



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1155123
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: _____



1155123

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

August 13, 2013

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

Re: ACO1
API 15-097-21760-00-00
HILL 'A' #3-23
SW/4 Sec.23-30S-19W
Kiowa County, Kansas

Dear Production Department:

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

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

Respectfully,
Scott Hampel

ACO-1 Supplemental Data

SAMPLE TOPS

McCoy Petroleum

Hill 'A' #3-23

C SW SW

660'FSL & 660'FWL

Sec 23-30s-19w

KB: 2241'	Depth	Datum
LeCompton	4024	-1783
Queen Hill	4061	-1820
Heebner	4238	-1997
Brown Lime	4425	-2184
Lansing	4442	-2201
Lansing "B"	4464	-2223
Lansing "F"	4558	-2317
Kansas City "H"	4609	-2368
Kansas City "J"	4732	-2491
Stark	4774	-2533
Hushpuckney	4822	-2581
Pawnee	4948	-2707
Cherokee	4994	-2753
Mississippian	5056	-2815
Spergen	5094	-2853
Warsaw	5126	-2885
RTD	5200	-2959

LOG TOPS

McCoy Petroleum

Hill 'A' #3-23

CC SW SW

660'FSL & 660'FWL

Sec 23-30s-19w

KB: 2241'	Depth	Datum
LeCompton	4034	-1783
Queen Hill	4064	-1823
Heebner	4238	-1997
Brown Lime	4428	-2187
Lansing	4434	-2203
Lansing "B"	4468	-2227
Lansing "F"	4556	-2315
Kansas City "H"	4621	-2370
Kansas City "J"	4734	-2493
Stark	4776	-2535
Hushpuckney	4824	-2583
Pawnee	4952	-2711
Cherokee	4996	-2755
Mississippian	5062	-2821
Spergen	5096	-2855
Warsaw	5126	-2885
LTD	5203	-2962

QUALITY WELL SERVICE, INC.

5905

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	6-5-13	Sec.	23	Twp.	30	Range	19	County	Nowa	State	Ks	On Location	6:30 AM	Finish	12:30
Lease	H.11 'A'	Well No.	3-23		Location		Greensburg K, S4 r 183 Jct.								
Contractor	STEERING Drilling #2				Owner		JOS to Rd T 3 W to Rd 21 35								
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.		640		Charge To								
Csg.	7 7/8 23"		Depth		638		McCoy Pet. (OP)								
Tbg. Size			Depth				Street								
Tool			Depth				City State								
Cement Left in Csg.			Shoe Joint		35.97		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		38.6		Cement Amount Ordered 150 x MDC 3 1/2 1/2" CT.								
EQUIPMENT							125 x 2 1/2" GEL 3 1/2 1/2" CT.								
Pumptrk	3	No.	BRODY				Common 125								
Bulktrk	7	No.	MIKE				Poz. Mix 150								
Bulktrk	10	No.	DEEKE				Gel. 5								
Pickup		No.					Calcium 10								
JOB SERVICES & REMARKS							Hulls								
Rat Hole							Salt								
Mouse Hole							Flowseal 137.5"								
Centralizers							Kol-Seal								
Baskets			Bottom 13 Jt = 83' Down				Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
Ran 15			7 7/8 23" csg				Sand								
set d			638				1 Jt = 35.97		Baffle plug		Handling 290				
Hook up to csg Break circ w/air							7 7/8		FLOAT EQUIPMENT						
START mix & Pump 150 x MDC									Guide Shoe						
11.5" gal									Centralizer						
START mix & Pump 125 x Gamm									Baskets 1 EA						
15" gal									APU Inserts 1 EA						
SHUT DOWN: Release 7 7/8 wooden plug									Float Shoe						
									Latch Down						
									1 EA wooden Plug						
Disc 33.6 Bbls total									LMI 45						
Close valve on csg 500" 12:15									Pumptrk Charge Surface						
Cross Circ thru JOB									Mileage 45						
Circ out to P. +									Tax						
Thanks Todd Brady Mike Decker									Discount						
X Signature									Total Charge						

QUALITY WELL SERVICE, INC.

5906

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	6-12-13	Sec.	23	Twp.	30	Range	19	County	Kiowa	State	Ks	On Location	4:15 PM	Finish	11:00 PM			
Lease	Hill A		Well No.	3-23		Location		Greensburg Ks 54-183 J&T										
Contractor	STERLING Drilling #2							Owner	10540 T Rd 3 W to 21 Rd									
Type Job	5 1/2 Longstrings							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.	5203		Charge To	McCoy Petroleum Corp											
Csg.	5 1/2		Depth	5200		Street												
Tbg. Size			Depth			City	State											
Tool			Depth			City	State											
Cement Left in Csg.			Shoe Joint	22.06		The above was done to satisfaction and supervision of owner agent or contractor.												
Meas Line			Displace	125 Bbl		Cement Amount Ordered	150 x Q Pro C 10% Salt											
EQUIPMENT													50% 60/40 4th FEL			5 1/2 Gilbert		
Pumptrk	8	No.	MIKE				Common	30 x										
Bulktrk	9	No.	DECK				Poz. Mix	20 x										
Bulktrk		No.					Gel.	4 x										
Pickup		No.					Calcium	Q Pro C 150 x										
JOB SERVICES & REMARKS													Hulls					
Rat Hole	30 x						Salt	16										
Mouse Hole	20 x						Flowseal											
Centralizers	1-3-5-7						Kol-Seal	750"										
Baskets							Mud CLR	48										
D/V or Port Collar							CFL-117 or CD110 CAF	38										
Ron	124 H's 5 1/2 15.5" (csg)						Sand											
SET	d 5200'						Handling	220										
1-H	= 22.06 LD Baffle Float string						Mileage	5 1/2										
FLOAT EQUIPMENT																		
Csg on Bottom Hook up to csg							Guide Shoe											
Break circ: Rotate 1 Hr							Centralizer	4 EA										
Plug R-M HOLES							Baskets											
Pump 13 Bbls mud Flush							AFU Inserts	Rotate Head										
Pump 3 Bbls SPACER							Float Shoe	1 EA										
Mix: Pump 150 x Q Pro C 14.3 1/2 gal							Latch Down	1 EA										
SHUT DOWN wash up tool clear lines																		
RELEASE LD PLUG							LMV	45										
Diss 125 Bbls total							Pumptrk Charge	Longstrings										
Lift psf 750"							Mileage	45										
Plug down 3 10:30 PM 1500'																		
RELEASE! HELD																		
Signature: <i>[Signature]</i>																		
1000 mile DECK																		
													Tax					
													Discount					
													Total Charge					

PLEASE CALL WITH INQUIRY



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corporation**

8080 E Central Ste 300
Wichita, KS 67206

ATTN: Dave Williams

Hill A #3-23

23-30s-19w Kiowa

Start Date: 2013.06.11 @ 01:20:34

End Date: 2013.06.11 @ 10:35:49

Job Ticket #: 50980 DST #: 1

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

Printed: 2013.06.12 @ 16:04:26

McCoy Petroleum Corporation
23-30s-19w Kiowa
Hill A #3-23
DST # 1
Mississippi
2013.06.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corporation

23-30s-19w Kiowa

8080 E Central Ste 300
Wichita, KS 67206

Hill A #3-23

Job Ticket: 50980

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.11 @ 01:20:34

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:47:34

Time Test Ended: 10:35:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 5060.00 ft (KB) To 5120.00 ft (KB) (TVD)

Reference Elevations: 2241.00 ft (KB)

Total Depth: 5120.00 ft (KB) (TVD)

2230.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6798 Inside

Press @ Run Depth: 159.98 psig @ 5061.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.11

End Date:

2013.06.11

Last Calib.:

2013.06.11

Start Time: 01:20:35

End Time:

10:35:49

Time On Btm:

2013.06.11 @ 03:33:49

Time Off Btm:

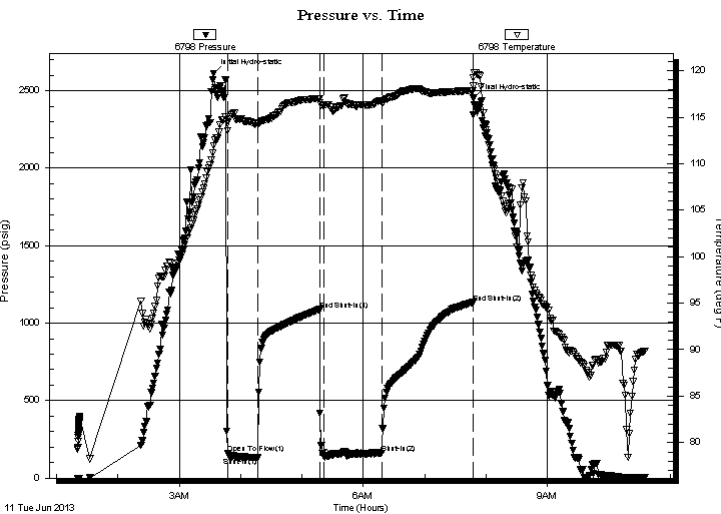
2013.06.11 @ 07:47:49

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds, GTS in 8 minutes, Caught Sample & Gauged w ith Merla Gauge

IS: No Blow Back

FF: Strong Blow , BOB & GTS immediate, Gauged w ith Merla

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2612.37	111.95	Initial Hydro-static
14	159.19	113.53	Open To Flow (1)
43	132.30	114.29	Shut-In(1)
104	1088.16	116.97	End Shut-In(1)
108	142.20	116.30	Open To Flow (2)
164	159.98	116.70	Shut-In(2)
254	1133.61	117.84	End Shut-In(2)
254	2451.97	119.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GSY OWCM 15%G 15%O 20%W 50%M	0.91
248.00	GSY WOCM 10%G 12%W 30%O 48%M	3.23
72.00	GOCM 10%G 2%O 88%M	1.01
0.00	GTS	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corporation

23-30s-19w Kiowa

8080 E Central Ste 300
Wichita, KS 67206

Hill A #3-23

Job Ticket: 50980

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.11 @ 01:20:34

Tool Information

Drill Pipe:	Length: 4845.00 ft	Diameter: 3.80 inches	Volume: 67.96 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 212.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 69.00 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	5060.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			5038.00	
Hydraulic tool	5.00			5043.00	
Jars	5.00			5048.00	
Safety Joint	2.00			5050.00	
Packer	5.00			5055.00	27.00 Bottom Of Top Packer
Packer	5.00			5060.00	
Stubb	1.00			5061.00	
Recorder	0.00	6798	Inside	5061.00	
Recorder	0.00	8367	Outside	5061.00	
Perforations	2.00			5063.00	
Change Over Sub	1.00			5064.00	
Drill Pipe	32.00			5096.00	
Change Over Sub	1.00			5097.00	
Perforations	20.00			5117.00	
Bullnose	3.00			5120.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corporation

23-30s-19w Kiowa

8080 E Central Ste 300
Wichita, KS 67206

Hill A #3-23

Job Ticket: 50980

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.11 @ 01:20:34

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: 126000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	GSY OWCM 15%G 15%O 20%W 50%M	0.910
248.00	GSY WOCM 10%G 12%W 30%O 48%M	3.233
72.00	GOCM 10%G 2%O 88%M	1.010
0.00	GTS	0.000

Total Length: 505.00 ft Total Volume: 5.153 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW was .06 @ 78 degrees

Serial #: 6798

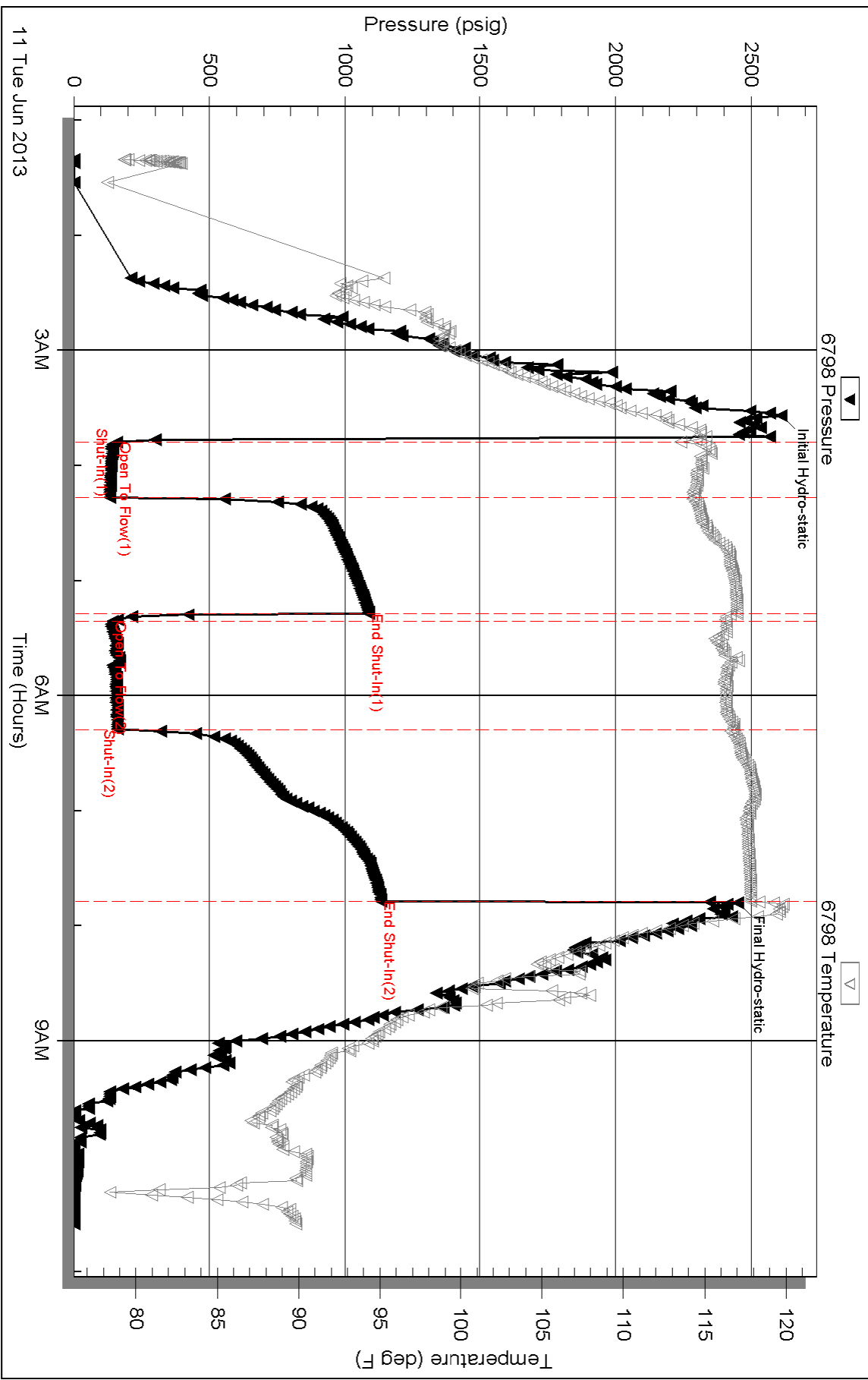
Inside

McCoy Petroleum Corporation

Hill A #3-23

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50980

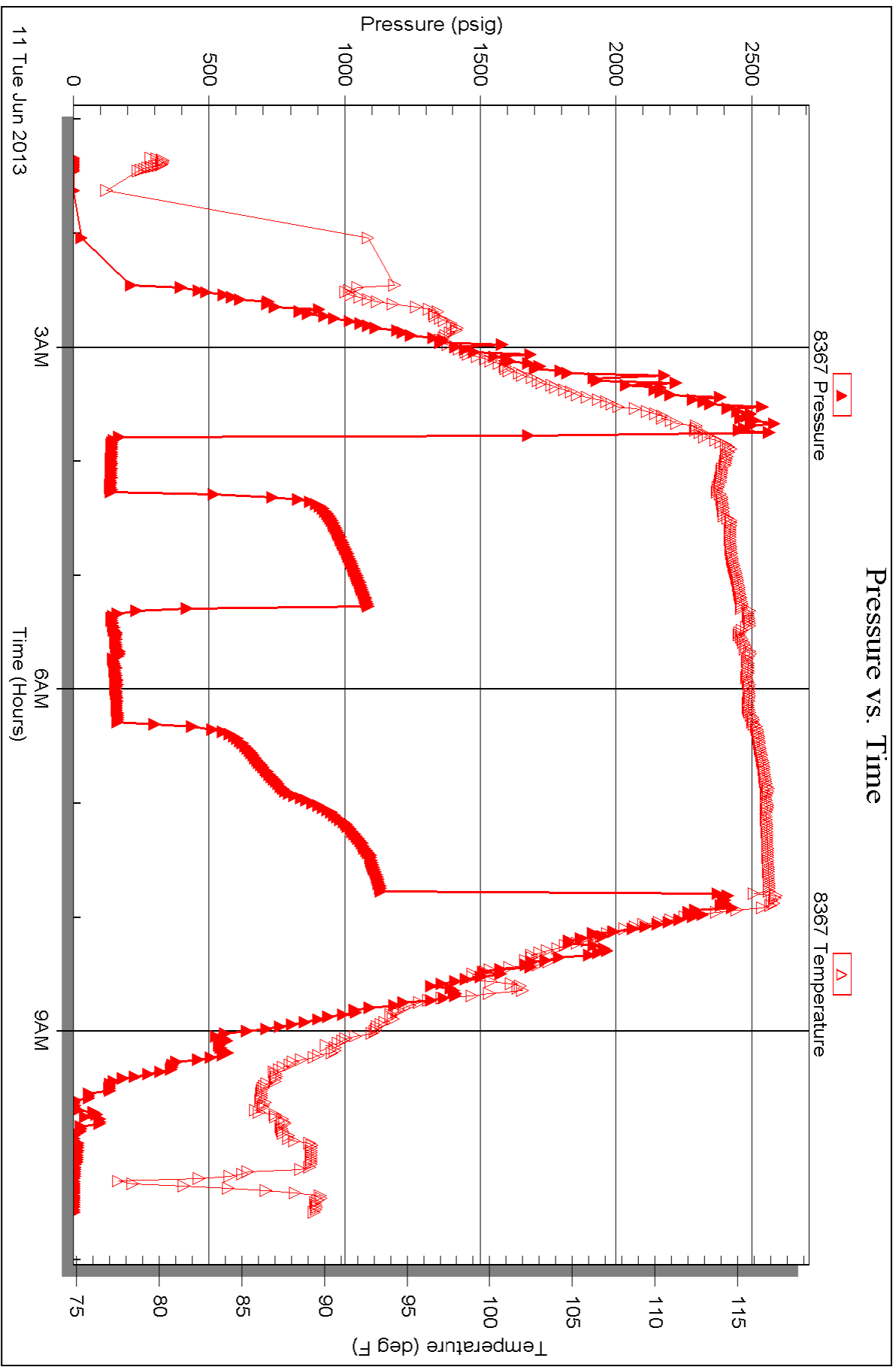
Printed: 2013.06.12 @ 16:04:28

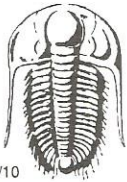
Serial #: 8367

Outside McCoy Petroleum Corporation

Hill A #3-23

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50980

Well Name & No. Hill A 3-23 Test No. 1 Date 06/11/13
 Company McCoy Petroleum Corp Elevation 2241 KB 2230 GL
 Address 8080 E Central Ste 300 Wichita, KS 67206
 Co. Rep / Geo. Dave Williams Rig Sterling 2
 Location: Sec. 23 Twp. 30S Rge. 19W Co. kiowa State KS

Interval Tested 5060 - 5120 Zone Tested Mississippi
 Anchor Length 60 Drill Pipe Run 4845 Mud Wt. 9.0
 Top Packer Depth 5055 Drill Collars Run 212 Vis 55
 Bottom Packer Depth 5060 Wt. Pipe Run 0 WL 10.8
 Total Depth 5120 Chlorides 7600 ppm System LCM 1

Blow Description IF: Strong Blow, BOB in 15 sec, GTS in 8 min, Caught sample + Gauged with Merla
ISF: NO Blow Back
FF: Strong Blow, BOB + GTS Immediate, Gauged with Merla
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4552</u>	<u>GTP</u>				
<u>72</u>	<u>GOCM</u>	<u>10%</u>	<u>2%</u>	<u>%</u>	<u>88%</u>
<u>248</u>	<u>GST WOCM</u>	<u>10%</u>	<u>30%</u>	<u>12%</u>	<u>48%</u>
<u>185</u>	<u>GST OOCM</u>	<u>15%</u>	<u>15%</u>	<u>20%</u>	<u>50%</u>

Rec Total 505 BHT 119 Gravity N/C API RW .06 @ 78 °F Chlorides 126,000 ppm

(A) Initial Hydrostatic <u>2612</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>00:00</u>
(B) First Initial Flow <u>159</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>01:20</u>
(C) First Final Flow <u>132</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:47</u>
(D) Initial Shut-In <u>1088</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:47</u>
(E) Second Initial Flow <u>142</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:35</u>
(F) Second Final Flow <u>160</u>	<input checked="" type="checkbox"/> Mileage <u>(110)</u> <u>341</u>	Comments <u>loaded tools 6/11 19:00</u>
(G) Final Shut-In <u>1134</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2452</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>2016</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2016</u>	

Approved By [Signature] Our Representative [Signature]

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



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

Well Name: HILL "A" #3-23
Location: SW - SW of Sec. 23 - T. 30 S. - R. 19 W.
License Number: A.P.I. #15-097-21,760-00-00
Spud Date: 06/04/2013
Surface Coordinates: 660' FSL & 660' FWL

Region: IOWA CO., KS.
Drilling Completed: 06/12/2013

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2230' **K.B. Elevation (ft):** 2241'
Logged Interval (ft): 632' **To:** 5203' **Total Depth (ft):** 5200'
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

Casing & Deviation

Spud at 8:30 pm on 05/04/13. Drilled 12-1/4" hole to 640'. Ran 13 joints of new 24# 8-5/8" surface casing, Tallied 621', set at 635' KB. Welded straps on bottom 3 and top 2 joints. Tacked collars on remainder. Cemented with 150 sks MDC; 3% CC; 1/2# CF, tailed with 125 sks Common ; 2% Gel; 3% CC; 1/2# CF. Plug down at 12:15 pm 06/05/13. Quality Well Service ticket #5905 Cement did circulate.

Deviation Survey's Taken= @ 640' = 3/4 degree; @ 4465' = 3/4 degree; @ 5120' = 3/4 degree.

DSTs

~~ DST # 1 ~ 5060'-5120'. Times: 30"- 60"- 60"- 90";

Blow: IF=Strong/ BOB/15 Sec. & GTS @ 8" (See Gauge Report). Strong No Blow Back During ISIP. FF= Strong Blow BOB/ Instant. No Blow Back During FSIP.

Recovery: 4552' GIP: 505' TF: 72' GOCM (10% G;2% O;88% M); 248' GWOCM (10%G; 30%O; 12%W;48% M); 185' GOWCM (15%G;15%O;20% W;50% M);

Pressures: IH= 2612#; FH= 2452#; IF=159-132; FF=142-160#;
ISIP = 1088#; FSIP = 1134#; T.= 119 degrees. F.; Salt Water= 126,000 Ppm Chl.; RW= .06 @ 78 degrees F.

Gas Gauge IF= @ 10"= 151.9 Mcf; @ 20"= 231.7 Mcf; @ 30"= 208.9 Mcf;
Gas Gauge FF= @ 10"= 197.5 Mcf; @ 20"= 186.1 Mcf; @ 30"= 174.7 Mcf; @ 40"= 157.6 Mcf; @ 50"= 151.9 Mcf;
@ 60"= 151.9 Mcf.


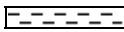


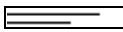
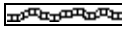




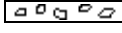






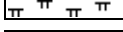
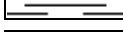
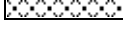
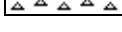


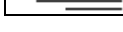
Comments

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






















































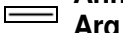



















Respectfully submitted,

David P. Williams, P.G

ROCK TYPES

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

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

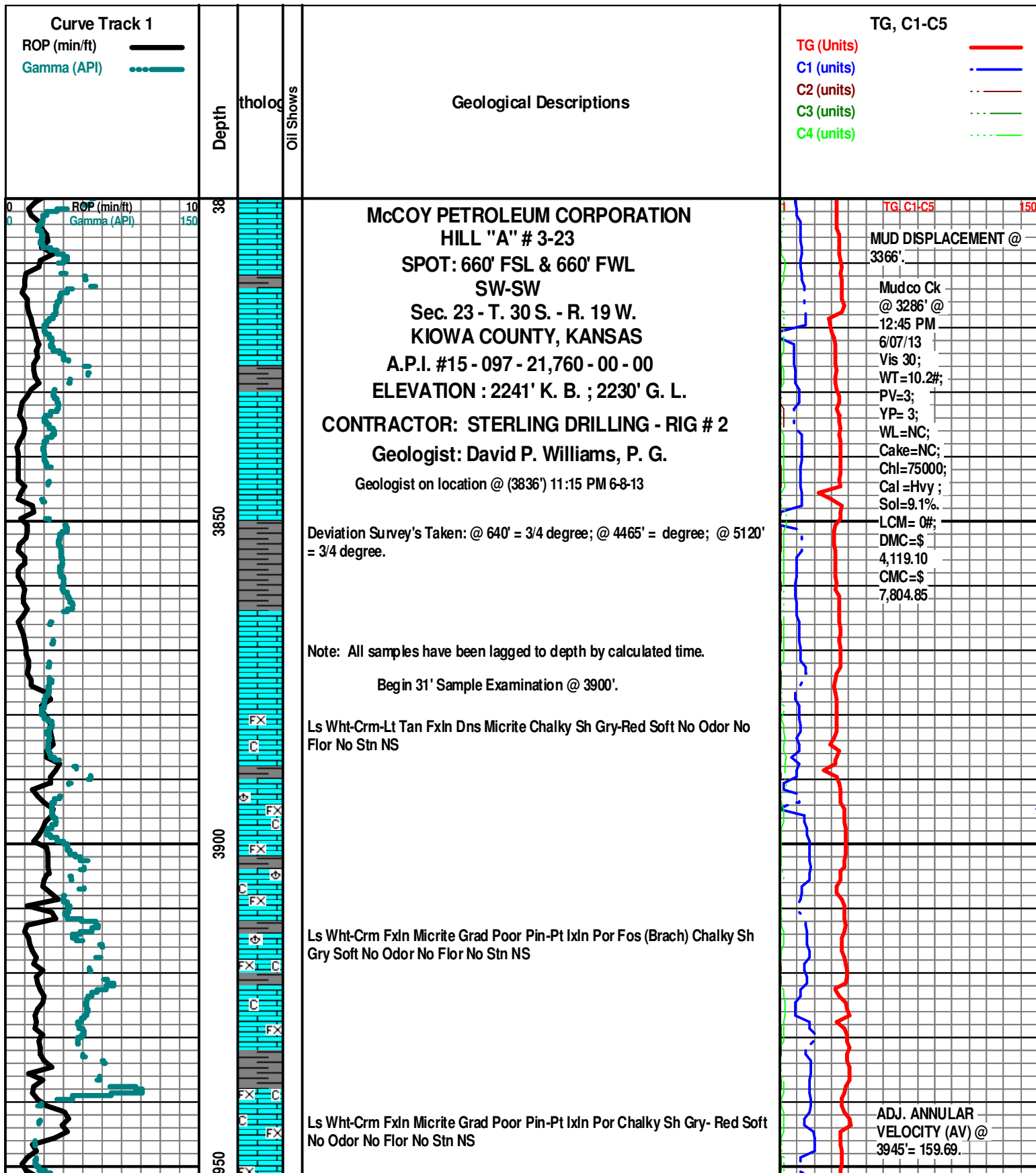
- [●] Even
- [◉] Spotted
- [○] Ques
- [◻] Dead

[■] Core

- EVENT**
- [◻] Rft
 - [▶] Sidewall

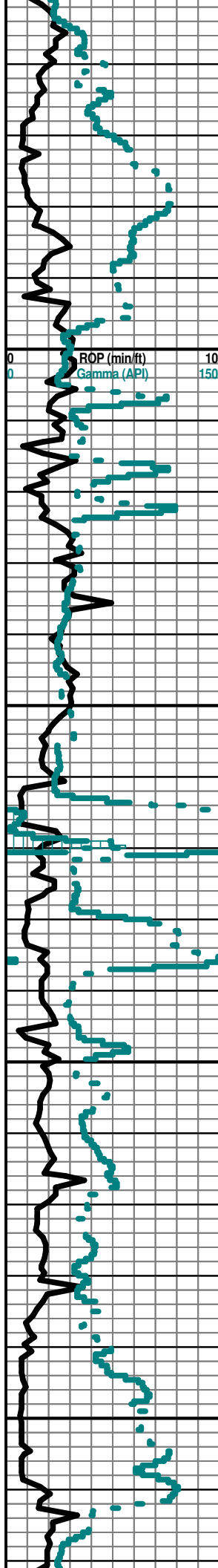
- OIL SHOW**
- [*] Gas show

- INTERVAL**
- [■] Dst
 - [■] Dst_alt



MUD DISPLACEMENT @ 3366'.
 Mudco Ck @ 3286' @ 12:45 PM 6/07/13
 Vis 30; WT=10.2#; PV=3; YP= 3; WL=NC; Cake=NC; Chl=75000; Cal =Hvy ; Sol=9.1%.
 LCM= 0#; DMC=\$ 4,119.10 CMC=\$ 7,804.85

ADJ. ANNULAR VELOCITY (AV) @ 3945' = 159.69.



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

Ls Wht-Crm FxIn Micrite Grad Poor-Fair IxIn Vug Por Chalky Sh Char-Gry-
Red Soft-Fissil No Odor No Flor No Stn NS

LECOMPTON B 4024' (- 1783)

Ls Wht FxIn Micrite Grad Poorr IxIn Pin-Pt Por (w/Pyr Inclus) Fos (Crin)
Chalky Sh Char-Gry- Red Fissil-Soft No Odor No Flor No Stn NS

QUEEN HILL SHALE 4064' (-1823)

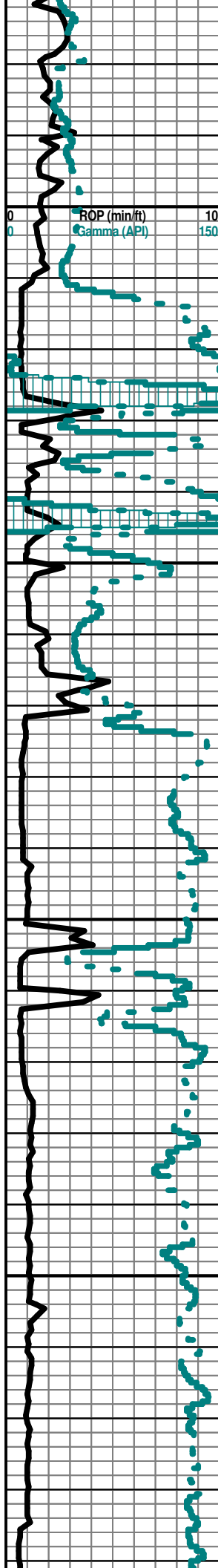
Sh Blk Carb- Char-Gry-Aqua Fissil-Soft Ls Wht FxIn Micrite Grad Poor IxIn
Pin-Pt Por Cht Amber Fos (Crin) Pyr Mass Chalky No Odor No Flor No Stn NS

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

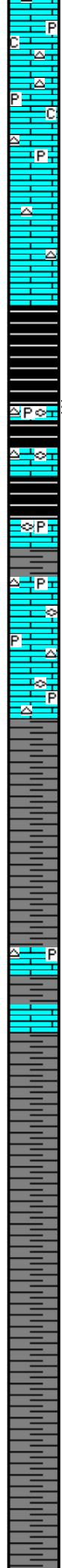
Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt Por Pyr Mass Fos (Fuss)
Chalky Sh Blk Carb-Char-Gry Fissil-Soft No Odor No Flor No Stn NS

TG C1-C5 150

Mudco Ck
@ 4205' @
11:10 AM
6/08/13 Vis
50;
WT=9.0#;
PV=16;
YP= 19;



4200
4250
4300
4350



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

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

HEEBNER 4238' (-1997)

TORONTO 4250' (- 2009)

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 4271' (-2030)

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

Begin 10' Wet & Dry Sample Examination @ 4400'.

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

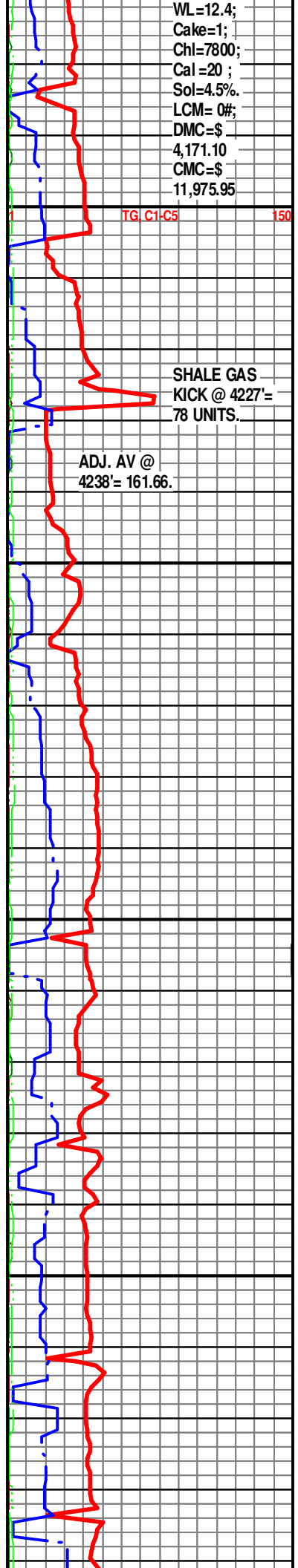
Sh Char-Gry-Grn Fissil-Soft Ls Wht-Crm Fxln Micrite Grad Poor Ixln Pin-Pt
Por Cht Wht-Gry Translu-Op Shp Vit Qtz Ss Gry V-FGrn Well Sort Carb Poor
IGran Por Dns-Friable (w/Pyr Inclus) Chalky No Odor No Flor No Stn NS

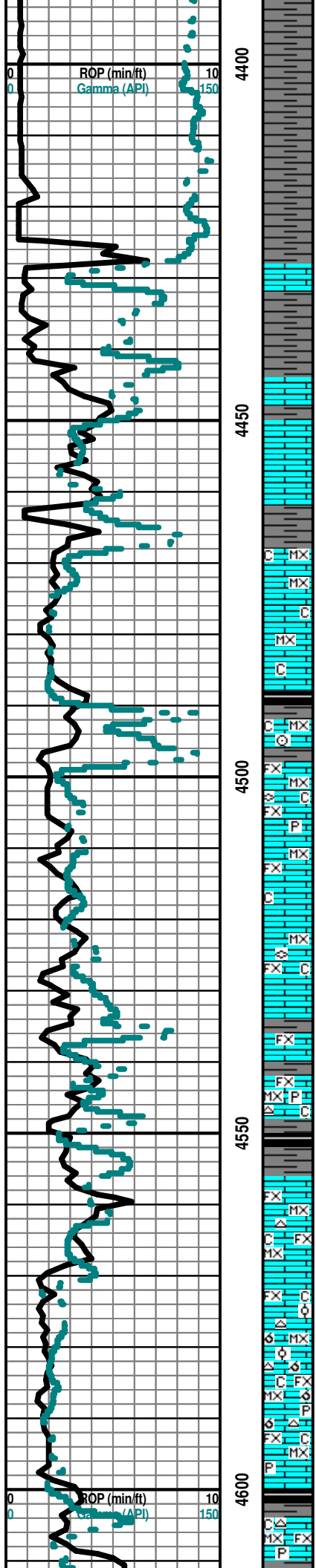
WL=12.4;
Cake=1;
Chl=7800;
Cal =20 ;
Sol=4.5%
LCM= 0#;
DMC=\$
4,171.10
CMC=\$
11,975.95

TG C1-C5 150

SHALE GAS
KICK @ 4227'=
78 UNITS.

ADJ. AV @
4238' = 161.66.





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

TG C1-C5 150

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

IATAN (BROWN LIME) 4428' (- 2187)

NO SAMPLE CAUGHT

LANSING 4444' (- 2203)

NO SAMPLE CAUGHT

NO SAMPLE CAUGHT

LANSING "B" 4468' (- 2227)

BIT TRIP @ 4465'

Poor Spl Trip Debris Abd Sh-Char-Gry-Grn Soft-Fissil Ls Wht -Crm - Tan
 Microxln No Vis Por Chalky No Odor No Stn No Flor NS

Poor Spl Trip Debris Abd Sh-Char-Gry-Grn Soft-Fissil Ls Wht - Crm - Tan
 Microxln No Vis Por Chalky No Odor No Stn No Flor NS

Sh Gry-Char-Grn-Blk Carb Soft-Fissil Ls Wht-Crm-Tan-Gry Fxln - Microxln
 Dns Micrite Grad Poor Ixln Por Fos (Crim) Chalky No Odor No Flor No Stn
 NS

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

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

Ls Crm-Tan-Gry Fxln-Microxln Dns Micrite Grad Poor Ixln Por Fos (Fuss)
 Chalky Sh Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn NS

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

Ls Wht-Crm-Tan Fxln-Microxln Dns Micrite Grad Poor Ixln Por Cht
 Amber-Gry Translu Shp Vit Pyr Mass Chalky Sh Gry-Char-Grn Soft-Fissil No
 Odor No Flor No Stn NS

ADJ. AV @
 4547' = 139.02.

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

LANSING "F" 4556' (- 2315)

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

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

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

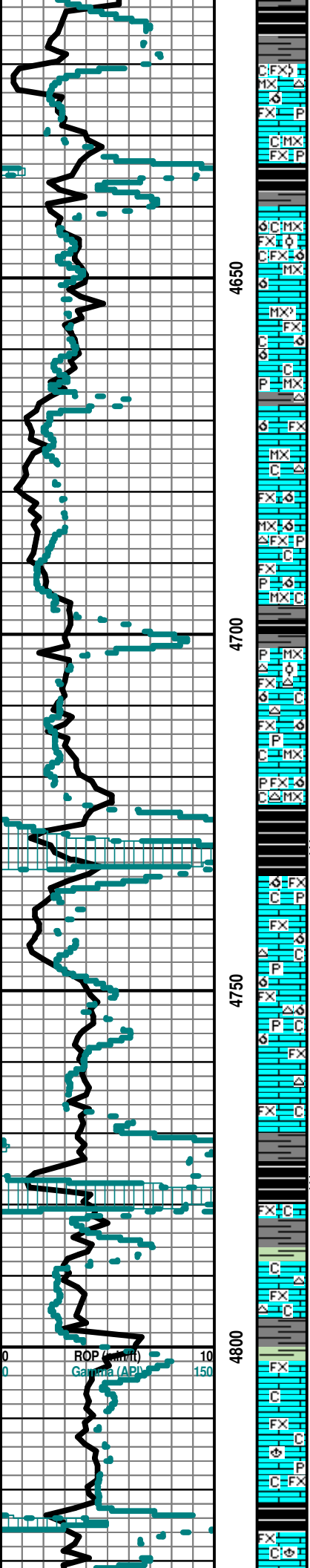
Ls Wht-Crm-Lt Tan Microxln-Fxln Micritic Grad Tr Poor OOM Por AA Cht Lt Tan Op Shp Vit
 Pyr Mass Chalky Sh Char- Gry- Grn- Blk Carb- Aqua Fissil No Odor No Stn No Flor NS

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

TG C1-C5 150

? SHALE GAS KICK
 = 79 UNITS

Ls Wht-Crm-Lt Tan Microxln-Fxln Micritic No Vis Por Cht Lt Tan Op Shp Vit Pyr Mass Chalky



Sh Char-Gry-Grn-Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

KANSAS CITY "H" DRUM 4621' (-2370)

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

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

Ls Wht-Crm-Lt Tan Microxl-n-Fxl n 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 Stn No Flor NS

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

Ls Wht-Crm-Lt Tan Microxl-n-Fxl n 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

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

Sh Char-Gry (w/Pry Inklus)-Aqua Fissil Ls Wht-Crm-Lt Tan Microxl-n-Fxl n Mostly Micrite Grad Fair OOM Por Poor- Fair InterOOM Por Poor-Fair Leaching Poor Develop Cht Wht Op Shp Vit Chalky No Odor No Stn No Flor NS

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

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

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

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

KANSAS CITY "J" DENNNIS 4734' (-2493)

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

Ls Lt Tan-Wht VFxl n Mostly Micrite Poor OOM Por Grad Poor OOM Por Poor InterOOM Por Poor Leaching Poor Develop Grad Pin-Pt Ixln Por Cht Gry Op Shp Vit Chalky Sh Blk Carb (w/Pry Inklus) Char-Gry (w/Pry Inklus) Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht VFxl n Mostly Micrite Poor OOM Por Grad Poor OOM Por Poor InterOOM Por Poor Leaching Poor Develop Grad Pin-Pt Ixln Por Cht Gry Op Shp Vit Chalky Sh Blk Carb (w/Pry Inklus) Char-Gry (w/Pry Inklus) Fissil No Odor No Stn No Flor NS

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

STARK SHALE 4776' (-2535)

KANSAS CITY "K" SWOPE 4780' (-2539)

Sh Blk Carb-Char-Gry Fissil Ls Lt Tan-Wht Fxl n Mostly Micrite Grad Fair Pin-Pt Ixln Por (2 Pcs) No Vis Por Chalky No Odor No Stn No Flor NS

Ls Lt Tan-Wht Fxl n Mostly Micrite Grad Fair Pin-Pt Ixln Por Inc No Vis Por Chalky Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Wht Fxl n 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

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

Ls Lt Tan-Wht-Gry Fxl n Mostly Micrite Dns Grad Fair Pin-Pt Ixln Por Chalk Fos (Brach) Pyr Mass Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

HUSHPUCKNEY 4824' (-2583)

Ls Wht-Gry-Lt Tan Fxl n Mostly Micrite Dns Grad Poor Pin-Pt Ixln Por (3 Pcs) Chalk Fos (Brach) Sh Char-Gry-Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

ADJ. AV @ 4616' = 138.96.

@ 4624' Change Out
Extractor Filter & Gas
Test=115 Units.

Mudco Ck @
4739' @ 2:10
pM 6/09/13
Vis 61;
WT=9.4#;
PV=19;
YP= 21;
WL=10.8;
Cake=1;
Chl=7600;
Cal =20 ;
Sol=7.4%
LCM= 1#;
DMC=\$
574.25
CMC=\$
12,550.20

SHALE GAS
KICK = 106
UNITS

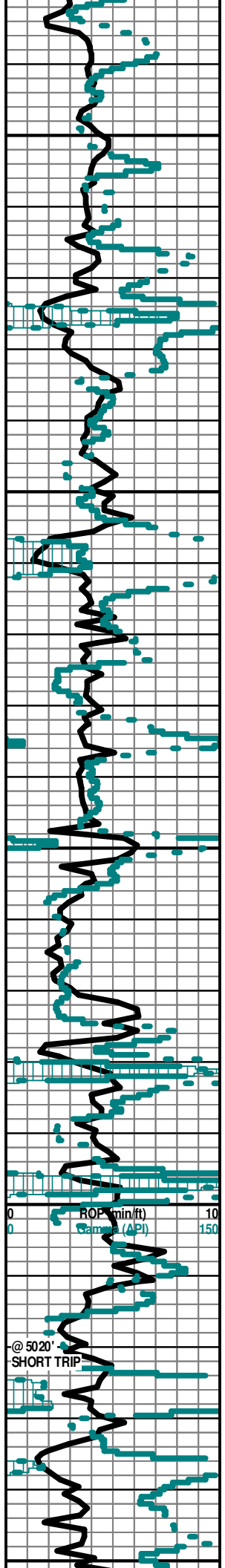
SHALE GAS
KICK = 92
UNITS

@ 4760' Hole Depth
Rezzero TookeDAQ in
Geotrailer. Bkgd Gas
Set = 12 Units.

ADJ. AV @ 4761' HOLE
DEPTH' = 133.90.

SHALE GAS KICK =
= 106 UNITS.

TG C1-C5 150



4850

4900

4950

5000

5050

Sh Blk Carb-Char-Gry Fissil Ls Wht-Gry-Lt Tan Fxln Mostly Micrite Dns Grad Poor Pin-Pt Ixln Por (3 Pcs) Chalk Fos (Brach) No Odor No Stn No Flor NS

Ls Wht-Gry-Lt Tan Fxln Mostly Micrite Dns Grad Poor Pin-Pt Ixln Por Chalk Fos (Brach) Chalk Sh Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Lt Tan Fxln Mostly Micrite Dns Grad Poor Pin-Pt Ixln Por Chalk Fos (Brach) Chalk Sh Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

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

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

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

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

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

MARMATON 4912' (- 2671)

Ls Wht Microxln-Fxln Dns Micrite Grad Poor OOM Por Grad Poor OOM Por Poor InterOOM Por Poor Leaching Poor Develop Por Cht Wht Op Shp Vit Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht Microxln-Fxln Dns Micrite Chal Abd Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht Microxln-Fxln Dns Micrite No Vis Por Chalk Abd Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht Microxln-Fxln Dns Micrite (wTr Calc) No Vis Por Chalk Abd Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

PAWNEE 4952' (- 2711)

Ls Wht Microxln-Fxln Dns Micrite No Vis Por Grad Poor Pin-Pt Ixln Por Barren Chalk V Abd Sh Blk Carb-Char-Gry Fissil AA No Odor No Stn No Flor NS

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

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

FORT SCOTT 4979' (- 2738)

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

CHEROKEE SHALE 4996' (- 2755)

Sh Blk Carb-Char Fissil Ls Wht-Lt Tan Microxln-Fxln Dns Micrite Cht Wht-Crm Op Shp Vit Chalky No Odor No Stn No Flor NS
 Ls Wht-Lt Tan Microxln-Fxln Dns Micrite Cht Wht-Crm Op Shp Vit Chalky Sh Blk Carb-Char Fissil No Odor No Stn No Flor NS

30" CFS @ 5020' Ls Wht-Lt Tan Microxln-Fxln Dns Micrite Cht Wht-Crm Op Shp Vit Chalky Sh Blk Carb-Char Fissil No Odor No Stn No Flor NS

60" CFS @ 5020' Ls Wht-Lt Tan Microxln-Fxln Dns Micrite Cht Wht-Crm Op Shp Vit 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 Microxln-Fxln Dns Micrite (w/Pyr Includ) Grad Poor Ixln Pin-Pt Por Barren No Odor No Stn No Flor NS

Sh Char-Gry-Drab Grn-Aqua-Blk Carb Fissil Ls Wht-Lt Tan Microxln-Fxln Dns Micrite Grad Poor Ixln Pin-Pt Por Barren Fos (Fuss) No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Drab Grn-Aqua Fissil Ls Wht-Lt Tan Microxln-Fxln Dns Micrite Grad Poor Ixln Pin-Pt Por Barren Cht Wht-Gry Op Shp Vit No Odor No Stn No Flor NS

Scale Change
TG C1:C5 300

~ DST # 1 ~
 5060'-5120'. Times:
 30"- 60"- 60"- 90";
 Blow: IF=Strong/
 BOB/15 Sec. & GTS
 @ 8" (See Gauge
 Report). Strong No
 Blow Back During
 ISIP.
 FF= Strong Blow
 BOB/Instant. No
 Blow Back During
 FSIP.

Recovery:4552' GIP: 505' TF:
 72' GOCM (10% G; 2% O; 88%
 M); 248' GWOCM (10% G; 30%
 O; 12% W; 48% M); 185'
 GOWCM (15% G; 15% O; 20%
 W; 50% M).

SH GAS
KICK= 100
UNITS.

Pressures:C5 300
 IH= 2612#;
 FH= 2452#;
 IF = 159-132;
 FF = 142-160#;
 ISIP = 1088#;
 FSIP = 1134#
 T.= 119 degrees. F.
 WTR= 126,000 Ppm Chl
 RW=.06 @ 78 degrees F.

Gas Gauge IF=
 @ 10" = 151.9 Mcf;;
 @ 20" = 231.7 Mcf;
 @ 30" = 208.9 Mcf;

Gas Gauge FF=
 @ 10" = 197.5 Mcf;
 @ 20" = 186.1 Mcf;
 @ 30" = 174.7 Mcf;
 @ 40" = 157.6 Mcf;
 @ 50" = 151.9 Mcf;
 @ 60" = 151.9 Mcf;

ROP (min/ft) 10
 (API) 150
 @ 5020'
 SHORT TRIP

MISSISSIPPIAN 5062' (- 2821)

Ls Wht-Lt Tan Microxl-n-Fxl n Micritic Grad Poor-Fair Pin-Pt Ixln Por (w/? SG) Cht Op Shp Vit Chalky Sh Char-Gry Fissil ? V Faint Odor Sli Flor No Stn ? SG
 Ls Wht-Lt Tan Microxl-n-Fxl n Micritic Grad Poor Pin-Pt Ixln Por Cht Op Shp Vit Chalky Sh Char-Gry Fissil ? No Odor ? Sli Flor No Stn ? NS
 Ls Wht-Lt Tan Microxl-n-Fxl n Micritic Grad Poor-Fair Pin-Pt Ixln Por (w/? SG) Cht Op Shp Vit Fos (Crin) Chalky Sh Char-Gry Fissil ? V Faint Odor Sli Flor No Stn ? SG

30" CFS @ 5110' Ls Wht-Lt Tan Microxl-n-Fxl n Micritic Grad Poor-Fair Pin-Pt Ixln Por (w/? SG & VSSFO-Lt Brn & Does Flor (Lt Grn)) Grad Poor OOM Por Poor InterOOM Por Poor Leaching Poor Develop Cht Wht Op Shp Vit Fos (Brach) Chalky Sh Char-Gry Fissil Faint Odor Poor Flor Sli Brn Stn ? SG & SSO

60" CFS @ 5110' Ls/Dolo Wht-Lt Tan-Tan Fxl n Micritic Grad Poor-Fair Pin-Pt Ixln Por (w/SG & SFO-Lt Brn & Does Flor (Lt Grn)) Grad Poor OOM/OOL Por Poor InterOOM/OOL Por Poor-Fair Leaching Poor-Fair Develop Cht Wht Op Shp Vit Fos (Brach) Chalky Sh Char-Gry-Aqua-Olive Fissil Good-Strong Odor Med-Good Flor Sli Brn Stn SG & SO

75" CFS @ 5110' Dolo/Ls Wht-Lt Tan-Tan Fxl n Micritic Grad M-G Pin-Pt Ixln Por (w/GSG & GSFO-Lt Brn Droplets (When Pressed On Under Heat in Wtr) & Both Gas & Oil Do Flor (Lt Grn)) Chalky Sh Char-Gry-Aqua-Olive Fissil G -Strg Odor M-G Flor G-Brn Stn (4 Pcs) GSG & GSO

60" CFS @ 5120' Dolo/Ls Wht-Lt Tan-Tan Fxl n Micritic Grad M-G Pin-Pt Ixln Por (w/Tr Glacu Inklus & GSG & GSFO) Cht Amber-Wht Trip (w/Tr Gillsonitic Stn Drk Blk Stn) Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil G-Strg Odor M-G Flor G-Brn Stn GSG & GSO

75" CFS @ 5120' Dolo/Ls Wht-Lt Tan-Tan Fxl n AA (w/Tr Glacu Inklus) Cht Amber-Wht Trip (w/Tr Gillsonitic Stn Drk Blk Stn) Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil Good ? Dec Odor M-G Flor G-Brn Stn M-GSG & M-GSO

MISS. WARSAW 5126' (- 2885)

60" CFS @ 5135' Dolo Tan-Wht Fxl n Poor Pin-Pt Ixln Por (w/Scatt (Lt Grn) Flor w/SSO Under Heat in Wtr) Ls AA Cht AA (Tr Only) Sh AA ? Faint Odor Sli Flor Sli Lt Brn Stn VSSO

75" CFS @ 5135' Dolo Tan-Wht Fxl n Poor Pin-Pt Ixln Por (w/Scatt (Lt Grn) Flor w/SSO Under Heat in Wtr) Ls AA Cht AA (Tr Only) Sh AA ? Faint Odor Sli Flor Sli Lt Brn Stn VSSO

Dolo/Ls Tan-Wht-Lt Tan Fxl n Poor Pin-Pt Ixln Por (w/Tr Glacu Inklus & Gillsonitic Stn Drk Blk Stn AA) Grad Dns Micritic Chalky Pyr Mass Sh Char-Gry-Aqua Fissil ? V Faint Odor Poor Flor Dec Tr ? Brn Stn ? VSSO to NS

Dolo Tan-Wht-Lt Tan Fxl n Poor Pin-Pt Ixln Por (w/Tr Glacu Inklus & Gillsonitic Stn Drk Blk Stn AA) Grad Dns Micritic Chalky Pyr Mass Sh Char -Gry -Aqua Fissil No Odor No Flor No Stn NS

Dolo Tan-Wht-Lt Tan Fxl n Poor Pin-Pt Ixln Por (w/Tr Glacu Inklus & Gillsonitic Stn Drk Blk Stn AA) Grad Dns Micritic Chalky Pyr Mass Sh Char -Gry -Aqua Fissil No Odor No Flor No Stn NS

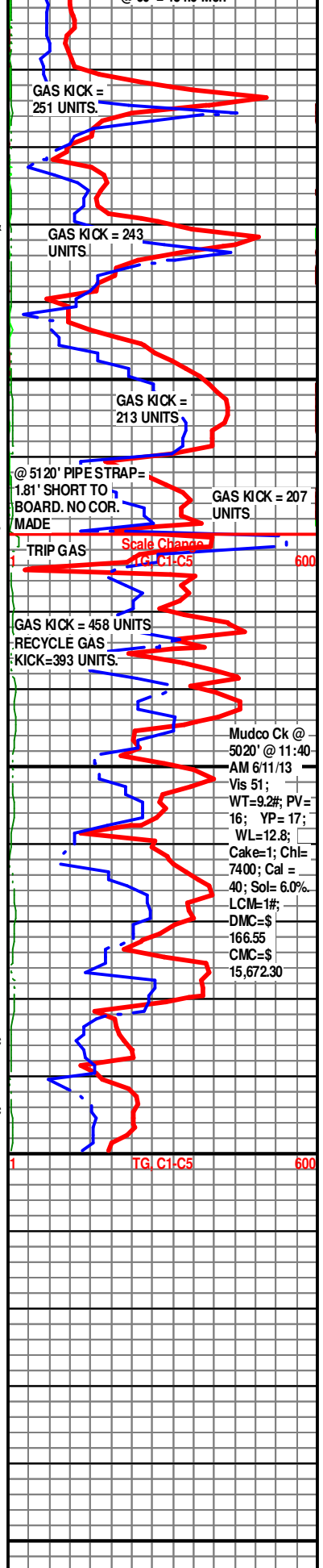
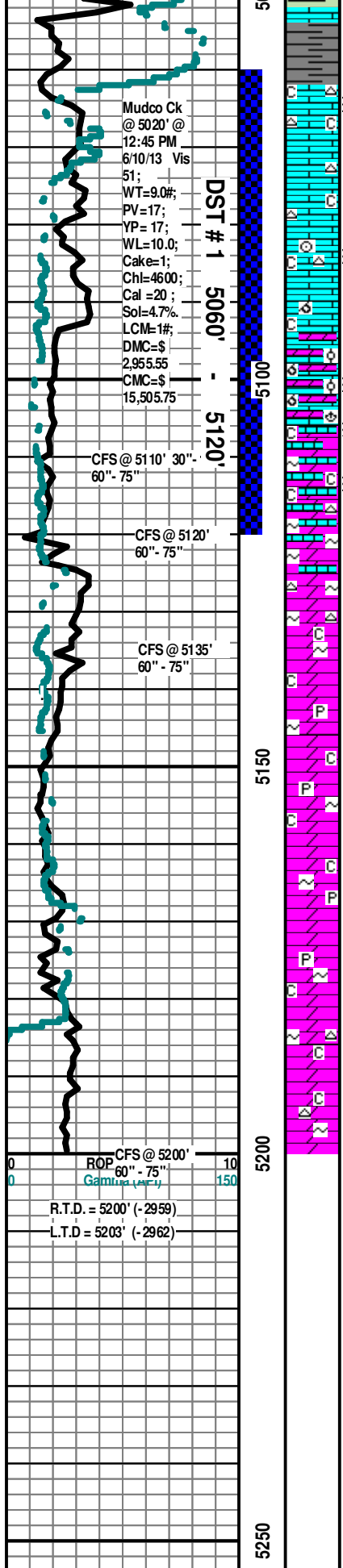
Dolo Tan-Wht-Lt Tan Fxl n Poor Pin-Pt Ixln Por (w/Tr Glacu Inklus & Gillsonitic Stn Drk Blk Stn AA) Grad Dns Micritic Chalky Pyr Mass Sh Char -Gry -Aqua Fissil No Odor No Flor No Stn NS

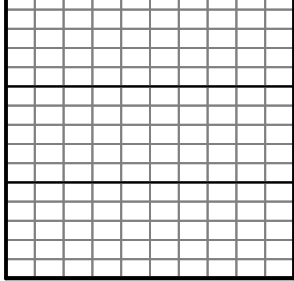
60" CFS @ 5200' Dolo Tan-Wht-Lt Tan Fxl n Poor Pin-Pt Ixln Por (w/Tr Glacu Inklus & Gillsonitic Stn Drk Blk Stn AA) Grad Dns Micritic Cht Wht Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil No Odor No Flor No Stn NS

75" CFS @ 5200' Dolo Tan-Wht-Lt Tan Fxl n Poor Pin-Pt Ixln Por (w/Tr Glacu Inklus & Gillsonitic Stn Drk Blk Stn AA) Grad Dns Micritic Cht Wht Op Shp Vit Chalky Sh Char-Gry-Aqua Fissil No Odor No Flor No Stn NS

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

Geologist Left Location at: 8:00 AM on 06/12/2013





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