



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1193515
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: _____

1193515

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

McCoy Petroleum
Hammer 'A' #1-17
18'S & 18'E of SE NW SW
1632'FSL & 1008'FWL
Sec 17-30s-31w
KB: 2854'

	Depth	Datum
Heebner	4182	-1328
Lansing	4285	-1431
Lansing G	4516	-1662
Stark	4691	-1837
Swope Pors.	4700	-1846
Hushpuckney	4748	-1894
Hertha Pors.	4761	-1907
Marmaton	4865	-2011
Marmaton B	4884	-2030
Pawnee	4950	-2096
Cherokee	5004	-2150
Atoka	5232	-2378
Morrow Sh.	5281	-2427
Chester	5340	-2486
St Genevieve	5472	-2618
St Louis A	5557	-2703
St Louis B	5624	-2770
RTD	5675	-2851

LOG TOPS

McCoy Petroleum
Hammer 'A' #1-17
18'S & 18'E of SE NW SW
1632'FSL & 1008'FWL
Sec 17-30s-31w
KB: 2854'

	Depth	Datum
Heebner	4178	-1324
Lansing	4245	-1391
Lansing G	4524	-1670
Stark	4686	-1832
Swope Pors.	4697	-1843
Hushpuckney	4744	-1890
Hertha Pors.	4758	-1904
Marmaton	4851	-1997
Marmaton B	4885	-2031
Pawnee	4947	-2093
Cherokee	5000	-2146
Atoka	5228	-2374
Morrow Sh.	5277	-2423
Chester	5366	-2512
St Genevieve	5468	-2614
St Louis A	5582	-2728
St Louis B	5646	-2792
LTD	5673	-2816



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

Well Name: HAMMER A # 1-17
Location: 18' S. & 18' E. OF SE - NW - SW of Sec. 17 - T. 30 S. - R. 31 W.
License Number: A.P.I. # 15 - 081 - 22,044 - 00 - 00
Spud Date: 01/14/2014
Surface Coordinates: SPOT: 1632' FSL & 1008' FWL
Region: HASKELL CO., KS.
Drilling Completed: 01/29/2014

Bottom Hole Coordinates:
Ground Elevation (ft): 2843' **K.B. Elevation (ft):** 2854'
Logged Interval (ft): 1863' SURFTo:E 5675' **Total Depth (ft):** 5675'
Formation: MISSISSIPPIAN "ST. LOUIS"
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL. & MUD DISPLACEMENT @ 3016'.
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: McCOY PETROLEUM CORPORATION KCC LIC. NO. # 5003
Address: 8080 E. CENTRAL, STE. 300
WICHITA, KANSAS 67206-2366

GEOLOGIST

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

CASINGS & DEVIATION

Surface Casing: Spud at 8:45 pm on 01/14/14. Drilled 12-1/4" to 1838'. Ran 44 joints of new 24#, 8-5/8" casing. Tallied 1816.' Set at 1833' KB. Welded straps on shoe, bottom 3 joints and top 2 joints. Tacked collars on the remainder. (4) Centralizers on joints 1-3-5-27. Basket at 741'. Float insert in top of 1st joint. Cemented with 670 sks lass A; 6% Gel; 3% CC; 1/4# FS. Plus tailed with 200 sks Class A; 3% CC, & 1/4# FS. Cement did circulate. Plug down at 5:00 pm on 01/16/14. Allied Cementing ticket #53059. NOTE: After 2 hours cement had fallen to 48' below GL. Cemented from top with 110 sks Class A Neat; 3% CC.

Deviation Survey's: @ 1838' = 1/2 degree; @ 4004' = 3/4 degree; @ 4720' = 3/4 degree; @ 5235' = 1 degree; @ 5675' = 3/4 degree.

DSTs

~~DST # 1~~ Interval = 4689' - 4720'. Times: 5"- 60"- 90"-120";

Blow: IF= Weak Surface/1.5". No Blow Back. FF= Weak Building To Fair/9.5". No Blow Back.

Recovery: 60' GIP; 120' TF: 60' SWCM (w/Scum O & 18% W, 85% M, & 60' MCW w/Scum O & 75% W, & 25% M).

Pressures: IH=2328#; FH=2274#; IF=25-52#; FF=52-70#; ISIP =1076#; FSIP=1020#; Temp=117 degrees F.

~~DST # 2~~ Interval: 4938'-4996'. Times: 5"-90"-90"-120";

Blow: IF= Strong BOB/3". FF= Strong BOB/1". Blow Back = 3"/ Died in 98".

Recovery: 1980' GIP; 300' TF: 60' GSWCM (5% G & Hvy O Scum; 85% M & 10% W); 60' GSMCW. (10% G, Scum O, 50% W. 40% M) & 180' GSMCW (10% G, Scum O, 80% Wtr, & 10% M).

Pressures: IH = 2409#; FH = 2351#; IF= 36-50#; FF =56-150#; ISIP =1492#; FSIP =1397#; Temp =122 degrees F.

API RW= 0.141 @ 55 degrees F.; Chl.= 65,000 Ppm.

~~DST # 3~~ Interval: 5161'- 5235'. Times: 5"-60"-90"-120".

Blow: IF= Strong BOB/3". No Blow Back. FF= Strong BOB/At Open. No Blow Back.

Recovery: 4371' GIP & 150' TF: 30' GMCO (20% G 50% O, & 30% M) & 120' GSMCO (35% G, 55% O & 10% M).

Pressures: IH = 2614#; FH= 2572#; IF=37-34#; FF=27-75#; ISIP =1407#; FSIP=1348#; Temp = 120 degrees F.

~~DST # 4~~ Interval: 5530'-5340'. Times: 5"-60"-60"-60".

Blow: IF= Weak Surface/1.5". No Blow Back. FF= Weak Surface/Died in 22". No Blow Back.

Recovery: 60' Mud.

Pressures: IH =2712#; FH =2573#; IF=30-39#; FF =43-47#; ISIP=151#; FSIP=69#;Temp =122 degrees F.

~~DST # 5~~Interval: 5540'- 5604'. Times: 5"-60"-90"-120".

Blow: IF= Strong BOB/3". No Blow Back. FF= Strong BOB/6". Built 1.5"/40" Blow Back.

Recovery: 164' GIP; 950' TF: (144' GMCW (w/Tr Oil) (10% G, 50% W & 40% M,); 248' GSMCW (w/Tr O)(10% G, 80% W & 10% M); & 558' GW (15% G & 85% W).

Pressures: IH= 2845#; FH= 2732#; IF=136-159#; FF=198-617#; ISIP=1605#; FSIP=1552#; Temp =138 degrees F.; API RW=0.237 @ 35 degrees F.; Chl.= 59,000 Ppm.

Comments

After review of all geologic samples as examined, structural correlation to offsetting prior drilled wells, combined with the fluid and pressures results from the drill stem test taken and electric log analysis, it was determined by all parties that this well appears to be non-commercial and should be plugged and abandoned.

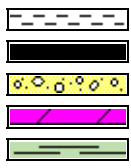
Respectfully submitted,

David P. Williams, P.G

ROCK TYPES



Anhy
Bent
Brec
Carb sh
Cht



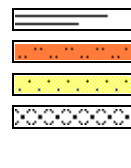
Clyst
Coal
Congl
Dol
Grn sh



Gry shale
Gyp
Igne
Lmst
Meta



Mrlst
Red shale
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Breclfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp

- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- FOSSIL**
- Algae
 - Amph

- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Fuss
- Gastro
- Oolite
- Oomold
- Ostra
- Pelec

- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Grysh
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

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

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy

- SORTING**
- Well
 - Moderate
 - Poor

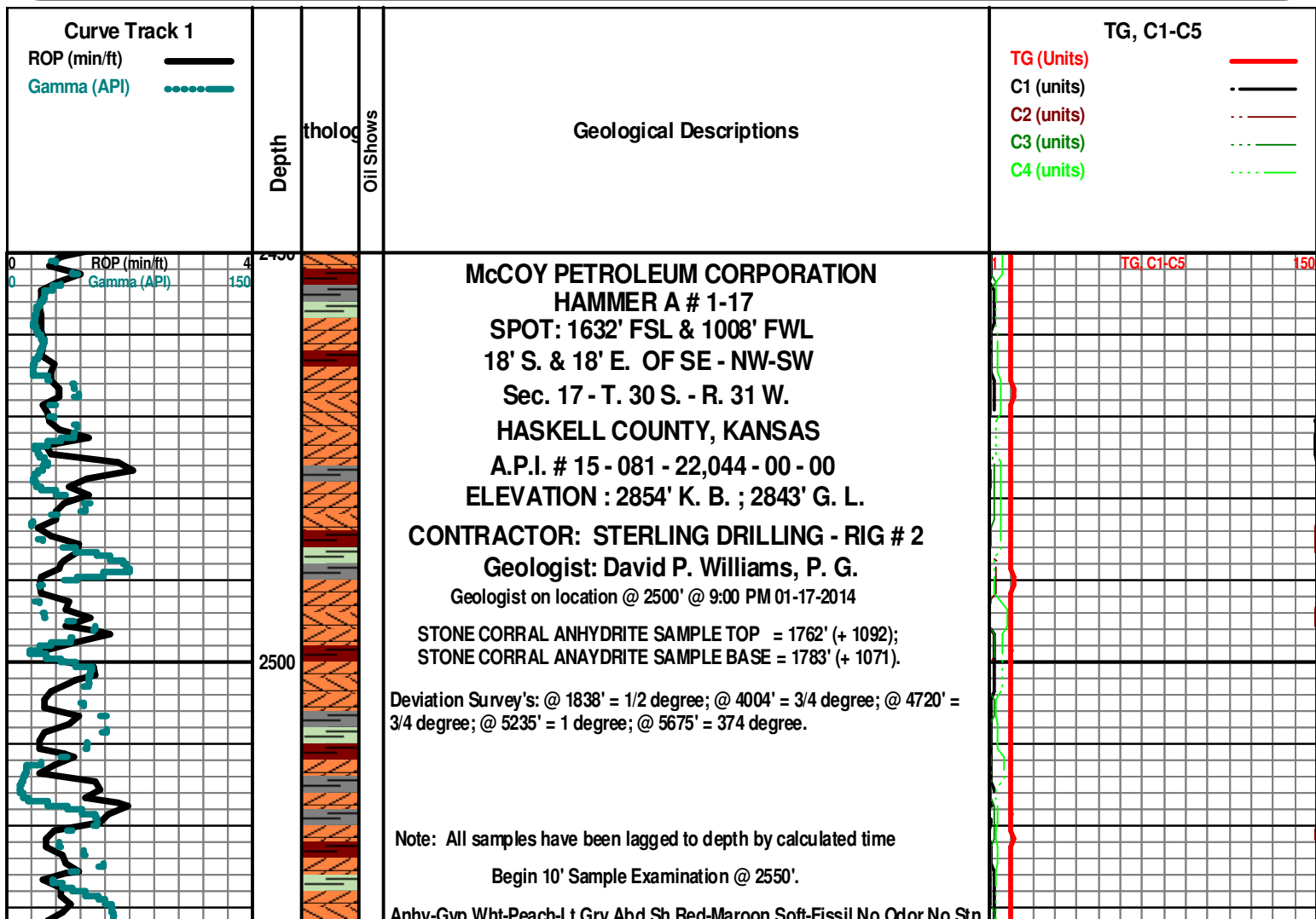
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

- Even
- Spotted
- Ques
- Dead

- EVENT**
- Rft
 - Sidewall

- OIL SHOW**
- Gas show

- INTERVAL**
- Dst
 - Dst_alt



2550

2600

2650

2700

2750

Anhy-Gyp Wht-Peach-Lt Gry Abd Sh Red-Maroon Soft-Fissil No Odor No Stn No Flor NS

Anhy-Gyp Wht-Peach-Lt Gry Abd Sh Red-Maroon Soft-Fissil No Odor No Stn No Flor NS

Anhy-Gyp Wht-Lt Gry Abd Sh Red-Maroon Soft-Fissil No Odor No Stn No Flor NS

Anhy-Gyp Wht-Lt Gry Abd Sh Red-Maroon Soft-Fissil No Odor No Stn No Flor NS

Anhy-Gyp Wht-Lt Gry Abd Dolo Lt Gry MicroxIn Dns Sh Red-Maroon Soft-Fissil No Odor No Stn No Flor NS

HOLLENBERG 2588' (+266)

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red-Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red-Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red-Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red-Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red-Gry Soft-Fissil No Odor No Stn No Flor NS

HERRINGTON 2646' (+ 208)

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red Abd -Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red Abd -Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red Abd -Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red Abd -Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red Abd -Gry Soft-Fissil No Odor No Stn No Flor NS

KRIDER 2702' (+ 156)

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red Abd -Gry Soft-Fissil No Odor No Stn No Flor NS

Dolo Gry MicroxIn Dns Micrite Anhy/Gyp AA Sh Red Abd -Gry Soft-Fissil No Odor No Stn No Flor NS

Sh Gry-Red-Char (Wash Red) Dolo AA Anhy/Gyp AA No Odor No Flor No Stn NS

WINFIELD 2728' (+ 126)

Dolo Crm MicroxIn-FxIn Dns Micrite Grad Poor Sucrosic IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Dolo Crm MicroxIn-FxIn Dns Micrite Grad Poor Sucrosic IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

@ 2562' GAS TEST AT EXTRACTOR. & GEOTRAILER.

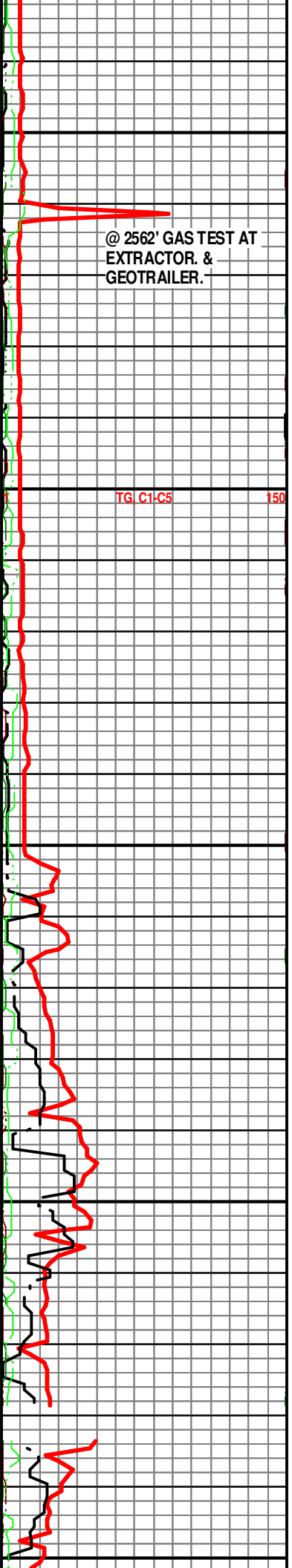
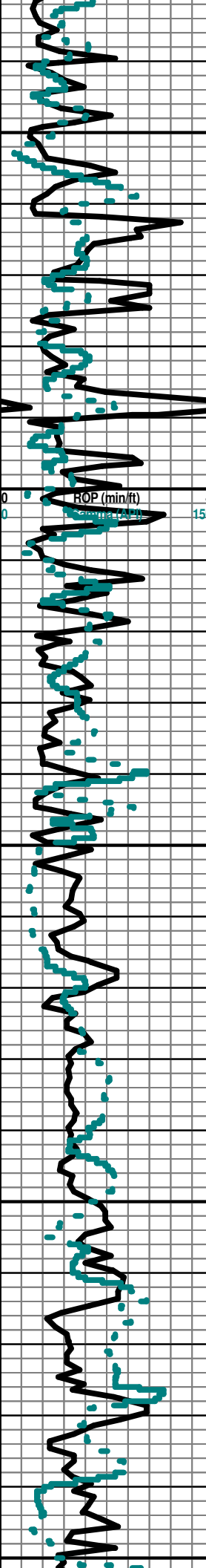
TG C1-C5

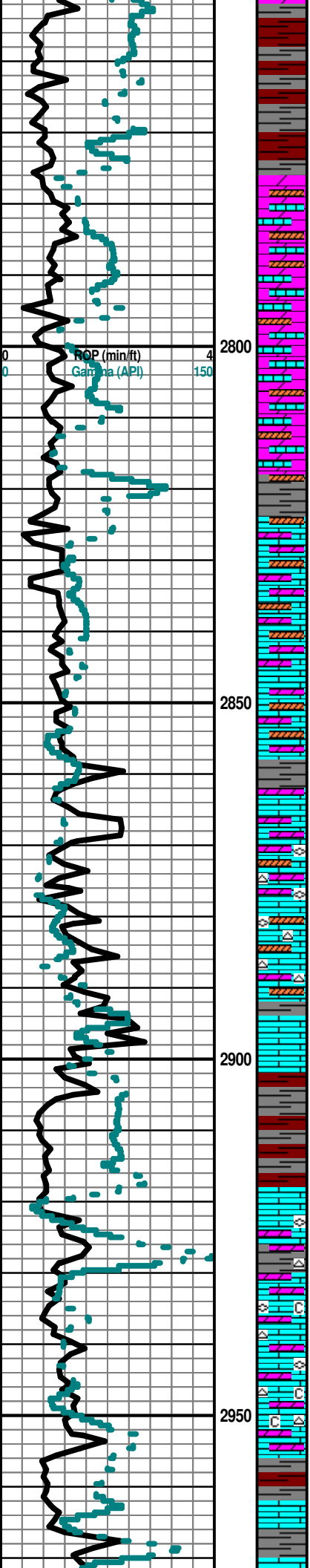
150

ROP (min/ft)

4

150





Sh Gry-Red-Char (Wash Red) Dolo AA Anhy/Gyp AA No Odor No Flor No Stn NS

Sh Gry-Red-Char (Wash Red) Dolo AA Anhy/Gyp AA No Odor No Flor No Stn NS

Sh Gry-Red-Char (Wash Red) Dolo AA Anhy/Gyp AA No Odor No Flor No Stn NS

TOWANDA 2766' (+ 88)

Dolo/Ls Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Dolo/Ls Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Dolo/Ls Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Dolo/Ls Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

FORT RILEY 2825' (+ 29)

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

FLORENCE 2862' (- 8)

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Wht (w/Fos (Fuss)) Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Wht (w/Fos (Fuss)) Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Wht (w/Fos (Fuss)) Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Sh Gry-Red-Char (Wash Red) Dolo AA Anhy/Gyp AA No Odor No Flor No Stn NS

Sh Gry-Red-Char (Wash Red) Dolo AA Anhy/Gyp AA No Odor No Flor No Stn NS

Sh Gry-Red-Char (Wash Red) Dolo AA Anhy/Gyp AA No Odor No Flor No Stn NS

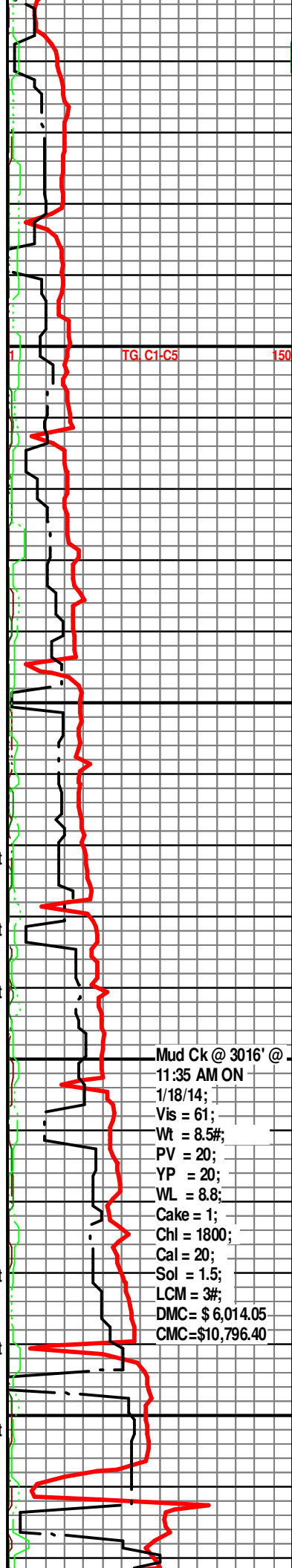
Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Wht (w/Fos (Fuss)) Chalky (V Abd) Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Wht (w/Fos (Fuss)) Chalky (V Abd) Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

Ls/Dolo Crm MicroIn-FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Wht (w/Fos (Fuss)) Chalky (V Abd) Sh AA Anhy/Gyp AA No Odor No Stn No Flor NS

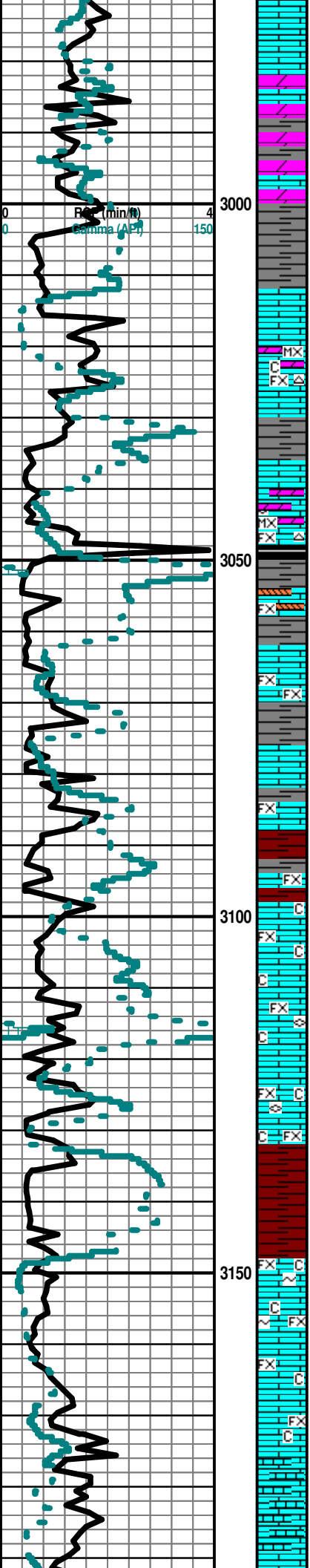
WREFORD 2964' (- 110)

No Sample Caught Stuck Drilling



TG, C1-C5

Mud Ck @ 3016' @ 11:35 AM ON 1/18/14;
 Vis = 61;
 Wt = 8.5#;
 PV = 20;
 YP = 20;
 WL = 8.8;
 Cake = 1;
 Chl = 1800;
 Cal = 20;
 Sol = 1.5;
 LCM = 3#;
 DMC = \$ 6,014.05
 CMC = \$10,796.40



No Sample Caught Stuck Drillpipe
 No Sample Caught Stuck Drillpipe
 No Sample Caught Stuck Drillpipe

COUNCIL GROVE GROUP 3012' (- 158)

**MUD DISPLACEMENT @ 3016'
 START 20' SAMPLE EXAMINATION AT 3020'**

Ls/Dolo Crm-Gry Microxln-Fxln Dns Micrite Grad Poor Ixln-Intergran Por Barren Cht Wht Chalky Sh Maroon-Red-Char-Gry Soft-Fissil (Wash Red) No Odor No Stn No Flor NS

Ls Wht Fxln Dns Micrite Grad /Dolo Gry Microxln Dns Micrite Barren Cht Wht Chalky Fos (Fuss) Sh Maroon-Red-Char-Gry Soft-Fissil (Wash Red) No Odor No Stn No Flor NS

NEVA 3062' (- 208)

Ls Wht Fxln Dns Micrite Grad Poor Intergran Por Barren Chalky (V Abd) Sh Maroon-Red-Lt Aqua Soft-Fissil No Odor No Stn No Flor NS

FORAKER 3094' (- 240)

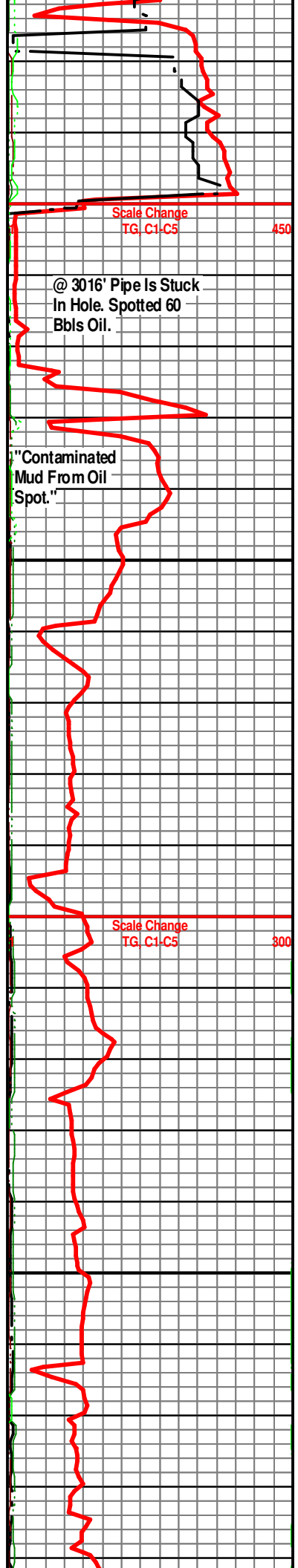
Ls Wht Fxln Dns Micrite Barren (w/Fos (Fuss) Includ) Chalky (V Abd) Sh Red -Maroon -Char Soft-Fissil No Odor No Stn No Flor NS

Ls Wht Fxln Dns Micrite Barren (w/Fos (Fuss) Includ) Chalky (V Abd) Sh Red-Maroon-Char Soft-Fissil No Odor No Stn No Flor NS

Ls Wht Fxln Dns Micrite Barren Chalky (V Abd) Sh Red-Maroon-Lt Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht Fxln Dns Micrite (Tr Glacu Includ) Barren Chalky Sh Red -Maroon -Lt Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht Fxln Dns Micrite Barren Chalky Sh Maroon -Red -Char -Gry -Lt Aqua Soft-Fissil No Odor No Stn No Flor NS

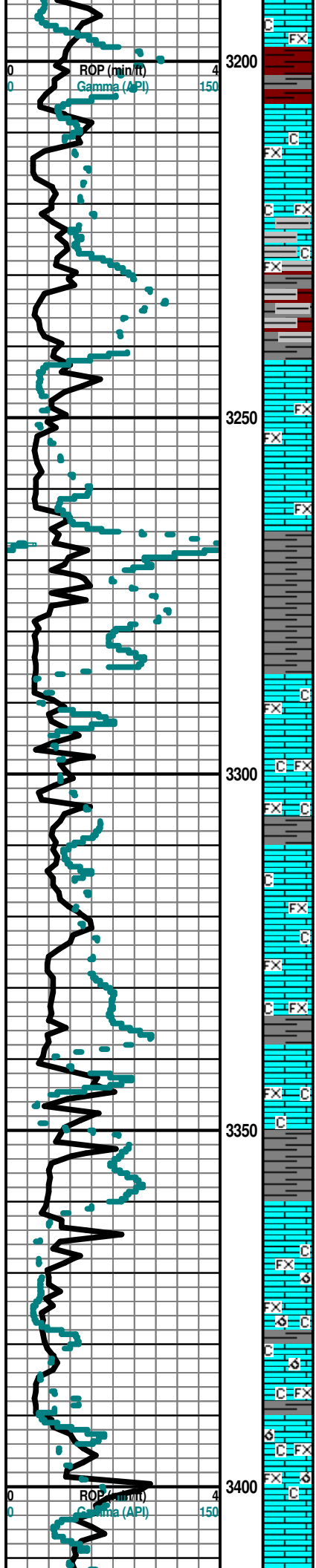


Scale Change TG, C1-C5 450

@ 3016' Pipe Is Stuck In Hole. Spotted 60 Bbls Oil.

"Contaminated Mud From Oil Spot."

Scale Change TG, C1-C5 800



Ls Wht FxIn Dns Micrite Barren Chalky Sh Maroon -Red -Char -Gry -Lt Aqua
Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Gry FxIn Dns Micrite Barren Chalky (V Abd) Sh Maroon -Red -Char
-Gry- Lt Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Gry FxIn Dns Micrite Barren Chalky (V Abd) Sh Maroon -Red- Char
-Gry- Lt Aqua Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Tan FxIn Dns Micrite AA Grad Good OOM Por Good Vug Leaching
Good Dissolu Sh Red-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Grn/Gry FxIn Dns Micrite (w/Fos Inklus) Sh Red -Maroon -Char -Gry
Soft No Odor No Stn No Flor NS

Ls Wht-Gry FxIn Dns Micrite Barren Chalky (V Abd) Sh Maroon -Red- Char
-Gry- Lt Aqua Soft-Fissil No Odor No Stn No Flor NS

Sh Char-Drk Gry-Maroon Soft-Fissil Ls Wht-Gry FxIn Dns Micrite Barren
Chalky No Odor No Stn No Flor NS

Sh Char-Drk Gry-Maroon Soft-Fissil Ls Wht-Gry FxIn Dns Micrite Barren
Chalky No Odor No Stn No Flor NS

Sh Char-Drk Gry-Lt Gry-Maroon Soft-Fissil Ls Wht-Gry FxIn Dns Micrite
Barren Chalky No Odor No Stn No Flor NS

Ls Wht-Gry FxIn Dns Micrite Barren Grad Good OOM Por Deep Vug
Leaching Good Dissolu Chalky Sh Char-Drk Gry- Lt Gry Soft-Fissil No Odor
No Stn No Flor NS

Ls Wht-Gry FxIn Dns Micrite Barren Grad Good OOM Por Deep Vug
Leaching Good Dissolu Chalky Sh Char-Drk Gry- Lt Gry Soft-Fissil No Odor
No Stn No Flor NS

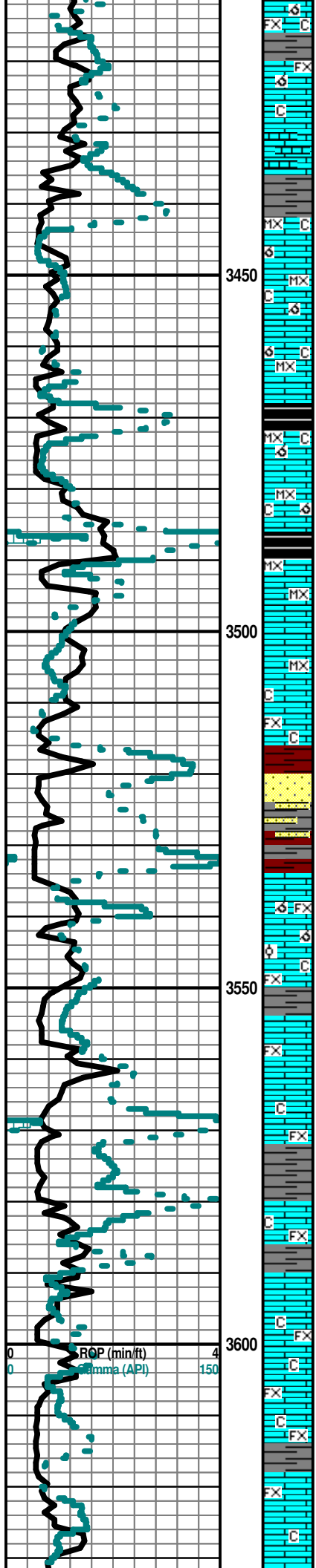
FALL CITY 3402' (- 548)

TG, C1-C5

800

TG, C1-C5

800



Sh Char-Drk Gry-Lt Gry-Maroon Soft-Fissil Ls Wht-Gry FxIn Dns Micrite
Barren Grad Good OOM Por Deep Vug Leaching Good Dissolu Chalky No
Odor No Stn No Flor NS

Ls Wht MicroxIn Dns Micrite Chalk (V Abd) Sh Char-Drk Gry-Lt Gry No Odor
No Stn No Flor NS

Ls Wht-Crm-Tan-Gry MicroxIn FxIn Dns Micrite Barren Grad Med-Good OOM
Por Med Vug Leaching Med Dissolu Chalky Sh Char-Drk Gry- Lt Gry
Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry MicroxIn FxIn Dns Micrite Barren Grad Med-Good OOM
Por Med Vug Leaching Med Dissolu Chalky Sh Char-Drk Gry- Lt Gry
Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Gry MicroxIn Dns Micrite Chalky (Abd) Sh Char -Gry - Maroon No
Odor No Stn Sli ? Min Flor NS

ROOT SHALE 3516' (- 662)

Sh Char-Gry-Maroon Soft-Fissil Ls Wht-Gry FxIn Dns Micrite AA Barren
Chalky No Odor Sli ? Min Flor No Stn NS

STOLER 3534' (- 680)

Ls Wht FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Grad Poor OOM Por
(w/Small OOids in pl) Poor Develop Poor Leaching Chalky Sh
Char-Gry-Maroon Sli ? Min Flor No Odor No Stn NS

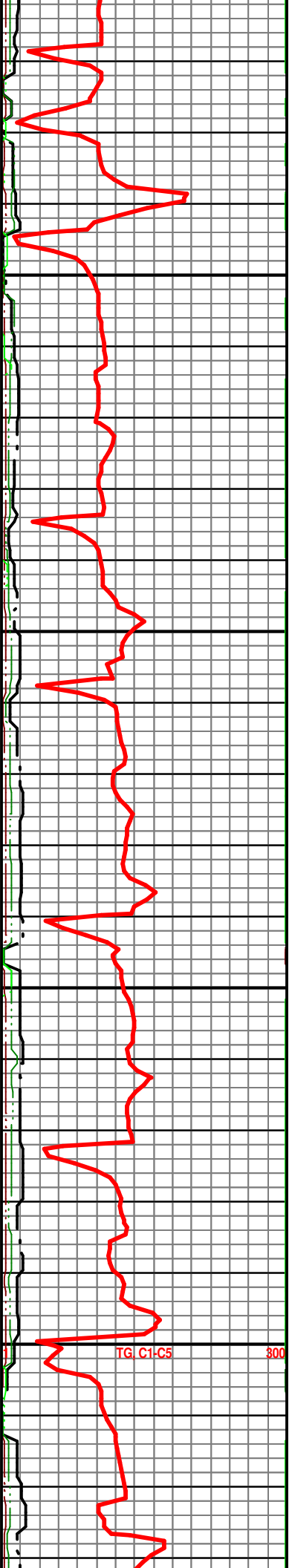
Ls Wht FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh Char-Gry
-Maroon Sli ? Min Flor No Odor No Stn NS

TARKIO 3582' (- 728)

Ls Wht FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh Char-Gry
-Maroon Sli ? Min Flor No Odor No Stn NS

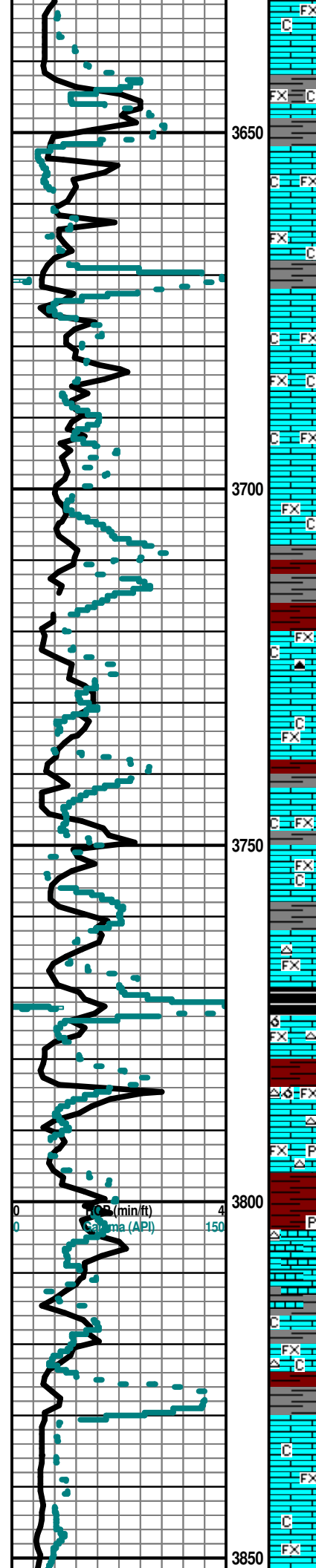
Ls Wht FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh Char-Gry
-Maroon Sli ? Min Flor No Odor No Stn NS

Ls Wht FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh Char-Gry
-Maroon Sli ? Min Flor No Odor No Stn NS



TG, C1-C5

800



Ls Wht FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh Char-Gry
-Maroon Sli ? Min Flor No Odor No Stn NS

Ls Wht FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh Char-Gry
-Maroon Sli ? Min Flor No Odor No Stn NS

BERN 3672' (- 818)

Ls Wht FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh Char-Gry
-Maroon Sli ? Min Flor No Odor No Stn NS

Ls Wht-Gry FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh
Char-Gry -Maroon Sli ? Min Flor No Odor No Stn NS

Ls Wht-Gry FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Cht Drk Gry-Blk
Op Shp Vit Chalky Sh Char-Gry -Maroon Sli ? Min Flor No Odor No Stn NS

Ls Wht-Gry FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky Sh
Char-Gry -Maroon Sli ? Min Flor No Odor No Stn NS

Ls Wht-Gry FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Cht Wht Op Shp
Vit Chalky Sh Char-Gry -Maroon Sli ? Min Flor No Odor No Stn NS

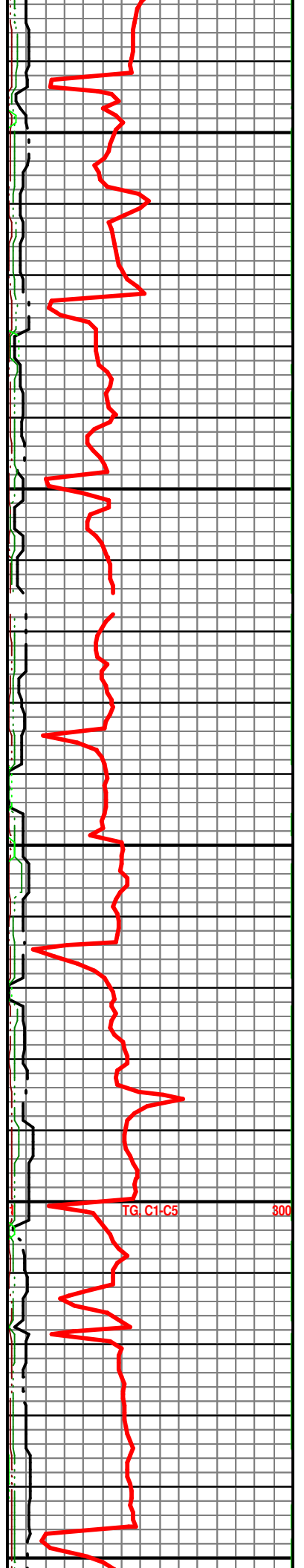
TOPEKA 3724' (- 870)

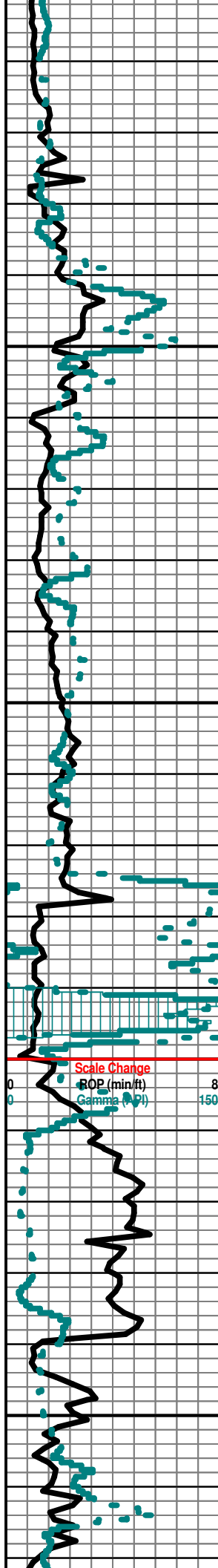
Ls Wht-Gry FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Grad Fair OOM
Por Fair-Med Develop Fair-Med Leaching Cht Wht Op Shp Vit Chalky Sh
Char-Gry -Maroon Sli ? Min Flor No Odor No Stn NS

Ls Wht w/Pyr Includ-Crm FxIn Poor IxIn Por Mostly Micritic Dsn Barren
Chalk Wht Abd Cht Wht-Gry Op Shp Vit Sh Char-Red Fissil Soft No Odor
No Flor No Stn NS

Ls Wht-Crm FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht V Abd
Cht Wht-Gry Transl- Op Shp Vit Sh Char-Gry-Red Fissil Soft No Odor No
Flor No Stn

Ls Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht
Abd Sh Char Fissil No Odor No Flor No Stn NS





Ls Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Fos (Fuss)
Chalk Wht Abd Sh Char-Grn Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Fos (Fuss)
Chalk Wht Abd Sh Char-Grn Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht V Abd
Cht Tan- Drk Gry Transl-Op Shp Vit Fos (Fuss) Sh Char-Grn Fissil Soft No
Odor No Flor No Stn NS

Ls Wht-Crm FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht V Abd
Cht Tan- Drk Gry Transl-Op Shp Vit Sh Char-Grn Fissil Soft No Odor No
Flor No Stn NS

Ls Wht-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht V Abd
Cht Tan- Drk Gry Transl-Op Shp Vit Sh Char-Grn Fissil Soft No Odor No
Flor No Stn NS

Ls Wht-Crm FxIn-MicroxIn Poor IxIn Por Mostly Micritic Dsn Barren V Chalk
Wht V Abd Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

Sh Blk Carb (w/GSG)-Char-Gry Fissil Ls Wht-Gry FxIn Poor IxIn Por Mostly
Micritic Dsn Barren (w/Pry Incls) Chalk Wht Abd Cht Wht-Gry-Drk Gry Op
Shp Vit No Odor No Flor No Stn GSG in Blk Sh

LeCOMPTON 3998' (- 1144)

LS Wht-Crm FxIn Poor-Fair IxIn Por Grad Chalk V Abd Wht Abd Sh Char
Fissil No Odor No Flor No Stn NS

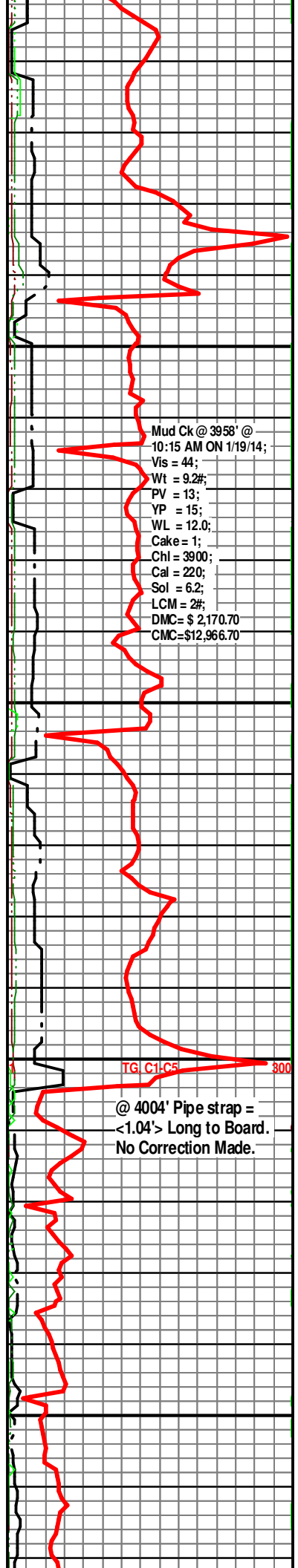
LS Wht-Gry FxIn Poor IxIn Por Grad MxIn GrnStone P-F IxIn Por Chalk Wht
Abd Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht Abd
Sh Char-Blk Char Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Tr Sli Vug
IxIn Leached Por Barren Chalky (V Abd) Sh Blk Carb -Char -GrySoft-Fissil
No Odor No Flor No Stn NS

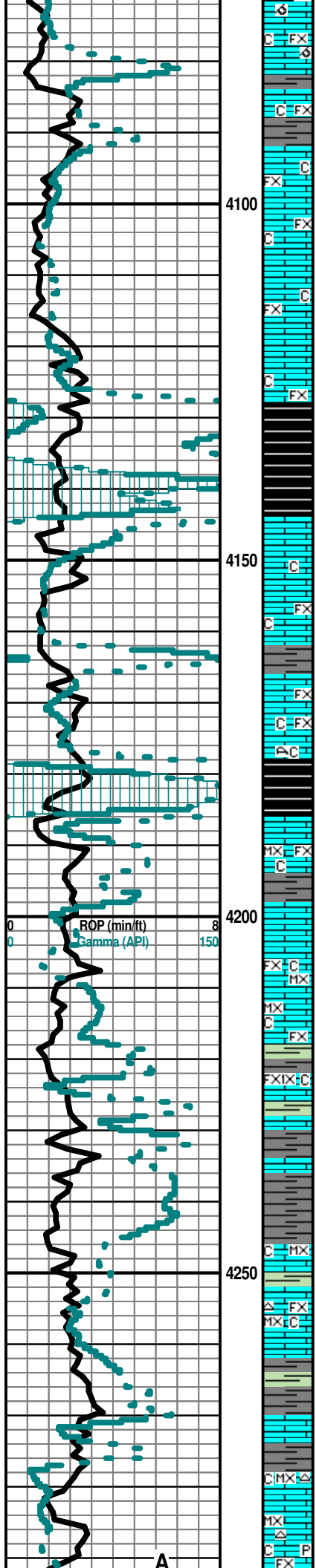
AT 4100' START 10' WET & DRY SAMPLES

Ls Crm-Tan FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Grad Poor OOM



Mud Ck @ 3958' @
10:15 AM ON 1/19/14;
Vis = 44;
Wt = 9.2#;
PV = 13;
YP = 15;
WL = 12.0;
Cake = 1;
ChI = 3900;
Cal = 220;
Sol = 6.2;
LCM = 2#;
DMC = \$ 2,170.70
CMC = \$12,966.70

TG C1-C5 300
@ 4004' Pipe strap =
<1.04'> Long to Board.
No Correction Made.



Por Crm-Dissolu Poor Leaching Chalky (Abd) Sh Char-Gry-Blk Carb-Maroon Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky (Abd) Sh Char-Gry-Blk Carb-Maroon Soft-Fissil No Odor No Flor No Stn

Ls Crm-Tan FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky (Abd) Sh Char-Gry-Blk Carb-Maroon Soft-Fissil No Odor No Flor No Stn

Ls Crm-Tan FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky (V Abd "Gummy") Sh Char-Gry-Blk Carb Inc Soft-Fissil No Odor No Flor No Stn

Ls Crm-Tan FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky (V Abd "Gummy") Sh Char-Gry-Blk Carb Inc Soft-Fissil No Odor No Flor No Stn

Ls Crm-Tan FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky (V Abd "Gummy") Sh Char-Gry-Blk Carb Inc Soft-Fissil No Odor No Flor No Stn

Ls Crm-Tan FxIn Dns Micrite Grad Poor-Fair Pin-Pt IxIn Por Chalky (V Abd "Gummy") Sh Char-Gry-Blk Carb Inc Soft-Fissil No Odor No Flor No Stn

PLATTSMOUTH 4145' (- 1290)

Sh Blk Carb-Char-Gry (w/GSG) Ls Crm-Tan FxIn Dns Micrite Grad Tr Fair Pin-Pt IxIn Por (w/SSG) No Odor No Stn No Flor GSG in Blk Carb Sh

SH GAS KICK = 118 UNITS.

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor IxIn Pin-Pt Por Barren Chalky (Abd) Sh Grn-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor IxIn Pin-Pt Por Barren Chalky (Abd) Sh Grn-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Spl. Trap Left Open.

Ls Wht-Crm-Gry FxIn Dns Micrite Fos (Coral ?) Chalky (Abd) Sh Grn-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

HEEBNER 4178' (-1324)

Sh Blk Carb (w/GSG)-Drk Gry (w/ GSG) Fissil Ls AA Cht AA No Odor No Flor No Stn GSG in Blk Sh

Ls Wht-Crm-Gry FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

TORONTO 4198' (- 1344)

Ls Wht-Crm-Gry FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

TG C1-C5 800

Ls Wht-Crm-Tan FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

DOUGLAS 4226' (- 1372)

Ls Wht-Crm-Tan FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

IATAN (BROWN LIME) 4271' (- 1417)

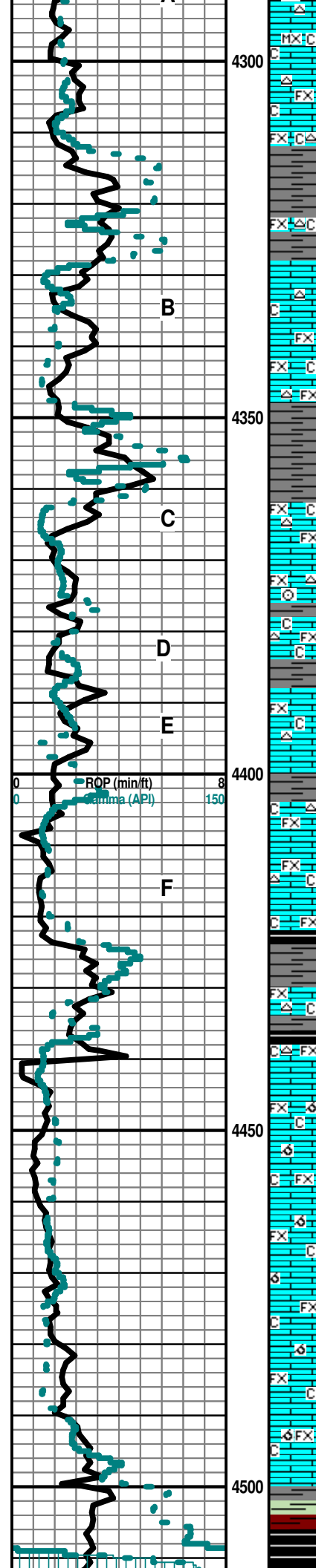
LANSING 4287' (- 1433)

Ls Wht-Crm-Tan FxIn/MicroxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Gm-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn Dns Micrite (w/Pyr Inklus) Grad Poor FxIn Pin-Pt IxIn Por Cht Wht-Tan Op Shp Vit Chalky Sh Grv-Char-Blk Carb Fissil No Odor No

Mud Ck @ 4261' @
 6:55 AM ON
 1/20/14;
 Vis = 56;
 Wt = 8.9#;
 PV = 18;
 YP = 18;
 WL = 8.8;
 Cake = 1;
 Chl = 1750;
 Cal = 20;
 Sol = 4.3;
 LCM = 3.5#;
 DMC = \$2,532.45

A



Stn No Flor NS

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

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

Ls Wht-Crm-Gry FxIn Dns Micrite Cht Wht-Tan (Banded w/ Fos Includ) Op Shp Vit Chalky Sh Grn-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Crm-Gry FxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Grn-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Micrite Cht Wht-Tan (Banded) Op Shp Vit Chalky Sh Grn-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Grn-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Tan (Banded w/Fos Includ) Op Shp Vit Chalky Sh Grn-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Tan (Banded w/Fos Includ) Op Shp Vit Fos (Crin) Chalky Sh Grn-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Crm-Amber (Banded w/Fos Includ) Translu-Op Shp Vit Chalky Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Tan-Gry (Banded w/Fos Includ) Op Shp Vit Chalky (Abd) Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Tan (Banded w/Fos Includ) Op Shp Vit Chalky (Abd) Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Tan (Banded w/Fos Includ) Op Shp Vit Chalky (Abd) Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Tan (Banded w/Fos Includ) Op Shp Vit Chalky (Abd) Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Cht Tan Op Shp Vit Chalky (Abd) Sh Carb-Gry Fissil No odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Chalky (V Abd) Sh Blk Carb- Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Med-Good OOM Por Med-Good Vug Leaching Med-Good Develop Barren Chalk (V Abd) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor (" Sli ? Min Flor) NS

Ls Crm-Tan-Gry FxIn Med-Good OOM Por Med-Good Vug Leaching Med-Good Develop Barren Chalk (V Abd) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor (" Sli ? Min Flor) NS

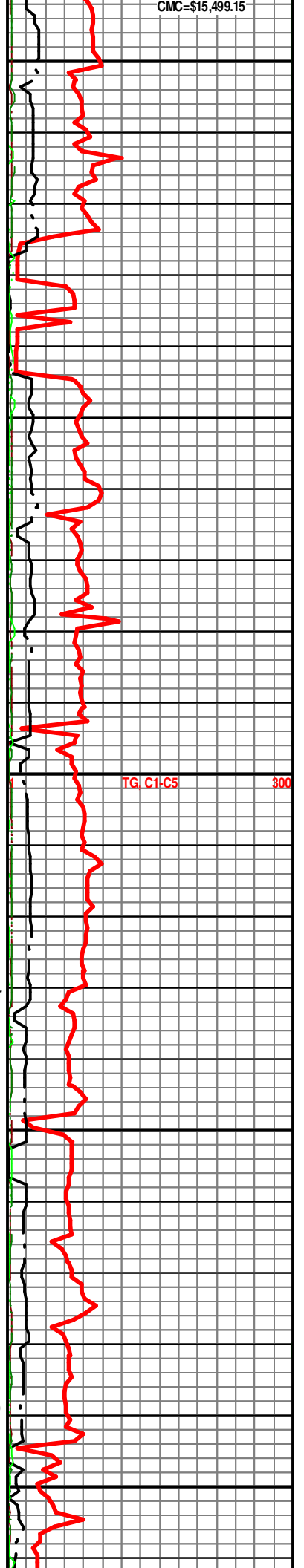
Ls Crm-Tan-Gry FxIn Med-Good OOM Por Med-Good Vug Leaching Med-Good Develop Barren Chalk (V Abd) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor (" Sli ? Min Flor) NS

Ls Crm-Tan-Gry FxIn Med-Good OOM Por Med-Good Vug Leaching Med-Good Develop Barren Chalk (V Abd) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor (" Sli ? Min Flor) NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Grad Tr OOM Por AA Cht Wht-Crm-Amber (Banded) Op Shp Vit Chalky Sh Carb-Gry Fissil No Odor No Stn No Flor NS

MUNCIE CREEK SHALE 4500' (- 1646)

Sh Char-Gry/Grn-Maroon Soft Fissil Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Cht Wht-Crm-Amber (Banded) Op Shp Vit Chalky No Odor No Stn No Flor NS



LANSING "G" 4514' (- 1660)

Sh Blk Carb-Gry/Grn-Maroon Fissil Ls Crm-Tan-Gry FxIn Dns Micrite Grad Pin-Pt IxIn Por Baren Chalky (Abd) No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Med-Good OOM Por Med-Good Vug Leaching Med-Good Develop Barren Chalk (V Abd) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor (" Sli ? Min Flor) NS

Ls Crm-Tan-Gry FxIn Med-Good OOM Por Med-Good Vug Leaching Med-Good Develop Barren Chalk (V Abd) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor (" Sli ? Min Flor) NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Grad Tr OOM Por AA Fos (Brach) Chalky Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Chalky (V Abd) Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan-Gry FxIn Dns Micrite Chalky (V Abd) Sh Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan MicroxIn Dns Micrite Chalky (Abd) Cht Wht (w/ Fos (Spicule) Includ) Sh Blk Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry MicroxIn Dns Micrite Grad Poor OOM Por Poor Deelop Poor Leaching Vug Por Barren Chalky (Abd) Cht Wht (w/ Fos (Spicule) Includ) Sh Blk Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry MicroxIn Dns Micrite Barren Chalky (Abd) Cht Gry-Drk Gry-Blk Sh Blk Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Tan-Gry MicroxIn Dns Micrite Barren Chalky (Abd) Cht Amber -Gry Sh Blk Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad Poor OOM Por Poor Develop Poor Leaching Vug Por Barren Chalky (V Abd) Cht Gry Sh Blk Carb-Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad Poor OOM Por Poor Develop Poor Leaching Vug Por Barren Chalky (V Abd) Cht Gry Sh Blk Carb-Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad Poor OOM Por Poor Develop Poor Leaching Vug Por Barren Chalky (V Abd) Cht Drk Gry Sh Blk Carb-Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Tan-Gry MicroxIn Dns Micrite (w/Fos (Spicule) Includ) Barren Chalky (Abd) Cht Drk Gry Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad Poor-Fair OOM Por Poor Develop Poor Leaching Vug Por Barren Chalky (Dec) Cht Wht-Gry (Banded) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad Poor-Fair OOM Por Poor Develop Poor Leaching Vug Por Barren Chalky (Dec) Cht Wht-Gry (Banded) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry MicroxIn Dns Micrite Barren Chalky (Dec) Cht Wht-Gry (Banded) Fos (Crin) Sh Char-Grn/Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Brn MicroxIn Dns Micrite Barren Chalky (Dec) Sh Char-Gry Fissil No Odor No Stn No Flor NS

STARK 4686' (- 1832)

30" CFS @ 4715' Sh- Blk Carb-Char Fissil Ls Wht-Crm-Tan FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor Pin-Pt IxIn Por Cht Amber-Tan Op Shp Vit Chalk (V Abd) Good Odor Sli ? Flor Sli ? Stn (Lt Grn) ? SSG

KANSAS CITY "SWOPE" (K) Ø 4700' (- 1846)

60" CFS @ 4715' Ls Wht-Crm-Tan FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Develop Poor Leaching Cht Tan Op Shp Vit Chalk (Abd) Med-Good Odor Sli ? Flor Sli ? Stn (Lt Grn) ? SSG

60" CFS @ 4720' Ls Wht-Crm-Tan FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor Pin-Pt IxIn Por Grad Fair OOM Por Poor-Fair InterOOM Develop Poor-Fair Leaching Cht Wht-Gry Op Shp Vit Chalk (Abd) Med-Good Odor Sli ? Flor Sli ? SG Drk Brn Stn (? Dead) ? SSG

Ls Wht-Crm-Tan FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Cht Wht-Gry Op Shp Vit Chalk (Abd) No Odor No Flor No Stn NS

Ls Wht-Crm-Tan FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Cht Wht-Gry Op

4550

4600

4650

4700

DST # 1 4689' - 4720'

CFS @ 4715' 30" - 60"
CFS @ 4720' 60"

TG C1-C5 300

~ DST # 1 ~
Interval = 4689' - 4720'
Times: 5" - 60" - 90" - 120";

Blow: IF= Weak Surface 3/4"
No Blow Back. FF= Weak Building To Fair Blow 9.5".
No Blow Back.

Recovery: 60' GIP; 120' TF:
60' SWCM (w/Scum Oil & 18% Wtr, 85% M); & 60' MCW (w/Scum Oi & 75% Wtr, 25% M)..

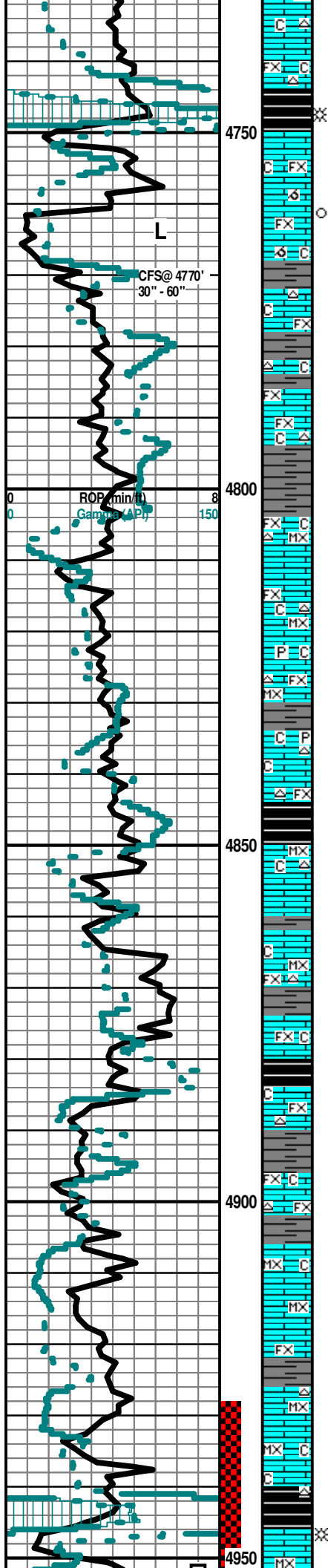
Pressures:
IH = 2328#;
FH = 2274#;
IF = 25-52#;
FF = 52-70#;
ISIP = 1076#;
FSIP = 1020#;
Temp= 117 degrees F.

SH GAS KICK= 142 UNITS

GAS KICK= 116 UNITS

Mud Ck @ 4720' @ 6:50 AM ON

1/21/14;
Vis = 559;
Wt = 9.1#;
PV = 19;
YP = 20;
WL = 8.0;
Cake = 1;
Chl = 1800



Shp Vit Chalk (Abd) No Odor No Flor No Stn NS

Ls Wht-Crm-Tan FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Cht Wht-Gry Op
 Shp Vit Chalk (Abd) No Odor No Flor No Stn NS
HUSHPUCKNEY SHALE 4744' (- 1890)

KANSAS CITY "HERTHA" (L) 4750' (- 1896)

30" CFS@ 4770' Sh Blk Carb-Char Fissil Ls Wht-Crm FxIn Good OOM Por (w/Med-OOids in pl)
 Med-Good Develop Med Dissolu Tr Vup Leached InterOOM Por Barren Grad Dns Micrite
 Chalky No Odor No Stn No Flor NS

HERTHA Ø 4761' (- 1907)

60" CFS@ 4770' Ls Wht-Crm-Tan FxIn Good OOM Por (w/ Med - OOids in pl) Med - Good
 Develop Med Dissolu Tr Vup Leached InterOOM Por Barren Grad Dns Micrite Chalky Sh Blk
 Carb-Char Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Good OOM Por (w/ Med - OOids in pl) Med - Good Develop Med Dissolu
 Tr Vup Leached InterOOM Por Barren Grad Dns Micrite Cht Gry Op Shp Vit Chalky Sh Blk
 Carb-Char Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/ Med-Small OOids in pl) Med Develop Med Dissolu
 Barren Grad Dns Micrite Cht Gry Op Shp Vit Chalky Sh Blk Carb-Char Fissil No Odor No Stn
 No Flor NS

BASE KANSAS CITY 4794' (- 1940)

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/ Med-Small OOids in pl) Med Develop Med Dissolu
 Barren Grad Dns Micrite Cht Gry Op Shp Vit Chalky Sh Gry-Char- Blk Carb Fissil No Odor No
 Stn No Flor NS

Ls Tan-Gry FxIn-MicroIxIn Dns Micrite Cht Gry Op Shp Vit Sh Char- Gry -Blk
 Carb Fissil No Odor No Flor No Stn NS

Ls Tan-Gry FxIn-MicroIxIn Dns Micrite Cht Gry Op Shp Vit Sh Char- Gry -Blk
 Carb Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry (w/Pyr Incls) FxIn-MicroIxIn Dns Micrite Cht Gry Op Shp Vit
 Sh Char- Gry -Blk Carb Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry (w/Pyr Incls) FxIn-MicroIxIn Dns Micrite Cht Gry Op Shp Vit
 Sh Char- Gry -Blk Carb Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/ Med-Small OOids in pl) Med Develop Med Dissolu
 Barren Grad Dns Micrite Cht Gry Op Shp Vit Chalky Sh Gry-Char- Blk Carb Fissil No Odor No
 Stn No Flor NS

MARMATON 4852' (- 1998)

Ls Wht-Crm-Tan-Gry MicroIxIn-FxIn Dns Micrite Sh Blk Carb-Char Fissil No Flor No Stn -No
 Odor NS

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/ Med-Small OOids in pl) Med Develop Med Dissolu
 Barren Grad Dns Micrite Cht Gry Op Shp Vit Chalky Sh Gry-Char- Blk Carb Fissil No Odor No
 Stn No Flor NS

Ls Wht-Crm-Tan-Gry MicroIxIn-FxIn Dns Micrite Sh Blk Carb-Char Fissil No
 Flor No Stn No Odor NS

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/Small-Med OOids in pl) Poor Develop Poor Dissolu
 Poor Leaching Barren Grad Dns Micrite Cht Gry Op Shp Vit Chalky Sh Gry-Char- Blk Carb
 Fissil No Odor No Stn No Flor NS

MARMATON "B" 4884' (- 2030)

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/Small-Med OOids in pl) Poor Develop Poor Dissolu
 Poor Leaching Barren Grad Dns Micrite Cht Gry Op Shp Vit Chalky Sh Gry-Char- Blk Carb
 Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/Small-Med OOids in pl) Poor Develop Poor Dissolu
 Poor Leaching Barren Grad Dns Micrite Cht Wht-Gry Op Shp Vit Fos (Crin) Chalky Sh
 Gry-Char- Blk Carb Fissil No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Poor OOM Por (w/Small-Med OOids in pl) Poor Develop Poor Dissolu
 Poor Leaching Barren Grad Dns Micrite Cht Wht-Gry Op Shp Vit Chalky Sh Gry-Char- Blk Carb
 Fissil No Odor No Stn No Flor NS

Sh Char-Gry/Grn-Aqua Fissil Ls Wht-Crm-Tan-Gry MicroIxIn-FxIn Dns Micrite
 Cht Gry- Drk-Tan Op Shp Vit No Flor No Stn No Odor NS

Sh Char-Gry-Drab Grn-Aqua Fissil Ls Crm-Tan-Brn MicroIxIn-FxIn Dns
 Micrite Cht Gry- Drk-Tan Op Shp Vit No Flor No Stn No Odor NS

Sh Char-Gry-Drab Grn-Aqua Fissil Ls Crm-Tan-Brn MicroIxIn-FxIn Dns
 Micrite Cht Gry- Drk-Tan Op Shp Vit No Flor No Stn No Odor NS

Sh Blk Carb (w/GSG)-Lt Grn-Aqua Fissil Ls Wht-Crm FxIn Dns Micrite Cht
 Tan-Amber Op Shp Vit Chalky No Odor No Stn No Flor GSG in Blk Sh

PAWNEE 4946' (- 2092)

CM = 1000;
 Cal = 20;
 Sol = 5.3;
 LCM = 2#;
 DMC = \$ 2,377.60
 CMC = \$17,876.75

SH GAS KICK = 109
 UNITS
 GAS KICK = 94
 UNITS

AT 4786' LAG DEPTH
 CHANGE OUT
 EXTRACTOR FILTER
 AND GAS TEST = 116
 UNITS.

TG C1-C5 300
 Mud Ck @ 4792' @ 7:15
 AM ON 1/22/14;
 Vis = 56;
 Wt = 9.2#;
 PV = 17;
 YP = 18;
 WL = 7.2;
 Cake = 1;
 Chl = 2300;
 Cal = 20;
 Sol = 6.3#
 LCM = 2.5#;
 DMC = \$ 807.95
 CMC = \$18,684.70

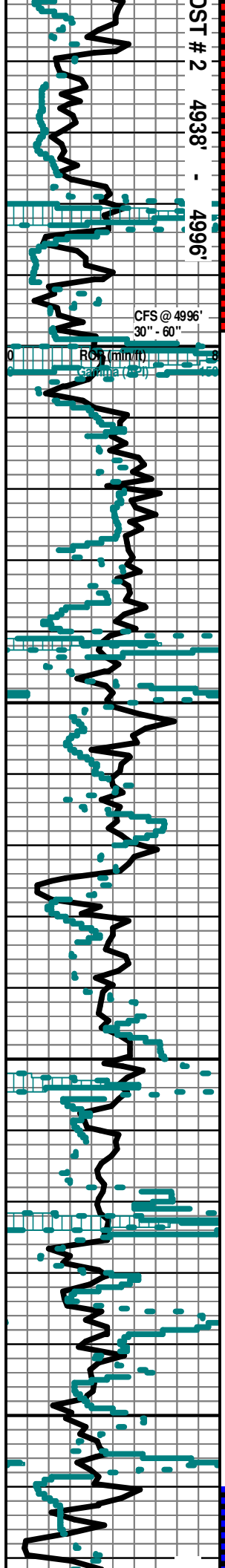
Mud Ck @ 4996' @ 7:00
 AM ON 1/23/14;
 Vis = 55;
 Wt = 9.15#;
 PV = 17;
 YP = 21;
 WL = 7.2;
 Cake = 1;
 Chl = 2000;
 Cal = 20;
 Sol = 5.6;
 LCM = 3#;
 DMC = \$1,208.30
 CMC = \$19,893.00

~DST # 2~
 Interval: 4938'-4996'.
 Times: 5"-90"-90"-120";
 Blow: IF= Strong BOB/3".
 FF= Strong BOB/1". Blow
 Back = 3"/Died in 98".

Recovery: 1980' GiP; 300' TF:
 60' GSWCM (5% G & Hvy Oil
 Scum; 85% M & 10% Wtr); 60'
 GSMCW. (10% G, Scum Oil,
 50% Wtr & 40% M); & 180;
 GSMCW (10% G, Scum Oil,
 80% Wtr, & 10% M).

Pressures:
 IH = 2409#;
 FH = 2351#;
 IF = 36-50#;
 FF = 56-150#;
 ISIP = 1492#;
 FSIP = 1397#;
 Temp = 122 degrees F.
 API RW = .141 @ 55
 degrees F.
 Chl = 65,000 Ppm.

SH GAS KICK = 124
 UNITS



Ls Crm-Ian-Brn Dns Micrite Grad Fair Pin-Pt Ixln Por (w/Fair SG & Gas Does Flor (Lt Grn) Cht Wht-Gry Op Shp Vit Sh Char-Gry-Aqua Med-Good Odor Sli Flor (Lt Grn) No Stn SG

Ls Wht Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Cht Wht-Gry Op Shp Vit Sh Char-Gry-Aqua Faint Odor No Flor No Stn NS

30" CFS @ 4996' Ls Wht Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Cht Wht-Gry Op Shp Vit Sh Char-Gry-Aqua Faint Odor No Flor No Stn NS

LABETT SHALE 4980' (- 2126)

FORT SCOTT 4984' (- 2130)

60" CFS @ 4996' Ls Wht Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Cht Wht-Gry Op Shp Vit Sh Char-Gry-Aqua Faint Odor No Flor No Stn NS

Ls Wht Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Cht Crm-Amber Translu-Op Shp Vit (w/Wht Fos Includ) Sh Blk Carb-Char Fissil No Odor Sli ? Min Flor No Stn NS

CHEROKEE SHALE 5000' (- 2146)

Ls Wht Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Cht Wht- Crm-Amber Translu-Op Shp Vit (w/Wht Fos Includ) Sh Blk Carb-Char Fissil No Odor ? Min Flor No Stn NS

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

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

Sh Char-Gry Fissil Ls Wht Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Grad Poor-Fair OOM Por (w/Small Ooids incl) Poor InterOOM Por Barren Poor Develop Poor Leaching No Odor No Flor No Stn NS

SECOND CHEROKEE SHALE 5048' (- 2194)

Sh Blk Carb (w/GSG) -Char-Gry Fissil Ls Wht Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Cht Wht Op Shp Vit Chalk No Odor No Flor No Stn GSG in Blk Sh

Ls Crm-Tan-Gry Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb (w/GSG)-Char-Gry Fissil Ls Crm-Tan-Gry Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Cht Wht Op Shp Vit Chalky No Odor No Flor No Stn GSG in Blk Sh

Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Chalky Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Qtz Ss Gry VFGm Well Sort Poor IGrn Por Dns Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Qtz Ss Gry VFGm Well Sort Poor IGrn Por Dns Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

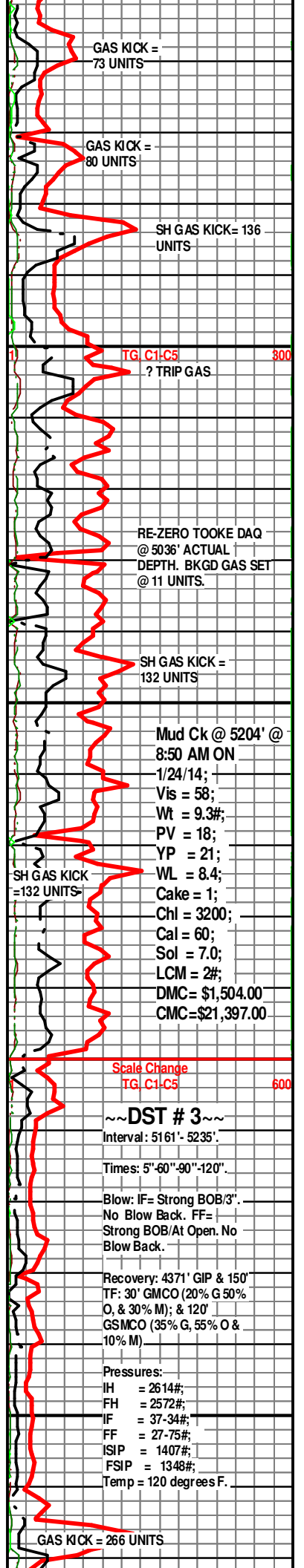
Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Qtz Ss Gry VFGm Well Sort Poor IGrn Por Dns Barren Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

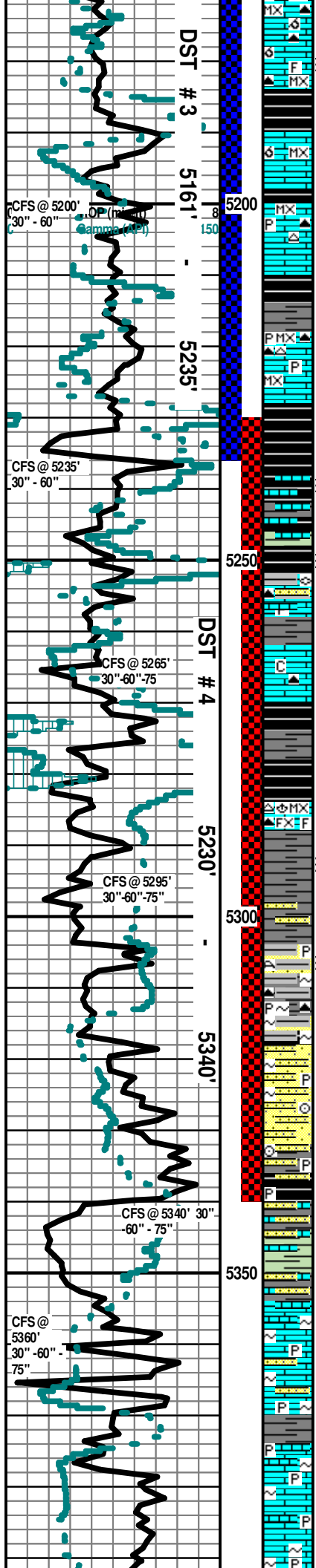
Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por (w/Pyr Includ) Barren Cht Blk Op Shp Vit Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Barren Cht Blk Op Shp Vit Chalky Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb -Char-Gry Fissil Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por (w/SSG & SSO) Cht Blk Op Shp Vit Chalky Fair Odor Sli Flor (Lt Grn) No Stn NS

Ls Crm-Tan Fxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Grad Poor-Fair OOM Por (w/SSG & SSO) Fair Leaching Fair Develop Cht Blk Op Shp Vit Chalky Fair Odor Sli Flor (Both Gas & Oil Do Flor Lt Grn) Sli Lt Brn Stn SSG & SSO





Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Grad Med-Good OOM Por (w SSG & SSO) Fair Leaching Fair Develop Cht Blk Op Shp Vit Chalky Fair Odor Sli Flor (Both Gas & Oil Do Flor Lt Grn) Sli Lt Brn Stn SSG & SSO

Ls Crm-Tan Microxln Dns Micrite Grad Poor-Fair Pin-Pt Ixln Por Grad Med-Good OOM Por (w/SSG & SSO) Med-Good Leaching Med-Good Develop Cht Blk Op Shp Vit Chalky Fair Odor Sli Flor (Both Gas & Oil Do Flor Lt Grn) Sli Lt Brn Stn SG & SO

30" CFS @ 5200' Ls Crm-Tan-Gry Microxln Dns Micrite Barren Cht Blk (w/Wht Fos Includ)-Amber-Brn Translu-Op Shp Vit Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

60" CFS @ 5200' Ls Crm-Tan-Gry Microxln Dns Micrite Barren Cht Blk (w/Wht Fos Includ)-Amber-Brn Translu-Op Shp Vit Sh Blk Carb -Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Microxln Micrite (w/Pyr Includ) Cht Wht-Brn Op Shp Vit Sh Char-Grn/Gry Fissil No Odor No Srtn No Flor NS

Sh Char-Grn/Gry Fissil Ls Crm-Gry Microxln Micrite (w/Pyr Includ) Cht Wht-Brn Op Shp Vit No Odor No Srtn No Flor NS

30" CFS @ 5235' Sh Char-Grn/Gry Fissil Ls Crm-Gry Microxln Micrite (w/Pyr Includ) Cht Wht-Brn Op Shp Vit No Odor No Srtn No Flor NS

60" CFS @ 5235' Sh Char-Grn/Gry Fissil Ls Crm-Gry Microxln Micrite Cht Wht-Brn Op Shp Vit No Odor No Srtn No Flor NS

ATOKA SHALE 5228' (- 2374)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Fxln-Microxln Micritic Grad Pin-Pt Ixln Por (w SSG & SSO) Faint Odor Inc Sli Flor SSG & SSO

30 CFS @ 5265' Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan-Brn Fxln-Microxln Micritic Grad Poor Pin-Pt Ixln Por (w/SG & SSO & Abd SFO (w/Flor Lt Grn)) Good Odor Sli Scatt Flor Inc SG & SFO

60 CFS @ 5265' Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan-Brn Fxln- Microxln Micritic Grad Poor Pin-Pt Ixln Por (w/SG & SO) ? Matted Ls Layers Cht Amber Translu Shp Vit Qtz Ss Wht-Gry Ang-Sub Ang VFGrn Poor Sort (1 Pc Cluster (w/Pyr Includ)) Barren Fos (Fuss) Chalky Fair Odor Sli Scatt Flor SSG & SSO

75 CFS @ 5265' Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan-Brn Fxln- Microxln Micritic Grad Poor Pin-Pt Ixln Por Cht Blk Op Shp Vit Fair Odor Sli Scatt Flor Dec No Stn NS

MORROW SHALE 5270' (- 2416)

30" CFS @ 5295' Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan-Brn Fxln-Microxln Micritic Grad Poor Pin-Pt Ixln Por (w/FSG) Cht Blk Op Shp Vit Fos (Brach) Fair Odor Dec No Flor Hvy Gillsonitic Blk Stn (Few Edges-2 Pcs) SSG

60" CFS @ 5295' Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan-Brn Fxln- Microxln Micritic Grad Poor Pin-Pt Ixln Por (w/FSG) Cht Blk Op Shp Vit Fos (?) Fair Odor Dec No Flor SSG

75" CFS @ 5295' Ls Crm-Tan-Brn Fxln-Microxln Micritic Grad Poor Pin-Pt Ixln Por Cht Wht Op Shp Vit Fos (?) Sh Blk Carb- Char- Gry- Aqua Fissil Fair Odor Inc No Flor ? Sli SG

Sh Char-Gry-Grn Fissil Qtz Ss Gry Ang-Sub Ang VFGrn Poor Intergran Por (w Abd Glacu & Pyr Includ) Hvy CaCO3 Matrix (w Abd Clay) No Flor No Stn No Odor NS

Sh Char-Gry-Grn Fissil Qtz Ss Gry Ang-Sub Ang VFGrn Poor Intergran Por (w Abd Glacu & Pyr Includ) Hvy CaCO3 Matrix (w/Abd Clay Includ) Cht Amber (w/Fos (?) Coral) Includ/Translu Shp Vit Sli SG No Flor No Stn ? Faint Odor ? SSG & NSO

MORROW SAND 5314' (- 2460)

30" CFS @ 5340' Qtz Ss Gry-Crm Ang-Sub Ang VF-Fine Grn Poor Intergran Por (w Abd Glacu & Pyr Includ) Hvy CaCO3 Matrix (w/Abd Clay Includ) Cht Amber Translu Shp Vit Sh Char-Gry-Grn Fissil No Flor No Stn No Odor NS

60" CFS @ 5340' Sh Char-Gry-Grn Fissil Qtz Ss Gry-Lt Brn VFG Poor-Sort Poor Intergran Por (w/Glacu & Pyr Includ) Cht Amber-Tan Translu-Op Shp Vit Pyr Mass Fos (Pyr Crin) No Flor No Stn No Odor NS

75" CFS @ 5340' Sh Char-Gry-Blk Carb-Aqua Fissil Qtz Ss Gry-Lt Brn VFG Poor-Sort Poor Intergran Por (w/Glacu & Pyr Includ) Cht) Cht Amber-Tan Translu-Op Shp Vit Pyr Mass No Flor No Stn No Odor NS

CHESTER 5340' (- 2486)

30" CFS @ 5360' h Char-Gry-Blk Carb-Aqua Fissil (with/Pyr Includ) Qtz Ss Wht FGrn Well-Sort Poor-Fair Intergran Por Clusters (with/CaCO3 Cmt Matrix) (w/Glacu & Pyr Includ) Barren Ls Wht-Crm Microxln Micrite Dns Barren Pyr Mass No Odor No Flor No Stn NS

60" CFS @ 5360' Sh Char-Gry-Blk Carb-Aqua Fissil (with/Pyr Includ) Qtz Ss Wht FGrn Well-Sort Poor-Fair Intergran Por Clusters (with/CaCO3 Cmt Matrix) (w/Glacu & Pyr Includ) Barren Ls Wht-Crm Microxln Micrite Dns Barren Pyr Mass No Odor No Flor No Stn NS

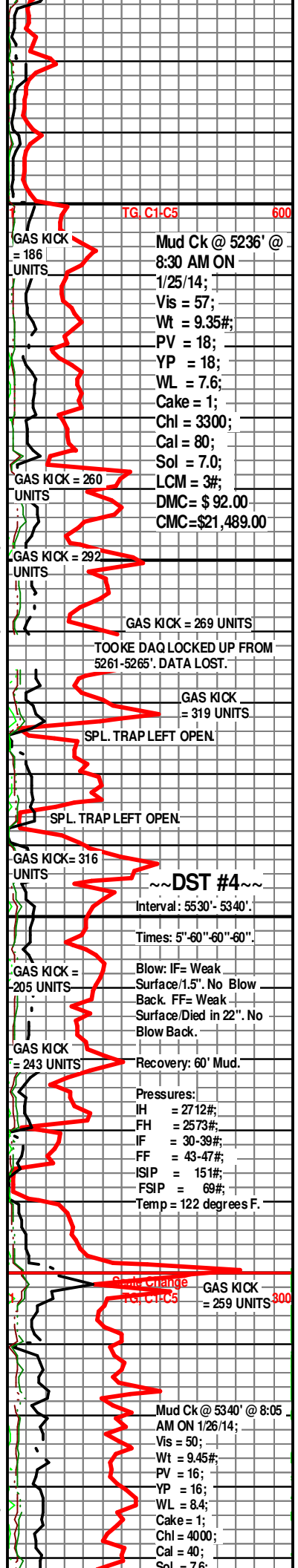
75" CFS @ 5360' Sh AA Ls AA Qtz Ss AA No Odor No Flor No Stn NS

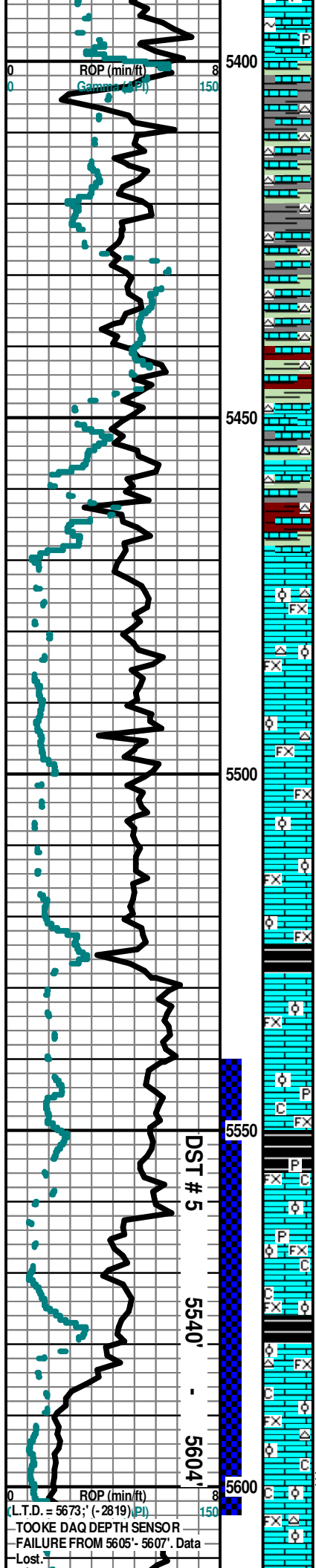
Sh Char-Gry-Blk Carb-Aqua Fissil (with/Pyr Includ) Qtz Ss Wht FGrn Well-Sort Poor-Fair Intergran Por Clusters (with/CaCO3 Cmt Matrix) (w/Glacu & Pyr Includ) Barren Ls Wht-Crm Microxln Micrite Dns Barren Pyr Mass No Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb-Aqua Fissil (with/Pyr Includ) Qtz Ss Wht FGrn Well-Sort Poor-Fair Intergran Por Clusters (with/CaCO3 Cmt Matrix) (w/Glacu & Pyr Includ) Barren Ls Wht-Crm Microxln Micrite Dns Barren Pyr Mass No Odor No Flor No Stn NS

Ls Wht-Crm Microxln Micrite Dns Barren Pyr Mass Sh Char-Gry-Blk Carb-Aqua Fissil (with/Pyr Includ) Qtz Ss Wht FGrn Well-Sort Poor-Fair Intergran Por AA (w/Glacu & Pyr Includ) Barren Pyr Mass No Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb-Aqua Fissil (with/Pyr Includ) Qtz Ss Wht FGrn Well-Sort Poor-Fair Intergran Por Clusters (with/CaCO3 Cmt Matrix) (w/Glacu & Pyr Includ) Barren Ls Wht-Crm Microxln Micrite Dns Barren Pyr Mass No Odor No Flor No Stn NS





Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqual Fissil (w/Pyr Inclus) Ls Wht-Crm Microxn Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGrn Well-Sort Poor-Fair Intergran Por Clusters (with / CaCO3 Cmt Matrix) Barren Dec No Odor No Flor No Stn NS

Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua-Yell Fissil (w/Pyr Inclus) Qtz Ss Wht Ang-SubAng FGrn Well-Sort Poor-Fair Intergran Por Clusters (with / CaCO3 Cmt Matrix) Barren Ls Wht-Crm Microxn Micrite Dns Barren No Odor No Flor No Stn NS

Sh Varicolored Char-Lt Gry-Drk Gry- Blk Carb- Aqua-Yell- Maroon- Red Fissil Cht Tan-Yell Op Shp Vit Ls Wht-Crm Microxn Micrite Dns Barren Qtz Ss AA Barren No Odor No Flor No Stn NS

Sh Varicolored Char-Lt Gry-Drk Gry- Blk Carb- Aqua-Yell- Maroon- Red Fissil Cht Tan-Yell Op Shp Vit Ls Wht-Crm Microxn Micrite Dns Barren Qtz Ss AA Barren No Odor No Flor No Stn NS

Ls Wht-Crm Microxn Micrite Dns Cht Tan-Yell Op Shp Vit Sh Varicolored Char-Lt Gry-Drk Gry-Blk Carb-Aqua-Yell-Maroon-Red (Wash Red) Fissil Qtz Ss AA Barren Fos (Brach) No Odor No Flor No Stn NS

Ls Wht-Crm Microxn Micrite Dns Cht Tan-Yell Op Shp Vit Sh Varicolored Char-Lt Gry-Drk Gry-Blk Carb-Aqua-Yell-Maroon-Red (Wash Red) Fissil Qtz Ss AA Barren Fos (Brach) No Odor No Flor No Stn NS

Ls Wht-Crm Microxn Micrite Dns Cht Tan-Yell Op Shp Vit Sh Varicolored Char-Lt Gry-Drk Gry-Blk Carb-Aqua-Yell-Maroon-Red (Wash Red) Fissil Qtz Ss AA Barren Fos (Brach) No Odor No Flor No Stn NS

MISSISSIPPIAN STE. GEN 5468' (- 2614)

Ls Wht-Crm Microxn Micrite Dns Grad OOLPor (with/VFn Ooids "Sandy Ls" in pl) Poor IxIn-InterOOL Por Cht Wht-Lt Grn Op Shp Vit Sh Varicolored Char --Aqua--Lt Gry-Maroon-Red- Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Microxn Micrite Dns Grad OOLPor (with/VFn Ooids "Sandy Ls" in pl) Poor IxIn-InterOOL Por Cht Wht-Lt Grn Op Shp Vit Sh Varicolored Char --Aqua-Lt Gry- Maroon-Red-Blk Carb Fissil No Odor No Flor No Stn N

Ls Wht-Crm Microxn Micrite Dns Grad OOLPor (with/VFn Ooids "Sandy Ls" in pl) Poor IxIn-InterOOL Por Cht Wht-Lt Grn Op Shp Vit Sh VaricoloredFissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Grn FxIn OOL Por (with/Small-Med Ooids "Sandy Ls" in pl) Poor InterOOL Por Sh Varicolored AA Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Gry FxIn OOL Por (with/Small-Med Ooids "Sandy Ls" in pl) Poor InterOOL Por Sh Varicolored AA Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Gry FxIn OOL Por (with/Small-Med Ooids "Sandy Ls" in pl) Poor InterOOL Por Sh Varicolored AA Char --Aqua-Lt Gry Maroon-Red- Blk Carb-Purple Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Gry FxIn OOL Por (with/Small-Med Ooids "Sandy Ls" in pl) Poor InterOOL Por Chalky Sh Varicolored AA (w/Pyr Inclus) Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Gry FxIn OOL Por (with/Small-Med Ooids "Sandy Ls" in pl) Poor InterOOL Por Chalky Sh Varicolored AA (w/Pyr Inclus) Fissil No Odor No Flor No Stn NS

MISS. ST. LOUIS "A" 5557' (- 2703)

Ls Wht-Lt Crm- Gry FxIn OOL Por (with/Small-Med Ooids "Sandy Ls" in pl) Poor InterOOL Por Chalky Sh Varicolored Blk Carb-Char (w/Pyr Inclus) Fissil No Odor No Flor No Stn NS

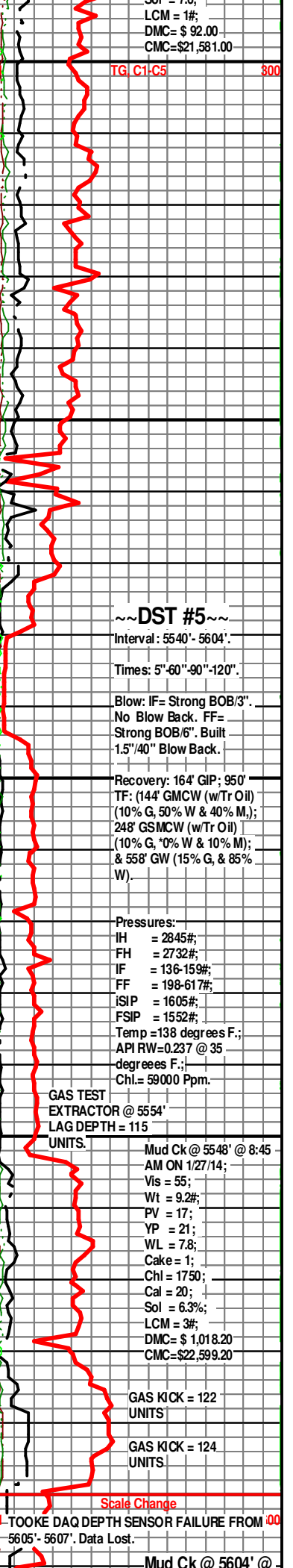
Ls Wht-Lt Crm- Gry FxIn OOL Por (with/Small-Med Ooids "Sandy Ls" in pl) Poor InterOOL Por Chalky Sh Varicolored AA (w/Pyr Inclus) Fissil No Odor No Flor No Stn NS

MISS. ST. LOUIS "B" 5632' (- 2778)

30" CFS @ 5604' Ls Wht FxIn Dns Micrite AA Grad Med-Lg OOL Por (w/ Med-Lg OOids in pl) Abd "Free Loose OOids in Tray" V Friable Fair Leaching Good Develop Fair-Med Dissolu Cht Wht-Tan Op Shp Vit Chalky Fair-Med SG & SSO Good Odor No Flor (Gas & Oil Do Not Flor Lt Brn-Blk Stn Med-Good SG & SSO

60" CFS @ 5604' Ls Wht-Crm FxIn Dns Micrite AA Grad Med-Lg OOL Por (w/ Med-Lg OOids in pl) Abd "Free Loose OOids in Tray" V Friable Fair Leaching Good Develop Fair-Med Dissolu Cht Wht-Tan Op Shp Vit Fos (Brach) Chalky Fair-Med SG & SSO Good Odor No Flor (Gas & Oil Do Not Flor Lt Brn-Blk Stn Med-Good SG & SSO

75" CFS @ 5604' Ls Wht-Crm FxIn Med-Lg OOL Por (w/ Med-Lg OOids in pl) Abd V Friable Good Leaching Good Develop Fair-Med Dissolu Cht Wht-Gry-Blu Op Shp Vit Chalky Abd Med-Good SG & SSO Good-Strong Odor No Flor Lt Brn Stn Med-Good SG & SSO



~DST #5~

Interval: 5540' - 5604'

Times: 5"-60"-90"-120"

Blow: IF= Strong BOB/3"
No Blow Back. FF=
Strong BOB/6". Built
1.5"/40" Blow Back.

Recovery: 164' GIP; 950'
TF: (144' GMCW (w/Tr Oil)
(10% G, 50% W & 40% M.);
248' GSMCW (w/Tr Oil)
(10% G, 0% W & 10% M);
& 558' GW (15% G, & 85%
W).

Pressures:
IH = 2845#;
FH = 2732#;
IF = 136-159#;
FF = 198-617#;
iSIP = 1605#;
FSIP = 1552#;
Temp = 138 degrees F.;
API RW=0.237 @ 35
degrees F.;
Chl.= 59000 Ppm.

GAS TEST
EXTRACTOR @ 5554'
LAG DEPTH = 115
UNITS.

Mud Ck @ 5548' @ 8:45
AM ON 1/27/14;
Vis = 55;
Wt = 9.2#;
PV = 17;
YP = 21;
WL = 7.8;
Cake = 1;
Chl = 1750;
Cal = 20;
Sol = 6.3%;
LCM = 3#;
DMC = \$1,018.20
CMC = \$22,599.20

GAS KICK = 122
UNITS

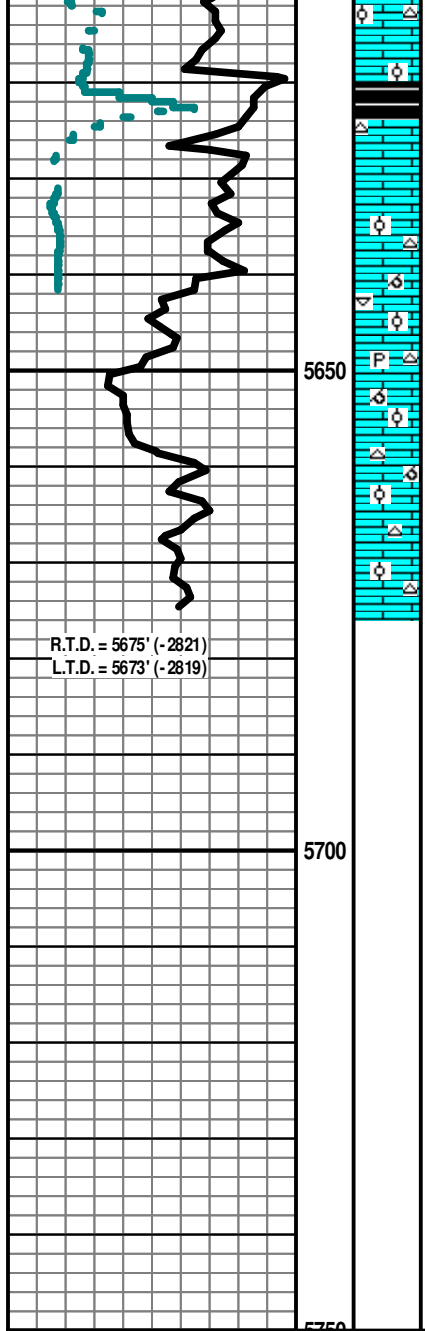
GAS KICK = 124
UNITS

Scale Change

TOOKE DAQ DEPTH SENSOR FAILURE FROM 5605' - 5607'. Data Lost.

Mud Ck @ 5604' @

ROP (min/ft)
L.T.D. = 5673; (-2819) (PI)
TOOKE DAQ DEPTH SENSOR
FAILURE FROM 5605' - 5607'. Data
Lost.



Ls Wht-Crm FxIn Fair OOL Por (w/Small OOids in pl) Friable Fair Leaching Fair Develop Fair Dissolu Grad Dns "Sandy OOL Ls" Cht Wht-Gry Op Shp Vit Chalk Sh Varicolored Char--Aqua-Lt Gry- Blk Carb-Purple Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Fair OOL Por (w/Small OOids in pl) Friable Fair Leaching Fair Develop Fair Dissolu Grad Dns "Sandy OOL Ls" Cht Wht-Gry Op Shp Vit Chalk Sh Varicolored Char--Aqua-Lt Gry- Blk Carb-Purple Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Fair OOL Por (w/Small OOids in pl) Friable Fair Leaching Fair Develop Fair Dissolu Grad Dns Micrite Cht Wht-Gry Op Shp Vit Chalk Sh Varicolored Char--Aqua-Lt Gry- Blk Carb-Purple Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Micrite Grad VFn OOL (with V Small-Med OOids in pl) Fair InterOOL/OOM Por Cht Wht Op Shp Vit Fos (Pelcc) Sh Blk Carb-Char-Gry No Flor No Odor No Stn NS

Ls Wht-Crm-Gry FxIn Micrite Grad VFn OOL (with V Small-Med OOids in pl) Fair InterOOL/OOM Por Cht Wht Op Shp Vit Fos (Pelcc) Sh Blk Carb-Char-Gry No Flor No Odor No Stn NS

60" CFS @ 5675' Ls Wht-Crm-Gry FxIn Micrite Grad VFn OOL (with V Small-Med OOids in pl) Fair InterOOL/OOM Por Cht Wht Op Shp Vit Fos (Pelcc) Sh Blk Carb-Char-Gry No Flor No Odor No Stn NS

75" CFS @ 5675' Ls Wht-Crm-Gry FxIn Micrite Grad VFn OOL (with V Small-Med OOids in pl) Fair InterOOL/OOM Por Cht Wht Op Shp Vit Fos (Pelcc) Sh Blk Carb-Char-Gry No Flor No Odor No Stn NS

Electric Logs Run: By Weatherford Logging: Array Induction Shallow Focused Electric Log ; Compact Photo Density Compensated Neutron; Microresistivity Log.

Geologist Left Location @ 10:30 AM on 1-29-14

10:00 AM ON
1/28/14;
Vis = 70;
Wt = 9.25#;
PV = 20;
YP = 25;
WL = 8.8;
Cake = 1;
Chl = 2100;
Cal = 40;
Sol = 6.3;
LCM = 2#;
DMC = \$ 928.40
CMC = \$23,527.60



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

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

ATTN: Dave Williams

Hammer A #1-17

17-30s-31w Haskell,KS

Start Date: 2014.01.21 @ 14:05:57

End Date: 2014.01.22 @ 00:20:57

Job Ticket #: 56617 DST #: 1

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

Printed: 2014.02.05 @ 09:51:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

17-30s-31w Haskell,KS
Hammer A #1-17
 Job Ticket: 56617 **DST#: 1**
 Test Start: 2014.01.21 @ 14:05:57

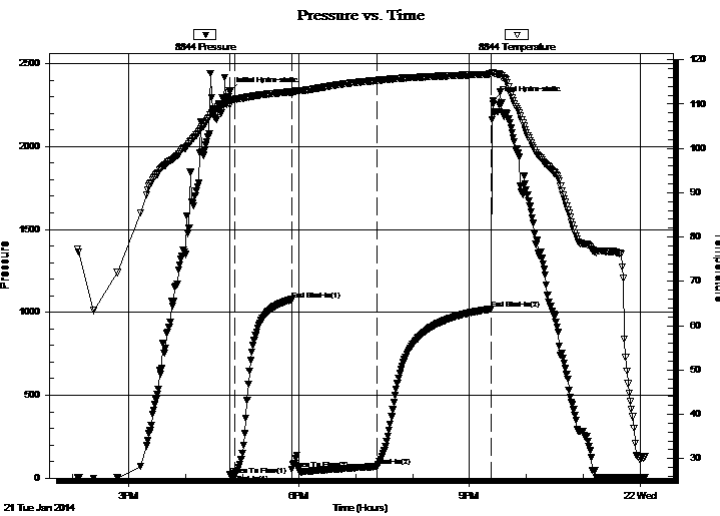
GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:46:42
 Time Test Ended: 00:20:57
 Interval: **4689.00 ft (KB) To 4720.00 ft (KB) (TVD)**
 Total Depth: 4720.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2854.00 ft (KB)
 2843.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: 70.16 psig @ 4690.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.21 End Date: 2014.01.22 Last Calib.: 2014.01.22
 Start Time: 14:05:57 End Time: 00:05:57 Time On Btm: 2014.01.21 @ 16:46:27
 Time Off Btm: 2014.01.21 @ 21:24:42

TEST COMMENT: 3/4" blow
 No return
 9 1/2" blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.67	111.07	Initial Hydro-static
1	19.17	109.75	Open To Flow (1)
6	25.57	111.09	Shut-In(1)
66	1076.27	112.74	End Shut-In(1)
66	52.78	112.26	Open To Flow (2)
156	70.16	115.33	Shut-In(2)
277	1020.54	116.77	End Shut-In(2)
279	2274.32	117.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	s w c m 15%w 85%m	0.30
60.00	m c w 25%m 75%w	0.30
0.00	60' gas in pipe	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

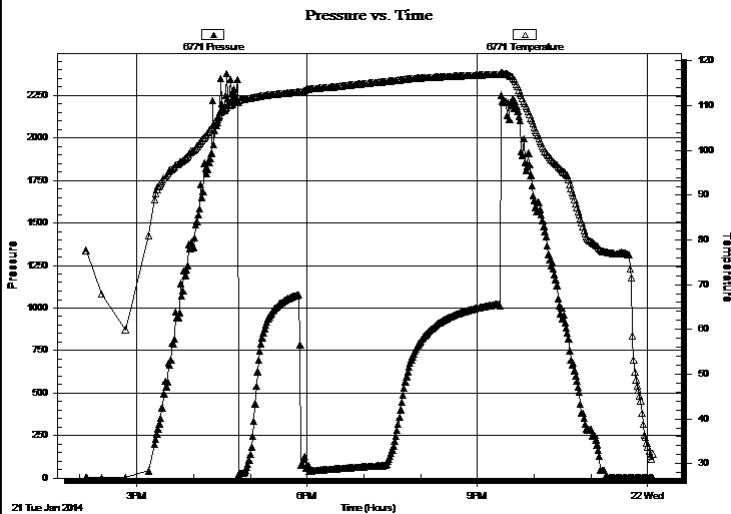
17-30s-31w Haskell, KS
Hammer A #1-17
 Job Ticket: 56617 **DST#: 1**
 Test Start: 2014.01.21 @ 14:05:57

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:46:42
 Time Test Ended: 00:20:57
 Interval: **4689.00 ft (KB) To 4720.00 ft (KB) (TVD)**
 Total Depth: 4720.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2854.00 ft (KB)
 2843.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6771 Inside
 Press@RunDepth: psig @ 4690.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.21 End Date: 2014.01.22 Last Calib.: 2014.01.22
 Start Time: 14:06:04 End Time: 00:05:49 Time On Btm:
 Time Off Btm:

TEST COMMENT: 3/4" blow
 No return
 9 1/2" blow
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	s w c m 15%w 85%w	0.30
60.00	m c w 25%w 75%w	0.30
0.00	60' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp

17-30s-31w Haskell, KS

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

Hammer A #1-17

Job Ticket: 56617

DST#: 1

ATTN: Dave Williams

Test Start: 2014.01.21 @ 14:05:57

Tool Information

Drill Pipe:	Length: 4459.00 ft	Diameter: 3.80 inches	Volume: 62.55 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	98000.00 lb
			<u>Total Volume: 63.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4689.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	59.00 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			4662.00	
Shut In Tool	5.00			4667.00	
Hydraulic tool	5.00			4672.00	
Jars	5.00			4677.00	
Safety Joint	3.00			4680.00	
Packer	5.00			4685.00	28.00 Bottom Of Top Packer
Packer	4.00			4689.00	
Stubb	1.00			4690.00	
Recorder	0.00	6771	Inside	4690.00	
Recorder	0.00	8844	Outside	4690.00	
Perforations	25.00			4715.00	
Bullnose	5.00			4720.00	31.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56617

DST#: 1

ATTN: Dave Williams

Test Start: 2014.01.21 @ 14:05:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29500 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	s w c m 15%w 85%m	0.295
60.00	m c w 25%m 75%w	0.295
0.00	60' gas in pipe	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

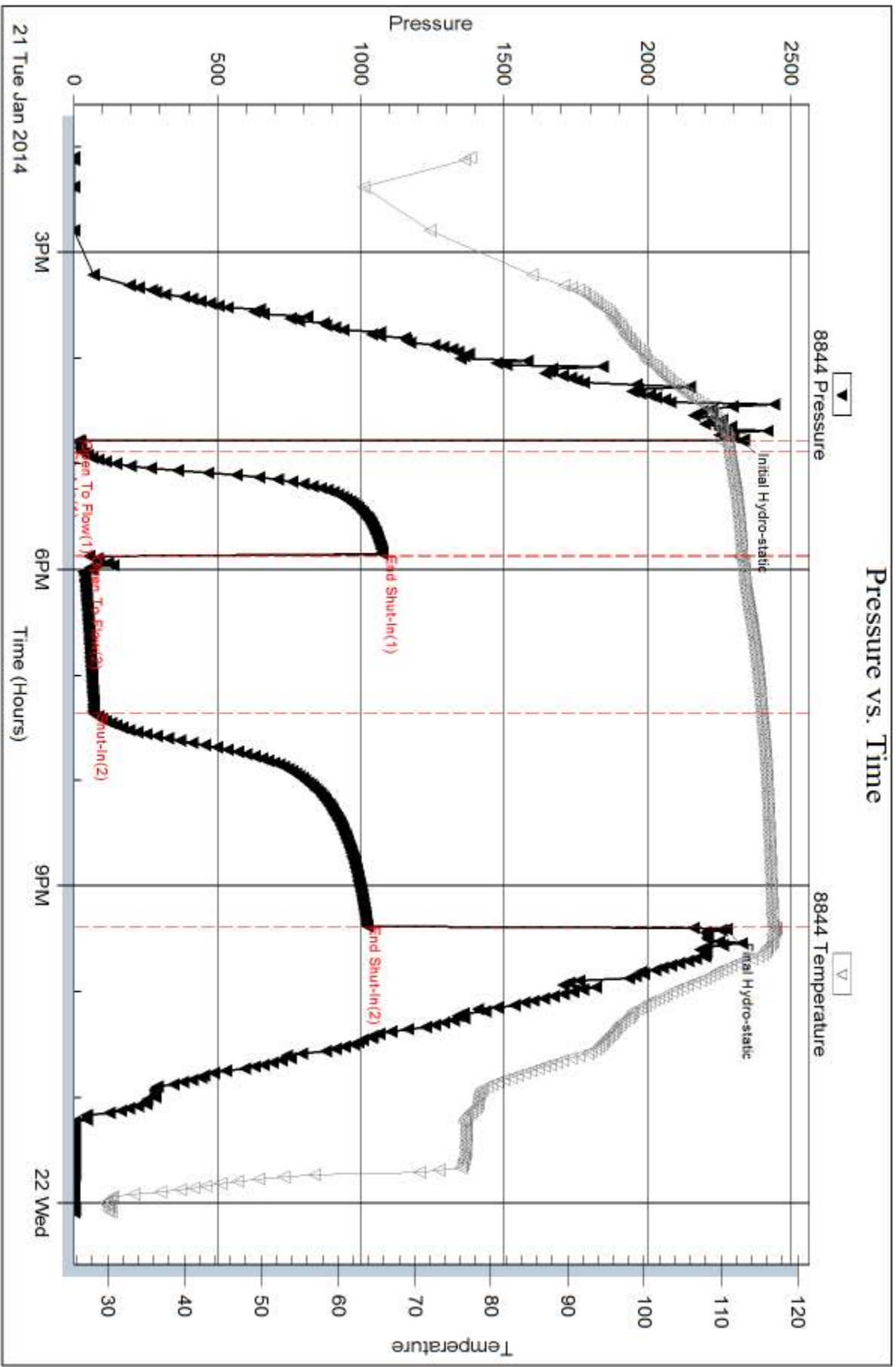
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .265 @ 60*f= 29,500 chlor



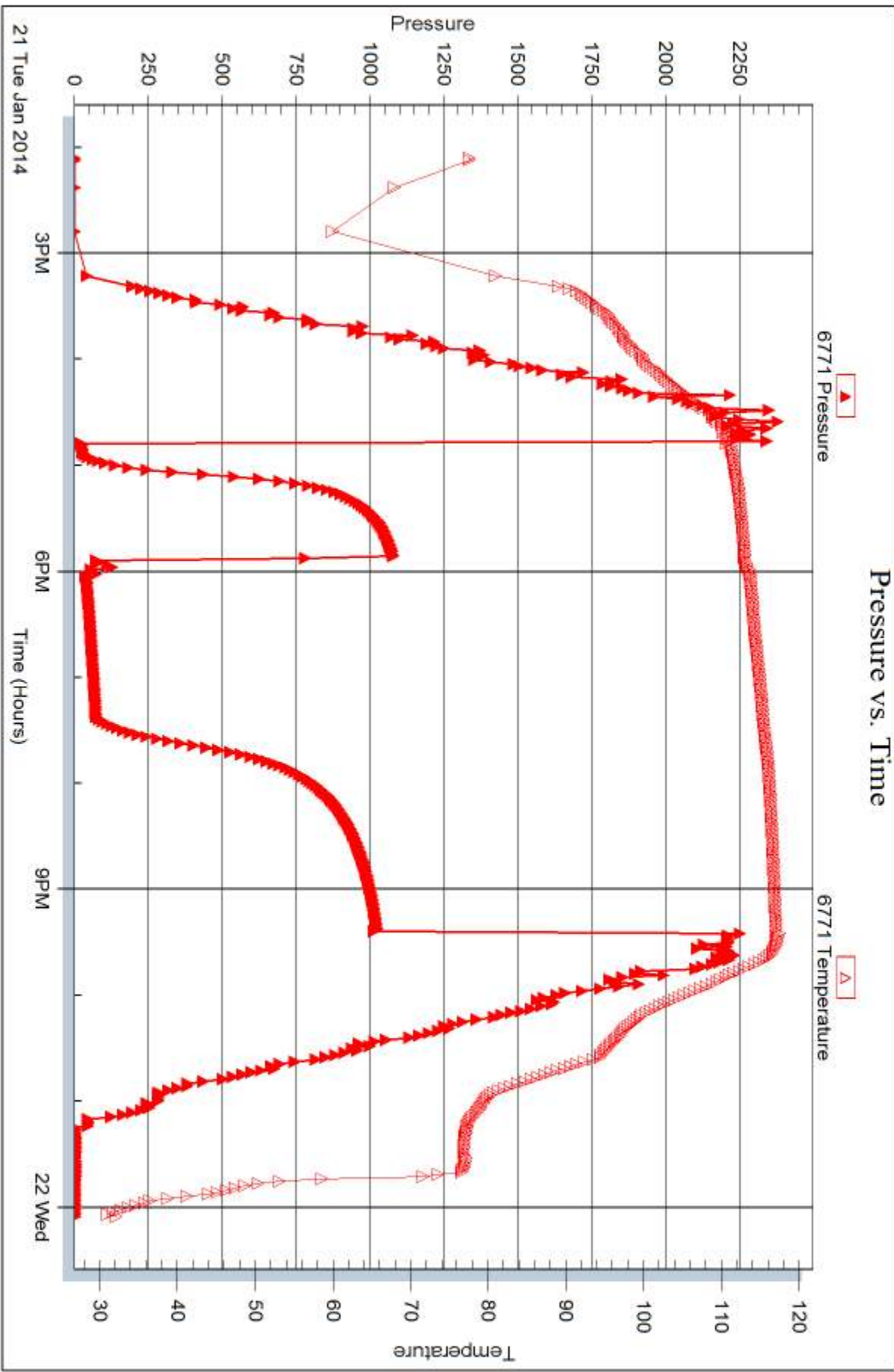
Serial #: 6771

Inside

McCoy Petroleum Corp

Hammer A #1-17

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

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

ATTN: Dave Williams

Hammer A #1-17

17-30s-31w Haskell,KS

Start Date: 2014.01.23 @ 02:45:29

End Date: 2014.01.23 @ 14:25:14

Job Ticket #: 56618 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.02.05 @ 09:50:37



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

17-30s-31w Haskell,KS
Hammer A #1-17
Job Ticket: 56618 **DST#: 2**
Test Start: 2014.01.23 @ 02:45:29

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:02:59
Time Test Ended: 14:25:14
Interval: **4928.00 ft (KB) To 4996.00 ft (KB) (TVD)**
Total Depth: 4996.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2854.00 ft (KB)
2843.00 ft (CF)
KB to GR/CF: 11.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

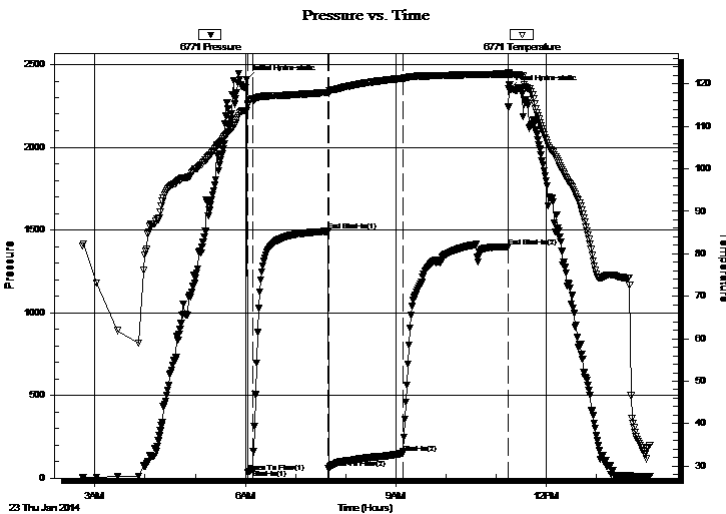
Serial #: 6771

Inside

Press@RunDepth: 150.92 psig @ 4929.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.01.23 End Date: 2014.01.23 Last Calib.: 2014.01.23
Start Time: 02:45:29 End Time: 14:04:14 Time On Btm: 2014.01.23 @ 06:01:59
Time Off Btm: 2014.01.23 @ 11:14:59

TEST COMMENT: B.O.B. in 3 min.
No return
B.O.B. in 1 min.
Return blow in 6 min. built to 3 1/2" died in 98 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2409.05	113.72	Initial Hydro-static
1	36.99	115.04	Open To Flow (1)
7	50.19	116.47	Shut-In(1)
97	1492.04	118.00	End Shut-In(1)
98	56.39	117.78	Open To Flow (2)
186	150.92	121.31	Shut-In(2)
312	1397.41	122.36	End Shut-In(2)
313	2351.00	122.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	g s m c w 10g 10m 80w w/oil scum	0.89
60.00	g m c w 10g 40m 50w w/oil scum	0.50
60.00	g s w c m 5g 10w 85m heavy oil scum	0.84
0.00	1980' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

17-30s-31w Haskell, KS
Hammer A #1-17
Job Ticket: 56618 **DST#: 2**
Test Start: 2014.01.23 @ 02:45:29

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:02:59
 Time Test Ended: 14:25:14

Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55

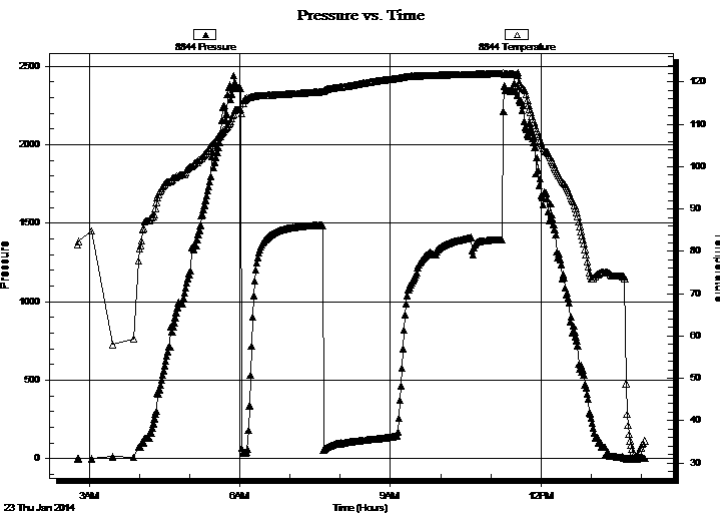
Interval: **4928.00 ft (KB) To 4996.00 ft (KB) (TVD)**
 Total Depth: 4996.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2854.00 ft (KB)
 2843.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: psig @ 4929.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.23 End Date: 2014.01.23 Last Calib.: 2014.01.23
 Start Time: 02:46:10 End Time: 14:04:55 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 3 min.
 No return
 B.O.B. in 1 min.
 Return blow in 6 min. built to 3 1/2" died in 98 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	g s m c w 10g 10m 80w w/oil scum	0.89
60.00	g m c w 10g 40m 50w w/oil scum	0.50
60.00	g s w c m 5g 10w 85m heavy oil scum	0.84
0.00	1980' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56618

DST#: 2

ATTN: Dave Williams

Test Start: 2014.01.23 @ 02:45:29

Tool Information

Drill Pipe:	Length: 4714.00 ft	Diameter: 3.80 inches	Volume: 66.13 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 67.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4928.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 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			4901.00	
Shut In Tool	5.00			4906.00	
Hydraulic tool	5.00			4911.00	
Jars	5.00			4916.00	
Safety Joint	3.00			4919.00	
Packer	5.00			4924.00	28.00 Bottom Of Top Packer
Packer	4.00			4928.00	
Stubb	1.00			4929.00	
Recorder	0.00	6771	Inside	4929.00	
Recorder	0.00	8844	Outside	4929.00	
Perforations	28.00			4957.00	
Change Over Sub	1.00			4958.00	
Drill Pipe	32.00			4990.00	
Change Over Sub	1.00			4991.00	
Bullnose	5.00			4996.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56618

DST#: 2

ATTN: Dave Williams

Test Start: 2014.01.23 @ 02:45:29

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	g s m c w 10g 10m 80w w/oil scum	0.885
60.00	g m c w 10g 40m 50w w/oil scum	0.505
60.00	g s w c m 5g 10w 85m heavy oil scum	0.842
0.00	1980' gas in pipe	0.000

Total Length: 300.00 ft Total Volume: 2.232 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

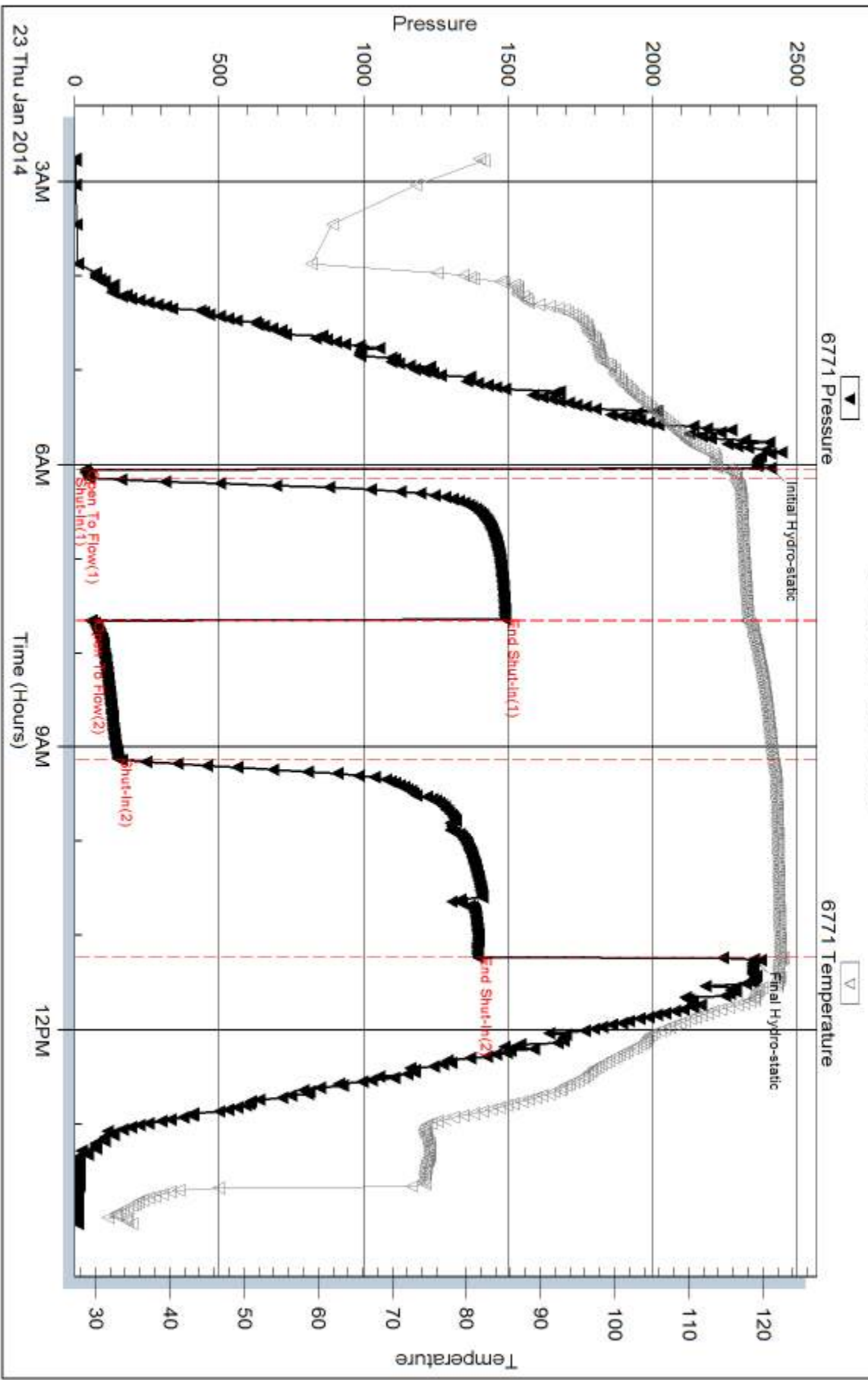
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .141 @ 55*f= 65,000 chlor

Pressure vs. Time

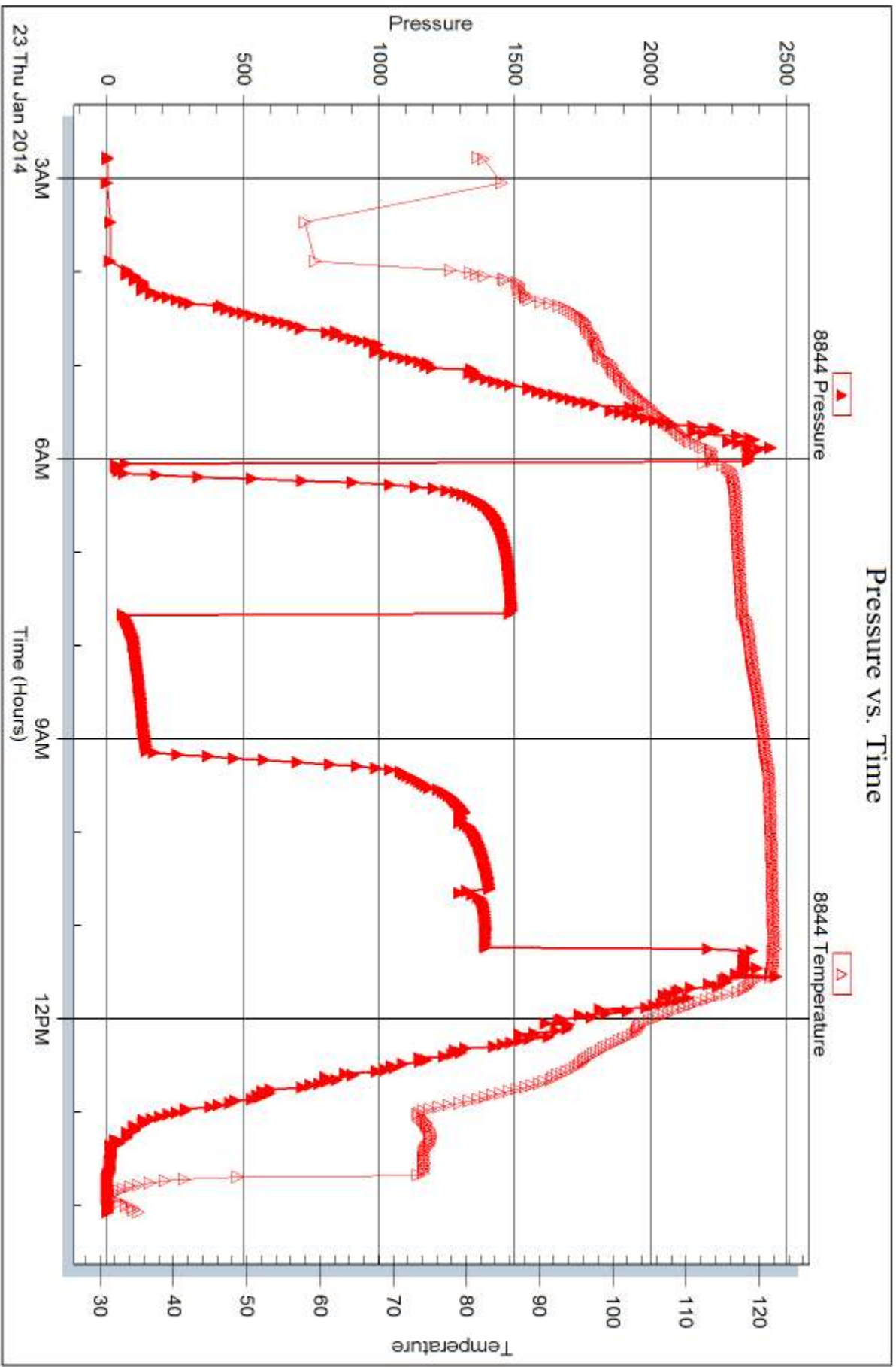


Serial #: 8844

Outside McCoy Petroleum Corp

Hammer A #1-17

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

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

ATTN: Dave Williams

Hammer A #1-17

17-30s-31w Haskell,KS

Start Date: 2014.01.23 @ 19:00:44

End Date: 2014.01.24 @ 04:55:59

Job Ticket #: 56619 DST #: 3

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

Printed: 2014.02.05 @ 09:49:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

17-30s-31w Haskell, KS
Hammer A #1-17
 Job Ticket: 56619 **DST#: 3**
 Test Start: 2014.01.23 @ 19:00:44

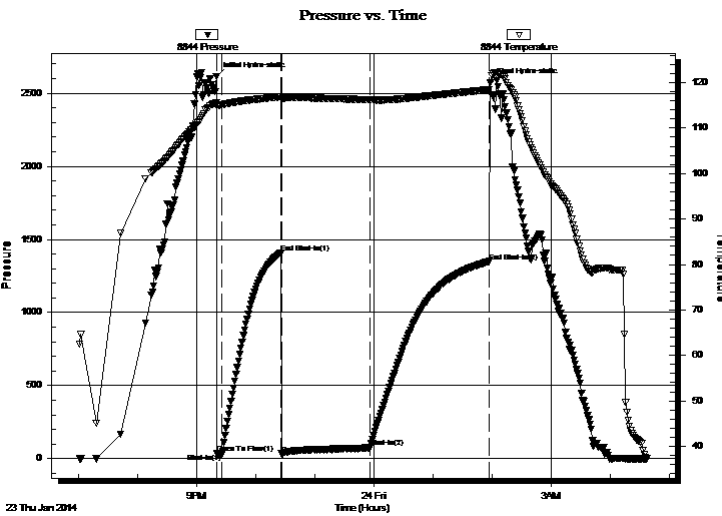
GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:20:29
 Time Test Ended: 04:55:59
 Interval: **5161.00 ft (KB) To 5235.00 ft (KB) (TVD)**
 Total Depth: 5235.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2854.00 ft (KB)
 2843.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: 75.04 psig @ 5162.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.23 End Date: 2014.01.24 Last Calib.: 2014.01.25
 Start Time: 19:00:44 End Time: 04:37:59 Time On Btm: 2014.01.23 @ 21:19:44
 Time Off Btm: 2014.01.24 @ 01:58:29

TEST COMMENT: B.O.B. in 1 min.
 No return
 B.O.B. @ open
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2614.74	115.51	Initial Hydro-static
1	37.67	114.89	Open To Flow (1)
6	34.76	115.09	Shut-In(1)
66	1407.21	116.90	End Shut-In(1)
67	27.45	116.56	Open To Flow (2)
157	75.04	116.27	Shut-In(2)
278	1348.93	118.45	End Shut-In(2)
279	2572.43	120.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	g m c o 20g 30m 50o	0.15
120.00	g s m c o 35g 10m 55o	0.59
0.00	4371' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

McCoy Petroleum Corp

17-30s-31w Haskell, KS

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

Hammer A #1-17

Job Ticket: 56619

DST#: 3

ATTN: Dave Williams

Test Start: 2014.01.23 @ 19:00:44

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:20:29

Time Test Ended: 04:55:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 5161.00 ft (KB) To 5235.00 ft (KB) (TVD)

Reference Elevations: 2854.00 ft (KB)

Total Depth: 5235.00 ft (KB) (TVD)

2843.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 5162.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.23 End Date: 2014.01.24

Last Calib.: 2014.01.25

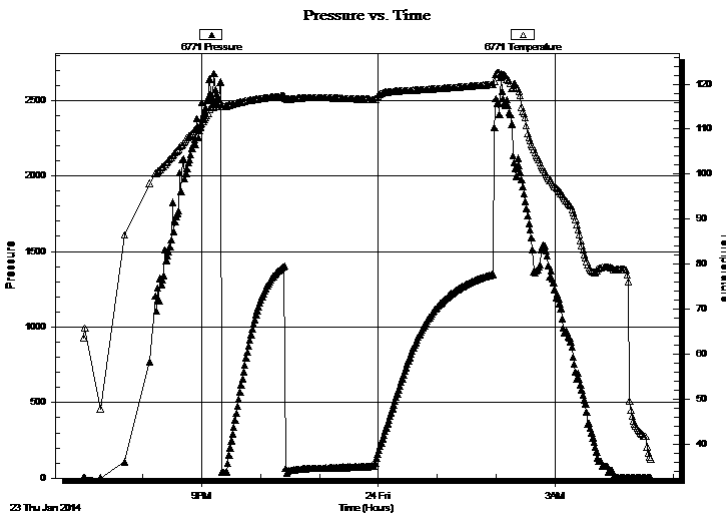
Start Time: 19:00:15 End Time: 04:37:45

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 1 min.
No return
B.O.B. @ open
No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	g m c o 20g 30m 50o	0.15
120.00	g s m c o 35g 10m 55o	0.59
0.00	4371' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56619

DST#: 3

ATTN: Dave Williams

Test Start: 2014.01.23 @ 19:00:44

Tool Information

Drill Pipe:	Length: 4938.00 ft	Diameter: 3.80 inches	Volume: 69.27 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 108000.0 lb
			<u>Total Volume: 70.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	5161.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	102.00 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			5134.00	
Shut In Tool	5.00			5139.00	
Hydraulic tool	5.00			5144.00	
Jars	5.00			5149.00	
Safety Joint	3.00			5152.00	
Packer	5.00			5157.00	28.00 Bottom Of Top Packer
Packer	4.00			5161.00	
Stubb	1.00			5162.00	
Recorder	0.00	6771	Inside	5162.00	
Recorder	0.00	8844	Outside	5162.00	
Perforations	34.00			5196.00	
Change Over Sub	1.00			5197.00	
Drill Pipe	32.00			5229.00	
Change Over Sub	1.00			5230.00	
Bullnose	5.00			5235.00	74.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56619

DST#: 3

ATTN: Dave Williams

Test Start: 2014.01.23 @ 19:00:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	g m c o 20g 30m 50o	0.148
120.00	g s m c o 35g 10m 55o	0.590
0.00	4371' gas in pipe	0.000

Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

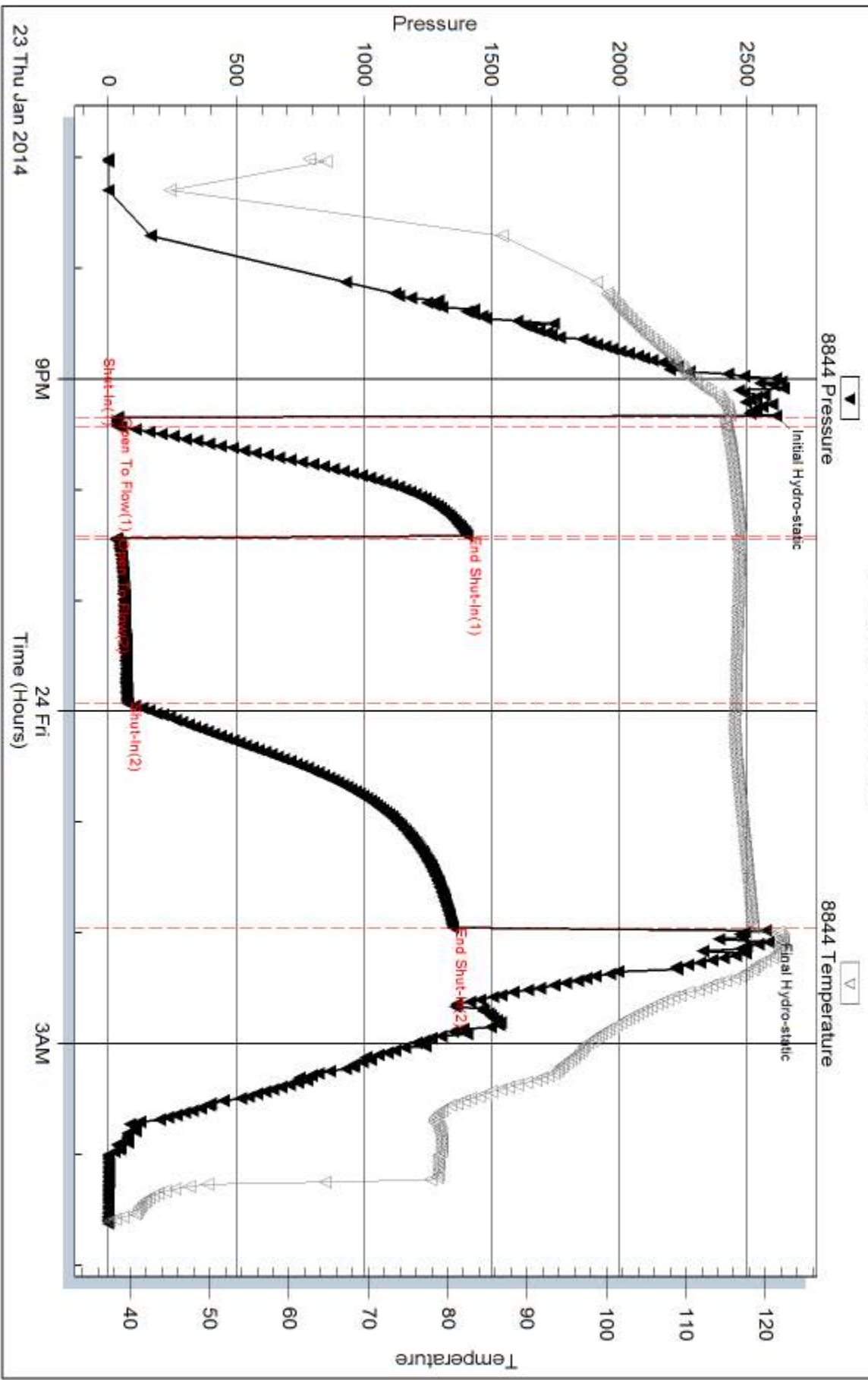
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



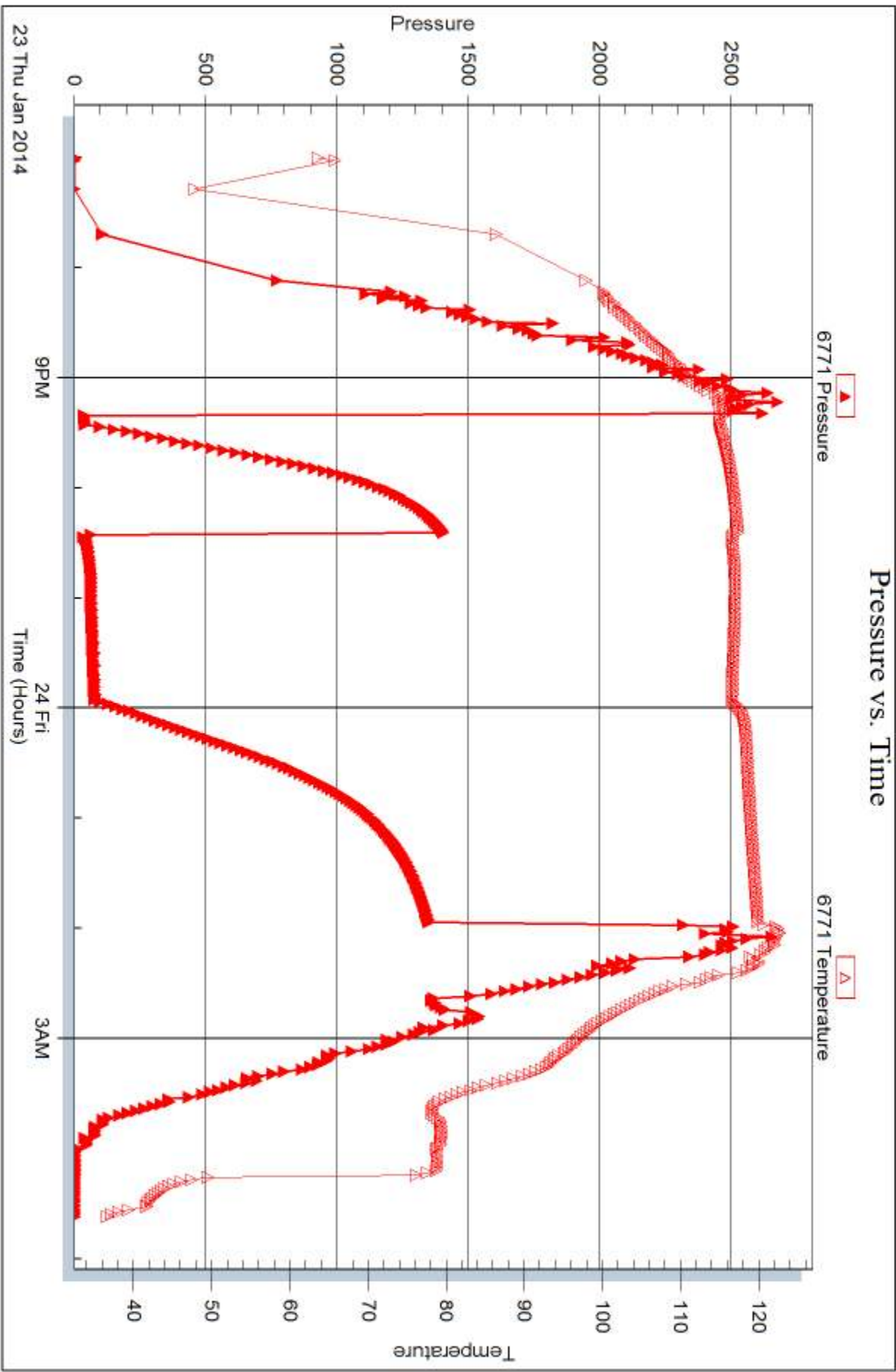
Serial #: 6771

Inside

McCoy Petroleum Corp

Hammer A #1-17

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 56619

Printed: 2014.02.05 @ 09:49:59



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

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

ATTN: Dave Williams

Hammer A #1-17

17-30s-31w Haskell,KS

Start Date: 2014.01.26 @ 01:25:57

End Date: 2014.01.26 @ 10:20:42

Job Ticket #: 56620 DST #: 4

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

Printed: 2014.02.05 @ 09:45:34



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

17-30s-31w Haskell, KS
Hammer A #1-17
Job Ticket: 56620 **DST#: 4**
Test Start: 2014.01.26 @ 01:25:57

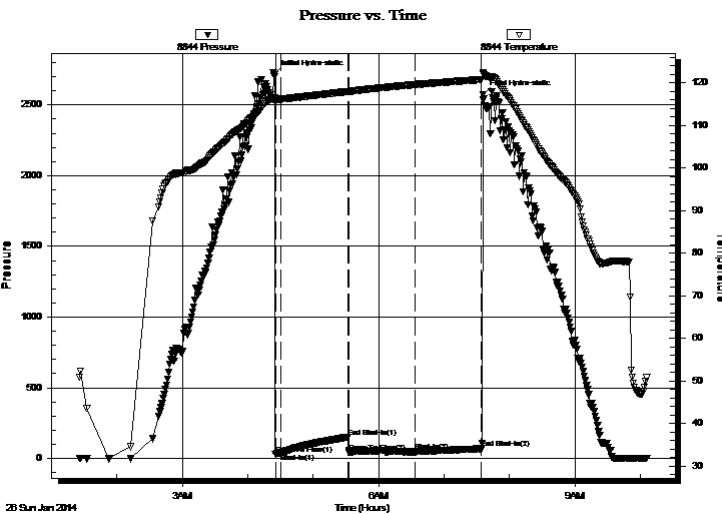
GENERAL INFORMATION:

Formation: **Atoka, Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:25:12
Time Test Ended: 10:20:42
Interval: **5230.00 ft (KB) To 5340.00 ft (KB) (TVD)**
Total Depth: 5340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55
Reference Elevations: 2854.00 ft (KB)
2843.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: 47.94 psig @ 5231.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.01.26 End Date: 2014.01.26 Last Calib.: 2014.01.26
Start Time: 01:25:57 End Time: 10:05:42 Time On Btm: 2014.01.26 @ 04:24:12
Time Off Btm: 2014.01.26 @ 07:35:42

TEST COMMENT: 1/1/2" in blow
No return
Weak surface blow, died in 22 min.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2712.59	116.51	Initial Hydro-static
1	30.81	115.81	Open To Flow (1)
7	39.59	116.15	Shut-In(1)
68	151.57	117.91	End Shut-In(1)
69	43.72	117.92	Open To Flow (2)
129	47.94	119.54	Shut-In(2)
190	69.83	120.71	End Shut-In(2)
192	2573.09	122.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100% m	0.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

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

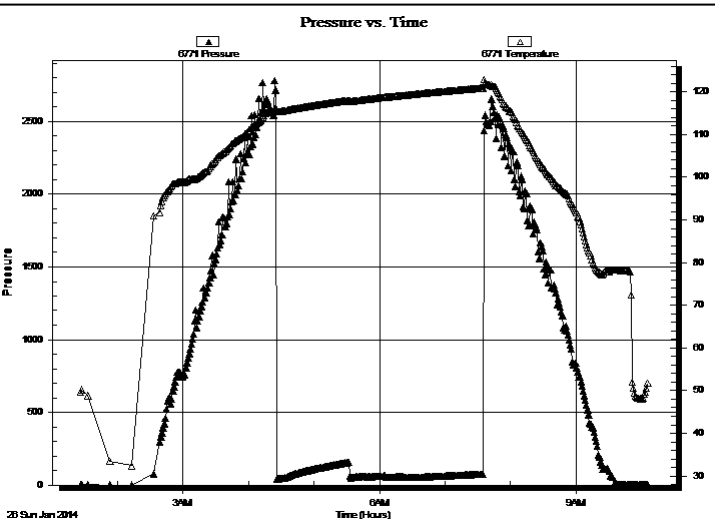
17-30s-31w Haskell, KS
Hammer A #1-17
Job Ticket: 56620 **DST#: 4**
Test Start: 2014.01.26 @ 01:25:57

GENERAL INFORMATION:

Formation: **Atoka, Morrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:25:12
 Time Test Ended: 10:20:42
 Interval: **5230.00 ft (KB) To 5340.00 ft (KB) (TVD)**
 Total Depth: 5340.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2854.00 ft (KB)
 2843.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6771 Inside
 Press@RunDepth: psig @ 5231.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.26 End Date: 2014.01.26 Last Calib.: 2014.01.26
 Start Time: 01:26:10 End Time: 10:06:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1/1/2" in blow
 No return
 Weak surface blow, died in 22 min.
 No return



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	mud 100% m	0.30

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56620

DST#: 4

ATTN: Dave Williams

Test Start: 2014.01.26 @ 01:25:57

Tool Information

Drill Pipe:	Length: 5002.00 ft	Diameter: 3.80 inches	Volume: 70.16 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	103000.0 lb
			<u>Total Volume: 71.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	83000.00 lb
Depth to Top Packer:	5230.00 ft			Final	83000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	110.00 ft				
Tool Length:	138.00 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			5203.00	
Shut In Tool	5.00			5208.00	
Hydraulic tool	5.00			5213.00	
Jars	5.00			5218.00	
Safety Joint	3.00			5221.00	
Packer	5.00			5226.00	28.00 Bottom Of Top Packer
Packer	4.00			5230.00	
Stubb	1.00			5231.00	
Recorder	0.00	6771	Inside	5231.00	
Recorder	0.00	8844	Outside	5231.00	
Perforations	7.00			5238.00	
Change Over Sub	1.00			5239.00	
Drill Pipe	95.00			5334.00	
Change Over Sub	1.00			5335.00	
Bullnose	5.00			5340.00	110.00 Bottom Packers & Anchor

Total Tool Length: 138.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56620

DST#: 4

ATTN: Dave Williams

Test Start: 2014.01.26 @ 01:25:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud 100%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

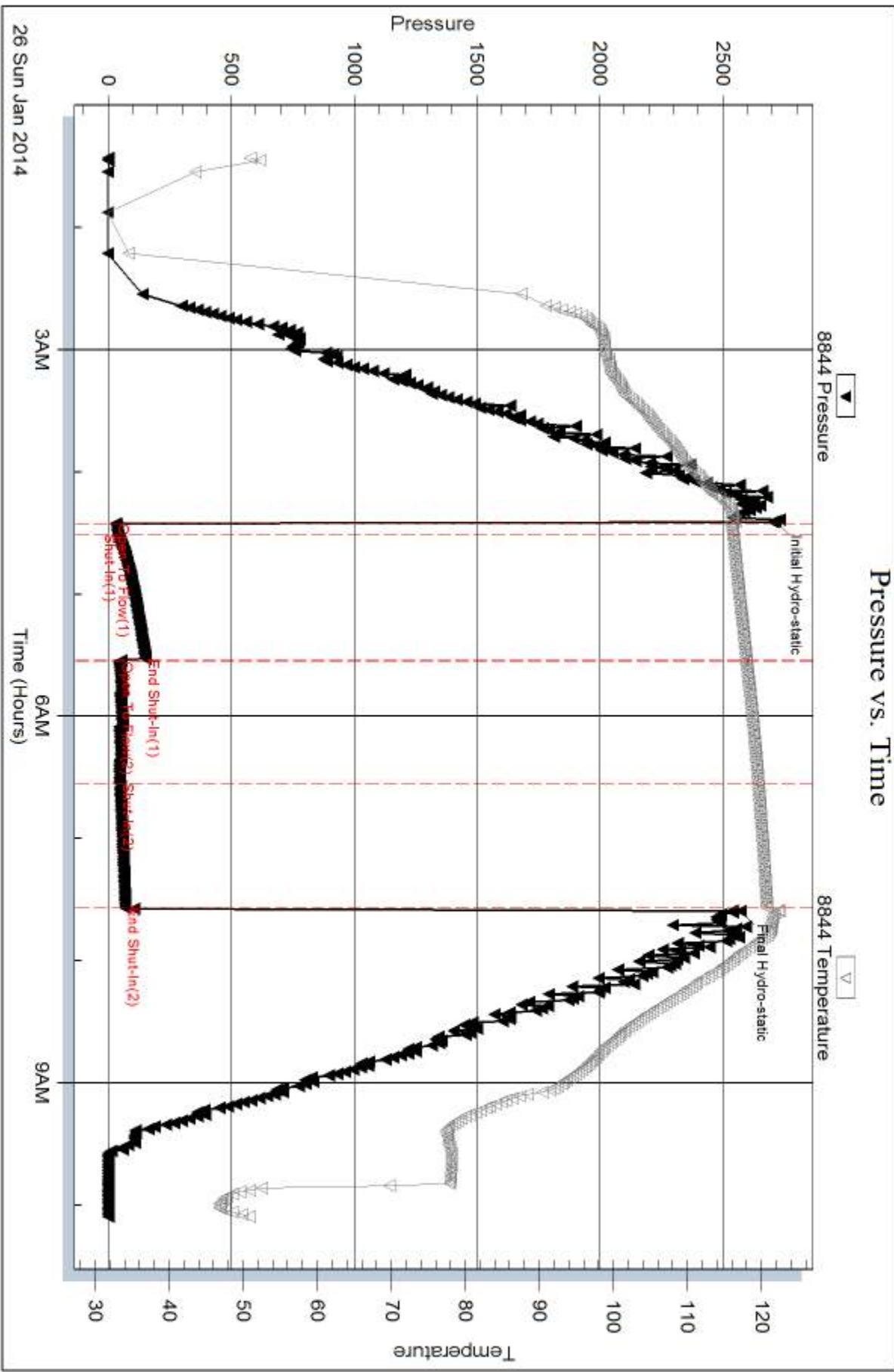
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



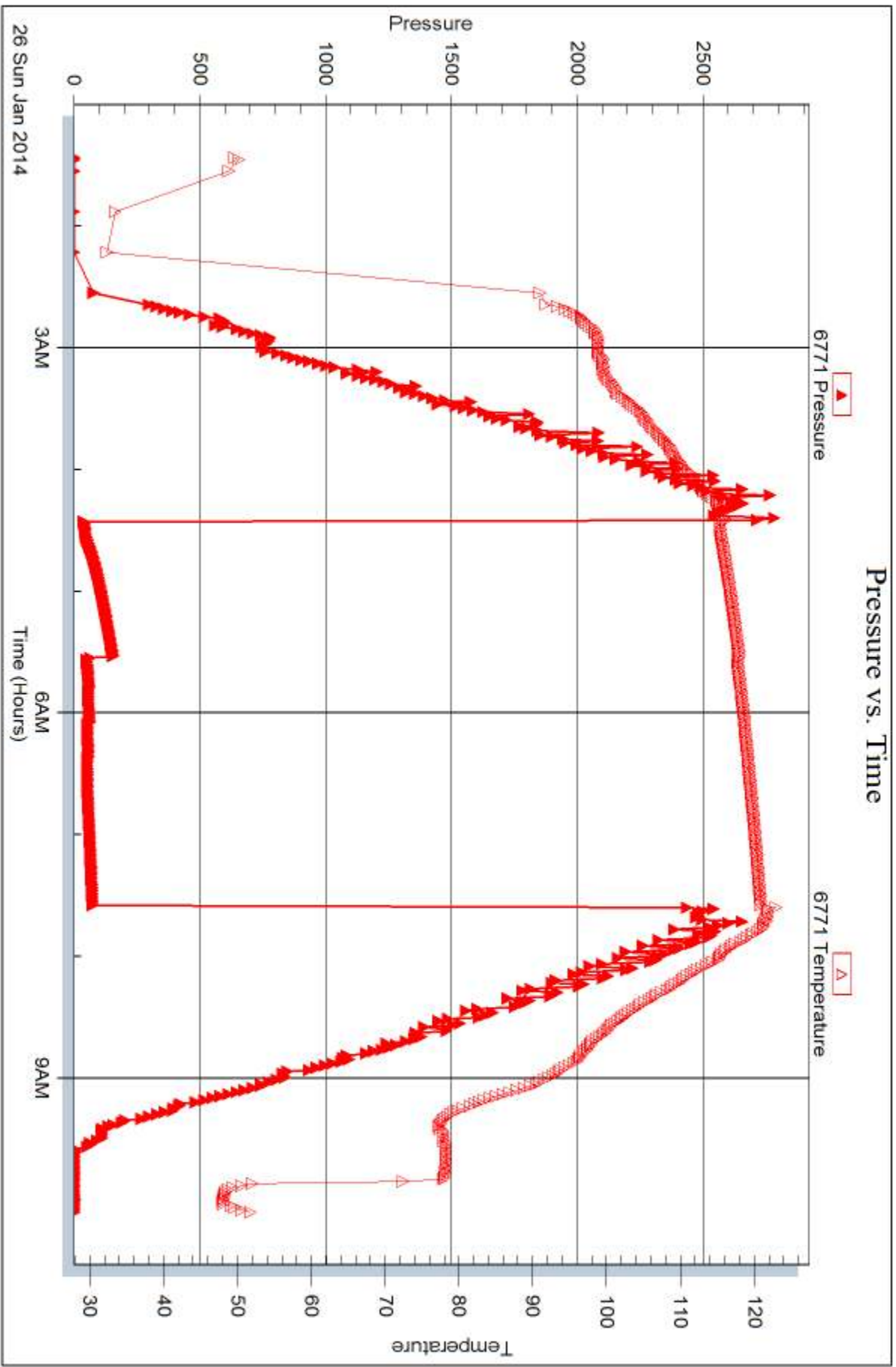
Serial #: 6771

Inside

McCoy Petroleum Corp

Hammer A #1-17

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 56620

Printed: 2014.02.05 @ 09:45:37



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

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

ATTN: Dave Williams

Hammer A #1-17

17-30s-31w Haskell,KS

Start Date: 2014.01.27 @ 17:30:59

End Date: 2014.01.28 @ 05:55:44

Job Ticket #: 56621 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.02.05 @ 09:44:49

McCoy Petroleum Corp

17-30s-31w Haskell,KS

Hammer A #1-17

DST # 5

St. Louis A

2014.01.27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

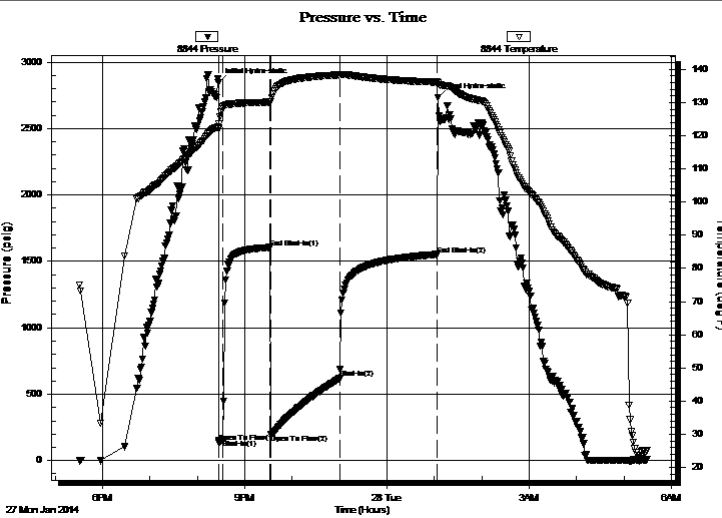
17-30s-31w Haskell, KS
Hammer A #1-17
 Job Ticket: 56621 **DST#: 5**
 Test Start: 2014.01.27 @ 17:30:59

GENERAL INFORMATION:

Formation: **St. Louis A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:27:29
 Time Test Ended: 05:55:44
 Interval: **5540.00 ft (KB) To 5604.00 ft (KB) (TVD)**
 Total Depth: 5640.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2854.00 ft (KB)
 2843.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8844 Outside
 Press@RunDepth: 617.89 psig @ 5541.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.27 End Date: 2014.01.28 Last Calib.: 2014.01.28
 Start Time: 17:30:59 End Time: 05:29:44 Time On Btm: 2014.01.27 @ 20:26:29
 Time Off Btm: 2014.01.28 @ 01:04:29

TEST COMMENT: B.O.B. in 3 min.
 No return
 B.O.B. in 6 min.
 Return blow in 40 min. built to 1 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2845.47	122.39	Initial Hydro-static
1	136.63	123.65	Open To Flow (1)
6	159.93	128.58	Shut-In(1)
65	1605.01	130.12	End Shut-In(1)
67	198.17	130.25	Open To Flow (2)
154	617.89	138.34	Shut-In(2)
277	1552.23	136.14	End Shut-In(2)
278	2732.04	135.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	g w 15g 85w	5.85
248.00	g s m c w trace of oil 10g 10m 80w	3.48
144.00	g m c w trace of oil 10g 40m 50w	2.02
0.00	164' weak gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp

17-30s-31w Haskell, KS

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

Hammer A #1-17

ATTN: Dave Williams

Job Ticket: 56621

DST#: 5

Test Start: 2014.01.27 @ 17:30:59

GENERAL INFORMATION:

Formation: **St. Louis A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:27:29

Time Test Ended: 05:55:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 5540.00 ft (KB) To 5604.00 ft (KB) (TVD)

Reference Elevations: 2854.00 ft (KB)

Total Depth: 5640.00 ft (KB) (TVD)

2843.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6771 Inside

Press@RunDepth: psig @ 5541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.27

End Date: 2014.01.28

Last Calib.: 2014.01.28

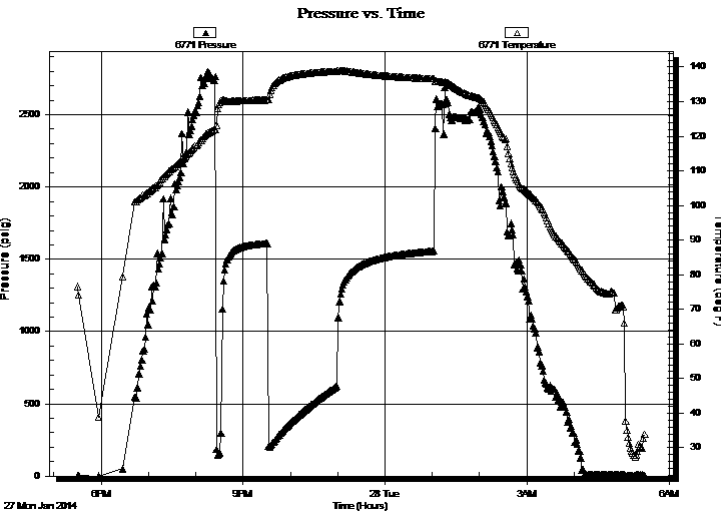
Start Time: 17:30:15

End Time: 05:30:00

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 3 min.
No return
B.O.B. in 6 min.
Return blow in 40 min. built to 1 1/2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
558.00	g w 15g 85w	5.85
248.00	g s m c w trace of oil 10g 10m 80w	3.48
144.00	g m c w trace of oil 10g 40m 50w	2.02
0.00	164' weak gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56621

DST#: 5

ATTN: Dave Williams

Test Start: 2014.01.27 @ 17:30:59

Tool Information

Drill Pipe:	Length: 5320.00 ft	Diameter: 3.80 inches	Volume: 74.63 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	105000.0 lb
			<u>Total Volume: 75.70 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	85000.00 lb
Depth to Top Packer:	5540.00 ft			Final	93000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	92.00 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			5513.00	
Shut In Tool	5.00			5518.00	
Hydraulic tool	5.00			5523.00	
Jars	5.00			5528.00	
Safety Joint	3.00			5531.00	
Packer	5.00			5536.00	28.00 Bottom Of Top Packer
Packer	4.00			5540.00	
Stubb	1.00			5541.00	
Recorder	0.00	6771	Inside	5541.00	
Recorder	0.00	8844	Outside	5541.00	
Perforations	24.00			5565.00	
Change Over Sub	1.00			5566.00	
Drill Pipe	32.00			5598.00	
Change Over Sub	1.00			5599.00	
Bullnose	5.00			5604.00	64.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp

17-30s-31w Haskell,KS

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

Hammer A #1-17

Job Ticket: 56621

DST#: 5

ATTN: Dave Williams

Test Start: 2014.01.27 @ 17:30:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

59000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	g w 15g 85w	5.851
248.00	g s m c w trace of oil 10g 10m 80w	3.479
144.00	g m c w trace of oil 10g 40m 50w	2.020
0.00	164' weak gas in pipe	0.000

Total Length: 950.00 ft Total Volume: 11.350 bbl

Num Fluid Samples: 0

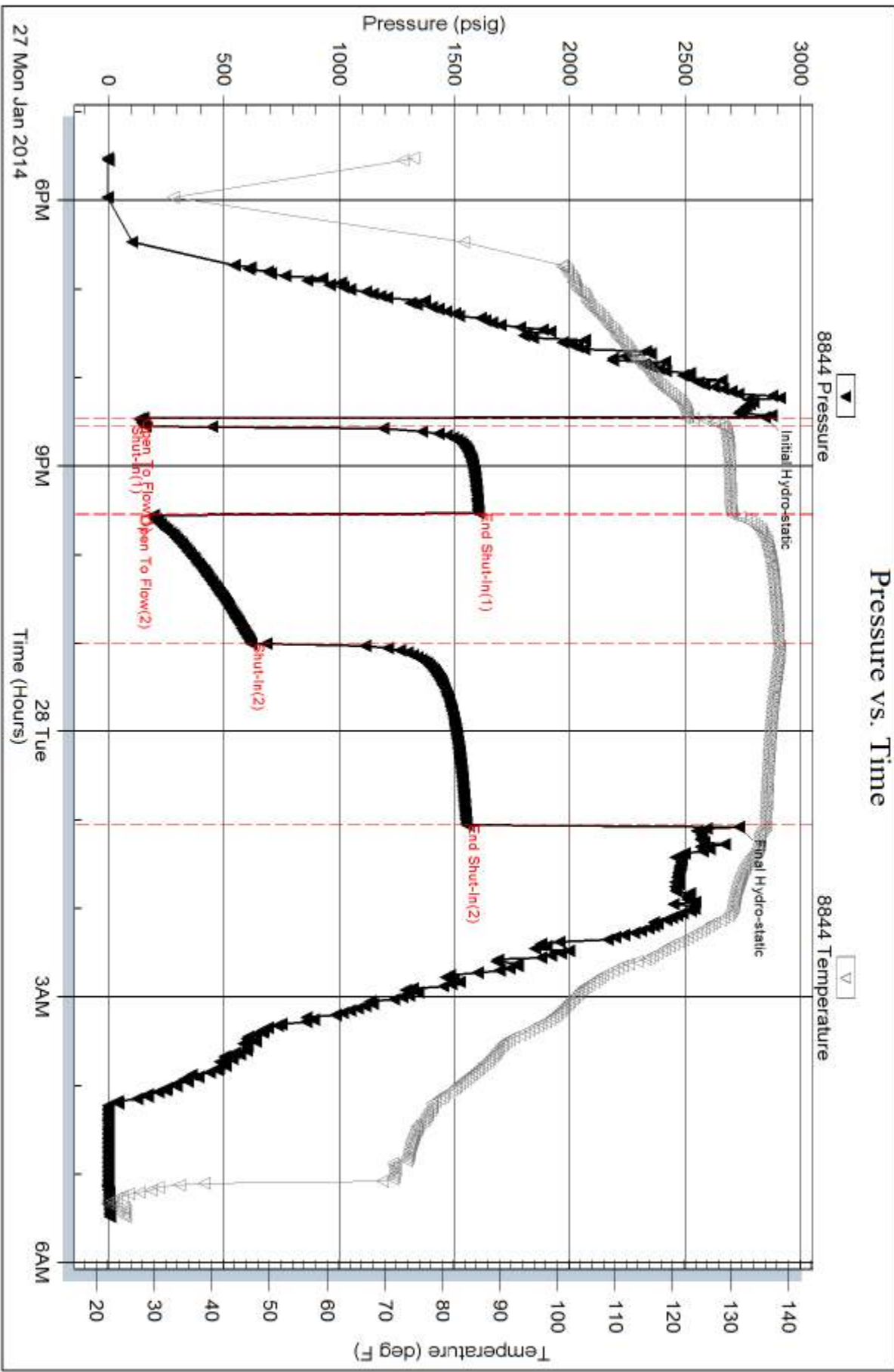
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .237 @ 35*f = 59,000 chlor



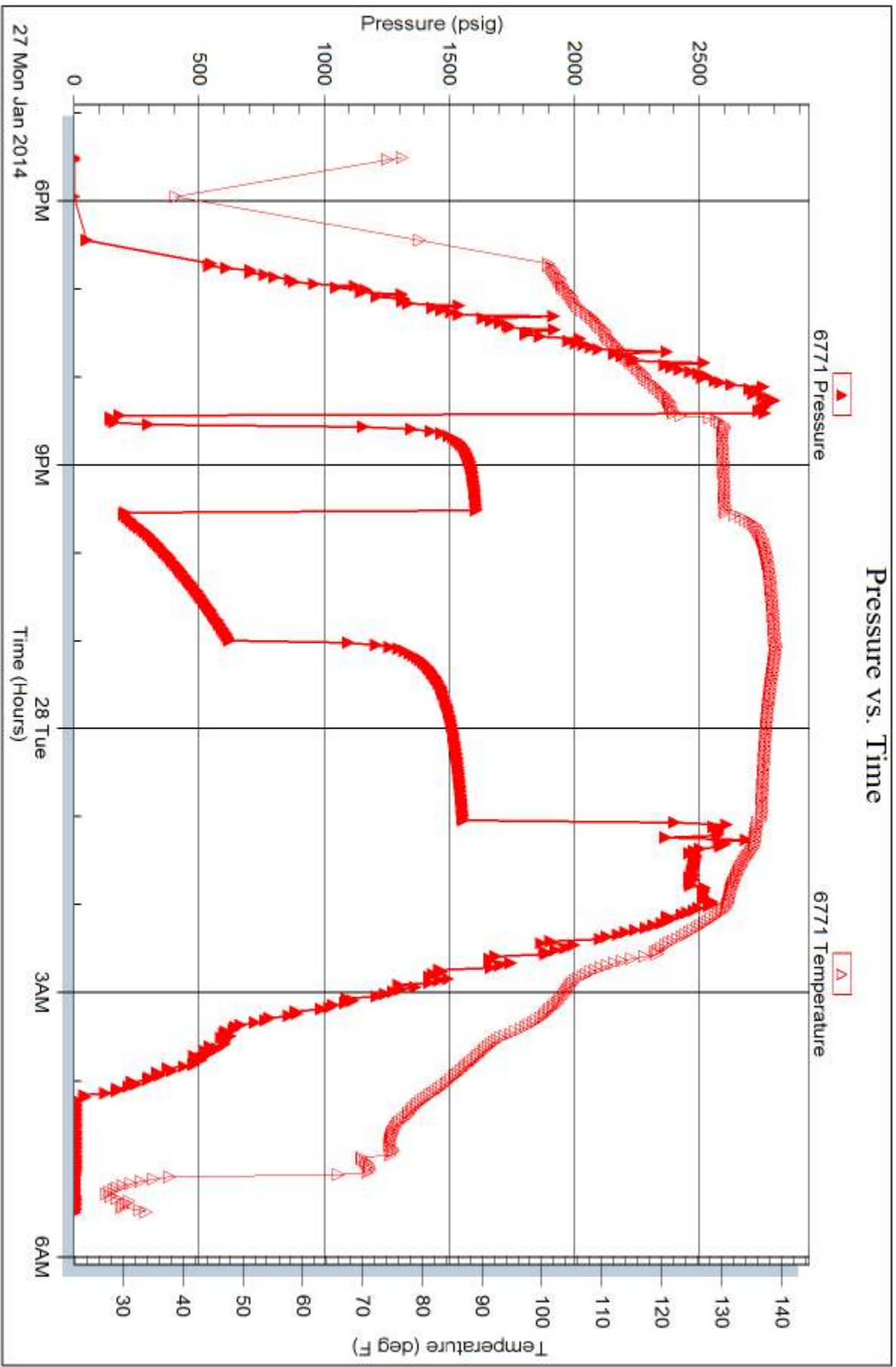
Serial #: 6771

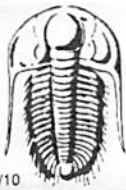
Inside

McCoy Petroleum Corp

Hammer A #1-17

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56617

Well Name & No. Hammer A. #1-17 Test No. #1 Date 1/21/14
 Company McCoy Petroleum Corp Elevation 2854 KB 2843 GL
 Address 8080 E Central Ste 300, Wichita, KS 67206-2366
 Co. Rep / Geo. Dave Williams Rig Sterling #2
 Location: Sec. 17 Twp. 30S Rge. 31W Co. Haskell State Ks

Interval Tested 4689 4720 Zone Tested Swope
 Anchor Length 31 Drill Pipe Run 4459' Mud Wt. 9.1
 Top Packer Depth 4684 Drill Collars Run 217' Vis 59
 Bottom Packer Depth 4689 Wt. Pipe Run --- WL 8.0
 Total Depth 4720 Chlorides 1800 ppm System LCM #2
 Blow Description 1/4" @ open built to 3/4" in.

No return
9 1/2" in blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>Sw cm</u>	<u>scum</u>	<u>15</u>	<u>85</u>	<u>---</u>
<u>60'</u>	<u>mcw</u>	<u>scum</u>	<u>75</u>	<u>25</u>	<u>---</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>60' Gas in pipe</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

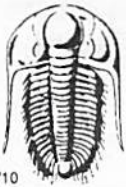
Rec Total 120" BHT 117° Gravity --- API RW 265 @ 60° F Chlorides 29,500 ppm

(A) Initial Hydrostatic <u>2328</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:35</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:05</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:43</u>
(D) Initial Shut-In <u>1074</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>21:18</u>
(E) Second Initial Flow <u>52</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1 1/2 hrs 150</u>	T-Out <u>00:21</u>
(F) Second Final Flow <u>70</u>	<input checked="" type="checkbox"/> Mileage <u>174 RT 269.70</u>	Comments <u>Rig was to be on bank</u>
(G) Final Shut-In <u>1020</u>	<input type="checkbox"/> Sampler	<u>@ 12:30 didn't get on bank till</u>
(H) Final Hydrostatic <u>2274</u>	<input type="checkbox"/> Straddle	<u>14:30 pm No one called to say they</u>

Initial Open 5 Shale Packer Extra Copies
 Initial Shut-In 60 Extra Packer Sub Total 0
 Final Flow 90 Extra Recorder Total 1994.70
 Final Shut-In 120 Day Standby MP/DST Disc't
 Accessibility Sub Total 1994.70

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56618

4/10

Well Name & No. Hammer A #1-17 Test No. #2 Date 1/23/14
 Company McCoy Petroleum Corp Elevation 2854 KB 2843 GL
 Address 8080 E Central Ste 300, Wichita, KS 67206 - 2366
 Co. Rep / Geo. Dave Williams Rig Sterling #2
 Location: Sec. 17 Twp. 30s Rge. 31w Co. Haskell State Ks

Interval Tested 4928 4996 Zone Tested Pawnee
 Anchor Length 68 Drill Pipe Run 4714' Mud Wt. 9.2
 Top Packer Depth 4923 Drill Collars Run 217' Vis 54
 Bottom Packer Depth 4928 Wt. Pipe Run — WL 7.2
 Total Depth 4996 Chlorides 2300 ppm System LCM #2 1/2

Blow Description B.O.B. in 3min
No return

B.O.B. in 1min
Return blow in 6min built to 3 1/2" in. died in 98min.

Rec	Feet of	%gas	Heavy Scum %oil	%water	%mud
<u>60</u>	<u>gs wcm</u>	<u>5</u>	<u>Scum</u>	<u>10</u>	<u>85</u>
<u>60</u>	<u>gm cw</u>	<u>10</u>	<u>Scum</u>	<u>50</u>	<u>40</u>
<u>180'</u>	<u>gs m cw</u>	<u>10</u>	<u>Scum</u>	<u>80</u>	<u>10</u>
<u>—</u>	<u>1980' Gas. Pipe</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>—</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 300' BHT 122° Gravity — API RW .141 @ 55° F Chlorides 65000 ppm

(A) Initial Hydrostatic <u>2409</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>02:05</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:45</u>
(C) First Final Flow <u>50</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>06:02</u>
(D) Initial Shut-In <u>1492</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>11:07</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>150</u>	<input checked="" type="checkbox"/> Mileage <u>174 RT 269.70</u>	Comments
(G) Final Shut-In <u>1397</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2351</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

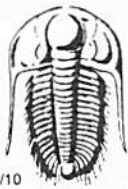
Sub Total 1844.70

Total 1844.70

MP/DST Disc't

Approved By Dave Williams Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56619

Well Name & No. Hammer A #1-17 Test No. #3 Date 1-25-14
 Company McCoy Petroleum Corp Elevation 2854 KB 2843 GL
 Address 8080 E Central Ste 300, Wichita, KS 67206-2366
 Co. Rep / Geo. Dave Williams Rig Sterling #2
 Location: Sec. 17 Twp. 30S Rge. 31W Co. Haskell State Ks

Interval Tested 5161 5235 Zone Tested Cherokee
 Anchor Length 74 Drill Pipe Run 4938' Mud Wt. 9.3
 Top Packer Depth 5154 Drill Collars Run 217' Vis 6.2
 Bottom Packer Depth 5161 Wt. Pipe Run --- WL 8.4
 Total Depth 5235 Chlorides 3200 ppm System LCM #2

Blow Description B.O.B in 1min
4 No return
B.O.B. @ open
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>gmco</u>	<u>20</u>	<u>50</u>	<u>30</u>	<u>---</u>
<u>120'</u>	<u>gsmco</u>	<u>35</u>	<u>55</u>	<u>10</u>	<u>---</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>(4371' GAS IN P. PE)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 120° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic	<u>2614</u>	<input checked="" type="checkbox"/> Test	<u>1350</u>	T-On Location	<u>18:35</u>
(B) First Initial Flow	<u>37</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>19:00</u>
(C) First Final Flow	<u>34</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>21:21</u>
(D) Initial Shut-In	<u>1407</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>01:56</u>
(E) Second Initial Flow	<u>27</u>	<input type="checkbox"/> Hourly Standby		T-Out	
(F) Second Final Flow	<u>75</u>	<input checked="" type="checkbox"/> Mileage	<u>174 RT + 46 (240 Total)</u>	Comments	<u>Rig Short Tripped drove an extra 46 miles.</u>
(G) Final Shut-In	<u>1348</u>	<input type="checkbox"/> Sampler	<u>372</u>		
(H) Final Hydrostatic	<u>2572</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>5</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>40</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>90</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>120</u>	<input type="checkbox"/> Day Standby		Total	<u>2047</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>2047</u>		

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56620

Well Name & No. Hammer A #1-17 Test No. #4 Date 1/26/14
 Company McCoy Petroleum Corp Elevation 2854 KB 2843 GL
 Address 8080 E Central St 300, Wichita, KS 67206-2366
 Co. Rep / Geo. Dave Williams Rig Stirling #2
 Location: Sec. 17 Twp. 30 Rge. 31 Co. Haskell State Ks

Interval Tested 5230 5340 Zone Tested Atoka - Morrow
 Anchor Length 110' Drill Pipe Run 5002' Mud Wt. 9.4
 Top Packer Depth 5225 Drill Collars Run 217' Vis 57
 Bottom Packer Depth 5230 Wt. Pipe Run --- WL 7.4
 Total Depth 5340 Chlorides 3300 ppm System LCM #3

Blow Description 1 1/2" in blow
No return
Weak surface blow died in 22 min
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>Med</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60' BHT 122° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2712</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>00:35</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>01:25</u>
(C) First Final Flow <u>39</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:25</u>
(D) Initial Shut-In <u>151</u>	<input checked="" type="checkbox"/> Circ Sub <u>W/C</u>	T-Pulled <u>07:30</u>
(E) Second Initial Flow <u>43</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>47</u>	<input checked="" type="checkbox"/> Mileage <u>174</u> 269.70	Comments
(G) Final Shut-In <u>69</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2573</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

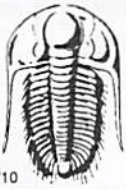
Initial Open 5
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 60

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1944.70
 Total 1944.70
 MP/DST Disc't

Approved By Dave Williams Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56621

Well Name & No. Hammel A #1-17 Test No. #5 Date 1/27/14
 Company McCoy Petroleum Corp Elevation 2854 KB 2843 GL
 Address 8080 Central St 300, Wichita Ks 67206-2366
 Co. Rep / Geo. Dave Williams Rig Sterling #2
 Location: Sec. 17 Twp. 305 Rge. 31w Co. Haskell State Ks

Interval Tested 5540 5604 Zone Tested St. Louis A
 Anchor Length 69 Drill Pipe Run 5320 Mud Wt. 9.2
 Top Packer Depth 5535 Drill Collars Run 217' Vis 55
 Bottom Packer Depth 540 Wt. Pipe Run — WL 7.6
 Total Depth 5604 Chlorides 1750 ppm System LCM #3

Blow Description B.O.B. in 3min
No return
B.O.B. in 6min
return blow in 40min built to 1 1/2" in.

Rec	Feet of	Trace of Oil	%gas	%oil	%water	%mud
<u>144'</u>	<u>gmcw</u>	<u>Trace of Oil</u>	<u>10</u>	<u>Trace</u>	<u>50</u>	<u>40</u>
<u>248</u>	<u>gsmcw</u>	<u>Trace of Oil</u>	<u>10</u>	<u>Trace</u>	<u>80</u>	<u>10</u>
<u>558</u>	<u>gw</u>		<u>15</u>		<u>85</u>	

Rec Total 950' BHT 138° Gravity — API RW .237 @ 35° F Chlorides 59,000 ppm

(A) Initial Hydrostatic <u>2845</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>17:05</u>
(B) First Initial Flow <u>136</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:30</u>
(C) First Final Flow <u>159</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:25</u>
(D) Initial Shut-In <u>1605</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>01:00</u>
(E) Second Initial Flow <u>198</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:55</u>
(F) Second Final Flow <u>617</u>	<input checked="" type="checkbox"/> Mileage <u>174 RT</u> <u>539.40</u>	Comments <u>loaded tools 1/29 12:15</u>
(G) Final Shut-In <u>1552</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2732</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
	<input type="checkbox"/> Day Standby <u>1d 6.25h</u>	Total <u>3014.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2214.40</u>	

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

Approved By Dave Williams Our Representative [Signature]

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ALLIED OIL & GAS SERVICES, LLC 053059

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Liberal (21)

DATE <u>1-16-14</u>	SEC. <u>7</u>	TWP. <u>30 S</u>	RANGE <u>31 W</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00 pm</u>	JOB FINISH <u>6:00 pm</u>
LEASE <u>Hammer</u>		WELL # <u>A 1-17</u>	LOCATION <u>4 miles South of Sublette to</u>		COUNTY <u>Haskell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Starling Drilling #2 OWNER _____
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. _____
 CASING SIZE 8 7/8 24# DEPTH 1838'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 41.29
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 114.5 bbl
 EQUIPMENT _____

CEMENT
 AMOUNT ORDERED 670sk class A 65/35
6 1/2 gel, 3 1/2 CC, 1/4 flo-seal
200sk Class A 3 1/2 CC, 1/4 flo-seal
 COMMON Class A 200sk 17.90 3,580.00
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE 29 sk @ 64.00 1,856.00
 ASC _____ @ _____
ALCA Class A 670sk @ 16.50 11,055.00
FLSL-Flo-Seal 218lb @ 2.97 647.46
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING 984 cu ft @ 2.48 2,440.32
 MILEAGE 1,455 ton mile @ 2.60 3,783.00
 TOTAL 23,361.78

PUMP TRUCK CEMENTER Aldo E.
 # 531-541 HELPER Cesar Pavia
 BULK TRUCK
 # 470-467 DRIVER Alex Corona
 BULK TRUCK
 # 869-841 DRIVER Gregory Randall

REMARKS:

SERVICE

DEPTH OF JOB 1838'
 PUMP TRUCK CHARGE _____ 2,213.75
 EXTRA FOOTAGE _____ @ _____
 MILEAGE Light 35mi @ 4.40 154.00
 MANIFOLD and Head 1 @ _____ 275.00
Heavy Vehicle 35mi @ 7.70 269.50
 @ _____

CHARGE TO: Mc Coy Petroleum Corp.
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 2,912.25

PLUG & FLOAT EQUIPMENT

Guide Shoe 1 @ 460.98 460.98
AFU Float Valve 1 @ 446.94 446.94
Top Rubber Plug 1 @ 131.04 131.04
Centralizer 5 @ 74.88 374.40
Basket 1 @ 559.26 559.26

TOTAL 1,972.62

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

SALES TAX (If Any) _____
 TOTAL CHARGES 28,246.65
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Calvin Mikkelsen
 SIGNATURE [Signature]

NET = 19,772.65

ALLIED OIL & GAS SERVICES, LLC 053060

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Liberal (21)

DATE <i>1-16-14</i>	SEC. <i>7</i>	TWP. <i>30s</i>	RANGE <i>31 w</i>	CALLED OUT	ON LOCATION	JOB START <i>9:00pm</i>	JOB FINISH <i>11:00pm</i>
LEASE <i>Hammer</i>	WELL # <i>A 1-17</i>	LOCATION <i>4 miles south of Sublette 15</i>	COUNTY <i>Haskell</i>	STATE <i>KS</i>			
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Sterling Drilling #2* OWNER _____

TYPE OF JOB _____

HOLE SIZE *12 1/4* T.D. _____

CASING SIZE *8 7/8* DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT *NONE*

CEMENT AMOUNT ORDERED *110 sk Class A Neat*

3% cc on the fly

EQUIPMENT

PUMP TRUCK CEMENTER *Aldo E.*

531-541 HELPER *Cesar Pavia*

BULK TRUCK

562-528 DRIVER *Ruben Perez*

BULK TRUCK

_____ DRIVER _____

COMMON <i>Class A 110 sk</i>	@	<i>17.90</i>	<i>1,969.00</i>
POZMIX _____	@		
GEL _____	@		
CHLORIDE <i>5 sk</i>	@	<i>64.00</i>	<i>320.00</i>
ASC _____	@		
_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
HANDLING <i>minimum charge</i>	@	<i>400.00</i>	<i>400.00</i>
MILEAGE <i>264.75 ton/mk</i>	@	<i>2.60</i>	<i>688.35</i>
TOTAL			<i>3,377.35</i>

REMARKS:

SERVICE

DEPTH OF JOB <i>0-500'</i>		
PUMP TRUCK CHARGE		<i>1,562.50</i>
EXTRA FOOTAGE _____	@	
MILEAGE <i>Heavy 50</i>	@	<i>7.70 385.00</i>
MANIFOLD _____	@	
<i>Light Vehicle 50</i>	@	<i>4.40 220.00</i>
_____	@	

TOTAL *2,167.50*

CHARGE TO: *Mc Coy Petroleum Corp.*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	
_____	@	
_____	@	
_____	@	
_____	@	
TOTAL _____		

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

PRINTED NAME *Ruben Martinez*

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES *5,544.85*

DISCOUNT _____ IF PAID IN 30 DAYS

NET = *4,713.12*

ALLIED OIL & GAS SERVICES, LLC 053064

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Liberal (21)

DATE <u>1-29-14</u>	SEC. <u>7</u>	TWP. <u>30S</u>	RANGE <u>31 W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30pm</u>	JOB FINISH <u>10:30am</u>
LEASE <u>Hammer A</u> WELL # <u>1-17</u>		LOCATION <u>4 mile South of Sublette</u>			COUNTY <u>Haskell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>7 mile East on 230, one North on #AD</u>					

CONTRACTOR stalling
 TYPE OF JOB Plug to Abandon
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 8 7/8 24" DEPTH 1790
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 16.6" DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT n/a
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER
 CEMENT
 AMOUNT ORDERED 170SK 60/40 4+ gel, 1/4 flo-seal

EQUIPMENT

PUMP TRUCK CEMENTER Aldo E.
 # 700-686 HELPER Cesar Pavia
 BULK TRUCK
 # 869-841 DRIVER Ricardo E. Jose C.
 BULK TRUCK
 # DRIVER

COMMON <u>Class A 10220</u>	@	<u>17.90</u>	<u>1,805.80</u>
POZMIX <u>Fly Ash 68SK</u>	@	<u>9.35</u>	<u>635.80</u>
GEL <u>6 SK</u>	@	<u>23.40</u>	<u>140.40</u>
CHLORIDE	@		
ASC	@		
	@		
	@		
	@		
	@		
	@		
HANDLING <u>176 cu FT</u>	@	<u>2.48</u>	<u>436.48</u>
MILEAGE <u>382 Ten mile</u>	@	<u>2.60</u>	<u>993.80</u>
TOTAL			<u>4,031.68</u>

REMARKS:

SERVICE

DEPTH OF JOB <u>1790</u>		
PUMP TRUCK CHARGE <u>PTA.</u>	@	<u>1,250.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>Heavy 50mi</u>	@	<u>7.70 385.00</u>
MANIFOLD	@	
<u>Light Vehicle 50mi</u>	@	<u>4.40 220.00</u>
TOTAL		
<u>4,855.00</u>		

CHARGE TO: Mc Coy Petroleum
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

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SALES TAX (If Any) _____
 TOTAL CHARGES 5,886.68
 DISCOUNT _____ IF PAID IN 30 DAYS
 NET 5,003.68

PRINTED NAME Walt Martinez
 SIGNATURE _____