



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1155184
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: _____



1155184

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
--	---

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> _____
---	--

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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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 14, 2013

Scott Hampel
McCoy Petroleum Corporation
8080 E CENTRAL STE 300
WICHITA, KS 67206-2366

Re: ACO1
API 15-097-21761-00-00
HILL 'A' #4-23
SW/4 Sec.23-30S-19W
Kiowa County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Scott Hampel



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

8080 E Central Ste 300
Wichita, KS 67206

ATTN: Dave Williams

Hill A #4-23

23-30s-19w Kiowa,KS

Start Date: 2013.06.23 @ 00:57:44

End Date: 2013.06.23 @ 11:21:29

Job Ticket #: 50988 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.26 @ 09:16:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp
 8080 E Central Ste 300
 Wichita, KS 67206
 ATTN: Dave Williams

23-30s-19w Kiowa,KS

Hill A #4-23

Job Ticket: 50988

DST#: 1

Test Start: 2013.06.23 @ 00:57:44

GENERAL INFORMATION:

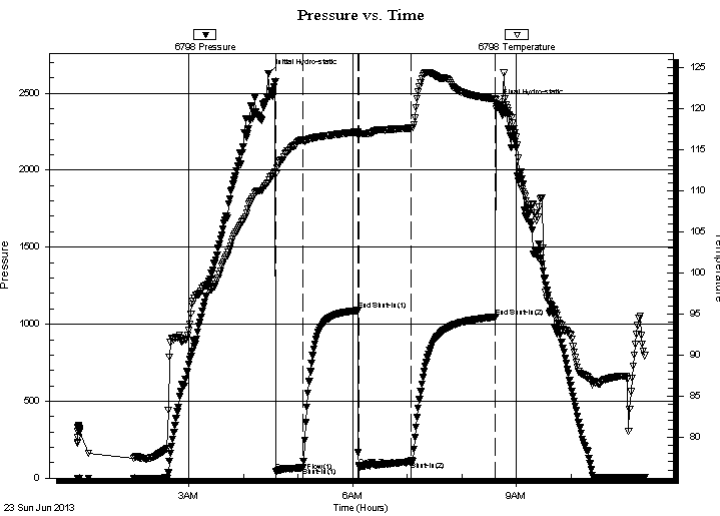
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:35:59
 Time Test Ended: 11:21:29
 Interval: **5064.00 ft (KB) To 5105.00 ft (KB) (TVD)**
 Total Depth: 5105.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 2242.00 ft (KB)
 2231.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 109.13 psig @ 5065.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.23 End Date: 2013.06.23 Last Calib.: 2013.06.23
 Start Time: 00:57:45 End Time: 11:21:29 Time On Btm: 2013.06.23 @ 04:27:14
 Time Off Btm: 2013.06.23 @ 08:37:59

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
 IS: GTS While Bleeding Off, No Blow Back
 FF: Strong Blow , BOB & GTS Immediate, Caught Sample & Gauged With Merla
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2629.09	110.99	Initial Hydro-static
9	44.58	112.08	Open To Flow (1)
39	67.64	116.15	Shut-In(1)
99	1088.55	117.15	End Shut-In(1)
100	74.72	116.80	Open To Flow (2)
157	109.13	117.63	Shut-In(2)
250	1047.23	121.13	End Shut-In(2)
251	2434.53	120.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4791 GIP	0.00
120.00	GSY SOWCM 35%G 2%O 15%W 48%M	0.59
150.00	GCM 5%G 95%M	1.24

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp

23-30s-19w Kiowa,KS

8080 E Central Ste 300
Wichita, KS 67206

Hill A #4-23

Job Ticket: 50988

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.23 @ 00:57:44

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:59

Time Test Ended: 11:21:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: **5064.00 ft (KB) To 5105.00 ft (KB) (TVD)**

Reference Elevations: 2242.00 ft (KB)

Total Depth: 5105.00 ft (KB) (TVD)

2231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: **8367** Outside

Press @ Run Depth: psig @ 5065.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.23

End Date:

2013.06.23

Last Calib.:

2013.06.23

Start Time: 00:57:49

End Time:

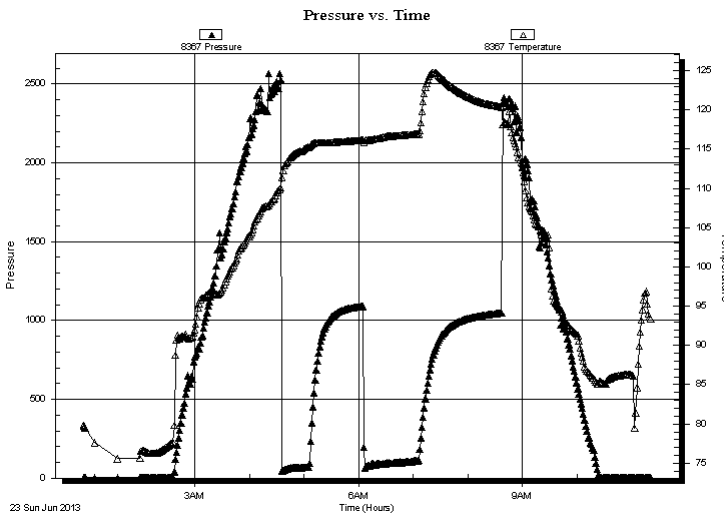
11:21:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
IS: GTS While Bleeding Off, No Blow Back
FF: Strong Blow , BOB & GTS Immediate, Caught Sample & Gauged With Merla
FSI: No Blow Back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4791 GIP	0.00
120.00	GSY SOWCM 35%G 2%O 15%W 48%M	0.59
150.00	GCM 5%G 95%M	1.24

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp
8080 E Central Ste 300
Wichita, KS 67206
ATTN: Dave Williams

23-30s-19w Kiowa,KS
Hill A #4-23
Job Ticket: 50988 **DST#: 1**
Test Start: 2013.06.23 @ 00:57:44

Tool Information

Drill Pipe:	Length: 4846.00 ft	Diameter: 3.80 inches	Volume: 67.98 bbl	Tool Weight: 2100.00 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 69.04 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	5064.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.00 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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Shut In Tool	5.00			5042.00	
Hydraulic tool	5.00			5047.00	
Jars	5.00			5052.00	
Safety Joint	2.00			5054.00	
Packer	5.00			5059.00	27.00 Bottom Of Top Packer
Packer	5.00			5064.00	
Stubb	1.00			5065.00	
Recorder	0.00	6798	Inside	5065.00	
Recorder	0.00	8367	Outside	5065.00	
Perforations	3.00			5068.00	
Change Over Sub	1.00			5069.00	
Drill Pipe	32.00			5101.00	
Change Over Sub	1.00			5102.00	
Bullnose	3.00			5105.00	41.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp
8080 E Central Ste 300
Wichita, KS 67206
ATTN: Dave Williams

23-30s-19w Kiowa,KS
Hill A #4-23
Job Ticket: 50988 **DST#: 1**
Test Start: 2013.06.23 @ 00:57:44

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 125000 ppm	
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 14.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10500.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4791 GIP	0.000
120.00	GSY SOWCM 35%G 2%O 15%W 48%M	0.590
150.00	GCM 5%G 95%M	1.239

Total Length: 270.00 ft Total Volume: 1.829 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW w as .055 @ 85 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

McCoy Petroleum Corp

23-30s-19w Kiowa,KS

8080 E Central Ste 300
Wichita, KS 67206

Hill A #4-23

Job Ticket: 50988

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.23 @ 00:57:44

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)
		0.00	0.00	0.00

Serial #: 6798

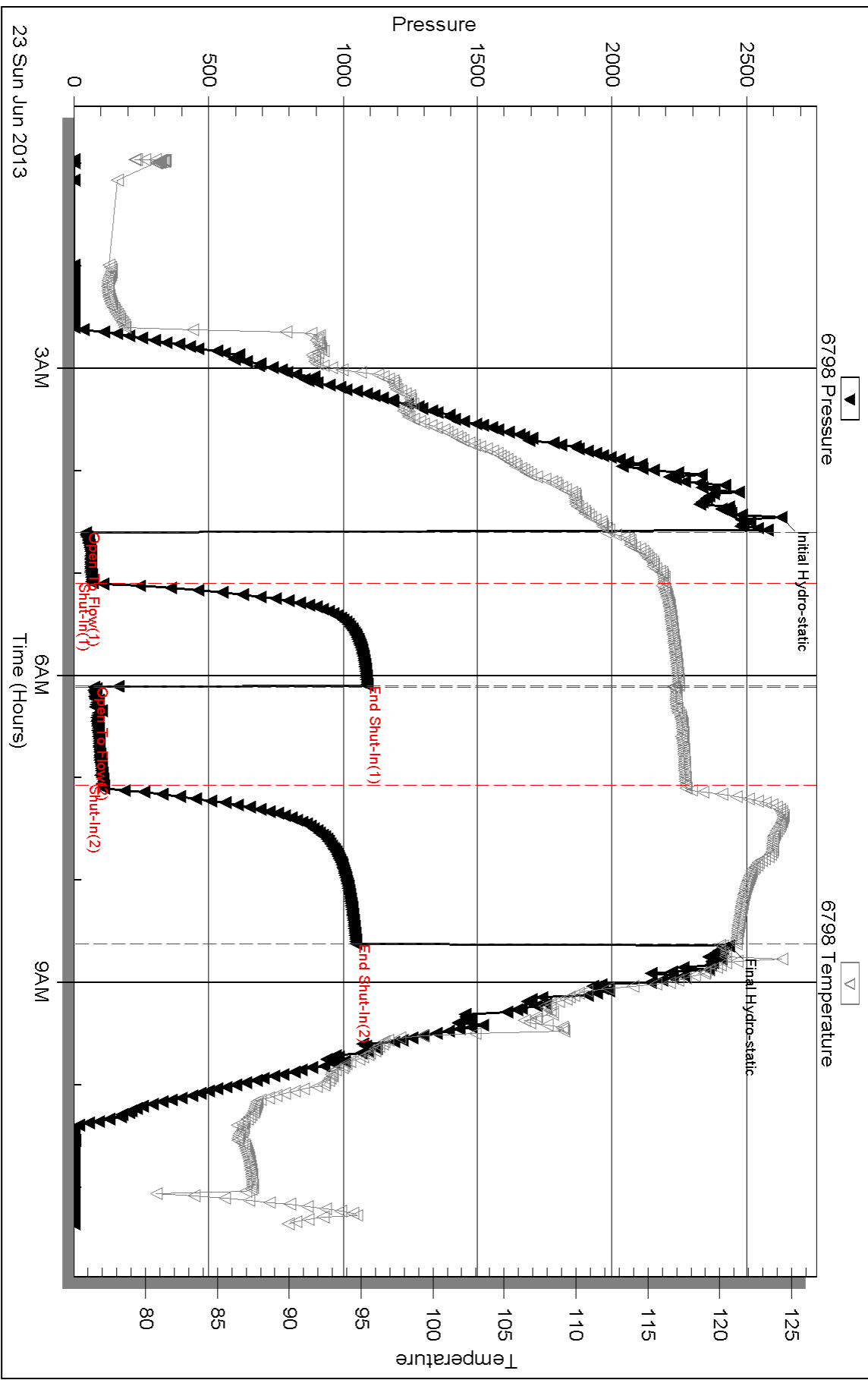
Inside

McCoy Petroleum Corp

Hill A #4-23

DST Test Number: 1

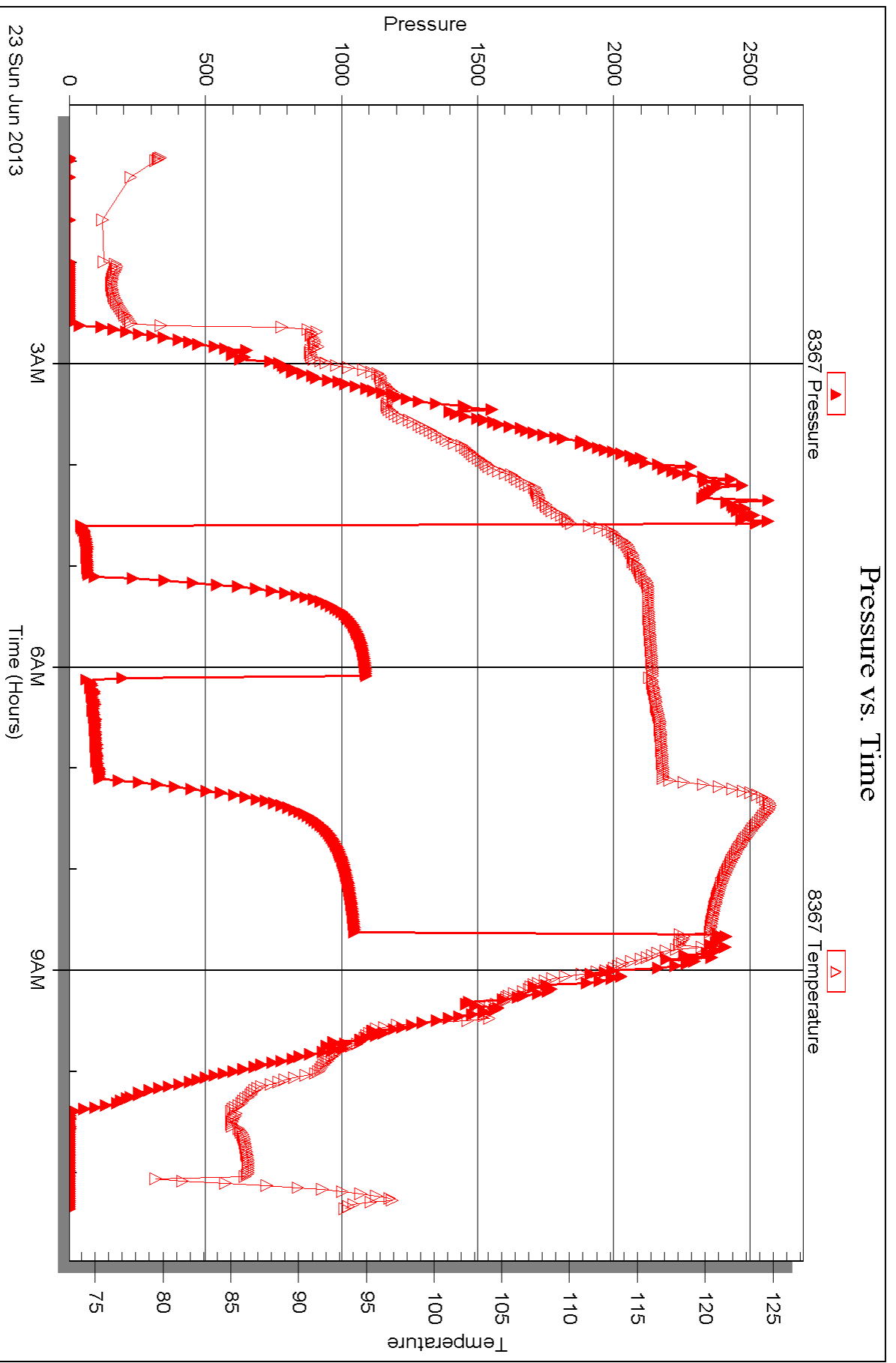
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50988

Printed: 2013.06.26 @ 09:16:40





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

8080 E Central Ste 300
Wichita, KS 67206

ATTN: Dave Williams

Hill A #4-23

23-30s-19w Kiowa,KS

Start Date: 2013.06.23 @ 23:33:50

End Date: 2013.06.24 @ 08:53:35

Job Ticket #: 50989 DST #: 2

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

Printed: 2013.06.26 @ 09:15:37



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

McCoy Petroleum Corp
8080 E Central Ste 300
Wichita, KS 67206
ATTN: Dave Williams

23-30s-19w Kiowa,KS

Hill A #4-23

Job Ticket: 50989

DST#: 2

Test Start: 2013.06.23 @ 23:33:50

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:07:05
 Time Test Ended: 08:53:35
 Interval: **5105.00 ft (KB) To 5125.00 ft (KB) (TVD)**
 Total Depth: 5125.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 2242.00 ft (KB)
 2231.00 ft (CF)
 KB to GR/CF: 11.00 ft

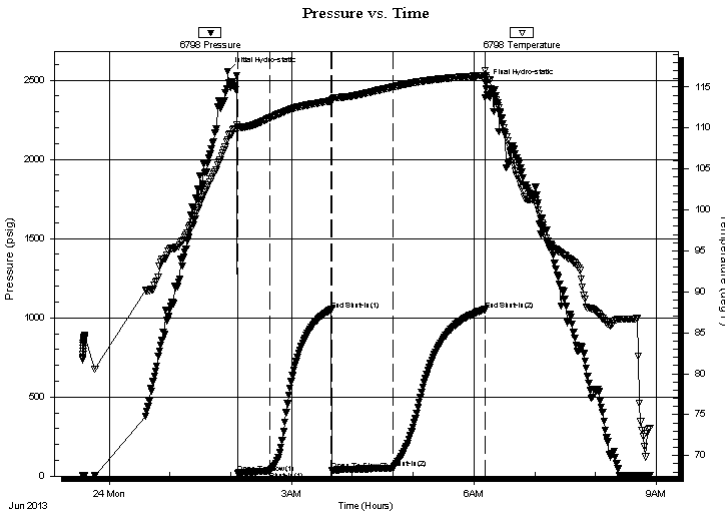
Serial #: 6798

Inside

Press@RunDepth: 52.11 psig @ 5106.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.23 End Date: 2013.06.24 Last Calib.: 2013.06.24
 Start Time: 23:33:51 End Time: 08:53:35 Time On Btm: 2013.06.24 @ 01:57:05
 Time Off Btm: 2013.06.24 @ 06:11:35

TEST COMMENT: IF: Weal 1/4 inch Blow
 IS: No Blow Back
 FF: Weak Blow, Built to 1 1/2 inches
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2556.14	108.55	Initial Hydro-static
10	19.37	110.12	Open To Flow (1)
41	33.25	111.19	Shut-In(1)
102	1052.38	113.32	End Shut-In(1)
103	34.80	113.43	Open To Flow (2)
163	52.11	114.99	Shut-In(2)
254	1051.50	116.44	End Shut-In(2)
255	2481.14	116.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	630 GIP	0.00
65.00	V SOCWM 1%O 40%W 59%M	0.32

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp
8080 E Central Ste 300
Wichita, KS 67206
ATTN: Dave Williams

23-30s-19w Kiowa,KS

Hill A #4-23

Job Ticket: 50989

DST#: 2

Test Start: 2013.06.23 @ 23:33:50

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:07:05

Time Test Ended: 08:53:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: **5105.00 ft (KB) To 5125.00 ft (KB) (TVD)**

Reference Elevations: 2242.00 ft (KB)

Total Depth: 5125.00 ft (KB) (TVD)

2231.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8367 Outside

Press @ Run Depth: psig @ 5106.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.23

End Date:

2013.06.24

Last Calib.:

1899.12.30

Start Time: 23:33:55

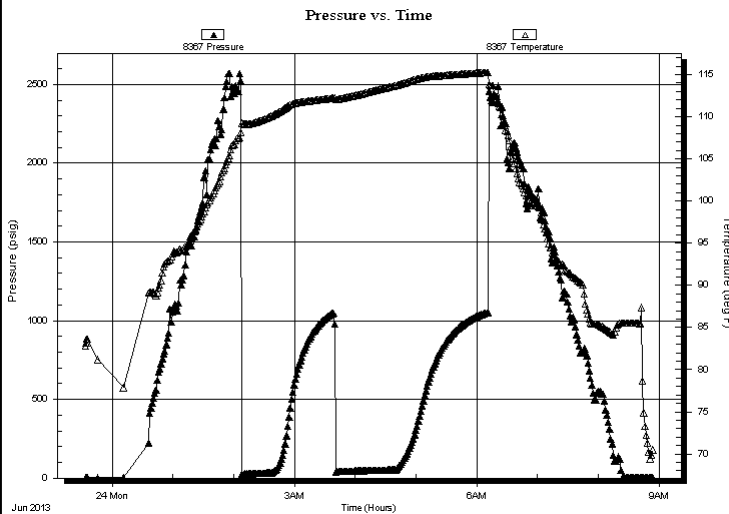
End Time:

08:54:05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weal 1/4 inch Blow
IS: No Blow Back
FF: Weak Blow , Built to 1 1/2 inches
FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	630 GIP	0.00
65.00	V SOCWM 1%O 40%W 59%M	0.32

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp
8080 E Central Ste 300
Wichita, KS 67206
ATTN: Dave Williams

23-30s-19w Kiowa,KS
Hill A #4-23
Job Ticket: 50989
Test Start: 2013.06.23 @ 23:33:50

DST#: 2

Tool Information

Drill Pipe:	Length: 4878.00 ft	Diameter: 3.80 inches	Volume: 68.43 bbl	Tool Weight: 2100.00 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 69.49 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	5105.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 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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Shut In Tool	5.00			5083.00	
Hydraulic tool	5.00			5088.00	
Jars	5.00			5093.00	
Safety Joint	2.00			5095.00	
Packer	5.00			5100.00	27.00 Bottom Of Top Packer
Packer	5.00			5105.00	
Stubb	1.00			5106.00	
Recorder	0.00	6798	Inside	5106.00	
Recorder	0.00	8367	Outside	5106.00	
Perforations	16.00			5122.00	
Bullnose	3.00			5125.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp
8080 E Central Ste 300
Wichita, KS 67206
ATTN: Dave Williams

23-30s-19w Kiowa,KS
Hill A #4-23
Job Ticket: 50989 **DST#: 2**
Test Start: 2013.06.23 @ 23:33:50

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 110000 ppm	
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 15.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 12400.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	630 GIP	0.000
65.00	VSOCWM 1%O 40%W 59%M	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW w as .06 @ 86 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

McCoy Petroleum Corp

23-30s-19w Kiowa,KS

8080 E Central Ste 300
Wichita, KS 67206

Hill A #4-23

Job Ticket: 50989

DST#: 2

ATTN: Dave Williams

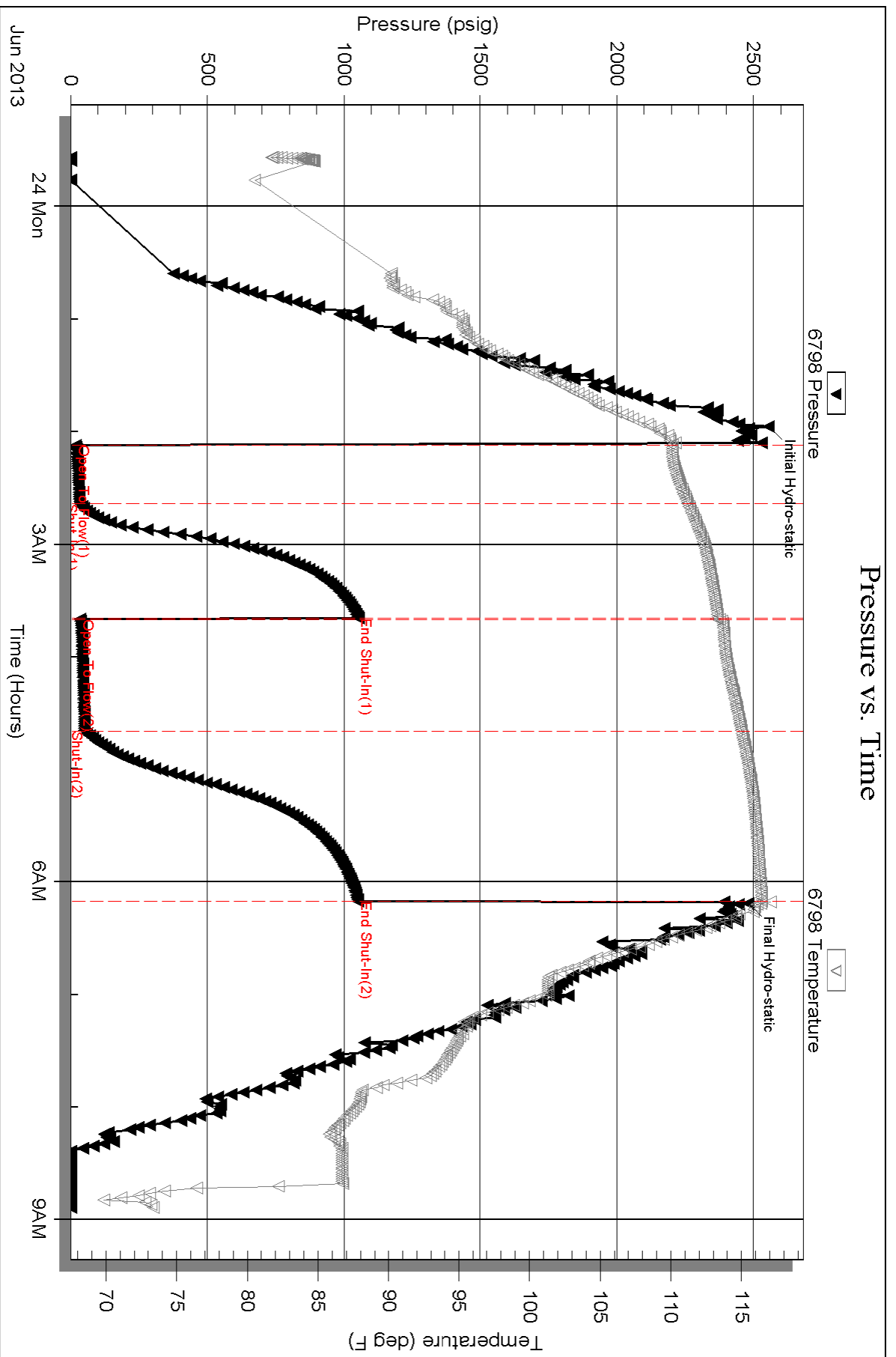
Test Start: 2013.06.23 @ 23:33:50

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)
		0.00	0.00	0.00

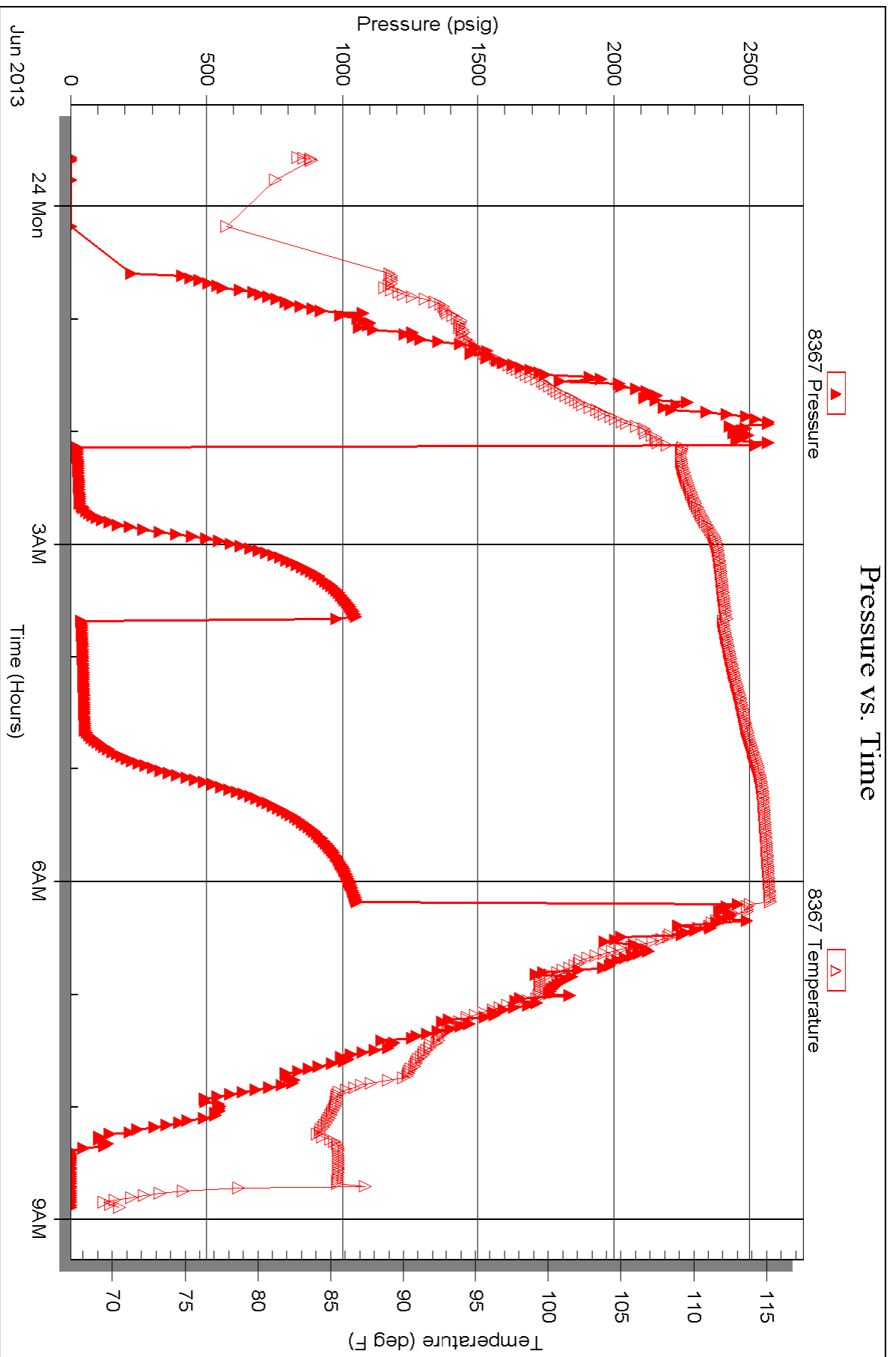


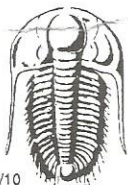
Serial #: 8367

Outside McCoy Petroleum Corp

Hill A #4-23

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50988

Well Name & No. Hill A 4-23 Test No. 1 Date 06/22/13
 Company McCoy Petroleum Corp Elevation 2242 KB 2231 GL
 Address 8080 E Central Ste 300 Wichita, KS 67206
 Co. Rep / Geo. Dave Williams Rig Sterling 2
 Location: Sec. 23 Twp. 30S Rge. 19W Co. kiowa State KS

Interval Tested 5064 - 5105 Zone Tested Mississippi
 Anchor Length 41 Drill Pipe Run 4846 Mud Wt. 9.2
 Top Packer Depth 5059 Drill Collars Run 215 Vis 53
 Bottom Packer Depth 5064 Wt. Pipe Run 0 WL 14.4
 Total Depth 5105 Chlorides 19500 ppm System LCM 2

Blow Description IF: strong Blow, BOB in 30 seconds
TSI: GTS while bleeding off, NO BlowBack
FF: strong Blow, BOB + GTS immediate, caught sample + Gauged with Merla
FST: NO Blow Back

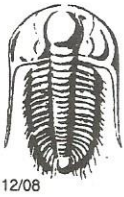
Rec	Feet of	%gas	%oil	%water	%mud
<u>4791</u>	<u>GTP</u>				
<u>150</u>	<u>GCM</u>	<u>5</u>			<u>95</u>
<u>120</u>	<u>GSY50WCM</u>	<u>35</u>	<u>2</u>	<u>15</u>	<u>48</u>

Rec Total 270 BHT 121 Gravity N/C API RW .055 @ 85 °F Chlorides 125,000 ppm

(A) Initial Hydrostatic <u>2629</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>23:45</u>
(B) First Initial Flow <u>45</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>60:57</u>
(C) First Final Flow <u>68</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:35</u>
(D) Initial Shut-In <u>1089</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>08:37</u>
(E) Second Initial Flow <u>75</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1</u> .5h 50	T-Out <u>11:21</u>
(F) Second Final Flow <u>109</u>	<input checked="" type="checkbox"/> Mileage <u>(110)</u> 170.50	Comments
(G) Final Shut-In <u>1047</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2435</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>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1895.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1895.50</u>	

Approved By [Signature] 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.



12/08

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Gas Volume Report

McCoy Petroleum
Operator

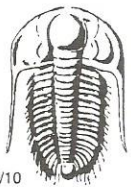
Hill A 4-23

Well Name and No.

1
DST No.

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
				90	7	1/8	7.5
				20	9	1/8	8.2
				30	10	1/8	8.6
				40	13	1/8	9.6
				50	14	1/8	9.9
				60	15	1/8	10.3

Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50989

4/10

Well Name & No. Hill A 4-23 Test No. 2 Date 06/23/13
 Company McCoy Petroleum corp Elevation 2242 KB 2231 GL
 Address 8080 E Central Ste 300 Wichita, KS 67206
 Co. Rep/Geo. Dave Williams Rig Sterling 2
 Location: Sec. 23 Twp. 30 S Rge. 19 W Co. Kiowa State KS

Interval Tested 5105 - 5125 Zone Tested Mississippi
 Anchor Length 20 Drill Pipe Run 4778 Mud Wt. 9.3
 Top Packer Depth 5100 Drill Collars Run 215 Vis 68
 Bottom Packer Depth 5105 Wt. Pipe Run 0 WL 15.6
 Total Depth 5125 Chlorides 12,400 ppm System LCM 2

Blow Description IF: weak 1/4 inch Blow
ISI: NO Blow Back
FF: Weak Blow, Built to 1 1/2 inches
FBI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>Feet of GIP</u>				
<u>65</u>	<u>Feet of VSOCKW</u>		<u>1</u>	<u>40</u>	<u>59</u>

Rec Total 65 BHT 116 Gravity N/C API RW .06 @ 86 °F Chlorides 110,000 ppm

(A) Initial Hydrostatic 2556 Test 1350 T-On Location 21:30
 (B) First Initial Flow 19 Jars 250 T-Started 22:33
 (C) First Final Flow 33 Safety Joint 75 T-Open 02:07
 (D) Initial Shut-In 1052 Circ Sub _____ T-Pulled 06:10
 (E) Second Initial Flow 35 Hourly Standby _____ T-Out 08:53
 (F) Second Final Flow 52 Mileage (110) 341 Comments _____
 (G) Final Shut-In 1051 Sampler _____ loaded tools 6/25 8:00
 (H) Final Hydrostatic 2481 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2016
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2016

Approved By Dave Williams 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.

ACO-1 Supplemental

SAMPLE TOPS

McCoy Petroleum
Hill 'A' #4-23
C NW SW
1980'FSL & 660'FWL
Sec 23-30s-19w
KB: 2239'

	Depth	Datum
LeCompton B	4014	-1775
Queen Hill	4045	-1806
Heebner	4226	-1987
Brown Lime	4415	-2176
Lansing	4438	-2199
Lansing B	4455	-2216
Lansing F	4548	-2309
Lansing H	4606	-2367
Lansing J	4722	-2483
Stark	4762	-2523
Hushpuckney	4810	-2571
Pawnee	4938	-2699
Cherokee	4986	-2747
Mississippian	5054	-2815
Spergen	5090	-2851
Warsaw	5116	-2876
RTD	5200	-2961

LOG TOPS Structure

McCoy Petroleum
Hill 'A' #4-23
C NW SW
Sec 23-30s-19w
KB: 2239'

	Depth	Datum
LeCompton B	4008	-1769
Queen Hill	4045	-1806
Heebner	4226	-1987
Brown Lime	4416	-2177
Lansing	4438	-2199
Lansing B	4456	-2217
Lansing F	4553	-2314
Lansing H	4607	-2368
Lansing J	4720	-2481
Stark	4760	-2521
Hushpuckney	4808	-2569
Pawnee	4944	-2705
Cherokee	4986	-2747
Mississippian	5052	-2813
Spergen	5091	-2852
Warsaw	5114	-2875
LTD	5199	-2960

ALLIED OIL & GAS SERVICES, LLC 059509

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge

DATE <i>6-16-13</i>	SEC. <i>23</i>	TWP. <i>30S</i>	RANGE <i>19W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>5:00</i>
LEASE <i>Hill</i>	WELL # <i>A-4-23</i>	LOCATION <i>54 & 183 S Toad, W to 21st</i>			COUNTY <i>Nowata</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)			<i>2 1/2 S, Elinto</i>				

CONTRACTOR *Sterling #2*
 TYPE OF JOB *Surface*
 HOLE SIZE *12 1/4* T.D. *619'*
 CASING SIZE *8 5/8* DEPTH *611.92'*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *38.73*
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT *36 1/2 Bbls*
 EQUIPMENT

OWNER *McCoy Petroleum*
 CEMENT
 AMOUNT ORDERED *190sx 60.40' 8% gel + 2% CC + 1/4# Flo seal + 100sx class A + 3% CC*
 COMMON *Class A 100sx @ 17.70* *1790.00*
 POZMIX @
 GEL @
 CHLORIDE *8sx @ 64.00* *512.00*
 ASC @
Light weight 110sx @ 15.95 *3030.50*
 Flo seal *48# @ 2.92* *1422.56*
 @
 @
 @
 @
 @
 HANDLING *327.01 cu ft. @ 2.47* *810.98*
 MILEAGE *13.85 ton @ 35.26* *1260.51*
 TOTAL *7610.53*

PUMP TRUCK CEMENTER *Ron Gilley*
 # *471-265* HELPER *Jake Hurst*
 BULK TRUCK
 # *421-250* DRIVER *James Bowman*
 BULK TRUCK
 # DRIVER

REMARKS:

See Cement Log
Cement Did Circulate

SERVICE

DEPTH OF JOB *619'*
 PUMP TRUCK CHARGE *2058.50*
 EXTRA FOOTAGE @
 MILEAGE *35 @ 7.70* *269.50*
 MANIFOLD *hand rental @ 275.00* *N/A*
Light Veh. 35 @ 4.40 *154.00*
 @
 @
 TOTAL *2482.00*

CHARGE TO: *McCoy Petroleum*
 STREET
 CITY STATE ZIP

8 5/8 PLUG & FLOAT EQUIPMENT

1-Baffle plate @ 59.40
1-Rubber Plug @ 67.10
1-Basket @ 226.50
 @
 @
 TOTAL *353.00*

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 *10445.53*
 DISCOUNT IF PAID IN 30 DAYS
net 6913.16

PRINTED NAME *X [Signature] Martinez*
 SIGNATURE *[Signature]*

ALLIED OIL & GAS SERVICE, LLC 059513

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: *Medicine Lodge*

DATE <i>6-25-13</i>	SEC. <i>23</i>	TWP. <i>30S</i>	RANGE <i>19W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>2:15</i>
LEASE <i>Hill</i>	WELL # <i>A-4-23</i>	LOCATION <i>Coldwater N to Rd, W to 21st</i>			COUNTY <i>Kiowa</i>	STATE <i>KS.</i>	
OLD OR <u>NEW</u> (Circle one)		<i>2 1/2 S, E into</i>					

CONTRACTOR *Sterling #2*
 TYPE OF JOB *Production*
 HOLE SIZE *7 7/8* T.D. *5200'*
 CASING SIZE *4 1/2* DEPTH *5202.85*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *39.40*
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT *82 3/4*
 EQUIPMENT

OWNER *McCoy Pet.*

CEMENT
 AMOUNT ORDERED *50 SK 60' 40' 4% gel*
225 sk Class A ASC ts # Kolscal
1570 FI-160

COMMON	<i>A</i>	<i>30 sk @ 17.90</i>	<i>537.00</i>
POZMIX		<i>20 sk @ 9.35</i>	<i>187.00</i>
GEL		<i>2 @ 23.40</i>	<i>46.80</i>
CHLORIDE		@	
ASC	<i>225 sk</i>	@ <i>20.90</i>	<i>4702.50</i>
<i>Kolscal</i>	<i>1125 #</i>	@ <i>.98</i>	<i>1102.50</i>
<i>FI-160</i>	<i>105.75</i>	@ <i>18.90</i>	<i>1998.67</i>
<i>Clapno</i>	<i>8.5 Gals</i>	@ <i>34.40</i>	<i>292.40</i>
<i>ASF</i>	<i>750 Gals</i>	@ <i>1.39</i>	<i>1042.50</i>

PUMP TRUCK CEMENTER *Bon Caffey*
 # *471-265* HELPER *Jack Hurde*
 BULK TRUCK
 # *381-252* DRIVER *James Bowen*
 BULK TRUCK
 # DRIVER

HANDLING	<i>348.86</i>	@ <i>2.48</i>	<i>865.17</i>
MILEAGE	<i>16.86/35/2-60</i>		<i>1535.12</i>
			TOTAL <i>12,309.66</i>

REMARKS:

See Cement Log

SERVICE

DEPTH OF JOB	<i>5200'</i>		
PUMP TRUCK CHARGE	<i>3099.00</i>		
EXTRA FOOTAGE	@		
MILEAGE	<i>35</i>	@ <i>7.70</i>	<i>269.50</i>
MANIFOLD	@		<i>275.00</i>
<i>Light Veh.</i>	<i>35</i>	@ <i>4.40</i>	<i>154.00</i>

TOTAL *3797.75*

CHARGE TO: *McCoy Pet.*
 STREET _____
 CITY _____ STATE _____ ZIP _____

4 1/2 PLUG & FLOAT EQUIPMENT

<i>1- AFU (float shoe)</i>	@	<i>264.20</i>
<i>1- Latch Down plug</i>	@	<i>400.00</i>
<i>6- Centralizers</i>	@ <i>28.10</i>	<i>168.60</i>
<i>1- Basket</i>	@	<i>127.90</i>

TOTAL *960.70*

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 Dave Oller*

SIGNATURE *Dave Oller*

SALES TAX (If Any) _____

TOTAL CHARGES *17,068.11*

DISCOUNT _____ IF PAID IN 30 DAYS

(Net) 12,235.88



**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: HILL "A" #4-23
Location: NW - SW of Sec. 23 - T. 30 S. - R. 19 W.
License Number: A.P.I. #15-097-21,761-00-00
Spud Date: 06/16/2013
Surface Coordinates: 1980' FSL & 660' FWL
Region: IOWA CO., KS.
Drilling Completed: 06/25/2013

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2228' **K.B. Elevation (ft):** 2239'
Logged Interval (ft): 608' **To:** 5186' **Total Depth (ft):** 5200' RTD
Formation: MISSISSIPPIAN "WARSAW."
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: McCOY PETROLEUM CORPORATION KCC LIC. NO. # 5003
Address: 8080 E. CENTRAL, STE. 300
WICHITA, KANSAS 67206-2366

GEOLOGIST

Name: DAVID P. WILLIAMS, P.G.
Company: DW ENERGY, LLC
Address: 312 N. BROADVIEW STREET
WICHITA, KANSAS 67208

Cores

Surface Casing Data: Spud at 4:15 am on 06/16/13. Drilled 12-1/4" hole to 616'. Ran 15 joints of new 24# 8-5/8" surface casing, Tallied 597.92', set at 610' KB. Welded straps on bottom 3 and top 2 joints. Tacked collars on remainder. Cemented with 190 sks 60/40 POZ; 3% Gel; 2% CC; 1/4# FS, tailed with 100 sks Class A; 3% CC. Plug down at 5:00 pm 06/16/13. Allied Cementing ticket #59509. Basket at 120'. Cement did circulate.

Production Casing: Ran 123 joints new 10.5 #, 4-1/2" casing. Tallied 5202', set at 5199' RTD. Cemented with 225 sks ASC "McCoy Blend" with 750 gal mud flush. Centralizers (5) 1,3,5,7,10. Baskets (2) 12 & 14. Plug down at 2:15 am on 06/26/13. Allied Cementing ticket #50513. Plugged Rathole with 30 sks and mousehole with 20 sks, using 60/40 Poz. SDC reported to KCC on 06/26/13 to (Michelle Pennington).

Deviation Survey's Taken: @ 618' = 3/4 degree; @ 4945' = 3/4 degree; @ 5105' = 1 1/2 degrees; @ 5200' = 3/4 degree.

DSTs

~~ DST # 1 ~~ 5064'-5105'. Times: 30"- 60"- 60"- 90"; Blow: IF=Strong/ BOB/30 Sec. & GTS @ 30" (See Gauge Report). No Blow Back During ISIP. FF= Strong Blow BOB/ Instant. No Blow Back During FSIP.

Recovery: 4791' GIP: 270' TF:150' GCM (5% G; 95% M); 120 SOWCM (35% G; 2% O; 15% Wtr; 48% M).

Pressures: IH= 2629#; FH= 2434#; IF = 45-68#; FF = 75-109#;
ISIP = 1089#; FSIP = 1047#; T.= 121 degrees. F.; WTR= 125,000 Ppm Chl.; RW= .055 @ 85 degrees F.

Gas Gauge FF= @ 10"= 7.5 Mcf; @ 20"= 8.2 Mcf; @ 30"= 8.6 Mcf; @ 40"= 9.6 Mcf; @ 50"= 9.9 Mcf; @ 60"=10.3 Mcf.

~~ DST # 2 ~~ 5105'-5125'. Times: 30"- 60"- 60"- 90"; Blow: IF=Weak Build/1/4". No Blow Back During ISIP. FF= Weak Build// 1 1/2". No Blow Back During FSIP.

Recovery: 630' GIP: 65' VSOCMW (1% O; 40% W & 59% M).

Pressures: IH= 2556#; FH= 2481#; IF= 19-33#; FF= 35-52#; ISIP= 1052#; FSIP= 1052#; T.= 116 degrees. F.; WTR= 110,000 Ppm Chl.; RW= .06 @ 86 degrees F..

Comments


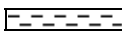

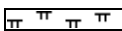

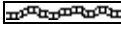




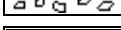


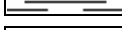
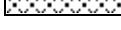



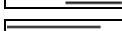




After review of all geologic samples as examined, combined with the fluid and pressures results from all drill stem tests taken and analysis from the electric logs run, it was determined by all parties that production casing be run in order to further evaluate this well.

It should be noted that the electric logs depths appear to be approximately 14' shallow to the geological sample tops, the drillers pipe strap and the actual production casing tally as set, Therefore, it is my opinion that the electric log tops should be corrected to adjust for this discrepancy.

Respectfully submitted,

David P. Williams, P.G

ROCK TYPES

	Anhy		Clyst		Gry shale		Mrlst		Sltst
	Bent		Coal		Gyp		Salt		Ss
	Brec		Congl		Igne		Shale		Till
	Carb sh		Dol		Lmst		Shcol		
	Cht		Grn sh		Meta		Shgy		

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Breclfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp

- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- FOSSIL**
- Algae
 - Amph

- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Fuss
- Gastro
- Oolite
- Oomold
- Ostra
- Pelec

- Pellet
- Pisolite
- Plant
- Strom

- STRINGER**
- Anhy
 - Arg
 - Bent
 - Coal
 - Dol
 - Gyp
 - Ls
 - Mrst
 - Sltstrg
 - Ssstrg

- TEXTURE**
- Boundst
 - Chalky
 - Cryxln
 - Earthy
 - Finexln
 - Grainst
 - Lithogr
 - Microxln
 - Mudst
 - Packst
 - Wackest

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy
- SORTING**
- Well
 - Moderate
 - Poor

- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

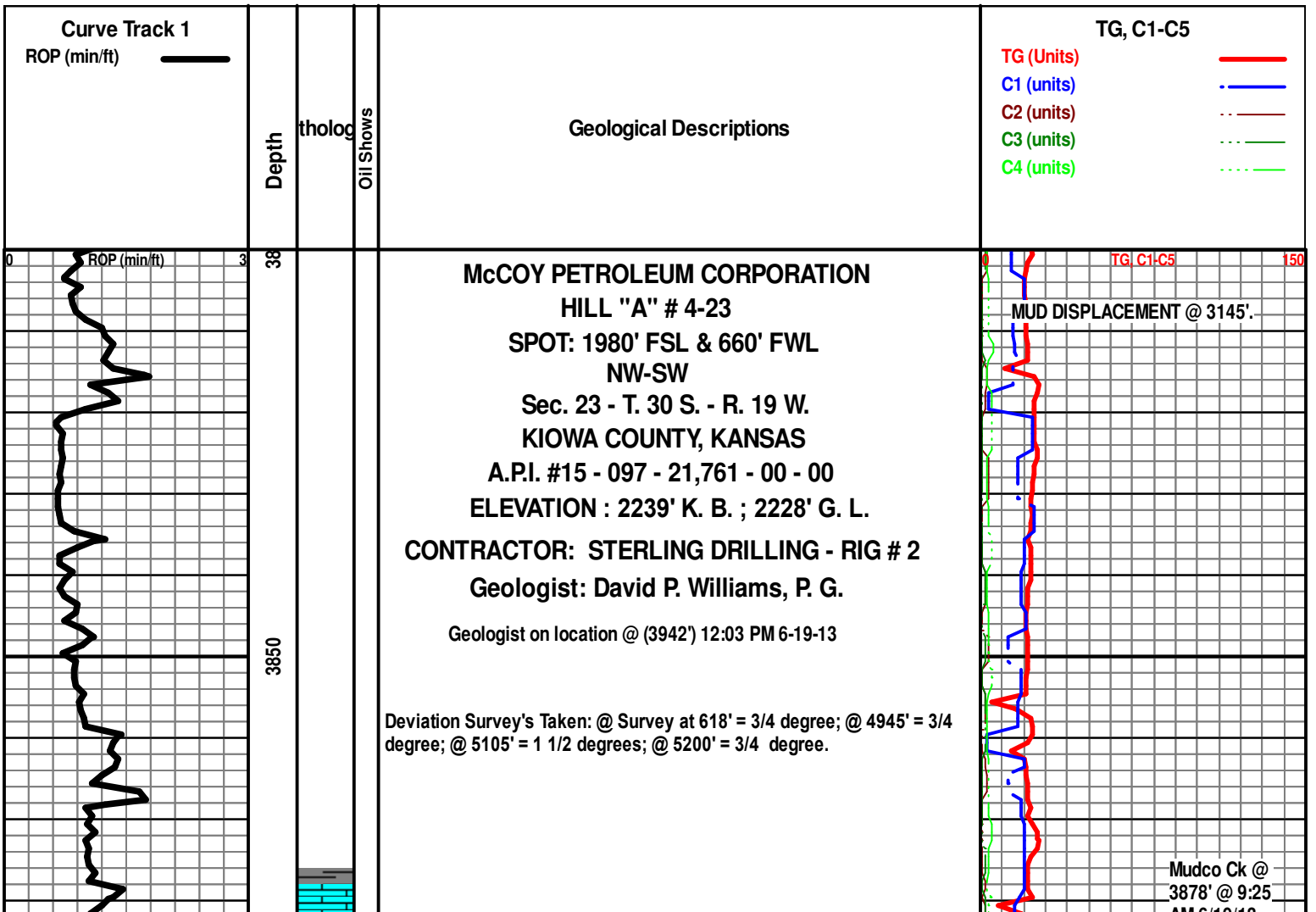
- OIL SHOW**
- Gas show

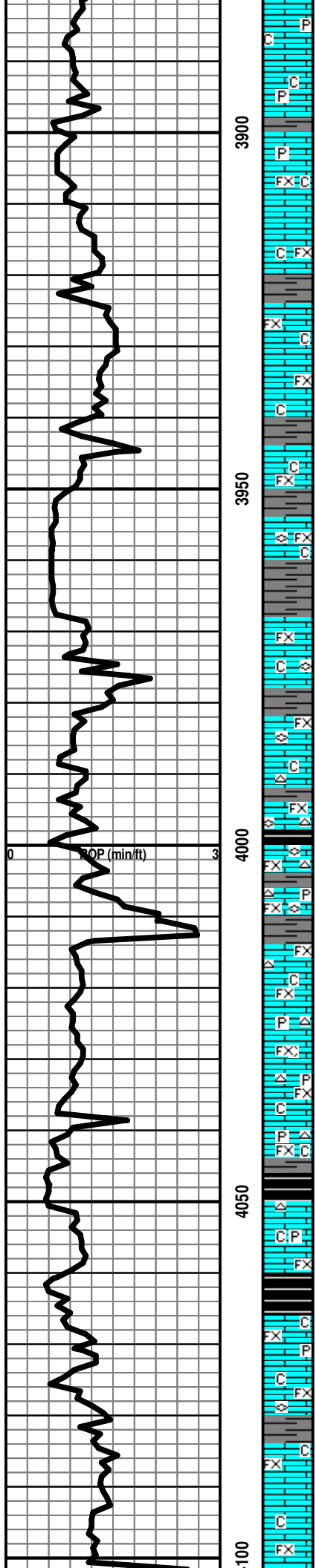
- Even
- Spotted
- Ques
- Dead

- INTERVAL**
- Core
 - Dst

- Dst_alt

- EVENT**
- Rft
 - Sidewall





Note: All samples have been lagged to depth by calculated time.

Begin 31' Kelly Sample Examination @ 3942'.

Ls Wht-Crm FxIn Micrite Grad Poor Pin-Pt IxIn Por Fos (Brach) Chalky Pyr
Mass Sh Gry Soft No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Micrite Grad Poor Pin-Pt IxIn Por Chalky Sh Gry- Red
Soft No Odor No Flor No Stn NS

Ls Wht FxIn Micrite Grad Poor IxIn Pin-Pt Por Fos (Fos) Chalky Sh
Char-Gry- Red Fissil-Soft No Odor No Flor No Stn NS

Ls Wht FxIn Micrite Grad Poor IxIn Pin-Pt Por Cht Amber Op Shp Vit Fos
(Fuss) Chalky Sh Char (w/Pyr Inclus) Gry- Red-Blk Carb Fissil-Soft No
Odor No Flor No Stn NS

LECOMPTON B 4014' (- 1775)

QUEEN HILL SHALE 4045' (-1806)

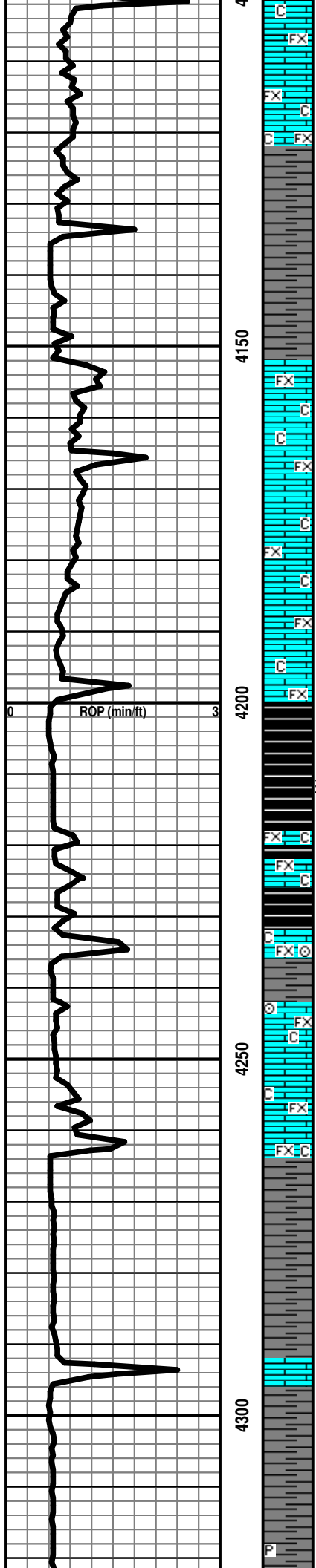
Sh Blk Carb- Char-Gry Fissil-Soft Ls Wht FxIn Micrite Grad Poor IxIn
Pin-Pt Por Cht Amber Fos (Fuss) Pyr Mass Chalky No Odor No Flor No Stn
NS

Ls Wht FxIn Micrite Grad Poor IxIn Pin-Pt Por Pyr Mass Fos (Fuss) Chalky
Sh Char-Gry Fissil-Soft No Odor No Flor No Stn NS

AM 6/19/13
Vis 62;
WT=9.1#;
PV=16;
YP= 16;
WL=12.4;
Cake=1;
Chl=7100;
CaI =60;
Sol=5.3%.
LCM= 0#;
DMC=\$
3,197.75
CMC=\$
11,000.40

TG C1-C5 150

ADJ. ANNULAR
VELOCITY (AV) @
4006' = 169.03.



Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt Por Chalky Sh Blk
Carb-Char-Gry Fissil-Soft No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt Por Chalky Sh Blk
Carb-Char-Gry Fissil-Soft No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil-Soft Ls Wht-Crm FxIn Micrite Grad Poor IxIn
Pin-Pt Por Chalky No Odor No Flor No Stn NS

HEEBNER 4226' (-1987)

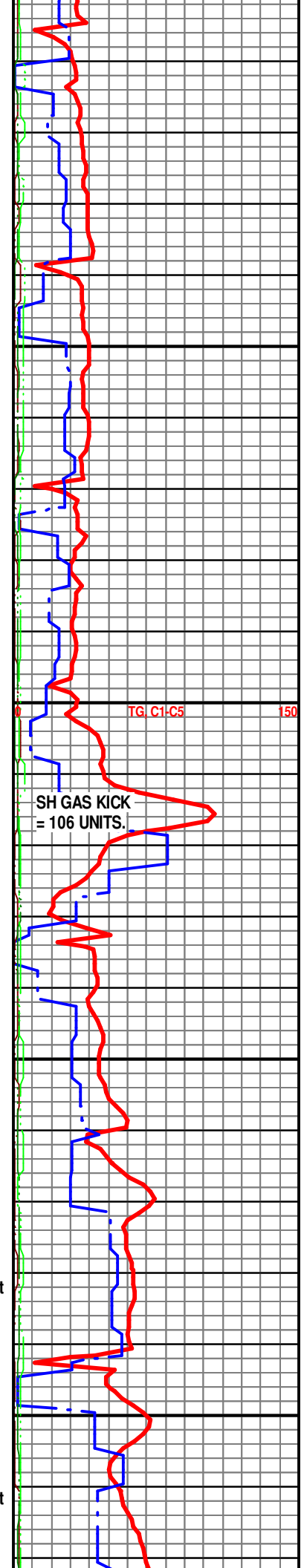
TORONTO 4242' (- 2003)

Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt Por Fos (Crin) Chalky Sh Blk Carb-Char-Gry
Fissil-Soft No Odor No Flor No Stn NS

DOUGLAS 4263' (-2024)

Sh Char-Gry-Grn Fissil-Soft Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt
Por Chalky No Odor No Flor No Stn NS

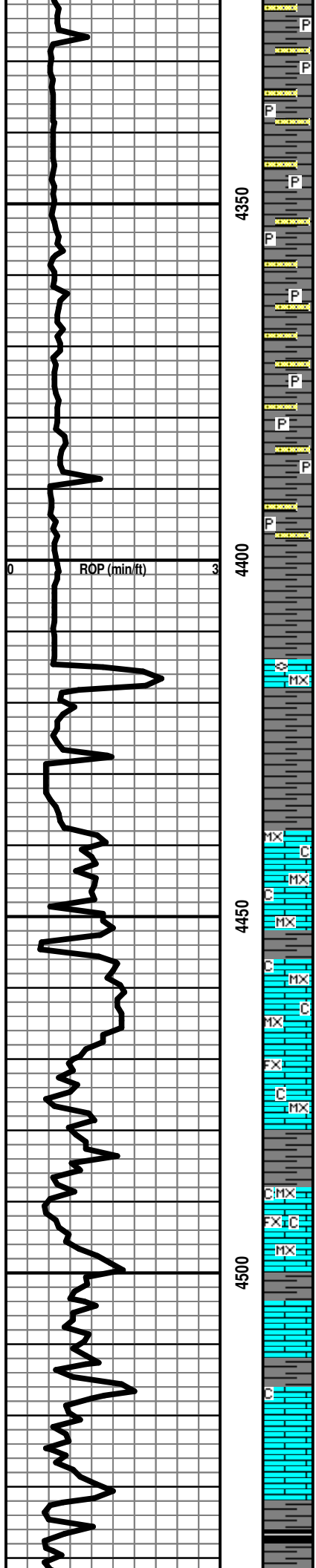
Sh Char-Gry-Grn Fissil-Soft Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt
Por Fos (Brach) Chalky No Odor No Flor No Stn NS



SH GAS KICK
= 106 UNITS.

TG C1-C5

150



Sh Char-Gry-Grn Fissil-Soft Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt
 Por Cht Wht-Gry Translu-Op Shp Vit Qtz Ss Gry V-FGrn Well Sort Carb
 Poor IGran Por Dns-Friable (w/Pyr Includ) Chalky No Odor No Flor No Stn
 NS

Sh Char-Gry-Grn Fissil-Soft Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt
 Por Cht Wht-Gry Translu-Op Shp Vit Qtz Ss Gry V-FGrn Well Sort Carb
 Poor IGran Por Dns-Friable (w/Pyr Includ) Chalky No Odor No Flor No Stn
 NS

IATAN (BROWN LIME) 4415' (- 2176)

Ls Crm-Tan MicroxIn Dns Micrite Cht Amber-Tan Translu-Op Shp Vit
 Chalky Fos (Fuss) Sh Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn NS

LANSING 4438' (- 2199)

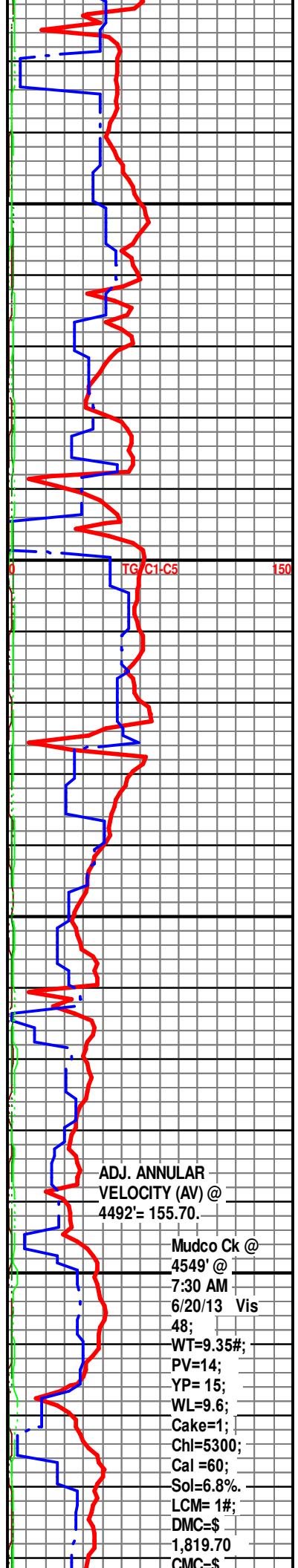
LANSING "B" 4455' (- 2216)

Ls Wht-Crm-Tan-Gry FxIn-MicroxIn Dns Micrite Grad Poor IxIn Por Chalky
 Sh Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan-Gry FxIn-MicroxIn Dns Micrite Grad Poor IxIn Por Chalky
 Sh Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn NS

No Sample Caught

Begin 10' Sample Examination @ 4550'.



ADJ. ANNULAR
 VELOCITY (AV) @
 4492' = 155.70.

Mudco Ck @
 4549' @
 7:30 AM
 6/20/13 Vis
 48;
 WT=9.35#;
 PV=14;
 YP= 15;
 WL=9.6;
 Cake=1;
 ChI=5300;
 Cal =60;
 Sol=6.8%.
 LCM= 1#;
 DMC=\$
 1,819.70
 CMC=\$

LANSING "F" 4548' (- 2309)

Ls Wht-Crm-Tan FxIn-MicroxIn Dns Micrite Grad Poor IxIn Pin-Pt Por Cht Amber-Gry Translu Shp Vit Chalky Sh Blk Carb-Gry-Char - Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic Grad Poor-Fair OOM Por Poor InterOOM Por (Small OOids in pl) V Poor Leaching Poor Develop Cht Gry Op Shp Vit Chalky Sh Char- Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic Grad Poor-Fair OOM Por Poor InterOOM Por (Small OOids in pl) V Poor Leaching Poor Develop Cht Wht-Gry Op Shp Vit Pyr Mass Chalky Sh Char- Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic Grad Tr Poor OOM Por AA Cht Lt Tan Op Shp Vit Pyr Mass Chalky Sh Char- Gry- Grn- Blk Carb- Aqua Fissil No Odor No Stn No Flor NS

No Sample Caught.

BIT TRIP @ 4549'.
Fish For Parts of Bit.

@ 4566' GAS TEST
EXTRACTOR. 112
UNITS OBSERVED.

KANSAS CITY "H" DRUM 4606' (-2367)

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic No Vis Por Cht Lt Tan Op Shp Vit Pyr Mass Chalky Sh Char- Gry- Grn- Blk Carb- Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic (w/Pry Inklus) Grad Fair-Med OOM Por Poor- Fair InterOOM Por (Tr/OOL (Small OOids in pl) V Poor-Fair Leaching (Tr Fair Vug) Poor Develop Cht Wht Op Shp Vit Chalky Sh Char- Gry (w/Pry Inklus)- Grn Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic (w/Pry Inklus) Grad Fair-Med OOM Por Poor- Fair InterOOM Por (Tr/OOL (Small OOids in pl) V Poor-Fair Leaching (Tr Fair Vug) Poor Develop Pyr Mass Chalky Sh Blk Carb-Char- Gry- Grn Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic Fair OOM Por Poor- Fair InterOOM Por Poor-Fair Leaching Poor Develop Dec Chalky Sh Char- Gry- Grn- Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Mostly Micrite Tr Fair OOM Por Poor- Fair InterOOM Por Poor-Fair Leaching Poor Develop Dec AA Chalky Sh Char -Gry Grn-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Mostly Micrite Tr Poor OOM Por AA Cht Wht-Amber Op Shp Vit Chalky Fos (Crin) Sh Char-Gry Fissil No Odor No Stn No Flor NS

Sh Char-Gry-Blk Carb Fissil Ls Wht-Crm-Lt Tan MicroxIn-FxIn Mostly Micrite Grad Fair OOM Por Poor- Fair InterOOM Por Poor-Fair Leaching Poor Develop Cht Wht Op Shp Vit Chalky Pyr Mass No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Mostly Micrite Cht Wht- Amber- Gry Op Shp Vit Chalky Fos (Gastro (Turritella)) Pyr Mass Abd Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Mostly Micrite Cht Wht Op Shp Vit Chalky Fos (Crin) Sh Char-Gry Fissil No Odor No Stn No Flor NS

Sh Char-Gry (w/Pry Inklus)-Blk Carb Fissil Ls Wht-Crm-Lt Tan MicroxIn-FxIn Mostly Micrite Grad Tr Fair OOM Por Poor InterOOM Por Poor Leaching Poor Develop Dec Cht Wht Op Shp Vit Chalky No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Mostly Micrite Grad Tr Fair OOM Por Poor InterOOM Por Poor Leaching Poor Develop Dec Cht Wht Op Shp Vit Chalky Sh Char-Gry (w/Pry Inklus)-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Crm-Lt Tan-Wht MicroxIn-FxIn Mostly Micrite Poor OOM Por AA (Tr Only) Cht- Wht Op Shp Vit Chalky Sh Blk Carb (w/Pry Inklus) Char-Gry (w/Pry Inklus) Fissil No Odor No Stn No Flor NS

KANSAS CITY "J" DENNIS 4722' (- 2483)

Ls Lt Tan-Wht VFxIn Mostly Micrite Poor OOM Por Grad Poor OOM Por Poor InterOOM Por Poor Leaching Poor Develop Chalky Sh Blk Carb (w/Pry Inklus) Char-Gry (w/Pry Inklus) Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht FxIn Mostly Micrite Grad Por Pin-Pt IxIn Por Cht Wht -Lt Tan Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht FxIn Mostly Micrite Grad Por Pin-Pt IxIn Por Cht Wht -Lt Tan Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

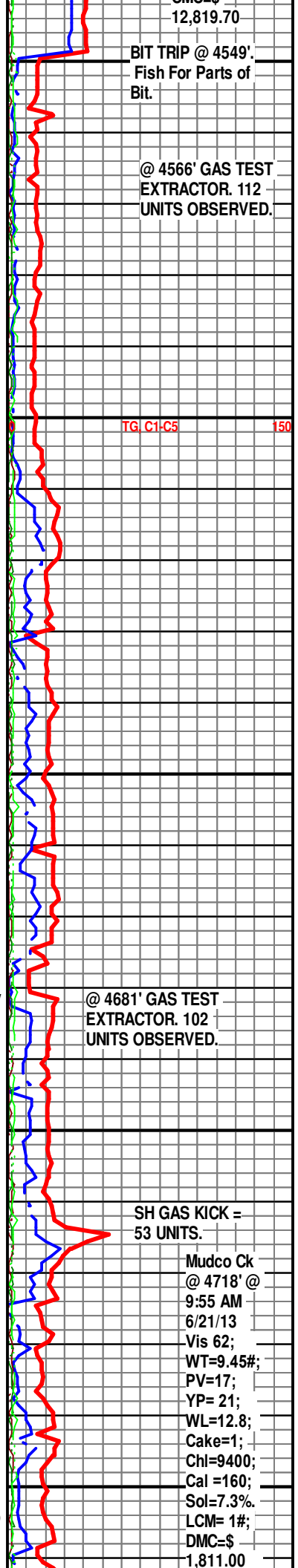
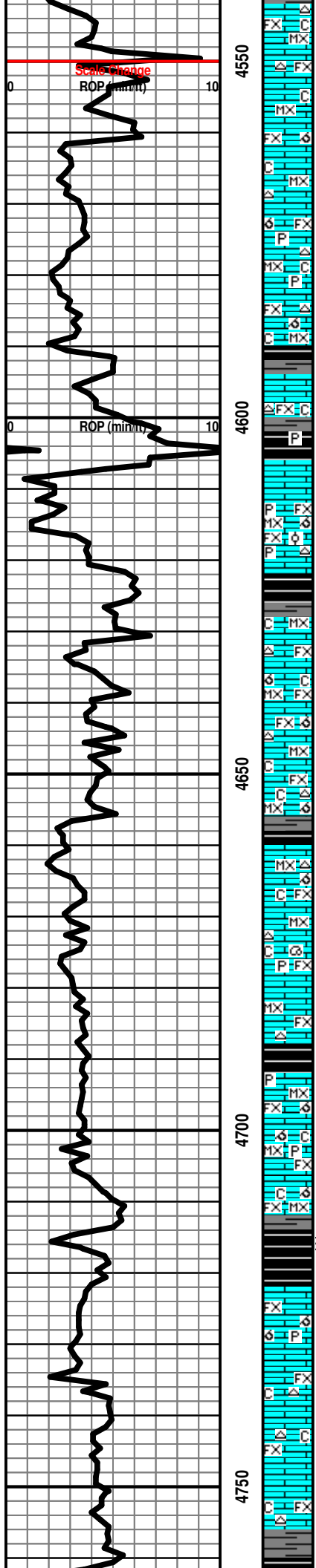
Ls Lt Tan-Wht FxIn Mostly Micrite Grad Por Pin-Pt IxIn Por Cht Wht Op Shp Vit Chalky Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

STARK SHALE 4762' (- 2523)

SH GAS KICK =
53 UNITS.

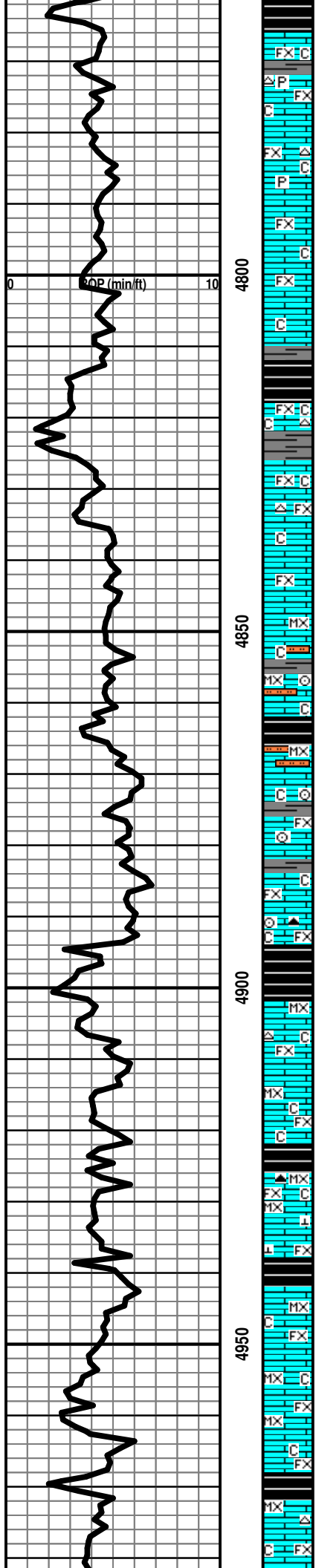
Mudco Ck
@ 4718' @
9:55 AM
6/21/13
Vis 62;
WT=9.45#;
PV=17;
YP= 21;
WL=12.8;
Cake=1;
Chl=9400;
Cal =160;
Sol=7.3%.
LCM= 1#;
DMC=\$
1,811.00

TG C1-C5 150



KANSAS CITY "K" SWOPE 4765' (-2526)

CMC=\$
14,630.70



Ls Lt Tan-Wht FxIn Mostly Micrite Dns Grad Fair Pin-Pt IxIn Por Cht Gry Op Shp Vit Chalky Sh Char (w/Pyr Inclus)-Gry-Blk Carb Aqua Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht FxIn Mostly Micrite Dns Grad Fair Pin-Pt IxIn Por Cht Gry Op Shp Vit Chalky Sh Char (w/Pyr Inclus)-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht FxIn Mostly Micrite Dns Grad Fair Pin-Pt IxIn Por Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht-Gry FxIn Mostly Micrite Dns Grad Fair Pin-Pt IxIn Por Chalky Sh Char Carb-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

HUSHPUCKNEY 4810' (- 2571)

Ls Wht-Gry-Lt Tan FxIn Mostly Micrite Dns Grad Poor Pin-Pt IxIn Por Chalky Sh Char-Gry-Blk Carb-Aqua Tr Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Lt Tan FxIn Mostly Micrite Dns Grad Poor Pin-Pt IxIn Por Cht Wht Op Shp Vit Pyr Mass Chalky Sh Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Lt Tan FxIn Mostly Micrite Dns Grad Poor Pin-Pt IxIn Por Cht Amber Op Shp Vit Pyr Mass Chalky Sh Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Lt Tan FxIn Mostly Micrite Dns Grad Poor Pin-Pt IxIn Por Chalk Sh Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Crm-Wht MicroIn Dns Micrite Chalky Fos (Crin) Sh Char-Gry-Fissil Siltstn Gry-Lt Brn No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Lt Brn Carb Fissil Siltstn Gry-Lt Brn Ls Gry-Crm-Wht MicroIn Dns Micrite Chalky No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Micrite Grad Fair-Med Pin-Pt IxIn Por Barren Fos (Crin) Chalky Sh Blk Carb-Gry-Lt Brn-Aqua/Grn-Red Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Micrite Grad Fair-Med Pin-Pt IxIn Por Barren Chalky Sh Blk Carb-Gry-Lt Brn-Aqua/Grn-Red Soft-Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Gry-Lt Brn-Aqua/Grn-Red Soft-Fissil Ls Wht-Crm FxIn Micrite Grad Fair-Med Pin-Pt IxIn Por Barren Cht Amber-Drk Brn Op Shp Vit Chalky Fos (Crin) No Odor No Stn No Flor NS

MARMATON 4901' (- 2662)

Ls Wht MicroIn-FxIn Dns Micrite Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht MicroIn-FxIn Dns Micrite Chalky Abd Sh Blk Carb- Char- Gry Fissil No Odor No Stn No Flor NS

Ls Wht MicroIn-FxIn Dns Micrite No Vis Por Cht Amber Translu- Op Shp Vit Chalk Abd Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht MicroIn-FxIn Dns Micrite (w/Tr Calc) No Vis Por Chalk Abd Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

PAWNEE 4938' (- 2699)

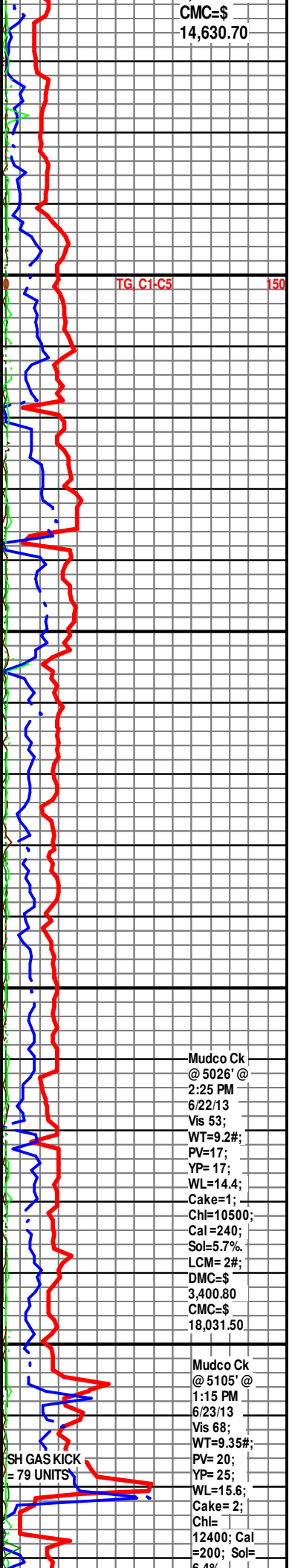
Ls Wht MicroIn-FxIn Dns Micrite No Vis Por Grad Poor Pin-Pt IxIn Por Barren Chalk V Abd Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht MicroIn-FxIn Dns Micrite No Vis Por Barren Chalk V Abd Sh Blk Carb-Char-Gry Fissil AA No Odor No Stn No Flor NS

Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt Por Cht Wht-Crm Op Shp Vit Chalky Sh Blk Carb-Char Fissil No Odor No Stn No Flor NS

FORT SCOTT 4971' (- 2732)

Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt Por Chalky Sh Blk Carb-Char Fissil No Odor No Stn No Flor NS



CHEROKEE SHALE 4986' (- 2747)

Sh Blk Carb-Char Fissil Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Chalky No Odor No Stn No Flor NS

30" CFS @ 5020' Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Chalky Sh Blk Carb-Char Fissil No Odor No Stn No Flor NS

60" CFS @ 5020' Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Chalky Sh Blk Carb-Char Fissil No Odor No Stn No Flor NS

Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite (w/Pyr Includ) Grad Poor IxIn Pin-Pt Por Barren Sh Blk Carb-Char-Gry-Drab Grn-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Lt Tan MicroIn-FxIn (w/Pyr Includ) Dns Micrite Grad Poor IxIn Pin-Pt Por Barren Fos (Brach) Sh Char-Gry-Drab Grn-Aqua-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Lt Tan-Yell Tr MicroIn-FxIn Dns Micrite Grad Poor IxIn Pin-Pt Por Barren Cht Wht-Gry Op Shp Vit Sh Blk Carb-Char-Gry-Drab Grn-Aqua (w/Pyr Includ) Fissil No Odor No Stn No Flor NS

MISSISSIPPIAN 5054' (- 2815)

Ls Wht-Lt Tan-Yell Tr MicroIn-FxIn Micritic Grad Poor-Fair Pin-Pt IxIn Por Cht Wht-Gry-Amber Translu-Op Shp Vit Pyr Mass Chalky Sh Char-Gry (w/Pyr Includ) -Drab Grn-Aqua Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Tan MicroIn-FxIn Micritic Grad Poor Pin-Pt IxIn Por Cht Op Shp Vit Chalky Sh Char-Gry Fissil ? No Odor ? Sil Flor No Stn ? NS

Ls Wht-Lt Tan MicroIn-FxIn Micritic Grad Poor-Fair Pin-Pt IxIn Por (w/? SG) Cht Op Shp Vit Fos (Crin) Chalky Sh Char-Gry Fissil ? V Faint Odor Sil Flor No Stn ? SG

Ls Wht-Lt Tan MicroIn-FxIn Micritic Grad Poor-Fair Pin-Pt IxIn Por (w/SG & Drk Blk Gillsontic Stn Cht Wht-Tan Translu-Op Shp Vit Fos (Crin & Gastro (Turritella)) Chalky Sh Char-Gry-Olive-Maroon Fissil Faint Odor No Flor Sil Stn ? SG

30" CFS @ 5105' Ls Wht-Lt Tan MicroIn-FxIn Micritic Grad Poor-Fair Pin-Pt IxIn Por (w/SG & Drk Blk Gillsontic Stn & Tr Glacu) Cht Wht-Tan Translu-Op Shp Vit Fos (Gastro) Chalky Sh Char-Gry-Olive-Maroon Fissil Faint Odor No Flor Sil Stn ? SG

60" CFS @ 5105' 60" CFS Ls/Dolo Wht-Lt Tan-Tan FxIn Micritic Grad Fair Pin-Pt IxIn Por (w/Tr Glacu Includ & SSG) Cht Amber-Wht Trip (w/Tr Gillsontic Stn Drk Blk Stn) Translu Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Fair Odor Poor-Fair Lt Grn Flor (6 Pcs) Tr Brn Stn SG & VSSO

75" CFS @ 5105' Ls/Dolo AA Cht Wht AA Pyr Mass Fair Inc Odor Sil Inc Flor (Lt Grn) SSG & ? VSSO

60" CFS @ 5116' Ls/Dolo Tan-Wht MicroIn-FxIn Fair IxIn Pin-Pt Por (w/Lt Brn Stn & SG) Grad Poor Sucrosic Poor-Fair VFxIn (w/SG & SSO) Cht Wht AA Fos (Crin) Odor Fair Flor (Lt Grn) SSG & VSSO

MISS. WARSAW 5116' (- 2877)

75" CFS @ 5116' Dolo/Ls Tan-Wht MicroIn-FxIn Fair IxIn Pin-Pt Por Grad Poor-Fair Vug Leached Pin-Pt Por (w/Lt Brn Stn & SG) Grad Sucrosic Poor-Fair VFxIn (w/SG & SSFO Under Heat in Wtr w/ Lt Grn Flor) Cht Wht AA Fos (Crin) Odor Fair Flor (Lt Grn) SG & SSO

60" CFS @ 5125' Dolo Tan-Wht FxIn Poor Pin-Pt IxIn Por (w/Scatt Lt Grn Flor & w/SG & SSO Under Heat in Wtr) Pry Mass Sh AA Faint Odor Sil Flor Sil Lt Brn Stn SSG & VSSO

75" CFS @ 5125' Dolo/Ls Tan-Wht FxIn AA Ls AA Faint Odor Sil Flor Sil Lt Brn Stn VSSO

Dolo Tan-Wht-Lt Tan FxIn Poor Pin-Pt IxIn Por (w/Glacu Includ) Grad Dns Micritic Cht Amber-Wht Translu-Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Abd No Odor NoFlor NoStn NS

Dolo Tan-Wht-Lt Tan FxIn Poor Pin-Pt IxIn Por (w/Glacu Includ) Grad Dns Micritic Cht Amber-Wht Translu-Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Abd No Odor NoFlor NoStn NS

Dolo Tan-Wht-Lt Tan FxIn Poor Pin-Pt IxIn Por (w/Glacu Includ) Grad Dns Micritic Cht Amber-Wht Translu-Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Abd No Odor NoFlor NoStn NS

Dolo Tan-Wht-Lt Tan FxIn Poor Pin-Pt IxIn Por (w/Glacu Includ) Grad Dns Micritic Cht Amber-Wht Translu-Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Abd No Odor NoFlor NoStn NS

Dolo Gry Inc-Tan-Wht-Lt Tan MicroIn-FxIn Poor Pin-Pt IxIn Por (w Glacu Includ) Grad Dns Micritic Cht Wht Translu-Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Abd No Odor NoFlor NoStn NS

30" CFS @ 5200' Dolo Gry Abd-Tan-Wht-Lt Tan MicroIn-FxIn Poor Pin-Pt IxIn Por (w Glacu Includ) Grad Dns Micritic Cht Wht Translu-Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Abd No Odor NoFlor NoStn NS

60" CFS @ 5200' Dolo Gry Abd-Tan-Wht-Lt Tan MicroIn-FxIn Poor Pin-Pt IxIn Por (w Glacu Includ) Grad Dns Micritic Cht Wht Translu-Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Abd No Odor NoFlor NoStn NS

0.4%
LCM=2#;
DMC=\$
870.30
CMC=\$
18,901.80

TG C1-C5 150
DST # 1 ~
5064'-5105'. Times:
30" - 60" - 60" - 90";
Blow: IF=Strong/
BOB/30 Sec. & GTS @
30" (See Gauge
Report). No Blow Back
During ISIP.
FF= Strong Blow BOB/
Instant. No Blow Back
During FSIP.

Recovery: 4791' GIP:
270' TF:150' GCM (5%
G: 95% M); 120
SOWCM (35% G; 2% O;
15% Wtr; 48% M).
Pressures:
IH= 2629#;
FH= 2434#;
IF = 45-68#;
FF = 75-109#;
ISIP = 1089#;
FSIP = 1047#;
T.= 121 degrees. F.
WTR= 125,000 Ppm
Chl.; RW=.055 @ 85
degrees F.

GAS KICK = 60 UNITS.
Gas Gauge FF=
@ 10"= 7.5 Mcf;
@ 20"= 8.2 Mcf;
@ 30"= 8.6 Mcf;
@ 40"= 9.6 Mcf;
@ 50"= 9.9 Mcf;
@ 60"=10.3 Mcf.

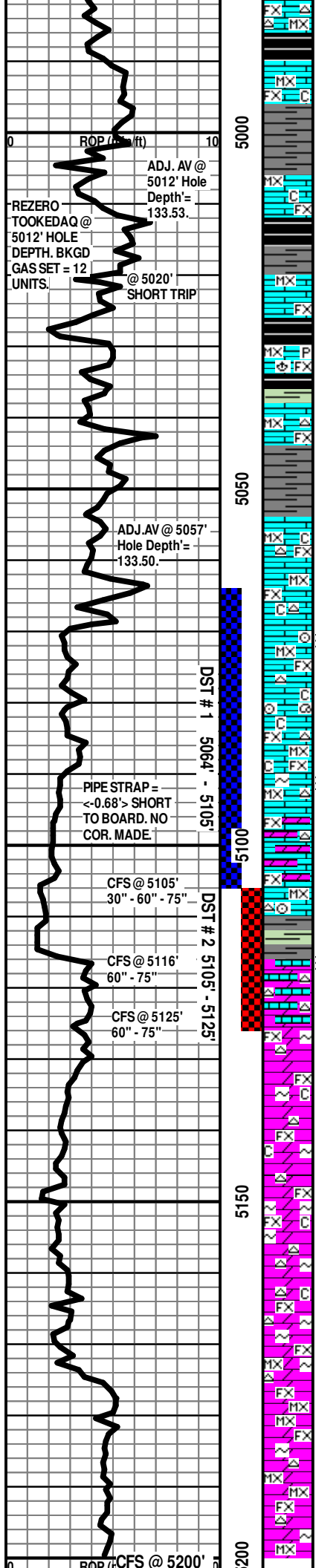
GAS KICK = 87 UNITS.
GAS KICK = 128 UNITS.

Scale Change
TG C1-C5 800
GAS KICK = 318 UNITS.

DST # 2 ~
5105'-5125'. Times:
30" - 60" - 60" - 90";
Blow: IF=Weak
Build/1/4". No Blow
Back During ISIP. FF=
Weak Build/ 1 1/2". No
Blow Back During FSIP.

Recovery: 630' GIP:
65' VSOCMW (1% O;
40% W & 59% M).
Pressures:
IH= 2556#;
FH= 2481#;
IF = 49-33#;
FF = 35-52#;
ISIP = 1052#;
FSIP = 1052#;
T.= 116 degrees. F.;
WTR= 110,000 Ppm
Chl.; RW=.06 @ 86
degrees F.

Mudco Ck @
5125' @ 1:45
PM 6/24/13
Vis 68;
WT=9.0#; PV=
18; YP= 22;
WL=12.8;
Cake= 1;
TG C1-C5 800



30" - 60"

R.T.D. = 5200' (-2961)

L.T.D. = 5186' (-2947)

50

Electric Logs Run By: Weatherford Logging: Dual Induction;
Compensated Density-Neutron; & Microresisitvity Logs.

Geologist Left Location at: 9:00 AM on 06/25/2013

Chi=12800;
Cal=20; Sol=
4.3% LCM=
2#;
DMC=\$
866.80
CMC=\$
19,768.60