



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1167595

Form ACO-1

June 2009

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
- ☐ Conv. to GSW
- ☐ Plug Back: _____ Plug Back Total Depth _____
- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

☐ Letter of Confidentiality Received

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

1167595

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run ☐ Yes ☐ No

Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
Name Top Datum

CASING RECORD ☐ New ☐ 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

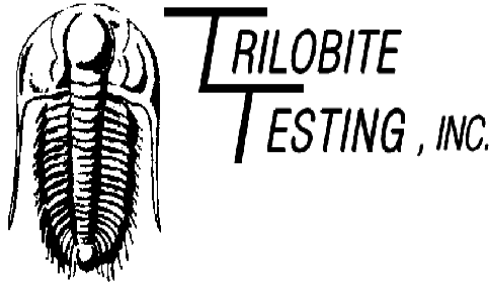
ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	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

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. (Submit ACO-5) ☐ Commingled (Submit ACO-4) ☐ Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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DRILL STEM TEST REPORT

Prepared For: **Habit Petroleum LLC**

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

Regnier #3

2-24s-21w-Hodgeman,KS

Start Date: 2013.05.22 @ 06:08:00

End Date: 2013.05.22 @ 12:55:00

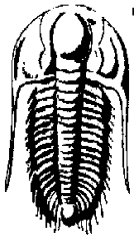
Job Ticket #: 48752 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.29 @ 14:54:07



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum LLC

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

2-24s-21w-Hodgeman,KS

Regnier #3

Job Ticket: 48752

DST#: 1

Test Start: 2013.05.22 @ 06:08:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:00:15

Time Test Ended: 12:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4408.00 ft (KB) To 4482.00 ft (KB) (TVD)

Total Depth: 4482.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2356.00 ft (KB)

2343.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8522 Outside

Press@RunDepth: 28.77 psig @ 4409.00 ft (KB)

Start Date: 2013.05.22

End Date:

2013.05.22

Start Time: 06:08:05

End Time:

12:54:59

Capacity: 8000.00 psig

Last Calib.: 2013.05.22

Time On Btm: 2013.05.22 @ 09:00:00

Time Off Btm: 2013.05.22 @ 10:15:30

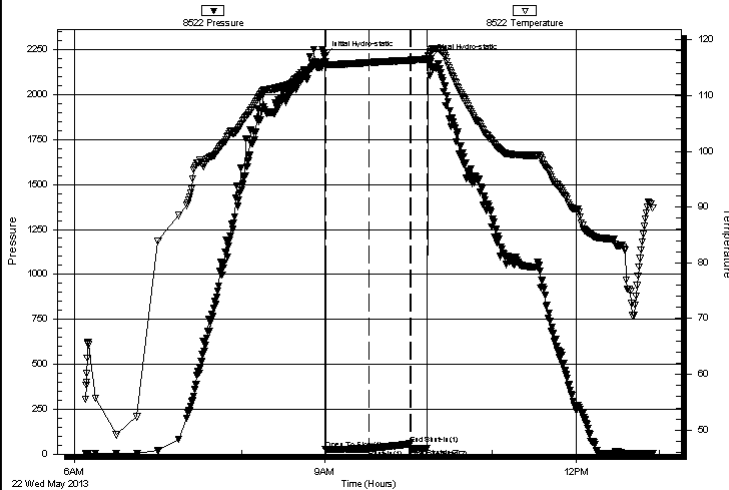
TEST COMMENT: IF: Surface Blow .

IS: No return.

FF: No blow

Flushed tool waited 5 min pulled test.

Pressure vs. Time



PRESSURE SUMMARY

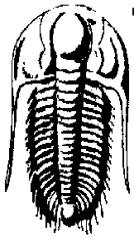
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.85	116.03	Initial Hydro-static
1	26.24	115.28	Open To Flow (1)
32	28.77	115.91	Shut-In(1)
61	56.62	116.33	End Shut-In(1)
62	29.09	116.33	Open To Flow (2)
73	32.01	116.55	Shut-In(2)
76	2199.33	117.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100m (Oil spots in tool)	0.20

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum LLC

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

2-24s-21w-Hodgeman,KS

Regnier #3

Job Ticket: 48752

DST#: 1

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GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:00:15

Time Test Ended: 12:55:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4408.00 ft (KB) To 4482.00 ft (KB) (TVD)

Total Depth: 4482.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2356.00 ft (KB)

2343.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8677 Inside

Press@RunDepth: psig @ 4409.00 ft (KB)

Start Date: 2013.05.22

End Date:

2013.05.22

Start Time: 06:08:05

End Time:

12:53:44

Capacity: 8000.00 psig

Last Calib.:

2013.05.22

Time On Btm:

Time Off Btm:

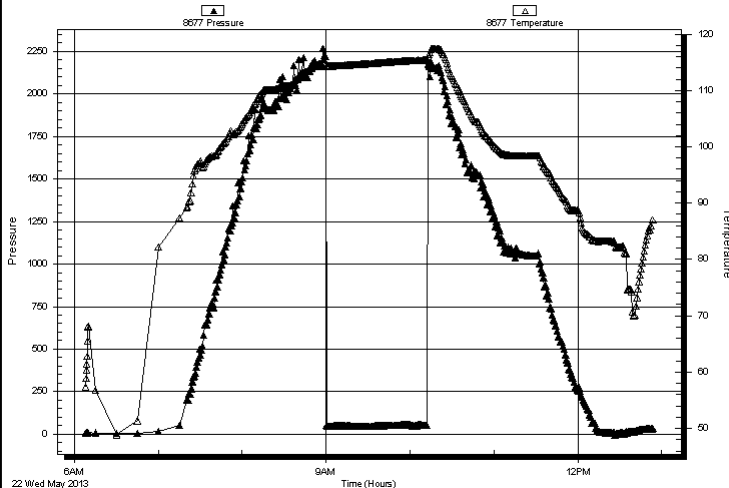
TEST COMMENT: IF: Surface Blow .

IS: No return.

FF: No blow

Flushed tool waited 5 min pulled test.

Pressure vs. Time



PRESSURE SUMMARY

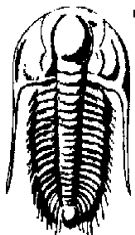
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100m (Oil spots in tool)	0.20

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Habit Petroleum LLC

2-24s-21w-Hodgeman,KS

639 280th Ave.
Hays KS 67601

Regnier #3

Job Ticket: 48752

DST#: 1

ATTN: Al Downing

Test Start: 2013.05.22 @ 06:08:00

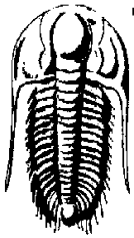
Tool Information

Drill Pipe:	Length:	4396.00 ft	Diameter:	3.20 inches	Volume:	43.73 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	85000.00 lb
					Total Volume:	43.73 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft					String Weight: Initial	60000.00 lb	
Depth to Top Packer:	4408.00 ft					Final	60000.00 lb	
Depth to Bottom Packer:	ft							
Interval between Packers:	74.00 ft							
Tool Length:	101.00 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			4382.00	
Shut In Tool	5.00			4387.00	
Hydraulic tool	5.00			4392.00	
Jars	5.00			4397.00	
Safety Joint	2.00			4399.00	
Packer	5.00			4404.00	27.00 Bottom Of Top Packer
Packer	4.00			4408.00	
Stubb	1.00			4409.00	
Recorder	0.00	8677	Inside	4409.00	
Recorder	0.00	8522	Outside	4409.00	
Perforations	5.00			4414.00	
Change Over Sub	1.00			4415.00	
Drill Pipe	63.00			4478.00	
Change Over Sub	1.00			4479.00	
Bullnose	3.00			4482.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Habit Petroleum LLC

2-24s-21w-Hodgeman,KS

639 280th Ave.
Hays KS 67601

Regnier #3

Job Ticket: 48752

DST#: 1

ATTN: Al Downing

Test Start: 2013.05.22 @ 06:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 10.57 in³

Resistivity: ohm.m

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100m (Oil spots in tool)	0.199

Total Length: 20.00 ft

Total Volume: 0.199 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

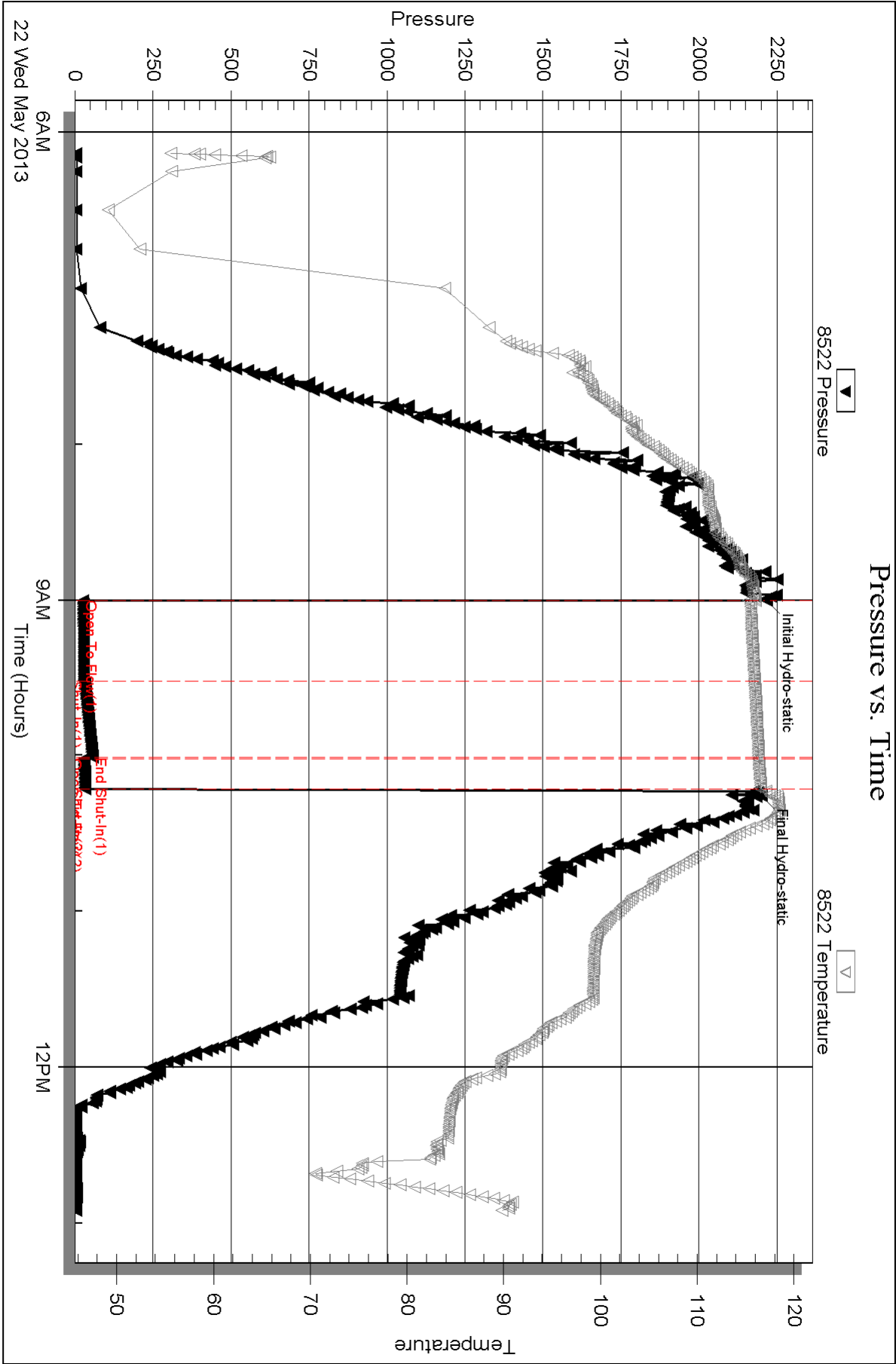
Recovery Comments:

Serial #: 8522

Outside Habit Petroleum LLC

Regin# #3

DST Test Number: 1



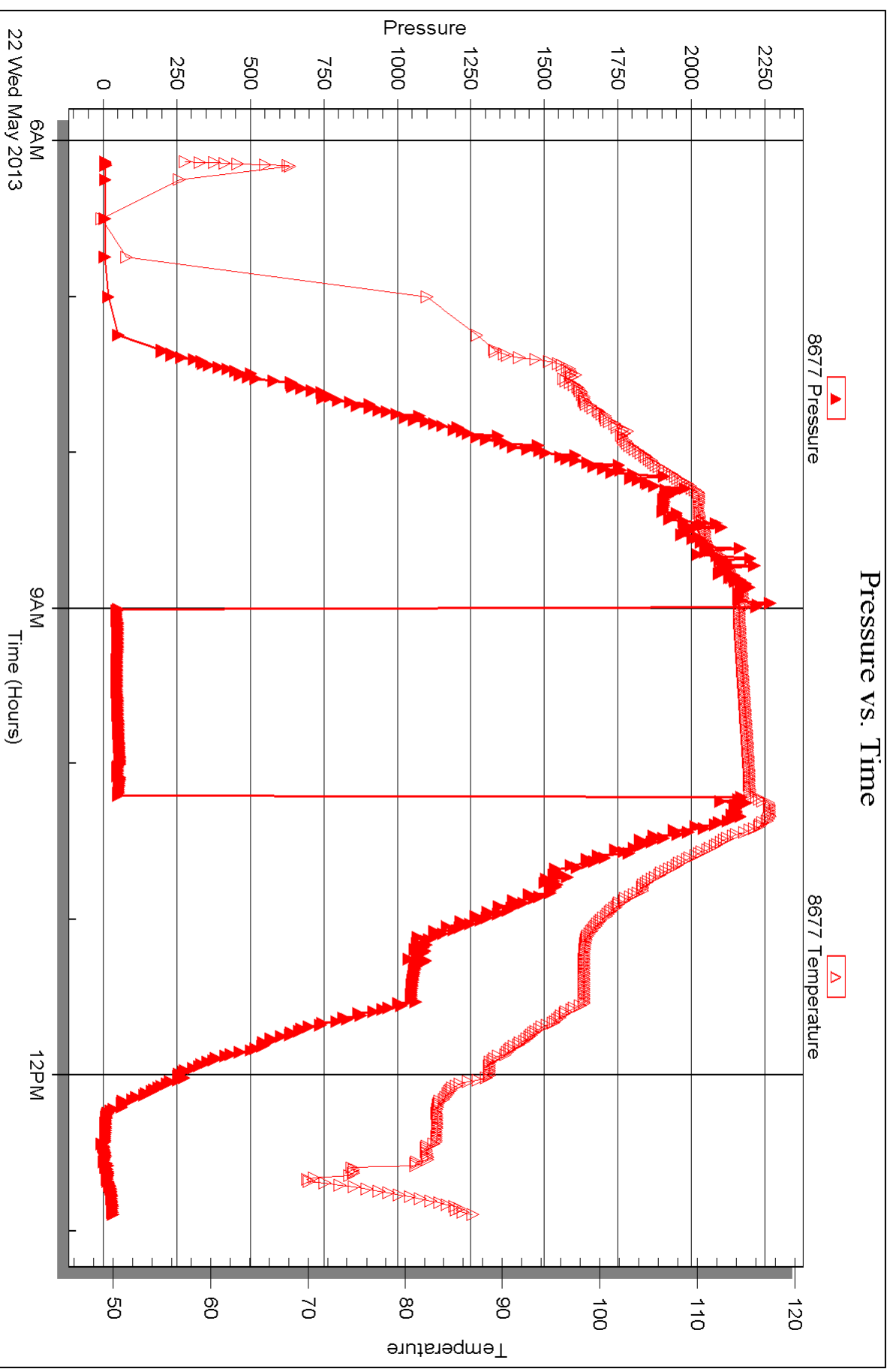
Serial #: 8677

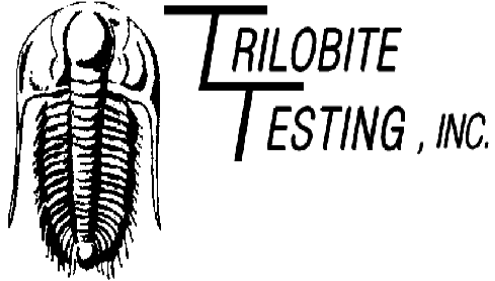
Inside

Habit Petroleum LLC

Regnier #3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Habit Petroleum LLC**

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

Regnier #3

2-24s-21w-Hodgeman,KS

Start Date: 2013.05.23 @ 03:28:00

End Date: 2013.05.23 @ 11:55:45

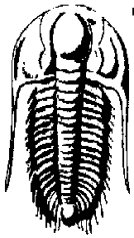
Job Ticket #: 48753 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.29 @ 14:50:34



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum LLC

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

2-24s-21w-Hodgeman,KS

Regnier #3

Job Ticket: 48753

DST#: 2

Test Start: 2013.05.23 @ 03:28:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:49:30

Time Test Ended: 11:55:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4606.00 ft (KB) To 4632.00 ft (KB) (TVD)

Total Depth: 4632.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2356.00 ft (KB)

2343.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8522 Outside

Press@RunDepth: 132.20 psig @ 4607.00 ft (KB)

Start Date: 2013.05.23

End Date:

2013.05.23

Start Time: 03:28:05

End Time:

11:55:44

Capacity: 8000.00 psig

Last Calib.: 2013.05.23

Time On Btm: 2013.05.23 @ 05:48:30

Time Off Btm: 2013.05.23 @ 09:20:30

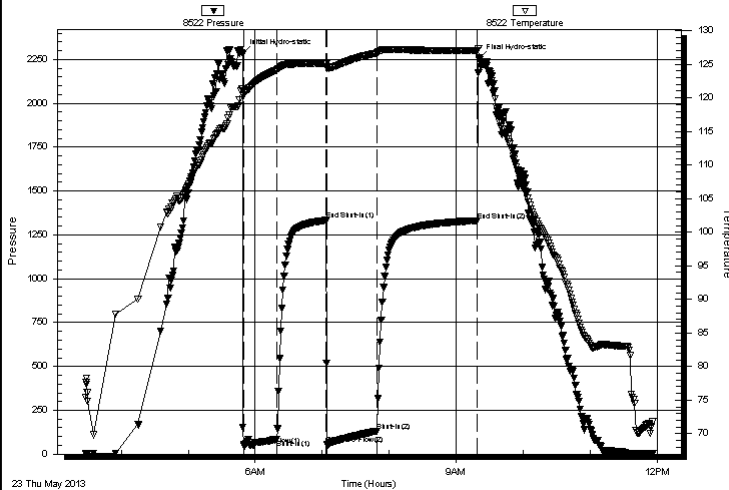
TEST COMMENT: IF-BOB @ 5 sec

ISI-1/2" Return Blow, Gas To Surface On Bleed Off

FF- BOB Immediately starting gauging at 20 min

FSI- Surface return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.63	121.36	Initial Hydro-static
1	51.82	120.29	Open To Flow (1)
31	83.58	124.14	Shut-In(1)
75	1332.99	125.06	End Shut-In(1)
76	54.00	124.41	Open To Flow (2)
121	132.20	126.65	Shut-In(2)
211	1331.85	127.04	End Shut-In(2)
212	2252.40	125.99	Final Hydro-static

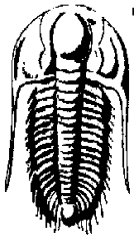
Recovery

Length (ft)	Description	Volume (bbl)
155.00	mcw 30m 70w	1.54
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.00	11.00
Last Gas Rate	0.13	28.00	15.87
Max. Gas Rate	0.13	28.00	15.87

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum LLC

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

2-24s-21w-Hodgeman,KS

Regnier #3

Job Ticket: 48753

DST#: 2

Test Start: 2013.05.23 @ 03:28:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:49:30

Time Test Ended: 11:55:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4606.00 ft (KB) To 4632.00 ft (KB) (TVD)

Total Depth: 4632.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2356.00 ft (KB)

2343.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8677 Inside

Press@RunDepth: psig @ 4607.00 ft (KB)

Start Date: 2013.05.23

End Date:

2013.05.23

Start Time: 03:28:05

End Time:

11:54:14

Capacity: 8000.00 psig

Last Calib.:

2013.05.23

Time On Btm:

Time Off Btm:

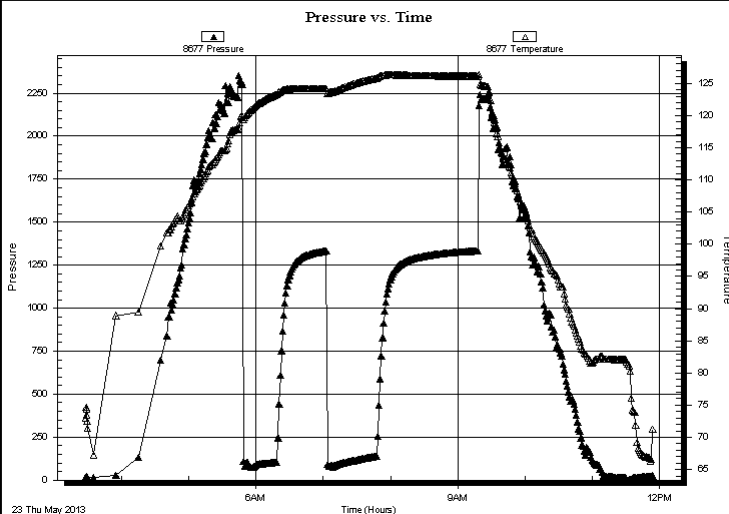
TEST COMMENT: IF-BOB @ 5 sec

ISI-1/2" Return Blow, Gas To Surface On Bleed Off

FF- BOB Immediately starting gauging at 20 min

FSI- Surface return

PRESSURE SUMMARY



Time
(Min.)

Pressure
(psig)

Temp
(deg F)

Annotation

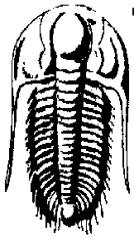
Recovery

Length (ft)	Description	Volume (bbl)
155.00	mcw 30m 70w	1.54
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.00	11.00
Last Gas Rate	0.13	28.00	15.87
Max. Gas Rate	0.13	28.00	15.87

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Habit Petroleum LLC

2-24s-21w-Hodgeman,KS

639 280th Ave.
Hays KS 67601

Regnier #3

Job Ticket: 48753

DST#: 2

ATTN: Al Downing

Test Start: 2013.05.23 @ 03:28:00

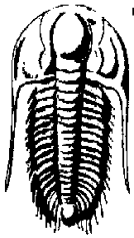
Tool Information

Drill Pipe:	Length:	4587.00 ft	Diameter:	3.20 inches	Volume:	45.63 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	45.63 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight: Initial	62000.00 lb
Depth to Top Packer:		4606.00 ft					Final	63000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		26.00 ft						
Tool Length:		53.00 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			4580.00	
Shut In Tool	5.00			4585.00	
Hydraulic tool	5.00			4590.00	
Jars	5.00			4595.00	
Safety Joint	2.00			4597.00	
Packer	5.00			4602.00	27.00 Bottom Of Top Packer
Packer	4.00			4606.00	
Stubb	1.00			4607.00	
Recorder	0.00	8677	Inside	4607.00	
Recorder	0.00	8522	Outside	4607.00	
Perforations	22.00			4629.00	
Bullnose	3.00			4632.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Habit Petroleum LLC

2-24s-21w-Hodgeman,KS

639 280th Ave.
Hays KS 67601

Regnier #3

Job Ticket: 48753

DST#: 2

ATTN: Al Downing

Test Start: 2013.05.23 @ 03:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 12.37 in³

Resistivity: ohm.m

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

66000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	mcw 30m 70w	1.542
0.00	GTS	0.000

Total Length: 155.00 ft

Total Volume: 1.542 bbl

Num Fluid Samples: 0

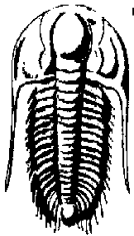
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .110 @ 72F = 66,000ppm



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Habit Petroleum LLC

2-24s-21w-Hodgeman, KS

639 280th Ave.

Hays KS 67601

Regnier #3

Job Ticket: 48753

DST#: 2

ATTN: Al Downing

Test Start: 2013.05.23 @ 03:28:00

Gas Rates Information

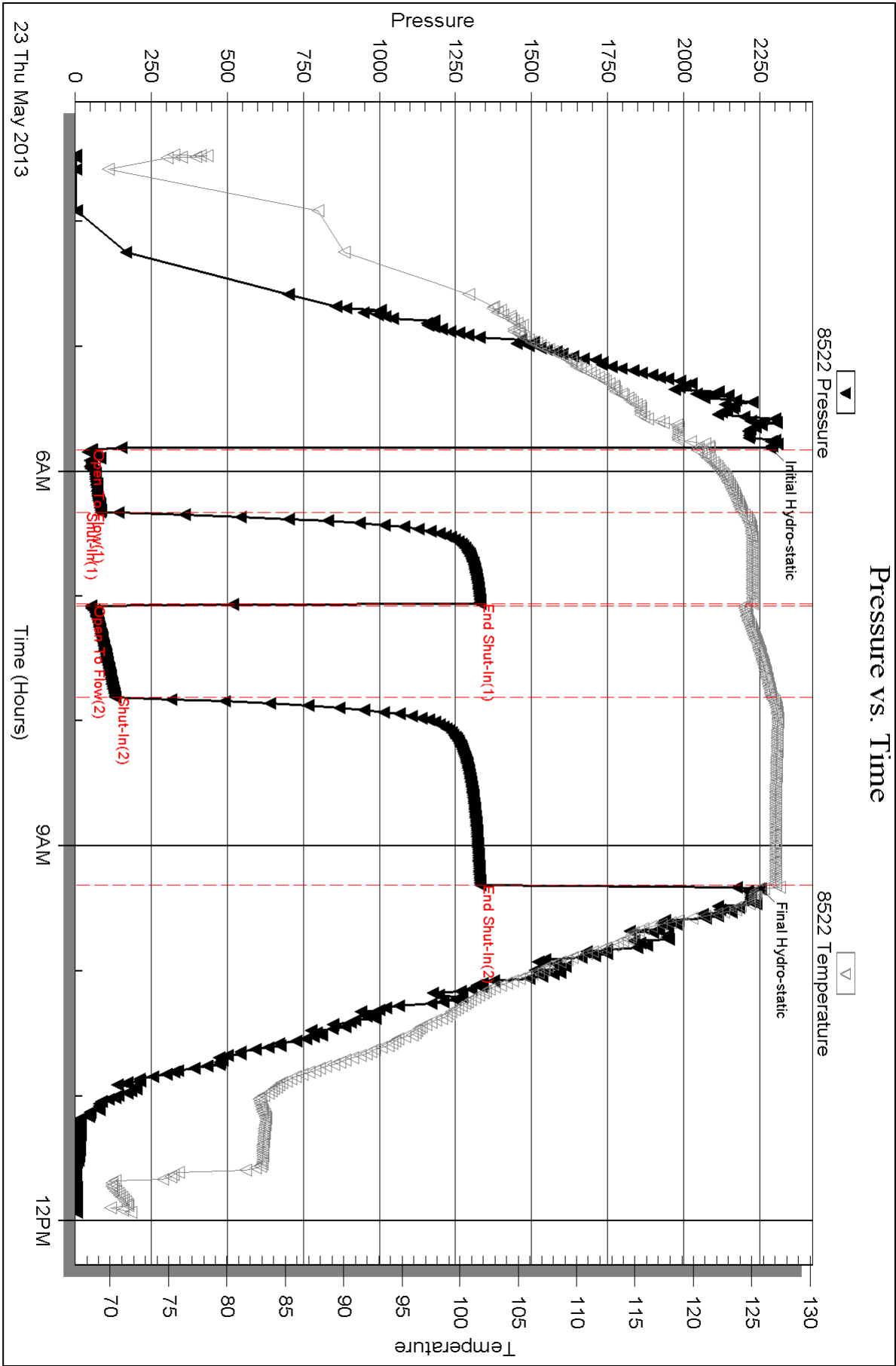
Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.13	15.00	11.00
2	25	0.13	19.00	12.50
2	30	0.13	21.00	13.25
2	35	0.13	23.00	14.00
2	40	0.13	26.00	15.12
2	45	0.13	28.00	15.87



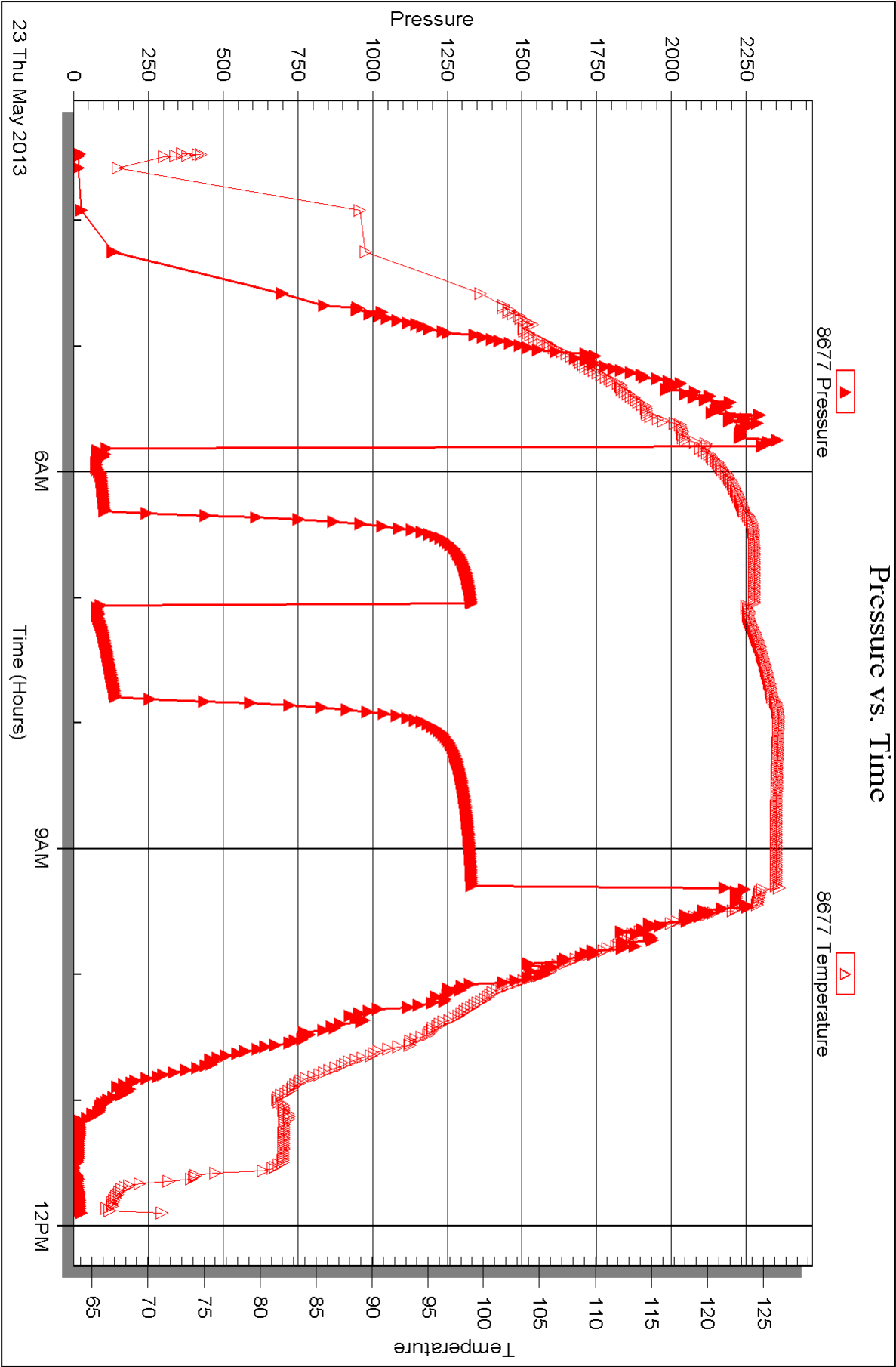
Serial #: 8677

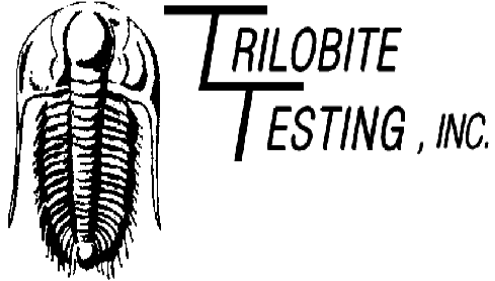
Inside

Habit Petroleum LLC

Regner #3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Habit Petroleum LLC**

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

Regnier #3

2-24s-21w-Hodgeman,KS

Start Date: 2013.05.23 @ 20:37:00

End Date: 2013.05.24 @ 04:48:15

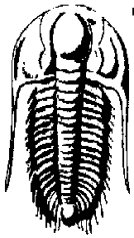
Job Ticket #: 48754 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.29 @ 14:53:30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum LLC

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

2-24s-21w-Hodgeman,KS

Regnier #3

Job Ticket: 48754

DST#: 3

Test Start: 2013.05.23 @ 20:37:00

GENERAL INFORMATION:

Formation: **Osage**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:00

Time Test Ended: 04:48:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4636.00 ft (KB) To 4664.00 ft (KB) (TVD)

Total Depth: 4664.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2356.00 ft (KB)

2343.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8522 Outside

Press@RunDepth: 25.04 psig @ 4637.00 ft (KB)

Start Date: 2013.05.23

End Date:

2013.05.24

Start Time: 20:37:05

End Time:

04:48:14

Capacity: 8000.00 psig

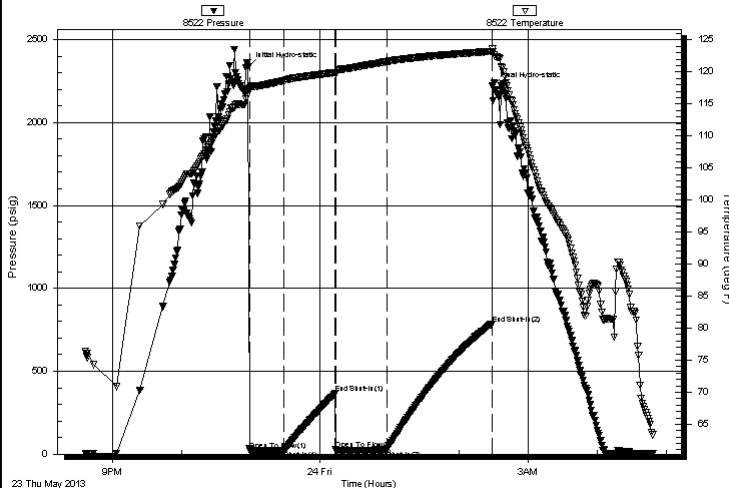
Last Calib.: 2013.05.24

Time On Btm: 2013.05.23 @ 22:58:00

Time Off Btm: 2013.05.24 @ 02:29:15

TEST COMMENT: IF: BOB 2 min
IS: BOB 1 min
FF: BOB Immediately
FS: BOB 1 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.45	117.45	Initial Hydro-static
1	21.31	117.49	Open To Flow (1)
31	20.88	118.65	Shut-In(1)
75	366.31	119.93	End Shut-In(1)
76	25.91	119.79	Open To Flow (2)
120	25.04	121.61	Shut-In(2)
211	785.73	123.22	End Shut-In(2)
212	2219.43	123.69	Final Hydro-static

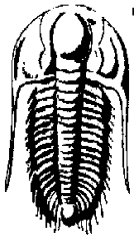
Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m	0.15
0.00	No gas would burn durring test	0.00
0.00	no gas detected durring trip out.	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Habit Petroleum LLC

639 280th Ave.
Hays KS 67601

ATTN: Al Downing

2-24s-21w-Hodgeman,KS

Regnier #3

Job Ticket: 48754

DST#: 3

Test Start: 2013.05.23 @ 20:37:00

GENERAL INFORMATION:

Formation: **Osage**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:00

Time Test Ended: 04:48:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4636.00 ft (KB) To 4664.00 ft (KB) (TVD)

Total Depth: 4664.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2356.00 ft (KB)

2343.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8677 Inside

Press@RunDepth: psig @ 4637.00 ft (KB)

Start Date: 2013.05.23

End Date:

2013.05.24

Start Time: 20:37:05

End Time:

04:46:44

Capacity: 8000.00 psig

Last Calib.:

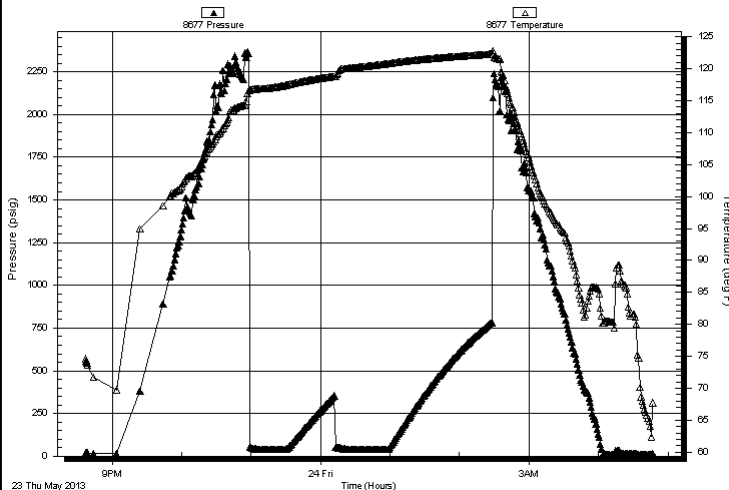
2013.05.24

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB 2 min
IS: BOB 1 min
FF: BOB Immediately
FS: BOB 1 min

Pressure vs. Time



PRESSURE SUMMARY

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

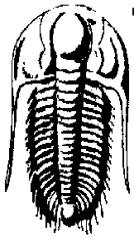
Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m	0.15
0.00	No gas would burn durring test	0.00
0.00	no gas detected durring trip out.	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Habit Petroleum LLC

2-24s-21w-Hodgeman, KS

639 280th Ave.
Hays KS 67601

Regnier #3

Job Ticket: 48754

DST#: 3

ATTN: Al Downing

Test Start: 2013.05.23 @ 20:37:00

Tool Information

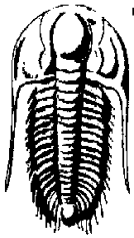
Drill Pipe:	Length:	4618.00 ft	Diameter:	3.20 inches	Volume:	45.94 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	45.94 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		9.00 ft					String Weight: Initial	63000.00 lb
Depth to Top Packer:		4636.00 ft					Final	63000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		28.00 ft						
Tool Length:		55.00 ft						
Number of Packers:		4	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4610.00	
Shut In Tool	5.00			4615.00	
Hydraulic tool	5.00			4620.00	
Jars	5.00			4625.00	
Safety Joint	2.00			4627.00	
Packer	5.00			4632.00	27.00 Bottom Of Top Packer
Packer	4.00			4636.00	
Stubb	1.00			4637.00	
Recorder	0.00	8677	Inside	4637.00	
Recorder	0.00	8522	Outside	4637.00	
Perforations	24.00			4661.00	
Bullnose	3.00			4664.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Habit Petroleum LLC

2-24s-21w-Hodgeman,KS

639 280th Ave.
Hays KS 67601

Regnier #3

Job Ticket: 48754

DST#: 3

ATTN: Al Downing

Test Start: 2013.05.23 @ 20:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 10.78 in³

Resistivity: ohm.m

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m	0.149
0.00	No gas would burn durring test	0.000
0.00	no gas detected durring trip out.	0.000

Total Length: 15.00 ft

Total Volume: 0.149 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

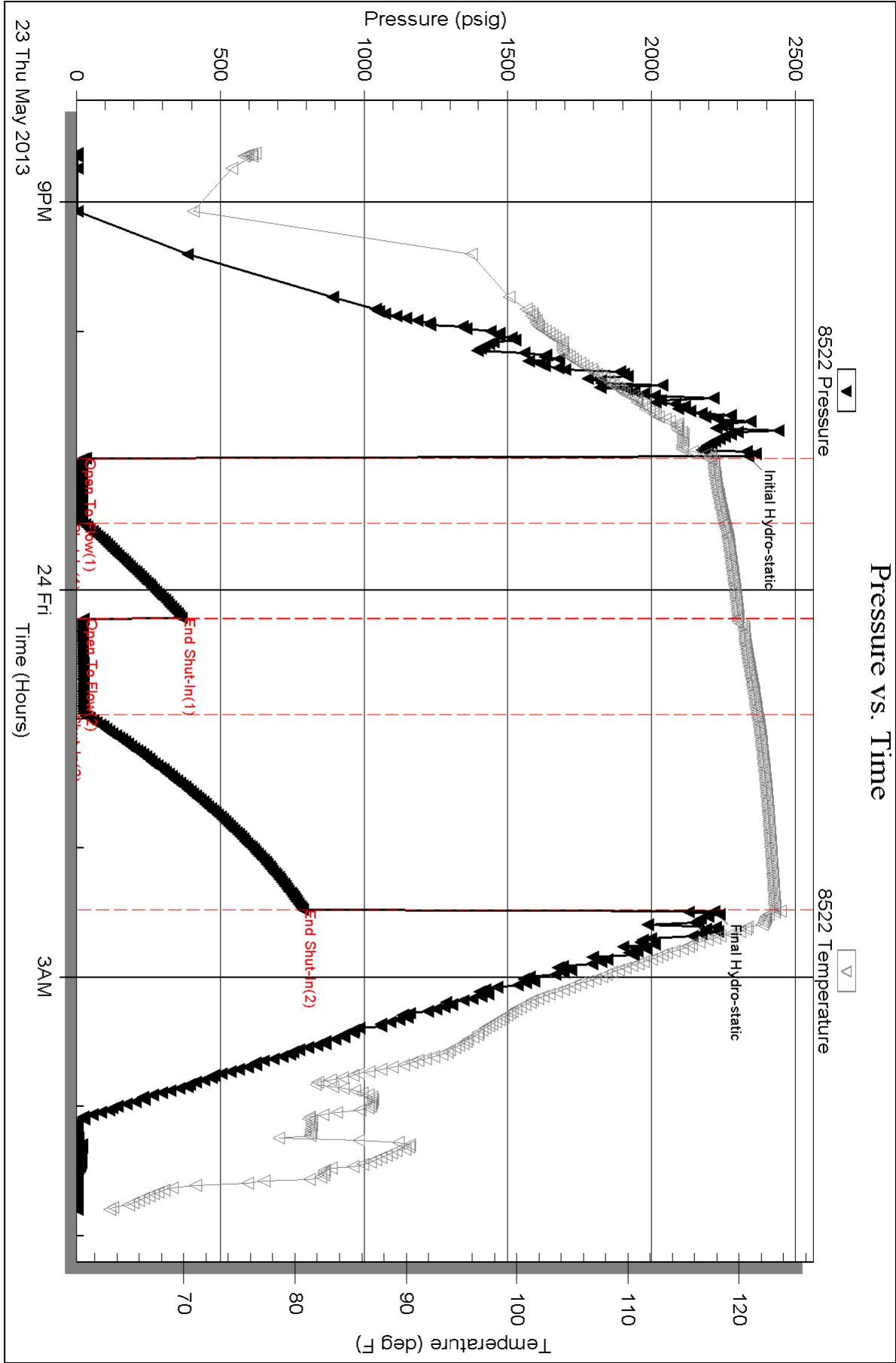
Recovery Comments:

Serial #: 8522

Outside Habit Petroleum LLC

Regin# 3

DST Test Number: 3



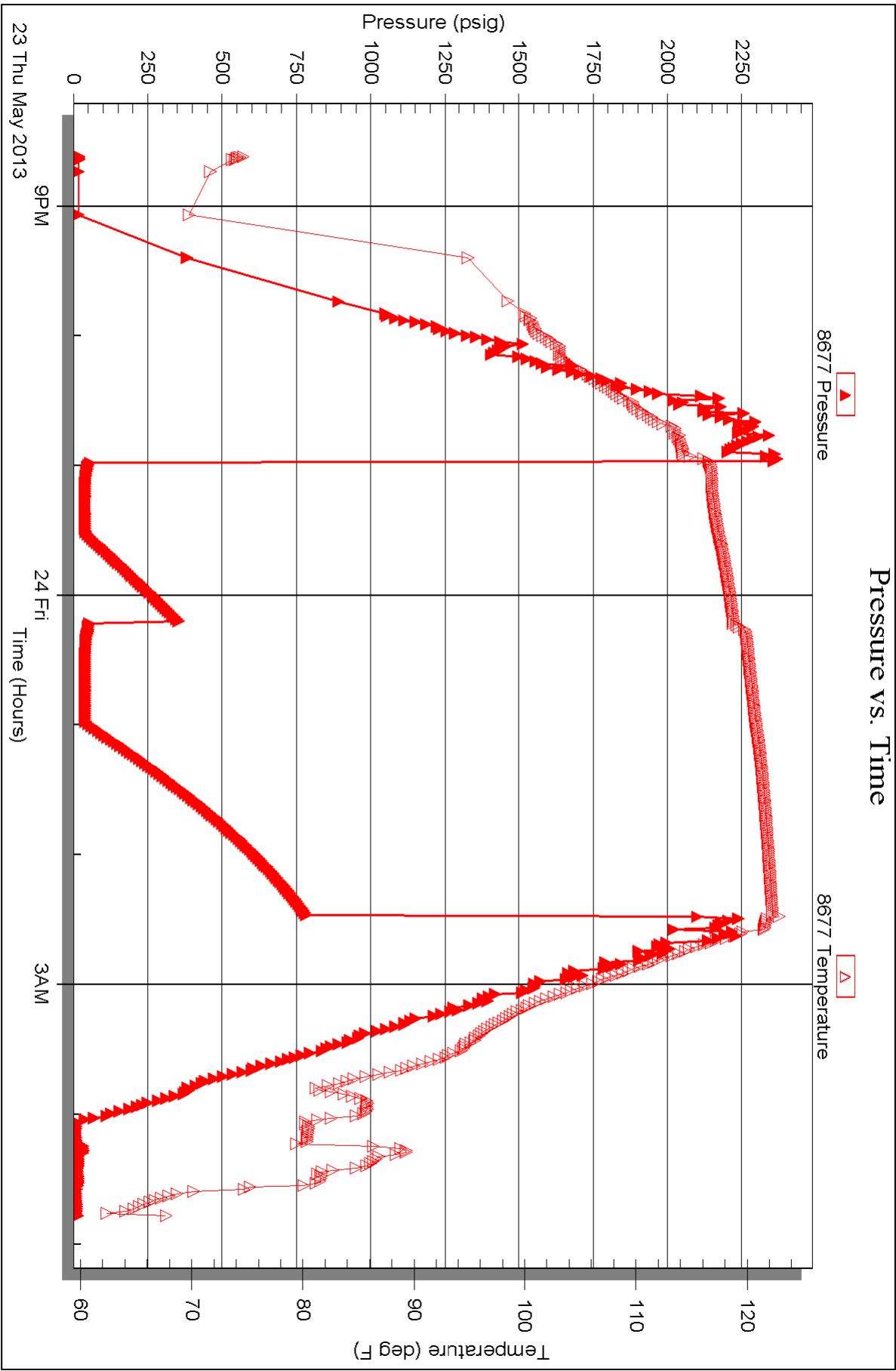
Serial #: 8677

Inside

Habit Petroleum LLC

Regnier #3

DST Test Number: 3





**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **48752**

Well Name & No. Regnier #3 Test No. 1 Date 5-22-13
 Company Habit Petroleum LLC Elevation 2343 KB 2356.00 GL
 Address 639 280th Ave. Hays KS 67601
 Co. Rep / Geo. Allen Downing Rig #101 Minnescah
 Location: Sec. 2 Twp. 24S Rge. 21W Co. Hodgeman State Ks

Interval Tested 4408-4482 Zone Tested Marmaton
 Anchor Length 74' Drill Pipe Run 4396 Mud Wt. 9.2
 Top Packer Depth 4403 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 4408 Wt. Pipe Run ~~60,000~~ 0 WL 10.6
 Total Depth 4482 Chlorides 4800 ppm System LCM 0
 Blow Description IF: Surface Blow
IST: No Return
FF: No Blow - Flushed Tool Pulled Test After 5 min

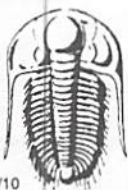
Rec <u>20</u>	Feet of <u>160</u>	<u>100 m</u>	%gas	%oil	%water	%mud
Rec	Feet of	<u>OIL SPOTS in tool</u>	%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud

Rec Total 20 BHT 117 Gravity — API RW —@ —°F Chlorides — ppm
 (A) Initial Hydrostatic 2216 ☒ Test 1250 T-On Location 05:00
 (B) First Initial Flow 26 ☒ Jars 250 T-Started 0608
 (C) First Final Flow 29 ☒ Safety Joint 75 T-Open 0901
 (D) Initial Shut-In 57 ☒ Circ Sub n/c T-Pulled 1012
 (E) Second Initial Flow 29 ☐ Hourly Standby T-Out 1255
 (F) Second Final Flow 32 ☒ Mileage 152rt 235.60 Comments Stayed in
 (G) Final Shut-In N/A ☐ Sampler Kmsley
 (H) Final Hydrostatic 2199 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder Sub Total 0
☐ Day Standby Total 1810.60
☐ Accessibility MP/DST Disc't
 Sub Total 1810.60

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 x Tromac



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48753

Well Name & No. Regnier #3 Test No. 2 Date 5-23-13
 Company Habit Petroleum LLC Elevation 2343 KB 2356 GL
 Address 639 280th Ave Hays KS 67601
 Co. Rep / Geo. Allen Downing Rig Ninnescah #101
 Location: Sec. 2 Twp. 24S Rge. 21W Co. Hodgeman State KS

Interval Tested 4606-4632 Zone Tested Mississippian
 Anchor Length 26' Drill Pipe Run 4587 Mud Wt. 9.4
 Top Packer Depth 4601 Drill Collars Run 0 Vis 45
 Bottom Packer Depth 4606 Wt. Pipe Run _____ WL 12.4
 Total Depth 4632 Chlorides 3300 ppm System LCM 0

Blow Description IF: BOB, 5 sec
ISI: 1/2 Return blow, Gas to surface during bleed off
FF: BOB Immediately, Began gauging @ 20 min
FSI: Began gaug surface return

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>mcw</u>		<u>70</u>	<u>30</u>	
	<u>4430 GIP</u>				

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

(A) Initial Hydrostatic <u>2282</u>	☒ Test <u>1250</u>	T-On Location <u>0200</u>
(B) First Initial Flow <u>52</u>	☒ Jars <u>250</u>	T-Started <u>0328</u>
(C) First Final Flow <u>84</u>	☒ Safety Joint <u>75</u>	T-Open <u>05:44</u>
(D) Initial Shut-In <u>1333</u>	☒ Circ Sub <u>n/c</u>	T-Pulled <u>09:15</u>
(E) Second Initial Flow <u>54</u>	☐ Hourly Standby _____	T-Out <u>1156</u>
(F) Second Final Flow <u>132</u>	☒ Mileage <u>235.60</u>	Comments <u>Stayed in</u>
(G) Final Shut-In <u>1332</u>	☐ Sampler _____	<u>Kinsley</u>
(H) Final Hydrostatic <u>2252</u>	☐ Straddle _____	

Initial Open <u>30</u>	☐ Shale Packer _____	☐ Ruined Shale Packer _____
Initial Shut-In <u>45</u>	☐ Extra Packer _____	☐ Ruined Packer _____
Final Flow <u>45</u>	☐ Extra Recorder _____	☐ Extra Copies _____
Final Shut-In <u>90</u>	☐ Day Standby _____	Sub Total <u>0</u>
	☐ Accessibility _____	Total <u>1810.60</u>
	Sub Total <u>1810.60</u>	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.

Carmelo x Toner



P.O. Box 1733 • Hays, Kansas 67601

Habit Petroleum LLC

Operator

Regnier #3

Well Name and No.

2

DST No.

elapsed time	Second Flow Period
--------------	--------------------

Remarks:

Did Gas burn O_2 or N_2

1 Sample sent to Caraway Analytical Liberal, KS



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48754

Well Name & No. Regnier #3 Test No. 3 Date 5-23-13
 Company Habit Petroleum LLC Elevation 2343 KB 2356 GL
 Address 639 280th Ave Hays, KS 67601
 Co. Rep / Geo. Allen Downing Rig Ninnescah #101
 Location: Sec. 2 Twp. 24S Rge. 21W Co. Hodgeman State KS

Interval Tested 4636-4664 Zone Tested OSage
 Anchor Length 28' Drill Pipe Run 41618 Mud Wt. 9.3
 Top Packer Depth 4631 Drill Collars Run 0 Vis 61
 Bottom Packer Depth 4636 Wt. Pipe Run _____ WL 10.8
 Total Depth 4664 Chlorides 5100 ppm System LCM 0
 Blow Description IF: BOB-2 min
ISI: BOB-1 min
FF: BOB Immediately
F.SI: BOB 1 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
	<u>very slight gassy odor detected</u>				

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

(A) Initial Hydrostatic <u>2337</u>	☒ Test 1250	T-On Location <u>19:10</u>
(B) First Initial Flow <u>21</u>	☒ Jars 250	T-Started <u>20:37</u>
(C) First Final Flow <u>21</u>	☒ Safety Joint 75	T-Open <u>22:58</u>
(D) Initial Shut-In <u>366</u>	☒ Circ Sub <u>nil</u>	T-Pulled <u>02:28</u>
(E) Second Initial Flow <u>26</u>	☐ Hourly Standby _____	T-Out <u>04:48</u>
(F) Second Final Flow <u>25</u>	☒ Mileage 235.60	Comments _____
(G) Final Shut-In <u>786</u>	☐ Sampler _____	
(H) Final Hydrostatic <u>2219</u>	☐ Straddle _____	☐ Ruined Shale Packer _____
	☐ Shale Packer _____	☐ Ruined Packer _____
	☐ Extra Packer _____	☐ Extra Copies _____
Initial Open <u>30</u>	☐ Extra Recorder _____	Sub Total <u>0</u>
Initial Shut-In <u>45</u>	☐ Day Standby _____	Total <u>1810.60</u>
Final Flow <u>45</u>	☐ Accessibility _____	MP/DST Disc't _____
Final Shut-In <u>90</u>	Sub Total <u>1810.60</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.

CORNELIO & Training

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-3651475

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

SERVICE POINT:

Garret Bend, KS

DATE <u>5-24-13</u>	SEC. <u>2</u>	TWP. <u>24S</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 AM</u>	JOB FINISH <u>3:00 PM</u>
LEASE <u>Reynier</u> WELL # <u>3</u>				LOCATION <u>2000 2nd St S. S. 1st</u>		COUNTY <u>Harmon</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Minnesota Drilling #101
TYPE OF JOB Rotary Plug
HOLE SIZE 7 1/2 T.D.
CASING SIZE 4 1/2 DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 1470
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 411
PERFS.
DISPLACEMENT Freshwater
EQUIPMENT

OWNER
CEMENT
AMOUNT ORDERED 250 45 604 100
100 100 4 1/2 1 1/2 1 1/2
COMMON 150
POZMIX 100
GEL 9
CHLORIDE
ASC
2100 63

PUMP TRUCK CEMENTER Jason Chambers
597 HELPER Charles Kinney
BULK TRUCK
609 241 DRIVER Ben McNeil
BULK TRUCK
DRIVER

REMARKS:

6 1/2 Hole with 6 1/2 inch
1. 1470 - 50 45
2. 660 - 50 45
3. 730 - 50 45
4. 60 - 20 45
5. 64 - 30 45
6. 144 - 20 45
Plug Down 2:30 PM

SERVI

DEPTH OF JOB 1470
PUMP TRUCK CHARGE
EXTRA FOOTAGE
MILEAGE Hum 45
MANIFOLD
Hum 45

CHARGE TO: Habit Petroleum
STREET
CITY STATE ZIP

FLIGHT

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 Richard A. Brarige

SIGNATURE X Richard A. Brarige
Thank You!!



PO Box 93999
Southlake, TX 76092

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

116

INVOICE

Invoice Number: 136481

Invoice Date: May 24, 2013

Page: 1

Bill To:

Habit Petroleum
P O Box 243
Hays, KS 67601

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Habit	60439	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	May 24, 2013	6/23/13

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Regnier #3		
100.00	MAT	Class A Common		
9.00	MAT	Pozmix		
63.00	MAT	Gel		
269.20	SER	Flo Seal		
505.35	SER	Cubic Feet		
1.00	SER	Ton Mileage		
45.00	SER	Rotary Plug		
45.00	SER	Pump Truck Mileage		
1.00	SER	Light Vehicle Mileage		
1.00	CEMENTER	Dustin Chambers		
1.00	OPER ASSIST	Charles Kinyon		
1.00	OPER ASSIST	Ben Newell		

Pa. 6345

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

\$ 879.36

ONLY IF PAID ON OR BEFORE

Jun 18, 2013

Subtotal
Sales Tax
Total Invoice
Payment/Cred
TOTAL

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Todd's Cell 620-388-5422

Office / Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	5-17-13	Sec.	2	Twp.	24	Range	21	County	Hodgeman	State	Ks	On Location	2:45 AM	Finish	5:45 AM	
Lease	Reanier	Well No.	43			Location OFFERLE KS 8 N to 6 Rd										
Contractor	Ninnescah Dels							Owner	3 W S. Ho							
Type Job	Surface							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4		T.D.	312			Charge To	Host Petroleum LLC								
Csg.	85/8 23"		Depth	312 3/3			Street									
Log Size			Depth				City	State								
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.			Shoe Joint	20'20			Cement Amount Ordered	175x Common								
Meas Line			Displace	13.7			2% FEL 3% CL 1/4" CF.									

Run 7 H's 85/8 23" Csg

Get 3/10

Common 175

MIX Pump 175x Common

2% FEL 3/10 66 1/4" CF

GEL 3

CL 6

Fluiscal 44

D 15' shut

Handling 175 184

SHUT DOWN

MILEAGE 45

RELEASE 85/8 WOODEN Plug

85/8 WOODEN Plug 1

LMV 45

Dis 13.7 Bbl total

SURFACE 1

MILEAGE 45

Good end this job

Circ CMT TO P.T

Thank, T.O.D.D BRADY DEER MILKE

Please

Call AGAIN

[Signature]

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Todd's Cell 620-388-5422

Office / Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	5-17-13	Sec.	2	Twp.	24	Range	21	County	Hodgeman	State	Ks	On Location	2:45 AM	Finish	5:45 AM
Lease	Reanier	Well No.	43	Location		OFFERLE KS 8 N to 6 Rd									
Contractor	Ninnescah Dels							Owner	3 W S. Ho						
Type Job	Surface							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4		T.D.	312											
Csg.	85/8 23"		Depth	312 3/3											
Log Size			Depth												
Tool			Depth												
Cement Left in Csg.			Shoe Joint	20'20											
Meas Line			Displace	13.7											
				Cement Amount Ordered 175x Common											

Run 7 H's 85/8 23" Csg		2% FEL 34-CL 1/4" CF	
Gel 3/10		Comm 175	
MIX Pump 175x Common		Gel 3	
2% FEL 3/10 66 1/4" CF		CL 6	
D 15' Shut		Fluiscal 44	
SHUT DOWN		Handling 175 184	
RELEASE 85/8 WOODEN Plug		MILEAGE 45	
		LMV 45	
Displ 13.7 Bbl total		SURFACE 1	
		MILEAGE 45	

Good one this one
Circ cut to P.T

Thank, T.O.D.O Brady Devel' Mike

Please
Call AGAIN

[Signature]