



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1208606
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: _____

1208606

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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SCHWAB "A" #1-7 ACO-1 Supplemental Information

API#: 15-119-21362

SAMPLE TOPS

McCoy Petroleum Corp.
Schwab "A" #1-7
E2 NE SE
1980'FSL & 330'FEL
Sec 7-30s-30w
KB: 2825'

	Depth	Datum
Heebner	4206	-1381
Toronto	4236	-1411
Lansing	4282	-1457
Lansing G	4563	-1738
Stark	4725	-1900
Swope Pors.	4733	-1918
Hushpuckney	4779	-1954
Hertha Pors.	4796	-1971
Marmaton	4870	-2045
Pawnee	4964	-2139
Ft Scott	5000	-2175
Cherokee	5018	-2183
Atoka	5215	-2390
Morrow Sh.	5258	-2433
Chester	5278	-2453
St Genevieve	5480	-2647
St Louis	DNP	
RTD	5550	-2725

LOG TOPS

McCoy Petroleum Corp.
Schwab "A" #1-7
E2 NE SE
1980'FSL & 330'FEL
Sec 7-30s-30w
KB: 2825'

	Depth	Datum
Heebner	4206	-1381
Toronto	4225	-1400
Lansing	4282	-1457
Lansing G	4562	-1737
Stark	4722	-1897
Swope Pors.	4732	-1907
Hushpuckney	4778	-1953
Hertha Pors.	4796	-1971
Marmaton	4864	-2039
Pawnee	4962	-2137
Ft Scott	4998	-2173
Cherokee	5008	-2183
Atoka	5214	-2389
Morrow Sh.	5257	-2432
Chester	5278	-2453
St Genevieve	5470	-2645
St Louis	DNP	
LTD	5549	-2725



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

Well Name: SCHWAB "A" #1-7
Location: E/2- NE - SE of Sec. 7 - T. 30 S. - R. 30 W.
License Number: A.P.I. # 15 - 119 - 21,362 - 00 - 00
Spud Date: 03/06/2014
Surface Coordinates: SPOT: 1980' FSL & 330' FEL

Region: MEADE CO., KS.
Drilling Completed: 03/14/2014

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2814' **K.B. Elevation (ft):** 2825'
Logged Interval (ft): SURFACE (To: 5549' **Total Depth (ft):** 5550'
Formation: MISSISSIPPIAN "STE. GEN"
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL. & MUD DISPLACEMENT @ 2984'.

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 (DWE)
Address: 312 N. BROADVIEW STREET
WICHITA, KANSAS 67208

CASING & DEVIATION

Surface Casing: Spud at 10:15 pm on 3/6/14. Drilled 12-1/4" to 1833'. Ran 44 joints of new 24#, 8-5/8" casing. Tallied 1811'. Set at 1829' KB. Welded straps on shoe, bottom 3 joints and top 2 joints. Tacked collars on the remainder. (5) Centralizers on joints 1-3-5-7-27. Float insert in top of 1st joint. Cemented with 650 sks 65/35 POZ 3% CC, 1/4# FS. Tailed with 200 sks Class A; 3% CC; 1/4# FS. Cement did circulate. Plug down at 2:45 pm on 3/8/14. Allied Cementing ticket #52529. Basket on Joint #28 at 699' KB.

Deviation Survey's Taken: @ 1830' = 3/4 degree; @ 5330' = 3/4 degree; @ 5550' = 1 degree.

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

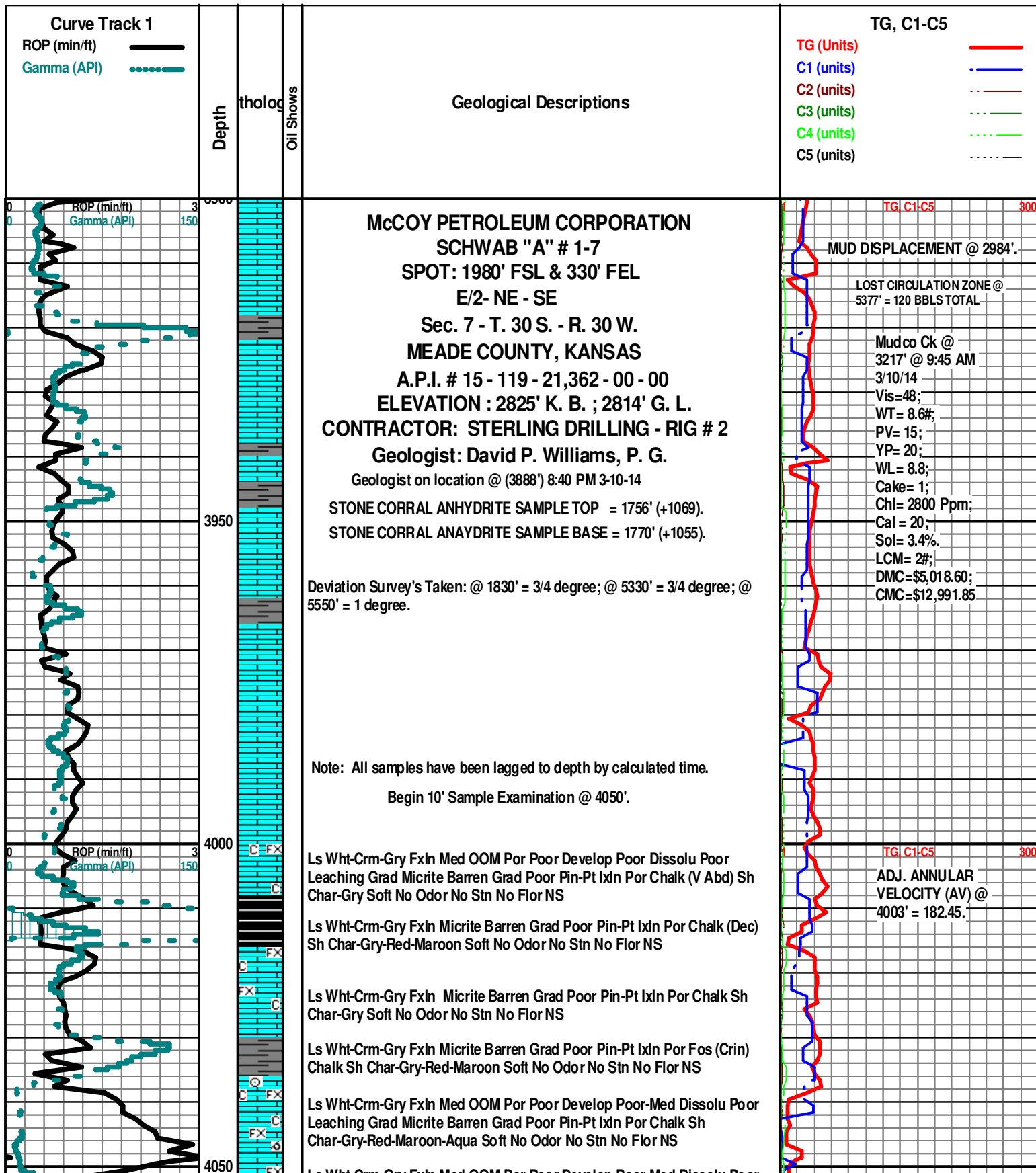
- [●] Even
- [◉] Spotted
- [○] Ques
- [◻] Dead

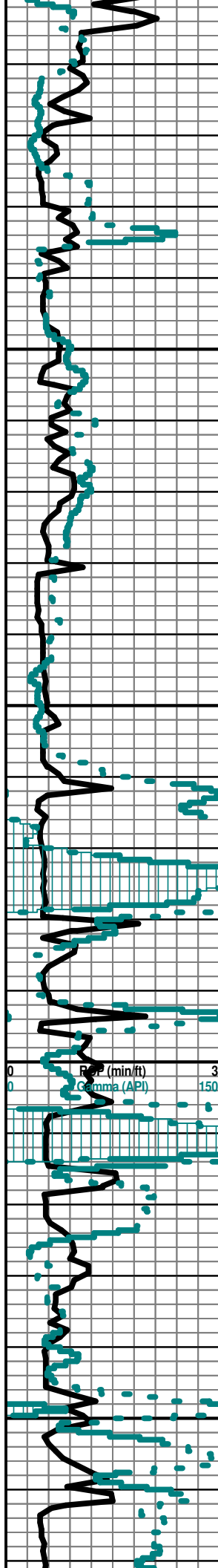
[■] Core

- EVENT**
- [▶] Rft
 - [▶] Sidewall

- OIL SHOW**
- [*] Gas show

- INTERVAL**
- [■] Dst
 - [■] Dst_alt





Ls Wht-Crm-Gry Fxln Por Med Dissolu Poor Leaching Grad Micrite Barren Grad Poor Pin-Pt Ixln Por Chalk Sh Char-Gry-Red-Maroon-Aqua Soft No Odor No Stn No Flor NS

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

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Chalk Sh Char-Gry-Red-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Fair OOM Por Poor Develop Poor Dissolu Poor Leaching Chalk Sh Char-Gry-Red-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor OOM Por Chalk Sh Char-Gry-Tr Red (Dec) Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Poor OOM Por Poor Dissolu Poor Leaching Chalk Sh Char-Gry-Drk Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Poor OOM Por Poor Dissolu Poor Leaching Cht Wht (Interbedded in Ls) Op Vit Shp Chalk Sh Char-Gry-Drk Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor OOM Por Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor OOM Por AA Dec Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Poor OOM Por Poor Dissolu Poor Leaching Cht Wht (Interbedded in Ls) Op Vit Shp Chalk Sh Char-Gry-Drk Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor OOM Por AA Dec Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Maroon Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Maroon Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Chalk Fos (Crin) Sh Blk Carb-Char-Gry-Maroon Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Chalk Sh Blk Carb-Char-Gry-Maroon Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Chalk Sh Blk Carb-Char-Gry-Maroon Fissil No Odor No Stn No Flor NS

HEEBNER 4206' (- 1381)

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

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Chalk No Odor No Stn No Flor NS

TORONTO 4225' (- 1400)

Ls Wht-Crm-Tan Fxln Dns Micrite Grad Fair Pin-Pt Ixln Por Cht Wht-Tan Op Shp Vit Chalk No Odor No Stn No Flor NS

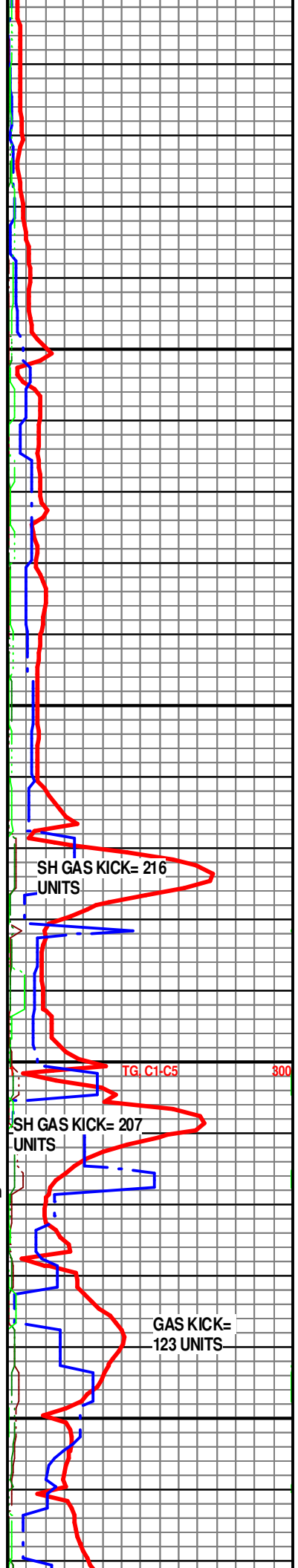
Ls Wht-Crm-Tan Fxln Dns Micrite (w/Pyr Includ) Grad Fair Pin-Pt Ixln Por Cht Wht-Tan Op Shp Vit Chalk No Odor No Stn No Flor NS

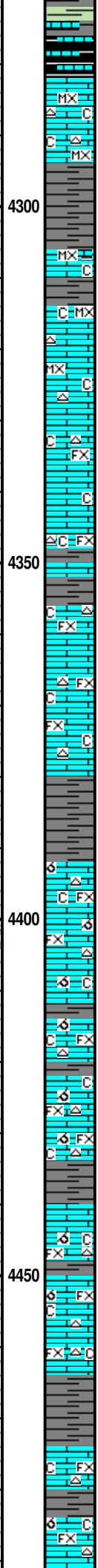
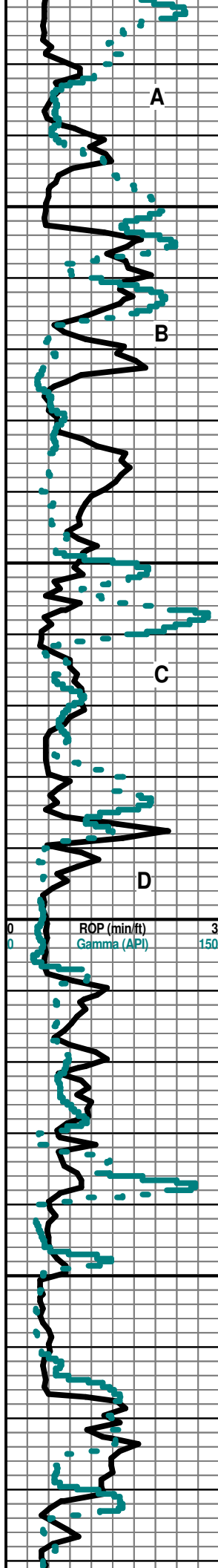
Ls Wht-Crm-Tan Fxln Dns Micrite Grad Fair Pin-Pt Ixln Por Chalk No Odor No Stn No Flor NS

DOUGLAS 4268' (- 1441)

Sh Char-Gry-Maroon Soft-Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS

Sh Char-Gry Soft-Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS





LANSING 4282' (- 1457)

Ls Wht-Crm-Tan-Gry MicroIn Dns Micritic Barren Grad Poor Pin-Pt IxIn Por Barren Cht Wht Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry MicroIn Dns Micritic Barren Grad Poor Pin-Pt IxIn Por Barren Cht Wht-Lt Tan Op Shp Vit Chalky Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry MicroIn Dns Micritic Barren Grad Poor Pin-Pt IxIn Por Barren Cht Wht-Lt Tan Op Shp Vit Chalky Sh Char- Gry- Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm MicroIn Micrite Barren Grad Poor Pin-Pt IxIn Por Cht Wht-Tan Op Shp Vit Chalk Sh Char-Gry Soft-Fissil Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Cht Wht-Tan Op Shp Vit Chalk Sh Char-Gry Fissil Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Cht Wht-Tan Op Shp Vit Chalk Sh Char-Gry Fissil Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry MicroIn Micrite Barren Cht Wht-Tan Op Shp Vit Chalk Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Micrite Barren Cht Wht-Tan Translu-Op Shp Vit Chalk Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Micrite Barren Cht Wht-Gry-Tan Translu-Op Shp Vit Chalk Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Micrite Barren Cht Wht-Gry-Tan Translu-Op Shp Vit Chalk Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por (Tr) Barren Chalk Cht Wht-Tan Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Cht Wht-Tan-Gry Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Cht Wht-Tan-Gry Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Cht Wht-Tan -Gry Translu-Op Shp Vit Fos (Crin) Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

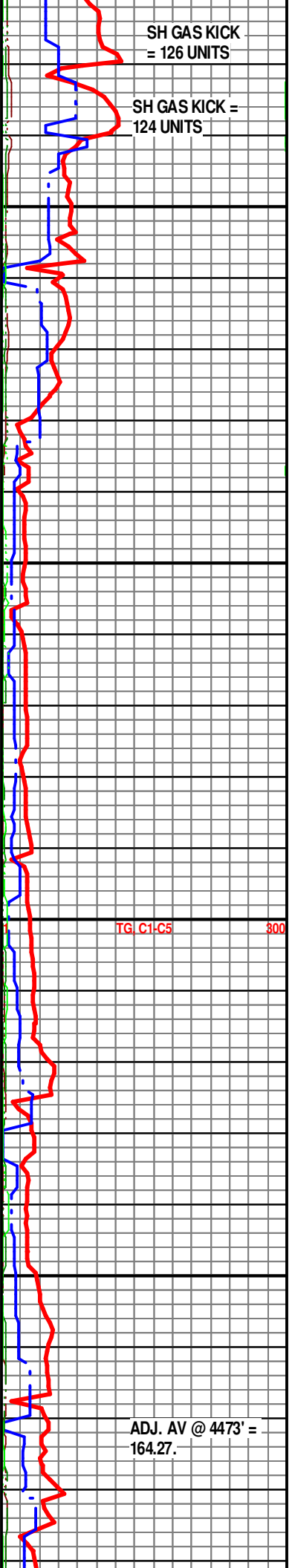
Ls Wht-Crm-Tan FxIn Fair-Med OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan-Gry Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

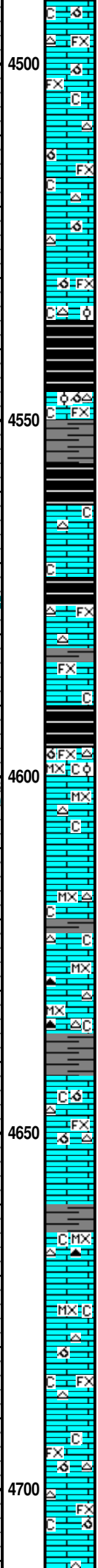
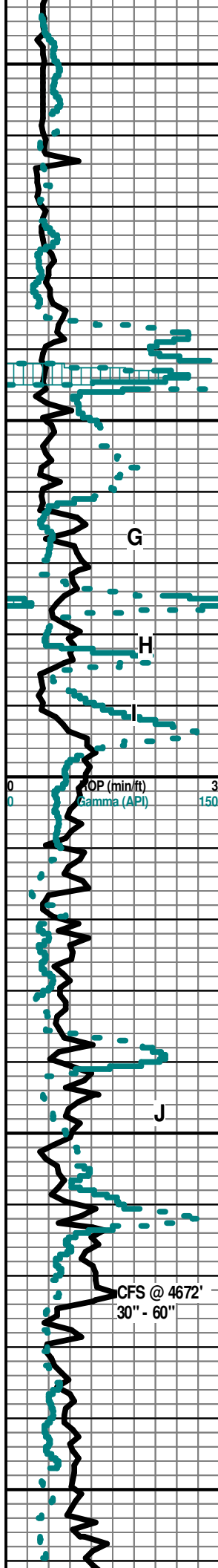
Ls Wht-Crm-Tan FxIn Fair-Med OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Blk Carb-Char- Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por Barren Cht Wht-Tan-Gry Translu-Op Shp Vit Chalky Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por Barren Cht Wht-Tan-Gry Translu-Op Shp Vit Chalky Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Cht Wht-Tan-Gry Translu-Op Shp Vit Fos (Crin) Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS





Ls Wht-Crm-Tan FxIn Med-Good OOM Por Med-Good InterOOM Vug Por
Med-Good Dissolu Good Leaching Barren Chalk Cht Wht-Tan Translu-Op
Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Med-Good OOM Por Poor-Fair InterOOM Por Barren
Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Blk Carb - Char - Gry-
Maroon Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Poor OOM Por Poor InterOOM Por Barren Chalk Cht
Wht Translu-Op Shp Vit Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Poor OOM Por Poor InterOOM Por Barren Cht Wht Op
Shp Vit Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn Med-Good OOM Por Poor-Fair InterOOM Vug Por
(w/Small-Med OOids in pl) Barren Cht Wht Op Shp Vit Sh Char-Gry
Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn Med-Good OOM Por Poor-Fair InterOOM Vug Por
(w/Small-Med OOids in pl) Barren Cht Wht Op Shp Vit Chalky Sh Char-Gry
Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb Soft-Fissil Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn
Por Barren Cht Wht -Gry Translu-Op Shp Vit Chalky No Odor No Flor No Stn
NS

LANSING "G" 4563' (- 1738)

Sh Blk Carb- Char-Gry- Maroon Fissil-Soft Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por
Barren Cht Wht -Gry Translu-Op Shp Vit Chalk No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por Barren Cht Wht -Gry
Translu-Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil-Soft y No Odor No
Flor No Stn NS

Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por Barren Cht Wht -Gry
Translu-Op Shp Vit Chalk Sh Blk Carb-Char-Gry Soft-Fissil No Odor No Flor
No Stn NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad FxIn Med-Good Vug InterOOM
Por (w/Med OOids in pl) Fair-Med Dissolu Fair-Med Leaching Cht Wht Op
Shp Vit Sh Char-Gry-Blk Carb Soft-Fissil No Odor No Flor No Stn NS

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

Ls Crm-Tan Dns MicroxIn Barren Cht Wht Op Shp Vit Chalk Sh Char-Gry-Blk
Carb (Tr) Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Chalky Cht Gry-Tan-Lt Org Translu-Op
Shp Vit Sh Char-Gry Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Chalky Cht Gry-Tan-Lt Org Translu-Op
Shp Vit Sh Char-Gry Soft No Odor No Flor No Stn NS

30" CFS @ 4672' Ls Crm-Tan-Gry FxIn Poor OOM Por Poor InterOOM Por
Poor Dissolu Poor Leaching Grad Dns Micrite Chalky Sh Char-Gry Fissil No
Odor No Flor No Stn NS

60" CFS @ 4672' Ls Wht-Crm-Tan MicroxIn Dns Micrite Cht Wht-Lt Org
Translu-Op Shp Vit Chalky (V Abd) Sh Char-Gry Fissil No Odor No Flor No
Stn NS

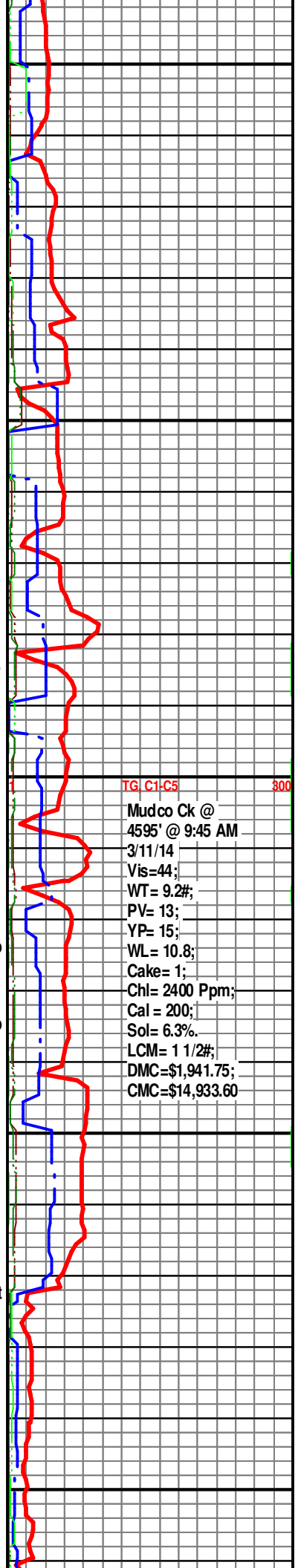
Trip Debris Ls Wht-Crm MicroxIn Dns Micrite AA Cht Gry Translu-Op Shp Vit
AA Sh Char- Gry Soft AA No Odor No Stn No Flor NS

Trip Debris Ls Crm-Tan FxIn Poor OOM Por AA Grad Dns Micrite Cht Wht
Op Shp Vit AA Chalky Sh Blk Carb-Char-Gry Fissil AA No Odor No Flor No
Stn NS

Trip Debris Ls Crm-Tan FxIn Poor OOM Por AA Grad Dns Micrite Cht Wht
Op Shp Vit AA Chalky Sh Blk Carb-Char-Gry Fissil AA No Odor No Flor No
Stn NS

Trip Debris Ls Crm-Tan FxIn Poor OOM Por AA Grad Dns Micrite Cht Wht
Op Shp Vit AA Chalky Sh Blk Carb-Char-Gry Fissil AA No Odor No Flor No
Stn NS

Trip Debris Ls Crm-Tan FxIn Poor OOM Por AA Grad Dns Micrite Cht Wht



Op Shp Vit AA Chalky Sh Blk Carb-Char-Gry Fissil AA No Odor No Flor No Stn NS

STARK SHALE 4722' (- 1897)

30" CFS @ 4749' Sh Blk Carb-Char Fissil (w/SG) V Abd Ls Wht-Crm-Tan-Brn Microxln Dns Micrite Grad Fair OOM Por Fair-Med Develop Fair Leaching Chalky No Odor No Stn No Flor SG in Blk Sh

KANSAS CITY "SWOPE" (K) 4730' (-1915)

60" CFS @ 4749' Ls Wht-Crm Fxln Med OOM Por (w/ Med OOids in pl) Med-Good Leaching AA Med-Good Dissolu Barren Grad Microxln Dns Micrite Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Med OOM Por (w/ Med OOids in pl) Med-Good Leaching AA Med-Good Dissolu Barren Grad Microxln Dns Micrite Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Microxln Dns Micrite & Med OOM Por AA Dec Fair Leaching AA Fair Dissolu Barren Grad Chalky Sh Char-Gry (w/Pry Inclus) Fissil No Odor No Stn No Flor NS

HUSHPUCKNEY SHALE 4777' (- 1952)

KANSAS CITY "HERTHA" (L) 4783' (- 1958)

Ls Crm-Tan Microxln Dns Micrite Chalk Sh Blk Carb Fissil No Odor No Stn No Flor NS

KANSAS CITY "HERTHA Ø" 4796' (-1971)

Ls Wht-Crm Fxln Med OOM Por (w/ Med OOids in pl) Med-Good Leaching ? Sli Min Flor Med-Good Dissolu Grad Microxln Dns Micrite Chalky Sh Char-Gry Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil V Abd Ls AA Chalky No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil V Abd Ls AA Chalky No Odor No Stn No Flor NS

Ls Tan-Crm Fxln Micritic Grad Poor OOM Por (w/Small-Med OOL in pl) Poor Dissolu Poor Develop Poor Leaching Barren Chalk Sh Char-Grn Fissil No Odor No Flor No Stn NS

Ls Tan-Crm Fxln Micritic Grad Poor OOM Por (w/Small-Med OOL in pl) Poor Dissolu Poor Develop Poor Leaching Barren Cht Amber Op Shp Vit Fos (Crin) Chalk Sh Char-Grn Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry-Red Soft-Fissi Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Chalk No Odor No Flor No Stn NS

MARMATON 4864' (- 2039)

Sh Blk Carb-Char-Gry-Red Soft-Fissi Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Chalk No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Chalk Sh Char-Gry-Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Chalk V Abd Sh Char-Gry-Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry- Maroon-Aqua Soft-Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Fos (Crin) V Abd Chalk No Odor No Flor No Stn NS

MARMATON "B" 4900' (- 2075)

Sh Blk Carb-Char-Gry- Maroon-Aqua Soft-Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Fos (Crin) V Abd Chalk No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Chalk Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic Dns Barren Chalk Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor Ixln Pin-Pt Por Micritic Dns Barren Cht

SH GAS KICK = 206 UNITS.

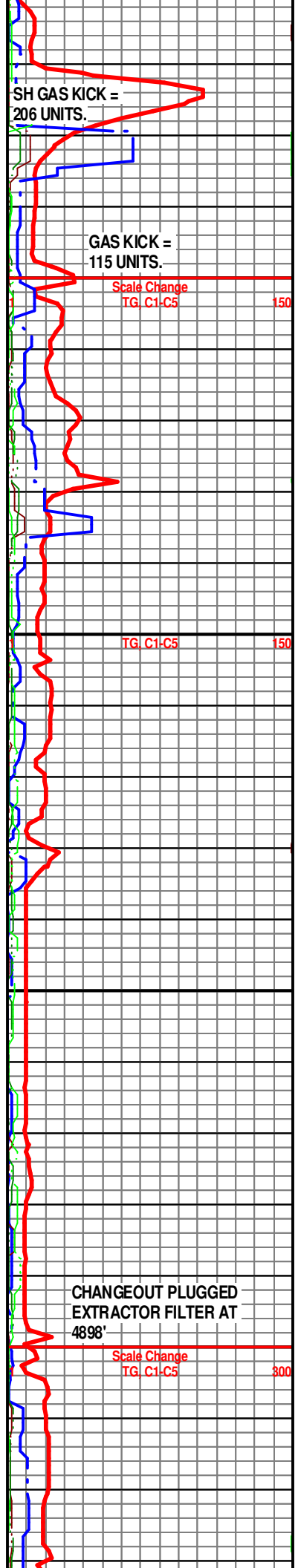
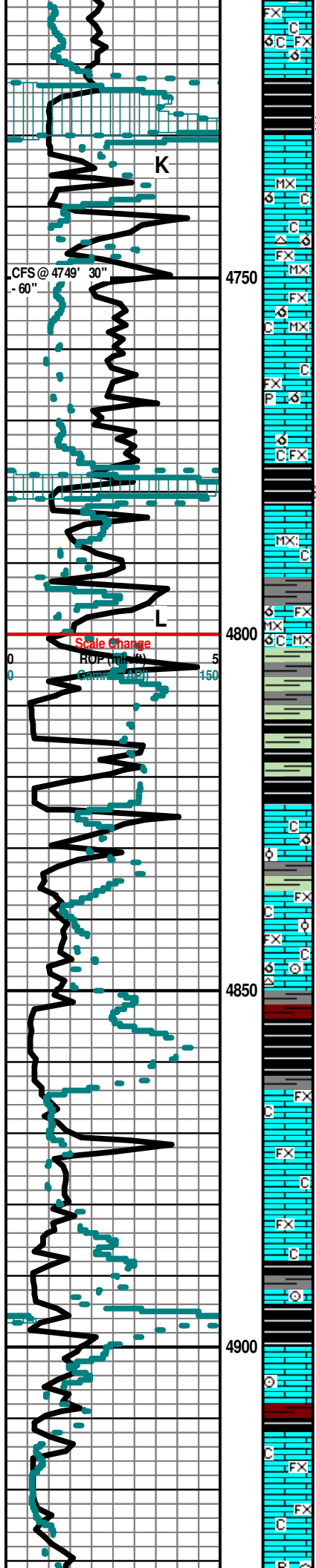
GAS KICK = 115 UNITS.

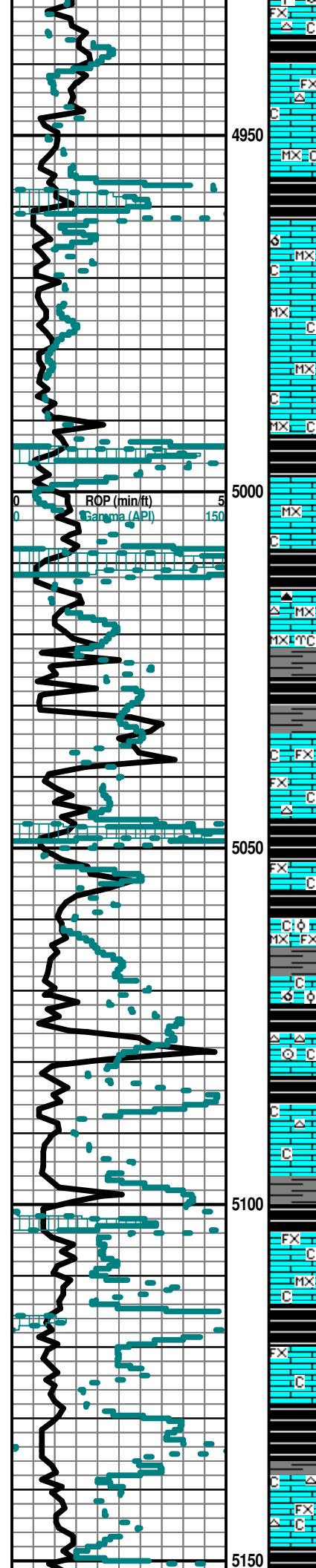
Scale Change TG C1-C5 150

TG C1-C5 150

CHANGEOUT PLUGGED EXTRACTOR FILTER AT 4898'

Scale Change TG C1-C5 300





Amber-Gry Translu-Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Sh-Blk Carb-Char-Gry Fissil Ls Wht Crm-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Cht Wht-Gry Translu-Op Shp Vit No Odor No Flor No Stn NS

Ls Wht-Crm-Tan Microxln Micrite Chalky Sh Blk Carb-Char-Gry No Odor No Flor No Stn NS

BANDERA SHALE 4966' (- 2141)

PAWNEE 4962' (- 2137)

Sh Blk Carb-Char- Grn/Gry Fissil Ls Wht-Crm-Gry Microxln-Fxln Micrite Dns Grad Poor Ixln Gran Por Grad Poor OOM Por Poor InterOOM Por Poor Leaching Poor Develop (Tr Only) No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Micrite Chalky Sh Blk Carb-Aqua No Odor No Flor No Stn NS

Ls Wht-Crm-Tan Microxln Micrite Chalky Sh Blk Carb-Aqua No Odor No Flor No Stn NS

LABETTE SHALE 4992' (- 2167)

FORT SCOTT 4998' (-2173)

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

CHEROKEE SHALE 5008' (- 2183)

Sh Blk Carb Abd-Char-Gry Fissil Ls Wht-Crm-Tan Microxln Micrite Grad Fxln Fair-Med Pin-Pt Ixln Por Cht Wht-Lt Org Translu-Op Shp Vit Chalk No Odor No Flor No Stn NS

Ls Wht-Crm-Tan Microxln Micrite Grad Fxln Poor Pin-Pt Ixln Por Fos (Bry) Chalk Sh Blk Carb Abd-Char-Gry No Odor No Flor No Stn NS

Ls Crm-Wht Fxln Poor Ixln Por Micritic Dns Barren Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Fxln Poor Ixln Por Micritic Dns Barren Cht Amber Translu Shp Vit Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

SECOND CHEROKEE SHALE 5046' (- 2221)

Ls Crm-Wht Fxln Poor Ixln Por Micritic Dns Barren Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan Microxln-Fxln Poor Ixln Por Micritic Dns Barren Grad Poor OOL Por (w Small OOids in pl) Cht Wht Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan Microxln-Fxln Poor Ixln Por Micritic Dns Barren Grad Poor OOM Por (w Small OOids in pl) Cht Wht Op Shp Vit Chalk Fos (Crin) Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Micritic Dns (w/Pyr Includ) Barren Chalk Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor Ixln Por Micritic Dns (w/Pyr Includ) Barren Chalk Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

THIRD CHEROKEE SHALE 5100' (- 2275)

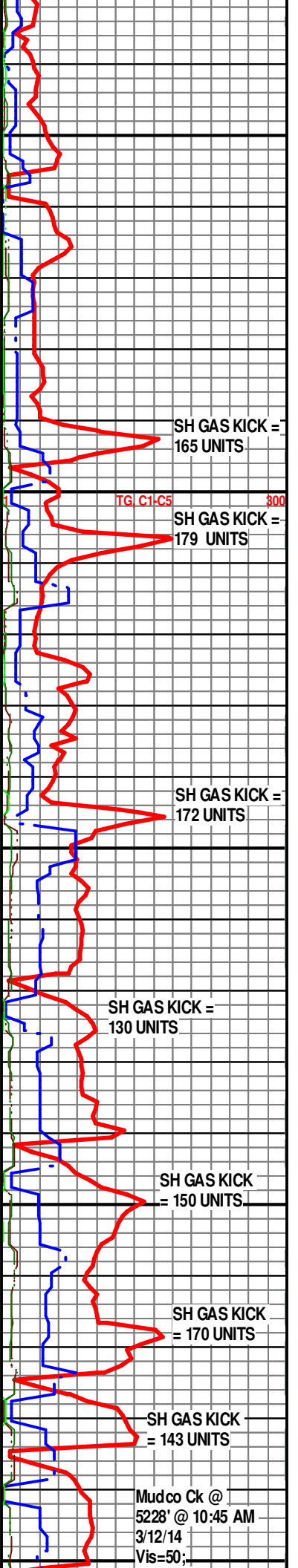
Sh Blk Carb-Gry Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk No Odor No Flor No Stn NS

Sh Blk Carb (w/SG)-Char-Gry Fissil Ls Wht-Crm-Tan Microxln-Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft No Odor No Flor No Stn NS

Sh Blk Carb-Gry Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht-Wht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht-Wht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS



SH GAS KICK = 165 UNITS

SH GAS KICK = 179 UNITS

SH GAS KICK = 172 UNITS

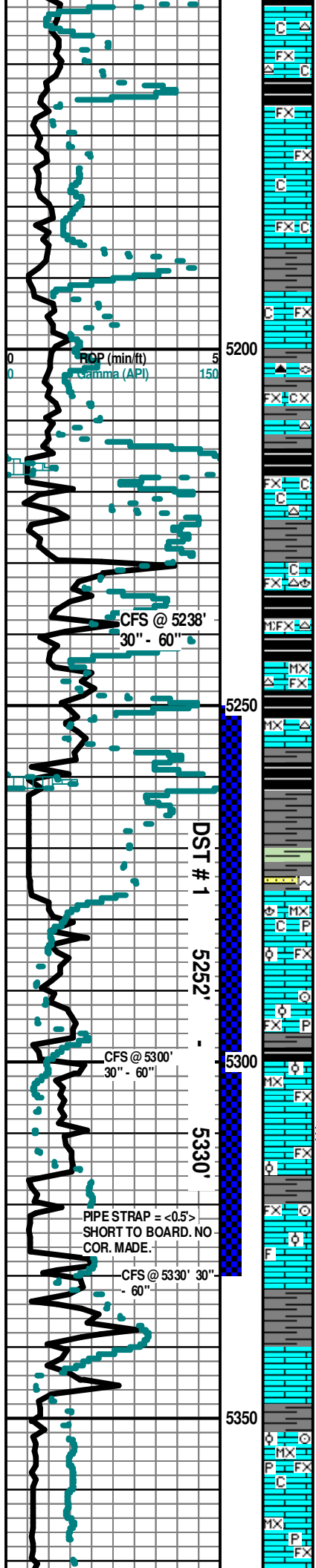
SH GAS KICK = 130 UNITS

SH GAS KICK = 150 UNITS

SH GAS KICK = 170 UNITS

SH GAS KICK = 143 UNITS

Mudco Ck @ 5228' @ 10:45 AM 3/12/14 Vis=50;



Sh Char-Gry-Tr Blk Carb Fissil Abd Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Leaching Chalk Cht Drk Blk (w/Wht Fos Includ) Op Shp Vit Fos (Fuss) No Odor No Flor No Stn NS

Sh Char-Gry-Tr Blk Carb Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Leaching Chalk Cht Drk Blk (w/Wht Fos Includ) Op Shp Vit Fos (Fuss) No Odor No Flor No Stn NS

Sh Char-Gry-Tr Blk Carb Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Cht Wht (Fos (Fuss) Includ) Op Shp Vit No Odor No Flor No Stn NS

Sh Char-Gry-Tr Blk Carb Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Drk Blk-Wht (w/Fos (Fuss) Includ) Op Shp Vit No Odor No Flor No Stn NS

ATOKA SHALE 5214' (- 2389)

30" CFS @ 5238' Sh Blk Carb-Char-Gry Fissil-Soft Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Lt Gry Op Shp Vit No Odor No Flor No Stn NS

60" CFS @ 5238' Sh Blk Carb-Char-Gry Fissil-Soft Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Lt Gry-Amber Translu-Op Shp Vit Fos (Brach) No Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb Soft-Fissil Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Wht Op Shp Vit No Odor No Flor No Stn NS

Ls Crm-Wht-Tan MicroIn Poor Ixln Por Micritic Dns Barren Chalk Cht Wht Op Shp Vit Sh Char-Gry-Blk Carb Soft-Fissil No Odor No Flor No Stn NS

MORROW SHALE 5258' (- 2433)

Sh Char-Gry-Blk Carb Soft-Fissil Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Wht Op Shp Vit No Odor No Flor No Stn NS

Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Wht (w/Fos Includ) Op Shp Vit Sh Char-Gry-Blk Carb Soft-Fissil ? Faint Odor No Flor No Stn NS

MISSISSIPPIAN CHESTER 5278' (- 2453)

30" CFS @ 5300' Ls Crm-Wht-Tan MicroIn-Fxln (w/Pyr Includ Poor Ixln Por Micritic Dns Barren Chalk Fos (Brach (w/Pyr), Crin) SG & SFO (w/Broken In Wtr Under Heat & SFO (3 Lt Brn Droplets) in tray) Gas & Oil Do Not Flor) Cht Amber Translu Shp Vit Pyr Mass Chalk Qtz Ss Wht-Aqua VFGm Well Sorted Sub Rounded Poor IGran Por (w/Hvy CaCO3 Cmt Matrix w/Glacu Includ-Tr Only 2 Pcs) Sh Char-Gry-Blk Carb Soft-Fissil Fair Odor ? Min Flor Sli Lt Brn Stn SSG & SSO

60" CFS @ 5300' Ls Crm-Tan Fxln Fair-Med OOL Vug Ixln/Fos Por (w/Small-Med OOids in pl) Fair Dissolution Fair-Med Leaching Fos (Crin) Friable SG & SFO (Gas & Oil Do Not Flor) (SSG & SFO (2 Droplets) w/Broken In Wtr Under Heat & SFO in tray) Qtz Ss Lt Gry VFGm Well Sorted Sub Rounded Poor IGran Por (w/CaCO3 Cmt Matrix w/Pyr Includ-Tr Only 1 Pcs) Fair Inc Odor Lt Brn Stn ? Min Flor SSG & SSO

30" CFS @ 5330' Ls Wht-Crm MicroIn-Fxln Dns Micrite Grad Fair OOL Por AA & Fair Pin-Pt Ixln Por (w/SSG & SSO (< 5 Pcs)) Sh Char- Gry- Blk Carb Soft-Fissi Sli Faint Odor No Flor ? NS

60" CFS @ 5330' Ls Wht-Crm-Tan Fxln Med OOL Vug Ixln/Fos Por (w/Small-Med OOids in pl) Fair Dissolution Fair-Med Leaching Fos (Crin, Spicule) Friable FSG & FSFO (3 Pcs ? Sluff w/SSG & SFO (5 Droplets w/Broken In Wtr Under Heat & SFO in tray)) Sh Char-Gry- Blk Carb Soft-Fissil No Odor Lt-Drk Brn Stn No Flor SSG & SSO

NO SAMPLE - (LOST CIRCULATION RETURNS AT @ 5377')

NO SAMPLE - (LOST CIRCULATION RETURNS AT @ 5377')

30" CFS @ 5377' Lost Circulation Sample Ls Wht- Crm- Gry MicroIn-Fxln Dns Micrite Grad Fair Pin-Pt Ixln Por (w/Streaks Pyr Includ) Grad Fair OOL/Fos Ixln Por (w/Tr (1 Pcs) Sli Scat Lt Brn Stn w/SSG/SSO (? Sluff)) Fos (Crin) Chalky Pyr Mass Sh Char-Gry-Aqua- Drab Grn-Blk Carb Fissil No Odor No Flor No Stn NS

60" CFS @ 5377' Lost Circulation Sample Ls Wht-Crm-Gry-Lt Grn MicroIn -Fxln Dns Micrite Grad Fair Pin-Pt Ixln Por (w/Streaks Pyr Includ) Pyr Mass Sh Char-Gry-Drab Grn-Blk Carb Fissil No Odor No Flor No Stn NS

WT= 9.3#;
PV= 18;
YP= 22;
WL= 8.8;
Cake= 1;
Chl= 3200 Ppm;
Cal = 80;
Sol= 7.6%
LCM= 6#;
DMC=\$6,081.80;
CMC=\$21,015.40

~ ~ DST # 1 ~ ~
Interval 5252'-5330';
Times:
5'-60"-90"-120";
Blow: IF= Good/8" .
No Blow Back
During ISIP.
FF= Strong Blow
BOB/Immed 10
Sec. No Blow
Back During FSIP.

Recovery: 1060'
GIP; 190' TF: 90'
OCM (25% O, 75% M); & 100' GOCM (20% G, 25% O, 55% M).

Pressures:
IH = 2641#;
FH = 2594#;
IF = 28-36#;
FF = 54-71#;
ISIP = 773#;
FSIP = 529#;
Temp.= 125 degrees F.

GAS KICK = 209 UNITS.

GAS KICK = 156 UNITS.

Mudco Ck @
5330' @ 1:45 PM
3/13/14
Vis=50;
WT= 9.3#;
PV= 16;
YP= 16;
WL= 8.8;
Cake= 1;
Chl= 3000 Ppm;
Cal = 80;
Sol= 6.9%
LCM= 4#;
DMC=\$ 334.30;
CMC=\$21,349.70

Scale Change
TG C1:CS 900

GAS KICK=887 UNITS.

LOST CIRCULATION RETURNS AT @ 5377'.

Scale Change
TG C1:CS 150

LOST CIRCULATION = 120 BBLs TOTAL

CFS @ 5377'
30" - 60" - 90"
LOST
CIRCULATION @
5377'

ROP (min/ft)

5400

5450

5500

5550

CFS @ 5550' 30"
- 60" 75"

R.T.D. = 5550' (-2725)
L.T.D. = 5549' (-2724)



90" CFS @ 5377' Lost Circulation Sample Ls Wht-Crm-Gry-Gry-Lt Grn MicroxIn - FxIn Dns Micrite Grad Fair Pin-Pt IxIn Por (w/Streaks Pyr Inclus) Pyr Mass Fos (Crin) Abd Sh Char-Gry-Drab Grn-Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Micrite Grad Fair IxIn Por Barren Cht Amber-Wht Translu Vit Shp Fos (Crin) Sh Char-Gry-Drab Grn-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Micrite Grad Fair IxIn Por Barren Cht Amber Translu Vit Shp Sh Char-Gry-Drab Grn-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Micrite Grad Fair IxIn Por Barren Cht Amber Translu Vit Shp Sh Char-Gry-Drab Grn-Blk Carb Fissil No Odor No Stn No Flor NS

Sh Red-Maroon-Char-Aqua-Grn/Gry Soft-Fissil (Wash Red) V Abd Ls AA FxIn-MicroxIn Dns Micrite Barren Chalk No Odor No Stn No Flor NS

Sh Red-Maroon-Char-Aqua-Grn/Gry-Purple Soft-Fissil (Wash Red) V Abd Ls AA FxIn-MicroxIn Dns Micrite Barren Chalk No Odor No Stn No Flor NS

LOWER CHESTER 5430' (-2605)

Qtz Ss Wht-Lt Gry VFGrn Med-Well-Rd Med-Well-Sorted Fair IGran Por (Hvy Wht CaCO3 Matrix) Barren Ls AA Cht Wht Op Shp Vit Sh Varicolored AA (Wash Red) No Odor No Stn No Flor NS

Qtz Ss Wht-Lt Gry VFGrn Med-Well-Rd Med-Well-Sorted Fair IGran Por (Hvy Wht CaCO3 Matrix) Barren Ls AA Cht Wht Op Shp Vit Sh Varicolored AA (Wash Red) No Odor No Stn No Flor NS

Sh Varicolored AA (Wash Red) Qtz Ss Wht-Lt Gry VFGrn Med-Well Rd Med-Well Sorted Fair IGran Por (Hvy Wht CaCO3 Matrix) Barren Ls AA Cht Wht Op Shp Vit No Odor No Stn No Flor NS

MISSISSIPPIAN "Ste. GEN" 5472' (- 2647)

Ls Wht-Lt Aqua (in Aqua CaCo3 Matrix) FxIn Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Dolo Gry MicroxIn Dns Micrite Chalk Sh Char-Blk Carb-Gry-Grn-Aqua-Maroon Soft- Fissil No Odor No Flor No Stn NSNS

Ls Wht-Lt Aqua-Lt Gry FxIn Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Ls/Dolo Gry MicroxIn Dns Micrite Chalk Sh Char-Blk Carb-Gry-Grn-Aqua-Maroon Soft-Fissil No Odor No Flor No Stn NSNS

Ls Wht-Lt Aqua-Lt Gry FxIn Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Ls/Dolo Gry MicroxIn Dns Micrite Chalk Sh Varicolored AA Soft- Fissil No Odor No Flor No Stn NSNS

Ls Wht-Lt Aqua-Lt Gry FxIn Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Ls/Dolo Gry MicroxIn Dns Micrite Chalk Sh Varicolored AA Soft- Fissil No Odor No Flor No Stn NSNS

30" CFS @ 5550' Ls Wht-Lt Aqua-Lt Gry FxIn Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Ls/Dolo Gry MicroxIn Dns Micrite Chalk Sh Varicolored AA Soft- Fissil No Odor No Flor No Stn NS NS

60" CFS @ 5550' Ls Wht-Lt Aqua-Lt Gry FxIn Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Ls/Dolo Gry MicroxIn Dns Micrite Chalk Sh Varicolored AA Soft- Fissil No Odor No Flor No Stn NS NS

75" CFS @ 5550' Ls Wht-Lt Aqua-Lt Gry FxIn Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Ls/Dolo Gry MicroxIn Dns Micrite Chalk Sh Varicolored AA Soft- Fissil No Odor No Flor No Stn NS NS

TG C1-C5 150

Mudco Ck @
5550' @ 9:30 AM
3/14/14
Vis=60;
WT= 9.1#;
PV= 20;
YP= 24;
WL= 8.0;
Cake= 1;
Chl= 2000 Ppm;
Cal = 40;
Sol= 5.4%
LCM= 10#;
DMC=\$4,131.15;
CMC=\$25,480.85.

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

Geologist Left Location At: 1:00 PM on 3/14/2014



DRILL STEM TEST REPORT

Prepared For: **McCoy Petro. Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206 - 2366

ATTN: Dave Williams

Schwab A #1-7

7-3os-30w Meade,KS

Start Date: 2014.03.13 @ 00:36:14

End Date: 2014.03.13 @ 11:04:59

Job Ticket #: 52483 DST #: 1

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

Printed: 2014.03.20 @ 14:20:46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

McCoy Petro. Corp.
8080 E. Central Ste. 300
Wichita, KS 67206 - 2366
ATTN: Dave Williams

7-3os-30w Meade,KS
Schwab A #1-7
Job Ticket: 52483 **DST#: 1**
Test Start: 2014.03.13 @ 00:36:14

GENERAL INFORMATION:

Formation: **Chesterian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:32:44
Time Test Ended: 11:04:59
Interval: **5252.00 ft (KB) To 5330.00 ft (KB) (TVD)**
Total Depth: 5330.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 2825.00 ft (KB)
2816.00 ft (CF)
KB to GR/CF: 9.00 ft

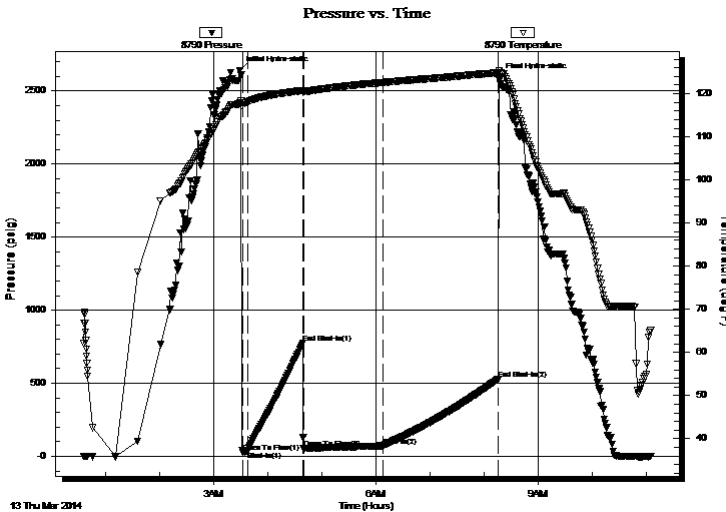
Serial #: 8790

Inside

Press@RunDepth: 70.65 psig @ 5257.00 ft (KB)
Start Date: 2014.03.13 End Date: 2014.03.13
Start Time: 00:36:19 End Time: 11:04:59
Capacity: 8000.00 psig
Last Calib.: 2014.03.13
Time On Btm: 2014.03.13 @ 03:29:29
Time Off Btm: 2014.03.13 @ 08:16:44

TEST COMMENT: IF: Good blow . 1/2" - 8"
IS: No blow
FF: Strong blow . BOB immed. NO GTS.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2641.11	117.80	Initial Hydro-static
4	28.01	117.85	Open To Flow (1)
9	35.58	118.09	Shut-In(1)
70	773.23	120.75	End Shut-In(1)
71	53.66	120.51	Open To Flow (2)
159	70.65	122.60	Shut-In(2)
286	529.07	124.81	End Shut-In(2)
288	2594.01	125.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GOCM 20%g, 25%o, 55%m	0.49
90.00	OCM 25%o, 75%m	0.44
0.00	1060' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petro. Corp.

7-3os-30w Meade,KS

8080 E. Central Ste. 300
Wichita, KS 67206 - 2366

Schwab A #1-7

Job Ticket: 52483

DST#: 1

ATTN: Dave Williams

Test Start: 2014.03.13 @ 00:36:14

Tool Information

Drill Pipe:	Length: 5001.00 ft	Diameter: 3.80 inches	Volume: 70.15 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 71.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	5252.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	105.00 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			5226.00	
Shut In Tool	5.00			5231.00	
Hydraulic tool	5.00			5236.00	
Jars	5.00			5241.00	
Safety Joint	2.00			5243.00	
Packer	5.00			5248.00	27.00 Bottom Of Top Packer
Packer	4.00			5252.00	
Stubb	1.00			5253.00	
Perforations	3.00			5256.00	
Change Over Sub	1.00			5257.00	
Recorder	0.00	8790	Inside	5257.00	
Recorder	0.00	8792	Outside	5257.00	
Drill Pipe	64.00			5321.00	
Change Over Sub	1.00			5322.00	
Perforations	5.00			5327.00	
Bullnose	3.00			5330.00	78.00 Bottom Packers & Anchor
Total Tool Length:	105.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petro. Corp.

7-30s-30w Meade,KS

8080 E. Central Ste. 300
Wichita, KS 67206 - 2366

Schwab A #1-7

Job Ticket: 52483

DST#: 1

ATTN: Dave Williams

Test Start: 2014.03.13 @ 00:36:14

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:

3200 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	GOCM 20%g, 25%o, 55%m	0.492
90.00	OCM 25%o, 75%m	0.443
0.00	1060' GIP	0.000

Total Length: 190.00 ft Total Volume: 0.935 bbl

Num Fluid Samples: 0

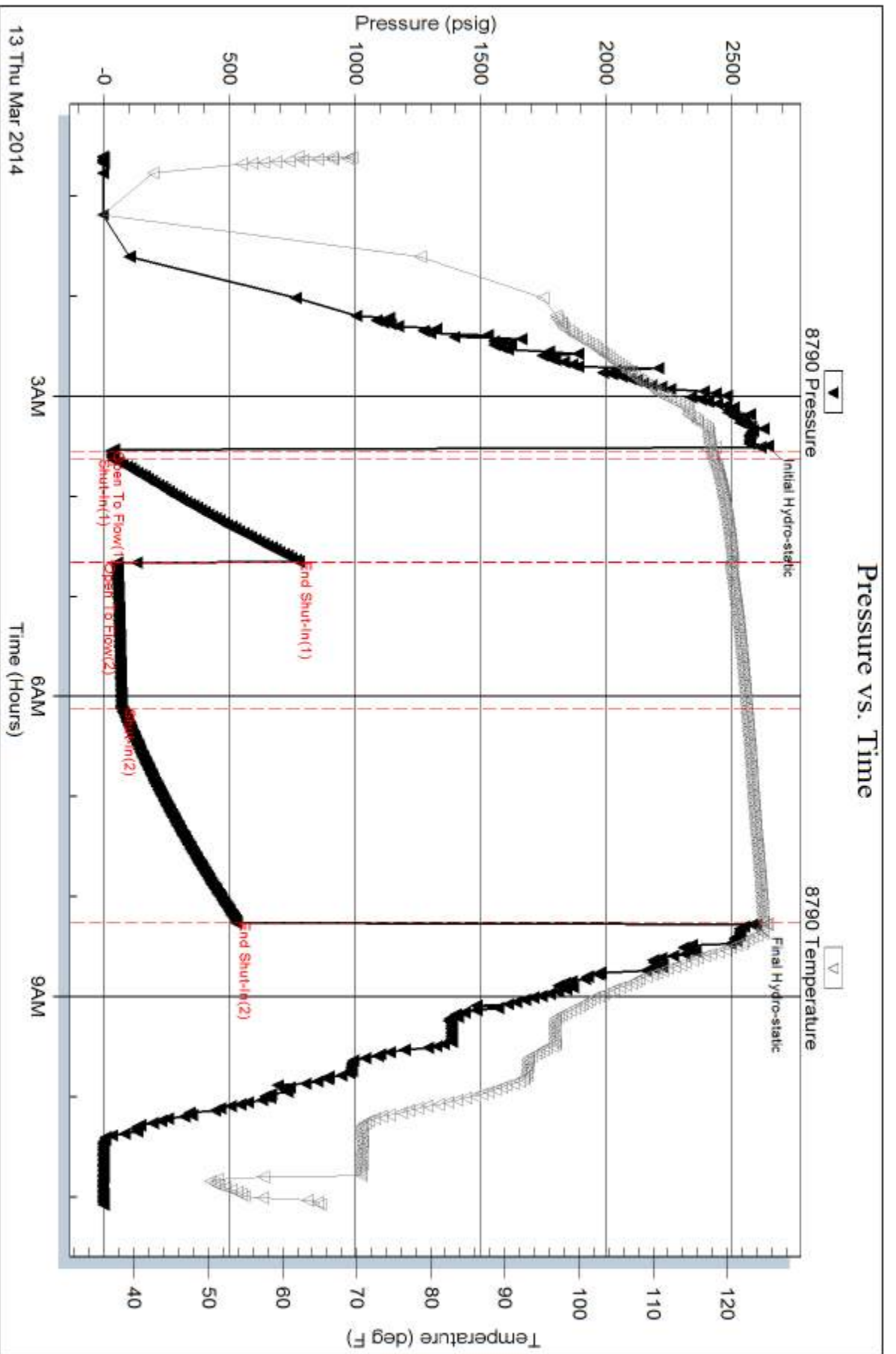
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

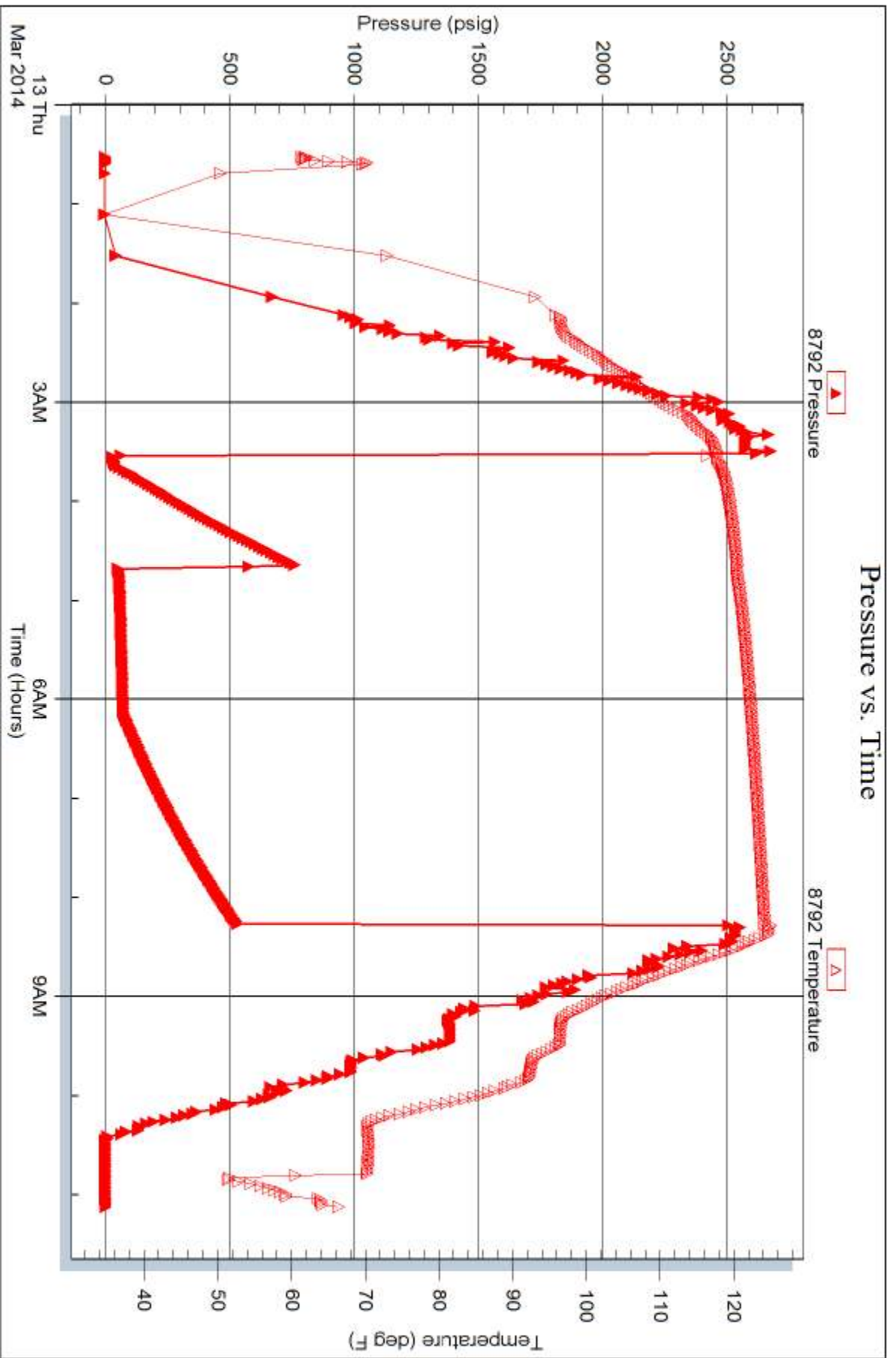


Serial #: 8792

Outside McCoy Petro. Corp.

Schw ab A #1-7

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52483

Well Name & No. Schwab "A" 1-7 Test No. 1 Date 3-12-14
 Company McCoy Petro. Corp. Elevation 2825 KB 2816 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2366
 Co. Rep / Geo. Dave Williams Rig Sterling 2
 Location: Sec. 7 Twp. 30s. Rge. 30w. Co. Meade State KS

Interval Tested 5252-5330 Zone Tested Chesterian
 Anchor Length 78' Drill Pipe Run 5001 Mud Wt. 9.4
 Top Packer Depth 5247 Drill Collars Run 247 Vis 50
 Bottom Packer Depth 5252 Wt. Pipe Run Ø WL 8.8
 Total Depth 5330 Chlorides 3200 ppm System LCM 6#
 Blow Description IF: Good blow. 1/2" - 8" ISI: No blow.
FF: Strong blow. BoB immed. No GTS FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1060</u>	<u>GTP</u>				
<u>90</u>	<u>OCM</u>	<u>Ø</u>	<u>25</u>	<u>Ø</u>	<u>75</u>
<u>100</u>	<u>6OCM</u>	<u>20</u>	<u>25</u>		<u>55</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1250 BHT 125 Gravity N/C API RW N/C @ N/C °F Chlorides 3200 ppm
 (A) Initial Hydrostatic 2641 Test: 1350 T-On Location 2315
 (B) First Initial Flow 28 Jars 250 T-Started 0036
 (C) First Final Flow 36 Safety Joint 75 T-Open 0330
 (D) Initial Shut-In 773 Circ Sub _____ T-Pulled 0807
 (E) Second Initial Flow 54 Hourly Standby _____ T-Out 1105
 (F) Second Final Flow 71 Mileage 248 384.40 Comments _____
 (G) Final Shut-In 529 Sampler _____
 (H) Final Hydrostatic 2594 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2059.40

Initial Open 5
 Initial Shut-In 60
 Final Flow 90
 Final Shut-In 120
 Sub Total 2059.40
 Approved By Daniel P. Williams Our Representative Ryan Reynolds
 Total 2059.40
 MP/DST Disc't _____

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.

ALLIED OIL & GAS SERVICES, LLC 052529

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberals KS

DATE <u>3-8-14</u>	SEC <u>7</u>	TWP <u>30S</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION <u>9:00am</u>	JOB START <u>1:30pm</u>	JOB FINISH <u>3:00pm</u>
LEASE <u>Schwoba</u> WELL # <u>1-7</u>				LOCATION <u>Vec Copeland KS</u>		COUNTY <u>Meade</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Sterling # 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH 1826

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 41.23

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 119 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Lenny Baeza

549-SSO HELPER Jaime M.

BULK TRUCK

868-842 DRIVER Ricardo L.

BULK TRUCK

472-544 DRIVER

REMARKS:

OWNER	
CEMENT <u>650sk</u>	
AMOUNT ORDERED <u>65/35 60% seal 3% cc</u>	
<u>1/2" flo seal 3# Gilsomite</u>	
<u>200S Class A 3% cc 1/4" flo seal</u>	
COMMON <u>200sk</u> @ <u>17.90</u>	<u>3580.00</u>
POZMIX @	
GEL @	
CHLORIDE <u>30sk</u> @ <u>64.00</u>	<u>1920.00</u>
ASC @	
<u>Allied Light Weight 650</u> @ <u>16.50</u>	<u>10725.00</u>
<u>Gilsomite 1950#</u> @ <u>.98</u>	<u>1911.00</u>
<u>flo seal 375#</u> @ <u>2.97</u>	<u>1113.75</u>
HANDLING <u>1015.31</u> @ <u>2.48</u>	<u>2517.97</u>
MILEAGE <u>1666.57</u> @ <u>2.60</u>	<u>4333.08</u>
TOTAL <u>26100.00</u>	

SERVICE

DEPTH OF JOB <u>1001-2000</u>	
PUMP TRUCK CHARGE <u>2213.75</u>	
EXTRA FOOTAGE @	
MILEAGE <u>40</u> @ <u>7.70</u>	<u>308.00</u>
MANIFOLD @	<u>275.00</u>
<u>Light Vehicle</u> @ <u>4.40</u>	<u>176.00</u>
TOTAL <u>2972.75</u>	

CHARGE TO: McCoy Petroleum

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>AFU Float Valve</u> @	<u>446.94</u>
<u>Guide Shoe</u> @	<u>460.98</u>
<u>Centralizer S</u> @ <u>74.55</u>	<u>374.40</u>
<u>Cement Basket</u> @	<u>559.26</u>
<u>Top plug</u> @	<u>131.04</u>
TOTAL <u>1972.62</u>	

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 Colvin Mikkelson

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES \$ 31,046.14

DISCOUNT _____ IF PAID IN 30 DAYS

Net \$ 21,732.32

ALLIED OIL & GAS SERVICES, LLC 052532

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Liberia, KS

DATE <u>3-15-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>3-14-14</u> <u>11:00pm</u>	JOB START <u>6:00am</u>	JOB FINISH <u>9:00am</u>
LEASE <u>Schwab A</u>	WELL # <u>1-7</u>	LOCATION <u>Vec Copeland MS</u>			COUNTY <u>Wood</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Sterling #2 OWNER _____

TYPE OF JOB Production

HOLE SIZE <u>7 1/8</u>	T.D. <u>5550</u>
CASING SIZE <u>4 1/2</u>	DEPTH <u>5560</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL _____	DEPTH _____
PRES. MAX _____	MINIMUM _____
MEAS. LINE _____	SHOE JOINT <u>4313</u>
CEMENT LEFT IN CSG. _____	
PERFS. _____	
DISPLACEMENT <u>87.60</u>	EQUIPMENT _____

PUMP TRUCK # <u>S31-541</u>	CEMENTER <u>Lenny Bazz</u>
BULK TRUCK # <u>456-554</u>	HELPER <u>Jame Maldonado</u>
BULK TRUCK # _____	DRIVER <u>Gregory R.</u>
BULK TRUCK # _____	DRIVER _____

CEMENT

AMOUNT ORDERED 175sk Class A S.S.#
1.0% # K/sal 2% gel 10% salt .05% FL
1/4" # flo seal 80sk 60/40 4% gel

COMMON <u>30sk</u>	@ <u>17.90</u>	<u>537.00</u>
POZMIX <u>20sk</u>	@ <u>9.35</u>	<u>187.00</u>
GEL <u>4 sks</u>	@ <u>23.40</u>	<u>93.60</u>
CHLORIDE _____	@ _____	_____
ASC <u>175sk (Class A)</u>	@ <u>20.90</u>	<u>3657.50</u>
<u>Gilsonite 6.5#</u>	@ <u>.98</u>	<u>657.50</u>
<u>FL-160 9#</u>	@ <u>18.90</u>	<u>170.10</u>
<u>Flo seal 49#</u>	@ <u>2.97</u>	<u>130.68</u>
<u>Stop Loss 94cc/100</u>	@ <u>2.60</u>	<u>260.00</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>292.00</u>	@ <u>2.48</u>	<u>724.16</u>
MILEAGE <u>483.00</u>	@ <u>2.60</u>	<u>1255.80</u>
TOTAL		<u>10213.34</u>

REMARKS: _____

CHARGE TO: Mcloy

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>5001-600</u>	_____	
PUMP TRUCK CHARGE <u>3099.25</u>	_____	
EXTRA FOOTAGE _____	@ _____	
MILEAGE <u>40 mile</u>	@ <u>7.70</u> <u>308.00</u>	
MANIFOLD <u>1</u>	@ _____ <u>275.00</u>	
<u>light vehicle 40 mil</u>	@ <u>4.40</u> <u>176.00</u>	
_____	@ _____	
TOTAL		<u>3858.25</u>

PLUG & FLOAT EQUIPMENT

<u>AFU Float Shoe 1</u>	@ _____	<u>383.59</u>
<u>Catch Down plug 1</u>	@ _____	<u>272.61</u>
<u>Turbolizer 40</u>	@ <u>10.09</u>	<u>360.36</u>
_____	@ _____	_____
_____	@ _____	_____
TOTAL		<u>1016.56</u>

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

SALES TAX (If Any) _____
 TOTAL CHARGES \$ 15087.15

PRINTED NAME Calvin Mikkelson DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature] \$ Net 10561.00