



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1078322
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: _____

1078322

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	TUZICKA-YARMER ET AL 1-23
Doc ID	1078322

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 09, 2012

CLAYTON CAMOZZI
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-165-21953-00-00
TUZICKA-YARMER ET AL 1-23
SW/4 Sec.23-16S-16W
Rush 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 at 303-831-4673.

Respectfully,
CLAYTON CAMOZZI



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

12/18/11
 Date: ~~9/23/2011~~
 Invoice # 549
 P.O.#:
 Due Date: ~~10/23/2011~~ 1/18/11
 Division: Russell

Invoice

V1201-AP-137

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 TUZICKY-YARMER ET AL 1-23

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	9200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	370	\$ 4,764.78	Yes	Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	390	\$ 823.33	No				
Calcium Chloride	13	\$ 516.78	Yes				
Pump Truck Mileage-Job to Nearest Camp	29	\$ 305.50	No				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Flo Seal	92	\$ 194.22	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	29	\$ 178.77	No				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,277.74
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,391.66)

SubTotal for Taxable Items: \$ 5,955.35
 SubTotal for Non-Taxable Items: \$ 1,930.73

6.30% Rush County Sales Tax

Total: \$ 7,886.08
 Tax: \$ 375.19
Amount Due: \$ 8,261.27
 Applied Payments:
Balance Due: \$ 8,261.27

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.

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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. 549

Date	12/18/11	Sec.	23	Twp.	16	Range	16	County	Rush	State	KS	On Location		Finish	4:45 PM
------	----------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	---------

Lease Tuzicka-Yarmer Well No. ^{El Al} 1-23 Location Galatia, 6W, N into

Contractor Discovery Drilling Rig #2 Owner

Type Job Surface 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 12 1/4" T.D. 1056' Charge To Sam Gary Jr. + Associates

Csg. 8 5/8" Depth 1056' Street

Tbg. Size Depth City State

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

Cement Left in Csg. 40' Shoe Joint 40' Cement Amount Ordered 370sx Com 3% CC 2% gel

Meas Line Displace 64 3/4 Bbk. Cement # Floate Common 370

EQUIPMENT			
Pumptrk	9	No.	Cementer Helper Paul
Bulktrk	12	No.	Driver Matt
Bulktrk	PV	No.	Driver Cory

POZ. Mix 7

Calcium 13

Remarks: Hulls

Rat Hole Salt

Mouse Hole Flowseal 92#

Centralizers 1, 14, 23 Kol-Seal

Baskets 2, 15, 24 Mud CLR 48

DV or Port Collar CFL-117 or CD110 CAF 38

Est. Csrc. Sand

Mix 370sx Handling 390

Displace Mileage 8 5/8"

band Plug FLOAT EQUIPMENT

Cement Circulated Guide Shoe

Centralizer -3

Baskets -3

AFU Inserts

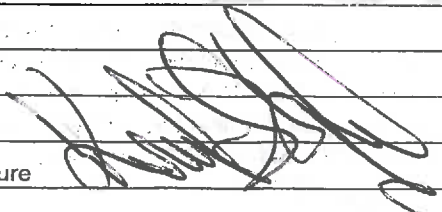
Float Shoe

Latch Down Raffle Plate + Rubber Plug Head + Manifold

Pumptrk Charge Long Surface Job Mileage 29

Tax
Discount
Total Charge

Thank You!!



X Signature



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 1/9/2012
 Invoice # 144

P.O.#:
 Due Date: 2/8/2012
 Division: Russell

Invoice

2/0

V1201-AP-417

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 TUZICKY-YARMER 1-23

Description of Work:
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 937.80	No	Salt (Fine)	19	\$272.41	Yes
Common-Class A	225	\$ 2,819.19	Yes	Pump Truck Mileage-Job to Nearest Camp	28	\$286.99	No
Gilsonite	1057	\$ 1,628.35	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$230.05	Yes
CFL 117	176	\$ 1,113.46	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$167.94	No
5 1/2" Basket	4	\$ 944.86	Yes	Flo Seal	56	\$115.03	Yes
Bulk Truck Matl-Material Service Charge	255	\$ 523.78	No	KCL	2	\$61.33	Yes
CD-110	117	\$ 480.65	Yes				
5 1/2" Turbolizer	8	\$ 476.54	Yes				
Mud Clear	500	\$ 380.00	Yes				
Defoamer A or CAF-38	50	\$ 359.46	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 314.27	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 11,112.12
	Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	\$ (1,666.82)
<hr/>		
	SubTotal for Taxable Items:	\$ 7,816.27
	SubTotal for Non-Taxable Items:	\$ 1,629.04
<hr/>		
	Total:	\$ 9,445.31
	Tax:	\$ 492.42
<hr/>		
	Amount Due:	\$ 9,937.73
	Applied Payments:	
	Balance Due:	\$ 9,937.73

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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RECEIVED

JAN 16 2012

**SAMUEL GARY JR.
 & ASSOCIATES, INC.**

DRLG COMP W/O LOE GG

Account	8300.258
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

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. 144

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-7-12	23	16	16	Rush	Kansas		9:15 AM
Lease <i>Prozick Farmer</i>	Well No. <i>1-23</i>		Location <i>Galatia SW</i>				
Contractor <i>Discovery Drilling Rig 2</i>				Owner 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.			
Type Job <i>Long string</i>	Hole Size <i>7 7/8</i>		T.D. <i>3609</i>	Charge To <i>Sam Gary Jr & Associates</i>			
Csg. <i>5 15.526</i>	Tbg. Size		Depth <i>3579</i>	Street			
Tool	Cement Left in Csg. <i>2 1/2</i>		Depth	City State			
Meas Line	Shoe Joint <i>2 1/2</i>		Displace <i>8 1/2 Bbl</i>	The above was done to satisfaction and supervision of owner agent or contractor.			
EQUIPMENT				Cement Amount Ordered <i>175 Q-Pro-C 10 1/2 Seal</i>			
Pumptrk <i>9</i>	No. Cementer <i>Steve</i>	Helper <i>Steve</i>		<i>30 Gilsonite 1/2 Fl Seal 1 3/4 CD-110</i>			
Bulktrk <i>14</i>	No. Driver <i>Matt</i>	Driver <i>Michael</i>		<i>500 Gal Mud Clear-48 20 Bbl 12L</i>			
JOB SERVICES & REMARKS				<i>Calcium CD-110 117#</i>			
Remarks:				<i>Hulls KOL 2 gal</i>			
Rat Hole <i>30 1/2</i>				<i>Salt 19</i>			
Mouse Hole <i>20 1/2</i>				<i>Flowseal 56#</i>			
Centralizers <i>1, 3, 5, 7, 9, 12, 14, 16</i>				<i>Kol-Seal 1057#</i>			
Baskets <i>1, 3, 14, 16</i>				<i>Mud CLR 48</i>			
D/V or Port Collar				<i>CFE-117 or CD110 CAF 38 50#</i>			
<i>Land @ 1200 #</i>				<i>Sand 176#</i>			
<i>WAF PSI 600 #</i>				<i>Handling 255</i>			
<i>Float Head</i>				Mileage			
				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer <i>8 Turbos</i>			
				Baskets <i>4</i>			
				AFU Inserts			
				Float Shoe <i>1</i>			
				Latch Down <i>1</i>			
				Pumptrk Charge <i>prob long string</i>			
				Mileage <i>28</i>			
				Tax			
				Discount			
				Total Charge			
X Signature <i>[Signature]</i>							



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

Well Name: SGA TUZICKA-YARMER ET AL 1-23
 Location: SEC. 23-16S-16W RUSH COUNTY KS
 License Number: 15-165-21953
 Spud Date: 12/18/2011
 Surface Coordinates: 210' FSL / 1600' FWL
 Region: WILDCAT
 Drilling Completed: 1/06/2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1952' K.B. Elevation (ft): 1960'
 Logged Interval (ft): 2900' To: 3609' Total Depth (ft): 3609'
 Formation: Lansing, Arbuckle
 Type of Drilling Fluid: Natural Chemical

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

OPERATOR

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

GEOLOGIST

Name: TIM HEDRICK / SCHUYLER HEDRICK
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378

ROCK TYPES

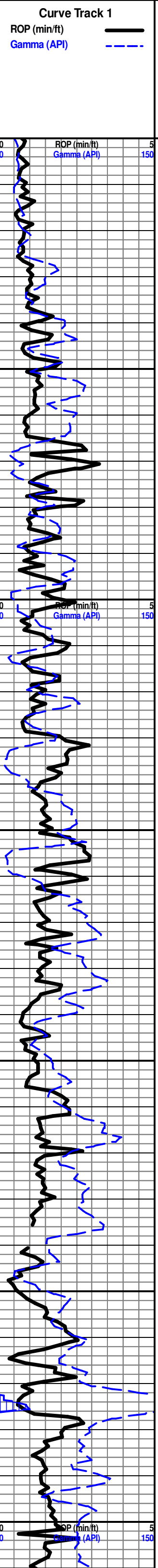
Anhy	Gyp	Shgy	Sandylms
Bent	Igne	Sltst	Shale
Brec	Lmst	Ss	Sltstn
Cht	Meta	Till	Shlyslts
Clyst	Mrlst	Carb sh	Sltys
Coal	Salt	Dol	Lms
Congl	Shale	Dtd	
Dol	Shcol	Gry sh	

ACCESSORIES

MINERAL	Salt	Fossil	Clystn
Anhy	Sandy	Gastro	Dol
Arggrn	Silt	Oolite	Grysh
Arg	Sil	Ostra	Gryslt
Bent	Sulphur	Pelec	Lms
Bit	Tuff	Pellet	Sandylms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Sltstn
Carb	Sand	Strom	
Chtdk	Silty	Fuss	TEXTURE
Chtlt	FOSSIL	Oomold	Boundst
Dol	Algae	STRINGER	Chalky
Feldspar	Amph	Anhy	Cryxln
Ferrpel	Belm	Arg	Earthy
Ferr	Bioclst	Bent	Finexln
Glau	Brach	Coal	Grainst
Gyp	Bryozoa	Dol	Lithogr
Hvymin	Cephal	Gyp	Microxln
Kaol	Coral	Ls	Mudst
Marl	Crin	Mrst	Packst
Minxl	Echin	Sltstrg	Wackest
Nodule	Fish	Ssstrg	
Phos	Foram	Carbsh	
Pyr			

OTHER SYMBOLS

POROSITY TYPE	SORTING	Angular	INTERVALS
Earthy	Well	OIL SHOWS	Core
Fenest	Moderate	Even	Dst
Fracture	Poor	Spotted	Dst
Inter	ROUNDING	Ques	EVENTS
Moldic	Rounded	Dead	Rft
Organic	Subrnd	Gas show	Sidewall
Pinpoint	Subang		
Vuggy			



Depth

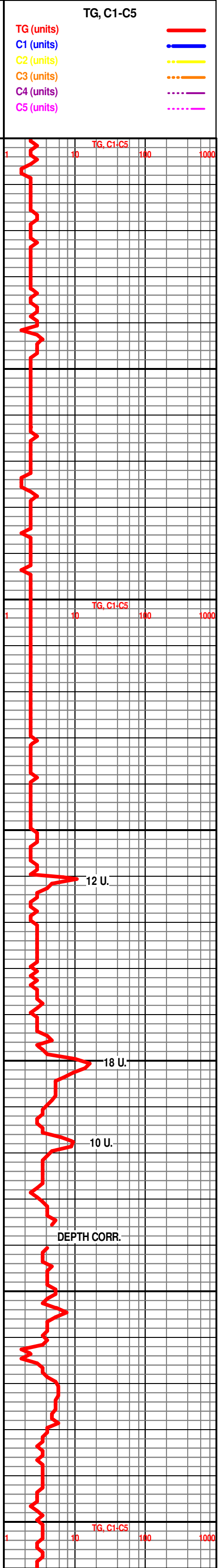
Lithology

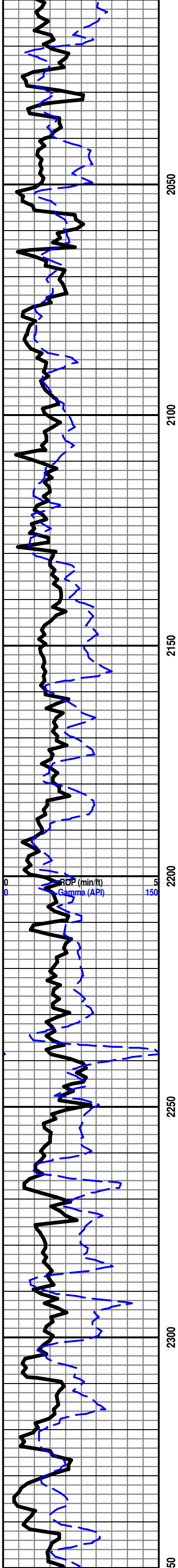
Oil Shows

Geological Descriptions

START UNMANNED UNIT 1/04/2012
DISCOVER DRILLING RIG 2
TERRY WICKHAM

9





2050

2100

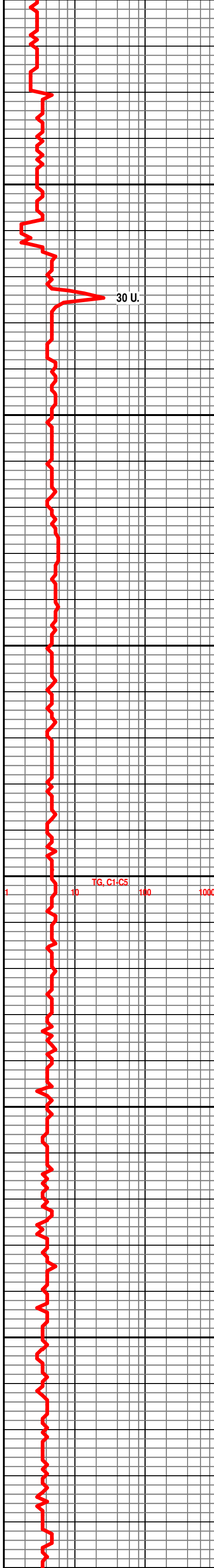
2150

2200

2250

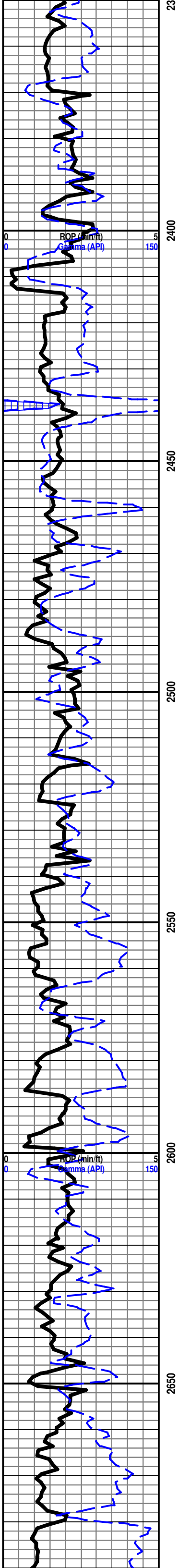
2300

ROP (min/ft)
Gamma (API)



30 U.

TG, C1-C5



23

2400

2450

2500

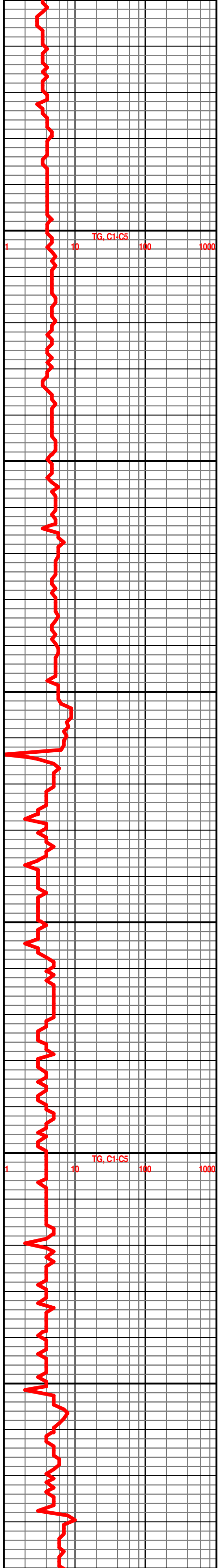
2550

2600

2650

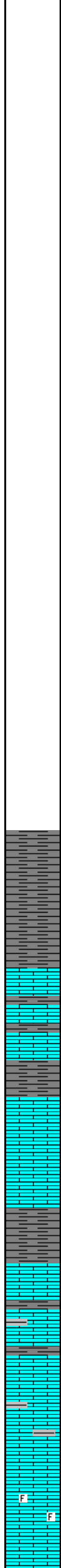
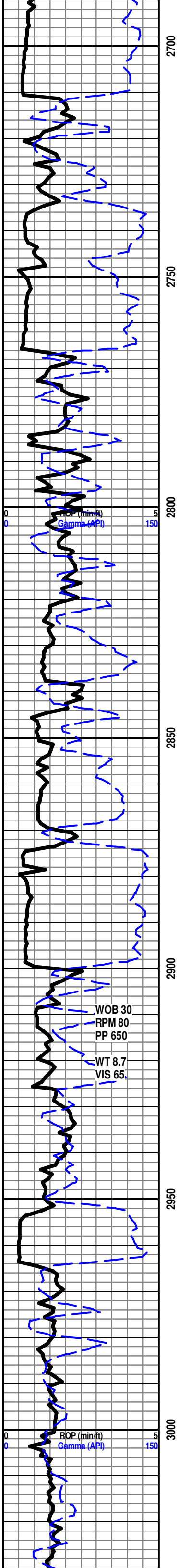
ROP (min/ft)
Gamma (API)

ROP (min/ft)
Gamma (API)



TG, C1-C5

TG, C1-C5



BRS 2711'-751'

SH- LT GY- V/SFT GMMY TXT TO SLTY IP

START 24 HR. MANNED UNIT 1/05/12

HOWARD 2899'-939'

LS- CRM BUFF, HD DNS TO BRIT, MD-XLN TO SUCRO S-CHLK IP, LT GY SH IMB IP, DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

WOB 30
RPM 80
PP 650
WT 8.7
VIS 65.

SH- LT GY TO GY, FRM TO SILTY IP

LS- LT TN TO TN, HD DNS TO BRIT, MD-XLN TO SUCRO S-CHLK IP, DUL YEL FLO IP TO NO FLO, NO VIS POR, NO VIS SHOW

SEVERY 2952'-992'

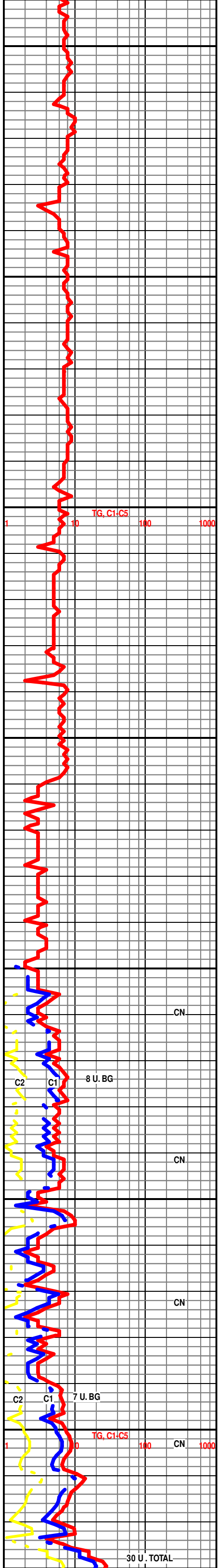
SH- DRK GY TO GY, FRM BLKY TXT CALC IP

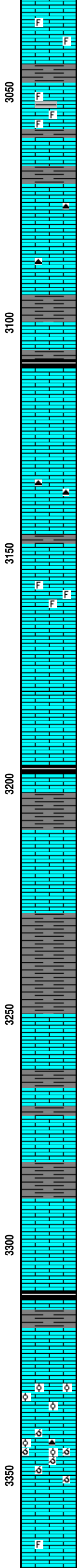
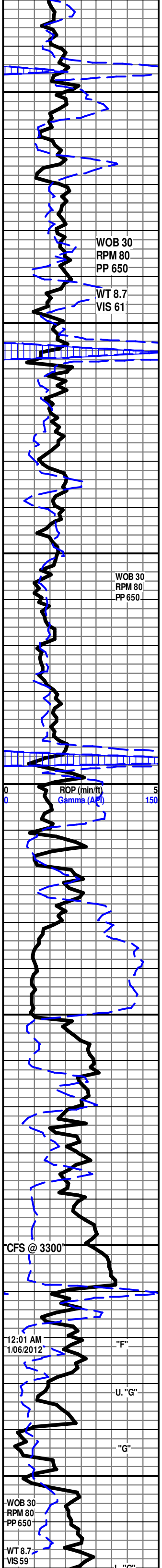
TOPEKA 2964'-1004'

LS- CRM LT TN, HD DNS, MD-FN-XLN, SLI TR S-CHLK IP, SLI TR IMB SH, V DUL YEL FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO DRK GY, HD DNS MOTT, V-FN TO CRYPTO-XLN, SLI TR IMB SH IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO LT GY MOTT, HD DNS, V FN TO CRYPTO-XLN TO MD-XLN IP SLI RE-XLN IP, TR FOSS FRAGS, V DUL YEL FLO, NO VIS POR, NO VIS SHOW





LS- CRM LT TN TO TN, HD DNS TO BRIT, MD-XLN RE-XLN MTRX, FOSS FRGS IP, SLI S-SUCRO, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS TO BRIT, MD-FN-XLN RE-XLN MTRX, V FOSS, TR IMB SH IP, SLI TR CHLK, NO FLO, NO VIS POR, NO VIS SHOW

LE COMPTON 3069'-1109'

LS- OFF WHT TO CRM, HD DNS, F-VFN-XLN, FRLY NON DISCRPT, TR GY TN MOTT CHRT, DUL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

LS- CRM LT TN TO TN, HD DNS TO BRIT, MD-XLN TO SLI SUCRO, SLI TR S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS TO BRIT, MD-FN-XLN, GY TN MOTT CHRT, TR DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

3154'-3161' LS- WHT OFF WHT W/ LT TN OIL STN IN 10%, HD TO MD HD BRIT, MD-XLN TO SUCRO S-CHLKY THRU, FOSS FRGS SCAT THRU, BRT YEL GLD FLO IN 10% TO NO FLO IN 90%, PR VIS SCAT MICRO VUG POR IP, WK SLW STRM CUT IN 10%, NO STN ON DISH, NO ODOR

LS- OFF WHT CRM TN IP, MD HD TO SFT, V-SUCRO S-CHLKY TO CHLKY MTRX, HVY TR ABDT SFT WHT CHLK, NO FLO, NO VIS POR, NO SHOW

HEEBNER 3194'-1234'

SH- BLK SFT CARB

SH- LT GY TO LT GRN, V SFT SLTY TXT, SLI CALC

3214'-3218' LS- OFF WHT TO CRM, MD HD TO SFT, V SFT CHLKY MTRX W/ ABDT SFT GUMMY WHT CHLK, BRT YEL THRU, NO VIS POR, NO FLSH CUT TO V PR SLW STRM CUT IN 10%

DOUGLAS 3225'-1265'

SH- LT TO MD GY, V SFT SLTY TXT TO GUMMY IP

LANSING 3251'-1291'

3251'-3253' LS- OFF WHT CRM LT TN, V V LT TN STN IN 30%, HD DNS TO BRIT, MD-XLN TO SUCRO MTRX IP, SM CALC-XLS IP, DUL YEL GLD FLO IN 30% BRT YEL GLD IN 40%, TR PR INTER-XLN POR IP, LT FLSH CUT IN 20%, FR SLW STRM CUT IN 30% NO STN ON DISH, LT OIL ODOR

LANSING "C" 3273'-1313'

3273'-3276' LS- CRM LT TN TO TN, HD DNS TO BRIT, MD TO FN-XLN RE-XLN MTRX, LT TN STN ON ONE FACES OF THE ROCK, SM CALC-XLS IMB ON ONE FACES, BRT YEL GLD FLO ON ONE FACES, NO OIL ODOR, LT FLSH CUT TO FR SLW STRM CUT ON ONE FACES, LT OIL ODOR, NO STN ON DISH

LS- CRM LT TN TO TN- HD DNS TO SLI BRIT, MD-F-XLN, V/F-XLN IP, SLI TR FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

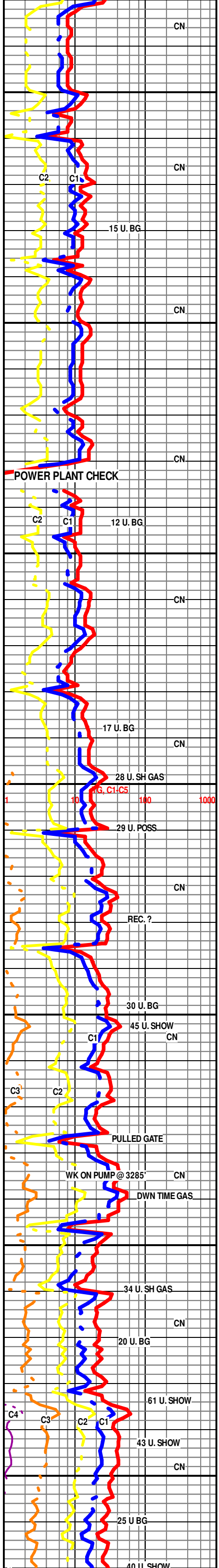
LANSING "F" 3317' - 1357'

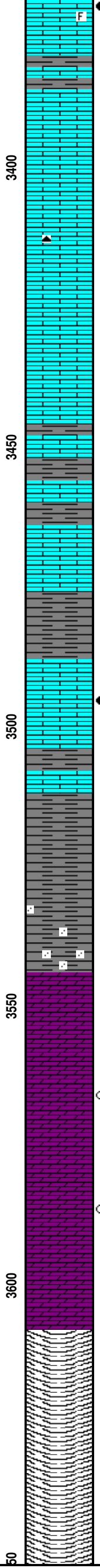
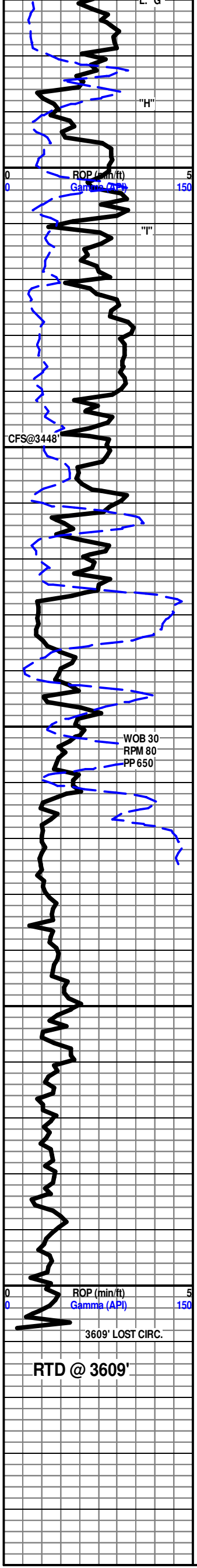
LS- OFF WHT TO CRM BFF- MD HD TO SFT IP, V/ SUCRO MTRX, V/ S-CHLKY TO CHLKY IP, SLI TR CALC XLS IMBD IP, DLL YEL FLO IP, NO VIS POR, NO VIS SHOW

3331- 3334' LS- CRM LT TN TN, TN STN IN 10%, HD DNS IP TO BRIT, MD-F-XLN, RE-XLN MTRX, V/ FOSS, ABDT IMBD SMLL OOL THRU, DLL YEL FLO IN 80%, BRT YEL GLD SCAT FLO IN 20%, TR V/ PR VIS INTER-XLN POR IN 20%, SLI TR INTER-OOL POR IN 20%, FR OIL ODOR, WK FLSH CUT TO WK TO FR SLO STRM CUT IN 50%, NO STN ON DISH

3339- 3346' LS- OFF WHT CRM LT TN TN, TN OIL STN IN 30%, TR LV OIL IN 10%, HD DNS TO V/ BRIT, MD-XLN V/ RE-XLN MTRX, V/ OOLMLD, SLI MICRO OOL IP, V/ S-CHLKY, TR WHT CHRT IP, V/ DLL YEL FLO SCAT IP, NO FLO IN 60%, SCAT BRIT YEL GLD FLO IN 20%, PR SCAT OOLMLD POR THRU TR PR SCAT MICROVUG POR IN 20%, FR FLSH CUT IN 30%, FR TO GD SLO STRM CUT IN 30%, LT STN ON DISH, NO OIL ODOR

3368-3372' LS- OFF WHT LT TN TN (DUE TO SCAT TN OIL STN THRU), HD DNS IP TO V/ BRIT, MD-XLN TO SUCRO MTRX IP, SCAT FOSS FRGS IP





HD DNS TO V/ BRIT, MD XLN TO SUCRO MTRX IP, SCAT 100% THRU, SLI TR WHT CHLK, BRIT YEL GLD FLO THRU, GD VIS INTER-XLN POR SCAT THRU, FR TO GD MICROVUG POR SCAT THRU, GD FLSH CUT TO V/ GD SLO STRM CUT IN 80%, FR OIL ODOR, TN LCH ON DISH

LANSING "H" 3386' - 1426'

LS- OFF WHT WHT- MD HD TO V/ SFT CHLKY MTRX THRU, SLI TR SUCRO S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT GY- HD DNS TO SLI BRIT, F-XLN IP TO V/ SUCRO SLI S-CHLKY MTRX IP, SLI TR WHT CHRT, DLL YEL MIN FLO IP, TO NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF- HD DNS, F-V/F-XLN, WHT CHRT IP, NO FLO, NO VIS POR, NO VIS SHOW

NOTE: SAMPLES 50% UPHOLE CAVINGS

LS- CRM LT TN TO TN, HD DNS TO BRIT, MD-XLN RE-XLN MATRX, V FOSS, SCAT IMB OOL, TR IMB SH, SM IMB CALC-XLS, NO FLO, NO VIS POR, NO SHOW

SH- LT GY TO MD GY, FRM BLKY, ABDT IMB DISS PYR

LS- OFF WHT TO CRM, HD DNS TR BRIT, F-VF-XLN TO MD-XLN IP, IMB DISS PYR, DUL YEL FLO IP, NO VIS POR, NO VIS CUT

BKC 3476'-1516'

SH- RD GY, FRM BLKY SMOOTH TXT TO HD SPLNTY IP

3494' - 3496' LS- CRM LT TN TO DK TN W/ DK TN OIL STN IN 80%, V FOSS IMB SM CALC-XLS, V OOL IP, DUL YEL GLD SCAT FLO IN 50%, DUL YEL FLO IN 50%, PR TO FR VIS INTER FOSS POR SCAT IN 50%, PR SCAT MICRO-VUG POR IN 20%, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT THRU, LT OIL ODOR, DK TN LCH ON DISH

SH- RD TO DK RD, V SFT GUMMY TXT, FRM IP W/ IMB MOTT CHRT

SH-RD TO DK RD, FRM IP TO SFT SLTY TXT, HVY TR IMB CLR TO FRST S-RND TO RND QURTZ GRN IP

ARBUCKLE 3545'-1585'

DOLO- WHT - HD DNS TO BRIT, V/ CRS SUCRO MTRX, ABDT IMB MD WHT ANG DOLO GRNS THRU, DLL YEL MIN FLO THRU, TR PR INTER-GRN POR

DOLO- WHT OFF WHT, TR TN STN IN 15%, HD DNS TO BRIT IP, CRS SUCR MTRX TO FN-XLN IP, ABDT IMB SM TO MD ANG DOLO GRN, TR IMB GR CLAY, DUL YEL MIN FLO THRU, PR TO FR VIS INTER-XLN POR IN 30% TO NO POR IN 60%, WK FLSH CUT IN 10%, FR SLW SRM CUT IN 10%, NO CUT IN 90%

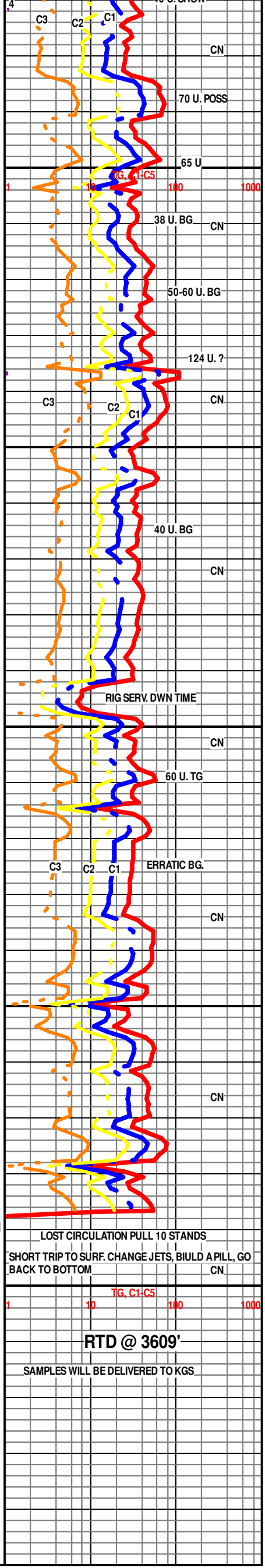
DOLO- WHT OFF WHT, TR TN STN IN 20%, HD DNS TO BRIT IP, FN-CRS SUCR MTRX TO FN-XLN IP, ABDT IMB SM TO MD TO CRS ANG DOLO GRN, TR IMB GR CLAY, DUL YEL MIN FLO THRU, BRT YEL GLD FLO IN 15%, PR TO FR VIS INTER-XLN POR IN 20% TO GD VIS POR IN 60%, WK FLSH CUT IN 20%, FR SLW SRM CUT IN 20%, NO CUT IN 80%

LOST CIRCULATION AT 10:45 A.M. 01/06/2012

REGAINED STATIC MUD IN HOLE

TRIP OUT FOR LOGS

WEATHERFORD LIBERAL, KS



ROP (min/ft)
Gamma (API)

WOB 30
RPM 80
PP 650

CFS@3448'

3609' LOST CIRC.

RTD @ 3609'

3400

3450

3500

3550

3600

50

CN

70 U. POSS

65 U

38 U. BG

50-60 U. BG

124 U. ?

40 U. BG

RIG SERV. DWN TIME

60 U. TG

ERRATIC BG.

LOST CIRCULATION PULL 10 STANDS

SHORT TRIP TO SURF. CHANGE JETS, BUILD A PILL, GO BACK TO BOTTOM

RTD @ 3609'

SAMPLES WILL BE DELIVERED TO KGS

C3 C2 C1

TG, C1-C3

10 100 1000