



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	THOMAS FUNK 1-7
Doc ID	1058407

All Electric Logs Run

DIL
MICRO
POR
SONIC

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

June 27, 2011

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

Re: ACO1
API 15-009-25521-00-00
THOMAS FUNK 1-7
NE/4 Sec.07-16S-15W
Barton 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



Notice: Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.

KANSAS CORPORATION COMMISSION 1053567
OIL & GAS CONSERVATION DIVISION

Form CP-4
March 2009

Type or Print on this Form
Form must be Signed
All blanks must be Filled

WELL PLUGGING RECORD
K.A.R. 82-3-117

OPERATOR: License #: _____
 Name: _____
 Address 1: _____
 Address 2: _____
 City: _____ State: _____ Zip: _____ + _____
 Contact Person: _____
 Phone: (_____) _____
 Type of Well: (Check one) Oil Well Gas Well OG D&A Cathodic
 Water Supply Well Other: _____ SWD Permit #: _____
 ENHR Permit #: _____ Gas Storage Permit #: _____
 Is ACO-1 filed? Yes No If not, is well log attached? Yes No
 Producing Formation(s): List All (If needed attach another sheet)
 _____ Depth to Top: _____ Bottom: _____ T.D. _____
 _____ Depth to Top: _____ Bottom: _____ T.D. _____
 _____ Depth to Top: _____ Bottom: _____ T.D. _____

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
 County: _____
 Lease Name: _____ Well #: _____
 Date Well Completed: _____
 The plugging proposal was approved on: _____ (Date)
 by: _____ (KCC District Agent's Name)
 Plugging Commenced: _____
 Plugging Completed: _____

Show depth and thickness of all water, oil and gas formations.

Oil, Gas or Water Records		Casing Record (Surface, Conductor & Production)			
Formation	Content	Casing	Size	Setting Depth	Pulled Out

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

Plugging Contractor License #: _____ Name: _____
 Address 1: _____ Address 2: _____
 City: _____ State: _____ Zip: _____ + _____
 Phone: (_____) _____
 Name of Party Responsible for Plugging Fees: _____
 State of _____ County, _____, ss.
 _____ Employee of Operator or Operator on above-described well,
 (Print Name)

being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.

Submitted Electronically

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



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: 3/7/2011
 Invoice # 4779

P.O.#:
 Due Date: 4/6/2011
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 3111 W. 10th Street
 Great Bend, KS 67503

Reference:
 THOMAS FUNK 1-7

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	THOMAS FUNK 1-7
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 703.35	No				
Common-Class A	400	\$ 5,011.89	Yes				
8 5/8" Basket	3	\$ 973.62	Yes				
Bulk Truck Matl-Material Service Charge	422	\$ 866.81	No				
Calcium Chloride	14	\$ 541.49	Yes				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 235.74	No				
8 5/8" Centralizer	3	\$ 197.19	Yes				
Premium Gel (Bentonite)	8	\$ 133.76	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 137.95	No				
8 5/8" Top Rubber Plug	1	\$ 108.86	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 92.43	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,003.10
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,350.47)

SubTotal for Taxable Items:	\$ 6,000.36
SubTotal for Non-Taxable Items:	\$ 1,054.43
Total:	\$ 7,652.64
Tax:	\$ 438.03

7.30% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,090.66
Applied Payments:
Balance Due: \$ 8,090.66

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

MAR 15 2011

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

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. 4779

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-5-11	7	16	15	Butter	Kansas		3:00pm
Lease <i>Thomas Funk</i>	Well No. <i>1-7</i>		Location <i>Garham S. to Co. Line 1E 14S 16W</i>				
Contractor <i>Discovery Drilling Rig 2</i>				Owner			
Type Job <i>Surface</i>				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 <i>12 1/4</i>		T.D. <i>1042</i>		Charge To <i>Spruwell Gary Jr & Associates</i>			
Csg. <i>8 5/8 23 1/2</i>		Depth		Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg. <i>24.89</i>		Shoe Joint <i>24.89</i>		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <i>64 3/4 Bbl</i>		Cement Amount Ordered <i>400 Com 30 CC 266 gal</i>			
EQUIPMENT				<i>1/2 lb Flo-Seal per sk</i>			
Pumptrk. <i>5</i>	No.	Cementer <i>Jane</i>		Common <i>400</i>			
Bulktrk <i>12</i>	No.	Driver <i>Heuden</i>		Poz. Mix			
Bulktrk	No.	Driver <i>Lisio</i>		Gel. <i>8</i>			
JOB SERVICES & REMARKS				Calcium <i>14</i>			
Remarks:				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers <i>1 14 17</i>				Kol-Seal			
Baskets <i>2 15 18</i>				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
<i>Cement did Circulate</i>				Sand			
				Handling <i>402</i>			
				Mileage			
FLOAT EQUIPMENT							
				Guide Shoe			
				Centralizer <i>3</i>			
				Baskets <i>3</i>			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				<i>Baffle Plate</i>			
				<i>Rubber Plug</i>			
				Pumptrk Charge <i>1309 Surface</i>			
				Mileage <i>23</i>			
X Signature <i>[Signature]</i>				Tax			
				Discount			
				Total Charge			



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: 3/15/2011
 Invoice # 4931

P.O.#:
 Due Date: 4/14/2011
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 3111 W. 10th Street
 Great Bend, KS 67503

Reference:
 THOMAS FUNK 1-7

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	8200-145
Well/Prospect	THOMAS FUNK 1-7
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 743.54	No				
Common-Class A	111	\$ 1,470.27	Yes				
Bulk Truck Matl-Material Service Charge	191	\$ 414.74	No				
POZ Mix-Standard	74	\$ 369.58	Yes				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 249.21	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 145.83	No				
Premium Gel (Bentonite)	6	\$ 106.05	Yes				
Flo Seal	46	\$ 99.89	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	3,659.92
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(548.99)
<hr/>			
	SubTotal for Taxable Items:	\$	1,790.60
	SubTotal for Non-Taxable Items:	\$	688.32
<hr/>			
	Total:	\$	3,110.93
	Tax:	\$	130.71
<hr/>			
	Amount Due:	\$	3,241.65
	Applied Payments:		
	Balance Due:	\$	3,241.65

7.30% Barton County Sales Tax

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. 4931

Date	3-11-11	Sec.	7	Twp.	16	Range	15	County	Barton	State	KS	On Location		Finish	12:00 AM
Lease	THOMAS FUNK			Well No.	1-7			Location	Carmen S Corline 1E 1/2 S W into						
Contractor	D. Scoville #2							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	Rotary Plug							Charge To	Sam Cary Jr & Associate						
Hole Size	7 7/8			T.D.	3610			Street							
Csg.								Depth							
Tbg. Size								Depth							
Tool								City	State						
Cement Left in Csg.								Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line								Displace	Cement Amount Ordered 185 69/40 49/del 1/4 #10						

EQUIPMENT

Pumptrk	9	No.	Cementor	Craig	Common	111
			Helper			
Bulktrk		No.	Driver	Paul	Poz. Mix	74
			Driver			
Bulktrk	3	No.	Driver	CRISCO	Gel.	6
			Driver			

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 305K	Hulls
Mouse Hole 155K	Salt
Centralizers	Flowseal 46
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st 3490 255K	CFL-117 or CD110 CAF 38
2nd 1090 255K	Sand
3rd 400 80.5K	Handling 191
4th 40 105K	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	8 5/8 wooden Plug
AFU Inserts	
Float Shoe	
Latch-Down	

Pumptrk Charge	Plug
Mileage	23
Tax	
Discount	
Total Charge	

X Signature *[Handwritten Signature]*



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

Well Name: Thomas-Funk 1-7
Location: SEC 7, 16S, 15W, Barton , Kansas
License Number: 15-009-25521-0000
Spud Date: 03/04/2011
Surface Coordinates: 1550' FNL & 950' FEL
Region: Wildcat
Drilling Completed: 03/10/11

Bottom Hole Coordinates:

Ground Elevation (ft): 1933' K.B. Elevation (ft): 1941'
Logged Interval (ft): 1734' To: 3610' Total Depth (ft): 3610'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

OPERATOR

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

GEOLOGIST

Name: Rodney Napier
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-282-8377

Circulating Report

START UNMANNED UNIT @ 1734' ON 03/06/11 BY RODNEY NAPIER
START ONE MANNED UNIT 03/07/11
CFS/CTCH 3230' 20,40,60 TOTAL 1.5
CTCH AFTER SHORT TRIP 1 HR
CFS 3266' 20,40,60
RTD 3610' 03/10/11
CFS/CTCH 20,40,60 TOTAL 1.5 HRS
CFS 3322' 20,40,60
CFS 3422' 20,40,60 TOTAL 1.5 HRS
CFS 3510 20,40,60
3510' SHORT TRIP 15 STANDS
TIH TO 3510' CTCH 1 HR
TOH DST#1 BACK ON BOTTOM 10:30 PM 03/09/11

DST's Report

DST#1 3438'-3510' 72' ANCHOR

IFP:STRONG BLOW I MIN, ISIP SURFACE BLOW BACK

FFP STRONG BLOW 2 MIN,FSIP NO BLOW BACL

RECOVERY 170' MW,248' WATER TOTAL 418' BHT 96 DEG CLORIDES 23,000

IH:1660,FIF:79,FFF:138,ISI:219,SIF:180,SFF:218,FSI:220, FH:1619

TIMES 5,60,30,90

DST#2 TEST COMMENTS

IFP- 10 min -surface bl , died in 6min

ISIP- 60 min - no bl bk


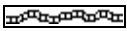
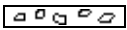

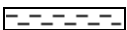

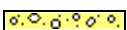
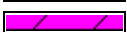
FFP- 20 min - surface bl, died in 10 min





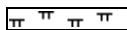

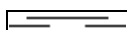
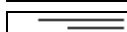
FSIP- 90 min - no bl bk

TIME	PRES	TEMP	ANNOTATION
0	1600.91	90.76	Initial Hydro-static
3	16.67	90.07	Open To Flow (1)
13	19.51	90.35	Shut-In(1)
73	994.44	90.96	End Shut-In(1)
74	21.16	90.80	Open To Flow (2)
95	24.92	90.98	Shut-In(2)
184	949.53	91.84	End Shut-In(2)
191	1589.23	92.09	Final Hydro-static







RECOVERY 5' MUD

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandy lms
	Shale
	Sltstn
	Shlyslts
	Sltlysh
	Lms

ACCESSORIES

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

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

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

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

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

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

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

OTHER SYMBOLS

- POROSITY TYPE**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint
 - Vuggy

- SORTING**
- Well
 - Moderate
 - Poor

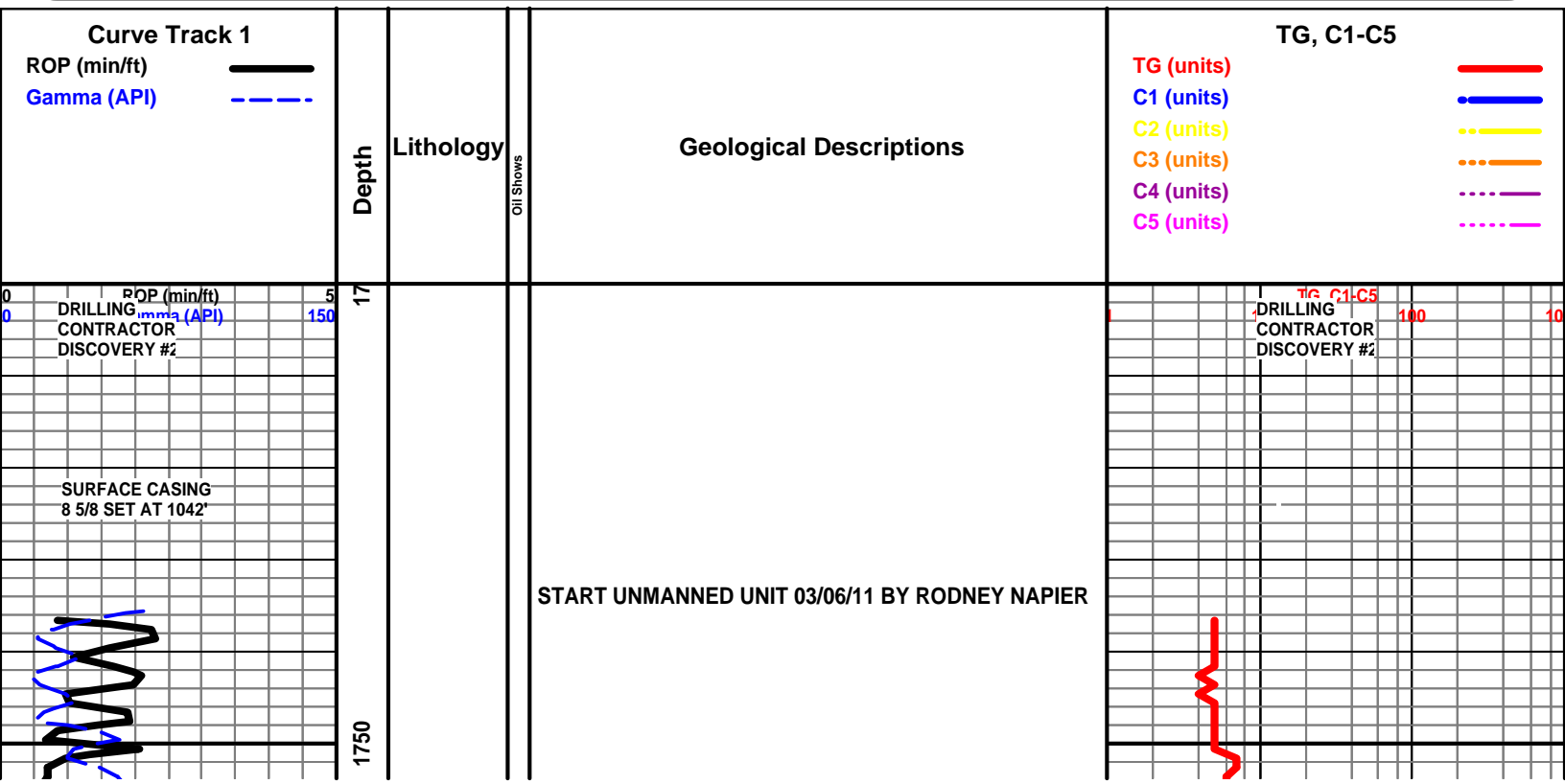
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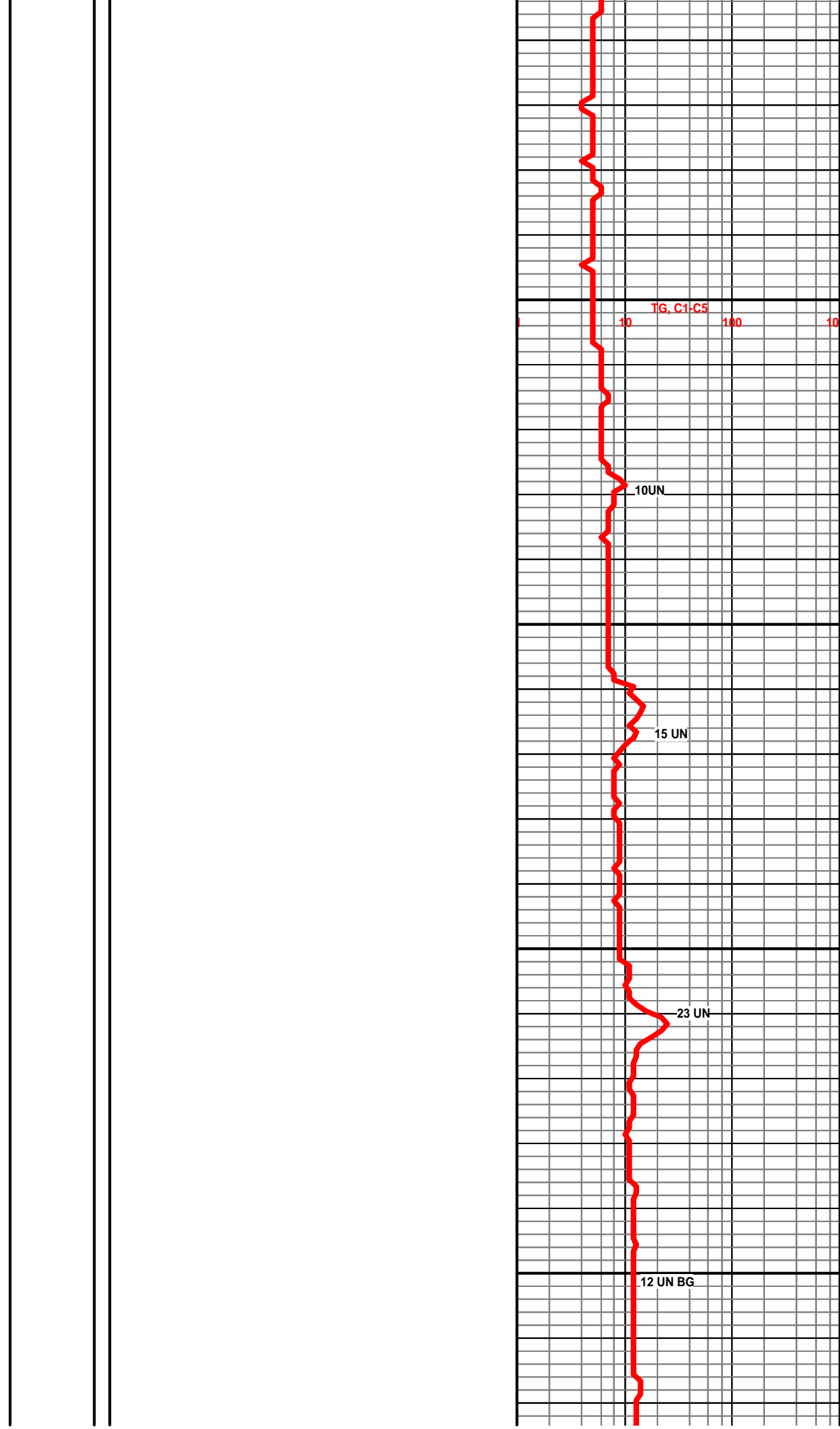
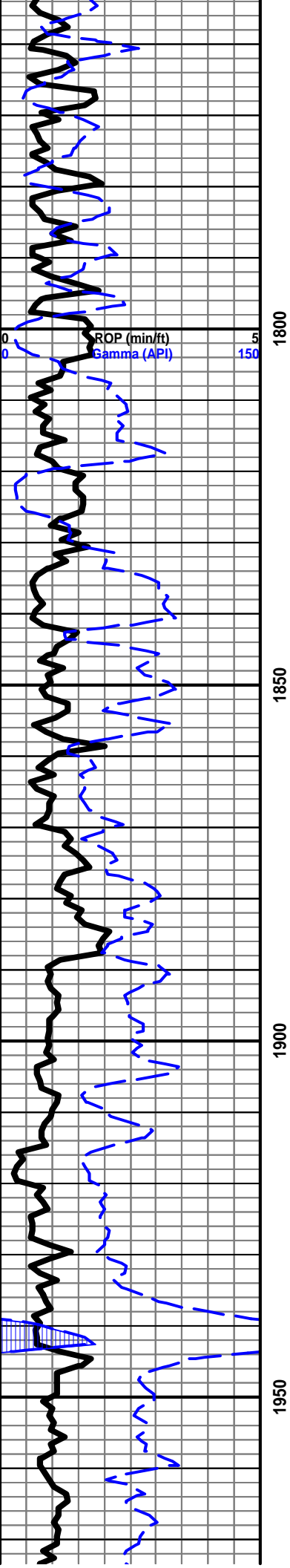
- INTERVALS**
- Core
 - Dst
 - Dst

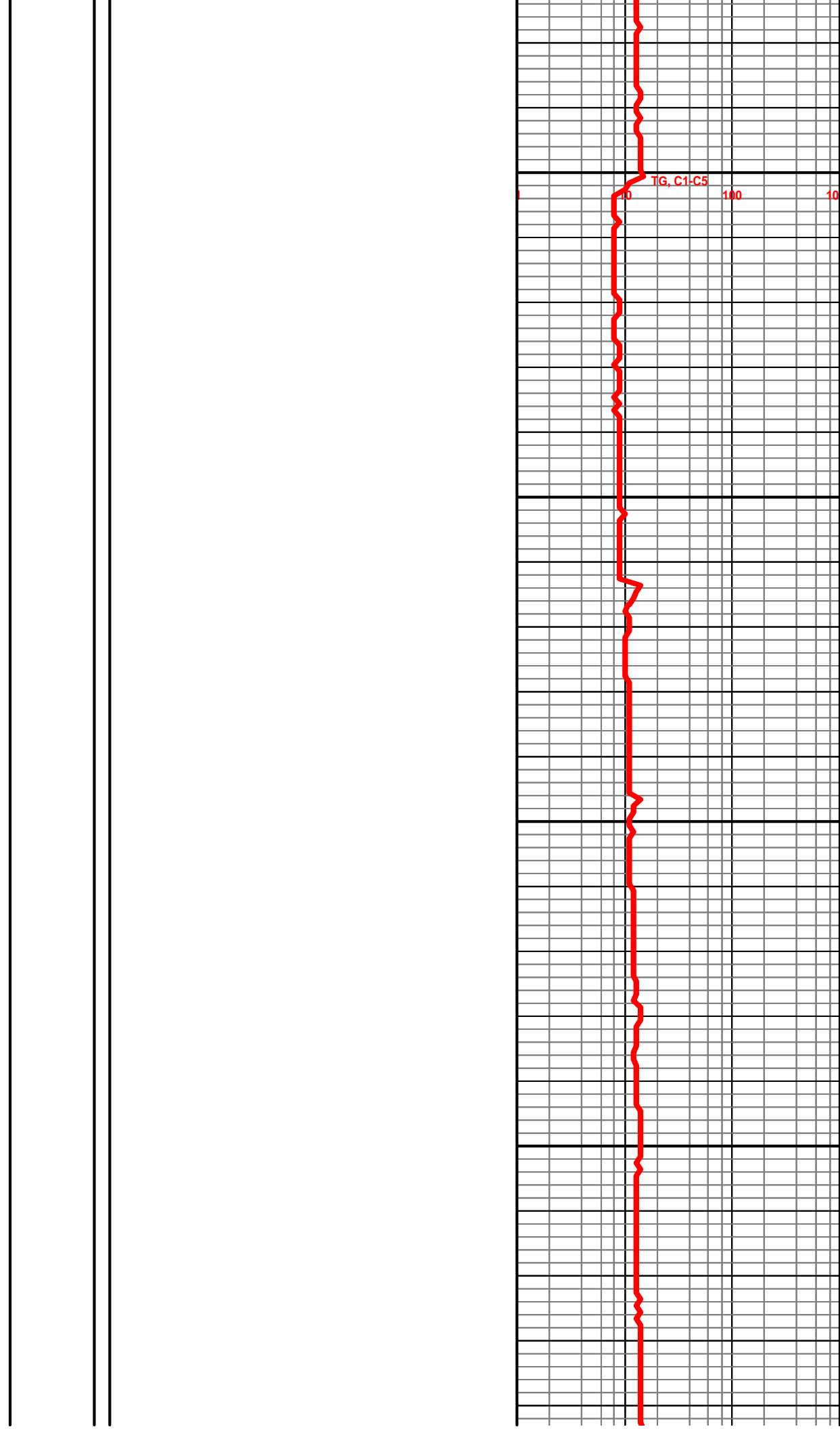
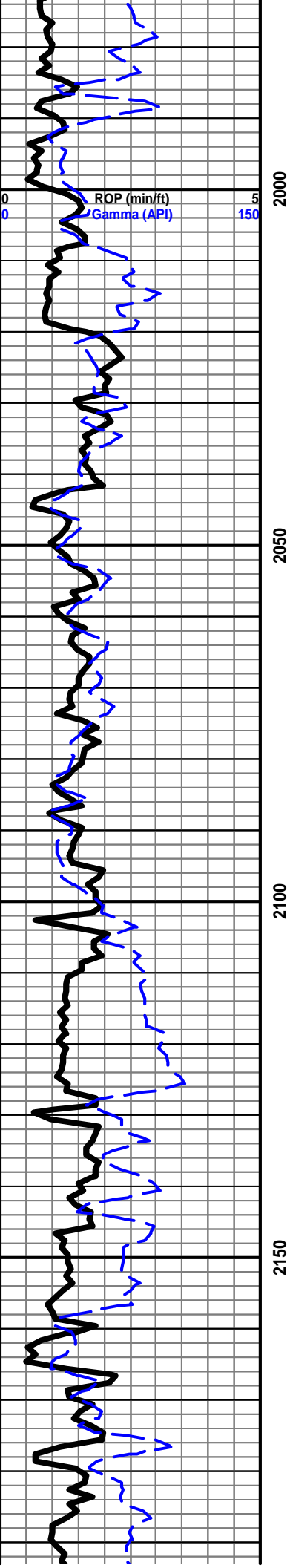
- ROUNDING**
- Rounded
 - Subrnd
 - Subang

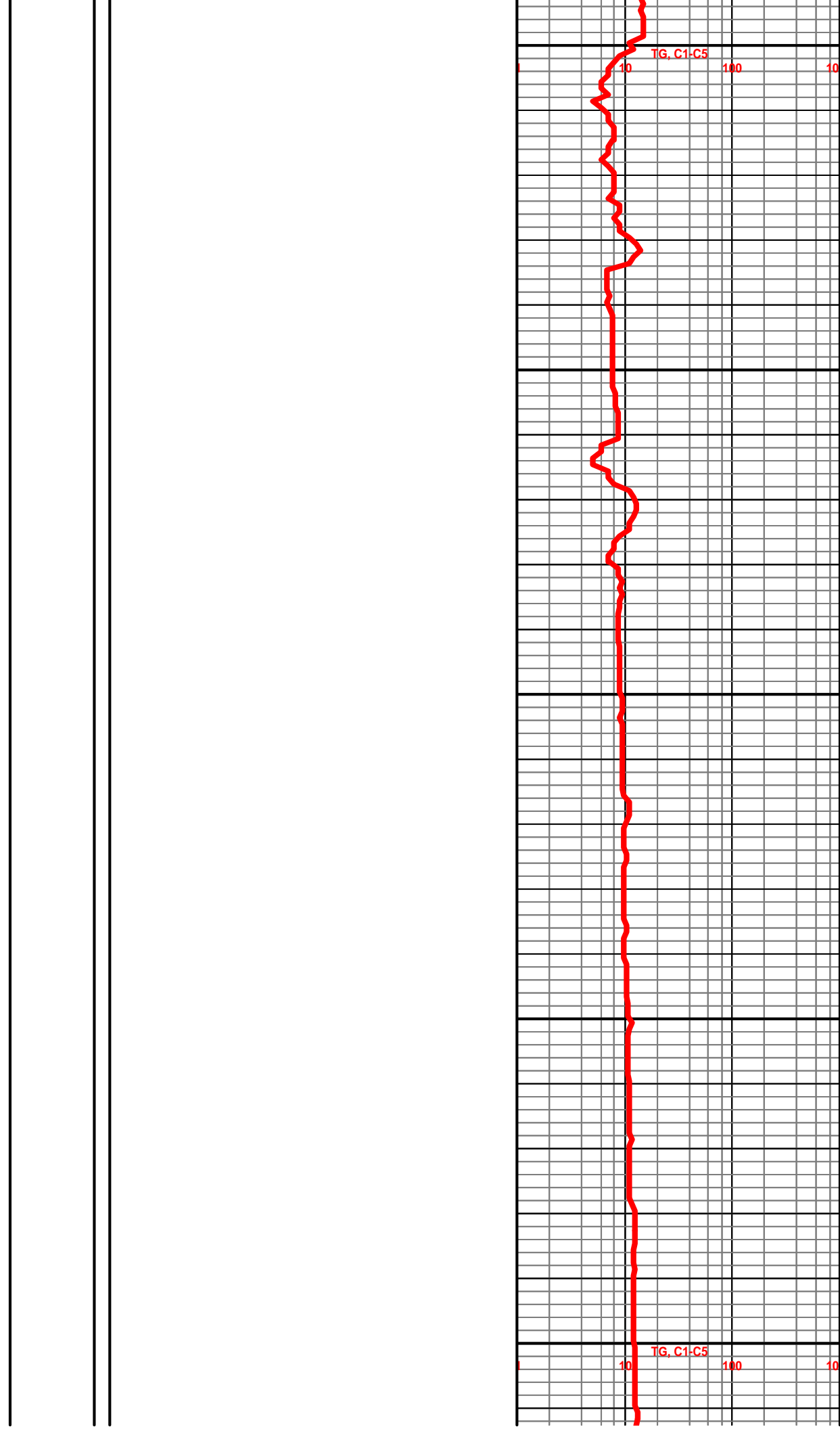
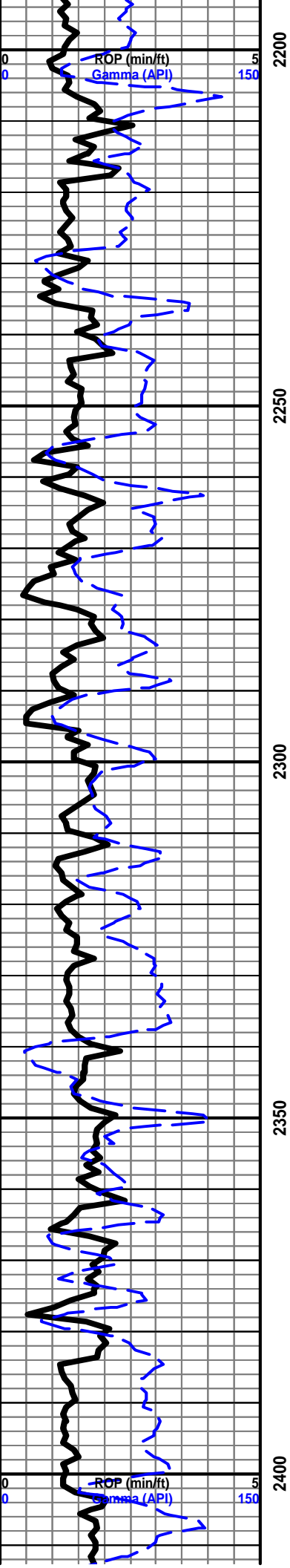
- OIL SHOWS**
- Even
 - Spotted
 - Ques
 - Dead
 - Gas show

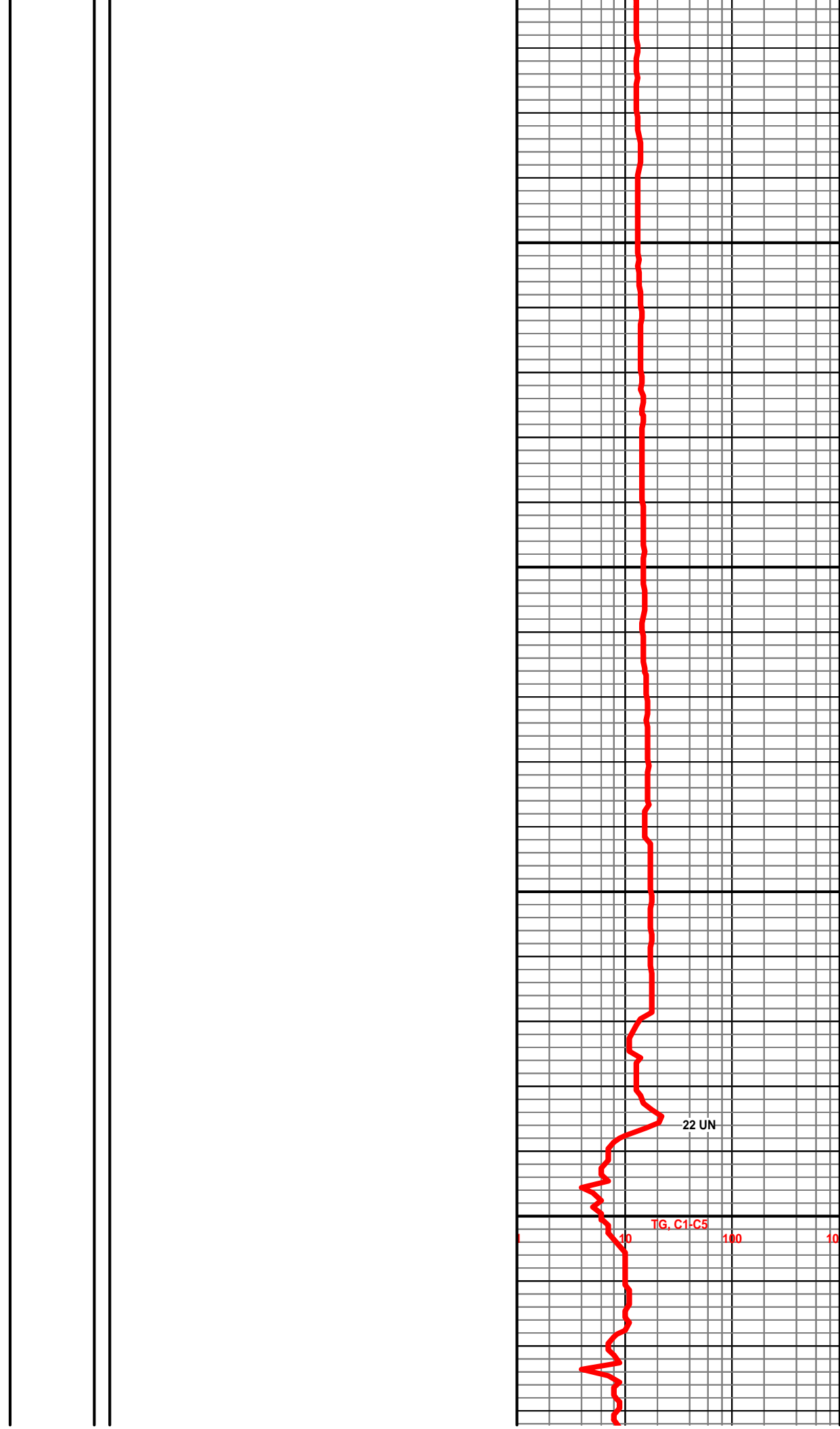
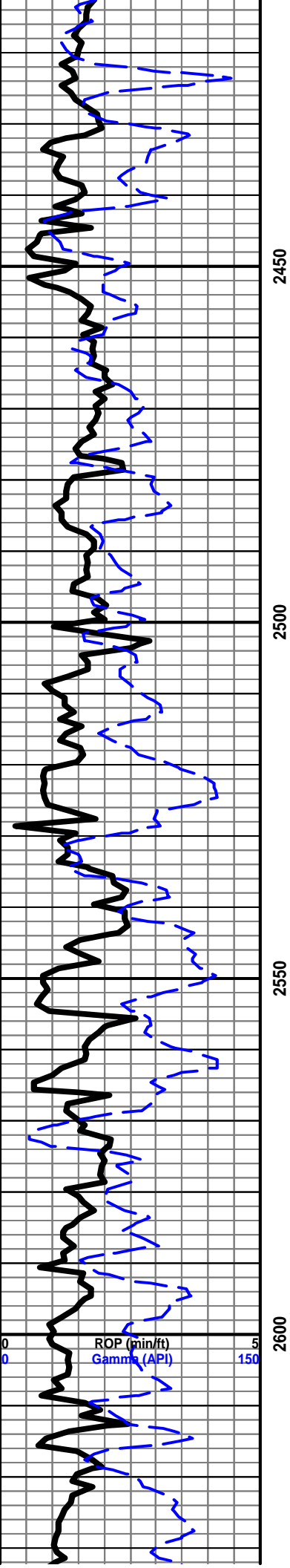
- EVENTS**
- Rft
 - Sidewall

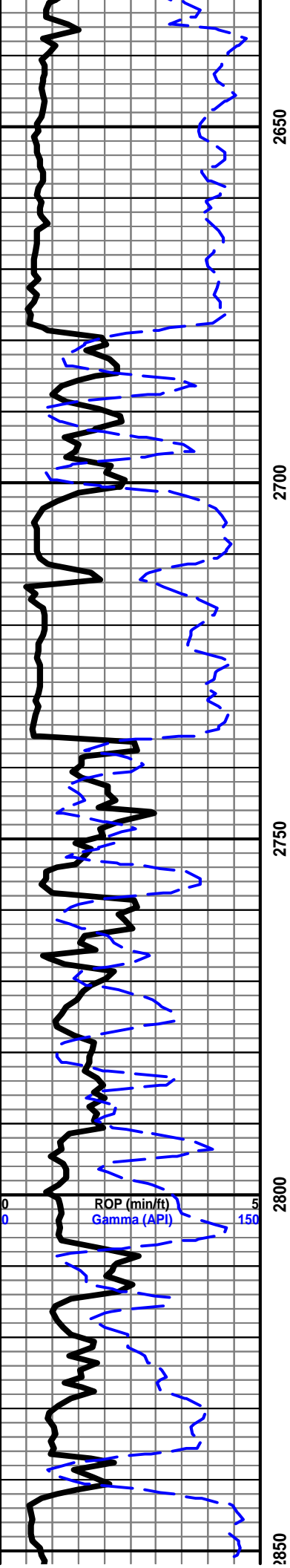




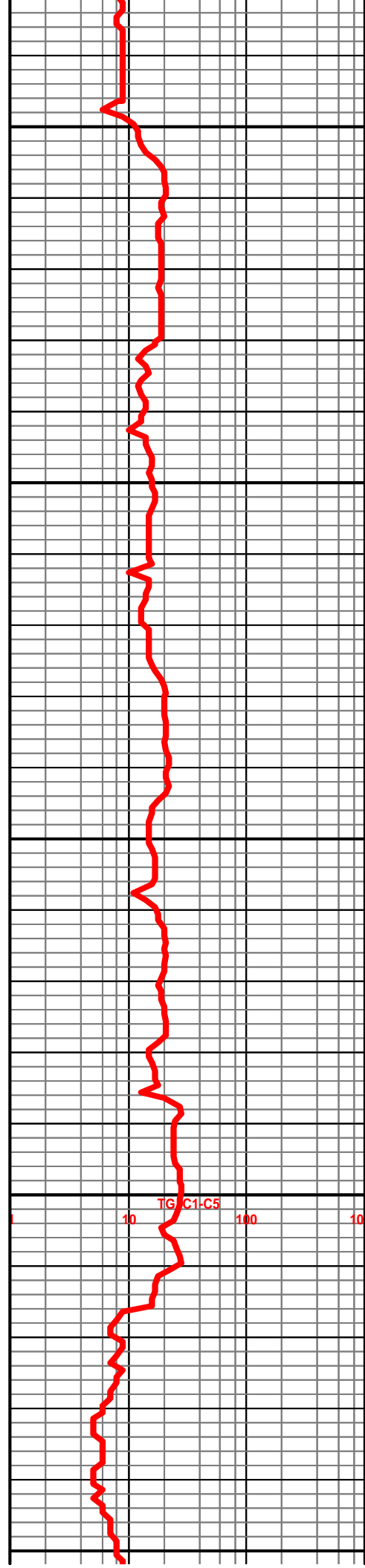


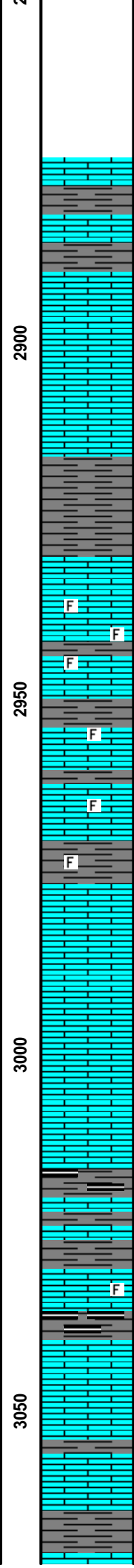
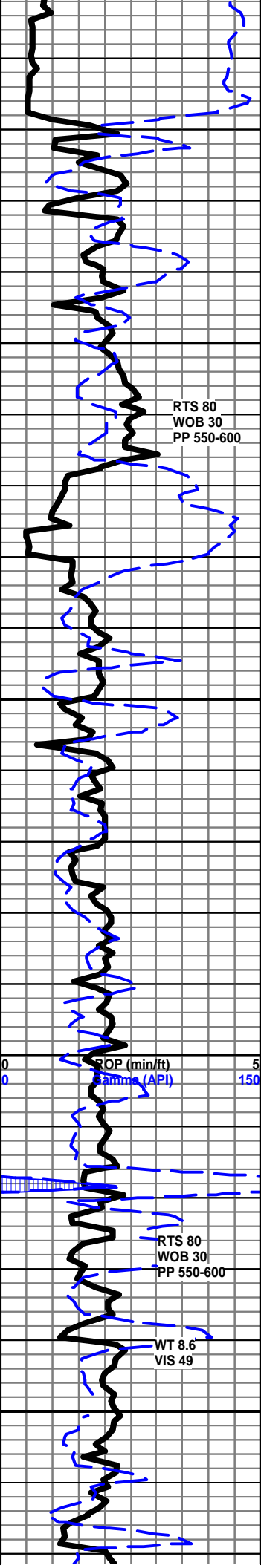






BASE ROOT SHALE 2678' -737'





HOWARD 2867' -926'
 SH DK GRY TO GRYSLTLY FRM SMOOTH SPLNTY

START ONE MANNED UNIT 03/07/11
 LS LT GRY TN LT TN BUFF HD DN BRITT VVFN TO FN
 XLN MTX DISS GRY SH IP NO FLO NO VIS POR NO VIS
 SHOW

SEVERY 2916' -975'
 SH GRY TO LT GRYSMOOTH SPLNTY TO VRY LT GRY
 SFT SILTY THRU

TOPEKA 2930' -989'
 LS TN LT TN CRM BUFF MOTT HD TO FRM BRITT VFN TO
 FN XLN MTX IMBD FOSS TR LOOSE FOSS FRG IN TRAY
 NO FLO NO VIS POR NO VIS SHOW

LS LT GRY TN LT TN CRM BUFF MOTT TR IMBD PYR IP
 TO TR IMBD FOSS DISS GRY SH NO FLO NO VIS POR NO
 VIS SHOW

SH GRY LT BRN FRM BLKY CALC TO LMY WITH IMBD
 FOSS IP

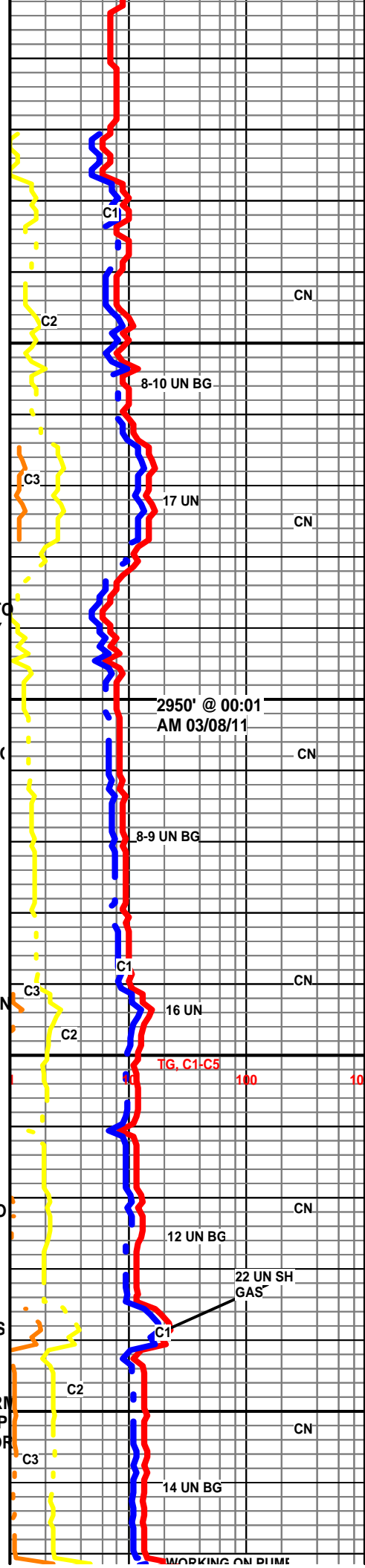
LS LT TN CRM BUFF HD TO FRM BRITT VVFN TO FN XLN
 MTX RE-XLN MTX SUCROT XT IP IMBD FOSS IP
 SUB-CHLKY IP TR POOR PP TO MICRO PP POR IP NO
 FLO NO VIS SHOW

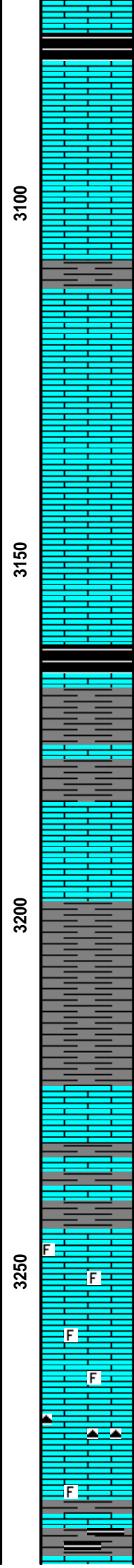
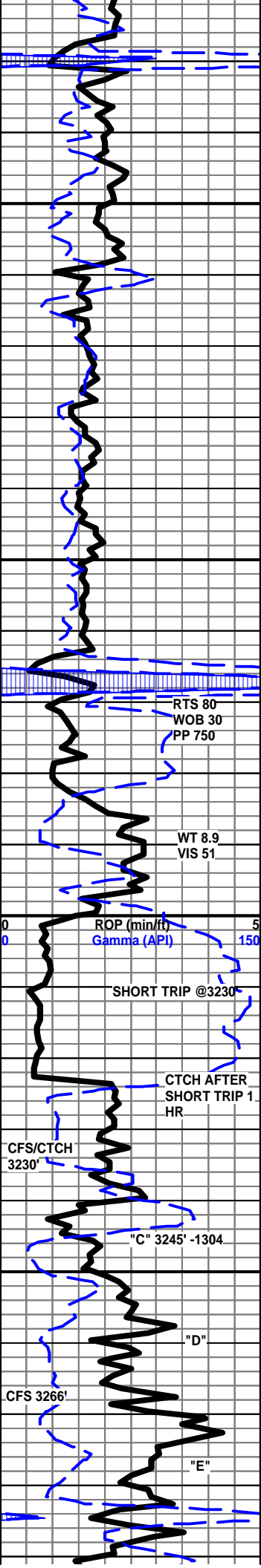
LS GRY LT GRY LT TN HD DN CRYPTO TO VVFN TO FN
 XLN MTX TR IMBD GRY SH TO DISS GRY SH NO FLO NO
 VIS POR NO VIS SHOW

LE COMPTON 3040' -1099'
 SH DK GRY TO GRY SMOOTH BRITT WITH BLK CARB S
 IP

LS LT GRY TN LT TN CRM BUFF TO OFF WHT HD TO FRM
 CRYPTO TO VVFN TO FN XLN MTX VR/SM IMBD FOSS IP
 TR LMNTD PYR IP SCATT LT DULL YLW FLO NO VIS POR
 NO VIS SHOW

SH DK GRY SLTLY SFT TO BRITT SMOOTH SPLNTY TO
 LMY





SH BLK CARB

LS LT GRY LT TN TO LT BRN FRM BRITT VFN TO FN XLN MTX TR IMBD FOSS SUCRO TXT WVR SM LS GRNS IMBD NO FLO NO VIS POR NO VIS SHOW

LS LT GRY TN LT TCRM BUFF HD DN BRITT CRYPTO TO VVFN TO FN XLN MTX SUCRO TXT IP SUB-CHLKY IP TR IMBD FOSS NO FLO TR POOR VUG TO SLT TR MICRO PI POR IP NO CUT NO VIS SHOW

LS GRY LT TN CRM BUFF TO OFF WHT HD DN FRM TO BRITT VFN TO FN XLN MTX RE-XLN MTX IP ONLY IMBD ABUNDT IMBD FOSS SUB-CHLKY IP TR PR TO FA VUG POR TO SLT TR MICRO PP POR IP SCATT LT YLW FLO IP NO CUT NO VIS SHOW

HEEBNER 3163' -1222'

SH BLK CARB

SH DK GRY TO GRY TO BRN FRM BLKY CALC TO LMY WITH DK GRY SMOOTH BRITT TO LMY

LS CRM BUFF TO OFF WHT HD DN TT CRYPTO XLN MTX DISS GRY SH NO FLO NO VIS POR NO VIS SHO

DOUGLAS 3199' -1258'

SH GRY LT GRY TO LT BRN SFT GUMMY TO SILTY THRU

LANSING 3222' -1281'

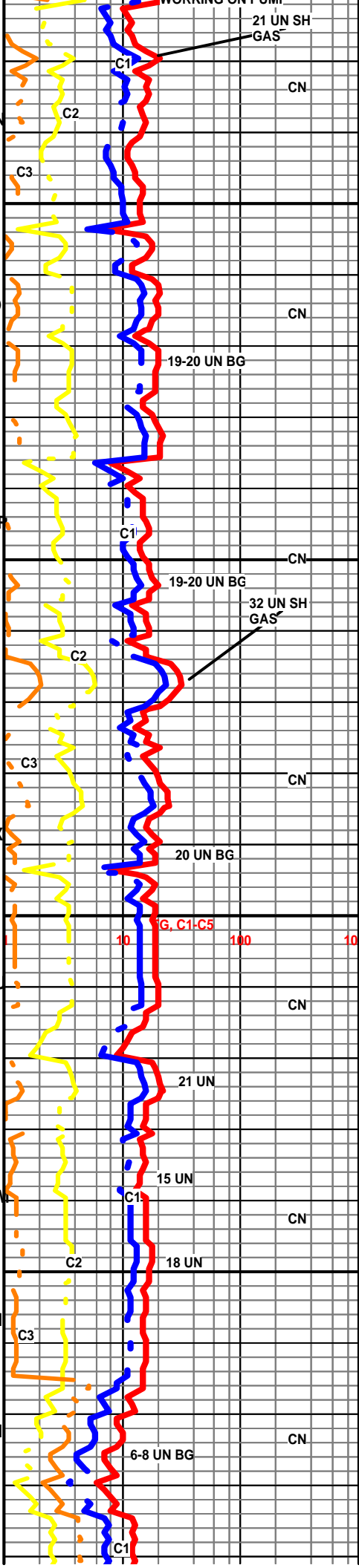
LS LT TN LT BRN CRM BUFF HD DN BRITT CRYPTO TO VVFN TO FN XLN MTX SLT TR CALC XLS IP TR IMBD FOSS IP SCATT VRY DULL YLW FLO 30% TR LT DEAD OIL STAIN ON TWO ROCKS NO VIS POR NO CUT NO VIS SHOW

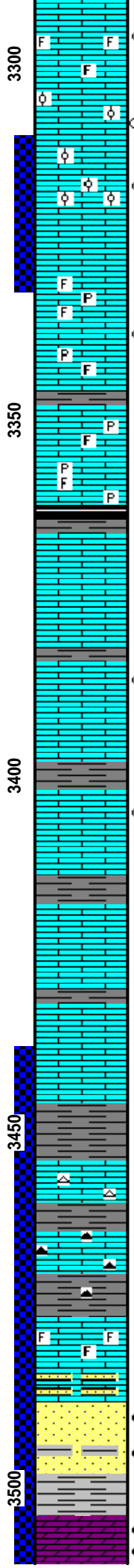
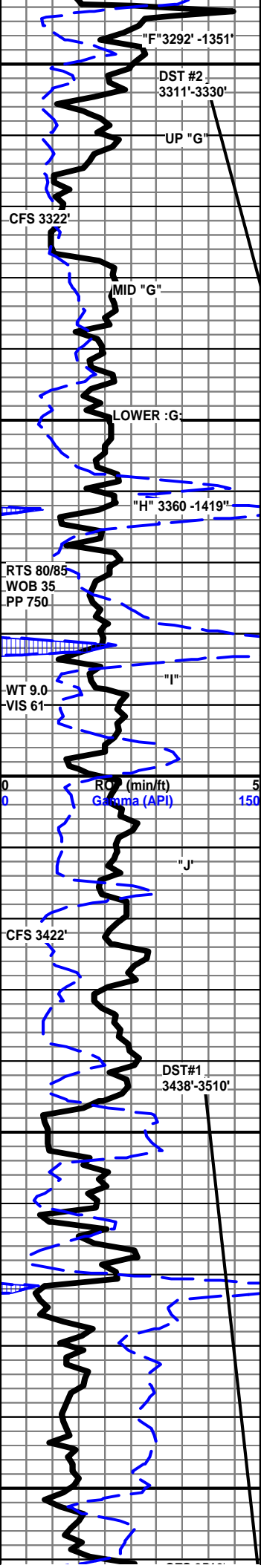
LS CRM LT TN BUFF HD FRM VFN TO FN XLN MTX VR/SM IMBD QRTZ XLS TR IMBD FOSS SUCRO TXT IP TO PCS HRD FRM CHLK IP VRY/PR TO PR INTER XLN POR IP TO TR MICRO PP POR DULL YLW FL 30% NO STAIN FAINT ODOR NO CUT NO VIS SHOW

LS GRY DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS FRG SCATT DULL LT YLW FLO NO ODOR NO STAIN NO VIS POR NO CUT NO VIS SHOW

LS CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN TO FN XLN MTX RE-XLN MTX TR IMBD FOSS IP TO TR IMBD PYR IP TR DK GRN CHERT IP NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY FRM SMOOTH BRITT LMY TO SFT SPLNTY WITH TR BLK SH IP





3292'-3300' LS DK TN TO TN LT TN CRN BUFF HD TO FRM BRITT VFN TO FN XLN MTX RE-XLN MTX IP IMBD FOSS SUB-CHLKY TR IMBD CALC XLS IP NO ODOR DULL LT YLW FLO 25% TR VRY FAINT LT BRN OIL STAIN ON (3) ROCKS POSS TT INTER XLN POR TO TR POOR VUG POR IP TO NO POR VRY POOR FAINT FLUSH CUT VRY LT YLW RING CUT

3303'-3326' LS L T TN CRM BUFF TO OFF WHT HD FRM BRITT VFN TO FN XLN MTX RE-XLN MTX IMBD OOLITES TO TR LOOSE FOSS FRG SF WHT GUMMY CHLK VRY PR TO PR TO TR FAIR INTER XLN POR OOMOLDIC IP TO PR TO FAIR MICRO PP TO PP POR POSS TT INTER FOSS POR LT YLW FLO 40% SLT TR STAIN 10% FAINT TO POOR ODC PR FLUSH CUT TO VRY PR SLOW MILKY BLUE STREAM CUT FROM 2 ROCKS LT YLW RING CUT

LS LT TN CRM BUFF TO OFF WHT FN XLN MTX RE-XLN MTX TR IMBD CALC XLS TR CALC XL CLUSTERS IP TR LMNTD PYR POSS TT INTER XLN POR NO STAIN BRITE YLW FLO 10% VRY PR FAINT FLUSH CUT TO NO CU'

LS TN LT TN CRM BUFF TO OFF WHT VFN TO FN XLN MTX TR IMBD FOSS TR IMBD PYR TO PYR NODULES IN TRAY SCATT LT YLW FLO NO ODOR NO VIS POR NO STAIN NO CUT NO VIS SHOW

SH BLK CARB WITH DK GRY SFT SPLNTY

LS GRY LT GRY DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR LOOSE FOSS FRG IN TRAY DISS GRY SH IP SCATT LT YLW FLO NO VIS POR NOCUT NO VIS SHOW

LS CRM BUFF TO OFF WHT HD DN FRM BRITT VFN TO FN XLN MTX RE-XLN MTX TR IMBD CALC XLS TO TR IMBD QRTZ XLS TR IMBD FOSS IP TR HD FRM CHLK IP LT YLW FLO 20% TO VRY DULL GLDN YLW FLO 10% SL TR VRY LT TN OIL STAIN 3 ROCKS NO ODOR VRY PR FAINT FLUSH CUT TO FAINT LT YLW RING CUT

SH GRY TO LT BRN FRM SMOOTH BRITT TO LMY

LS CRM BUFF TO OFF WHT LT TN HD DN CRYPTO TO VVFN XLN MTX TR IMBD VRY SM MICRO OOLITES IP TR IMBD CALC XLS IP LT YLW FLO 45% STAIN 10% TR VUG POR 5% TO TR PP AND MICRO PP POR FAINT TO POOR ODOR IN 40 MIN SMPLE FAINT TO PR FLUSH CUT LT YLW RING CUT

LS CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX NO FLO NO VI POR NO VIS SHOV

LS CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN TO FN XLN MTX RE-XLN MTX TR IMBD FOSS IP TO TR IMBD PYR IP NO FLO NO VIS POR NO VIS SHOW

BKC 3446' -1505'

SH DK GRY TO GRY DK BRN SLTLY FRM SFT SILTY

LS DK TN TO TN CRM BUFF HD DN TT CRYPTO TO VVFN XLN MTX DISS GRY TO BRN SH TR PYR NODULES IN TRAY TR DK TN TO ORNG OPAQUE CHERT NO FLO NO VIS POR NO VIS SHOW

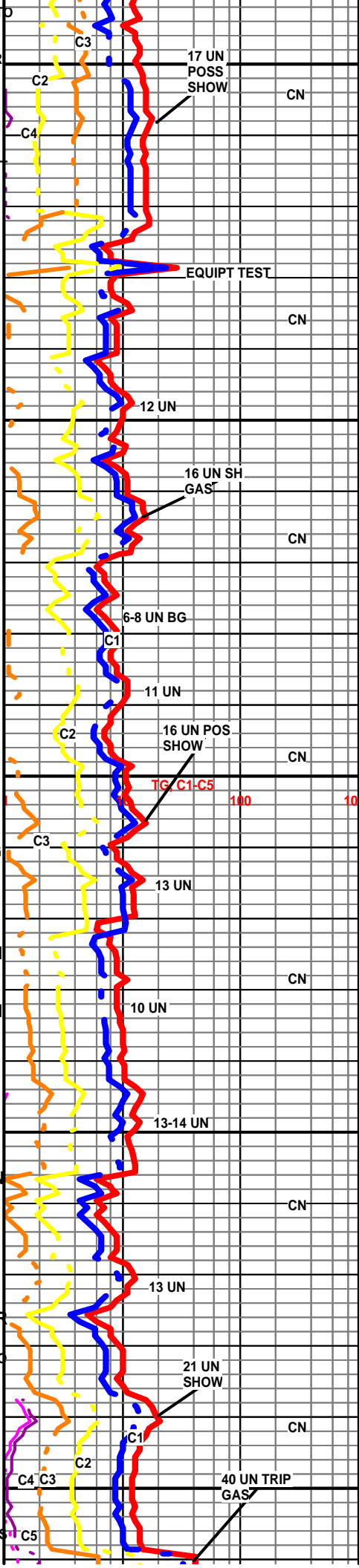
LS CRM BUFF LT TN HD FRM DN VVFN TO FN XLN MTX SUCRO TXT IP PCS HD FRM CHLK TR IMBD FOSS TR IMBD CLR VRY/SM TO SM SS GRNS NO FLO POSS INTER XLN POR NO ODOR NO CUT NO VIS SHOW

SS CLR TO LT TN DUE TO STAIN UNCON VRY/SM TO SM SUB-ANG TO SUB-RND LOOSE SS GRNS IN TRAY FRI FAIR SORT WITH GLDN YLW FLO TR OIL STAIN ON SOME S GRNS FAINT ODOR FAIR FLUSH CUT

SS CLR FSTY WHT FRM TO FRI SM TO MD ANG TO SUB-ANG TO SUB-RND SS GRNS WITH CALC CMNT TR IMBD SH TR GLAC FAIR TO POSS GOOD INTER GRAN POR GLDN YLW FLO THRU STAIN 40% INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CUT

ARBUCKLE 3503' -1562'

3504'-3510' DOL WHT TO OFF WHT HD TO FRM FN XLN MTX CLUSTERS OF SM TO MD AND LG ANG TO SUB-ANG DOL XLS THRU GLDN YLW FLO THRU PR FAIR TO GOOD INTER XLN POR STAIN 100% THRU WY



CFS 3510'
CTCH 30 MIN
AFTER DST#1

FLO THRU PR FAIR TO GOOD INTER XLN POR STAIN 100% THRU WIT
LIVE OIL ON ROCKS THRU GOOD TO EXCELLENT FLUSH CUT TO
GOOD STRONG MILKY BLUE STREAM CUT

3524' @ 00:01 AM
03/10/11

3510'-3516' DOL LT TN CRM BUFF HD DN TT VVFN TO FN XLN MTX
SUCRO TEXT THRU LT YLW FLO 45% TO GLDN YLW FLO 30# STAIN
20% NO VIS POR PR INSTANT FLUSH CUT

3516'-3524' DOL LT TN DUE TO STAIN CRM BUFF TO OFF WHT HD TO
FRM VFN TO FN XLN MTX RE-XLN MTX IMBD PYR IP TR IMBD CHLK IP
STAIN 25% LT YLW FLO 35% TR VUG POR TO PP AND MICRO PP POR
POSS TT INTER XLN POR PR ODOR FAINT TO PR INSTANT FLUSH CUT
TO SPOTTY MILKY BLUR STREAM CUT

3624'-3634' DOL CRM BUFF HD DN TO FRM VFN XLN MTX THRU SUCRO
TXT THRU SUB-CHLKY LT YLW FLO NO VIS POR NO CUT NO VIS SHOW

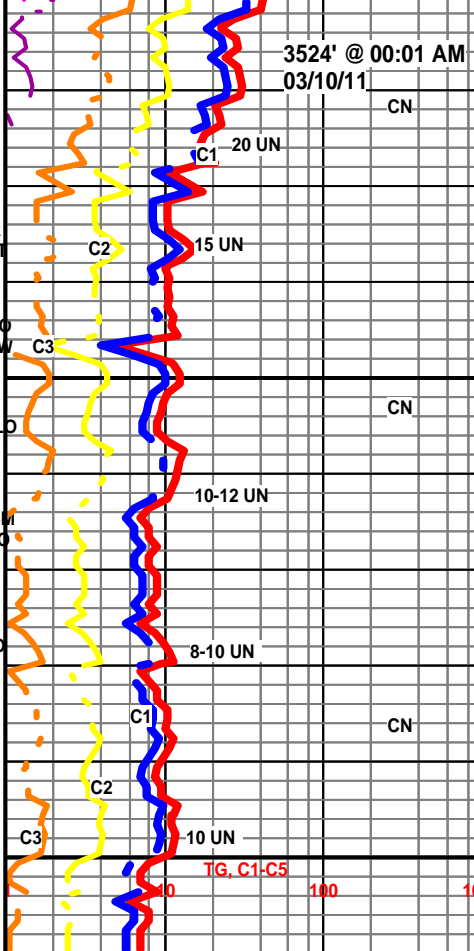
3634'-3650' DOL CRM BUFF TO OFF WHT VFN TO FN XLN MTX RE-XLN
MTX TR IMBD CLR VRY/SM DOL GRNS SUB-CHLKY SCATT LT YLW FLO
POSS INTER XLN TO TR MICRO PP POR NO ODOR NO CUT NO VIS
SHOW

3550'-3564' DOL OFF WHT TO WHT TO CLR VFN TO FN XLN MTX TR
LMNTD PYR CHLKY SFT WHT GUMMY CHLK IN TRAY TR CLUSTERS SM
SUB-ANG TO SUB-RND DOL XLS PR TO POSS FAIR INTER XLN POR TO
PP AND MIRO PP POR NO STAIN NO ODOR NO CUT NO VIS SHOW

3564'-3570' DOL CRM TO OFF WHT DHD DN TT CRYPTO TO VVFN XLN
MTX TR WHT TO TRANSLUCENT CHERT TR IP NO FLO NO VIS POR NO
VIS SHOW

3570'-3590' DOL OFF WHT TO WHT VFN TO FN XLN MTX TR IMBD
OOLITES IP SUB-CHLKY TO CHLKY TR LMNTD PYR NO FLO PR TO TR
FAIR INTER XLN POR VRY DULL LT YLW FLO NO ODOR NO STAIN NO
CUT NO VIS SHOW

3590'-3610' DOL OFF WHT TO WHT CRM IP FN XLN MTX SUCRO TXT
WITH IMBD CLR SUB-RND TO RND DOL GRNS IMBD CHLKY NO FLO
POSS INTER XLN POR NO ODOR NO STAIN NO CUT NO VIS SHOW



3550

3600

3650

RTS 80
WOB 35
PP 800

WT 9.0
VIS 69

ROP (min/ft)
Gamma (API)

CFS/CTCH TOTAL 1.5
HRS

TOH FOR LOGS

RTD 3610' 2:45 AM 03/10/11

LOGS BY WAETHERFORD

LIBERAL KS.

THANK YOU FOR CHOOSING EARTHTECH

LOGS COMPLETED BY RODNEY NAPIER

SAMPLES WILL BE
DELIVERED TO KGS
AS REQUESTED



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr. & Associates Inc

Thomas Funk #1-7

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

7-16s-15w Barton

Job Ticket: 41897 **DST#: 1**

Test Start: 2011.03.09 @ 13:25:00

GENERAL INFORMATION:

Formation: **Penn Sd / Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:15:30

Time Test Ended: 20:30:30

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 3438.00 ft (KB) To 3510.00 ft (KB) (TVD)

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1933.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 218.42 psig @ 3443.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.09

End Date: 2011.03.09

Last Calib.: 2011.03.09

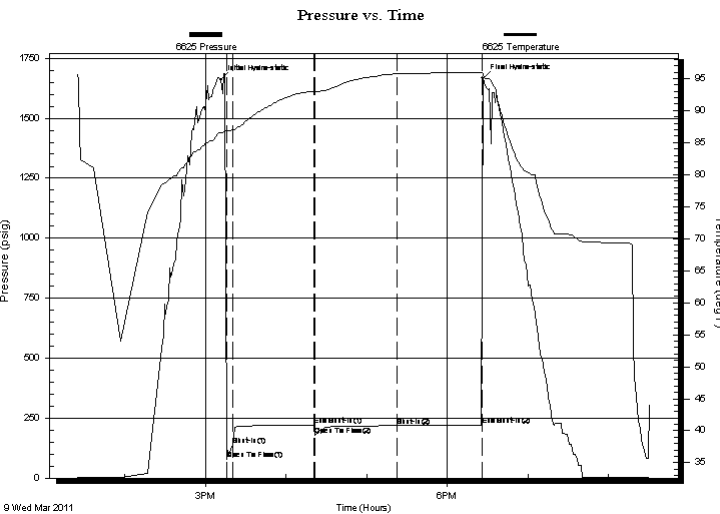
Start Time: 13:25:05

End Time: 20:30:29

Time On Btm: 2011.03.09 @ 15:11:30

Time Off Btm: 2011.03.09 @ 18:26:29

TEST COMMENT: IFP-5 min - strg bl in 1 min
ISIP-60 min - surface bl bk
FFP-30 min - strg bl in 2 min
FSIP-90 min - no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.99	86.57	Initial Hydro-static
4	79.26	86.75	Open To Flow (1)
9	138.59	86.99	Shut-In(1)
70	219.34	93.05	End Shut-In(1)
70	180.56	93.04	Open To Flow (2)
131	218.42	95.74	Shut-In(2)
194	220.44	95.96	End Shut-In(2)
195	1666.67	95.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	MW 25%M75%W	2.11
248.00	Water	3.48

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr. & Associates Inc
 1515 Wynkoop
 Ste 700
 Denver Co 80202
 ATTN: Clayton Camozzi

Thomas Funk #1-7
7-16s-15w Barton
 Job Ticket: 41897 **DST#: 1**
 Test Start: 2011.03.09 @ 13:25:00

GENERAL INFORMATION:

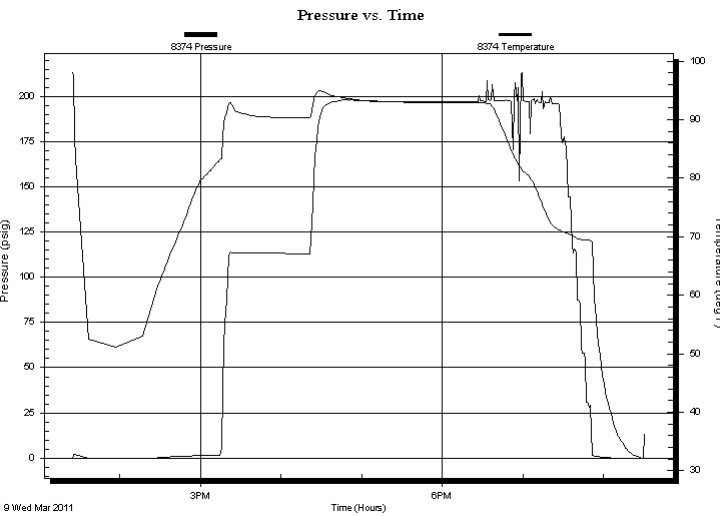
Formation: **Penn Sd / Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:15:30
 Time Test Ended: 20:30:30
 Interval: **3438.00 ft (KB) To 3510.00 ft (KB) (TVD)**
 Total Depth: 3510.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1941.00 ft (KB)
 1933.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8374

Fluid

Press @ Run Depth: psig @ 3407.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.09 End Date: 2011.03.09 Last Calib.: 2011.03.09
 Start Time: 13:25:01 End Time: 20:31:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-5 min - strg bl in 1 min
 ISIP-60 min - surface bl bk
 FFP-30 min - strg bl in 2 min
 FSIP-90 min - no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
170.00	MW 25%M75%W	2.11
248.00	Water	3.48

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Associates Inc

Thomas Funk #1-7

1515 Wynkoop
Ste 700
Denver Co 80202

7-16s-15w Barton

Job Ticket: 41897

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2011.03.09 @ 13:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
170.00	MW 25%M75%W	2.111
248.00	Water	3.479

Total Length: 418.00 ft Total Volume: 5.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

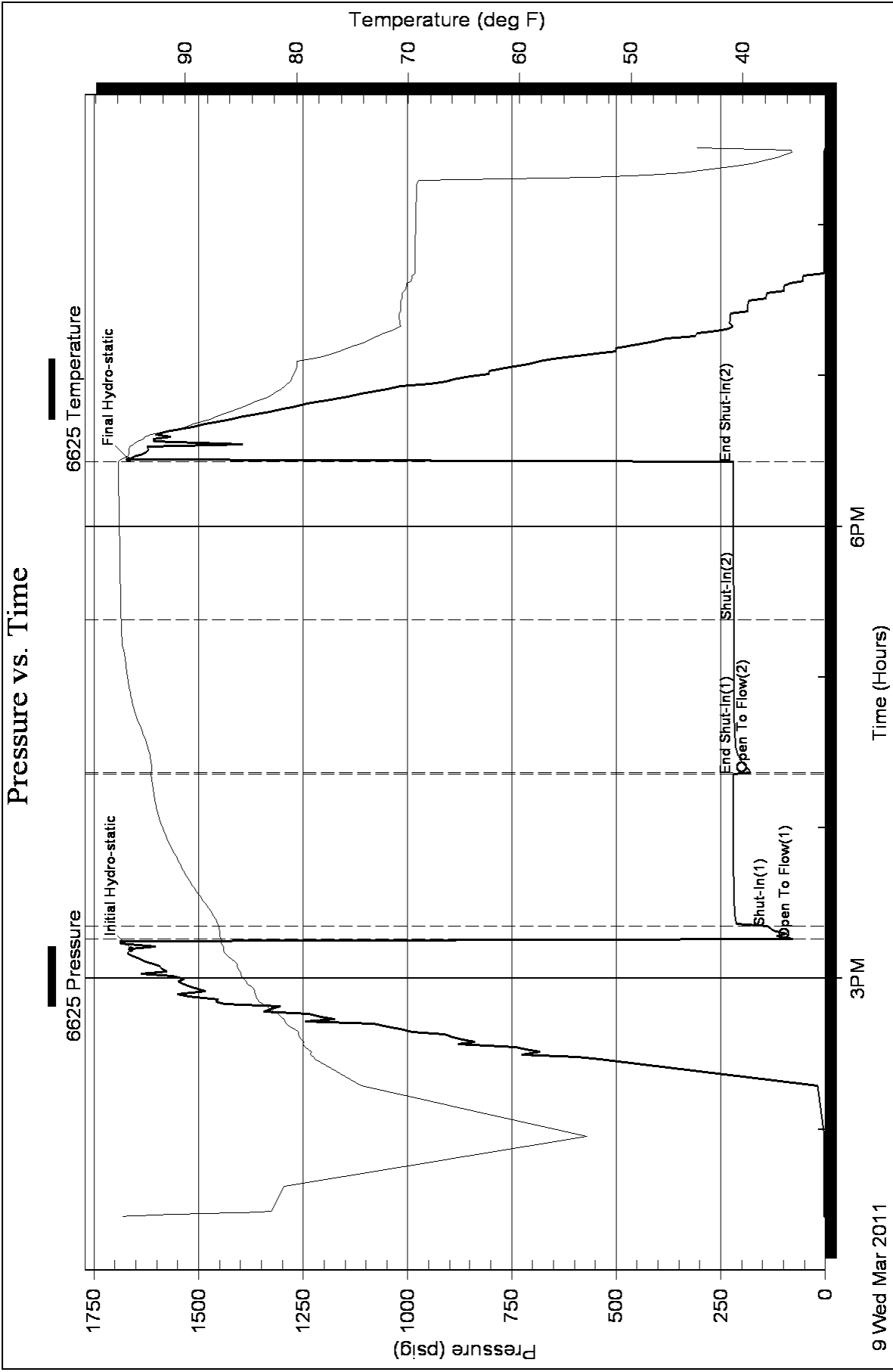
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data:PSI 240 3000MLwater
RW .4 @ 50F

Pressure vs. Time



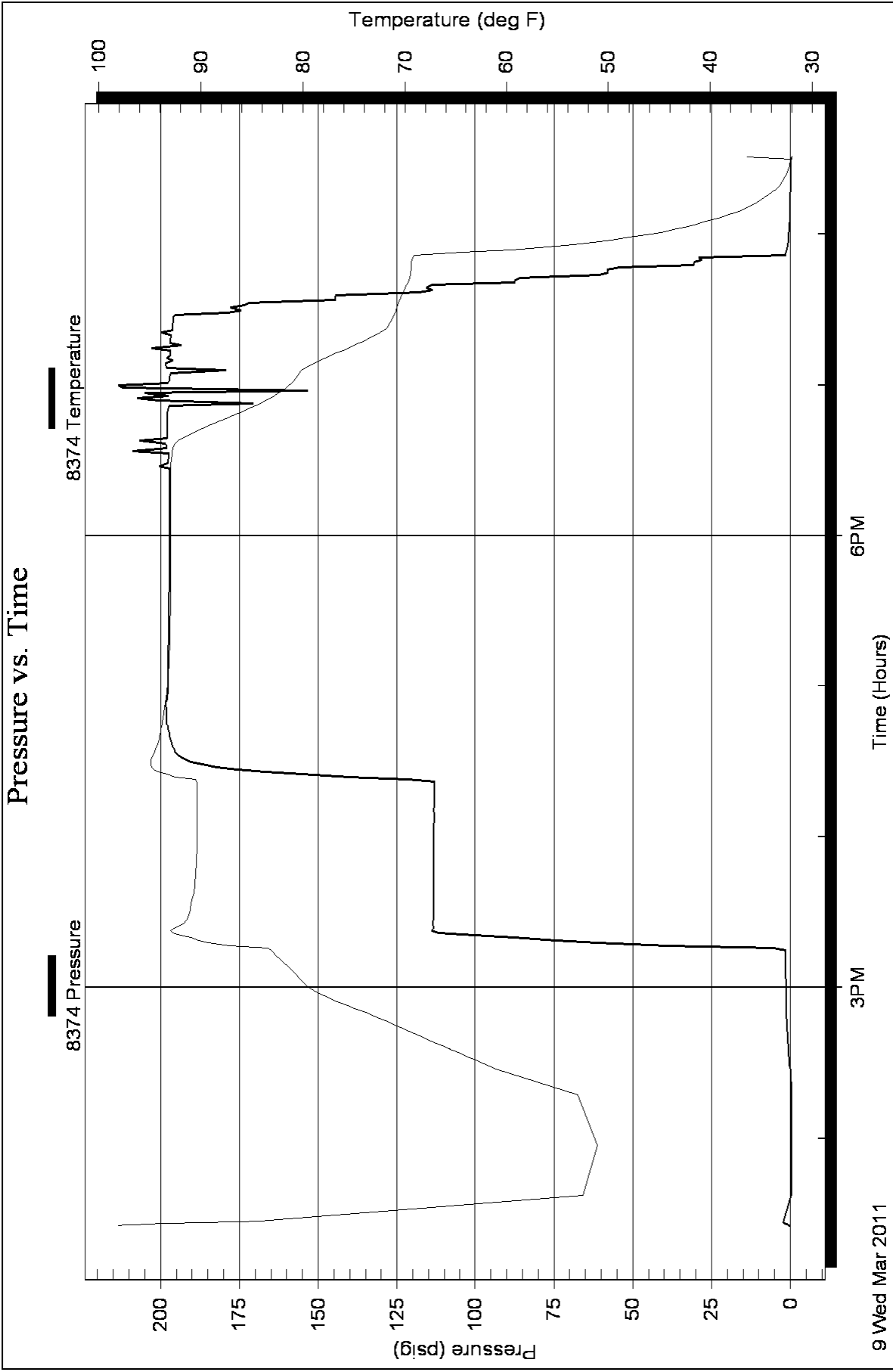
Serial #: 8374

Fluid

Sam Gary Jr. & Associates Inc

7-16s-15w Barton

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr. & Associates Inc

Thomas Funk #1-7

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

7-16s-15w Barton

Job Ticket: 41898 **DST#: 2**

Test Start: 2011.03.10 @ 11:00:00

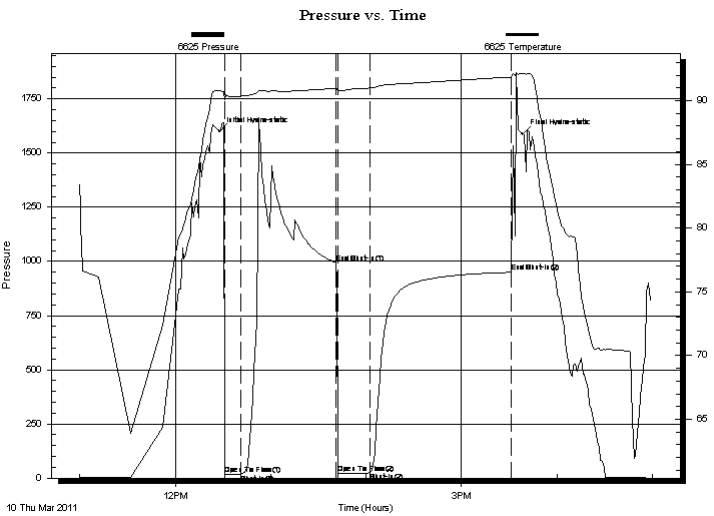
GENERAL INFORMATION:

Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:30:55
 Time Test Ended: 16:59:24
 Interval: **3311.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: 3612.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Straddle
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1941.00 ft (KB)
 1933.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 24.92 psig @ 3316.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.10 End Date: 2011.03.10 Last Calib.: 2011.03.10
 Start Time: 11:00:00 End Time: 16:59:24 Time On Btm: 2011.03.10 @ 12:27:55
 Time Off Btm: 2011.03.10 @ 15:38:24

TEST COMMENT: IFP- 10 min - surface bl, died in 6min
 ISIP- 60 min - no bl bk
 FFP- 20 min - surface bl, died in 10 min
 FSIP- 90 min - no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.91	90.76	Initial Hydro-static
3	16.67	90.07	Open To Flow (1)
13	19.51	90.35	Shut-In(1)
73	994.44	90.96	End Shut-In(1)
74	21.16	90.80	Open To Flow (2)
95	24.92	90.98	Shut-In(2)
184	949.53	91.84	End Shut-In(2)
191	1589.23	92.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr. & Associates Inc
1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Thomas Funk #1-7
7-16s-15w Barton
Job Ticket: 41898 **DST#: 2**
Test Start: 2011.03.10 @ 11:00:00

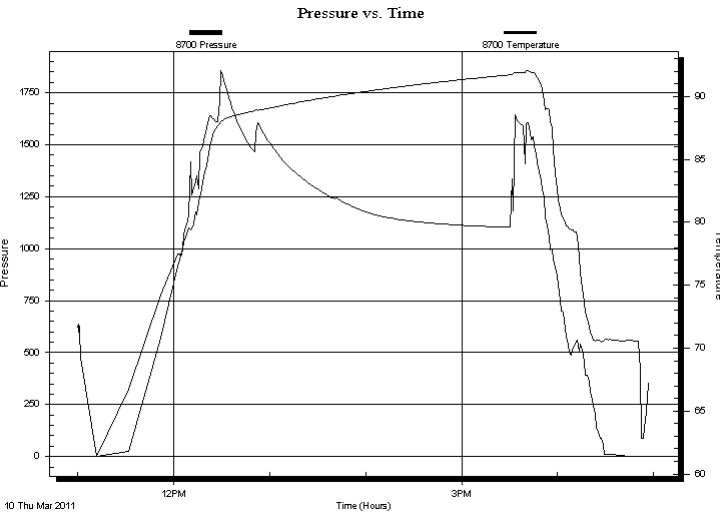
GENERAL INFORMATION:

Formation: LKC "G"	Test Type: Conventional Straddle
Deviated: No Whipstock: ft (KB)	Tester: Ray Schwager
Time Tool Opened: 12:30:55	Unit No: 42
Time Test Ended: 16:59:24	Reference Elevations: 1941.00 ft (KB)
Interval: 3311.00 ft (KB) To 3330.00 ft (KB) (TVD)	1933.00 ft (CF)
Total Depth: 3612.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.85 inches	Hole Condition: Fair

Serial #: 8700 Below (Straddle)

Press @ Run Depth: psig @ 3341.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2011.03.10 End Date: 2011.03.10	Last Calib.: 2011.03.10
Start Time: 11:00:05 End Time: 16:57:59	Time On Btm:
	Time Off Btm:

TEST COMMENT: IFP- 10 min - surface bl , died in 6min
ISIP- 60 min - no bl bk
FFP- 20 min - surface bl, died in 10 min
FSIP- 90 min - no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr. & Associates Inc
 1515 Wynkoop
 Ste 700
 Denver Co 80202
 ATTN: Clayton Camozzi

Thomas Funk #1-7
7-16s-15w Barton
 Job Ticket: 41898 **DST#: 2**
 Test Start: 2011.03.10 @ 11:00:00

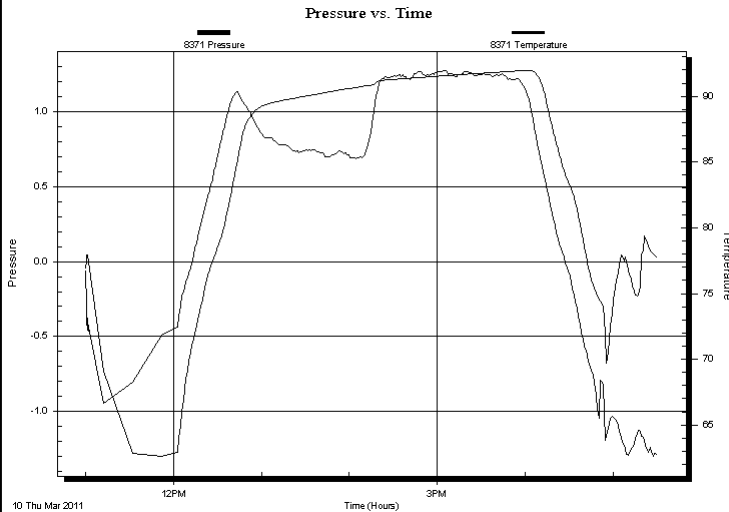
GENERAL INFORMATION:

Formation: LKC "G"	
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Straddle
Time Tool Opened: 12:30:55	Tester: Ray Schwager
Time Test Ended: 16:59:24	Unit No: 42
Interval: 3311.00 ft (KB) To 3330.00 ft (KB) (TVD)	Reference Elevations: 1941.00 ft (KB)
Total Depth: 3612.00 ft (KB) (TVD)	1933.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Fair	KB to GR/CF: 8.00 ft

Serial #: 8371 Fluid

Press @RunDepth: psig @ 3280.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2011.03.10 End Date: 2011.03.10	Last Calib.: 2011.03.10
Start Time: 11:00:01 End Time: 17:31:00	Time On Btm:
	Time Off Btm:

TEST COMMENT: IFP- 10 min -surface bl , died in 6min
 ISIP- 60 min - no bl bk
 FFP- 20 min - surface bl, died in 10 min
 FSIP- 90 min - no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Associates Inc

Thomas Funk #1-7

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

7-16s-15w Barton

Job Ticket: 41898

DST#: 2

Test Start: 2011.03.10 @ 11:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.13 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data:PSI 30 2500ML mud

