

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1254371
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: _____

1254371

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 26320 063839

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dodley, KY

DATE <u>2/17/15</u>	SEC. <u>12</u>	TWP. <u>2</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00a</u>	JOB FINISH <u>6:30p</u>
LEASE <u>Orton</u>	WELL # <u>1-12</u>	LOCATION <u>McDonnell 2 RT Rd 5 NW 10 W</u>			COUNTY <u>Dodley</u>	STATE <u>KY</u>	
OLD OR NEW (Circle one)			<u>1 RT to 6 1/2 N East</u>				

CONTRACTOR <u>Martin &</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Spudwell</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>345</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>345</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>21,001</u>	

CEMENT	AMOUNT ORDERED <u>280cc 370cc</u>
COMMON	<u>280</u> @ <u>17.20</u> <u>5012.00</u>
POZMIX	@
GEL	@
CHLORIDE	<u>290</u> @ <u>10</u> <u>869.00</u>
ASC	@
EQUIPMENT	
<u>Material Total</u> @ <u>5,881.00</u>	
<u>(2,646.45/45%)</u>	
HANDLING	<u>294.00</u> @ <u>2.40</u> <u>729.12</u>
MILEAGE	<u>22.5</u> @ <u>13.555</u> <u>702.11</u>
TOTAL	

PUMP TRUCK CEMENTER <u>Alan Ryan</u>
<u>4957281</u> HELPER <u>Kevin Ryan</u>
BULK TRUCK
<u>818</u> DRIVER <u>Wayne Messalle</u>
BULK TRUCK
DRIVER

REMARKS:

Dodley, KY, Cement, Displace Cement, Grout
Cement Add Grout
1000 to 10 ft
Frank E. Almy, Kevin, Wayne

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	@
MILEAGE	<u>50</u> @ <u>7.20</u> <u>385.00</u>
MANIFOLD	@ <u>225.00</u>
<u>6 to vehicle</u>	<u>50</u> @ <u>200.00</u>
TOTAL	
<u>(2243.33/45%) 4,985.18</u>	

CHARGE TO: Sam Capps ASPL
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.

SALES TAX (If Any) _____
TOTAL CHARGES 10,866.18
DISCOUNT 4,889.78 (45%) IF PAID IN 30 DAYS
5,976.39 Net.

PRINTED NAME Travis Martin
SIGNATURE Travis W. Martin



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr. Associates

12-2S-36W Rawlins KS

1515 Wynkoop
STE 700
Denver Co. 80202
ATTN: Clayton Camozzi

Orten #1-12

Job Ticket: 62305

DST#: 1

Test Start: 2015.02.23 @ 18:22:00

GENERAL INFORMATION:

Formation: **LKC " J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:43:10

Time Test Ended: 04:24:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 78

Interval: 4458.00 ft (KB) To 4496.00 ft (KB) (TVD)

Reference Elevations: 3300.00 ft (KB)

Total Depth: 4829.00 ft (KB) (TVD)

3295.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 101.59 psig @ 4463.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.23

End Date:

2015.02.24

Last Calib.:

2015.02.24

Start Time: 18:22:01

End Time:

04:24:40

Time On Btm:

2015.02.23 @ 21:43:00

Time Off Btm:

2015.02.24 @ 01:50:00

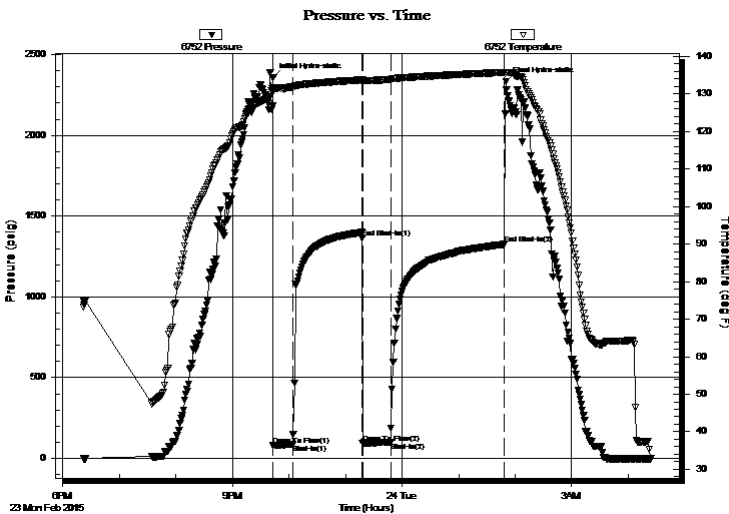
TEST COMMENT: 20 IF - 1" blow built to 2" (in diesel)

75 ISI - No return

30 FF - 1" blow

120 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.30	131.51	Initial Hydro-static
1	79.11	130.84	Open To Flow (1)
22	85.21	131.83	Shut-In(1)
95	1364.35	133.71	End Shut-In(1)
95	93.62	133.30	Open To Flow (2)
125	101.59	133.88	Shut-In(2)
246	1326.21	135.72	End Shut-In(2)
247	2335.08	135.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud - 100%M	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. Associates

12-2S-36W Rawlins KS

1515 Wynkoop
STE 700
Denver Co. 80202
ATTN: Clayton Camozzi

Orten #1-12

Job Ticket: 62305

DST#: 1

Test Start: 2015.02.23 @ 18:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Mud - 100%M	0.639

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

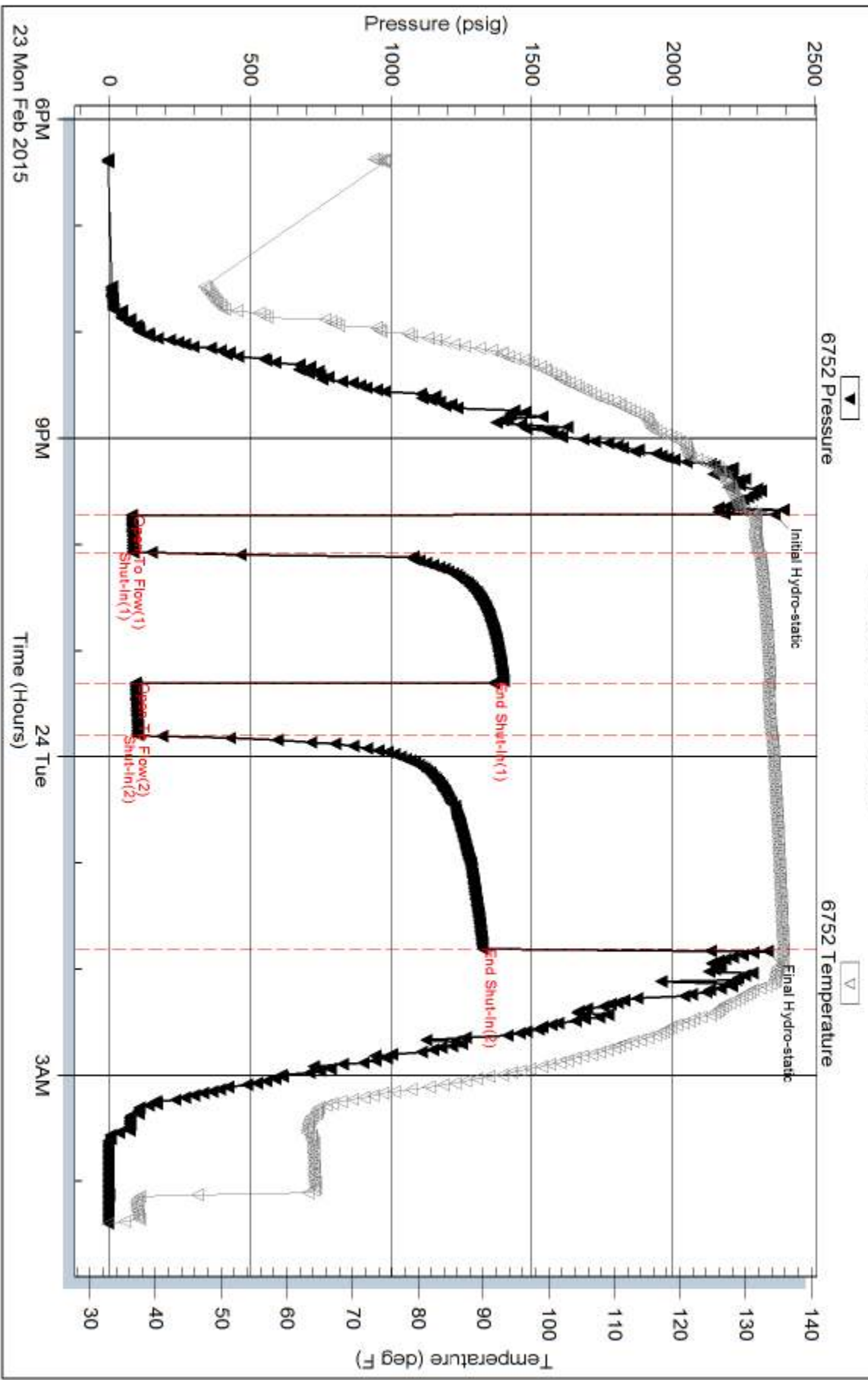
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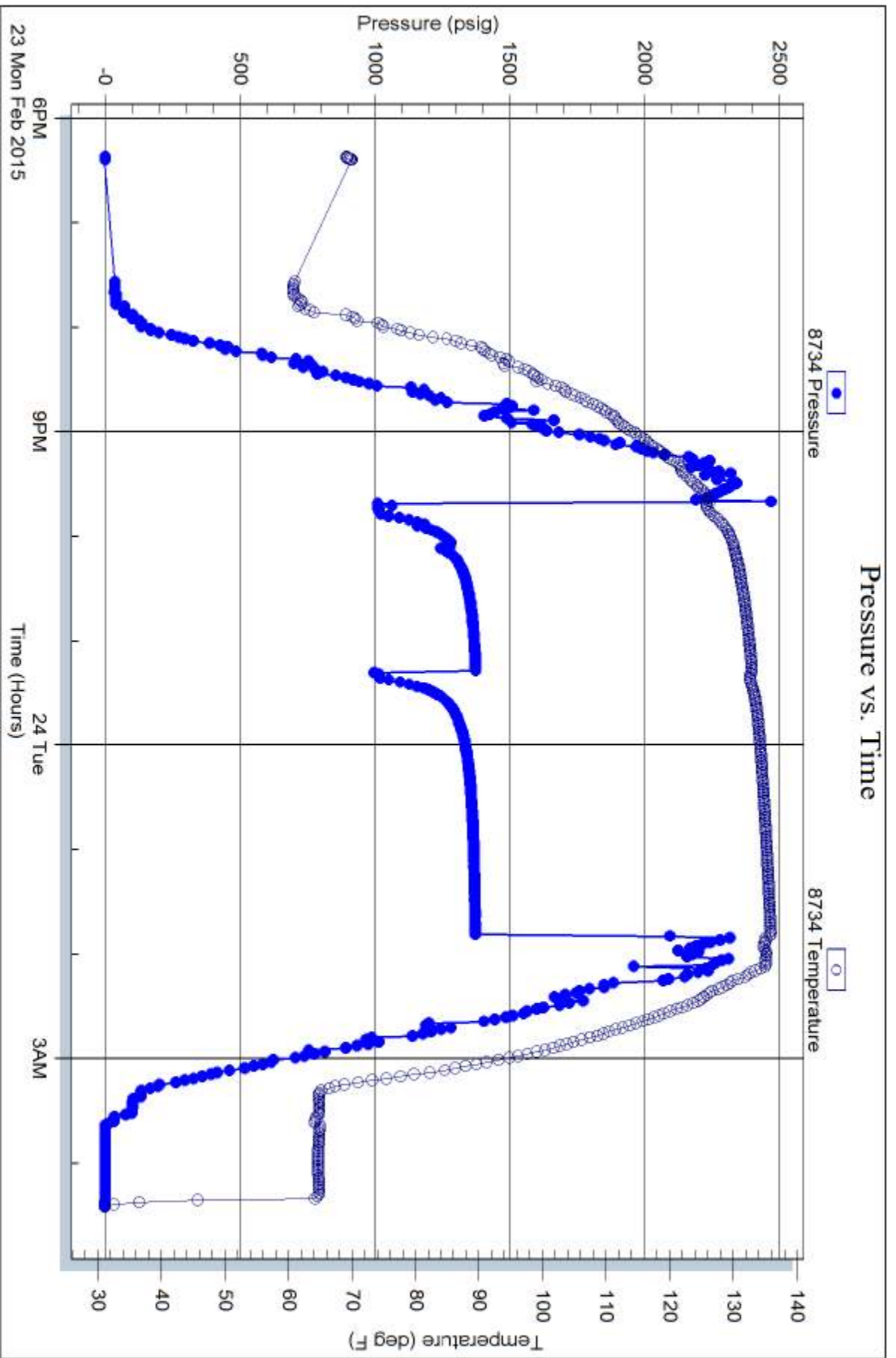
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





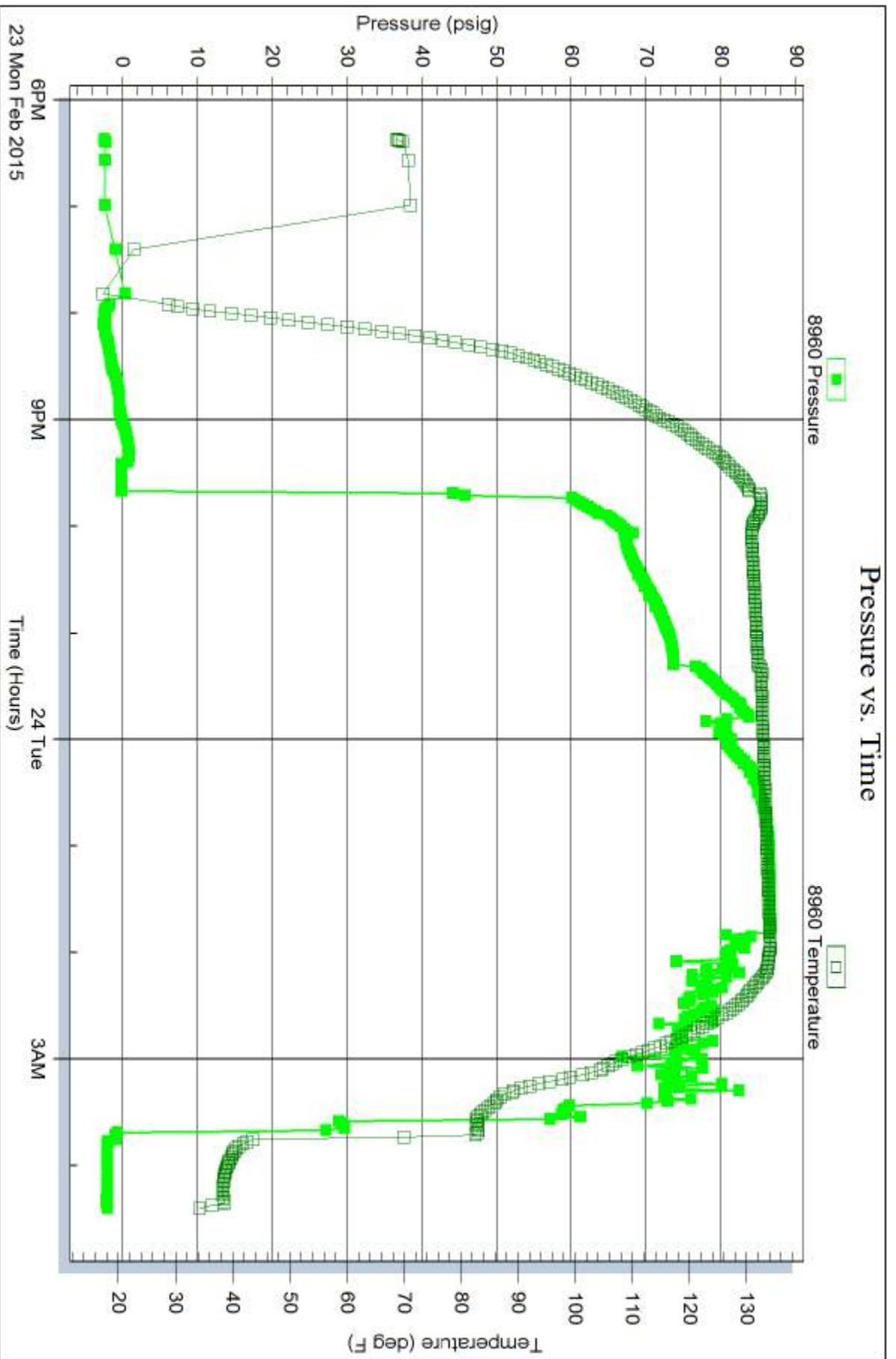
Serial #: 8960

Fluid

Sam Gary Jr. Associates

Orten #1-12

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62305

Printed: 2015.02.24 @ 07:57:13



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

Well Name: Orten 1-12
 Well Id:
 Location: Sec. 12 - T2S - R36W RAWLINS COUNTY, KANSAS
 License Number: 15-153-21102-0000 Region: WILDCAT
 Spud Date: FEB 16, 2015 Drilling Completed: FEB 23, 2015
 Surface Coordinates: 2100 FNL / 2280 FWL

Bottom Hole
 Coordinates:
 Ground Elevation (ft): 3294' K.B. Elevation (ft): 3299'
 Logged Interval (ft): 3950' To: 4827' Total Depth (ft): 4827'
 Formation: Lansing, Kansas City
 Type of Drilling Fluid: Natural Chemical

Printed by WellSight Log Manager from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Samuel Gary Jr. & Assoc.
 Address: 1515 Wynkoop, Ste. # 700
 Denver, Colo. 80202
 Geo: Clayton Camozzi

GEOLOGIST

Name: Schuyler Hedrick/ Blake Ward
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla. 73945
 Off. 888-543-8378 Cell: 580-754-0231

ROCK TYPES

	Anhy		Gyp		Shgy		Sandy lms
	Bent		Igne		Sltst		Shale
	Brec		Lmst		Ss		Sltstn
	Cht		Meta		Till		Shlyslts
	Clyst		Mrlst		Carb sh		Sltys h
	Coal		Salt		Dol		Sltys h
	Congl		Shale		Dtd		Lms
	Dol		Shcol		Gry sh		

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

STRINGER

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

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

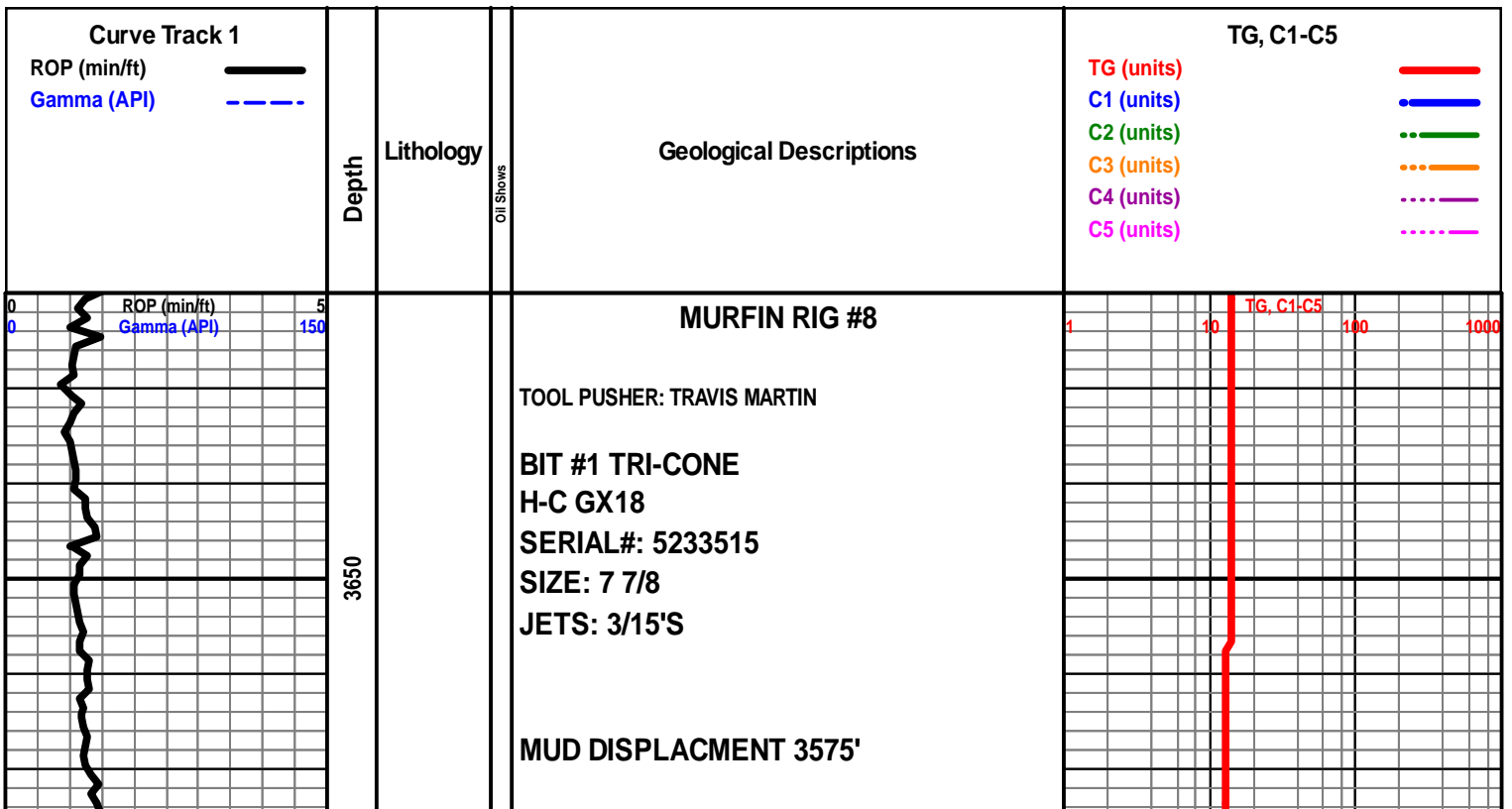
- Even
- Spotted
- Ques
- Dead
- Gas show

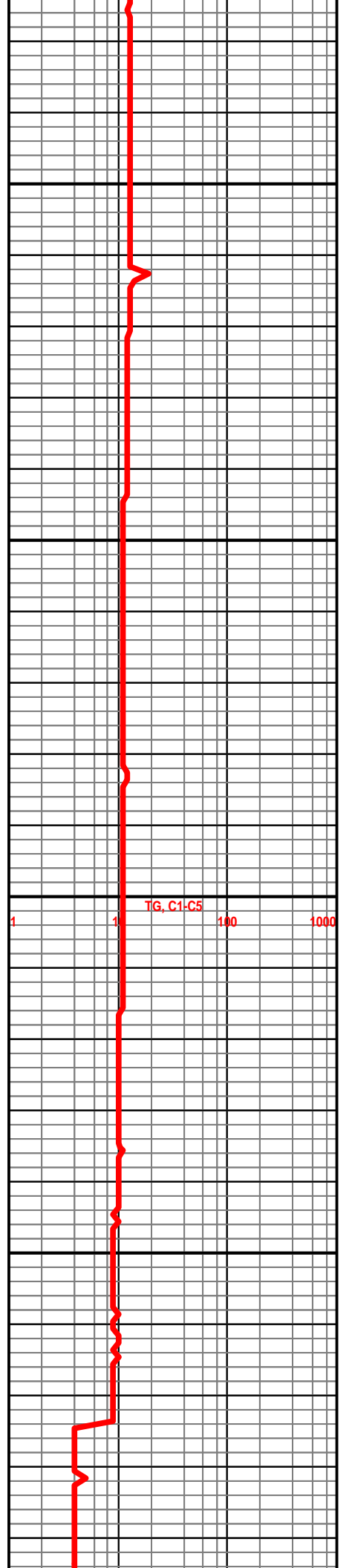
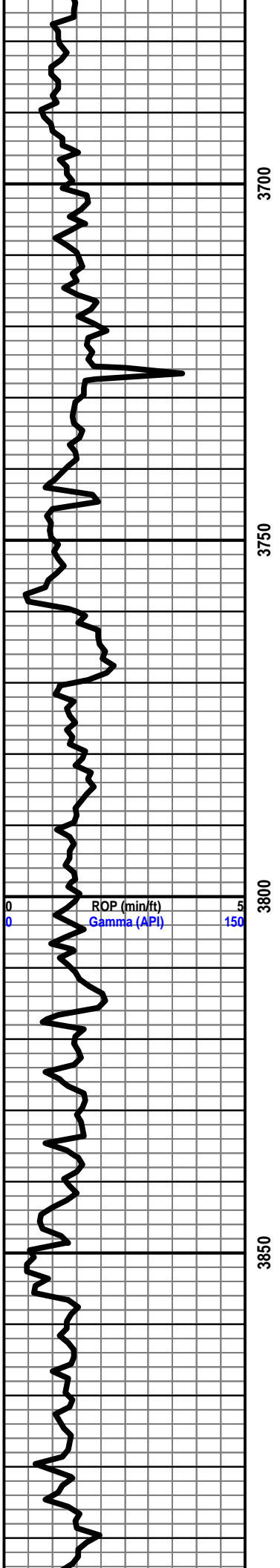
INTERVALS

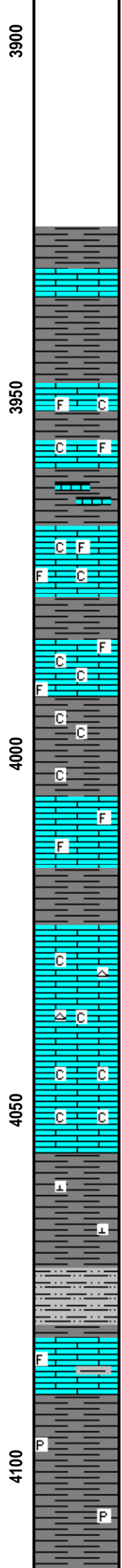
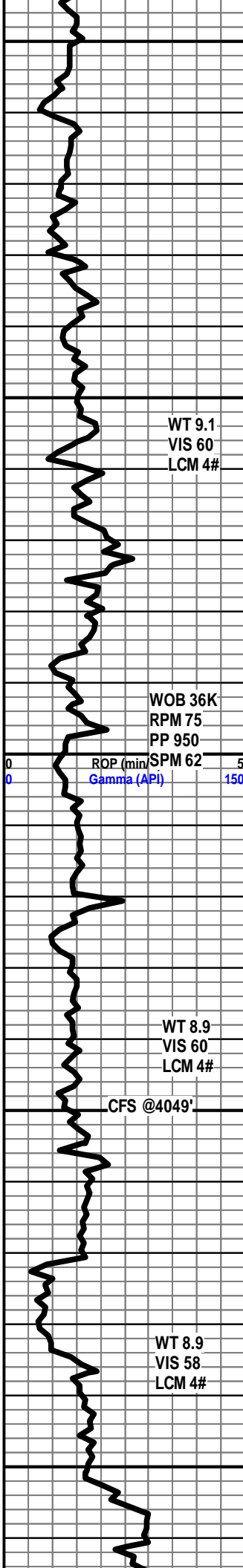
- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall







START 24 HR. MANNED UNIT 2/21/15

SH- RD TO DK RD GY, SFT TO FRM IP, V SLTY TXT, V CALC

LS- OFF WHT TO CRM GY IP, HD DNS, VF/F-XLN, S-CHLKY, TR IMBD FOSS FRGS, TR IMBD GY SH, DLL YEL TO YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

SH- GY TO DK GY RD, FRM TO SFT SLTY TXT, TR LS INTER-BD

LS- CRM TO OFF WHT, HD DNS TO BRTT, MD-XLN, RE-XLN, HVY TR IMBD SM FOSS FRGS, TR IMBD GLAUC, HVY TR FRM WHT CHLK IN TRAY, DLL YEL TO YEL MIN FLO SCAT IN 30%, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRTT IP, MD-XLN, F-XLN IP, RE-XLN, ABDT IMBD MICRO FOSS THRU, TR IMBD SFT WHT CHLK, DLL YEL MIN FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD, SFT TO GMMY, ABDT SFT TO GMMY WHT CHLK THRU TRAY

LS- OFF WHT TO RD, HD DNS, VF/F-XLN, HVY TR IMBD RD SH, TR IMBD FOSS FRGS IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

TOPEKA 4024' (-725')

LS- WHT TO CRM, HD DNS TO BRTT IP, VF/F-XLN, S-CHLKY, TR IMBD CALC-XLS IP, HVY TR FRM TO SFT WHT CHLK IN TRAY, TR WHT CHRT, YEL TO DLL YEL MIN FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW

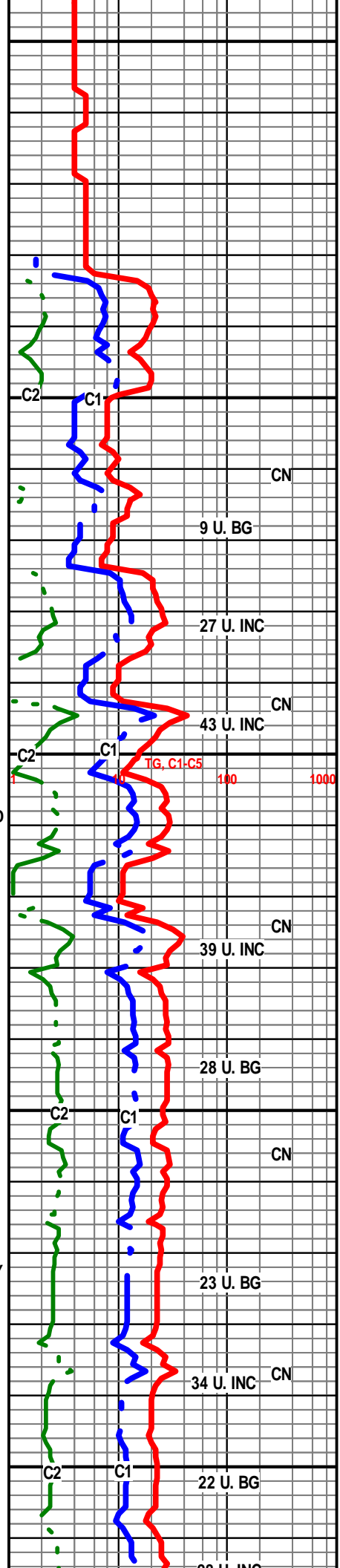
LS- WHT TO CRM, HD DNS, VF/F-XLN, CRYPTO-XLN IP, S-CHLKY, HVY TR SFT TO FRM WHT CHLK, YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK RD, V GMMY TO SFT, SLTY TXT, CALC IP

SLTSTN- GY TO MD GY, HD TO FRI, IMBD VF/F GRNS, HVY TR IMBD GY SH, TR INTER-BD RD SH, NO VIS FLO, NO VIS POR

LS- CRM TO LT TN, HD DNS TO TR BRTT IP, F-XLN, RE-XLN IP, S-CHLKY, TR IMBD RD SH, IMBD SCAT SM FOSS FRGS IP, DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- GY TO MD GY PRP, FRM TO SFT, SLTY TXT, TR IMBD DISS PYR



WT 9.1
VIS 60
LCM 4#

WOB 36K
RPM 75
PP 950
ROP (min) SPM 62
Gamma (API)

WT 8.9
VIS 60
LCM 4#

CFS @4049'

WT 8.9
VIS 58
LCM 4#

CN

9 U. BG

27 U. INC

CN

43 U. INC

CN

39 U. INC

28 U. BG

CN

23 U. BG

CN

34 U. INC

22 U. BG

33 U. INC

C2

C1

C2

C1

C2

C1

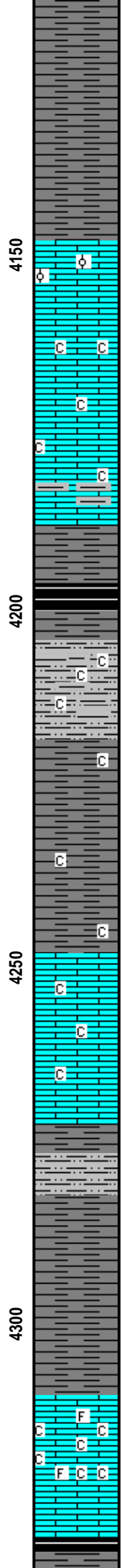
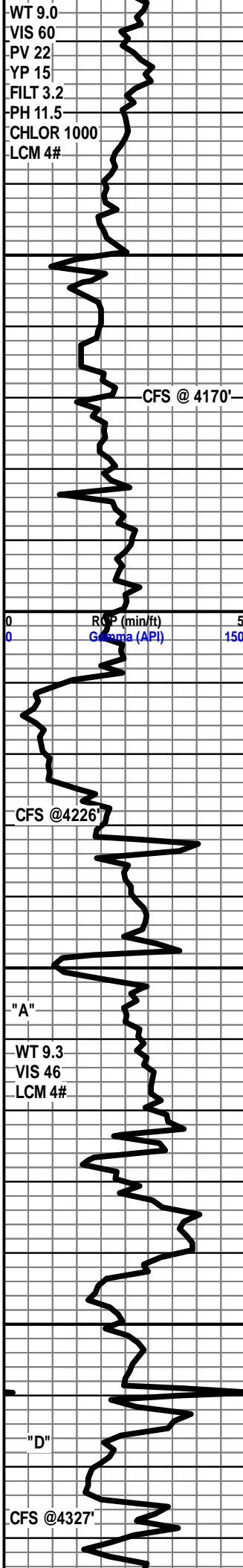
C2

C1

TIG. C1-C5

100

1000



SH- PRP TO RD DK RD, SFT TO FRM IP, V SLTY TXT, SLI TR IMBD DISS PYR IP

SH- RD TO DK RD PRP, FRM TO SFT, BLCKY, SLTY TXT, TR CALC

4150'-4152' LS- CRM TO OFF WHT (W/ BLK TAR OIL STN SCAT IN 20%-30%), HD DNS TO BRIT IP, F-XLN, RE-XLN IP, HVY TR IMBD SM QRTZ GRNS, SLI TR IMBD MICRO OOL, DLL YEL FLO IN 50%, PR INTER-XLN POR IN 1%, GD FLSH CUT, GD SLW STRM IN 50%, TN LCH ON DSH, NO OIL ODOR

LS- OFF WHT TO GRN, HD DNS, VF-XLN, S-CHLKY, IMBD SM CALC-XLS IP, HVY TR SFT TO FRM WHT CHLK, TR INTER-BD GY SH, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 4196' (-897')

SH- BLK SFT CARB

SLT STN- LT GY TO GY OFF WHT IP, HD TT TO FRI, IMBD VF/F-GRNS, S-RND GRNS, WLL SRT. SIL CMNT, HVY TR IMBD GY SH, TR IMBD WHT CHLK, V DLL YEL FLO IP, TR PR INTER-GRN POR IP, NO VIS CUT OR SHOW

SH- RD DK RD GY, FRM TO SFT, SLTY TXT, TR SFT WHT CHLK IN TRAY

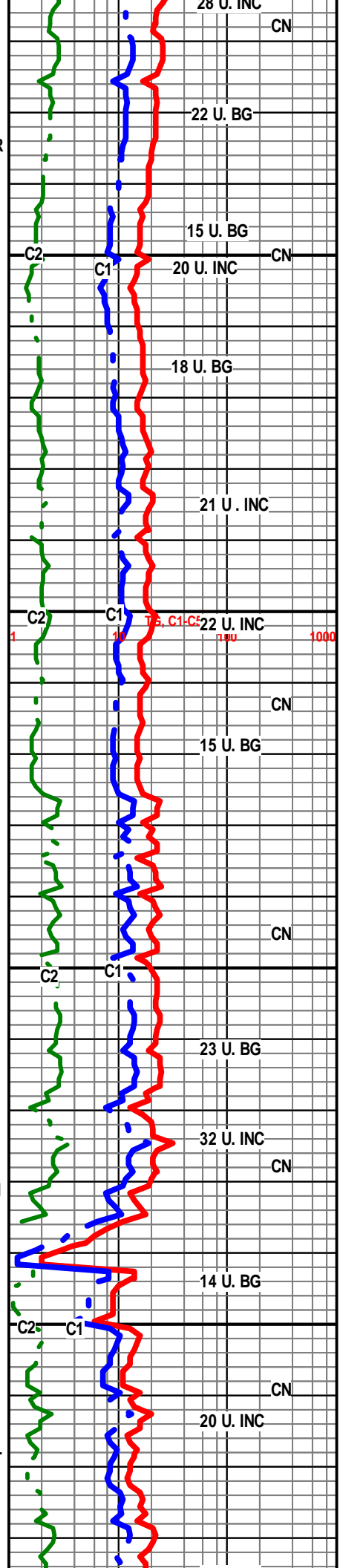
LANSING 4248' (-949')

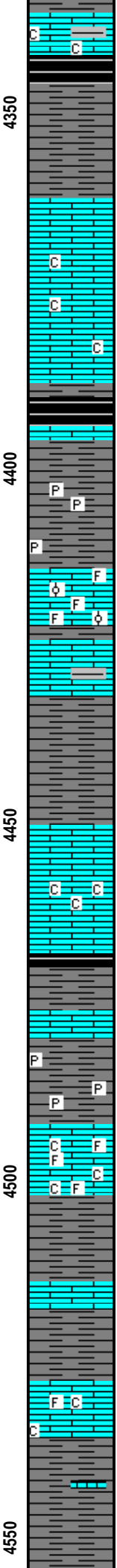
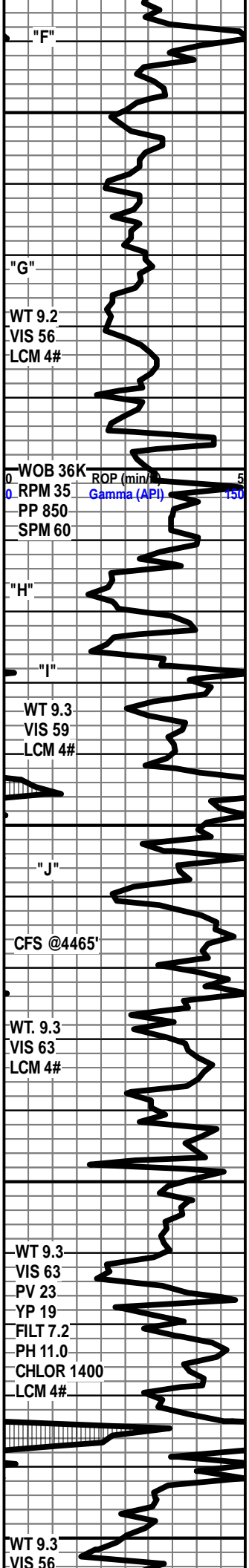
LS- CRM TO OFF WHT, HD DNS TO BRIT, MD-XLN, RE-XLN, S=CHLKY IP, HVY TR IMBD, F QRTZ GRNS, TR IMBD CHLK, DLL YEL FLO IN 50%, PR TO FR MICRO VUG POR IN 4%, NO VIS CUT OR SHOW

4276'-4278' SLT SS- LT GY TO OFF WHT (W/BLK OIL STN IN 60%), HD TO FRI, IMBD VF/F GRNS QRTZ, S-RND TO S-ANGL GRNS, WLL TO FR SRT, SIL CMNT, IMBD GY SH, DLL YEL FLO IN 50%, TR YEL GLD FLO IP, PR INTER GRN POR IN 3%, TR FR INTER GRN POR IP, FR FLSH CUT, FR SLW STRMS THRU, LT TN LCH ON DISH, NO OIL ODOR

LANSING "D" 4310' (-1011')

4310'-4312' LS- CRM TO OFF WHT (W/ BLK TAR OIL STN IN 20%), HD DNS TO BRIT IP, MD/F-XLN, RE-XLN IP, IMBD MICRO FOSS THRU, HVY TR SFT WHT CHLK IN TRAY, DLL YEL FLO IN 40%, BRT YEL GLD IN 10%, PR INTER-XLN POR IN 2%, TR FR INTER-XLN POR IP, FR FLSH CUT, FR TO GD SLW STRM IN 30%, LT TN LCH ON DISH, NO OIL ODOR





LS- OFF WHT TO WHT CRM IP, HD DNS, V F-XLN, CRYPTO-XLN IP, S CHLKY, TR IMBD SH, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

SH- RD TO DK GY, FRM TO GMMY, SLTY TXT, TR PYR CLSTRS

LANSING "G" 4363' (-1064')

LS- CRM TO LT TN, HD DNS TO BRTT, F-XLN, S-CHLKY, TR IMBD WHT CHLK, SCAT IMBD CALC-XLS IP, DLL YEL MIN FLO IN 50%, YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

SH- RD PRP MD GY GRN MOTT, SFT TO FRM IP, SPLNTY SMTH TXT, TR PYR CLSTRS

LS- CRM TO LT TN, HD DNS TO BRTT IP, MD-XLN, V RE-XLN, ABDT IMBD OOL THRU, HVY TR IMBD MICRO FOSS, V DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO OFF WHT, HD DNS, F-XLN, MD-XLN IP, TR IMBD CALC-XLS, IMBD GY SH IP, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- RD TO DK GY GRN MOTT, SFT TO GMMY IP, SLTY TXT

LANSING "J" 4450' (-1151')

4452'-4454' LS- OFF WHT TO CRM (W/ BRN OIL STN IN 10%-20%), HD DNS TO BRTT IP, F-XLN, RE-XLN IP, S-SUCRO, SCAT IMBD S-ANG CLR QRTZ GRNS, DLL YEL FLO IN 30%, YEL GLD FLO IN 20%, PR TO FR INTER-XLN POR IN 2%, TR GD INTER-XLN POR IP, FR MICRO VUG POR IN 2%, GD FLSH CUT, GD SLW STRM IN 50%, TN LCH ON DISH, NO OIL ODOR

SH- BLK SFT CARB

SH- RD TO GY MOTT, SFT TO FRM, HVY TR IMBD DISS PYR

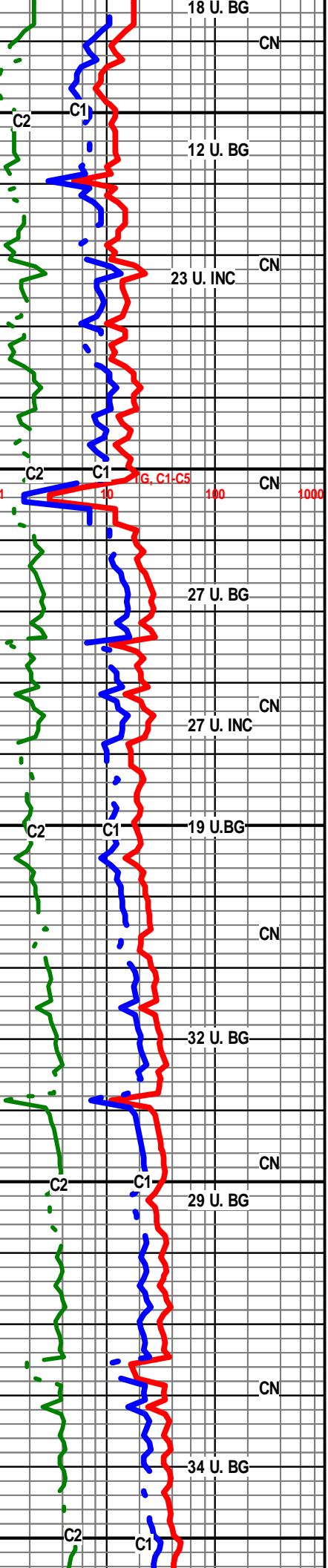
LS- OFF WHT TO CRM, HD DNS TO TR BRTT IP, MD-XLN, RE-XLN, S-CHLKY IP, HVY TR IMBD MICRO FOSS THRU, TR SFT TO FRM WHT CHLK IN TRAY, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

SH- RD GY DK GY FRM TO SFT, SLTY TXT IP, CALC IP

BKC 4517' (-1218')

LS- WHT TO OFF WHT CRM IP, HD DNS, VF-XLN, S-CHLKY, TR IMBD RD SH, SLI TR IMBD SM FOSS FRGS, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GY TO MD GY RD, FRM TO SFT IP, BLKY SMTH TXT, TR INTER-BD LS



18 U. BG

12 U. BG

23 U. INC

27 U. BG

27 U. INC

19 U. BG

32 U. BG

29 U. BG

34 U. BG

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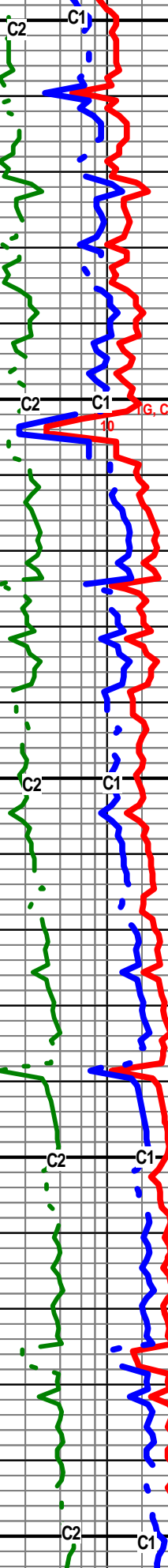
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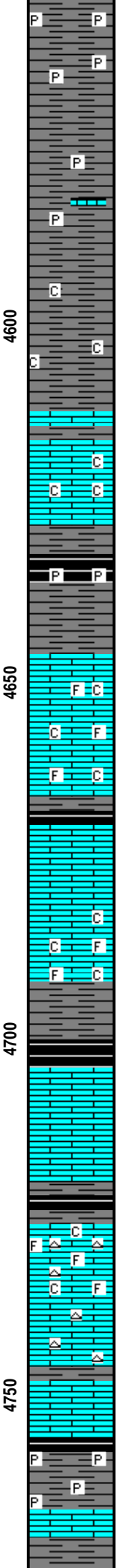
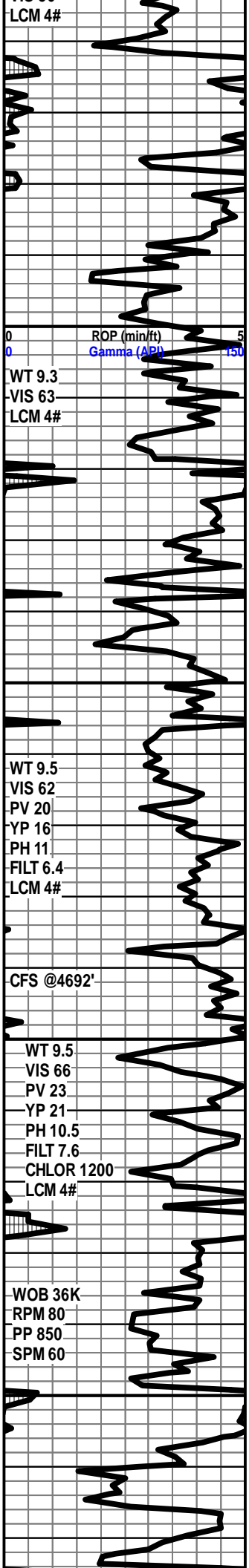
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SH- RD DK RD GY, SFT TO FRM, SLTY TXT IP, TR LG PRED UNCONSOLIDATED QRTZ GRNS, HVY TR PYR CLSTRS

SH- RD DK RD GRN, SFT TO FRM, SPLNTY SLTY TXT, TR PYR, TR INTER-BD LS

SH- RD DK RD BRN, SFT TO GMMY, SLTY TXT, TR SFT WHT CHLK

LS- OFF WHT TO CRM LT GY, V HD DNS, VF-XLN, S-CHLKY, TR IMBD RD SH, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LABETTE SHALE 4633' (-1334')

SH- BLK SFT CARB, W/GY TO DK GY, SFT TO FRM IP, SPLNTY, TR IMBD DISS PYR

LS- WHT TO OFF WHT CRM IP, HD DNS, VF/F-XLN, S-CHLKY, IMBD SM FOSS FRGS, TR IMBD QRTZ GRNS, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW, (SAMPLE QUALITY VERY POOR)

LS- CRM TO LT TN, HD DNS TO BRTT IP, VF-XLN, TR IMBD CLR QRTZ GRNS IP, DLL YEL TO YEL MIN FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD DNS, VF-XLN, S-CHLKY, TR IMBD SM FOSS FRGS, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

FORT SCOTT 4707' (-1408')

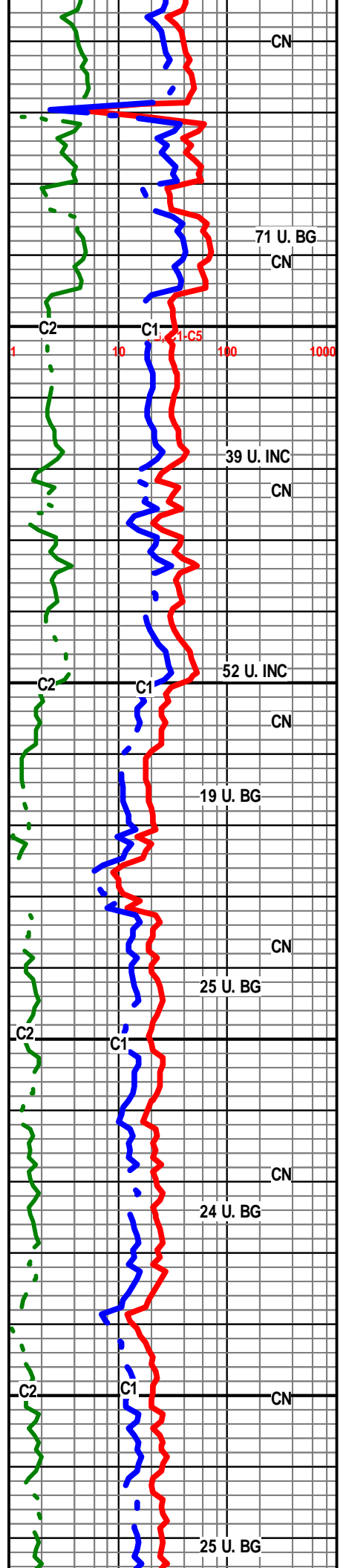
LS- WHT TO OFF WHT, HD DNS, F-XLN, RE-XLN IP, SCAT IMBD S-ANGL CLR QRTZ GRNS, TR IMBD RD SH, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

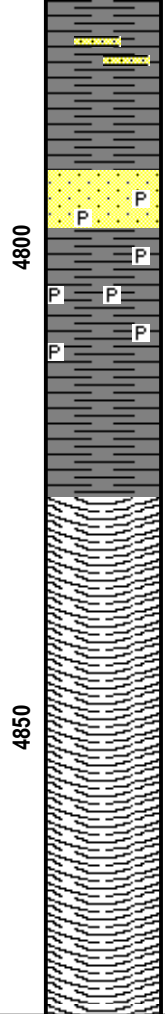
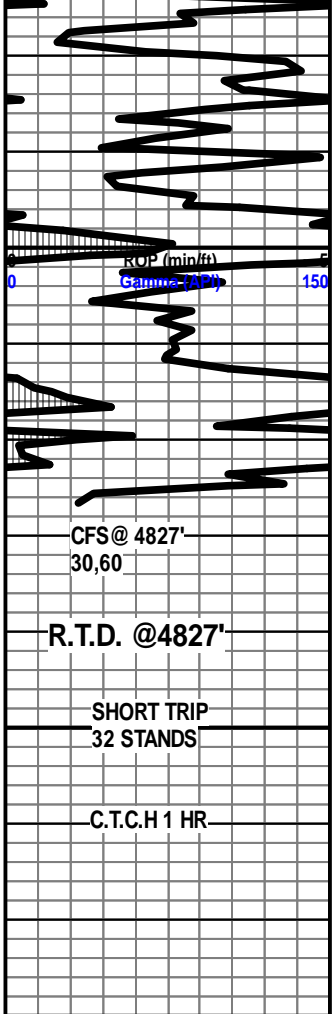
LS- OFF WHT TO L TN, V HD DNS, VF/F-XLN, S-CHLKY IP, TR TN CHRT, TR IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM LT TN IP, HD DNS TO BRTT, F-XLN, RE-XLN IP, HVY TR IMBD CLR QRTZ GRNS, TR TN CHRT, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

BASE OF CHEROKEE 4756' (-1457')

SH- BLK SFT CARB W/ RD TO GY, SFT TO FRM IP, SLTY TXT, HVY TR PYR





SH- RD TO PRP GY MOTT, SFT TO FRM, GRNY TXT, HVY TR INTER-BD SS

SS- CLR TO FRSTY, HD TT, IMBD F-GRNS QRTZ, S-ANGL TO S-RND GRNS, WLL SRT, SIL CMNT, IMBD DISS PYR IP, TR IMBD RD SH, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- RD PRP GRN MOTT, SFT TO GMMY IP, SLTY TXT, HVY TR PYR

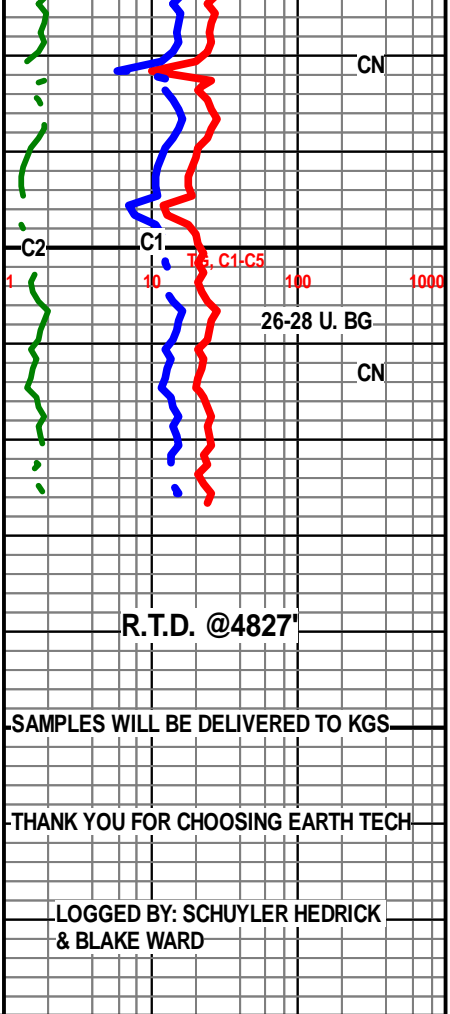
SH- RD PRP GY LT GRN MOTT, SFT, SPLNTY GRNY TXT, TR PRED UNCONSOLIDATED QRTZ GRNS

R.T.D @ 5:45 A.M. 2/23/2015

DROP SURVEY

T.O.F.L. @ 10:15 A.M. 2/23/2015

WEATHERFORD/ LIBERAL, KS



CFS@ 4827'
30,60

R.T.D. @4827'

SHORT TRIP
32 STANDS

C.T.C.H 1 HR

R.T.D. @4827'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

LOGGED BY: SCHUYLER HEDRICK
& BLAKE WARD