



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1196543
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: _____

1196543

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	Nelson Trust 21-1
Doc ID	1196543

Tops

Name	Top	Datum
Stark	4283	-1211
B/KC	4375	-1303
Marmaton	4440	-1368
Pawnee	4529	-1457
Myrick Sta	4555	-1483
Ft Scott	4574	-1502
Cherokee	4599	-1527
Johnson	4656	-1584
Mississippian	4838	-1766
LTD	4932	-1860



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E Berkeley Sq Pkwy
Ste 100
Wichita, KS 67206

ATTN: Kitt Noah

Nelson Trust #21-1

21 17s 34w Scott,KS

Start Date: 2014.03.24 @ 14:00:00

End Date: 2014.03.24 @ 23:04:15

Job Ticket #: 56398 DST #: 1

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

Printed: 2014.03.28 @ 11:25:53

Hartman Oil Co. 21 17s 34w Scott,KS Nelson Trust #21-1 DST # 1 Marmaton A - B 2014.03.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

21 17s 34w Scott,KS

Nelson Trust #21-1

Job Ticket: 56398 **DST#: 1**
Test Start: 2014.03.24 @ 14:00:00

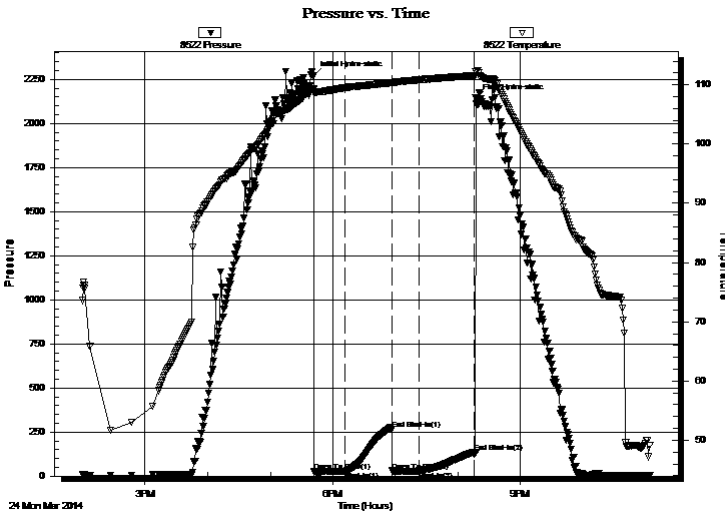
GENERAL INFORMATION:

Formation: **Marmaton A - B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:41:45
Time Test Ended: 23:04:15
Interval: **4416.00 ft (KB) To 4477.00 ft (KB) (TVD)**
Total Depth: 4477.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 69
Reference Elevations: 3072.00 ft (KB)
3060.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8522 Outside
Press@RunDepth: 29.01 psig @ 4417.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.24 End Date: 2014.03.24 Last Calib.: 2014.03.24
Start Time: 14:00:05 End Time: 23:04:15 Time On Btm: 2014.03.24 @ 17:41:30
Time Off Btm: 2014.03.24 @ 20:17:00

TEST COMMENT: IF: 1/2" blow , died @ 24 min.
IS: No return.
FF: No blow , Flushed tool. blow died.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.03	109.27	Initial Hydro-static
1	24.89	108.59	Open To Flow (1)
31	27.66	109.52	Shut-In(1)
76	267.29	110.35	End Shut-In(1)
76	29.29	110.29	Open To Flow (2)
102	29.01	110.86	Shut-In(2)
154	136.25	111.57	End Shut-In(2)
156	2142.96	112.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	socm 2o 98m (oil puddle on top)	0.10

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

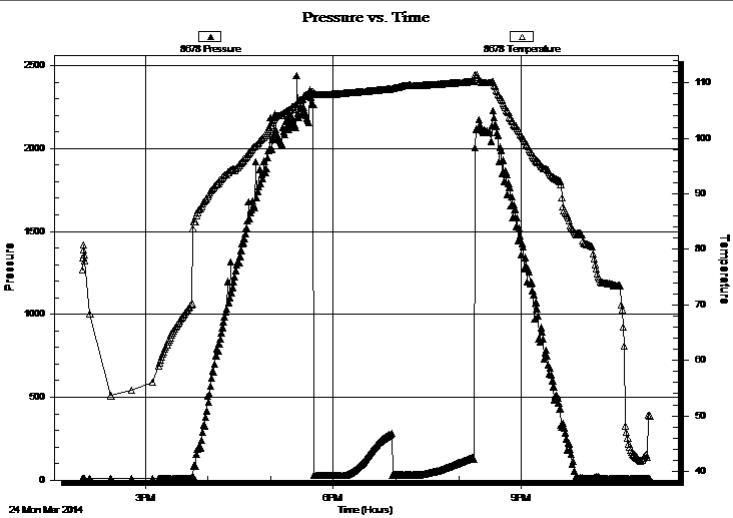
21 17s 34w Scott,KS
Nelson Trust #21-1
Job Ticket: 56398 **DST#: 1**
Test Start: 2014.03.24 @ 14:00:00

GENERAL INFORMATION:

Formation: **Marmaton A - B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:41:45
Time Test Ended: 23:04:15
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 69
Interval: **4416.00 ft (KB) To 4477.00 ft (KB) (TVD)**
Reference Elevations: 3072.00 ft (KB)
Total Depth: 4477.00 ft (KB) (TVD)
3060.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good
KB to GR/CF: 12.00 ft

Serial #: 8678 Inside
Press@RunDepth: psig @ 4417.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.24 End Date: 2014.03.24 Last Calib.: 2014.03.24
Start Time: 14:00:05 End Time: 23:02:45 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/2" blow , died @ 24 min.
IS: No return.
FF: No blow , Flushed tool. blow died.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	socm 2o 98m (oil puddle on top)	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co.

21 17s 34w Scott,KS

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

Nelson Trust #21-1

Job Ticket: 56398

DST#: 1

Test Start: 2014.03.24 @ 14:00:00

Tool Information

Drill Pipe:	Length: 4146.00 ft	Diameter: 3.80 inches	Volume: 58.16 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: 251.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4416.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	88.00 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			4390.00	
Shut In Tool	5.00			4395.00	
Hydraulic tool	5.00			4400.00	
Jars	5.00			4405.00	
Safety Joint	2.00			4407.00	
Packer	5.00			4412.00	27.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Recorder	0.00	8678	Inside	4417.00	
Recorder	0.00	8522	Outside	4417.00	
Perforations	24.00			4441.00	
Change Over Sub	1.00			4442.00	
Drill Pipe	31.00			4473.00	
Change Over Sub	1.00			4474.00	
Bullnose	3.00			4477.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

21 17s 34w Scott,KS

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

Nelson Trust #21-1

Job Ticket: 56398

DST#: 1

Test Start: 2014.03.24 @ 14:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 9.99 in³

Resistivity: ohm.m

Salinity: 8500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	socm 2o 98m (oil puddle on top)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

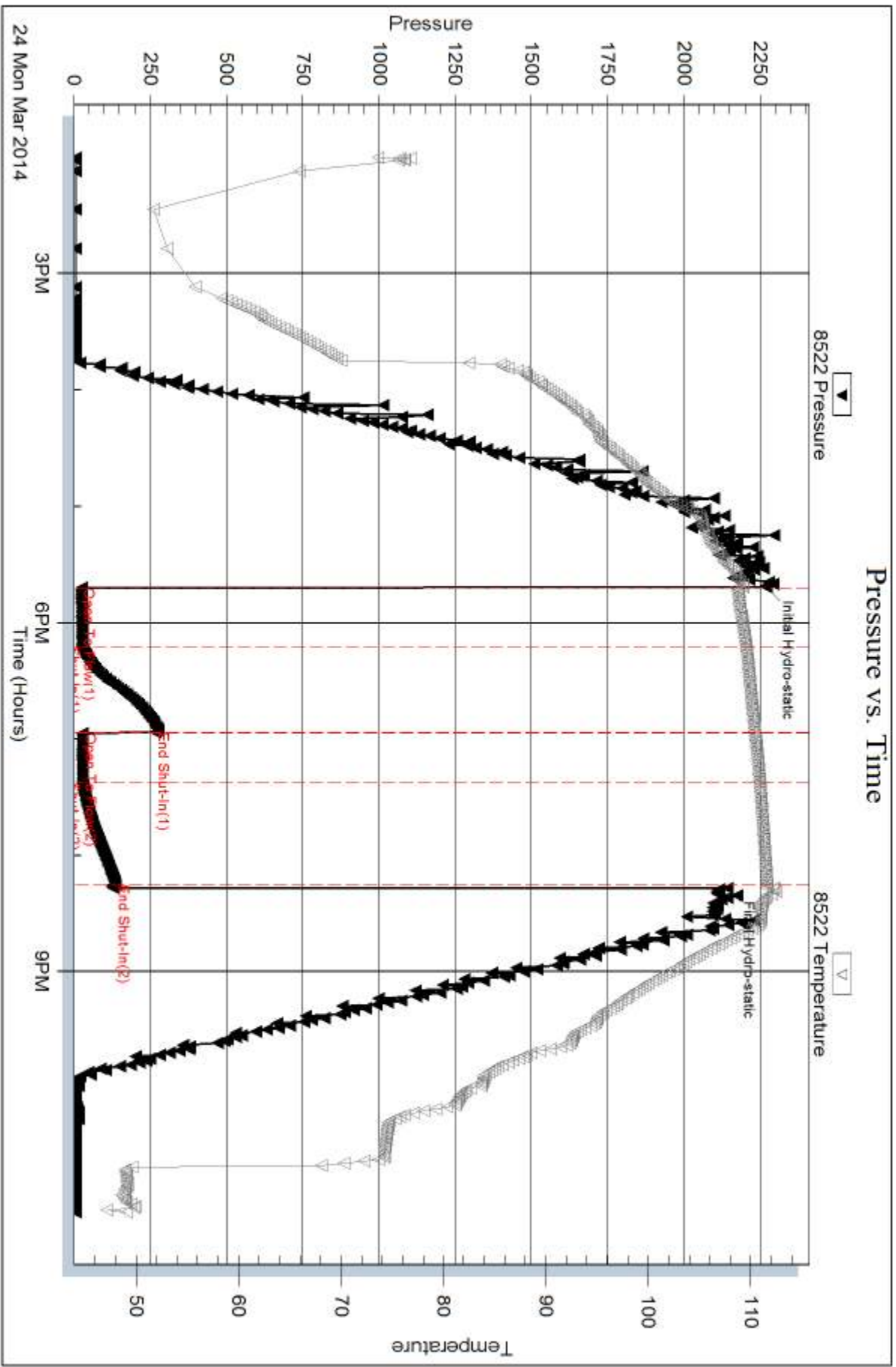
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



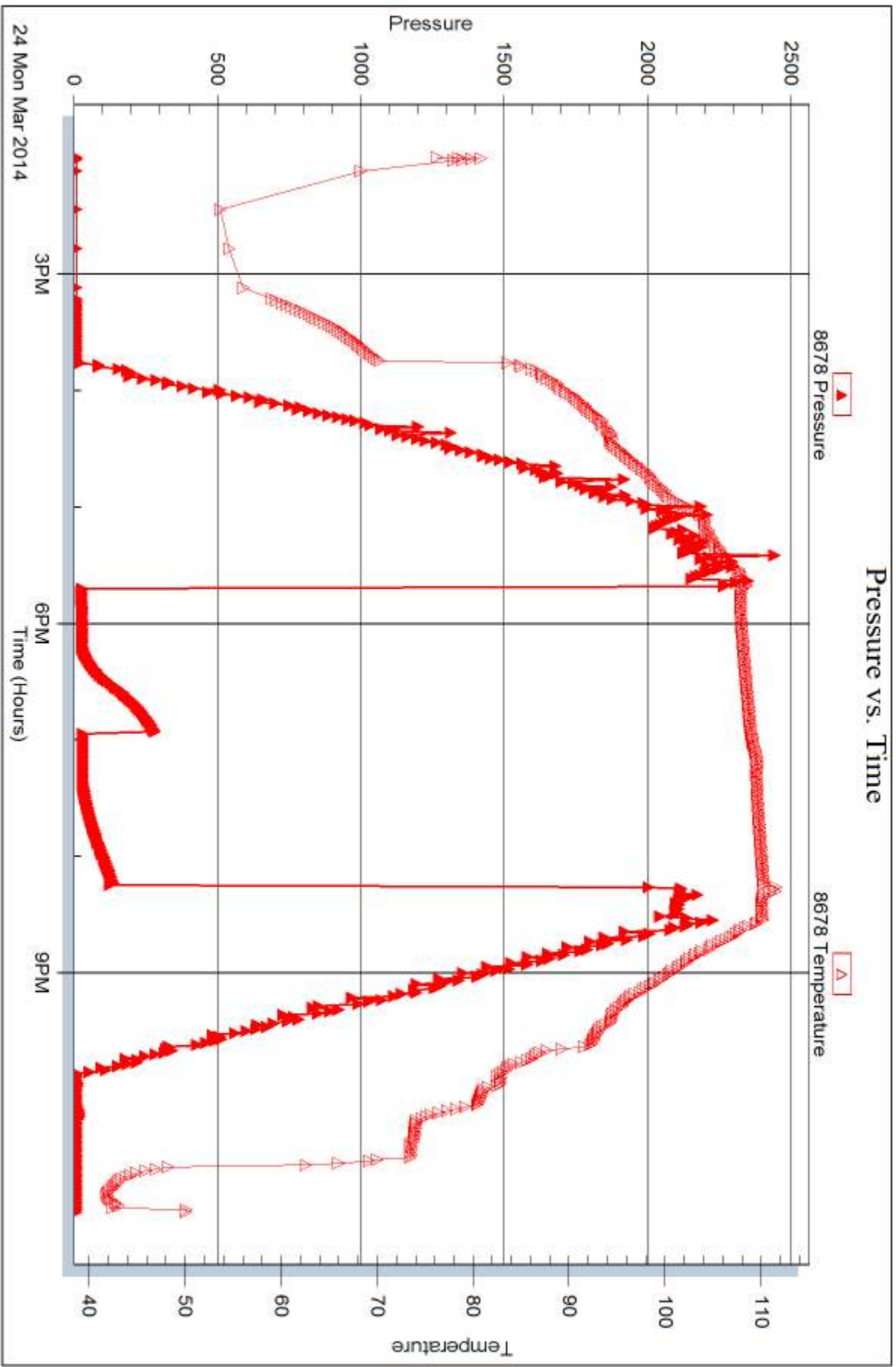
Serial #: 8678

Inside

Hartman Oil Co.

Nelson Trust #21-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56398

Printed: 2014.03.28 @ 11:25:55



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E Berkeley Sq Pkwy
Ste 100
Wichita, KS 67206

ATTN: Kitt Noah

Nelson Trust #21-1

21 17s 34w Scott,KS

Start Date: 2014.03.25 @ 11:05:00

End Date: 2014.03.25 @ 19:51:45

Job Ticket #: 56399 DST #: 2

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

Printed: 2014.03.28 @ 11:25:29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

21 17s 34w Scott,KS

Nelson Trust #21-1

Job Ticket: 56399

DST#: 2

Test Start: 2014.03.25 @ 11:05:00

GENERAL INFORMATION:

Formation: **Marmaton Altamont C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:15

Time Test Ended: 19:51:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4476.00 ft (KB) To 4512.00 ft (KB) (TVD)

Reference Elevations: 3072.00 ft (KB)

Total Depth: 4512.00 ft (KB) (TVD)

3060.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8522 Outside

Press@RunDepth: 83.18 psig @ 4477.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.25 End Date: 2014.03.25

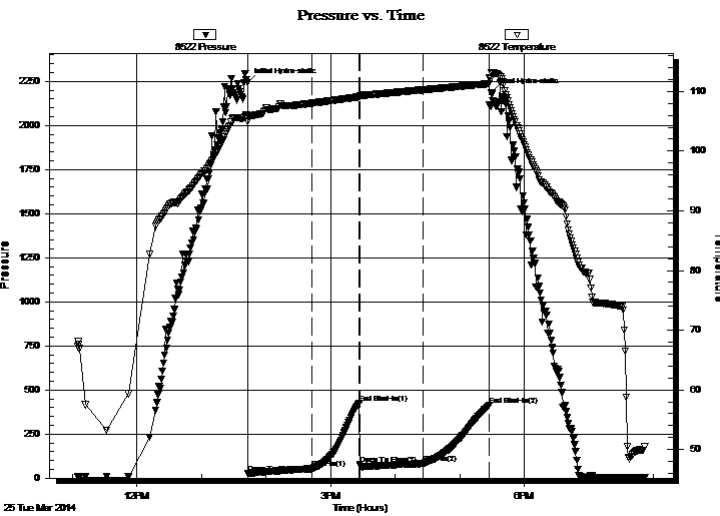
Last Calib.: 2014.03.25

Start Time: 11:05:05 End Time: 19:51:45

Time On Btm: 2014.03.25 @ 13:43:00

Time Off Btm: 2014.03.25 @ 17:29:30

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.01	106.00	Initial Hydro-static
1	24.84	104.90	Open To Flow (1)
60	54.44	108.05	Shut-In(1)
104	423.26	109.09	End Shut-In(1)
105	76.73	109.17	Open To Flow (2)
163	83.18	110.27	Shut-In(2)
225	412.08	111.31	End Shut-In(2)
227	2184.11	113.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	ocm 10o 90m	0.49
40.00	oil 100o	0.20

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Hartman Oil Co.

21 17s 34w Scott,KS

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

Nelson Trust #21-1

Job Ticket: 56399

DST#: 2

Test Start: 2014.03.25 @ 11:05:00

GENERAL INFORMATION:

Formation: **Marmaton Altamont C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:15

Time Test Ended: 19:51:45

Interval: 4476.00 ft (KB) To 4512.00 ft (KB) (TVD)

Total Depth: 4512.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Reference Elevations: 3072.00 ft (KB)

3060.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8678 Inside

Press@RunDepth: psig @ 4477.00 ft (KB)

Start Date: 2014.03.25

End Date:

2014.03.25

Capacity: 8000.00 psig

Last Calib.:

2014.03.25

Start Time:

11:05:05

End Time:

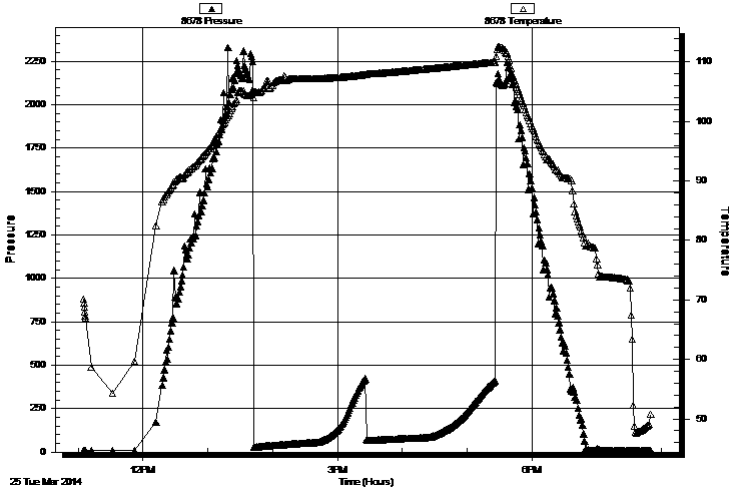
19:50:30

Time On Btm:

Time Off Btm:

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

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	ocm 10o 90m	0.49
40.00	oil 100o	0.20

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.

21 17s 34w Scott,KS

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

Nelson Trust #21-1

Job Ticket: 56399

DST#: 2

Test Start: 2014.03.25 @ 11:05:00

Tool Information

Drill Pipe:	Length: 4207.00 ft	Diameter: 3.80 inches	Volume: 59.01 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: 251.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4476.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 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			4450.00	
Shut In Tool	5.00			4455.00	
Hydraulic tool	5.00			4460.00	
Jars	5.00			4465.00	
Safety Joint	2.00			4467.00	
Packer	5.00			4472.00	27.00 Bottom Of Top Packer
Packer	4.00			4476.00	
Stubb	1.00			4477.00	
Recorder	0.00	8678	Inside	4477.00	
Recorder	0.00	8522	Outside	4477.00	
Perforations	32.00			4509.00	
Bullnose	3.00			4512.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

21 17s 34w Scott,KS

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

Nelson Trust #21-1

Job Ticket: 56399

DST#: 2

Test Start: 2014.03.25 @ 11:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	ocm 10o 90m	0.492
40.00	oil 100o	0.197

Total Length: 140.00 ft Total Volume: 0.689 bbl

Num Fluid Samples: 0

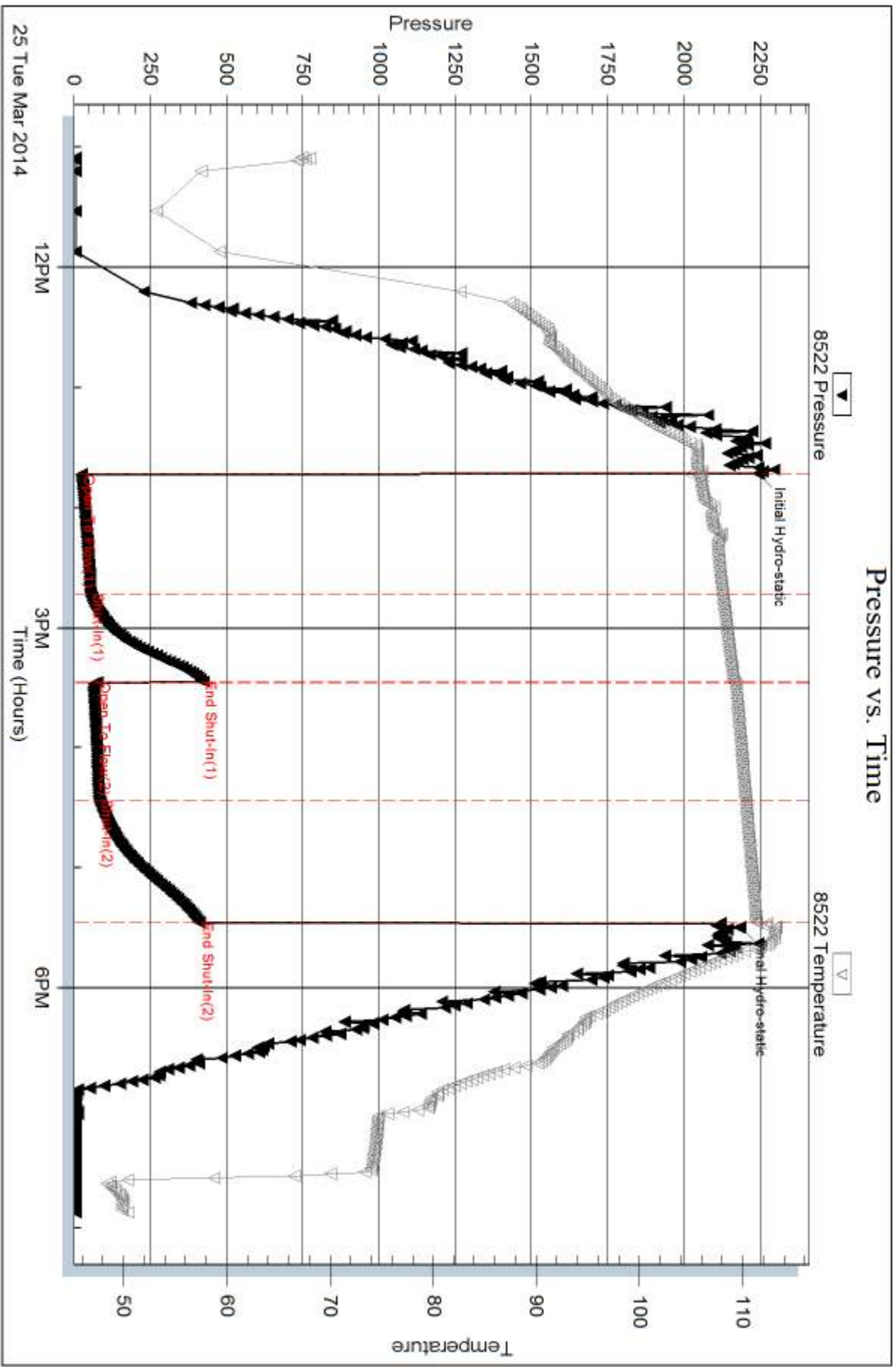
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



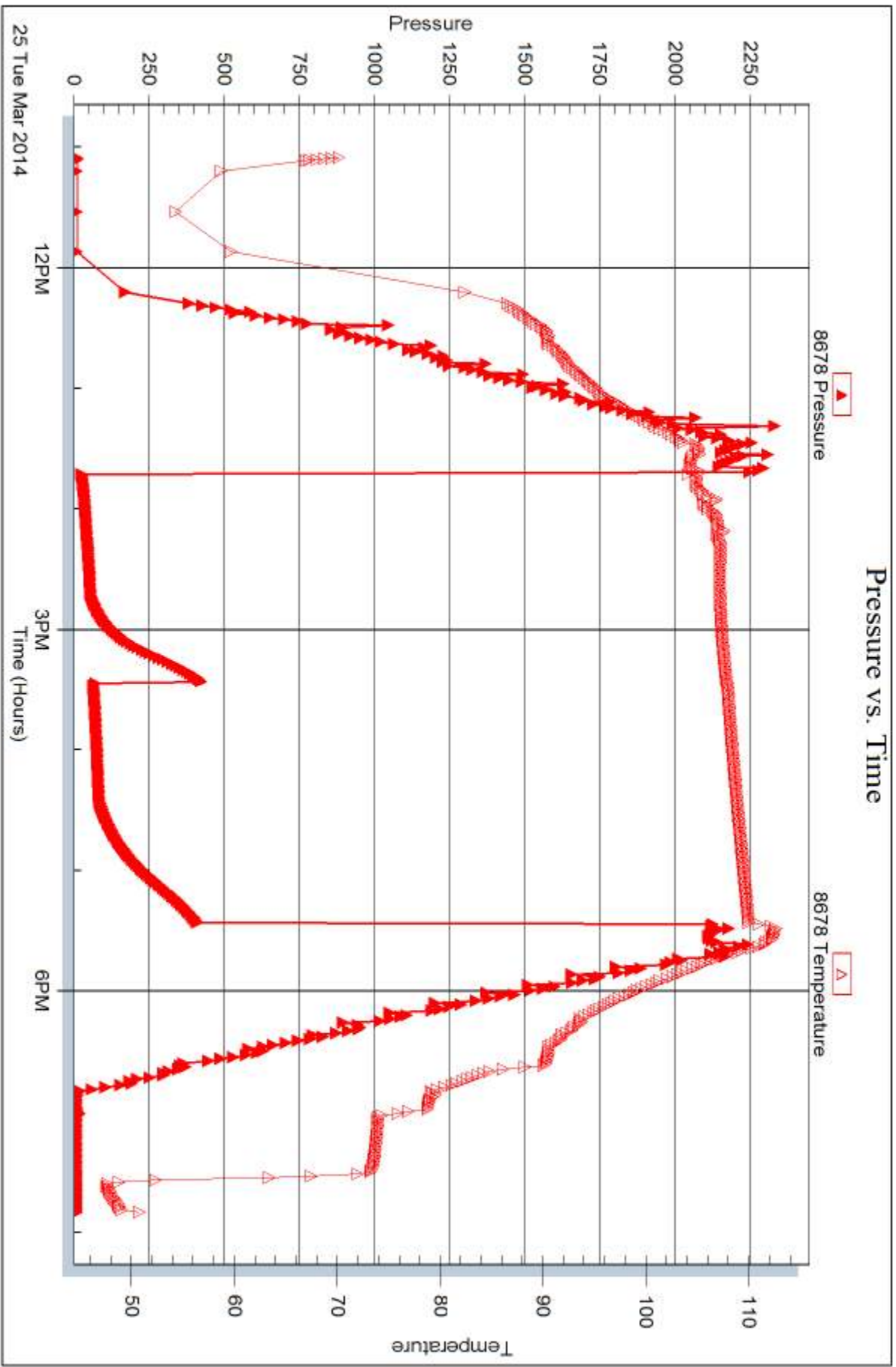
Serial #: 8678

Inside

Hartman Oil Co.

Nelson Trust #21-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56399

Printed: 2014.03.28 @ 11:25:32



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E Berkeley Sq Pkwy
Ste 100
Wichita, KS 67206

ATTN: Kitt Noah

Nelson Trust #21-1

21 17s 34w Scott,KS

Start Date: 2014.03.26 @ 11:12:00

End Date: 2014.03.26 @ 19:25:00

Job Ticket #: 56400 DST #: 3

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

Printed: 2014.03.28 @ 11:24:53

Hartman Oil Co.
21 17s 34w Scott,KS
Nelson Trust #21-1
DST # 3
Pawnee - Ft Scott
2014.03.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

21 17s 34w Scott,KS

Nelson Trust #21-1

Job Ticket: 56400

DST#: 3

Test Start: 2014.03.26 @ 11:12:00

GENERAL INFORMATION:

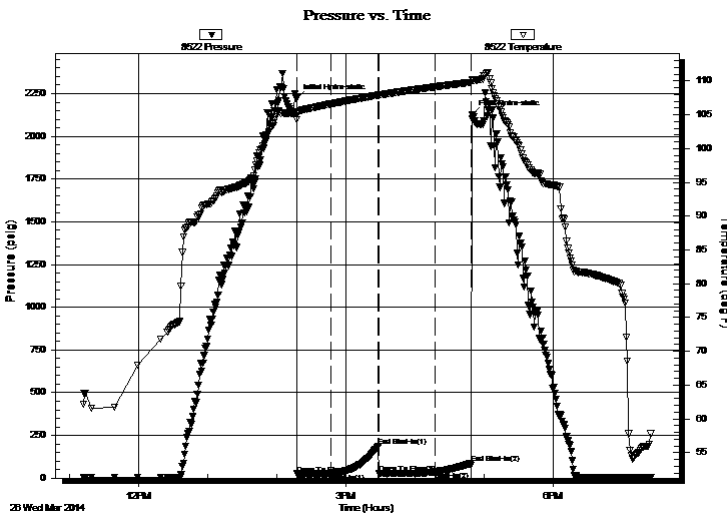
Formation: **Pawnee - Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:17:15
 Time Test Ended: 19:25:00
 Interval: **4516.00 ft (KB) To 4596.00 ft (KB) (TVD)**
 Total Depth: 4477.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 3072.00 ft (KB)
 3060.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8522 Outside

Press@RunDepth: 37.14 psig @ 4517.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.26 End Date: 2014.03.26 Last Calib.: 2014.03.26
 Start Time: 11:12:05 End Time: 19:24:59 Time On Btm: 2014.03.26 @ 14:17:00
 Time Off Btm: 2014.03.26 @ 16:50:00

TEST COMMENT: IF: Surface blow , died @ 20 min.
 IS: No return.
 FF: No blow flushed tool no blow .
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.04	105.28	Initial Hydro-static
1	24.47	104.28	Open To Flow (1)
30	26.03	106.59	Shut-In(1)
71	187.62	107.91	End Shut-In(1)
72	26.12	107.92	Open To Flow (2)
120	37.14	109.11	Shut-In(2)
152	87.65	109.79	End Shut-In(2)
153	2126.24	110.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100M (oil spots)	0.10

* 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 Pkw y
Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

21 17s 34w Scott,KS

Nelson Trust #21-1

Job Ticket: 56400

DST#: 3

Test Start: 2014.03.26 @ 11:12:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:17:15
Time Test Ended: 19:25:00
Interval: **4516.00 ft (KB) To 4596.00 ft (KB) (TVD)**
Total Depth: 4477.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Good
Reference Elevations: 3072.00 ft (KB)
3060.00 ft (CF)
KB to GR/CF: 12.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 69

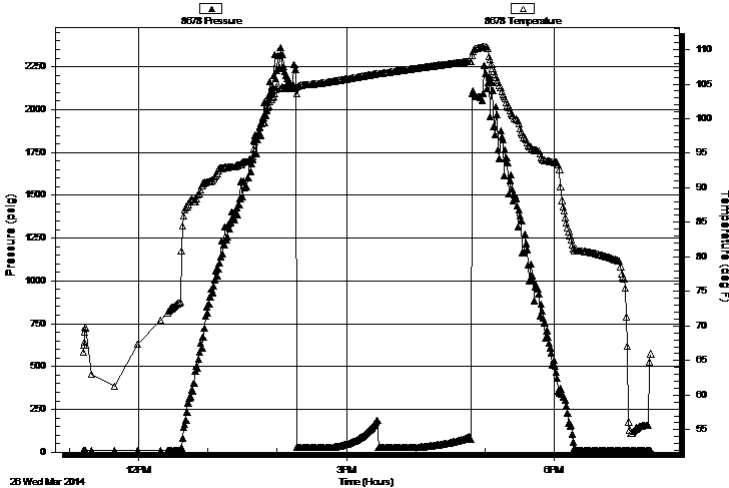
Serial #: 8678

Inside

Press@RunDepth: psig @ 4517.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.26 End Date: 2014.03.26 Last Calib.: 2014.03.26
Start Time: 11:12:05 End Time: 19:23:44 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Surface blow, died @ 20 min.
IS: No return.
FF: No blow flushed tool no blow.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100M (oil spots)	0.10

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.

21 17s 34w Scott,KS

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

Nelson Trust #21-1

Job Ticket: 56400

DST#: 3

Test Start: 2014.03.26 @ 11:12:00

Tool Information

Drill Pipe:	Length: 4268.00 ft	Diameter: 3.80 inches	Volume: 59.87 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: 251.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 61.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4516.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	107.00 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			4490.00	
Shut In Tool	5.00			4495.00	
Hydraulic tool	5.00			4500.00	
Jars	5.00			4505.00	
Safety Joint	2.00			4507.00	
Packer	5.00			4512.00	27.00 Bottom Of Top Packer
Packer	4.00			4516.00	
Stubb	1.00			4517.00	
Recorder	0.00	8678	Inside	4517.00	
Recorder	0.00	8522	Outside	4517.00	
Perforations	11.00			4528.00	
Change Over Sub	1.00			4529.00	
Drill Pipe	63.00			4592.00	
Change Over Sub	1.00			4593.00	
Bullnose	3.00			4596.00	80.00 Bottom Packers & Anchor

Total Tool Length: 107.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

21 17s 34w Scott,KS

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

Nelson Trust #21-1

Job Ticket: 56400

DST#: 3

Test Start: 2014.03.26 @ 11:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MUD 100M (oil spots)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

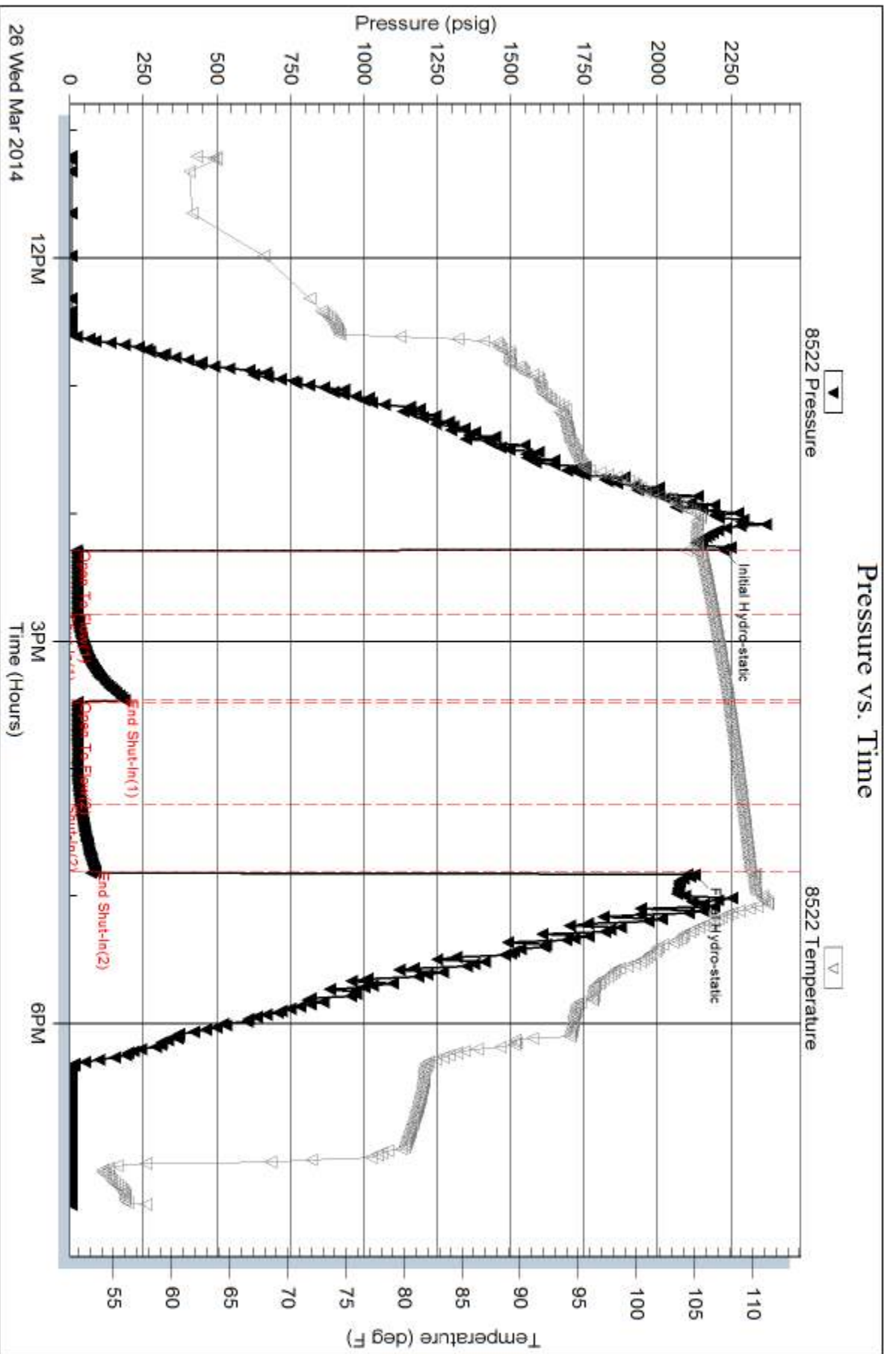
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



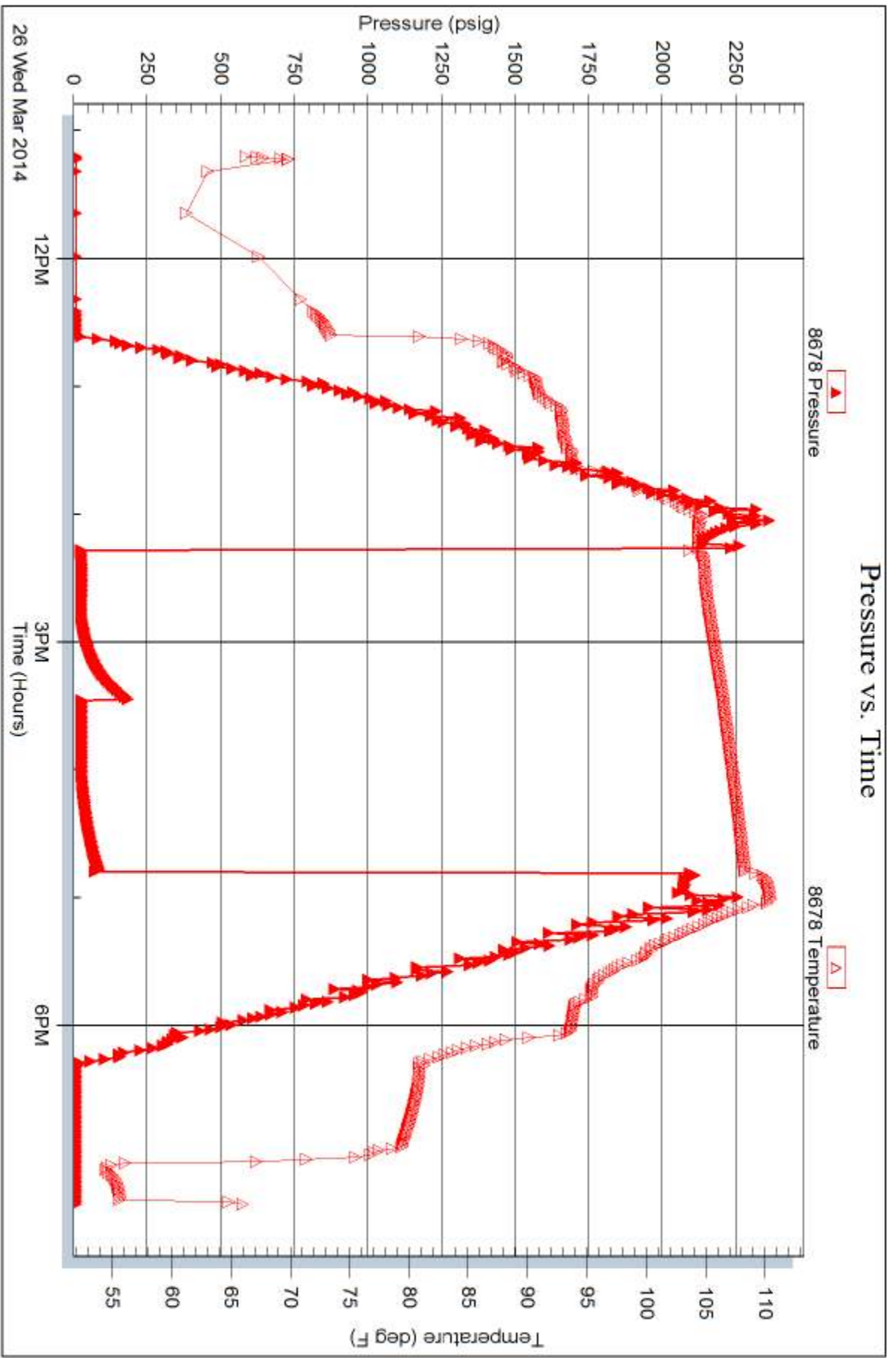
Serial #: 8678

Inside

Hartman Oil Co.

Nelson Trust #21-1

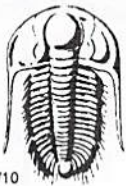
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56400

Printed: 2014.03.28 @ 11:24:55



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56398

4/10

Well Name & No. Nelson Trust 21-1 Test No. 1 Date 3/24/14
 Company Hartman Oil Coy Inc Elevation ~~4416~~ 3072 KB 5460 GL
 Address 10500 E Berkeley Sq. Pkwy Ste 100 Wichita, ks 67206
 Co. Rep / Geo. Kitt Noah Rig H12 #2
 Location: Sec. 21 Twp. 17s Rge. 34w Co. Scott State Ks

Interval Tested 4416 4477 Zone Tested Marmaton A-B
 Anchor Length 61' Drill Pipe Run 4146 Mud Wt. 9.4
 Top Packer Depth 4411 Drill Collars Run 251 Vis 55
 Bottom Packer Depth 4416 Wt. Pipe Run 0 WL 10.0
 Total Depth 4477 Chlorides 8500 ppm System LCM 2 #

Blow Description IF: 1/2" blow, died @ 24 min.
ISI: No return.
FF: No blow. Flushed tool blow died.
FSI: No return.

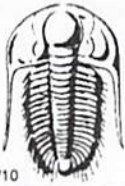
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>500m</u>		<u>2</u>	<u>98</u>	
	<u>Oil Puddle on top</u>				

Rec Total 20 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2271</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1215</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1400</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1741</u>
(D) Initial Shut-In <u>267</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2011</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2304</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>33 RT</u> 51.15	Comments
(G) Final Shut-In <u>136</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2143</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1776.15</u>	

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56399

4/10

Well Name & No. Nelson Trust 21-1 Test No. 2 Date 3/25/14
 Company Hartman Oil Co, Inc Elevation 3072 KB 3060 GL
 Address 10500 E Berkeley Sq. PKwy Ste 100 Wichita, Ks 67206
 Co. Rep / Geo. Kitt Noah Rig H2 #2
 Location: Sec. 21 Twp. 17s Rge. 34w Co. Scott State Ks

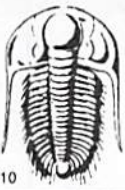
Interval Tested 4476 4512 Zone Tested Marmaton Alignment 'C'
 Anchor Length 36 Drill Pipe Run 4207 Mud Wt. 9.3
 Top Packer Depth 4471 Drill Collars Run 250 Vis 58
 Bottom Packer Depth 4476 Wt. Pipe Run 0 WL 8.8
 Total Depth 4512 Chlorides 8,000 ppm System LCM 2#
 Blow Description TF: 1" blow
ISI: No return.
FF: 1" blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OTL</u>	<u>100</u>			
<u>100</u>	<u>OCM</u>	<u>10</u>			<u>90</u>

Rec Total 140 BHT 111 Gravity 2.3 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2245 Test 1250 T-On Location 0930
 (B) First Initial Flow 25 Jars _____ T-Started 1105
 (C) First Final Flow 54 Safety Joint _____ T-Open 1241
 (D) Initial Shut-In 423 Circ Sub NC T-Pulled 1726
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 1952
 (F) Second Final Flow 83 Mileage 33 RT 51.15 Comments _____
 (G) Final Shut-In 412 Sampler _____
 (H) Final Hydrostatic 2184 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 60 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1451.15
 Final Flow 60 Accessibility 150 MP/DST Disc' _____
 Final Shut-In 60 Sub Total 1451.15

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56400

Well Name & No. Nelson Trust 21-1 Test No. 3 Date 3/25/14
 Company Hartman Oil Co, Inc Elevation 3072 KB 3060 GL
 Address 10500 E Berkeley Sq Pkwy Ste 100 Wichita, KS 67206
 Co. Rep / Geo. K.H. Noah Rig H12 #2
 Location: Sec. 21 Twp. 17s Rge. 34w Co. Scott State KS

Interval Tested 4516 4596 Zone Tested Purnee - Ft. Scott
 Anchor Length 80 Drill Pipe Run 4268 Mud Wt. 9.4
 Top Packer Depth 4511 Drill Collars Run 250 Vis 52
 Bottom Packer Depth 4516 Wt. Pipe Run 0 WL 8.0
 Total Depth 4596 Chlorides 6500 ppm System LCM 2#

Blow Description IF: Surface blow
IS: No return
FF: No blow, Flushed tool, No blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mon</u>			<u>100</u>	

Rec Total 20 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2222 Test 1250 T-On Location 1030
 (B) First Initial Flow 24 Jars — T-Started 1112
 (C) First Final Flow 26 Safety Joint — T-Open 1417
 (D) Initial Shut-In 188 Circ Sub — T-Pulled 1647
 (E) Second Initial Flow 26 Hourly Standby — T-Out 1925
 (F) Second Final Flow 37 Mileage 33 RT 51.15 Comments —
 (G) Final Shut-In 88 Sampler —
 (H) Final Hydrostatic 2126 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1451.15
 Accessibility 150 MP/DST Disc't —
 Sub Total 1451.15

Approved By _____ Our Representative

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.



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 142207
Invoice Date: Mar 28, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Hart	62885	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Mar 28, 2014	4/27/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Nelson Trust #21-1 <i>85032</i>		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
120.00	CEMENT MATERIALS	Pozmix	9.35	1,122.00
10.00	CEMENT MATERIALS	Gel	23.40	234.00
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
322.20	CEMENT SERVICE	Cubic Feet Charge	2.48	799.06
941.50	CEMENT SERVICE	Ton Mileage Charge	2.60	2,447.90
1.00	CEMENT SERVICE	Rotary Plug	2,483.59	2,483.59
70.00	CEMENT SERVICE	Pump Truck Mileage	7.70	539.00
70.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	308.00
3.50	CEMENT SERVICE	Waiting on Location	440.00	1,540.00
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	OPERATOR ASSISTANT	Marlyn Spangenberg		

NEW WELL DRILLED *DATA*
A. V. Mitchell
4-7-14

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

\$ 3,358.76

ONLY IF PAID ON OR BEFORE
Apr 22, 2014

Subtotal	12,918.30
Sales Tax	1,052.84
Total Invoice Amount	13,971.14
Payment/Credit Applied	
TOTAL	13,971.14

ALLIED OIL & GAS SERVICES, LLC 062885

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Brownfield

DATE: <u>3-28-14</u>	SEC: <u>21</u>	TWP: <u>17</u>	RANGE: <u>34</u>	CALLED OUT	ON LOCATION: <u>4pm</u>	JOB START: <u>12:30am</u>	JOB FINISH: <u>1:30am</u>	
LEASE <u>rel to trust</u>		WELL #: <u>21-1</u>	LOCATION: <u>West Scott city to padoc</u>			COUNTY: <u>Scott</u>	STATE: <u>TX</u>	
OLD OR NEW (Circle one)		NAME - <u>SN - Winto</u>						

CONTRACTOR: HZ

TYPE OF JOB: Rotary plug

HOLE SIZE: 7 7/8 T.D.

CASING SIZE: _____ DEPTH _____

TUBING SIZE: 4 1/2 DEPTH _____

DRILL PIPE: 4 1/2 DEPTH: 2400

TOOL: _____ DEPTH _____

PRES. MAX: _____ MINIMUM _____

MEAS. LINE: _____ SHOE JOINT _____

CEMENT LEFT IN CSG: All

PERFS: _____

DISPLACEMENT: Fraser

OWNER: _____

CEMENT AMOUNT ORDERED: 300 SKS 60/40 40/40

1/4 flt

COMMON	<u>180</u>	@ <u>17.90</u>	<u>3222.00</u>
POZMIX	<u>120</u>	@ <u>9.35</u>	<u>1122.00</u>
GEL	<u>10</u>	@ <u>23.40</u>	<u>234.00</u>
CHLORIDE		@	
ASC		@	
<u>410 steel</u>	<u>75</u>	@ <u>2.97</u>	<u>222.75</u>
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>322.20</u>	@ <u>2.48</u>	<u>799.05</u>
MILEAGE	<u>13.45 x 70 x</u>	<u>2.60</u>	<u>2447.80</u>
TOTAL			<u>8047.70</u>

EQUIPMENT

PUMP TRUCK CEMENTER: Isaac

398 HELPER: Ben Jewell

BULK TRUCK

616-170 DRIVER: Marlyn Spangberg

BULK TRUCK

_____ DRIVER _____

REMARKS:

evaluation - 1st run - bad setting resulting

run 4 1/2" pipe - fill hole w/ 200g mud

#1 - 2400 ft - 50 SKS

#2 - 1440 - 80 RH - 30 SKS

#3 - 720 - 50 MH - 20

#4 - 360 - 50

#5 - 60 - 20

plug down 1:30 AM plug down

CHARGE TO: Hartman oil

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>2400</u>		
PUMP TRUCK CHARGE	<u>2.483.59</u>		
EXTRA FOOTAGE		@	
MILEAGE	<u>13.45 x 70</u>	@ <u>7.70</u>	<u>534.00</u>
MANIFOLD	<u>13.45 x 70</u>	@ <u>4.40</u>	<u>308.00</u>
<u>wait time</u>	<u>3.5</u>	@ <u>40.00</u>	<u>154.00</u>
		@	

TOTAL 4870.59

PLUG & FLOAT EQUIPMENT

_____	@	
_____	@	
_____	@	
_____	@	
_____	@	

TOTAL _____

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: X STEVEN CRAIG

SIGNATURE: X Steven Craig

SALES TAX (If Any) _____

TOTAL CHARGES 12,918.29

3,358.76

DISCOUNT _____ IF PAID IN 30 DAYS

9,559.53



Thank you!



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 142050
Invoice Date: Mar 18, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Hart	62587	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 18, 2014	4/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Nelson Trust #21-1 <i>85032</i>		
215.00	CEMENT MATERIALS	Class A Common	17.90	3,848.50
4.00	CEMENT MATERIALS	Gel	23.40	93.60
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
232.49	CEMENT SERVICE	Cubic Feet Charge	2.48	576.58
742.70	CEMENT SERVICE	Ton Mileage Charge	2.60	1,931.02
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
70.00	CEMENT SERVICE	Pump Truck Mileage	7.70	539.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
70.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	308.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

NEW WELL
DRILLED

D & A

Dr. Mitchell
3-31-14

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

\$ 2,494.94

ONLY IF PAID ON OR BEFORE
Apr 12, 2014

Subtotal	9,595.95
Sales Tax	363.01
Total Invoice Amount	9,958.96
Payment/Credit Applied	
TOTAL	9,958.96

ALLIED OIL & GAS SERVICES, LLC 062587

Federal Tax I.D. # 20-8851478

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dallas TX

DATE <u>3/18/14</u>	SEC <u>21</u>	TWP. <u>17</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 am</u>	JOB FINISH <u>9:30 am</u>
LEASE <u>Wilson Trust</u> WELL # <u>21-1</u>		LOCATION <u>Medco Charlotte Rd N 5 miles</u>			COUNTY <u>Tarrant</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one) <u>NEW</u>			WVNO				

CONTRACTOR H2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 337'

CASING SIZE 8 7/8 DEPTH 337

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 20.5

OWNER Same

CEMENT AMOUNT ORDERED 215 cum 3000 270 gal

COMMON	<u>215</u>	@ <u>17.90</u>	<u>3848.50</u>
POZMIX		@	
GEL	<u>4</u>	@ <u>21.40</u>	<u>85.60</u>
CHLORIDE	<u>8</u>	@ <u>64.00</u>	<u>512.00</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan

403-291 HELPER Kevin Ryan

BULK TRUCK

818 DRIVER Thomas (TWS)

BULK TRUCK

DRIVER

HANDLING	<u>27.42 CF</u>	@ <u>2.10</u>	<u>576.82</u>
MILEAGE	<u>20</u>	@ <u>28.80</u>	<u>576.00</u>
			TOTAL <u>6961.70</u>

REMARKS:

Ann City, Dallas, Max Grant, Displace

Grant, Shutter

Cement did complete

Thank you Alan, Kevin, Thomas

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1512.25</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>70</u>	@ <u>7.70</u>	<u>539.00</u>
MANIFOLD - Hand		@	<u>275.00</u>
Liter Vehicle	<u>70</u>	@ <u>4.40</u>	<u>308.00</u>

CHARGE TO: Hartman Oil

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2634.25

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

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 9,555.95

DISCOUNT 2,494.94 IF PAID IN 30 DAYS

7101.00 Net.

PRINTED NAME STEVEN CRAIG

SIGNATURE Steven Craig

