



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E. Berkeley SQ
Pky Ste 100
Wichita KS 67206

ATTN: Kitt Noah

L Maune #6

30-21s-33w Finney,KS

Start Date: 2012.06.09 @ 20:48:05

End Date: 2012.06.10 @ 06:01:30

Job Ticket #: 46575 DST #: 1

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

Printed: 2012.06.15 @ 15:17:28

Hartman Oil Co. 30-21s-33w Finney,KS L Maune #6 DST # 1 LKC "1" 2012.06.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hartman Oil Co.

30-21s-33w Finney, KS

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

L Maune #6

Job Ticket: 46575

DST#: 1

Test Start: 2012.06.09 @ 20:48:05

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:49:30

Time Test Ended: 06:01:30

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Mike Roberts**

Unit No: **48**

Interval: 4034.00 ft (KB) To 4066.00 ft (KB) (TVD)

Reference Elevations: **2905.00 ft (KB)**

Total Depth: **4066.00 ft (KB) (TVD)**

2895.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

KB to GR/CF: **10.00 ft**

Serial #: 8736

Inside

Press @ Run Depth: **771.68 psig @ 4061.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.06.09**

End Date:

2012.06.10

Last Calib.: **2012.06.10**

Start Time: **20:48:05**

End Time:

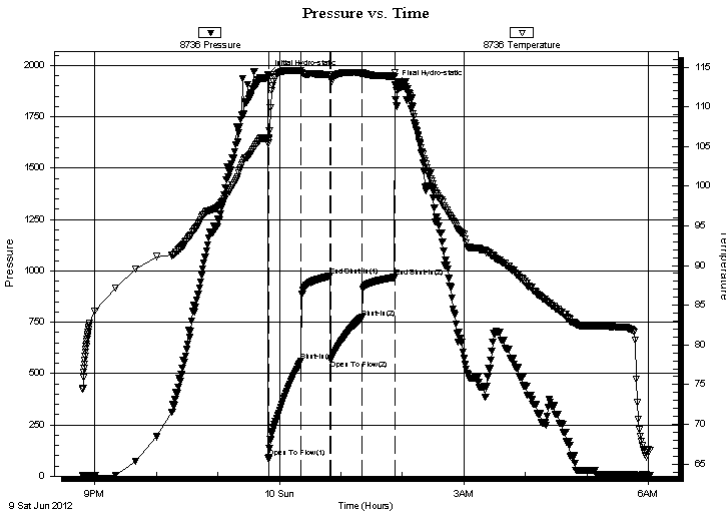
06:01:30

Time On Btm: **2012.06.09 @ 23:49:00**

Time Off Btm: **2012.06.10 @ 01:52:45**

TEST COMMENT: IF:BOB in 1 min.
IS:No return blow
FF:BOB in 1 min
FS:No return blow

PRESSURE SUMMARY



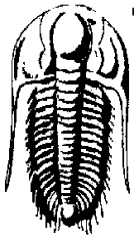
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.64	106.07	Initial Hydro-static
1	93.09	105.93	Open To Flow (1)
33	559.40	114.53	Shut-In(1)
61	974.99	113.96	End Shut-In(1)
62	566.70	113.41	Open To Flow (2)
92	771.68	114.24	Shut-In(2)
124	968.09	113.81	End Shut-In(2)
124	1905.38	114.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
309.00	sw 100% sw	1.52
496.00	ocw 10%o 90%w	6.96
248.00	mco 5%m 20%o 75%w	3.48
496.00	w com 20%w 30%o 50%m	6.96
90.00	mco 5%m 90%o	1.26

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

30-21s-33w Finney,KS

L Maune #6

Job Ticket: 46575 **DST#: 1**
Test Start: 2012.06.09 @ 20:48:05

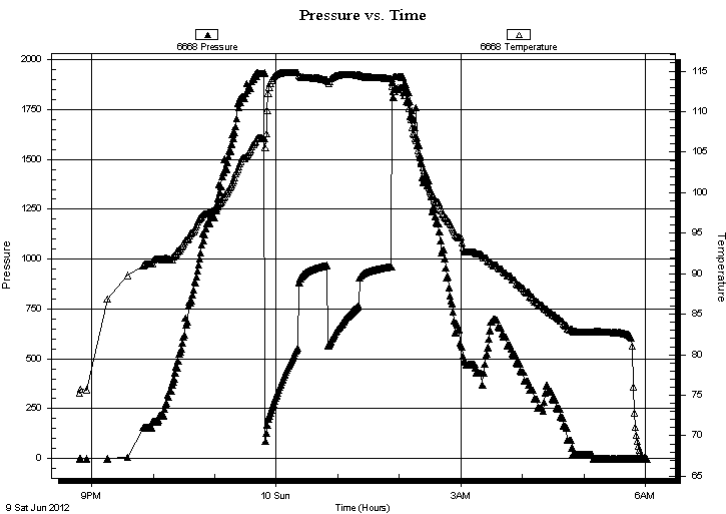
GENERAL INFORMATION:

Formation: **LKC "I"**
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 23:49:30 Tester: Mike Roberts
Time Test Ended: 06:01:30 Unit No: 48
Interval: **4034.00 ft (KB) To 4066.00 ft (KB) (TVD)** Reference Elevations: 2905.00 ft (KB)
Total Depth: 4066.00 ft (KB) (TVD) 2895.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 6668 Outside
Press @ Run Depth: psig @ 4061.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.06.09 End Date: 2012.06.10 Last Calib.: 2012.06.10
Start Time: 20:48:15 End Time: 06:01:30 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:BOB in 1 min.
IS:No return blow
FF:BOB in 1 min
FS:No return blow

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
309.00	sw 100% sw	1.52
496.00	ocw 10%o 90%w	6.96
248.00	mcow 5%m 20%o 75%w	3.48
496.00	w com 20%w 30%o 50%m	6.96
90.00	mco 5%m 90%o	1.26

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 46575

DST#: 1

Test Start: 2012.06.09 @ 20:48:05

Tool Information

Drill Pipe:	Length: 3735.00 ft	Diameter: 3.80 inches	Volume: 52.39 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 53.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	4034.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	52.00 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			4015.00	
Shut In Tool	5.00			4020.00	
Hydraulic tool	5.00			4025.00	
Packer	5.00			4030.00	20.00 Bottom Of Top Packer
Packer	4.00			4034.00	
Stubb	1.00			4035.00	
Perforations	26.00			4061.00	
Recorder	0.00	8736	Inside	4061.00	
Recorder	0.00	6668	Outside	4061.00	
Bullnose	5.00			4066.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 46575

DST#: 1

Test Start: 2012.06.09 @ 20:48:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 0.00 in³

Resistivity: 0.00 ohm.m

Salinity: 2300.00 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: 15000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
309.00	sw 100% sw	1.520
496.00	ocw 10%o 90%w	6.958
248.00	mcow 5%m 20%o 75%w	3.479
496.00	w com 20%w 30%o 50%m	6.958
90.00	mco 5%m 90%o	1.262

Total Length: 1639.00 ft Total Volume: 20.177 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .448@ 68.4*=15,000 ppm

Serial #: 8736

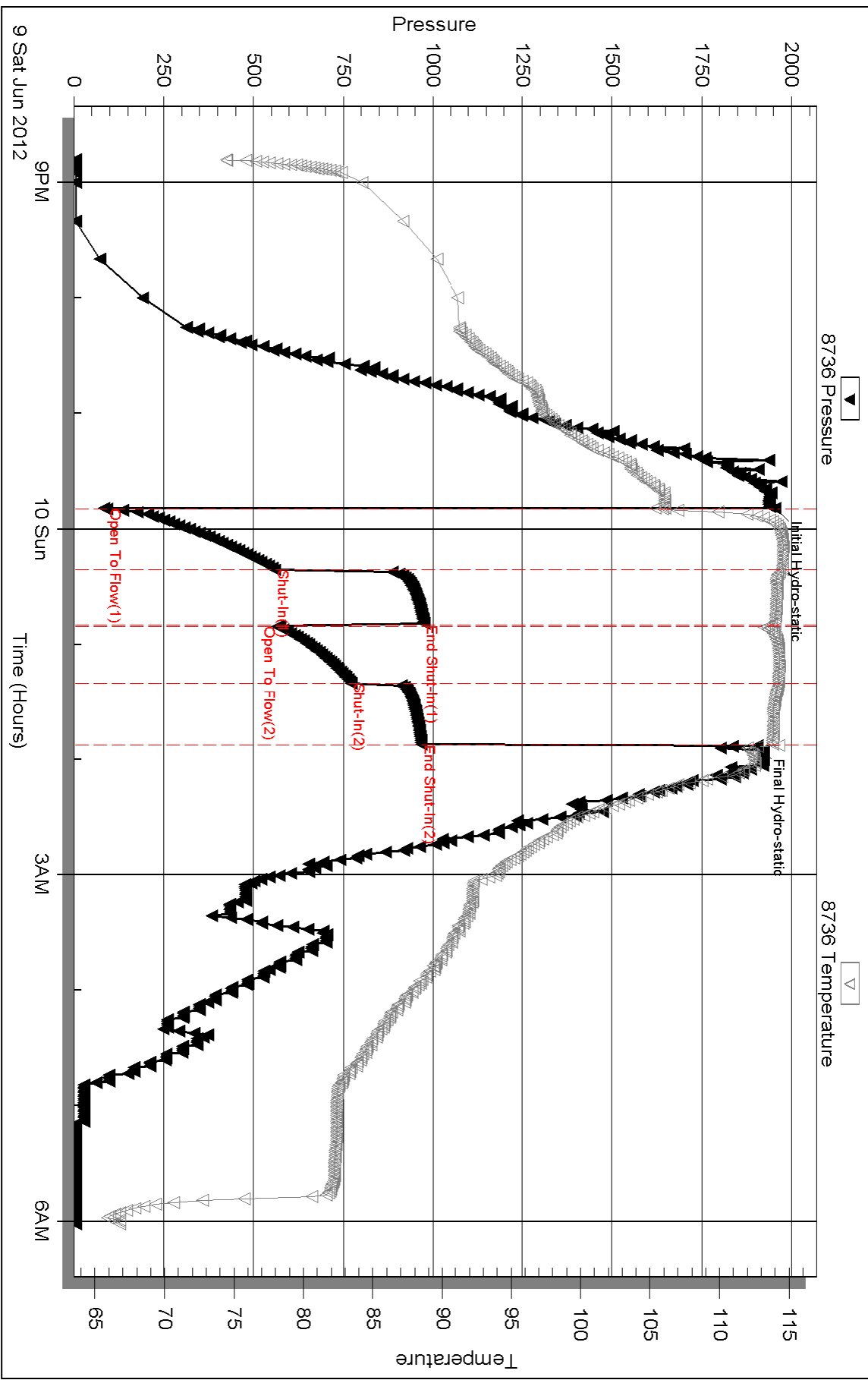
Inside

Hartman Oil Co.

L Maurene #6

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46575

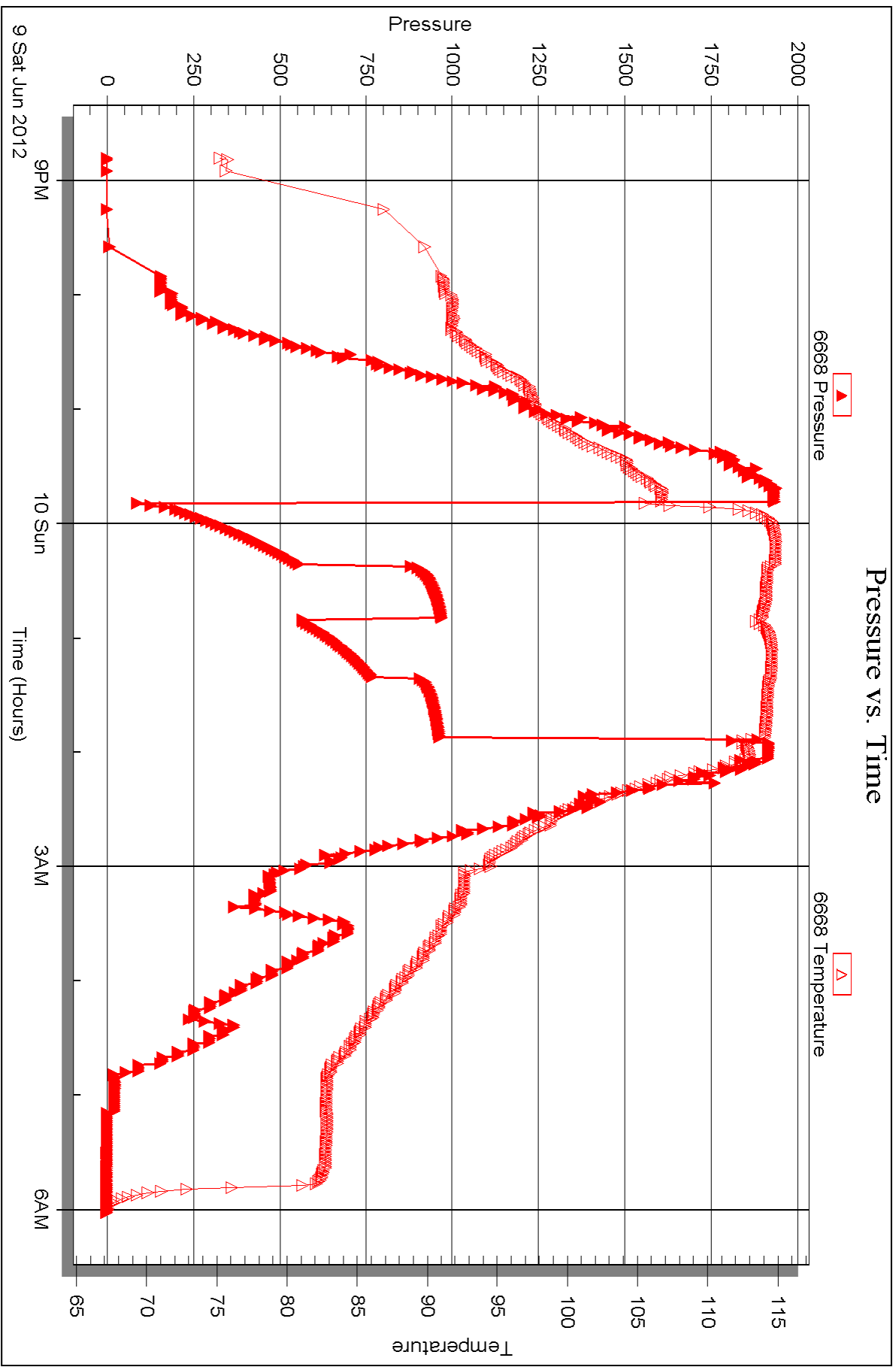
Printed: 2012.06.15 @ 15:17:30

Serial #: 6668

Outside Hartman Oil Co.

L Maure #6

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E. Berkeley SQ
Pky Ste 100
Wichita KS 67206

ATTN: Kitt Noah

L Maune #6

30-21s-33w Finney,KS

Start Date: 2012.06.10 @ 23:53:05

End Date: 2012.06.11 @ 08:07:14

Job Ticket #: 48376 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.15 @ 15:16:51

Hartman Oil Co. 30-21s-33w Finney,KS L Maune #6 DST # 2 LKC "L" 2012.06.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hartman Oil Co.

30-21s-33w Finney, KS

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

L Maune #6

Job Ticket: 48376

DST#: 2

Test Start: 2012.06.10 @ 23:53:05

GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:23:30

Time Test Ended: 08:07:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4223.00 ft (KB) To 4254.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4254.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 316.40 psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.10

End Date:

2012.06.11

Last Calib.: 2012.06.11

Start Time: 23:53:05

End Time:

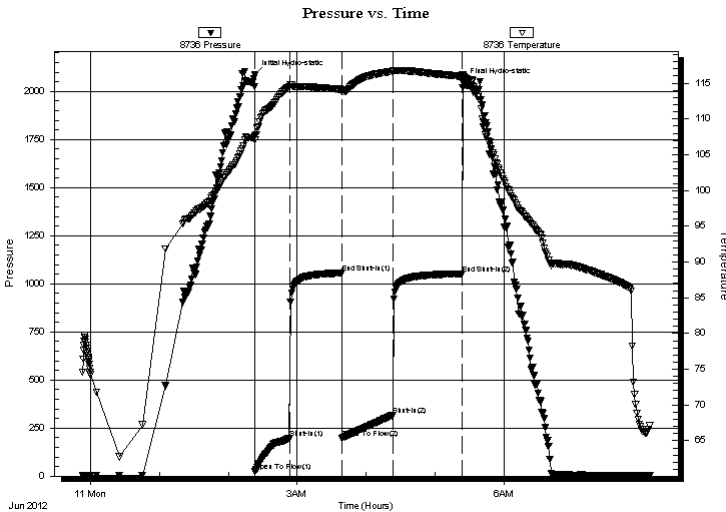
08:07:14

Time On Btm: 2012.06.11 @ 02:23:00

Time Off Btm: 2012.06.11 @ 05:24:29

TEST COMMENT: IF:BOB in 13 min.
IS:Return blow built to weak surface blow
FF:BOB in 15 min.
FS:Return blow built to weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.13	107.49	Initial Hydro-static
1	25.55	107.09	Open To Flow (1)
31	197.52	114.59	Shut-In(1)
76	1056.21	114.14	End Shut-In(1)
77	198.34	113.87	Open To Flow (2)
121	316.40	116.64	Shut-In(2)
181	1052.81	115.94	End Shut-In(2)
182	2043.95	116.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 10% m 90% w	0.61
186.00	gcow m 5% g 5% o 30% w 60% m	0.92
310.00	gcomw 5% g 5% o 45% w 45% m	4.35
32.00	mcgo 10% g 10% m 80% o	0.45
30.00	free oil	0.42
0.00	GIP= 62	0.00

* 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.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 48376

DST#: 2

Test Start: 2012.06.10 @ 23:53:05

Tool Information

Drill Pipe:	Length: 3924.00 ft	Diameter: 3.80 inches	Volume: 55.04 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4223.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 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			4204.00	
Shut In Tool	5.00			4209.00	
Hydraulic tool	5.00			4214.00	
Packer	5.00			4219.00	20.00 Bottom Of Top Packer
Packer	4.00			4223.00	
Stubb	1.00			4224.00	
Perforations	25.00			4249.00	
Recorder	0.00	8736	Inside	4249.00	
Recorder	0.00	6668	Outside	4249.00	
Bullnose	5.00			4254.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 48376

DST#: 2

Test Start: 2012.06.10 @ 23:53:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 0.00 in³

Resistivity: 0.00 ohm.m

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 29 deg API

Water Salinity: 25000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 10%m 90%w	0.610
186.00	gcow m 5%g 5%o 30%w 60%m	0.924
310.00	gcomw 5% g 5%o 45%w 45%m	4.348
32.00	mcgo 10%g 10%m 80%o	0.449
30.00	free oil	0.421
0.00	GIP= 62	0.000

Total Length: 682.00 ft Total Volume: 6.752 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

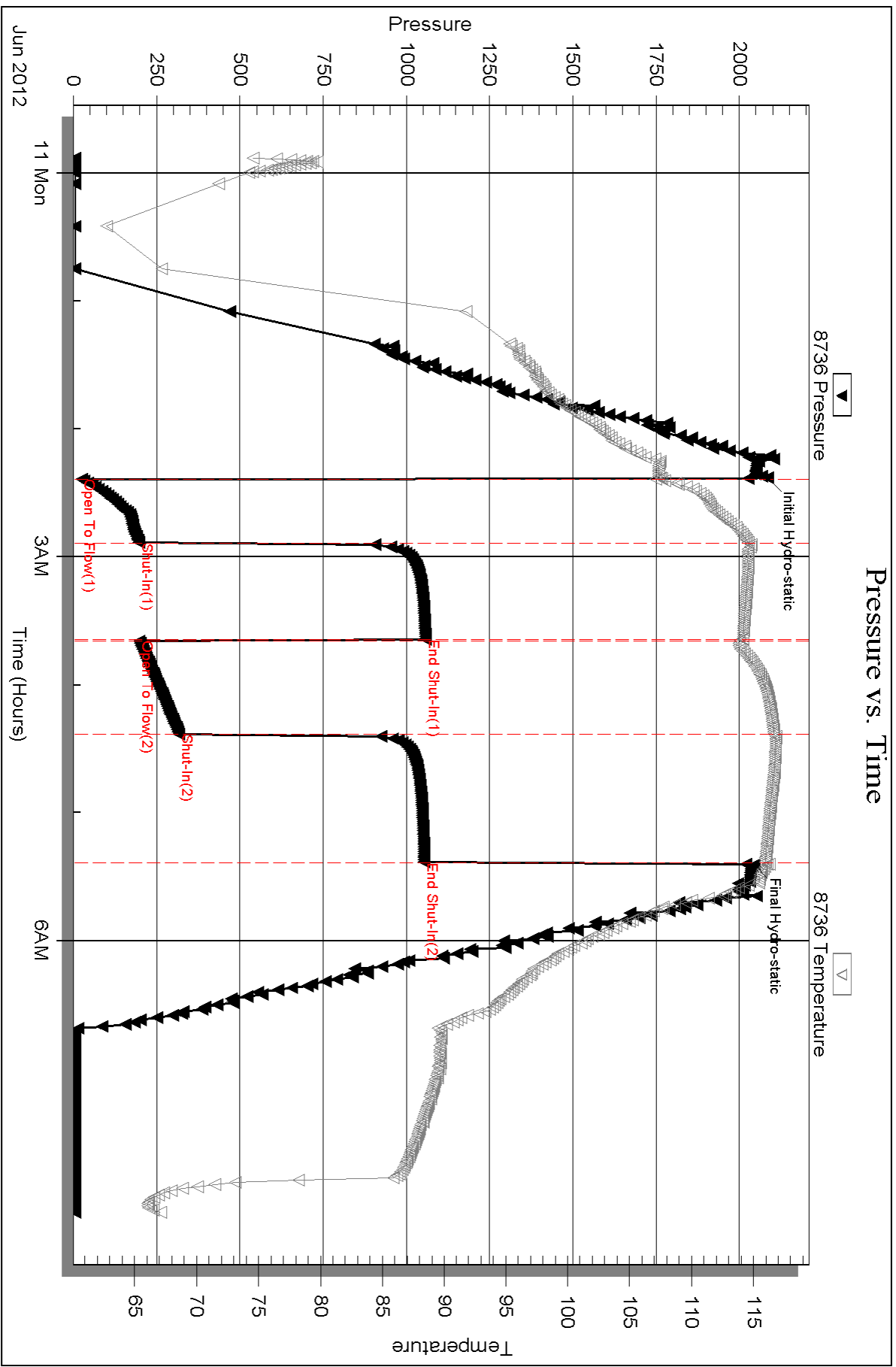
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 29@ 60

RW= .309@63.9=25,000 ppm





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E. Berkeley SQ
Pkyw Ste 100
Wichita KS 67206

ATTN: Kitt Noah

L Maune #6

30-21s-33w Finney,KS

Start Date: 2012.06.12 @ 06:32:05

End Date: 2012.06.12 @ 13:23:14

Job Ticket #: 48377 DST #: 3

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

Printed: 2012.06.15 @ 15:16:09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Hartman Oil Co.

30-21s-33w Finney, KS

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

L Maune #6

Job Ticket: 48377

DST#: 3

Test Start: 2012.06.12 @ 06:32:05

GENERAL INFORMATION:

Formation: **Pawnee-Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:23:00

Time Test Ended: 13:23:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: **4357.00 ft (KB) To 4406.00 ft (KB) (TVD)**

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4406.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 68.80 psig @ 4368.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.12 End Date: 2012.06.12

Last Calib.: 2012.06.12

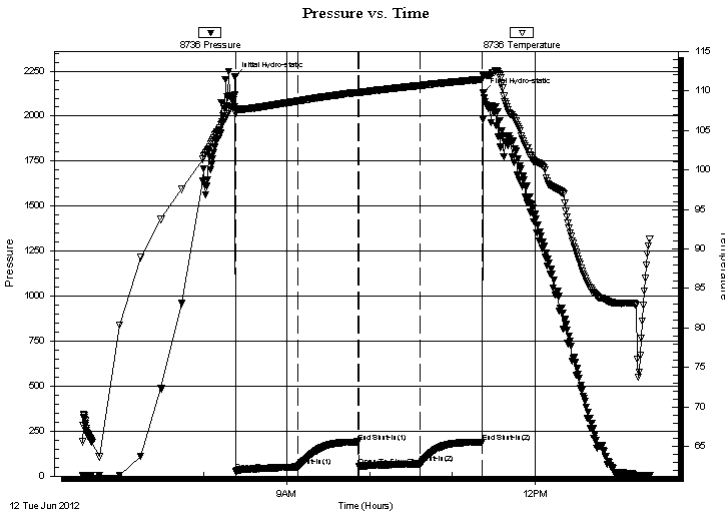
Start Time: 06:32:05 End Time: 13:23:14

Time On Btm: 2012.06.12 @ 08:22:30

Time Off Btm: 2012.06.12 @ 11:22:29

TEST COMMENT: IF:BOB in 37 min.
IS:No return blow
FF:BOB in 23 min.
FS:Return blow built to a weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2218.11	108.03	Initial Hydro-static
1	25.58	107.11	Open To Flow (1)
46	52.11	108.70	Shut-In(1)
90	190.29	109.80	End Shut-In(1)
90	52.40	109.77	Open To Flow (2)
135	68.80	110.66	Shut-In(2)
180	188.96	111.45	End Shut-In(2)
180	2130.98	112.09	Final Hydro-static

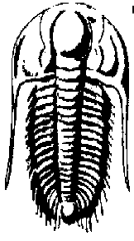
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 62	0.00
120.00	mcgo 10%m 20%g 70%o	0.59

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

30-21s-33w Finney, KS

L Maune #6

Job Ticket: 48377

DST#: 3

Test Start: 2012.06.12 @ 06:32:05

GENERAL INFORMATION:

Formation: **Pawnee-Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:23:00

Time Test Ended: 13:23:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4357.00 ft (KB) To 4406.00 ft (KB) (TVD)

Total Depth: 4406.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2905.00 ft (KB)

2895.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668 Outside

Press @ Run Depth: psig @ 4368.00 ft (KB)

Start Date: 2012.06.12

End Date:

2012.06.12

Start Time: 06:32:01

End Time:

13:23:31

Capacity: 8000.00 psig

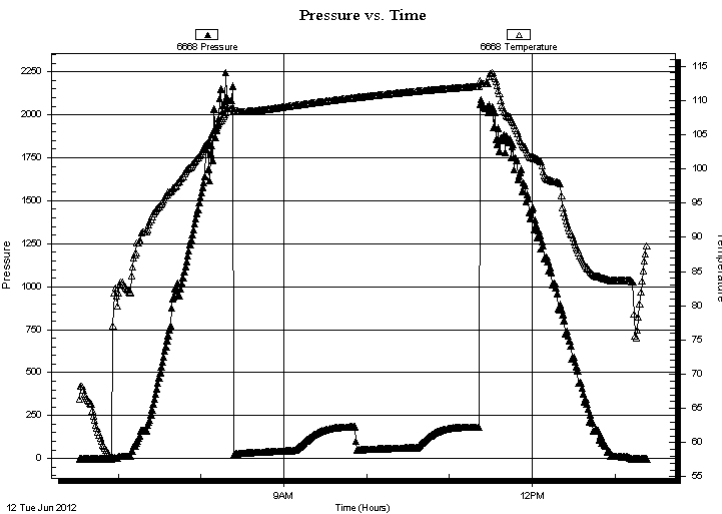
Last Calib.:

2012.06.12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 37 min.
IS:No return blow
FF:BOB in 23 min.
FS:Return blow built to a weak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 62	0.00
120.00	mcgo 10%m 20%g 70%o	0.59

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.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 48377

DST#: 3

Test Start: 2012.06.12 @ 06:32:05

Tool Information

Drill Pipe:	Length: 4048.00 ft	Diameter: 3.80 inches	Volume: 56.78 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4357.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 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			4338.00	
Shut In Tool	5.00			4343.00	
Hydraulic tool	5.00			4348.00	
Packer	5.00			4353.00	20.00 Bottom Of Top Packer
Packer	4.00			4357.00	
Stubb	1.00			4358.00	
Perforations	10.00			4368.00	
Recorder	0.00	8736	Inside	4368.00	
Recorder	0.00	6668	Outside	4368.00	
Change Over Sub	1.00			4369.00	
Drill Pipe	31.00			4400.00	
Change Over Sub	1.00			4401.00	
Bullnose	5.00			4406.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 48377

DST#: 3

Test Start: 2012.06.12 @ 06:32:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 0.00 in³

Resistivity: 0.00 ohm.m

Salinity: 3600.00 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
0.00	GIP= 62	0.000
120.00	mcgo 10%m 20%g 70%o	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

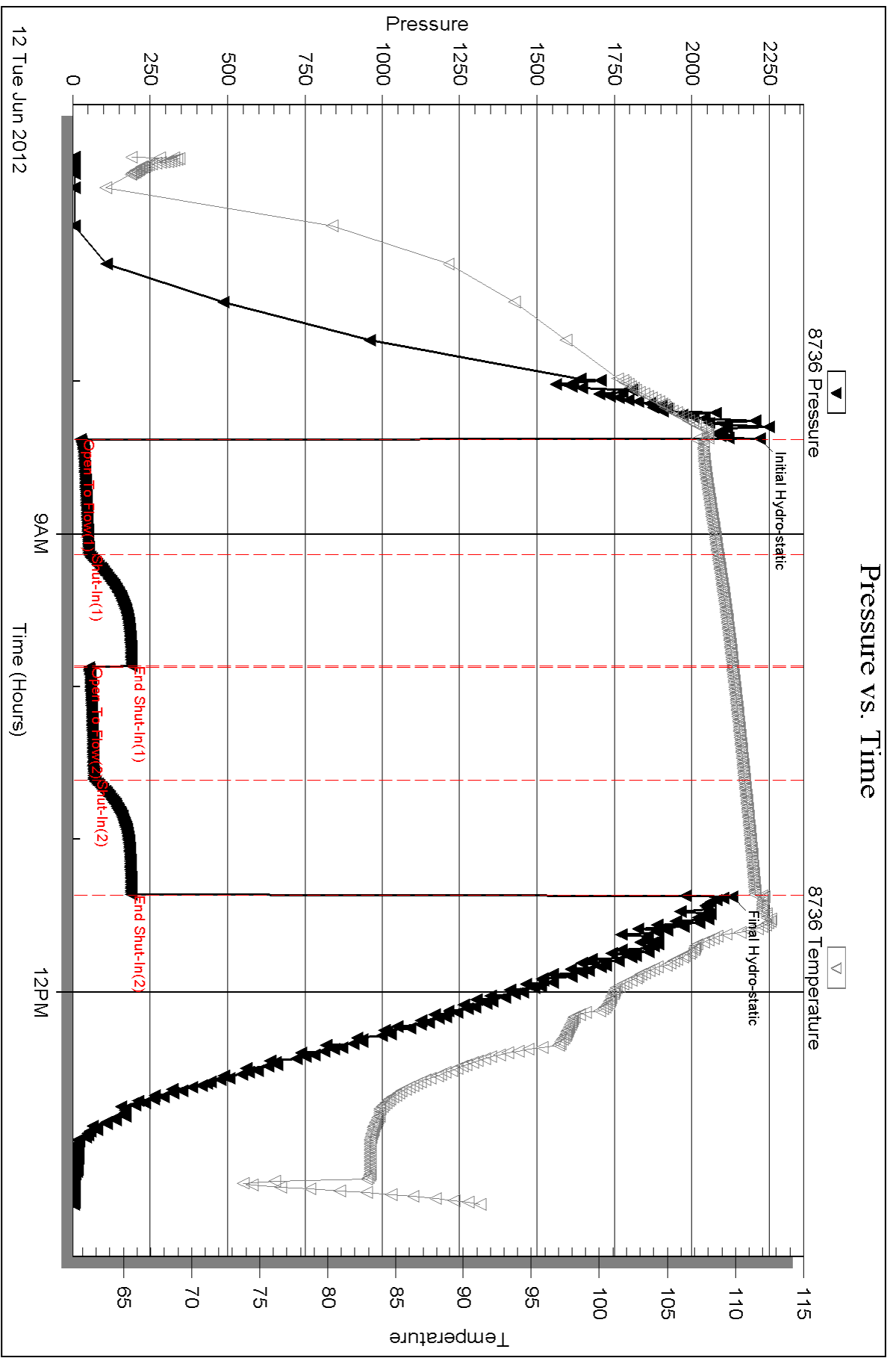
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

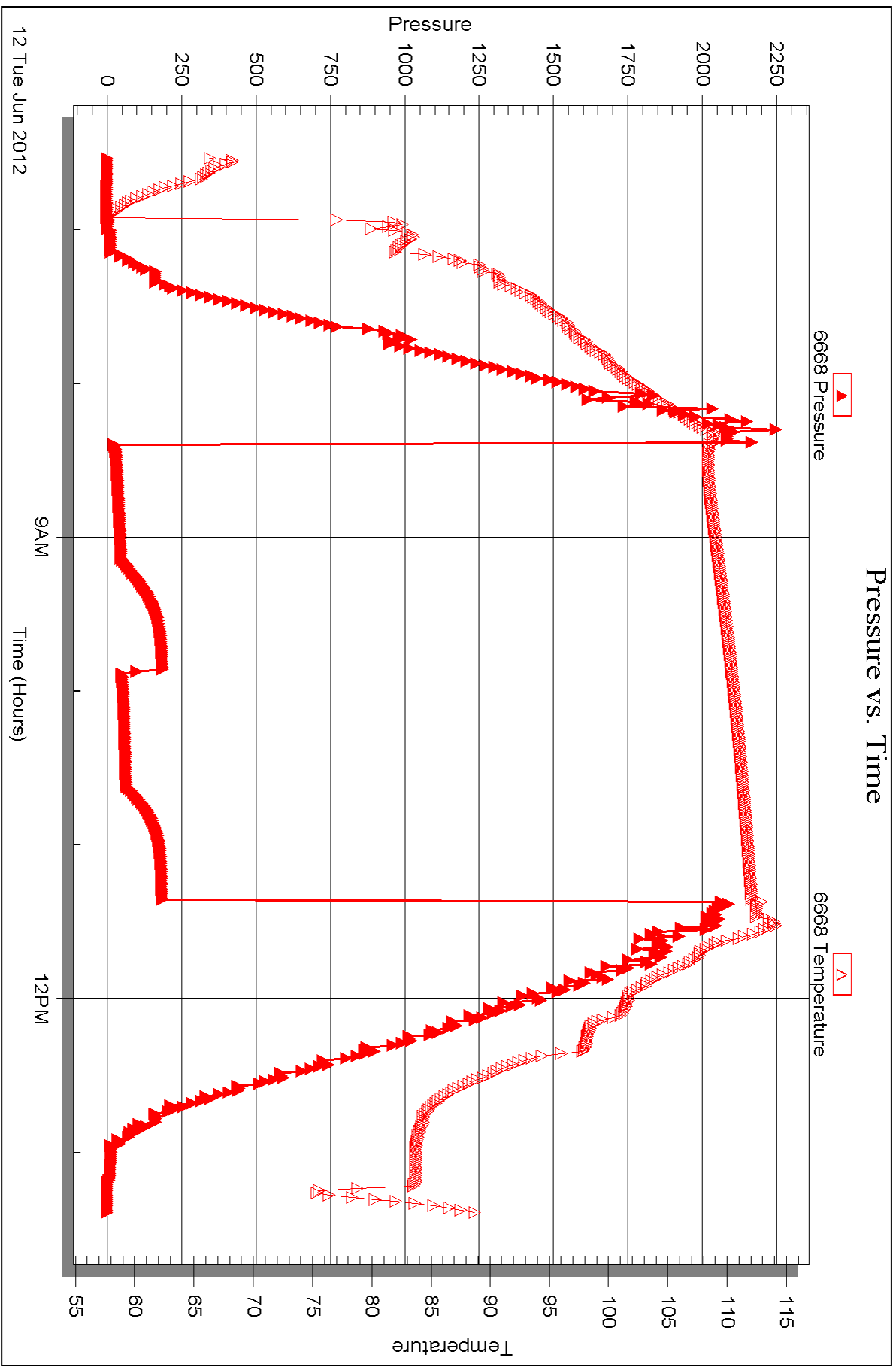


Serial #: 6668

Outside Hartman Oil Co.

L Maure #6

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E. Berkeley SQ
Pkyw Ste 100
Wichita KS 67206

ATTN: Kitt Noah

L Maune #6

30-21s-33w Finney,KS

Start Date: 2012.06.13 @ 11:52:05

End Date: 2012.06.13 @ 17:49:29

Job Ticket #: 48378 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.15 @ 15:15:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

30-21s-33w Finney,KS

L Maune #6

Job Ticket: 48378

DST#: 4

Test Start: 2012.06.13 @ 11:52:05

GENERAL INFORMATION:

Formation: **Morrow.-St. Geneviev**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:15

Time Test Ended: 17:49:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4572.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8736

Inside

Press @ Run Depth: 29.78 psig @ 4582.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.13

End Date:

2012.06.13

Last Calib.:

2012.06.13

Start Time:

11:52:05

End Time:

17:49:29

Time On Btm:

2012.06.13 @ 13:46:00

Time Off Btm:

2012.06.13 @ 15:46:00

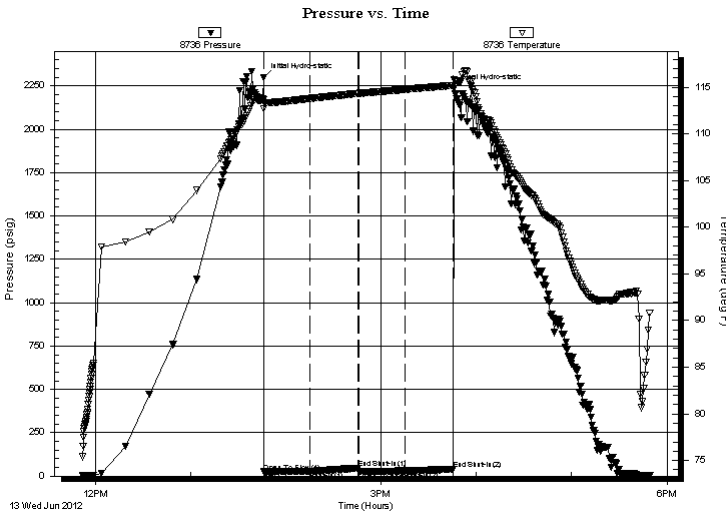
TEST COMMENT: IF:1/4" blow died in 20 min.

IS:No return blow

FF:No blow

FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.27	113.65	Initial Hydro-static
1	24.62	112.67	Open To Flow (1)
29	27.72	113.79	Shut-In(1)
60	46.05	114.33	End Shut-In(1)
60	28.95	114.34	Open To Flow (2)
89	29.78	114.77	Shut-In(2)
120	39.91	115.20	End Shut-In(2)
120	2233.88	115.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil spots	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Hartman Oil Co.

30-21s-33w Finney, KS

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

L Maune #6

Job Ticket: 48378

DST#: 4

Test Start: 2012.06.13 @ 11:52:05

GENERAL INFORMATION:

Formation: **Morrow.-St. Geneviev**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:15

Time Test Ended: 17:49:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4572.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 2905.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 6668 Outside

Press @ Run Depth: psig @ 4582.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.13

End Date:

2012.06.13

Last Calib.:

2012.06.13

Start Time: 11:52:01

End Time:

17:49:43

Time On Btm:

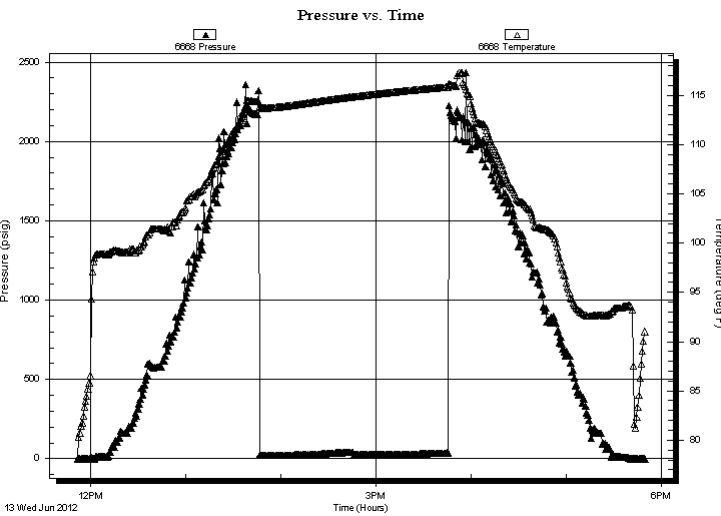
Time Off Btm:

TEST COMMENT: IF: 1/4" blow died in 20 min.

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil spots	0.02

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.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 48378

DST#: 4

Test Start: 2012.06.13 @ 11:52:05

Tool Information

Drill Pipe:	Length: 4268.00 ft	Diameter: 3.80 inches	Volume: 59.87 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 61.39 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4572.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	68.00 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			4553.00	
Shut In Tool	5.00			4558.00	
Hydraulic tool	5.00			4563.00	
Packer	5.00			4568.00	20.00 Bottom Of Top Packer
Packer	4.00			4572.00	
Stubb	1.00			4573.00	
Perforations	9.00			4582.00	
Recorder	0.00	8736	Inside	4582.00	
Recorder	0.00	6668	Outside	4582.00	
Change Over Sub	1.00			4583.00	
Drill Pipe	31.00			4614.00	
Change Over Sub	1.00			4615.00	
Bullnose	5.00			4620.00	48.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co.

30-21s-33w Finney,KS

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

L Maune #6

Job Ticket: 48378

DST#: 4

Test Start: 2012.06.13 @ 11:52:05

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: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud w ith oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

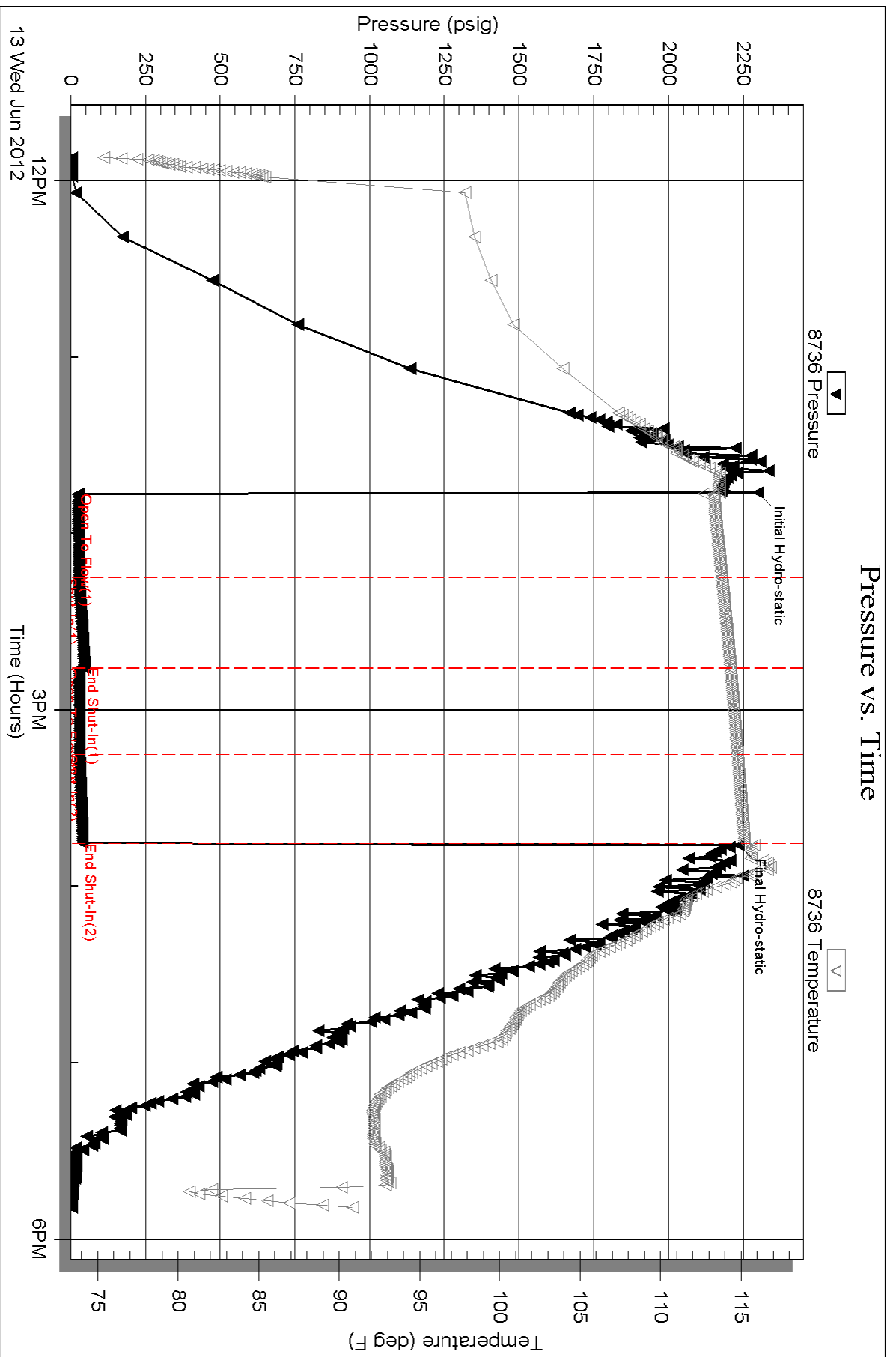
Serial #: 8736

Inside

Hartman Oil Co.

L Maune #6

DST Test Number: 4

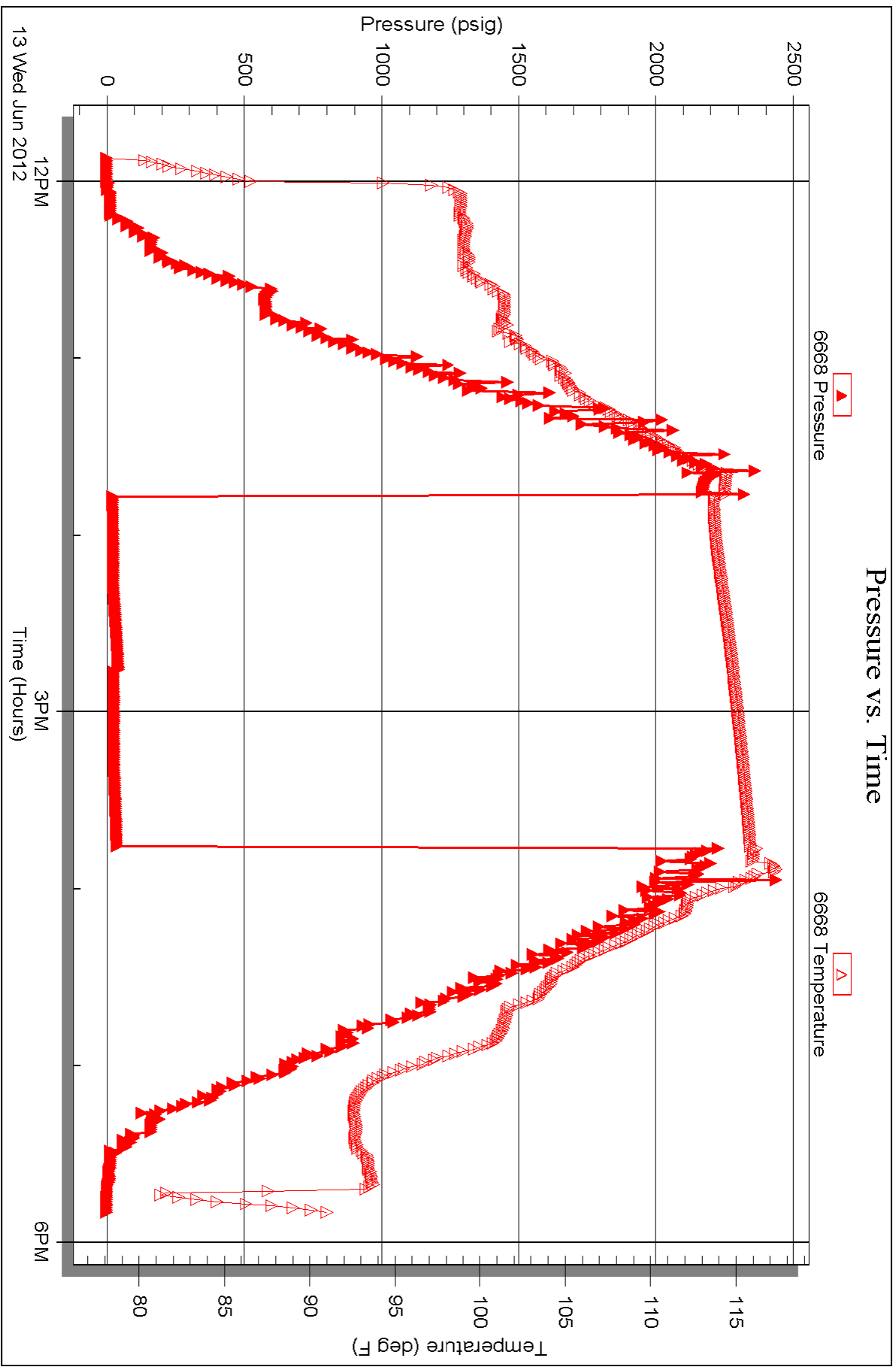


Serial #: 6668

Outside Hartman Oil Co.

L Maure #6

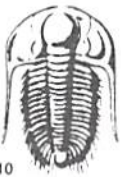
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 48378

Printed: 2012.06.15 @ 15:15:19



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46575

Well Name & No. Q' Maune #6 Test No. 1 Date 6-9-12
 Company Hartman Oil Co. Elevation 2905 KB 2895 GL
 Address 10500 E Berkeley SQ PKWY STE 100 Wichita KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig #3
 Location: Sec. 30 Twp. 21S Rge. 33W Co. Finney State KS

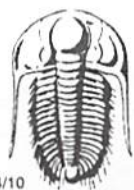
Interval Tested 4034-4066 Zone Tested LKC "I"
 Anchor Length 32' Drill Pipe Run 3735 Mud Wt. 9.1
 Top Packer Depth 4030 Drill Collars Run 309' Vis 46
 Bottom Packer Depth 4034 Wt. Pipe Run 0 WL 80
 Total Depth 4066 Chlorides 2300 ppm System LCM 2
 Blow Description IF: BOB in 1 Min
FS: No Return Blow
FF: BOB in 1 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>MCO</u>	<u>95</u>		<u>5</u>	
<u>494</u>	<u>WCOM</u>	<u>30</u>	<u>20</u>	<u>50</u>	
<u>248</u>	<u>MCO W</u>	<u>20</u>	<u>75</u>	<u>5</u>	
<u>496</u>	<u>OCW</u>	<u>10</u>	<u>90</u>		
<u>309</u>	<u>SW</u>		<u>100</u>		

Rec Total 1639 BHT 114 Gravity — API RW .448 @ 68.4 °F Chlorides 15,000 ppm
 (A) Initial Hydrostatic 1954 Test 1250 1250.00 T-On Location 18:05
 (B) First Initial Flow 93 Jars _____ T-Started 20:48
 (C) First Final Flow 559 Safety Joint _____ T-Open 23:50
 (D) Initial Shut-In 974 Circ Sub _____ T-Pulled 01:50
 (E) Second Initial Flow 566 Hourly Standby 2h 200 T-Out 06:01
 (F) Second Final Flow 771 Mileage SDRT = 77.50 Comments _____
 (G) Final Shut-In 968 Sampler _____
 (H) Final Hydrostatic 1905 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 1527.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1527.50 #1327.50/-

Approved By Kitt Noah Our Representative Mike Roberts

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48376

Well Name & No. L-Mauve #6 Test No. 2 Date 6-10-12
 Company Hartman Oil Co. Elevation 2905 KB 2895 GL
 Address 10500 E Berkeley SQ PKWY STE 100 Wichita KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig #3
 Location: Sec. 30 Twp. 21S Rge. 33W Co. Finney State KS

Interval Tested 4223-4254 Zone Tested LKC "L"
 Anchor Length 31 Drill Pipe Run 3924 Mud Wt. 8.9
 Top Packer Depth 4219 Drill Collars Run 309 Vis 48
 Bottom Packer Depth 4223 Wt. Pipe Run Ø WL 8.8
 Total Depth 4254 Chlorides 3400 ppm System LCM 2

Blow Description IF: Built to BOB in 13 Min
IS: Return Blow Built to weak surface Blow
FF: Built to BOB in 15 Min.
FS: Return Blow Built to weak surface Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>Ø</u>	<u>GIP = 62'</u>	<u>100</u>			
<u>30</u>	<u>Free oil</u>		<u>100</u>		
<u>32</u>	<u>meqo</u>	<u>10</u>	<u>80</u>		<u>10</u>
<u>310</u>	<u>gcomw</u>	<u>5</u>	<u>5</u>	<u>45</u>	<u>45</u>
<u>186</u> <u>124</u>	<u>gcomw</u> <u>sw</u>	<u>5</u>	<u>5</u>	<u>30</u>	<u>60</u>

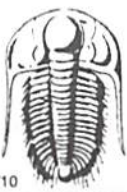
Rec Total BHT 116 Gravity 29 API RW .309 @ 63.9° F Chlorides 25000 ppm

(A) Initial Hydrostatic 2085 Test 1250.00/- T-On Location 22:45
 (B) First Initial Flow 25 Jars T-Started 23:53
 (C) First Final Flow 197 Safety Joint T-Open 02:23
 (D) Initial Shut-In 1056 Circ Sub T-Pulled 05:23
 (E) Second Initial Flow 198 Hourly Standby T-Out 08:27
 (F) Second Final Flow 316 Mileage 50 = 77.50/- Comments _____
 (G) Final Shut-In 1052 Sampler _____
 (H) Final Hydrostatic 2043 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 0
 Total 1327.50
 MP/DST Disc't _____

Approved By Kitt Noah Our Representative Mike Rath

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48377

Well Name & No. L-Mauve #6 Test No. 3 Date 6-12-12
 Company Hartman Oil Co. Elevation 2905 KB 2895 GL
 Address 10500 E. Berkeley SQ PKWY STE 100 Wichita KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig #3
 Location: Sec. 30 Twp. 21S Rge. 33W Co. Finney State KS

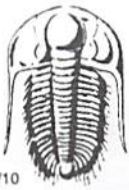
Interval Tested 4357-4406 Zone Tested Pawnee-Ft. Scott
 Anchor Length 49' Drill Pipe Run 4048 Mud Wt. 9.3
 Top Packer Depth 4353 Drill Collars Run 309 Vis 52
 Bottom Packer Depth 4357 Wt. Pipe Run ∅ WL 8.8.
 Total Depth 4406 Chlorides 3600 ppm System LCM 1
 Blow Description IF: BOB in 37 Min
IS: No Return Blow
FF: BOB in 23 Min
FS: Return Blow Built to a weak Surface Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>∅</u>	<u>62' GIP</u>	<u>100</u>			
<u>120</u>	<u>gpm mcgo</u>	<u>20</u>	<u>70</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 Total 120 BHT 111 Gravity / API RW / @ / °F Chlorides / ppm
 (A) Initial Hydrostatic 2218 Test 1250.00 T-On Location 05:30
 (B) First Initial Flow 25 Jars T-Started 06:32
 (C) First Final Flow 52 Safety Joint NC T-Open 08:23
 (D) Initial Shut-In 190 Circ Sub T-Pulled 11:23
 (E) Second Initial Flow 52 Hourly Standby T-Out 13:23
 (F) Second Final Flow 68 Mileage SORT = 77.50 Comments _____
 (G) Final Shut-In 188 Sampler _____
 (H) Final Hydrostatic 2130 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility 1327.50 Sub Total 0
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1327.50
 MP/DST Disc't _____

Approved By Kitt Noah Our Representative Mike Roberts

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48378

Well Name & No. L-Maune #6 Test No. 4 Date 6-13-12
 Company Hartman Oil Co. Elevation 2905 KB 2895 GL
 Address 10500 E. Berkeley SQ PKWY STE 100 Wichita KS 67206
 Co. Rep / Geo. Kitt Noah Rig H2 Rig #3
 Location: Sec. 30 Twp. ~~30S~~ 25 Rge. 33W Co. Finney State KS

Interval Tested 4572-4620 Zone Tested Mrw - St - Gren
 Anchor Length 48 Drill Pipe Run 4268 Mud Wt. 9.2
 Top Packer Depth 4568 Drill Collars Run 309 Vis 60
 Bottom Packer Depth ~~4620~~ 4572 Wt. Pipe Run Ø WL 8.0
 Total Depth 4620 Chlorides 2000 ppm System LCM 3
 Blow Description IF: 4" Blow died in 20 min
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD with oil spots</u>			<u>100</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 5 BHT 115 Gravity ✓ API RW ✓ @ ✓ ° F Chlorides ✓ ppm

(A) Initial Hydrostatic <u>2298</u>	<input checked="" type="checkbox"/> Test <u>1250.00%</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars	T-Started <u>11:52</u>
(C) First Final Flow <u>27</u>	<input type="checkbox"/> Safety Joint	T-Open <u>13:45</u>
(D) Initial Shut-In <u>46</u>	<input checked="" type="checkbox"/> Circ Sub <u>NL</u>	T-Pulled <u>15:45</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:49</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT = 77.50</u>	Comments
(G) Final Shut-In <u>39</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2233</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1327.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1327.50</u>	

Approved By Kitt Noah Our Representative Mike Roberts

Trilobite Testing Inc. shall not be liable for damaged or 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.