

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1241638  
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: \_\_\_\_\_

1241638

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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HWY "A" #2-25  
API: 15-097-21815

ACO-1 Supplemental Information

SAMPLE TOPS

McCoy Petroleum Corp.  
HWY 'A' #2-25  
80'S of W2 NE SE  
1900'FSL & 990'FEL  
Sec 25-30s-19w  
KB: 2241'

	Depth	Datum
LaCompton B	4033	-1792
Queen Hill	4076	-1835
Heebner	4252	-2011
Toronto	4269	-2028
Douglas	4334	-2093
Brown Lime	4428	-2187
Lansing	4446	-2205
Lansing B	4473	-2232
Lansing F	4570	-2329
Lansing H	4624	-2383
Lansing J	4730	-2489
Stark	4774	-2533
Hushpuckney	4828	-2587
Marmaton	4918	-2677
Pawnee	4966	-2725
Cherokee	5010	-2769
Miss.	5082	-2841
Spergen Pors.	5111	-2770
Warsaw NC		
RTD	5200	-2959

LOG TOPS

McCoy Petroleum Corp.  
HWY 'A' #2-25  
80'S of W2 NE SE  
1900'FSL & 990'FEL  
Sec 25-30s-19w  
KB: 2241'

	Depth	Datum
LaCompton B	4030	-1792
Queen Hill	4074	-1835
Heebner	4252	-2011
Toronto	4270	-2028
Douglas	4334	-2093
Brown Lime	4430	-2187
Lansing	4446	-2205
Lansing B	4474	-2232
Lansing F	4568	-2329
Lansing H	4626	-2383
Lansing J	4732	-2489
Stark	4774	-2533
Hushpuckney	4828	-2587
Marmaton	4919	-2677
Pawnee	4966	-2725
Cherokee	5010	-2769
Miss.	5080	-2841
Spergen Pors.	5114	-2770
Warsaw	5126	-2885
LTD	5201	-2960



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

**Well Name:** HWY 'A' # 2-25  
**API:** #15-097-21815-00-00  
**Location:** 80' S of N/2 - SW - NE - SE of Sec. 25 - T. 30 S. - R. 19 W.  
**License Number:** KCC# 5003  
**Spud Date:** 11/05/2014  
**Surface Coordinates:** SPOT: 1900' FSL & 990' FEL

**Region:** IOWA CO., KS.  
**Drilling Completed:** 11/12/2014

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 2232'                      **K.B. Elevation (ft):** 2241'  
**Logged Interval (ft):** 655'                      **To:** 5701'                      **Total Depth (ft):** 5201'  
**Formation:** MISSISSIPPIAN  
**Type of Drilling Fluid:** Chemical/Polymer/Gel & Starch

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

**Company:** McCoy Petroleum Corporation, KCC License #5003  
**Address:** 9342 E Central  
Wichita, KS 67206

**GEOLOGIST**

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

**Casing & Deviation**

Spud at 1:30 PM on 11/05/14. Drilled 12-1/4" hole to 656'. Ran 16 joints of new 23# 8-5/8" surface casing, Tallied 643', set at 655' KB. Welded straps on bottom 3 and top 2 joints. Tacked collars on remainder. Cemented with 200 sks Class A, 3% CC; 1/4# CF, tailed with 200 sks 60/40 POZ; 2% Gel; 3% CC; 1/4# CF. Plug down at 11:00 AM 11/06/14. Basic Services ticket #11826. Cement did circulate.

**Deviation Survey's Taken:** @ 655' = 1 degree; @ 5121' = 1/4 degree; @ 5200' = 3/4 degree.

## DSTs

~~ DST # 1~~ Interval: 5090'-5121'. Times: 90"- 60";

Blow: IF=Strong/ BOB/20 Sec. & GTS @ 20" (See Gauge Report). No Blow Back During FSIP.

Recovery: 4723' GIP: 360' TF: 62' GOCM (5% G; 5% O; 90% M). 186' GMWCO (10% G; 72% O; 12% Wtr; 6% M). 114' GMOCW (20% G; 25% O; 30% Wtr; 25% M). 10" Wtr.

Pressures: IH=2612#; FH=2540#; IF=76-158#; FSIP=820#; T.= 118 degrees F. . Chl = 80,000 Ppm; RW = 25 @ 28 degrees F.,

Gas Gauge IF= @ 30"=140.5 Mcf; @ 40"=28.9 Mcf; @ 50" = TSTM.


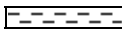

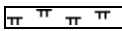
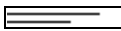





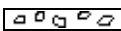


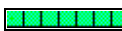




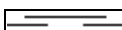

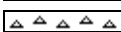


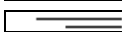
## Comments

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









































































Respectfully submitted,

David P. Williams, P. G. # 88 Kansas

## ROCK TYPES

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

## ACCESSORIES

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

**OTHER SYMBOLS**

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

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

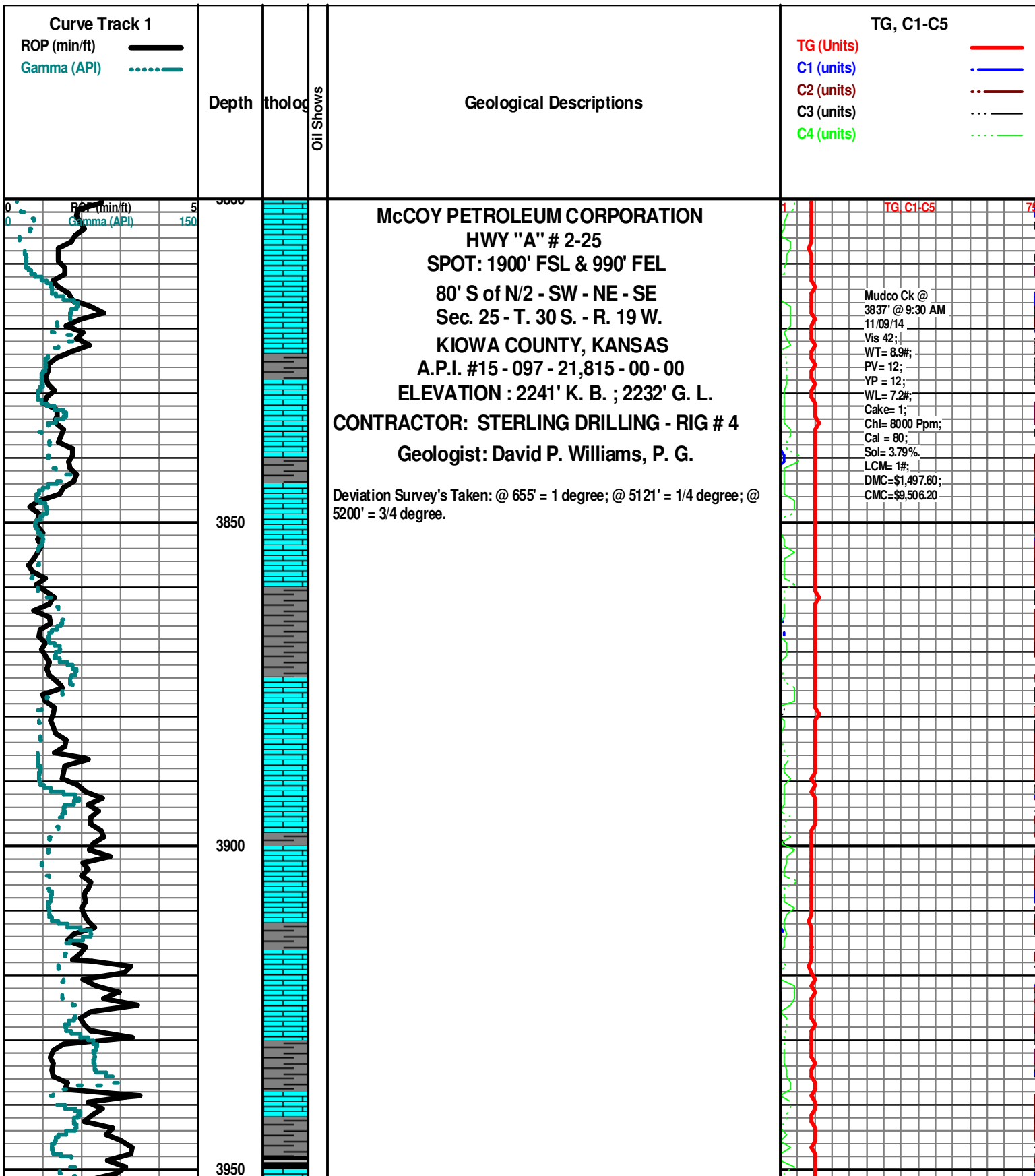
- ROUNDING**  
 [R] Rounded  
 [r] Subrnd  
 [a] Subang  
 [A] Angular

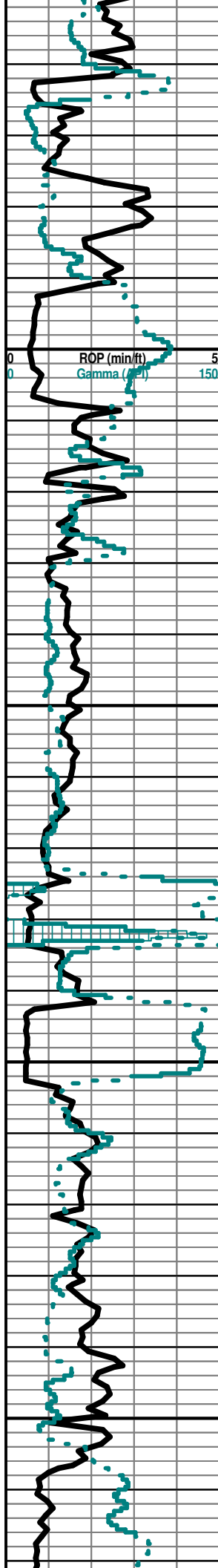
- Even  
 Spotted  
 Ques  
 Dead

- EVENT**  
 Rft  
 Sidewall

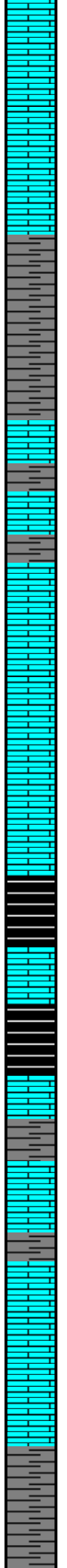
- OIL SHOW**  
 Gas show

- INTERVAL**  
 Dst  
 Dst\_alt



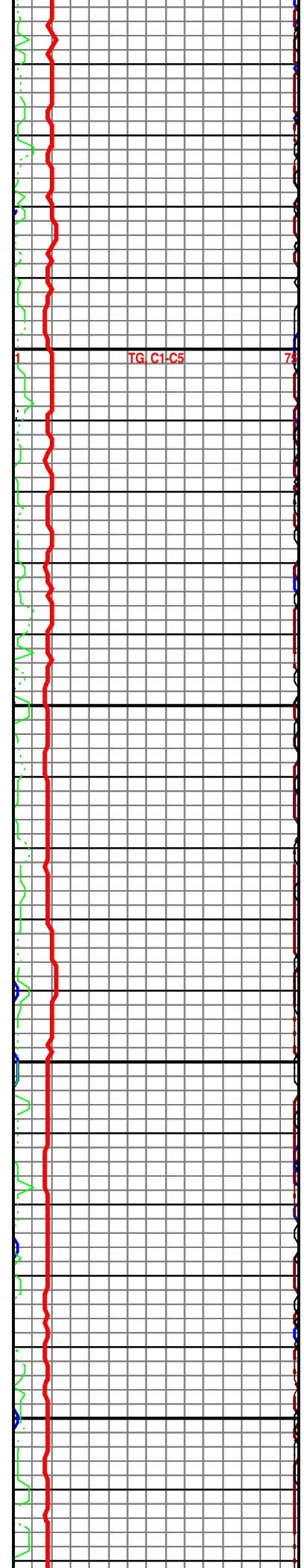


4000  
4050  
4100  
4150

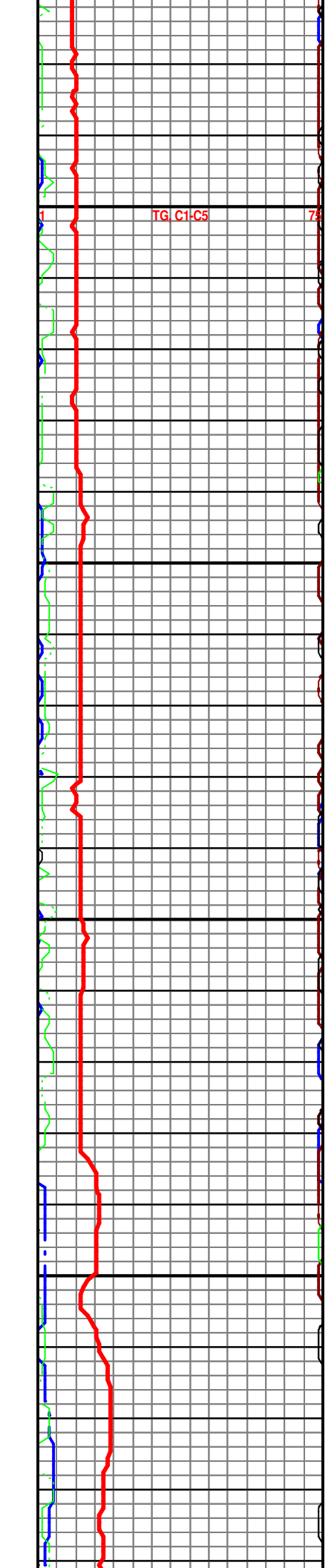
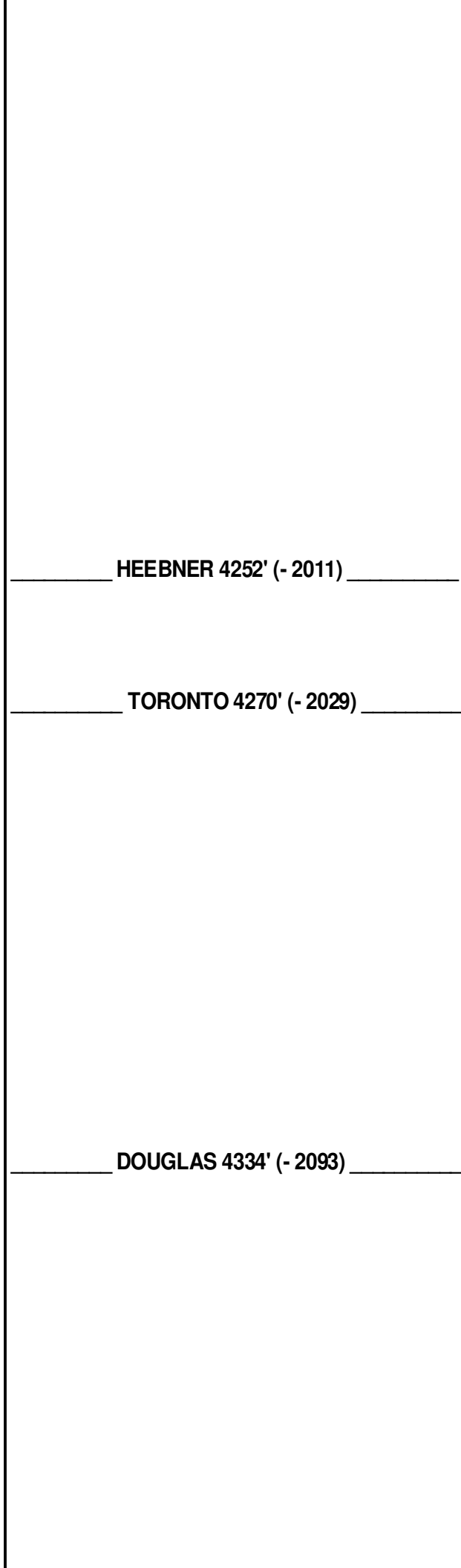
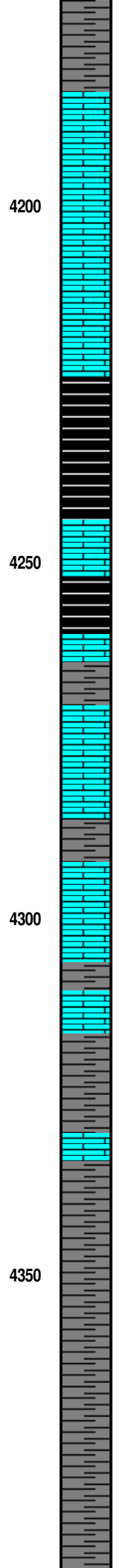
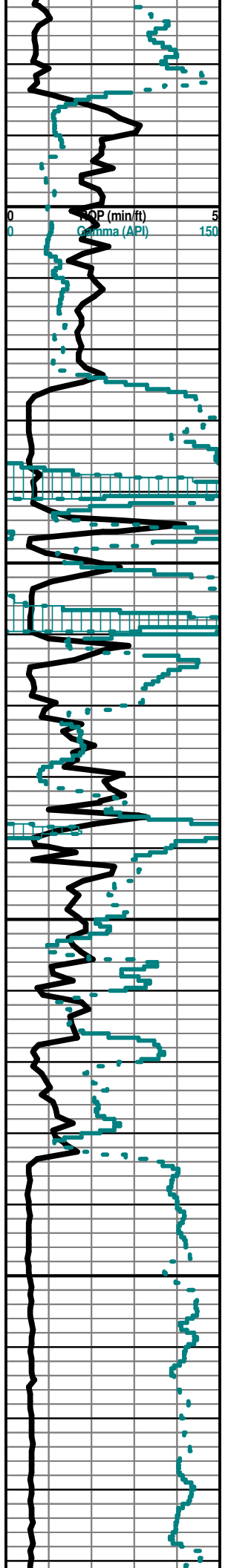


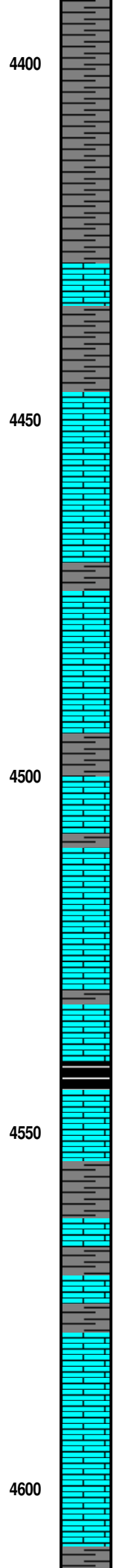
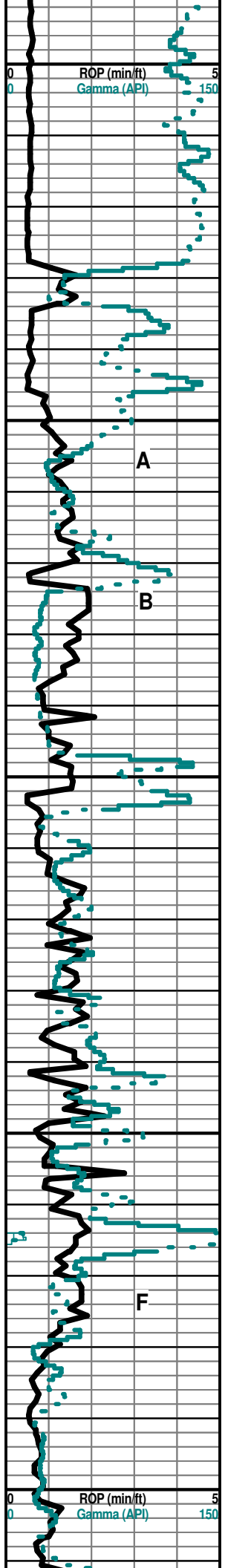
LECOMPTON "B" 4033' (-1791)

QUEEN HILL SHALE 4074' (-1833)



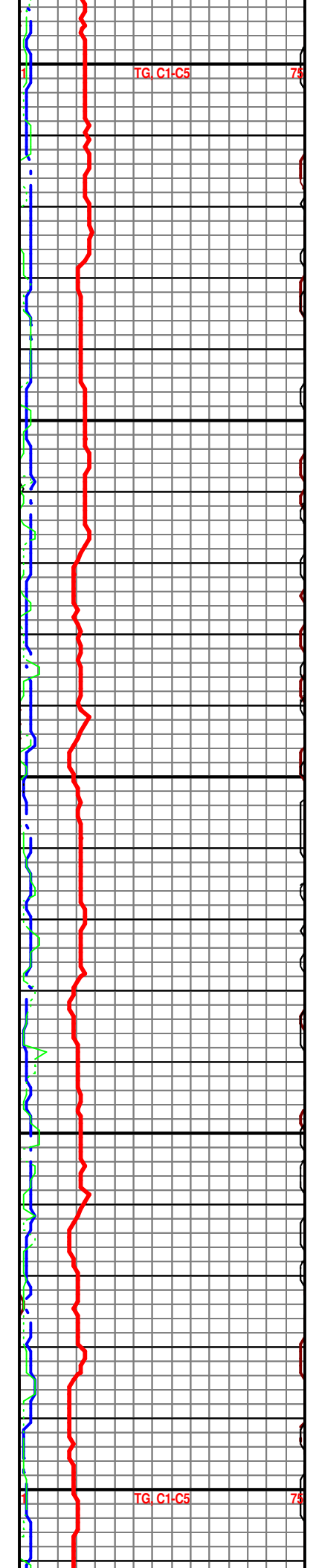


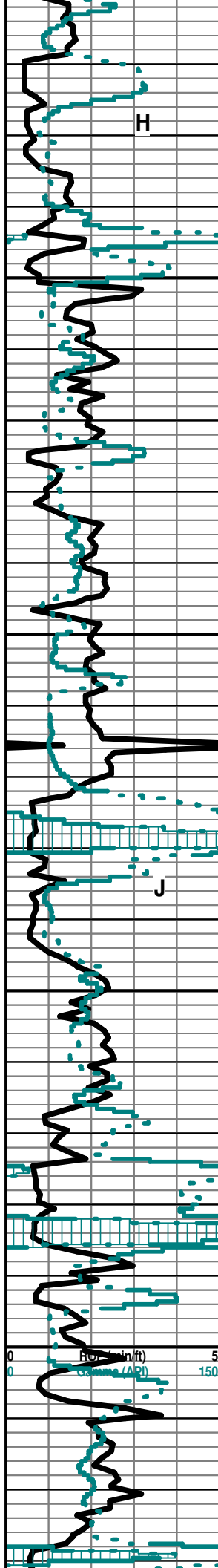




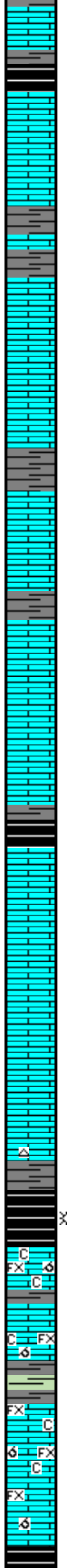
IATAN (BROWN LIME) 4428' (- 2187)

LANSING 4446' (- 2205)





4650  
4700  
4750  
4800



Geologist on location @ (4842') 1:40 PM 11-10-14  
 All samples have been lagged to depth by calculated time.  
 Begin 10' Sample Examination @ 4800'.

**STARK SHALE 4774' (- 2533)**  
 Sh Blk Carb (w/? SSG)-Char-Gry Fissil Ls Lt Tan-Wht FxIn Mostly Micrite Grad Fair Pin-Pt  
 IxIn Por Grad Fair Vug Leached OOM Por Cht Tan Op Shp Vit No Odor No Stn No Flor  
 SSG in Blk Sh

**KANSAS CITY "SWOPE" 4786' (- 2545)**  
 Ls Wht-Lt Tan-Crm-Gry FxIn Mostly Micrite Dns Grad Fair Ppt IxIn Por Grad  
 Grad Med-Good Vug OOM Por Med-Good Leaching Barren Chalk Sh  
 Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Crm-Gry FxIn Mostly Micrite Dns Grad Fair Ppt IxIn Por Grad  
 Med-Good Vug OOM Por AA Med Leaching Barren Chalk Sh  
 Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Lt Tan-Crm-Gry FxIn Mostly Micrite Dns Grad Fair Ppt IxIn Por Grad  
 Med-Good Vug OOM Por Med-Good Leaching Barren Chalk Sh  
 Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

**HUSHPUCKNEY SHALE 4828' (- 2587)**  
 Sh Blk Carb Fissil No Odor No Stn No Flor NS

Mudco Ck @  
 4715' @ 9:45 AM  
 11/10/14  
 Vis 40;  
 WT= 9.5+##;  
 PV= 8;  
 YP= 24;  
 WL= 17.6#;  
 Cake= 2;  
 Chl= 13000 Ppm;  
 Cal = 360;  
 Sol= 7.9%.  
 LCM= 0#;  
 DMC=\$8,302.40;  
 CMC=\$17,808.60

TG C1-C5 75

**KANSAS CITY "HERTHA" 4834' (-2593)**

Ls Tan-Crm-Gry FxIn Mostly Micrite Dns Barren Chalk Sh Char-Gry-Blk Carb-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Mostly Micrite Dns Grad Poor Ppt IxIn Por Cht Wht-Smokey Gry Op Shp Vit Chalk Sh Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Mostly Micrite Dns Barren Grad Poor IxIn Por Cht Wht (w/Fos (Spicule Includ) Op Shp Vit Chalk Sh Char- Gry- Aqua Fissil No Odor No Stn No Flor NS

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

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

Sh Blk Carb (w/GSG)-Char-Gry-Lt Brn Carb Fissil Ls Wht-Crm- Gry MicroxIn Dns Micrite Cht Wht Op Shp Vit Chalky No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn Dns Micrite Grad Poor Ppt IxIn Por Barren Cht Wht Op Shp Vit Chalky Sh Blk Carb-Gry-Lt Brn- Aqua/Grn-Red Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn Dns Micrite Grad Poor Ppt IxIn Por Barren Cht Wht Op Shp Vit Chalky Sh Blk Carb-Gry-Lt Brn- Aqua/Grn-Red Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn Dns Micrite Grad Poor Ppt IxIn Por Barren Cht Wht Op Shp Vit Chalky Sh Blk Carb-Gry-Lt Brn- Aqua/Grn-Red Soft-Fissil No Odor No Stn No Flor NS

**MARMATON 4918' (- 2677)**

Sh Blk Carb-Char-Gry-Lt Brn-Aqua/Grn-Red Soft-Fissil Ls Wht-Crm FxIn Micrite Grad Fair-Med Ppt IxIn Por Barren Grad Fair-Med OOM Por Med Leaching Barren Chalky No Odor No Stn Sli ? Min Flor (3 Pcs) NS

Ls Wht MicroxIn-FxIn Dns Micrite Grad Ppt IxIn Por Grad Poor OOM (w/Small Ooids in pl) Por (w/SSG (Under Wtr with Heat) Poor InterOOM/OOL Por Poor-Fair Leaching Fair Develop Por Sh Blk Carb-Char-Gry Fissil No Odor No Stn Scatt Flor (Lt Grn) ? Faint Odor SSG

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

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

Ls Wht MicroxIn-FxIn Dns Micrite No Vis Por Chalk Abd Sh Blk Carb-Char-Grv Fissil No Odor No Stn No Flor NS

**PAWNEE 4966' (- 2725)**

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

Ls Wht MicroxIn-FxIn Dns Micrite No Vis Por Barren Chalk V Abd Pyr Mass Sh Blk Carb-Char-Gry Fissil AA No Odor No Stn No Flor NS

30" CFS @ 5010' Sh Blk Carb-Char Fissil Ls Wht-Lt Tan MicroxIn-FxIn Dns Micrite Grad Med OOM Por Barren Med Leaching Cht Wht-Crm Op Shp Vit Chalky No Odor No Stn No Flor NS

60" CFS @ 5010' Sh Blk Carb-Char Fissil Ls Wht-Lt Tan MicroxIn-FxIn Dns Micrite Cht Wht-Crm Op Shp Vit Pyr Mass Chalky No Odor No Stn No Flor NS

**CHEROKEE SHALE 5010' (-2767)**

75" CFS @ 5010' Sh Blk Carb-Char (w/Pyr Includ) Fissil Ls Wht-Lt Tan MicroxIn-FxIn Dns Micrite Grad Med OOM Por Barren Med Leaching Cht Wht-Crm Op Shp Vit Pyr Mass Chalky No Odor No Stn No Flor NS

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

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

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

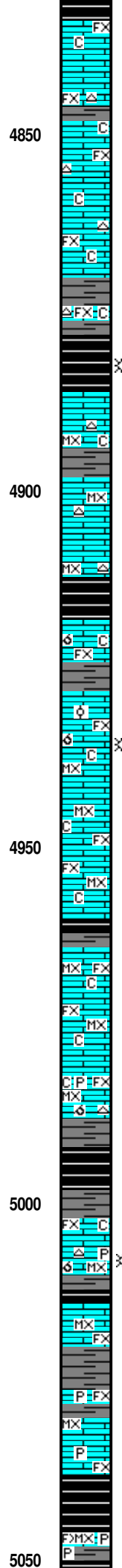
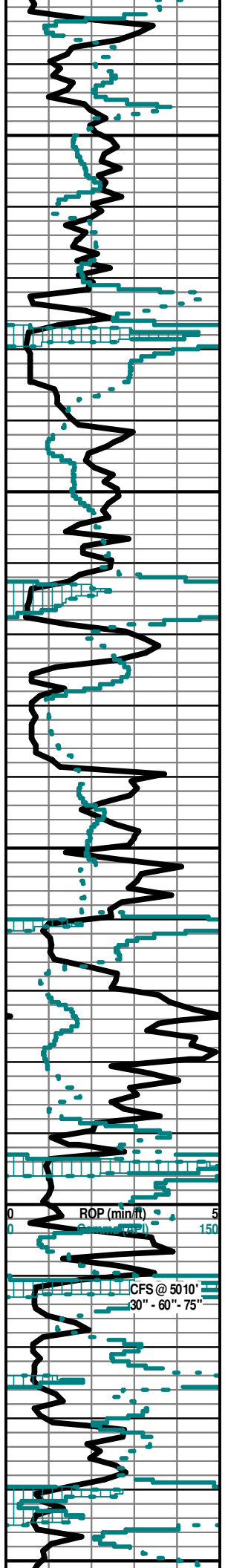
ADJ. ANNULAR VELOCITY (AV) @ 4949' @ 69 SPM = 181.66

RE-ZERO TOOKE DAQ @ 4949'. BKGD GAS SET AT 11 UNITS.

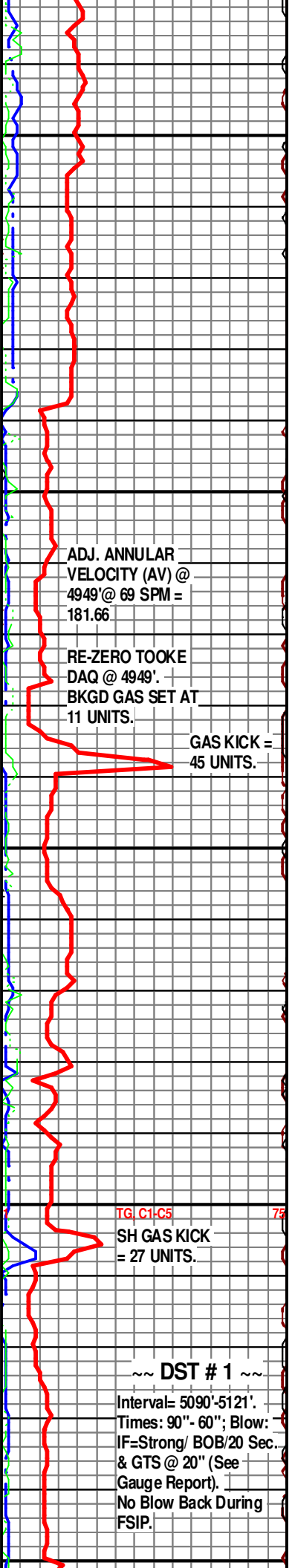
GAS KICK = 45 UNITS.

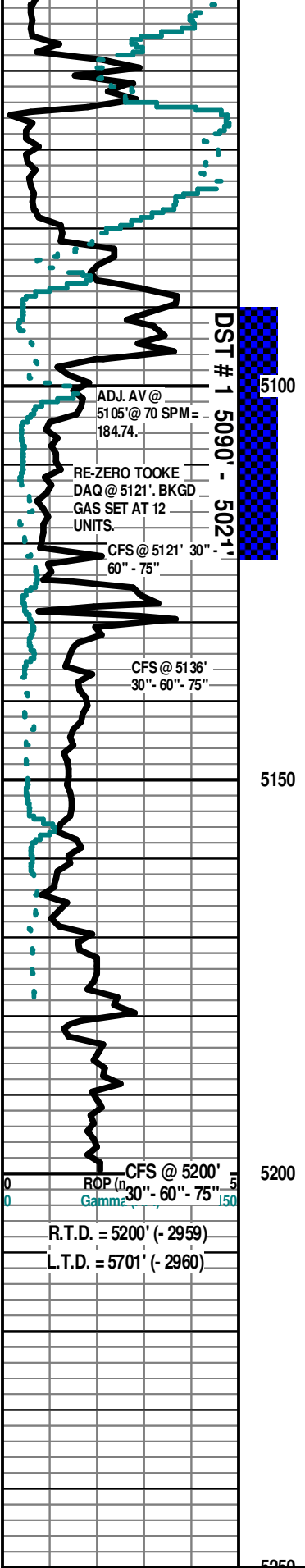
TG C1-C5 SH GAS KICK = 27 UNITS.

~ DST # 1 ~ Interval= 5090'-5121'. Times= 90"- 60"; Blow: IF=Strong/ BOB/20 Sec. & GTS @ 20" (See Gauge Report). No Blow Back During FSIP.



Geological descriptions and logs for various rock units including Marmaton, Pawnee, and Cherokee Shale.





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

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

**MISSISSIPPIAN 5082' (- 2841)**

Ls Wht-Crm-Lt Tan Microxln-Fxln Micritic Grad Poor-Fair Pin-Pt Ixln Por  
Cht Wht- Peach-Org Trip Op Shp Vit Chalky Sh Vari- colored  
Char-Gry-Drab Grn-Aqua-Olive Soft-Fissil ? Sli Odor No Flor NS

**SALEM (SPERGEN) 5102' (- 2861)**

30" CFS @ 5010' Ls/Dolo Wht-Crm-Lt Tan Microxln-Fxln Poor Ppt Ixln Por (w/SSG & Pyr  
Inklus) Sli Scat Lt Brn Stn On Edges (3 Pcs) Shale Char-Gry- Aqua Soft-Fissil No Odor No  
Flor NS

**SALEM (SPERGEN) Ø 5111' (- 2870)**

60" CFS @ 5121' Ls/Dolo Wht-Crm-Lt Tan Microxln-Fxln Micritic (w/Pyr Inklus) Grad  
Poor-Fair Ppt Ixln Por (w/Tr Fos Ixln Por & Gillsonitic "Dead" Drk Blk Alspate Inklus  
(w/SSG & SO w/ Broken Under Heat in Wtr) Cht Tan Op Shp Vit Fos (Crim, Fuss) Chalky  
Sh Char-Gry-Aqua Fissil No Odor ? Sli Flor Tr Drk-Lt Brn Stn SSG & SSO

75" CFS @ 5121' Dolo/Ls LtTan-Crm Fxln Fair-Med Sucrosic Ixln Por (w/Med Vug  
Leached Por (w/SG & SO)) Gas & Oil (Lt Brn) Do Flor (Lt Grn) Cht Tan-Lt Red (w/Tr Vug  
Leaching & Fos (Spicule) Inklus) Op Shp Vit Fos (Fuss) Chalky Sh AA Varicolored Faint  
Inc Odor Sli Flor (Lt Grn) Lt Brn Stn SG & SSO

60" CFS @ 5136' Dolo Crm-Lt Tan (w/Tr Glacu Inklus) Fxln Med-Good Sucrosic Ixln Por  
(w/GSG & GFSo in Heat Under Wtr) Good Sat Stn (Lt Brn) Good Scat Flor (Lt Grn) Fair  
Odor Cht Wht Op Shp Vit Sh Varicolored AA GSG & GSO

75" CFS @ 5136' Chalk Wht (V Abd) Sh AA Dolo AA Fair Odor SSG & SSO AA  
Dolo Gry-Tan-Crm (w/Chlorite/Glacu Inklus) Fxln Med-Good Pin-Pt Ixln Grad Small-Med  
Sucrosic Ixln Por (w/MSG & SFO) Faint Dec Odor Sli Scat Flor (Lt Grn) Cht AA Med SG &  
SFO

Dolo Gry-Tan-Crm (w/Chlorite/Glacu Inklus) Fxln Med-Good Ppt Ixln  
Grad Small-Med Sucrosic Ixln Por (w/SG & SO) Faint Dec Odor Sli Scat  
Flor (Lt Grn) Cht AA Med SG & SFO

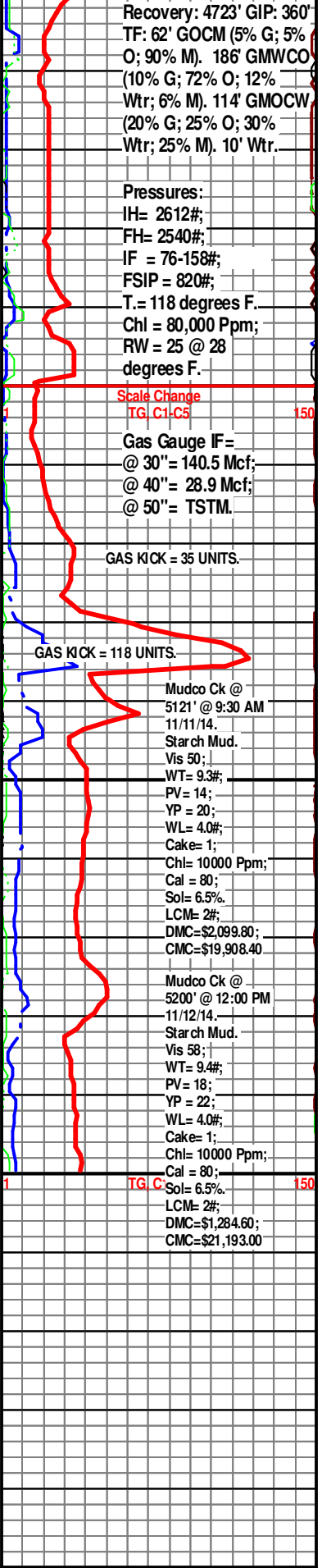
30" CFS @ 5200' Dolo Gry-Tan-Crm (w/Chlorite/Glacu Inklus) Fxln  
Med-Good Ppt Ixln Grad Small-Med Sucrosic Ixln Por No Odor No Flor  
No Stn NS

60" CFS @ 5200' Dolo Gry-Tan-Crm (w/Chlorite/Glacu Inklus) Fxln  
Med-Good Ppt Ixln Grad Small-Med Sucrosic Ixln Por No Odor No Flor  
No Stn NS

75" CFS @ 5200' Dolo Gry-Tan-Crm (w/Chlorite/Glacu Inklus) Fxln  
Med-Good Ppt Ixln Grad Small-Med Sucrosic Ixln Por No Odor No Flor  
No Stn NS

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

Geologist Left Location At: 8:00 PM on 11/12/2014



CFS @ 5200'  
ROP (Gamma) 30"- 60"- 75"- 150"

R.T.D. = 5200' (- 2959)  
L.T.D. = 5701' (- 2960)



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corporation**

9342 E Central  
Wichita, KS 67206

ATTN: Dave Williams

### **HWY A #2-25**

### **25-30s-19w Kiowa,KS**

Start Date: 2014.11.11 @ 13:15:08

End Date: 2014.11.11 @ 21:37:38

Job Ticket #: 59884                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.13 @ 16:35:13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E Central  
Wichita, KS 67206

**HWY A #2-25**

Job Ticket: 59884

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.11.11 @ 13:15:08

## GENERAL INFORMATION:

Formation: **Mississippi/Salem**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:15:53

Time Test Ended: 21:37:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

**Interval: 5090.00 ft (KB) To 5121.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 5121.00 ft (KB) (TVD)

2232.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 6798**

**Inside**

Press@RunDepth: 158.37 psig @ 5091.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.11

End Date:

2014.11.11

Last Calib.:

2014.11.11

Start Time: 13:15:09

End Time:

21:37:38

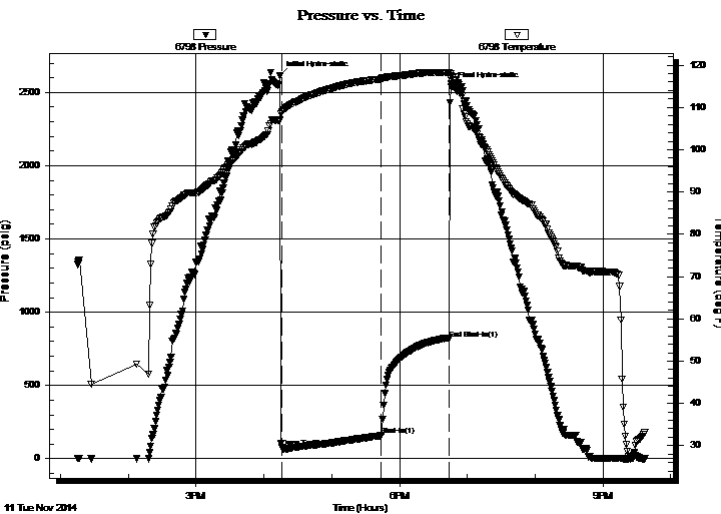
Time On Btm:

2014.11.11 @ 16:13:53

Time Off Btm:

2014.11.11 @ 18:45:38

**TEST COMMENT:** IF: Strong Blow , BOB in 20 seconds, GTS in 20 minutes, Gauged W/ Merla & Caught Sample, TSTM @ 50 minutes  
IS: No Blow Back  
Pulled Test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2612.16	107.01	Initial Hydro-static
2	75.89	108.99	Open To Flow (1)
90	158.37	116.69	Shut-In(1)
150	820.35	118.23	End Shut-In(1)
152	2540.42	117.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
10.00	Water	0.05
114.00	GMOCW 20%G 25%M 25%O 30%W	1.42
186.00	GMWCO 10%G 6%M 12%W 72%O	2.61
62.00	GOCM 5%G 5%O 90%M	0.87

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	10.00	164.59
Last Gas Rate	0.25	5.00	30.78



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corporation

**25-30s-19w Kiowa, KS**

9342 E Central  
Wichita, KS 67206

**HWY A #2-25**

Job Ticket: 59884

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.11.11 @ 13:15:08

## GENERAL INFORMATION:

Formation: **Mississippi/Salem**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:15:53

Time Test Ended: 21:37:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

**Interval: 5090.00 ft (KB) To 5121.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 5121.00 ft (KB) (TVD)

2232.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8367 Outside**

Press@RunDepth: psig @ 5091.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.11

End Date:

2014.11.11

Last Calib.:

2014.11.11

Start Time: 13:15:09

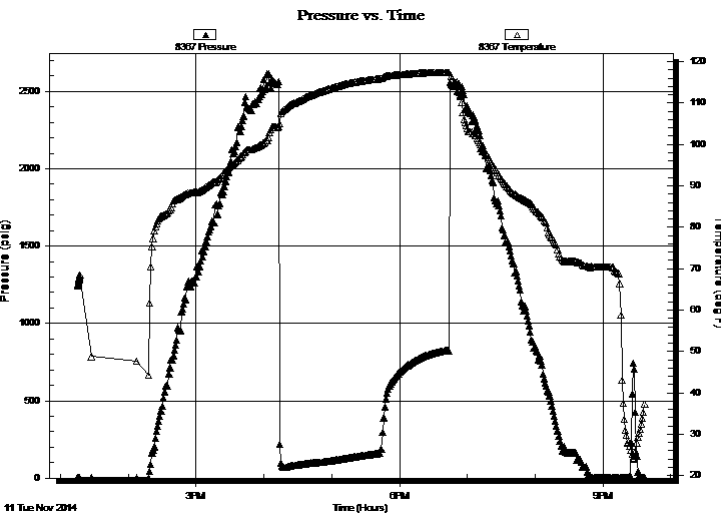
End Time:

21:37:23

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Strong Blow , BOB in 20 seconds, GTS in 20 minutes, Gauged W/ Merla & Caught Sample, TSTM @ 50 minutes  
IS: No Blow Back  
Pulled Test



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
10.00	Water	0.05
114.00	GMOCW 20%G 25%M 25%O 30%W	1.42
186.00	GMWCO 10%G 6%M 12%W 72%O	2.61
62.00	GOCM 5%G 5%O 90%M	0.87

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	10.00	164.59
Last Gas Rate	0.25	5.00	30.78





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E Central  
Wichita, KS 67206

**HWY A #2-25**

Job Ticket: 59884

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.11.11 @ 13:15:08

## Tool Information

Drill Pipe:	Length: 5065.00 ft	Diameter: 3.80 inches	Volume: 71.05 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 71.20 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	5090.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5069.00	
Hydraulic tool	5.00			5074.00	
Jars	5.00			5079.00	
Safety Joint	2.00			5081.00	
Packer	5.00			5086.00	26.00 Bottom Of Top Packer
Packer	4.00			5090.00	
Stubb	1.00			5091.00	
Recorder	0.00	6798	Inside	5091.00	
Recorder	0.00	8367	Outside	5091.00	
Perforations	27.00			5118.00	
Bullnose	3.00			5121.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E Central  
Wichita, KS 67206

**HWY A #2-25**

Job Ticket: 59884

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.11.11 @ 13:15:08

### 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:

80000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
10.00	Water	0.049
114.00	GMOCW 20%G 25%M 25%O 30%W	1.417
186.00	GMWCO 10%G 6%M 12%W 72%O	2.609
62.00	GOCM 5%G 5%O 90%M	0.870

Total Length: 372.00 ft      Total Volume: 4.945 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .25 @ 28 degrees



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E Central  
Wichita, KS 67206

**HWY A #2-25**

Job Ticket: 59884

**DST#: 1**

ATTN: Dave Williams

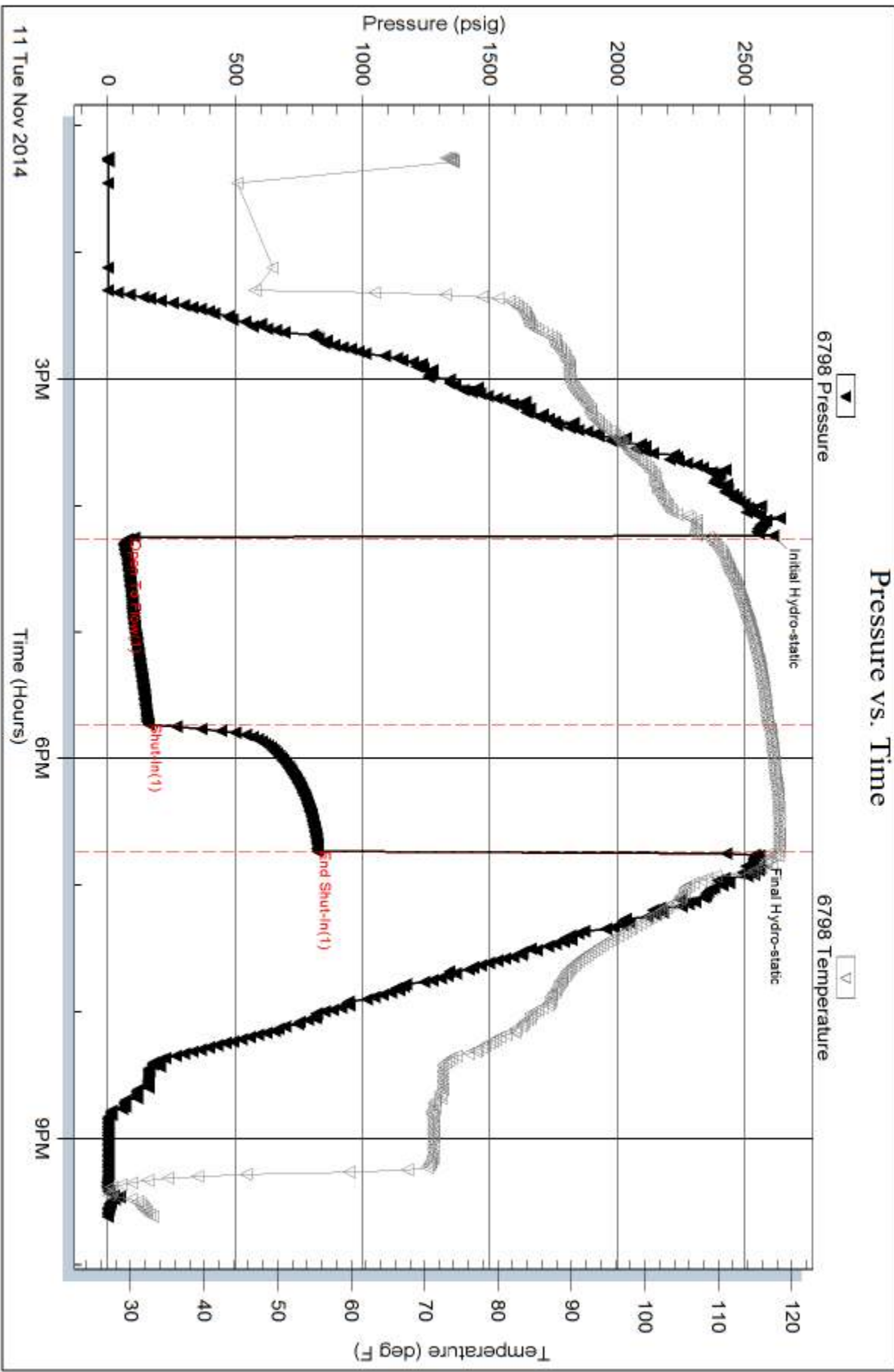
Test Start: 2014.11.11 @ 13:15:08

### 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)
1	30	0.50	10.00	164.59
1	40	0.25	5.00	30.78

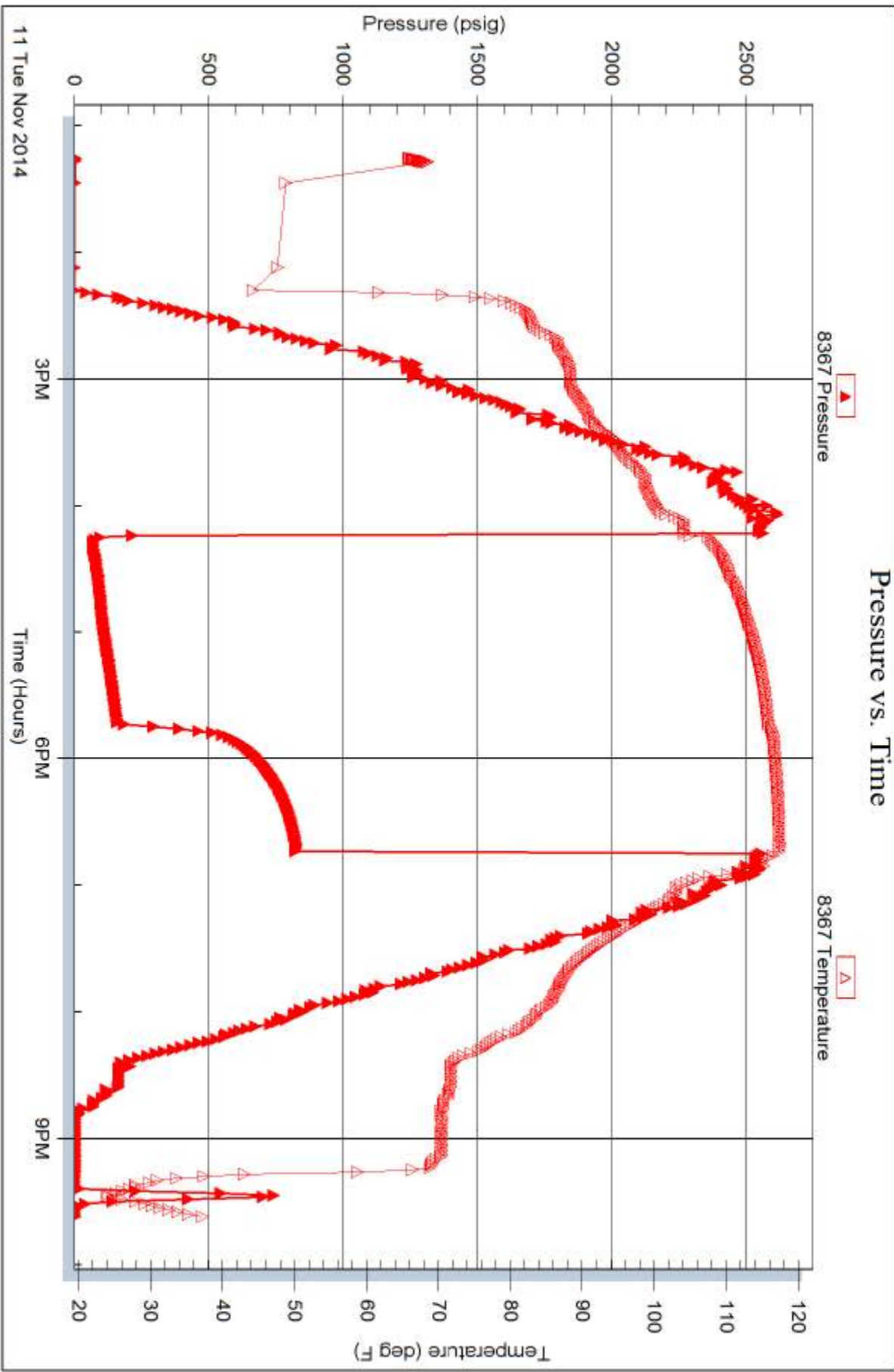


Serial #: 8367

Outside McCoy Petroleum Corporation

HWY A #2-25

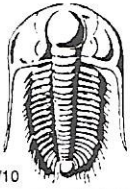
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59884

Printed: 2014.11.13 @ 16:35:14



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59884

Well Name & No. Hwy A 2-25 Test No. 1 Date 11/11/14  
 Company McCoy Petroleum Corporation Elevation 2241 KB 2232 GL  
 Address 9342 E Central Wichita, KS 67206  
 Co. Rep / Geo. Dave Williams Rig Sterling 4  
 Location: Sec. 25 Twp. 30S Rge. 19W Co. Kiowa State KS

Interval Tested 5090 - 5121 Zone Tested Mississippi/Salem  
 Anchor Length 31 Drill Pipe Run 5065 Mud Wt. 9.3  
 Top Packer Depth 5085 Drill Collars Run 30 Vis 50  
 Bottom Packer Depth 5090 Wt. Pipe Run 0 WL 4.0  
 Total Depth 5121 Chlorides 10000 ppm System LCM 2

Blow Description IFI Strong Blow, BOBIN 20sec, GTS in 20 minutes, Gauged & Caught sample  
151M @ 50 minutes  
ISI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>62</u>	Feet of <u>GOCM</u>	<u>5</u> %gas	<u>5</u> %oil	<u>90</u> %water	<u>90</u> %mud
Rec <u>186</u>	Feet of <u>G.M.WCO</u>	<u>10</u> %gas	<u>72</u> %oil	<u>12</u> %water	<u>6</u> %mud
Rec <u>114</u>	Feet of <u>G.M.O.C.W</u>	<u>20</u> %gas	<u>25</u> %oil	<u>30</u> %water	<u>25</u> %mud
Rec <u>10</u>	Feet of <u>WATER</u>	%gas	%oil	%water	%mud
Rec Total <u>372</u>	BHT <u>118</u>	Gravity <u>N/C</u>	API RW <u>.25</u> @ <u>28</u> °F	Chlorides <u>80,000</u> ppm	

(A) Initial Hydrostatic 2612  Test 1350 T-On Location 11:45  
 (B) First Initial Flow 76  Jars 250 T-Started 13:15  
 (C) First Final Flow 158  Safety Joint 75 T-Open 16:15  
 (D) Initial Shut-In 820  Circ Sub \_\_\_\_\_ T-Pulled 18:43  
 (E) Second Initial Flow N/A  Hourly Standby \_\_\_\_\_ T-Out 21:37  
 (F) Second Final Flow N/A  Mileage 100 155 Comments \_\_\_\_\_  
 (G) Final Shut-In N/A  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2540  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1830

Initial Open 90 @  
 Initial Shut-In 60  
 Final Flow N/A  
 Final Shut-In N/A

Sub Total 1830

Approved By Dave Williams Our Representative [Signature]

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





Customer <i>Mccoys Petroleum</i>	Lease No.	Date <i>11-6-14</i>	
Lease <i>H. 66 Y. A'</i>	Well # <i>2-25</i>		
Field Order # <i>11826A</i>	Station <i>Pratt</i>	Casing <i>2 5/8</i>	Depth <i>655</i>
		County <i>Kiowa</i>	State <i>KS</i>
Type Job <i>2 5/8" Surface Pipe</i>	Formation <i>CNW</i>	Legal Description <i>25-305-194</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>2 5/8</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>655</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>476</i>	Volume <i>47.182</i>	From	To	Pad	Min		10 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>2 5/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Dave Otter</i>	Station Manager <i>Kevin Guidley</i>	Treater <i>Scott Graves</i>
Service Units <i>38970</i>	<i>77686</i>	<i>19960</i>
Driver Names <i>Scott Shawn Cole</i>	<i>19905</i>	<i>19860</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:30</i>					<i>In location Safety Meeting Rig up</i>
<i>9:05</i>					<i>Run fleet equipment</i>
<i>10:15</i>					<i>Circulate on bottom</i>
<i>10:23</i>			<i>3</i>	<i>4</i>	<i>Pump H<sub>2</sub>O spacer</i>
<i>10:25</i>	<i>250</i>			<i>5.5</i>	<i>Mix 200SKS A-con Blend @ 12#</i>
<i>10:41</i>	<i>250</i>		<i>87.98</i>	<i>5.5</i>	<i>Mix 200SKS GOMIX P02 @ 14.8#</i>
<i>10:49</i>	<i>Ø</i>		<i>43.1</i>		<i>Shut Down</i>
<i>10:50</i>					<i>Release Plug</i>
<i>10:51</i>	<i>100</i>			<i>5.5</i>	<i>Start Displacement</i>
<i>10:56</i>	<i>350</i>		<i>30</i>	<i>3</i>	<i>Reduce Rate</i>
<i>11:00</i>	<i>500</i>		<i>110</i>	<i>3</i>	<i>Plug landed</i>
					<i>Shut down</i>
					<i>Shut out Head in</i>
					<i>Job complete</i>
					<i>Circulated Cement to Surface</i>



Customer <i>Mc Coy Petroleum</i>	Lease No.	Date <i>11-13-14</i>
Lease <i>HWY A</i>	Well # <i>2-25</i>	
Field Order # <i>11529</i>	Station <i>Pratt</i>	Casing <i>4 1/2</i>
		Depth <i>5200</i>
Type Job <i>CHW 4 1/2 Long String</i>	Formation	County <i>Kiowa</i>
		State <i>KS</i>
		Legal Description <i>25-30-19</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2</i>								
Depth <i>5200</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>82</i>	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 <i>5179</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Grady</i>	Station Manager <i>Kevin</i>	Treater <i>Joe</i>
Service Units <i>19526 20920 19903 21010</i>	<i>92911</i>	
Driver Names <i>McGraw Cole</i>	<i>Joe</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0600</i>					<i>ON LOC / safety meeting</i>
					<i>Run 124 JTS of 4 1/2 csg @ 10.5"</i>
					<i>Turbo on 1-3-5-7</i>
					<i>Big Down celler work when I got to Loc</i>
<i>0750</i>					<i>START Running csg</i>
<i>1020</i>					<i>csg on bottom circ with Big</i>
<i>1120</i>					<i>Hook up to Pump start JOB</i>
<i>1130</i>	<i>300</i>		<i>5</i>	<i>4</i>	<i>H2O SPacer</i>
			<i>10</i>	<i>4</i>	<i>Run STOP LOSS</i>
			<i>5</i>	<i>4</i>	<i>H2O SPacer</i>
	<i>300</i>		<i>44</i>	<i>5</i>	<i>Mix 175 S/S AAZ cement @ 15"</i>
			<i>0</i>	<i>0</i>	<i>Shut Down Clear Pump Lines</i>
<i>1200</i>	<i>150</i>		<i>0</i>	<i>5</i>	<i>Release Plug Start H2O DISP.</i>
	<i>300</i>		<i>50</i>	<i>5</i>	<i>slow Rate LIST PSE</i>
	<i>600</i>		<i>72</i>	<i>4</i>	<i>slow Rate</i>
<i>1230</i>	<i>1500</i>		<i>82</i>	<i>0</i>	<i>Plug Down</i>
					<i>Plug BH &amp; MH</i>
					<i>JOB COMPLETE</i>
					<i>THANK YOU</i>