

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1346384
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: _____

1346384

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

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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Form	ACO1 - Well Completion
Operator	Kenneth W. Cory, Ltd.
Well Name	HUFF LAND 1
Doc ID	1346384

All Electric Logs Run

Array Induction Shallow Focused Electric
Compensated Sonic w/Integrated Transit Time
Compact Photo Density Compensated Neutron Microresistivity
Microresistivity Log



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

Well Name: HUFF LAND #1-
Location: Sec 12 34S 28W, Meade County, Kansas
License Number: 15-119-21398-00
Spud Date: OCT. 20, 2016
Surface Coordinates: 660' FSL & 660' FEL
Region: JOHAN
Drilling Completed: NOV. 1, 2016

Bottom Hole
Coordinates:
Ground Elevation (ft): 2274' K.B. Elevation (ft): 2286'
Logged Interval (ft): 4136' To: 6200' Total Depth (ft): 6200'
Formation: CHESTER, ST. LOUIS
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: KENNETH W. CORY, LTD.
Address: 6750 W. Loop South, Ste. 1050
Bellaire, Texas 77401-4198
Co. Geo: Mr. Daniel Cory

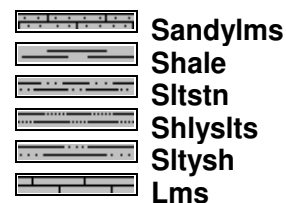
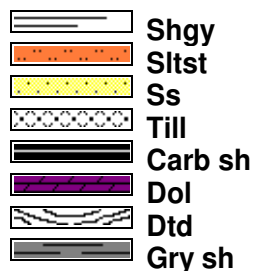
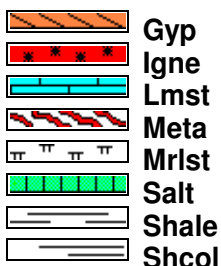
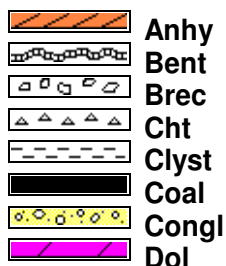
GEOLOGIST

Name: Tim Hedrick/ Edwin H. Grieves
Company: EARTH TECH OGL, Inc./ Grieves & co.
Address: PO Box 683
Hooker, Okla. 73945
Cell: 580-754-0062/ Off. 888-543-8378

Daily Status

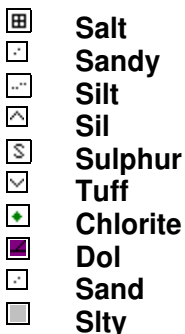
10/23/2016- On Location @ 1771' Gas unit operation @ 1771'. Trip out to repair rotary table @ 12:10 am depth 2535'
10/24/2016- 7 am - 2535' Working on Rotary Table
10/25/2016- 7 am - 3223' Drilling Ahead
10/26/2016- 7 am - 4200' Corrected to 4188' after bit trip strap
10/27/2016- 7 am - 4709' Drilling ahead
10/28/2016- 7 AM - 5085' Drilling ahead/ Trip f/ plugged Bit @ 5101' at 10:45 Am, BOB @ 5:03 Pm. Drilling
10/29/2016- 7 AM - 5305' Drilling Ahead
10/30/2016- 7 AM - 5623' Drilling Ahead
10/31/2016- 7 AM - 5940' Drilling Ahead

ROCK TYPES

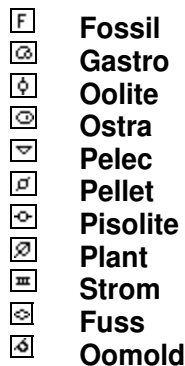
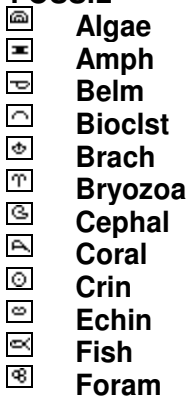


ACCESSORIES

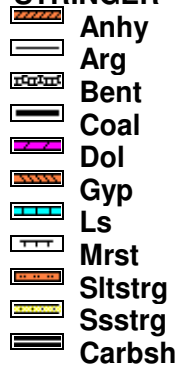
MINERAL



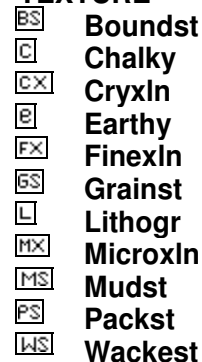
FOSSIL



STRINGER

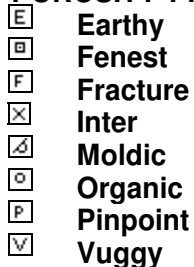


TEXTURE

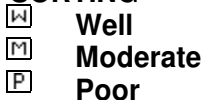


OTHER SYMBOLS

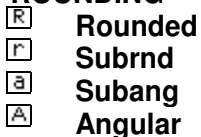
POROSITY TYPE



SORTING



ROUNDING



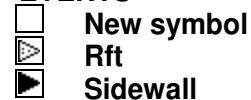
OIL SHOWS

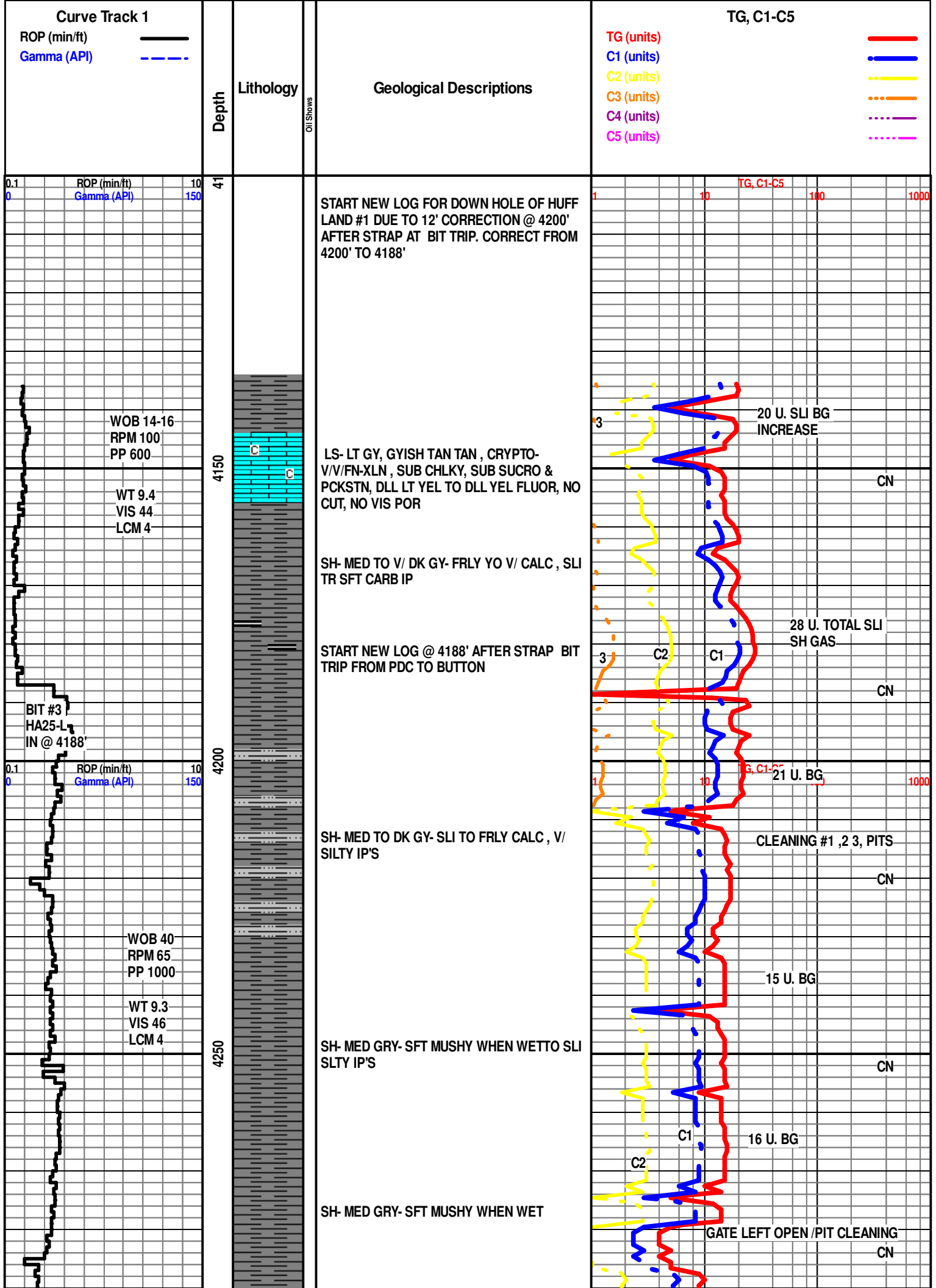


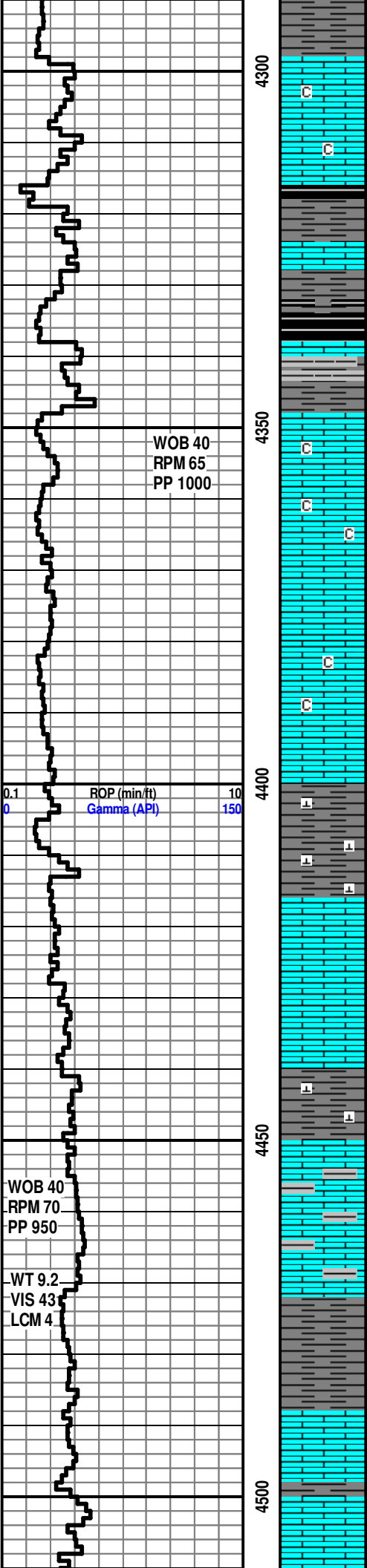
INTERVALS



EVENTS







LS- LT GY TO TAN- CRYPTO-V/V/FN-XLN TRS
CHLK, SUB SUCRO & PCKSTN. DLL YEL
FLUOR, NO CUT, NO VIS POR

SH- V/ DK GY TO BLK SFT CARB

HEEBNER SH 4338' (-2052')

SH- BLK SFT CARB

LS- GRYISH TAN TO TAN-CRYPTO-XLN
PCKSTN TO S-LITHO, DLL LT YEL FLUOR, NO
CUT, NO VIS POR

SH- LT GY TO LT GRN, SLTY IP'S

TORONTO 4347' (-2061')

(FASTER DRILLING) LS- TRS TO HVY TRS WHT
TO CRM - CHLK, CRM LT TN SUB CHLK, SUB
SUCRO TO SUCRO, DLL LT YEL FLUOR, NO
CUT, HVY TRS PR MICRO PP POR & POSS
INTER-XLN POR IP'S

(SLOWER DRILLING) LS- LT GRY TO TAN,
CRYPTO-XLN TO PCKSTN, S-LITHO, DLL YEL
FLUOR, NO CUT, NO VIS POR

SH-MED TO LT GY- SLI TO V/ CALC IP'S
GRDNG TO V/ SHLY LS

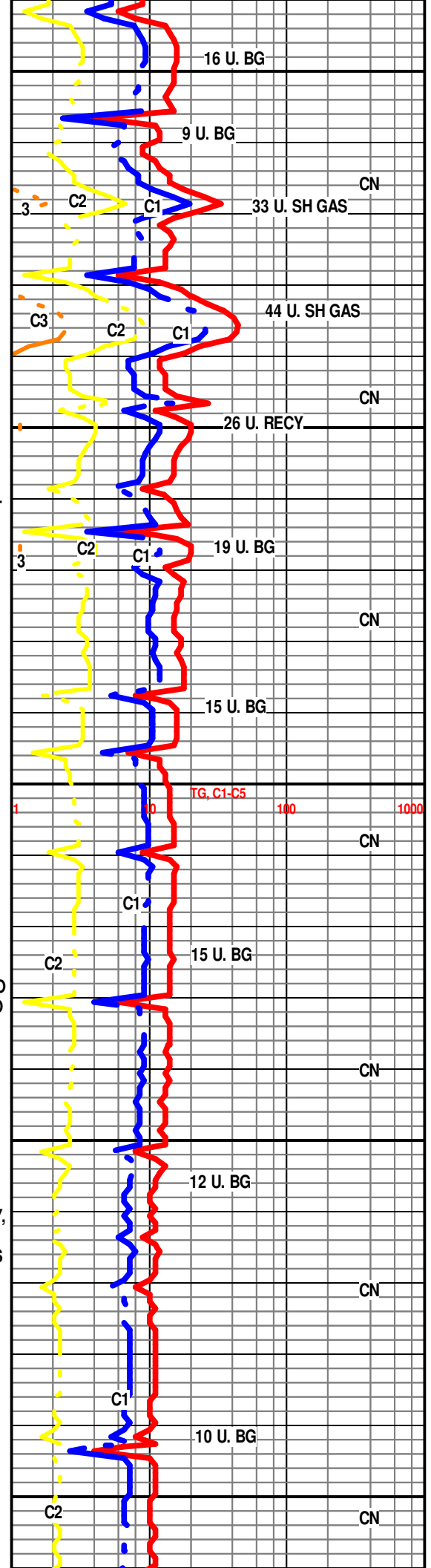
LS- GRY TAN TO TAN-CRYPTO- V/V/FN-XLN,
TR SUB CHALKY TO SUB SUCRO ,SUB SUCRO
& PCKSTN, DLL LT TO TRS LT YEL FLUOR, NO
CUT , NO VIS POR

SH- LT YO MED GRY- SLI TO V/ CALC IP'S

LS- LT TO MED GRY , TRS DK GY-
CRYPTO-V/V/FN-XLN, SLI TO EXTREMELY SHLY,
GRDNG TO CALC SHLS, TRS SUB CHLKY ,
TRS SUB SUCRO & PCKSTN, NO CUT , NO VIS
POR, NO FLUOR

LANSING 4489' (-2203')

LS- LT GRY GRYISH TAN TO
TAN-CRYPTO-V/FN-XLN, SUB SUCRO &
PCKSTN, TRS SUB LITHO, V/ DLL LT YEL
FLUOR, NO CUT, NO VIS POR



"B"

4550

4600

4650

4700

LS- TAN-CRYPTO-V/V/FN-XLN, VERY TO EXTREM OOLITIC, SLI TO TR FRLY OOLICSTIC, TRS SUB CHLKY, SUB SUCRO & PCKSTN, YEL FLUOR, NO VIS CUT, TRS PR TO FR OOLICSTIC POR, V/ QUESTIONABLE PERM, TRS TAN OPQUE CHRT

LS- LT GRY TO TAN- CRYPTO-V/V/FN-XLN ,SUB SUCRO & PCKSTN, PHNTM OOLITES IP'S, DLL LT YEL FLUOR, NO CUT NO VIS POR

SH- LT TO MED GRY- SLI TO V/ CALC IP

LS- TRS WHT TO CRM CHLK & LT TN TO TN CRYPTO- V/V/FN-XLN, SUB CHLKY, SUB SUCRO TO SUCRO , PHNTM OOLITES IP'S, DLL LT TO LT YEL FLUOR, NO CUT,ABDT PR FR TO TRS GD TO SLI TRS EXCEL MICRO PP POR & POSS INTER-XLN POR

LS- TRS WHT TO CRM CHLK & LT TAN TO TAN CRYPTO- V/V/FN-XLN, SUB SUCRO TO SUCRO & PCKSTN, TRS PHNTM OOLITES, DLL LT YEL TO YEL FLUOR IP'S, NO CUT, ABDT PR FR TO TR GD TR EXCEL MICRO PP POR TO INTER-XLN POR IP, TRS TAN OPQUE CHRT

4618'- 4630' LS- LT GRY TO TAN- CRYPTO TO TRS V/V/FN-XLN, TRS SUB SUCRO & PCKSTN TO SUB LITHO, DLL LT TO LT YEL FLUOR, NO CUT NO VIS POR

4630-4646' TRS TO HVY TRS WHT TO CRM CHLK, LT TAN TO TAN CRYPTO TO V/V/FN-XLN , SUB CHLK TO SUB SUCRO TO SUCRO, PHNTM OOLITIC TO OOLITES IP'S, DLL LT TO LT YEL FLUOR, NO CUT ,ABDT PR TO FR MICRO PP POR & PROB INTER-XLN POR IP'S

4646-4665' LS- TAN TO TRS LT GRY- CRYPTO-XLN, PCKSTN & SUB LITHO, V/ DLL LT YEL FLUOR, NO CUT , NO VIS POR

4665'-4674' LS- ABDT WHT TO CRM CHLK, LT TN TO TN CRYPTO-V/V/FN-XLN, TRS SUB CHLK TO SUB SUCRO TO SUCRO, SLI TRS PHNTM OOLICSTIC TO SLI TRS PHNTM OOLITES, DLL LT TO TRS YEL FLUOR,NO CUT ,ABDT PR, FR , GD TO TRS EXCEL MIRO PP & INTER-XLN POR

4674'-4682' LS- TRS WHT TO TO CRM CHLK, LT TN TO TAN CRYPTO-VV/FN-XLN , SUB CHLKY TO SUB SUCRO SUCRO & PCKSTN, DLL YEL TO TRS YEL FLUOR, NO CUT, TRS, PR TO FR MICRO PP POR IP'S & INTER-XLN POR IP'S

4682'-4710' - LS- V/ EXTREMELY ABDT WHT TO CRM CHLK, TAN- SLI TO V/ OOLICASTIC IP'S, SLI TO V/ OOLITIC IP'S, TRS CHLK, SUB CHLKY, SUB SUCRO TO SUCRO & TRS PCKSTN, DLL LT YEL TO DLL YEL & TRS YEL FLUOR, NO CUT, ABDT PR TO FR , TRS GD & SLI TRS EXCEL OOLICASTIC , PP MICRO PP & INTER-XLN POR

4710'-4732' LS -LT TO MED GRY & GRYISH TAN, SLI TO FRLY SHLY, CRYPTO-V/V/FN-XLN, SUB SUCRO & PCKSTN, SUB LITHO, NO FLUOR, NO VIS POR, ABDT CHERT GY TO TAN OPQUE

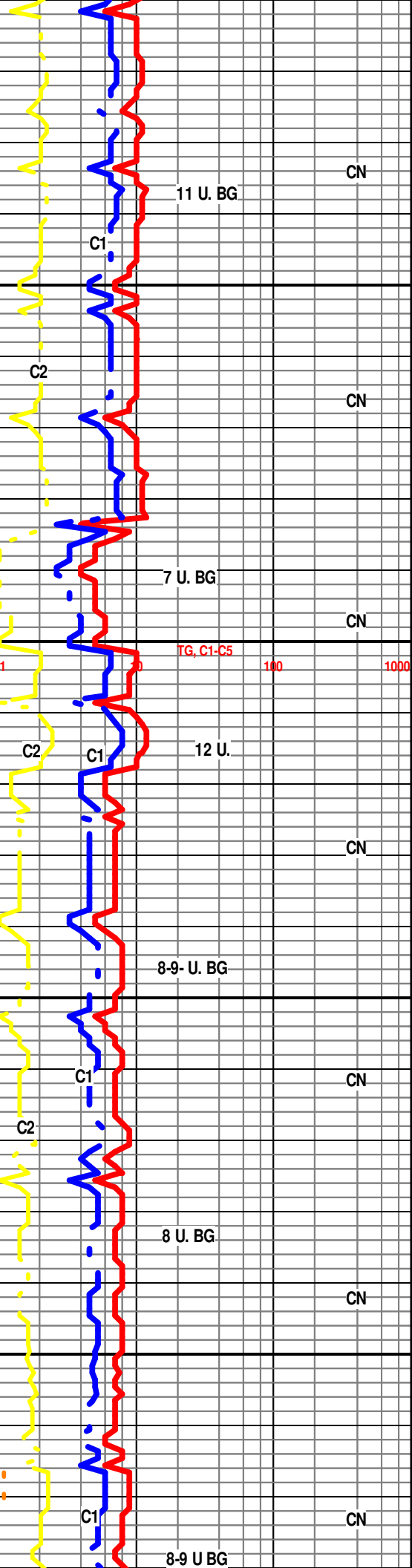
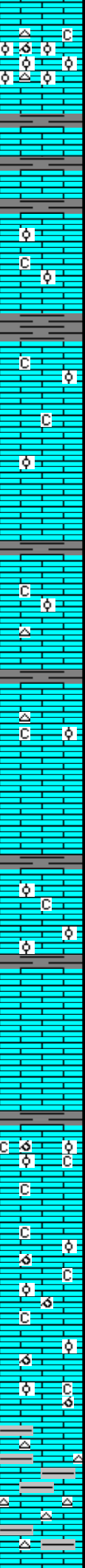
WOB 40
RPM 70
PP 950

WT 9.3
VIS 53
LCM 4

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

WOB 40
RPM 70
PP 950

WT 9.3
VIS 52
LCM 3



11 U. BG

CN

C1

C2

CN

7 U. BG

CN

TG, C1-C5

100

1000

C2

C1

12 U.

CN

8-9- U. BG

CN

C1

C2

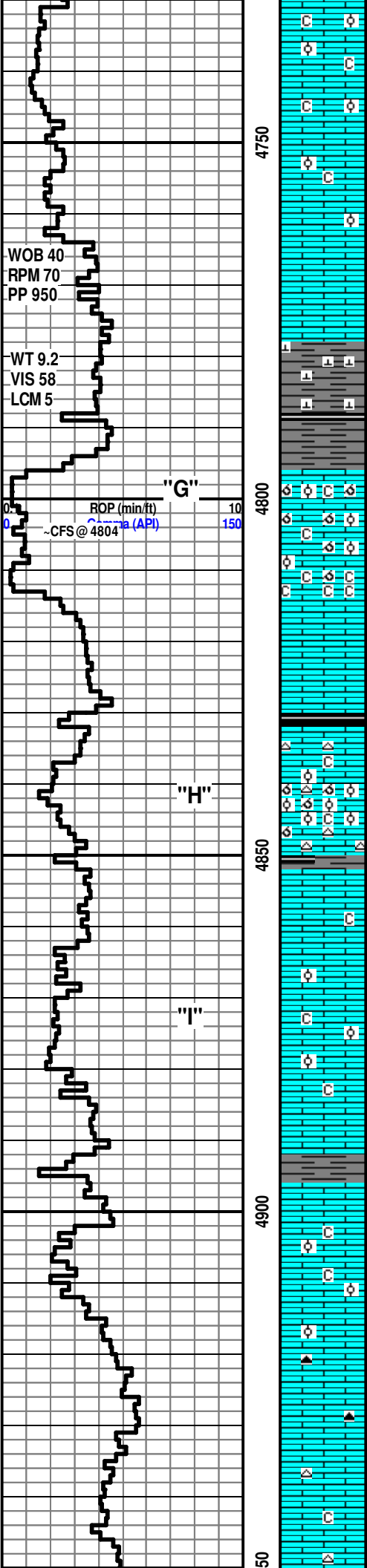
8 U. BG

CN

C1

8-9 U BG

CN



4732' - 4765' LS-V/ EXTREMELY ABDT WHT TO CRM CHLK, LT TAN TO TAN
CRYPTO-V/V/FN-XLN, V/ TO EXTEMLY
PHANTM OOLITIC TO OOLITIC, SUB CHLKY,
SUB SUCRO TO SUCRO & TRS PCKSTN , DLL
LT YEL TO TR LT YEL FLUOR, NO VIS CUT

4765'-4778' LS- TAN GRVISH IP'S, CRYPTO TO
TRS V/V/FN-XLN, TRS SUB SUCRO, PCKSTN
TO TRS SUB LITHO, DLL YEL FLUOR, NO CUT,
NO VIS POR

SH- MED GRV, V/ TO EXTREMELY CALC GRDNG
TO EXTREMELY SHLY LS'S

SH- V/DKGRV TO BLK SFT CARB

4796'- 4814' LS- HVY TRS WHT TO CRM CHLK & TAN
CRYPTO-VV/FN-XLN , EXTREMELY OOLITIC & OR
EXTREMELY OOLICASTIC MATRIX, SUB CHLKY, SUB
SUCRO TO SUCRO & PCKSTN, DLL YEL FLUOR, NO CUT,
ABDT PR TO FR TO TR GD TO EXCEL OOLICASTIC POR,
TRS PR TO FR MICRO PP TO INTER-XLN POR, BECOMING
ABDT CHLKY IN BOTTOM OF ZONE

4924' 4830' LS-LT GRV TO TAN, CRYPTO-V/V/FN-XLN, TRS
SUB SUCRO & PCKSTN TO HVY TR SUB LITHO, DLL YEL
FLUOR IP'S, NO CUR NO VIS POR

4830'-4832' SH-V/DKGRV TO BLK SFT CARB

4832'-4837' LS- LT GRV TO TAN, CRYPTO-V/V/FN-XLN,
TRS SUB SUCRO & PCKSTN, TRS SUB LITHO, DLL YEL
FLUOR IP'S, NO CUT NO VIS POR, TRS CHRT LT TO MD
GRV OPQUE

4837' -4847' LS-HVY TRS WHT TO CRM CHLK, LT TN TN
CRYPTO TO VV/FN-XLN, PHNTM OOLITIC TO OOLITIC & OR
SLI TO FRLY OOLICASTIC IP'S, MATRIX SUB CHLKY SUB
SUCRO TO TRS SUCRO & PCKSTN, DLL LT TO TRS YEL
FLO, NO CUT, HVY TRS PR TO FR OOLICASTIC POR TO TR
PR MICRO PP POR IP'S W/ TRS CHRT LT TO MED GY
OPQUE

4847' 48450' LS- LT GRV TO TAN, CRYPTO-V/V/FN-XLN,
TRS SUB SUCRO & PCKSTN, TRS SUB LITHO, DLL YEL
FLUOR IP'S, NO CUT NO VIS POR, TRS CHRT LT TO MD
GRV OPQUE

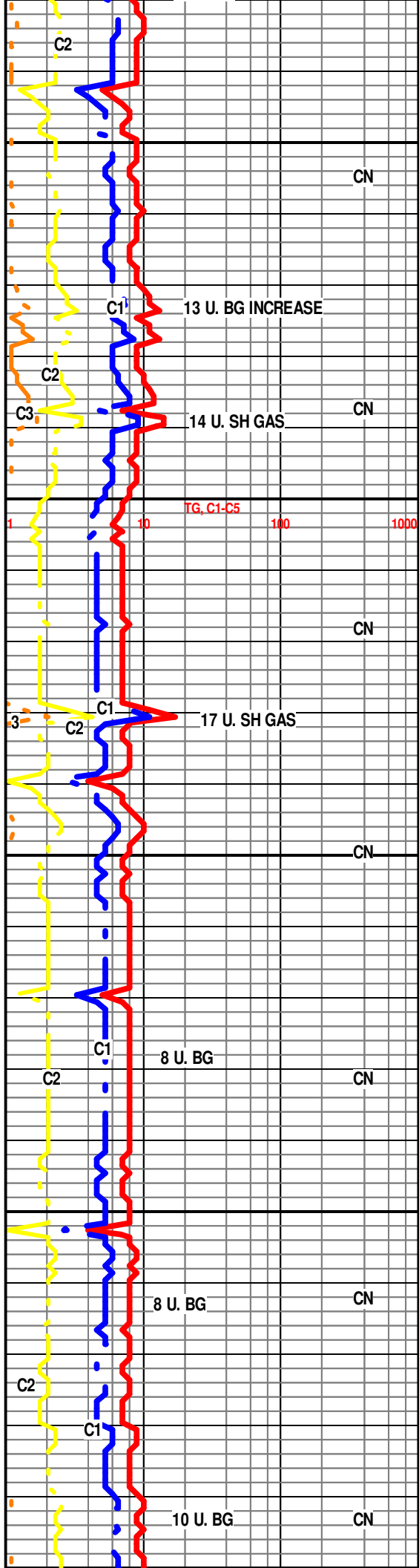
4849-4852- SH V/DK GY TO BLK SFT CARB

4852 -4880' LS- EXTREMELY ABDT WHT TO CRM CHLK &
LT TAN TO TAN , CRYPTO-VV/FN-XLN, SUB CHLKY, SUB
SUCRO TO SUCRO, TRS W/ PHNTM OOLITES, DLL LT YEL
FLUOR, NO CUT, ABDT PR FR TO TRS GD MICRO PP &
INTER-XLN POR

4880-4904' LS- TRS TO HVY TRS WHT TO CRM CHLK, LT
TAN TO TAN CRYPTO-VV/FN-XLN, SUB CHLKY, SUB
SUCRO TO TRS SUCRO & PCKSTN, DLL YEL FLUOR, TRS
MICRO PP POR IPS & POSS INTER-XLN POR

4904 -4915' LS- EXTREMELY ABDT WHT TO
CRM CHLK & LT TAN TO TAN ,
CRYPTO-V/V/FN-XLN, SUB CHLKY, SUB SUCRO
TO SUCRO, TRS W/ PHNTM OOLITES, DLL LT
YEL FLUOR, NO CUT, ABDT PR FR TO TRS GD
MICRO PP & INTER-XLN POR

4915' - 4958' LS- CRM LT TN TO TN
CRYPTO-V/V/FN-XLN SUB CHLKY, SUB
SUCRO & PCKSTN & ABDT SUB LITHO, DLL



CN

13 U. BG INCREASE

CN

14 U. SH GAS

TG, C1-C5

CN

17 U. SH GAS

CN

8 U. BG

CN

8 U. BG

CN

10 U. BG

CN

YEL TO YEL FLUOR, NO CUT, NO VIS POR, TRS CHRT GRY OPQUE

4958'-4976' LS - LT MED TO DK GRY- SLI TO EXREMLY SHLY, CRYPTO-XLN, PCKSTN TO SUB LITHO, NO FLUOR, NO CUT, NO VIS POR, GRNG TO SH- MED TO DK GRY- CALC & V/ DK GRY TO TRS BLK, HVY TRS CHRT GRY DK GRY OPQUE

KANS. CITY "A" 4993' (-2707)

SH- V/ DK GY TO BLK SFT CARB

4994'-4998' LS- LT TO MED GRY- FRLY TO V/ SHLY,CRYPTO-XLN, SUB CHLKY & OR SHLY & PCKSTN, NO FLUOR, NO CUT, NO VIS POR

4998'-5003' LS- HVY TRS WHT TO CRM CHLK & LT TN TO TN CRYPTO-V/V/FN-XLN,V/TO EXTREMELY OOLICASTIC & OR SLI TO V/ OOLITIC MATRIX, TRS SUB CHLKY, SUB SUCRO TO SUCRO, DLL LT YEL TO SLI TRS YEL FLUOR, NO CUT, ABDT PR FR TO GD TRS EXCEL OOLICASTIC POR, MICRO PP TO INTER-XLN POR

5003'-5038' LS TRS WHT TO CRM CHLK & LT TAN TO TAN & GRYISH TAN TO LT TO MED GRY- SLI TR TO V/ SHLY, CRYPTO TO V/V/FN-XLN, CHLK, SUB CHLKY, TRS SUB SUCRO, PCKSTN & SUB LITHO, DLL LT YEL FLUOR IP'S,NO CUT, NO VIS POR

5038'-5071' LS TRS WHT TO CRM CHLK & LT TAN TO TAN & GRYISH TAN TO LT TO MED GRY- SLI TR TO V/ SHLY, CRYPTO TO V/V/FN-XLN, CHLK, SUB CHLKY, TRS SUB SUCRO, PCKSTN & SUB LITHO, V/ LRG INCREASE IN SHLY LIMES, DLL LT YEL FLUOR IP'S,NO CUT, NO VIS POR

5071'-5080' SH- MED TO V/ DK GRY- SLI TO EXTREMELY CALC, GRDING TO SHLY LIMES

KANS. CITY "B" 5084' (-2078')

5080'-5084' SH- V/DK GRY TO BLK SFT CARB

5084'-5093' LS- LT TO MED TO V/ DK GRY, V/ TO EXTREMELY SHLY,CRYPTO-XLN, PCKSTN & SUB LITHO, GRDNG TO V/ CALC SHALE, NO FLUOR, NO CUT, NO VIS POR, TRS CHRT GRY & OPQUE

5093 - 5097' LS WHT TO CRM CHLK & LT TN TO TN CRYPTO-V/V/FN-XLN, TRS SUB CHLKY, SUB SUCRO TRS PHNTM OOLICASTIC & OR TRS PHNTM OOLITES, DLL YEL FLUOR, NO CUT, PR TO FR TRS GD MICRO PP & INTER-XLN POR

5097-5106' LS- LT TO MED GRY, TANISH IP'S, CRYPTO- TRS V/V/FN-XLN, TRS SUB SUCRO & PCKSTN TO SUB LITHO, NO FLUOR, NO CUT, NO VIS POR

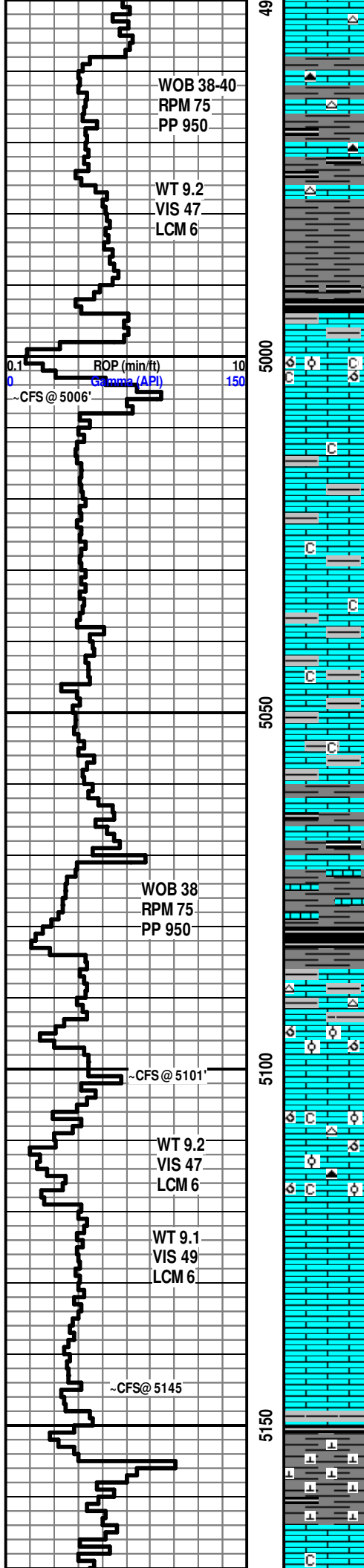
5106- 5119' LS- HVYTRS WHT TO CRM CHLK & CRM TO LT TN, CRYPTO-V/V/FN-XLN, SLI TO FRLY OOLICASTIC & OR SLI TO FRLY OOLITIC MATRIX, TRS SUB CHLKY, SUB SUCRO TO SUCRO & HVY TRS PCKSTN, STRNG OIL & OR SULPHUR ODOR, V/ FAINT RING CUT, ABDT PR TO FR OOLICASTIC POR & ABDT PR FR GD TRS EXCEL MICRO PP & POSS INTER-XLN POR IP'S, TRS CHERT DK TAN OPQUE

5119'-5248' LT TO MED GRY, TANISH IP'S, CRYPTO- TRS V/V/FN-XLN, TRS SUB SUCRO & PCKSTN TO SUB LITHO, NO FLUOR, NO CUT, NO VIS POR

PLEASANTON 5148' (-2862')

5148'-5164' SH- MED TO V/ DK GRY- SLI TO EXTREMELY CALC GRDNG TO EXTREMELY SHLY LS TRS, V/ DK GRY TO BLK SFT CARB

MARM. 5164' (-2878')



4958'-4976' LS - LT MED TO DK GRY- SLI TO EXREMLY SHLY, CRYPTO-XLN, PCKSTN TO SUB LITHO, NO FLUOR, NO CUT, NO VIS POR, GRNG TO SH- MED TO DK GRY- CALC & V/ DK GRY TO TRS BLK, HVY TRS CHRT GRY DK GRY OPQUE

KANS. CITY "A" 4993' (-2707)

SH- V/ DK GY TO BLK SFT CARB

4994'-4998' LS- LT TO MED GRY- FRLY TO V/ SHLY,CRYPTO-XLN, SUB CHLKY & OR SHLY & PCKSTN, NO FLUOR, NO CUT, NO VIS POR

4998'-5003' LS- HVY TRS WHT TO CRM CHLK & LT TN TO TN CRYPTO-V/V/FN-XLN,V/TO EXTREMELY OOLICASTIC & OR SLI TO V/ OOLITIC MATRIX, TRS SUB CHLKY, SUB SUCRO TO SUCRO, DLL LT YEL TO SLI TRS YEL FLUOR, NO CUT, ABDT PR FR TO GD TRS EXCEL OOLICASTIC POR, MICRO PP TO INTER-XLN POR

5003'-5038' LS TRS WHT TO CRM CHLK & LT TAN TO TAN & GRYISH TAN TO LT TO MED GRY- SLI TR TO V/ SHLY, CRYPTO TO V/V/FN-XLN, CHLK, SUB CHLKY, TRS SUB SUCRO, PCKSTN & SUB LITHO, DLL LT YEL FLUOR IP'S,NO CUT, NO VIS POR

5038'-5071' LS TRS WHT TO CRM CHLK & LT TAN TO TAN & GRYISH TAN TO LT TO MED GRY- SLI TR TO V/ SHLY, CRYPTO TO V/V/FN-XLN, CHLK, SUB CHLKY, TRS SUB SUCRO, PCKSTN & SUB LITHO, V/ LRG INCREASE IN SHLY LIMES, DLL LT YEL FLUOR IP'S,NO CUT, NO VIS POR

5071'-5080' SH- MED TO V/ DK GRY- SLI TO EXTREMELY CALC, GRDING TO SHLY LIMES

KANS. CITY "B" 5084' (-2078')

5080'-5084' SH- V/DK GRY TO BLK SFT CARB

5084'-5093' LS- LT TO MED TO V/ DK GRY, V/ TO EXTREMELY SHLY,CRYPTO-XLN, PCKSTN & SUB LITHO, GRDNG TO V/ CALC SHALE, NO FLUOR, NO CUT, NO VIS POR, TRS CHRT GRY & OPQUE

5093 - 5097' LS WHT TO CRM CHLK & LT TN TO TN CRYPTO-V/V/FN-XLN, TRS SUB CHLKY, SUB SUCRO TRS PHNTM OOLICASTIC & OR TRS PHNTM OOLITES, DLL YEL FLUOR, NO CUT, PR TO FR TRS GD MICRO PP & INTER-XLN POR

5097-5106' LS- LT TO MED GRY, TANISH IP'S, CRYPTO- TRS V/V/FN-XLN, TRS SUB SUCRO & PCKSTN TO SUB LITHO, NO FLUOR, NO CUT, NO VIS POR

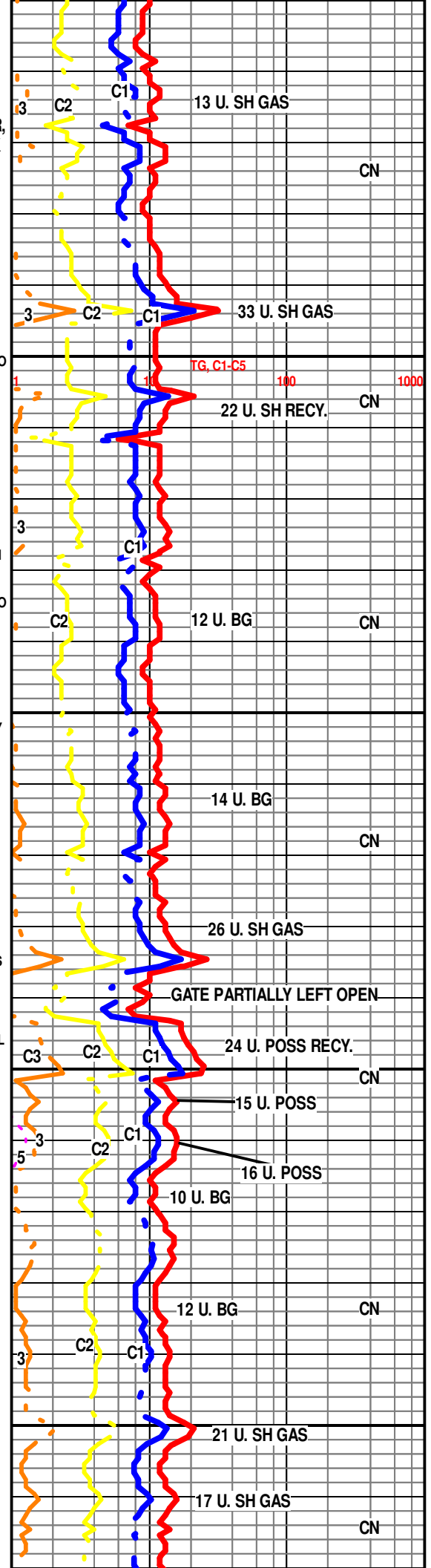
5106- 5119' LS- HVYTRS WHT TO CRM CHLK & CRM TO LT TN, CRYPTO-V/V/FN-XLN, SLI TO FRLY OOLICASTIC & OR SLI TO FRLY OOLITIC MATRIX, TRS SUB CHLKY, SUB SUCRO TO SUCRO & HVY TRS PCKSTN, STRNG OIL & OR SULPHUR ODOR, V/ FAINT RING CUT, ABDT PR TO FR OOLICASTIC POR & ABDT PR FR GD TRS EXCEL MICRO PP & POSS INTER-XLN POR IP'S, TRS CHERT DK TAN OPQUE

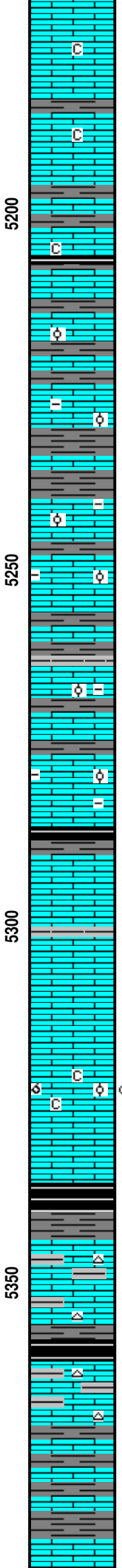
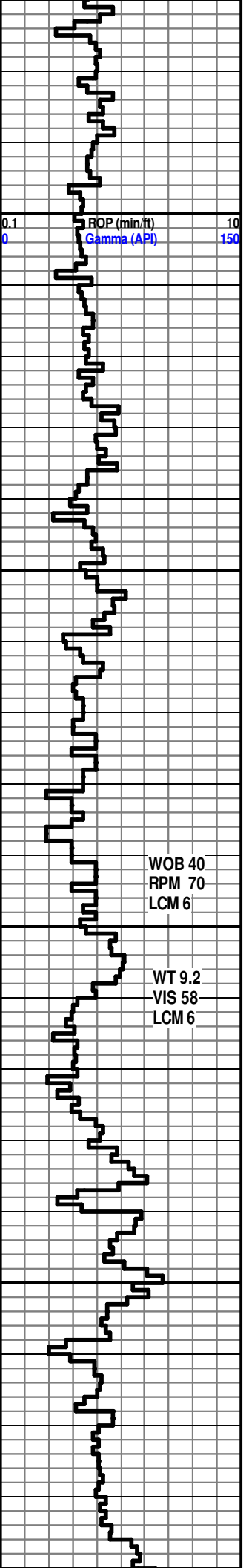
5119'-5248' LT TO MED GRY, TANISH IP'S, CRYPTO- TRS V/V/FN-XLN, TRS SUB SUCRO & PCKSTN TO SUB LITHO, NO FLUOR, NO CUT, NO VIS POR

PLEASANTON 5148' (-2862')

5148'-5164' SH- MED TO V/ DK GRY- SLI TO EXTREMELY CALC GRDNG TO EXTREMELY SHLY LS TRS, V/ DK GRY TO BLK SFT CARB

MARM. 5164' (-2878')





5164 '-5207' LS- LT TO MED GRY CRYPTO TO TRS V/V/FN-XLN, TRS SUB CHLKY & PCKSTN & SUB LITHO, DLL LT YEL FLUOR, NO CUT NO VIS POR

SH- V/ DK GRY TO V/ CALC IP

SH- V/ DK GRY TO BLK SFT CARB

5209-5240' LS- V/ SLI TRS WHT TO CRM CHLK & LT TN TO TN DK TAN & HVY TRS LT TO MED GRY SLI TO EXTREMELY SHLY, TRS GRDNG TO EXTEMPLY CALC SH, CRYPTO-V/V/FN-XLN, TRS SUB CHLKY, TRS SUB SUCRO & PCKSTN & SUB LITHO, HVY TRS PHNTM OOLITIC TO TRS OOLITIC IP'S, DLL YEL TO TRS YEL FLUOR, NO CUT, NO VIS POR

SH- V/ DK GRY TO V/ CALC TO LMY

5240-5286' LS- V/ SLI TRS WHT TO CRM CHLK & LT TN TO TN DK TAN & LT TO MED GRY SLI TO EXTREMELY SHLY, CRYPTO-V/V/FN-XLN, TRS SUB CHLKY, TRS SUB SUCRO & PCKSTN & SUB LITHO, HVY TRS PHNTM OOLITIC TO TRS OOLITIC IP'S, DLL YEL TO TRS YEL FLUOR, NO CUT, NO VIS POR

PAWNEE 5288' (-3002')

SH- V/ DK GRY TO BLK SFT CARB

5288'-5310' LS-TAN TO DK TAN GRISH IP'S, CRYPTO-V/V/FN-XLN, TRS SUB SUCRO, PCKSTN & SUB LITHO, DLL YEL FLUOR, NO CUT NO VIS POR

5310-5327' LS-TRS WHT TO CRM CHLK 7 LT TN TO TN CRYPTO-V/V/FN-XLN SUB SUCRO & PCKSTN, SLI TRS PHNTM OOLICASTIC, SLI TRS OOLITIC IP, DLL YEL TO TRS LEMON YEL FLUOR, TRS FAINT STRMING CUT, SLI TRS PR TO V/ SLI TRS FR OOLICASTIC TO PP & MICRO PP POR, NO ODOR

FT SCOTT 5340' (-3054')

SH- V/ DK GRY TO BLK SFT CARB

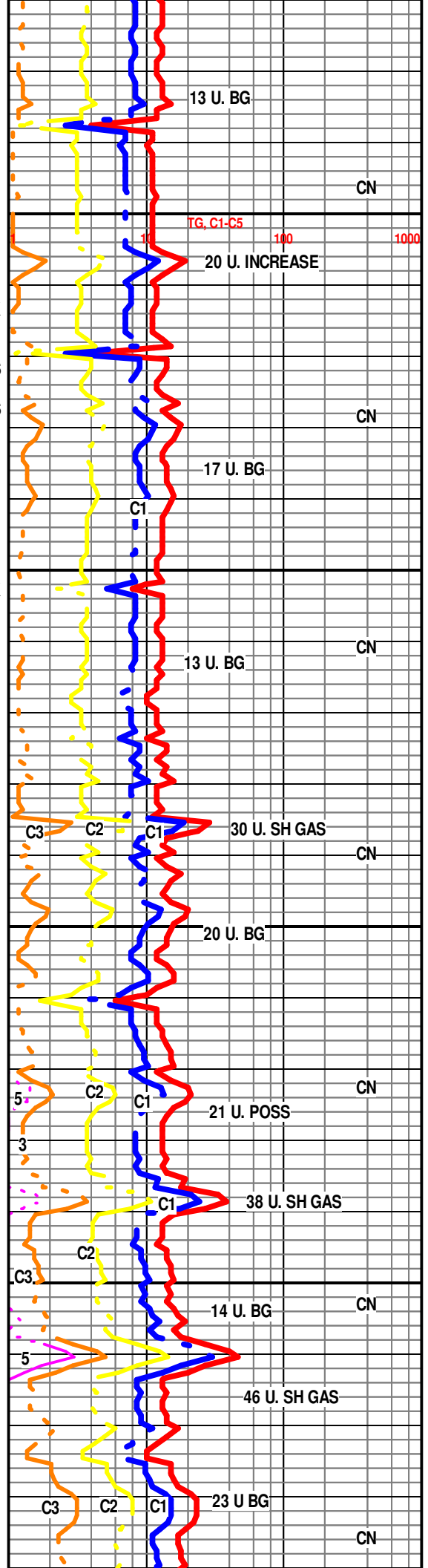
5340-5358' LS- LT TN TO TN GYISH IP'S TO LT TO MED GRY, SLI TO FAIRLY SHLY, CRYPTO TO V/V/FN-XLN, SUB SUCRO, PCKSTN & TRS SUB LITHO, DLL YEL TO SLI TR YEL FLUOR, NO CUT. NO VIS POR, TRS CHRT GRY TO TAN OPQUE

CHEROKEE 5362'(-3076)

SH- V/ DK GRY TO BLK SFT CARB

5362-5368LS- LT TN TO TN GYISH IP'S TO LT TO MED GRY, SLI TO FAIRLY SHLY, CRYPTO TO V/V/FN-XLN, SUB SUCRO, PCKSTN & TRS SUB LITHO, DLL YEL TO SLI TR YEL FLUOR, NO CUT. NO VIS POR, TRS CHRT GRY TO TAN OPQUE

5368-5386' LS- MED TO DK GRY, CRYPTO-V/V/FN-XLN, V/ TO EXTREMELY SHLY & OR EXTREMELY SLTY, SUB SUCRO & PCKSTN. NO FLUOR. NO VIS CUT. NO VIS SHOW



WOB 40
RPM 70
LCM 6

WT 9.2
VIS 58
LCM 6

5200

5250

5300

5350

13 U. BG

20 U. INCREASE

17 U. BG

13 U. BG

30 U. SH GAS

20 U. BG

21 U. POSS

38 U. SH GAS

14 U. BG

46 U. SH GAS

23 U. BG

CN

CN

CN

CN

CN

CN

CN

TG, C1-C5

100

1000

C1

C3

C2

C1

5

C2

C1

3

C1

C3

C2

5

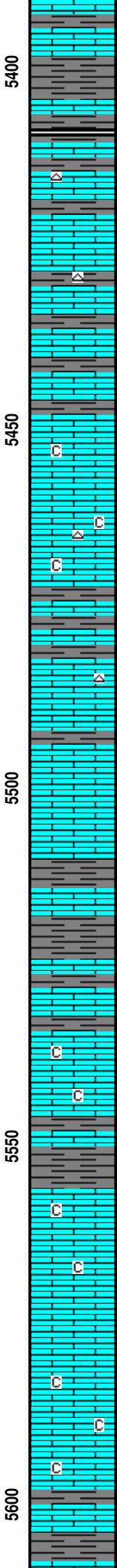
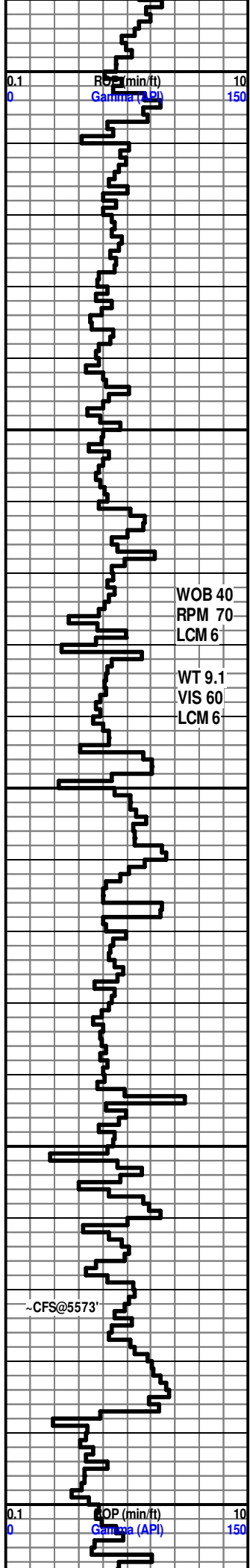
C2

C1

C3

C2

C1



5386-5407 LS- GRAYISH TAN TO TAN, CRYPTO-V/V/FN-XLN TRS SUB CHLKY, SUB SUCRO, PCKSTN TO TRS SUB LITHO, W/ DLL TO V/ DLL LT YEL FLUOR, NO CUT, NO VIS POR

5407-5410- SH- V/ DK GY TO BLK SFT CARB

5410-5440' LS- LT MED TO DK GRY, SLI TO EXTREMELY SHLY GRDNG TO INTERBEDS CALC SHALE MED TO V/ DK GRY, CRYPTO-XLN TO PCKSTN, NO FLUOR, NO VIS POR, NO CUT

5440-5498' LS- GRAYISH TAN TO TAN, CRYPTO-V/V/FN-XLN, TRS SUB CHLKY, SUB SUCRO, PCKSTN TO TRS SUB LITHO, V/V/DLL TO V/ DLL LT YEL FLUOR, NO CUT, NO VIS POR, NO VIS POR

5498-5501 LS- TAN, V/V/FN-XLN, SUB SUCRO TO TRS DLL YEL TO TRS YEL FLUOR, W/ FAINT RING CUT, SLI TR POOR MICRO PP POR, POSS INTER-XLN POR IP'S

5501-5531' LS- LT MED TO DK GRY, SLI TO EXTREMELY SHLY GRDNG TO INTERBEDS CALC SHALE MED TO V/ DK GRY, CRYPTO-XLN TO PCKSTN, NO FLUOR, NO VIS POR, NO CUT

SH- MED TO V/ DK GY CALC TO V/ DK GRY TO BLK SFT CARB

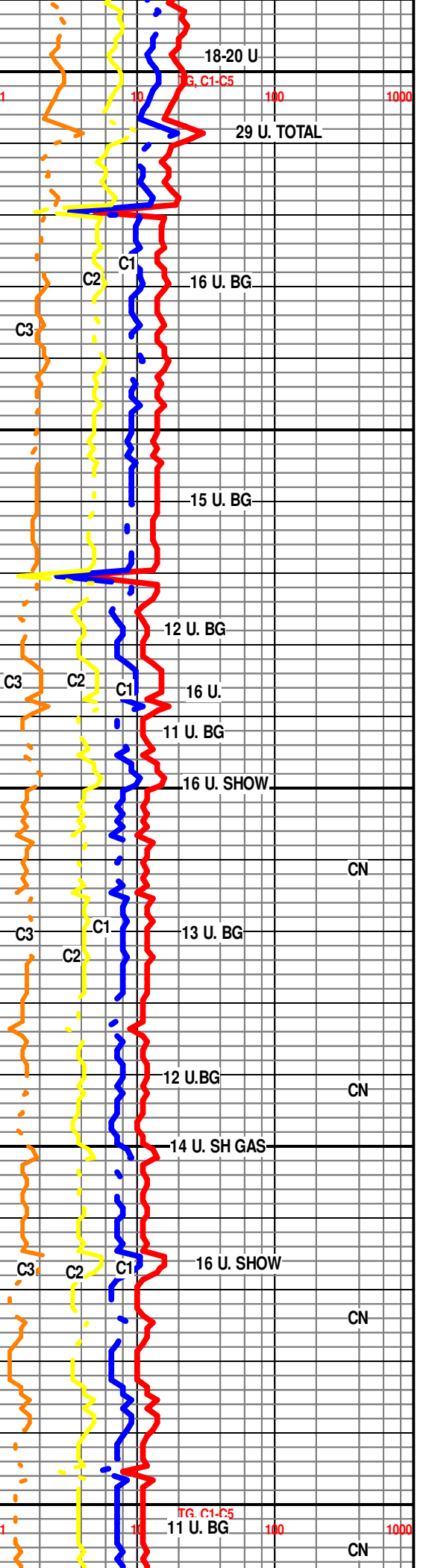
5531'-5551 LS- TAN GRAYISH IP, CRYPTO-XLN TO SLI TRS CHLK, PCKSTN & SUB LITHO, V/ DLL YEL FLUOR, NO CUT, NO VIS POR

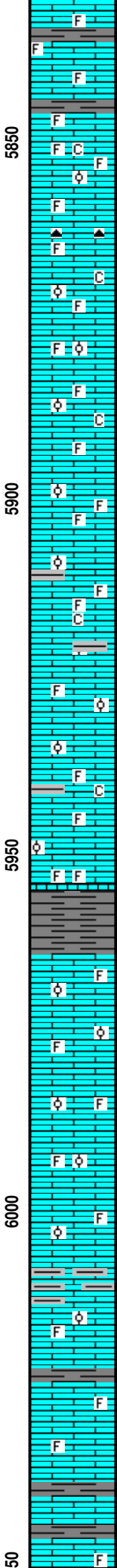
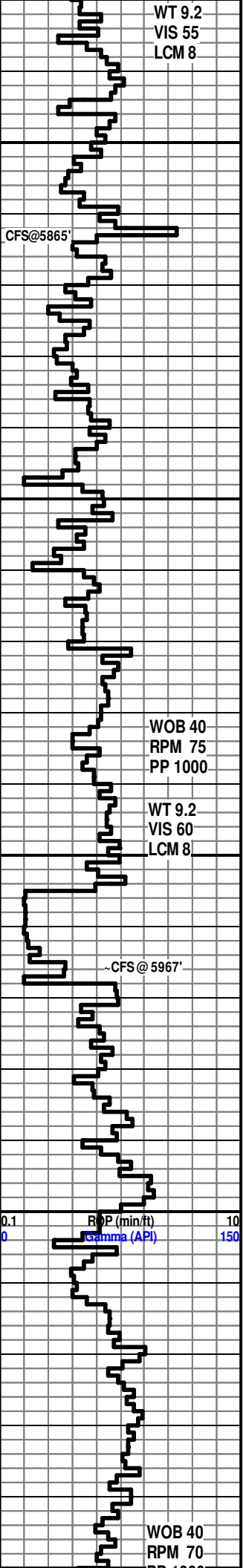
5557-5566 LS- TAN GRAYISH IP'S CRYPTO-XLN SLI TRS CHLK, PCKSTN & SUB LITHO, V/ DLL YEL FLUOR, NO CUT, NO VIS POR

5566-5569' LS- TRS WHT TO CRM CHLK & LT TN TRS CRYPTO-V/V/FN-XLN, TRS SUB CHLK, SUB SUCRO TO SUCRO, YEL TO BRIT YEL FLUOR, W/ FR TO GD STRMING CUTS, HVY TR PR TO TRS FR MICRO PP POR, PROB INTER-XLN POR IP'S

5569'-5600' LS- TAN GRAYISH IP'S TO TRS LT GRY, CRYPTO-V/V/FN-XLN, TRS SUB CHLKY, SUB SUCRO, PCKSTN TO SUB LITHO, DLL YEL FLUOR, NO CUT, NO VIS POR

5600'-5633' LS- LT TO MED GRY, SLI TO EXTREMELY SHLY, GRDNG TO V/ CALC SHALES, CRYPTO-XLN, SUB CHLKY & OR SHALY & PCKSTN. NO FLUOR. NO CUT. NO





5808-5846' PRED A/AB LS- FRGMNTD LIMES TAN TO GRY, MOTTLED IP, FN TO MED TR'S LRG GRNS(COMPOSED LM GRNS, FOSS FRGS & TRS OOLITES), GRNS COMPOSED CRYPTO-V/V/FN-XLN), MTRX SUB SUCRO & PCKSTN, SCATTERED TRS DLL YEL FLUOR, NO CUT, NO VIS POR

(NOTE INCREASE IN C1 AND DECREASE IN C2 & C3 AT 5852') →

5846-5856' - FRGMENTED LS, TRS TO HVY TRS WHT TO CRM CHLK, & TAN GRYISH IP'S FN TO MED TO CRS GRNS(COMPOSED LM GRNS, FOSS FRGS & OOLITES, TAN) (GRAINS COMPOSED CRYPTO-V/V/FN-XLN) MATRIX TRS CHLK, TRS SUB CHLK, SUB SUCRO TO SUCRO & PCKSTN, DLL YEL TO YEL & DLL GLDN YEL TO GLDN FLUOR, NO CUT, SCATTERED TRS POOR TO SLI TRS FAIR MICRO PP TO POSS INTER-XLN POR, TRS DK GY CHERT @ 5864'

5856- 5900 LS- FRGMENTED, SLI TRS WHT TO CRM CHLK & LT GRY TO TAN MOTT IP'S, FN TO MED TO CRS GRAINS (COMPOSED LM GRNS, FOSS FRGS & OOLITES, TAN & GRY), MTRX CHLK SUB CHLK, SUB SUCRO, PCKSTN, DLL YEL & DLL YEL GLDN FLUOR IP'S, NO CUT, NO VIS POR

5900-5930' FRGMENTED LS, TRS TO HVY TRS WHT TO CRM CHLK, & TAN GRYISH IP'S, FN TO MED TO CRS GRNS(COMPOSED LM GRNS, FOSS FRGS & OOLITES, TAN IN COLOR) (GRAINS COMPOSED CRYPTO-V/V/FN-XLN) MATRIX TRS CHLK, TRS SUB CHLK, SUB SUCRO TO SUCRO & PCKSTN, DLL YEL TO YEL & DLL GLDN YEL TO GLDN FLUOR, NO CUT, SCATTERED TRS POOR TO SLI TRS FAIR MICRO PPTO POSS INTER-XLN POR

5930-5956' LS- FRGMENTED, SLI TRS WHT TO CRM CHLK & LT GRY TO TAN MOTT IP'S, FN TO MED TO CRS GRAINS (COMPOSED LM GRNS, FOSS FRGS & OOLITES, TAN & GRY), MTRX CHLK SUB CHLK, SUB SUCRO, PCKSTN & TRS SH, DLL YEL & DLL YEL GLDN FLUOR IP'S, NO CUT, NO VIS POR

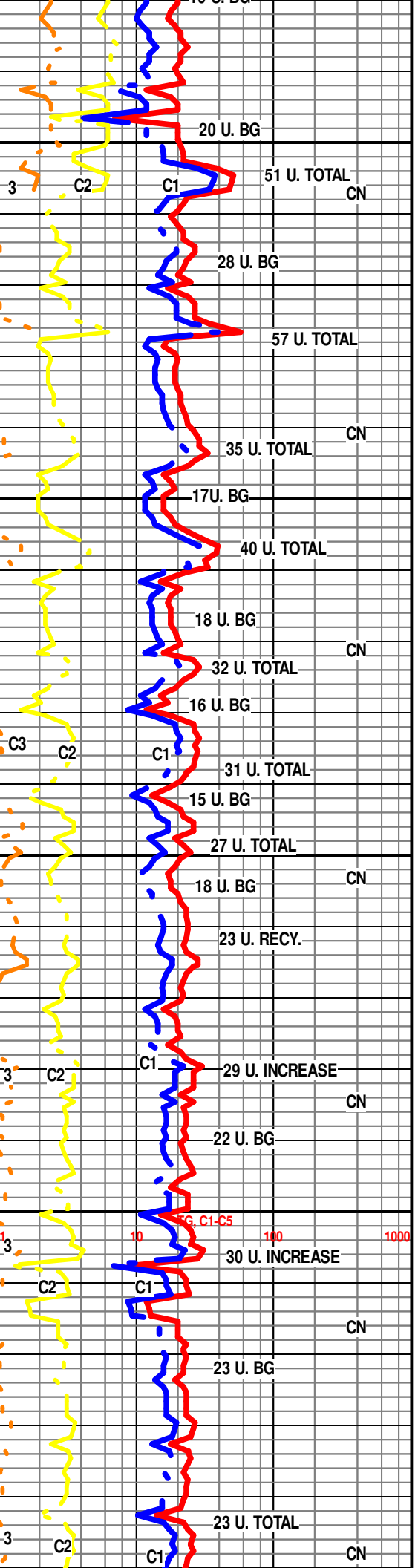
5956' - 5966' SH- MED GRY, SFT MUSHY

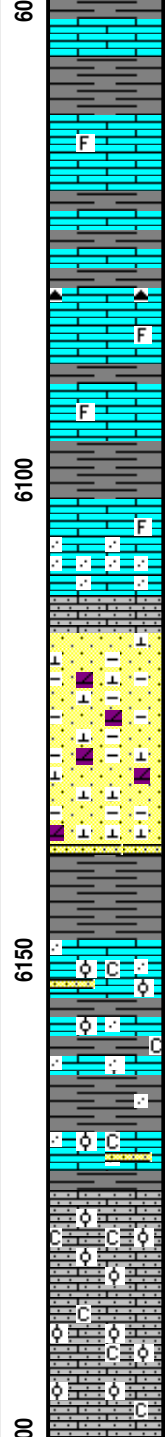
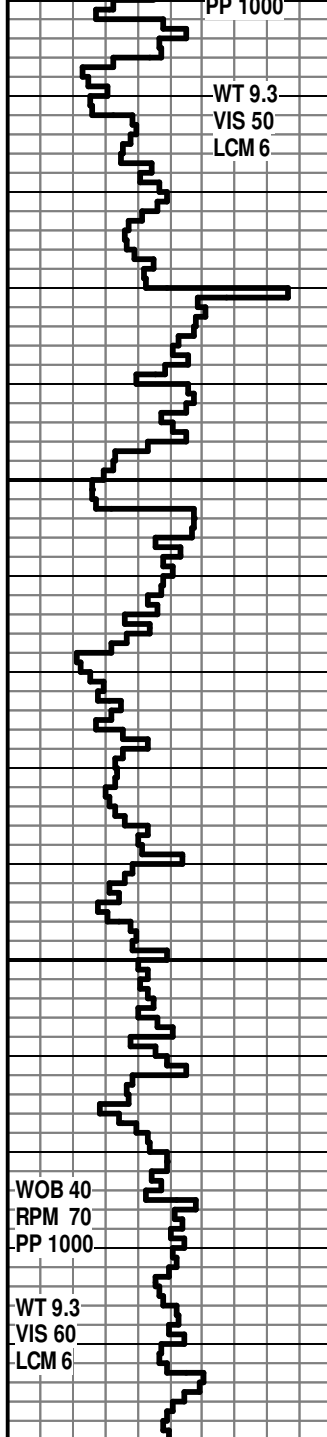
5966'-5980' LS FRGMNTD, TRS TO HVY TRS WHT TO CRM CHLK, & TAN GRYISH IP'S FN TO MED TO CRS GRNS(COMPOSED LM GRNS, FOSS FRGS & OOLITES, TAN) (GRAINS COMPOSED CRYPTO-V/V/FN-XLN) MATRIX TRS CHLK, TRS SUB CHLK, SUB SUCRO TO SUCRO & PCKSTN, DLL YEL TO YEL & DLL GLDN YEL TO GLDN FLUOR, NO CUT, SCATTERED TRS POOR TO SLI TRS FAIR MICRO PP TO POSS INTER-XLN POR

5980'-6019' LS- FRGMENTED, SLI TRS WHT TO CRM CHLK & LT GRY TO TAN MOTT IP'S, FN TO MED TO CRS GRAINS (COMPOSED LM GRNS, FOSS FRGS & OOLITES, TAN & GRY), MTRX CHLK SUB CHLK, SUB SUCRO, PCKSTN, DLL YEL & DLL YEL GLDN FLUOR IP'S, NO CUT, NO VIS POR

6019'- 6043' LS- LT GRY LT GREENISH GRY TO TANISH GRY, CRYPTO-XLN EXTEMLY SHLY GRDING TO EXTREMLY CALC SHALES, NO FLUOR, NO CUT, NO VIS POR, (NOTE: LARGE AMOUNTS OF FRGMNTED LIMESTONES STRINGS IN SAMPLES)

6043'- 6106 LS- LT GRY TO TAN, CRYPTO-XLN, PCKSTN & SUB LITHO, TRS W/ FOSS FRGS, V/ DLL YEL FLUOR, NO CUT, NO VIS POR





SH- LT TO MED TO V/ DK GRY, W/ABDT GRYISH GREEN TO LT GREEN

LS- LT GRY TO TAN, CRYPTO-XLN , PCKSTN & SUB LITHO, TRS W/ FOSS FRGS , V/DLL YEL FLUOR, NO CUT NO VIS POR

SH- LT TO MED TO V/ DK GRY, W/ ABDT GRYISH GRN TO LT GRN

6106-6116' LS & SH LT GRYTO GY LT TN, CRYPTO-XLN, PCKSTN & SUB LITHO, TRS W/ FOSS FRGS, V/ DLL YEL FLUOR, NO CUT NO VIS POR, SLI TO V/ QURTZ SNDY IP'S, V/V/FN TO V/FN GRN QURTZ, ANG TO SUB ANG

6116- 6139' SS- QURTZ GRNS WHT TO CRM GRYISH IP, V/V/FN- TO FN GRN, ANG TOS-ANG, POORLY SORTED, CLAY FILLED, SLI TO FRLY CALC & DOLOMITIC , DLL LT YEL FLUOR, NO CUT, HVY TRS TO TRS FR MICRO PP POR IP'S & POSS INTER-GRN POR IPS, BECOMING SANDY SILTST IP'S & BECOMING MORE CALC & DOLMITIC W/ DEPTH

SH- YEL, GREEN, GY PINK, VERIGATED SHALES & LMST CONGLOMERATE

VERIGATED SHALES & LS CONGL, W/ ABDT LS LT GRN, LT GRY & TAN GRYISH IPS, CRYPTO-VV/FN-XLN, V/ TO EXTREMELY MICRO OOL & SH TO FRLY QURTZ SANDY, V/V/FN -GRN, ANG, MATRIX SUB CHLK, SUB SUCRO TO SUCRO, DLL LT YEL FLUOR, NO CUT, NO VIS POR

ST.GEN . 6175' (-3889)

6175-6200' LS- CRM TO LT TAN, GRYISH IP, CRYPTO-VV/FN-XLN, V/ TO EXTREMELY MICRO OOL & SLI TO FRLY SANDY, V/V/FN GRN . ANG, MATRIX SLI TRS SUB CHLKY, SUB SUCRO TO SUCRO, DLL LT TO TR LT YEL FLUOR, NO CUT, NO VIS POR

R.T.D. @ 6200' AT

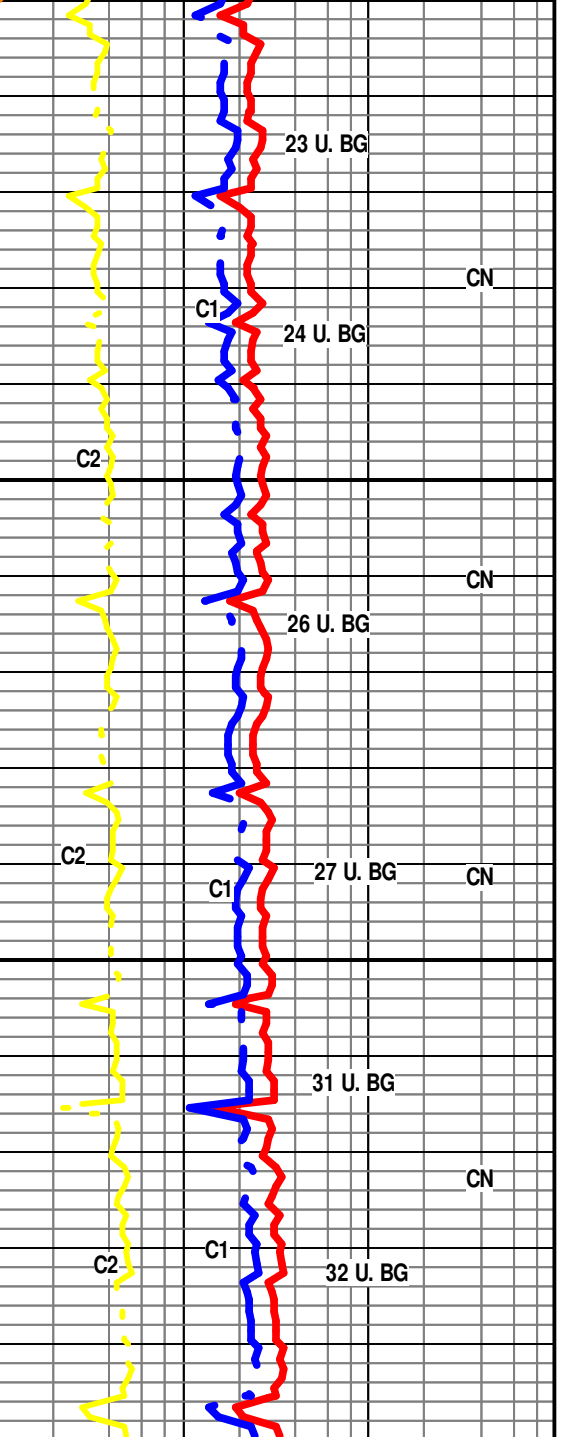
CIRC F/ SAMPLES

SHORT TRIP 12 STANDS

CIRC TO CLEAN HOLE 2 HRS

TRIP OUT F/ LOGS / WEATHERFORD / LIBERAL

MUD CK	MUD CK	MUD CK
10/25	10/26	10/27
3252'	4200'	4700'
WT 9.3	WT 9.5	WT 9.2
VIS 50	VIS 53	VIS 58
PV 18	PV 17	PV 20
YP 12	YP 9	YP 13
GS 8/18	GS 4/18	GS 7/26
FIL 7.0	FIL 8.4	FIL 7.6
PH 10.5	PH 9.5	PH 11.0
ALK 1.2	ALK 0.6	ALK 2.2
CHL 6K	CHL 5K	CHL 3.5K
CAL 80	CAL 40	CAL 60
LCM 4.0	LCM 5.0	LCM 5.

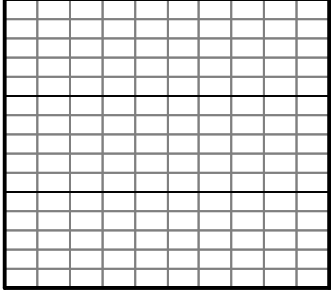


R.T.D. @ 6200'

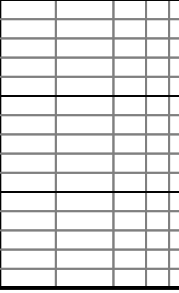
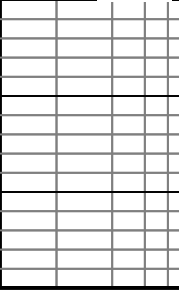
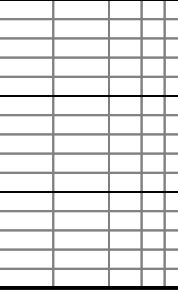
LOG COMPLETED BY EDWIN H. GRIEVES
TIM HEDRICK

SAMPLES WILL BE DELIVER ED TO KGS

MUD CK	MUD CK	MUD CK
10/29	10/30	10/31
5353'	5650'	5949'
WT 9.2	WT 9.2	WT 9.2
VIS 64	VIS 50	VIS 60
PV 21	PV 20	PV 24
YP 12	YP 12	YP 19
GS 8/18	GS 6/19	GS 7/23
FIL 7.6	FIL 5.6	FIL 6.0
PH 9.0	PH 10.5	PH 10.0
ALK 1.0	ALK 1.8	ALK 1.9
CHL 4 K	CHL 3K	CHL 6K
CAL 80	CAL 40	CAL 60
LCM 7.0	LCM 8.0	LCM 8.0



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Cement Job Summary

Job Number: Lib1610222309		Job Purpose: 01 Surface	
Customer: Kenneth W. Cory LTD	Date: 10/22/2016		
Well Name: Huff	Number: 1-12	API/UWI:	
County: Meade	City:	State: Kansas	
Cust. Rep:	Phone:	Rig Phone:	
Legal Desc:	Rig Name:		
Distance: 50 miles (one way)	Supervisor: Hector Esqueda		

Employees:	Emp. ID:	Employees:	Emp. ID:
Hector E		Carlos I	
James P		Ramon E	
Equipment:			
956-841		788-553-5	

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	12 1/4	100%	1240	1,500	TAIL CEMENT	
OPEN HOLE	12 1/4	100%	0	1,240	LEAD CEMENT	
OPEN HOLE	12 1/4			0		
OPEN HOLE	12 1/4					
Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
TOTAL CASING	8 5/8	24	8.097	J-55	0	1,500
SHOE	8 5/8	24	8.097	J-55	1,458	1,500

Materials - Pumping Schedule						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	FRESH WATER	10	8.30	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	410	12.10	2.55	14.86	
Add. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	1156.2	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	205.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Tail 1	CLASS A COMMON	200	15.62	1.19	5.20	
Add. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	1.88	% BWOC	376.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	50.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 1	Displacement	92.85063017	8.33	n/a	n/a	

Job Number: Lib1610222309		Job Purpose: 01 Surface	
Customer: Kenneth W. Cory LTD	Date: 10/22/2016		
Well Name: Huff	Number: 1-12	API/UWI:	
County: Meade	City:	State: Kansas	
Cust. Rep:	Phone:	Rig Phone: 0	
Distance: 50 miles (one way)	Supervisor: Hector Esqueda		



Cement Job Summary

TIME AM/PM	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	CASING	ANNULUS	VOLUME	RATE (BPM)	
15:30					Arrived to location
20:00					rig up iron
20:30					prime up pump
21:51	1700				pressure test to 1700 PSI
21:54	40		5	4	start the 5 bbl spacer
21:56	100		186	5	start lead cement @ 12.10 #
22:12					switch to second tear of lead cement
22:13	110			6	increased rate to 6BPM
22:29	220		42	6.5	start tail cement @ 15.62#
22:37					shut down (drop plug) wash up tub
22:40	40		93	5	start the 93 bbl displacement
22:45	20		20	5.0	20 bbl gone
22:47	70		30	5.1	30 bbls gone
22:50	130		40	5.1	40 bbls gone
22:52	200		50	4.6	50 bbls gone
22:54	290		60	4.5	60 bbls gone
22:56	380		70	4.3	70 bbls gone
22:59	450		80	4.6	80 bbls gone
23:02	480		90	3.0	90 bbls gone
23:09	950		93		landed plug @ 950 PSI
					released pressure to make sure the floats were holding and they were got about 1/4 of a bbl back ..
					50 bbls of full cement returns circulated to the surface
					rig down released from location @ 00:24



Cement Job Summary

Job Number: LIB1611021642/1		Job Purpose	
Customer:	Kenneth W. Cory LTD	Date:	11/2/2016
Well Name:	Huff	Number:	1-12
County:	Meade	City:	
Cust. Rep:	JUNIOR BINDER	State:	Kansas
Legal Desc:	SEC 12-34-28	Rig Name:	Duke #1
Distance	50 miles (one way)	Supervisor	Aldo Espinosa
Phone:		Rig Phone:	

Employees:	Emp. ID:	Employees:	Emp. ID:
ALDO ESPINOZA			
GERARDO BURCIAGA			
CRISTIAN CAMACHO			
Equipment:			
984-			
994-550			
1080-842 870-744			

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	7 7/8	25%	5400	6,209		
OPEN HOLE	7 7/8			5,400		
OPEN HOLE	7 7/8					
OPEN HOLE	7 7/8					
Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
PREVIOUS CASING	8 5/8	24	8.097	J-55	0	1,500
TOTAL CASING	5 1/2	15.5	4.95	J-55	0	6,200
STAGE TOOL	5 1/2	15.5	4.95	J-55		3,404
SHOE	5 1/2	15.5	4.95	J-55	6,154	6,200

Materials - Pumping Schedule						
STAGE #1						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	LC SPACER	10	8.50	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS H	200	14.63	1.57	7.10	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CLC-KOL	KOL-SEAL	5	lb/sk	1000.0	lbm	
CFL-330	FLUID LOSS ADDITIVE - LOW DENSITY SLURRIES	0.47	% BWOC	94.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 3	Displacement	146.5646163	0.00	n/a	n/a	
STAGE #2						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Stg 2 Spacer 1	HIVIS SWEEP	12	8.50	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Stg 2 Lead 1	ALLIED 40/60/4 POZ BLEND - CLASS A	50	13.84	1.41	6.80	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
Stg 2 Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS H	155	14.63	1.57	7.10	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CLC-KOL	KOL-SEAL	5	lb/sk	775.0	lbm	



Cement Job Summary

CFL-330	FLUID LOSS ADDITIVE - LOW DENSITY SLURRIES	0.47% BWOC	72.9 lbm
Fluid Name	Description	Rqstd Qty	Density
Stg 2 Disp. 1	Displacement	80.92232796	0.00
			Yield
			n/a
			Water (gal/sk)
			n/a

Job Number: LIB1611021642/		Job Purpose	
Customer: Kenneth W. Cory LTD		Date: 11/2/2016	
Well Name: Huff		Number: 1-12	
County: Meade		City:	
Cust. Rep: JUNIOR BINDER		State: Kansas	
Phone:		Rig Phone: 0	
Distance 50 miles (one way)		Supervisor Aldo Espinosa	

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	AM/PM	CASING	ANNULUS	VOLUME	
11/2/2016					DATE
1230pm					on location
200pm					casing on bottom
310pm					safety meeting
320pm	2000		1	1	pressure test lines
322pm	300		10	3	pump 10 bbl LC spacer
332pm	250		56	4	200sk/56 bbl cement
358pm					drop first plug, wash pumping lines to pit
408pm				3	start displacement
412pm	80		20	5	20 bbl gone
416pm	80		20	5	40 bbl gone
419pm	120		20	5	60 bbl gone, swap to mud
421pm	180		15	2.5	75 bbl slow down to 2.5 bpm to go thru
					DV tool
426pm	170		10	4	85 bbl get back to normal rate
431pm	220		15	4	100 bbl gone
436pm	500		20	4	120 bbl gone
440pm	650		10	2.5	130 bbl slow down to 2.5 bpm
442pm	920-1460		16	2.5	146 bbl bump plug
448pm	0				check floats
450pm					drop opening tool, give 30 min
520pm					pressure up to open tool, 740 psi
522pm					brake circulation
530pm					swap to rig
					SECOND STAGE
900pm	200		10	4	10 bbl havis sweep
910pm	30		13	2	cement rat & mouse holes
918pm	180		43	4	155sk/43.4 bbl cement
938pm	150				release plug
939pm	180			3	start displacement
	500		80	5	displace 81 bbl water
1006pm	680-2500		1	2.5	bump plug
1008pm	0				check floats
1030pm					rig down
1100pm					leave location
					good circulation during entire job
					thanks

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Pat Apple, Chairman
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

March 09, 2017

Daniel Cory
Kenneth W. Cory, Ltd.
6750 W. LOOP SOUTH, STE 1050
BELLAIRE, TX 77401-4198

Re: ACO-1
API 15-119-21398-00-00
HUFF LAND 1
SE/4 Sec.12-34S-28W
Meade County, Kansas

Dear Daniel Cory:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/22/2016 and the ACO-1 was received on March 09, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department