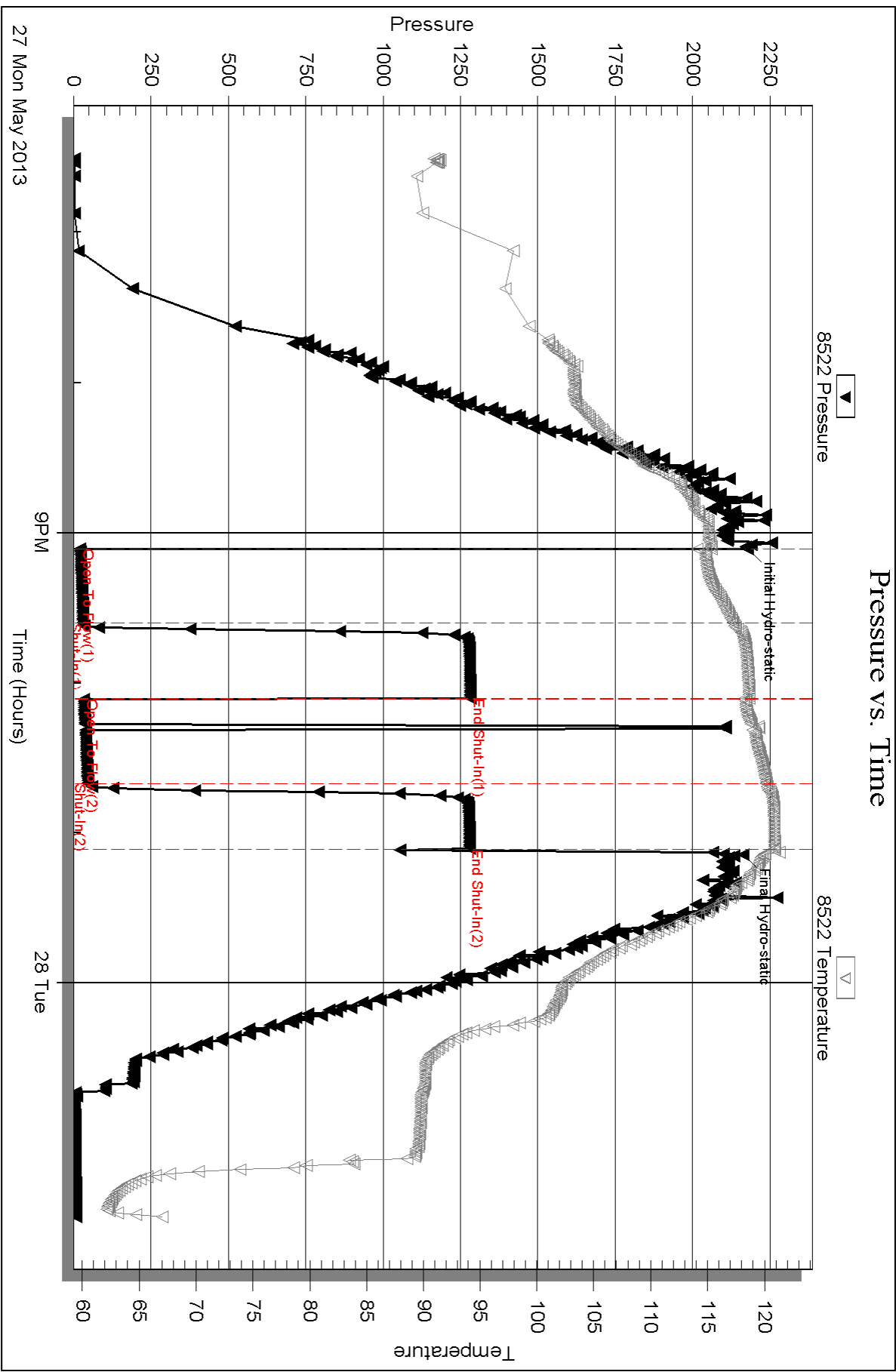
Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW is .307 @ 59.5 F = 26000 ppm

Serial #: 8522

Outside Hartman Oil Co

Wilkinson #3-22

DST Test Number: 1



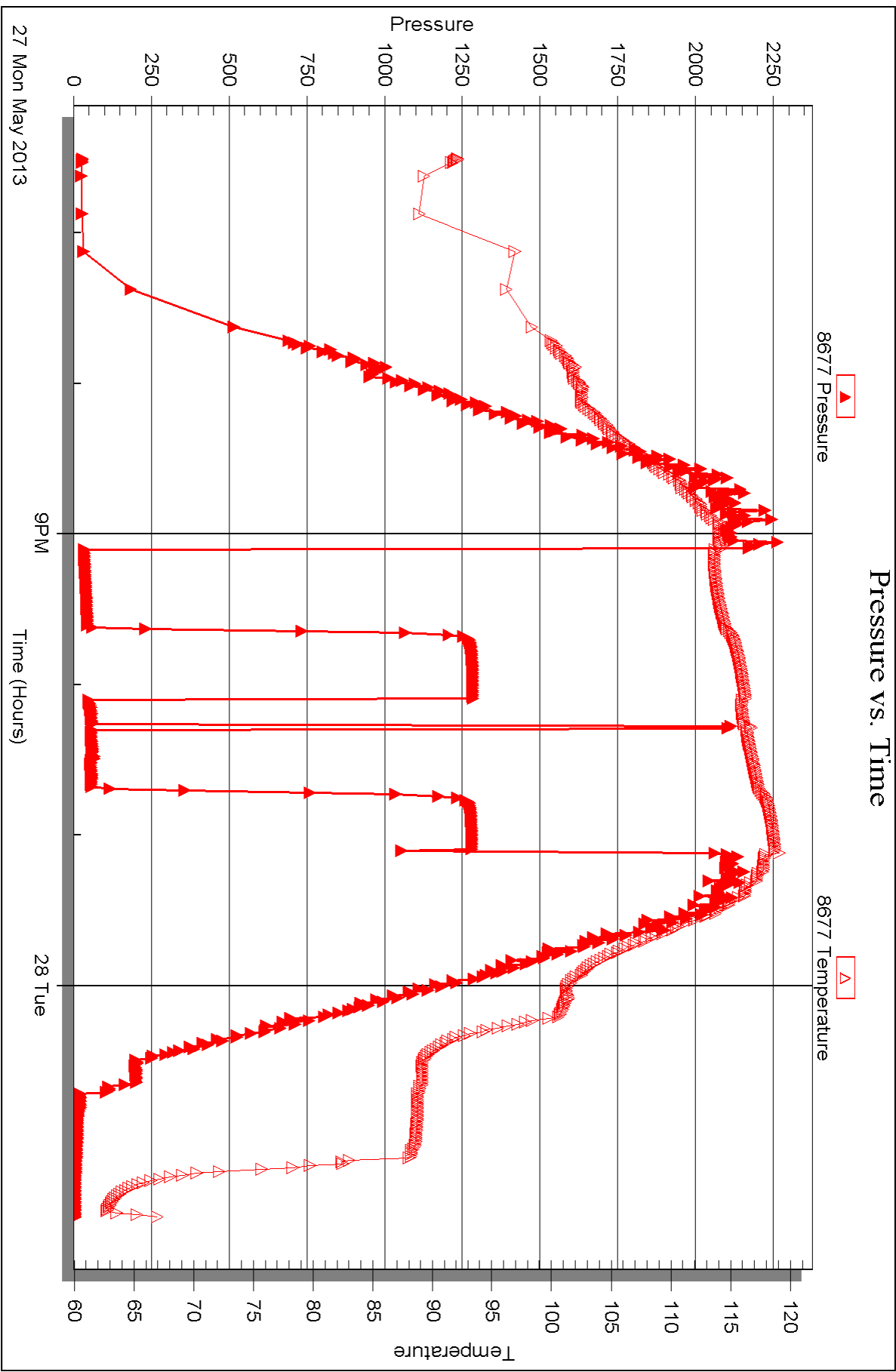
Serial #: 8677

Inside

Hartman Oil Co

Wilkinson #3-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co**

10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206

ATTN: Kitt Noah

Wilkinson #3-22

22-17s-34w Scott KS

Start Date: 2013.05.28 @ 14:17:00

End Date: 2013.05.29 @ 00:03:15

Job Ticket #: 53237 DST #: 2

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

Printed: 2013.06.05 @ 09:57:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley SQ PKWY Ste 100
 Wichita KS 67206
 ATTN: Kitt Noah

22-17s-34w Scott KS
Wilkinson #3-22
 Job Ticket: 53237 **DST#: 2**
 Test Start: 2013.05.28 @ 14:17:00

GENERAL INFORMATION:

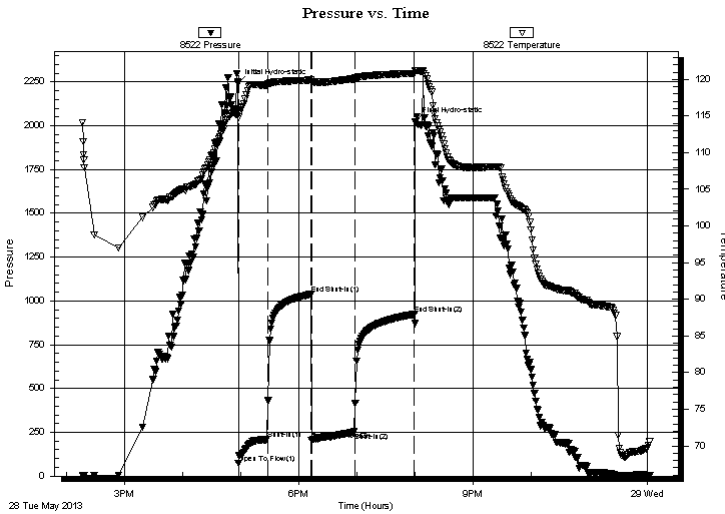
Formation: **Marmaton A-B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:57:45
 Time Test Ended: 00:03:15
 Interval: **4438.00 ft (KB) To 4506.00 ft (KB) (TVD)**
 Total Depth: 4532.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3097.00 ft (KB)
 3086.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8522 Outside
 Press @ Run Depth: 252.88 psig @ 4439.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.28 End Date: 2013.05.29 Last Calib.: 2013.05.29
 Start Time: 14:17:05 End Time: 00:03:15 Time On Btm: 2013.05.28 @ 16:57:30
 Time Off Btm: 2013.05.28 @ 20:00:00

TEST COMMENT: IF: BOB in 8 1/2 mins
 IS: Surface blow
 FF: BOB in 22 mins
 FS: Surface blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.51	115.76	Initial Hydro-static
1	72.29	114.85	Open To Flow (1)
31	208.91	119.24	Shut-In(1)
76	1037.91	119.90	End Shut-In(1)
76	205.17	119.64	Open To Flow (2)
121	252.88	120.08	Shut-In(2)
182	923.61	120.83	End Shut-In(2)
183	2023.67	121.22	Final Hydro-static



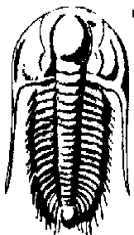
Recovery

Length (ft)	Description	Volume (bbl)
190.00	Gw mco 25g 15w 20m 40o	0.93
275.00	Gmco 45g 45o 5m 5w	1.84
115.00	Go 60o 40g	1.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley SQ PKWY Ste 100
 Wichita KS 67206
 ATTN: Kitt Noah

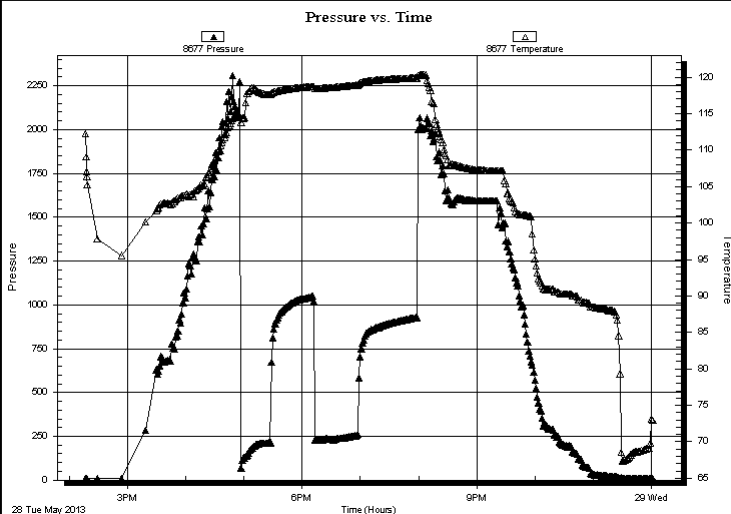
22-17s-34w Scott KS
Wilkinson #3-22
 Job Ticket: 53237 **DST#: 2**
 Test Start: 2013.05.28 @ 14:17:00

GENERAL INFORMATION:

Formation: **Marmaton A-B**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 16:57:45 Tester: Bradley Walter
 Time Test Ended: 00:03:15 Unit No: 53
Interval: 4438.00 ft (KB) To 4506.00 ft (KB) (TVD) Reference Elevations: 3097.00 ft (KB)
 Total Depth: 4532.00 ft (KB) (TVD) 3086.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8677 Inside
 Press @ Run Depth: psig @ 4439.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.28 End Date: 2013.05.29 Last Calib.: 2013.05.29
 Start Time: 14:17:05 End Time: 00:01:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 8 1/2 mins
 IS: Surface blow
 FF: BOB in 22 mins
 FS: Surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Gw mco 25g 15w 20m 40o	0.93
275.00	Gmco 45g 45o 5m 5w	1.84
115.00	Go 60o 40g	1.14

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
10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206
ATTN: Kitt Noah

22-17s-34w Scott KS
Wilkinson #3-22
Job Ticket: 53237 **DST#: 2**
Test Start: 2013.05.28 @ 14:17:00

Tool Information

Drill Pipe:	Length: 4058.00 ft	Diameter: 3.20 inches	Volume: 40.37 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 42.18 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4438.00 ft			Final	73000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	95.00 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			4412.00	
Shut In Tool	5.00			4417.00	
Hydraulic tool	5.00			4422.00	
Jars	5.00			4427.00	
Safety Joint	2.00			4429.00	
Packer	5.00			4434.00	27.00 Bottom Of Top Packer
Packer	4.00			4438.00	
Stubb	1.00			4439.00	
Recorder	0.00	8677	Inside	4439.00	
Recorder	0.00	8522	Outside	4439.00	
Perforations	30.00			4469.00	
Change Over Sub	1.00			4470.00	
Drill Pipe	32.00			4502.00	
Change Over Sub	1.00			4503.00	
Bullnose	3.00			4506.00	68.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co

22-17s-34w Scott KS

10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206

Wilkinson #3-22

Job Ticket: 53237

DST#: 2

ATTN: Kitt Noah

Test Start: 2013.05.28 @ 14:17:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	Gw mco 25g 15w 20m 40o	0.934
275.00	Gmco 45g 45o 5m 5w	1.840
115.00	Go 60o 40g	1.144

Total Length: 580.00 ft Total Volume: 3.918 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

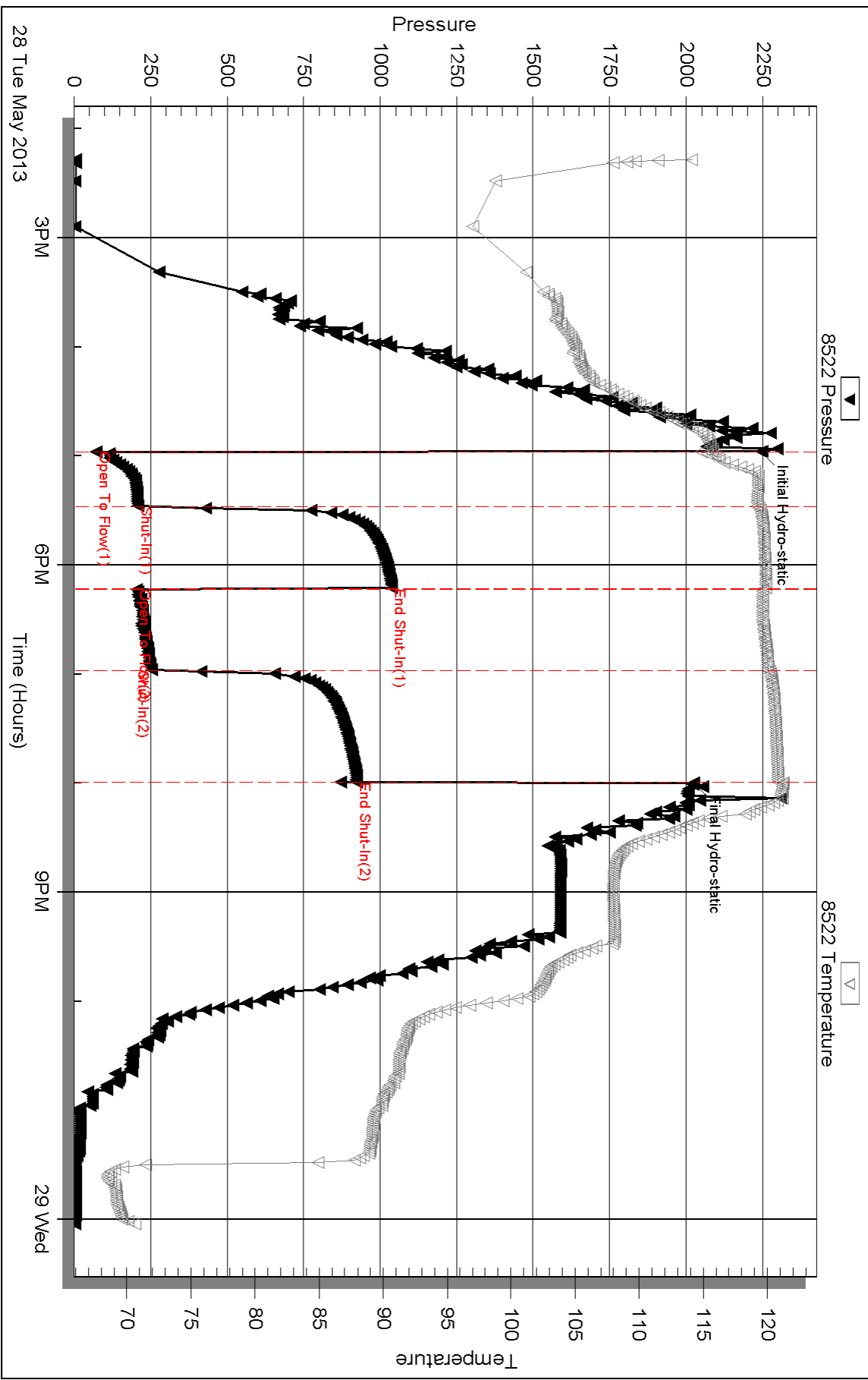
Serial #: 8522

Outside Hartman Oil Co

Wilkinson #3-22

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 53237

Printed: 2013.06.05 @ 09:57:55

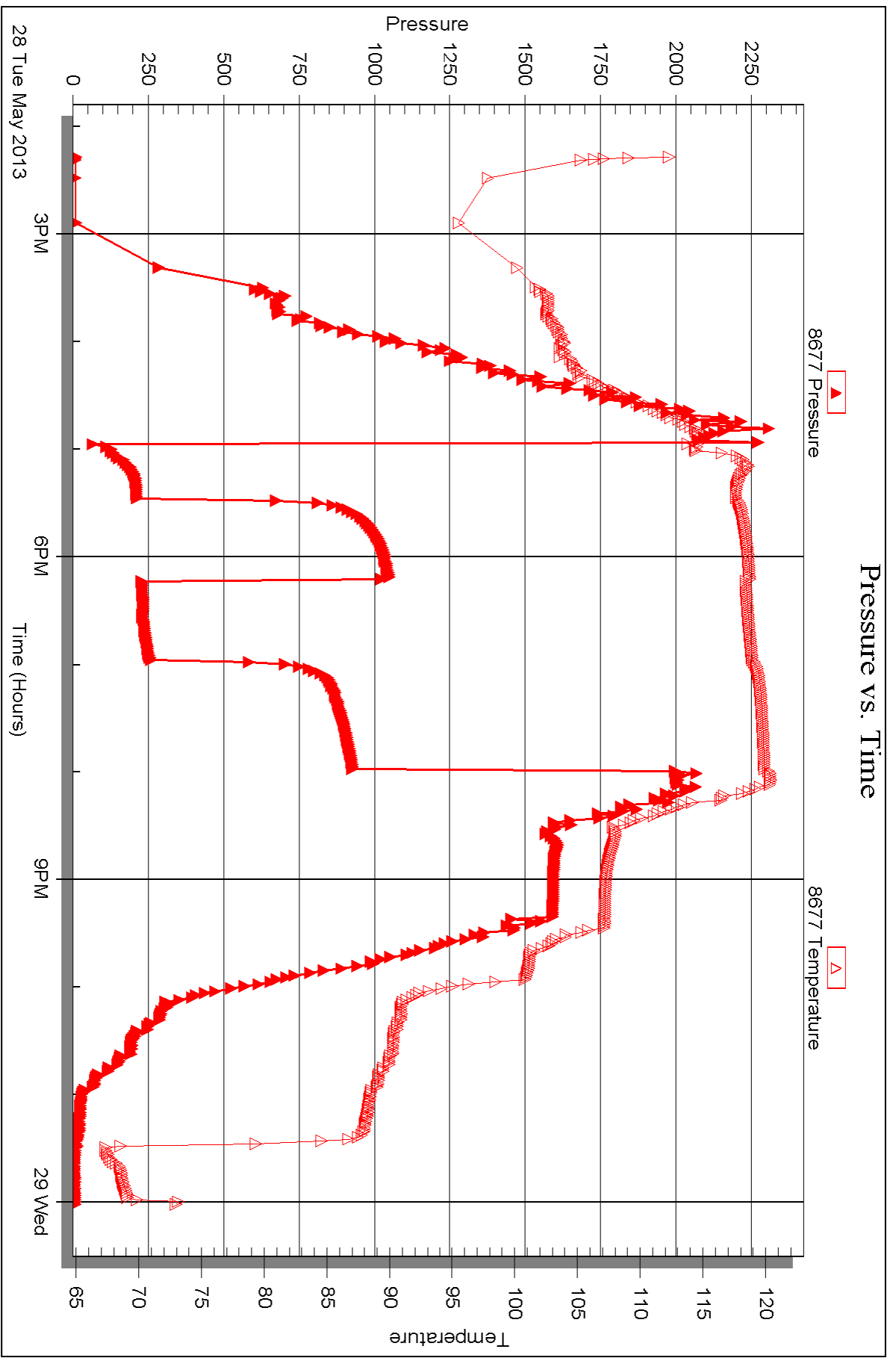
Serial #: 8677

Inside

Hartman Oil Co

Wilkinson #3-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53237

Printed: 2013.06.05 @ 09:57:56



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co**

10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206

ATTN: Kitt Noah

Wilkinson #3-22

22-17s-34w Scott KS

Start Date: 2013.05.29 @ 09:37:00

End Date: 2013.05.29 @ 17:51:00

Job Ticket #: 53238 DST #: 3

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

Printed: 2013.06.05 @ 09:57:09

Hartman Oil Co
22-17s-34w Scott KS
Wilkinson #3-22
DST # 3
Altamont "C"
2013.05.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley SQ PKWY Ste 100
 Wichita KS 67206
 ATTN: Kitt Noah

22-17s-34w Scott KS
Wilkinson #3-22
 Job Ticket: 53238 **DST#: 3**
 Test Start: 2013.05.29 @ 09:37:00

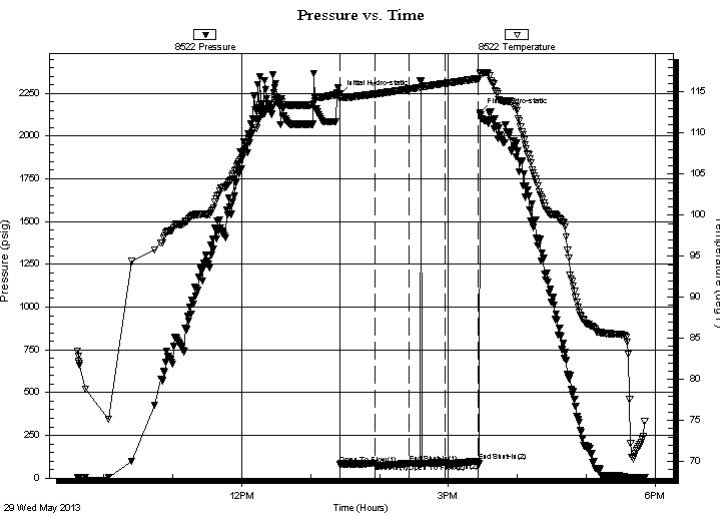
GENERAL INFORMATION:

Formation: **Altamont "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:25:30
 Time Test Ended: 17:51:00
 Interval: **4506.00 ft (KB) To 4535.00 ft (KB) (TVD)**
 Total Depth: 4535.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 53
 Reference Elevations: 3097.00 ft (KB)
 3086.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 91.82 psig @ 4507.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.05.29 End Date: 2013.05.29 Last Calib.: 2013.05.29
 Start Time: 09:37:05 End Time: 17:50:59 Time On Btm: 2013.05.29 @ 13:25:15
 Time Off Btm: 2013.05.29 @ 15:27:30

TEST COMMENT: IF: Surface blow died in 5 mins
 IS: No return
 FF: No blow flushed tool
 FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.08	114.86	Initial Hydro-static
1	82.14	114.13	Open To Flow (1)
31	85.29	114.76	Shut-In(1)
60	86.88	115.35	End Shut-In(1)
61	84.47	115.36	Open To Flow (2)
92	91.82	116.06	Shut-In(2)
121	99.08	116.62	End Shut-In(2)
123	2136.29	117.37	Final Hydro-static

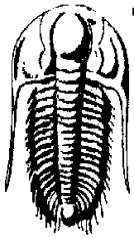
Recovery

Length (ft)	Description	Volume (bbl)
100.00	Mud 100m	0.49

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley SQ PKWY Ste 100
 Wichita KS 67206
 ATTN: Kitt Noah

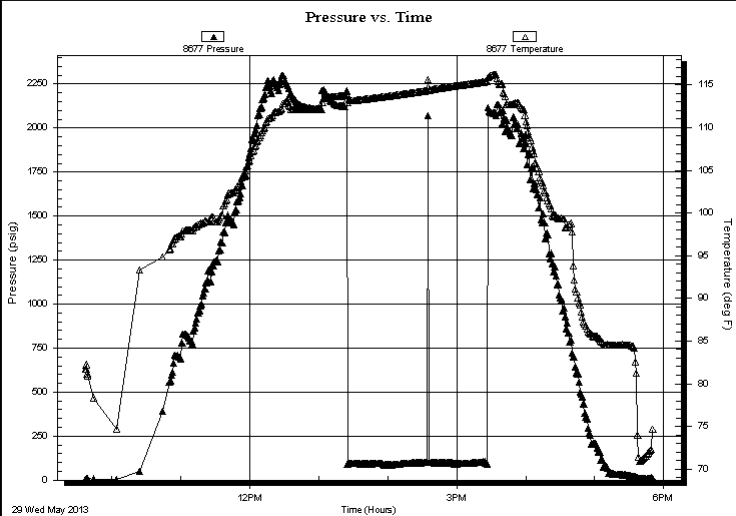
22-17s-34w Scott KS
Wilkinson #3-22
 Job Ticket: 53238 **DST#: 3**
 Test Start: 2013.05.29 @ 09:37:00

GENERAL INFORMATION:

Formation: Altamont "C"	
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 13:25:30	Tester: Bradley Walter
Time Test Ended: 17:51:00	Unit No: 53
Interval: 4506.00 ft (KB) To 4535.00 ft (KB) (TVD)	Reference Elevations: 3097.00 ft (KB)
Total Depth: 4535.00 ft (KB) (TVD)	3086.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good	KB to GR/CF: 11.00 ft

Serial #: 8677	Inside		
Press @ Run Depth: psig @ 4507.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2013.05.29	End Date: 2013.05.29	Last Calib.: 2013.05.29	
Start Time: 09:37:35	End Time: 17:50:14	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Surface blow died in 5 mins
 IS: No return
 FF: No blow flushed tool
 FS: No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Mud 100m	0.49

* 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
10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206
ATTN: Kitt Noah

22-17s-34w Scott KS
Wilkinson #3-22
Job Ticket: 53238 **DST#: 3**
Test Start: 2013.05.29 @ 09:37:00

Tool Information

Drill Pipe:	Length: 4125.00 ft	Diameter: 3.20 inches	Volume: 41.03 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 42.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4506.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	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			4487.00	
Shut In Tool	5.00			4492.00	
Hydraulic tool	5.00			4497.00	
Packer	5.00			4502.00	20.00 Bottom Of Top Packer
Packer	4.00			4506.00	
Stubb	1.00			4507.00	
Recorder	0.00	8677	Inside	4507.00	
Recorder	0.00	8522	Outside	4507.00	
Perforations	25.00			4532.00	
Bullnose	3.00			4535.00	29.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co
10500 E Berkeley SQ PKWY Ste 100
Wichita KS 67206
ATTN: Kitt Noah

22-17s-34w Scott KS
Wilkinson #3-22
Job Ticket: 53238 **DST#: 3**
Test Start: 2013.05.29 @ 09:37:00

Mud and Cushion Information

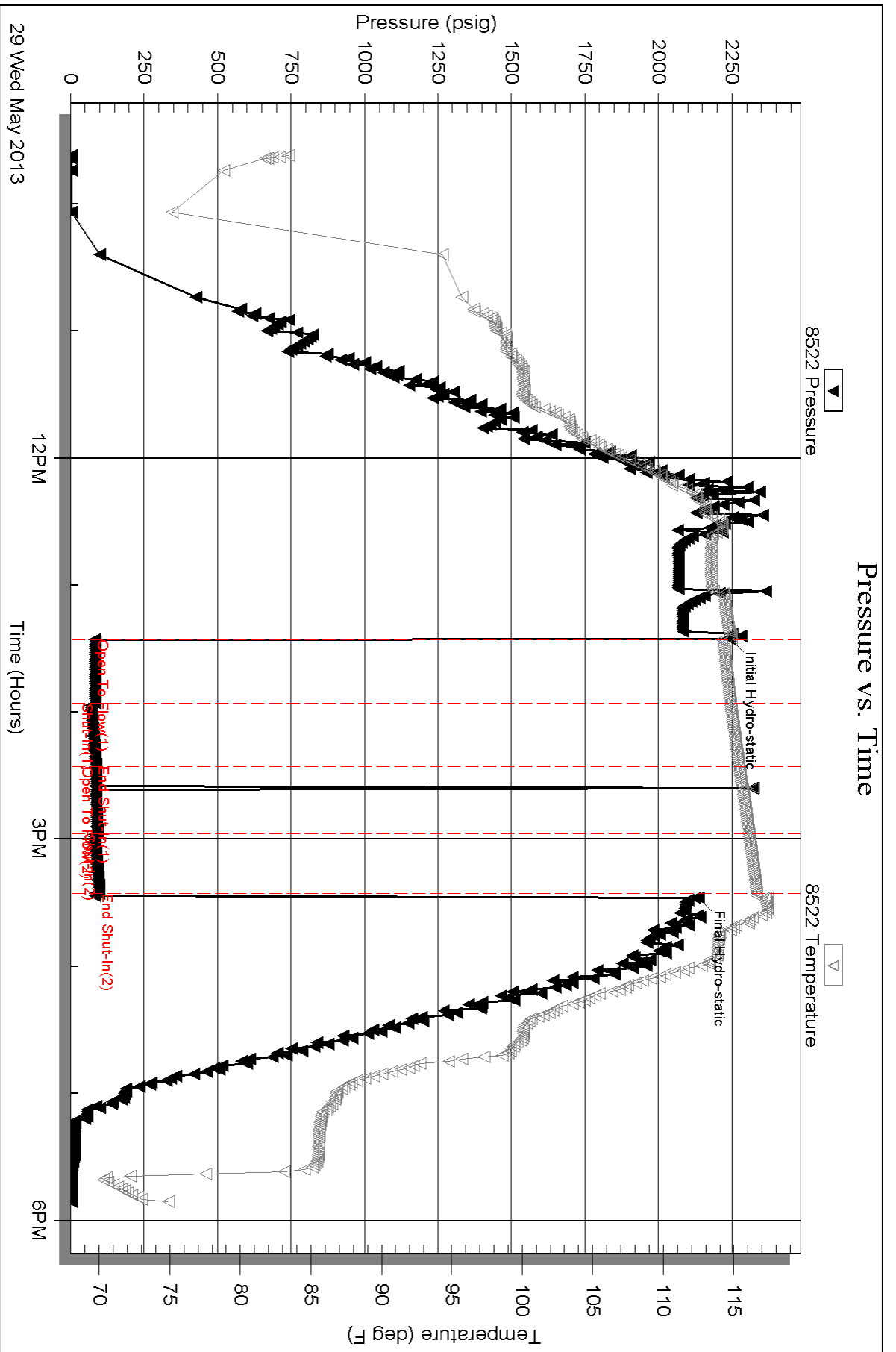
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	Mud 100m	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: suspect took on fluid w hen going through bridge at 2370'



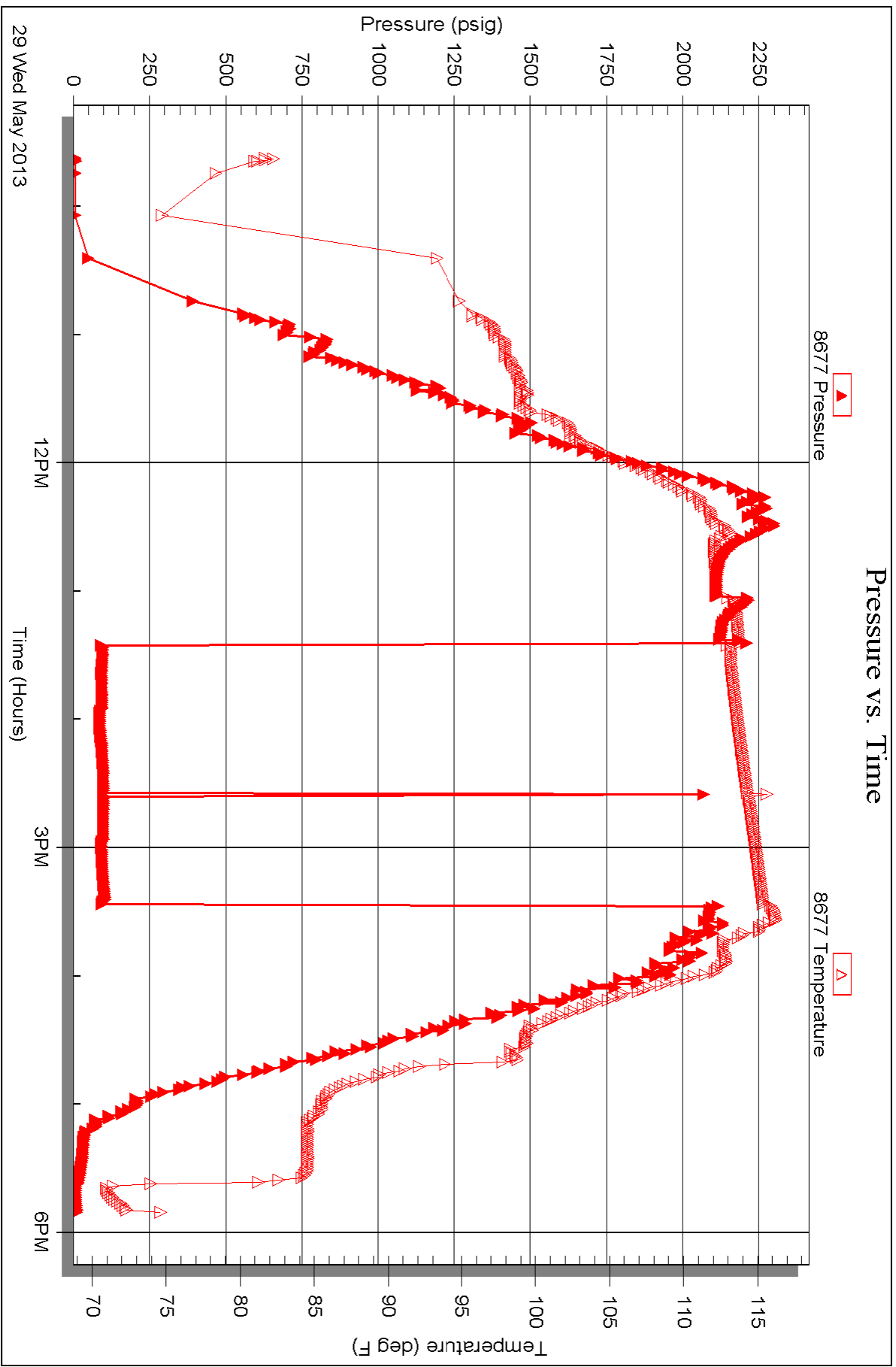
Serial #: 8677

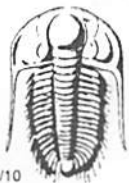
Inside

Hartman Oil Co

Wilkinson #3-22

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53236

Well Name & No. Wilkinson #3-22 Test No. 1 Date 5-27-13
 Company Hartman Oil Co. Elevation 3097 KB 3086 GL
 Address 10500 E Berkeley Sq PKWY Ste 100 - Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig #1
 Location: Sec. 22 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4409 - 44-32 Zone Tested Pleasanton
 Anchor Length 23' Drill Pipe Run 4026 Mud Wt. 9.2
 Top Packer Depth 4404 Drill Collars Run 408.33 368 Vis 55
 Bottom Packer Depth 4409 Wt. Pipe Run 0 WL 8.8
 Total Depth 4432 Chlorides 4900 ppm System LCM #2

Blow Description IF: Weak surface blow - Died in 20 min
ISD: No Return
FF: no blow
FSI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MCW (oil specs)</u>			<u>50</u>	<u>50</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 15' BHT 121 Gravity — API RW 307 @ 59.5 °F Chlorides 26000 ppm

(A) Initial Hydrostatic 2178 Test 1250 T-On Location 16:00
 (B) First Initial Flow 20 Jars 250 T-Started 18:30
 (C) First Final Flow 31 Safety Joint 75 T-Open 21:06
 (D) Initial Shut-In 1282 Circ Sub _____ T-Pulled 23:06
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 01:33
 (F) Second Final Flow 46 Mileage 29 RT 44.95 Comments _____
 (G) Final Shut-In 1280 Sampler _____
 (H) Final Hydrostatic 2163 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1769.95
 Accessibility 150 MP/DST Disc _____
 Sub Total 1769.95

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

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.

Corneio Landau Training



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53237

Well Name & No. Wilkinson # 3-22 Test No. 2 Date 5-28-13
 Company Hartman Oil Co Elevation 3097 KB 3086 GL
 Address 10500 E Berkeley Sq PKWY Ste 100, Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig # 1
 Location: Sec. 22 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4438 - 4506 Zone Tested Marmaton A-B
 Anchor Length 68 Drill Pipe Run 4058 Mud Wt. 9.2
 Top Packer Depth 4433 Drill Collars Run 368 Vis 54
 Bottom Packer Depth 4438 Wt. Pipe Run 0 WL 88
 Total Depth 4506 Chlorides 6,000 ppm System LCM 2

Blow Description IF: BOB in 8.5 min
IST: surface Blow
FF: BOB in 22 min
FST: surface Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>Gwmco</u>	<u>25</u>	<u>40</u>	<u>16</u>	<u>20</u>
<u>275</u>	<u>Gmco</u>	<u>45</u>	<u>45</u>	<u>5</u>	<u>5</u>
<u>190</u>	<u>G0</u>	<u>40</u>	<u>60</u>		

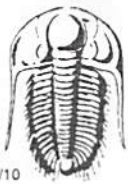
Rec Total 580 BHT 121 Gravity 27 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2243 Test 1250 T-On Location 13:30
 (B) First Initial Flow 72 ~~Test~~ T-Started 14:17
 (C) First Final Flow 209 ~~Safety Joint~~ T-Open 16:58
 (D) Initial Shut-In 1038 Circ Sub T-Pulled 19:58
 (E) Second Initial Flow 2085 Hourly Standby T-Out 24:03
 (F) Second Final Flow 253 Mileage 29 RIT 44.95
 (G) Final Shut-In 924 Sampler
 (H) Final Hydrostatic 2024 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 30 Extra Recorder
 Initial Shut-In 45 Day Standby
 Final Flow 45 Accessibility 150 Sub Total 0
 Final Shut-In 60 Sub Total 1444.95 MP/DST Disc't

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.

Comelo Land Trinee



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53238

4/10

Well Name & No. Wilkinson #3-22 Test No. 3 Date 5-29-13
 Company Hartman Oil Co. Elevation 3097 KB 3086 GL
 Address 10500 E Berkeley Sq PKWY Ste 100 Wichita, KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig #1
 Location: Sec. 22 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4506 - 4535 Zone Tested Altamont "C"
 Anchor Length 29' Drill Pipe Run ~~4125~~ 4125 Mud Wt. 9.2
 Top Packer Depth 4501 Drill Collars Run 368 Vis 55
 Bottom Packer Depth 4506 Wt. Pipe Run 0 WL 9.6
 Total Depth 4535 Chlorides 9000 ppm System LCM 2
 Blow Description IF: surface blow died in 5 min
ISI: NO return
FF: No blow - Flushed Tool
FSI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
100	mud			100	

Rec Total 100 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2243 Test 1250 T-On Location 9:15
 (B) First Initial Flow 82 Jars _____ T-Started 9:37
 (C) First Final Flow 85 Safety Joint _____ T-Open 13:26
 (D) Initial Shut-In 87 Circ Sub _____ T-Pulled 15:26
 (E) Second Initial Flow 84 Hourly Standby _____ T-Out 17:51
 (F) Second Final Flow 92 Mileage 29 R/T 44.95 Comments _____
 (G) Final Shut-In 99 Sampler _____
 (H) Final Hydrostatic 2136 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1444.95
 Final Flow 30 Accessibility 150 MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1444.95

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.
[Signature] Training

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

July 02, 2013

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

Re: ACO1
API 15-171-20951-00-00
Wilkinson 3-22
SW/4 Sec.22-17S-34W
Scott 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

ALLIED OIL & GAS SERVICES, LLC 060298

Federal Tax I.D. # 20-8651475

P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT

Oakley

DATE <u>5/22/13</u>	SEC <u>22</u>	TWP. <u>19</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 Am</u>	JOB FINISH <u>5:00 Am</u>
LEASE <u>W11K1107</u>	WELL # <u>3-22</u>	LOCATION <u>Pense 7.5 3/4 E - Ninto</u>			COUNTY <u>Scott</u>	STATE <u>Ko.</u>	
OLD OR NEW (Circle one)							

CONTRACTOR H2 #1
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 338'
 CASING SIZE 8 7/8 DEPTH 336.76'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 20.49
 EQUIPMENT
 PUMP TRUCK CEMENTER Darren Racette
 # 120 HELPER Tyler Flopse
 BULK TRUCK
 # 566-595 DRIVER Darrin Hoob
 BULK TRUCK
 # DRIVER

OWNER Same
 CEMENT
 AMOUNT ORDERED 265 SKs Com 3% CC
2% Gel
 COMMON 265 SKs @ \$17.90 \$4743.50
 POZMIX @
 GBL 5 SKs @ \$23.40 \$117.00
 CHLORIDE 9 SKs @ \$64.00 \$576.00
 ASC @
 HANDLING 286.55 of x @ \$2.48 \$710.64
 MILEAGE 19.08 x 52 x \$2.40 \$776.16
 TOTAL \$7915.56

REMARKS:

Mix 265 SKs Cement
Displace with Water
Cement did Circulate

Thank You.

SERVICE

DEPTH OF JOB 336.76
 PUMP TRUCK CHARGE \$1512.25
 EXTRA FOOTAGE @
 MILEAGE 52 @ \$7.70 \$400.40
 MANIFOLD Head @ \$275.00
LV mileage @ \$4.40 \$228.80

CHARGE TO: ~~Scott~~ Hartman oil
 STREET
 CITY STATE ZIP

TOTAL \$2416.45

PLUG & FLOAT EQUIPMENT

1 Wooden Plug @ \$107.65
 @
 @
 @
 @
 TOTAL \$107.65

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.

SALES TAX (If Any)
 TOTAL CHARGES 10,439.65
 DISCOUNT 2,714.30 IF PAID IN 30 DAYS
7,725.34 Net.

PRINTED NAME Carlos Febela
 SIGNATURE

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 136530
Invoice Date: May 31, 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	60840	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	May 31, 2013	6/30/13

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Wilkinson #3-22 Class A Common	17.90	3,580.00
3.00	MAT	Gel	23.40	70.20
650.00	MAT	Lightweight	15.95	10,367.50
750.00	MAT	Gilsonite	0.98	735.00
162.00	MAT	Flo Seal	2.97	481.14
15.00	MAT	Salt	26.35	395.25
948.42	SER	Cubic Feet	2.48	2,352.08
2,004.50	SER	Ton Mileage	2.60	5,211.70
1.00	SER	Production -- Bottom Stage	2,765.75	2,765.75
1.00	SER	Production -- Top Stage	2,406.25	2,406.25
52.00	SER	Pump Truck Mileage	7.70	400.40
1.00	SER	Manifold Head Rental	275.00	275.00
52.00	SER	Light Vehicle Mileage	4.40	228.80
1.00	EQP	5.5 AFU Float Shoe	408.33	408.33
1.00	EQP	5.5 Latch Down Plug Assembly	324.09	324.09
1.00	EQP	5.5 D V Tool	5,335.26	5,335.26
2.00	EQP	5.5 Basket	394.29	788.58
10.00	EQP	5.5 Centralizer	57.33	573.30
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		

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

\$ 9,341.64

ONLY IF PAID ON OR BEFORE
Jun 25, 2013

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	Continued

**NEW WELL
DRILLED**



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 136530
Invoice Date: May 31, 2013
Page: 2

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	60840	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	May 31, 2013	6/30/13

Quantity	Item	Description	Unit Price	Amount
1.00	OPER ASSIST	Kevin Ryan		
1.00	OPER ASSIST	Darrin Hoeb		

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

\$ 9,341.64

ONLY IF PAID ON OR BEFORE
Jun 25, 2013

Subtotal	36,698.63
Sales Tax	1,913.87
Total Invoice Amount	38,612.50
Payment/Credit Applied	
TOTAL	38,612.50

A. V. Mitchell
6-10-13

ALLIED OIL & GAS SERVICES, LLC 060840

Federal Tax I.D. # 20-8661475

REMIT TO P.O. BOX 93999

SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley

DATE <u>5-31-13</u>	SEC. <u>22</u>	TWP. <u>17</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 AM</u>	JOB FINISH <u>10:00 AM</u>
WILKINSON LEASE	WELL # <u>3-22</u>	LOCATION <u>Pence 75 240</u>				COUNTY <u>Scott</u>	STATE <u>Ks</u>
OLD OR (NEW) (Circle one)		MINTO					

CONTRACTOR Ha #1

TYPE OF JOB Production (a stage)

HOLE SIZE 2 7/8 T.D. 4930

CASING SIZE 5 1/2 DEPTH 4923.48

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL OV DEPTH 2483.22

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 10.51

CEMENT LEFT IN CSG. 10.51

PERFS. bottom top

DISPLACEMENT 58.06 59.11 59.11

EQUIPMENT

OWNER same

CEMENT

AMOUNT ORDERED 150 sks Lite 5 # Gilsonite

4 flo-seal 150 sks com 10 # salt 20 # gel

500 sks Lite 4 flo-seal 50 sks com

COMMON 200 sks @ 12.90 3580.00

POZMIX @

GEL 2 sks @ 27.40 201.20

CHLORIDE @

ASC @

Lite 650 sks @ 15.95 10372.50

Gilsonite 250 # @ .98 235.00

Flo-seal 162 # @ 2.97 481.14

salt 155 sks @ 26.35 3982.25

HANDLING 948.12 cu/ft @ 2.48 2352.08

MILEAGE 2.6076 n mile 40.09 ton 5211.20

TOTAL 23192.87

PUMP TRUCK # 431 CEMENTER Andrew Finkland HELPER Dane Ketzlaff

BULK TRUCK # 323 DRIVER Kevin Ryan

BULK TRUCK # 566 DRIVER Darrin Harb

REMARKS:

mix 150 sks Lite followed by 500 com in salt 200 sks wash pump and line clean. Release plug, start displacement with water followed by mud 100 # IPT pressure, load plug 1600 #, float back. Run 200 # rods. Plug mouse hole 200 sks set hole 20 sks. mix 450 # Lite followed by 200 sks com down shaft, wash pump and line clean. Displace plug 800 # IPT 1700 load log. Tool closed. Cement circulated. thank you

CHARGE TO: Hartman oil

PREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 4923.48 bottom top

PUMP TRUCK CHARGE 2765.25 2400.25

EXTRA FOOTAGE @

MILEAGE 52 miles @ 2.20 400.40

MANIFOLD head @ 225.00

Light vehicle @ 4.40 228.80

TOTAL 6029.30

PLUG & FLOAT EQUIPMENT

5/2

1 Abu float shoe @ 408.33

1 Hatch down plug Assy @ 324.09

1 DV Tool @ 5335.26

2 Baskets @ 394.49 288.58

10 Centralizers @ 57.33 573.30

TOTAL 7429.56

I, 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 _____

NATURE Joel Sobel

SALES TAX (If Any) _____

TOTAL CHARGES 36,698.63

DISCOUNT 9,541.64 IF PAID IN 30 DAYS

27,156.98 Net.