



KANSAS CORPORATION COMMISSION 1146456
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

Confidentiality Requested:

Yes No

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: _____



1146456

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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: <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> _____ <i>(Submit ACO-4)</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

June 10, 2013

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

Re: ACO1
API 15-191-22680-00-00
STEWART 'A' 2-31
SE/4 Sec.31-31S-03W
Sumner 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: Evan Stone

Stewart #2-31

31-31s-3w Sumner,KS

Start Date: 2013.04.16 @ 18:42:35

End Date: 2013.04.17 @ 04:17:50

Job Ticket #: 50914 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.24 @ 09:04:05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

McCoy Petroleum Corp
8080 E central Ste 300
Wichita, KS 67206
ATTN: Evan Stone

31-31s-3w Sumner, KS

Stewart #2-31

Job Ticket: 50914

DST#: 1

Test Start: 2013.04.16 @ 18:42:35

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:05

Time Test Ended: 04:17:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 3980.00 ft (KB) To 4005.00 ft (KB) (TVD)

Reference Elevations: 1297.00 ft (KB)

Total Depth: 4005.00 ft (KB) (TVD)

1288.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 72.29 psig @ 3981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.16

End Date:

2013.04.17

Last Calib.:

2013.04.17

Start Time: 18:42:36

End Time:

04:17:50

Time On Btm:

2013.04.16 @ 21:05:50

Time Off Btm:

2013.04.17 @ 02:13:35

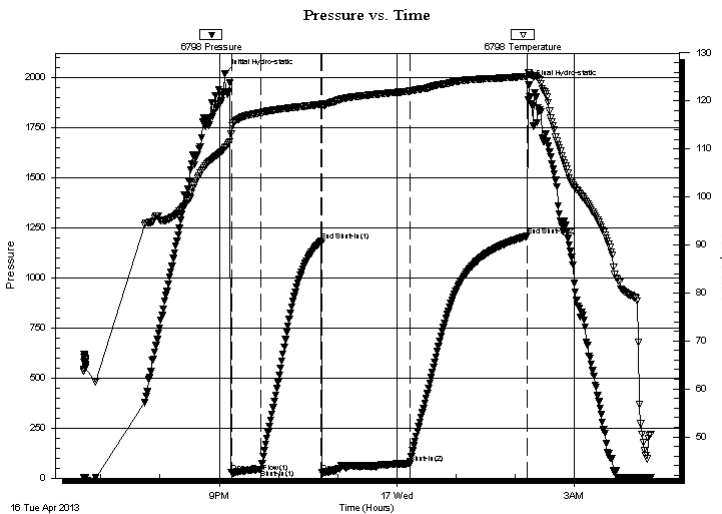
TEST COMMENT: IF: Strong Blow , BOB in 4 minutes

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 60 minutes, Caught Sample, TSTM

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.85	110.21	Initial Hydro-static
7	27.32	113.22	Open To Flow (1)
37	45.59	117.57	Shut-In(1)
98	1183.93	119.29	End Shut-In(1)
99	28.20	119.44	Open To Flow (2)
187	72.29	122.03	Shut-In(2)
307	1209.14	125.14	End Shut-In(2)
308	1963.95	125.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3790 GIP	0.00
178.00	GSY OWCM 66%G 5%O 5%W 24%M	0.88
2.00	Oil	0.03

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: Evan Stone

31-31s-3w Sumner, KS

Stewart #2-31

Job Ticket: 50914

DST#: 1

Test Start: 2013.04.16 @ 18:42:35

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:05

Time Test Ended: 04:17:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 3980.00 ft (KB) To 4005.00 ft (KB) (TVD)

Reference Elevations: 1297.00 ft (KB)

Total Depth: 4005.00 ft (KB) (TVD)

1288.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8367 Outside

Press @ Run Depth: psig @ 3981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.16

End Date: 2013.04.17

Last Calib.: 2013.04.17

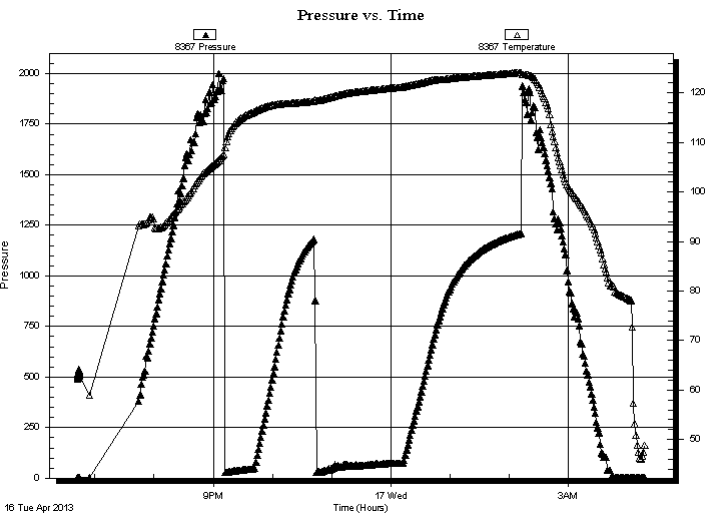
Start Time: 18:42:36

End Time: 04:17:35

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB immediate, GTS in 60 minutes, Caught Sample, TSTM
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3790 GIP	0.00
178.00	GSY OWCM 66%G 5%O 5%W 24%M	0.88
2.00	Oil	0.03

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: Evan Stone

31-31s-3w Sumner,KS
Stewart #2-31
Job Ticket: 50914
Test Start: 2013.04.16 @ 18:42:35

DST#: 1

Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.07 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3980.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3958.00	
Hydraulic tool	5.00			3963.00	
Jars	5.00			3968.00	
Safety Joint	2.00			3970.00	
Packer	5.00			3975.00	27.00 Bottom Of Top Packer
Packer	5.00			3980.00	
Stubb	1.00			3981.00	
Recorder	0.00	6798	Inside	3981.00	
Recorder	0.00	8367	Outside	3981.00	
Perforations	21.00			4002.00	
Bullnose	3.00			4005.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp
8080 E central Ste 300
Wichita, KS 67206
ATTN: Evan Stone

31-31s-3w Sumner,KS
Stewart #2-31
Job Ticket: 50914 **DST#: 1**
Test Start: 2013.04.16 @ 18:42:35

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:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.02 inches			

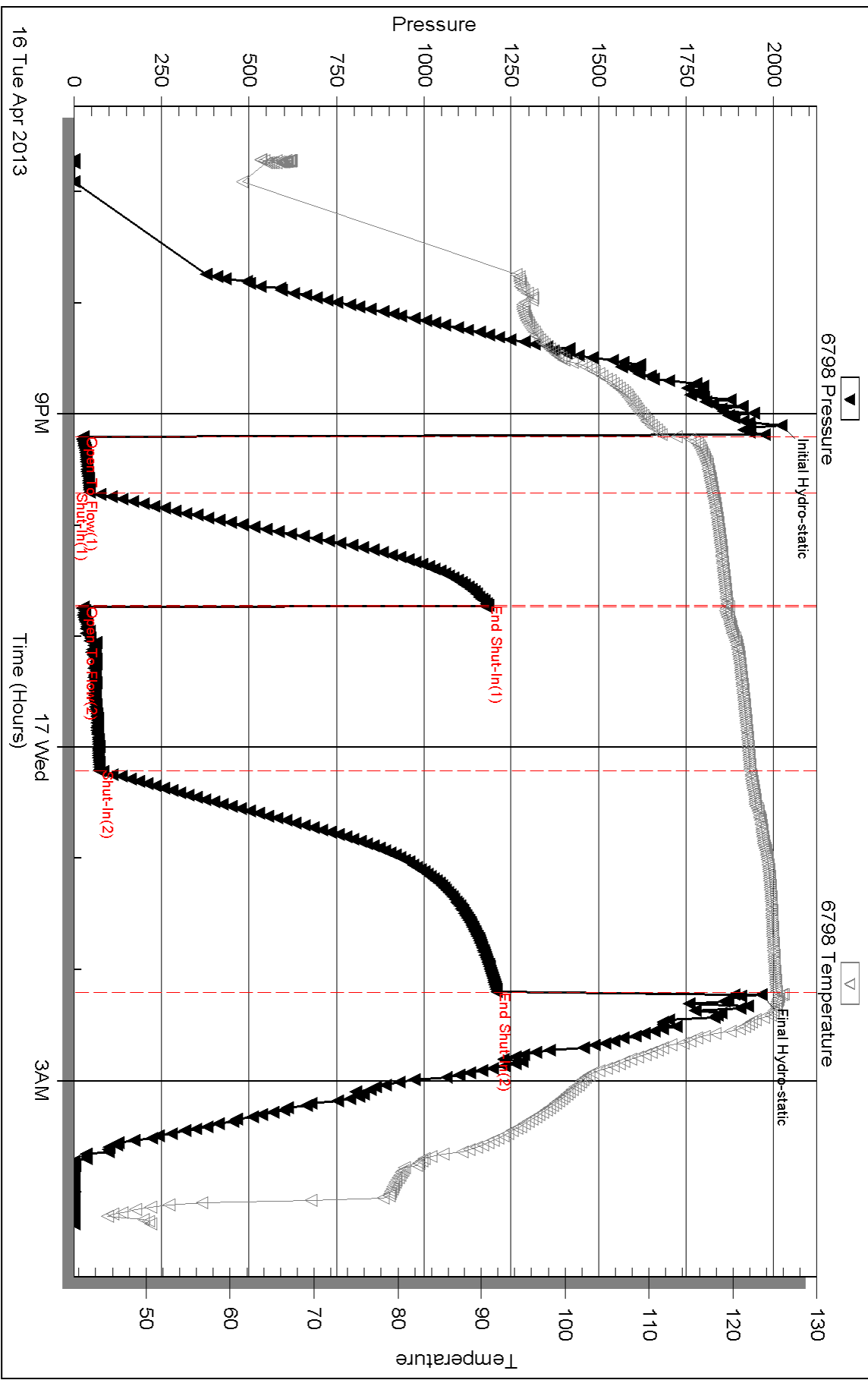
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3790 GIP	0.000
178.00	GSY OWCM 66%G 5%O 5%W 24%M	0.875
2.00	Oil	0.028

Total Length: 180.00 ft Total Volume: 0.903 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

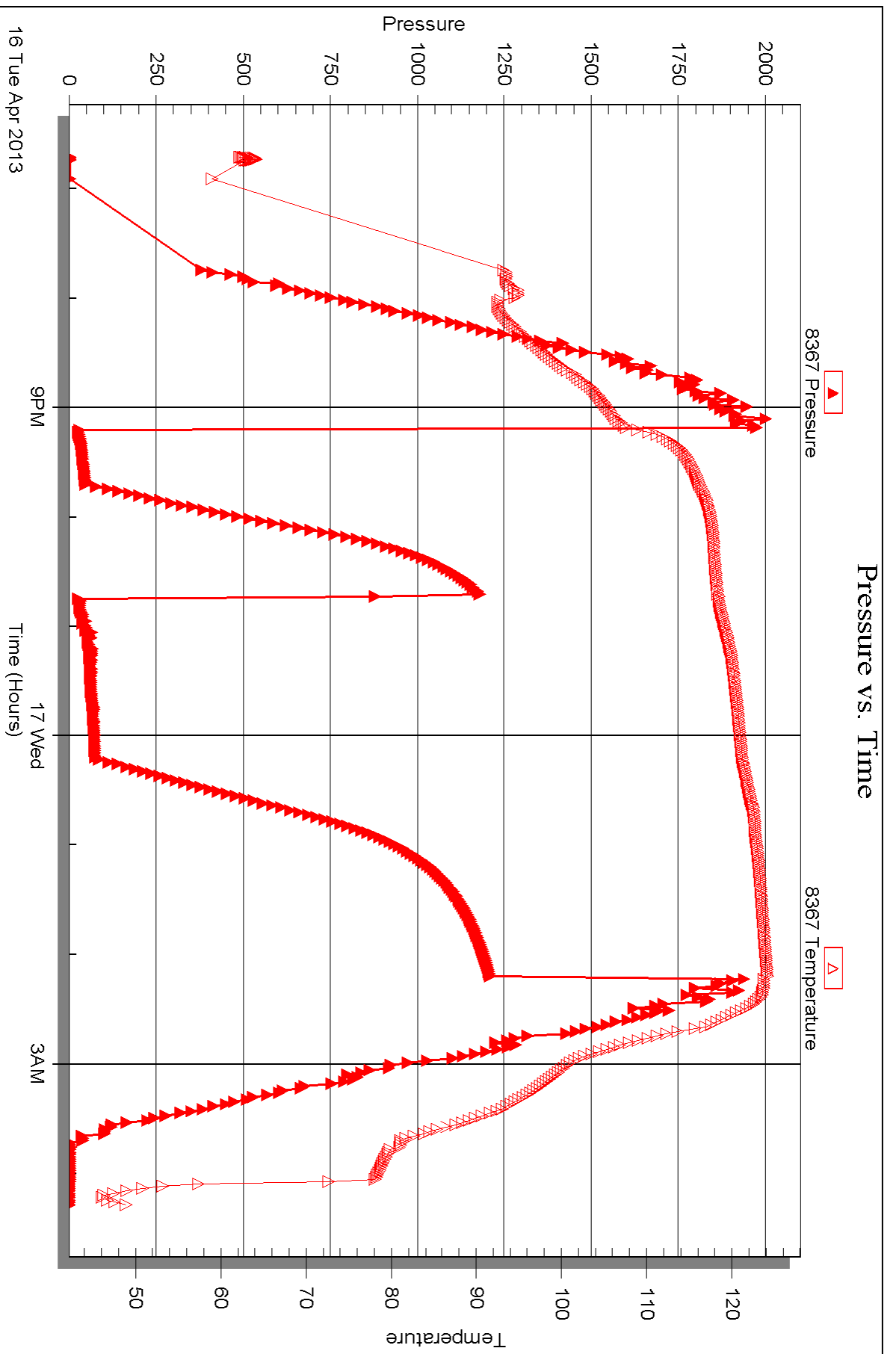


Serial #: 8367

Outside McCoy Petroleum Corp

Slew art #2-31

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

8080 E central Ste 300
Wichita, KS 67206

ATTN: Evan Stone

Stewart #2-31

31-31s-3w Sumner,KS

Start Date: 2013.04.19 @ 02:08:15

End Date: 2013.04.19 @ 11:22:45

Job Ticket #: 50915 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.24 @ 09:03:22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

McCoy Petroleum Corp
8080 E Central Ste 300
Wichita, KS 67206
ATTN: Evan Stone

31-31s-3w Sumner, KS

Stewart #2-31

Job Ticket: 50915

DST#: 2

Test Start: 2013.04.19 @ 02:08:15

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:50:15
 Time Test Ended: 11:22:45
 Interval: **4448.00 ft (KB) To 4458.00 ft (KB) (TVD)**
 Total Depth: 4458.00 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: 1297.00 ft (KB)
 1288.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6798

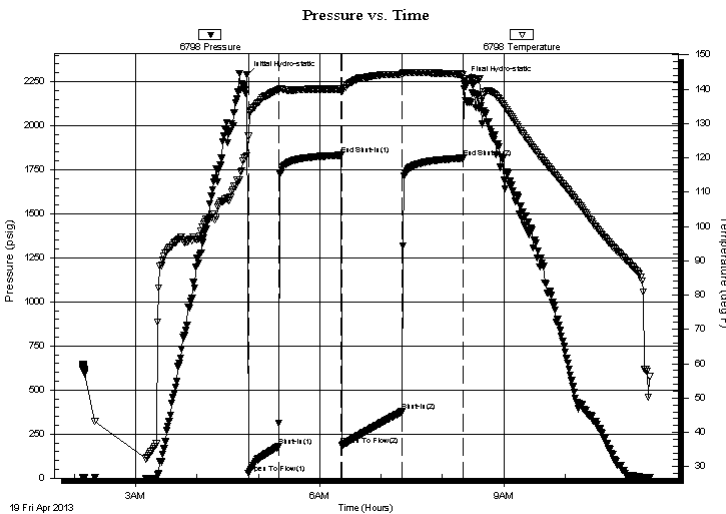
Inside

Press @ Run Depth: 377.46 psig @ 4449.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.19 End Date: 2013.04.19 Last Calib.: 2013.04.19
 Start Time: 02:08:16 End Time: 11:22:45 Time On Btm: 2013.04.19 @ 04:49:00
 Time Off Btm: 2013.04.19 @ 08:21:15

TEST COMMENT: IF: Fair Blow, BOB in 19 minutes
 IS: Very Weak Surface Blow Back
 FF: Weak Blow, BOB in 28 minutes
 FS: Weak Surface Blow Back

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.96	120.71	Initial Hydro-static
2	28.19	126.29	Open To Flow (1)
31	181.35	139.98	Shut-In(1)
92	1832.32	140.03	End Shut-In(1)
93	185.37	139.42	Open To Flow (2)
152	377.46	144.38	Shut-In(2)
212	1815.84	144.34	End Shut-In(2)
213	2256.93	143.04	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
682.00	Water	7.95
68.00	MCW 40%M 60%W	0.95

* 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: Evan Stone

31-31s-3w Sumner, KS

Stewart #2-31

Job Ticket: 50915

DST#: 2

Test Start: 2013.04.19 @ 02:08:15

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:50:15
 Time Test Ended: 11:22:45
 Interval: **4448.00 ft (KB) To 4458.00 ft (KB) (TVD)**
 Total Depth: 4458.00 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: 1297.00 ft (KB)
 1288.00 ft (CF)
 KB to GR/CF: 9.00 ft

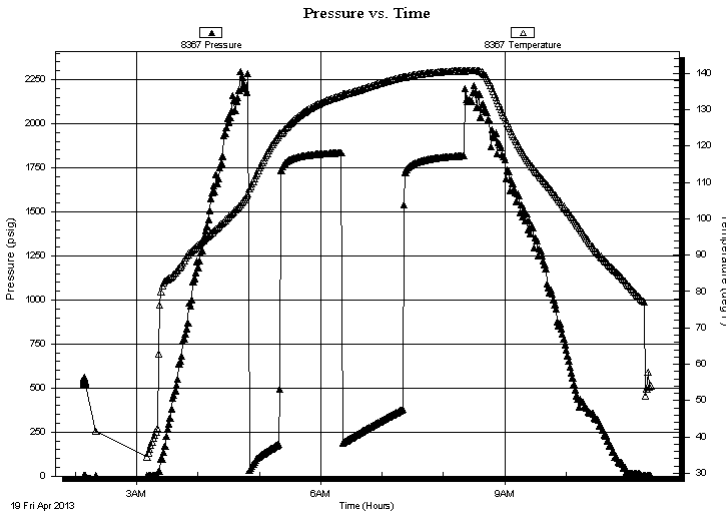
Serial #: 8367

Outside

Press @ Run Depth: psig @ 4449.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.19 End Date: 2013.04.19 Last Calib.: 2013.04.19
 Start Time: 02:08:16 End Time: 11:22:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 19 minutes
 IS: Very Weak Surface Blow Back
 FF: Weak Blow , BOB in 28 minutes
 FS: Weak Surface Blow Back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
682.00	Water	7.95
68.00	MCW 40%M 60%W	0.95

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp

31-31s-3w Sumner,KS

8080 E central Ste 300
Wichita, KS 67206

Stewart #2-31

Job Ticket: 50915

DST#: 2

ATTN: Evan Stone

Test Start: 2013.04.19 @ 02:08:15

Tool Information

Drill Pipe:	Length: 4270.00 ft	Diameter: 3.80 inches	Volume: 59.90 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.78 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4448.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	37.00 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			4426.00	
Hydraulic tool	5.00			4431.00	
Jars	5.00			4436.00	
Safety Joint	2.00			4438.00	
Packer	5.00			4443.00	27.00 Bottom Of Top Packer
Packer	5.00			4448.00	
Stubb	1.00			4449.00	
Recorder	0.00	6798	Inside	4449.00	
Recorder	0.00	8367	Outside	4449.00	
Perforations	6.00			4455.00	
Bullnose	3.00			4458.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp
8080 E central Ste 300
Wichita, KS 67206
ATTN: Evan Stone

31-31s-3w Sumner,KS
Stewart #2-31
Job Ticket: 50915 **DST#: 2**
Test Start: 2013.04.19 @ 02:08:15

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:	95000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

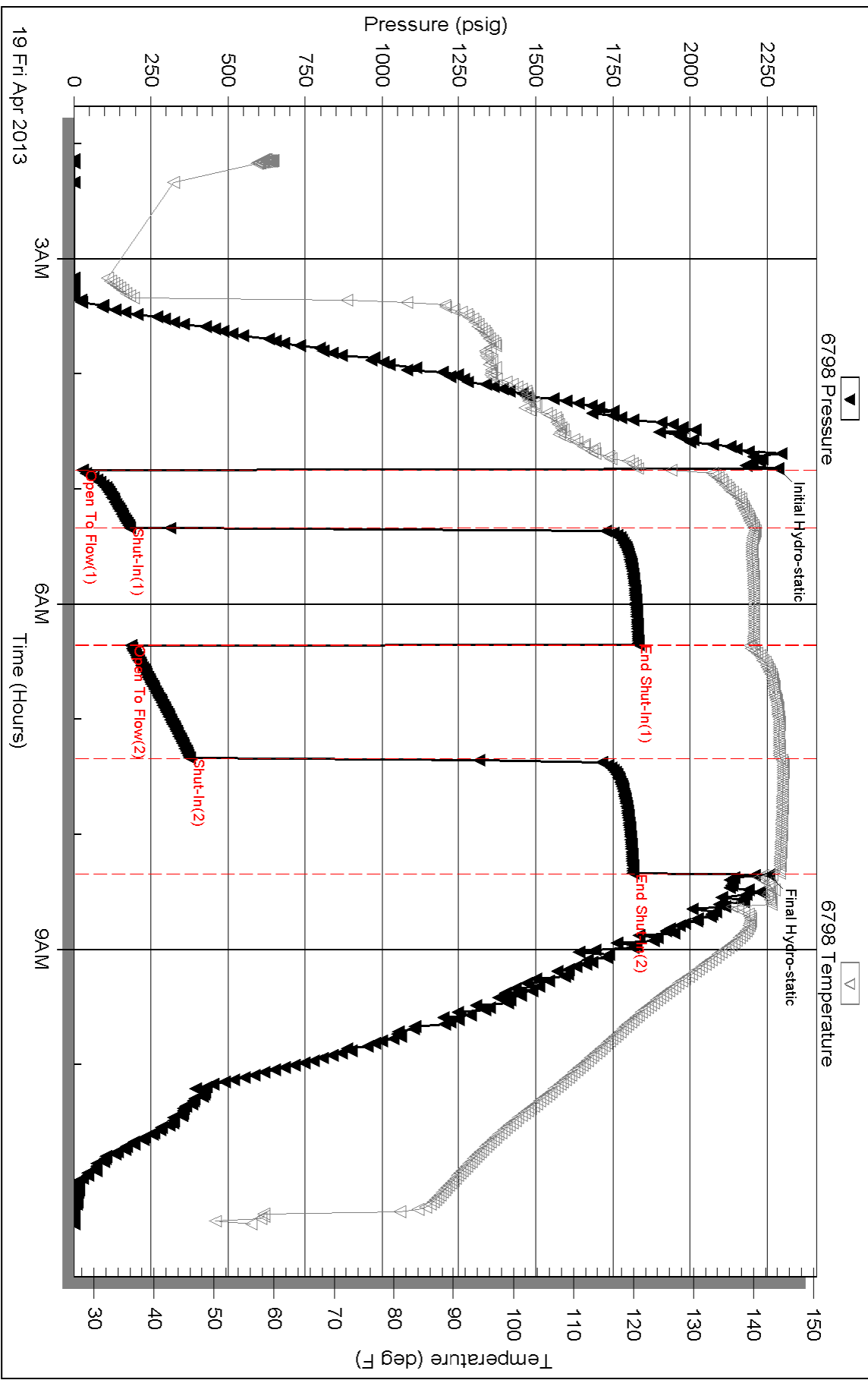
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
682.00	Water	7.945
68.00	MCW 40%M 60%W	0.954

Total Length: 750.00 ft Total Volume: 8.899 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW w as .12 @ 54 degrees

Pressure vs. Time



Serial #: 8367

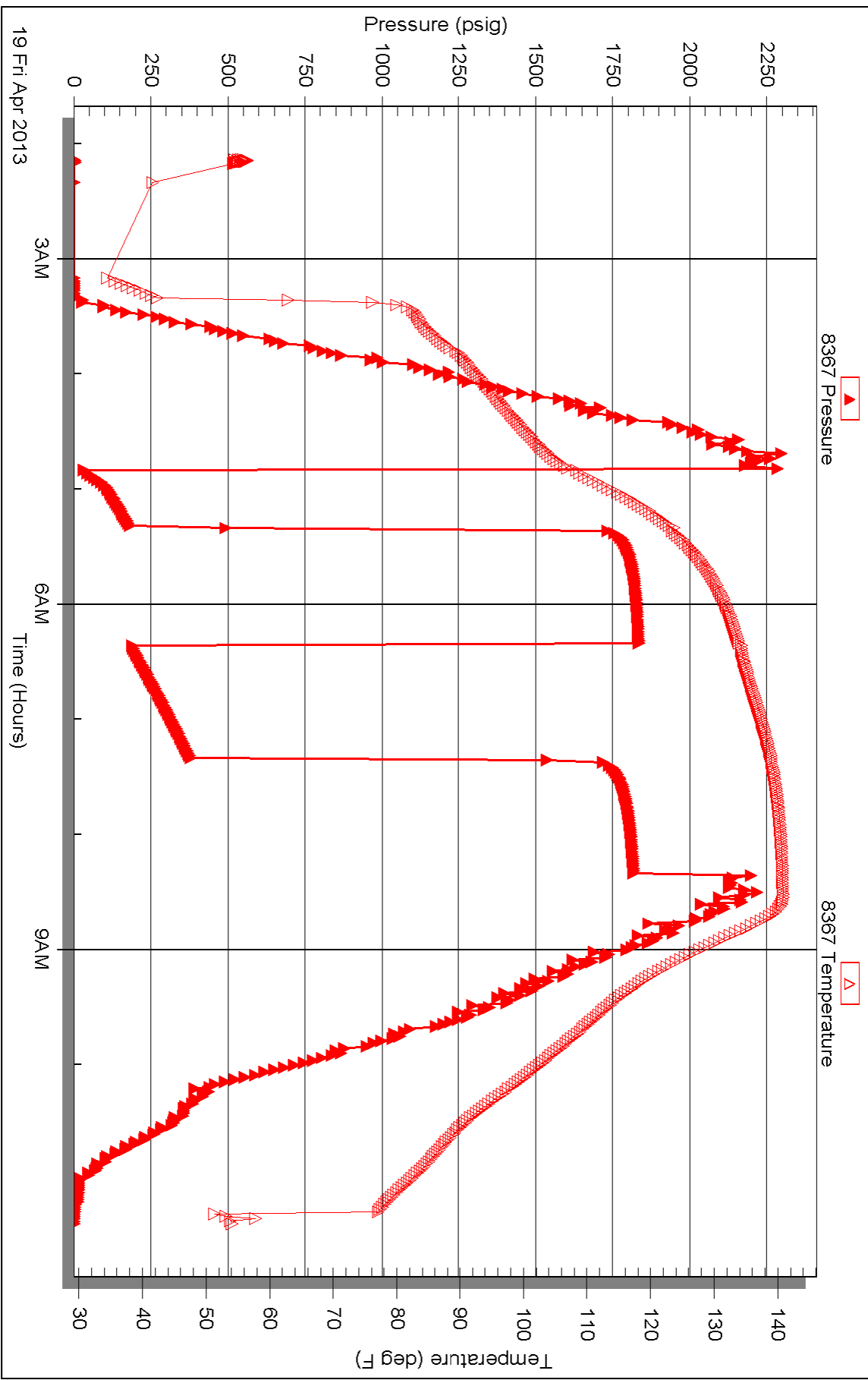
Outside

McCoy Petroleum Corp

Slew art #2-31

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50914

4/10

Well Name & No. Stewart A 2-31 Test No. 1 Date 04/16/13
 Company McCoy Petroleum Corp Elevation 1297 KB 1288 GL
 Address 8080 E Central Ste 300 Wichita, KS 67206
 Co. Rep / Geo. Evan Stone Rig Sterling 4
 Location: Sec. 31 Twp. 31S Rge. 3W Co. Sumner State KS

Interval Tested 3980 - 4005 Zone Tested Mississippi
 Anchor Length 25 ~~3975~~ Drill Pipe Run 3792 Mud Wt. 9.3
 Top Packer Depth 3975 ~~3975~~ Drill Collars Run 179 Vis 52
 Bottom Packer Depth 3975 ~~3975~~ Wt. Pipe Run 0 WL 9.6
 Total Depth 4005 Chlorides 3500 ppm System LCM 4

Blow Description IF: Strong Blow, BOB in 4 minutes
ISI: NO Blow Back

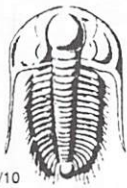
FF: Strong Blow, BOB Immediate, GTS in 60 min, caught sample, TSTM
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3790</u>	<u>GIP</u>				
<u>2</u>	<u>oil</u>				
<u>178</u>	<u>GSP OWCM</u>	<u>66</u>	<u>5</u>	<u>5</u>	<u>24</u>
Rec Total	<u>180</u>	BHT	<u>126</u>	Gravity	<u>NIC</u>
		API RW	<u>NIC</u>	@	<u>NIC</u>
		F Chlorides	<u>NIC</u>		ppm

(A) Initial Hydrostatic 2022 Test 1250 T-On Location 18:00
 (B) First Initial Flow 27 Jars 250 T-Started 18:42
 (C) First Final Flow 46 Safety Joint 75 T-Open 21:12
 (D) Initial Shut-In 1184 Circ Sub _____ T-Pulled 02:12
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 04:17
 (F) Second Final Flow 72 Mileage (180) 279 Comments note 1
 (G) Final Shut-In 1209 Sampler _____
 (H) Final Hydrostatic 1964 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1854 Sub Total 0
 Total 1854 MP/DST Disc't _____

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50915

4/10

Well Name & No. Stewart A 2-31 Test No. 2 Date 04/19/13
 Company McCoy Petroleum Corp Elevation 1297 KB 1288 GL
 Address 8080 E Central Ste 300 Wichita, KS 67206
 Co. Rep / Geo. Evan Stone Rig Sterling 4
 Location: Sec. 31 Twp. 31S Rge. 3W Co. Sumner State KS

Interval Tested 4448 - 4458 Zone Tested Simpson
 Anchor Length 10 Drill Pipe Run 4270 Mud Wt. 9.4
 Top Packer Depth 4443 Drill Collars Run 178 Vis 57
 Bottom Packer Depth 4448 Wt. Pipe Run 0 WL 10.4
 Total Depth 4458 Chlorides 4000 ppm System LCM 6

Blow Description IF: Fair Blow, BOB in 19 minutes
ISI: Very weak surface blow back
FF: weak blow, BOB in 28 minutes
FSI: weak surface blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>68</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
<u>682</u>	<u>water</u>				

Rec Total 750 BHT 143 Gravity N/C API RW .12 @ 54 °F Chlorides 95000 ppm

(A) Initial Hydrostatic <u>2286</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>01:30</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:08</u>
(C) First Final Flow <u>181</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:50</u>
(D) Initial Shut-In <u>1832</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>08:20</u>
(E) Second Initial Flow <u>185</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:22</u>
(F) Second Final Flow <u>377</u>	<input checked="" type="checkbox"/> Mileage <u>(180)</u> <u>279</u>	Comments <u>Motel</u>
(G) Final Shut-In <u>1816</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2257</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>708.33</u>
Final Shut-In <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>1</u> 1d 21.25	Total <u>2562.33</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1854</u>	

Approved By [Signature] Our Representative [Signature]

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ACO-1 Supplemental Information

SAMPLE TOPS Structure
McCoy Petroleum Corporation
Stewart 'A' #2-31
W2 NE SW SE
990'FSL & 1750'FEL
Sec 31-31s-3w
KB: 1297'

	Depth	Datum
Heebner	2690	-1393
Iatan	2994	-1697
Stalnaker Sd	3026	-1729
Kansas City	3316	-2019
KC Top Zone	3326	-2029
KC "A"	3341	-2044
KC "B"	3379	-2082
Stark	3456	-2159
Swope	3474	-2177
Hushpuckney	3502	-2205
Hertha	3518	-2221
BKC	3576	-2279
Cherokee	3775	-2478
Miss. Chert	3976	-2673
Warsaw Pors.	3982	-2685
Osage	4126	-2829
Low Miss. Por.	4300	-3003
Kinderhook SH	4366	-3069
Chattanooga	4419	-3122
Simpson Sand	4448	-3151
RTD	4458	-3161

LOG TOPS
McCoy Petroleum Corporation
Stewart 'A' #2-31
W2 NE SW SE
990'FSL & 1750'FEL
Sec 31-31s-3w
KB: 1297'

	Depth	Datum
Heebner	2686	-1389
Iatan	2990	-1693
Stalnaker Sd	3020	-1723
Kansas City	3312	-2015
KC Top Zone	3320	-2023
KC "A"	3336	-2039
KC "B"	3374	-2077
Stark	3453	-2156
Swope	3469	-2172
Hushpuckney	3497	-2200
Hertha	3506	-2209
BKC	3572	-2275
Cherokee	3770	-2473
Miss. Chert	3957	-2660
Warsaw Pors.	3983	-2686
Osage	4120	-2823
Low Miss. Por.	4287	-2990
Kinderhook SH	4353	-3056
Chattanooga	4410	-3113
Simpson Sand	4448	-3151
LTD	4454	-3157

QUALITY WELL SERVICE, INC.

5834

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

OFFICE 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	4-11-13	Sec.	31	Twp.	31	Range	3	County	Sumner	State	Ks	On Location	11:45 PM	Finish	
Lease	STEWART A	Well No.	2-31		Location		Argonia Ks 5 E 2 N 1/4 W N. A. 0								
Contractor	STELING # 4				Owner		To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	SURFACE				Hole Size		12 1/4								
Hole Size	12 1/4				T.D.		280								
Csg.	3 5/8 23'				Depth		276.88								
Tbg. Size					Depth		Charge To								
Tool					Depth		M/C 604 PET								
Cement Left in Csg.	30				Shoe Joint		Street								
Meas Line					Displace		City State								
EQUIPMENT							The above was done to satisfaction and supervision of owner agent or contractor.								
							Cement Amount Ordered 250 x 60/40 Poz								
							2 1/2 GEL 3 1/2 CC 1/4" CF.								
Pumptrk	8	No.	BRADY		Common		150								
Bulktrk	10	No.	M.K.		Poz. Mix		100								
Bulktrk		No.			Gel.		4								
Pickup		No.	TOTO		Calcium		3								
JOB SERVICES & REMARKS							Hulls								
Rat Hole							Salt								
Mouse Hole							Flowseal 62.5								
Centralizers							Kol-Seal								
Baskets							Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
Run 6 3/4's 3 5/8 23' csg							Sand								
SET 2 276.88							Handling 262								
							Mileage 65								
M.K. Pump 250 x 60/40 Poz							FLOAT EQUIPMENT								
2 1/2 GEL 3 1/2 CC 1/4" CF.							Guide Shoe								
14.7 gal 1.27 ft3							Centralizer								
							Baskets								
SHUT DOWN Release 3 5/8 WOODEN PLS							AFU Inserts								
							Float Shoe								
DISP 15.8 Bbls total							Latch Down								
							3 5/8 WOODEN PLS 1 EA								
Circ QMT TO P. +							Poz mileage 65								
							Pumptrk Charge 0.500 ft								
PLUG DOWN 2 1.45 AM							Mileage 65								
							Tax								
							Discount								
X Signature <i>[Signature]</i>							Total Charge								

QUALITY WELL SERVICE, INC.

5872

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	4-20-13	Sec.	31	Twp.	31	Range	3	County	Sumner	State	Ks	On Location	4:15 AM	Finish	10:15
Lease	STEWART A	Well No.	2-31			Location @ Argonia Ks SE to Milan Rd									
Contractor	STEDING #4				Owner ZW W 17 to										
Type Job	Longstings				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	7 7/8		T.D.		4458										
Csg.	4 1/2 10.5		Depth		4456										
Tbg. Size			Depth		Charge To MCCOY PET										
Tool			Depth		Street										
Cement Left in Csg.			Shoe Joint		42.57										
Meas Line			Displace		70.2 Bbls										
EQUIPMENT											The above was done to satisfaction and supervision of owner agent or contractor.				
Pumptrk	8	No.	M.KE		Common 450										
Bulktrk	7	No.	DEREK		Poz. Mix										
Bulktrk		No.	BEAM		Gel. 8										
Pickup		No.	TODD		5-11P Calcium 106 #										
JOB SERVICES & REMARKS											Hulls 37 212 #				
Rat Hole	255x				Salt 54										
Mouse Hole	205x				Flowsoal 317 #										
Centralizers	1-4-8-10-16-21-23-25-28-29-39				Kol-Seal 45										
Baskets	9-22				Mud CLR 48 1500 gal										
D/V or Port Collar					CFL-117 or CD110 CAF 38										
Run 106 #s 4 1/2 10.5 # csg				Sand											
SET @ 4456				Handling 557											
1 # @ 42.57 Float shoe @ 40 Baffle				Mileage 65											
FLOAT EQUIPMENT															
Pump 10 Bbls M. Flush				Guide Shoe											
Pump 5 Bbls 1120				Centralizer 4 1/2 11 EA											
Pump 10 Bbls M. Flush				Baskets 4 1/2 2 EA											
Mix @ Pump 400x Q Pro C				AFU Inserts											
14.3 #/gal 1.53 #13				Float Shoe 4 1/2 1 EA											
SHUT DOWN wash pump & lines				Latch Down 4 1/2 1 EA											
SMIT DISP															
40 Bbls 2 1/2 BT 500'				LMU 65											
70.2 Bbl total				Pumptrk Charge Longsting											
plug down 1700' Release & HOLD				Mileage 65											
COSS CURE thru 103															
Thanks TODD-DARRI DEREK - M.KE -															
Signature											Tax				
											Discount				
											Total Charge				

MPC Natural Gas • Crude Oil
Exploration & Production
McCOY PETROLEUM CORPORATION
Wichita, Kansas

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

Well Name: Stewart 'A' #2-31
Location: Sec. 31 - T31S - R3W, Sumner County, KS
License Number: API #: 15-191-22680
Spud Date: April 9, 2013
Surface Coordinates: W/2 NE SW SE
990' FSL & 1750' FEL
Region: Love-Three North
Drilling Completed: April 18, 2013
Bottom Hole Coordinates:
Ground Elevation (ft): 1288' K.B. Elevation (ft): 1297'
Logged Interval (ft): 2900' To: 4458' Total Depth (ft): 4458' RTD
Formation: Simpson
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: McCoy Petroleum Corporation, License #5003
Address: 8080 E. Central Ave., Suite 300
Wichita, KS 67206

GEOLOGIST

Name: Evan Stone
Company: McCoy Petroleum Corporation
Address: 8080 E. Central Ave., Suite 300
Wichita, KS 67206

REMARKS

Surface Casing: Spud at 4:15 pm on 04/09/13. Drilled 12-1/4" hole to 280'. Ran 6 joints of new 23# 8-5/8" surface casing, Tallied 265.88', set at 276.88' KB. Welded straps on bottom 3 joints. Tacked collars on remainder. Cemented with 250 sks 60/40 Poz; 2% Gel; 3% CC & 1/4# CF. Plug down at 1:45 am on 04/10/13. Cement did circulate. Quality Cementing ticket #5834.
Deviation Surveys Taken: @ 4005' = 2.5°; @ 4458' = 1°



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp

31-31S-3W Sumner

8080 E central Ste 300
Wichita, KS 67206

Stewart 2-31

Job Ticket: 50914

DST#: 1

ATTN: Evan Stone

Test Start: 2013.04.16 @ 18:42:35

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:05

Time Test Ended: 04:17:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: **3980.00 ft (KB) To 4005.00 ft (KB) (TVD)**

Total Depth: 4005.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1297.00 ft (KB)

1288.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 72.29 psig @ 3981.00 ft (KB)

Start Date: 2013.04.16

End Date:

2013.04.17

Start Time: 18:42:36

End Time:

04:17:50

Capacity: 8000.00 psig

Last Calib.: 2013.04.17

Time On Btm: 2013.04.16 @ 21:05:50

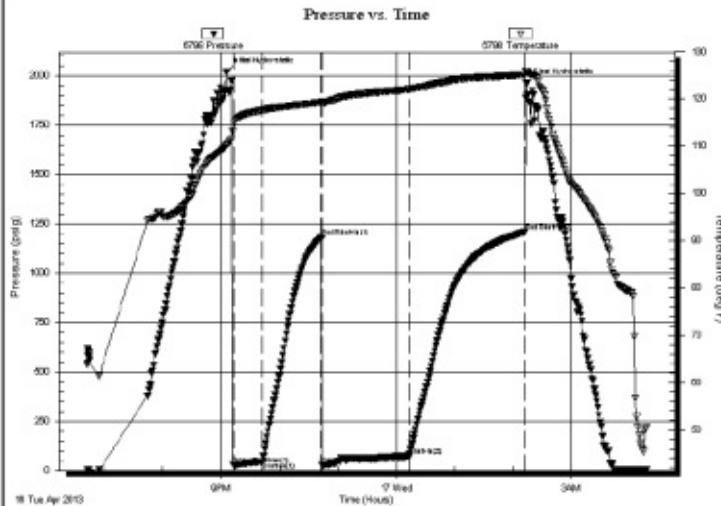
Time Off Btm: 2013.04.17 @ 02:13:35

TEST COMMENT: IF: Strong Blow, BOB in 4 minutes

IS: No Blow Back

FF: Strong Blow, BOB immediate, GTS in 60 minutes, Caught Sample, TSTM

FSt: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.85	110.21	Initial Hydro-static
7	27.32	113.22	Open To Flow (1)
37	45.59	117.57	Shut-In(1)
98	1183.93	119.29	End Shut-In(1)
99	28.20	119.44	Open To Flow (2)
187	72.29	122.03	Shut-In(2)
307	1209.14	125.14	End Shut-In(2)
308	1963.95	125.81	Final Hydro-static

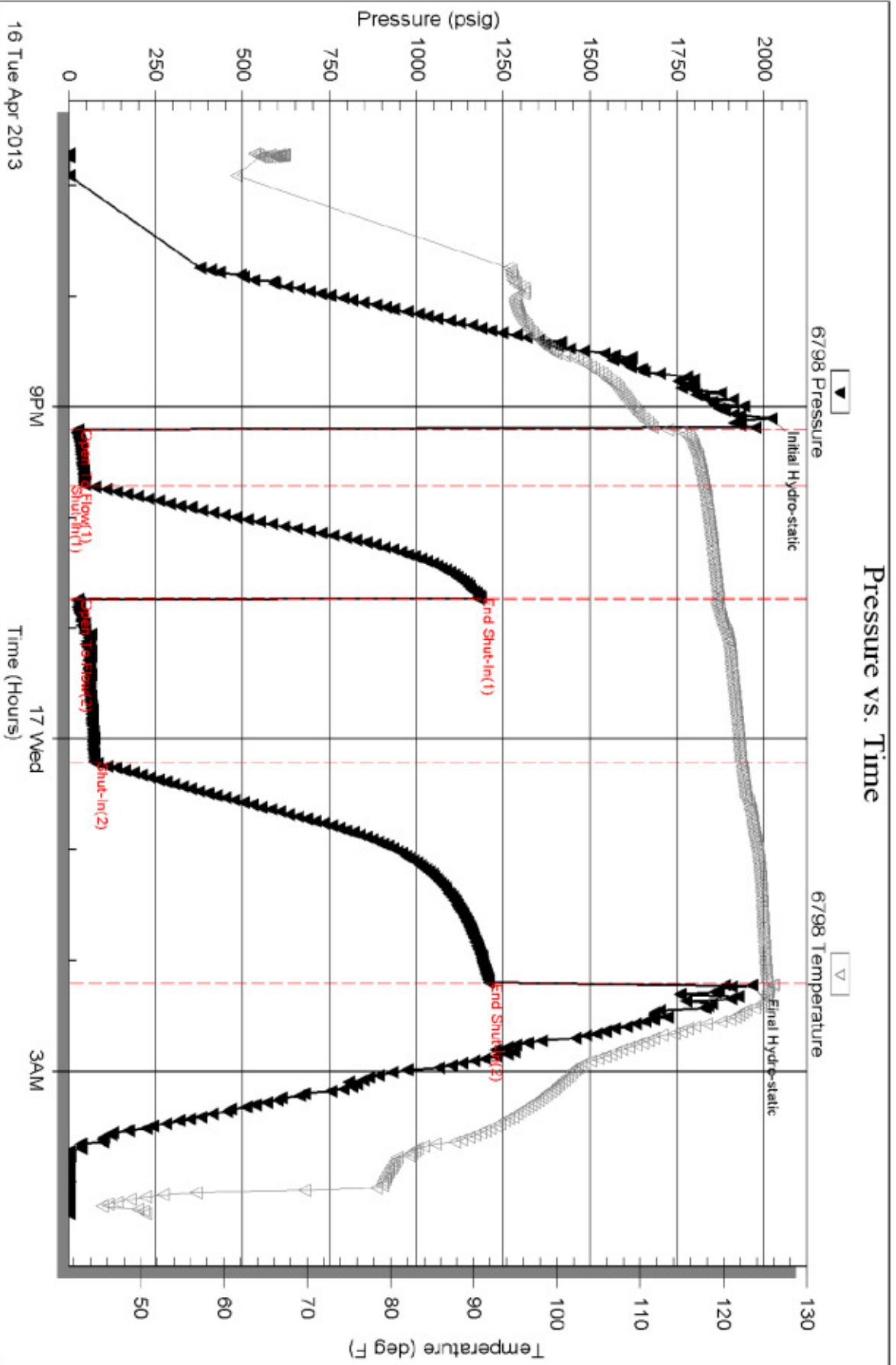
Recovery

Length (ft)	Description	Volume (bbl)
0.00	3790 GIP	0.00
178.00	GSY OWCM 66%G 5%O 5%W 24%M	0.88
2.00	Oil	0.03

Gas Rates

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

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp

31-31S-3W Sumner

8080 E central Ste 300
Wichita, KS 67206

Stewart 2-31

Job Ticket: 50915

DST#: 2

ATTN: Evan Stone

Test Start: 2013.04.19 @ 02:08:15

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:50:15

Time Test Ended: 11:22:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: **4448.00 ft (KB) To 4458.00 ft (KB) (TVD)**

Total Depth: 4458.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1297.00 ft (KB)

1288.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 377.46 psig @ 4449.00 ft (KB)

Start Date: 2013.04.19

End Date: 2013.04.19

Start Time: 02:08:16

End Time: 11:22:45

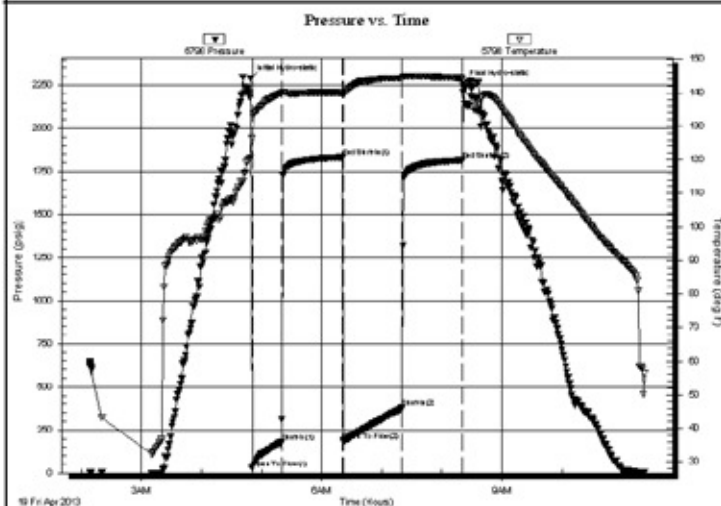
Capacity: 8000.00 psig

Last Calib.: 2013.04.19

Time On Btm: 2013.04.19 @ 04:49:00

Time Off Btm: 2013.04.19 @ 08:21:15

TEST COMMENT: IF: Fair Blow , BOB in 19 minutes
IS: Very Weak Surface Blow Back
FF: Weak Blow , BOB in 28 minutes
FSI: Weak Surface Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.96	120.71	Initial Hydro-static
2	28.19	126.29	Open To Flow (1)
31	181.35	139.98	Shut-in(1)
92	1832.32	140.03	End Shut-in(1)
93	185.37	139.42	Open To Flow (2)
152	377.46	144.38	Shut-in(2)
212	1815.84	144.34	End Shut-in(2)
213	2256.93	143.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
682.00	Water	7.95
68.00	MCW 40%M 60%W	0.95

* Recovery from multiple tests

Gas Rates

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

Serial # 6798

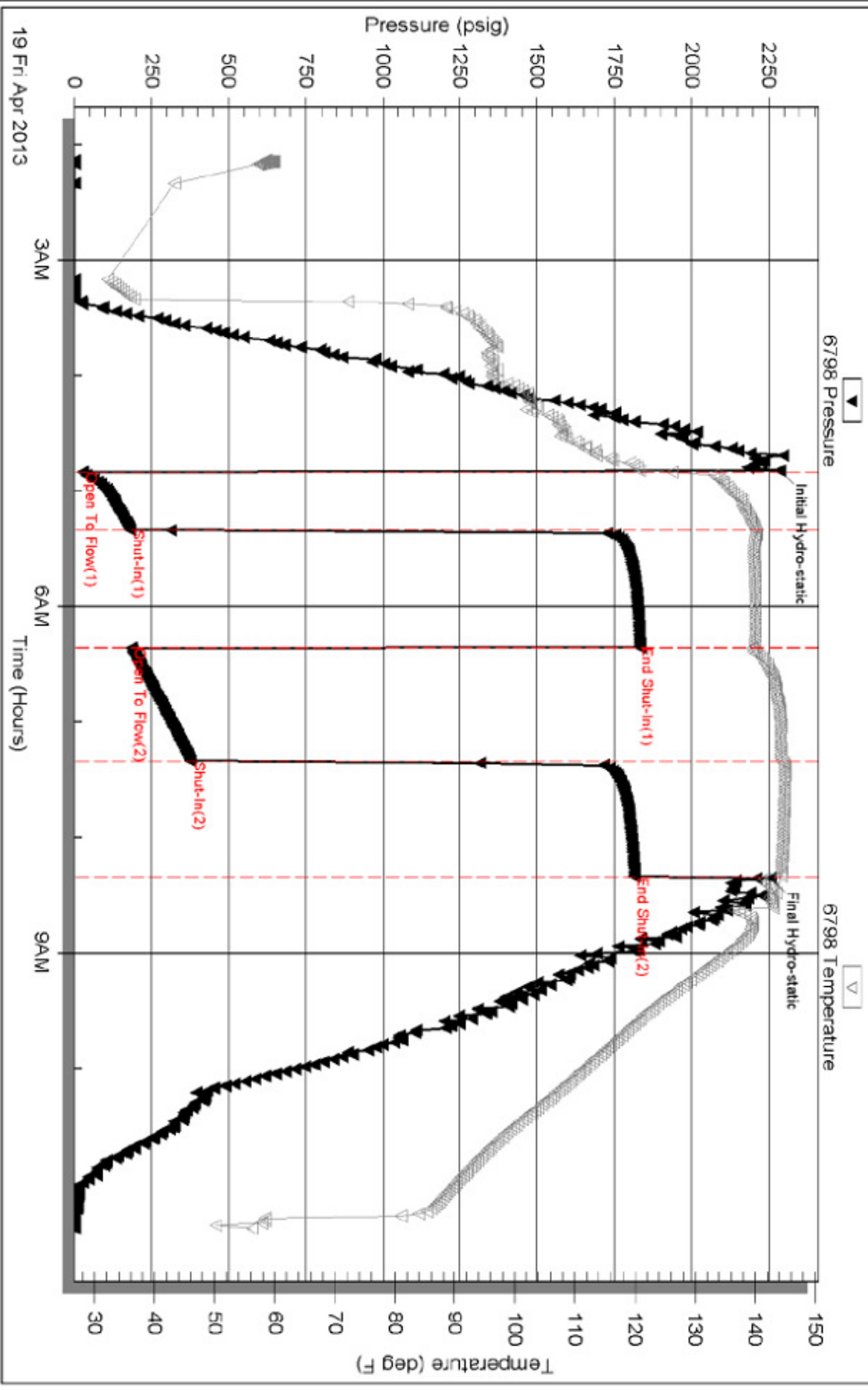
Inside

McCoy Petroleum Corp

Stew art 2-31

DST Test Number: 2







Pressure vs. Time






LEGEND

LITHOLOGY

-  Chert
-  Dolomite
-  Cherty dolo
-  Gypsum
-  Limestone
-  Oolitic ls
-  Cherty ls
-  Sandy ls
-  Shaly ls
-  Salt

-  Shale
-  Carb shale
-  Silty shale
-  Sandy shale
-  Siltstone
-  Sandstone

MINERAL






-  Calcite
-  Chert
-  Glauconite

-  Pyrite
-  Sand
-  Silt

STRINGER



-  Dolomite
-  Gypsum
-  Limestone
-  Siltstone
-  Sandstone

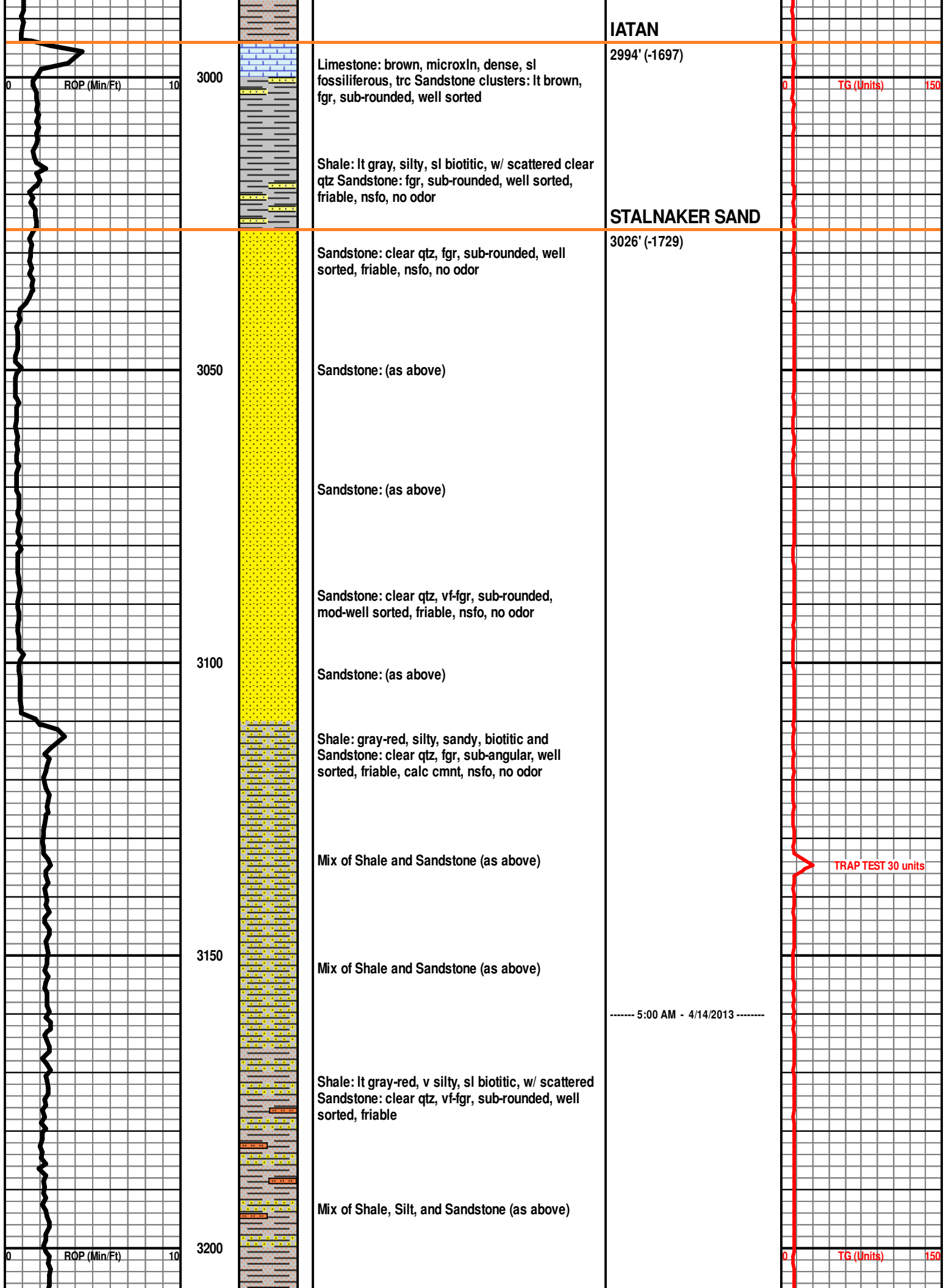
OIL/GAS SHOW

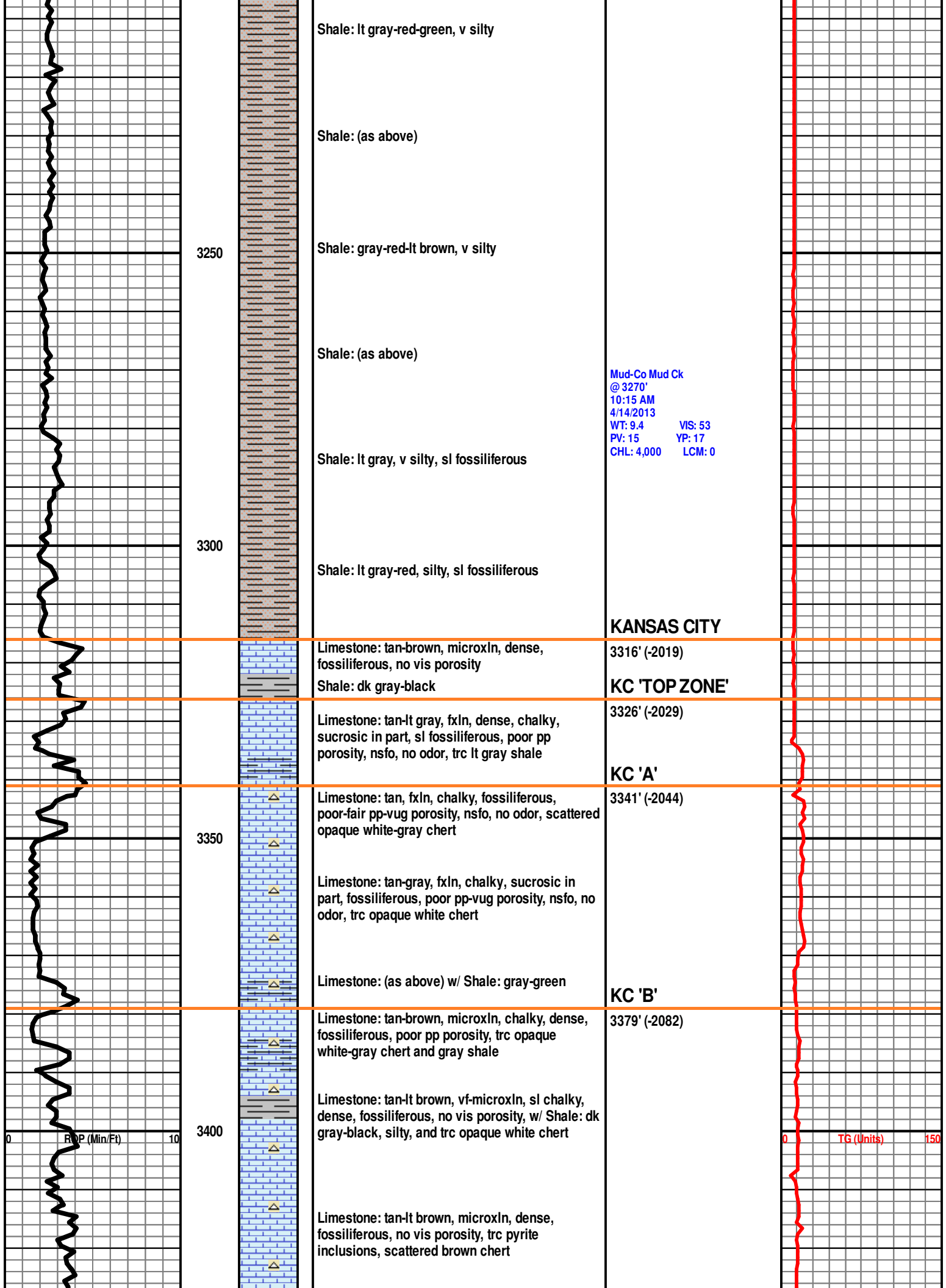
-  Gas show
-  Good
-  Fair
-  Poor
-  Dead

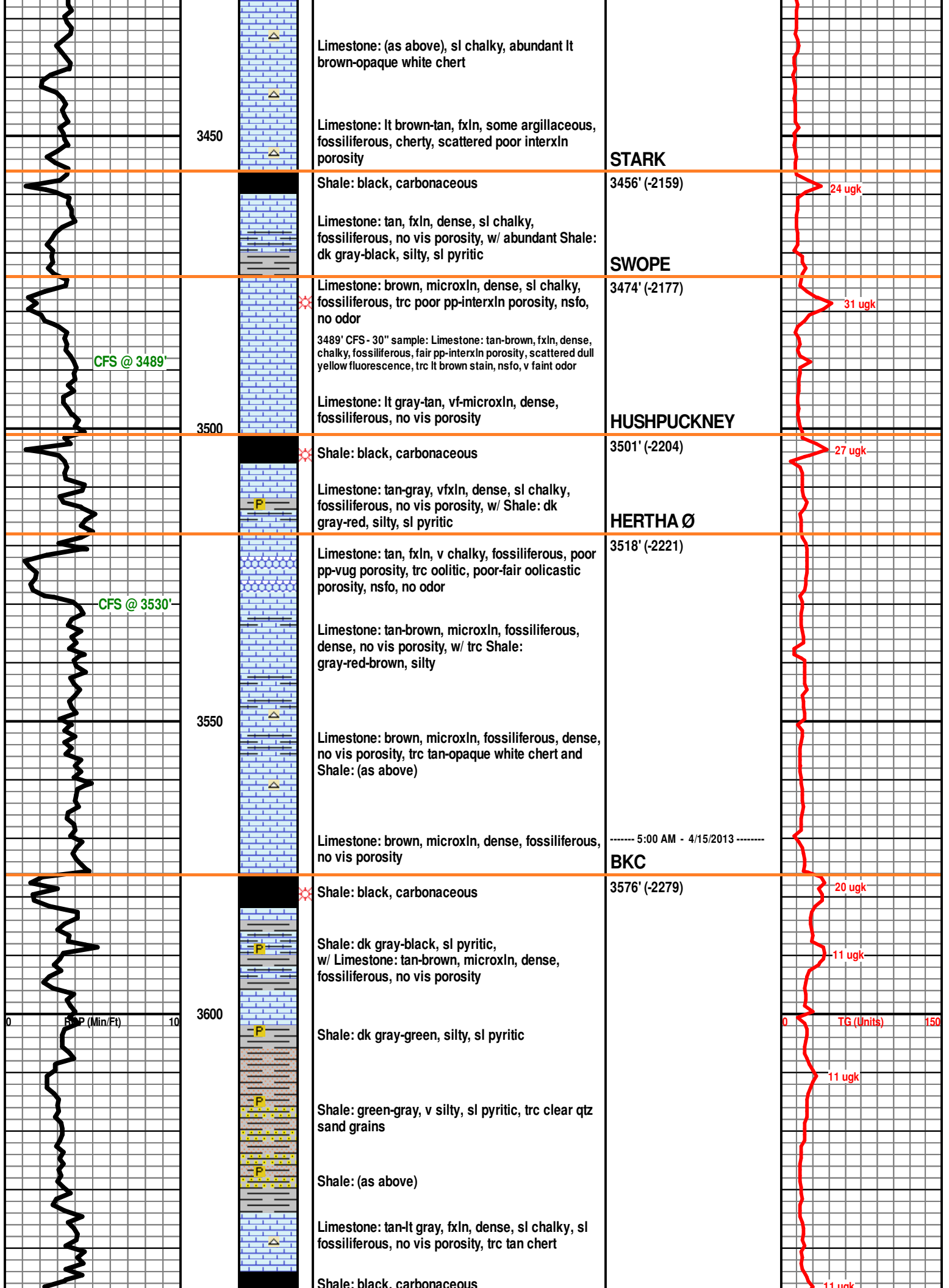
INTERVAL

-  Porosity

STEWART 'A' #2-31 ROP (Min/Ft) 	DEPTH	LITHOLOGY	OIL SHOWS	SAMPLE DESCRIPTIONS	REMARKS	TOTAL GAS TG (Units) 
0 ROP (Min/Ft) 10	2850			<p>McCoy Petroleum Corporation</p> <p>Stewart 'A' #2-31 W/2 NE SW SE 990' FSL & 1750' FEL Sec. 31 - T31S - R3W Sumner County, KS</p> <p>API: 15-191-22680</p> <p>Sterling Drilling: Rig #4</p> <p>Elevations: 1297' KB 1288' GL</p>		0 TG (Units) 150
	2900			Shale: gray-red-green, v silty		
	2950			Shale: (as above)		
	2950			Shale: (as above)		
				Shale: lt gray-red-green, v silty, biotitic		
				Shale: lt gray, silty, sl biotitic		







3650

3700

3750

3800

3850

Limestone: tan-gray, vfxln, chalky, sl fossiliferous, no vis porosity, trc tan chert

Limestone: tan-brown, vfxln, sl chalky, fossiliferous, oolitic in part, no vis porosity, trc tan chert

Limestone: tan, vf-fxln, sl chalky, fossiliferous, oolitic in part, no vis porosity, trc tan-gray chert

* Shale: black, carbonaceous, sgb

Limestone: tan-brown, fxln, dense, sl chalky, cherty, fossiliferous, trc pyrite inclusions, no vis porosity, w/ Shale: dk gray-green-red, silty, biotitic

Limestone: tan-brown, vfxln, dense, cherty, fossiliferous, no vis porosity

Shale: black, carbonaceous

Limestone: tan-brown, fxln, dense, fossiliferous, no vis porosity

Shale: black, carbonaceous, ssgb

Shale: dk gray-black

Limestone: tan-brown, fxln, dense, fossiliferous, no vis porosity

Shale: dk gray-black

Shale: black, carbonaceous

Limestone: gray-tan, fxln, sl chalky, some argillaceous, fossiliferous, no vis porosity, w/ Shale: dk gray-green-red, silty

Shale: (as above)

Shale: black-dk gray, carbonaceous

Limestone: tan-brown, fxln, chalky, dnse, some argillaceous, no vis porosity

Mud-Co Mud Ck @ 3650' 9:45 AM 4/15/2013 WT: 9.3+ VIS: 49 PV: 14 YP: 15 CHL: 2,500 LCM: 2#

CHEROKEE

3775' (-2478)

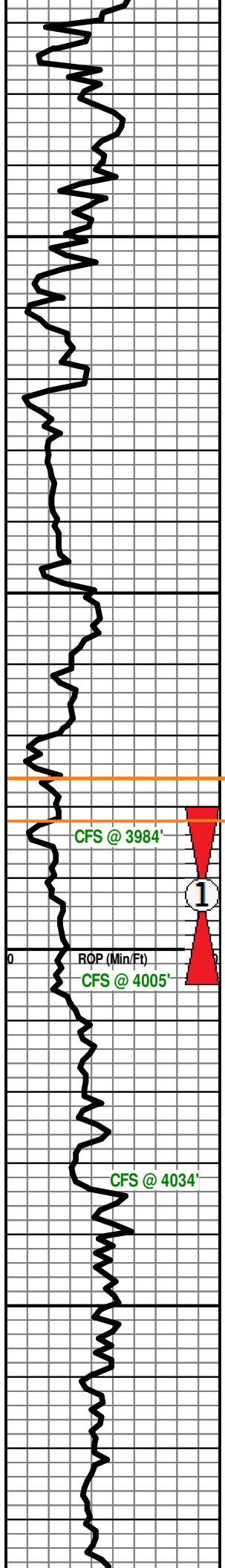
45 ugk

25 ugk

TG (Units)

150

0 RQ (Min/Et) 10



Shale: black-dk gray-green, carbonaceous

Limestone: tan-gray, vfxln, dense, some argillaceous, fossiliferous, no vis porosity

Shale: gray-green, silty

Mix of Limestone and Shale (as above), scattered tan-gray chert

Shale: black, carbonaceous, sgb

Shale: black-dk brown, carbonaceous, sgb

Limestone: gray-tan, f-mxln, dense, cherty, sl chalky, some argillaceous, fossiliferous, bioclastic in part, no vis porosity

Shale: black, carbonaceous, sgb, w/ Limestone: (as above) and Shale: dk gray-dk brown, silty, pyritic

Limestone: tan-gray, f-mxln, mottled, dense, v cherty, fossiliferous, no vis porosity, few pieces w/ spotty dull fluorescence, nsfo, v faint odor

Shale: black-dk gray, carbonaceous, sgb, w/ trc Chert: tan, sharp, fresh

Chert: white, weathered, scattered pp porosity, trc lt sat stain, spotty dull fluorescence, nsfo, faint odor

3984' CFS - 60" sample: Chert: (as above) w/ Dolomite: off white-tan, f-mxln, chalky, fair-good interxln porosity, scattered lt sat stain, spotty dull fluorescence, nsfo, v faint odor

Dolomite: off white-tan, m-crs xln, chalky, cherty, good pp-interxln porosity, scattered lt sat stain, spotty dull fluorescence, fair odor on break, nsfo

Dolomite: off white, mxln, sl chalky, cherty, fair-good interxln porosity, scattered lt brown sat stain, spotty dull fluorescence throughout, few pieces w/ good yellow fluorescence, faint odor, nsfo

4005' CFS - 60" sample: Dolomite: off white-tan, f-mxln, poor interxln porosity, spotty dull fluorescence, nsfo, v faint odor

Dolomite: tan-lt brown, f-mxln, dense, cherty, poor interxln porosity, few pieces w/ spotty dull fluorescence, nsfo, no odor, w/ trc Limestone: white-tan, vfxln, sucrosic, dolomitic, no vis porosity

4034' CFS - 60" sample: Dolomite: tan-brown, f-mxln, dense, fossiliferous, no vis porosity, w/ trc Chert: white, sl tripolitic, nsfo, no odor, and Shale: gray-green, silty

Dolomite: brown, f-mxln, dense, cherty, sucrosic in part, sl argillaceous, fossiliferous, no vis porosity

Dolomite: (as above), scattered Limestone: dk brown-tan, f-xmln, dolomitic, trc pyrite and glauconite, no vis porosity

Limestone: dk brown-tan, fxln, cherty, some glauconitic, few pieces w/ poor interxln porosity, nsfo, no odor
w/ trc Dolomite: gray-brown, fxln, mottled, fossiliferous, dense, cherty, no vis porosity

----- 5:00 AM - 4/16/2013 -----

NOTE: ROP CURVE
Scale Change @ 3900'

Mud-Co Mud Ck
@ 3919'
8:15 AM
4/16/2013
WT: 9.3+ VIS: 52
PV: 15 YP: 16
CHL: 3,500 LCM: 4#

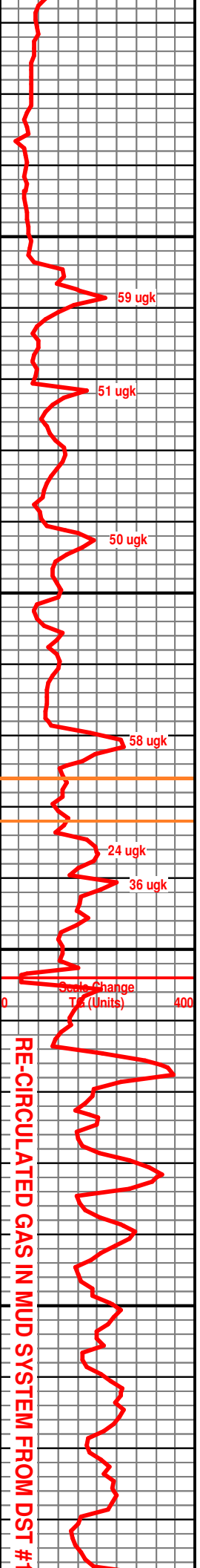
MISSISSIPPIAN
3976' (-2679)
WARSAW
3982' (-2685)

NOTE: GAS CURVE
Scale Change @ 4004'

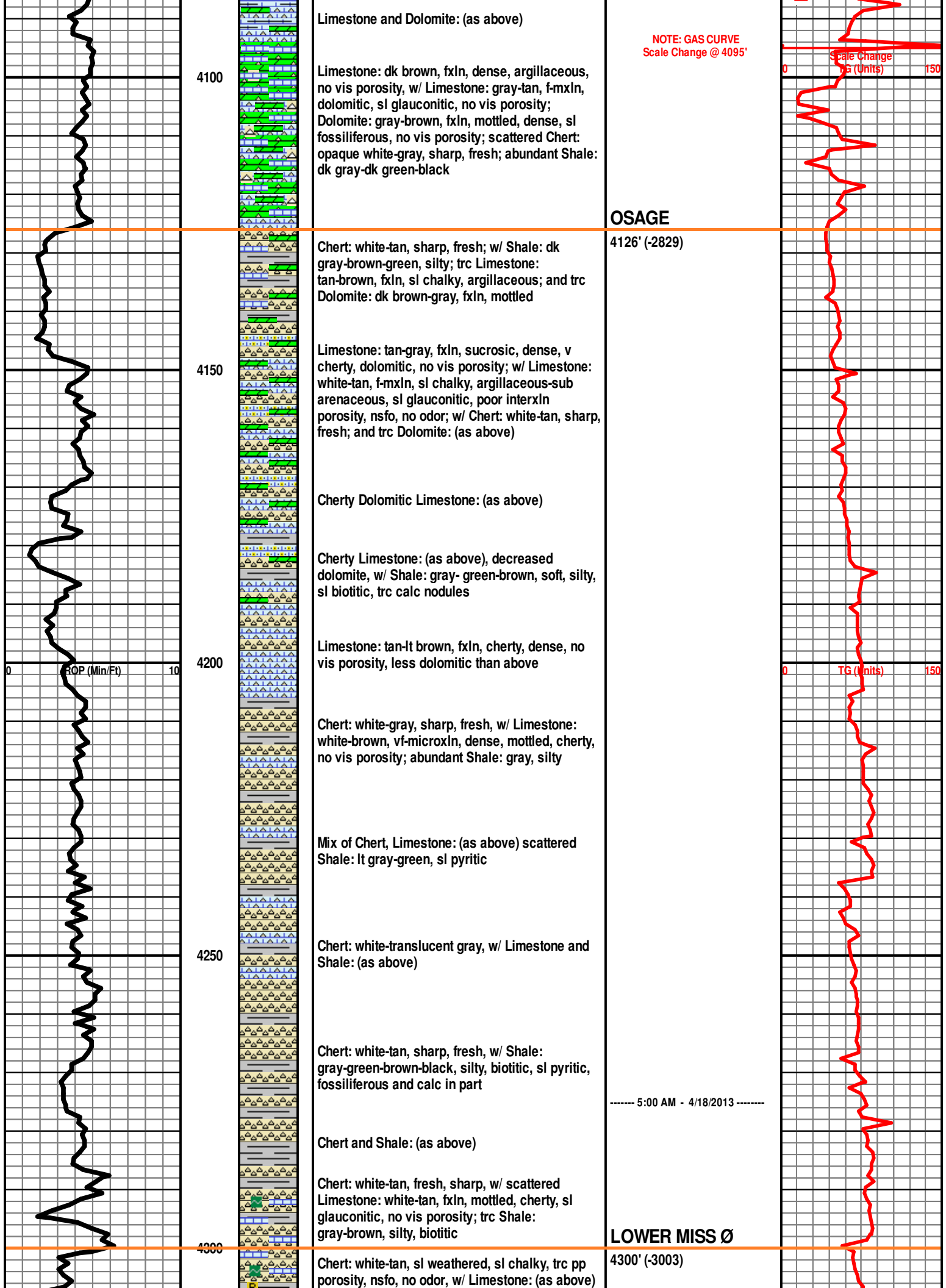
----- 5:00 AM - 4/17/2013 -----

DST #1
3980' - 4005'
30-60-90-120
IF: 27-28#
FF: 45-72#
SIP: 1183-1209#
Hydro: 2021-1963#
BHT: 125°
Recovery:
3790' GIP
2' Clean Oil
178' GSY OWCM
(66%G, 5%O, 5%W, 24%M)

Mud-Co Mud Ck
@ 4022'
9:30 AM
4/17/2013
WT: 9.1 VIS: 60
PV: 15 YP: 18
CHL: 4,000 LCM: 4#



RE-CIRCULATED GAS IN MUD SYSTEM FROM DST #1



Limestone and Dolomite: (as above)

NOTE: GAS CURVE
Scale Change @ 4095'

4100

Limestone: dk brown, fxln, dense, argillaceous, no vis porosity, w/ Limestone: gray-tan, f-mxln, dolomitic, sl glauconitic, no vis porosity; Dolomite: gray-brown, fxln, mottled, dense, sl fossiliferous, no vis porosity; scattered Chert: opaque white-gray, sharp, fresh; abundant Shale: dk gray-dk green-black

Scale Change
TG (Units) 150

OSAGE

4126' (-2829)

4150

Chert: white-tan, sharp, fresh; w/ Shale: dk gray-brown-green, silty; trc Limestone: tan-brown, fxln, sl chalky, argillaceous; and trc Dolomite: dk brown-gray, fxln, mottled

Limestone: tan-gray, fxln, sucrosic, dense, v cherty, dolomitic, no vis porosity; w/ Limestone: white-tan, f-mxln, sl chalky, argillaceous-sub arenaceous, sl glauconitic, poor interxln porosity, nsfo, no odor; w/ Chert: white-tan, sharp, fresh; and trc Dolomite: (as above)

Cherty Dolomitic Limestone: (as above)

Cherty Limestone: (as above), decreased dolomite, w/ Shale: gray- green-brown, soft, silty, sl biotitic, trc calc nodules

4200

Limestone: tan-lt brown, fxln, cherty, dense, no vis porosity, less dolomitic than above

TG (Units) 150

Chert: white-gray, sharp, fresh, w/ Limestone: white-brown, vf-microxln, dense, mottled, cherty, no vis porosity; abundant Shale: gray, silty

Mix of Chert, Limestone: (as above) scattered Shale: lt gray-green, sl pyritic

4250

Chert: white-translucent gray, w/ Limestone and Shale: (as above)

Chert: white-tan, sharp, fresh, w/ Shale: gray-green-brown-black, silty, biotitic, sl pyritic, fossiliferous and calc in part

----- 5:00 AM - 4/18/2013 -----

Chert and Shale: (as above)

4300

Chert: white-tan, fresh, sharp, w/ scattered Limestone: white-tan, fxln, mottled, cherty, sl glauconitic, no vis porosity; trc Shale: gray-brown, silty, biotitic

LOWER MISS Ø

4300' (-3003)

Chert: white-tan, sl weathered, sl chalky, trc pp porosity, nsfo, no odor, w/ Limestone: (as above)

