KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1049325

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: NEIL SHARP
Phone: (303) 831-4673
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: TIM HEDRICK
Purchaser: GARY WILLIAMS

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

09/19/2010	09/26/2010	09/26/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26026-00-00
Spot Description:
SW - SW - SE - NW Sec. 1 Twp. 15 S. R. 17 [ ] East [x] West
2500 Feet from [x] North / [ ] South Line of Section
1460 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Ellis
Lease Name: SCHUMACHER-DREILING Well #: 1-1
Field Name:
Producing Formation: LANSING
Elevation: Ground: 1932 Kelly Bushing: 1942
Total Depth: 3610 Plug Back Total Depth: 3507
Amount of Surface Pipe Set and Cemented at: 1085 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 66000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: CRAIG OIL COMPANY
Lease Name: RUBIN NUSS License #: 31341
Quarter NE Sec. 5 Twp. 16 S. R. 14 [ ] East [x] West
County: BARTON Permit #: D09153

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

- [x] Letter of Confidentiality Received
  Date: 01/13/2011
- [x] Confidential Release Date: 01/12/2013
- [x] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: NAOMI JAMES Date: 01/18/2011

Side Two

1049325

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: SCHUMACHER-DREILING Well #: 1-1

Sec. 1 Twp. 15 S. R. 17 ☐ East ☑ West County: Ellis

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
TOPEKA	2935	-993
HEEBNER	3160	-1218
DOUGLAS	3193	-1251
LANSING	3206	-1264
ARBUCKLE	3469	-1527
TD	3610	

CASING RECORD ☑ New ☐ 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
SURFACE	12.25	8.625	23	1085	CLASS A	425	3%CC, 2% GEL
PRODUCTION	7.875	5.5	15.5	3607	ECONOBOND	150	4%GEL, 2% CC

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 *(Amount and Kind of Material Used)*	Depth
4	3207'-10'	1250 GAL 20% NE	3207'-10'
4	3230'-34'	500 GAL MCA W/ 3% MAS	3230'-34'

TUBING RECORD: Size: 2.875 Set At: 3568 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 10/07/2010

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
3207'-34' OA

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

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCHUMACHER-DREILING 1-1
Doc ID	1049325

All Electric Logs Run

COMPACT PHOTO DENSITY COMPENSATED NEUTRON LOG
ARRAY INDUCTION SHALLOW FOCUSSED ELECTRIC LOG
MICRO-RESISTIVITY LOG
COMPENSATED SONIC W/ INTEGRATED TRANSIT TIMES LOG
SONIC CEMENT BOND LOG

KANSAS
CORPORATION COMMISSION

January 13, 2011

NEIL SHARP
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26026-00-00
SCHUMACHER-DREILING 1-1
NW/4 Sec.01-15S-17W
Ellis 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,
NEIL SHARP

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: 6/22/2010
Invoice # 4308

P.O.#:
Due Date: 7/22/2010
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

☑ DRLG ☐ COMP ☐ W/O ☐ LOE
AFE #
ACCT. # 8200-138
APPROVED BY

Reference:
SCHUMACKER-DREILING 1

Description of Work:
LONG SURFACE JOB

Services / Items Included:	Quantity		Price	Taxable
Labor		$	889.71	No
Common-Class A	425	$	4,845.00	Yes
8 5/8" Basket	3	$	923.69	Yes
Bulk Truck Matl-Material Service Charge	448	$	873.03	No
Calcium Chloride	15	$	550.42	Yes
Flo Seal	100	$	194.87	Yes
8 5/8" Centralizer	3	$	187.08	Yes
Pump Truck Mileage-Job to Nearest Camp	15	$	145.86	No
Premium Gel (Bentonite)	8	$	126.90	Yes
8 5/8" Top Rubber Plug	1	$	103.28	Yes
Baffle Plate Aluminum, 8 5/8"	1	$	87.69	Yes

Item	Quantity	Price	Taxable
Bulk Truck Mileage-Job to Nearest Bulk Plant	15	$85.35	No

Invoice Terms:
Net 30

SubTotal:	$	*9,012.88*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,351.93)
SubTotal for Taxable Items:	$	5,966.09
SubTotal for Non-Taxable Items:	$	938.60
Total:	$	7,660.95
6.30% Ellis County Sales Tax Tax:	$	375.86
Amount Due:	**$**	**8,036.81**
Applied Payments:		
Balance Due:	**$**	**8,036.81**

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.

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. 4308

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-20-10	1	15	17	Ellis	KS		10:45 p.m.

Lease Schumacher/Dreiling Well No. 1 Location Victoria S to Antonino Rd 1w 1/2s E into

Contractor Val #6		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. 1085		
Csg. 8 5/8 23#	Depth 1083	Charge To Sam Gary Jr. & Associates Inc	
Tbg. Size	Depth	Street	
Tool	Depth	City	State
Cement Left in Csg. 42	Shoe Joint 42'	The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line	Displace 66 1/4 BBL	Cement Amount Ordered 425 Com 3% cc 2% Gel 1/4# Flo	

EQUIPMENT

	No.		
Pumptrk 5	No.	Cementer Craig Helper Paul	
Bulktrk	No.	Driver Driver	
Bulktrk 12	No.	Driver Doug Driver	

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar

8 5/8 on Bottom. Est. Circulation
Pump 10BL water mix 425sk
Insert Sure @ 1041 - Displace Plug
Cement Circulated
Plug landed 800 psi

Thanks!

Common	425
Poz. Mix	
Gel.	8
Calcium	15
Hulls	
Salt	
Flowseal	100#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	448
Mileage	

FLOAT EQUIPMENT

Guide Shoe	8 5/8
Centralizer	3 Turbolizers
Baskets	3
AFU Inserts	Baffle Plate
Float Shoe	Rubber Plug
Latch Down	
Pumptrk Charge	
Mileage	15
Tax	
Discount	
Total Charge	

X
Signature

BASIC ENERGY SERVICES

PAGE	CUST NO	INVOICE DATE
1 of 1	1003682	09/28/2010

INVOICE NUMBER
1718 - 90418448

Pratt (620) 672-1201

BILL TO
SAMUEL GARY JR. & ASSOCIATES
3111 W 10TH ST, STE 101
GREAT BEND
KS US 67530
ATTN:

JOB SITE
LEASE NAME: Schumacher-Dreiling 1-1
LOCATION:
COUNTY: Ellis
STATE: KS
JOB DESCRIPTION: Cement-New Well Casing/Pi
JOB CONTACT:

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40234424	19905		Net - 30 days	10/28/2010

For Service Dates: 09/26/2010 to 09/26/2010

0040234424

☐ DRLG ☑ COMP ☐ W/O ☐ LOE
AFE #
ACCT. # 8300-238
APPROVED BY KTS

171802637A Cement-New Well Casing/Pi 09/26/2010
5 1/2" Longstring

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
60/40 POZ	75.00	EA	8.04	603.02 T
50/50 POZ	150.00	EA	7.37	1,105.53 T
Cello-flake	37.00	EA	2.48	91.73 T
Cal-Set	750.00	EA	0.50	376.89 T
FLA-322	121.00	EA	5.03	608.04 T
Cement Gel	252.00	EA	0.17	42.21 T
Gilsonite	1,125.00	EA	0.45	505.03 T
Calcium Chloride	252.00	EA	0.70	177.29 T
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	268.01	268.01
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	241.21	241.21
Turbolizer 5 1/2" (Blue)	8.00	EA	73.70	589.62
CS-1L KCL Substitute	4.00	EA	23.45	93.80 T
Super Flush II	500.00	EA	1.03	512.56 T
Unit Mileage Charge-Pickups, Vans & Cars	95.00	HR	2.85	270.52
Heavy Equipment Mileage	190.00	MI	4.69	891.12
Proppant and Bulk Delivery Charges	907.00	MI	1.07	972.33
Depth Charge; 3001-4000'	1.00	HR	1,447.23	1,447.23
Blending & Mixing Service Charge	225.00	MI	0.94	211.06
Casing Swivel Rental	1.00	EA	134.00	134.00
Plug Container Utilization Charge	1.00	EA	167.50	167.50
Service Supervisor	1.00	HR	117.25	117.25
High Head Charge	1.00	EA	201.01	201.01

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
PO BOX 10460
MIDLAND,TX 79702

SUB TOTAL	9,626.96
TAX	259.31
INVOICE TOTAL	9,886.27

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 02637 A

DATE TICKET NO.

DATE OF JOB 9-26-10 DISTRICT KANSAS	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Samuel Gary Jr. + Assc. Inc.	LEASE Schumacher - Dreiling WELL NO. 1-1
ADDRESS	COUNTY Ellis 1-15-17 STATE Ks
CITY STATE	SERVICE CREW A. Werth, M. Mathal, M. McGraw CNW
AUTHORIZED BY	JOB TYPE: 5½" L.S.

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
28443 PU	1				
19903-19905	1				
19826 19860	1				

	DATE	AM/PM	TIME
TRUCK CALLED	9-26-10	AM	1000
ARRIVED AT JOB	9-26-10	AM	1130
START OPERATION	9-26-10	AM	700
FINISH OPERATION	9-26-10	AM	800
RELEASED	9-26-10	AM	830
MILES FROM STATION TO WELL			95 miles

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP103	60/40 Poz	SK	75		$ 900.00
CP104	50/50 Poz	SK	150		$ 1650.00
CC102	Cell Flake	lb	37		$ 136.90
CC109	Calcium Chloride	lb	252		$ 264.60
CC113	Cal set	lb	750		$ 562.50
CC129	FIA-322	lb	121		$ 907.50
CC200	Cement Gel	lb	252		$ 63.00
CC201	Gilsonite	lb	1125		$ 753.75
CF607	Latch Down Plug + Baffle 5½ Blue	EA	1		$ 400.00
CF1251	Auto Fill Float Shoe 5½" Blue	EA	1		$ 360.00
CF1651	Turbolizer 5½" Blue	EA	8		$ 880.00
C704	CS-1L KCL Sub.	gal	4		$ 140.00
CC155	Super Flush II	gal	500		$ 975.00

SUB TOTAL DLS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Allen F. Werth

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: DISTL
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 02638 A

DATE TICKET NO. 02632

DATE OF JOB 9-26-10 DISTRICT Kansas	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Samuel Gary JR. + Assc. Inc	LEASE Schumacher-Orsiliny WELL NO. 1-1
ADDRESS	COUNTY Ellis 1-15-17 STATE Kans.
CITY STATE	SERVICE CREW A. Werth, M. Mattal, M. McGinn
AUTHORIZED BY	JOB TYPE: 5½" L.S. CMW

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
28443 P.U.	1				
19823-19805	1				
19826-19860	1				

	DATE	AM/PM	TIME
TRUCK CALLED	9-26-10	AM PM	1000
ARRIVED AT JOB	926-10	AM PM	130
START OPERATION	9-26-10	AM PM	700
FINISH OPERATION	9-26-10	AM PM	800
RELEASED	9-26-10	AM PM	830
MILES FROM STATION TO WELL	95 miles		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
E100	Unit Mileag-Charge Pickup	mi	95		$ 403.75
E101	Heavy Equip. Mileage	mi	190		$ 1330.00
E113	Bulk Del. Charge	Tm	907		$ 1451.60
CE204	Depth Chg 3001-4000'	1	4hrs		$ 2160.00
CE240	Blending + mixing Service Chg	SK	225		$ 365.00
CE501	Casing Swivel Rental	EA	1		$ 200.00
CE504	Plug Container Utilization Chg.	Job	1		$ 250.00
5003	Service Supervisor First 8hrs on loc	EA	1		$ 175.00
CE503	Derrick Charge over 10' in air	EA	1		$ 300.00

CHEMICAL / ACID DATA:			

SUB TOTAL		9626.90
SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
TOTAL		~~$ 9626.90~~

SERVICE REPRESENTATIVE Allen F. Werth

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: DISAD
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASiC energy services, L.P.

TREATMENT REPORT

Customer	Lease No.	Date
SAMUEL Gary JR + Assc. Inc.		9-26-10
Lease: SCHUMACHER-Dreiling	**Well #:** 1-1	

Field Order #	Station	Casing	Depth	County	State
02637A	Pratt Ks	5 1/2"	3607	Ellis	Ks

Type Job	Formation	Legal Description
5 1/2" Long String CNW	TD 3610	1-15-17

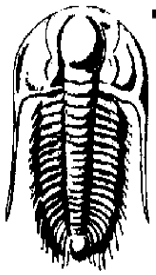
PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft	25	Acid sks 60/40 Poz	RATE scavenger @ 12#	PRESS	ISIP 2% gel, .3%
Depth 3607	Depth	From	To 150	Pre Pad sks 50/50 Poz @ 13.8	Max		5 Min. Fluid Loss, 5# Gilsonite
Volume 85 1/2	Volume	From	To 500 gal	Pad super flush II	Min		10 Min.
Max Press 1500#	Max Press	From	To	Frac	Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3584.76	Packer Depth	From	To	Flush Disp. 2% KCL	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
(Kurt Strube) Dave Stah	Scotty	Allen F. Werth

Service Units	28443	mike	mathal	19826	19860					
Driver Names	A. werth	19903	19905	mike	McGraw					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log VAL #6
145 pm					on Loc. Discuss Safety Setup Plan Job
					Rig laying down Drill Pipe
300					out of Hole - Laydown Kelly
					Rig up to Run 5 1/2 csg 15.5#
400					Start 5 1/2" casing. Shoe Joint
					22.63' w/ Float Shoe + Latch down
					Baffle in collar. cent-1-3-5-7-9-11-13-15
600					Tag Bottom Pick up + ciR +
					Rotate Pipe 12' in AiR
700	200#		12	5	Pump 12 BBls Superflush II
			5	5	Pump 5 BBls H_2O spacer
			9	5	mix + pump 25 sks 60/40 poz scavenger @ 12#
					with 2% gel, .3% F.L., 5# Gilsonite.
					mix + pump 150 sks 50/50 poz w/
					4% gel 2% CC .8% F.L. .5% Gypsum
					1/4# cell Flake 5# Gilsonite @ 13.8#/gal
			40		Finish mix, washout Pump + Line
				6 1/2	Drop L.D. Plug, Start Disp. 2% KCL
	300#			6	Caught Lift 54 BBls
730	1500#		85 1/2	4	Plug down - Release PSI - Float - OK
					Plug R.H. + M.H. w/ 50 sks 60/40 Poz.
830			Thanks Allen, Mike, McGraw		washup + Rack up - Job complete.

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & assoc.**

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

1-15s-17w Ellis co

Schumacher-Dreiling 1-1

Start Date: 2010.09.23 @ 14:45:05
End Date: 2010.09.24 @ 00:01:40
Job Ticket #: 040396 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040396 **DST#: 1**

Test Start: 2010.09.23 @ 14:45:05

GENERAL INFORMATION:

Formation: **LKC-"A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:22:30
Time Test Ended: 00:01:40

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

Interval: 3192.00 ft (KB) To 3242.00 ft (KB) (TVD)
Total Depth: 3242.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

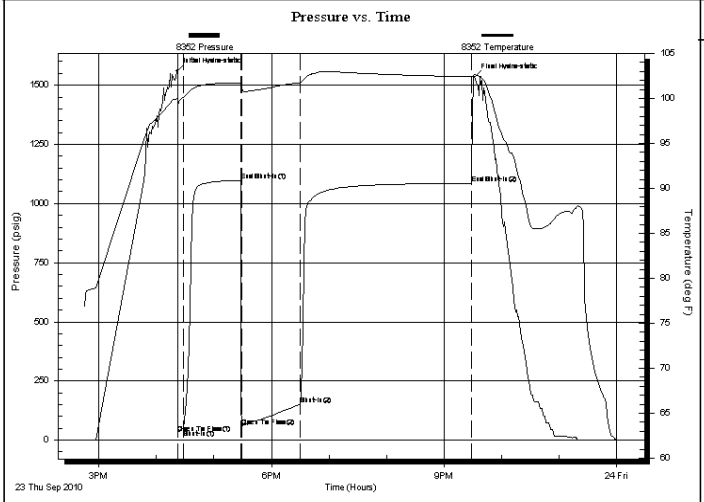
Reference Elevations: 1942.00 ft (KB)
1932.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8352 **Outside**

Press@RunDepth: 150.63 psig @ 3197.00 ft (KB)
Start Date: 2010.09.23 End Date: 2010.09.24
Start Time: 14:45:05 End Time: 00:01:39

Capacity: 8000.00 psig
Last Calib.: 2010.09.23
Time On Btm: 2010.09.23 @ 16:21:20
Time Off Btm: 2010.09.23 @ 21:31:20

TEST COMMENT: IF: BOB,2 min.
IS: No Return
FF: BOB,immediately,Gas to surface 45 min.TSTM
FS: Return blow , building to 8 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.17	99.96	Initial Hydro-static
2	29.79	99.07	Open To Flow (1)
7	45.66	100.09	Shut-In(1)
67	1098.56	101.68	End Shut-In(1)
68	56.60	101.24	Open To Flow (2)
129	150.63	101.76	Shut-In(2)
308	1085.90	102.41	End Shut-In(2)
310	1534.62	102.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCGM g=25% o=15% m=60%	1.74
230.00	GO g=10% o=90%	3.23

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040396 **DST#: 1**

Test Start: 2010.09.23 @ 14:45:05

GENERAL INFORMATION:

Formation: **LKC-"A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:22:30
Time Test Ended: 00:01:40

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

Interval: 3192.00 ft (KB) To 3242.00 ft (KB) (TVD)
Total Depth: 3242.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

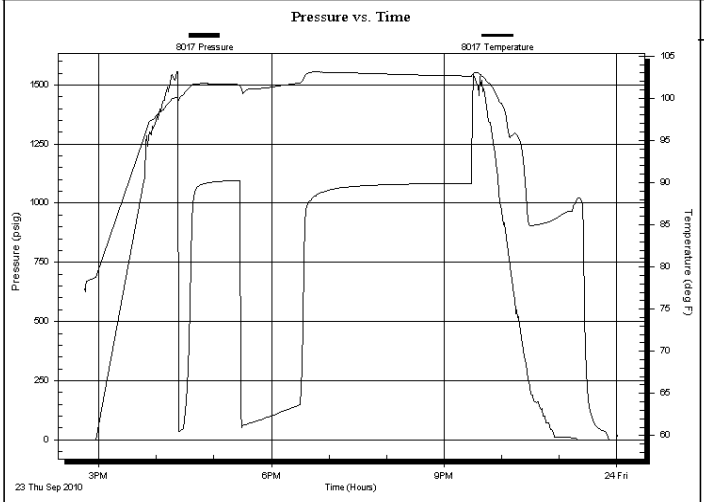
Reference Elevations: 1942.00 ft (KB)
1932.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8017 **Inside**

Press@RunDepth: psig @ 3197.00 ft (KB)
Start Date: 2010.09.23 End Date: 2010.09.24
Start Time: 14:45:05 End Time: 00:01:40

Capacity: 8000.00 psig
Last Calib.: 2010.09.23
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB,2 min.
IS: No Return
FF: BOB,immediately,Gas to surface 45 min.TSTM
FS: Return blow , building to 8 inches



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCGM g=25% o=15% m=60%	1.74
230.00	GO g=10% o=90%	3.23

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040396 **DST#: 1**

Test Start: 2010.09.23 @ 14:45:05

Tool Information

Drill Pipe:	Length:	3190.00 ft	Diameter:	3.80	inches	Volume:	44.75	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	44.75	bbl	

Drill Pipe Above KB:	26.00 ft
Depth to Top Packer:	3192.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	50.00 ft
Tool Length:	78.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	3000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	46000.00 lb
Final	48000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3165.00		
Shut In Tool	5.00			3170.00		
Hydraulic tool	5.00			3175.00		
Jars	5.00			3180.00		
Safety Joint	3.00			3183.00		
Packer	5.00			3188.00	28.00	Bottom Of Top Packer
Packer	4.00			3192.00		
Stubb	1.00			3193.00		
Perforations	3.00			3196.00		
Change Over Sub	1.00			3197.00		
Recorder	0.00	8017	Inside	3197.00		
Recorder	0.00	8352	Outside	3197.00		
Drill Pipe	31.00			3228.00		
Change Over Sub	1.00			3229.00		
Perforations	10.00			3239.00		
Bullnose	3.00			3242.00	50.00	Bottom Packers & Anchor
Total Tool Length:	**78.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040396 **DST#: 1**

Test Start: 2010.09.23 @ 14:45:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OCGM g=25% o=15% m=60%	1.739
230.00	GO g=10% o=90%	3.226

Total Length: 354.00 ft Total Volume: 4.965 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040396 **DST#: 1**

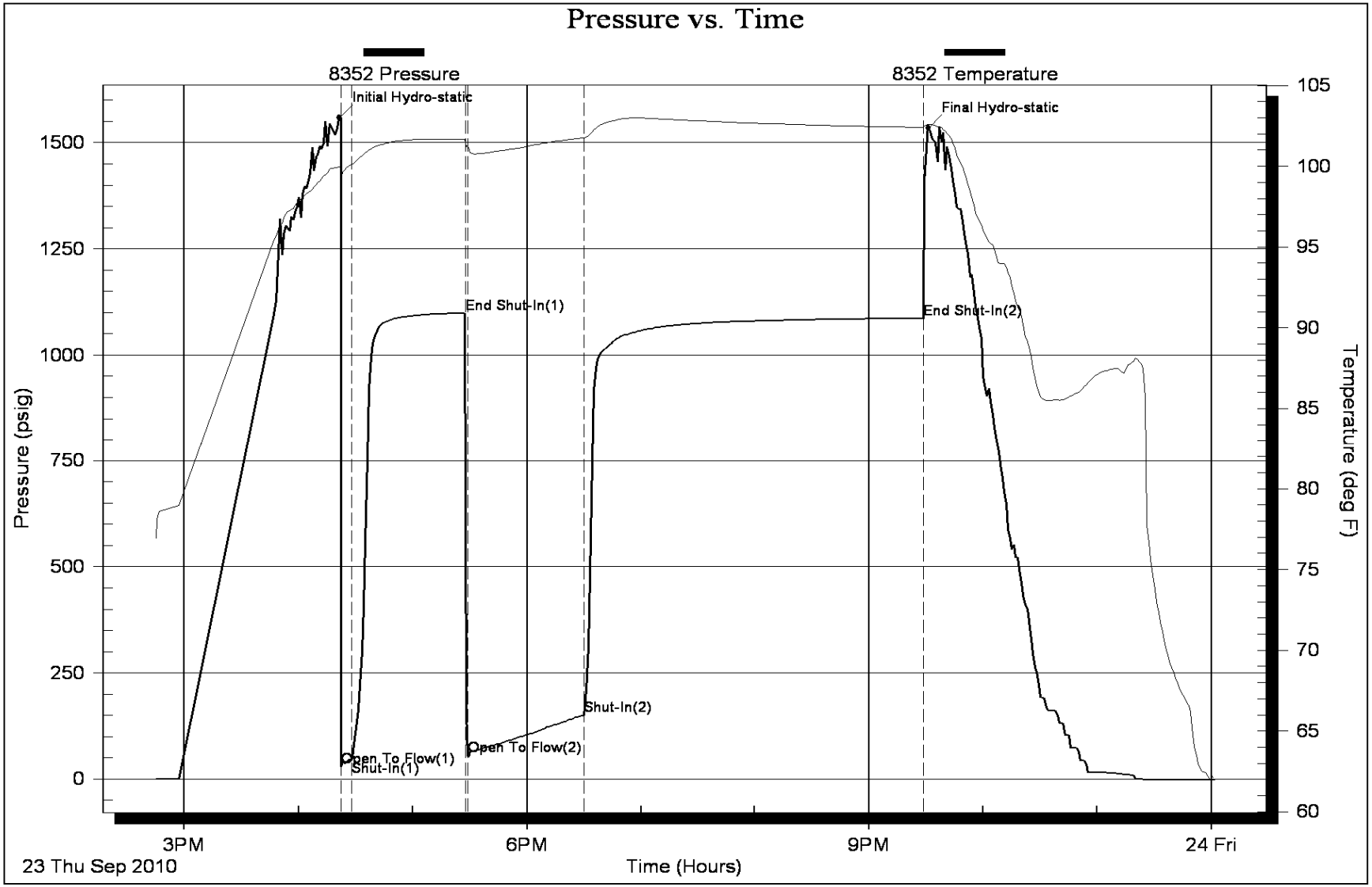
Test Start: 2010.09.23 @ 14:45:05

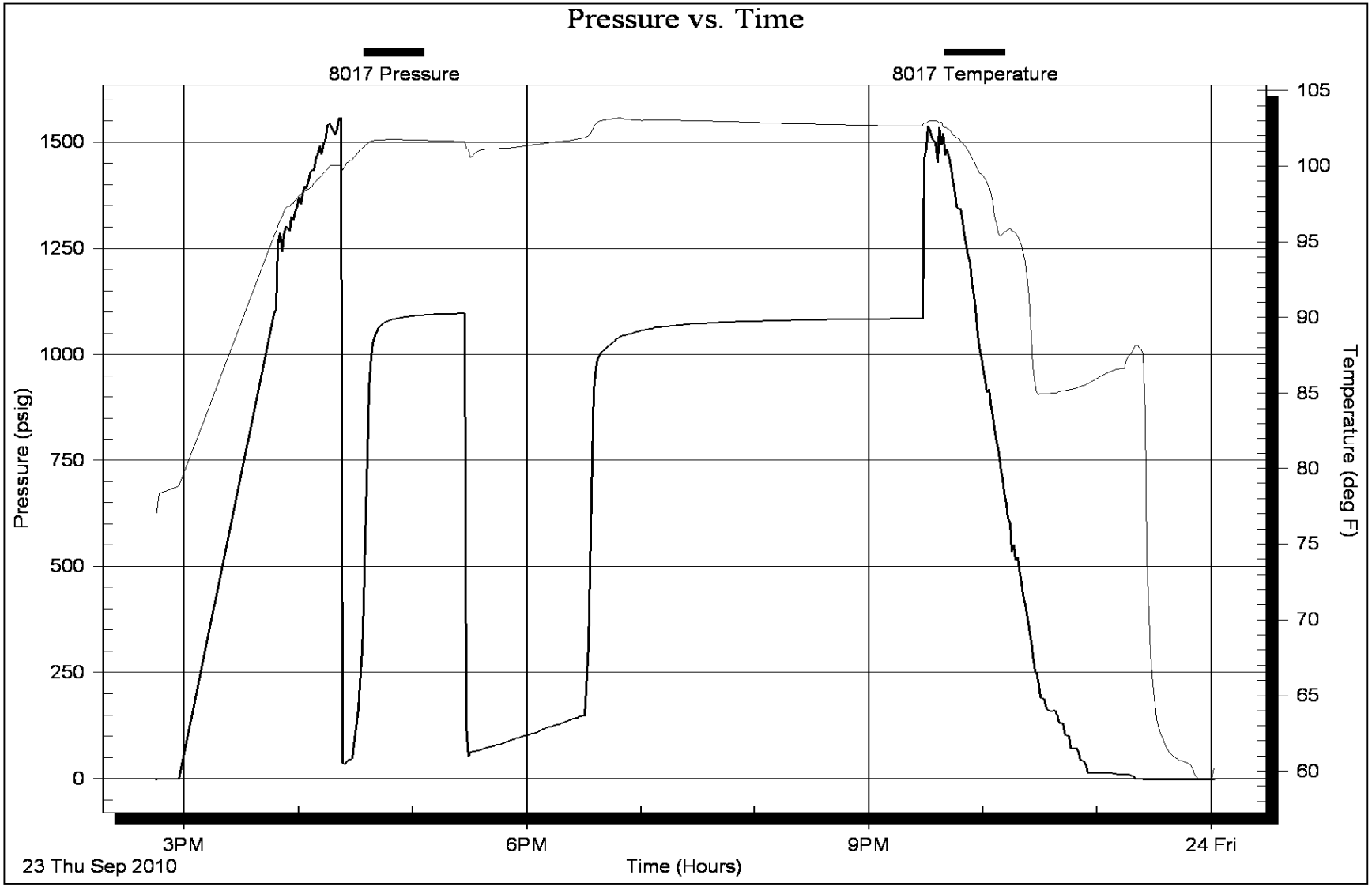
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

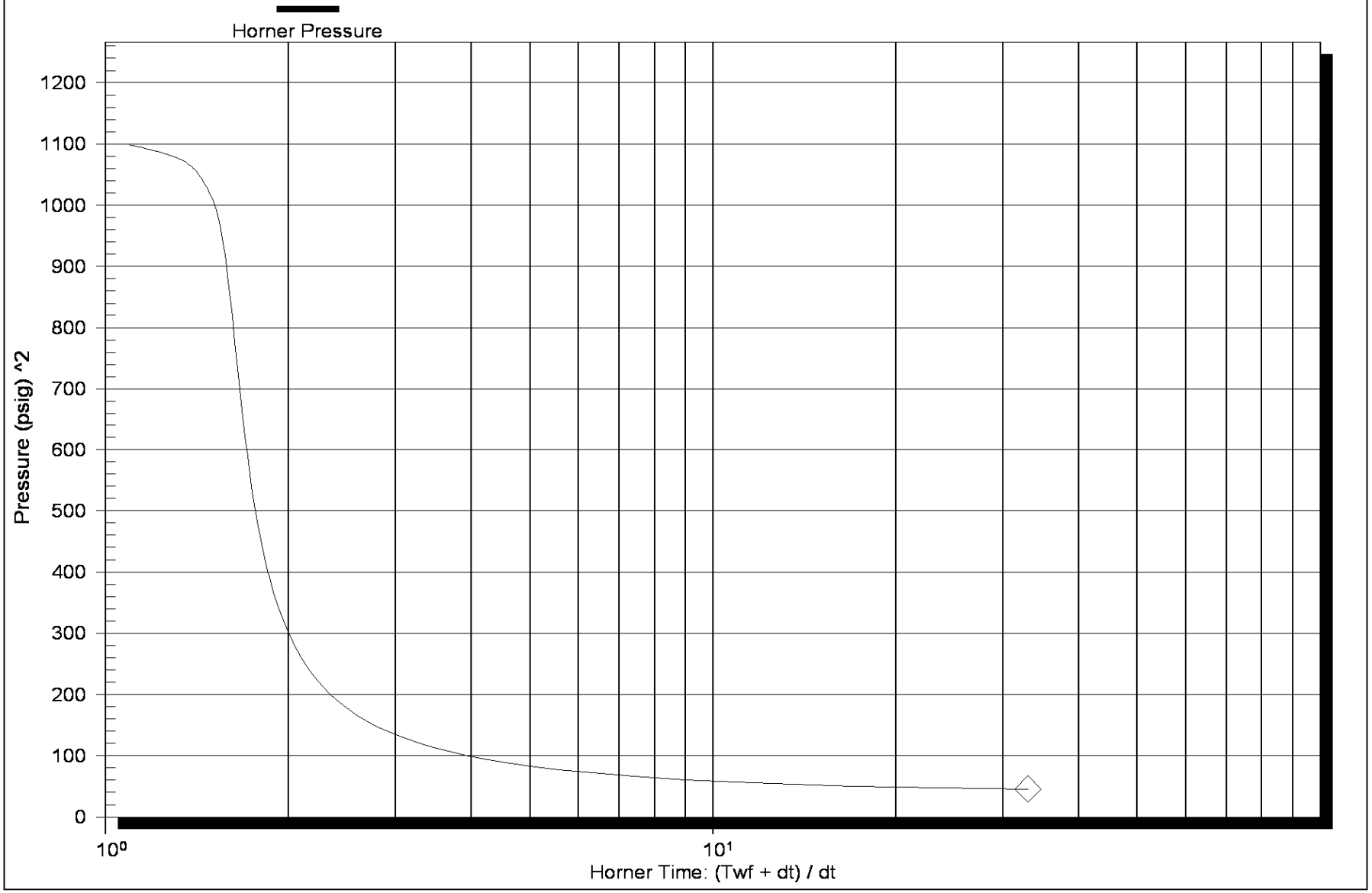
Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
		0.00	0.00	0.00

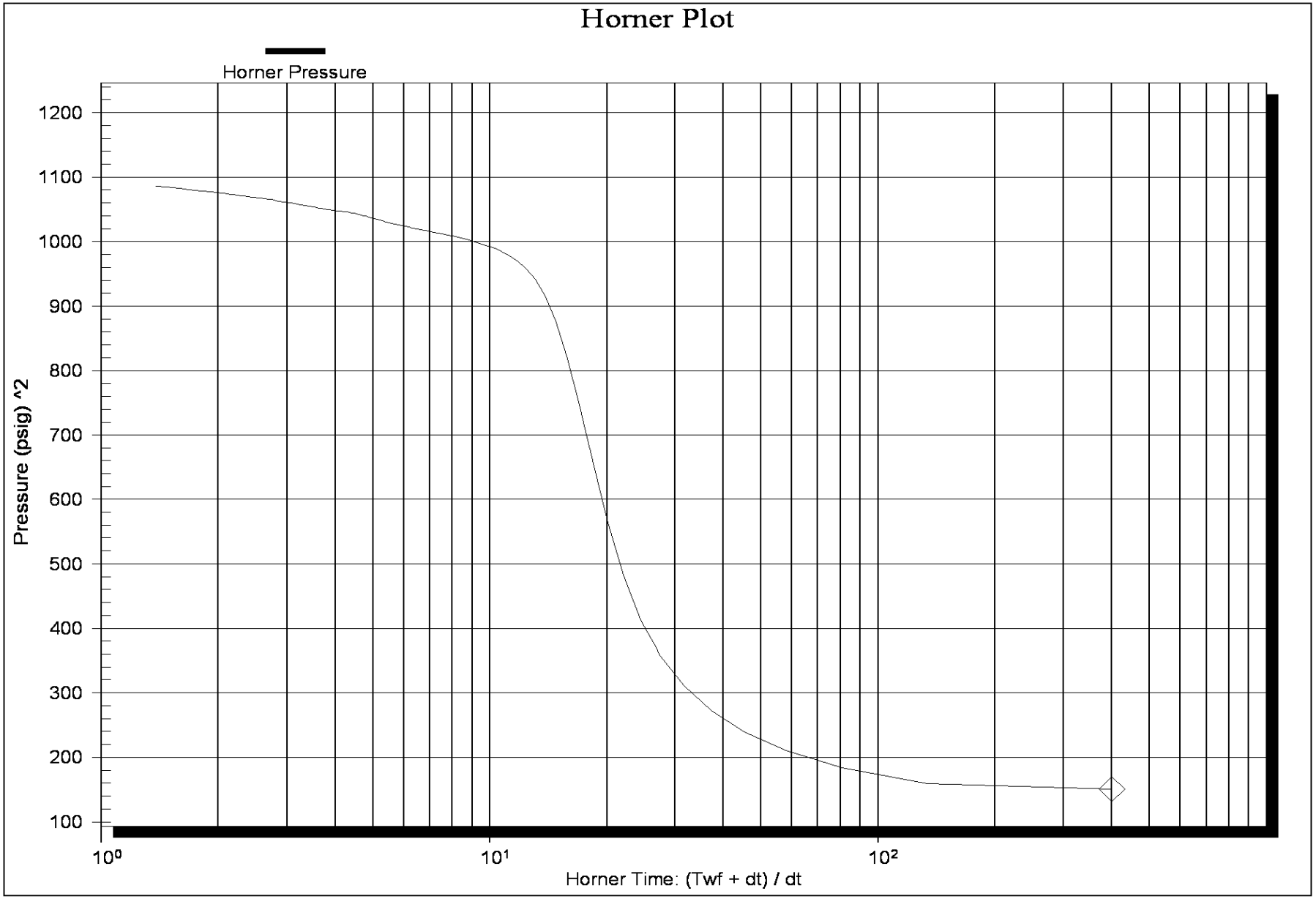

Pressure vs. Time
8352 Pressure
8352 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
65
60
3PM
6PM
9PM
24 Fri
23 Thu Sep 2010
Time (Hours)


Pressure vs. Time
8017 Pressure
8017 Temperature
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
65
60
3PM
6PM
9PM
24 Fri
23 Thu Sep 2010
Time (Hours)

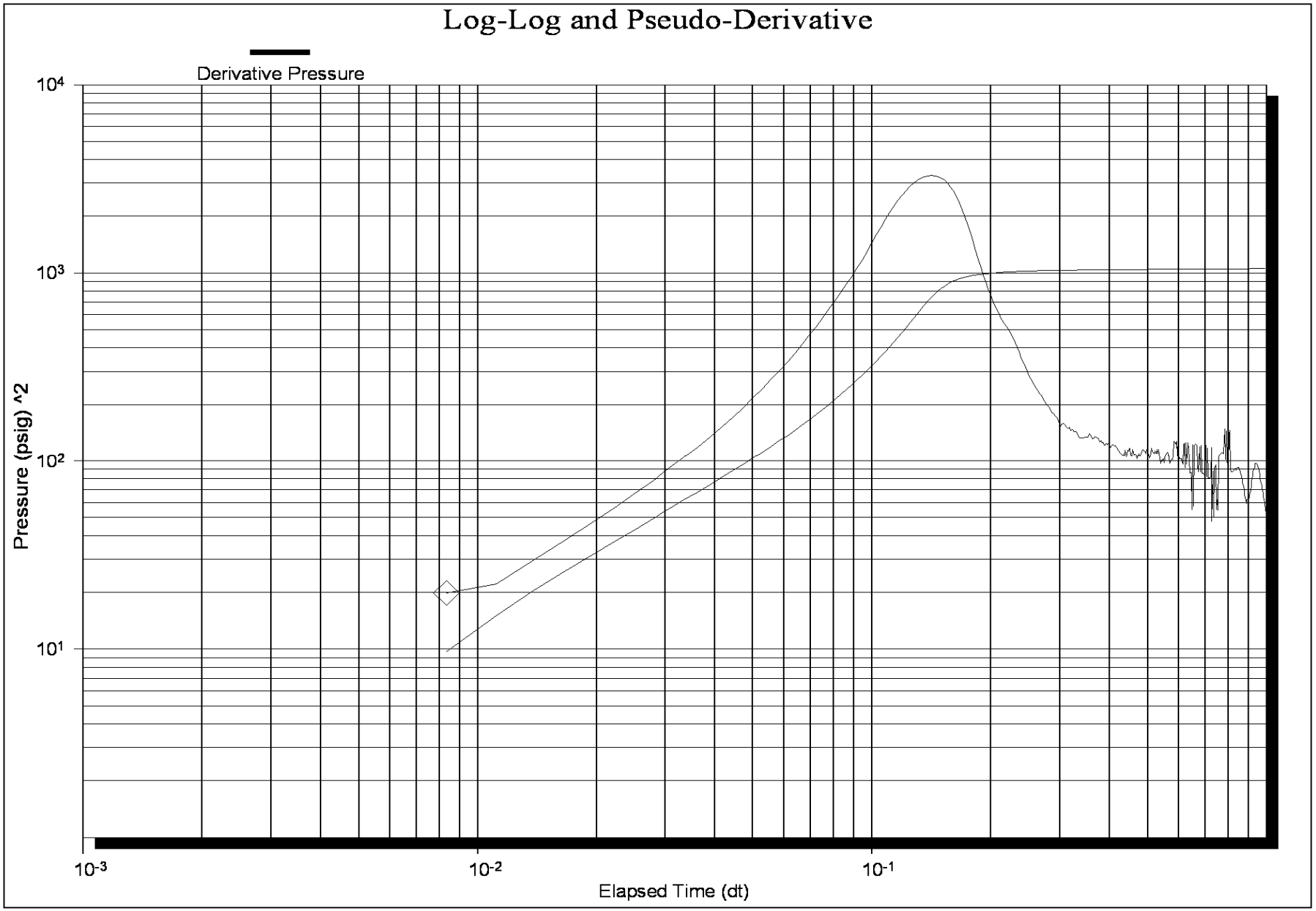
Horner Plot

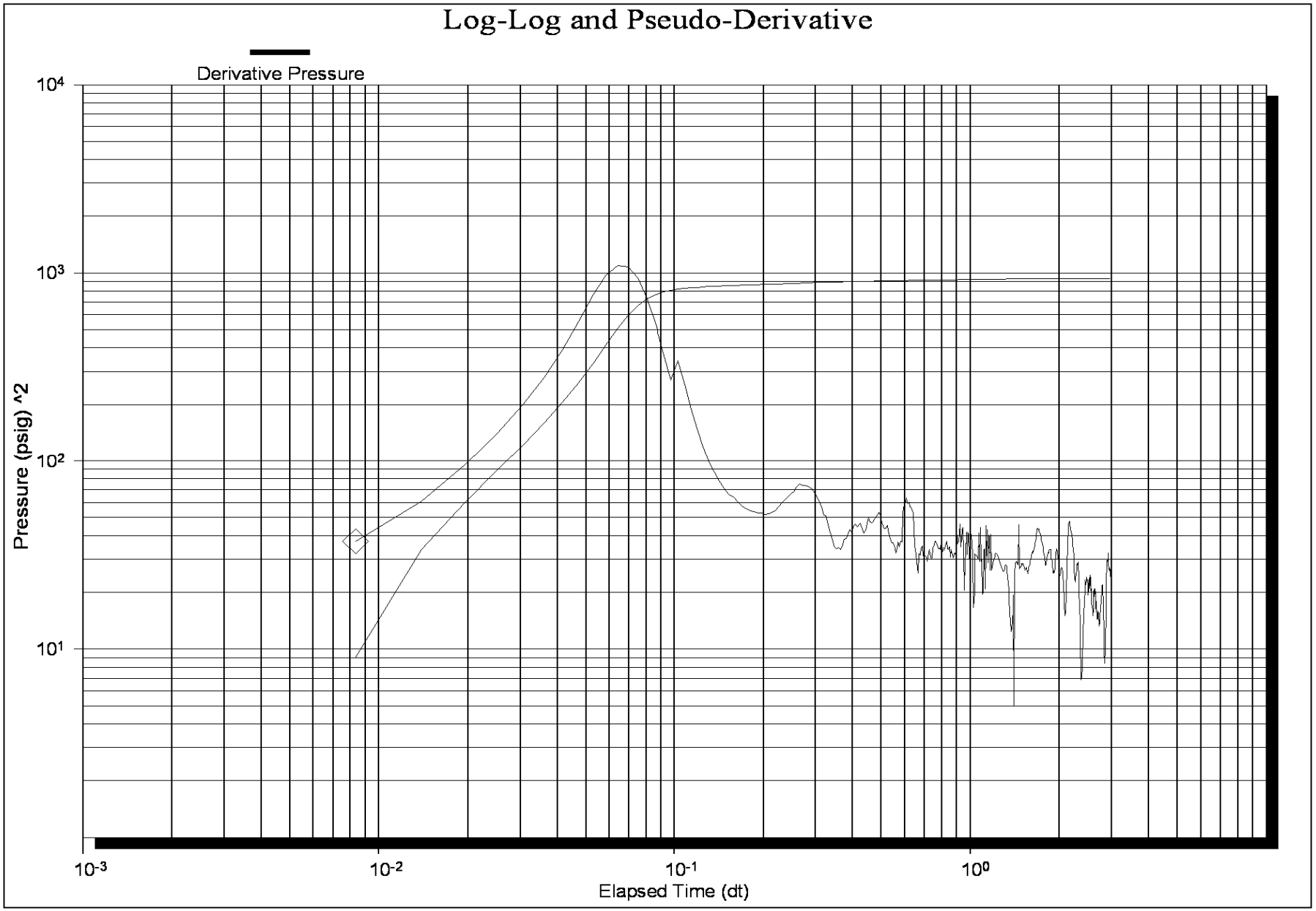


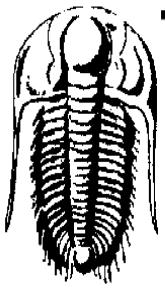
Serial Number: 8352 (Outside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1



Serial Number: 8352 (Outside) P* : Slope (m) : kpa/log cycle Flow Cycle: 2


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^{-3}
10^{-2}
10^{-1}
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
10^1
Pressure (psig) ^2
10^{-3}
10^{-2}
10^{-1}
10^0
Elapsed Time (dt)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & assoc.**

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

1-15s-17w Ellis co

Schumacher-Dreiling 1-1

Start Date: 2010.09.25 @ 08:00:05
End Date: 2010.09.25 @ 17:53:00
Job Ticket #: 040397 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:59:50
Time Test Ended: 17:53:00

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

Interval: 3447.00 ft (KB) To 3509.00 ft (KB) (TVD)
Total Depth: 3509.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

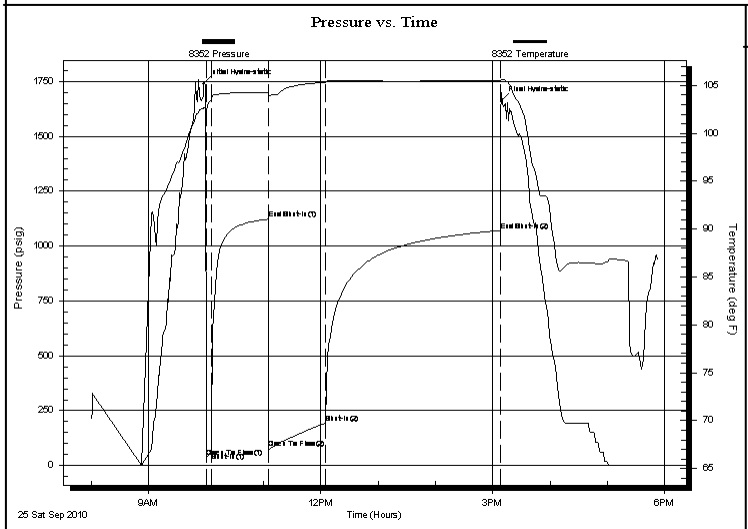
Reference Elevations: 1942.00 ft (KB)
1932.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8352 **Outside**

Press@RunDepth: 194.65 psig @ 3452.00 ft (KB)
Start Date: 2010.09.25 End Date: 2010.09.25
Start Time: 08:00:05 End Time: 17:53:00

Capacity: 8000.00 psig
Last Calib.: 2010.09.25
Time On Btm: 2010.09.25 @ 09:57:30
Time Off Btm: 2010.09.25 @ 15:09:09

TEST COMMENT: IF: 8 inch blow
IS: No Return
FF:BOB, 11 min.
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1738.41	102.65	Initial Hydro-static
3	39.67	102.39	Open To Flow (1)
9	60.58	103.53	Shut-In(1)
68	1122.62	104.26	End Shut-In(1)
68	78.91	103.93	Open To Flow (2)
128	194.65	105.34	Shut-In(2)
311	1070.70	105.47	End Shut-In(2)
312	1662.25	105.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	W w =100%	1.74
62.00	OCM o=30% m=80%	0.87
124.00	OCM o=30% m=70%	1.74
92.00	O o=100%	1.29

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:59:50
Time Test Ended: 17:53:00

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

Interval: 3447.00 ft (KB) To 3509.00 ft (KB) (TVD)
Total Depth: 3509.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

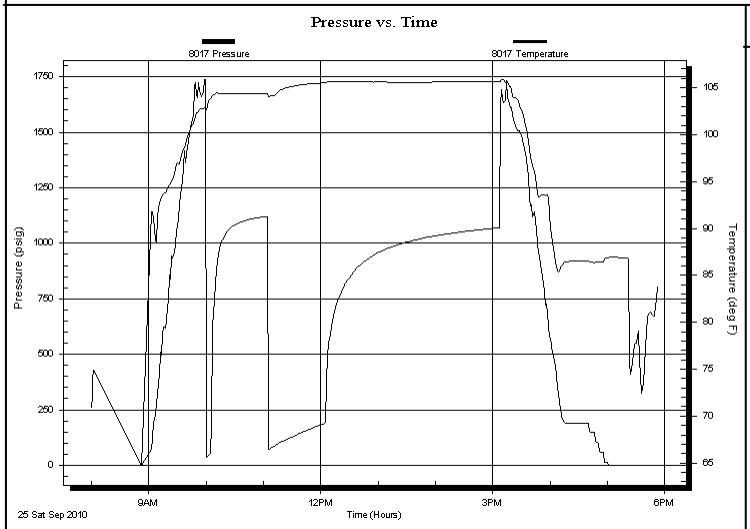
Reference Elevations: 1942.00 ft (KB)
1932.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8017 **Inside**

Press@RunDepth: psig @ 3452.00 ft (KB)
Start Date: 2010.09.25 End Date: 2010.09.25
Start Time: 08:00:05 End Time: 17:53:00

Capacity: 8000.00 psig
Last Calib.: 2010.09.25
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 8 inch blow
IS: No Return
FF:BOB, 11 min.
FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	W w =100%	1.74
62.00	OCM o=30% m=80%	0.87
124.00	OCM o=30% m=70%	1.74
92.00	O o=100%	1.29

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:59:50
Time Test Ended: 17:53:00

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

Interval: 3447.00 ft (KB) To 3509.00 ft (KB) (TVD)
Total Depth: 3509.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

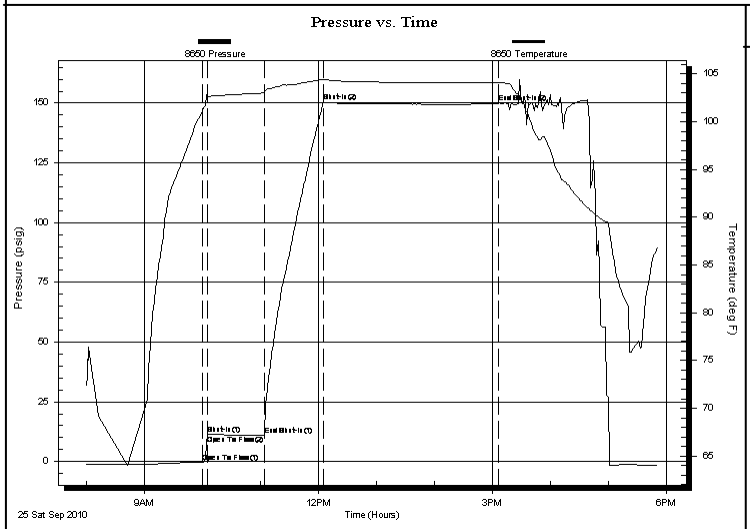
Reference Elevations: 1942.00 ft (KB)
1932.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8650 **Fluid**

Press@RunDepth: 150.24 psig @ 3357.00 ft (KB)
Start Date: 2010.09.25 End Date: 2010.09.25
Start Time: 08:00:01 End Time: 17:50:30

Capacity: 8000.00 psig
Last Calib.: 2010.09.25
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 8 inch blow
IS: No Return
FF:BOB, 11 min.
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	-0.21	101.09	Open To Flow (1)
6	11.47	102.64	Shut-In(1)
64	11.15	103.01	End Shut-In(1)
65	11.15	103.01	Open To Flow (2)
125	150.62	104.42	Shut-In(2)
307	150.24	104.14	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
124.00	W w =100%	1.74
62.00	OCM o=30% m=80%	0.87
124.00	OCM o=30% m=70%	1.74
92.00	O o=100%	1.29

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

Tool Information

Drill Pipe:	Length:	3381.00 ft	Diameter:	3.80 inches	Volume:	47.43 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	47.43 bbl	

Drill Pipe Above KB:	24.00 ft
Depth to Top Packer:	3447.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	62.00 ft
Tool Length:	152.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	3000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	54000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	49000.00 lb
Final	52000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Recorder	0.00	8650	Fluid	3357.00		
Blank Spacing	62.00			3419.00		
Change Over Sub	1.00			3420.00		
Shut In Tool	5.00			3425.00		
Hydraulic tool	5.00			3430.00		
Jars	5.00			3435.00		
Safety Joint	3.00			3438.00		
Packer	5.00			3443.00	90.00	Bottom Of Top Packer
Packer	4.00			3447.00		
Stubb	1.00			3448.00		
Perforations	3.00			3451.00		
Change Over Sub	1.00			3452.00		
Recorder	0.00	8017	Inside	3452.00		
Recorder	0.00	8352	Outside	3452.00		
Drill Pipe	31.00			3483.00		
Change Over Sub	1.00			3484.00		
Perforations	22.00			3506.00		
Bullnose	3.00			3509.00	62.00	Bottom Packers & Anchor
Total Tool Length:	**152.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	24 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	28000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	W w=100%	1.739
62.00	OCM o=30% m=80%	0.870
124.00	OCM o=30% m=70%	1.739
92.00	O o=100%	1.291

Total Length: 402.00 ft Total Volume: 5.639 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

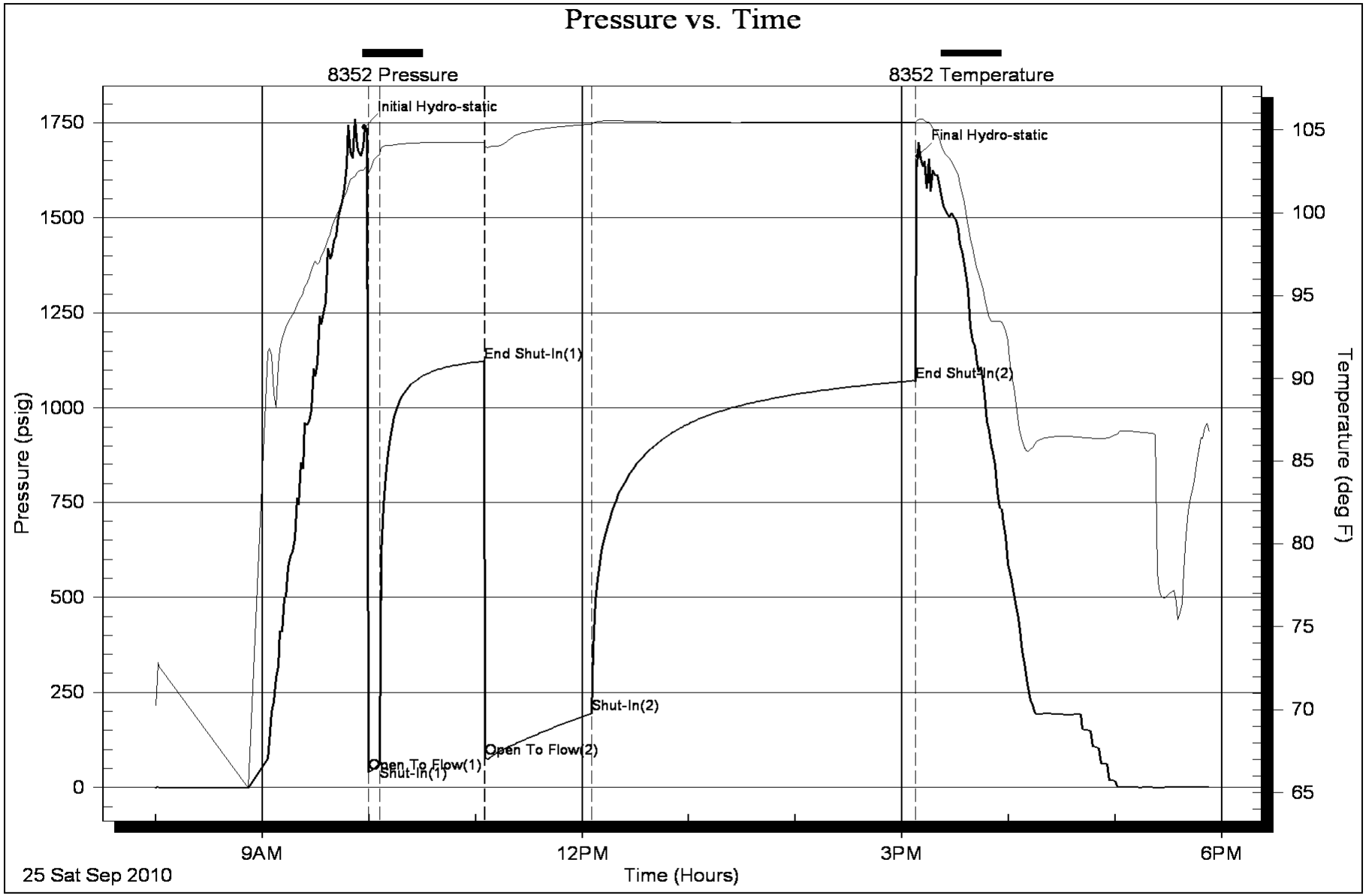
Test Start: 2010.09.25 @ 08:00:05

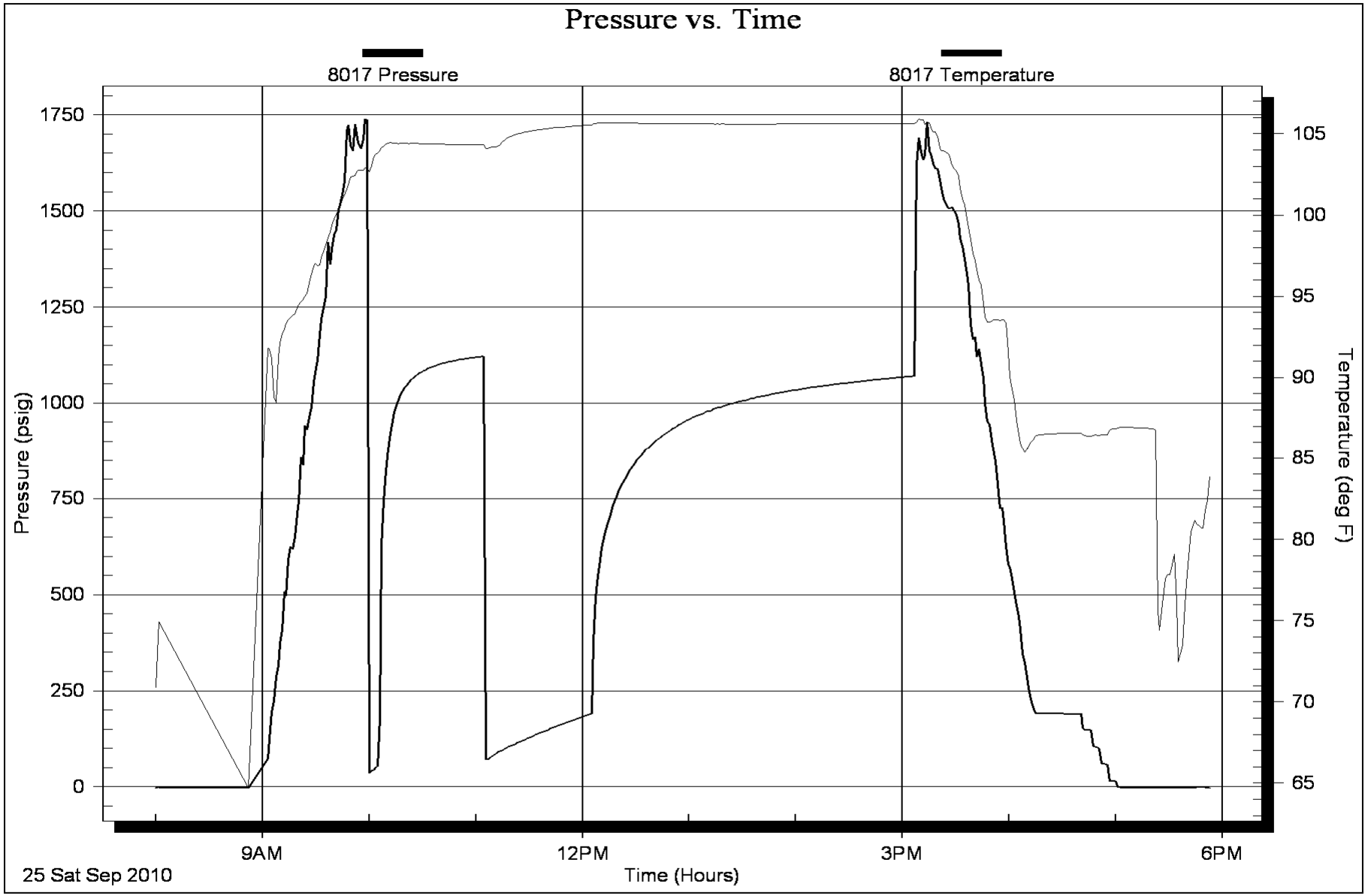
Gas Rates Information

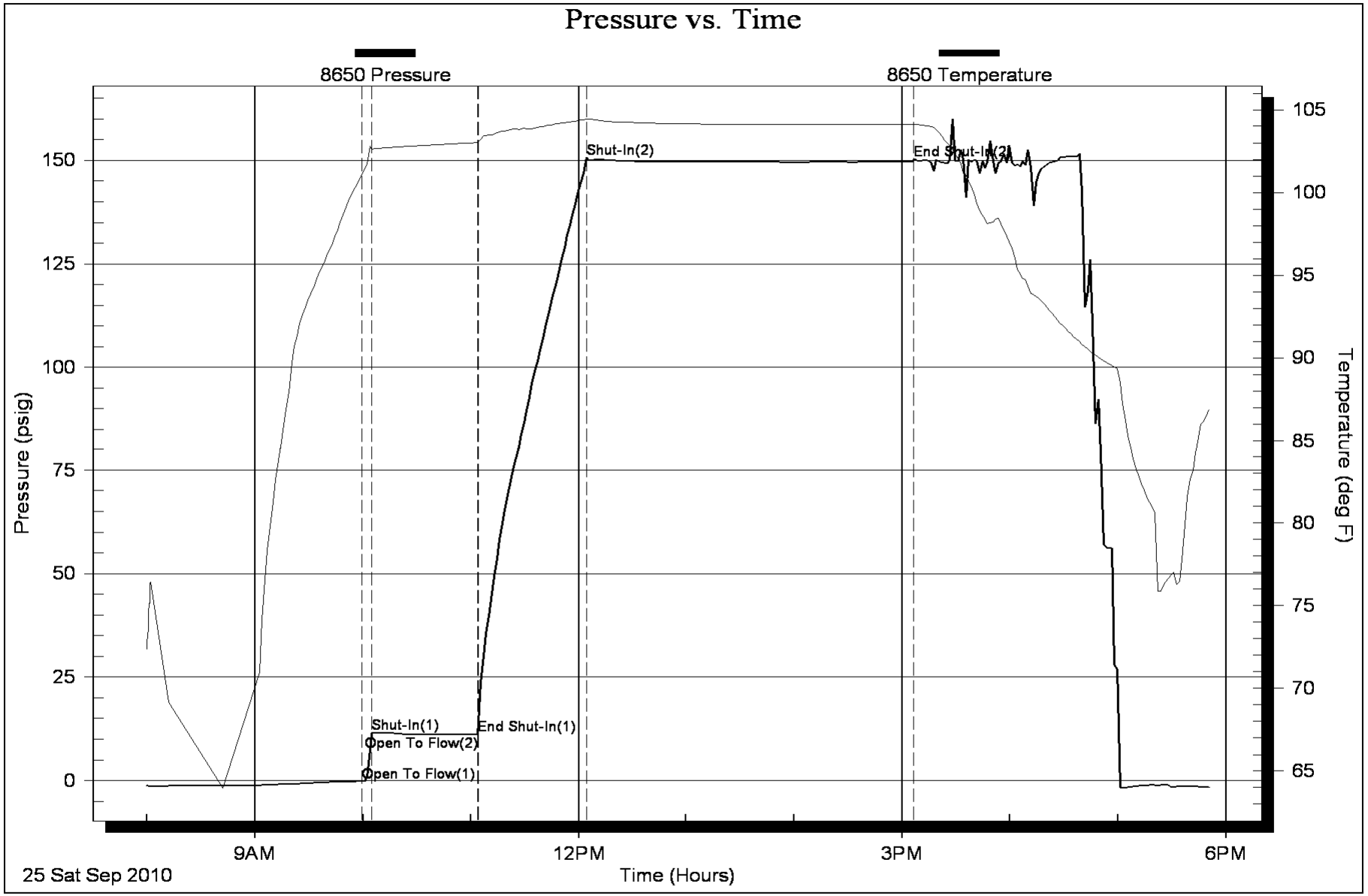
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
		0.00	0.00	0.00


Pressure vs. Time
8352 Pressure
8352 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
65
9AM
12PM
3PM
6PM
25 Sat Sep 2010
Time (Hours)


Pressure vs. Time
8017 Pressure
8017 Temperature
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
65
9AM
12PM
3PM
6PM
25 Sat Sep 2010
Time (Hours)


Pressure vs. Time
8650 Pressure
8650 Temperature
Shut-In(2)
End Shut-In(2)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure (psig)
Temperature (deg F)
150
125
100
75
50
25
0
105
100
95
90
85
80
75
70
65
9AM
12PM
3PM
6PM
25 Sat Sep 2010
Time (Hours)

DRILL STEM TESTING - DATA LISTING

TRILOBITE TESTING, INC.

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

Serial # 8352	**Outside**			**Serial # 8352**	**Outside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.68	70.3		112.1	1705.34	102.2
	0.8	-0.32	72.2		113.8	1679.25	102.5
	1.7	-0.25	72.6		115.4	1662.81	102.5
	62.1	73.31	91.3		117.1	1750.71	102.6
	63.8	121.40	91.8		117.3	1766.85	102.6
	65.4	196.89	91.0	Initial Hydro-static	117.4	1738.41	102.6
	67.1	256.82	88.3		117.6	1737.58	102.7
	68.8	317.81	90.8		117.8	1738.87	102.7
	70.4	378.17	92.1		117.9	1738.75	102.7
	72.1	439.12	92.8		119.4	1739.28	102.8
	73.8	499.65	93.2		119.6	52.35	102.2
	75.4	565.49	93.6	Open To Flow (1)	119.8	39.67	102.4
	77.1	620.84	93.9		119.9	38.14	102.4
	78.8	690.99	94.3		120.1	38.23	102.5
	80.4	744.07	94.7		120.3	38.81	102.5
	82.1	804.50	95.0		121.9	44.80	103.1
	83.8	868.23	95.4		123.6	52.37	103.3
	85.4	931.89	95.8		125.3	59.35	103.5
	87.1	996.94	96.4		125.4	60.40	103.5
	88.8	1054.91	97.0		125.6	60.61	103.5
	90.4	1139.34	97.0	Shut-In(1)	125.8	60.58	103.5
	92.1	1242.50	97.0		125.9	115.08	103.6
	93.8	1283.62	97.4		126.1	298.59	103.7
	95.4	1278.62	97.9		126.3	419.13	103.8
	97.1	1346.40	98.5		127.9	712.58	104.0
	98.8	1458.17	99.0		129.6	828.29	104.0
	100.4	1437.03	99.5		131.3	904.66	104.0
	102.1	1580.11	99.9		132.9	953.00	104.1
	103.8	1518.14	100.4		134.6	985.34	104.1
	105.4	1651.22	100.8		136.3	1008.17	104.1
	107.1	1613.56	101.3		137.9	1025.26	104.1
	108.8	1659.07	101.7		139.6	1038.78	104.2
	110.4	1660.95	102.1		141.3	1049.68	104.2

Printing every 10 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	142.9	1058.61	104.2		199.1	108.07	104.5
	144.6	1066.08	104.2		200.8	111.57	104.6
	146.3	1072.49	104.2		202.4	115.45	104.7
	147.9	1078.01	104.2		204.1	118.81	104.7
	149.6	1082.82	104.2		205.8	122.14	104.8
	151.3	1086.98	104.2		207.4	125.13	104.8
	152.9	1090.68	104.2		209.1	128.67	104.9
	154.6	1093.90	104.2		210.8	131.71	104.9
	156.3	1096.91	104.2		212.4	135.01	105.0
	157.9	1099.61	104.2		214.1	138.55	105.0
	159.6	1101.94	104.2		215.8	142.15	105.0
	161.3	1104.28	104.2		217.4	145.52	105.1
	162.9	1106.27	104.2		219.1	148.50	105.1
	164.6	1108.21	104.2		220.8	151.67	105.1
	166.3	1109.92	104.2		222.4	154.74	105.1
	167.9	1111.40	104.2		224.1	158.01	105.2
	169.6	1112.89	104.2		225.8	161.27	105.2
	171.3	1114.27	104.3		227.4	163.90	105.2
	172.9	1115.48	104.3		229.1	166.68	105.2
	174.6	1116.68	104.3		230.8	170.13	105.2
	176.3	1117.84	104.2		232.4	172.75	105.2
	177.9	1118.85	104.3		234.1	175.87	105.2
	179.6	1119.99	104.3		235.8	178.60	105.3
	181.3	1120.79	104.3		237.4	181.30	105.3
	182.9	1121.80	104.3		239.1	184.01	105.3
	184.4	1122.48	104.3		240.8	186.59	105.3
	184.6	1122.56	104.3		242.4	189.35	105.3
End Shut-In(1)	184.8	1122.62	104.3		244.1	192.38	105.3
	184.9	1119.12	104.3		244.9	193.87	105.3
	185.1	88.85	103.6		245.1	194.04	105.3
Open To Flow (2)	185.3	78.91	103.9	Shut-In(2)	245.3	194.65	105.3
	185.4	76.94	104.0		245.4	194.75	105.3
	185.6	70.71	104.0		245.6	195.33	105.3
	185.8	70.75	104.0		245.8	195.51	105.3
	187.4	76.88	104.0		247.4	501.06	105.5
	189.1	82.81	104.0		249.1	573.06	105.5
	190.8	88.30	104.0		250.8	621.54	105.5
	192.4	92.76	104.0		252.4	658.79	105.5
	194.1	96.38	104.1		254.1	689.36	105.5
	195.8	100.15	104.2		255.8	715.09	105.5
	197.4	104.59	104.3		257.4	737.84	105.5

Printing every 10 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	259.1	757.80	105.5		327.4	1003.70	105.4
	260.8	775.44	105.5		329.1	1005.81	105.4
	262.4	791.18	105.5		330.8	1007.70	105.4
	264.1	805.62	105.5		332.4	1009.54	105.4
	265.8	819.01	105.5		334.1	1011.43	105.4
	267.4	831.00	105.5		335.8	1013.08	105.4
	269.1	842.18	105.5		337.4	1014.97	105.4
	270.8	852.43	105.5		339.1	1016.67	105.4
	272.4	862.11	105.5		340.8	1018.30	105.5
	274.1	870.99	105.5		342.4	1019.96	105.5
	275.8	879.27	105.5		344.1	1021.50	105.5
	277.4	887.09	105.5		345.8	1023.12	105.5
	279.1	894.30	105.5		347.4	1024.54	105.5
	280.8	901.12	105.5		349.1	1025.98	105.5
	282.4	907.70	105.5		350.8	1027.47	105.5
	284.1	913.73	105.5		352.4	1028.84	105.5
	285.8	919.61	105.5		354.1	1030.33	105.5
	287.4	925.11	105.5		355.8	1031.70	105.5
	289.1	930.31	105.5		357.4	1032.91	105.5
	290.8	935.26	105.5		359.1	1034.30	105.5
	292.4	939.96	105.5		360.8	1035.54	105.5
	294.1	944.66	105.5		362.4	1036.85	105.5
	295.8	948.64	105.5		364.1	1038.00	105.5
	297.4	952.75	105.5		365.8	1039.25	105.5
	299.1	956.55	105.5		367.4	1040.35	105.5
	300.8	960.34	105.5		369.1	1041.49	105.5
	302.4	964.24	105.5		370.8	1042.64	105.5
	304.1	967.27	105.5		372.4	1043.68	105.5
	305.8	970.58	105.5		374.1	1044.69	105.5
	307.4	973.70	105.5		375.8	1045.84	105.5
	309.1	976.74	105.5		377.4	1046.83	105.5
	310.8	979.66	105.4		379.1	1047.91	105.5
	312.4	982.36	105.4		380.8	1048.91	105.5
	314.1	985.17	105.4		382.4	1049.89	105.5
	315.8	987.72	105.4		384.1	1050.85	105.5
	317.4	990.27	105.4		385.8	1051.79	105.5
	319.1	992.68	105.4		387.4	1052.72	105.5
	320.8	995.02	105.4		389.1	1053.57	105.5
	322.4	997.34	105.4		390.8	1054.48	105.5
	324.1	999.46	105.4		392.4	1055.38	105.5
	325.8	1001.70	105.4		394.1	1056.31	105.5

Printing every 10 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	395.8	1057.10	105.5		447.9	1512.61	103.1
	397.4	1057.95	105.5		449.6	1445.81	102.7
	399.1	1058.74	105.5		451.3	1476.52	102.3
	400.8	1059.56	105.5		452.9	1421.06	101.6
	402.4	1060.33	105.5		454.6	1400.56	100.8
	404.1	1061.24	105.5		456.3	1334.59	99.9
	405.8	1061.98	105.5		457.9	1289.75	98.8
	407.4	1062.76	105.5		459.6	1177.00	97.9
	409.1	1063.53	105.5		461.3	1188.59	97.0
	410.8	1064.24	105.5		462.9	1095.61	96.3
	412.4	1065.04	105.5		464.6	1097.19	95.7
	414.1	1065.75	105.5		466.3	1037.50	95.0
	415.8	1066.48	105.5		467.9	938.11	94.1
	417.4	1067.25	105.5		469.6	927.61	93.5
	419.1	1067.92	105.5		471.3	880.32	93.4
	420.8	1068.56	105.5		472.9	804.98	93.5
	422.4	1069.31	105.5		474.6	732.13	93.5
	424.1	1069.98	105.5		476.3	723.93	93.4
	425.8	1070.94	105.5		477.9	662.16	93.0
	427.3	1071.20	105.5		479.6	601.72	92.2
	427.4	1071.24	105.5		481.3	532.79	90.5
End Shut-In(2)	427.6	1070.70	105.5		482.9	509.36	89.5
	427.8	1600.77	105.7		484.6	459.21	88.0
	427.9	1605.83	105.6		486.3	413.42	86.8
	428.1	1624.69	105.5		487.9	353.20	86.1
	428.8	1666.88	105.5		489.6	320.07	85.7
	428.9	1660.13	105.6		491.3	259.80	85.6
Final Hydro-static	429.1	1662.25	105.6		492.9	225.89	85.8
	429.3	1698.74	105.6		494.6	196.02	86.1
	429.4	1683.42	105.6		496.3	193.12	86.2
	429.6	1681.39	105.6		497.9	192.67	86.3
	431.3	1639.88	105.6		499.6	193.10	86.4
	432.9	1641.77	105.5		501.3	192.09	86.4
	434.6	1684.29	105.5		502.9	193.25	86.5
	436.3	1570.11	105.3		504.6	191.93	86.5
	437.9	1618.99	105.0		506.3	192.66	86.5
	439.6	1625.30	104.8		507.9	192.53	86.5
	441.3	1561.79	104.3		509.6	191.86	86.5
	442.9	1537.72	103.8		511.3	193.13	86.5
	444.6	1518.55	103.5		512.9	191.93	86.5
	446.3	1504.05	103.3		514.6	191.08	86.5

Printing every 10 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	516.3	192.37	86.5		584.6	0.45	84.0
	517.9	191.64	86.5		586.3	0.57	85.2
	519.6	190.84	86.5		587.9	0.69	86.4
	521.3	154.12	86.4		589.6	0.74	86.7
	522.9	149.82	86.4		591.3	0.57	87.3
	524.6	150.85	86.4		592.9	0.50	86.8
	526.3	149.04	86.4				
	527.9	107.57	86.4				
	529.6	105.10	86.4				
	531.3	80.78	86.4				
	532.9	62.36	86.4				
	534.6	61.28	86.4				
	536.3	17.52	86.4				
	537.9	17.31	86.5				
	539.6	16.91	86.6				
	541.3	-0.32	86.6				
	542.9	-0.42	86.8				
	544.6	-0.51	86.8				
	546.3	-0.54	86.8				
	547.9	-0.57	86.8				
	549.6	-0.52	86.8				
	551.3	-0.55	86.8				
	552.9	-0.56	86.8				
	554.6	-0.56	86.8				
	556.3	-0.57	86.7				
	557.9	-0.57	86.7				
	559.6	-0.47	86.7				
	561.3	-0.51	86.7				
	562.9	-0.70	80.1				
	564.6	-0.66	77.3				
	566.3	-0.61	76.8				
	567.9	-0.56	76.7				
	569.6	-0.49	76.9				
	571.3	-0.40	77.1				
	572.9	-0.40	77.2				
	574.6	-0.54	75.9				
	576.3	-0.39	75.8				
	577.9	-0.20	77.0				
	579.6	0.03	80.2				
	581.3	0.17	82.4				
	582.9	0.31	83.3				

Printing every 9 samples

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

Serial # 8017	**Inside**			**Serial # 8017**	**Inside**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.91	70.9		106.6	1618.44	101.4
	0.8	-1.96	73.1		108.1	1641.13	101.8
	1.5	-1.85	73.8		109.6	1670.72	102.3
	41.9	-2.29	63.7		111.1	1652.32	102.4
	63.1	72.76	91.8		112.6	1695.23	102.7
	64.6	162.98	91.7		114.1	1674.10	102.7
	66.1	224.17	89.3		115.6	1660.78	102.8
	67.6	285.53	88.5		117.1	1760.68	102.8
	69.1	382.33	91.5		118.6	1737.54	102.9
	70.6	437.75	92.4		120.1	36.17	102.7
	72.1	455.24	93.0		121.6	41.49	103.2
	73.6	497.51	93.3		123.1	47.25	103.6
	75.1	564.13	93.6		124.6	53.68	103.8
	76.6	655.26	93.7		126.1	356.84	104.0
	78.1	650.12	93.9		127.6	685.01	104.2
	79.6	713.05	94.4		129.1	801.49	104.3
	81.1	774.42	94.6		130.6	879.35	104.4
	82.6	837.62	94.7		132.1	931.81	104.4
	84.1	907.87	95.1		133.6	967.21	104.4
	85.6	929.07	95.2		135.1	992.39	104.4
	87.1	995.19	96.3		136.6	1011.11	104.4
	88.6	1055.00	96.8		138.1	1025.87	104.4
	90.1	1106.20	97.0		139.6	1037.86	104.4
	91.6	1156.85	96.9		141.1	1047.58	104.4
	93.1	1220.22	97.3		142.6	1055.96	104.4
	94.6	1247.32	97.8		144.1	1062.86	104.4
	96.1	1301.21	98.4		145.6	1069.05	104.4
	97.6	1331.35	98.8		147.1	1074.17	104.4
	99.1	1400.73	99.4		148.6	1078.83	104.4
	100.6	1414.24	99.8		150.1	1082.90	104.4
	102.1	1579.25	100.1		151.6	1086.63	104.4
	103.6	1518.56	100.6		153.1	1089.77	104.4
	105.1	1544.42	100.9		154.6	1092.80	104.4

Printing every 9 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	156.1	1095.46	104.4		217.6	143.24	105.3
	157.6	1097.92	104.4		219.1	146.11	105.3
	159.1	1100.07	104.4		220.6	149.00	105.3
	160.6	1102.16	104.4		222.1	151.82	105.3
	162.1	1104.17	104.3		223.6	154.60	105.4
	163.6	1105.84	104.3		225.1	157.77	105.4
	165.1	1107.47	104.3		226.6	160.05	105.4
	166.6	1109.00	104.3		228.1	162.48	105.4
	168.1	1110.30	104.3		229.6	165.54	105.4
	169.6	1111.65	104.3		231.1	168.19	105.4
	171.1	1112.84	104.3		232.6	170.65	105.4
	172.6	1113.96	104.3		234.1	173.46	105.4
	174.1	1115.11	104.3		235.6	176.02	105.5
	175.6	1116.12	104.3		237.1	178.20	105.5
	177.1	1117.10	104.3		238.6	180.78	105.5
	178.6	1118.04	104.3		240.1	183.36	105.5
	180.1	1118.82	104.3		241.6	185.82	105.5
	181.6	1119.71	104.3		243.1	188.03	105.5
	183.1	1120.42	104.3		244.6	190.76	105.5
	184.6	1121.30	104.3		246.1	377.76	105.6
	186.1	69.16	104.1		247.6	511.64	105.6
	187.6	74.69	104.1		249.1	573.43	105.7
	189.1	80.32	104.2		250.6	617.13	105.7
	190.6	85.32	104.2		252.1	651.53	105.7
	192.1	89.74	104.2		253.6	680.24	105.7
	193.6	92.94	104.3		255.1	704.57	105.7
	195.1	96.25	104.5		256.6	726.05	105.7
	196.6	100.43	104.6		258.1	745.31	105.7
	198.1	103.45	104.8		259.6	762.39	105.7
	199.6	106.60	104.8		261.1	777.81	105.7
	201.1	110.01	104.9		262.6	791.65	105.6
	202.6	113.40	105.0		264.1	804.63	105.6
	204.1	116.42	105.0		265.6	816.64	105.6
	205.6	119.38	105.0		267.1	827.67	105.6
	207.1	121.98	105.1		268.6	837.81	105.6
	208.6	125.39	105.1		270.1	847.25	105.6
	210.1	128.10	105.1		271.6	856.27	105.6
	211.6	131.01	105.2		273.1	864.58	105.6
	213.1	134.22	105.2		274.6	872.37	105.6
	214.6	137.41	105.2		276.1	879.75	105.6
	216.1	140.56	105.3		277.6	886.61	105.6

Printing every 9 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	279.1	893.18	105.6		340.6	1016.76	105.6
	280.6	899.34	105.6		342.1	1018.28	105.6
	282.1	905.33	105.6		343.6	1019.62	105.6
	283.6	910.87	105.6		345.1	1021.05	105.6
	285.1	916.41	105.6		346.6	1022.44	105.6
	286.6	921.13	105.6		348.1	1023.71	105.6
	288.1	925.99	105.6		349.6	1025.04	105.6
	289.6	930.85	105.6		351.1	1026.41	105.6
	291.1	935.05	105.6		352.6	1027.64	105.6
	292.6	939.44	105.6		354.1	1028.89	105.6
	294.1	943.19	105.6		355.6	1030.15	105.6
	295.6	947.08	105.6		357.1	1031.36	105.6
	297.1	950.72	105.6		358.6	1032.44	105.6
	298.6	954.22	105.6		360.1	1033.70	105.6
	300.1	957.65	105.6		361.6	1034.84	105.6
	301.6	960.93	105.6		363.1	1035.91	105.6
	303.1	964.01	105.6		364.6	1036.91	105.6
	304.6	967.01	105.6		366.1	1038.07	105.6
	306.1	969.93	105.6		367.6	1039.08	105.6
	307.6	972.68	105.6		369.1	1040.16	105.6
	309.1	975.39	105.6		370.6	1041.11	105.6
	310.6	978.12	105.6		372.1	1042.16	105.6
	312.1	980.57	105.6		373.6	1043.00	105.6
	313.6	982.97	105.6		375.1	1044.05	105.6
	315.1	985.37	105.6		376.6	1045.00	105.6
	316.6	987.68	105.6		378.1	1045.86	105.6
	318.1	989.89	105.6		379.6	1046.84	105.6
	319.6	992.18	105.6		381.1	1047.64	105.6
	321.1	994.18	105.6		382.6	1048.56	105.6
	322.6	996.29	105.6		384.1	1049.41	105.6
	324.1	998.18	105.6		385.6	1050.28	105.6
	325.6	1000.10	105.6		387.1	1051.08	105.6
	327.1	1001.94	105.6		388.6	1051.92	105.6
	328.6	1003.82	105.6		390.1	1052.71	105.6
	330.1	1005.60	105.6		391.6	1053.55	105.6
	331.6	1007.30	105.6		393.1	1054.33	105.6
	333.1	1008.97	105.6		394.6	1055.13	105.6
	334.6	1010.63	105.6		396.1	1055.84	105.6
	336.1	1012.19	105.6		397.6	1056.63	105.6
	337.6	1013.85	105.6		399.1	1057.34	105.6
	339.1	1015.35	105.6		400.6	1058.08	105.6

Printing every 9 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	402.1	1058.87	105.6		463.6	1125.95	95.9
	403.6	1059.64	105.6		465.1	1078.60	95.2
	405.1	1060.25	105.6		466.6	1000.80	93.8
	406.6	1061.00	105.6		468.1	975.66	93.4
	408.1	1061.76	105.6		469.6	880.51	93.4
	409.6	1062.29	105.6		471.1	880.25	93.6
	411.1	1063.13	105.6		472.6	793.05	93.5
	412.6	1063.67	105.6		474.1	785.47	93.6
	414.1	1064.43	105.6		475.6	712.30	93.5
	415.6	1065.04	105.6		477.1	691.65	93.6
	417.1	1065.67	105.6		478.6	639.04	92.8
	418.6	1066.27	105.6		480.1	596.30	90.6
	420.1	1066.98	105.6		481.6	543.25	89.3
	421.6	1067.48	105.6		483.1	504.31	88.4
	423.1	1068.08	105.6		484.6	441.46	87.1
	424.6	1068.74	105.6		486.1	411.46	86.1
	426.1	1069.59	105.6		487.6	347.53	85.6
	427.6	1060.33	105.6		489.1	319.41	85.4
	429.1	1709.52	105.9		490.6	286.56	85.7
	430.6	1648.82	105.9		492.1	226.59	86.0
	432.1	1626.85	105.8		493.6	194.39	86.2
	433.6	1690.72	105.6		495.1	191.75	86.4
	435.1	1654.00	105.6		496.6	190.55	86.5
	436.6	1653.94	105.2		498.1	191.23	86.5
	438.1	1615.17	105.1		499.6	190.88	86.5
	439.6	1620.22	104.9		501.1	189.87	86.5
	441.1	1574.54	104.1		502.6	190.47	86.5
	442.6	1540.42	103.9		504.1	190.91	86.5
	444.1	1522.02	103.9		505.6	189.95	86.5
	445.6	1508.11	103.7		507.1	189.73	86.5
	447.1	1497.68	103.6		508.6	190.54	86.6
	448.6	1517.52	102.9		510.1	190.79	86.6
	450.1	1498.97	102.7		511.6	190.01	86.6
	451.6	1459.04	102.4		513.1	189.08	86.6
	453.1	1366.17	101.5		514.6	188.91	86.6
	454.6	1394.55	100.7		516.1	190.23	86.6
	456.1	1336.69	100.1		517.6	190.05	86.6
	457.6	1224.03	98.9		519.1	189.49	86.6
	459.1	1251.99	98.0		520.6	182.50	86.6
	460.6	1207.90	97.2		522.1	150.80	86.4
	462.1	1167.10	96.4		523.6	150.13	86.4

Printing every 9 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	525.1	146.82	86.4		586.6	-1.76	80.8
	526.6	133.23	86.4		588.1	-1.52	80.7
	528.1	104.90	86.5		589.6	-1.30	81.1
	529.6	102.72	86.4		591.1	-2.28	82.5
	531.1	88.41	86.4		592.6	-2.31	83.9
	532.6	60.24	86.5		592.9	-2.25	84.7
	534.1	59.31	86.5				
	535.6	54.38	86.5				
	537.1	15.01	86.8				
	538.6	15.32	86.8				
	540.1	14.53	86.8				
	541.6	0.73	87.0				
	543.1	-1.98	86.9				
	544.6	-2.05	86.9				
	546.1	-2.04	86.9				
	547.6	-2.03	86.9				
	549.1	-2.09	86.9				
	550.6	-2.07	86.9				
	552.1	-2.04	86.9				
	553.6	-2.01	86.9				
	555.1	-2.14	86.9				
	556.6	-2.29	86.9				
	558.1	-2.27	86.9				
	559.6	-2.28	86.8				
	561.1	-2.28	86.8				
	562.6	-2.75	84.2				
	564.1	-2.38	74.3				
	565.6	-2.25	75.4				
	567.1	-2.15	77.0				
	568.6	-2.09	77.8				
	570.1	-2.04	77.8				
	571.6	-2.12	78.4				
	573.1	-2.39	79.2				
	574.6	-2.37	73.1				
	576.1	-2.17	72.8				
	577.6	-2.12	73.7				
	579.1	-2.06	76.1				
	580.6	-2.04	78.5				
	582.1	-2.04	80.5				
	583.6	-1.98	81.0				
	585.1	-1.88	81.0				

Printing every 4 samples

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & assoc.

1515 Wynkoop ste 700
Denver Co. 80202

ATTN: Neil Sharpe

Schumacher-Dreiling 1-1

1-15s-17w Ellis co

Job Ticket: 040397 **DST#: 2**

Test Start: 2010.09.25 @ 08:00:05

Serial # 8650	**Fluid**			**Serial # 8650**	**Fluid**		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.23	72.4		65.5	-1.11	76.6
	0.1	-1.24	72.6		67.5	-1.08	78.8
	0.1	-1.26	72.8		69.5	-1.03	80.8
	0.2	-1.26	72.9		71.5	-0.99	82.6
	0.3	-1.26	73.0		73.5	-0.96	84.2
	0.3	-1.26	73.0		75.5	-0.94	85.7
	0.4	-1.27	73.0		77.5	-0.92	86.9
	0.5	-1.25	73.0		79.5	-0.89	88.3
	0.5	-1.24	73.1		81.5	-0.85	90.5
	0.6	-1.22	73.1		83.5	-0.81	91.4
	0.7	-1.23	73.2		85.5	-0.78	92.3
	0.7	-1.25	73.4		87.5	-0.74	92.9
	0.8	-1.26	73.8		89.5	-0.70	93.5
	0.9	-1.27	74.1		91.5	-0.64	94.0
	0.9	-1.28	74.5		93.5	-0.61	94.5
	1.0	-1.30	74.8		95.5	-0.56	95.0
	1.1	-1.32	75.0		97.5	-0.50	95.5
	1.1	-1.31	75.1		99.5	-0.45	96.0
	1.2	-1.33	75.1		101.5	-0.40	96.6
	1.3	-1.32	75.1		103.5	-0.35	97.1
	1.3	-1.32	75.1		105.5	-0.32	97.6
	1.4	-1.28	75.1		107.5	-0.29	98.2
	1.5	-1.28	75.0		109.5	-0.29	98.8
	1.5	-1.27	75.1		111.5	-0.29	99.4
	1.6	-1.28	75.1		113.5	-0.28	99.9
	1.7	-1.31	75.3		115.5	-0.24	100.3
	1.7	-1.31	75.7		117.5	-0.23	100.6
	1.8	-1.33	76.0		118.5	-0.22	100.8
	1.9	-1.31	76.2		119.0	-0.21	100.9
	1.9	-1.28	76.4	Open To Flow (1)	119.5	-0.21	101.1
	12.0	-1.23	69.1		120.0	-0.18	101.2
	52.0	-1.18	63.6		120.5	-0.15	101.4
	63.5	-1.15	73.2		121.0	-0.17	101.5

Printing every 4 samples

Serial # 8650	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	123.0	3.11	101.6
	124.0	7.54	102.8
	124.5	9.47	102.7
Shut-In(1)	125.0	11.47	102.6
	125.5	11.47	102.6
	126.0	11.44	102.6
	126.5	11.37	102.6
	128.5	11.41	102.7
	130.5	11.43	102.7
	132.5	11.46	102.7
	134.5	11.47	102.7
	136.5	11.41	102.7
	138.5	11.33	102.7
	140.5	11.26	102.8
	142.5	11.18	102.8
	144.5	11.15	102.8
	146.5	11.11	102.8
	148.5	11.08	102.8
	150.5	11.08	102.8
	152.5	11.06	102.8
	154.5	11.04	102.8
	156.5	11.03	102.9
	158.5	11.01	102.9
	160.5	11.02	102.9
	162.5	11.01	102.9
	164.5	11.00	102.9
	166.5	11.02	102.9
	168.5	11.04	102.9
	170.5	11.07	102.9
	172.5	11.08	103.0
	174.5	11.09	103.0
	176.5	11.10	103.0
	178.5	11.12	103.0
	180.5	11.13	103.0
	182.5	11.14	103.0
	183.0	11.14	103.0
End Shut-In(1)	183.5	11.15	103.0
Open To Flow (2)	184.0	11.15	103.0
	184.5	18.03	103.1
	185.0	21.21	103.1
	187.0	30.11	103.4

Serial # 8650	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	189.0	37.44	103.5
	191.0	43.18	103.5
	193.0	49.24	103.5
	195.0	55.12	103.6
	197.0	60.79	103.7
	199.0	65.39	103.7
	201.0	70.31	103.8
	203.0	74.15	103.8
	205.0	77.88	103.9
	207.0	81.82	103.8
	209.0	85.70	103.9
	211.0	89.47	103.9
	213.0	93.69	103.8
	215.0	97.91	103.9
	217.0	101.52	103.9
	219.0	105.14	104.0
	221.0	108.85	104.0
	223.0	112.63	104.0
	225.0	116.41	104.1
	227.0	119.69	104.1
	229.0	123.84	104.2
	231.0	127.19	104.2
	233.0	131.07	104.2
	235.0	134.34	104.3
	237.0	137.83	104.3
	239.0	141.10	104.3
	241.0	144.44	104.4
	243.0	147.93	104.4
	243.5	148.72	104.4
	244.0	149.75	104.4
Shut-In(2)	244.5	150.62	104.4
	245.0	150.19	104.4
	245.5	150.05	104.4
	246.0	150.02	104.4
	248.0	150.09	104.4
	250.0	150.12	104.4
	252.0	150.13	104.3
	254.0	150.10	104.3
	256.0	150.03	104.3
	258.0	149.97	104.3
	260.0	149.90	104.3

Printing every 4 samples

Serial # 8650	Fluid			Serial # 8650	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	262.0	149.84	104.3		344.0	149.57	104.1
	264.0	149.78	104.2		346.0	149.56	104.1
	266.0	149.74	104.2		348.0	149.55	104.1
	268.0	149.71	104.2		350.0	149.54	104.1
	270.0	149.69	104.2		352.0	149.53	104.1
	272.0	149.67	104.2		354.0	149.50	104.1
	274.0	149.66	104.2		356.0	149.49	104.1
	276.0	149.64	104.2		358.0	149.48	104.1
	278.0	149.63	104.2		360.0	149.48	104.1
	280.0	149.63	104.2		362.0	149.48	104.1
	282.0	149.65	104.2		364.0	149.48	104.1
	284.0	149.65	104.2		366.0	149.50	104.1
	286.0	149.66	104.2		368.0	149.52	104.1
	288.0	149.67	104.2		370.0	149.54	104.1
	290.0	149.66	104.2		372.0	149.54	104.1
	292.0	149.67	104.2		374.0	149.53	104.1
	294.0	149.66	104.2		376.0	149.52	104.1
	296.0	149.64	104.2		378.0	149.53	104.1
	298.0	149.64	104.2		380.0	149.54	104.1
	300.0	149.64	104.1		382.0	149.53	104.1
	302.0	149.64	104.1		384.0	149.53	104.1
	304.0	149.65	104.1		386.0	149.52	104.1
	306.0	149.65	104.1		388.0	149.52	104.1
	308.0	149.65	104.1		390.0	149.50	104.1
	310.0	149.65	104.1		392.0	149.50	104.1
	312.0	149.63	104.1		394.0	149.50	104.1
	314.0	149.63	104.1		396.0	149.53	104.1
	316.0	149.62	104.1		398.0	149.57	104.1
	318.0	149.63	104.1		400.0	149.59	104.1
	320.0	149.64	104.1		402.0	149.60	104.1
	322.0	149.63	104.1		404.0	149.60	104.1
	324.0	149.61	104.1		406.0	149.58	104.1
	326.0	149.59	104.1		408.0	149.60	104.1
	328.0	149.57	104.1		410.0	149.59	104.1
	330.0	149.56	104.1		412.0	149.61	104.1
	332.0	149.57	104.1		414.0	149.61	104.1
	334.0	149.56	104.1		416.0	149.62	104.1
	336.0	149.56	104.1		418.0	149.62	104.1
	338.0	149.56	104.1		420.0	149.63	104.1
	340.0	149.56	104.1		422.0	149.64	104.1
	342.0	149.55	104.1		424.0	149.65	104.1

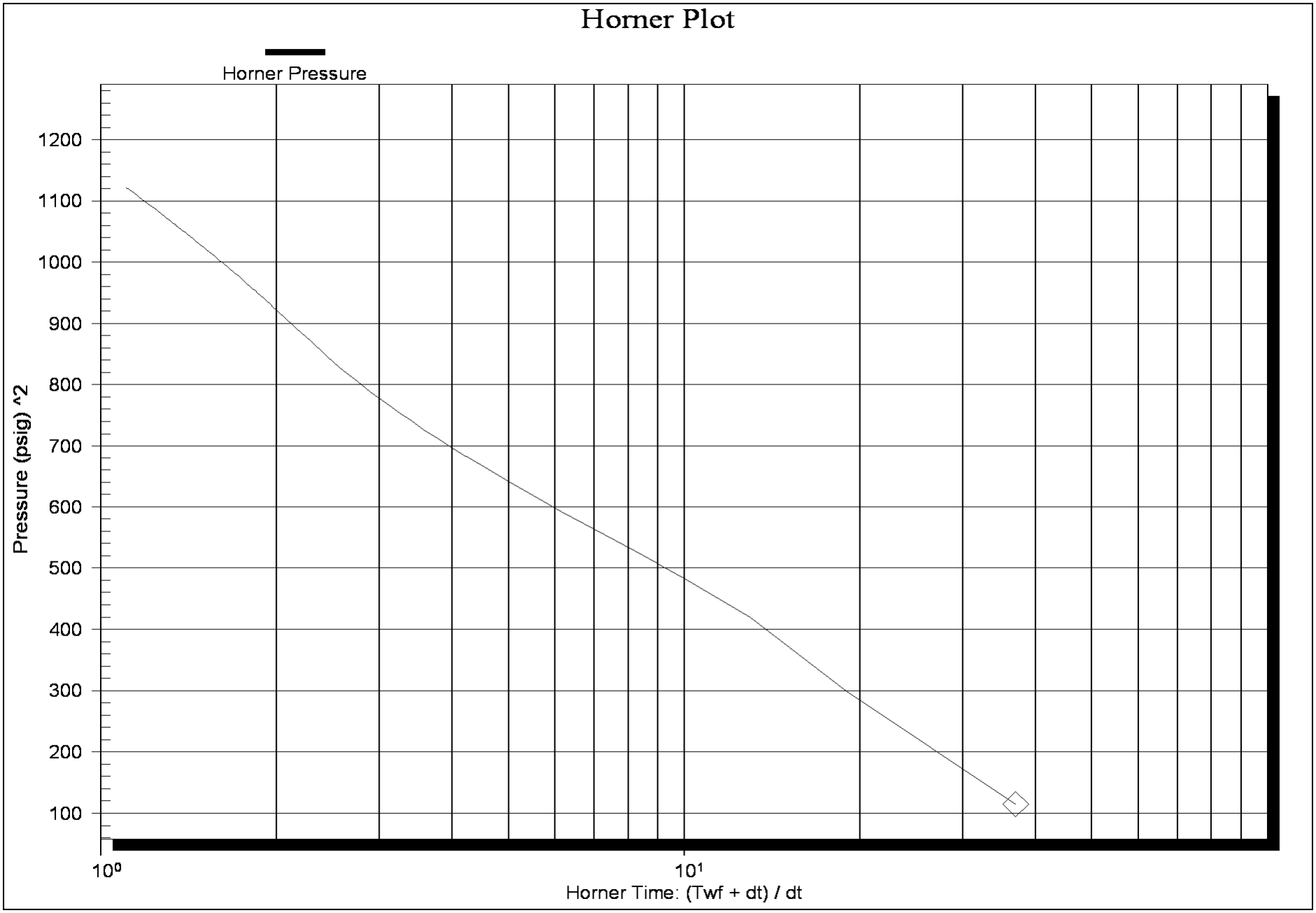
Printing every 4 samples

Serial # 8650	Fluid			Serial # 8650	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	425.5	149.59	104.1		500.0	148.89	93.1
	426.0	148.82	104.1		502.0	149.40	92.9
End Shut-In(2)	426.5	150.24	104.1		504.0	149.66	92.6
	427.0	150.34	104.1		506.0	150.03	92.4
	427.5	150.19	104.1		508.0	150.60	92.1
	428.0	150.46	104.1		510.0	150.41	91.9
	430.0	149.74	104.1		512.0	150.85	91.6
	432.0	152.48	104.1		514.0	150.91	91.4
	434.0	149.98	104.0		516.0	150.95	91.2
	436.0	149.66	104.0		518.0	151.70	91.0
	438.0	150.00	103.9		520.0	142.34	90.8
	440.0	150.75	103.7		522.0	114.25	90.6
	442.0	149.42	103.4		524.0	122.18	90.4
	444.0	149.33	103.1		526.0	110.48	90.3
	446.0	150.07	102.9		528.0	89.28	90.1
	448.0	159.90	102.6		530.0	81.94	90.0
	450.0	146.86	102.2		532.0	56.96	89.8
	452.0	149.89	101.9		534.0	55.05	89.7
	454.0	150.26	101.2		536.0	56.10	89.6
	456.0	150.07	100.9		538.0	27.96	89.5
	458.0	150.24	100.5		540.0	26.32	89.3
	460.0	150.17	99.9		542.0	-1.74	87.5
	462.0	148.83	99.2		544.0	-1.73	86.2
	464.0	149.77	98.8		546.0	-1.66	85.0
	466.0	148.08	98.4		548.0	-1.52	84.1
	468.0	150.20	98.1		550.0	-1.40	83.3
	470.0	151.09	98.2		552.0	-1.29	82.6
	472.0	146.83	98.4		554.0	-1.21	82.1
	474.0	149.41	98.3		556.0	-1.16	81.6
	476.0	149.87	97.8		558.0	-1.13	81.1
	478.0	149.37	97.3		560.0	-1.08	80.7
	480.0	149.03	96.9		562.0	-1.21	75.9
	482.0	147.91	96.2		564.0	-1.05	76.0
	484.0	149.09	95.4		566.0	-1.06	76.3
	486.0	148.44	94.9		568.0	-1.03	76.7
	488.0	149.56	94.7		570.0	-1.66	76.9
	490.0	152.47	94.3		572.0	-1.53	76.3
	492.0	148.95	93.8		574.0	-1.47	76.4
	494.0	143.58	93.8		576.0	-1.47	78.4
	496.0	147.10	93.6		578.0	-1.49	81.0
	498.0	148.23	93.4		580.0	-1.51	82.6

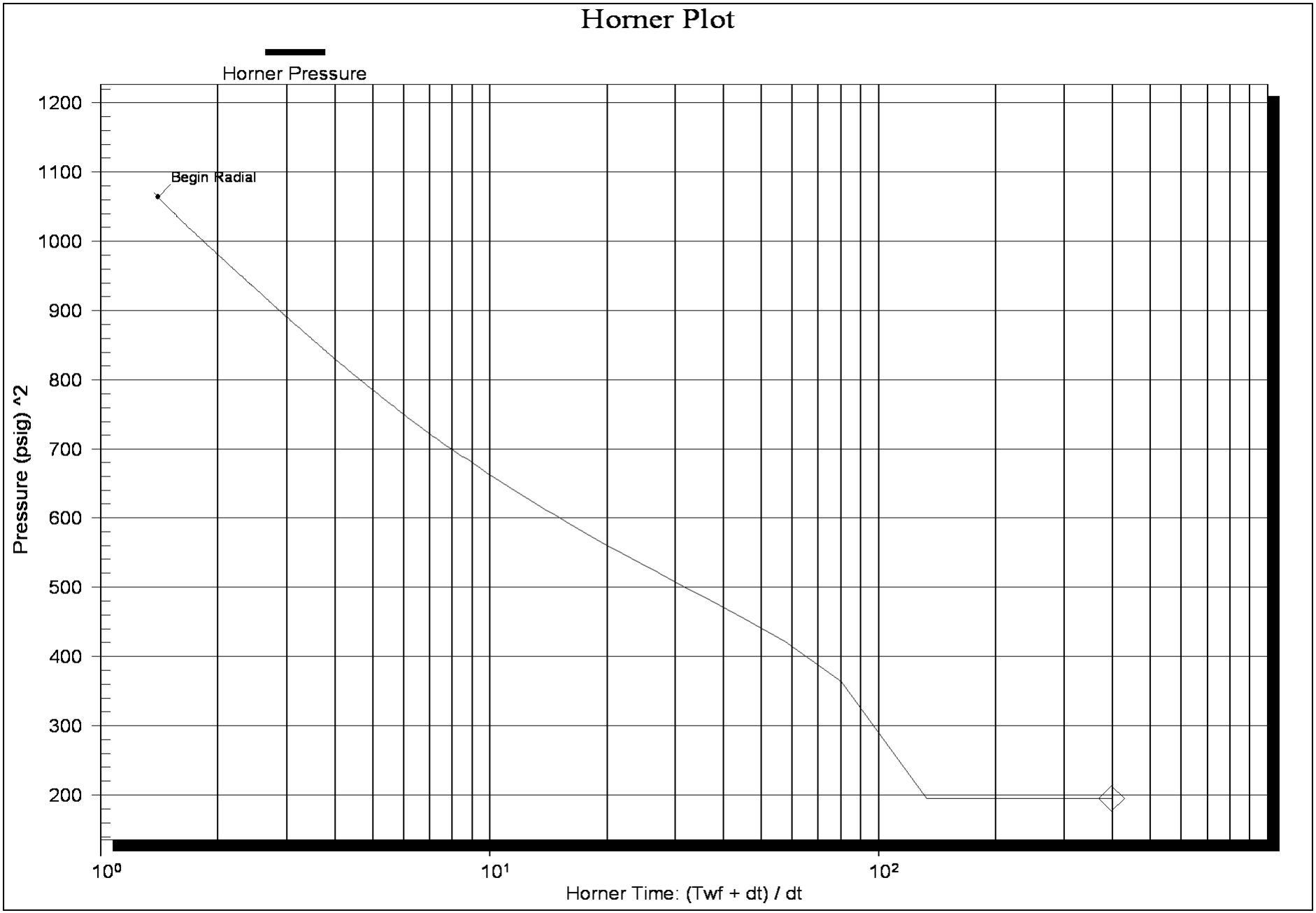
Printing every 4 samples

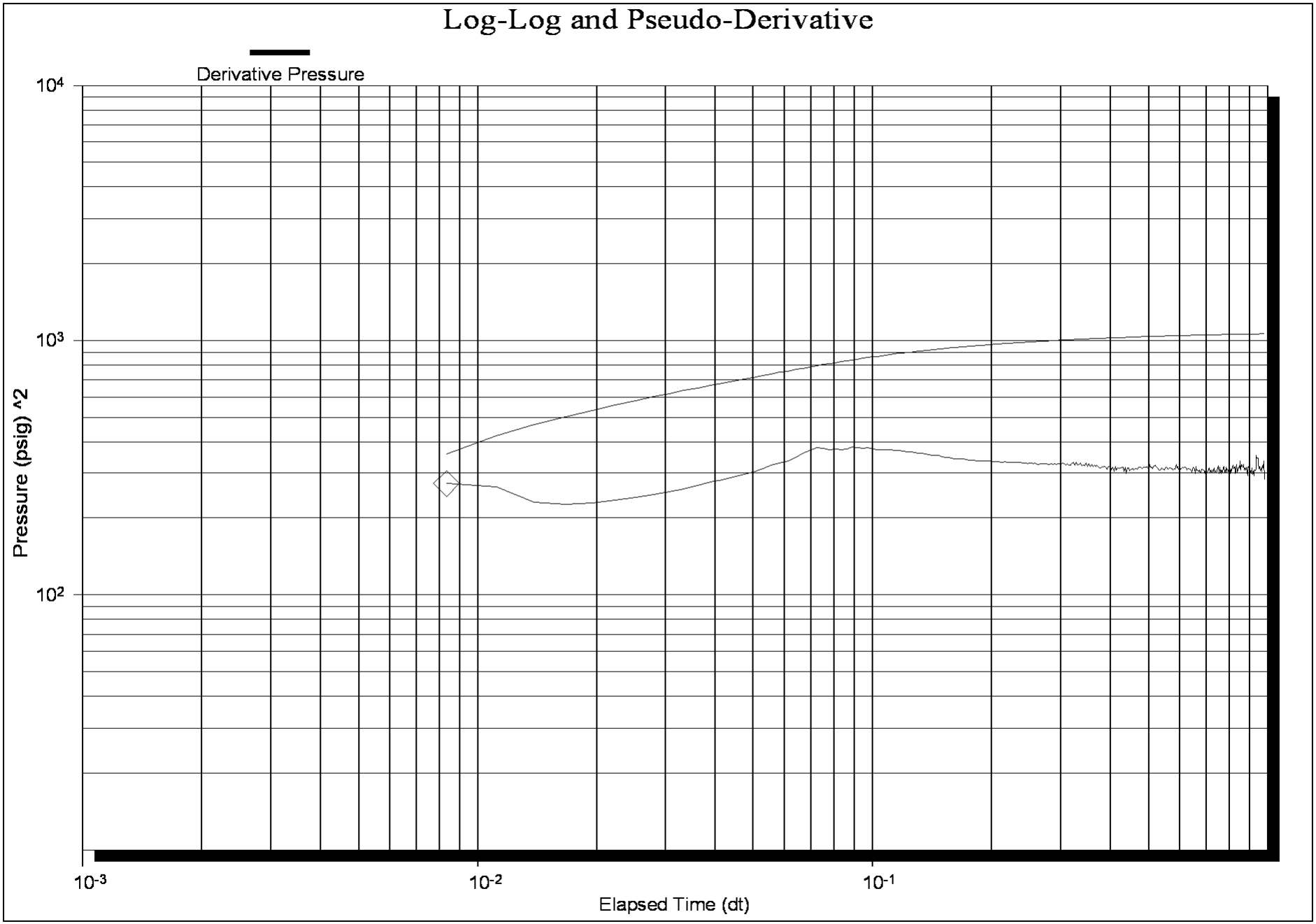
Serial # 8650	Fluid		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	582.0	-1.52	83.4
	584.0	-1.58	84.9
	586.0	-1.65	86.0
	588.0	-1.45	86.4
	590.0	-1.76	86.7
	590.5	-1.67	86.9

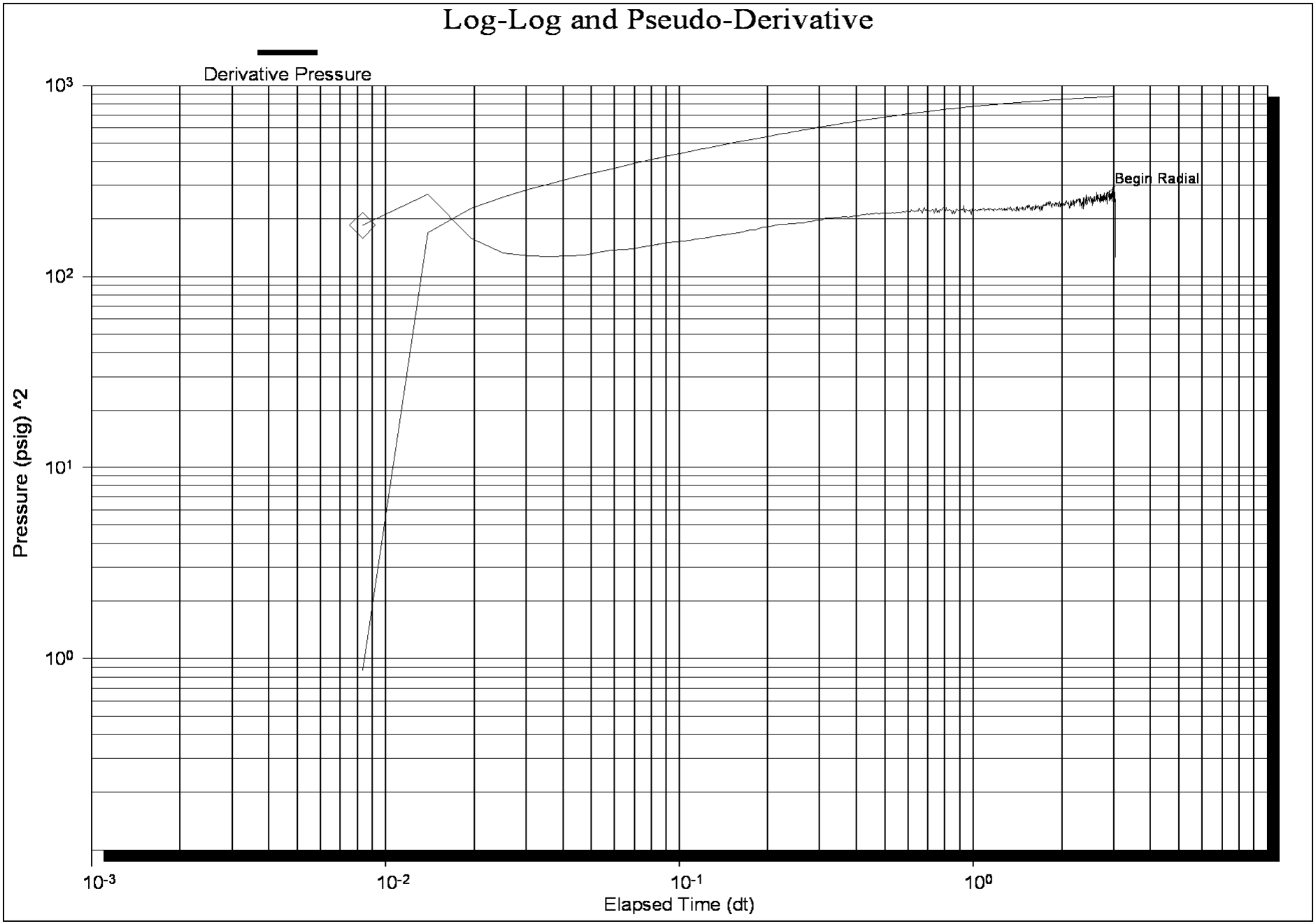
Printing every 4 samples



Serial Number: 8352 (Outside) P* : Slope (m) : kpa/log cycle Flow Cycle: 1


Horner Plot
Horner Pressure
Begin Radial
1200
1100
1000
900
800
700
600
500
400
300
200
Pressure (psig) ^2
10⁰
10¹
10²
Horner Time: (Twf + dt) / dt


Log-Log and Pseudo-Derivative
Derivative Pressure
10^4
10^3
10^2
Pressure (psig) ^2
10^-3
10^-2
10^-1
Elapsed Time (dt)


Log-Log and Pseudo-Derivative
Derivative Pressure
Begin Radial
Pressure (psig) ^2
Elapsed Time (dt)
10^3
10^2
10^1
10^0
10^-3
10^-2
10^-1
10^0

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

Well Name:	SCHUMACHER-DREILING 1-1		
Location:	SEC 1,15S,17W , ELLIS Co. Kansas		
License Number:	15-051-26026-0000	Region:	Wildcat
Spud Date:	09/19/2010	Drilling Completed:	09/26/2010
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation (ft):	1932'	K.B. Elevation (ft):	1942'
Logged Interval (ft):	1800 To: 3610'	Total Depth (ft):	3610'
Formation:	Lansing, Arbuckle		
Type of Drilling Fluid:			

OPERATOR

Company: Samuel Gary Jr, & Assoc.
Address: 1515 Wykoop, Ste. # 700
Denver, Colo. 80202
Geo: Neal D. Sharp

GEOLOGIST

Name: Rodney Napier
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-655-8252

Circulating Report

START ONE MANNED UNIT 09/22/2010

DST's Report

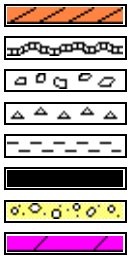
DST#13192'-3242' ANCHOR:50' IF:BOB 2 MIN,IS NO RTN,FF:BOB IMEDIATLEY GAS TO SURFACE 45 MIN,FS:RTN BLOW BUILDING TO 8"
RECOVERY:230' GO 124' OCGM TOTAL 354' BHT 102, GRAVITY 41
IH:1558,FIF:29,FFF:45,ISI:1098,SIF:56,SFF:150,FSI:1085,
FH:1534 TIMES:5,60,60,180

.

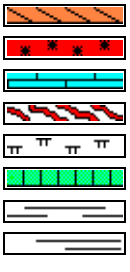
DST's Report

DST#2 3447'-3509' ANCHOR 62' IF 8"BLOW,IS NO RTN,FF:BOB 11 MIN, FS: NO RTN
RECOVERY: 92' CO,124'OCM,62'OCM124'WATER BHT:104 GRAVITY:24
IH:1738,FIF:39,FFF:60,ISI:78,SFF:194,FSI:1070,FH:1662
TIMES 5 60,60,180

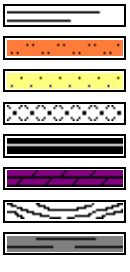
ROCK TYPES



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

Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

ACCESSORIES

MINERAL

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

Salt
Sandy
Silt
Sil
Sulphur
Tuff
Chlorite
Dol
Sand
Slty

FOSSIL

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

Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomold

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh

Clystn
Dol
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

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

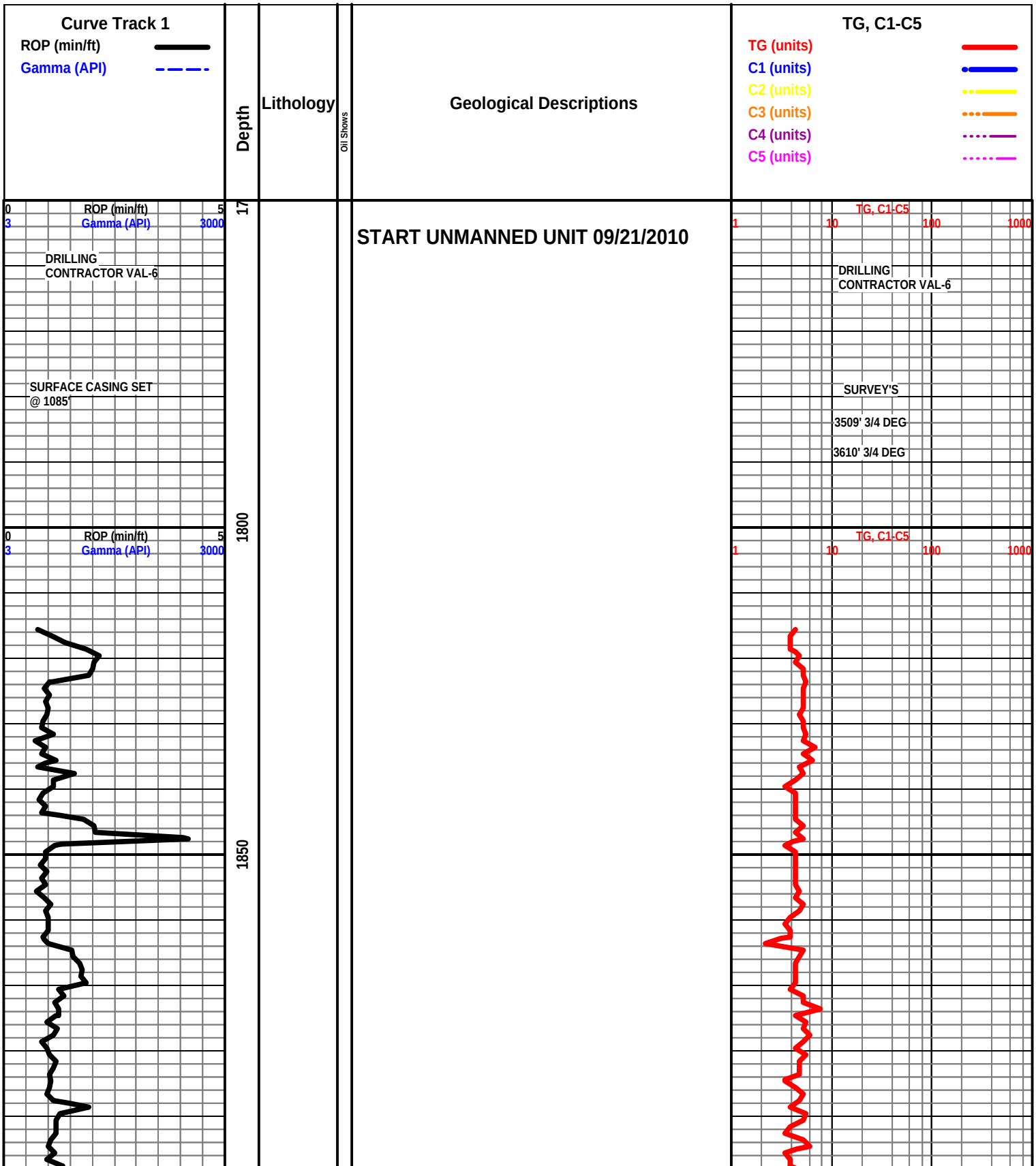
SORTING
- Well
- Moderate
- Poor

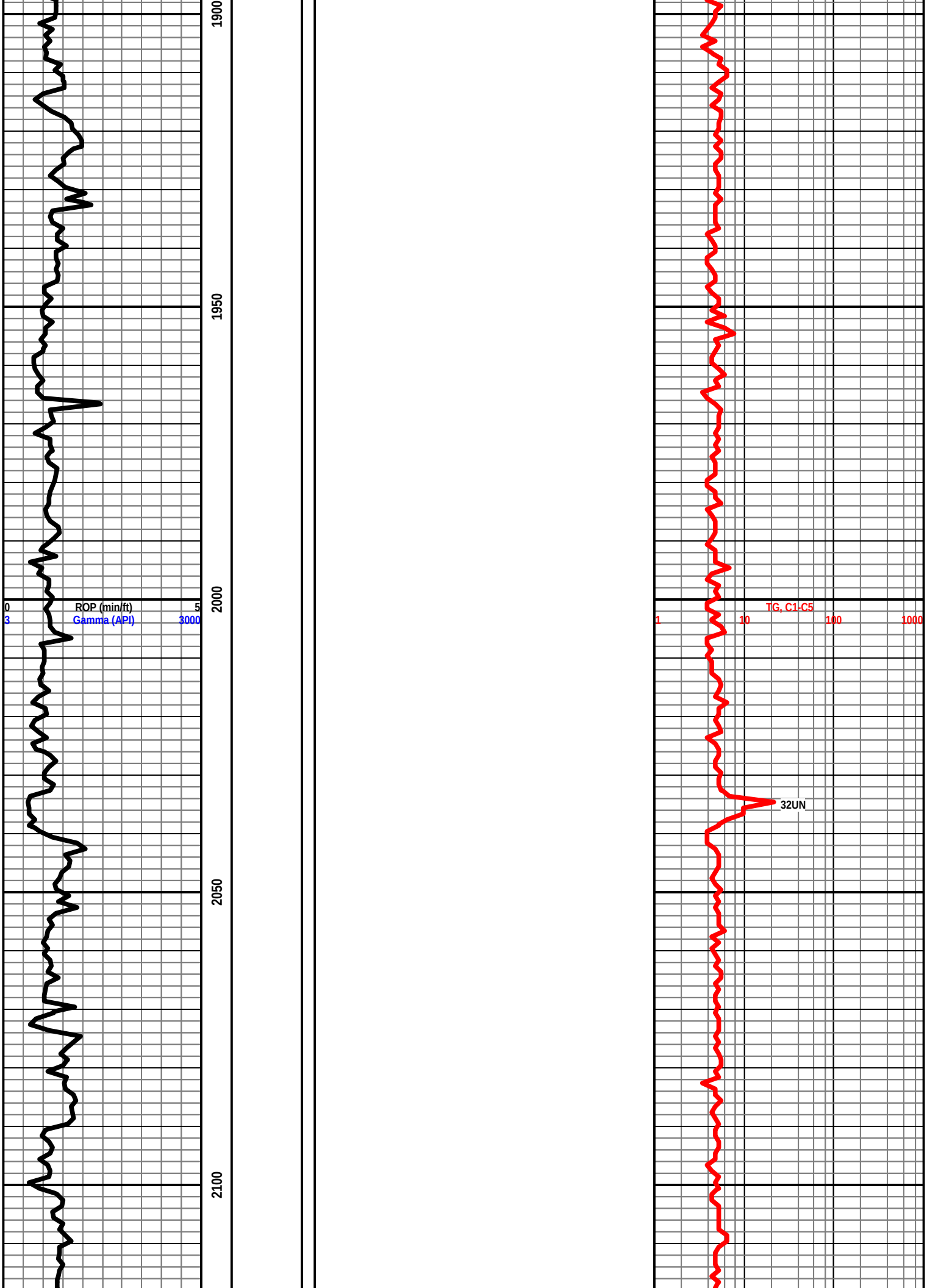
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

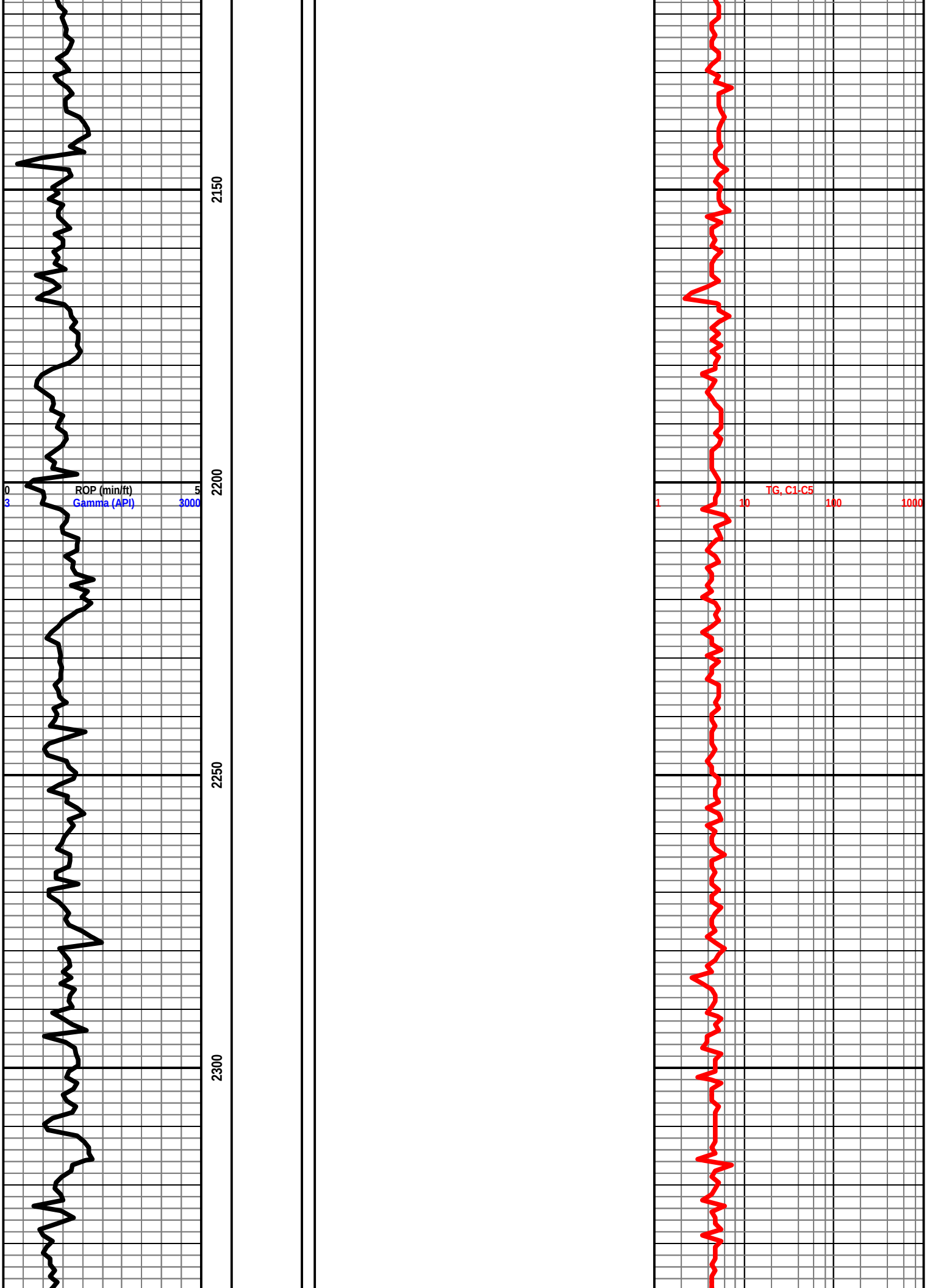
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

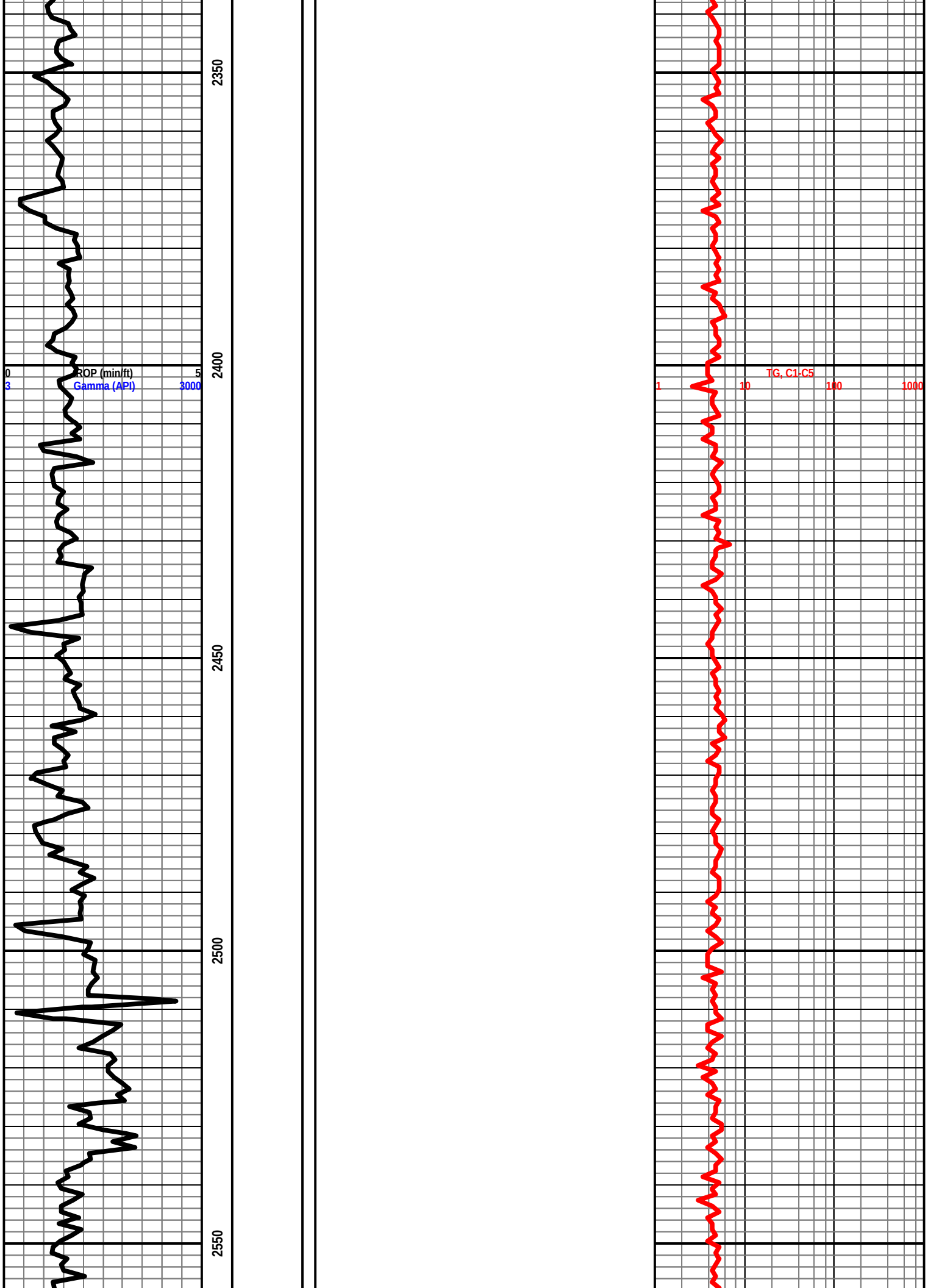
INTERVALS
- Core
- Dst
- Dst

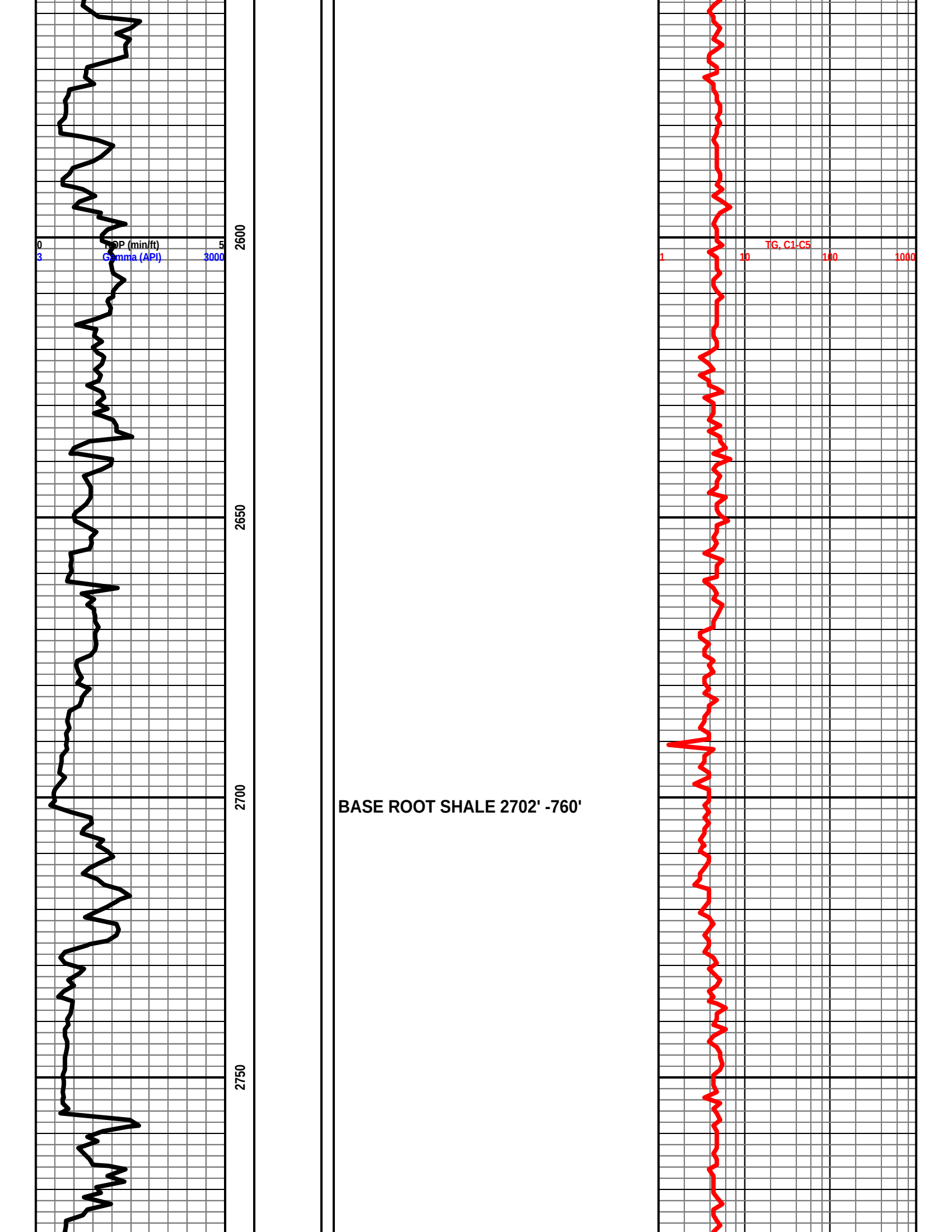
EVENTS
- Rft
- Sidewall

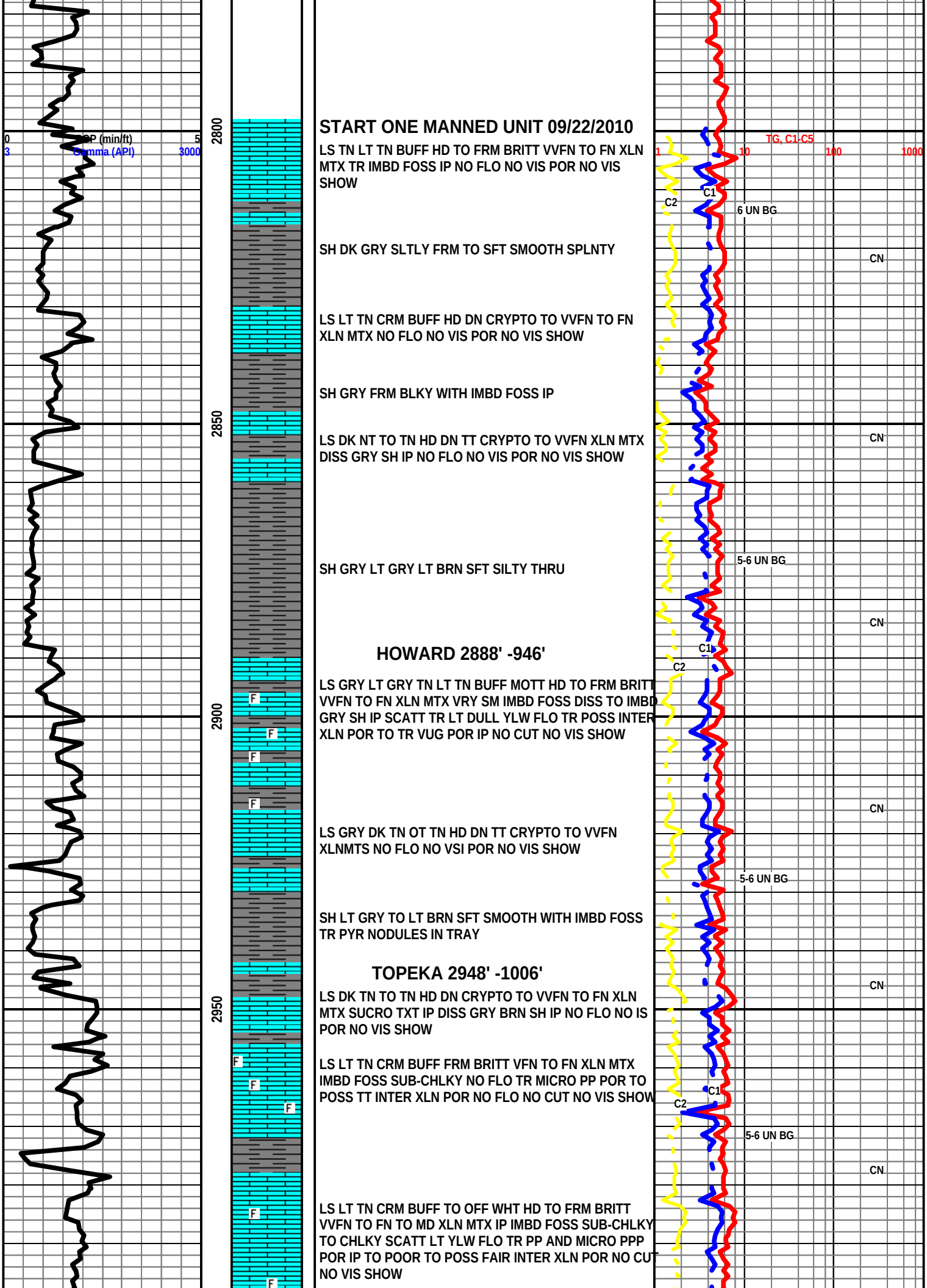


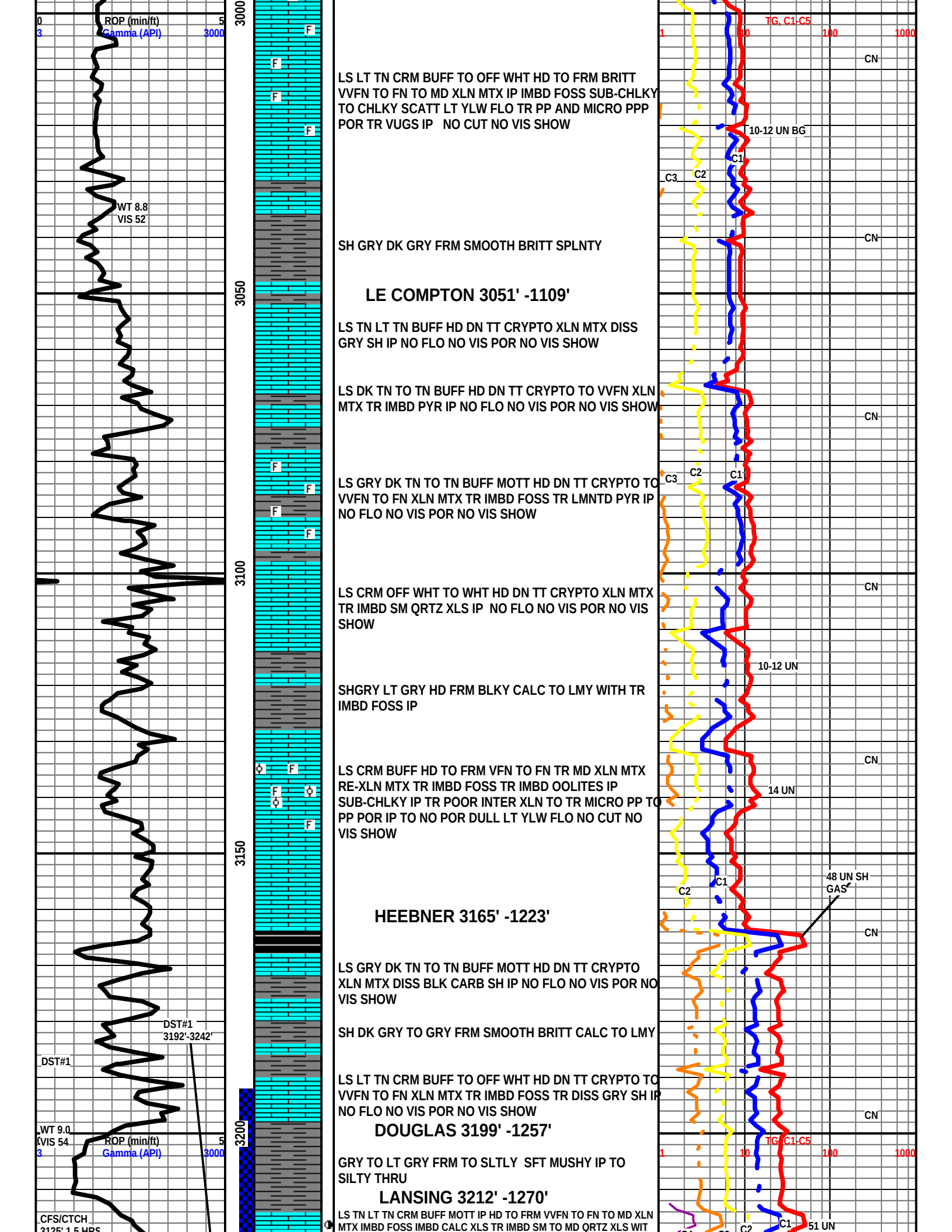

1900
1950
2000
2050
2100
0
ROP (min/ft)
5
3
Gamma (API)
3000
TG, C1-C5
1
10
100
1000
32UN

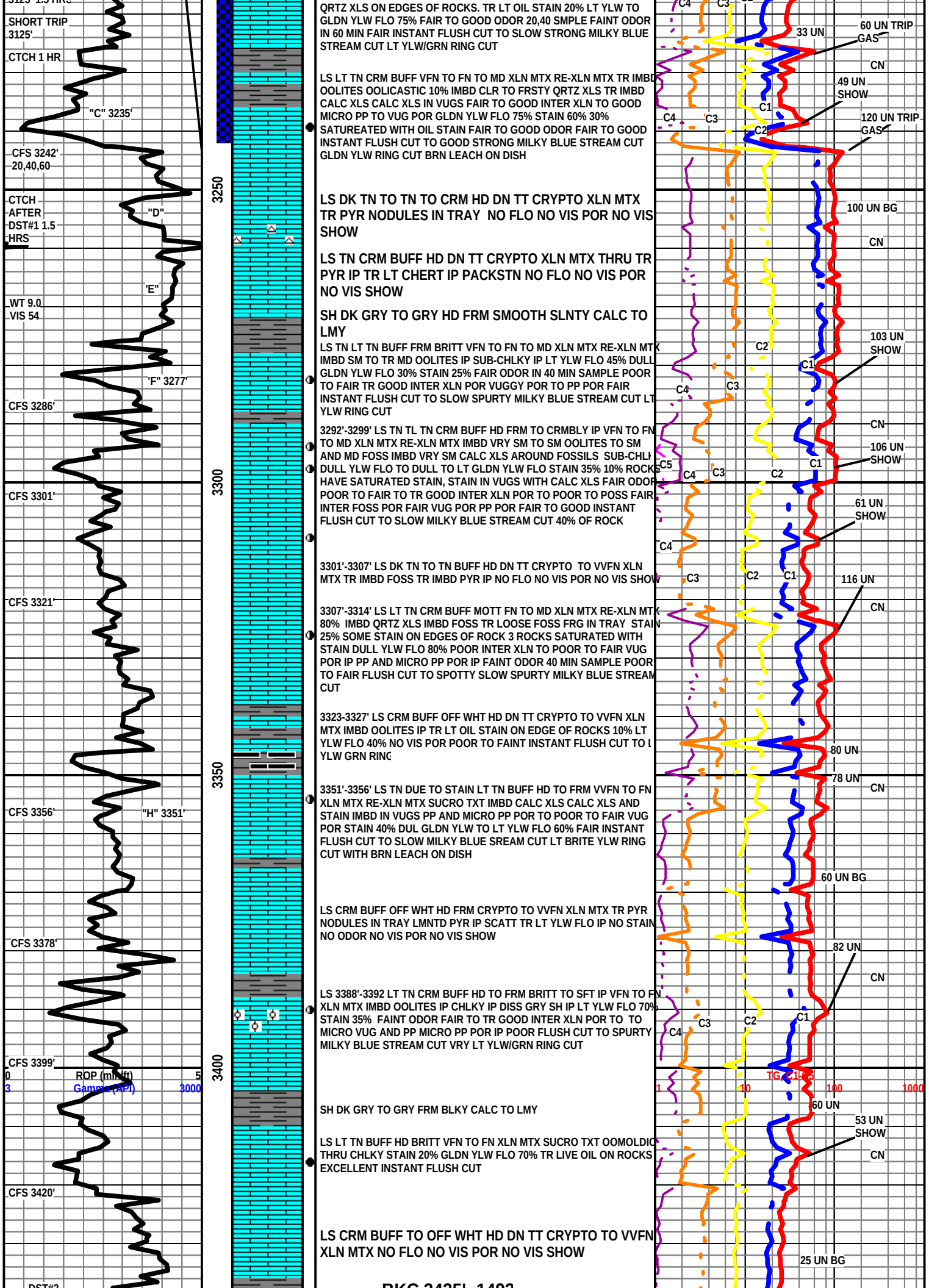

0
ROP (min/ft)
5
3
Gamma (API)
3000
2150
2200
2250
2300
TG, C1-C5
1
10
100
1000

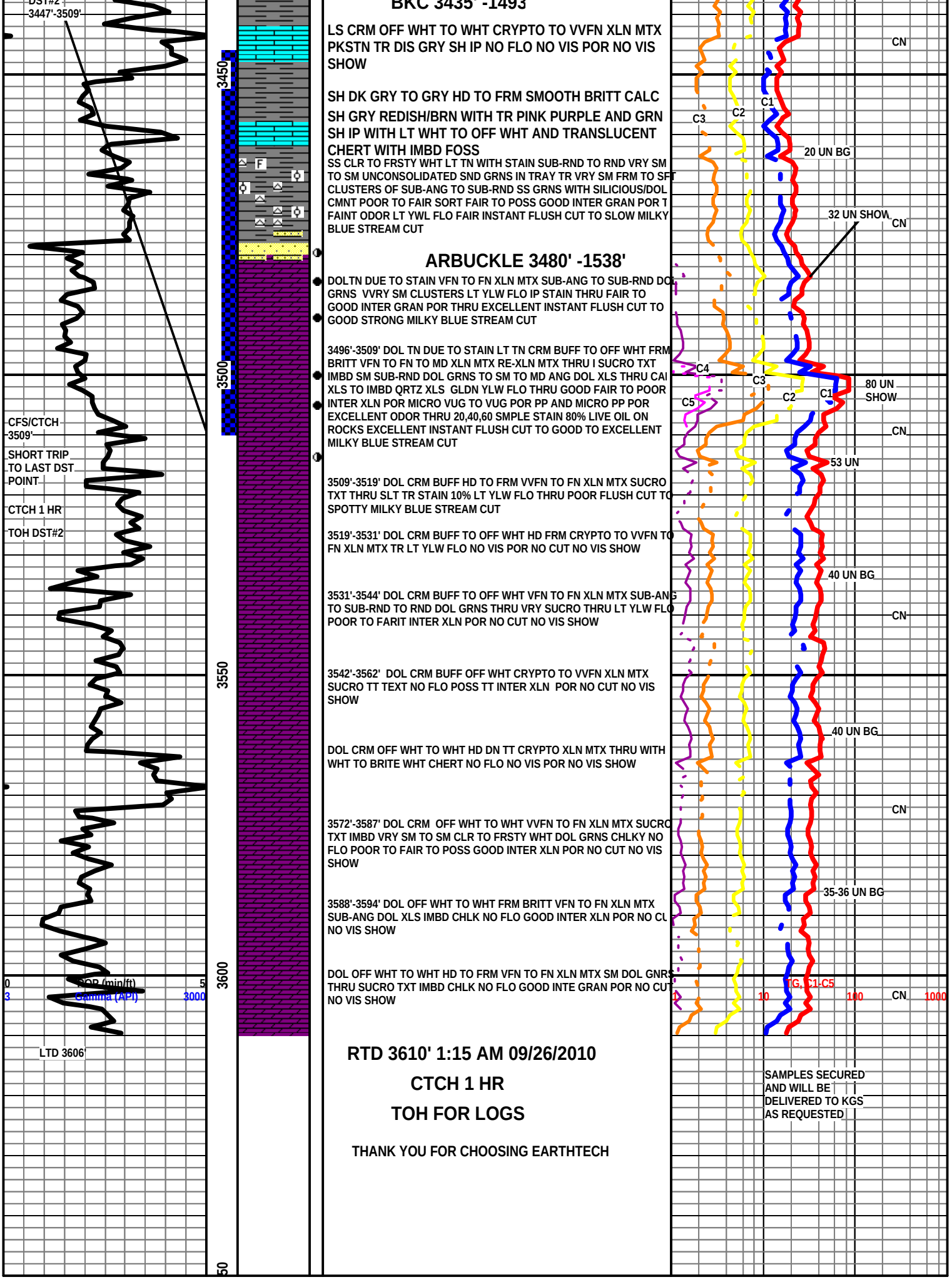

0
ROP (min/ft)
5
3
Gamma (API)
3000
2350
2400
2450
2500
2550
TG, C1-C5
1
10
100
1000


0
ROP (min/ft)
5
3
Gamma (API)
3000
2600
2650
2700
2750
BASE ROOT SHALE 2702' -760'
TG, C1-C5
1
10
100
1000


0
ROP (min/ft)
5
3
Gamma (API)
3000
2800
2850
2900
2950
START ONE MANNED UNIT 09/22/2010
LS TN LT TN BUFF HD TO FRM BRITT VVFN TO FN XLN MTX TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW
SH DK GRY SLTLY FRM TO SFT SMOOTH SPLNTY
LS LT TN CRM BUFF HD DN CRYPTO TO VVFN TO FN XLN MTX NO FLO NO VIS POR NO VIS SHOW
SH GRY FRM BLKY WITH IMBD FOSS IP
LS DK NT TO TN HD DN TT CRYPTO TO VVFN XLN MTX DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW
SH GRY LT GRY LT BRN SFT SILTY THRU
HOWARD 2888' -946'
LS GRY LT GRY TN LT TN BUFF MOTT HD TO FRM BRITT VVFN TO FN XLN MTX VRY SM IMBD FOSS DISS TO IMBD GRY SH IP SCATT TR LT DULL YLW FLO TR POSS INTER XLN POR TO TR VUG POR IP NO CUT NO VIS SHOW
LS GRY DK TN OT TN HD DN TT CRYPTO TO VVFN XLNMTS NO FLO NO VSI POR NO VIS SHOW
SH LT GRY TO LT BRN SFT SMOOTH WITH IMBD FOSS TR PYR NODULES IN TRAY
TOPEKA 2948' -1006'
LS DK TN TO TN HD DN CRYPTO TO VVFN TO FN XLN MTX SUCRO TXT IP DISS GRY BRN SH IP NO FLO NO IS POR NO VIS SHOW
LS LT TN CRM BUFF FRM BRITT VFN TO FN XLN MTX IMBD FOSS SUB-CHLKY NO FLO TR MICRO PP POR TO POSS TT INTER XLN POR NO FLO NO CUT NO VIS SHOW
LS LT TN CRM BUFF TO OFF WHT HD TO FRM BRITT VVFN TO FN TO MD XLN MTX IP IMBD FOSS SUB-CHLKY TO CHLKY SCATT LT YLW FLO TR PP AND MICRO PPP POR IP TO POOR TO POSS FAIR INTER XLN POR NO CUT NO VIS SHOW
F
TG, C1-C5
1
10
100
1000
C1
C2
6 UN BG
5-6 UN BG
CN


0
ROP (min/ft)
5
3
Gamma (API)
3000
WT 8.8
VIS 52
DST#1
3192'-3242'
DST#1
WT 9.0
VIS 54
ROP (min/ft)
5
3
Gamma (API)
3000
CFS/CTCH
3125' 1.5 HRS
3000
3050
3100
3150
3200
LS LT TN CRM BUFF TO OFF WHT HD TO FRM BRITT VVFN TO FN TO MD XLN MTX IP IMBD FOSS SUB-CHLKY TO CHLKY SCATT LT YLW FLO TR PP AND MICRO PPP POR TR VUGS IP NO CUT NO VIS SHOW
SH GRY DK GRY FRM SMOOTH BRITT SPLNTY
LE COMPTON 3051' -1109'
LS TN LT TN BUFF HD DN TT CRYPTO XLN MTX DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW
LS DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD PYR IP NO FLO NO VIS POR NO VIS SHOW
LS GRY DK TN TO TN BUFF MOTT HD DN TT CRYPTO TO VVFN TO FN XLN MTX TR IMBD FOSS TR LMNTD PYR IP NO FLO NO VIS POR NO VIS SHOW
LS CRM OFF WHT TO WHT HD DN TT CRYPTO XLN MTX TR IMBD SM QRTZ XLS IP NO FLO NO VIS POR NO VIS SHOW
SHGRY LT GRY HD FRM BLKY CALC TO LMY WITH TR IMBD FOSS IP
LS CRM BUFF HD TO FRM VFN TO FN TR MD XLN MTX RE-XLN MTX TR IMBD FOSS TR IMBD OOLITES IP SUB-CHLKY IP TR POOR INTER XLN TO TR MICRO PP TO PP POR IP TO NO POR DULL LT YLW FLO NO CUT NO VIS SHOW
HEEBNER 3165' -1223'
LS GRY DK TN TO TN BUFF MOTT HD DN TT CRYPTO XLN MTX DISS BLK CARB SH IP NO FLO NO VIS POR NO VIS SHOW
SH DK GRY TO GRY FRM SMOOTH BRITT CALC TO LMY
LS LT TN CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN TO FN XLN MTX TR IMBD FOSS TR DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW
DOUGLAS 3199' -1257'
GRY TO LT GRY FRM TO SLTLY SFT MUSHY IP TO SILTY THRU
LANSING 3212' -1270'
LS TN LT TN CRM BUFF MOTT IP HD TO FRM VVFN TO FN TO MD XLN MTX IMBD FOSS IMBD CALC XLS TR IMBD SM TO MD QRTZ XLS WIT
TG, C1-C5
1
10
100
1000
CN
10-12 UN BG
C1
C2
C3
CN
C3
C2
C1
CN
10-12 UN
CN
14 UN
C1
C2
48 UN SH GAS
CN
CN
TG, C1-C5
1
10
100
1000
C1
C2
51 UN


SHORT TRIP
3125'
CTCH 1 HR
"C" 3235'
CFS 3242'
20,40,60
CTCH
AFTER
DST#1 1.5
HRS
"D"
"E"
WT 9.0
VIS 54
"F" 3277'
CFS 3286'
CFS 3301'
CFS 3321'
CFS 3356'
"H" 3351'
CFS 3378'
CFS 3399'
CFS 3420'
DST#3
3250
3300
3350
3400
0
ROP (min/ft)
5
3
Gamma (API)
3000
QRTZ XLS ON EDGES OF ROCKS. TR LT OIL STAIN 20% LT YLW TO GLDN YLW FLO 75% FAIR TO GOOD ODOR 20,40 SMPLE FAINT ODOR IN 60 MIN FAIR INSTANT FLUSH CUT TO SLOW STRONG MILKY BLUE STREAM CUT LT YLW/GRN RING CUT
LS LT TN CRM BUFF VFN TO FN TO MD XLN MTX RE-XLN MTX TR IMBD OOLITES OOLICASTIC 10% IMBD CLR TO FRSTY QRTZ XLS TR IMBD CALC XLS CALC XLS IN VUGS FAIR TO GOOD INTER XLN TO GOOD MICRO PP TO VUG POR GLDN YLW FLO 75% STAIN 60% 30% SATUREATED WITH OIL STAIN FAIR TO GOOD ODOR FAIR TO GOOD INSTANT FLUSH CUT TO GOOD STRONG MILKY BLUE STREAM CUT GLDN YLW RING CUT BRN LEACH ON DISH
LS DK TN TO TN TO CRM HD DN TT CRYPTO XLN MTX TR PYR NODULES IN TRAY NO FLO NO VIS POR NO VIS SHOW
LS TN CRM BUFF HD DN TT CRYPTO XLN MTX THRU TR PYR IP TR LT CHERT IP PACKSTN NO FLO NO VIS POR NO VIS SHOW
SH DK GRY TO GRY HD FRM SMOOTH SLNTY CALC TO LMY
LS TN LT TN BUFF FRM BRITT VFN TO FN TO MD XLN MTX RE-XLN MTX IMBD SM TO TR MD OOLITES IP SUB-CHLKY IP LT YLW FLO 45% DULL GLDN YLW FLO 30% STAIN 25% FAIR ODOR IN 40 MIN SAMPLE POOR TO FAIR TR GOOD INTER XLN POR VUGGY POR TO PP POR FAIR INSTANT FLUSH CUT TO SLOW SPURTY MILKY BLUE STREAM CUT LT YLW RING CUT
3292'-3299' LS TN TL TN CRM BUFF HD FRM TO CRMBLY IP VFN TO FN TO MD XLN MTX RE-XLN MTX IMBD VRY SM TO SM OOLITES TO SM AND MD FOSS IMBD VRY SM CALC XLS AROUND FOSSILS SUB-CHLK DULL YLW FLO TO DULL TO LT GLDN YLW FLO STAIN 35% 10% ROCKS HAVE SATURATED STAIN, STAIN IN VUGS WITH CALC XLS FAIR ODOR POOR TO FAIR TO TR GOOD INTER XLN POR TO POOR TO POSS FAIR INTER FOSS POR FAIR VUG POR PP POR FAIR TO GOOD INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CUT 40% OF ROCK
3301'-3307' LS DK TN TO TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS TR IMBD PYR IP NO FLO NO VIS POR NO VIS SHOW
3307'-3314' LS LT TN CRM BUFF MOTT FN TO MD XLN MTX RE-XLN MTX 80% IMBD QRTZ XLS IMBD FOSS TR LOOSE FOSS FRG IN TRAY STAIN 25% SOME STAIN ON EDGES OF ROCK 3 ROCKS SATURATED WITH STAIN DULL YLW FLO 80% POOR INTER XLN TO POOR TO FAIR VUG POR IP PP AND MICRO PP POR IP FAINT ODOR 40 MIN SAMPLE POOR TO FAIR FLUSH CUT TO SPOTTY SLOW SPURTY MILKY BLUE STREAM CUT
3323-3327' LS CRM BUFF OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX IMBD OOLITES IP TR LT OIL STAIN ON EDGE OF ROCKS 10% LT YLW FLO 40% NO VIS POR POOR TO FAINT INSTANT FLUSH CUT TO I YLW GRN RING
3351'-3356' LS TN DUE TO STAIN LT TN BUFF HD TO FRM VVFN TO FN XLN MTX RE-XLN MTX SUCRO TXT IMBD CALC XLS CALC XLS AND STAIN IMBD IN VUGS PP AND MICRO PP POR TO POOR TO FAIR VUG POR STAIN 40% DUL GLDN YLW TO LT YLW FLO 60% FAIR INSTANT FLUSH CUT TO SLOW MILKY BLUE SREAM CUT LT BRITE YLW RING CUT WITH BRN LEACH ON DISH
LS CRM BUFF OFF WHT HD FRM CRYPTO TO VVFN XLN MTX TR PYR NODULES IN TRAY LMNTD PYR IP SCATT TR LT YLW FLO IP NO STAIN NO ODOR NO VIS POR NO VIS SHOW
LS 3388'-3392 LT TN CRM BUFF HD TO FRM BRITT TO SFT IP VFN TO FN XLN MTX IMBD OOLITES IP CHLKY IP DISS GRY SH IP LT YLW FLO 70% STAIN 35% FAINT ODOR FAIR TO TR GOOD INTER XLN POR TO TO MICRO VUG AND PP MICRO PP POR IP POOR FLUSH CUT TO SPURTY MILKY BLUE STREAM CUT VRY LT YLW/GRN RING CUT
SH DK GRY TO GRY FRM BLKY CALC TO LMY
LS LT TN BUFF HD BRITT VFN TO FN XLN MTX SUCRO TXT OOMOLDIC THRU CHLKY STAIN 20% GLDN YLW FLO 70% TR LIVE OIL ON ROCKS EXCELLENT INSTANT FLUSH CUT
LS CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX NO FLO NO VIS POR NO VIS SHOW
PKR 3425' 1493
C4
C3
C2
C1
C5
33 UN
60 UN TRIP GAS
CN
49 UN SHOW
120 UN TRIP GAS
100 UN BG
103 UN SHOW
106 UN SHOW
61 UN SHOW
116 UN
80 UN
78 UN
60 UN BG
82 UN
TG
C1-C5
1
10
100
1000
60 UN
53 UN SHOW
25 UN BG


DST#2
3447'-3509'
CFS/CTCH
3509'
SHORT TRIP
TO LAST DST
POINT
CTCH 1 HR
TOH DST#2
ROP (min/ft)
0
5
Gamma (API)
3
3000
LTD 3606'
3450
3500
3550
3600
BKC 3435' -1493
LS CRM OFF WHT TO WHT CRYPTO TO VVFN XLN MTX PKSTN TR DIS GRY SH IP NO FLO NO VIS POR NO VIS SHOW
SH DK GRY TO GRY HD TO FRM SMOOTH BRITT CALC
SH GRY REDISH/BRN WITH TR PINK PURPLE AND GRN SH IP WITH LT WHT TO OFF WHT AND TRANSLUCENT CHERT WITH IMBD FOSS
SS CLR TO FRSTY WHT LT TN WITH STAIN SUB-RND TO RND VRY SM TO SM UNCONSOLIDATED SND GRNS IN TRAY TR VRY SM FRM TO SFT CLUSTERS OF SUB-ANG TO SUB-RND SS GRNS WITH SILICIOUS/DOL CMNT POOR TO FAIR SORT FAIR TO POSS GOOD INTER GRAN POR T FAINT ODOR LT YWL FLO FAIR INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CUT
ARBUCKLE 3480' -1538'
DOLTN DUE TO STAIN VFN TO FN XLN MTX SUB-ANG TO SUB-RND DOL GRNS VVRY SM CLUSTERS LT YLW FLO IP STAIN THRU FAIR TO GOOD INTER GRAN POR THRU EXCELLENT INSTANT FLUSH CUT TO GOOD STRONG MILKY BLUE STREAM CUT
3496'-3509' DOL TN DUE TO STAIN LT TN CRM BUFF TO OFF WHT FRM BRITT VFN TO FN TO MD XLN MTX RE-XLN MTX THRU I SUCRO TXT IMBD SM SUB-RND DOL GRNS TO SM TO MD ANG DOL XLS THRU CAI XLS TO IMBD QRTZ XLS GLDN YLW FLO THRU GOOD FAIR TO POOR INTER XLN POR MICRO VUG TO VUG POR PP AND MICRO PP POR EXCELLENT ODOR THRU 20,40,60 SMPLE STAIN 80% LIVE OIL ON ROCKS EXCELLENT INSTANT FLUSH CUT TO GOOD TO EXCELLENT MILKY BLUE STREAM CUT
3509'-3519' DOL CRM BUFF HD TO FRM VVFN TO FN XLN MTX SUCRO TXT THRU SLT TR STAIN 10% LT YLW FLO THRU POOR FLUSH CUT TO SPOTTY MILKY BLUE STREAM CUT
3519'-3531' DOL CRM BUFF TO OFF WHT HD FRM CRYPTO TO VVFN TO FN XLN MTX TR LT YLW FLO NO VIS POR NO CUT NO VIS SHOW
3531'-3544' DOL CRM BUFF TO OFF WHT VFN TO FN XLN MTX SUB-ANG TO SUB-RND TO RND DOL GRNS THRU VRY SUCRO THRU LT YLW FLO POOR TO FARIT INTER XLN POR NO CUT NO VIS SHOW
3542'-3562' DOL CRM BUFF OFF WHT CRYPTO TO VVFN XLN MTX SUCRO TT TEXT NO FLO POSS TT INTER XLN POR NO CUT NO VIS SHOW
DOL CRM OFF WHT TO WHT HD DN TT CRYPTO XLN MTX THRU WITH WHT TO BRITE WHT CHERT NO FLO NO VIS POR NO VIS SHOW
3572'-3587' DOL CRM OFF WHT TO WHT VVFN TO FN XLN MTX SUCRO TXT IMBD VRY SM TO SM CLR TO FRSTY WHT DOL GRNS CHLKY NO FLO POOR TO FAIR TO POSS GOOD INTER XLN POR NO CUT NO VIS SHOW
3588'-3594' DOL OFF WHT TO WHT FRM BRITT VFN TO FN XLN MTX SUB-ANG DOL XLS IMBD CHLK NO FLO GOOD INTER XLN POR NO CU NO VIS SHOW
DOL OFF WHT TO WHT HD TO FRM VFN TO FN XLN MTX SM DOL GNRS THRU SUCRO TXT IMBD CHLK NO FLO GOOD INTE GRAN POR NO CUT NO VIS SHOW
RTD 3610' 1:15 AM 09/26/2010
CTCH 1 HR
TOH FOR LOGS
THANK YOU FOR CHOOSING EARTHTECH
C1
C2
C3
C4
C5
20 UN BG
32 UN SHOW
80 UN SHOW
53 UN
40 UN BG
40 UN BG
35-36 UN BG
CN
TG, C1-C5
1
10
100
1000
SAMPLES SECURED AND WILL BE DELIVERED TO KGS AS REQUESTED