



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1232414
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: _____

1232414

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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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	NANCY JOSSERAND 1-8(SW)
Doc ID	1232414

All Electric Logs Run

MEL
DIL
BHCS
CNL/CDL

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	NANCY JOSSERAND 1-8(SW)
Doc ID	1232414

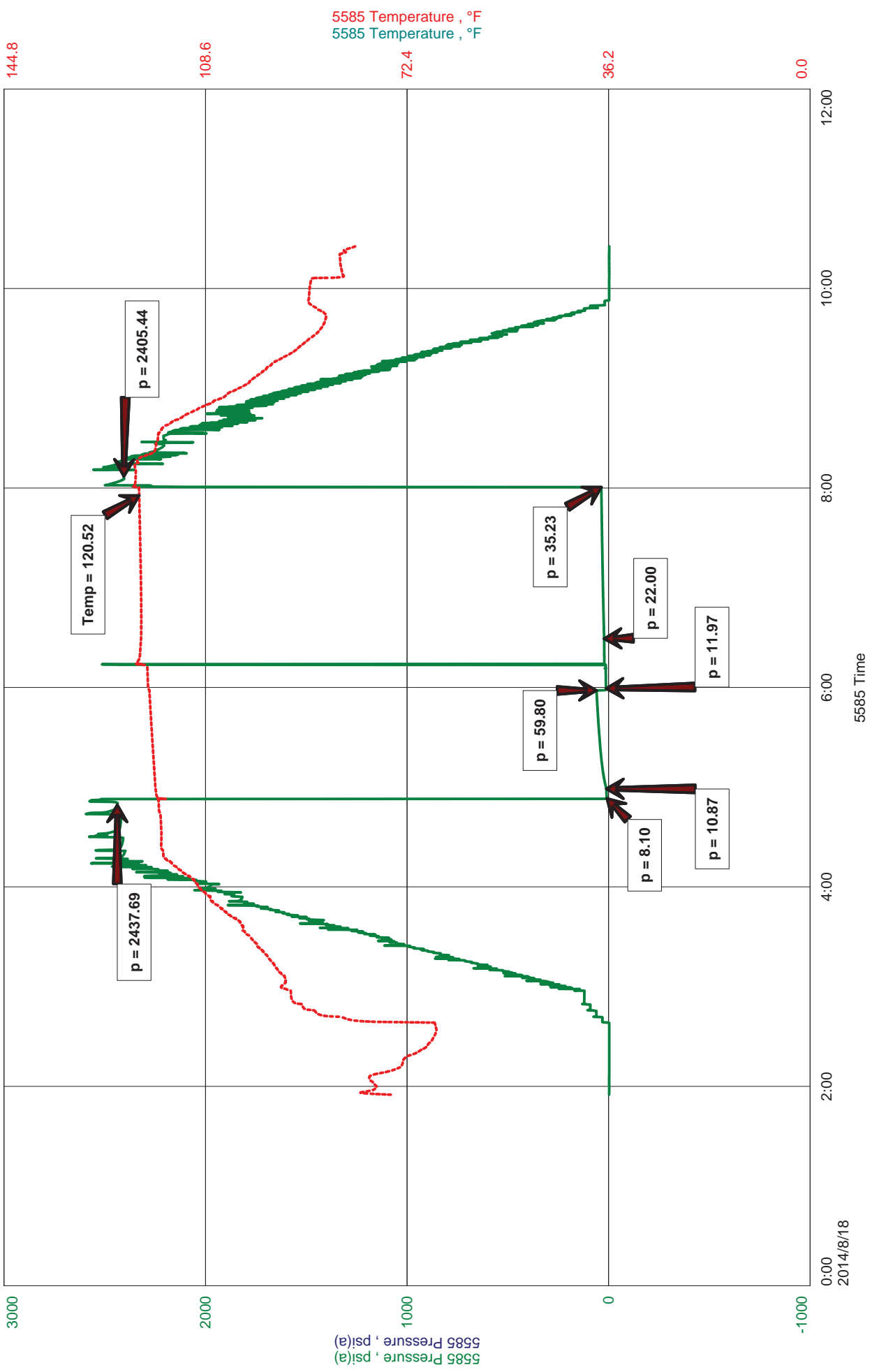
Tops

Name	Top	Datum
ROOT SHALE	3522	-690
STOTLER	3546	-714
LANSING	4262	-1430
PAWNEE	4856	-2024
CHEROKEE SH	4906	-2074
MRW SH	5114	-2282
MISS/ST GEN	5230	-2398
ST LO LWR B POR	5353	-2521

FALCON EXPLORATION INC
DST1 "MORROW" 5102-5165"
Start Test Date: 2014/08/18
Final Test Date: 2014/08/18

N.JOSSERAND 1-8
Formation: DST1 "MORROW" 5102-5165"
Pool: WILDCAT
Job Number: A078

N.JOSSERAND 1-8



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	FALCON EXPLORATION INC	Job Number	A078
Contact	CYNDE WOLF	Representative	ANDY CARREIRA
Well Name	N.JOSSERAND 1-8	Well Operator	FALCON EXPLORATION
Unique Well ID	DST1 "MORROW" 5102-5165"	Report Date	2014/08/18
Surface Location	SEC 8-28S-30W GRAY, CNTY. KS	Prepared By	ANDY CARREIRA
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST1 "MORROW" 5102-5165"
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/08/18	Start Test Time	01:55:00
Final Test Date	2014/08/18	Final Test Time	10:25:00

Gauge Name	5585
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Test Results

RECOVERY: 10' MUD

TOOL SAMPLE: MUD



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 01:55
 TIME OFF: 10:25

DRILL-STEM TEST TICKET
 FILE: N.JOSSERAND 1-8 DST1

Company FALCON EXPLORATION INC Lease & Well No. N.JOSSERAND 1-8
 Contractor STERLING 2 Charge to FALCON EXPLORATION INC
 Elevation 2832 KB Formation MORROW Effective Pay _____ Ft. Ticket No. A078
 Date 8-18-14 Sec. 8 Twp. 28 S Range 30 W County GRAY State KANSAS
 Test Approved By DAVE WILLIAMS Diamond Representative ANDY CARREIRA

Formation Test No. 1 Interval Tested from 5102 ft. to 5165 ft. Total Depth 5165 ft.
 Packer Depth 5097 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5102 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5083 ft. Recorder Number 5585 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 5104 ft. Recorder Number 8471 Cap. 10000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 216.34 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 1900 P.P.M. Drill Pipe Length 4852.66 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 63 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW (NObb)
 2nd Open: NO BLOW. FLUSHED, SURGED, NO BLOW (NObb)

Recovered <u>10 ft.</u> of <u>MUD</u>	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	
TOOL SAMPLE: <u>MUD</u>	

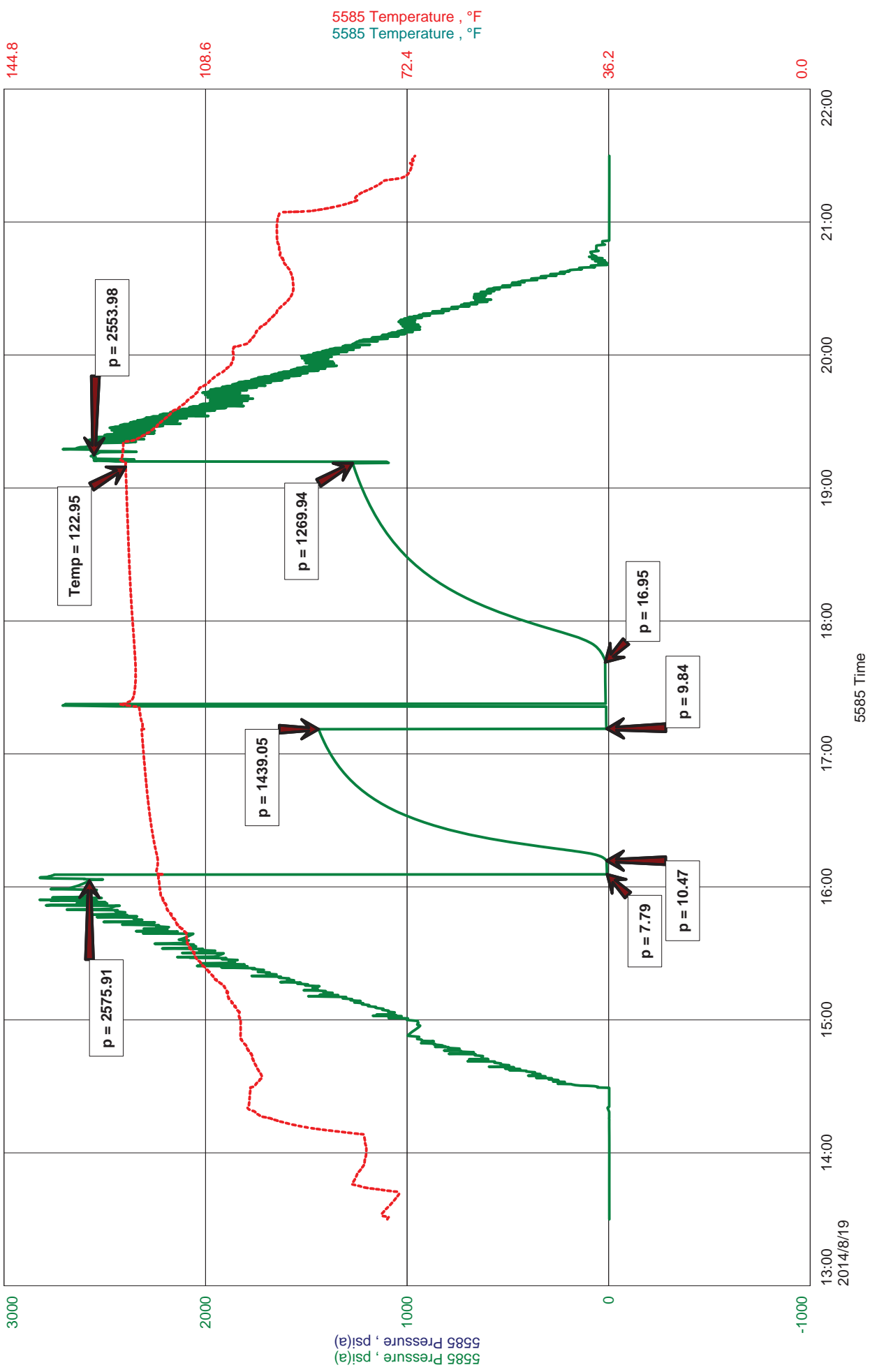
Time Set Packer(s) 4:53 AM A.M. P.M. Time Started Off Bottom 7:58 AM A.M. P.M. Maximum Temperature 121
 Initial Hydrostatic Pressure..... (A) 2438 P.S.I.
 Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 11 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 60 P.S.I.
 Final Flow Period..... Minutes 30 (E) 12 P.S.I. to (F) 22 P.S.I.
 Final Closed In Period..... Minutes 90 (G) 35 P.S.I.
 Final Hydrostatic Pressure..... (H) 2405 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

FALCON EXPLORATION INC
DST2 MISS."ST.LOUIS"5307-5355
Start Test Date: 2014/08/19
Final Test Date: 2014/08/19

N.JOSSERAND 1-8
Formation: DST2 MISS."ST.LOUIS"5307-5355
Pool: WILDCAT
Job Number: A079

N.JOSSERAND 1-8



DIAMOND TESTING, LLC

TESTER : ANDY CARREIRA
CELL # 620-617-7202

General Information

Company Name	FALCON EXPLORATION INC	Job Number	A079
Contact	CYNDE WOLF	Representative	ANDY CARREIRA
Well Name	N.JOSSERAND 1-8	Well Operator	FALCON EXPLORATION INC
Unique Well ID	DST2 MISS."ST.LOUIS"5307-5355	Report Date	2014/08/19
Surface Location	SEC 8-28S-30W GRAY CNTY. KS	Prepared By	ANDY CARREIRA
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST2 MISS."ST.LOUIS"5307-5355
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2014/08/19	Start Test Time	13:30:00
Final Test Date	2014/08/19	Final Test Time	21:30:00

Gauge Name	5585
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Test Results

RECOVERY: 5' MUD

TOOL SAMPLE: MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 13:30
TIME OFF: 21:30

DRILL-STEM TEST TICKET
FILE: N.JOSSERAND 1-8 DST2

Company FALCON EXPLORATION INC Lease & Well No. N.JOSSERAND 1-8
Contractor STERLING 2 Charge to FALCON EXPLORATION INC
Elevation 2832 KB Formation MISS."ST.LOUIS" Effective Pay _____ Ft. Ticket No. A079
Date 8-19-14 Sec. 8 Twp. _____ 28 S Range _____ 30 W County GRAY State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative ANDY CARREIRA

Formation Test No. 2 Interval Tested from 5307 ft. to 5355 ft. Total Depth 5355 ft.
Packer Depth 5302 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 5307 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5288 ft. Recorder Number 5585 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 5309 ft. Recorder Number 8471 Cap. 10000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 Drill Collar Length 216.34 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3000 P.P.M. Drill Pipe Length 5057.66 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 09 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 48 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, DIED IN 1 MIN. (NObb)
2nd Open: NO BLOW, FLUSHED, SURGED, NO BLOW (NObb)

Recovered 5 ft. of MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>MUD</u>	Total

Time Set Packer(s) 4:06 PM A.M. P.M. Time Started Off Bottom 7:11 PM A.M. P.M. Maximum Temperature 123

Initial Hydrostatic Pressure..... (A) 2576 P.S.I.
Initial Flow Period..... Minutes 5 (B) 8 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1439 P.S.I.
Final Flow Period..... Minutes 30 (E) 10 P.S.I. to (F) 17 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1270 P.S.I.
Final Hydrostatic Pressure..... (H) 2554 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.



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

Well Name: NANCY JOSSERAND # 1-8 (SW)
API: #15-069-20,477-00-00
Location: NW-SW-NE-SW 1/4 of SEC. 8 - 28 S. - 30 W.
License Number: KCC # 5316
Spud Date: 08/13/2014
Surface Coordinates: 1750' FSL & 1370' FWL

Region: GRAY CO., KS.
Drilling Completed: 8/21/2014

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2822' **K.B. Elevation (ft):** 2832'
Logged Interval (ft): 1000' **To:** 5576' **Total Depth (ft):** 5576'
Formation: MISSISSIPPIAN "SALEM (SPERGEN)
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL. & MUD DISPLACEMENT @ 3211'.
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Falcon Exploration, Inc. KCC KCC. # 5316
Address: 125 North Market Street, Ste. #1252
Wichita, Kansas 67202

GEOLOGIST

Name: David P. Williams, P.G.
Company: DW Energy, LLC (DWE)
Address: 312 North Broadview Street
Wichita, Kansas 67208

Casing & Deviation Surveys Taken

Surface Casing: Spud at 2:30 AM on 08/13/14. Drilled 12-1/4" to 1890'. Ran 44 joints of new 24#, 8-5/8" casing. Tallied 1867'. Set at 1884' KB. Welded straps on GS & bottom 3 joints, then tack welded all collars. Cemented with 460 sks A-Conn; 3% CC, 1/4# FS. Tailed with 150 sks Class A, 2% CC. Cement did circulate. Plug down at 11:00 AM on 03/19/14. Basic Energy Svcs Cementing ticket #9767. Centralozers (5) 1,3,6,32,38. Baskets (2) #3 & #24'. Cement fell 40' below GL. Filled annulus with 13 sks Premium Plus Cement.

Deviation Surveys: @ 890' = 3/4 degree; @ 5112' = 4 degrees (Miss-Run); @ 5165' = 1 degree; @ 5355' = 2 degrees; @ 5570' = 1 degree.

DSTs

~~DST # 1~~ Interval: 5102'-5165'. Times: 5"-60"-30"-90"; Blow: IF= Weak Surface Blow. No Blow Back. FF= No Blow (Flushed Tool @ 10" Good Surge & Died). No Blowback.

Recovery: 10' M (100% M).

Pressures: IH=2438#; FH=2405#; IF=8-11#; FF=12-22#; ISIP=60#; FSIP=35#; Temp= 121 degrees F..


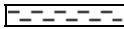

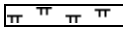

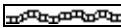




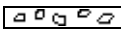







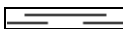

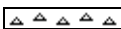


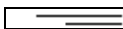

~~DST # 2~~ Interval: 5307'-5355'. Times: 5"-60"-30"-90"; Blow: IF= Weak Surface Blow. No Blow Back. FF= No Blow (Flushed Tool @ 10" Good Surge & Died). No Blowback.

Recovery: 5' M (100% M).

Pressures: IH=2576#; FH=2554#; IF=8-10#; FF=10-17#; ISIP=1439#; FSIP=1270#; Temp= 123 degrees F..
















Comments














ROCK TYPES

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



ACCESSORIES









MINERAL





	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	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

<input type="checkbox"/>	Ø
<input checked="" type="checkbox"/>	Vuggy

SORTING

	Well
	Moderate
	Poor

ROUNDING


	Rounded
	Subrnd
	Subang
	Angular

OIL SHOW

	Gas show
---	----------

	Even
	Spotted
	Ques
	Dead

INTERVAL

	Dst
	Dst_alt

EVENT

	Rft
	Sidewall

Curve Track 1

ROP (min/ft) ———
Gamma (API) - - - - -

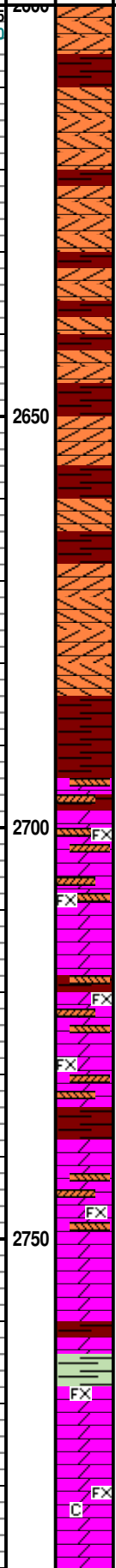
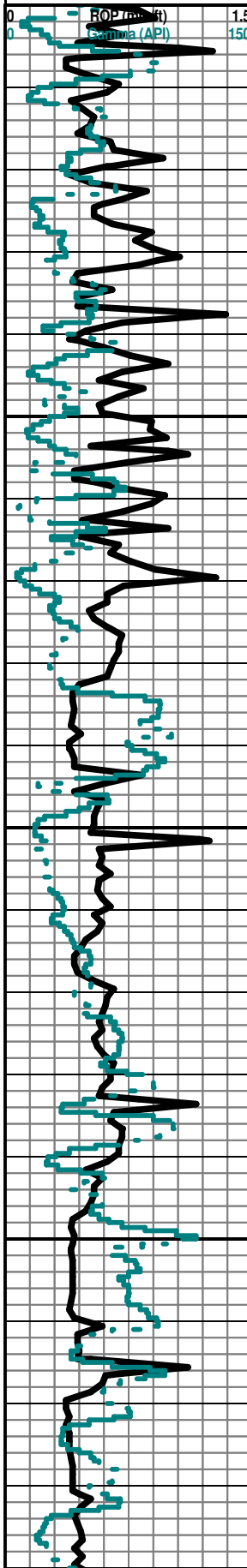
Depth (ft)

Oil Shows

Geological Descriptions

TG, C1-C5

TG (Units) ———
C1 (units) - - - - -
C2 (units) - - - - -
C3 (units) - - - - -
C4 (units) - - - - -



FALCON EXPLORATION, INC.
NANCY JOSSERAND # 1-8 (SW)
NW-SW-NE-SW 1/4
1750' FSL & 1370' FWL
SEC. 8 - 28 S. - 30 W.
GRAY COUNTY, KANSAS
A.P.I. #15-069-20,477-00-00
ELEVATION : 2832' K.B. ; 2822' G.L
CONTRACTOR: STERLING DRILLING RIG # 2
GEOLOGIST: DAVID P. WILLIAMS, P.G

Geologist On Location @ 2785' @ 4:45 PM 08-15-2014
Stone Coral Anhydrite Sample Top = 1848' (+984)
Stone Coral Anhydrite Sample Base = 1863' (+969)

Deviation Surveys Taken: @ 890' = 3/4 degree; @ 5112' = 4 degrees (Miss-Run); @ 5165' = 1 degree; @ 5355' = 2 degrees; @ 5570' = 1 degree.

Note: All Samples Have Been Lagged To Depth By Calculated Time.

Kelly Down Sample Examination Starts @ 2770'

CHASE GROUP 2694' (+ 138)

Sh Red-Char V Abd Dolo/ Ls Csm FxIn Micrite Anhy/Gyp AA No Odor No Stn No Flor NS

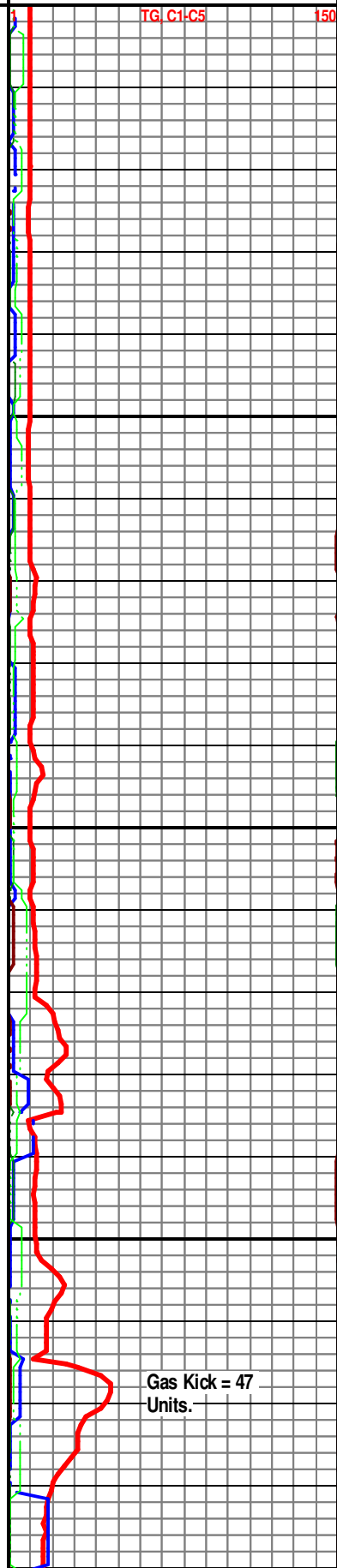
HERRINGTON 2720' (+112)

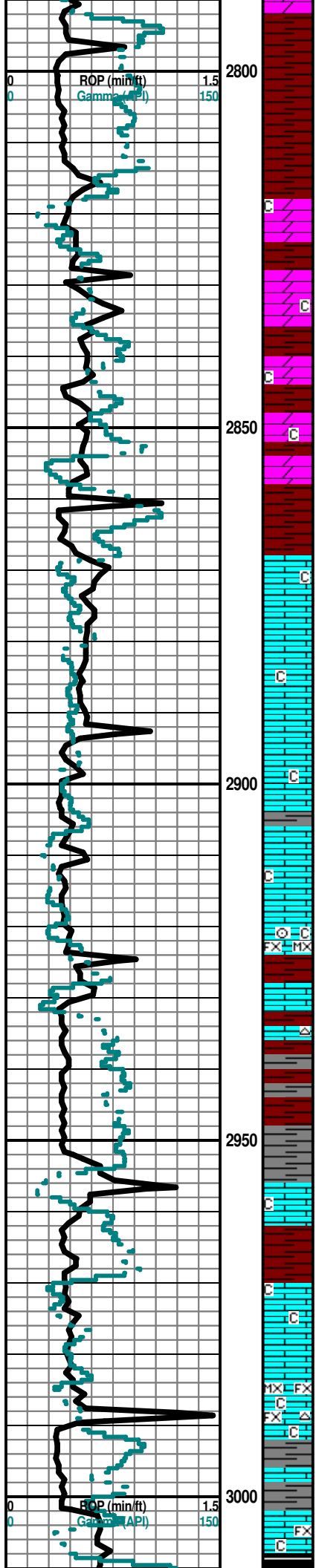
KRIDER 2728' (+ 104)

Sh Red-Char V Abd Dolo/ Ls Csm FxIn Micrite Anhy/Gyp AA No Odor No Stn No Flor NS

WINFIELD 2762' (+ 70)

Sh Gry-Red Soft (Wash Red V Abd) Dolo/Ls Csm-Gry Poor IxIn Por Dns Micrite Chalky No Odor No Stn No Flor NS





TOWANDA 2818' (+ 14)

Sh Gry-Red Soft (Wash Red) Dolo/Ls Crm-Gry Poor IxIn Por Dns Micrite
Chalky No Odor No Stn No Flor NS

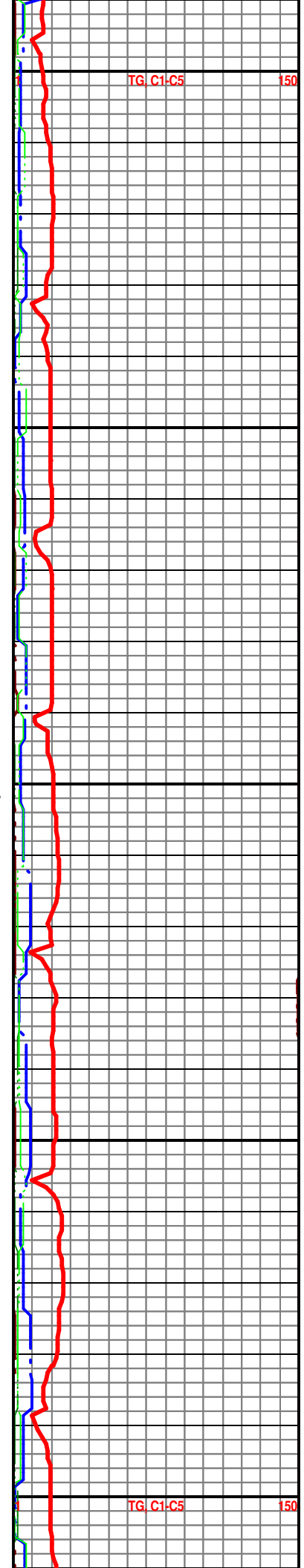
Sh Gry-Red Soft (Wash Red Abd) Ls Crm-Gry Poor IxIn Por Dns Micrite
Chalky No Odor No Stn No Flor NS

FORT RILEY 2869' (- 37)

Ls Crm-Gry Poor IxIn Por Dns Micrite Chalky Sh Gry-Red Soft AA No Odor
No Stn No Flor NS

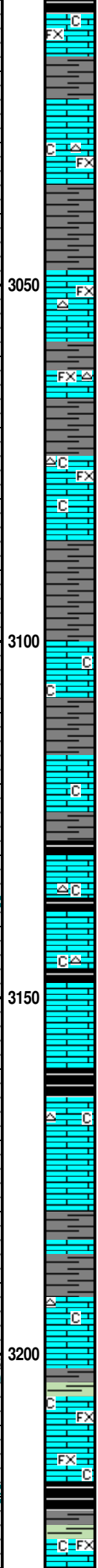
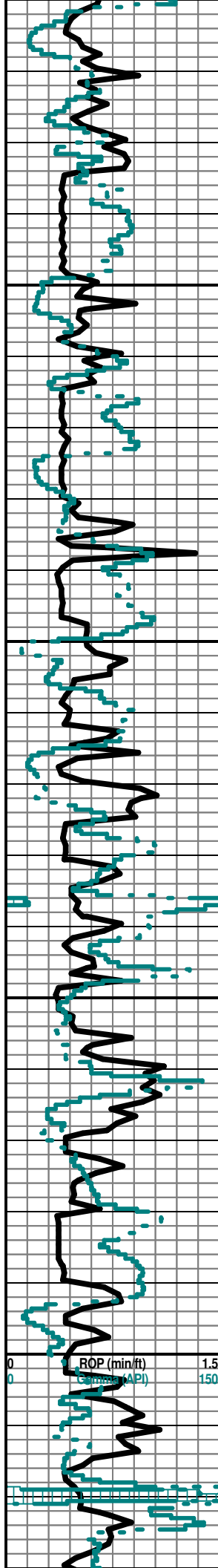
Ls Crm-Gry FxIn-MicroIxIn Poor-Fair IxIn Por Tr Gran Grad Poor Dns Micrite
Cht Gry (w/Brn Includ) Fos (Crin) Chalky Sh Gry-Red Soft No Odor No Stn
No Flor NS

Ls Crm-Gry FxIn-MicroIxIn Poor-Fair IxIn Por Tr Gran Grad Poor Dns Micrite
Cht Wht Op Shp Vit Chalky Abd Sh Gry-Red Soft No Odor No Stn No Flor
NS



TG C1-C5 150

TG C1-C5 150



Ls Crm-Wht Fxln Poor Ixln Por Dns Micrite Cht Wht Op Shp Vit Chalky Sh
Gry-Red Soft No Odor No Stn No Flor NS

3050

Ls Crm-Wht Fxln Poor Ixln Por Dns Micrite Cht Wht Op Shp Vit Chalky Sh
Gry-Red Soft No Odor No Stn No Flor NS

3100

Ls Crm-Wht-Gry Fxln Poor Ixln Por Dns Micrite Chalky Sh Gry- Red-Maroon
Soft No Odor No Stn No Flor NS

COTTONWOOD 3131' (-299)

Ls Crm-Wht-Gry Fxln Poor Ixln Por Dns Micrite Cht Gry Op Shp Vit Chalky
Sh Gry-Red-Maroon Soft No Odor No Stn No Flor NS

3150

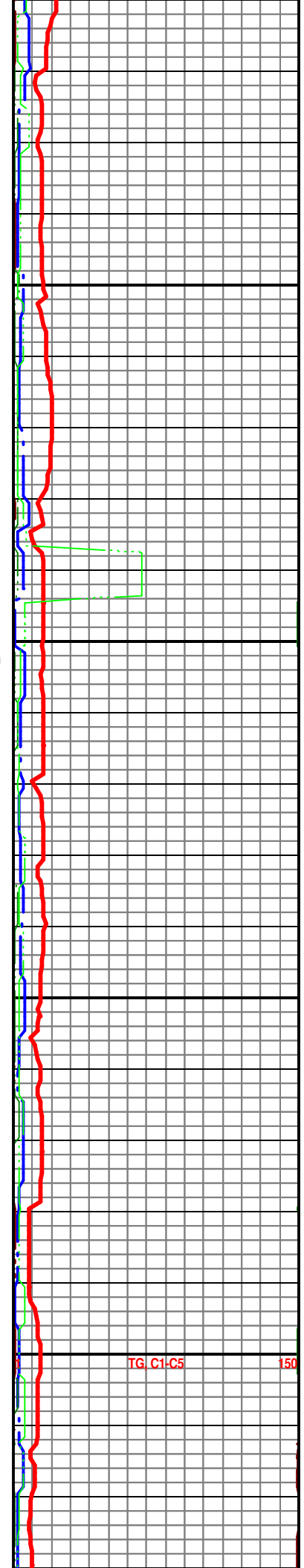
Ls Crm-Wht-Gry Fxln Poor Ixln Por Dns Micrite Cht Gry Op Shp Vit Chalky
Sh Gry-Red-Maroon Soft (Wash Red) No Odor No Stn No Flor NS

NEVA 3192' (- 360)

3200

MUD DISPLACEMENT @ 3211'

Ls Wht-Crm-Gry Fxln Poor Pin-Pt Ixln Por Chalky Sh Red-Maroon -Gry
Soft-Fissil No Odor No Flor No Stn NS



3250

3300

3350

3400

3450



Ls Wht-Crm-Gry Fxln Poor Pin-Pt Ixln Por Chalky Sh Red-Maroon -Gry
Soft-Fissil No Odor No Flor No Stn NS

FORAKER 3291' (- 459)

Ls Wht-Crm-Gry Fxln Poor Pin-Pt Ixln Por Cht Wht Chalky Sh Red-
Maroon-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor Ixln Por Dns Micrite Cht Wht Transp-Op Shp Vit
Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft-Fissil No Odor No Stn No Flor
NS

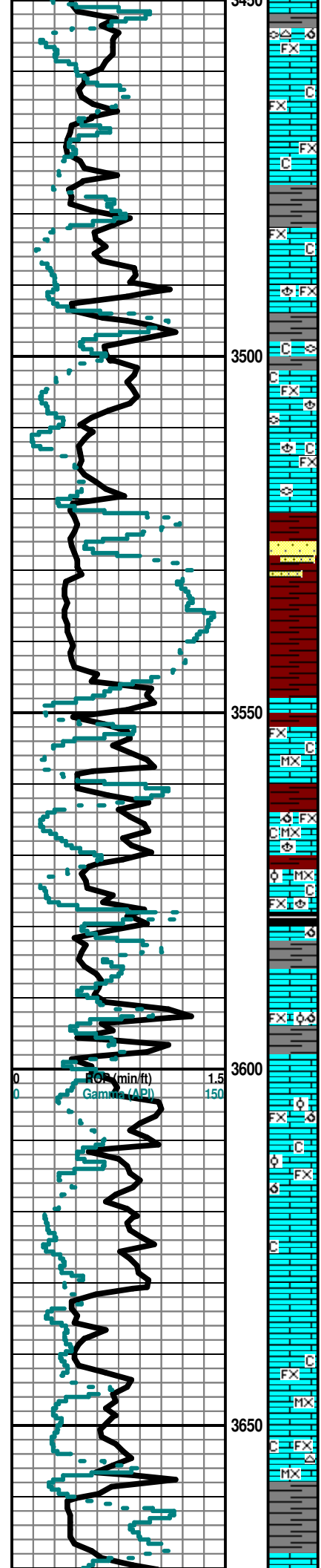
Ls Wht-Crm-Gry Fxln Poor Ixln Por Dns Micrite Cht Wht-Clear Transp- Op
Shp Vit Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft-Fissil No Odor No Stn
No Flor NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Dns Micrite Cht Wht-Clear Transp-Op
Shp Vit Chalk Sh Char-Gry-Red-Maroon-Lt Grn Soft-Fissil No Odor No Stn
No Flor NS

FALL CITY 3425' (- 593)

RQIP (min/ft) 1.5
Gamma (API) 150

TG C1-C5 150



Ls Wht-Crm-Gry FxIn Grad Pin-Pt Por Fair-Med IxIn Por Grad Poor OOM Por
 Poor Dissolu Poor Leaching Cht Gry Op Shp Vit Fos (Fuss) Chalky Sh
 Char-Gry Fissil No Odor No Stn No Flor NS

LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por Barren Sh Grn- Red Soft
 Fissil Fos (Brach, Fuss) Chalk No Odor No Flor No Stn Fair ? Min Flor (Lt
 Grn) NS

ROOT SHALE 3522' (- 690)

Sh Grn-Red Soft Fissil LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por
 Barren Fos (Brach, Fuss) Chalk No Odor No Flor No Stn No Flor NS

STOTLER 3548' (- 716)

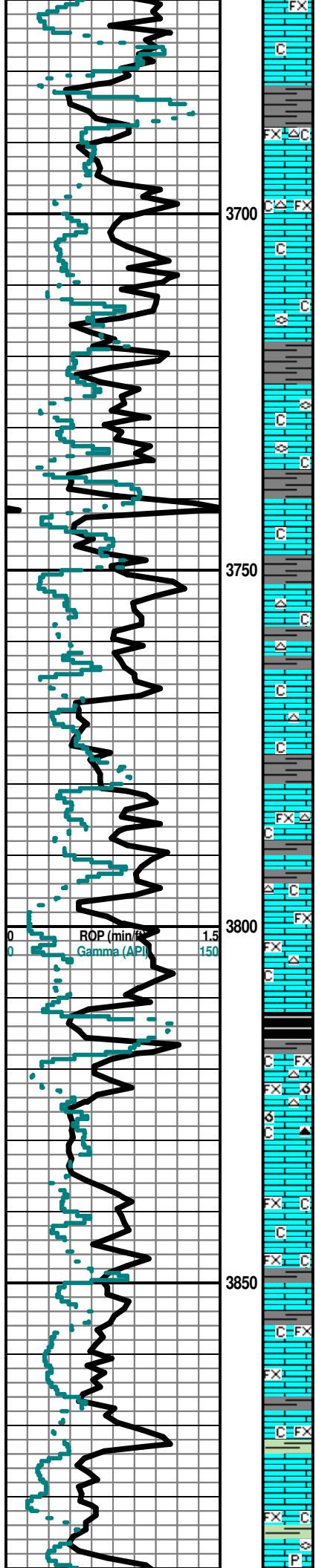
LS Wht-Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Grad Tr/Fair
 OOM Por w/OOL (Small) in pl Fair InterOOM/OOL Por Fair Leaching Fair
 Disolu Sh Grn-Red Soft Fos (Brach) Chalk No Odor No Flor No Stn NS

TARKIO 3598' (- 766)

Ls Wht-Crm-Grn/Crm FxIn Poor IxIn Por Grad Dns Micrite Sh Grn- Red-Char
 Soft Fissil Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Gry-Crm-Wht MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Cht Gry
 Op-Shp-Vit Sh Gry-Char-Brn Soft No Odor No Flor No Stn NS

TG C1-C5 150



BERN 3688' (- 856)

Ls Crm-Gry-Wht Fxln Tr/Poor lxln Por Micritic Dns Barren Chalk
 Cht-Wht-Tan Op Shp Vit Sh Gry-Char No Odor No Flor No Stn NS

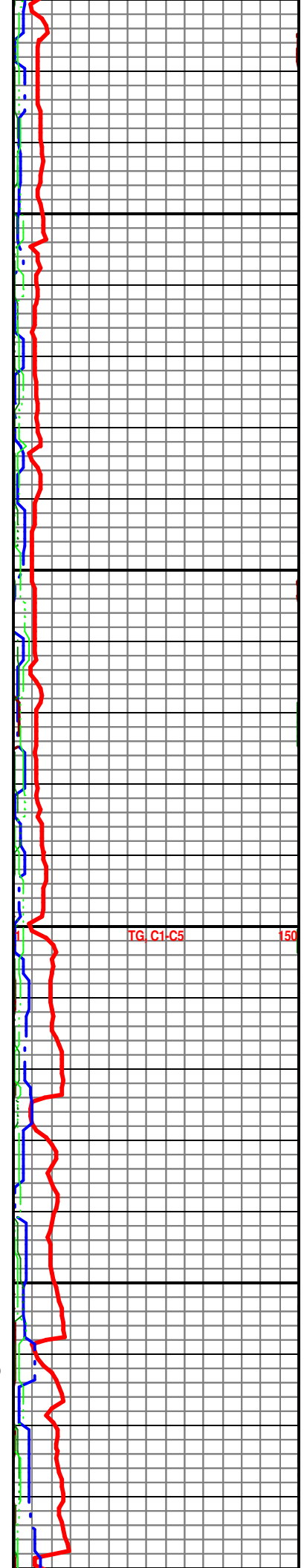
Ls Wht-Crm Fxln Tr/Poor lxln Por Micritic Dsn Barren Chalk Wht Fos (Fuss)
 Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor lxln Por Micritic Dsn Barren Chalk Cht Wht Op
 Shp Vit Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

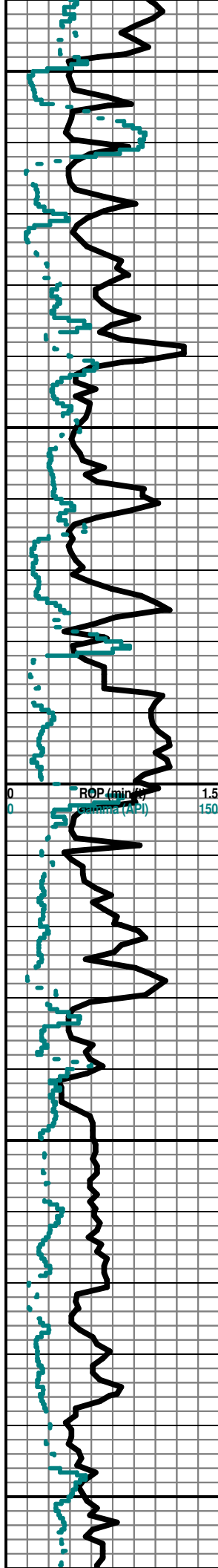
TOPEKA 3818' (- 986)

Ls Wht-Crm Fxln Poor lxln Por Micritic Dsn Barren Grad Poor Pin-Pt OOM
 Por Barren Chalk Cht Wht=Drk Gry Op Shp Vit Sh Blk Carb-Char-Grn Fissil
 Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor lxln Por Micritic Dsn Barren Chalk Sh Char Fissil No
 Odor No Flor No Stn NS



3900
3950
4000
4050
4100



Ls Wht-Crm FxIn Poor IxIn Por Micritic (w/Pyr Inklus)Chalk Cht Drk-Gry
Transl-Op Shp Vit Fos (Fuss) Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

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

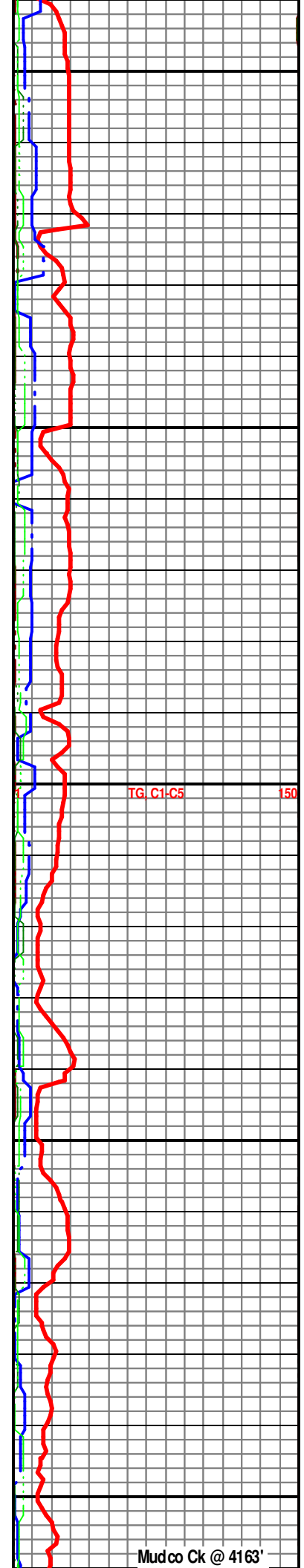
Ls Wht-Crm FxIn Poor IxIn Por Micritic Dsn Barren Chalk Cht Tan- Drk Gry
Transl-Op Shp Vit Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

Sh Char-Drk Gry Carb- Soft-Fissil Ls Wht-Crm-Gry FxIn Dns Micrite Grad
Poor Pin-Pt IxIn Por Chalk Fos (Fuss) No Odor No Flor No Stn NS

LeCOMPTON 4034' (- 1202)

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor Pin-Pt IxIn & OOM Por Chalk
Fos (Fuss) Sh Gry-Char Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Cht Wht- Gry - Drk
Blk Op Shp Vit Chalk Fos (Fuss) Sh Blk Carb-Gry-Char Soft-Fissil No Odor
No Flor No Stn NS



TG C1-C5 150

Vis= 53;
WT= 9.25;
PV= 15;
YP= 17;
WL= 12.4;
Cake= 1;
Chl= 3400;
Cal = 20;
Sol= 6.3%
LCM= 1#;
DMC=\$5,827.45;
CMC=\$9,961.05.

PLATTSMOUTH 4132' (- 1300)

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

HEEBNER 4162 (- 1330)

Sh Blk Carb (w/SSG)-Gry-Char-Lt Grn Soft-Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad Poor Pin-Pt Ixln Por Chalk No Odor No Flor No Stn GSG in Blk Sh

TORONTO 4184' (- 1352)

DOUGLAS 4198' (- 1366)

Sh Blk Carb--Drab Grn-Aqua-Gry Soft-Fissil Ls Wht-Crm Fxln Dns Micrite Poor Ixln Por Chalk Cht Wht Transl-Op Shp Vit Sh Blk Carb- Char-Grn Fissil No Odor No Stn No Flor NS

Sh Char-Gry Fissil Ls Crm-Gry Fxln Dns Micrite Poor Ixln Por Chalk Cht Wht Transl-Op Shp Vit No Odor No Stn No Flor NS

IATAN (BROWN LIME) 4254' (- 1422)

LANSING 4262' (- 1430)

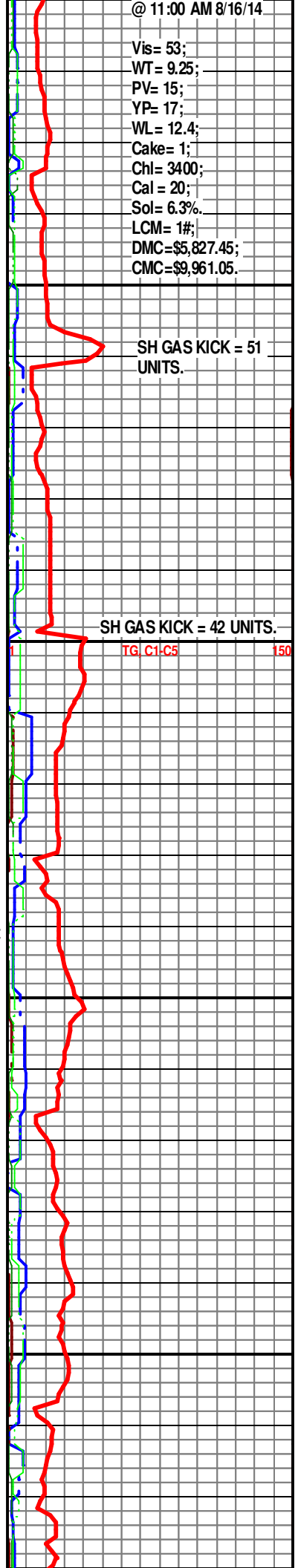
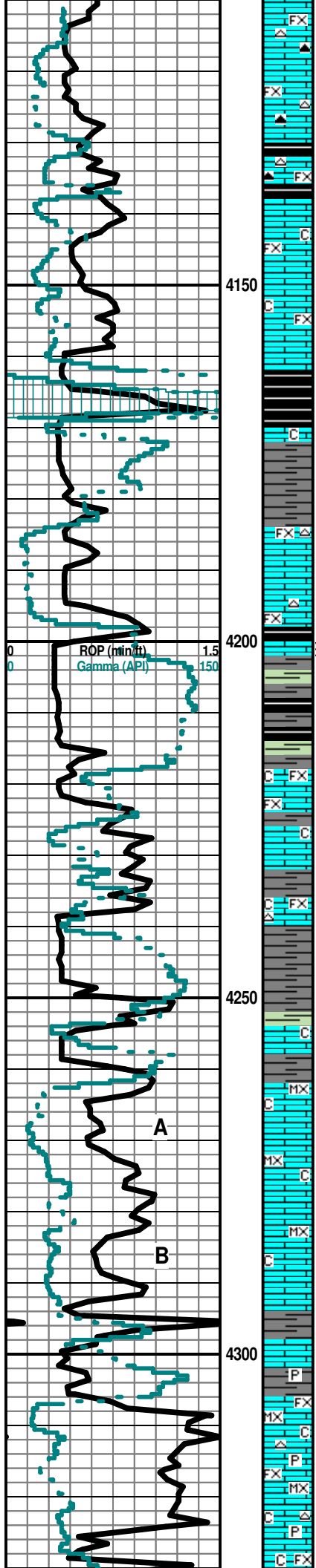
Ls Crm-Gry Microxln-Fxln Poor Ixln Pin-Pt Ixln Por Grad Micritic Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor NS

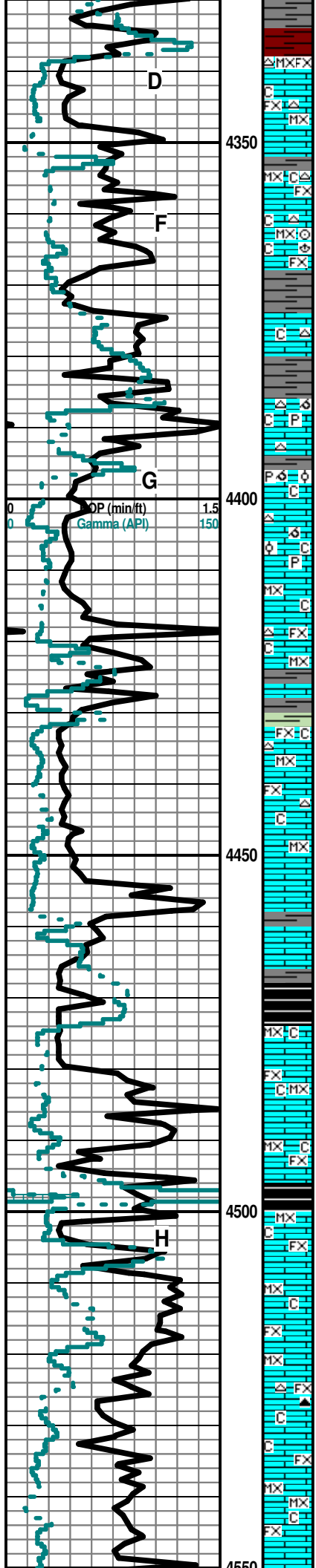
Sh Char-Gry (w/Pyr Inklus) Fissil Ls Crm-Gry Microxln-Fxln Poor Ixln Por Grad Micritic Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS

SH GAS KICK = 51 UNITS.

SH GAS KICK = 42 UNITS.

TG C1-C5 150





Ls Wht-Crm-Gry MicroIn-FxIn Poor IxIn Por Micritic Cht Wht-Gry Banded Op Shp Vit Chalk Fos (Brach, Crin) Sh Blk Carb-Char-Gry Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm-Tan OOM Por w/OOL (Small-Med Ooids) Poor Inter-OOM/OOL Por Poor Develop Poor Leaching (w/Pyr Includ) Cht Wht Op Shp Vit Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Gry-Crm MicroIn-FxIn Poor IxIn Por Micrite Grad Poor-Fair OOM Por (w/Small OOids in pl) Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn Tr ? Min Flor NS

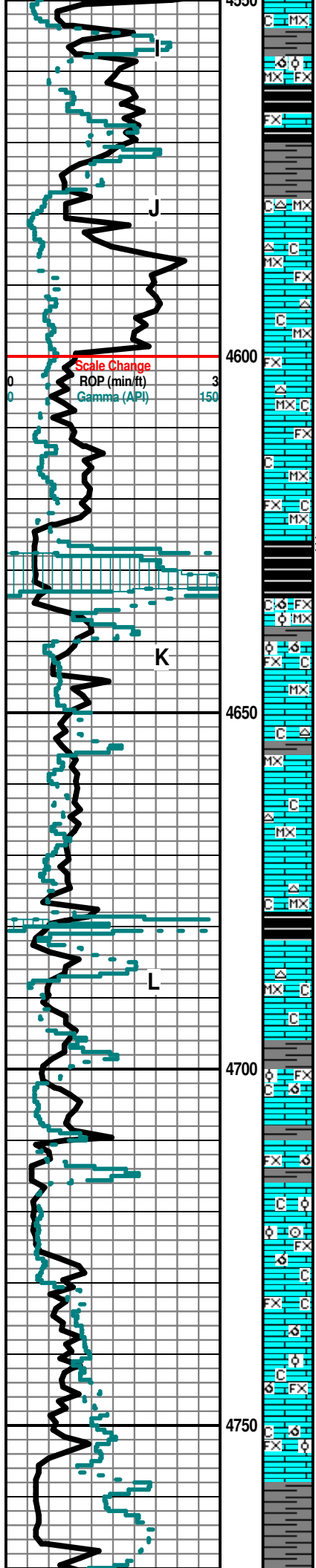
MUNCIE CREEK 4464' (- 1632)

Ls Tan-Crm MicroIn-FxIn Good Vug OOM Por Grad Micrite Baren Poor IxIn Por Chalk Sh Char-Gry Fissil No Odor No Stn Tr ? Min Flor NS

Ls Gry-Crm MicroIn-FxIn Poor IxIn Por Grad Micritic Cht Gry-Drk Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn Tr ? Min Flor NS

TG C1-C5

150



Chalk Wht Abd Ls Crm-Gry Microxln-Fxln Dns Micrite Poor Ixln Por Grad
 Poor OOM Por Poor InterOOM Poor Leaching Poor Develop Cht Lt Gry Op
 Shp Vit Sh Char-Gry Fissil No Odor No Stn Tr ? Min Flor NS

Ls Crm-Gry Microxln-Fxln Dns Micrite Cht Lt Gry Op Shp Vit Chalk Sh
 Char-Gry Fissil No Odor No Stn Tr ? Min Flor NS

STARK SHALE 4627' (-1795)

KANSAS CITY "SWOPE" (K) 4632' (-1800)

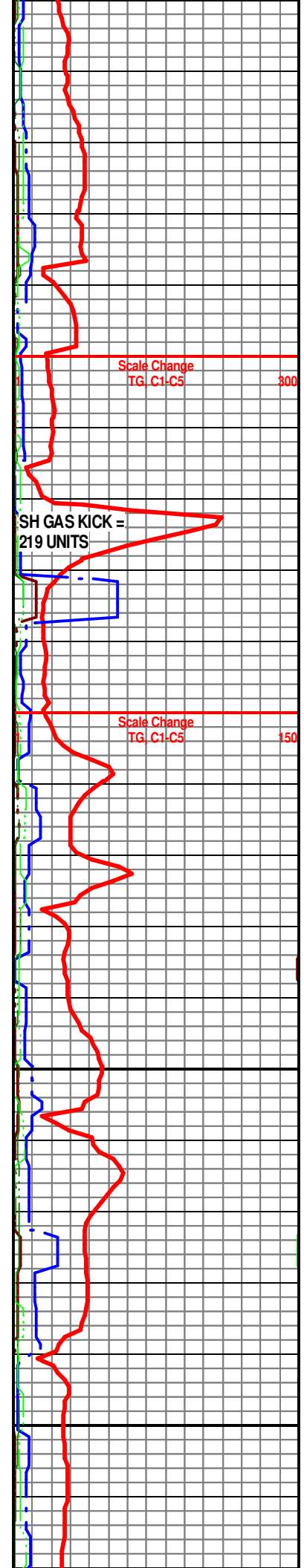
Ls Crm-Tan Microxln-Fxln Dns Micrite Grad (Tr 1 Pc) Good Vug OOM Por
 Med-Good OOM Por (Poor InterOOM Por) Good Leaching Good Develop
 Chalk Dec Sh Char-Gry (Tr Only) Fissil No Odor No Stn Tr ? Min Flor NS

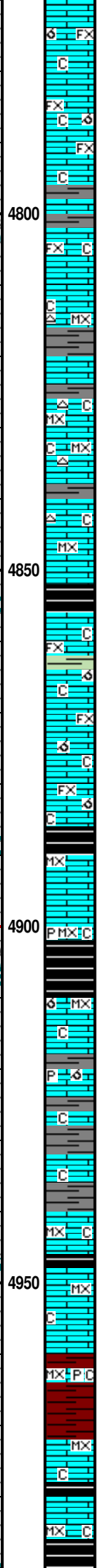
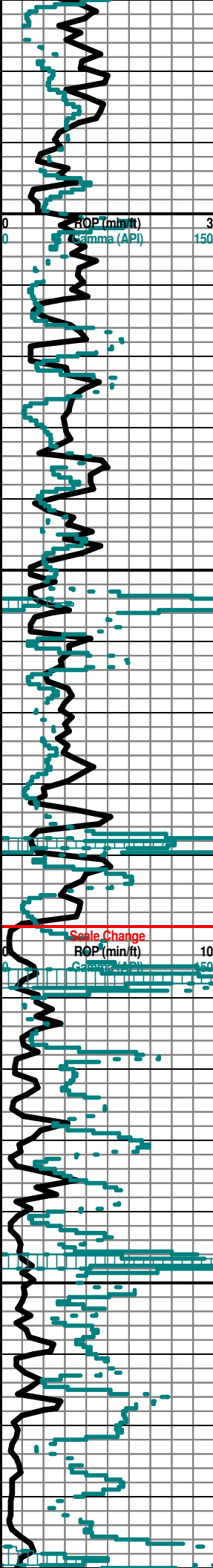
HUSHPUCKNEY 4678' (-1846)

Ls Crm-Gry Microxln Dns Micrite Cht Wht Gry Op Shp Vit Chalk Sh
 Char-Gry-Aqua Fissil No Odor No Stn Tr ? Min Flor NS

Ls Wht-Tan-Crm-Gry Fxln Dns Micritic Grad Good OOM Por (w/Lg Vug
 Leaching w/Med-Lg OOids in pl) Good Dissolu Fos (Crin) Sh
 Char-Gry-Maroon Fissil No Odor No Flor No Stn NS

MARMATON 4770' (-1938)





Sh Char-Gry Fissil Ls Wht-Tan-Crm-Gry FxIn Dns Micritic Grad Good OOM Por (w/Lg Vug Leaching w/Med-Lg OOids in pl) Good Dissolu Chalk No Odor No Flor No Stn NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Micritic Dns Barren Chalk Inc Sh Gry/Grn Fissil No Odor No Flor No Stn NS

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

Ls Wht-Crm FxIn Poor IxIn Por Micritic Dns Barren Grad Poor Pin-Pt IxIn Por Grad Poor OOM Por No-Poor Leaching Chalk Abd Cht Lt Gry Op Shp Vit Sh Blk Carb Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb-Aqua Fissil Ls Crm-Wht-Tan (w/Pyr Includ) MicroxIn Dns Micrite Grad Fair-Med OOM Por Good InterOOM Por Barren Chalk No Odor No Stn No Flor NS

Sh Maroon-Red-Char (w/Pyr Includ)-Gry-Blk Carb-Aqua Fissil Ls Crm-Wht-Tan MicroxIn Dns Micrite Barren Chalk No Odor No Stn No Flor NS

TG C1-C5 150

SH GAS KICK = 92 UNITS

PAWNEE 4856' (- 2024)

? Sh Gas Kick = 66 Units

LABETTE 4886' (- 2054)
FORT SCOTT 4890' (- 2058)

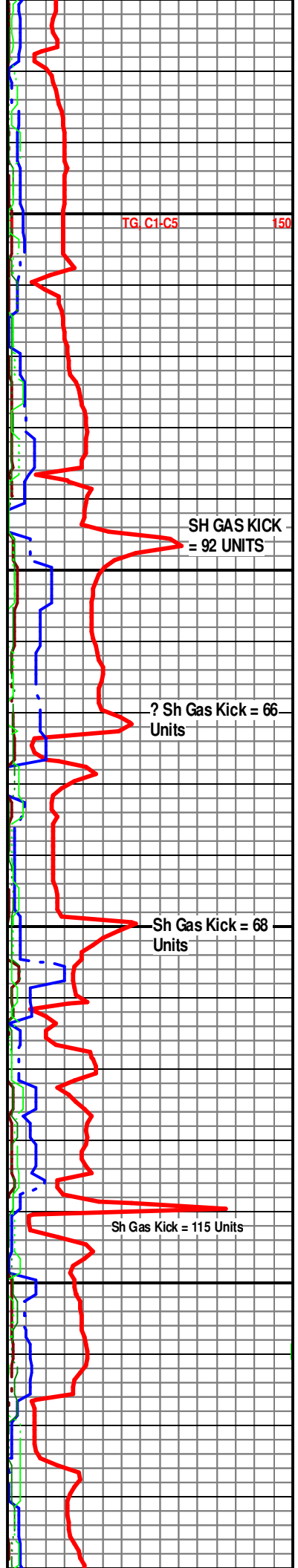
CHEROKEE 4902' (- 2070)

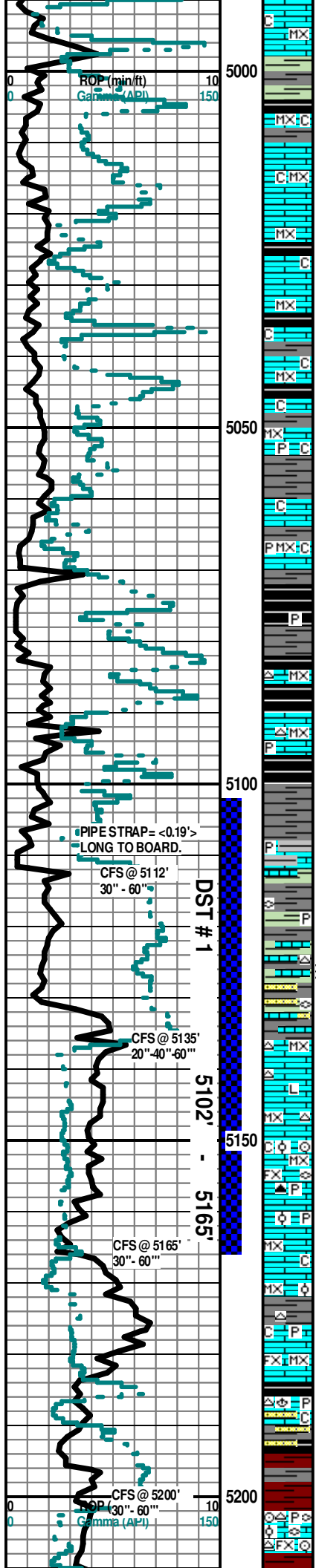
Sh Gas Kick = 68 Units

SECOND CHEROKEE SHALE 4946' (- 2114)

Sh Gas Kick = 115 Units

THIRD CHEROKEE SHALE 4986' (- 2154)





Sh Char (w/Pyr Includ)-Gry-Blk Carb-Aqua-Maroon-Red Fissil Ls
Crm-Wht-Tan Microxln Dns Micrite Barren Chalk No Odor No Stn No Flor NS

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

ATOKA 5070' (- 2238)

30" CFS @ 5112' Sh Char-Gry-Blk Carb (w/Pyr Includ)-Aqua Fissil Ls
Tan-Crm-Wht-Brn Microxln Dns Micrite Cht Tan Translu Shp Vit Chalk No
Odor No Stn No Flor NS

10' SAMPLE EXAMINATION BEGIN AT 5112'

MORROW SHALE 5096' (- 2264)

60" CFS @ 5112' Sh Char-Gry-Blk Carb (w/Pyr Includ)-Aqua Fissil Ls
Tan-Crm-Wht-Brn Microxln Dns Micrite Cht Tan Translu Shp Vit No Odor No
Stn No Flor NS

20" CFS @ 5135' Sh Char Carb-Gry Carb-Blk Carb)-Aqua Fissil V Abd Ls
Tan-Crm-Wht-Brn Microxln Dns Micrite Fos (Fuss) Pyr Mass No Odor No Stn
No Flor NS

40" CFS @ 5135' Sh Char Carb-Gry Carb-Blk Carb)-Aqua Fissil V Abd Ls Tan-Crm-Wht-Brn
Microxln Dns Micrite Cht Tan Translu Shp Vit Qtz Ss Wht FGrn Poor Sort (? SG & SSFO (1
Droplet w/Broken-1 Pc)) No Odor No Stn No Flor ? SG & SSFO

60" CFS @ 5135' Sh Char Carb-Gry Carb-Blk Carb)-Aqua Fissil V Abd Ls Tan-Crm-Wht-Brn
Microxln Dns Micrite Cht Tan Translu Shp Vit No Odor No Flor No Stn NS

Sh Char Carb-Gry Carb-Blk Carb)-Aqua-Blue Fissil V Abd Ls Tan-
Crm-Wht-Brn Microxln Dns Micrite Cht Tan Translu Shp Vit No Odor No Flor
No Stn NS

30" CFS @ 5165' Ls Wht-Crm-Tan Microxln-Fxl'n Dns Micrite (w/Pyr Includ) Grad Poor
Ixln/Igran "Sandy OOL Por (w/V Small-Med Pelletal OOids in pl)" Cht Wht-Drk Gy Op Shp Vit
Chalk Fos (Crin, Fuss) Pyr Mass Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

60" CFS @ 5165' Ls Wht-Crm-Tan-Gry Microxln-Fxl'n Dns Mostly Micrite (w/Pyr Includ) Poor
Igran "Sandy OOL Por (w/V Small OOids in pl) Dec" Cht Gry Op Shp Vit Chalk Pyr Mass Sh
Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan Microxln-Fxl'n Dns Micrite Grad Poor Ixln (w/Poor-Fair Pelletal OOids & Fos
(Crin, Fuss) Includ in pl)" Cht Wht-Gry Op Shp Vit Chalk Pyr Mass Sh Char-Gry Soft-Fissil No
Odor No Flor No Stn NS

Ls Crm-Gry-Tan-Wht Microxln-Fxl'n Dns Mostly Micrite Grad Poor Ixln Por Cht Gry Op Shp Vit
Chalk Pyr Mass Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

30" CFS @ 5200' Ls Crm-Tan-Wht-Aqua Microxln-Fxl'n Dns Mostly Micrite Grad Poor-Fair Ixln
Por Cht Wht Op Shp Vit Qtz Ss Aqua/Grn VFGrn Well-Sort Fos (Brach) Chalk Pyr Mass Sh Blk
Carb-Char-Gry Soft-Fissil No Odor No Flor No Stn NS

60" CFS @ 5200' Ls Crm-Tan-Wht-Aqua Microxln-Fxl'n Dns Mostly Micrite Grad Poor-Fair Ixln
Por Cht Wht Op Shp Vit Qtz Ss Aqua/Grn VFGrn Well-Sort Fos (Crin, Fuss) Chalk Pyr Mass Sh
Blk Carb-Char-Gry-Maroon Soft-Fissil No Odor No Flor No Stn NS

30" CFS @ 5220' Sh Varicolored Red-Maroon-Blk Carb-Char-Aqua (Wash Red) Fissil Ls
Wht-Crm Microxln Dns Micrite Grad Poor Pin-Pt Ixln & Igran & InterOOL Por (w/V Small OOids
& Fos Includ) Barren Cht Tan-Gry Translu Op Shp Vit Pry Mass No Odor No Stn No Flor NS

60" CFS @ 5220' Sh Varicolored Red-Maroon-Blk Carb-Char-Aqua (Wash Red) Fissil Ls
Wht-Crm Microxln Dns Micrite Grad Poor Pin-Pt Ixln & Igran & InterOOL Por (w/V Small OOids
& Fos Includ) Barren Cht Tan-Gry Translu Op Shp Vit Pry Mass No Odor No Stn No Flor NS

TG C1.C5 150

Sh Gas Kick = 43 Units

Mudco Ck @ 5112'
@ 11:50 AM 8/17/14

Vis= 48;
WT= 9.1;
PV= 14;
YP= 15;
WL= 9.2;
Cake= 1;
Chl= 1900;
Cal= 20;
Sol= 5.6%
LCM= 2#;
DMC=\$3,318.35;
CMC=\$13,279.40.

Mudco Ck @ 5165'
@ 12:25 M 8/18/14

Vis= 57;
WT= 9.1;
PV= 17;
YP= 19;
WL= 9.2;
Cake= 1;
Chl= 3,000;
Cal= 20;
Sol= 5.6%
LCM= 2#;
DMC=\$ 849.60;
CMC=\$14,129.00.

@ 5112' TOH To Replace PDC
With Button Bit.

~DST # 1~

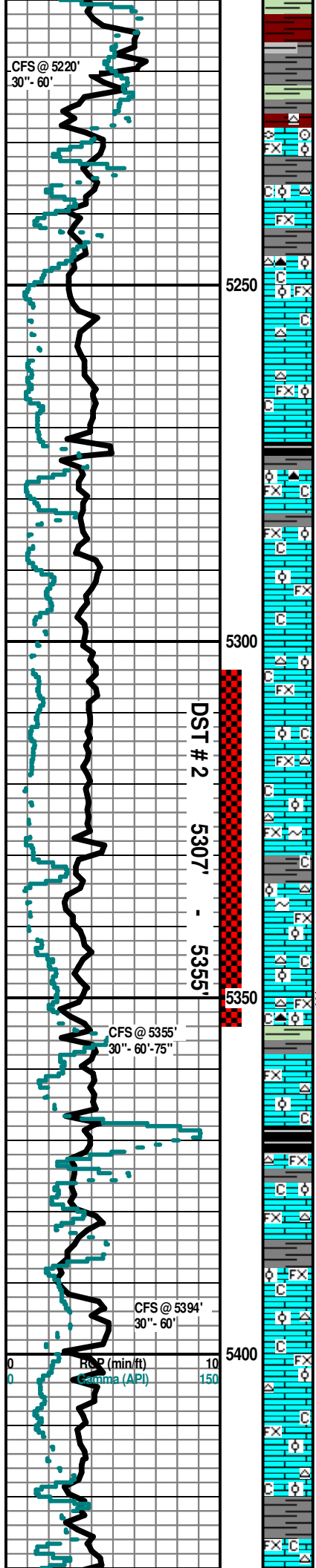
Interval: 5102'-5165'.
Times: 5"-60"-30"-90";
Blow: IF= Weak
Surface Blow. No
Blow Back. FF= No
Blow (Flushed Tool @
10" Good Surge &
Died). No Blowback.
Recovery: 10' M
(100% M).

Pressures:
IH = 2438#;
FH = 2405#;
IF = 8-11#;
FF = 12-22#;
ISIP = 60#;
FSIP = 35#;
Temp= 121
degrees F..

SH GAS KICK = 51 UNITS.

SH GAS KICK =
60 UNITS.

Scale Change
TG C1.C5 75



Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Ls CrmTan-Gry FxIn Dns Micrite Cht Wht-Gry (w/Fos (Crin & OOL (Tr Drk Gry-Blk Gillsontic Includ) Chalky Sh Varicolored Soft Fissil No Odor No Stn No Flor NS

MISSISSIPPIAN "STE. GEN" 5228' (- 2396)

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry FxIn Dns Micrite Cht Gry Op Shp Vit Chalky Sh AA Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Ls Crm-Gry FxIn Dns Micrite Cht Peach-Org Op Shp Vit Chalky Sh AA-Red-Maroon Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Ls Crm-Gry FxIn Dns Micrite Chalky Cht Wht-Peach Op Shp Vit Sh AA Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry FxIn Dns Micrite Cht Lt-DrkTan Op Shp Vit Chalky Sh AA Fissil No Odor No Stn No Flor NS

MISS. ST. LOUIS 5326' (- 2494)

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry Dns Micrite Cht Red-Org Speck Op Shp Vit Chalky Sh Varicolored-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry Dns Micrite Chalky Sh AA-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry Dns Micrite Chalky Sh AA Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry Dns Micrite Cht Tan Op Shp Vit Chalky Sh AA-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry Dns Micrite Cht Gry Op Shp Vit Chalky Sh AA Fissil No Odor No Stn No Flor NS

Ls Wht FxIn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren Grad Gry Dns Micrite Cht Gry Op Shp Vit Chalky Sh AA Fissil No Odor No Stn No Flor NS

MISS. "ST. LOUIS LOWER B Ø' 5334' (- 2502)

Ls Wht Fair-Med OOL Por (w/Small-Med OOids in pl) Friable Fair InterOOL Por (w/Tr Drk Brn-Blk Stn on Edges of InterOOL Por) VSSG & VSSO (w/VSSFO When Broken in Wtr Under Heat) Tr Glacu Includ Cht Wht-Peach Op Shp Vit Chalky V Abd Poor-Fair Odor No Flor SSG & SSO

Ls Wht Med OOL Por (w/Med OOids in pl) Friable Fair-Med InterOOL Por (w/Tr Drk Brn-Blk Stn in Pin-Pt InterOOL Por) SSG & SSO (w/SSFO When Broken in Wtr Under Heat) Tr Glacu Includ Cht Wht-Peach Op Shp Vit Chalky V Abd Fair Odor No Flor SSG & SSO

30" CFS @ 5355' Ls Wht-Crm FxIn Poor OOL Por AA (w/Dec VSSG & VSSO AA) Grad Dns Micrite Cht Wht-Peach-Gry (w/ Blk Includ) Abd Translu-Op Shp Vit Chalk Dec ? Faint Odor No Flor Sli ? Tr SG & SO AA Mostly NS

60" & 75" CFS @ 5355' Ls Wht-Crm FxIn Poor OOL Por AA (w/1 Pc w/Good Lg OOids & FSG & FSFO When Broken in Wtr Under Heat) Grad Dns Micrite Cht Wht-Peach-Org Gry (w/ Blk Includ) Translu-Op Shp Vit Chalk No Odor No Flor Sli ? SG & SO

Ls Wht-Crm FxIn Poor OOL Por (w/Small-Med-Lg OOids in pl) Grad Dns Micrite Cht Wht-Gry (w/Blk Includ) Translu-Op Shp Vit Chalk No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Poor OOL Por (w/Small-Med-Lg OOids in pl) Grad Dns Micrite Cht Wht-Gry (w/Blk Includ) Translu-Op Shp Vit Chalk No Odor No Flor No Stn NS

30" CFS @ 5394' Ls Wht-Crm FxIn Poor OOL Por (w/Small-Med OOids) Grad Dns Micrite Cht Wht-Gry (w/ Blk Includ) Abd Translu-Op Shp Vit Chalk No Odor No Flor No Stn NS

60" CFS @ 5394' Ls Wht-Crm FxIn Med OOL Por (w/Small-Med-Lg OOids in pl) Barren Cht Wht-Gry (w/Blk Includ) Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Med OOL Por (w/Small-Med-Lg OOids in pl) Barren Cht Wht-Gry (w/Blk Includ) Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Poor OOL Por (w/Small-Med OOids) Grad Dns Micrite Cht Wht-Gry (w/ Blk Includ) Abd Translu-Op Shp Vit Chalk No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Med OOL Por (w/Small-Med OOids in pl) Barren Cht Wht-Gry (w/Blk Includ) Translu-Op Shp Vit Chalky Calcite Xls (Tr) Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Flor No Stn NS

~DST # 2~

Interval: 5307'-5355'
Times: 5"-60"-30"-90";
Blow: IF= Weak Surface Blow. No Blow Back.
FF= No Blow (Flushed Tool @ 10" Good Surge & Died). No Blowback.
Recovery: 5' M (100% M).

Pressures:
IH = 2576#;
FH = 2554#;
IF = 8-10#;
FF = 10-17#;
ISIP = 1439#;
FSIP = 1270#;
Temp = 123 degrees F..

Mudco Ck @ 5355' @ 12:50 PM 8/19/14

Vis= 72;
WT= 9.2;
PV= 20;
YP= 24;
WL= 10.4;
Cake= 1;
ChI= 3,700;
Cal = 20;
Sol= 6.2%.
LCM= 2#;
DMC=\$1,254.80;
CMC=\$15,383.80.

CHANGEOUT EXTRACTOR FILTER @ 5343' & GAS TEST. 127-UNITS OBSERVED ON TEST.

Gas Kick = 29 Units

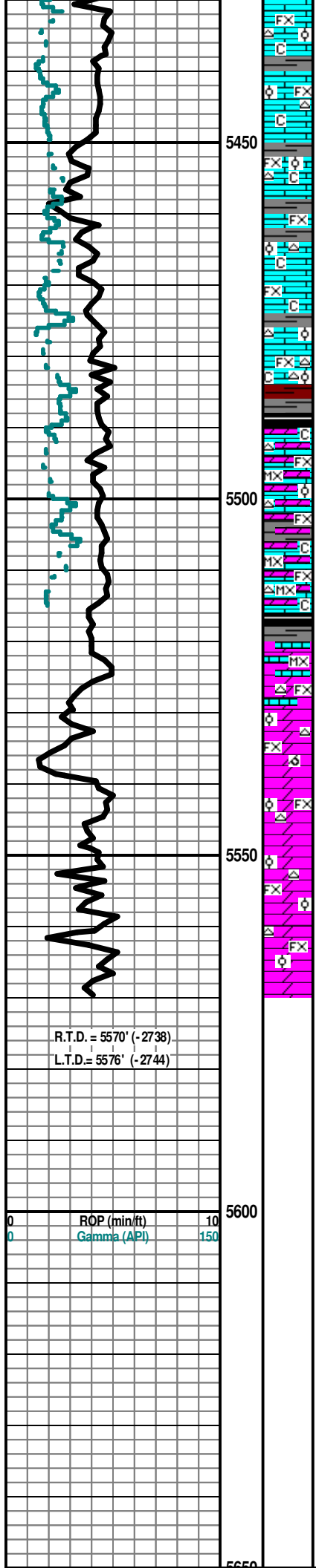
Gas Kick = 28 Units

Gas Kick = 30 Units

Gas Kick = 26 Units

TG C1-C5 75

Mudco Ck @ 5466' @ 11:00 AM 8/20/14



Ls Wht-Crm Fxln Med OOL Por (w/Smal OOids (w/Chlorite Includ) in pl) Barren Grad Poor Dns Micrite Cht Wht-Tan Op Shp Vit Chalky Sh
 Maroon-Aqua-Char Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Med OOL Por (w/Smal OOids in pl) Barren Grad Poor Dns
 Micrite Cht Wht-Gry (w/OOL inclus)-Peach Translu- Op Shp Vit Chalky Sh
 Blk Carb-Maroon- Fissil No Odor No Flor No Stn NS

Ls Crm-Lt Tan Fxln Med OOL Por (w/V Smal OOids in pl) Barren Grad Poor
 Dns Micrite Cht Wht-Gry (w/OOL inclus) Translu- Op Shp Vit Chalky Sh Blk
 Carb-Maroon- Fissil No Odor No Flor No Stn NS

Ls Crm-Lt Tan Fxln Fair OOL Por (w/V Smal OOids in pl) Barren Grad Poor
 Dns Micrite Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Blk Carb-Maroon-
 Fissil No Odor No Flor No Stn NS

Ls Crm-Lt Tan Fxln Fair OOL Por (w/V Smal OOids in pl) Barren Grad Poor
 Dns Micrite Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Blk Carb-Maroon-
 Fissil No Odor No Flor No Stn NS

Ls Crm-Lt Tan Fxln Poor-Fair OOL Por (w/V Smal OOids in pl) Barren Grad
 Poor Dns Micrite Cht Wht-Gry Translu-Op Shp Vit Chalky Sh Blk
 Carb-Maroon- Fissil No Odor No Flor No Stn NS

SALEM (SPERGEN) 5490' (- 2658)

Ls/Dolo Crm-Gry Fxln-Microxln Poor-Fair OOL Por AA Grad Micrite Cht Wht
 Op Shp Vit Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls/Dolo Crm-Gry Fxln-Microxln Poor-Fair OOL Por AA Grad Micrite Cht Wht
 Op Shp Vit Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls/Dolo Crm-Gry Fxln-Microxln Poor-Fair OOL Por AA Grad Micrite Cht Wht
 Op Shp Vit Sh Char-Gry Fissil No Odor No Stn No Flor NS

Dolo/Ls Crm-Gry Fxln-Microxln Poor-Fair OOL Por AA Grad Micrite Cht Wht
 Op Shp Vit Sh Char-Gry Fissil No Odor No Stn No Flor NS

Dolo Crm-Drk Tan Fxln Poor InterOOL Por (w/Small-Med OOids in pl) Poor
 Dissolution Fair Develop Grad Poor OOm Por Poor InterOOM (w.Med Vug
 Por) Cht Wht-Tan-Gry Op Shp Vit Sh Char-Gry- Aqua Fissil No Odor No Stn
 No Flor NS

Dolo Crm-Lt Tan Fxln Poor InterOOL Por (w/Small-Med OOids in pl) Poor
 Dissolution Fair Develop Cht Wht-Tan Op Shp Vit Sh Char- Gry-Aqua Fissil
 No Odor No Stn No Flor NS

30" CFS @ 5570' Dolo Crm-Lt Tan-Gry Fxln Poor InterOOL Por (w/Med
 OOids in pl) Poor Dissolution Fair Develop Cht Wht-Tan Op Shp Vit Sh
 Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

60" CFS @ 5570' Dolo Crm-Lt Tan-Gry Fxln Poor InterOOL Por (w/Med
 OOids in pl) Poor Dissolution Fair Develop Cht Wht-Tan Op Shp Vit Sh
 char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Vis= 48;
 WT= 9.25;
 PV= 15;
 YP = 16;
 WL= 10.4;
 Cake= 1;
 Chl= 3,000;
 Cal = 20;
 Sol= 6.3%.
 LCM= 2#;
 DMC=\$1,373.35;
 CMC=\$16,757.15.

R.T.D. = 5570' (-2738)
 L.T.D. = 5576' (-2744)

ELECTRIC LOGS RUN BY HALLIBURTON LOGGING: DUAL INDUCTION;
 COMPENSATED DENSITY-NEURTON; MICROLOG, SONIC & CASED HOLE
 GAMMA RAY-NEUTRON.

Geologist Left Location at: 11:00 AM 8/21/2014

ROP (min/ft) 10
 Gamma (API) 150

TG, C1-C5 75



Cement Report

Customer	Falcon Exploration		Lease No.			Date	8-14-14	
Lease	Nancy & Jasserand		Well #	1-8		Service Receipt		
Casing	8 5/8 24#	Depth	County	Gray		State	KS	
Job Type	2-42		Formation			Legal Description	8-28-30	
Pipe Data				Perforating Data				Cement Data
Casing size	8 5/8 24#		Tubing Size			Shots/Ft		Lead 460 5x @ 11.4 PPG 3y. CC, 14# Poly Flake, 27. WCA - 1 A-Con Blend Tail in 150 5x @ 14.8 PPG 27. CC, 14# Poly Flake Premium Plus Cement
Depth	1889'		Depth	From	To			
Volume	117 bbl		Volume	From	To			
Max Press			Max Press	From	To			
Well Connection			Annulus Vol.	From	To			
Plug Depth	1847'		Packer Depth	From	To			
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log			
0500					On location - Rig up			
0900					Safety Meeting			
0915	2500				Pressure Test			
0922	100		20	5	Pump Stoploss			
0930	150		241	5	Pump 460 5x @ 11.4 PPG			
1019	100		35	5	Pump 150 5x @ 14.8 PPG			
1029					Drop plug			
1032	150			5	Start Displacement			
1052	300		97	2	Slow Rate			
1056	300		107	1	Slow Rate			
1100	1000		117	1	Bump Plug			
1105	0				Release Pressure - Float Held			
					Shut Down Rig Down			
Service Units	78940	38750 19842	30463 17564	33021 14284				
Driver Names	Ruben	Carlos	Roger	Santiago				

Osbaldo
Customer Representative

Jerry Bennett
Station Manager

Ruben Martinez
Cementer



Cement Report

Customer Falcon Exploration	Lease No.	Date 8-21-14
Lease Nancy Jassersnd	Well # 1-8	Service Receipt
Casing Depth	County Gray	State KS
Job Type 2-42 PTA	Formation	Legal Description

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size	Shots/Ft		Lead 1705x @ 13.5 PPL 60/40 Poz Tail in
Depth	Depth	From	To	
Volume	Volume	From	To	
Max Press	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1900					On location - Rig up
2130					Safety Meeting
2159	1000				Pressure Test
2210	100		13	4	① 1920' 50 m @ 13.5 PPL
2215	100		24	4	Pump 50.5 @ 13.5 PPL
2220	0				Pump Displacement
					Shut Down
2315	100		13	4	② 810' 50.5 @ 13.5 PPL
2319	100		8	4	Pump 50.5 @ 13.5 PPL
2321					Pump Displacement
					Shut Down
2350	100		5	4	③ 60' 20.5 @ 13.5 PPL
2353					Pump 20.5 @ 13.5 PPL
0015					Miculate Cement To surface
6030					④ Plug Rat Hole 30.5X
					⑤ Plug Mouse Hole 20.5X
					Shut Down - Rig Down

Service Units	38730 19842	7840	14354 19857		
Driver Names	Ruben	Jesus	Roger		

Evaldo Customer Representative
 Jerry Bennett Station Manager
 Ruben Martinez Cementer