



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1113667
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: _____



1113667

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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
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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	Chisholm Partners II, LLC
Well Name	Barrett 1-10
Doc ID	1113667

All Electric Logs Run

Microresistivity
Dual Induction
Borehole Compensated Sonic
Dual Compensated Porosity

Form	ACO1 - Well Completion
Operator	Chisholm Partners II, LLC
Well Name	Barrett 1-10
Doc ID	1113667

Tops

Name	Top	Datum
Hebner	1842	-522
Toronto	1859	-539
Douglas	1873	-553
Lansing	1998	-678
Kansas City	2150	-830
Cherokee	2495	-1175
Mississippian	2614	-1294
Kinderhook	2819	-1499
Hunton	3017	-1697
Maquoketa SH	3181	-1861
Makuoketa Dolomite	3273	-1953
Viola	3318	-1998
Simpson	3397	-2077
Arbuckle	3471	-2151

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 08, 2013

Claire Keneally
Chisholm Partners II, LLC
1160 EUGENIA PL
SUITE 100
CARPINTERIA, CA 93013

Re: ACO1
API 15-143-20010-00-00
Barrett 1-10
NE/4 Sec.10-12S-01W
Ottawa County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Claire Keneally
(785) 260-0090
ckeneally@gmail.com

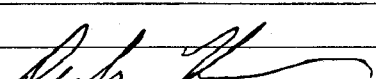
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6376

Date	2-5-13	Sec.	10	Twp.	12	Range	1	County	Ottawa	State	Ks	On Location		Finish	3:00 AM
Lease	Barrot			Well No.	1-10			Location	Soloman Rd + I-70, 7N to K-18 Hwy						
Contractor	Southwind #1			Owner	2W, 18S 40S										
Type Job	Plug			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	7 7/8"			T.D.	3520'			Charge To	Chisholm partners						
Csg.				Depth				Street							
Tbg. Size	4 1/2" D.P.			Depth	3466'			City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered	125 SX 60/40 4% Gel						
Meas Line				Displace	H2O/mud			V4 # Flo-seal							
EQUIPMENT								Common	75						
Pumptrk	16	No.	Cementer	Travis			Helper	Poz. Mix	50						
Bulktrk	1	No.	Driver	Billy			Driver	Gel.	4						
Bulktrk	P.O.	No.	Driver	Rick			Driver	Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal	31#						
Mouse Hole								Koi-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
	3466' - 35 SX							Handling	129						
	272' - 35 SX							Mileage							
	60' - 25 SX							FLOAT EQUIPMENT							
	Rathole w/ 30 SX							Guide Shoe							
	Cement did Circulate.							Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge	plug						
								Mileage	92						
								Tax							
								Discount							
								Total Charge							
X Signature															

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6069

Date	1-30-13	Sec.	10	Twp.	12	Range	1	County	Ottawa	State	Ks	On Location		Finish	7:15 AM
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Lease **Barrett** Well No. **1-10** Location **Solomon Rd + I-70, 7N to K-18**

Contractor **Southwind #1** Owner **212 V85 W/S**
To Quality Oilwell Cementing, Inc.

Type Job **Surface** You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size **12 1/4"** T.D. **224'** Charge To **Chisum Partners II LLC**

Csg. **8 5/8"** Depth **222'** Street **1160 Eugenia PL**

Tbg. Size Depth City **Carpinteria** State **Ca. 93013**

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. **15'** Shoe Joint **15'** Cement Amount Ordered **200 SX Common 3% CC**

Meas Line Displace **13** **2% Gel Used 150**

EQUIPMENT

Pumptrk **16** No. Cementer **Travis** Common **150**

Bulktrk **14** No. Driver **Lannie W.** Poz. Mix

Bulktrk **11** No. Driver **Rick** Gel. **3**

JOB SERVICES & REMARKS

Remarks: Halls

Rat Hole Salt

Mouse Hole Flowseal

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

Cement did Circulate. Sand

Handling **200**

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge **Surface**

Mileage **92**

Signature **[Signature]** Tax

Discount

Total Charge

JUSTIN D. CARTER
CONSULTING GEOLOGIST

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

Well Name: BARRETT 1-10
Location: C, NE, NE Sec. 10 - 12S - 1W Ottawa Co, KS
License Number: 15-143-20010-0000
Spud Date: 01/29/13
Surface Coordinates: 660' FNL & 660' FEL
Region: Wildcat
Drilling Completed: 02/05/13

Bottom Hole
Coordinates:
Ground Elevation (ft): 1310' **K.B. Elevation (ft):** 1320'
Logged Interval (ft): 1600' **To:** 3520' **Total Depth (ft):** 3520'
Formation: MAQUOKETA
Type of Drilling Fluid: Chemical Mud

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

OPERATOR

Company: CHISOLM PARTNER II, LLC
Address: 1160 Eugenia Pl., Suite 100
Carpinteria, CA 93013
Co. Geo.: Mr. John Horne

GEOLOGIST

Name: Justin D. Carter
Company:
Address: 5945 Westridge Dr.
Great Bend, KS 67530
Home: 620-603-6399, **Cell:** 620-655-1187

Comments

Drilling Contractor: Southwind Drilling, Inc. Rig #1
Tool Pusher: Derby Kever

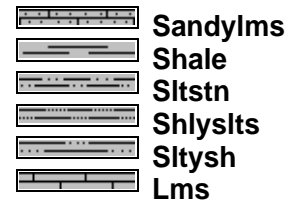
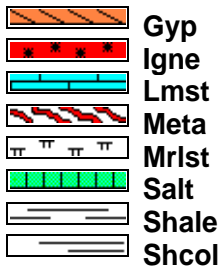
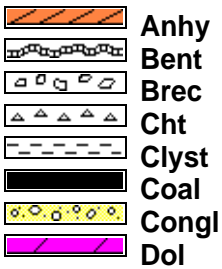
8 5/8" surface casing set at 222'

Mud: Andy's Mud
Engineer: Ken Rupp

Gas Detector: Earth Tech OGL, Inc.

Open-Hole Loggers: Pioneer Wireline

ROCK TYPES

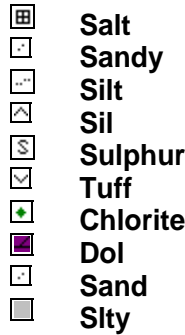


ACCESSORIES

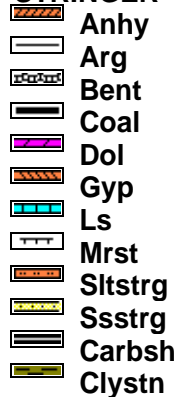
FOSSIL



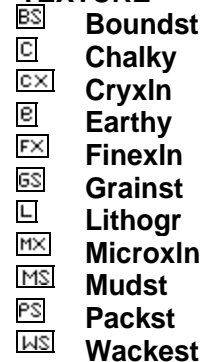
MINERAL



STRINGER



TEXTURE

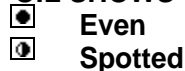


OTHER SYMBOLS

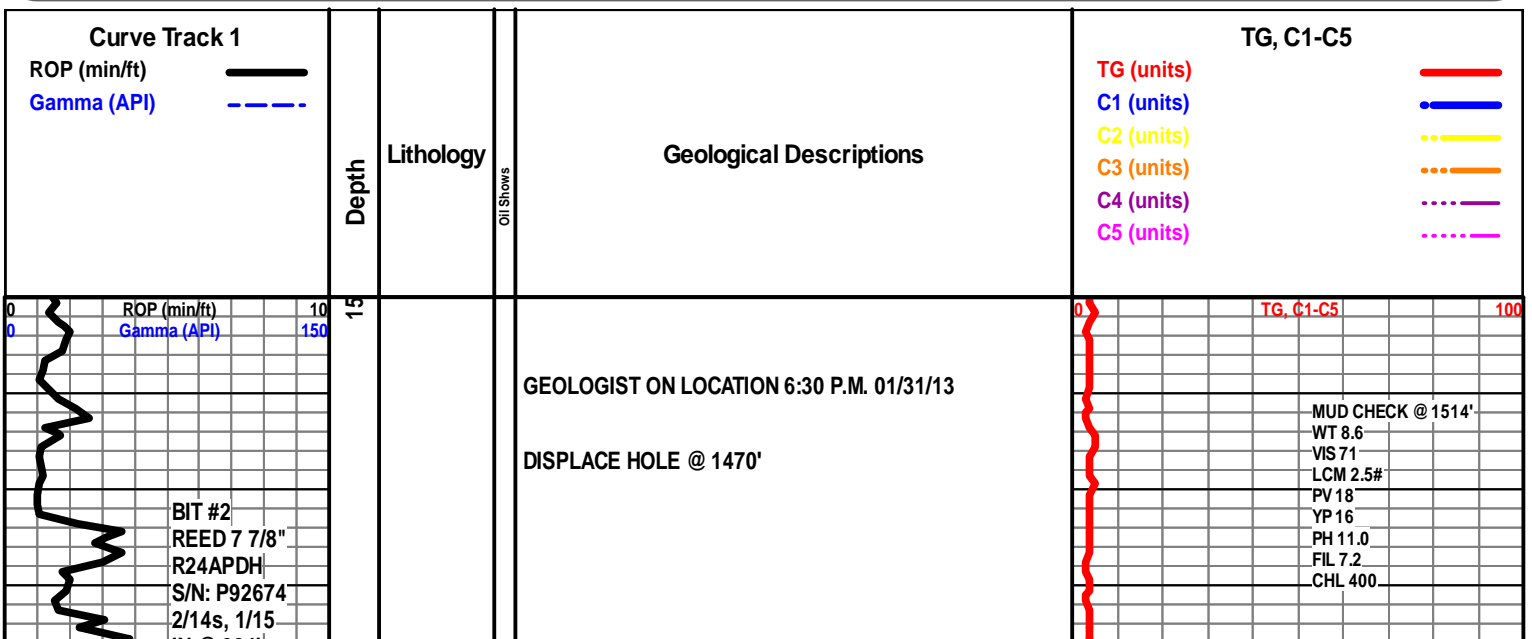
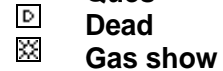
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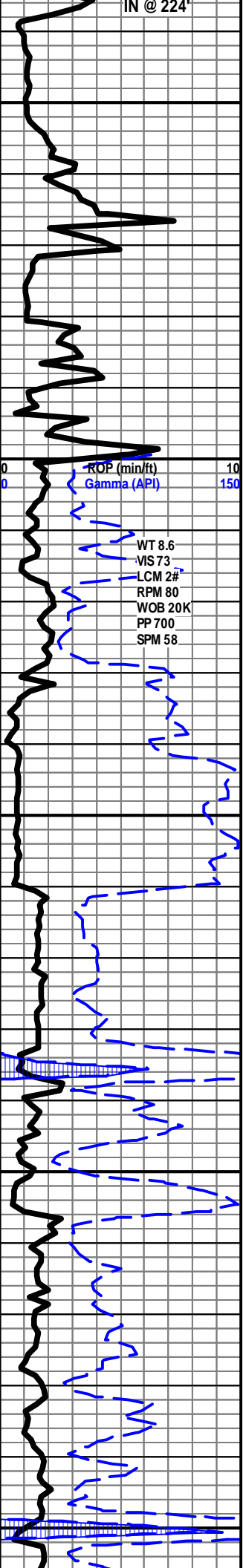


OIL SHOWS



Ques

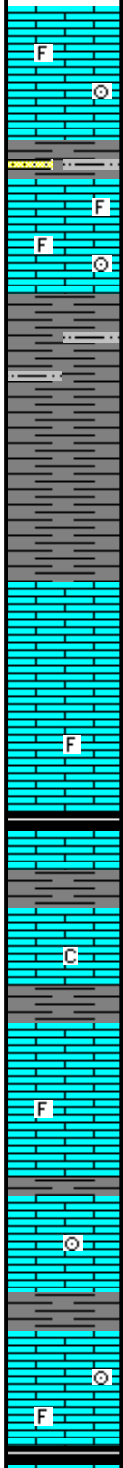




1550
1600
1650
1700
1750

ROP (min/ft)
Gamma (API)

WT 8.6
VIS 73
LCM 2#
RPM 80
WOB 20K
PP 700
SPM 58



LS- WHT LT CRM, BRITT, VF-XLN, RE-XLN MTRX IP TO TR SUB-CHLKY MTRX, IMBED FOSS FRAGS IP W/ SM CALC XLS, NO FLO, NO VIS POR

SLTY SS- LT GY, TT TO FRI IP, F/VF-GRNS, FR SRT, CALC CMNT, SUB-ANG GRNS, DISS BLK SH IP, TR SLTST, NO FLO, FR INTER-GRN POR THRU, NS

LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO IP, FOSS FRAGS SCAT THRU, TR INTERBED GY SH, NO FLO, TR INTER-FOSS POR, NS

SH- DK GY, FRM, SLTY, TR SLTST

SH- DK GY, SFT, GMMY IP

SH- DK GY, SFT GMMY IP TO SFT/FRM SLTY IP

LS- LT GY LT BRN, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR IMBED SH, NO FLO, NO VIS POR

LS- LT TN CRM, HRD DNS, F/VF-XLN, RE-XLN MTRX IP TO TR SUCRO MTRX, TR FINE CALC XLS, TR FOSS FRAGS, NO FLO, TR INTER-XLN POR, NS

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

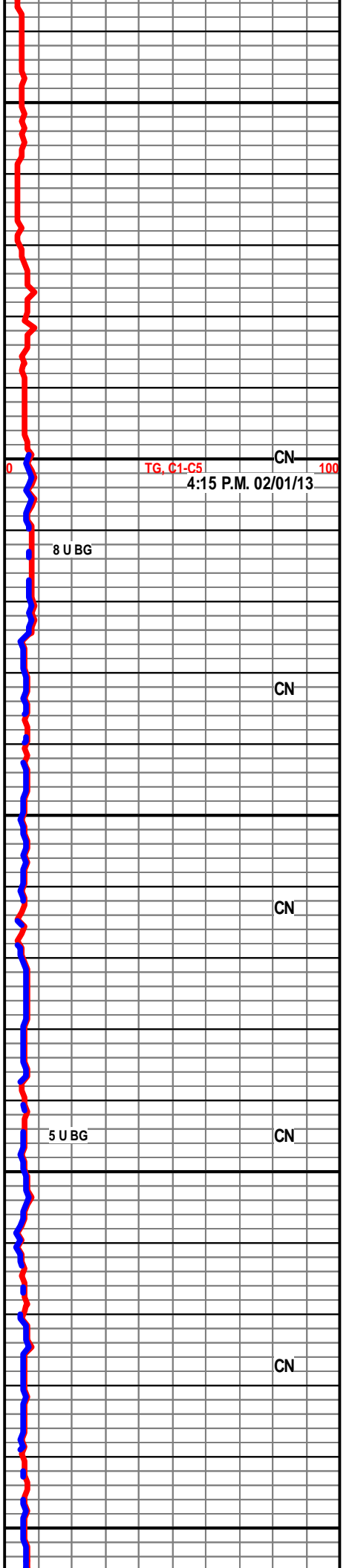
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LS- CRM LT GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, IMBED DK GY FOSS FRAGS IP, NO FLO, NO VIS POR

LS- LT GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR DK GYFOSS FRAGS W/ TR CRIN, NO FLO, NO VIS POR

T.O.H. @ 1733' FOR PLUGGED JET

LS- LT TN, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR FINE CALC XLS, TR CRIN W/ DK GY FOSS FRAGS IP, NO FLO, NO VIS POR



TG, C1-C5
4:15 P.M. 02/01/13

8 U BG

5 U BG

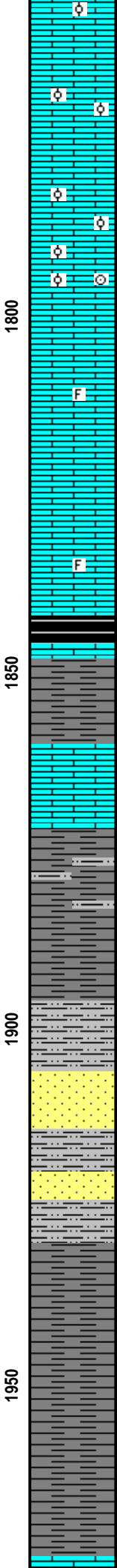
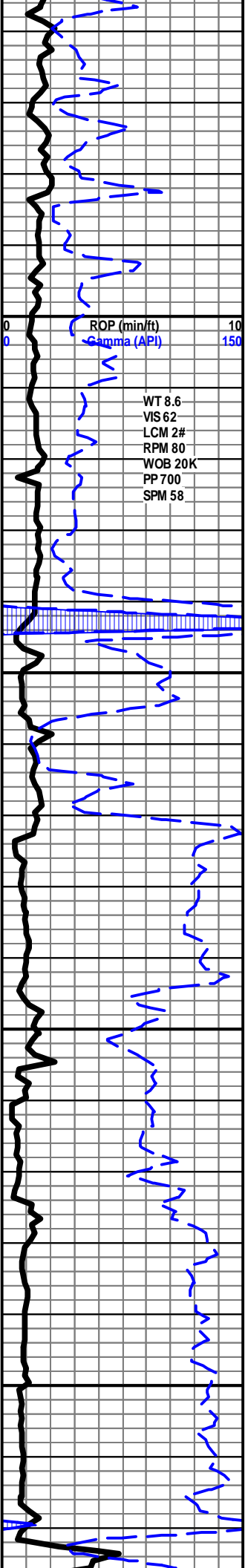
CN 100

CN

CN

CN

CN



LS- CRM, HRD, F/VF-XLN, GRST, SM OOL SCAT THRU, NO FLO, NO VIS POR

LS- CRM, HRD, F-XLN, GRST, SM OOL SCAT THRU, NO FLO, PR INTER-GRN POR THRU, NS

LS- CRM LT TN, HRD, F-XLN, GRST, SM OOL IP, NO FLO, TR INTER-GRN POR, NS

LS- BFF LT TN, HRD DNS IP, F/VF-XLN, GRST IP TO RE-XLN MTRX IP, OOL IP, TR CRIN, NO FLO, TR INTER-OOL POR TO NO VIS POR IP, NS

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR LG FOSS FRAGS, CORSE/F CALC XLS IN CLUSTER, TR YEL MIN FLO, NO VIS CUT, TR INTER-XLN POR IN CALC XLS TO POSS FRAC POR, TR BLK/BRN RESIDUAL STAIN, NS

LS- LT CRM CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-SUCRO MTRX, TR FINE CALC XLS, NO FLO, NO VIS POR THRU TO TR MICRO PP POR, TR BRN/BLK RESIDUAL STAIN, NS

LS- LT CRM, HRD, F/VF-XLN, GRST IP TO SUB-SUCRO MTRX IP, SM OOL IMBED IP, NO FLO, PR INTER-GRN POR IP, NS

HEEBNER 1842' (-522')

SH- LT GRN, FRM TO SFT IP, LMY, WXY TEXT IP

TORONTO 1859' (-539')

LS- OFF WHT, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-CHLKY, NO FLO, NO VIS POR

DOUGLAS 1873' (-553')

SH- DK GY, FRM TO BRITT, SLTY, F-GRN SLTST IP

SH- DK GY LT GY, SFT, SLTY IP TO LMY IP

SLTST- GRYSH GRN, TT TO FRI IP, F-GRNS, DISS BLK SH IPTO TR MICA SH, NO FLO, NO VIS POR

SS- GRN, TT, F/VF-GRNS, GD SRT, SUB-RND GRNS, CALC CMNT, TR DISS BLK SH, NO FLO, NO CUT, NO VIS POR

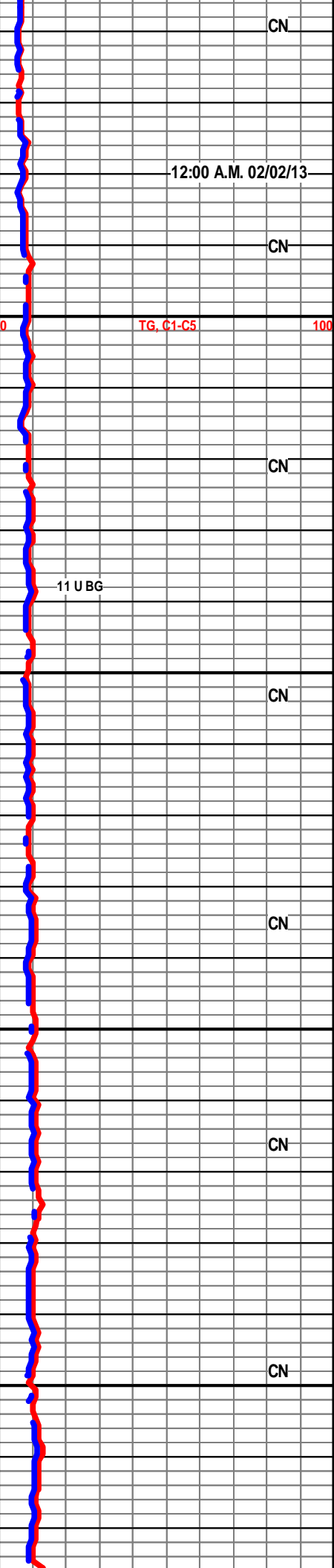
SLTST- LT GY, TT, F-GRNS, DISS BLK SH IP, NO FLO, NO VIS POR

SH- GY DK GY, SFT, SLTY IP TO LMY IP, SLI GMMY IP

SH- DK GY, SFT, LMY TO TR SLTY, SLI GMMY IP

SH- GY DK GY, A/A

LS- LT BRN BRN HRD DNS VF/CRYPTO-XLN RE-XLN MTRX THRU NO



CN

12:00 A.M. 02/02/13

CN

TG, C1-C5 100

CN

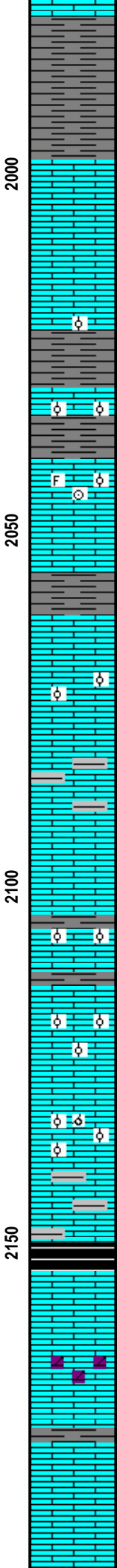
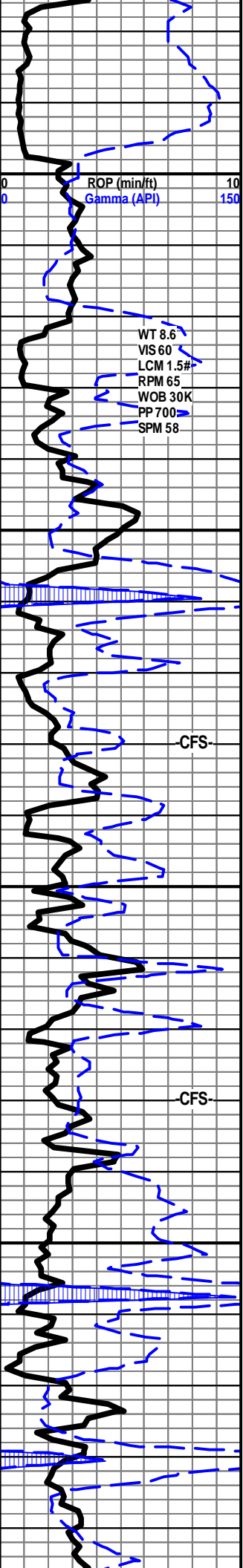
11 U BG

CN

CN

CN

CN



LS- LT BRN BRN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

SH- RD GY YEL GRN, SFT, ARG, GMMY

LANSING 1998' (-678')

LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, POSS FRAC POR TO NO VIS POR THRU, ONE SAMPLE W/ BLK RESIDUAL STAIN, NO ODOR

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR IMBED OOL, NO FLO, NO VIS POR

LS- GY LT BRN, HRD DNS, VF-XLN, RE-XLN MTRX, IMBED OOL IP, NO FLO, NO VIS POR

LS- CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, TR CORSE/F CALC XLS ALONG FRACS, TR OOL, TR CRIN, TR FOSS FRAGS, NO FLO, INTER-XLN POR IN CALC XLS TO POSS FRAC POR, NS

LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR OOL, NO FLO, NO VIS POR

LS- LT CRM, BRITT, F/VF-XLN, SUB-SUCRO TO SUCRO MTRX THRU, IMBED OOL IP, TR MED CALC XLS, NO FLO, PR INTER-XLN POR SCAT THRU, NS

LS- LT BRN TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, IMBED SH IP, NO FLO, NO VIS POR

LS- CRM LT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP, MED CALC XLS IP, NO FLO, PR INTER-XLN POR IN CALC XLS TO NO VIS POR THRU, NS

LS- TN, HRD DNS, VF-XLN, RE-XLN MTRX, IMBED DK GY SH IP, OOL IP, NO FLO, NO VIS POR

LS- CRM, HRD TO BRITT IP, VF-XLN, SUB-SUCRO MTRX TO GRST, OOL SCAT THRU, NO FLO, NO CUT, TR INTER-XLN TO INTER-OOL POR TO NO VIS POR THRU, NS

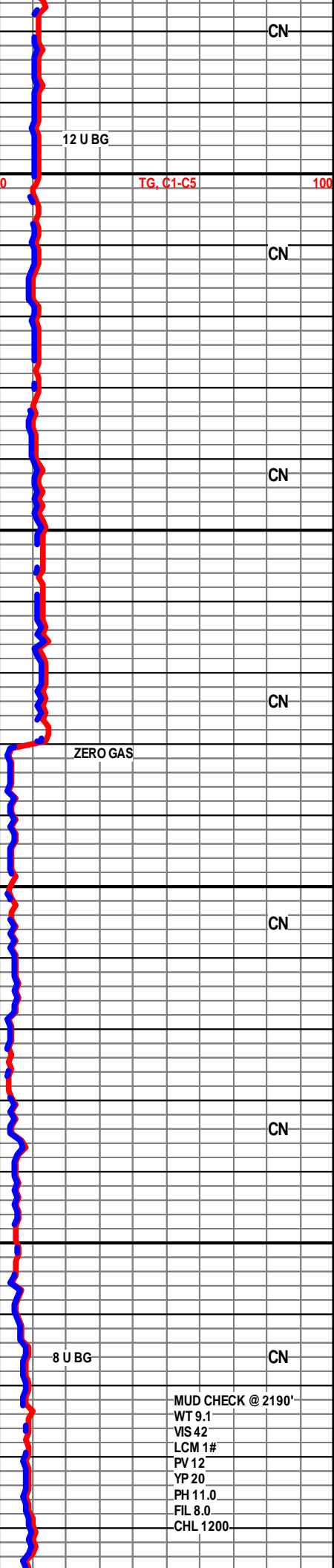
LS- BFF WHT, BRITT TO HRD IP, VF-XLN, SUB-SUCRO MTRX THRU, OOL IMBED THRU, NO FLO, TR OOLMD POR TO NO VIS POR IP, NS

KANSAS CITY 2150' (-830')

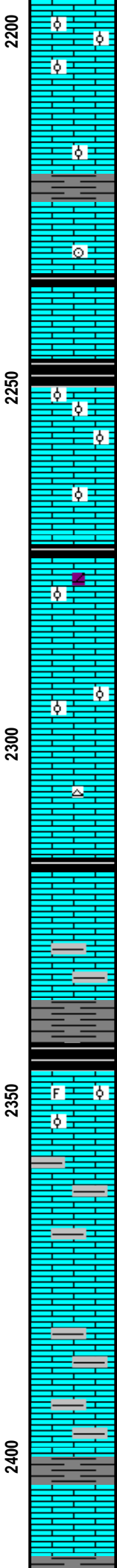
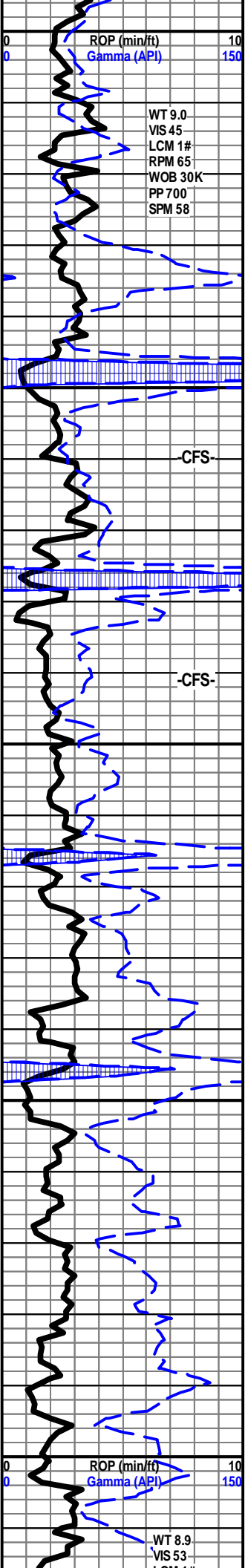
LS- LT CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, FINE CALC XLS SCAT THRU, NO FLO, TR INTER-XLN POR TO POSS FRAC POR

LS- LS CRM BFF, HRD DNS, VF-XLN, RE-XLN MTRX THRU, FINE CALC XLS IN CLUSTERS SCAT THRU, DOLOMITZ LS IP, NO FLO, FRAC POR, NS

LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR CALC XLS, NO FLO, NO VIS POR



MUD CHECK @ 2190'
 WT 9.1
 VIS 42
 LCM 1#
 PV 12
 YP 20
 PH 11.0
 FIL 8.0
 CHL 1200



LS- LT GY BRN, HRD, F/VF-XLN, SUB-SUCRO MTRX IP TO RE-XLN IP, OOL IP, TR SFT WHT CHLK, NO FLO, NO VIS CUT, TR INTER-OOL POR TO TR INTER-XLN POR, TR BLK RESIDUAL STAIN, NS

LS- BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- BRN, HRD, VF-XLN, RE-XLN MTRX IP, LG CRIN FRAGS IP, NO FLO, TR INTER-FOSS POR TO NO VIS POR THRU, NS

LS- CRM TN, BRITT, VF-XLN, RE-XLN MTRX IP TO TR SUB-SUCRO, IMBED OOL IP, NO FLO, NO VIS CUT, TR INTER-XLN POR TO TR INTER-OOL POR, NS

LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-SUCRO, TR IMBED OOL, NO FLO, NO VIS POR

LS- TN CRM, MOTT, BRITT TO HRD IP, F/VF-XLN, GRST, TR IMBED OOL, TR DOLOMITZ LS, NO FLO, NO CUT, PR/FR INTER-XLN POR SCAT THRU TO TR INTER-OOL POR, NS

LS- LT TN CRM, HRD TO BRITT, VF-XLN, SUB-SUCRO MTRX IP TO GRST IP, OOL IP, NO FLO, PR INTER-OOL POR IP TO NO VIS POR IP, NS

LS- CRM BFF, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR CHRT, NO FLO, NO VIS POR

LS- TN CRM, HRD DNS TO BRITT IP, VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN, NO FLO, TR INTER-XLN POR TO NO VIS POR THRU, NS

LS- BFF TN, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

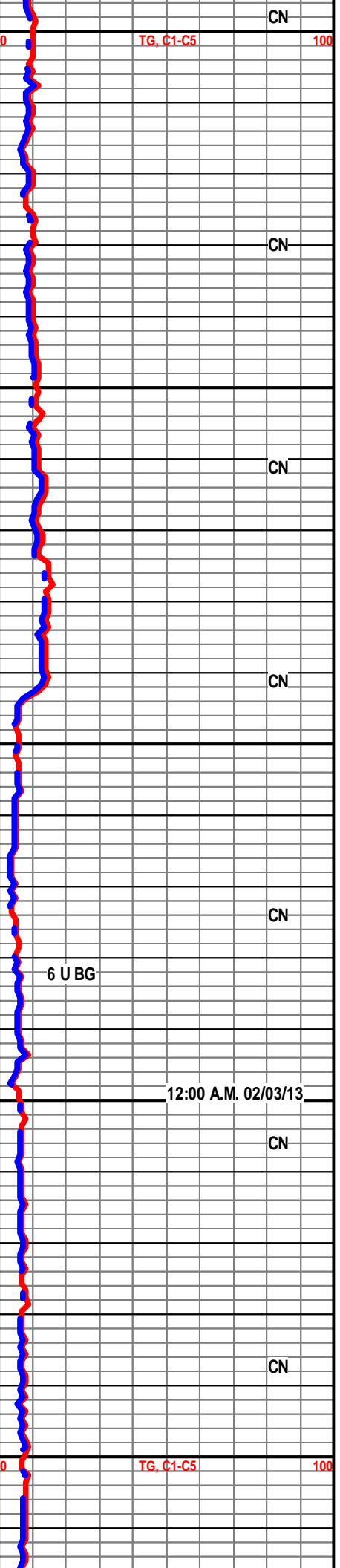
LS- DK TN, BRITT, F/VF-XLN, SUB-SUCRO MTRX THRU, IMBED OOL TO LG IMBED FOSS FRAGS IP, NO FLO, FR INTER-XLN POR IP TO FR INTER-FOSS POR IP, NS

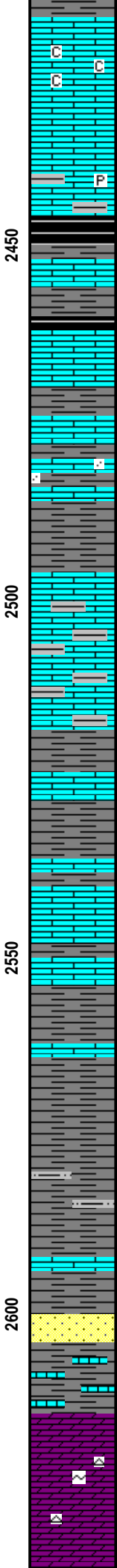
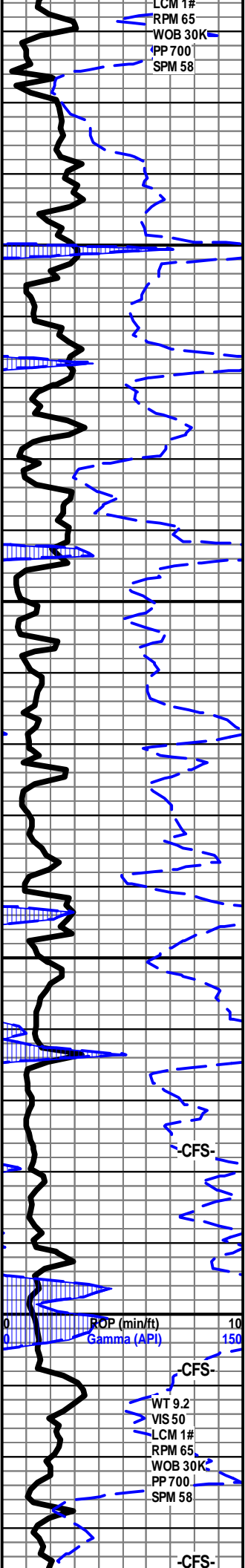
LS- GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR IMBED SH, NO FLO, NO VIS POR

LS- DK GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- GY DK TN, HRD DNS, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO IP, IMBED SH IP, NO FLO, NO VIS POR

LS- BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR





LS- OFF WHT, BRITT, VF-XLN, CHLKY MTRX THRU, SFT WHT CHLK IP, NO FLO, NO VIS POR

LS- TN LT GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU TO TR SUB-SUCRO, TR PYR, NO FLO, NO VIS POR

SH- GRN LT GY, SFT, CARB IP

LS- GY TN, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

INTERBED SH & LS- LT GY, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR, TR FRI GRN SS

SH- RD YEL GRN, SFT, LMY, GMMY IP

CHEROKEE 2495' (-1175')

LS- TN GY, BRITT, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO IP, IMBED SH THRU, NO FLO, NO VIS POR

LS- CRM, BRITT TO HRD, VF-XLN, SUB-SUCRO MTRX THRU TO TR GRST, IMBED SH IP, NO FLO, PR INTER-XLN POR SCAT THRU, NS

SH- YEL PRPLE, SFT, SLTY IP TO LMY IP

LS- YEL BRN, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

SH- GRY RD PRPLE, FRM, LMY, BLKY

SH- GRY GRN RD DK YEL PRPLE, SFT, LMY, GMMY IP

SH- A/A W/ TR GRN SLTST

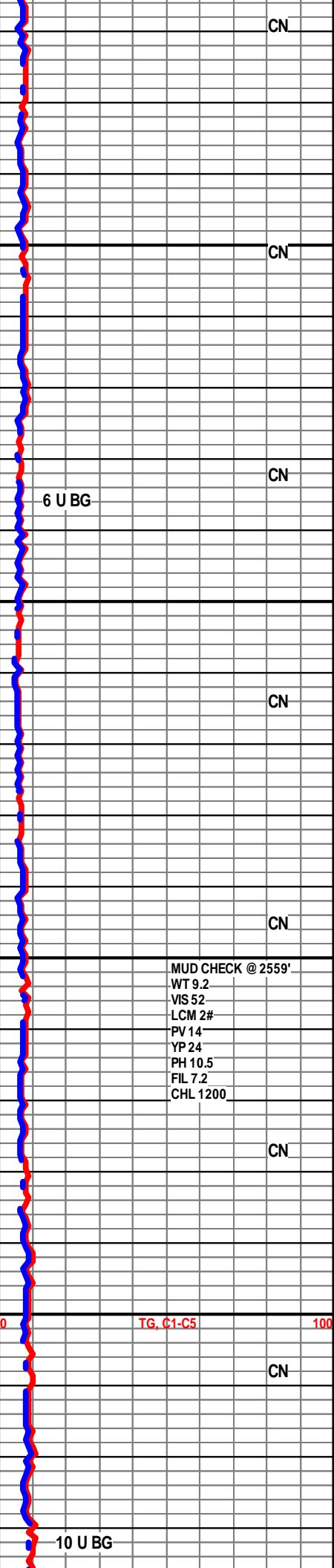
SH- GY GRN RD, FRM, SLTY, TR LS W/ ABDT DISS BLK SH THRU

SS- WHT LT GY, TT, F/VF-GRNS, FR SRT, SUB-RND GRNS, SILI CMNT, TR LMY SS W/ CORSE/F-GRNS, NO FLO, NO VIS CUT, PR INTER-GRN POR IP, NS

LS- LT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR IMBED OOL, NO FLO, NO VIS POR

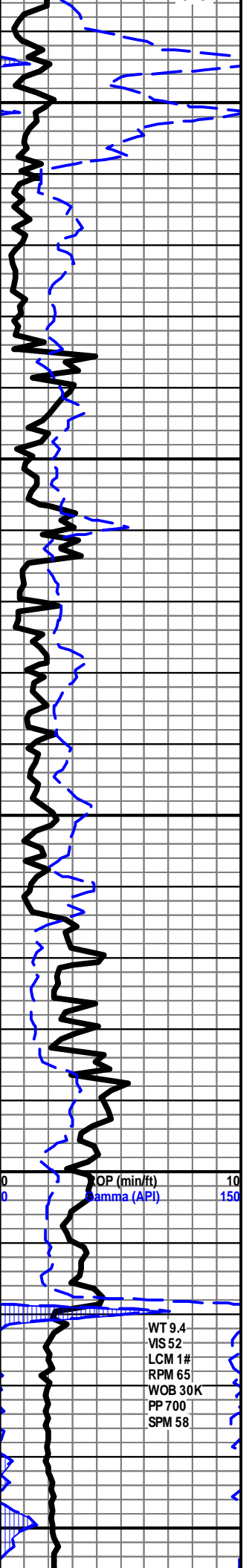
MISSISSIPPIAN 2614' (-1294')

DOLO- GY TN, HRD, MD/VF-XLN, SUB-SUCRO TO SUCRO MTRX THRU TO TR RE-XLN MTRX, TR SM VUGS, TR OPQ CHRT, TR GLAUC, DLL YEL FLO THRU, NO VIS CUT, TR FR INTER-VUG POR TO FR INTER-XLN POR IP TO NO VIS POR IP, NS



MUD CHECK @ 2559'
 WT 9.2
 VIS 52
 LCM 2#
 PV 14
 YP 24
 PH 10.5
 FIL 7.2
 CHL 1200

TG, C1-C5



2650
2700
2750
2800
2850



DOLO- LT TN RDISH, HRD TO BRITT IP, CORSE/MED-XLN, SUCRO MTRX, REWORKED RD & WHT CHRT IMBED IN DOLO, CLR.OPQ CHRT IP, TR PYR, TR SFT WHT CHLK, TR SS, NO FLO, GD/EX INTER-XLN POR, NS

DOLO- LT TN, HRD TO BRITT, CORSE/MED-XLN, SUCRO MTRX, CLR OPQ CHRT IP, NO FLO, GD INTER-XLN POR THRU, NS

SS- OFF WHT, FRI TO TT IP, F-GRNS, GD SRT, SUB-ANG GRNS, SILI CMNT, ABDT CLR OPQ CHRT THRU, NO FLO, FR INTER-GRN POR THRU, NS

DOLO- GY, HRD DNS, VF-XLN, SUCRO MTRX THRU, WHT OPQ CHRT IP, NO FLO, NO VIS POR

DOLO- LT CRM, BRITT, F-XLN, SUCRO MTRX THRU, NO FLO, PR INTER-XLN POR THRU, LS W/ VF-XLN RE-XLN MTRX IP, WHT CHRT IP

DOLO- LT TN, HRD, VF-XLN, SUCRO MTRX THRU, ABRT CLR OPQ CHRT THRU, NO FLO, PR INTER-XLN POR THRU, NS

DOLO- LT GY, HRD, VF-XLN, SUCRO MTRX THRU, TR SM VUTS, TR FOSS FRAGS, ABDT CLR WHT CHRT THRU, NO FLO, TR INTER-XLN POR TO TR MICRO PP POR, NS

DOLO- WHT LT GY, HRD, VF-XLN, SUCRO MTRX THRU, ABDT WHT CLR CHRT THRU, NO FLO, PR MICRO PP POR SCAT THRU, NS

DOLO- OFF WHT CRM, HRD, VF-XLN, SUCRO MTRX THRU TO TR SUB-CHLKY, TR SM VUGS, ABDT WHT OPQ CHRT THRU, NO FLO, TR INTER-VUG POR TO PR INTER-XLN POR IP, NS

LS- CRM, HRD TO BRITT IP, MD-XLN, SUCRO MTRX IP TO RE-XLN IP, DOLOMITZ IP, NO FLO, PR INTER-XLN POR THRU, NS

LS- CRM BFF, HRD, CORSE/VF-XLN, GRST IP TO SUB-SUCRO IP TO TR SUB-CHLKY, TR IMBED OOL, NO FLO, FR INTER-XLN POR IP, NS

LS- CRM GY, HRD, MD/VF-XLN, RE-XLN MTRX THRU, IMBED FOSS FRAGS IP, OOL SCAT THRU, NO FLO, NO VIS POR

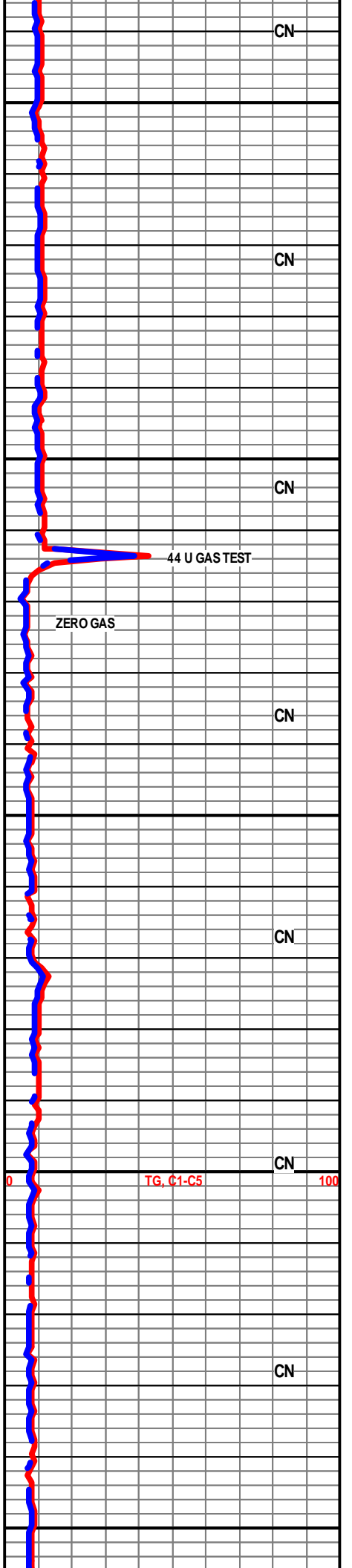
LS- CRM LT TN, HRD, F-XLN, GRST, OOL IMBED IP, NO FLO, PR INTER-XLN POR SCAT THRU, NS

KINDERHOOK 2819' (-1499')

SH- BRWN SH RD GRN GY, SFT WHT FRM IP, LMY, BLKY TO GMMY IP, NO FLO

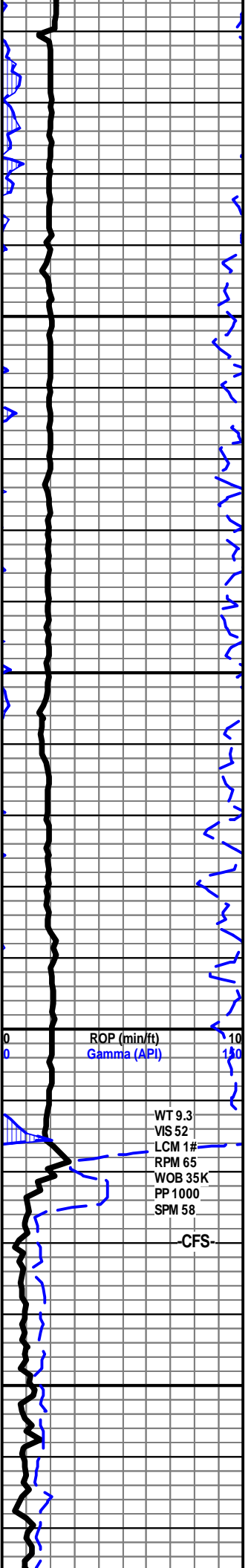
SH- BRWN SH RD GRN, SFT, GMMY TO BLKY IP, NO FLO

SH- LT GRN, SFT, LMY, SLI GMMY



CN
CN
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CN
CN
CN
CN
CN

WT 9.4
VIS 52
LCM 1#
RPM 65
WOB 30K
PP 700
SPM 58



2900

2950

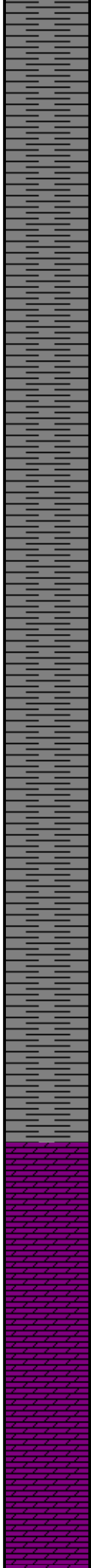
3000

3050

ROP (min/ft)
Gamma (API)

WT 9.3
VIS 52
LCM 1#
RPM 65
WOB 35K
PP 1000
SPM 58

CFS



SH- A/A

SH- LT GRN, FRM TO SFT, LMY TO TR SLTY SH, SLI GMMY

SH- RD LT GRN, SFT, LMYTHRU

SH- A/A, SFT TO FRM IP, GMMYIP

SH- RD LT GRN YEL, SFT TO FRM IP, LMY TO TR SLTY, BLKY

SH- A/A

SH- GY LT GRM, SFT TO FRM IP, LMY, BLKY

SH- RD LT GRN GY PRPLE YEL, SFT TO FRM IP, LMY TO TR SLTY, BLKY

SH- GY LT GRN PRPLE RD, SFT TO FRM IP, LMY THRU TO TR SLTY

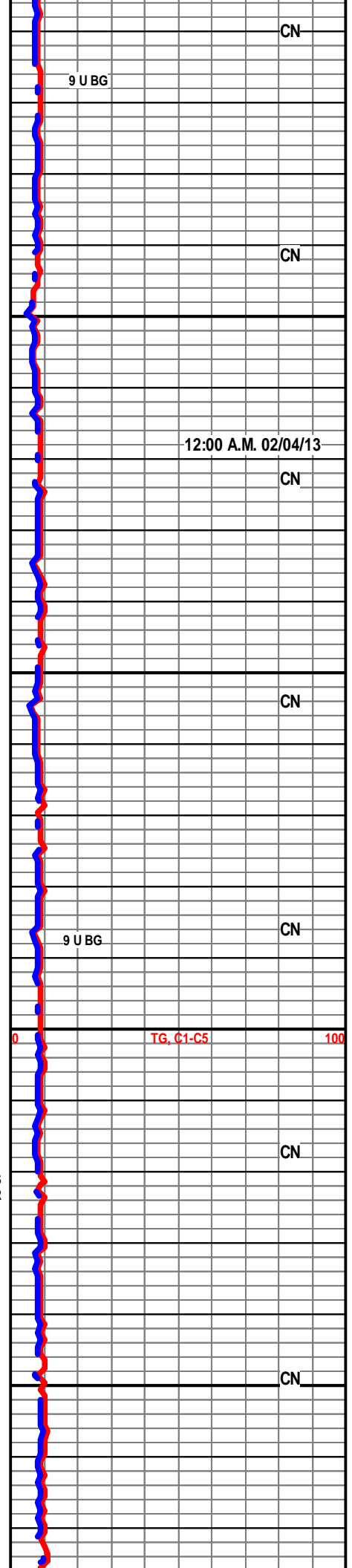
HUNTON 3017' (-1697')

DOLO- LT CRM BFF, BRITT, MD/F-XLN, SUCRO MTRX THRU, ABDT VUGS SCAT THRU, DLL YEL FLO THRU, NO CUT, GD INTER-VUG POR TO PR/FR INTER-XLN POR IP, NS

DOLO- OFF WHT, HRD, MF/VF-XLN, SUCRO MTRX THRU, VUGS SCAT THRU, NO FLO, GD INTER-VUG POR THRU, NS

DOLO- LT GY, HRD, F/VF-XLN, SUCRO MTRX IP TO TR RE-XLN, VUGS IP, NO FLO, GD INTER-VUG POR IP, NS

DOLO- CRM BFF, HRD, F-XLN TO MD RHOMBS IP, SUCRO MTRX IP TO RE-XLN IP, NO FLO, GD INTER-XLN POR IN RHOMBS TO PR INTER-XLN POR THRU, NS



CN

9 U BG

CN

12:00 A.M. 02/04/13

CN

CN

CN

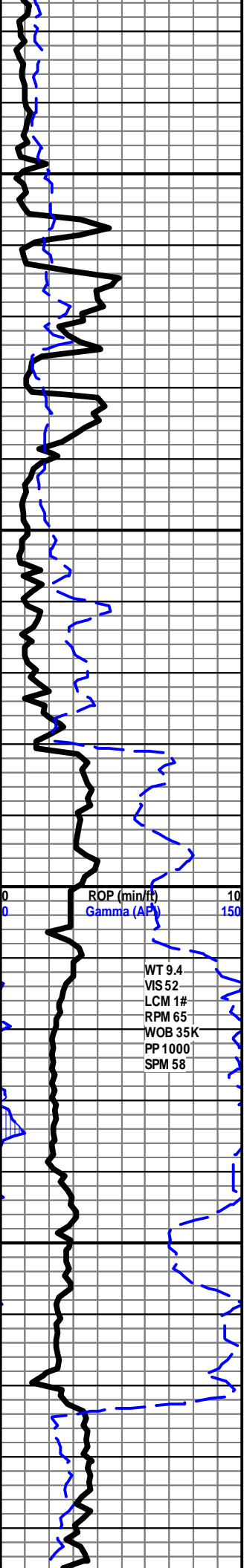
9 U BG

TG, C1-C5

100

CN

CN



3100
3150
3200
3250

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

WT 9.4
VIS 52
LCM 1#
RPM 65
WOB 35K
PP 1000
SPM 58



DOLO- BFF OFF WHT, HRD, VF-XLN TO TR MD RHOMBS, SUCRO MTRX THRU TO TR RE-XLN, NO FLO, GD INTER-XLN POR IN RHOMBS TO NO VIS POR THRU, NS

DOLO- OFF WHT, HRD, MD/VF-XLN, SUCRO MTRX IP TO RE-XLN IP, VUGS IP, NO FLO, GD INTER-XLN POR IP TO GD INTER-VUG POR IP, NS

DOLO- LT CRM, HRD, CORSE/VF-XLN, RE-XLN MTRX IP TO TR SUCRO, VUGS IP, NO FLO, GD INTER-XLN POR SCAT THRU TO FR INTER-VUG POR IP, NS

LMY DOLO- CRM, HRD, F-XLN, SUCRO MTRX THRU TO TR RE-XLN, NO FLO, PR INTER-XLN POR THRU, NS

LMY DOLO- CRM LT GY, HRD, F-XLN, SUCRO MTRX THRU, IMBED SH IP, NO FLO, FR INTER-XLN POR IP, NS

MAQUOKETA SH 3181' (-1861')

SH- GRN, SFT TO FRM IP, BLKY, SLI SLTY IP

SH- LT GY GRN, FRM TO SFT, SLTY IP TO LMY IP, SLI GMMY IP

SH- GRN LT GRN, SFT TO FRM IP, LMY TO TR SLTY, BLKY

SH- GY DK GY, SFT, GMMY

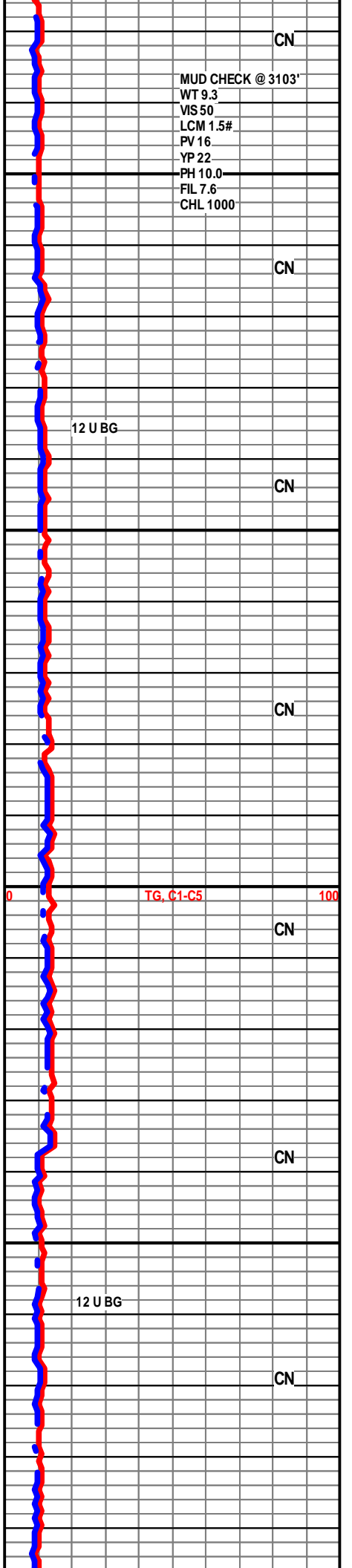
SH- DK GY, FRM, SLTY IP TO LMY IP, BLKY

SH- DK GY, SFT TO FRM IP, LMY, BLKY

MAQUOKETA DOLOMITE 3273' (-1953')

LMY DOLO- WHT BFF, HRD, CORSE/F-XLN, SUCRO MTRX IP TO RE-XLN IP TO TR SUB-CHLKY, SFT WHT CHLK SCAT THRU, CORSE RHOMBS IP, NO FLO, TR GD INTER-XLN POR TO PR TO NO VIS POR THRU, NS

LMY DOLO- CRM BFF, HRD, MD/F-XLN, SUCRO MTRX THRU TO TR



MUD CHECK @ 3103'
WT 9.3
VIS 50
LCM 1.5#
PV 16
YP 22
PH 10.0
FIL 7.6
CHL 1000

12 U BG

TG, C1-C5

CN
CN
CN
CN
CN
CN
CN
CN
CN
CN

RE-XLN, TR VUGS, NO FLO, PR INTER-XLN POR SCAT THRU TO TR INTER-VUG POR, NS

DOLO- LT GY, HRD DNS, VF-XLN, SUCRO MTRX THRU TO TR RE-XLN, ABDT LT GY CHRT THRU, DISS BLK SH IP, NO FLO, NO VIS POR

VIOLA 3318' (-1998')

LMY DOLO- GY TN, HRD DNS, F/VF-XLN, SUCRO MTRX THRU, TR FOSS FRAGS, LT GY CHRT IP, NO FLO, NO VIS POR

LMY DOLO- WHT LT TN, HRD DNS, F-XLN, SUCRO MTRX THRU, TR SFT WHT CHLK, LS STRINGERS, NO FLO, PR INTER-XLN POR THRU, NS

LMY DOLO- TN GY, HRD DNS, F-XLN, SUCRO MTRX THRU TO TR RE-XLN, LS IP, TR FOSS FRAGS, NO FLO, NO VIS POR

LMY DOLO- CRM TN, HRD DNS, F-XLN, SUCRO MTRX THRU TO TR RE-XLN, TR IMBED FOSS FRAGS, LS IP, NO FLO, NO VIS POR

LMY DOLO- RDSH BRN, HRD DNS, F-XLN, SUCRO MTRX THRU, NO FLO, TR INTER-XLN POR TO NO VIS POR THRU, NS

SIMPSON 3397' (-2077')

SH- GRN, FRM TO HRD IP, LMY TO TR SLTST, BLKY

SS- FRSTY LT GY, TT, MD/F-GRNS, FR SRT, ANG TO SUB-ANG GRNS, SILI CMNT, CLR FRSTY QTZ XLS IP, TR DISS RDSH BLK SH, TR LOOSE FINE QTZ GRNS IN TRAY, NO FLO, NO VIS CUT, PR INTER-GRN POR TO NO VIS POR THRU, NS

LS- LT GY, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LMY DOLO- LT TN, HRD DNS, VF-XLN, SUCRO MTRX THRU, NO FLO, NO VIS POR

LMY DOLO- TN, HRD DNS, VF-XLN, SUCRO MTRX THRU, NO FLO, NO VIS POR

SS- FRSTY CLR, FRI, MD-GRNS, GD SRT, SUB-RND GRNS, SILI CMNT, TR GLAUC, NO FLO, NO VIS CUT, GD INTER-GRN POR THRU, NS

ARBUCKLE 3471' (-2151')

DOLO- TN, HRD DNS, F-XLN, SUCRO MTRX THRU, TR VUGS, WHT CHRT IP TO TR WHT CHRT IMBED W/ DOLO, NO FLO, PR INTER-XLN POR IP TO TR INTER-VUG POR, NS

DOLO- DK TN LT BRN, HRD, MD/VF-XLN, SUCRO MTRX THRU TO TR RE-XLN, NO FLO, FR INTER-XLN POR IP TO NO VIS POR IP, NS

DOLO- OFF WHT TN, HRD, MD/VF-XLN, SUCRO MTRX IP TO TR RE-XLN, NO FLO, GD INTER-XLN POR IP TO NO VIS POR IP, NS

CN

CN

CN

CN

CN

CN

CN

3300

3350

3400

3450

3500

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

WT 9.4
VIS 57
LCM 1#
RPM 65
WOB 35K
PP 1000
SPM 58

-CFS-

10 U BG

TG, C1-C5

12:00 A.M. 02/05/13

100

R.T.D. 3520'

L.T.D. 3506'

50

TD 5:45 A.M. 02/05/13

CTCH 1 HR.

SHORT TRIP 30 STANDS

CTCH 1 1/2 HR.

TOH FOR LOGS