



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1166826
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: _____



1166826

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> _____ <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

November 04, 2013

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

Re: ACO1
API 15-081-22027-00-00
FITZGERALD 'A' 5-30
NE/4 Sec.30-30S-31W
Haskell 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

SAMPLE TOPS
McCoy Petroleum
Fitzgerald 'A' #5-30
N2 N2 NE
330'FNL & 1320'FEL
Sec 30-30s-31w
KB: 2857'

	Depth	Datum
Heebner	4165	-1308
Lansing	4224	-1367
Lansing 'G'	4514	-1657
Stark	4675	-1818
Swope	4681	-1824
Hushpuckney	4749	-1892
Hertha	4763	-1906
Marmaton	4850	-1993
Marmaton 'B'	4879	-2022
Pawnee	4954	-2097
Cherokee	5002	-2145
Atoka	5230	-2373
Morrow Sh	5277	-2420
Chester	5366	-2509
St. Genevieve	5472	-2615
St. Louis 'A'	5570	-2713
St. Louis 'B'	5602	-2745
RTD	5700	

LOG TOPS :
McCoy Petroleum
Fitzgerald 'A' #5-30
N2 N2 NE
330'FNL & 1320'FEL
Sec 30-30s-31w
KB: 2857'

	Depth	Datum
Heebner	4160	-1303
Lansing	4231	-1374
Lansing 'G'	4514	-1657
Stark	4671	-1814
Swope	4679	-1822
Hushpuckney	4746	-1889
Hertha	4757	-1900
Marmaton	4846	-1989
Marmaton 'B'	4876	-2019
Pawnee	4949	-2092
Cherokee	5000	-2143
Atoka	5227	-2370
Morrow Sh	5274	-2417
Chester	5348	-2591
St. Genevieve	5471	-2614
St. Louis 'A'	5566	-2709
St. Louis 'B'	5598	-2741
LTD	5701	



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2386

ATTN: Dave Williams

Fitzgerald A #5-30

30-30s-31w Haskell,KS

Start Date: 2013.08.26 @ 21:04:32

End Date: 2013.08.27 @ 07:13:47

Job Ticket #: 52350 DST #: 1

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

Printed: 2013.09.03 @ 16:12:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

ATTN: Dave Williams

Job Ticket: 52350

DST#: 1

Test Start: 2013.08.26 @ 21:04:32

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:03:17

Time Test Ended: 07:13:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 48

Interval: 4666.00 ft (KB) To 4688.00 ft (KB) (TVD)

Reference Elevations: 2857.00 ft (KB)

Total Depth: 4688.00 ft (KB) (TVD)

2846.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8790

Inside

Press @ Run Depth: 129.72 psig @ 4667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.26

End Date:

2013.08.27

Last Calib.:

2013.08.27

Start Time: 21:04:37

End Time:

07:13:47

Time On Btm:

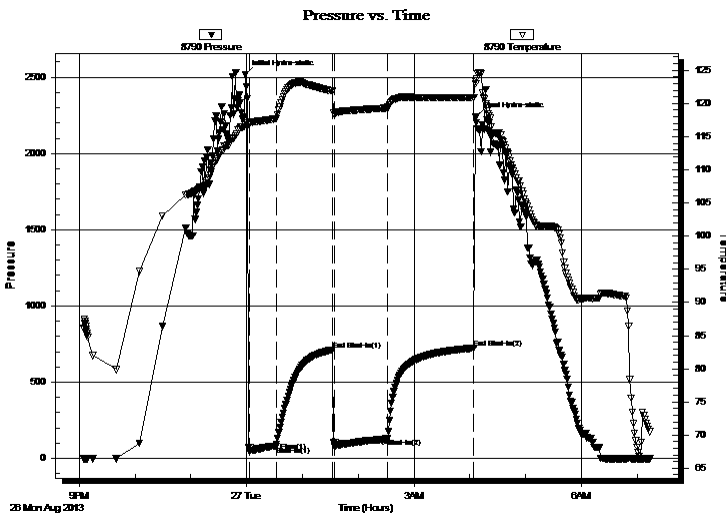
2013.08.26 @ 23:58:17

Time Off Btm:

2013.08.27 @ 04:06:32

TEST COMMENT: IF: Strong blow . BOB @ 1 min. No GTS.
IS: Weak blow . surf. - 2"
FF: Strong blow . BOB immed. GTS @ 10min.
FS: Good blow . surf. - 7"

PRESSURE SUMMARY



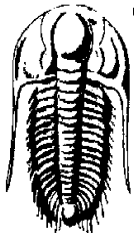
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2518.19	116.75	Initial Hydro-static
5	48.32	116.95	Open To Flow (1)
34	81.54	117.71	Shut-In(1)
94	712.36	121.84	End Shut-In(1)
97	80.61	118.29	Open To Flow (2)
153	129.72	119.33	Shut-In(2)
246	723.47	120.86	End Shut-In(2)
249	2241.66	122.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MWOG 7% mud, 27% w tr, 30% oil, 36% gas	0.32
185.00	WMGO 9% w tr, 9% mud, 25% gas, 57% oil	1.49
80.00	WGMO 2% w tr, 20% gas, 30% mud, 48% oil	1.12

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	7.26
Last Gas Rate	0.13	14.00	10.63
Max. Gas Rate	0.13	14.00	10.63



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2386
 ATTN: Dave Williams

30-30s-31w Haskell,KS
Fitzgerald A #5-30
 Job Ticket: 52350 **DST#: 1**
 Test Start: 2013.08.26 @ 21:04:32

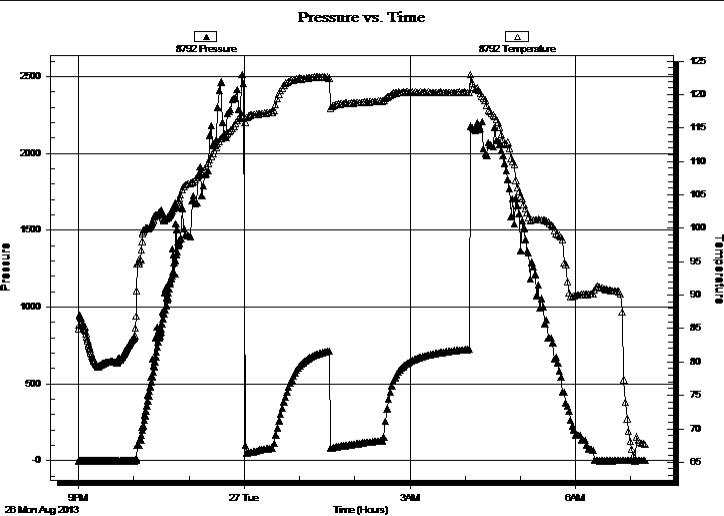
GENERAL INFORMATION:

Formation: Swope	
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 00:03:17	Tester: Ryan Reynolds
Time Test Ended: 07:13:47	Unit No: 48
Interval: 4666.00 ft (KB) To 4688.00 ft (KB) (TVD)	Reference Elevations: 2857.00 ft (KB)
Total Depth: 4688.00 ft (KB) (TVD)	2846.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Fair	KB to GR/CF: 11.00 ft

Serial #: 8792 Outside

Press @RunDepth: psig @ 4667.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.08.26 End Date: 2013.08.27	Last Calib.: 2013.08.27
Start Time: 20:59:58 End Time: 07:15:08	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Strong blow . BOB @ 1 min. No GTS.
 IS: Weak blow . surf. - 2"
 FF: Strong blow . BOB immed. GTS @ 10min.
 FS: Good blow . surf. - 7"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MVOG 7% mud, 27% w tr, 30% oil, 36% ga	0.32
185.00	WMGO 9% w tr, 9% mud, 25% gas, 57% oil	1.49
80.00	WGMO 2% w tr, 20% gas, 30% mud, 48% c	1.12

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	7.26
Last Gas Rate	0.13	14.00	10.63
Max. Gas Rate	0.13	14.00	10.63



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52350

DST#: 1

ATTN: Dave Williams

Test Start: 2013.08.26 @ 21:04:32

Tool Information

Drill Pipe:	Length: 4461.00 ft	Diameter: 3.80 inches	Volume: 62.58 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 63.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4666.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4645.00	
Hydraulic tool	5.00			4650.00	
Jars	5.00			4655.00	
Safety Joint	2.00			4657.00	
Packer	5.00			4662.00	26.00 Bottom Of Top Packer
Packer	4.00			4666.00	
Stubb	1.00			4667.00	
Recorder	0.00	8790	Inside	4667.00	
Recorder	0.00	8792	Outside	4667.00	
Perforations	18.00			4685.00	
Bullnose	3.00			4688.00	22.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.

30-30s-31w Haskell,KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52350

DST#: 1

ATTN: Dave Williams

Test Start: 2013.08.26 @ 21:04:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

71000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MVOG 7%mud, 27%w tr, 30%oil, 36%gas	0.320
185.00	WMGO 9%w tr, 9%mud, 25%gas, 57%oil	1.493
80.00	WGMO 2%w tr, 20%gas, 30%mud, 48%oil	1.122

Total Length: 330.00 ft

Total Volume: 2.935 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52350

DST#: 1

ATTN: Dave Williams

Test Start: 2013.08.26 @ 21:04:32

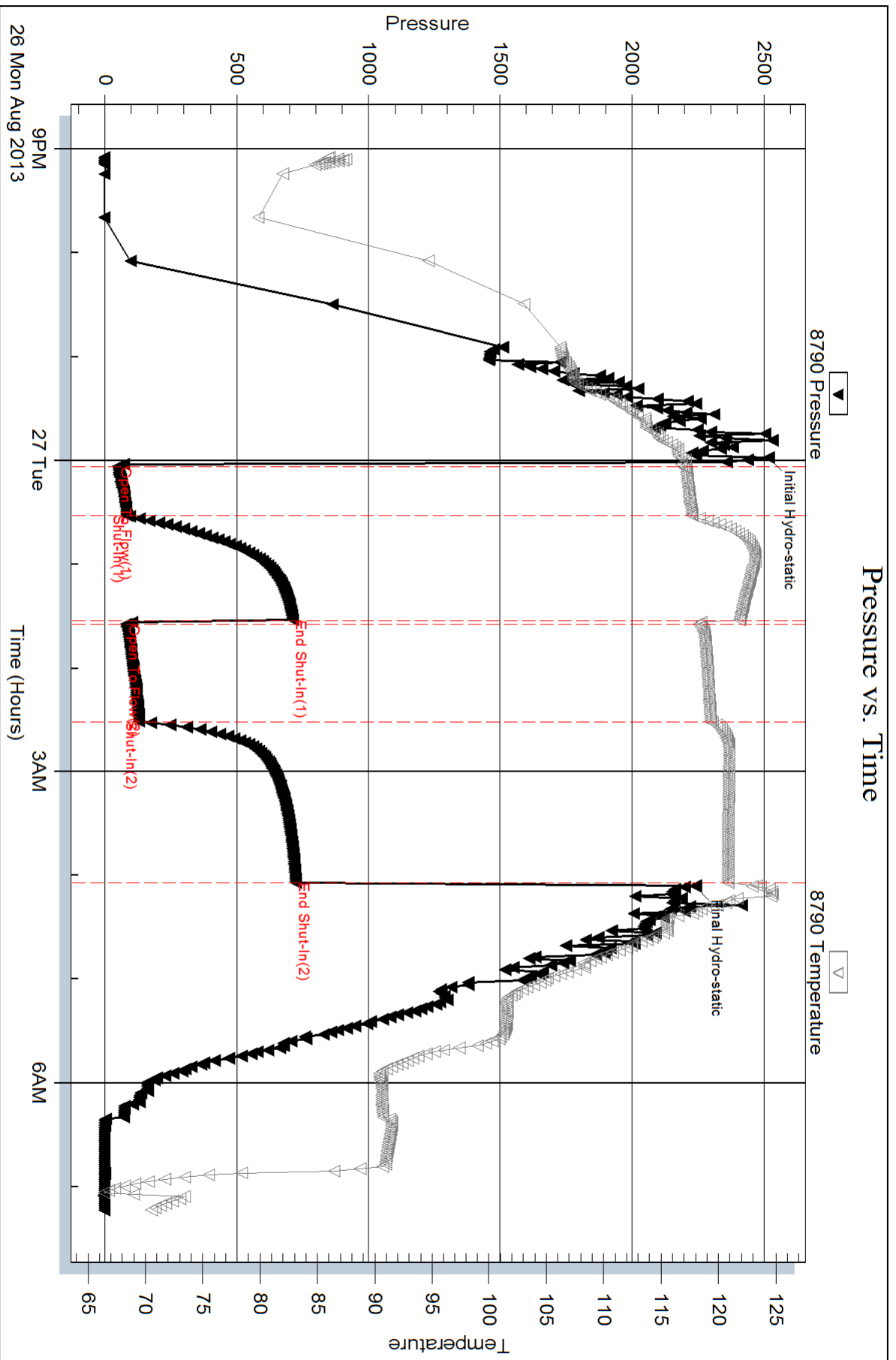
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	5.00	7.26
2	20	0.13	7.00	8.01
2	30	0.13	8.00	8.38
2	40	0.13	10.00	9.13
2	50	0.13	13.00	10.26
2	60	0.13	14.00	10.63

Pressure vs. Time

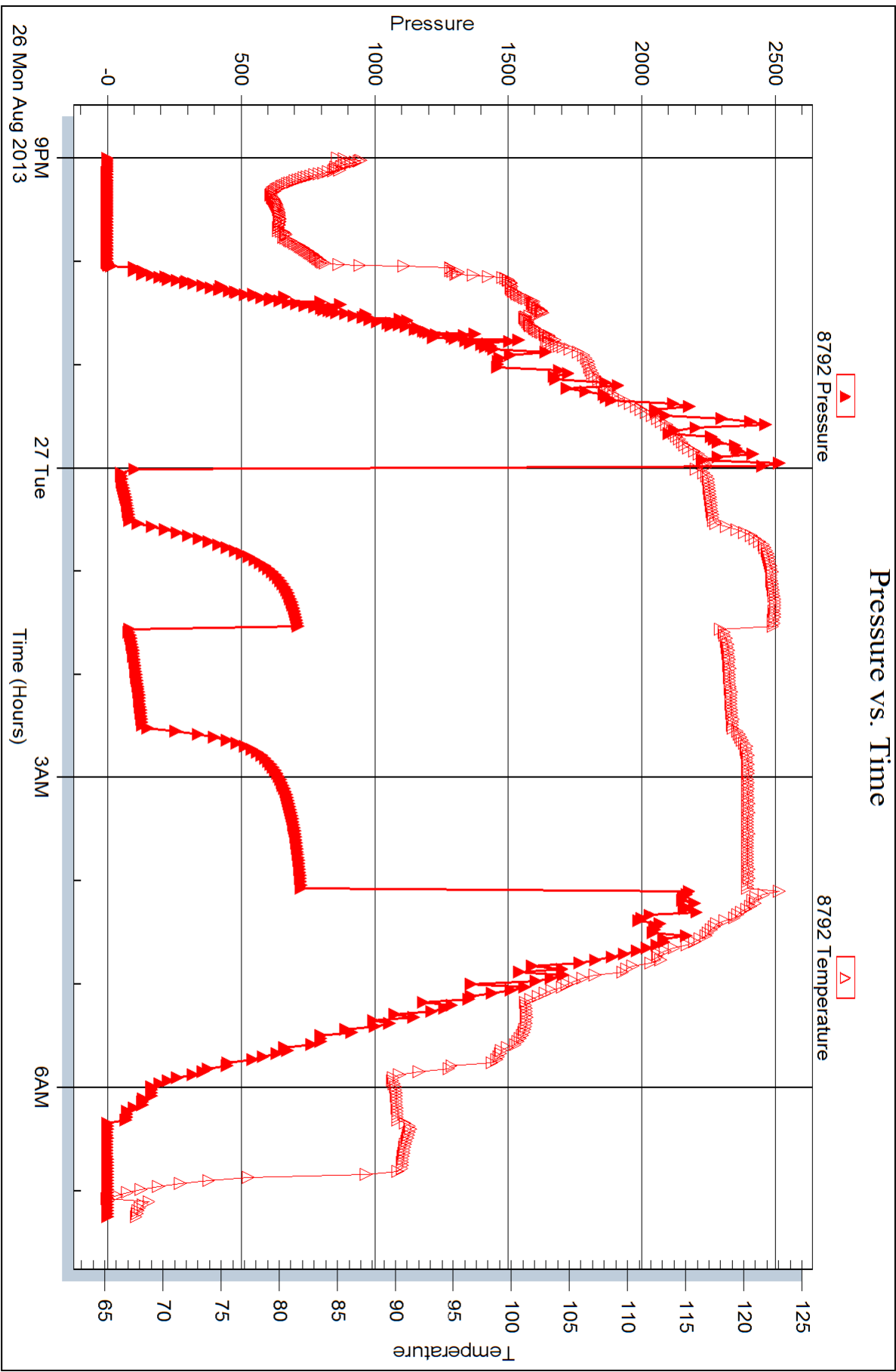


Serial #: 8792

Outside McCoy Petroleum Corp.

Fitzgerald A #5-30

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2386

ATTN: Dave Williams

Fitzgerald A #5-30

30-30s-31w Haskell,KS

Start Date: 2013.08.29 @ 16:24:35

End Date: 2013.08.30 @ 01:55:35

Job Ticket #: 52451 DST #: 2

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

Printed: 2013.09.03 @ 15:59:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2386
 ATTN: Dave Williams

30-30s-31w Haskell, KS
Fitzgerald A #5-30
 Job Ticket: 52451 **DST#: 2**
 Test Start: 2013.08.29 @ 16:24:35

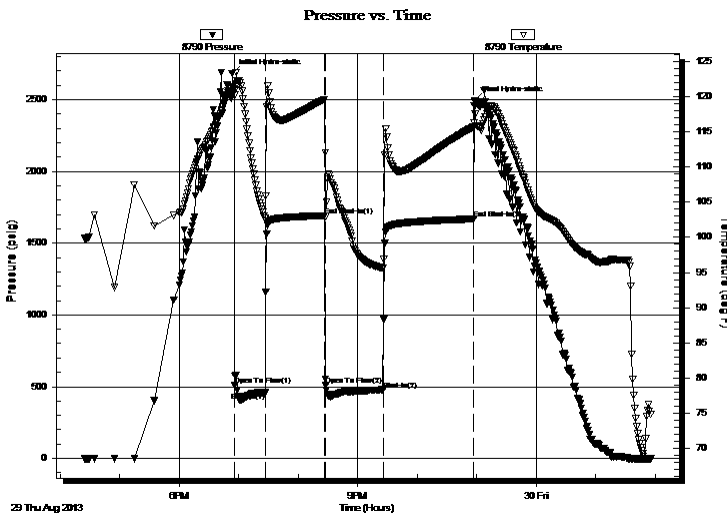
GENERAL INFORMATION:

Formation: **Morrow SS**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:56:05 Tester: Ryan Reynolds
 Time Test Ended: 01:55:35 Unit No: 48
 Interval: **5268.00 ft (KB) To 5328.00 ft (KB) (TVD)** Reference Elevations: 2857.00 ft (KB)
 Total Depth: 5328.00 ft (KB) (TVD) 2846.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8790 Inside
 Press @ Run Depth: 478.23 psig @ 5269.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.29 End Date: 2013.08.30 Last Calib.: 2013.08.30
 Start Time: 16:24:40 End Time: 01:55:35 Time On Btm: 2013.08.29 @ 18:53:20
 Time Off Btm: 2013.08.29 @ 22:58:05

TEST COMMENT: IF: Strong blow . BOB 15 sec. GTS @ 3 min. Merla gauged
 IS: No blow
 FF: Strong blow . BOB immed. Merla gauged
 FS: Weak blow . surf. - 2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2679.79	120.73	Initial Hydro-static
3	509.68	120.20	Open To Flow (1)
34	458.36	102.67	Shut-In(1)
93	1692.68	119.60	End Shut-In(1)
95	512.33	102.98	Open To Flow (2)
153	478.23	95.65	Shut-In(2)
244	1668.92	115.75	End Shut-In(2)
245	2490.31	118.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	GCM 5%gas, 95%mud	0.84

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.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52451

DST#: 2

ATTN: Dave Williams

Test Start: 2013.08.29 @ 16:24:35

Tool Information

Drill Pipe:	Length: 5034.00 ft	Diameter: 3.80 inches	Volume: 70.61 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 71.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5268.00 ft			Final 87000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			5247.00	
Hydraulic tool	5.00			5252.00	
Jars	5.00			5257.00	
Safety Joint	2.00			5259.00	
Packer	5.00			5264.00	26.00 Bottom Of Top Packer
Packer	4.00			5268.00	
Stubb	1.00			5269.00	
Recorder	0.00	8790	Inside	5269.00	
Recorder	0.00	8792	Outside	5269.00	
Perforations	4.00			5273.00	
Change Over Sub	1.00			5274.00	
Drill Pipe	32.00			5306.00	
Change Over Sub	1.00			5307.00	
Perforations	18.00			5325.00	
Bullnose	3.00			5328.00	60.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.
8080 E. Central Ste. 300
Wichita, KS 67206-2386
ATTN: Dave Williams

30-30s-31w Haskell, KS
Fitzgerald A #5-30
Job Ticket: 52451 **DST#: 2**
Test Start: 2013.08.29 @ 16:24:35

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:	3800 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	GCM 5%gas, 95%mud	0.836

Total Length: 170.00 ft Total Volume: 0.836 bbl
 Num Fluid Samples: 1 Num Gas Bombs: 2 Serial #: RR-2
 Laboratory Name: Caraway Laboratory Location: Liberal, KS
 Recovery Comments:

Serial #: 8790

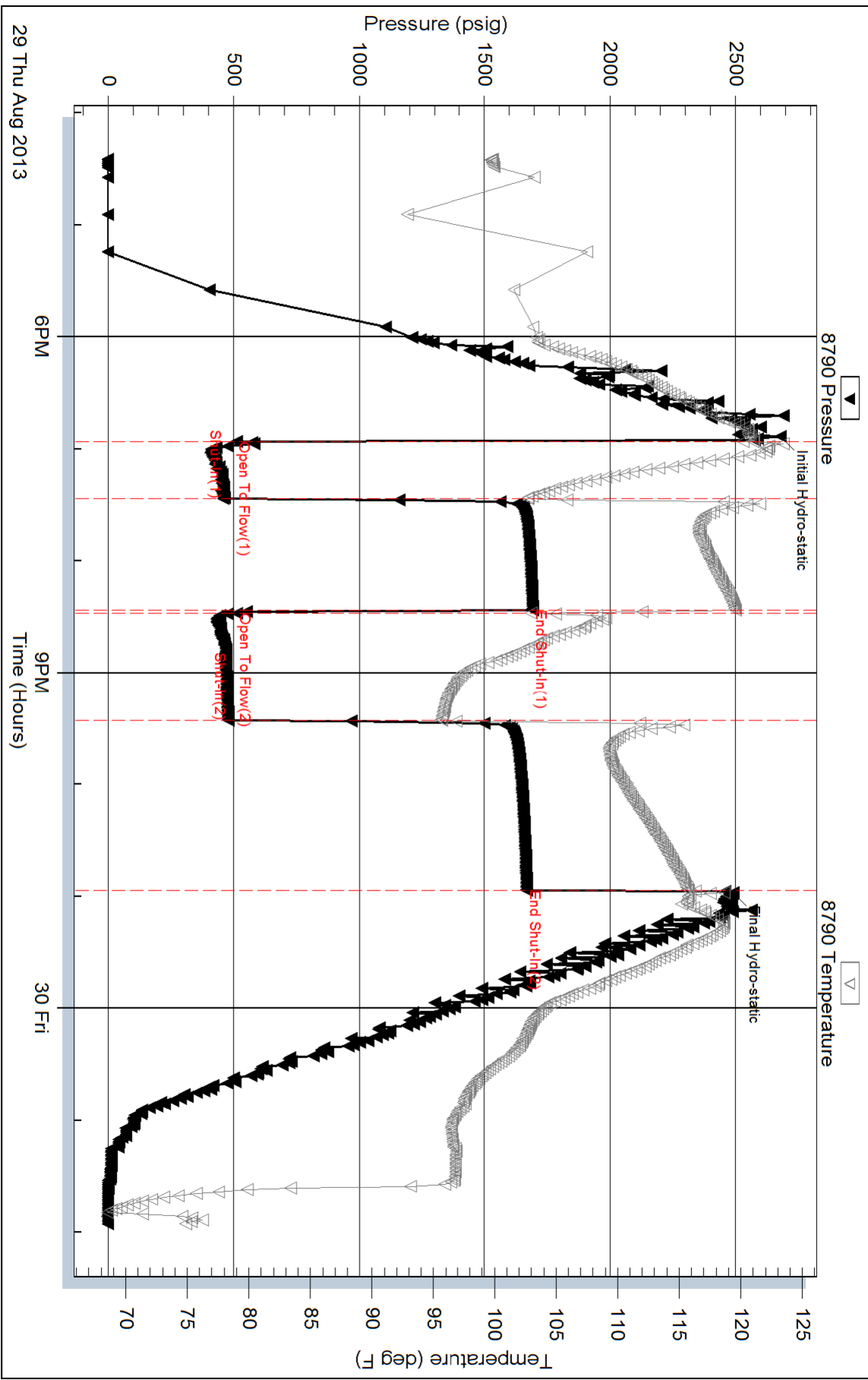
Inside

McCoy Petroleum Corp.

Fitzgerald A #5-30

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52451

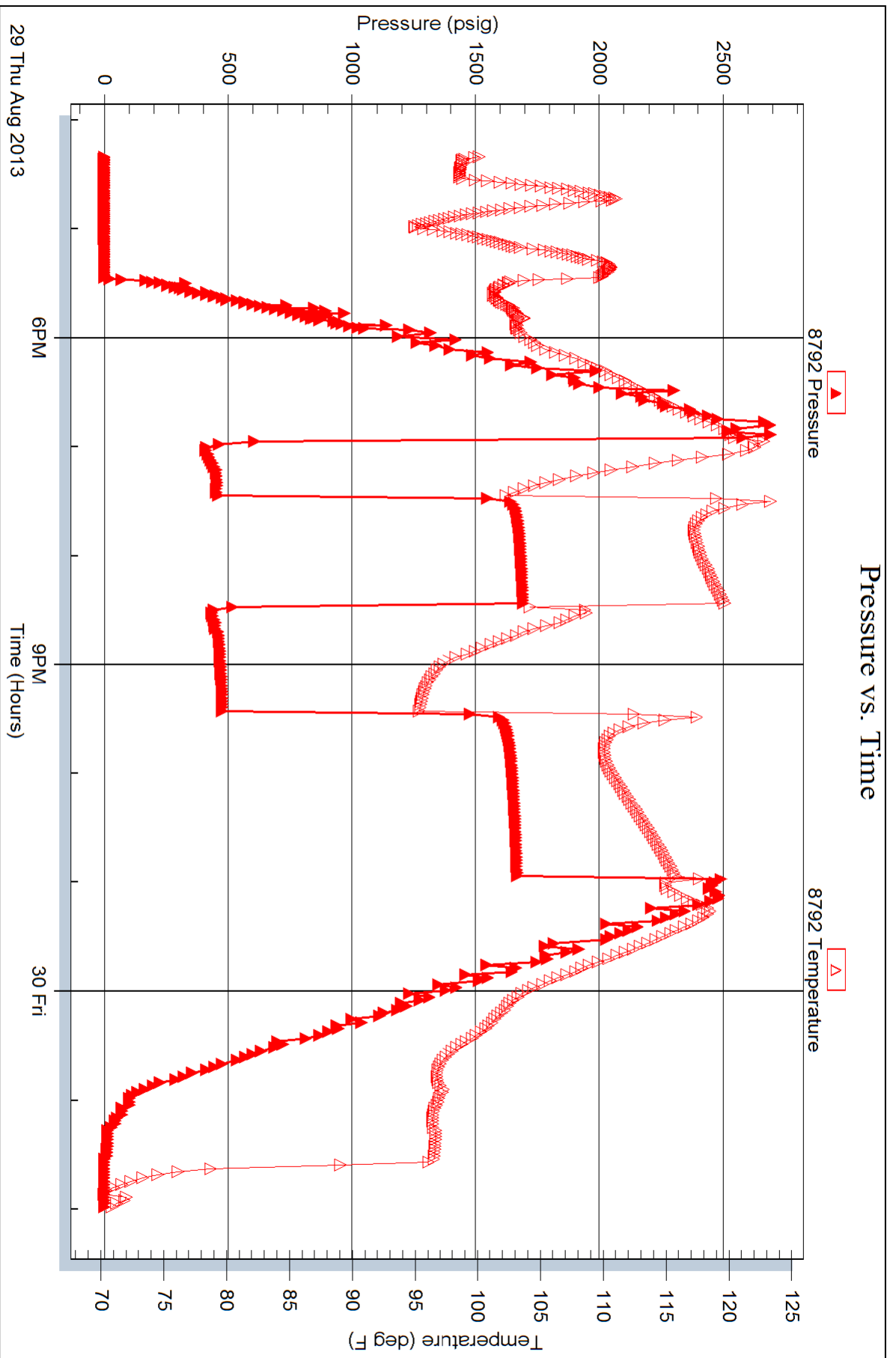
Printed: 2013.09.03 @ 15:59:24

Serial #: 8792

Outside McCoy Petroleum Corp.

Fitzgerald A #5-30

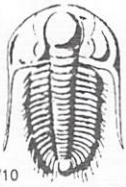
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 52451

Printed: 2013.09.03 @ 15:59:24



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52350

4/10

Well Name & No. Fitzgerald "A" 5-30 Test No. 1 Date 8-26-13
 Company McLoy Petro. Corp. Elevation 2857 KB 2846 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2386
 Co. Rep / Geo. Dave Williams Rig Sterling #2
 Location: Sec. 30 Twp. 30s Rge. 31w. Co. Haskell State KS

Interval Tested 4666 - 4688 Zone Tested Swope
 Anchor Length 22 Drill Pipe Run 4461 Mud Wt. 9.1
 Top Packer Depth 4661 Drill Collars Run 186 Vis 57
 Bottom Packer Depth 4666 Wt. Pipe Run Ø WL 8.0
 Total Depth 4688 Chlorides 3000 ppm System LCM 3#

Blow Description IF: Strong blow. BOBE 1 min. No GTS
ISI: Weak blow. surf. - 2"
FF: Strong blow. BOBE @ immed. GTS @ 10 min. Guaged throughout
FSL: Good blow. surf. - 7"

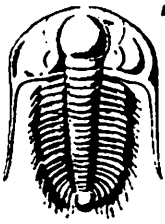
Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	Feet of <u>WGMO</u>	<u>20</u>	<u>48</u>	<u>2</u>	<u>30</u>
<u>185</u>	Feet of <u>WMGO</u>	<u>25</u>	<u>57</u>	<u>9</u>	<u>9</u>
<u>65</u>	Feet of <u>MWOG</u>	<u>36</u>	<u>30</u>	<u>27</u>	<u>7</u>
Rec	Feet of <u>(intervals of free oil in stds)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 330 BHT 123 Gravity 41 API RW .095 @ 80 °F Chlorides 71000 ppm
 (A) Initial Hydrostatic 2518 Test 1250 T-On Location 1830
 (B) First Initial Flow 48 Jars 250 T-Started 2105
 (C) First Final Flow 82 Safety Joint 75 T-Open 0003
 (D) Initial Shut-In 712 Circ Sub _____ T-Pulled 0408
 (E) Second Initial Flow 81 Hourly Standby 2 3/4 T-Out 0714
 (F) Second Final Flow 130 Mileage 272 168rt 260.40
 (G) Final Shut-In 723 Sampler _____
 (H) Final Hydrostatic 2242 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1835.40
 Total 1835.40
 MP/DST Disc't _____

Approved By Dave Williams Our Representative Ryan Reynolds

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



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

GAS VOLUME REPORT

McCoy Petro. Corp.
OPERATOR

Fitzgerald "A" 5-30
WELL NAME AND NO.

1
DST NO.

Final Flow Period GTS @ 10 min.

Min.	In. of Water PSIG	Orifice Size	Field MCF/D	1 ARMS Z ₀₀₀	Min.	In. of Water PSIG	Orifice Size	CF/D
10	5#	1/8	6.8	7.261				
20	7#	1/8	7.5	8.010				
30	8#	1/8	7.8	8.384				
40	10#	1/8	8.5	9.133				
50	13#	1/8	9.6	10.255				
60	14#	1/8	9.9	10.630				

Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

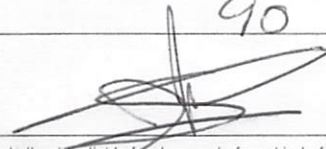
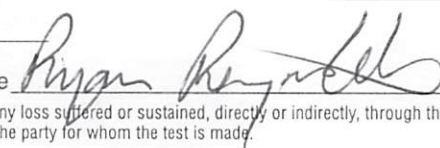
NO. 52451

Well Name & No. Fitzgerald "A" 5-30 Test No. 2 Date 8-29-13
 Company McLoy Petro. Corp. Elevation 2857 KB 2846 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2386
 Co. Rep / Geo. Dave Williams / Evan Stone Rig Sterling #2
 Location: Sec. 30 Twp. 30s. Rge. 31w. Co. Haskell State KS

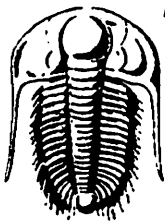
Interval Tested 5268 - 5328 Zone Tested Morrow SS
 Anchor Length 60 Drill Pipe Run 5034 Mud Wt. 8.9+
 Top Packer Depth 5263 Drill Collars Run 217 Vis 54
 Bottom Packer Depth 5268 Wt. Pipe Run Ø WL 9.2
 Total Depth 5328 Chlorides 3800 ppm System LCM 3#
 Blow Description IF: Strong blow. BOB 15 sec. GTSE 3 min. IST: No blow
FF: Strong blow. BOB immed. Gauged gas throughout
FST: Weak blow. surf. - 2"

Rec	Feet of	%gas	%oil	%water	%mud
170	GLM	5		95	

Rec Total 170 BHT 119 Gravity N/C API RW N/C @ N/C °F Chlorides 3800 ppm
 (A) Initial Hydrostatic 2680 Test 1350 T-On Location 1430
 (B) First Initial Flow 510 Jars 250 T-Started 1625
 (C) First Final Flow 458 Safety Joint 75 T-Open 1856
 (D) Initial Shut-In 1693 Circ Sub _____ T-Pulled 2256
 (E) Second Initial Flow 512 Hourly Standby _____ T-Out 0156
 (F) Second Final Flow 478 Mileage 272 260.40 Comments _____
 (G) Final Shut-In 1669 Sampler _____
 (H) Final Hydrostatic 2490 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 2 days 8/27-8/29 Sub Total 1041.67
 1d 31.25h Total 2977.07
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1935.40

Approved By  Our Representative 

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



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

GAS VOLUME REPORT

M^o Loy Petro Corp
OPERATOR

Fitzgerald "A" 5-30
WELL NAME AND NO.

2
DST NO.

IF = GTS @ 3 min.

Final Flow Period

Min.	Wet PSIG	Orifice Size	CF/D	Min.	Wet PSIG	Orifice Size	CF/D
10	54 [#]	1"	1466000	10	74 [#]	1"	1900000
20	65 [#]	1"	1705000	20	83 [#]	1"	2095000
30	66 [#]	1"	1726000	30	84 [#]	1"	2117000
				40	84 [#]	1"	2117000
				50	85 [#]	1"	2139000
				60	85 [#]	1"	2139000

Remarks:

NATURAL GAS ANALYSIS REPORT
GPA 2145-09

Sampled by:
Trilobite Testing, Inc.
Inc
Hays, Kansas
Scott City, Kansas
67905
Phone: 800-728-5369
2371
Fax: 785-625-5620
7108

Analyzed by:
Caraway Analytical,
P. O. Box 2137
Liberal, Kansas
Phone: 620-482-
Fax: 620-626-

Lab Number: 20131933 Analyzed:
09/06/13
Sample From: FITZGERALD A 5-30 Pressure:
Producer: MCCOY PETROLEUM CORP Temperature:
Date: Location: 30-
30-30
Time: County:
HASKELL
Sampler: RYAN R State:
KANSAS
Source: DST 1 Formation:
SWOPE

	Mole %	GPM
Helium	He: 0.113	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.204	0.000
Carbon Dioxide	CO2: 0.049	0.000
Methane	C1: 79.313	0.000
Ethane	C2: 8.924	3.347
Propane	C3: 4.959	1.859
Iso Butane	iC4: 0.683	0.209
Normal Butane	nC4: 1.872	0.595
Iso Pentane	iC5: 0.437	0.120
Normal Pentane	nC5: 0.610	0.169
Hexanes Plus	C6+: 0.836	0.192

TOTAL: 100.000 6.491
Z Fact: 0.9998
SP.GR.: 0.7344
BTU (SAT): 1255.0 @ 14.73 psia
BTU (DRY): 1277.2 @ 14.73 psia

OCTANE RATING: 120.3

COMMENTS:

0.000

NATURAL GAS ANALYSIS REPORT
GPA 2145-09

Sampled by:
Trilobite Testing, Inc.
Inc
Hays, Kansas
Scott City, Kansas
67905
Phone: 800-728-5369
2371
Fax: 785-625-5620
7108

Analyzed by:
Caraway Analytical,
P. O. Box 2137
Liberal, Kansas
Phone: 620-482-
Fax: 620-626-

Lab Number: 20131934 Analyzed:
09/06/13
Sample From: FITZGERALD A 5-30 Pressure:
Producer: MCCOY PETROLEUM CORP Temperature:
Date: Location: 30-
30-30
Time: County:
HASKELL
Sampler: RYAN R State:
KANSAS
Source: DST 2 Formation:
MORROW SS

	Mole %	GPM
Helium	He: 0.293	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 10.510	0.000
Carbon Dioxide	CO2: 0.149	0.000
Methane	C1: 78.458	0.000
Ethane	C2: 5.990	2.246
Propane	C3: 3.046	1.142
Iso Butane	iC4: 0.393	0.120
Normal Butane	nC4: 0.671	0.213
Iso Pentane	iC5: 0.134	0.037
Normal Pentane	nC5: 0.137	0.038
Hexanes Plus	C6+: 0.219	0.050

TOTAL: 100.000 3.847
Z Fact: 0.9998
SP.GR.: 0.6830
BTU (SAT): 1034.3 @ 14.73 psia
BTU (DRY): 1052.6 @ 14.73 psia

OCTANE RATING: 112.3

COMMENTS:

0.000



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

Well Name: FITZGERALD "A" # 5-30
Location: N/2 - N/2 - NE of Sec. 30 - T. 30 S. - R. 31 W.
License Number: A.P.I. #15-081-22,027-00-00
Spud Date: 8/24/2013
Surface Coordinates: SPOT: 330' FNL & 1320' FEL
Region: HASKELL CO., KS.
Drilling Completed: 8/31/2013

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2846' **K.B. Elevation (ft):** 2857'
Logged Interval (ft): 4000' **To:** 5700' **Total Depth (ft):** 5700' RTD 5701' LTD
Formation: MISSISSIPPIAN
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

CASINGS & DEVIATION

Spud at 2:00 am on 08/22/13. Drilled 12-1/4" to 1826'. Ran 42 joints of new 24#, 8-5/8" casing. Tallied 1808.' Set at 1821' KB. Welded straps on shoe, bottom 3 joints and top 2 joints, tacked collars on the remainder. Centralizers (6) on joints 1-3- 5-7-39. Basket at 120'. Float insert in top of 1st joint. Cemented with 450 sks MDC; 3% CC, & 1/4# FS; Plus tailed with 175 sks Common with 2% Gel; 3% CC & 1/4# CF. Cement did circulate.. Plug down at 1:15 pm on 08/22/13. Quality Cementing ticket #5940.

Deviation Survey's Taken: @ 1836' = 1 degree; @ 4688' = 3/4 degree; and @ 5700' = 1-1/4 degree

DSTs

~~ DST # 1 ~ 4666'-4688'. Times: 30"- 60"- 60"- 90".

Blow: IF=Strong/ BOB/1". Weak 2" Blow Back During ISIP. FF= Strong Blow BOB/ Instant & GTS @ 10" (See Gauge Report). FSIP= 7" Blow Back

Recovery: 330' TF: 80" WGMO (20% G; 48% O; 2% W & 30%M); 185' WMGO (25% G; 57% O; 9% W & 7% M); 65' MWOG(36% G; 30% O; 27% W; 7% M). API Oil Grv.= 41 degrees Chl.= 71,000 Ppm. Rw =0.95 @ 80 degrees F.

Pressures: IH= 2518#; FH= 2242#; IF= 48 82#; FF= 81-130#; ISIP= 712#; FSIP= 723#; T.= 123 degrees. F.

Gas Gauge FF= @ 10"= 6.8 Mcf; @ 20"= 7.5 Mcf; @ 30"= 7.8 Mcf; @ 40"= 8.5 Mcf; @ 50"= 9.6 Mcf; @ 60"= 9.9 Mcf.

~~ DST # 2 ~ 5268'-5328'. Times: 30"- 60"- 60"- 90".


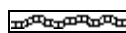
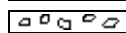

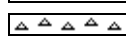
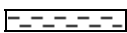









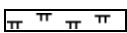


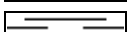
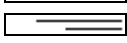
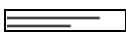



Blow: IF=Strong/ BOB 15sec/GTS @ 3min (See Gauge Report). FF= Strong Blow BOB/ Instant. FSIP= Weak Surface Blow - 2"

Recovery: 170' TF: 170' GCM (5% G; 95%M).











































































Pressures: IH= 2679#; FH= 2490#; IF= 509-458#; FF= 512-478#; ISIP= 1692#; FSIP= 1669#; T.= 118 degrees. F.

Gas Gauge IF= @ 10"=1,466 Mcf; @ 20"= 1,705 Mcf; @30"= 1,726 Mcf. FF= @ 10"= 1,900 Mcf; @ 20"= 2,095 Mcf; @ 30"= 2,117 Mcf; @ 40"= 2,117 Mcf; @ 50"= 2,139 Mcf; @ 60"= 2,139 Mcf.

ROCK TYPES

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

ACCESSORIES

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  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  Grysh	TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
---	---	--	--	--

OTHER SYMBOLS

- POROSITY**
 [E] Earthy
 [B] Fenest
 [F] Fracture
 [X] Inter
 [Z] Moldic
 [O] Organic
 [P] Pinpoint

- [V] Vuggy
SORTING
 [W] Well
 [M] Moderate
 [P] Poor

- ROUNDING**
 [R] Rounded
 [r] Subrnd
 [a] Subang
 [A] Angular

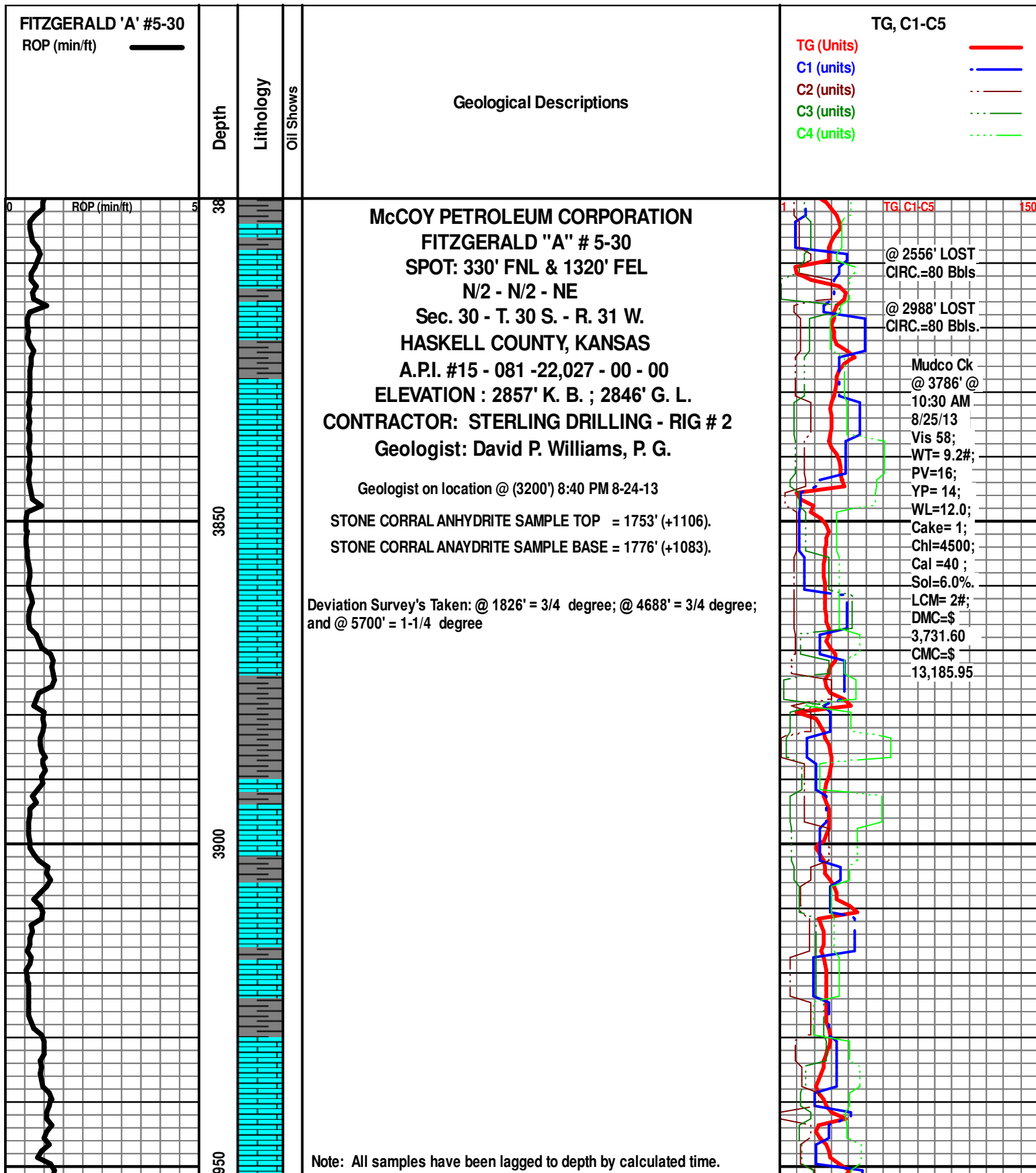
- [●] Even
 [◉] Spotted
 [◌] Ques
 [D] Dead

[■] Dst_alt

- EVENT**
 [▶] Rft
 [◀] Sidewall

- OIL SHOW**
 [X] Gas show

- INTERVAL**
 [■] Core
 [■] Dst



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

Begin 31' Sample Examination @ 4000'.

No Sample Caught.

GAS KICK=
168 UNITS

TG C1-C5

@ 4011' PTD
ADJUST
ANNULAR
VELOCITY
(AV)= 180.10

Ls Crm-Gry FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl)
Barren Poor Dissolu Poor Leaching Chalk Wht Soft Abd Sh Char-Gry-Blk
Carb Fissil No Flor No Stn No Odor NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor OOM Por Poor InterOOM Por
Barren Poor Dissolu Poor Leaching Chalk Wht Soft Sh Char-Gry- Blk Carb
Fissil No Flor No Stn No Odor NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor OOM Por Poor InterOOM Por
Barren Poor Dissolu Poor Leaching Chalk Wht Soft Sh Char- Gry-Blk Carb
Fissil No Flor No Stn No Odor NS

SH GAS KICK=
118 UNITS.

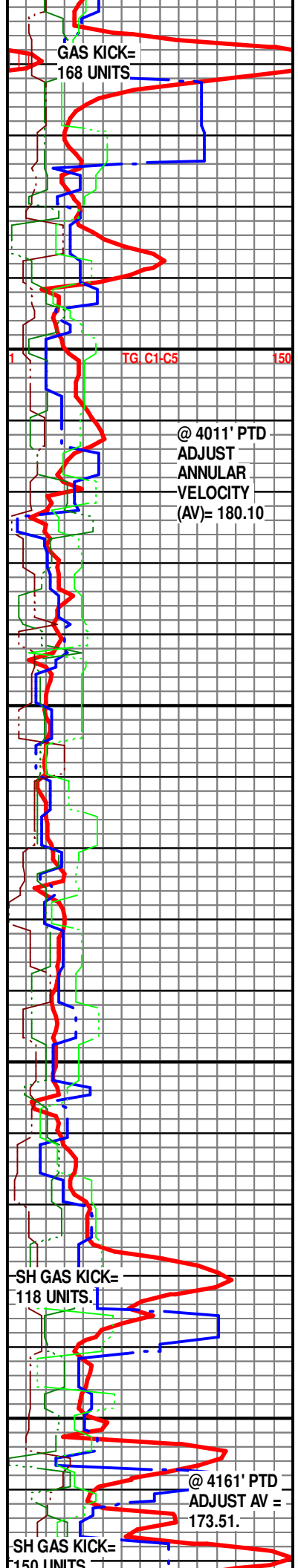
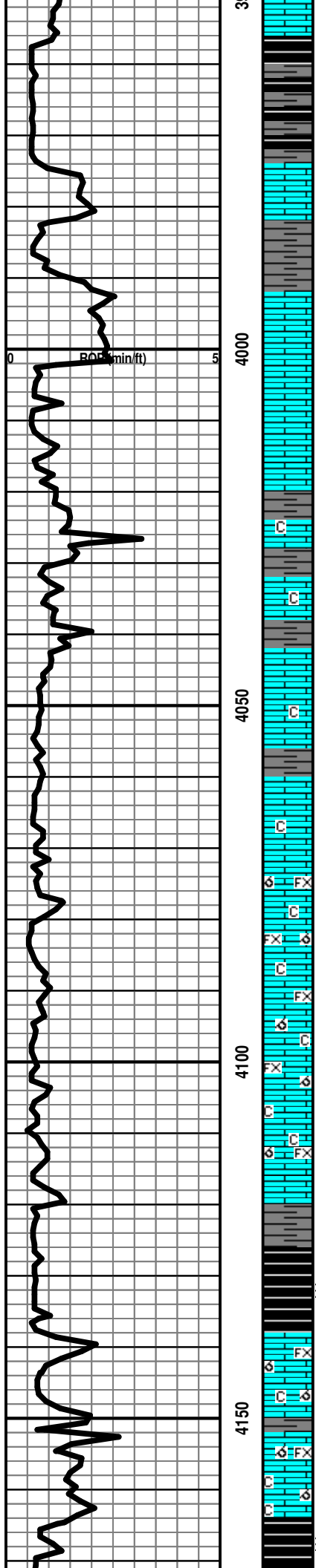
Sh Char-Gry-Blk Carb Fissil Abd Ls Crm-Gry FxIn Dns Micrite Grad Poor
OOM Por Poor InterOOM Por Barren Poor Dissolu Poor Leaching Chalk
Wht Soft No Flor No Stn No Odor NS

@ 4161' PTD
ADJUST AV =
173.51.

SH GAS KICK=
150 UNITS

HEEBNER 4165' (- 1308)

LEVENWORTH 4172' (- 1315)



LEVENWORTH 4172 (- 1315)

Sh -Blk Carb-Char-Grn-Gry Fissil Abd Ls Wht-Crm-Gry-Brn FxIn Dns
Micrite (w/Pyr Includ) Chalk Wht Soft No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite Grad Poor-Fair OOM Por (w/Fair Vug
Leaching-2 pcs) Barren Chalk Wht Sh Char-Grn-Gry- Blk Carb Fissil Abd
No Flor No Stn No Odor NS

LANSING 4224' (- 1367)

Ls Wht-Crm FxIn Dns Micrite Grad Fair IxIn Pin-Pt Por Barren Chalk Wht
Sh Char-Grn-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

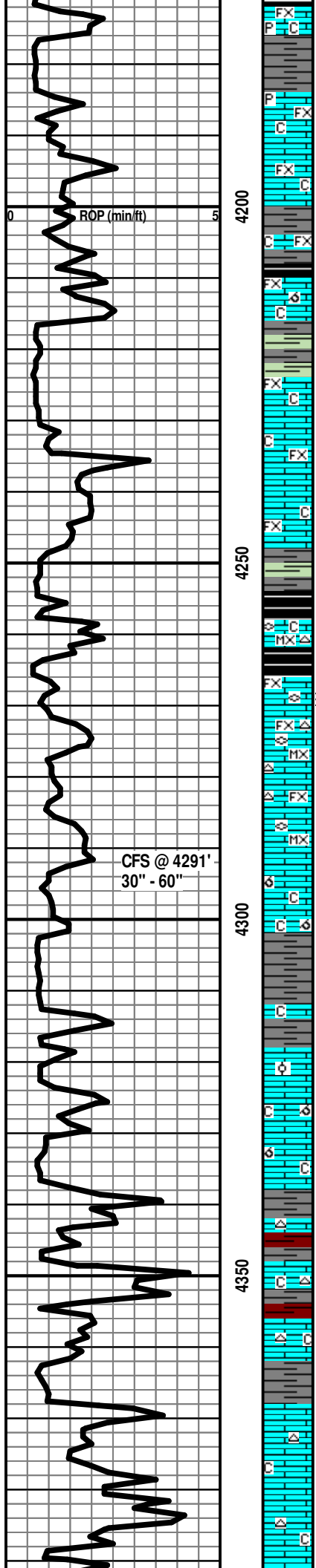
30" CFS @ 4291' Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Poor Pin-Pt
IxIn Por Cht Wht-Crm Op Shp Vit Fos (Fuss) Sh Char-Gry-Blk Carb AA No
Odor No Flor No Stn NS

60" CFS @ 4291' Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Poor Pin-Pt
IxIn Por Cht Wht-Crm Op Shp Vit Fos (Fuss) Sh Char-Gry-Blk Carb AA No
Odor No Flor No Stn NS

CFS @ 4291'
30" - 60"

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor-Fair IxIn Pin-Pt Por Grad Poor
OOM Por (w/OOL in pl) Poor Dissolu Poor Leaching Barren Chalk Wht Sh
Char-Gry-Maroon-Red Fissil ? Min Flor (5 Pcs) No Stn No Odor NS

Ls Wht-Crm-Gry FxIn Dns Mostly Micrite Grad Poor-Fair IxIn Pin-Pt Por
Barren Cht Wht Op Vit Shp Chalk Wht Sh Char- Grn- Gry- Maroon -Red
Fissil ? Min Flor No Stn No Odor NS

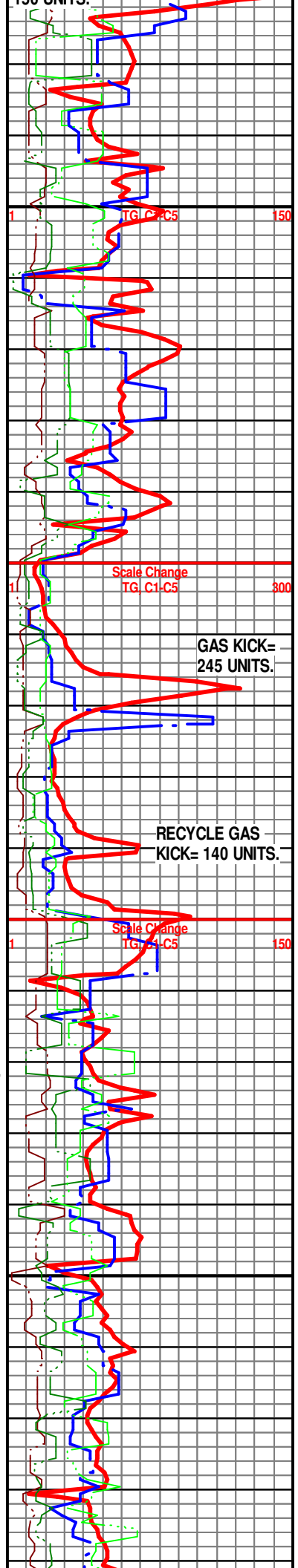


4200

4250

4300

4350



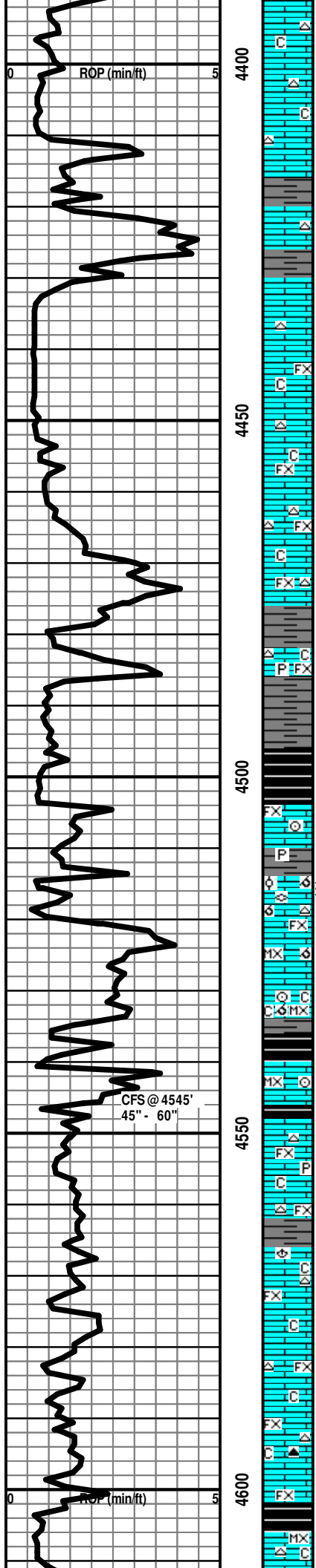
150

Scale Change
TGI C1C5 800

Scale Change
TGI C1C5 150

GAS KICK=
245 UNITS.

RECYCLE GAS
KICK= 140 UNITS.



Ls Wht-Crm-Gry FxIn Dns Mostly Micrite (w/Pyr Includ) Grad Poor-Fair IxIn
 Pin-Pt Por Barren Cht Wht Op Vit Shp Chalk Wht Sh
 Char-Grn/Gry-Maroon-Red Fissil ? Min Flor No Stn No Odor NS

Ls Wht-Crm-Gry FxIn Micritic Grad Poor IxIn Por Cht Wht-Tan-Gry Op Vit
 Shp Chalk Wht Soft Sh Char-Gry-Grn Soft-Fissil No Odor ? Min Flor No Stn
 NS

Begin 10' Wet & Dry Sample Examination @ 4500'.

Ls Wht-Crm-Gry FxIn Micritic Grad Poor IxIn Por Cht Wht-Tan-Gry Op Vit
 Shp Chalk Wht Soft Sh Char-Gry-Grn Soft-Fissil No Odor ? Min Flor No Stn
 NS

Ls Wht-Crm-Gry FxIn Micritic Grad Poor IxIn Por Cht Wht-Tan-Gry Op Vit
 Shp Chalk Wht Soft Sh Char-Gry-Grn Soft-Fissil No Odor ? Min Flor No Stn
 NS

Ls Wht-Crm-Lt Tan FxIn Micritic Grad Poor IxIn Por Cht Wht Op Vit Shp Pyr
 Mass Chalk Wht Soft Abd Sh Char-Gry-Grn Soft-Fissil No Odor ? Min Flor
 No Stn NS

Sh Char-Gry-Blk Carb Soft-Fissil Ls Wht-Crm-Tan FxIn Micritic (w/Poor IxIn
 Por) Fos (Crin) Chalk Wht Soft Abd No Odor ? Min Flor No Stn NS

Sh Char-Gry-Blk Carb Soft-Fissil Ls Wht-Crm-Tan FxIn Micritic (w/Poor IxIn
 Por) Fos (Crin) Chalk Wht Soft Abd No Odor No Min Flor No Stn NS

LANSING "G" 4514' (-1657')

Ls Crm-Lt Tan FxIn Med-Good OOM Por (w/Smal-Med Sized OOL in pl) Med Dissolu Med Vug
 Leaching SG & SFO (In Wtr Under Heat (Both Gas & Oil Do Flor (Lt Grn) Cht Wht (w/Fuss
 Includ) Op Shp Vit Sh Char-Gry (w/Pyr Includ) Fissil Poor-Med Flor Fair Odor Tr Sat Stn Lt Brn
 MSG & MSO

Ls Crm-Wht MicroIn Dns Micrite Grad Poor OOM Por Poor InterOOM Por Barren Poor Dissolu
 Poor Leaching VSSG & VSSO AA (Sluff ?) Fos (Crin) Sh Char-Gry Soft-Fissil No Odor No Stn
 No Flor NS

30" CFS @ 4545' Ls Crm-Wht MicroIn Dns Micrite Grad Poor OOM AA Fos (Crin) Sh
 Char-Gry Soft-Fissil No Odor No Stn No Flor NS

60" CFS @ 4545' Ls Crm-Wht MicroIn Dns Micrite Fos (Crin) Sh Char-Gry Soft- Fissil No
 Odor No Stn No Flor NS

CFS @ 4545'
 45" - 60"

Ls Wht-Tan FxIn Micrite Cht Wht-Gry-Tan Translu- Op Shp Vit Pyr Mass
 Chalky Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS

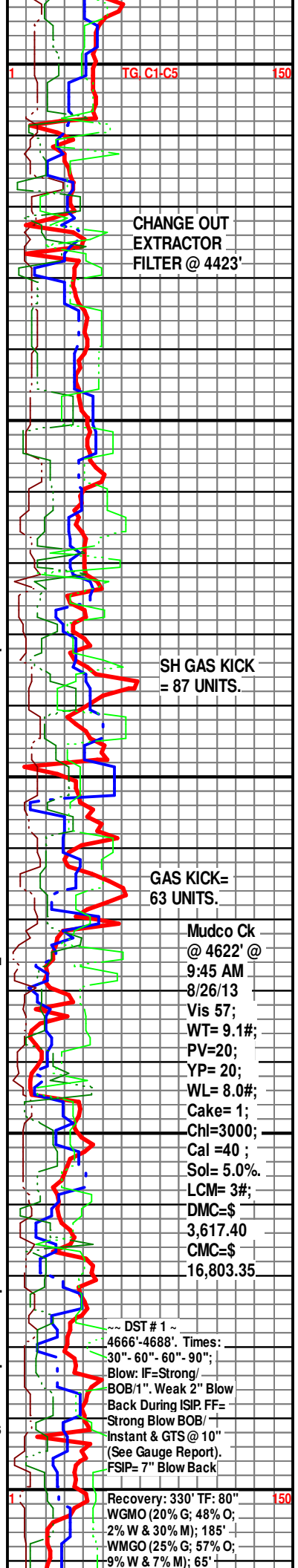
Ls Wht-Crm-Tan FxIn Micrite Cht Wht-Gry Op Shp Vit Fos (Brach) Chalky
 Sh Char-Gry No Odor No Stn No Flor Dec NS

Ls Crm-Tan-Gry FxIn Micrite Cht Wht-Gry Op Shp Vit Chalky Sh Char- Gry-
 Blk Carb No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Micrite Cht Wht-Gry Op Shp Vit Chalky Sh Char- Gry-
 Blk Carb No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Micrite Cht Wht-Amber (Banded) Op Shp Vit Pyr Mass
 Chalky Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Crm-Gry FxIn-MicroIn Micrite Cht Wht Op Shp Vit Chalky Sh Blk
 Carb-Char-Gry Fissil No Odor No Stn No Flor NS



CHANGE OUT
 EXTRACTOR
 FILTER @ 4423'

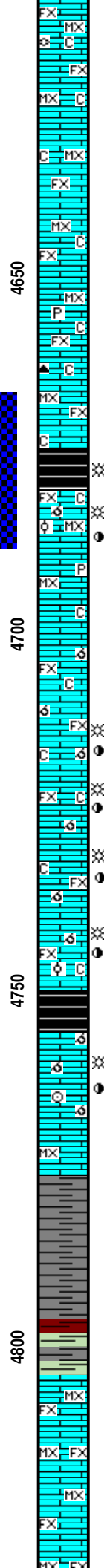
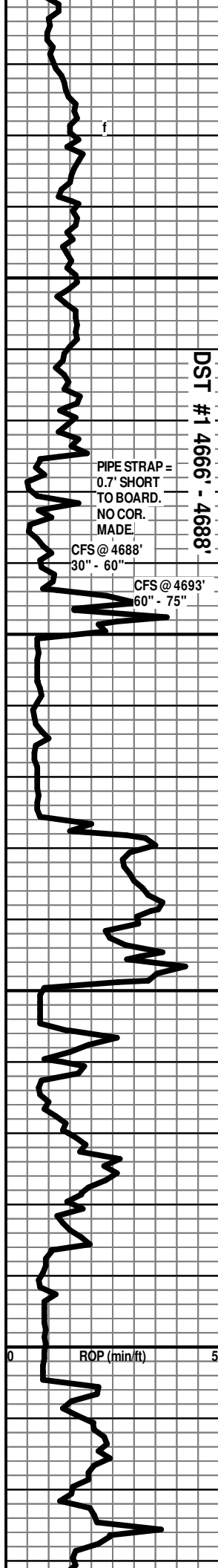
SH GAS KICK
 = 87 UNITS.

GAS KICK=
 63 UNITS.

Mudco Ck
 @ 4622' @
 9:45 AM
 8/26/13
 Vis 57;
 WT= 9.1#;
 PV=20;
 YP= 20;
 WL= 8.0#;
 Cake= 1;
 Chl=3000;
 Cal =40 ;
 Sol= 5.0%.
 LCM= 3#;
 DMC=\$
 3,617.40
 CMC=\$
 16,803.35

~ DST # 1 ~
 4666'-4688'. Times:
 30"- 60"- 60"- 90";
 Blow: IF=Strong/
 BOB/1". Weak 2" Blow
 Back During ISIP. FF=
 Strong Blow BOB/
 Instant & GTS @ 10"
 (See Gauge Report).
 FSIP= 7" Blow Back

Recovery: 330' TF: 80"
 WGMO (20% G; 48% O;
 2% W & 30% M); 185'
 WMGO (25% G; 57% O;
 9% W & 7% M); 65'



Ls Crm-Tan FxIn-MicroxIn Micrite Chalky Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Crm-Tan FxIn-MicroxIn Micrite Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micrite Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micrite Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micrite (w/Pyr Inclus) Chalk Sh Char- Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micrite Cht Drk-Gry (w/Wht Inclus) Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

STARK SHALE 4675' (- 1818)

KANSAS CITY "SWOPE (K)" 4681' (- 1824)

30" CFS @ 4688' Ls Crm-Tan-Gry FxIn-MicroxIn Micrite Grad Poor-Fair OOM Por (1 Pc w/ Good Dissolu & Good InterOOM/IxIn Por w/ SG & SO) Chalk Sh Blk Carb-Char-Gry Soft-Fissil Fair Inc Odor Sli Brn Stn Sli ? Flor (2 Pcs) VSSG & VSSO

60" CFS @ 4688' Ls Wht-Crm FxIn Fair OOM Por Fair-Dissolu Fair Vug Leaching FSG & FSFO (In Wtr Under Heat Both Gas & Oil Do Flor (Lt Grn-Wht)) Cht Wht-Gry Op Shp Vit Chalky Sh Char-Gry-Blk Carb Fissil Tr Flor (5% of Tray) Faint-Fair Odor Inc Tr ? Sat Lt Brn Stn FSG & FSO

60" CFS @ 4693' Ls Crm-Wht MicroxIn Barren Micritic No Vis Por Pyr Mass Chalk AA Sh AA Tr ? Flor (3 pcs) No Odor No Stn NS

75" CFS @ 4693' Ls Crm-Wht MicroxIn Barren Micritic AA Pyr Mass Chalk AA Sh AA Tr ? Flor (2 pcs) No Odor No Stn NS

Ls Crm-Wht FxIn Med OOM/IxIn Por Med Dissolu Med Leaching (w/ VSSG & VSSO AA) Chalk Sh Char-Gry-Blk Carb AA Faint ? Odor Sli Scat Flor Sli Lt Brn Stn VSSG & VSSO

Ls Crm-Wht FxIn Med OOM/IxIn Por Med Dissolu Med Leaching (w/ VSSG & VSSO AA) Chalk Sh Char-Gry-Blk Carb AA Faint ? Odor Sli Scat Flor Sli Lt Brn Stn VSSG & VSSO

Ls Crm-Wht FxIn Med OOM/IxIn Por Med Dissolu Med Leaching (w/VSSG & VSSO AA) Chalk Sh Char-Gry-Blk Carb AA Faint ? Odor Sli Scat Flor Sli Lt Brn Stn SSG & SSO

Ls Crm-Wht FxIn Lg OOM Vug Por (w/Med-Lg OOL in pl) Good Dissolu Good Leaching (w/SSG & SSO) Chalk Sh Char-Gry-Blk Carb AA Faint ? Odor Sli Scat Flor Sli Lt Brn Stn SSG & SSO

HUSHPUCKNEY SHALE 4750' (- 1893)

Sh Blk Carb-Char Fissil Ls AA Med OOM Por Faint ? Odor No Flor No Stn NS

KANSAS CITY "HERTHA (L)" 4756' (- 1899)

Ls Wht-Crm FxIn Med-Good OOM Por Med-Good Dissolu Med-Good Vug Leached Por (w/VSSG & VSSO w/ ? Scatt Lt Grn Flor) Sli ? Odor No Stn VSSG & VSSO

Ls Wht-Crm FxIn Med-Good OOM Por Med-Good Dissolu Med-Good Vug Leached Por (w/VSSG & VSSO w/ ? Scatt Lt Grn Flor) Cht Wht-Gry Op Shp Vit Fos (Crin) Sli ? Odor No Stn VSSG & VSSO

Sh Char-Gry-Blk Carb Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite AA No Odor no Flor No Stn NS

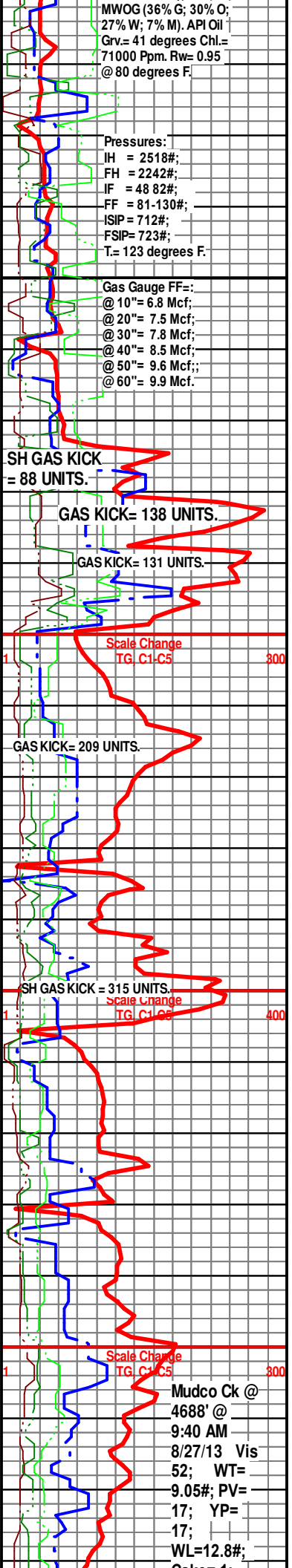
Sh Char-Gry-Blk Carb Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite AA No Odor no Flor No Stn NS

Sh Char-Gry-Blk Carb-Maroon Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite AA No Odor no Flor No Stn NS

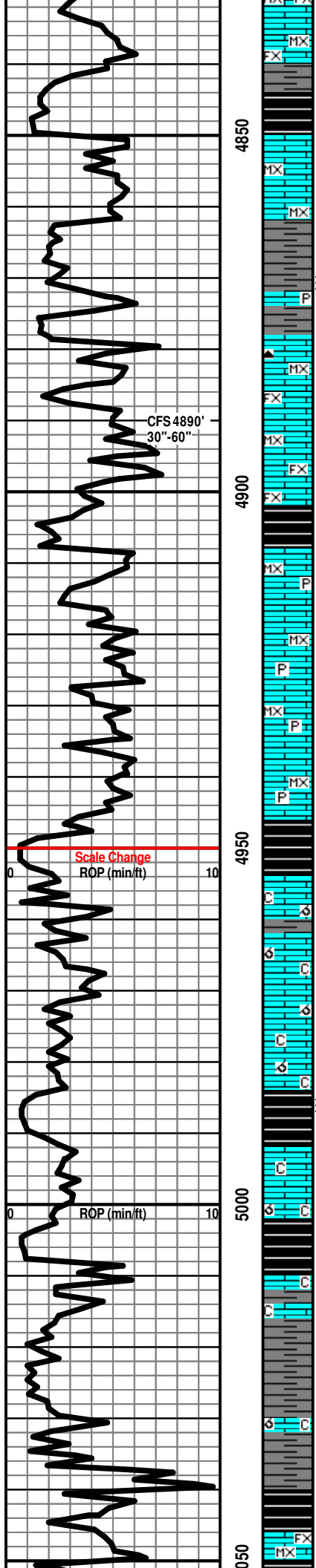
ALTAMONT "A" 4908' (- 2051)

Sh Char-Grn-Gry-Blk Carb Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite AA No Odor No Flor No Stn NS

Sh Char-Grn-Gry-Blk Carb Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite Grad Med-Good Vug OOM Por Barren No Odor No Flor No Stn NS



Mudco Ck @
4688' @
9:40 AM
8/27/13 Vis
52; WT=
9.05#; PV=
17; YP=
17;
WL=12.8#;



Ls Wht-Crm-Tan-Gry MicroIn-FxIn Dns Micrite Sh Blk Carb-Char Fissil No Flor No Stn ? Faint-No Odor NS

Ls Wht-Crm-Tan-Gry MicroIn-FxIn Dns Micrite Sh Blk Carb-Char Fissil No Flor No Stn ? Faint-No Odor NS

MARMATON 4850' (- 1993)

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

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

30" CFS @ 4890' Sh Gry-Char Soft-Fissil Abd Ls Wht-Crm FxIn- MicroxIn Micrite Grad Poor OOM Por (? Sluff) Barren Pyr Mass No Odor No Stn No Flor NS

MARMATON "B" 4879' (- 2022)

60" CFS @ 4890' Ls Wht-Crm-Tan MicroxIn-FxIn Dns Micrite Cht Drk Gry Op Shp Vit Sh Blk Carb-Char Fissil AA No Flor No Stn No Odor NS

Ls Wht-Crm-Tan MicroxIn-FxIn Dns Micrite Cht Drk Gry Op Shp Vit Sh Blk Carb-Char Fissil AA No Flor No Stn No Odor NS

Ls Wht-Crm-Tan MicroxIn-FxIn Dns Micrite Chalk Sh Blk Carb-Char Fissil No Flor No Stn No Odor NS

ALTAMONT 4908' (- 2051)

Ls Wht-Crm-Tan-Gry-Brn MicroxIn Dns Micrite (w/Pyr Inclus) Barren Chalky Sh Blk Carb-Char Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan-Gry-Brn MicroxIn Dns Micrite (w/Pyr Inclus) Barren Chalky Sh Blk Carb-Char Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan-Gry-Brn MicroxIn Dns Micrite (w/Pyr Inclus) Barren Chalky Sh Blk Carb-Char Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan-Gry-Brn MicroxIn Dns Micrite (w/Pyr Inclus) Barren Chalky Sh Blk Carb-Char Fissil No Flor No Stn No Odor NS

PAWNEE 4954' (- 2097')

Ls Wht-Crm-Tan FxIn-MicroxIn Grad Fair-Med OOM Por (w/Small OOids in pl) Fair-Med-Good Dissolu Med-Good Vug Leaching Chalk Sh Char-Gry-Blk Carb Fissil No Odor NoStn NoFlor NS

Ls Wht-Crm-Tan FxIn-MicroxIn Grad Fair OOM Por (w/Small OOids in pl) Fair Good Dissolu Fair Vug Leaching Grad Dns Micrite Chalk Sh Char-Gry-Blk Carb Fissil No Odor NoStn NoFlor NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Grad Fair OOM Por Fair Dissolu Fair Vug Leaching Grad Dns Micrite Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

LABETTE SHALE 4986' (- 2129)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic Grad Poor-Fair OOM Por Poor Dissolu Poor Vug Leaching Chalky No Odor No Flor No Stn NS

FORT SCOTT 4992' (- 2135)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic Chalky No Odor No Flor No Stn NS

CHEROKEE SHALE 5002' (- 2145)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic Grad Med-Good OOM Por Good Dissolu Good Vug Leaching Chalky No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic Grad Med-Good OOM Por Good Dissolu Good Vug Leaching Chalky No Odor No Flor No Stn NS

Sh Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic No Odor No Flor No Stn NS

30" CFS @ 5039' Sh Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic Grad Med-Good OOM Por Good Dissolu Good Vug Leaching Chalky No Odor No Flor No Stn NS

SECOND CHEROKEE SHALE 5040' (- 2183)

Sh Blk Carb-Char-Gm/Gry-Maroon Fissil Ls Wht-Crm FxIn-MicroxIn Micritic No Odor No Stn No Flor NS

Cake= 1;
Chl=6000;
Cal =360;
Sol= 4.7%.
LCM= 3#;
DMC=\$
412.90
CMC=\$
17,216.25

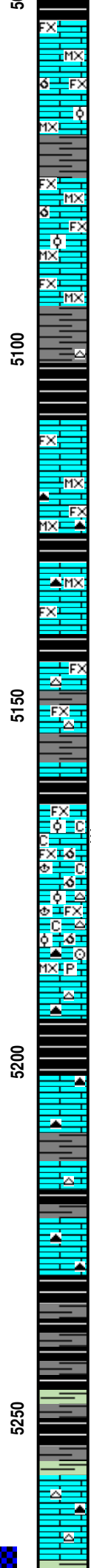
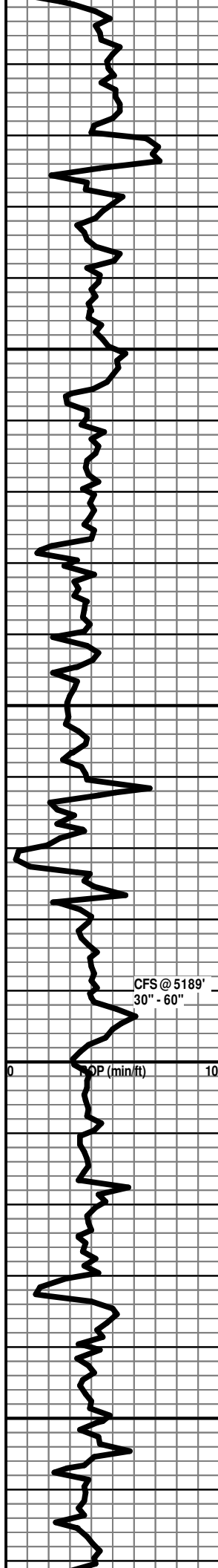
Mudco Ck @
5039' @
9:20 AM
8/28/13 Vis
60; WT=
9.0#; PV=
23; YP=
24;
WL=12.4#;
Cake= 1;
Chl=5400;
Cal =1200;
Sol= 6.6%.
LCM= 3#;
DMC=\$
105.30
CMC=\$
17,321.55

SH GAS KICK = 329 UNITS.

@ 4982' CHANGE-OUT EXTRACTOR FILTER @ 4970' LAG DEPTH.

Scale Change
SH GAS KICK = 180 UNITS.

BIT TRIP @ 5039' CHANGE-OUT PDC TO JZ BUTTON BIT.



Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Sh Char-Gry-Blk Carb-Aqua
 Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn-MicroxIn Micritic Grad Med Yug OOM Por Good
 Dissolu Good Leaching Barren Sh Char-Gry-Blk Carb Fissil No Odor Dec
 NS

Ls Wht-Crm-Gry FxIn-MicroxIn Micritic Grad Med Yug OOM Por Good
 Dissolu Good Leaching Barren Sh Char-Gry-Blk Carb Fissil No Odor Dec
 NS

Ls Wht-Crm-Gry FxIn-MicroxIn Micritic Grad Med OOM/OOL Por (w/Med
 Sized Ooids in pl) Good IxIn Por Barren Sh Char-Gry-Blk Carb Fissil No
 Odor No Flor No Stn NS

Ls Crm-Tan FxIn-MicroxIn Micritic Sh Char-Gry-Blk Carb Fissil No Odor No
 Flor No Stn NS

Sh Char-Gry-Blk Carb Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Cht Wht Op
 Shp Vit No Odor No Flor No Stn NS

Ls Crm-Tan FxIn-MicroxIn Micritic Sh Char-Gry-Blk Carb Fissil No Odor No
 Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micritic Cht Drk Blk Op Shp Vit Sh Blk
 Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micritic Cht Drk Blk-Gry Op Shp Vit Sh Blk
 Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micritic Cht Wht Op Shp Vit Sh Blk
 Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micritic Cht Wht Op Shp Vit Sh Blk
 Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Brn-Crm-Tan FxIn Poor IxIn Por Micritic Dns Barren Grad Med OOM Por
 Med InterOOM & Pin-Pt IxIn Por (w/SG) (Gas Does Flor (Lt Grn)) Chalk Wht
 Soft Sh Char-Gry-Blk Carb Fissil ? Faint Odor Sli Flor Sli ? Stn FSG

30" CFS @ 5189' Ls Brn-Crm-Tan FxIn Med-Good Pin-Pt IxIn Por Grad Med OOM Por Med
 InterOOM (w/GSG & GSO) (Gas & Oil Do Flor (Lt Grn)) Cht Wht-Tan Op Shp Vit Fos (Brach)
 Chalk Wht Soft Sh Char-Gry-Blk Carb Fissil Faint Inc Odor Med Flor Fair Lt Brn Stn GSG &
 GSO

60" CFS @ 5189' Ls Brn-Crm-Tan FxIn Med-Good Pin-Pt IxIn Por Grad Med OOM Por Med
 InterOOM (w/GSG & GSO) (Gas & Oil Do Flor (Lt Grn)) Grad MicroxIn Dns Micrite Cht
 Wht-Amber Translu-Op Shp Vit Fos (Brach, Crin) Chalk Wht Soft Sh Char-Gry-Blk Carb Fissil
 Faint Inc Odor Med Flor Fair Lt Brn Stn GSG & GSO

Ls Crm-Tan MicroxIn Micritic Cht Crm Translu-Op Shp Vit Sh Blk
 Carb-Char-Gry Fissil Faint-No Odor No Srtn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic Cht
 Amber-Brn Translu-Op Shp Vit No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micritic Cht Crm Translu-Op Shp Vit Sh Blk
 Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan FxIn-MicroxIn Micritic Cht Amber-Brn Translu-Op Shp Vit Sh
 Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

ATOKA 5230' (- 2373)

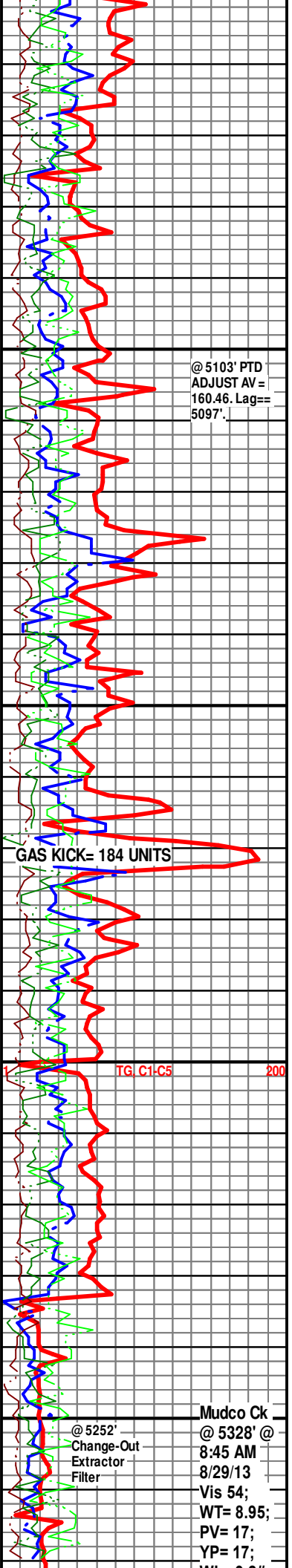
Ls Crm-Tan FxIn-MicroxIn Micritic Cht Amber-Brn Translu-Op Shp Vit Sh
 Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Cht Gry
 Translu-Op Shp Vit No Odor No Srtn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Cht
 Amber-Gry Translu-Op Shp Vit No Odor No Srtn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Cht
 Amber-Gry Translu-Op Shp Vit No Odor No Srtn No Flor NS

Sh Blk Carb-Char-Gry-Aqua Fissil Ls Crm-Tan FxIn-MicroxIn Micritic No
 Odor No Stn No Flor NS



@ 5103' PTD
 ADJUST AV=
 160.46. Lag==
 5097'.

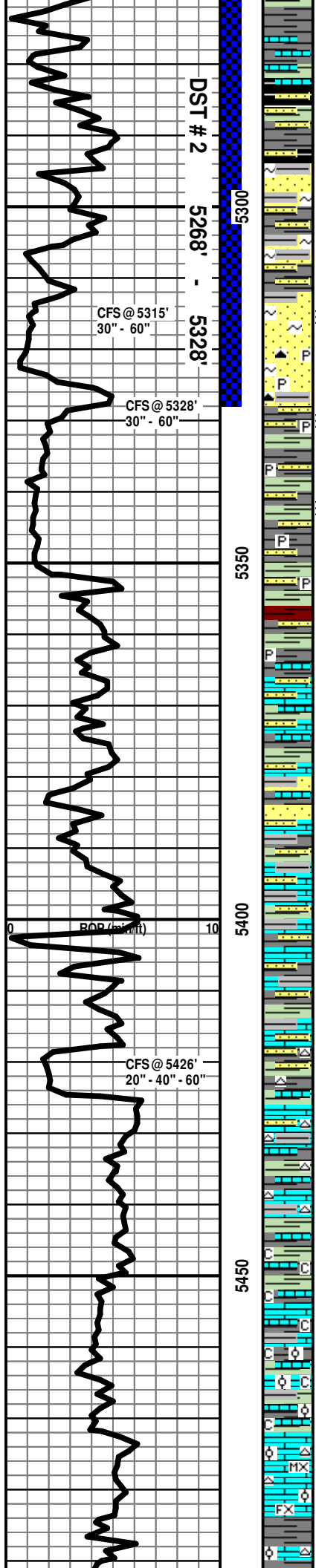
GAS KICK= 184 UNITS

TG C1-C5 200

Mudco Ck
 @ 5252'
 Change-Out
 Extractor
 Filter

@ 5328' @
 8:45 AM
 8/29/13

Vis 54;
 WT= 8.95;
 PV= 17;
 YP= 17;



MORROW SHALE 5277' (- 2420)

Sh Char-Gry-Aqua-Blk Carb Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Grad Poor Pin-Pt IxIn Por Qtz Ss Wht Frosted (w/Glacu Inklus) Small- FGn Poor Sort Friable No Odor No Flor NS

Sh Char-Gry-Aqua-Blk Carb Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Grad Poor Pin-Pt IxIn Por Qtz Ss Gry-Wht Frosted (w/Glacu Inklus) Small- FGn Poor-Sort Friable No Odor No Flor NS

30" CFS @ 5315' Sh Char-Gry-Aqua-Blk Carb Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Grad Poor Pin-Pt IxIn Por Qtz Ss Gry-Wht Frosted (w/Glacu Inklus) Small- FGn Poor-Sort Friable No Odor No Flor NS

MORROW SAND 5312' (- 2455)

60" CFS @ 5315' Sh Char-Gry-Aqua-Blk Carb Fissil Ls Crm-Tan FxIn-MicroxIn Micritic Grad Poor Pin-Pt IxIn Por Qtz Ss Wht Frosted (w/Glacu Inklus Abd) Small- FGn Poor Sort Friable (w/SSG) Faint Odor No Stn No Flor NS

30" CFS @ 5328' Qtz Ss Lt Brn (w/CaCO3) Matrix (w/Glacu Inklus) VF-MGrn Clusters Fair-Sort Friable (w/Med SG Under Heat In Wtr w/Lt Brn Stn & Gas Does Not Flor) Grad Vug Leaching Cht Amber Translu Shp Vit Fos (Crim Pyr Mass Faint Inc Odor No Flor Med SG

60" CFS @ 5328' Qtz Ss Lt-Drk Brn (w/CaCO3) Matrix (w/Glacu Inklus) VF-MGrn Clusters Fair-Sort (w/SSG Under Heat In Wtr w/Lt Brn Stn & Gas Does Not Flor) Grad Dns Poor Igrn Por Cht Amber Translu Shp Vit Pyr Mass Faint Odor No Flor SSG

Evan Stone Geologist Relieved David P. Williams P.G. @ 5328' 12:00 PM on 08/29/13 Due To Scheduling Conflict.

Sh Char-Gry-Grn-Blk Carb Fissil Sandy Ls Wht-Crm FxIn-MicroxIn Micritic Dns Barren Qtz Ss Gry-Wht Frosted (w/Glauc Inklus) VF-FGn Poor-Sort Friable No Odor No Flor NS

CHESTER 5366' (- 2509)

Ls Wht-Crm MicroxIn Micrite Dns Barren Sh Char-Gry-Grn-Blk Carb Fissil Qtz Ss Wht FGn Well-Sort Poor Intergran Por Clusters (with/CaCO3 Cmt Matrix) (No Glauc) No Odor No Flor No Stn NS

Qtz Ss Wht Ang - SubAng FGn Mod-Well Sort Poor Intergran Por (with / CaCO3 Cmt Matrix) (No Glauc) Ls Wht-Crm FxIn Dns Barren Foss Sh Gry-Grn-Red Platy-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry MicroxIn Micrite Dns Barren Sh Gry-Red-Grn-Sm Blk Carb Fissil Qtz Ss Wht FGn Mod-Well Sort Poor Intergran Por Clusters (with/CaCO3 Cmt Matrix) (No Glauc) No Odor No Flor No Stn NS

Ls Wht-Crm FxIn-MicroxIn Micrite Dns Sm Foss Sh Gry-Blk Carb Fissil Qtz Ss Clr-Wht Ang-SubAng FGn Well-Sort Poor Intergran Por (with / CaCO3 Cmt Matrix) Barren No Odor No Flor No Stn NS

60" CFS @ 5426' Sh Varicolored Char-Gry-Blk Carb-Grn-Aqua-Yell-Red Fissil Cht Wht-Tan-Yell Op Shp Vit Ls Wht-Crm MicroxIn Micrite Dns Barren Qtz Ss Clr-Wht FGn Well-Sort Barren No Odor No Flor No Stn NS

Sh Varicolored Char-Lt Gry-Dk Gry-Blk Carb-Aqua-Yell-Red Fissil Ls Wht-Crm-Gry FxIn-MicroxIn Micrite Dns Barren Cht Tan-Yell Op Shp Vit No Odor No Flor No Stn NS

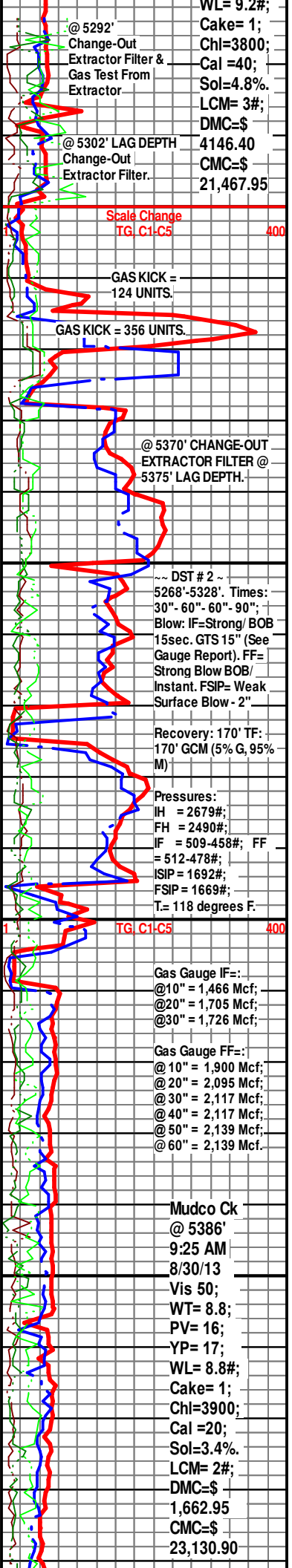
Ls Wht-Crm FxIn-MicroxIn Micrite Dns Chalky Sh Varicolored Char-Lt Gry-Drk Gry-Blk Carb-Aqua-Yell-Red Fissil Cht Wht-Lt Grn-Yell Op Shp Vit No Odor No Flor No Stn NS

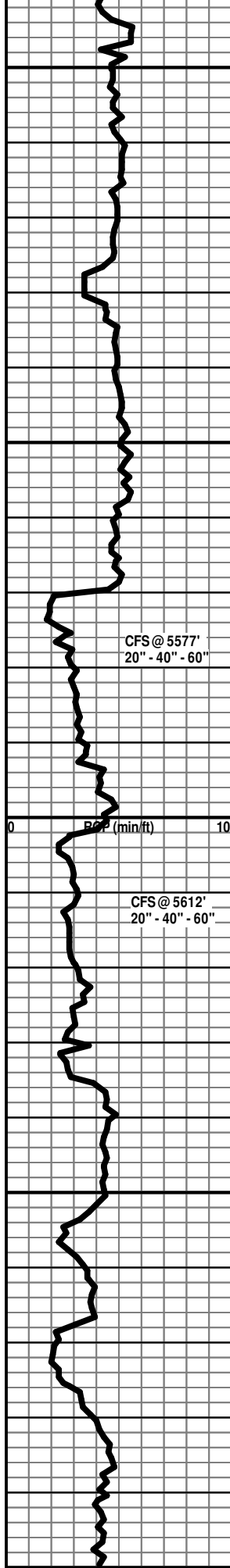
Ls Wht-Crm FxIn-MicroxIn Micrite Dns Sm Arenaceous Chalky Poor-Fair InterIn-InterOOL Por Cht Wht-Gry Op Shp Vit Sh Varicolored Char-Gry-Aqua-Red- Blk Carb Fissil No Odor No Flor No Stn NS

ST. GENEVIEVE 5472' (- 2615)

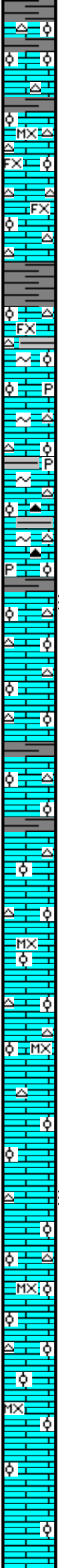
Ls Wht-Crm FxIn Dns Arenaceous Poor InterIn-InterOOL Por Cht Wht-Lt Grn Op Shp Vit Sh Varicolored Lt Gry-Red-Grn-Blk Carb Fissil Sm Sand VFGr-Fgr SubRnd-SubAng No Odor No Flor No Stn NS

Ls Wht-Crm FxIn-MicroxIn Dns Arenaceous Poor-Fair InterOOL Por Sm





5500
5550
5600
5650
5700



Cht Wht Op Shp Vit Sh Varicolored Char-Lt Gry- Red-Grn- Blk Carb Fissil
No Odor No Flor No Stn NS

Ls Wht-Crm-Lt Grn MicroIn Dns Arenaceous Glauc Inklus Poor
InterIn-InterOOL Por Cht Wht Op Shp Vit Sh Varicolored Gry-Red-Brn-Grn
Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Grn FxIn Poor InterIn-InterOOL Por Dns Arenaceous Cht Wht-Lt
Gry Op Shp Vit Sh Varicolored Lt Gry-Yell-Red-Grn Fissil No Odor No Flor
No Stn NS

Sh Varicolored Lt Grn-Gry-Red Fissil Sm Sandy Glauc Inklus Ls
Wht-Crm-Lt Grn FxIn-MicroIn Dns Arenaceous Sm Glauc Inklus Poor
InterIn-Inter OOL Por Sm Cht Wht-Lt Gry Op-Translu Shp Vit No Flor No
Stn NS

Ls Wht-Crm-Lt Grn FxIn Dns Arenaceous Sm Glauc & Pyr Inklus Poor
InterOOL Por Cht AA Sh Varicolored AA Fissil No Odor No Flor No Stn NS

LS Wht-Crm FxIn-MicroIn Dns Arenaceous Sm Chalky Trc Glauc & Pyr
Inklus Poor InterOOL Por Cht Wht-Brn Op-Translu Shp Vit Sm Tripo Sh AA
No Flor No Stn NS

ST. LOUIS 'A' 5570' (- 2713)

40" CFS @ 5577' Ls Wht FxIn Fair-Good OOL Por (with Small/Med OOids in pl) Med-Good
InterOOL Por Scatt Dull Yell Flor Abd Chalk No Odor No Stn VSSG

60" CFS @ 5577' Ls Wht FxIn Fair-Good OOL Por (with Small/Med OOids in pl) Poor-Fair
InterOOL Por Trc Foss Cht Gry-Wht-Tan Op Shp Vit Scatt Dull Yell Flor VSL Odor Abd Chalk No
Flor No Stn NS

Ls Wht FxIn-MicroIn Dns Poor InterIn-InterOOL Por Cht Gry-Tan Op Shp Vit Abd Chalk No
Flor No Stn NS

Ls Wht-Crm FxIn-MicroIn Dns Poor InterOOL Por Cht Wht-Gry Op-Translu Shp Vit Sh Dk
Gry-Grn-Blk Carb Fissil Abd Chalk No Flor No Stn NS

ST. LOUIS 'B' 5602' (- 2745)

Ls Wht FxIn Fair-Good InterOOL Por SSFO (Lt Brn Droplets On Break)
Scatt Brt Yell Flor Strong Odor Cht Wht-Gry Op-Translu Shp Vit Trc Pyr
Mass Abd Chalk Sh Gry-Grn-Red-Brn-Blk Carb Fissil

Ls Wht FxIn-MicroIn VFn OOL (with Small OOids in pl) Poor InterOOL Por
Sm Foss Cht Wht-Gry Op-Translu Sh Gry-Grn-Yell No Flor Fair Odor No
Stn NS

Ls Wht-Crm FxIn-MicroIn VFn OOL (with Small OOids in pl) Poor- Fair
InterOOL Por Cht Wht Translu-Op Shp Vit Sh Varicolored
Aqua-Char-Gry-Maroon AA No Flor V Faint Odor No Stn NS

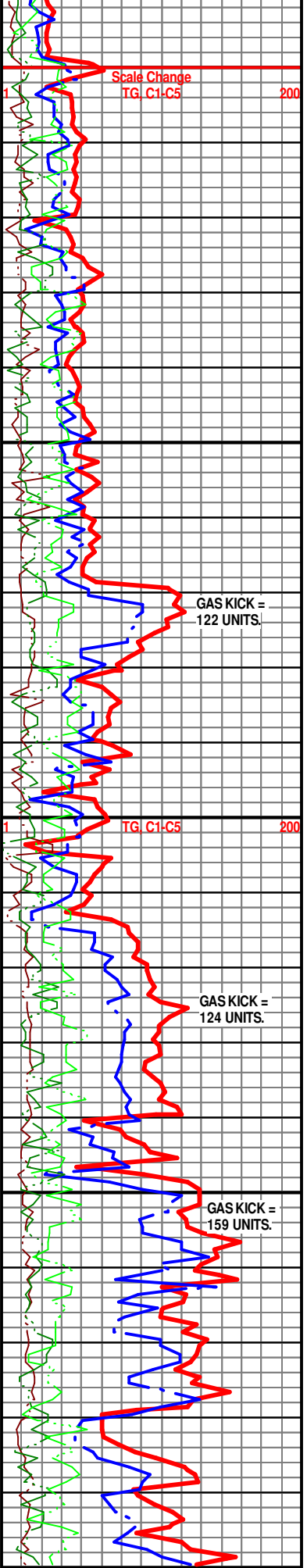
Ls Wht-Crm-Gry FxIn VFn OOL (with V Small OOids in pl) Poor InterOOL
Por Tr Poor OOM Por Cht Wht-Gry-Tan Translu-Op Shp Vit No Flor Sit-Mod
Odor No Stn NS

Ls Wht-Crm FxIn VFn-Fn OOL (with Small-Med OOids in pl) Poor- Fair
InterOOL Por Tr Fair-Good OOM Por Cht AA Spotty Brt Yell Flor Strong
Odor Lt Brn InterOOL Stn NSFO

Ls Wht-Crm-Gry FxIn-MicroIn Fn OOL (with Small-Med OOids in pl) Poor
InterOOL Por Fair-Good OOM Por Cht Wht-Gry Op-Translu Shp Vit Spotty
Brt Yell Flor Fair-Strong Odor Trc Lt Brn InterOOL Stn NSFO

30" CFS @ 5700' Ls Wht-Crm FxIn VFn OOL Por (with V Small OOids in pl)
Poor InterOOL Por Cht Wht-Gry Op Shp Vit No Flor No Odor No Stn NS

60" CFS @ 5700' Ls Wht-Crm FxIn VFn OOL Por (with V Small OOids in pl)
Poor InterOOL Por No Flor No Odor No Stn NS



Scale Change
TG C1-C5
200

GAS KICK =
122 UNITS.

TG C1-C5
200

GAS KICK =
124 UNITS.

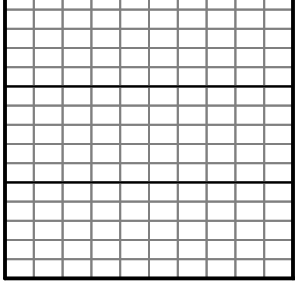
GAS KICK =
159 UNITS.

R.T.D. = 5700' (-2843)
L.T.D. = 5701' (-2844)

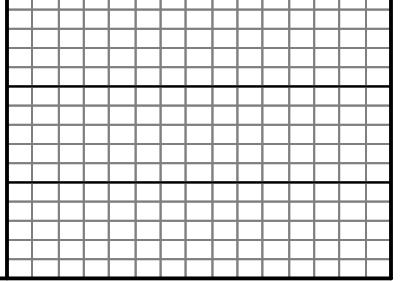
Electric Logs Run: By Weatherford Logging: Dual
Induction; Compensated Density-Neutron; Microresistivity.

R.T.D. @ 4:15 PM 8/31/2013

Geologist Left Location @ 7:00 AM on 9-1-2013



Geologist Left Location @ 7:00 AM on 9-1-2013



QUALITY WELL SERVICE, INC.

5940

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

OFFICE

Heath's Cell 620-727-3410

Office / Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	8-22-13	Sec.	30	Twp.	30	Range	31	County	Haskell	State	Ks	On Location	4:30 A.M.	Finish	1:45 P.M.	
Lease	Fitzgerald		Well No.		A 5-30		Location									Tice Ks Kil UU 5 to 230 rd
Contractor	STERLING OILS #2				Owner				1/4 W Sinto							
Type Job	SURFACE				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	12 1/4		T.D.		1326		Charge To				McCoy Petroleum Corp.					
Csg.	35/3		Depth		1321		Street									
Tbg. Size			Depth				City				State					
Tool			Depth		43.23		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.			Shoe Joint				Cement Amount Ordered				450 sc moc 3 1/2 CC 1/4" CF					
Meas Line			Displace		113 Bbls		175 sc Common				24.6 CL 3 1/2 CC 1/4" CF					
EQUIPMENT																
Pumptrk	No.	3		MIKE		Common		175								
Bulktrk	No.	7		CHAD		POZ-MIX		450								
Bulktrk	No.	9		BRADY		Gel.		3								
Pickup	No.			TOOLS		Calcium		22								
JOB SERVICES & REMARKS																
Rat Hole					Hulls											
Mouse Hole					Salt											
Centralizers	1/2 WAY 1st 3-5-7-9-39 top				Flowseal				156 25							
Baskets	39 Bottom				Kol-Seal											
D/V or Port Collar					Mud CLR 48											
Rm	42 H's 85/3 24" Csg				CFL-117 or CD110 CAF 38											
SET	D 1321'				Sand											
				Handling				650								
				Mileage				30								
Hookup to csg = BREAK circ w/rig				85/3				FLOAT EQUIPMENT								
				Guide Shoe				1 EA								
Mix: Pump 450 sc moc 3 1/2 CC 1/4" CF.				Centralizer				6 EA								
12 1/4 GAL				Baskets				1 EA								
Mix: Pump 175 sc Common 24.6 CL 3 1/2 CC 1/4" CF				AFU Inserts				1 EA								
14.3 1/4 GAL				Float Shoe												
SHUT DOWN wash w/tek = RELEASE TOP R.ubber Plug				Latch-Down				1 EA TOP R.ubber Plug								
DISP 113 Bbls TOTAL																
Plug down D 1:15 P.M. 900"				LMV				30								
RELEASE = HEED				Pumptrk Charge				Sixty								
GOOD CIRC AND JOB				Mileage				30								
CIRC CMT to PT																
THANKS TO AG BRADY MIKE CHAD																
X Signature <i>[Signature]</i>																
												Tax				
												Discount				
												Total Charge				

QUALITY WELL SERVICE, INC.

5942

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

OFFICE

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Office / Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-1-13	30	30	31	HASKELL	KS	11:30 A.M.	7:00 PM
Lease Fitzgerald	Well No. A	S-30		Location TYCE Rd UV S to 230 Rd			
Contractor STEELING Dalg #2				Owner 1 1/2 W Sinto			
Type Job 5 1/2 L.S				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. 5700			Charge To McCoy Pet. Coop.			
Csg. 5 1/2 15.5	Depth 5702.80			Street			
Tbg. Size	Depth			City State			
Tool	Depth			City State			
Cement Left in Csg.	Shoe Joint 43.02			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace 137 gal			Cement Amount Ordered 300 gal mdc			
EQUIPMENT				2 1/2 CC 1/2" C.F. .25% O.A.R. 1 .75% Gas. Blk			
Pumptrk No.	8		MIKE	Common 300			
Bulktrk No.	7		CHAD	Poz. Mix			
Bulktrk No.				Gel.			
Pickup No.			TOO	Calcium 7			
JOB SERVICES & REMARKS				Hulls As-Built 211.5"			
Rat Hole 30 sec				Salt Deformer 70.5"			
Mouse Hole 20 sec				Flowseal 150"			
Centralizers 1-3-8-10-12-14-24-26-28-30				Kol-Seal			
Baskets 16-23				Mud CLR 48 1500 gal			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Ron 135 H's 5 1/2 15.5" Csg				Sand			
1st = 43.02 Float SHOE 20 BOFFLE				Handling 307			
off csg 16' off Bottom				Mileage 30			
Hook up to csg; break core 1 hr w/ rig				5 1/2" FLOAT EQUIPMENT			
Pump 13 Bbls man. Flush				Guide Shoe			
Pump 5 Bbls H ₂ O				Centralizer 10 EA			
Pump 13 Bbls man. Flush				Baskets 2 EA			
Plug R-M Holes				AFU Inserts			
mix; Pump 250 gal mdc 1 13 1/4 gal				Float Shoe 1 EA			
SHUT DOWN wash up tek; CLEAR Pump & Lines				Latch Down 1 EA			
same disp 8 BBL 200"							
20 gal lost circ 50 gal Circ Brk				limv 30			
137 Bbls total Load Plug 1700"				Pumptrk Charge 5 1/2 Longstaring			
Release & Head 6:40 PM				Mileage 30			
				Tax			
				Discount			
				Total Charge			
X Signature <i>[Signature]</i>							