



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1215338  
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: \_\_\_\_\_

1215338

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ACO-1 Supplement Information

## SAMPLE TOPS

McCoy Petroleum Corp.  
MTPRC 'B' #3-22  
C N2 SE  
1980'FSL & 1320'FEL  
Sec 22-30s-19w  
KB: 2243'

	Depth	Datum
LaCompton B	4012	-1769
Queen Hill	4048	-1805
Heebner	4232	-1989
Toronto	4247	-2004
Douglas	4268	-2025
Brown Lime	4420	-2177
Lansing	4440	-2197
Lansing B	4462	-2219
Lansing F	4548	-2305
Lansing H	4614	-2371
Lansing J	4736	-2493
Stark	4762	-2519
Hushpuckney	4815	-2572
Marmaton	4914	-2671
Pawnee	4953	-2710
Cherokee	4992	-2749
Miss.	5072	-2829
Spergen Pors.	5106	-2863
Warsaw	5142	-2899
RTD	5200	-2957

## LOG TOPS

McCoy Petroleum Corp.  
MTPRC 'B' #3-22  
C N2 SE  
1980'FSL & 1320'FEL  
Sec 22-30s-19w  
KB: 2243'

	Depth	Datum
LaCompton B	4012	-1769
Queen Hill	4049	-1806
Heebner	4232	-1989
Toronto	4247	-2004
Douglas	4269	-2026
Brown Lime	4421	-2178
Lansing	4441	-2198
Lansing B	4461	-2218
Lansing F	4552	-2309
Lansing H	4614	-2371
Lansing J	4733	-2490
Stark	4764	-2521
Hushpuckney	4816	-2573
Marmaton	4914	-2671
Pawnee	4954	-2711
Cherokee	4993	-2750
Miss.	5072	-2829
Spergen Pors.	5105	-2862
Warsaw	5138	-2895
LTD	5200	-2957



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E. Central  
Wichita, KS 67206

ATTN: Dave Williams

### **MTPRC "B" #3-22**

### **22-30s-19w Kiowa,Ks.**

Start Date: 2014.05.29 @ 21:38:35

End Date: 2014.05.30 @ 10:16:35

Job Ticket #: 54177                      DST #: 1

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

Printed: 2014.05.30 @ 15:35:24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**22-30s-19w Kiowa, Ks.**

9342 E. Central  
Wichita, KS 67206

**MTPRC "B" #3-22**

Job Ticket: 54177

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.05.29 @ 21:38:35

## GENERAL INFORMATION:

Formation: **Miss.-Salem**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 01:15:50

Time Test Ended: 10:16:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

**Interval: 5082.00 ft (KB) To 5123.00 ft (KB) (TVD)**

Reference Elevations: 2243.00 ft (KB)

Total Depth: 5123.00 ft (KB) (TVD)

2230.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 6773 Outside**

Press@RunDepth: 131.71 psig @ 5083.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.29

End Date: 2014.05.30

Last Calib.: 2014.05.30

Start Time: 21:38:40

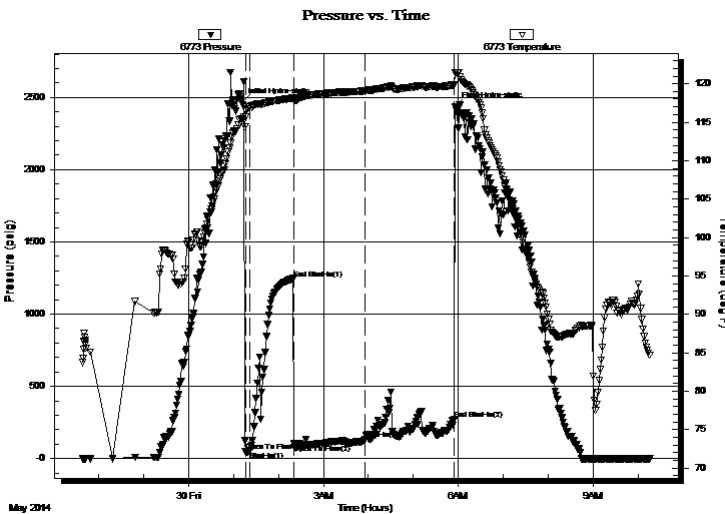
End Time: 10:16:35

Time On Btm: 2014.05.30 @ 01:10:50

Time Off Btm: 2014.05.30 @ 05:55:50

**TEST COMMENT:** IF: Strong blow . B.O.B. in 1 min.  
IS: Strong blow . 8 mins., to bleed off.B.O.B. in 10 mins.  
FF: Strong blow . B.O.B. immediate. G.T.S. in 58 mins. T.S.T.M.  
FS: Strong blow . No bleed off after 25 mins. B.O.B.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2466.14	115.44	Initial Hydro-static
5	51.48	115.68	Open To Flow (1)
11	53.81	117.09	Shut-In(1)
70	1245.49	118.15	End Shut-In(1)
70	101.85	117.89	Open To Flow (2)
165	131.71	119.08	Shut-In(2)
284	272.46	119.86	End Shut-In(2)
285	2436.17	121.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCWGO 3% m 12% w 20% g 65% o	0.30
60.00	MCWGO 3% m 12% w 20% g 65% o	0.30
60.00	MCWGO 3% m 12% w 35% g 50% o	0.30
60.00	MWOG 5% m 15% w 40% o 40% g	0.30
60.00	MWOCG 15% w 20% m 25% g 40% o	0.30
64.00	MWOCG 10% w 25% m 25% g 40% o	0.90

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**22-30s-19w Kiowa, Ks.**

9342 E. Central  
Wichita, KS 67206

**MTPRC "B" #3-22**

Job Ticket: 54177

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.05.29 @ 21:38:35

## GENERAL INFORMATION:

Formation: **Miss.-Salem**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 01:15:50

Time Test Ended: 10:16:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

**Interval: 5082.00 ft (KB) To 5123.00 ft (KB) (TVD)**

Reference Elevations: 2243.00 ft (KB)

Total Depth: 5123.00 ft (KB) (TVD)

2230.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 6719**      **Outside**

Press@RunDepth:                      psig @      5083.00 ft (KB)

Capacity:    8000.00 psig

Start Date:                              2014.05.29                      End Date:                              2014.05.30

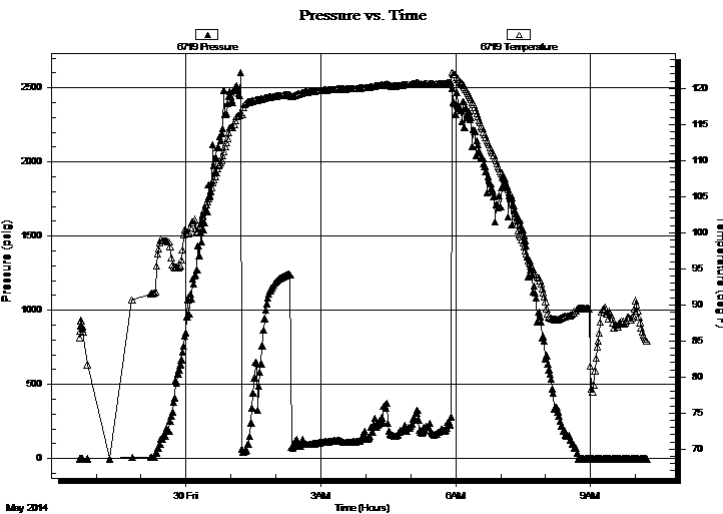
Last Calib.:    2014.05.30

Start Time:                                      21:38:05                      End Time:                                      10:15:45

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Strong blow . B.O.B. in 1 min.  
IS: Strong blow . 8 mins., to bleed off.B.O.B. in 10 mins.  
FF: Strong blow . B.O.B. immediate. G.T.S. in 58 mins. T.S.T.M.  
FS: Strong blow . No bleed off after 25 mins. B.O.B.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCWGO 3%m 12%w 20%g 65%o	0.30
60.00	MCWGO 3%m 12%w 20%g 65%o	0.30
60.00	MCWGO 3%m 12%w 35%g 50%o	0.30
60.00	MWOG 5%m 15%w 40%o 40%g	0.30
60.00	MWOCG 15%w 20%m 25%g 40%o	0.30
64.00	MWOCG 10%w 25%m 25%go 40%g	0.90

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**22-30s-19w Kiowa, Ks.**

9342 E. Central  
Wichita, KS 67206

**MTPRC "B" #3-22**

Job Ticket: 54177

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.05.29 @ 21:38:35

## Tool Information

Drill Pipe:	Length: 4776.00 ft	Diameter: 3.80 inches	Volume: 66.99 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 68.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5082.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5055.00	
Shut In Tool	5.00			5060.00	
Hydraulic tool	5.00			5065.00	
Jars	5.00			5070.00	
Safety Joint	3.00			5073.00	
Packer	4.00			5077.00	28.00 Bottom Of Top Packer
Packer	5.00			5082.00	
Stubb	1.00			5083.00	
Recorder	0.00	6719	Outside	5083.00	
Recorder	0.00	6773	Outside	5083.00	
Perforations	37.00			5120.00	
Bullnose	3.00			5123.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corp.

**22-30s-19w Kiowa, Ks.**

9342 E. Central  
Wichita, KS 67206

**MTPRC "B" #3-22**

Job Ticket: 54177

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.05.29 @ 21:38:35

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

15000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCWGO 3%m 12%w 20%g 65%o	0.295
60.00	MCWGO 3%m 12%w 20%g 65%o	0.295
60.00	MCWGO 3%m 12%w 35%g 50%o	0.295
60.00	MVOG 5%m 15%w 40%o 40%g	0.295
60.00	MVOCG 15%w 20%m 25%g 40%o	0.295
64.00	MVOCG 10%w 25%m 25%go 40%g	0.898
64.00	MVOCG 15%g 25%w 30%m 30%go	0.898
0.00	GTS	0.000

Total Length: 428.00 ft      Total Volume: 3.271 bbl

Num Fluid Samples: 0

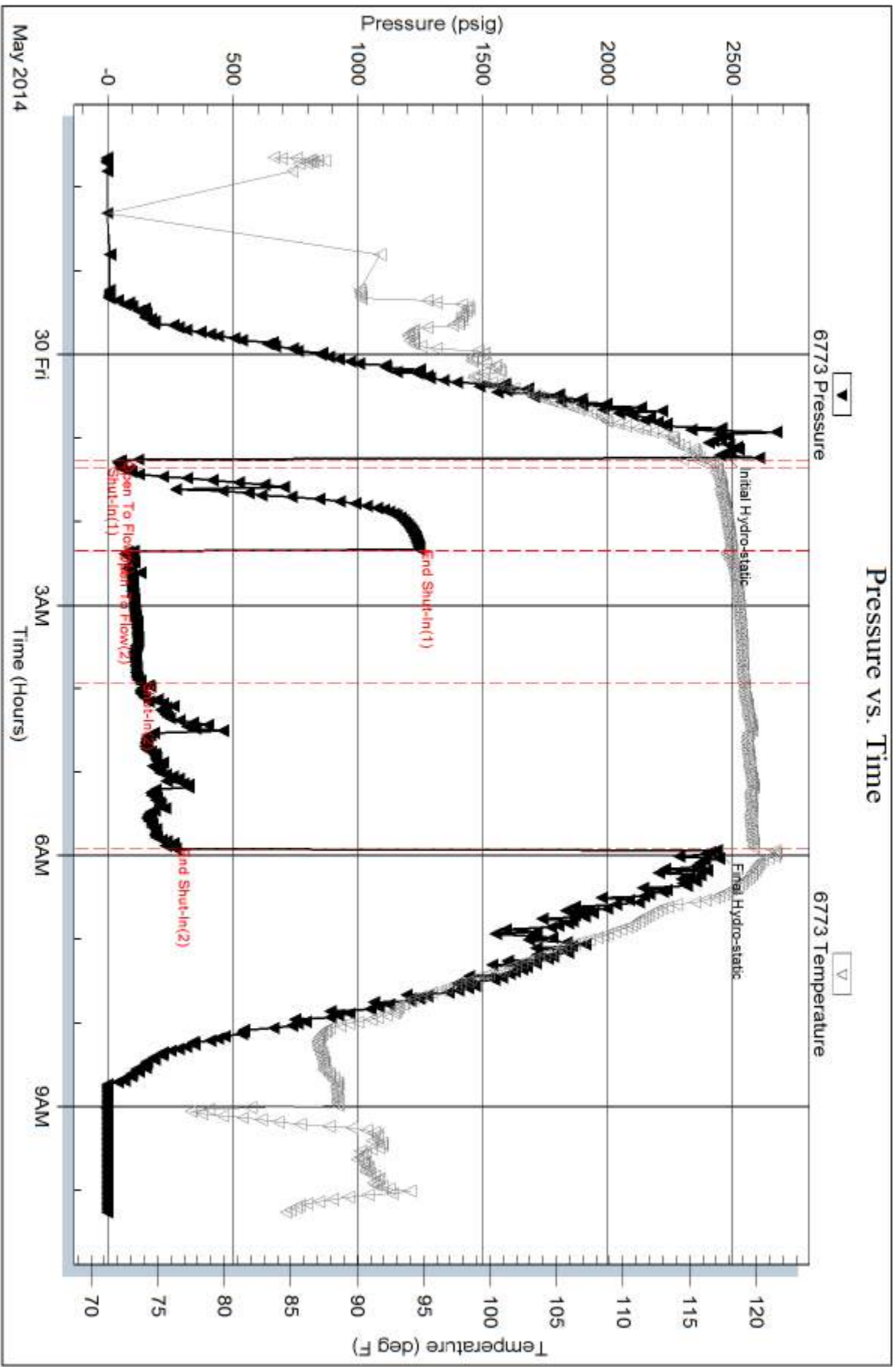
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .40 @78 degrees = 15,000 chorides.

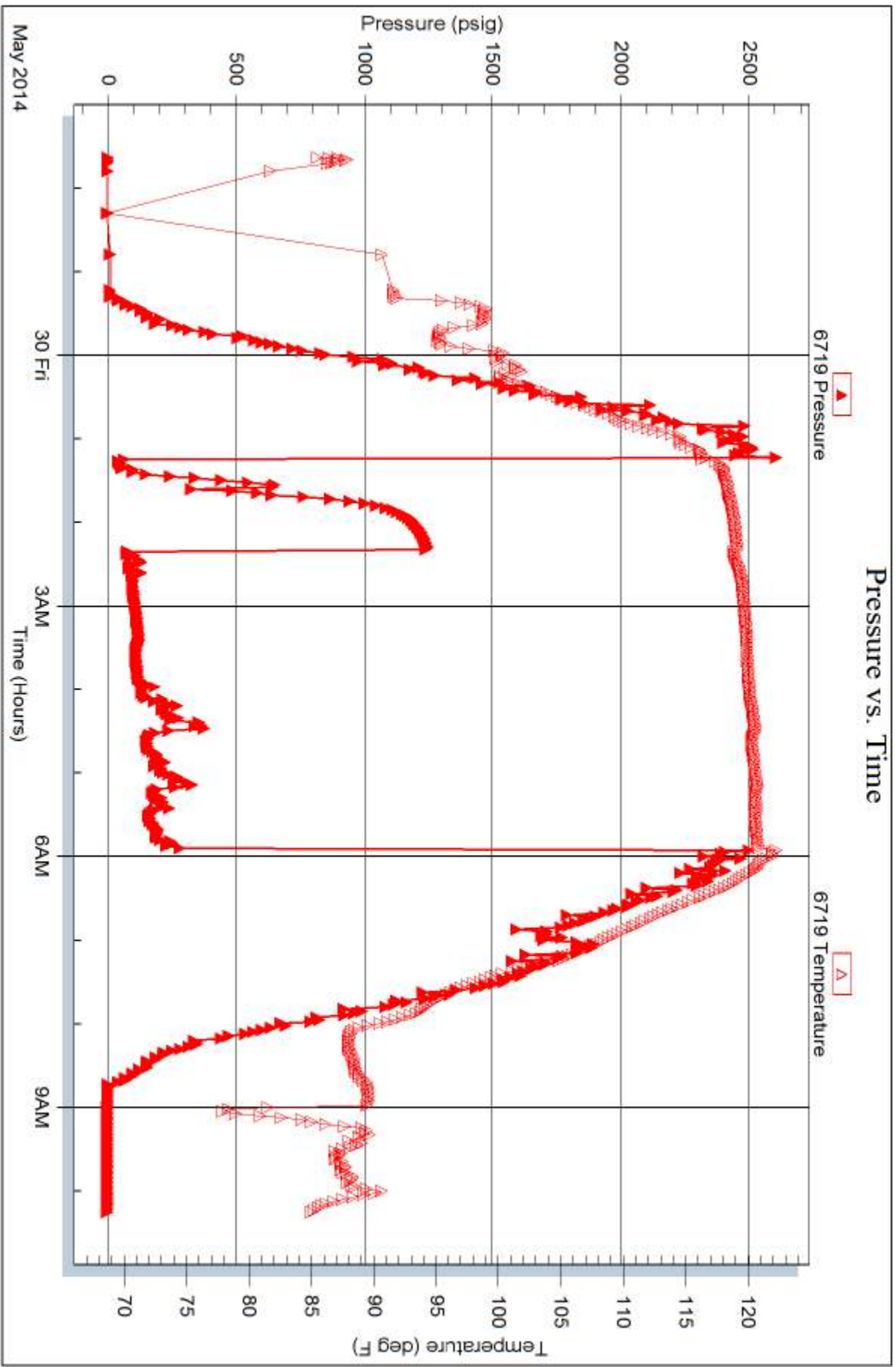


Serial #: 6719

Outside McCoy Petroleum Corp.

MTRRC "B" #3-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54177

Printed: 2014.05.30 @ 15:35:25



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54177

Well Name & No. MTPAC "B" # 3-22 Test No. 1 Date 5/29/14  
 Company M<sup>c</sup>Coy Petroleum Corp. Elevation 2243 KB 2230 GL  
 Address 9342 E. Central Wichita, KS, 67206  
 Co. Rep / Geo. Dave Williams Rig Sterling Rig # 5  
 Location: Sec. 22 Twp. 30S Rge. 19W Co. Kiowa State KS

Interval Tested 5082 - 5123 Zone Tested MISS - SALEM  
 Anchor Length 41' Drill Pipe Run 4,776 Mud Wt. 9.5  
 Top Packer Depth 5077 Drill Collars Run 300 Vis 42  
 Bottom Packer Depth 5082 Wt. Pipe Run 2 WL 9.6  
 Total Depth 5123 Chlorides 4,600 ppm System LCM 0#

Blow Description IF: Strong blow. B.O.B. in 1-min.  
ISI: Strong blow. 8-mins to bleed off. B.O.B. in 18 total mins from S.I.  
FF: Strong blow. B.O.B. immediately. G.T.S. 58 mins. T.S.T.M.  
FSI: Strong blow. No bleed off. B.O.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>4,626</u>	<u>G.I.P.</u>	<u>100</u>			
<u>133</u>	<u>MWOCG</u>	<u>30</u>	<u>20</u>	<u>20</u>	<u>30</u>
<u>60</u>	<u>MWOCG</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>20</u>
<u>120</u>	<u>MCWOCG</u>	<u>40</u>	<u>40</u>	<u>15</u>	<u>5</u>
<u>120</u>	<u>MCWOCG</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>3</u>

Rec Total 433' BHT \_\_\_\_\_ Gravity N.A. API RW = 40 @ 78 °F Chlorides 15,000 ppm

- (A) Initial Hydrostatic 2466
- (B) First Initial Flow 51
- (C) First Final Flow 54
- (D) Initial Shut-In 1245
- (E) Second Initial Flow 102
- (F) Second Final Flow 132
- (G) Final Shut-In 272
- (H) Final Hydrostatic 2437

- Test 1350
  - Jars 250
  - Safety Joint 75
  - Circ Sub \_\_\_\_\_
  - Hourly Standby \_\_\_\_\_
  - Mileage 105 162.75
  - Sampler \_\_\_\_\_
  - Straddle \_\_\_\_\_
  - Shale Packer \_\_\_\_\_
  - Extra Packer \_\_\_\_\_
  - Extra Recorder \_\_\_\_\_
  - Day Standby \_\_\_\_\_
  - Accessibility \_\_\_\_\_
- Sub Total 1837.75

- T-On Location 1915
- T-Started 2138
- T-Open 0115
- T-Pulled 0555
- T-Out 1016

Comments Geo said on Bank @ 8:00 a-  
Started Recorder when they were  
@ collars. No Temp cause printer  
didn't work.

Initial Open 5  
 Initial Shut-In 60  
 Final Flow 90  
 Final Shut-In 120

- Ruined Shale Packer \_\_\_\_\_
- Ruined Packer \_\_\_\_\_
- Extra Copies \_\_\_\_\_
- Sub Total 0
- Total 1837.75
- MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Matthew R. Smith

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.





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

**Well Name:** MTPRC "B" # 3-22  
**Location:** C - N/2 - SE of Sec. 22 - T. 30 S. - R. 19 W.  
**License Number:** A.P.I. #15 - 097 - 21,792 - 00 - 00  
**Spud Date:** 05/24/2014  
**Surface Coordinates:** SPOT: 1980' FSL & 1320' FEL

**Region:** IOWA CO., KS.  
**Drilling Completed:** 05/31/2014

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 2230'                      **K.B. Elevation (ft):** 2243'  
**Logged Interval (ft):** 641'                      **To:** 5200'                      **Total Depth (ft):** 5200'  
**Formation:** MISSISSIPPIAN "WARSAW"  
**Type of Drilling Fluid:** CHEMICAL/POLYMER/GEL WITH MUD DISPLACEMENT @ 3516'.  
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

**Company:** McCOY PETROLEUM CORPORATION KCC LIC. NO. # 5003  
**Address:** 9342 E. CENTRAL  
WICHITA, KANSAS 67206

**GEOLOGIST**

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

**Casing & Deviation Surveys:**

**First Surface Casing String:** Spud at 5:45 pm on 05/24/14. Drilled 17-1/2" hole to 241'. Ran 6 joints of 48# ; 13-3/8" surface casing. Tallied 221.67', set at 236.17' KB. Cut Texas shoe. Strapped bottom 3 joints. Tacked collars & pins. Cemented with 250 sks 60/40 POZ; 2% Gel; 3% CC; 1/4# CF. Cement did circulate. Plug down at 4:15 am on 05/25/14. Basic Energy Svcs Cementing ticket #10395.

**Second Casing String:** Drilled 12-1/4" hole to 645'. Ran 15 joints of new 24# 8-5/8" surface casing. Tallied 626.66'. Landed at 640.66' KB. Strapped guide shoe and bottom 3 joints, tacked collars on all, then welded collar on top 2 joints. Basket at 242'. Cemented with 170 sks ACON; 2% Gel, 3% CC, 1/4# CF & tailed with 150 sks: 60/40 POZ; 3% CC, 1/4# CF. Cement did circulate. Plug down at 12:00 am on 05/26/14. Basic Energy Svcs Cementing ticket #10396.

**Deviation Survey's Taken:** @ 241' = 1 degree; @ 645' = 1 degree; @ 5123' = 1 degree.

## DSTs

~~ DST # 1~~ (Mississippian Spergen) Interval: 5082-5123'.

Times: 5"- 60"- 90"- 120"; Blow: IF=Strong Blow BOB/1". BOB Blow Back on ISIP. FF= BOB with GTS @ 58" - TSTM. BOB Blow Back During FSIP.

Recovery: 4626' GIP: 433' TF: 433' GO (Sli Mud & Wtr Cut).

Pressures: IH =2466#; FH=2437#; IF=51-54#; FF=101-132#; ISIP=1245#; FSIP= False (Leak in SI Tool).

## Comments

### ROCK TYPES

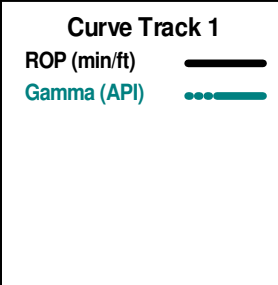
	Anhy		Clyst		Gry sh		Mrlst		Shgy
	Bent		Coal		Gyp		Red shale		Sltst
	Brec		Congl		Igne		Salt		Ss
	Carb sh		Dol		Lmst		Shale		Till
	Cht		Grn sh		Meta		Shcol		

### ACCESSORIES

<b>MINERAL</b>					
	Anhy		Hvymin		Belm
	Arggrn		Kaol		Bioclst
	Arg		Marl		Brach
	Bent		Minxl		Bryozoa
	Bit		Nodule		Cephal
	Brecfrag		Phos		Coral
	Calc		Pyr		Crin
	Carb		Salt		Echin
	Chtdk		Sandy		Fish
	Chtlt		Silt		Foram
	Dol		Sil		Fossil
	Feldspar		Sulphur		Fuss
	Ferrpel				Gastro
	Ferr	<b>FOSSIL</b>			Oolite
	Glau		Algae		Oomold
	Gyp		Amph		Ostra
					Pelec
					Pellet
					Pisolite
					Plant
					Strom
				<b>STRINGER</b>	
					Anhy
					Arg
					Bent
					Coal
					Dol
					Grysh
					Gyp
					Ls
					Mrst
					Sltstrg
					Ssstrg
				<b>TEXTURE</b>	
					Boundst
					Chalky
					Cryxln
					Earthy
					Finexln
					Grainst
					Lithogr
					Microxln
					Mudst
					Packst
					Wackest

### OTHER SYMBOLS

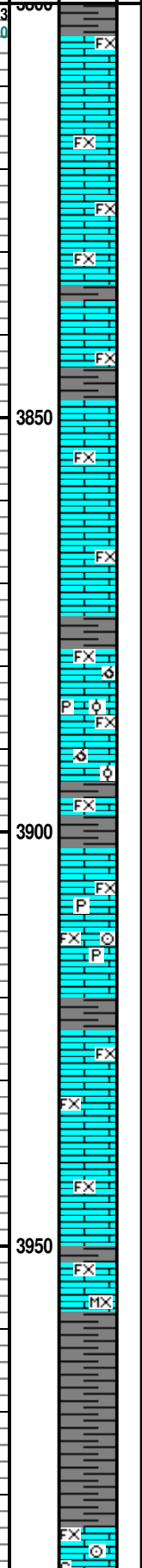
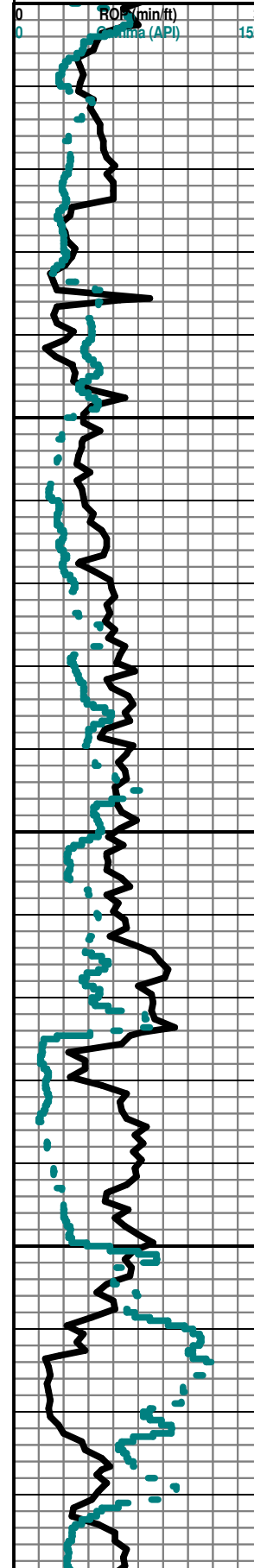
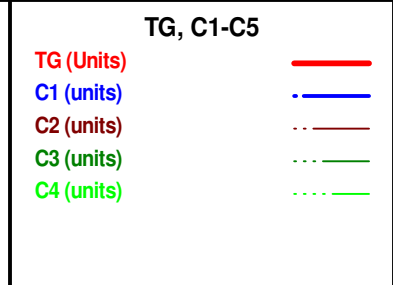
<b>POROSITY</b>					
	Earthy		Vuggy		Rounded
	Fenest	<b>SORTING</b>			Subrnd
	Fracture		Well		Subang
	Inter		Moderate		Angular
	Moldic		Poor	<b>OIL SHOW</b>	
	Organic				Gas show
	Pinpoint				Even
					Spotted
					Ques
					Dead
				<b>INTERVAL</b>	
					Dst
					Dst_alt
				<b>EVENT</b>	
					Rft
					Sidewall



Depth (ft)

Oil Shows

Geological Descriptions



**McCOY PETROLEUM CORPORATION**  
**MTPRC "B" # 3-22**  
**SPOT: 1980' FSL & 1320' FEL**  
**C - N/2 - SE**  
 Sec. 22 - T. 30 S. - R. 19 W.  
 KIOWA COUNTY, KANSAS  
 A.P.I. #15 - 097 - 21,792 - 00 - 00  
**ELEVATION : 2243' K. B. ; 2230' G. L.**  
**CONTRACTOR: STERLING DRILLING - RIG # 5**  
**Geologist: David P. Williams, P. G.**

GEOLOGIST ON LOCATION: @ 9:20 PM on 5/27/14 @ 3381'.  
 Deviation Survey's Taken: @ 241' = 1 degree; @ 645' = 1 degree; @ 5123' = 1 degree.

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

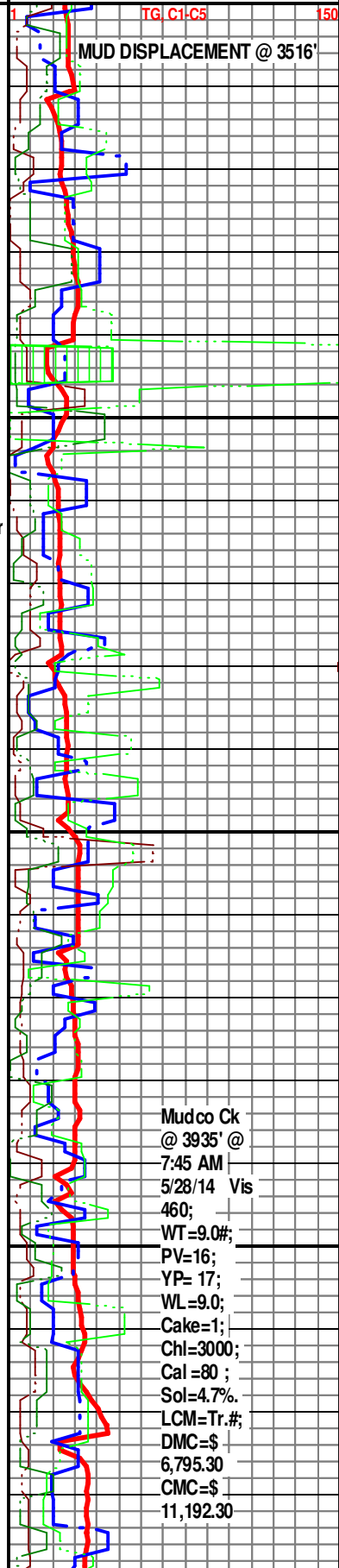
Begin 30' Kelly Down Sample Examination @ 3910'.

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

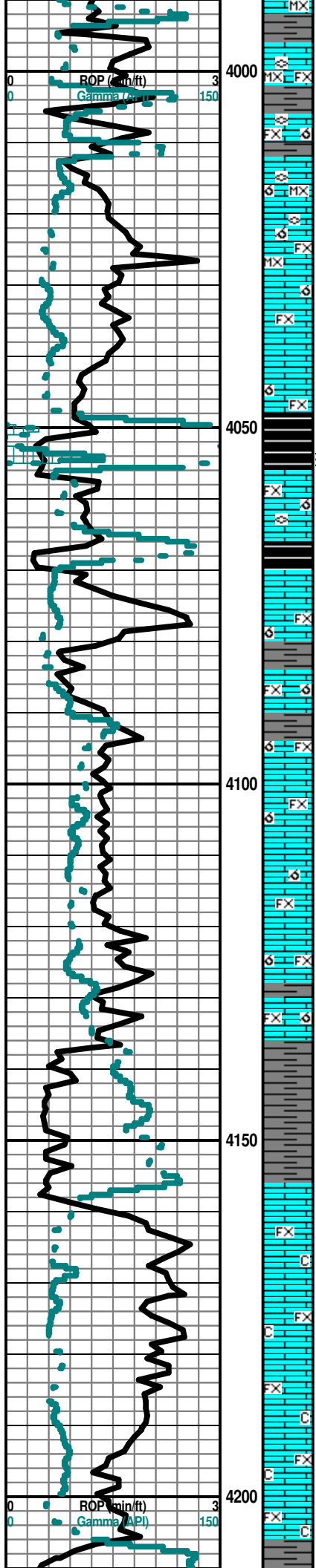
Ls Wht -Crm FxIn Dns Micrite Grad Poor OOM (Small OOids) Por Poor  
 Dissolu Poor Leaching Sh Gry Soft No Odor No Flor No Stn NS

Ls Wht -Crm FxIn Dns Micrite Grad Poor OOM (Small OOids) Por Poor  
 Dissolu Poor Leaching Sh Gry Soft No Odor No Flor No Stn NS

Ls Wht-Gry-Crm FxIn-MicroIxIn Dns Micrite Grad Poor OOM Por Poor  
 Leaching Poor Develop Fos (Crin) Chalky Sh Gry Soft No Odor No Flor No  
 Stn NS



Mudco Ck  
 @ 3935' @  
 7:45 AM  
 5/28/14 Vis  
 460;  
 WT=9.0#;  
 PV=16;  
 YP= 17;  
 WL=9.0;  
 Cake=1;  
 Chl=3000;  
 Cal =80 ;  
 Sol=4.7%.  
 LCM=Tr.#;  
 DMC=\$  
 6,795.30  
 CMC=\$  
 11,192.30



**LECOMPTON "B" 4012' (- 1769)**

Ls Wht-Gry-Crm FxIn-MicroxIn Dns Micrite Grad Poor-Fair OOM Por  
 Poor-Fair Vug Leaching (Tr Lg Vug) Poor-Fair Develop Fos (Fuss) Sh  
 Char-Gry Soft No Odor No Flor No Stn NS

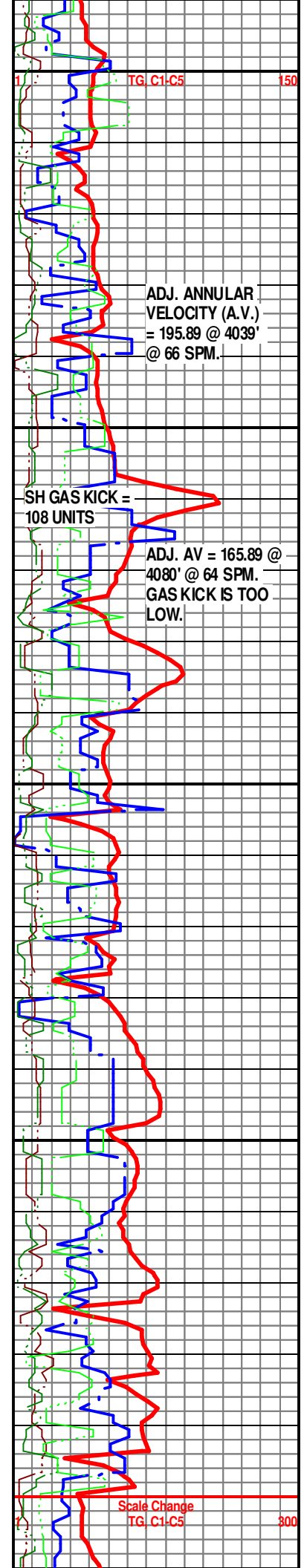
**QUEEN HILL SHALE 4049' (-1805)**

Sh Blk Carb-Char-Gry-Grn Fissil-Soft Ls Wht FxIn Micrite Grad Poor-Fair  
 OOM (Tr Lg Vug) Poor Develop Poor Leaching Fos (Fuss) No Odor No Flor  
 No Stn NS

Sh Blk Carb-Char-Gry-Grn Fissil-Soft Ls Wht FxIn Micrite Grad Poor-Fair  
 OOM (Tr Lg Vug) Poor Develop Poor Leaching No Odor No Flor No Stn NS

Ls Wht FxIn Micrite Grad Poor-Fair OOM (Tr Lg Vug) Poor Develop Poor  
 Leaching Sh Blk Carb-Char-Gry-Grn Fissil-Soft No Odor No Flor No Stn NS

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



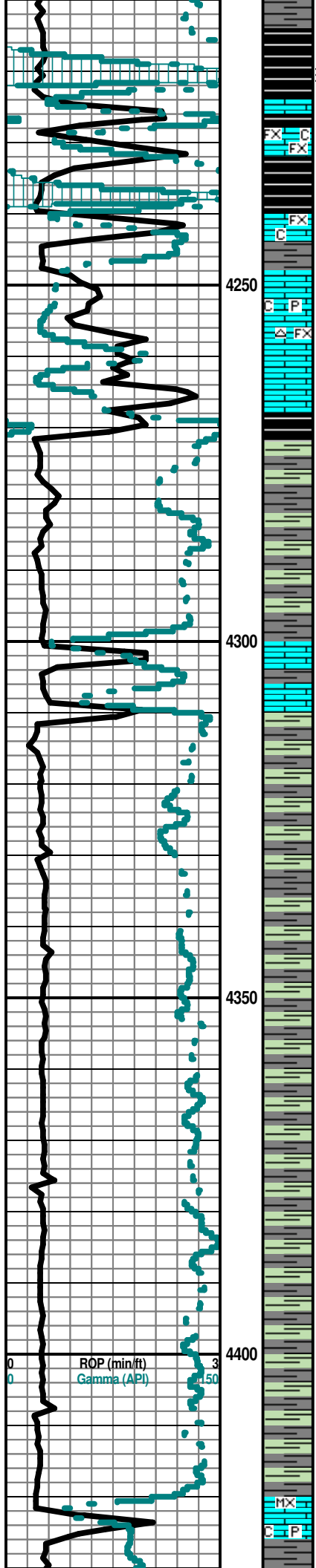
ADJ. ANNULAR  
 VELOCITY (A.V.)  
 = 195.89 @ 4039'  
 @ 66 SPM.

SH GAS KICK =  
 108 UNITS

ADJ. AV = 165.89 @  
 4080' @ 64 SPM.  
 GAS KICK IS TOO  
 LOW.

Scale Change  
 TG C1-C5 800





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

HEEBNER 4232' (-1989)

LEVENWORTH 4240' (- 1997)

TORONTO 4247' (- 2004)

Ls Wht-Crm Fxln Micrite Grad Poor Ixln Pin-Pt Por Cht Wht-Gry Translu-Op  
Shp Vit Pyr Mass Fos (Fuss) Chalky Sh Blk Carb- Char- Gry Fissil-Soft No  
Odor No Flor No Stn NS

DOUGLAS 4268' (-2025)

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

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

Sh Char-Gry-Grn Fissil-Soft Ls Wht-Crm Fxln Micrite Grad Poor Ixln Pin-Pt  
Por Qtz Ss Gry V-FGrn Well Sort Poor IGran Por Dns/ Friable (w/Pyr Includ  
& Carb Includ) No Odor No Flor No Stn NS

START 10' SAMPLES Wet & Dry @ 4330'

Sh Char-Gry-Grn Fissil-Soft Ls Wht-Crm Fxln Micrite Grad Poor Ixln Pin-Pt  
Por Qtz Ss Gry V-FGrn Well Sort Well Rd Poor IGran Por Dns/ Friable  
(w/Pyr/Micaceous & Carb Includ) No Odor No Flor No Stn NS

IATAN (BROWN LIME) 4420' (- 2177)

Ls Wht-Crm-Tan Fxln-MicroIxln Dns Micrite Grad Poor Ixln Por (w/Pyr Includ)  
Chalky Sh Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn NS

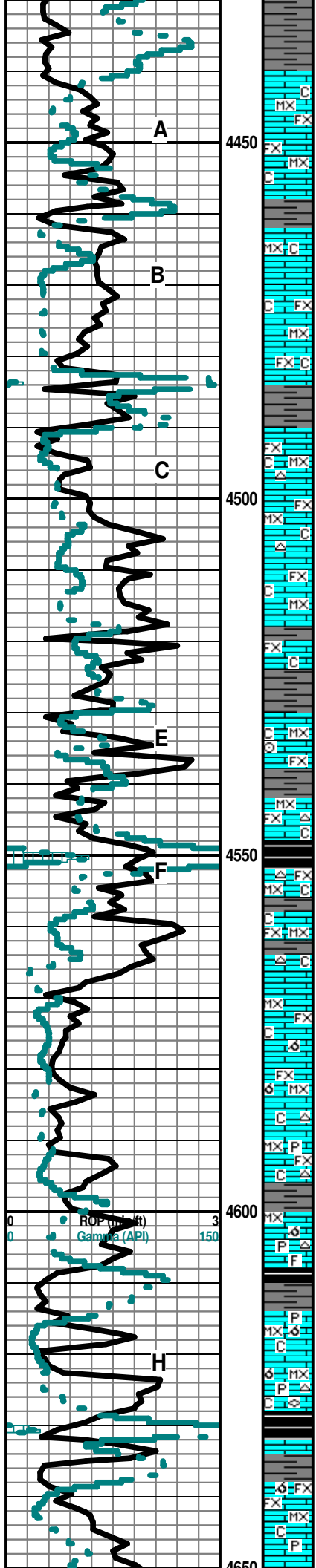
SH GAS KICK =  
235 UNITS.

SH GAS KICK  
= 154 UNITS.

RECYCLE SH  
GAS KICK =  
209 UNITS.

Scale Change  
TG C1.C5 150

TG C1.C5 150



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

**LANSING A 4440' (- 2197)**

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

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

**LANSING B 4462' (- 2219)**

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

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

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

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

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

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

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

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

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

**LANSING "F" 4548' (- 2305)**

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

Ls Wht-Crm-Tan FxIn-MicroxIn Dns Micrite Chalky Gry Op Shp Vit Chalky Sh Blk Carb-Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn NS

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

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

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

Ls Wht-Crm-Lt Tan MicroxIn-FxIn Micritic Grad Fair Inxn Por (w/Tr Lg Vugs) Grad Poor OOM Por Poor Dissolu Poor Leaching Barren Chalky (w/Fos Inclus) Op Shp Vit Pyr Mass Chalky Sh Char-Gry- Blk Carb Fissil No Odor No Flor No Stn NS

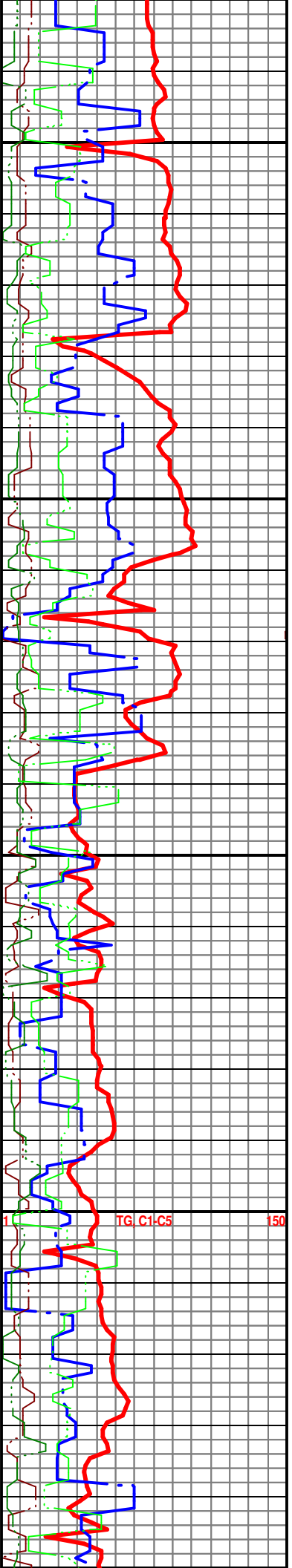
**KANSAS CITY "H" DRUM 4614' (-2371)**

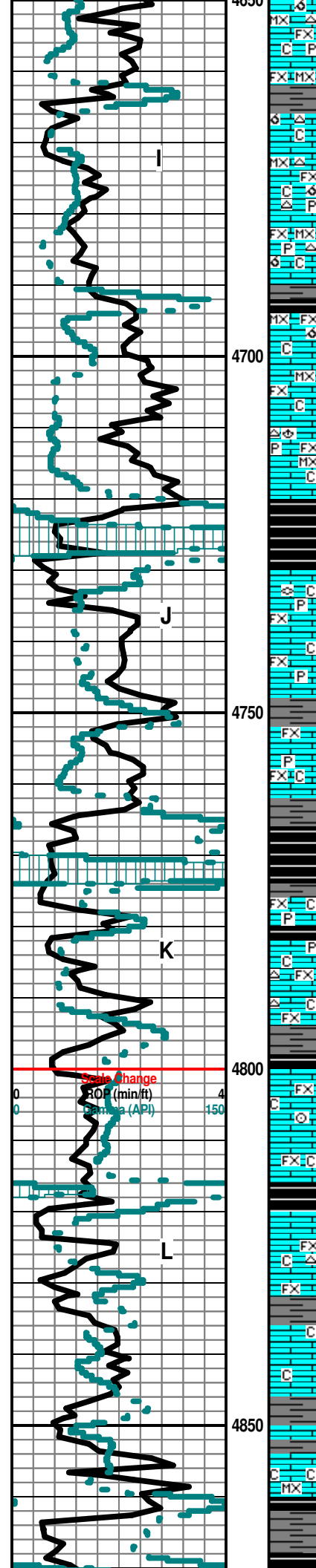
Ls Wht-Crm MicroxIn-FxIn Micritic Grad Fair-Med OOM Por Poor InterOOM Por (Small OOids in pl) V Poor-Fair Leaching (Tr Fair Vug) Poor Develop Chalky Wht-Amber Translu-Op Shp Vit Chalky Pyr Mass Sh Char-Gry (w/Pyr Inclus) Fissil No Odor No Flor No Stn NS

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

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

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





Ls Wht-Crm-Lt Tan Microxn-Fxn Mostly Micrite Tr Poor OOM Por AA Cht-Amber-Lt Brn Op Shp Vit Chalky Pyr Mass Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan Microxn-Fxn Mostly Micrite Grad Fair OOM Por Poor-Fair InterOOM Por Poor-Fair Leaching Poor Develop Cht Wht Op Shp Vit Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan Microxn-Fxn Mostly Micrite Grad Fair OOM Por Poor-Fair InterOOM Por Poor-Fair Leaching Poor Develop Cht Wht Op Shp Vit Chalky Sh Char-Gry (w/Pyr Inclus)-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan Microxn-Fxn Mostly Micrite Grad Fair OOM Por Poor-Fair InterOOM Por Poor-Fair Leaching Poor Develop Cht Wht Op Shp Vit Chalky Sh Char-Gry (w/Pyr Inclus)-Aqua Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry (w/Pyr Inclus) Fissil Ls Wht-Crm-Lt Tan Microxn-Fxn Mostly Micrite Grad Fair OOM Por Poor-Fair InterOOM Por Poor-Fair Leaching Poor Develop Chalky No Odor No Stn No Flor NS

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

Ls Crm-Lt Tan-Wht Microxn-Fxn Mostly Micrite Fair-Med Ixln Por Cht Wht-Gry Translu-Op Shp Vit Foss (Brach) Chalky Sh Blk Carb-Char-Gry (w/Pyr Inclus) Fissil No Odor No Stn No Flor NS

Sh Blk Carb (w/Pyr Inclus) Char-Gry (w/Pyr Inclus) Fissil (w/FSG) Ls Crm-Lt Tan-Wht Microxn-Fxn Mostly Micrite Cht Wht-Gry Op Shp Vit Chalky No Odor No Stn No Flor SG in Blk Carb Sh

**KANSAS CITY "J" DENNNIS 4736' (- 2493)**

Ls Lt Tan-Wht VFxn Mostly Micrite Barren Chalky Foss (Fuss) Chalky Sh Blk Carb (w/Pyr Inclus & FSG AA)-Char-Gry (w/Pyr Inclus) Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht VFxn Mostly Micrite Grad Fair Pin-Pt Ixln Por Cht Wht-Gry Op Shp Vit Pyr Mass Chalky Sh Blk Carb (w/Pyr Inclus & FSG AA)-Char-Gry (w/Pyr Inclus) Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht VFxn Mostly Micrite Grad Poor-Fair Pin-Pt Ixln Por Cht Wht-Gry Op Shp Vit Chalky Sh Blk Carb (w/Pyr Inclus & ? SSG) Char-Gry (w/Pyr Inclus) Fissil No Odor No Stn No Flor NS

**STARK SHALE 4762' (- 2519)**

Sh Blk Carb-Char-Gry Fissil (w/SG Abd in Blk Sh) Ls Lt Tan-Wht Fxn Mostly Micrite Grad Fair Pin-Pt Ixln Por No Vis Por Chalky No Odor No Stn No Flor NS

**KANSAS CITY "K" SWOPE 4775' (-2532)**

Ls Lt Tan-Wht Fxn Mostly Micrite Grad Fair Pin-Pt Ixln Por Inc No Vis Por Cht Wht Op Shp Vit Chalky Pyr Mass Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht Fxn Mostly Micrite Dns Grad Fair Pin-Pt Ixln Por Cht Gry-Wht Op Shp Vit Chalky Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Lt Tan-Wht-Gry Fxn Micrite Dns Grad Fair Pin-Pt Ixln Por Fos (Crin) Chalk No Odor No Stn No Flor NS

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

**HUSHPUCKNEY 4815' (- 2572)**

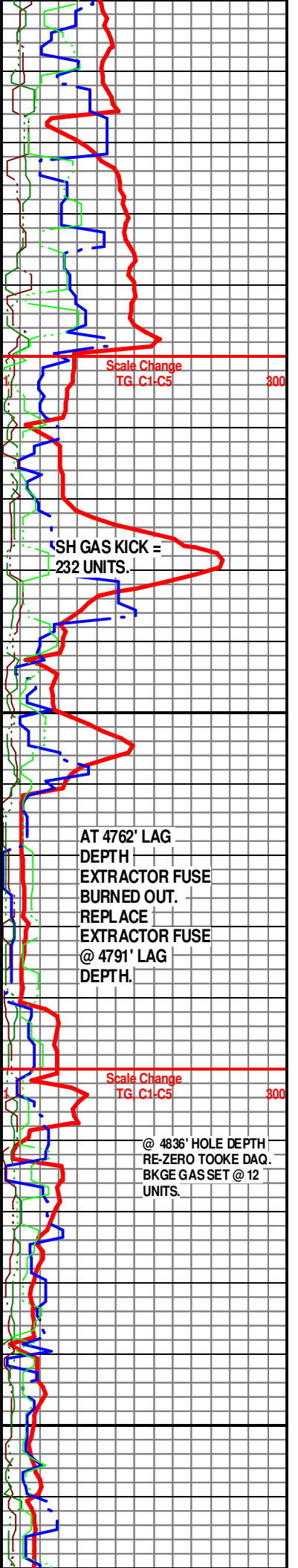
Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm-Gry-Lt Tan Fxn Dns Grad Poor Pin-Pt Ixln Por Cht Amber Translu Shp Vit Chalk No Odor No Stn No Flor NS

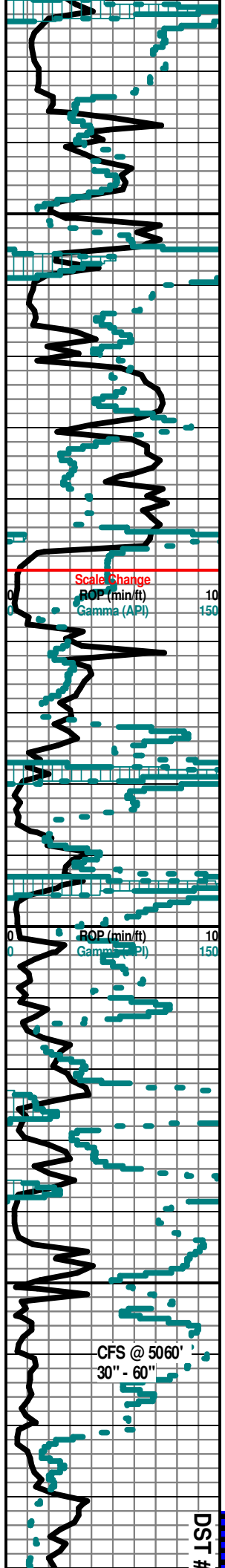
Sh Blk Carb-Char-Gry-Aqua Fissil Ls Wht-Crm-Gry-Lt Tan Fxn Dns Grad Poor Pin-Pt Ixln Por Chalk No Odor No Stn No Flor NS

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

Sh Char-Gry-Grn/Aqua Fissil Ls Crm-Wht Microxn Dns Micrite Chalky No Odor No Stn No Flor NS

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





Sh Char-Gry-Grn/Aqua-Blk Carb Fissil Ls Crm-Wht MicroIn Dns Micrite Chalky No Odor No Stn No Flor NS

Sh Char-Gry-Grn/Aqua-Blk Carb Fissil Ls Crm-Wht MicroIn Dns Micrite Chalky No Odor No Stn No Flor NS

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

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

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

**MARMATON 4914' (- 2671)**

Ls Wht MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por (w/Tr Glacu Includ) Por Cht Amber-Clear-Wht Translu-Op Shp Vit Chalky Sh Blk Carb-Char -Gry- Grn/Aqua Fissil No Odor No Stn No Flor NS

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

Ls Wht-Tan MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Cht Wht-Gry Translu-Op Shp Vit Chalky Tr Calcite-Clear Sh Blk Carb-Char-Gry-Grn/Aqua Fissil No Odor No Stn No Flor NS

**PAWNEE 4953' (- 2710)**

Sh Blk Carb-Gry Fissil Ls Wht-Crm FxIn Micrite Grad Fair-Med Pin-Pt IxIn Por Barren Chalky No Odor No Stn No Flor NS

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

Ls Wht MicroIn-FxIn Dns Micrite No Vis Por Grad Poor Pin-Pt IxIn Por Barren Fos (Brach) Chalk Sh Blk Carb-Char-Grn/Gry Fissil No Odor No Stn No Flor NS

**FORT SCOTT 4984' (- 2741)**

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

**CHEROKEE SHALE 4992' (- 2749)**

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

Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Cht Wht-Crm Op Shp Vit Fos (Brach) Chalky Sh Blk Carb-Char Fissil No Odor No Stn No Flor NS

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

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

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

30" CFS @ 5025' Sh Blk Carb-Char-Gry-Drab Grn-Aqua Fissil Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Grad Poor IxIn Pin-Pt Por Barren Cht Wht-Gry Op Shp Vit No Odor No Stn No Flor NS

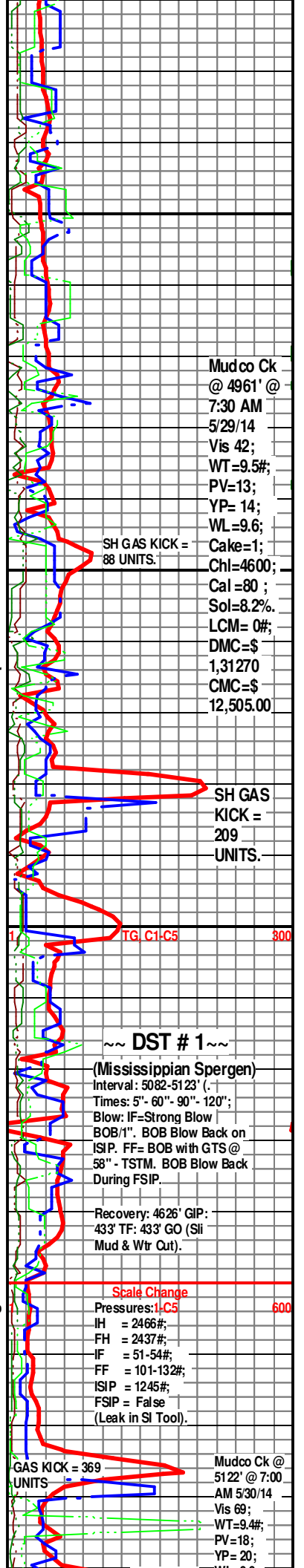
60" CFS @ 5025' Sh Varicolored Blk Carb-Char-Gry-Drab Grn-Aqua Yell-Purp Fissil Ls Wht-Lt Tan MicroIn-FxIn Dns Micrite Grad Poor IxIn Pin-Pt Por Barren Cht Wht-Yell (w/Fos Includ) Op Shp Vit No Odor No Stn No Flor NS

Ls Wht MicroIn-FxIn Micritic Grad Fair Pin-Pt IxIn Por (w/SG) Grad Dolo Crm-Tan Med-Lg IxIn Por Poor IxIn Por "Tite" (w/VSSG) Cht Crm-Tan-Drk Gry (w/Peach & Org Includ) Op Shp Vit (w/SG) Chalky Tr Qtz Ss Wht (w/Hvy CaCO3 Cmt & Glacu Includ) Poor Igran Por Sh Varicolored Blk Carb (w/Pyr Includ) Char-Gry-Drab Grn-Aqua Soft- Fissil No Odor ? V Sli Flor (Lt Grn) Sli SG

**MISSISSIPPIAN 5072' (- 2829)**

Ls Wht MicroIn-FxIn Fair Pin-Pt IxIn Por (w/SG & "Dead" Oil Stn (Drk Blk Gilsonitic Residue)) Cht Crm-Org Op Shp Vit Chalk Abd Tr Qtz Ss Wht AA Sh Varicolored Dec Blk Carb (w/Pyr Includ) Char-Gry-Drab Grn-Aqua Soft- Fissil No Odor ? V Sli Flor (Lt Grn in Chalky Ls) Sli SG

Ls Wht MicroIn-FxIn Fair Pin-Pt IxIn Por (w/SG & "Dead" Oil Stn (Drk Blk Gilsonitic Residue)) Cht Crm-Org Op Shp Vit Chalk Abd Tr Qtz Ss Wht AA Sh Varicolored Dec Blk Carb (w/Pyr Includ) Char-Gry-Drab Grn-Aqua Soft- Fissil No Odor ? V Sli Flor (Lt Grn in Chalky Ls) Sli SG



Mudco Ck @ 4961' @ 7:30 AM 5/29/14 Vis 42; WT=9.5#; PV=13; YP= 14; WL=9.6; Cake=1; Cht=4600; Cal =80 ; Sol=8.2%; LCM= 0#; DMC=\$ 1,31270 CMC=\$ 12,505.00

SH GAS KICK = 209 UNITS.

SH GAS KICK = 209 UNITS.

~ ~ DST # 1 ~ ~  
(Mississippian Spergen)  
Interval: 5082-5123' (.  
Times: 5"- 60"- 90"- 120";  
Blow: IF=Strong Blow  
BOB/1". BOB Blow Back on  
ISIP. FF= BOB with GTS @  
58" - TSTM. BOB Blow Back  
During FSIP.

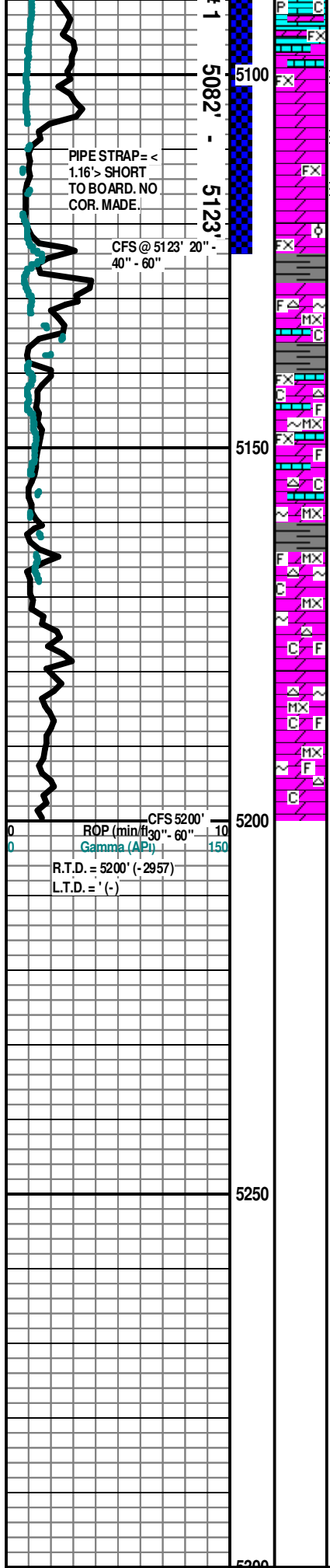
Recovery: 4626' GIP :  
433' TF: 433' GO (Sli  
Mud & Wtr Out).

Scale Change  
Pressures: 1,CS 600  
IH = 2466#;  
FH = 2437#;  
IF = 51-54#;  
FF = 101-132#;  
ISIP = 1245#;  
FSIP = False  
(Leak in SI Tool).

Mudco Ck @ 5122' @ 7:00 AM 5/30/14 Vis 69; WT=9.4#; PV=18; YP= 20;

DST #





**SALEM (SPERGEN) 5196' (- 2853)**

20" CFS @ 5123' Dolo/Ls Wht-Crm-Tan FxIn Med-Good Pin-Pt IxIn "Salt & Pepper" Sucrosic Por (w/GSG & Tr SSO) (w/Gilisonitic Drk Blk Residue) Good Inc Odor (Both Gas & Oil Do Flor Lt Grn & Oil is Transp/Clear) Fair Scat Drk Blk Stn Med Flor (25% of Tray) Med-Good SG & SSO

**SALEM (SPERGEN) Ø 5106' (- 2863)**

40" CFS @ 5123' Dolo/Ls Tan-Crm-Wht FxIn Med-Good Pin-Pt IxIn "Salt & Pepper" Sucrosic Por (w/GSG & SFO) Soft Strong Odor (Both Gas & Oil Do Flor (Lt Grn) & Oil is Transp/Clear/Lt Brn) Good Scat Lt Brn Stn Med-Good Flor (60% of Tray) Good SG & SFO

60" CFS @ 5123' Dolo/Ls Tan-Crm-Wht FxIn Poor OOL Por (w/Small OOL in pl) No-Poor Dissolu Med-Good Pin-Pt IxIn "Salt & Pepper" Sucrosic Por (w/GSG & GSFO) Soft Strong Odor (Both Gas & Oil Do Flor (Lt Grn) & Oil is Transp/Clear/ Lt Brn) Good Scat Lt Brn Stn Med-Good Flor (80% of Tray) Good SG & GSFO

**MISS. WARSAW 5142' (- 2899)**

Dolo/Ls Crm-Tan-Lt Gry-Gry FxIn-MicroIn Dns Micritic Grad Poor-Fair Pin-Pt IxIn Gran Por (w/Glacu Inklus) Cht Wht (w/Fos Inklus) Translu-Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Dolo/Ls Lt Gry-Gry-Crm-Tan FxIn-MicroIn Dns Micritic Grad Poor-Fair Pin-Pt IxIn Gran Por (w/Glacu Inklus) Cht Wht (w/Fos Inklus) Translu-Op Shp Vit Chalk Sh Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

Dolo/Ls Lt Gry-Gry-Crm-Tan FxIn-MicroIn Dns Micritic Grad Poor Pin-Pt IxIn Por (w/Glacu Inklus) Cht Wht-Yell Translu-Op Shp Vit ChalkSh Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

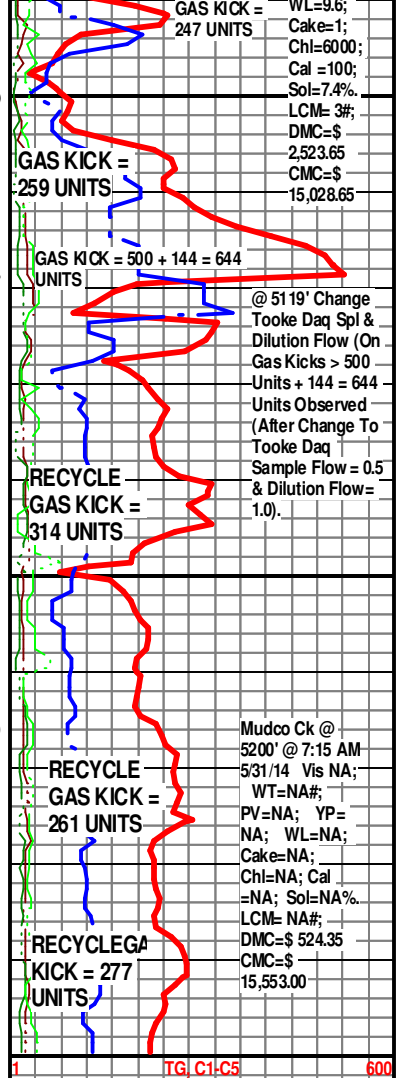
Dolo Gry-Crm MicroIn Dns Micritic Grad Poor Pin-Pt IxIn Por (w/Glacu Inklus) Cht Wht-Gry (w/Fos Inklus) Translu-Op Chalky Sh Char-Gry Fissil No Odor No Flor No Stn NS

30" CFS @ 5200' Dolo Lt Gry-Gry-Crm MicroIn Dns Micritic Grad Poor-Fair Pin-Pt IxIn Granular Por (w/Glacu Inklus) Cht Wht-Translu (w Fos Inklus) Chalk Sh Char-Gry-Blk Carb-Maroon Fissil No Odor No Flor No Stn NS

60" CFS @ 5200' Dolo Lt Gry-Gry-Crm MicroIn Dns Micritic Grad Poor-Fair Pin-Pt IxIn Granular Por (w/Glacu Inklus) Cht Wht-Translu (w Fos Inklus) Chalk Sh Char-Gry-Blk Carb-Maroon Fissil No Odor No Flor No Stn NS

Weatherford Electric Wireline Logs Run : Dual Induction, Compensated Density-Neutron Logs & Microresistivity.

Geologist left Location at: 12:15 PM on 5/31/2014



# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>McCoy Pet Corp</i>		Lease No.		Date	
Lease <i>MTPR 13</i>		Well # <i>3-22</i>		<i>05-25-14</i>	
Field Order # <i>10345</i>	Station	Casing <i>13 3/8</i>	Depth <i>236</i>	County <i>Hiowa</i>	State <i>KS</i>
Type Job <i>CND 13 3/8 conductor</i>			Formation	Legal Description <i>22-30-19</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>13 3/8</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>236</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <i>32</i>	Volume	From	To	Pad	Min			10 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>206</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>DAVE Scott</i>	Treater <i>Robert Jullian</i>
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Service Units	<i>37900</i>	<i>77686</i>	<i>19905</i>	<i>70959</i>	<i>19018</i>				
Driver Names	<i>Sullivan</i>	<i>McGraw</i>	<i>Phye</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:30</i>					<i>CND loc softy meety</i>
					<i>RUN 13 3/8 csp.</i>
<i>3:45</i>			<i>3</i>	<i>3.5</i>	<i>14 SPACER</i>
<i>3:45</i>			<i>54</i>	<i>4.5</i>	<i>mix cmt 250 sk 60/40 por 3% cc 1/4 cr cmt mixed</i>
<i>4:15</i>	<i>150</i>		<i>31</i>		<i>8t Disa plug down</i>
					<i>CIRC 10 BBL cmt Pit</i>
					<i>50B-Complete</i>
					<i>THADY</i>

Customer <i>McCoy Pet Corp</i>	Lease No.	Date <i>05-25-14</i>
Lease <i>MTPRE B</i>	Well # <i>3-27</i>	
Field Order # <i>10396</i>	Station <i>PRATT KC</i>	Casing <i>8 5/8</i>
	Depth <i>640'</i>	County <i>KIOWA</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	Legal Description <i>27-30-19</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>640</i>	Depth	From	To	Pre Pad		Max		5 Min.
Volume <i>38</i>	Volume	From	To	Pad		Min		10 Min.
Max Press <i>300</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>PC</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>311"</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE Scott</i>	Treater <i>Robert Jellard</i>
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Service Units	<i>37900</i>	<i>77686</i>	<i>19905</i>	<i>19831</i>	<i>19862</i>				
Driver Names	<i>Sullivan</i>	<i>McPhee</i>		<i>Cobb</i>					

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>6:45</i>					<i>on loc safety meet</i>
					<i>Run 8 5/8 csp.</i>
<i>11:00</i>					<i>CASING ON BOTTOM</i>
<i>11:10</i>					<i>Hook Dip circ.</i>
<i>11:15</i>			<i>3</i>	<i>3.5</i>	<i>St SPACER</i>
			<i>74</i>	<i>5.5</i>	<i>mix A-con cmt w/ 30% cc 4ccF</i>
			<i>43</i>		<i>mix to 40% cmt 3% cc 1" x 1"</i>
					<i>cmt mixed shut down</i>
					<i>Release Plug</i>
				<i>4.5</i>	<i>St Disp</i>
<i>12:00</i>			<i>38</i>		<i>Plug down</i>
					<i>1 circ 15 BRL CMT PIT</i>
					<i>JOB Complete</i>
					<i>THANKY</i>

# ALLIED OIL & GAS SERVICES, LLC 063190

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

*Medicine Lodge Ks*  
6-1      6-1

DATE <u>5-31-14</u>	SEC. <u>26</u>	TWP. <u>30S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION <u>8:00 PM</u>	JOB START <u>2:40 PM</u>	JOB FINISH <u>4:00 PM</u>
LEASE <u>MTRC B</u>		WELL # <u>3-22</u>		LOCATION <u>Cottwater Ks N To Rd T</u>		COUNTY <u>Kingman</u>	STATE <u>Ks</u>
OLD OR <u>(NEW)</u> (Circle one)				<u>2.5 W 25 W Into</u>			

CONTRACTOR Sterling S OWNER McCoy

TYPE OF JOB Production

HOLE SIZE <u>7 7/8</u>	T.D. <u>5200'</u>
CASING SIZE <u>5 1/2 15.5#</u>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>43.01'</u>
CEMENT LEFT IN CSG. <u>43.01'</u>	
PERFS.	
DISPLACEMENT <u>Fresh 124 BBL</u>	

**EQUIPMENT**

PUMP TRUCK # <u>89/555</u>	CEMENTER <u>Jake Akard</u>
BULK TRUCK # <u>819/823</u>	HELPER <u>Scott Pridley</u>
BULK TRUCK #	DRIVER <u>James Bowen</u>
BULK TRUCK #	DRIVER

CEMENT

AMOUNT ORDERED 150.5x Class A ASC + 5# Kolsal

.5# FH 160 + 1/4# C-41P

50.5x 60' 40' 4' 60'

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC Class A	@	<u>20.90</u>	<u>3135.00</u>
Kolsal	@	<u>1.98</u>	<u>735.00</u>
FH-160	@	<u>18.90</u>	<u>1341.90</u>
C-41-P	@	<u>9.80</u>	<u>372.40</u>
	@		
LC Spacer	@	<u>225.00</u>	<u>2250.00</u>
	@		
60' 40' 4' Blend 50.5x	@	<u>15.30</u>	<u>N/C</u>
	@		
HANDLING	@		
MILEAGE			

2193.60 / 2870      TOTAL 7834.3

REMARKS:

On Location Safety meeting Spot in Rig up Running Casing

CHARGE TO: McCoy

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	<u>5205.39</u>		
PUMP TRUCK CHARGE			<u>3099.25</u>
EXTRA MILEAGE	<u>35</u>	@	<u>4.40</u> <u>154.00</u>
MILEAGE	<u>35</u>	@	<u>7.70</u> <u>269.50</u>
MANIFOLD	<u>Head</u>	@	<u>275.00</u>
Handling	<u>251.39 cu ft</u>	@	<u>2.48</u> <u>623.45</u>
Drayage	<u>374.28 T.mile</u>	@	<u>2.60</u> <u>975.13</u>

1510.41 / 2870      TOTAL 5394.33

**PLUG & FLOAT EQUIPMENT**

Turbolzers	<u>4</u>	@	<u>95.00</u> <u>380.00</u>
AFU Float Shoe	<u>1</u>	@	<u>545.00</u> <u>545.00</u>
Latch Down plug	<u>1</u>	@	<u>325.00</u> <u>325.00</u>

350.00 / 2870      TOTAL 1250.00

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Dave Oliver

SIGNATURE X Dave Oliver

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 14,478.63

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

NET 10,424.61