



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1222070  
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: \_\_\_\_\_

1222070

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	McCoy Petroleum Corporation
Well Name	MTPRC 'B' #4-22
Doc ID	1222070

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	48	95	60/40 Pozmix	250	3%CC, 1/4#/sxCF
Conductor	12.25	10.75	32	270	Acon, Pozmix	870	2%CC, 1/4#/sxCF
Surface	9.875	8.625	24	621	60/40 Pozmix	150	3%CC, 2%Ge, 1/4#/sxFS
Production	7.875	5.5	15.5	5196	AA2	150	Gas Block

MTPRC "B" #4-22 ACO-1 Supplemental (Sample & Log Tops)

SAMPLE TOPS

McCoy Petroleum Corp.

MTPRC 'B' #4-22

C S2 SE

660'FSL & 1320'FEL

Sec 22-30s-19w

KB: 2233'

	Depth	Datum
LaCompton B	4010	-1777
Queen Hill	4050	-1817
Heebner	4226	-1993
Toronto	4243	-2010
Douglas	4263	-2030
Brown Lime	4416	-2183
Lansing	4436	-2203
Lansing B	4458	-2225
Lansing F	4546	-2313
Lansing H	4608	-2375
Lansing J	4730	-2497
Stark	4762	-2529
Hushpuckney	4815	-2582
Marmaton	4914	-2681
Pawnee	4954	-2721
Cherokee	4990	-2757
Miss.	5071	-2838
Spergen Pors.	5106	-2873
Warsaw	5138	-2905
RTD	5200	-2967

LOG TOPS

McCoy Petroleum Corp.

MTPRC 'B' #4-22

C S2 SE

660'FSL & 1320'FEL

Sec 22-30s-19w

KB: 2233'

	Depth	Datum
LaCompton B	4010	-1777
Queen Hill	4048	-1815
Heebner	4225	-1992
Toronto	4243	-2010
Douglas	4258	-2025
Brown Lime	4416	-2183
Lansing	4437	-2204
Lansing B	4456	-2223
Lansing F	4548	-2315
Lansing H	4610	-2377
Lansing J	4728	-2495
Stark	4760	-2527
Hushpuckney	4812	-2579
Marmaton	4914	-2681
Pawnee	4953	-2720
Cherokee	4992	-2759
Miss.	5070	-2837
Spergen Pors.	5106	-2873
Warsaw	5138	-2905
LTD	5198	-2965



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

**Well Name:** MTPRC "B" # 4-22  
**Location:** C - S/2 - SE of Sec. 22 - T. 30 S. - R. 19 W.  
**License Number:** A.P.I. #15 - 097 - 21,793 - 00 - 00  
**Spud Date:** 06/07/2014  
**Surface Coordinates:** SPOT: 660' FSL & 1320' FEL

**Region:** IOWA CO., KS.  
**Drilling Completed:** 06/17/2014

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 2220'                      **K.B. Elevation (ft):** 2233'  
**Logged Interval (ft):** 621'                      **To:** 5198'                      **Total Depth (ft):** 5200'  
**Formation:** MISSISSIPPIAN 'WARSAW'  
**Type of Drilling Fluid:** CHEMICAL/POLYMER/GEL WITH MUD DISPLACEMENT @ 3687'.  
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

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

**GEOLOGIST**

**Name:** DAVID P. WILLIAMS, P.G., KS. LIC. # 88  
**Company:** DW ENERGY, LLC (DWE)  
**Address:** 312 N. BROADVIEW STREET  
WICHITA, KANSAS 67208

### Casing & Deviation Surveys:

**First Surface Casing String:** Spud at 2:45 pm on 06/07/14. Drilled 17-1/2" hole to 99'. Ran 2 joints of 48# ; 13-3/8" surface casing. Tallied 80', set at 95' KB. Cut Texas shoe. Cemented with 250 sks 60/40 POZ; 3% Cc, 1/4# CF. Cement did circulate. Plug down at 11:15 pm on 06/06/14. Basic Energy Services Cementing ticket #10881.

**Second Casing String:** Drilled 12-1/4" hole to 566'. Ran 6 joints of new 32# 10-3/4" surface casing. Tallied 270'. Set at 270' KB, 257' GL. Texas shoe cut on bottom joint. Tacked all collars. Tacked pins on bottom 4 and top 2 joints. Cemented with 170 sks ACON; blend. Then tailed with 150 sks 60/40 POZ; 2% CC ; 1/4# CF. Cement did not circulate. Plug down at 12:30 am on 06/09/14. Basic Energy Services ticket #1083. Temperature survey locates top of cement at 100'. Shoot (2) 1/4" perforations at 100'. Pump fresh water through perforations at a rate 4.42 bbl/min for 20 minutes (88 bbl) before water circulates Pump 150 sks common cement through perfs. Cement did not circulate. WOC 3.50 hours. Pump 400 sks common through perfs at 100' at 2 bbl/min and 250 PSI. Cement did circulate to pits. Final cementing job done at 8:45 pm 06/09/14. Basic Energy Services cementing ticket #1718-10827A.

**Third Casing String:** Drilled 9-7/8" hole to 626'. Ran 14 joints of new 24# 8-5/8" surface casing. Tallied 606.72'. Set at 621.22'. Texas shoe cut on bottom joint. Tacked all collars. Tacked pins on bottom 2 and top 2 joints. Cemented bottom with 150 sks 60/40 POZ; 3% cc; 2% Gel & 1/4# Floseal. Cement did not circulate. Plug down at 9:00 pm on 06/10/14. Basic Energy Services ticket #1718-10668.

**Deviation Survey's Taken:** @ 626' = 1/2 degree; @ 4938' = 1 1/4 degrees; @ 5124' = 3/4 degree;

### DSTs

~~DST # 1~~ Interval:4858'-4938'. Times: 5"-60"-90"-150"; Blow: IF=Weak/ 1". No Blow Pack. FF= BOB/12". No Blow Back During FSIP.

Recovery: 1640' GIP & 50' SOCM (> 1% O; 99% M)).

Pressures: IH=2419#; FH=2405#; IF=25-31#; FF=32-41#; ISIP=535#; FSIP=953#; TEMP.=112 degrees. F..

~~DST #2~~ Interval: 5080'- 5124'. Times:5"-60"-90"-120"; Blow: IF= Strong/BOB/45 Sec.. ISIP/Weak Blow Back/1/2". FF= BOB/2 Sec. & GTS @ 12" (See Gas Gauge Report). FSIP/BOB Blow Back.

Recovery: 430' TF: 70" GCM w/OS (21% G; 0% O; 79% M); 125' GOCWM (14% G; 14% O, 34% W & 38% M); 235' GM & OCW (20% G; 30% O; 32% W & 18% M).

Pressures: IH=2721#; FH=2480#; IF=42-59#; FF=46-146#; ISIP= 1477#; FSIP=1389#; TEMP.=120 degrees F.; API RW =.075 @ 83 degrees F.; CHL.= 90,000 Ppm..

FF GAS GAUGE: @12"=19 Mcf; @ 20"=34 Mcf; @ 30"=36 Mcf; @ 40"=37 Mcf;@ 50"=39 Mcf; @ 60"=39 Mcf; @ 70"=39 Mcf; @ 80"=39 Mcf; @ 90"=39 Mcf.

### Comments

After review of all geologic samples as examined, combined with the fluid and pressures results from the 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  
Evan Stone  
Zach Wiele

### ROCK TYPES

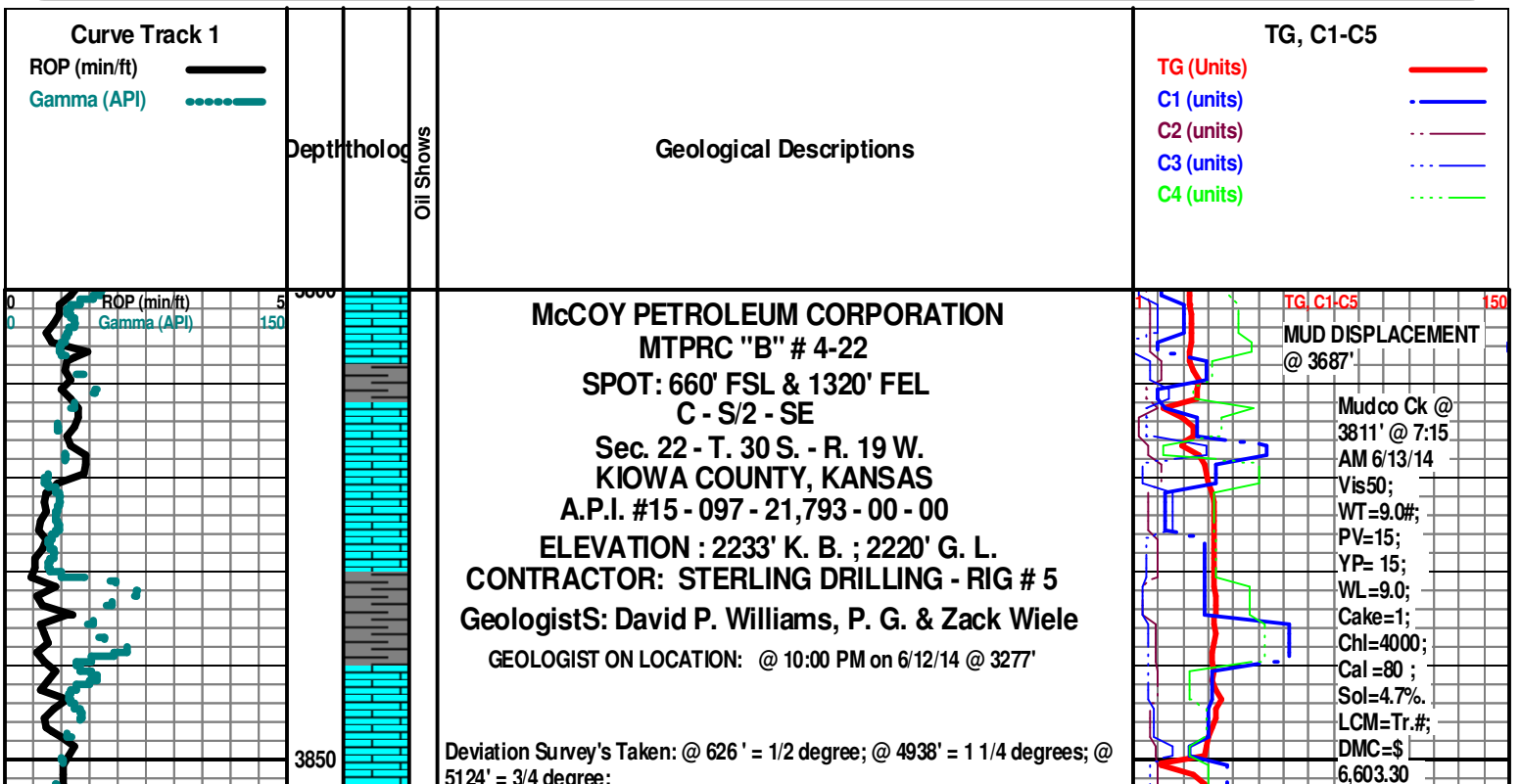
Anhy	Clyst	Gry sh	Mrlst	Shgy
Bent	Coal	Gyp	Red shale	Sltst
Brec	Congl	Igne	Salt	Ss
Carb sh	Dol	Lmst	Shale	Till
Cht	Grn sh	Meta	Shcol	

### ACCESSORIES

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

### OTHER SYMBOLS

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

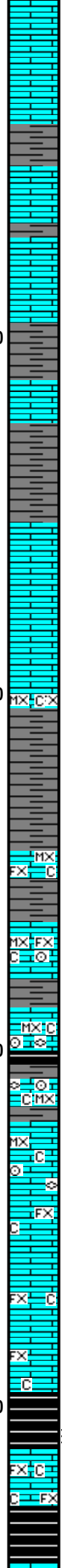
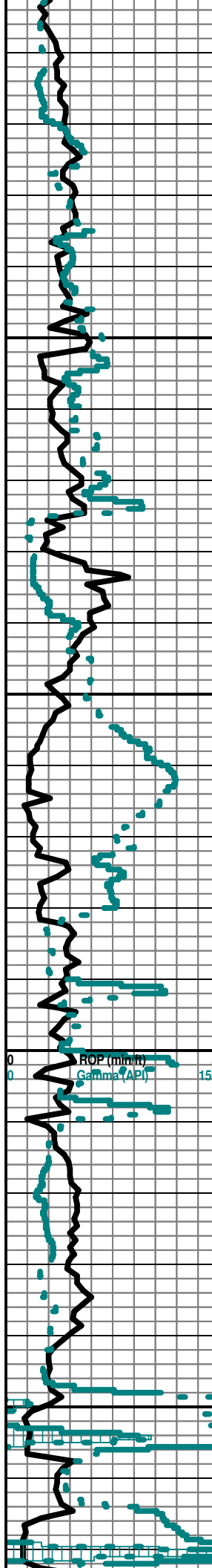


3900

3950

4000

4050



Note: All samples have been lagged to depth by calculated time.  
Begin 30' Kelly Down Sample Examination @ 4000'.

Ls Gry-Crm-Wht Fxn-Microxn Dns Micrite Chalky Sh Char-Gry Soft No Odor No Flor No Stn NS

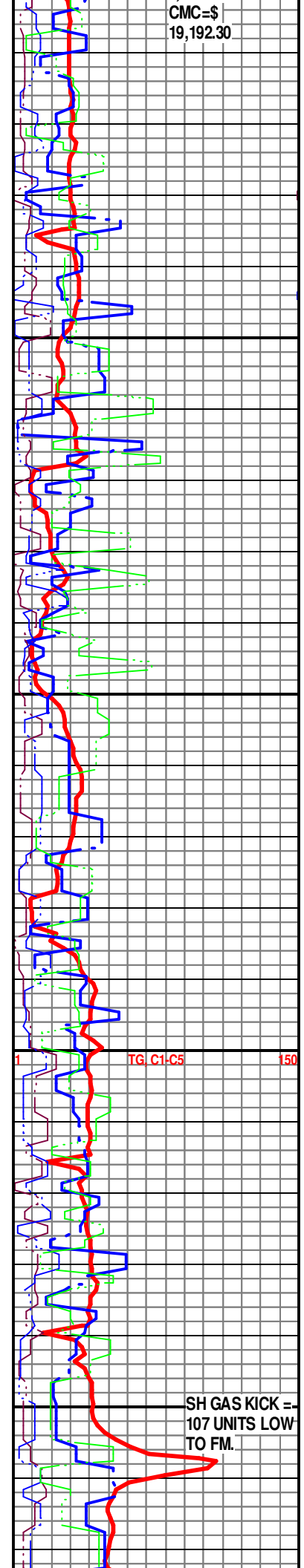
Ls Wht-Gry-Crm Fxn-Microxn Dns Micrite Fos (Crin) Chalky Sh Gry-Aqua Soft No Odor No Flor No Stn NS

**LECOMPTON "B" 4010' (-1777)**

Ls Wht-Gry-Crm Fxn-Microxn Dns Micrite Fos (Crin, Fuss) Chalky Sh Char-Gry-Aqua Soft-Fissil No Odor No Flor No Stn NS

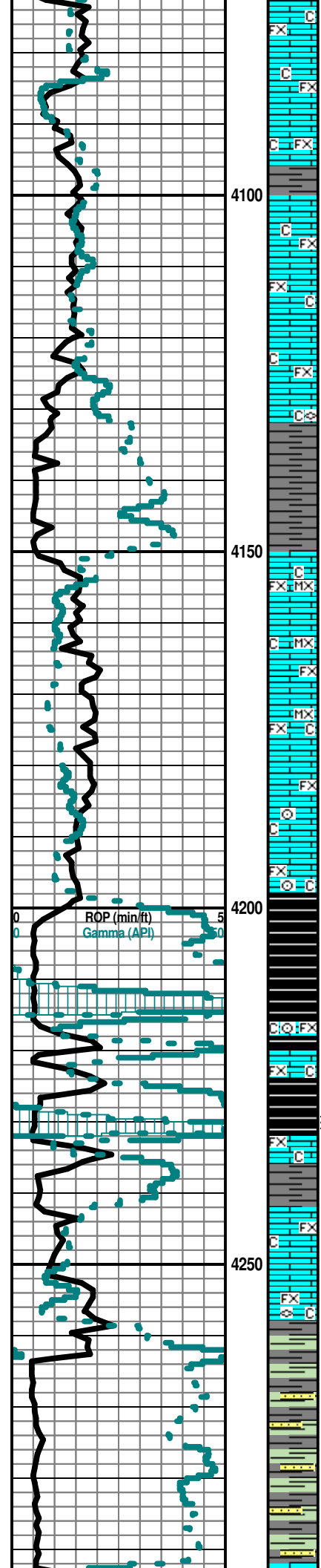
**QUEEN HILL SHALE 4048' (-1815)**

Sh Blk Carb-Char-Gry-Aqua Fissil-Soft Ls Wht-Crm Fxn Micrite Chalky No Odor No Flor No Stn NS



SH GAS KICK =- 107 UNITS LOW TO FM.





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

Sh Char-Gry Soft Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt Por Fos  
(Fuss, Gastro) Chalky No Odor No Flor No Stn NS

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

Sh Blk Carb-Char-Gry-Drk Gry Fissil (w/SG in Sh Blk Carb) Ls Wht-Crm  
FxIn-MicroxIn Micrite Grad Poor IxIn Pin-Pt Por Fos (Crin) Chalky No Odor  
No Flor No Stn

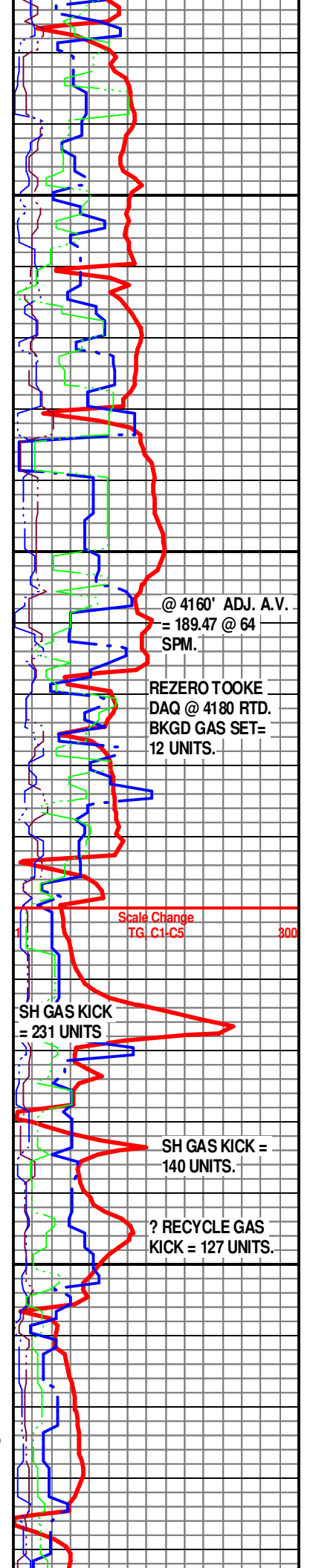
HEEBNER 4225' (-1992)

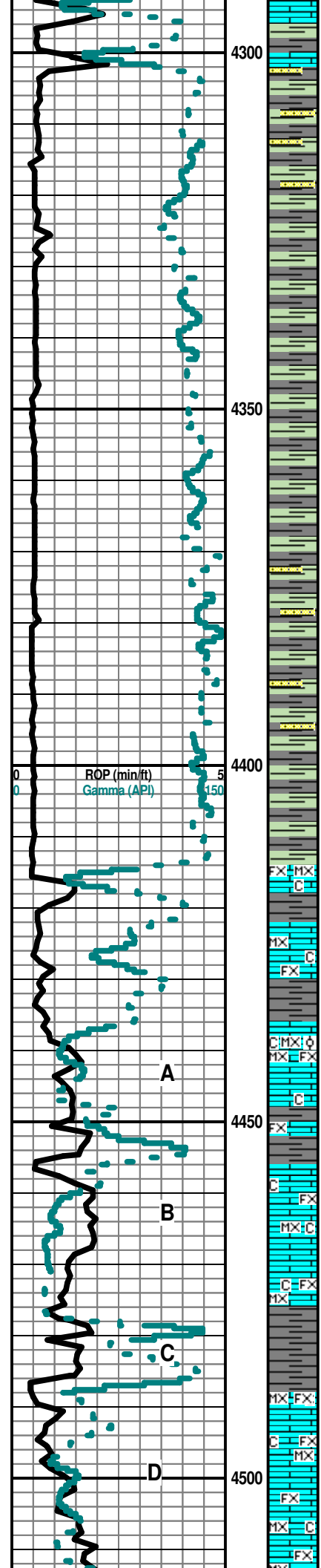
TORONTO 4243' (- 2010)

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

DOUGLAS 4258' (-2025)

Sh Char-Gry-Grn Fissil-Soft (Abd) Ls Wht-Crm FxIn Micrite Grad Poor IxIn  
Pin-Pt Por Qtz Ss Wht FGn Well Sort Sub Ang (w/CaCo3 Martix & Fos Carb  
Includ) Chalky No Odor No Flor No Stn NS





Sh Char-Gry-Grn Fissil-Soft (Abd) Ls Wht-Crm FxIn Micrite Grad Poor IxIn Pin-Pt Por Qtz Ss Wht FGn Well Sort Sub Ang (w/CaCo3 Martix & Fos Carb Inclus) Chalky No Odor No Flor No Stn NS

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

Sh Char-Gry-Grn Fissil-Soft Ls AA (w/Pyr Inclus) Qtz Ss Wht VFGrn Well Sort Sub Ang (w/ Carb Inclus) Poor IGran Por Friable Chalky No Odor No Flor No Stn NS

**IATAN (BROWN LIME) 4414' (- 2181)**

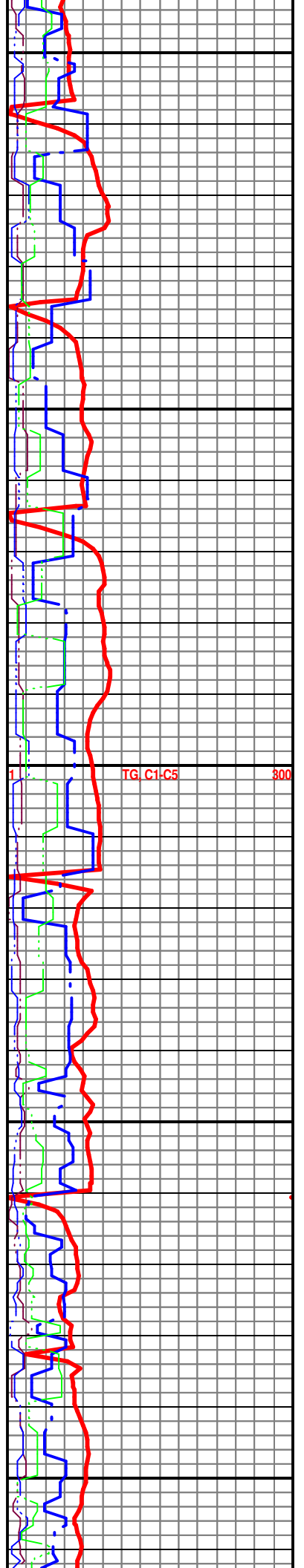
**LANSING 4437' (- 2204)**

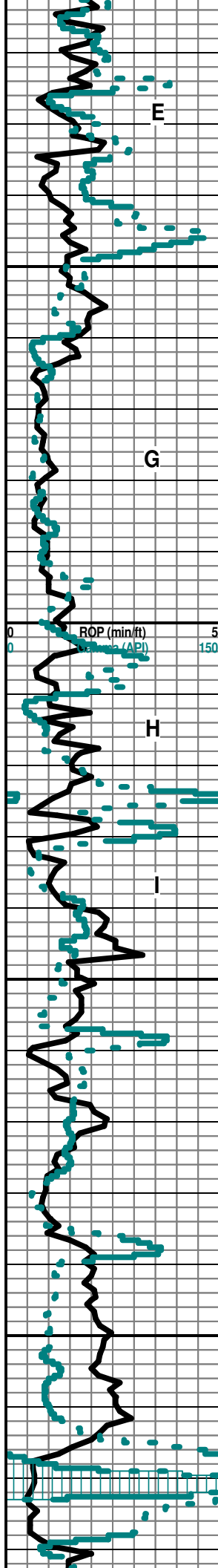
Ls Wht-Crm-Tan-Gry FxIn-MicroxIn Dns Micrite Grad Poor IxIn Por Grad Poor OOL Por (w/OOL in pl) No Dissolu Poor Develop Chalky Sh Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn NS

**LANSING "B" 4456' (- 2215)**

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

Sh Gry-Char-Grn Soft-Fissil Ls Wht-Crm-Tan-Gry FxIn-MicroxIn Dns Micrite





4550

4600

4650

4700

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

**LANSING "F" 4548' (- 2315)**

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

@ 4600' START 10' SAMPLE EXAMINATION (WET & DRY)

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

Ls Wht-Crm-Tan-Gry Fxln-Microxln Dns Micrite Grad Poor Ixln Por Fos (Crin) Chalky 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 Cht Gry Op Shp Vit Chalky Sh Gry-Char-Grn Soft-Fissil No Odor No Flor No Stn 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 Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan Microxln-Fxln Micritic No Vis Por Cht Gry Op Shp Vit Chalk (Abd) Sh Char-Gry-Grn-Aqua Fissil No Odor No Stn No Flor NS

**KANSAS CITY "H" (DRUM) 4810' (-2377)**

Ls Wht-Crm-Lt Tan Microxln-Fxln Micritic No Vis Por Cht Gry Op Shp Vit Chalk (V Abd) Sh Char-Gry-Grn-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan Microxln-Fxln Micritic No Vis Por Cht Tan Op Shp Vit Chalk (V Abd) Sh Char-Gry-Grn-Aqua-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan Microxln Micritic No Vis Por Cht Tan Op Shp Vit Chalk (V Abd) Fos (Crin) Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Tan Microxln Micritic No Vis Por Cht Gry-Drk Gry Op Shp Vit Chalk (V Abd) Fos (Crin) Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

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

Ls Wht-Crm-Lt Tan Microxln Micritic No Vis Por Cht Wht-Gry-Drk Gry (Banded) Op Shp Vit Chalk (Abd) Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Lt Tan Microxln Micritic No Vis Por Cht Gry-Drk Gry (Banded w/Fos Wht Includ) Op Shp Vit Chalk (Abd) Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Microxln-Fxln Mostly Micrite Grad Poor Pin-Pt Ixln Por Wht-Cht Gry Op Shp Vit (w/Fos Wht Crin Includ) Chalky Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

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

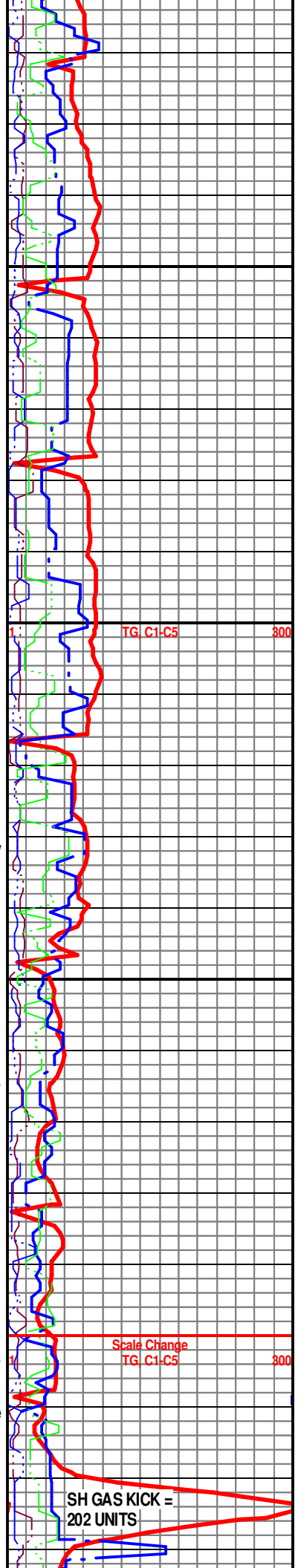
Ls Crm-Lt Tan-Wht-Gry Microxln-Fxln Mostly Micrite Poor Ixln Por Cht Wht-Gry Translu-Op Shp Vit Chalk (V Abd) Sh Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

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

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

**KANSAS CITY "J" (DENNIS) 4728' (- 2495)**

Ls Crm-Lt Tan-Wht Microxln-Fxln Mostly Micrite Poor Ixln Por Cht Wht-Gry



TG C1-C5

800

Scale Change  
TG C1-C5

800

SH GAS KICK =  
202 UNITS

Op Shp Vit Foss (Brach) Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Crm-Wht MicroIn Micrite Grad Poor Pin-Pt Ixln Por Cht Wht-Gry Op Shp Vit Chalk (Abd) Sh Blk Carb (w/SSG AA)-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Crm-Wht MicroIn Micrite Grad Poor-Fair Pin-Pt Ixln Por Cht Wht-Gry Op Shp Vit Chalky Sh Blk Carb (w/SSG AA)-Char-Gry Fissil No Odor No Stn No Flor NS

**STARK SHALE 4760' (- 2527)**

Sh Blk Carb-Char-Gry Fissil (w/SG) Abd in Blk Sh Ls Crm-Gry-Wht Fxln-MicroIn Micrite Grad Poor Pin-Pt Ixln Por No Vis-Por Chalky No Odor No Stn No Flor NS

**KANSAS CITY "K" SWOPE 4770' (-2537)**

Ls Crm-Gry-Wht Fxln-MicroIn Micrite Grad Poor Pin-Pt Ixln Por-No Vis Por Cht Wht-Gry (Banded) Op Shp Vit Chalky Fos (Crin) Sh Blk Carb- Char- Gry-Aqua (w/Pyr Inklus) Fissil No Odor No Stn No Flor NS

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

**HUSHPUCKNEY 4812' (- 2579)**

Sh Blk Carb-Char-Gry-Aqua Fissil Ls Wht-Gry-Lt Tan Fxln Micrite Dns Grad Poor Pin-Pt Ixln Por Cht Wht-Tan (w/Fos Inklus) Transp- Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Gry-Lt Tan Fxln Micrite Dns Grad Poor Pin-Pt Ixln Por Chalk Sh Char-Gry (Abd)-Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

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

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

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

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

Sh Blk Carb-Char-Gry-Lt Aqua Carb Fissil Ls Gry-Crm-Wht MicroIn Dns Micrite Chalky 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 "B" 4914' (- 2681)**

30" CFS @ 4938' Ls Wht-Crm-Lt Tan Fxln Med-Good Pin-Pt Ixln Por (w/GSG) Good Even Flor (15% in Tray) Med-Good Odor Lt Brn Stn (w/FSFO InTray) V Soft Fos (Spicule) GSG & FSO

60" CFS @ 4938' Ls Wht-Crm-Lt Tan Fxln Med-Good Pin-Pt Ixln Por (w/GSG) Good Even Flor (10% in Tray) Med Odor Lt Brn Stn (w/FSFO InTray) V Soft Fos (Crin, Fuss, Spicule) GSG & FSO

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

**PAWNEE 4953' (- 2720)**

SH GAS KICK RECYCLE = 194 UNITS.

**DST # 1**

Interval: 4858'-4938'.  
Times: 5'-60"-90"-150";  
Blow: IF=Weak/ 1". No Blow Pack. FF= BOB/12".  
No Blow Back During FSP.

Recovery: 1640' GIP & 50' SOCM (> 1% O; 99% M).

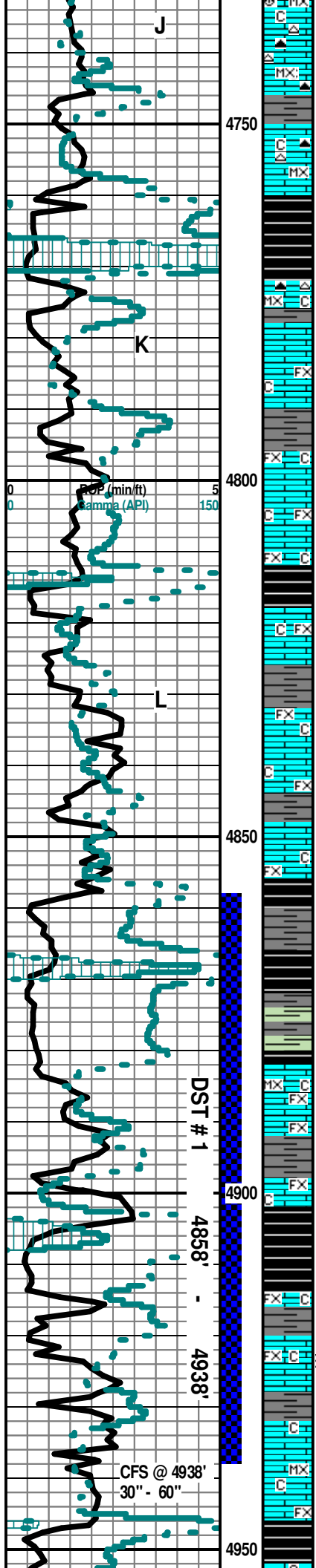
Pressures:

- IH = 2419#;
- FH = 2405#;
- IF = 25-31#;
- FF = 32-41#;
- ISIP = 535#;
- FSP = 953#;
- TEMP = 112 degrees. F.

Mudco Ck @ 4869' @ 7:15 AM 6/14/14  
Vis=52;  
WT=9.5#;  
PV=15;  
YP= 16;  
WL=9.2;  
Cake=1;  
Chl=5000;  
Cal =80;  
Sol=8.2%  
LCM= 2#;  
DMC=\$ 1,586.35  
CMC=\$ 21,500.95

Scale Change TG C1C5 1500

GAS KICK = 1195 UNITS. CHANGE SAMPLE FLOW FOR GAS KICK- 500 UNITS (SPL. FLOW=.5 & DILUTION FLOW=1.0)





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

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

**FORT SCOTT 4984' (- 2751)**

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

**CHEROKEE SHALE 4992' (- 2759)**

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

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

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

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

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

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

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

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

**MISSISSIPPIAN 5070' (- 2837)**

30" CFS @ 5100' Ls Wht-Crm-Lt Tan MicroXn-FxIn Micritic Grad Poor-Fair Pin-Pt IxIn Por (w/SSG) Tr Scat Gillsontic "Dead" Stn (Drk Blk) Cht Wht- Peach- Org Trip Op Shp Vit Qtz Ss Lt Brn-Wht (w/Cht Includ (Org-Peach-Wht) Ang-Sub Ang Fair Sort (w/CaCo3 Matrix) & FSG (? Mrw) Chalky Sh Varicolored Char-Gry-Drab Grn-Aqua-Olive Soft-Fissil Faint ? Odor Sli Flor (Lt Grn) Sli SG

60" CFS @ 5100' Ls Wht-Crm-Lt Tan MicroXn-FxIn Micritic Grad Poor-Fair Pin-Pt IxIn Por (w/SSG) Tr Scat Gillsontic "Dead" Stn (Drk Blk) Cht Wht-Peach-Org Trip Op Shp Vit Qtz Ss Lt Brn-Wht (w/Cht Includ (Org-Peach-Wht) Ang-Sub Ang Fair Sort (w/CaCo3 Matrix) & FSG (? Mrw) Chalky Pyr Mass Dolo Crm-Tab FxIn Fair IxIn Por ? Lt Brn Stn Sh Varicolored Char-Gry-Drab Grn-Aqua-Olive Soft-Fissil Faint ? Odor Sli Flor (Lt Grn) Sli SG

**SALEM (SPERGEN) 5100' (- 2867)**

**SALEM (SPERGEN) Ø 5106' (- 2873)**

75" CFS @ 5113' Dolo/Ls Tan-Crm-Gry FxIn Med-Good Pin-Pt IxIn "Salt & Pepper" Sucrosic Por (w/GSG & Tr SSO) (w/Gillsontic Drk Blk Residue & Glacu & Pyr Includ) Brittle Good Odor (Both Gas & Oil Do Flor Lt Grn & Oil is Lt Brn/Clear) Qtz Ss Lt Brn-Wht (w/Cht Includ (Org-Peach-Wht) Ang-Sub Ang Fair Sort (w/CaCo3 Matrix) & FSG (? Mrw) Cht Trip AA (w/SSG) Fair Scatt Stn Drk Blk Med Flor Med-Good SG & SSO

75" CFS @ 5124' Dolo/Ls Gry-Tan-Crm-FxIn Med-Good Pin-Pt IxIn "Salt & Pepper" Grad Small Vug Sucrosic Por (w/GSG & Tr FO) (w/Gillsontic Drk Blk Residue Pyr Mass Brittle Med-Good Odor (Both Gas & Oil Do Flor Lt Grn & Oil is Lt Brn/Clear) Cht Trip AA (w/SSG) Fair Scatt Stn Drk Blk Med Flor Med-Good SG & SFO

NOTE: GEOLOGIST'S EVAN STONE & ZACH WIELE REPLACED DAVID P. WILLIAMS @ 1:30 PM ON 6/16/14 DUE TO RIG SCHEDULE CONFLICT.

**MISS. WARSAW 5138' (- 2905)**

Dolo Tan-Gry-Crm FxIn Dns Micrite Poor Pin-Pt IxIn Por (Trc Scat Vug Por) Trc Glacu Includ Cht Drk Gry Translu-Op Shp Sh Gry-Grn- Red Fissil No Odor No Flor No Stn NS

Dolo Gry-Crm FxIn-MicroXn Dns Micritic Poor-Fair Pin-Pt IxIn Por Trc Scat Vug Por) Glacu Includ Sh Gry-Grn-Red Fissil No Flor No Stn NS

Dolo Gry-Crm FxIn-MicroXn Dns Micritic Poor-Fair Pin-Pt IxIn Por Glacu Includ Sh Gry-Grn Fissil No Flor No Stn NS

Mudco Ck @ 5100' @ 12:00 PM 6/15/14 Vis 56; WT=9.3#; PV=15; YP=26; WL=9.6; Cake=1; Chl=6000; Cal =80; Sol=6.8%; LCM= 3#; DMC=\$ 1,857.05 CMC=\$ 23,358.00

~DST #2~ Interval: 5080'-5124'. Times: 5' 60" 90" 120". Blow: IF=Strong/ BOB/45 Sec. ISIP/Weak Blow Back 1/2". FF= BOB/2 Sec. & GTS @ 12" (See Gas Gauge Report). FSP/BOB Blow Back.

Recovery: 430' TF: 70" GCM w/Os (21% G; 0% O; 79% M); 125' GOCWM (14% G; 14% O; 34% W & 38% M); 235' GM & OCW (20% G; 30% O; 32% W & 18% M). Pressures: IH = 2721#; FH = 2480#; IF = 42-59#; FF = 46-146#; ISIP = 1477#; FSP = 1389#; TEMP = 120 degrees F. API RW = .075 @ 83 degrees F.; CHL = 90,000 Ppm.

FF GAS GAUGE: @ 12" = 19 Mcf; @ 20" = 34 Mcf; @ 30" = 36 Mcf; @ 40" = 37 Mcf; @ 50" = 39 Mcf; @ 60" = 39 Mcf; @ 70" = 39 Mcf; @ 80" = 39 Mcf; @ 90" = 39 Mcf.

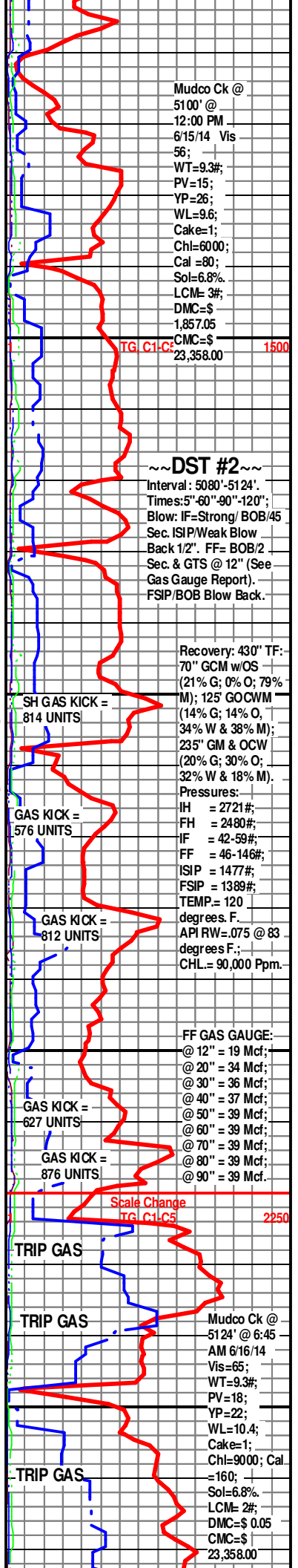
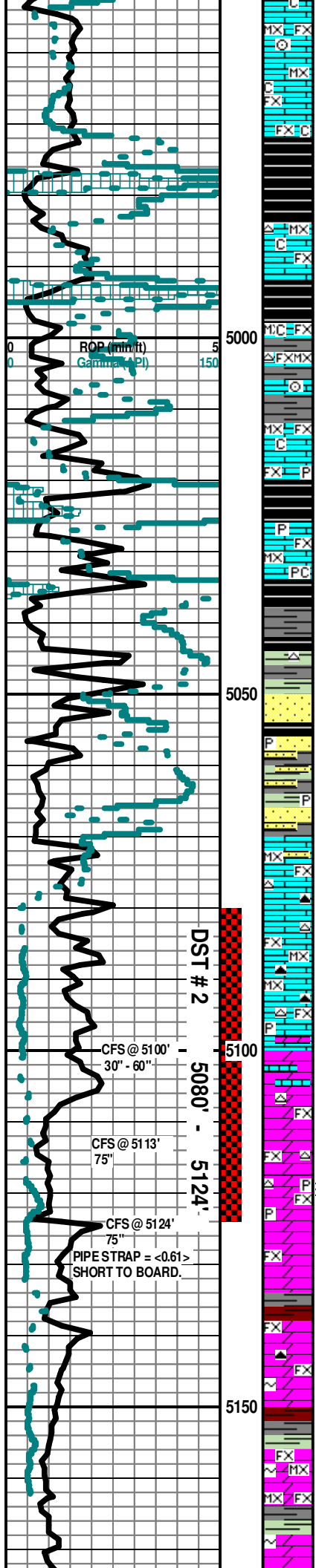
Scale Change TG C1/C5 2250

TRIP GAS

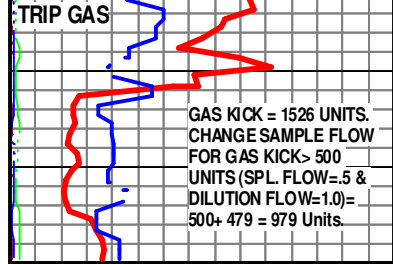
TRIP GAS

TRIP GAS

Mudco Ck @ 5124' @ 6:45 AM 6/16/14 Vis=65; WT=9.3#; PV=18; YP=22; WL=10.4; Cake=1; Chl=9000; Cal =160; Sol=6.8%; LCM= 2#; DMC=\$ 0.05 CMC=\$ 23,358.00



~~ No TD Circulation Samples Caught - Rig Crew Miscommunication During Tour Change.



0 CFS @ 5200' 5  
ROP (30" - 60" 150  
Gamma (API)  
R.T.D. = 5200' (-2967)  
L.T.D. = 5198' (-2965)

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

1 TG C1:C5 2250

Geologist's Left Location at 8:40 PM on 6/16/2014

5200  
5250  
5300



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E. Central  
Wichita KS 67206

ATTN: Dave Williams

### **MTPRC B #4-22**

### **22-30s-19w Kiowa,KS**

Start Date: 2014.06.14 @ 17:38:19

End Date: 2014.06.15 @ 03:55:49

Job Ticket #: 54219                      DST #: 1

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

Printed: 2014.06.17 @ 09:00:43



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54219

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.14 @ 17:38:19

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:04

Time Test Ended: 03:55:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 4858.00 ft (KB) To 4938.00 ft (KB) (TVD)**

Reference Elevations: 2233.00 ft (KB)

Total Depth: 4938.00 ft (KB) (TVD)

2220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8352 Outside**

Press@RunDepth: 41.46 psig @ 4859.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.14

End Date:

2014.06.15

Last Calib.:

2014.06.15

Start Time:

17:38:24

End Time:

03:55:49

Time On Btm:

2014.06.14 @ 20:21:04

Time Off Btm:

2014.06.15 @ 01:35:04

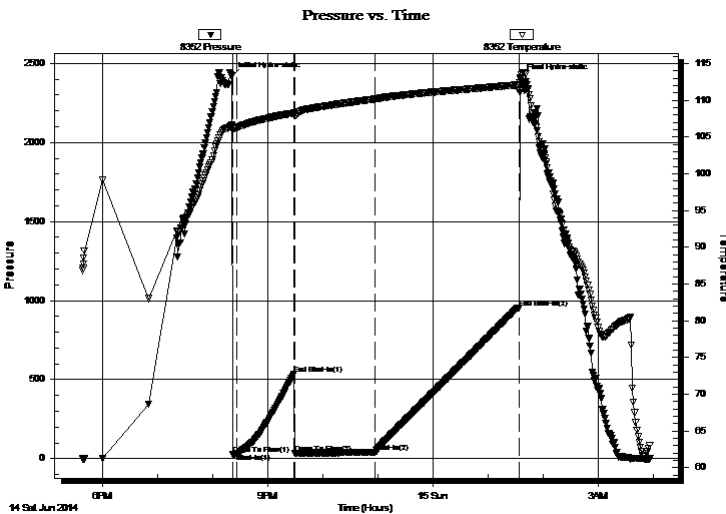
TEST COMMENT: IF:Weak blow . 1/2 - 1".

IS:No blow .

FF:Strong blow . B.O.B. in 12 mins.

FS:No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.20	106.63	Initial Hydro-static
1	25.34	105.91	Open To Flow (1)
6	31.48	106.30	Shut-In(1)
68	534.60	108.26	End Shut-In(1)
69	32.49	108.17	Open To Flow (2)
156	41.46	110.19	Shut-In(2)
313	952.61	112.10	End Shut-In(2)
314	2405.43	113.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	SOCM <1% 99+%m	0.25
0.00	1640 ft.of GIP	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54219

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.14 @ 17:38:19

## Tool Information

Drill Pipe:	Length: 4553.00 ft	Diameter: 3.80 inches	Volume: 63.87 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 65.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4858.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			4831.00	
Shut In Tool	5.00			4836.00	
Hydraulic tool	5.00			4841.00	
Jars	5.00			4846.00	
Safety Joint	3.00			4849.00	
Packer	4.00			4853.00	28.00 Bottom Of Top Packer
Packer	5.00			4858.00	
Stubb	1.00			4859.00	
Recorder	0.00	8352	Outside	4859.00	
Recorder	0.00	8370	Inside	4859.00	
Perforations	4.00			4863.00	
Blank Spacing	64.00			4927.00	
Perforations	6.00			4933.00	
Bullnose	5.00			4938.00	80.00 Bottom Packers & Anchor

**Total Tool Length: 108.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54219

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.14 @ 17:38:19

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

5000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	SOCM <1%o 99+%m	0.246
0.00	1640 ft.of GIP	0.000

Total Length: 50.00 ft      Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

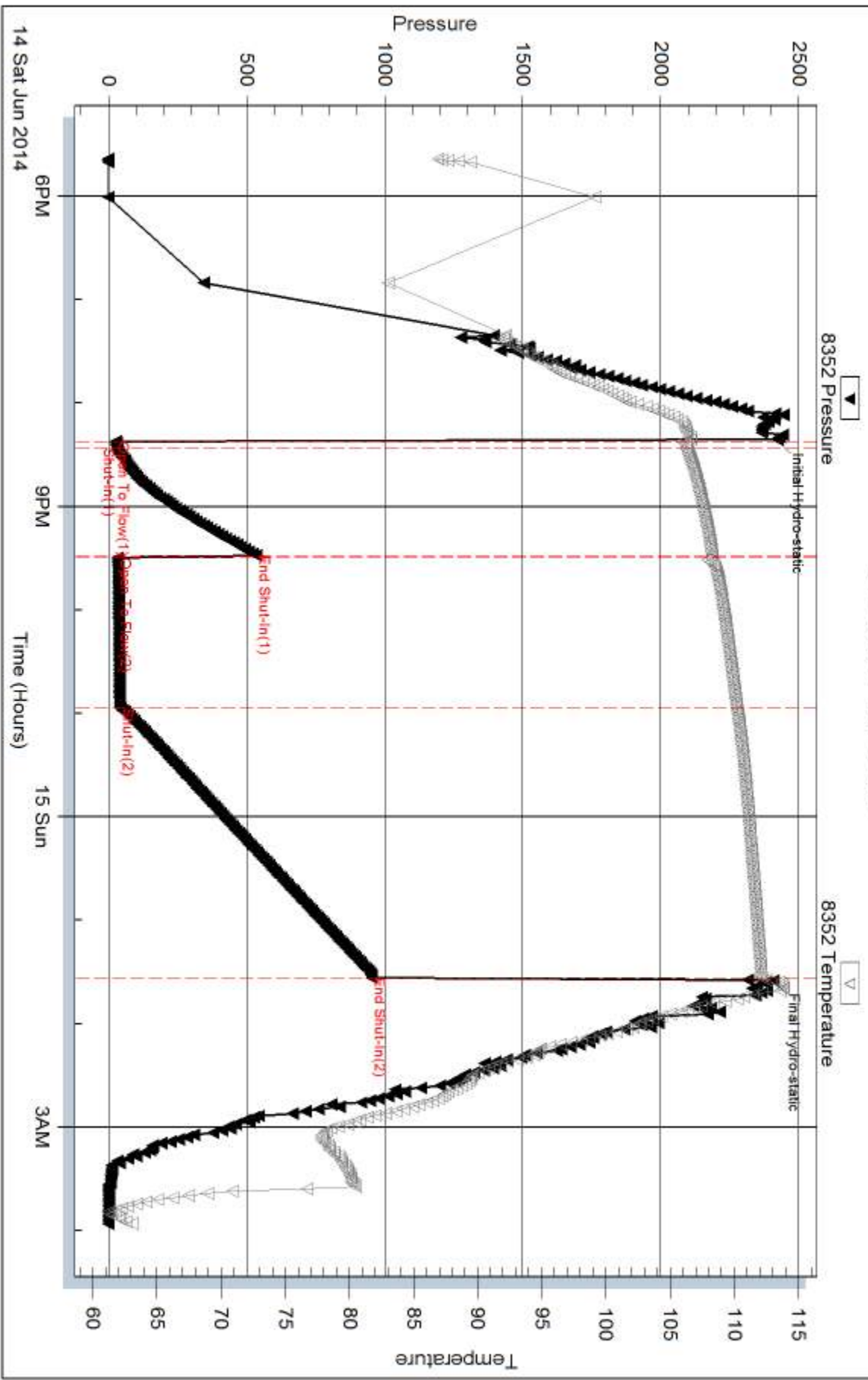
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



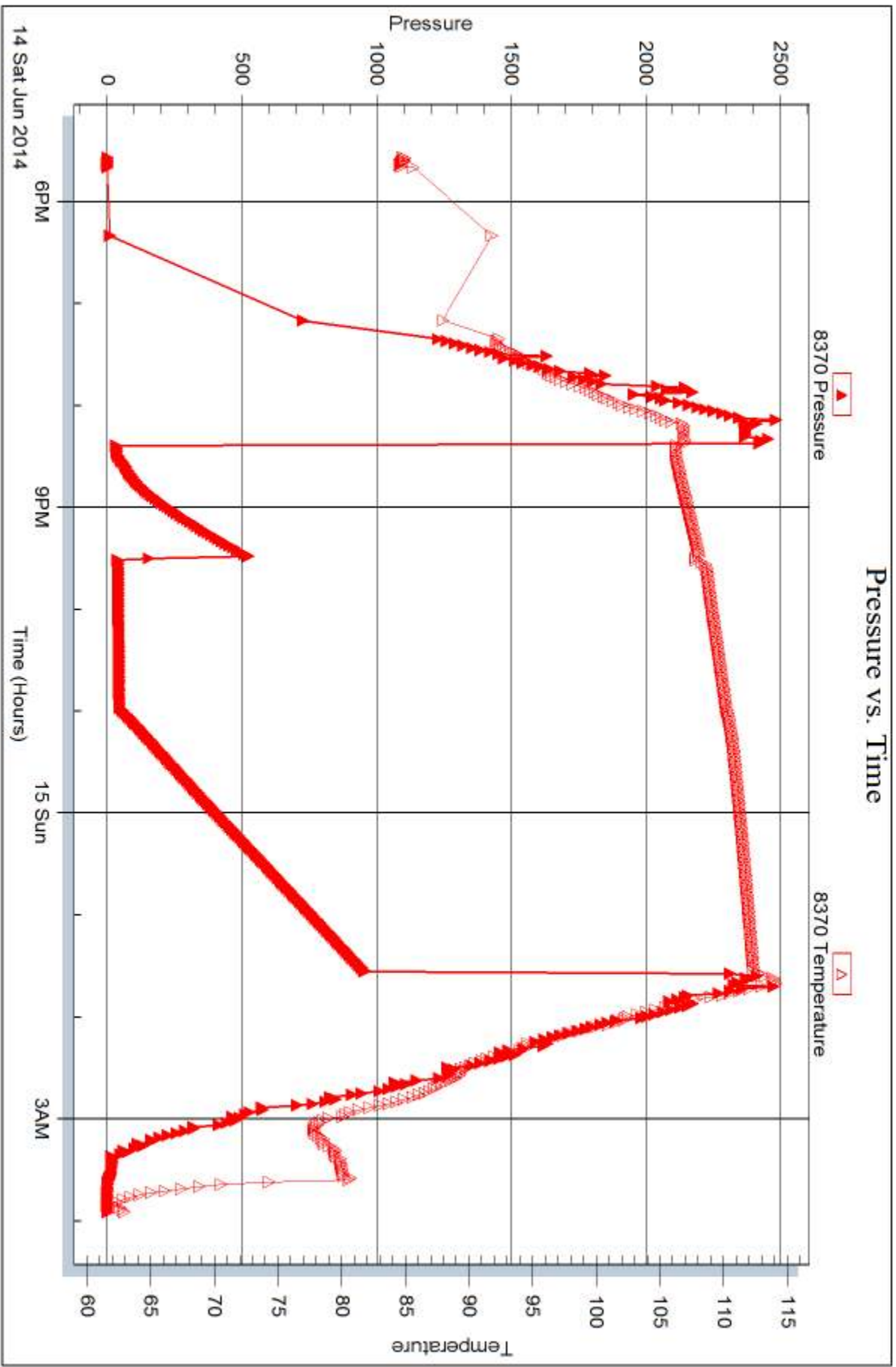
Serial #: 8370

Inside

McCoy Petroleum Corp.

MTRRC B #4-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54219

Printed: 2014.06.17 @ 09:00:45



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E. Central  
Wichita KS 67206

ATTN: Dave Williams

### **MTPRC B #4-22**

### **22-30s-19w Kiowa,KS**

Start Date: 2014.06.15 @ 19:49:54

End Date: 2014.06.16 @ 05:53:09

Job Ticket #: 54220                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.17 @ 08:57:18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.15 @ 19:49:54

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:26:39

Time Test Ended: 05:53:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 5080.00 ft (KB) To 5124.00 ft (KB) (TVD)**

Reference Elevations: 2233.00 ft (KB)

Total Depth: 5124.00 ft (KB) (TVD)

2220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8352 Outside**

Press@RunDepth: 146.30 psig @ 5081.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.15

End Date:

2014.06.16

Last Calib.:

2014.06.16

Start Time: 19:49:59

End Time:

05:53:09

Time On Btm:

2014.06.15 @ 22:24:54

Time Off Btm:

2014.06.16 @ 03:08:24

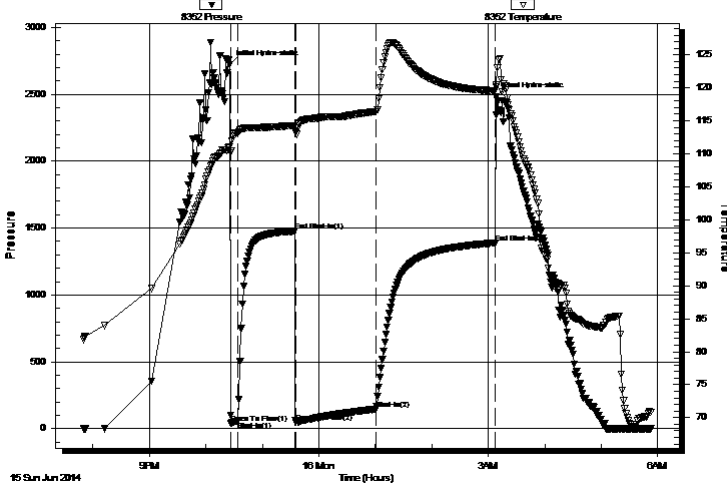
TEST COMMENT: IF:Strong blow . B.O.B. in 45 secs.

IS:Weak blow . 1/2"

FF:Strong blow . B.OB. in 2 - 3 secs. GTS in 12 mins.(see gas flow report)

FS:Stron blow . B.O.B.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2721.41	111.07	Initial Hydro-static
2	41.98	110.47	Open To Flow (1)
10	58.74	113.19	Shut-In(1)
70	1476.76	114.30	End Shut-In(1)
71	46.07	113.35	Open To Flow (2)
156	146.30	116.41	Shut-In(2)
283	1389.28	119.55	End Shut-In(2)
284	2480.35	120.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
235.00	GM&OCW 20%g 18%m 30%o 32%w	1.16
125.00	GOCWM 14%g 14%o 34%w 38%m	1.16
70.00	GCM/w o specs 21%g 79%m	0.98

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.25	10.00	38.71
Max. Gas Rate	0.25	10.00	38.71

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.15 @ 19:49:54

## Tool Information

Drill Pipe:	Length: 4777.00 ft	Diameter: 3.80 inches	Volume: 67.01 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 68.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5080.00 ft			Final 87500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 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			5053.00	
Shut In Tool	5.00			5058.00	
Hydraulic tool	5.00			5063.00	
Jars	5.00			5068.00	
Safety Joint	3.00			5071.00	
Packer	4.00			5075.00	28.00 Bottom Of Top Packer
Packer	5.00			5080.00	
Stubb	1.00			5081.00	
Recorder	0.00	8352	Outside	5081.00	
Recorder	0.00	8370	Inside	5081.00	
Perforations	4.00			5085.00	
Blank Spacing	32.00			5117.00	
Perforations	2.00			5119.00	
Bullnose	5.00			5124.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.15 @ 19:49:54

### 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:

90000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
235.00	GM&OCW 20%g 18%m 30%o 32%w	1.156
125.00	GOCWM 14%g 14%o 34%w 38%m	1.161
70.00	GCM /w o specs 21%g 79%m	0.982

Total Length: 430.00 ft Total Volume: 3.299 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Rw .075 ohms@83 deg



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

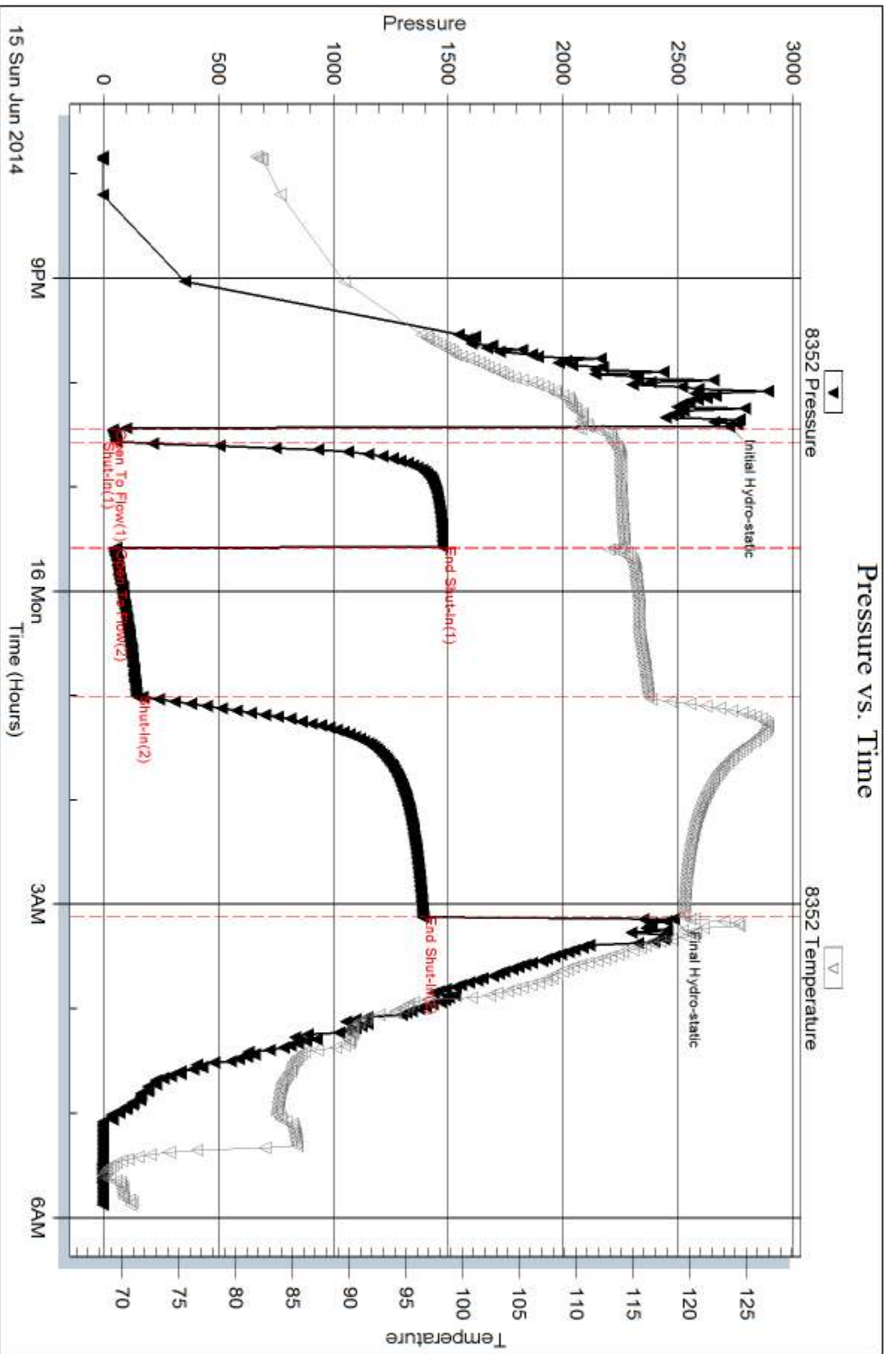
Test Start: 2014.06.15 @ 19:49:54

### Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.25	7.00	33.95
2	30	0.25	8.00	35.54
2	40	0.25	9.00	37.12
2	50	0.25	10.00	38.71
2	60	0.25	10.00	38.71
2	70	0.25	10.00	38.71
2	80	0.25	10.00	38.71
2	90	0.25	10.00	38.71



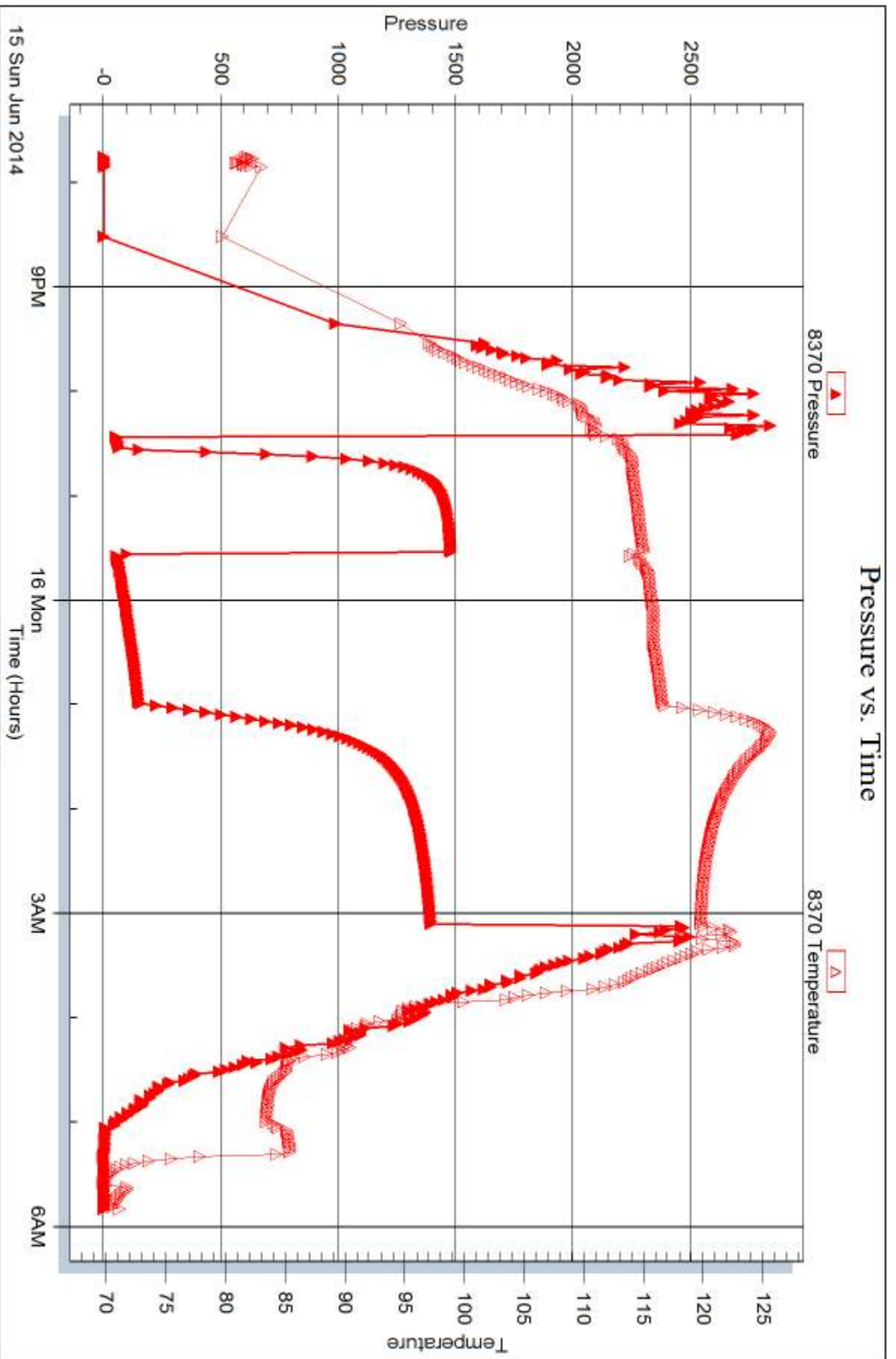
Serial #: 8370

Inside

McCoy Petroleum Corp.

MTRRC B #4-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54220

Printed: 2014.06.17 @ 08:57:19



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54219

4/10

Well Name & No. MTPRC "B" # 4-22 Test No. 1 Date 6-14-14  
 Company McCoy Petroleum Corp. Elevation 2293 KB 2230 GL  
 Address 9342 E. CENTRAL, WICHITA Ks. 67206  
 Co. Rep / Geo. DAVE WILLIAMS Rig STERLING DRIG. #5  
 Location: Sec. 22 Twp. 30S Rge. 19W Co. KIOWA State Ks.

Interval Tested 4858 - 4938' Zone Tested MARMATON  
 Anchor Length 80' Drill Pipe Run 4553' Mud Wt. 9.5  
 Top Packer Depth 4853' Drill Collars Run 300' Vis 52  
 Bottom Packer Depth 4858' Wt. Pipe Run 0 WL 9.2 cc  
 Total Depth 4938' Chlorides 5,000 ppm System LCM 2 #  
 Blow Description IF: Weak blow. 1/2 - 1". IST: No blow.

FF: Strong blow. B.O.B. in 12 mins. FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1640</u>	<u>Gas in pipe</u>				
<u>50</u>	<u>SOEM</u>	<u>&lt;1</u>		<u>99+</u>	

Rec Total 50 Fluid BHT 1120 Gravity N/A API RW NC. @ — °F Chlorides 5000 ppm  
 (A) Initial Hydrostatic 2419  Test 1250 T-On Location 1645  
 (B) First Initial Flow 25  Jars 250 T-Started 1738  
 (C) First Final Flow 31  Safety Joint 75 T-Open 2022  
 (D) Initial Shut-In 535  Circ Sub \_\_\_\_\_ T-Pulled 0133  
 (E) Second Initial Flow 32  Hourly Standby 61 T-Out 0355  
 (F) Second Final Flow 41  Mileage 1067 164.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 953  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2405  Straddle \_\_\_\_\_

Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 5 Sub Total 0  
 Initial Shut-In 60 Total 1739.30  
 Final Flow 90 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 150 ~~120~~

Approved By 30 MINS. WAITING ON STORM, Dave Williams Our Representative Gary Swoboda

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





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54220

4/10

Well Name & No. MIPRC B #4-22 Test No. 2 Date 6-15-14  
 Company McCoy Petr. Corp. Elevation 2233 KB 2220 GL  
 Address 9342 E. CENTRAL, WICHITA KS. 67206  
 Co. Rep / Geo. DAVE WILLIAMS Rig STERLING DRILL #5  
 Location: Sec. 22 Twp. 30<sup>S</sup> Rge. 19W Co. KIOWA State KS.

Interval Tested 5080 - 5124' Zone Tested MISS.  
 Anchor Length 44' Drill Pipe Run 4777' Mud Wt. 9.2  
 Top Packer Depth 5075' Drill Collars Run 300' Vis 57  
 Bottom Packer Depth 5080' Wt. Pipe Run 0 WL 9.6cc  
 Total Depth 5124' Chlorides 6,000 ppm System LCM 2#

Blow Description IF: Strong blow. B.O.B. in 4.5 sec. ISI: Weak blow. 1/2"

FF: Strong blow. B.O.B. in 2-3 sec. GTS in 12 mins. (see gas flow report) FSI: Strong blow. B.O.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>GCM/WOSPES</u>	<u>21</u>		<u>79</u>	
<u>125</u>	<u>GOCWM</u>	<u>14</u>	<u>14</u>	<u>34</u>	<u>38</u>
<u>235</u>	<u>GM EOCW</u>	<u>20</u>	<u>30</u>	<u>32</u>	<u>18</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 430 Fluid BHT Gravity N/A API RW .025 @ 83° F Chlorides 90,000 ppm

(A) Initial Hydrostatic 2721  Test 1450 T-On Location 1909  
 (B) First Initial Flow 42  Jars 250 T-Started 1949  
 (C) First Final Flow 59  Safety Joint 75 T-Open 2226  
 (D) Initial Shut-In 1477  Circ Sub T-Pulled 0306  
 (E) Second Initial Flow 46  Hourly Standby T-Out 0553  
 (F) Second Final Flow 146  Mileage 100A 164.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 1389  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2480  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 5  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Ruined Packer \_\_\_\_\_  
 Final Flow 90  Extra Copies \_\_\_\_\_  
 Final Shut-In 120 Sub Total 0  
 Total 1839.30  
 MP/DST Disc \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]  
 Sub Total 1839.30

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.





Customer <i>McCoy Pat</i>	Lease No. <i>10821</i>	Date <i>06-06-14</i>	
Lease <i>MTPRC 6-4-22</i>	Well # <i>13 3/4</i>		
Field Order # <i>10821</i>	Station <i>HRA TT 105</i>	Casing <i>13 3/4</i>	Depth <i>75</i>
Type Job <i>CNW 13 3/4 Condensate</i>	Formation	County <i>Kiowa</i>	State <i>KS</i>
		Legal Description <i>22-30-19</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>13 3/4</i>							5 Min.	
Depth	Depth	From	To	Pre Pad	Max			
<i>75</i>								
Volume	Volume	From	To	Pad	Min		10 Min.	
<i>71</i>								
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
<i>700</i>								
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
<i>same</i>								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
<i>85</i>								

Customer Representative \_\_\_\_\_ Station Manager *DAVE SOFT* Treater *White*

Service Units	<i>37900</i>	<i>19889</i>	<i>19843</i>	<i>19831</i>	<i>19862</i>				
Driver Names	<i>Sullivan</i>	<i>Endrey</i>		<i>1,650</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:15</i>					<i>on loc. Soft, neat</i>
					<i>Run 13 3/4 csg.</i>
					<i>Casing on bottom</i>
					<i>Hook 14' Break circ</i>
<i>10:50</i>				<i>3</i>	<i>ft spud</i>
				<i>4</i>	<i>ft Mix w. cut 250 st Com 5% cc 1/4 ct</i>
			<i>53</i>		<i>cut mixed</i>
				<i>3</i>	<i>ft disp</i>
<i>11:30</i>	<i>700</i>		<i>11</i>		<i>plug closed</i>
					<i>1 cut to cell no</i>
					<i>Job complete</i>
					<i>Thank you</i>



Customer <i>McCoy PET. CORP.</i>	Lease No.	Date <i>6-9-2014</i>	
Lease <i>MTPRC 'B'</i>	Well # <i>4-22</i>		
Field Order # <i>10227A</i>	Station <i>PRATI, Ks.</i>	Casing <i>10 3/4"</i>	Depth <i>100'</i>
Type Job <i>CNW - RAISE CMT ON 10 3/4"</i>	Formation	County <i>KIOWA</i>	State <i>Ks.</i>
		Legal Description <i>22-30-19</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>10 3/4"</i>	Tubing Size	Shots/Ft <i>2/100</i>	<i>CMT-</i>	Acid <i>150SKS. COMMON</i>		RATE	PRESS	ISIP
Depth <i>PERFS @ 100</i>	Depth	From	To	Pre Pad <i>@ 1.18 CUFT</i>	Max			5 Min.
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <i>DAVE OHLER</i>	Station Manager <i>K. GORDLEY</i>	Treater <i>K. LESLEY</i>
Service Units <i>70140 19889 19843 70959 19918</i>		
Driver Names <i>LESLEY MARQUEZ — JAMES ANTHONY</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:00PM</i>					<i>ON LOCATION! - SAFETY MEETING</i>
<i>12:10PM</i>					<i>HOOK UP TO 10 3/4" S.P.</i>
<i>12:15PM</i>			<i>20</i>	<i>4</i>	<i>BREAK CIRC. W/ PUMP TRUCK</i>
<i>12:30PM</i>	<i>400</i>		<i>15.75</i>	<i>4</i>	<i>MIX 75 SKS. COMMON @ 15.6 #/GAL</i>
<i>12:35PM</i>	<i>400</i>		<i>8</i>	<i>4</i>	<i>CLOSE IN AT VALVE ON 10 3/4"</i>
<i>1:45PM</i>	<i>0</i>		<i>9</i>	<i>3</i>	<i>PUMP 40SKS. IN CELLAR BETWEEN PIPES</i>
<i>2:00PM</i>					<i>SHUT DOWN 30MIN.</i>
<i>2:30PM</i>			<i>7</i>	<i>3</i>	<i>PUMP 35SKS. IN CELLAR / NO CMT. TO SURFAC.</i>
<i>3:00PM</i>					<i>SEND B.T. FOR MORE CMT. = 400SKS.</i>
<i>5:40PM</i>	<i>100</i>		<i>21</i>	<i>1.5</i>	<i>PUMP 100 SKS DOWN 10 3/4" THRU PERFS</i>
			<i>6</i>	<i>1.5</i>	<i>START DISPLACEMENT</i>
<i>7:10PM</i>	<i>50</i>		<i>.5</i>	<i>.5</i>	<i>TRIED TO PSI UP PERFS / WAIT 1HR</i>
<i>8:10PM</i>	<i>100</i>		<i>31.5</i>	<i>2</i>	<i>MIX 150 SKS.</i>
<i>8:45PM</i>	<i>200</i>		<i>52.5</i>	<i>2.5</i>	<i>MIX 250 SKS. / NO PSI CLOSE IN!</i>
			<i>6</i>	<i>2</i>	<i>DRILL OUT @ 7:00AM - DISP. 6BBL</i>
					<i>JOB COMPLETE,</i>
					<i>THANKS -</i>
					<i>KEVEN LESLEY</i>

Customer <i>McCoy Pet Corp</i>	Lease No. <i>U</i>	Date <i>6-10-2014</i>	
Lease <i>MTPRC "B"</i>	Well # <i>4-22</i>		
Field Order # <i>10668</i>	Station <i>Pratt, KS</i>	Casing <i>8 5/8</i>	Depth <i>21</i>
Type Job <i>CMU/Surface</i>	Formation <i>TD-626</i>	County <i>Kiowa</i>	State <i>KS</i>
		Legal Description <i>22-30-19</i>	

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

Customer Representative <i>DAVE</i>	Station Manager <i>HERAN</i>	Treater <i>CONDIE Y</i>
Service Units <i>19889 19843 19960 21010 19907 27289</i>	Driver Names <i>McGraw McGraw Asion Asion KG DITMAN</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2000</i>					<i>ON LOCATION</i>
					<i>RUN 8 5/8 USE</i>
					<i>LOST CORE AT 446'</i>
					<i>PUMP 150 SK CEMENT TO</i>
					<i>TRACK BOTTOM 8 5/8 DWI</i>
	<i>100</i>		<i>37</i>	<i>6</i>	<i>MAX 150 SK 60/40 PZ</i>
					<i>2% CEL, 3% CC, 1/4" CELLFIBRE</i>
					<i>DROP PLUG</i>
	<i>0</i>		<i>0</i>	<i>6</i>	<i>START DISP.</i>
<i>2100</i>	<i>500</i>		<i>37</i>	<i>4</i>	<i>PLUG DOWN - SHUT IN</i>
					<i>DID NOT CORE ANYTHING</i>
<i>2200</i>					<i>JOB COMPLETE HERAN</i>



Customer McCoy Pet. Corp	Lease No.	Date 6-17-14
Lease MTPRC B	Well # 4-22	
Field Order # 10753	Station Pratt	Casing 5 1/2
		Depth 5199
Type Job CNW	Formation	County Kiowa
		State KS
		Legal Description 22-30-19

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 5199	Depth	From	To	Pre Pad	Max		5 Min.
Volume 122	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 5156	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative Dave	Station Manager Kevin	Treater Joe
---------------------------------	--------------------------	----------------

Service Units	19889	19843	19960	21010		28443			
Driver Names	ED		Aaron			Joe			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0600					ON LOC / safety meeting
					Run 123 JTS of 5 1/2 csg 15.3# pipe
					cent. on JT. 1-3-5-7
0630					START Running csg
0925					csg on bottom / circ with rig
1030					HOOK UP TO PUMP TRK TO START JOB
1030	50		5	6	H2O spacer
			10	6	STOP LOSS
			5	6	H2O spacer
	150		38	6	mix 150 SK of AA2 cement @ 15#
			0	0	shut down / clear pump & lines
	50		0	6	Release Plug START H2O DISP.
	200		96	6	LIFT PSI
	300		112	45	slow rate
11:30	1500		122	0	Plug Down
					Plug BH & MH
					JOB complete
					Thank you
					Joe