



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

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: _____



1046236

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	STOS & STOS 1-19
Doc ID	1046236

All Electric Logs Run

COMPACT PHOTO DENSIT COMPENSATED NEUTRON DENSITY LOG
ARRAY INDUCTION SHALLOW FOCUSSED ELECTRIC LOG
COMPENSATED SONIC W/ INTEGRATED TRANSIT TIMES LOG
MICRO-RESISTIVITY LOG
SECTOR BOND/ GAMMA RAY CCL LOG



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

October 29, 2010

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

Re: ACO1
API 15-009-25436-00-00
STOS & STOS 1-19
NW/4 Sec.19-17S-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.

Respectfully,
CLAYTON CAMOZZI

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. 4161

Date	7-4-10	Sec.	19	Twp.	17	Range	15	County	Barton	State	Ks	On Location		Finish	8:30 AM
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Lease	Stos + Stos	Well No.	1-19	Location	OTIS 1 E 13 UN
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Contractor	Val Drly Rigs	Owner	To Quality Oilwell Cementing, Inc.
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Type Job	Long Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
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Hole Size	12 1/4	T.D.	1114	Charge To	Sam Gary Jr & Associates
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Csg.	8 5/8	Depth	1113	Street	
------	-------	-------	------	--------	--

Tbg. Size	8	Depth		City		State	
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Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
------	--	-------	--	--	--	--

Cement Left in Csg.	42'	Shoe Joint		Cement Amount Ordered	400 class A 3% CC 2% gel
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Meas Line	234	Displace	68.24	1/4 flow seal per blk	
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EQUIPMENT

Pumptrk	5	No.	Cementor	Dave 4	Common
---------	---	-----	----------	--------	--------

Bulktrk	13	No.	Driver	Jason 4	Poz. Mix
---------	----	-----	--------	---------	----------

Bulktrk		No.	Driver		Gel.	8
---------	--	-----	--------	--	------	---

JOB SERVICES & REMARKS

Remarks:	Hulls
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Rat Hole	Salt
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Mouse Hole	Flowseal 100#
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Centralizers	Kol-Seal
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Baskets	Mud CLR 48
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D/V or Port Collar	CFL-117 or CD110 CAF 38
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Surface Ran to TD Cir	Sand
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For 15 min pumped 10 BBL	Handling 422
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H2O In front of cement	Mileage
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Mixed 400#	FLOAT EQUIPMENT
------------	------------------------

	Guide Shoe
--	------------

	Centralizer 3
--	---------------

	Baskets 3
--	-----------

	AFU Inserts 1 Baffle plate
--	----------------------------

	Float Shoe
--	------------

	Latch Down
--	------------

Thanks

	Pumptrk Charge Long Surface
--	-----------------------------

	Mileage 30
--	------------

		Tax
--	--	-----

		Discount
--	--	----------

		Total Charge
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X Signature *Randy D. Marks*



PAGE 1 of 1	CUST NO 1003682	INVOICE DATE 07/13/2010
INVOICE NUMBER 1718 - 90358958		

Pratt (620) 672-1201
 B SAMUEL GARY JR. & ASSOCIATES
 I PO Box: 448
 L RUSSELL
 L KS US 67665
 T
 O ATTN:

J LEASE NAME Stos & Stos 1-19
 O LOCATION
 B COUNTY Barton
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40205150	27463		Net - 30 days	08/12/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 07/12/2010 to 07/12/2010				
0040205150				
171801991A Cement-New Well Casing/Pi 07/12/2010 CNW-5 1/2" Longstring				
60/40 POZ	75.00	EA	7.56	566.96 T
50/50 POZ	125.00	EA	6.93	866.20 T
Cello-flake	31.00	EA	2.33	72.26 T
Calcium Chloride	210.00	EA	0.66	138.91 T
Cal-Set	625.00	EA	0.47	295.29 T
FLA-322	104.00	EA	4.72	491.37 T
Cement Gel	210.00	EA	0.16	33.07 T
Gilsonite	1,000.00	EA	0.42	422.07 T
CS-1L, KCl Substitute	4.00	EA	22.05	88.19 T
Super Flush II	500.00	EA	0.96	481.92 T
Latch Down Plug & Baffle	1.00	EA	251.98	251.98
Auto Fill Float Shoe	1.00	EA	226.79	226.79
Turbolizer	8.00	EA	69.30	554.37
Heavy Equipment Mileage	170.00	MI	4.41	749.65
Proppant & Bulk Delivery Charges	723.00	MI	1.01	728.74
Blending & Mixing Service Charge	200.00	MI	0.88	176.39
Unit Mileage Charge-Pickups, Vans & Cars	85.00	HR	2.68	227.57
Depth Charge; 3001'-4000'	1.00	HR	1,360.73	1,360.73
Casing Swivel Rental	1.00	EA	125.99	125.99
Plug Container Utilization Charge	1.00	EA	157.49	157.49
Service Supervisor	1.00	HR	110.24	110.24

DRLG COMP W/O LOE

AFE #

ACCT # 8200.135

APPROVED BY [Signature]

JUL 21 2010

SAMUEL GARY JR.

PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

BASIC ENERGY SERVICES, LP
 PO BOX 841903
 DALLAS, TX 75284-1903

BASIC ENERGY SERVICES, LP
 PO BOX 10460
 MIDLAND, TX 79702

SUB TOTAL

8,126.18

TAX

252.31

INVOICE TOTAL

8,378.49



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 1991 A

DATE _____ TICKET NO. _____

DATE OF JOB: 7-12-10 DISTRICT: KANSAS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER: Samuel Gary, JR & ASSOC. INC.		LEASE: Stos - Stos 1-19 WELL NO.:							
ADDRESS:		COUNTY: Barton 19-17-15 STATE: KANSAS							
CITY: STATE:		SERVICE CREW: A. Worth, J. Anthony, M. McBr...							
AUTHORIZED BY:		JOB TYPE: s/2 L.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
28443 P.U.	1						7-12-10	PM	9:30
27463 RT	1						7-12-10	AM	1:00
19826-19860	1						7-12-10	AM	6:30
							7-12-10	AM	7:30
							7-12-10	AM	8:30
						MILES FROM STATION TO WELL	2.5 mi. 100		

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
CP102	60/40 P02		75 SK		\$ 900.00
CP104	50/50 P02		125 SK		\$ 1325.00
CC102	cell flake		31-16		\$ 114.70
CC109	calcium chloride		210-14		\$ 220.50
CC113	CAI set		625-16		\$ 468.25
CC129	FIA-322		104-16		\$ 780.00
CC200	cement Gel		310-16		\$ 52.50
CC201	G. Isomite		1000-16		\$ 670.00
CF607	Latch down Plug + Baffle - s/2 Blue		1-en		\$ 400.00
CF1751	Auto FILL Fibrot Skene s/2 Blue		1-en		\$ 360.00
CF1651	Turbolizer s/2 Blue		2-en		\$ 860.00
C704	CS-16 RCL Sub		4-901		\$ 140.00
CC155	Super Flush #		500-901		\$ 765.00

SUB TOTAL

CHEMICAL / ACID DATA:

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

TOTAL

16

SERVICE REPRESENTATIVE: Allen & Worth THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer SAMUEL GARY JR. VASSC		Lease No. 706	Date 7-12-10		
Lease Stos + Stos		Well # 1-19			
Field Order # 17181991A	Station Pratt	Casing 5 1/2"	Depth 3772	County Darton	State KS
Type Job 5 1/2" Long String	Formation Carbon	Legal Description 19-17-10			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2"		12 Bbl		Super Flush II				
Depth 3772	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 87/4001	Volume	From	To	Pad	Min		10 Min.	
Max Press 1300	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection P.C.	Annulus Vol.	From	To	Flush	HHP Used		Annulus Pressure	
Plug Depth 3750	Packer Depth	From	To	Disp. 2% KCL	Gas Volume		Total Load	

Customer Representative Kathy Scadum	Station Manager Scotty	Treater Allen F. Worth
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Service Units	26443	27463	19826	19860					
Driver Names	Keith Anthony	Mike McGraw							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00 pm					on loc. Discuss Safety, Setup, Plan Job
					Rig Laying down Drill Pipe
					out of Hole, Lay down Kelly Rig up
					To Run 5 1/2" csg. 15.5 # Shoe Jt. @ 2702
					w/ Float Shoe, + L.O. Baffle in collar
3:45					Start csg. cent. 1-3-5-7-9-11-13-15
5:45					Tag Bottom @ 3773 Pickup 3772
					circ + Rotate
6:45	200#		12	5	Pump 12 Bbls Super Flush II
			3	5	Pump 3 Bbls H ₂ O
			9	6	mix + Pump 25 SKs 60/40 SCAMING @ 12
			34	6	mix + Pump 125 SKs 50/50 P02 @ 13.8
					Finish mix washout Pump Line
7:00				7	Drop L.O. Plug + Set act Disp.
	300#			5	caught lift PSI @ 62 Bbls out
7:15	1500#		89 1/4	2 1/2	Plug down
	0#				Release PSI 0#
					Plug R.H. w/ 30 SKs 60/40 P02
					Plug mid w/ 70 SKs 60/40 P02
					washup + Backup Equip.
8:30					Job complete.



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

Well Name: STOS-STOS 1-19
Location: SEC 19-17S-15W , Barton co. Kansas
License Number: API 15-009-25436-0000
Spud Date: 07/02/2010
Surface Coordinates: 830 FNL, 270 FWL
Region: Wildcat
Drilling Completed: 07/10/10

Bottom Hole
Coordinates:
Ground Elevation (ft): 2017" K.B. Elevation (ft): 2027'
Logged Interval (ft): 1430 To: 3775' Total Depth (ft): 3775'
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: 620-655-8252

Circulating Report

START UNMANNED LOGGING UNIT 07/05/2010
START 24 HR MANNED UNIT 07/07/10
CFS 3340' 20,40,60
CTCH 1 HR SHORT TRIP
CTCH 1 HR AFTER SHORT TRIP
CFS 3355' 20,40,60
CFS 3372' 20,40,60
CFS 3418' 20,40,60
CFS 3434' 20,40,60, TOTAL 1.5 HRS
CFS 3472' 20,40,60
CFS 3604' 20,40,60
CFS 3612 20,40,60,
SHORT TRIP 5 STANDS CTCH 1 HR
TOH DST#2
TIH AFTER DST#2 CTCH 1 HR
CFS 3375' (TD) TOTAL 1.5 HRS
TOH FOR LOGS



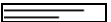

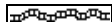



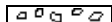



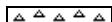



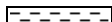
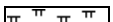










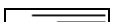

DST's Report

DST#1 3384'-3434' 50' ANCHOR
 IFP: SURFACE BLOW THRU OUT
 ISIP: NO BLOW
 FFP: NO BLOW
 FSIP: NO BLOW
 RECOVERY 10' MUD
 BHT: 112 DEG
 CLORIDES: 0
 IH: 1616
 FIF: 17
 FFF: 19
 ISI: 1075
 SIF: 20
 SFF: 21
 FSI: 1016
 FH: 1606
 TIMES 15,60,10,60

DST's Report

DST#2 3550'-3612'
 ANCHOR: 62'
 IFP WEAK TO STRONG IN 7 MIN
 ISIP NO BLOW BACK
 FFP WEAK TO STRONG IN 15 MIN
 FSIP NO BLOW BACK
 RECOVERY 30' CO, 100' OCM, 186' SOCMW, 248' WATER
 TOTAL RECOVERY 564' BHT 116 DEG GRAVITY 31 CLORIDES 36,000
 IH 1725
 FIF 38
 FFF 79
 ISI 1137
 SIF 95
 SFF 243
 FSI 1138
 FH 1716
 TIMES 10,60,45,135

ROCK TYPES

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

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- 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

- 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

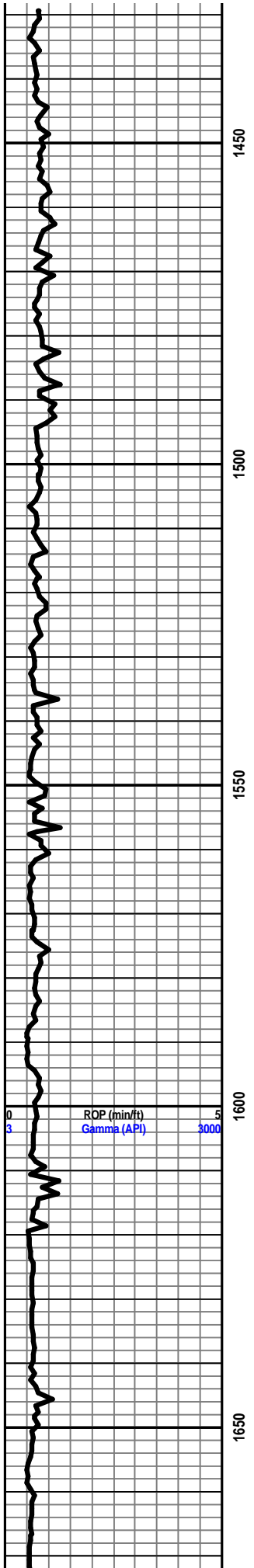
INTERVALS

- Core
- Dst
- Dst

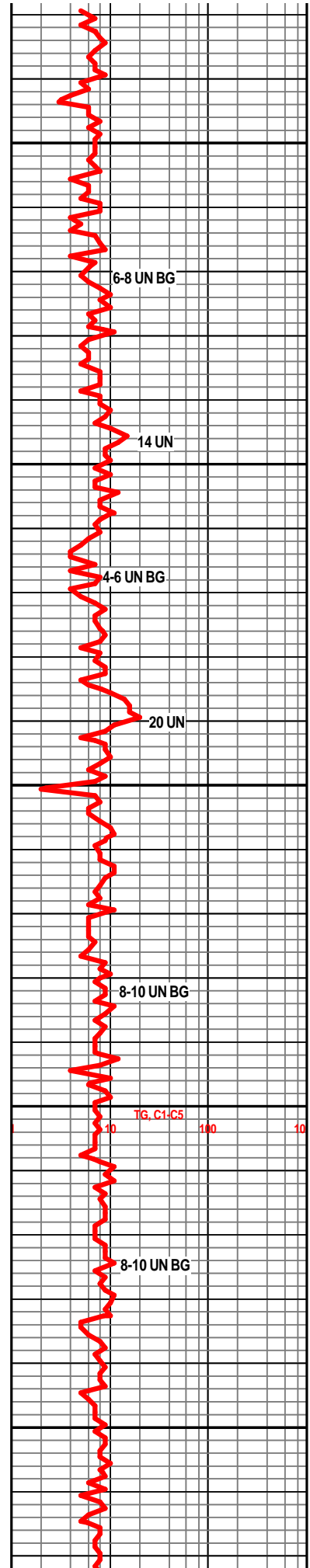
EVENTS

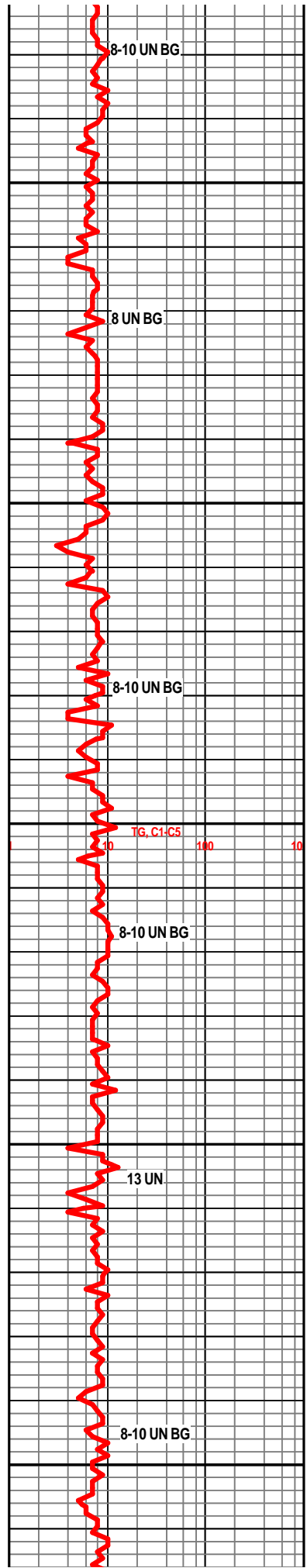
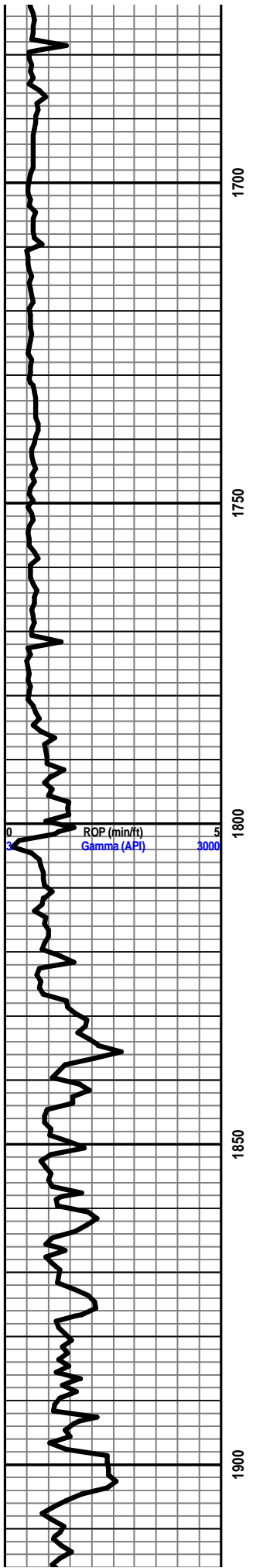
- Rft
- Sidewall

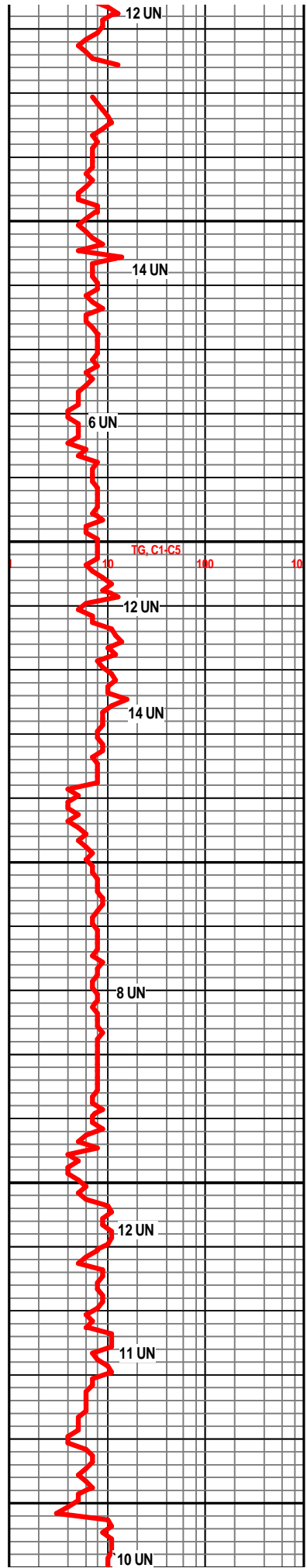
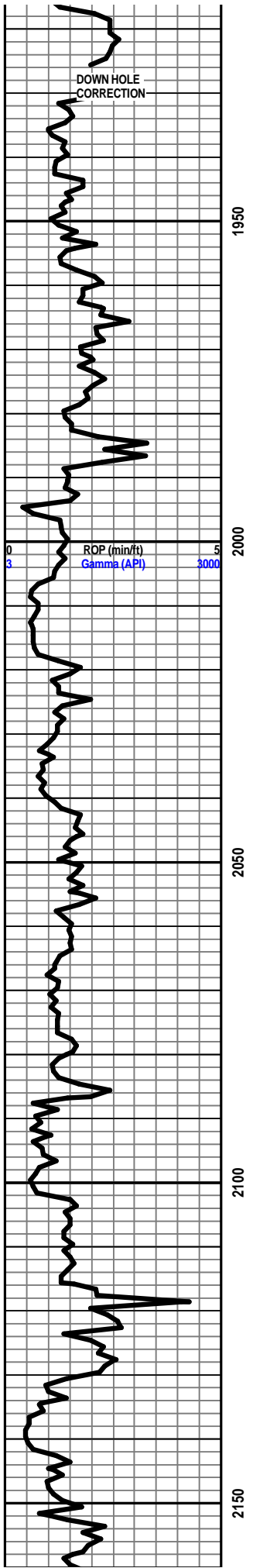
Curve Track 1 ROP (min/ft) ——— Gamma (API) - - - -		Depth	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5
						TG (units) ——— C1 (units) ——— C2 (units) ——— C3 (units) ——— C4 (units) ——— C5 (units) ———
0 ROP (min/ft) 5 3 Gamma (API) 3000 DRILLING CONTRACTOR VAL-6		13				1 DRILLING CONTRACTOR VAL-6 SURVEY'S 3434 3/4 DEG STRAP AT 3340' .91 SHORT TO THE BOARD
0 ROP (min/ft) 5 3 Gamma (API) 3000 SURFACE CASING 8 5/8 SET @ 1112'		1400				10 TG, C1-C5 100 10

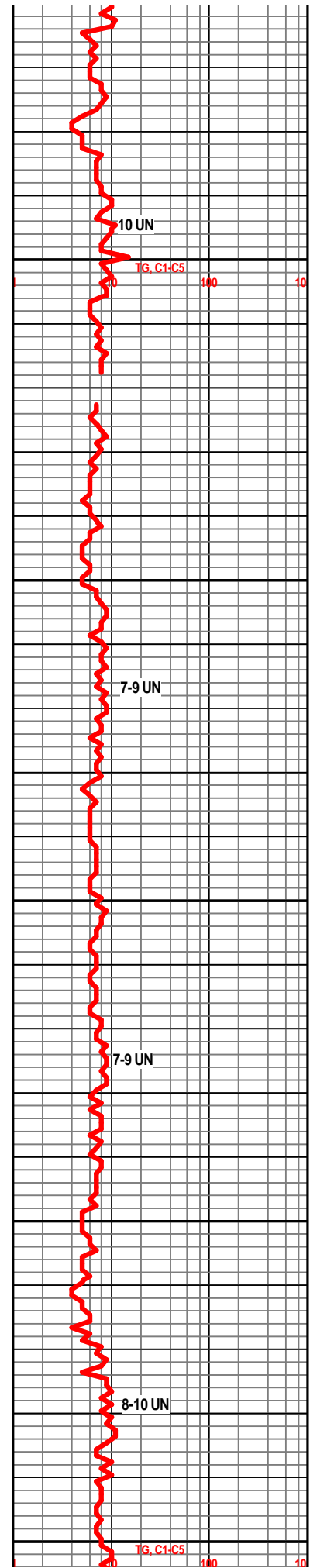
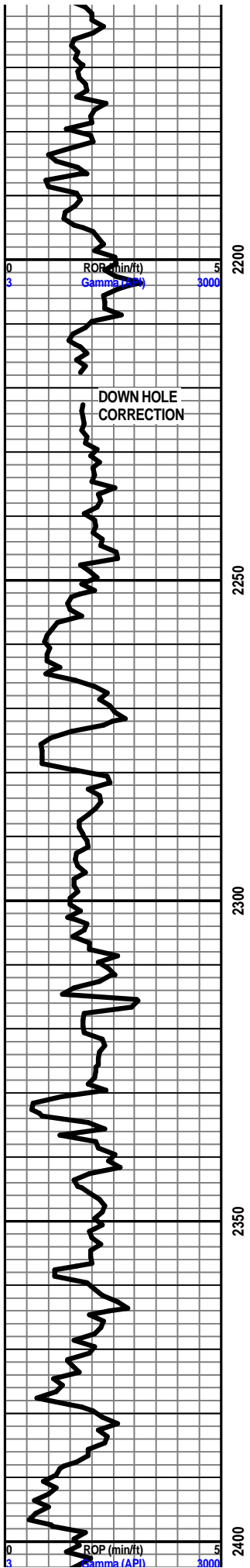


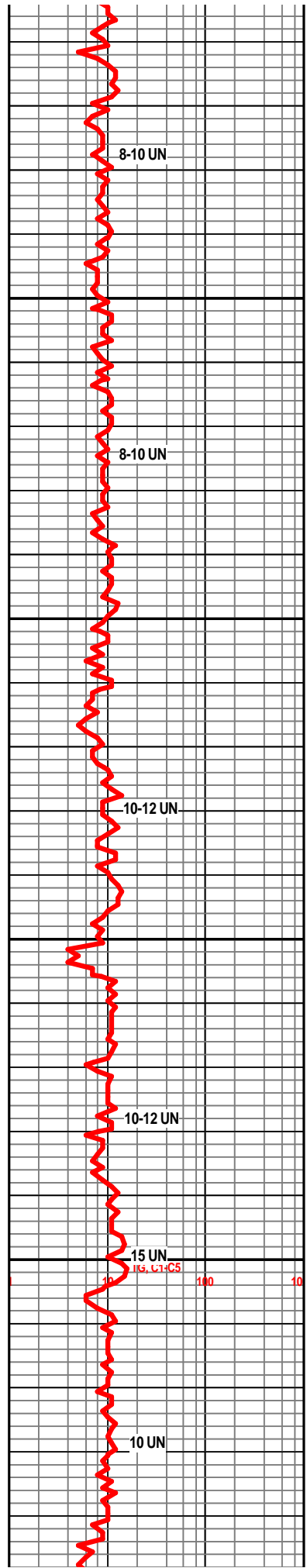
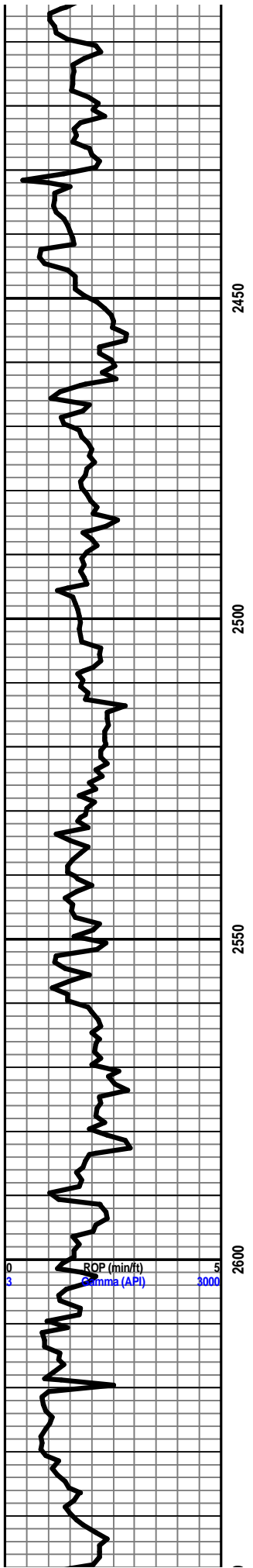
START UNMANNED LOGGING UNIT
07/05/10

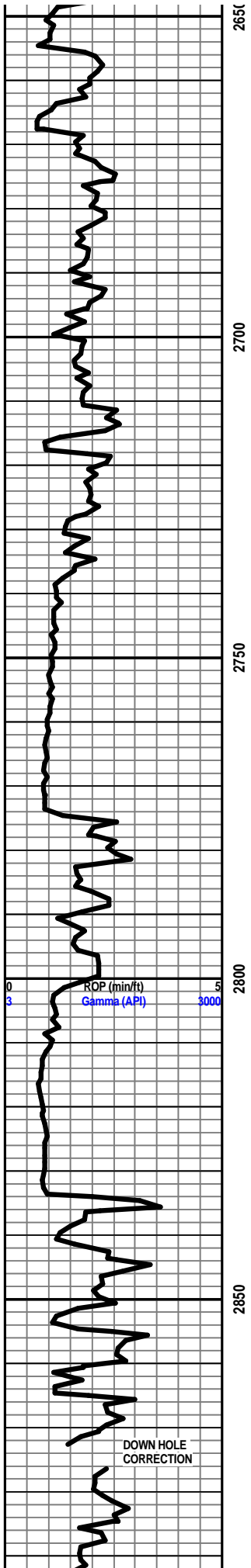








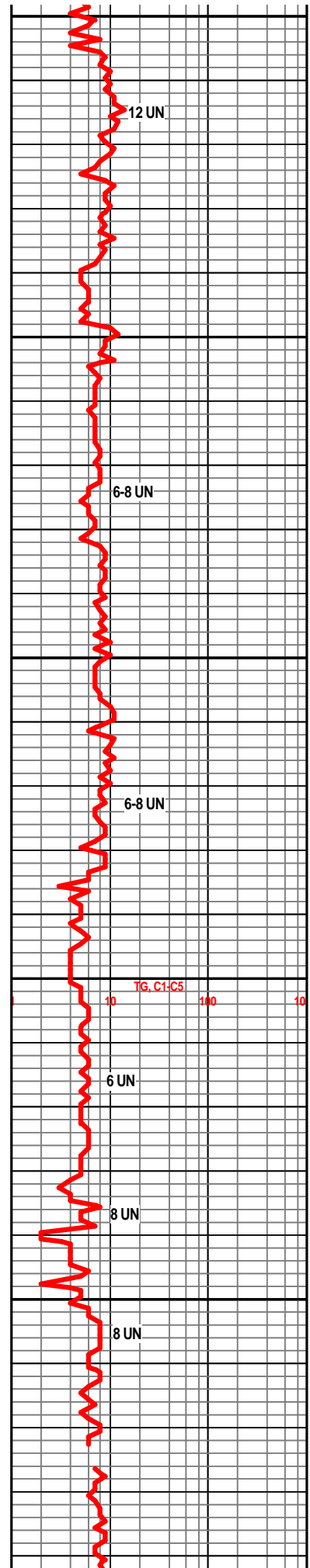


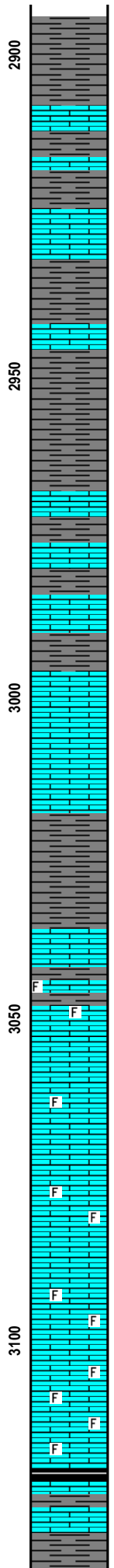
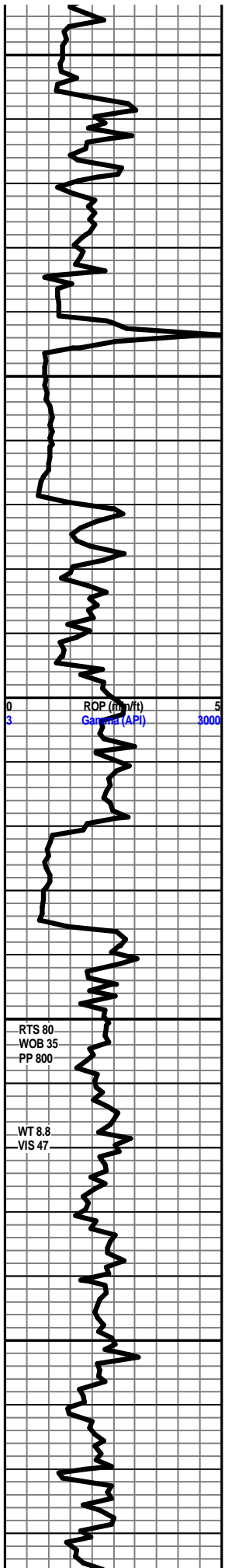


WABAUNSEE 2648' -621'

GRAND HAVEN 2718' -691'

BASE ROOT SHALE 2774' -747'





START 24 HR MANNED UNIT 07/07/10
 SH GRY SLTLY FRM SF SILTY

LS TN LT GRY HD DN BRITT VVFN TO FN XLN MTX NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY SMOOTH SPLNTY FRM

LS GRY DK TN TO TN HD DN TT CRYPTO TO VVFN XLN MTX DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY SMOOTH SPLNTY FRM

LS DK GRY TO GRY HD DN TT CRYPTO XLN MTX NO FLO NO VIS POR NO VIS SHOW

SH LT GRY TO GRY SFT GUMMY TO SILTY

HOWARD 2969' -942'

LS GRY TN LT TN HD DN VVFN TO FN XLN MTX TR FOSS FRG IP DISS GRY SH IP SCATT DULL YLW FLO IP NO VIS POR NO VIS SHOW

SH LT GRY SFT SILTY THRU

LS GRY LT GRY DK TN TO BRN HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS NO FLO NO VIS POR NO VIS SHOW

SH GRY LT GRY SFT GUMMY

TOPEKA 3036' -1009'

LS DK TN TO TN TO GRY MOTT HD DN TT VFN TO FN XLN MTX TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

LS LT GRY TN LT TN HD DN BRITT VVFN TO FN XLN MTX SUB-CHLKY IP TR SCATT DULL YLW FLO NO VIS POR NO VIS SHOW

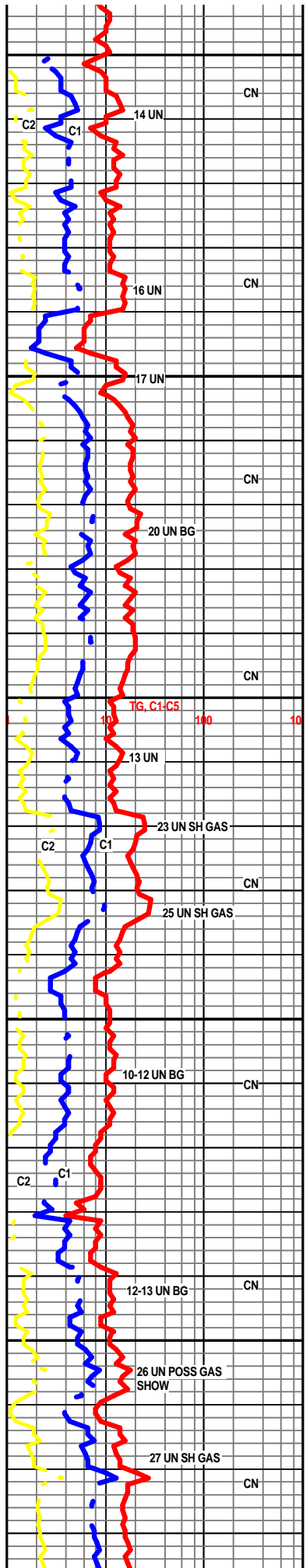
LS GRY TN BUFF MOTT VVFN TO FN XLN MTX RE-XLN MTX IP TR IMBD QRTZ XLS IP TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

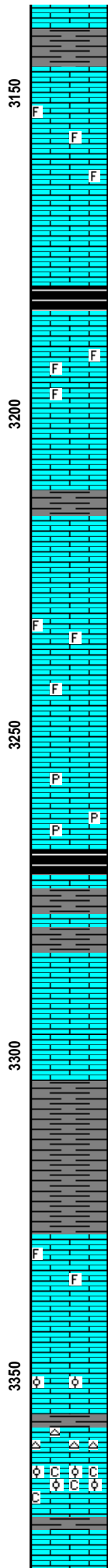
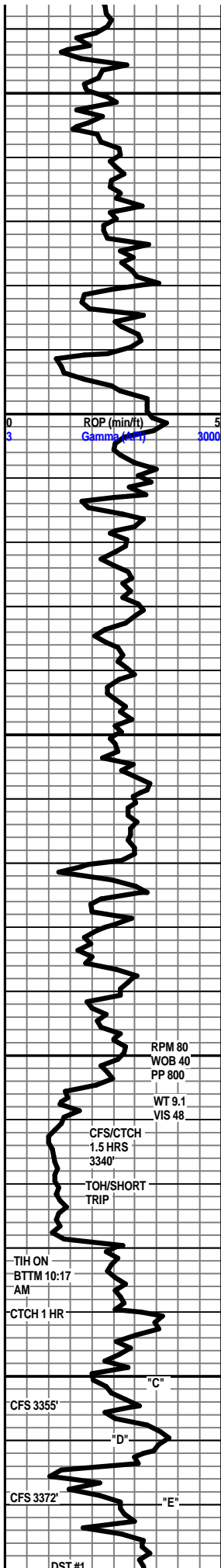
LS DK GRY TO GRY BRN TN HD DN BRITT VVFN TO FN XLN MTX TR IMBD FOSS FRG IP SUB-CHLKY IP LT YLW FLO TR POOR INTERXLN POR TO NO POR NO CUT NO VIS SHOW

LS LT GRY TN LT TN BUFF MOTT HD TO FRM BRITT IMBD FOSS SUB-CHLKY TR SCATT DULL YLW FLO TR IMBD LS GRNS IP POOR INTER XLN TO TR VUG POR NO CUT NO VIS SHOW

SH BLK CARB

SH DK GRY TO GRY FRM BRITT SMOOTH CALC TO LMY





Le COMPTON 3144' -1117'

LS TN LT TN CRM BUFF HD TO FRM VFN TO FN XLN MTX RE-XLN MTX TR IMBD FOSS TR IMBD CALC XLS IP NO FLO POOR INTER XLN TO TR FAIR INTER XLN POR NO STAIN NO CUT NO VIS SHOW

LS GRY LT GRY TN BUFF MOTT IP HD DN BRITT VVFN TO FN XLN MTX SUCRO TXT IP NO FLO NO VIS POR NO CUT NO VIS SHOW

SH BLK CARB

LS LT TN CRM BUFF FRM TO SFT FN XLN MTX TR IMBD FOSS CHLKY THRU SCATT LT YLW FLO POOR INTERXLN TO TR VUG POR TR MICRO PP POR IP NO STAIN NO ODOR NO CUT NO VIS SHOW

3210' @ 00:01 AM 07/08/2010

SH LT GRY FRM SMOOTH SPLNTY

LS TN DK TN BUFF HD DN BRITT CRYPTO TO VVFN TO FN XLN MTX NO FLO NO VIS POR NO VIS SHOW

LS CRM BUFF HD FRM BRITT VVFN TO FN XLN MTX RE-XLN MTX IP TR IMBD FOSS IP SUCRO TXT IP SUB-CHLKY IP DULL YLW FLO IP TR MICRO PP POR IP TO NO POR NO CUT NO VIS SHOW

LS GRY DK BRN DK TN TO TN HD DN TT CRYPTO XLN MTX TR PYR NODULES IN TRAY NO FLO NO VIS POR NO VIS SHOW

SH BLK CARB

HEEBNER 3269' -1242'

SH GRY LT GRY TO BRN FRM SMOOTH BRITT GRNY TXT LMY

LS DK GRY TO GRY HD DN TT CRYPTO XLN MTX NO FLO NO VIS POR NO VIS SHOW

DOUGLAS 3303' -1276'

SH GRY LT GRY SLTLY FRM SMOOTH SFT SILTY

LANSING 3329' -1302'

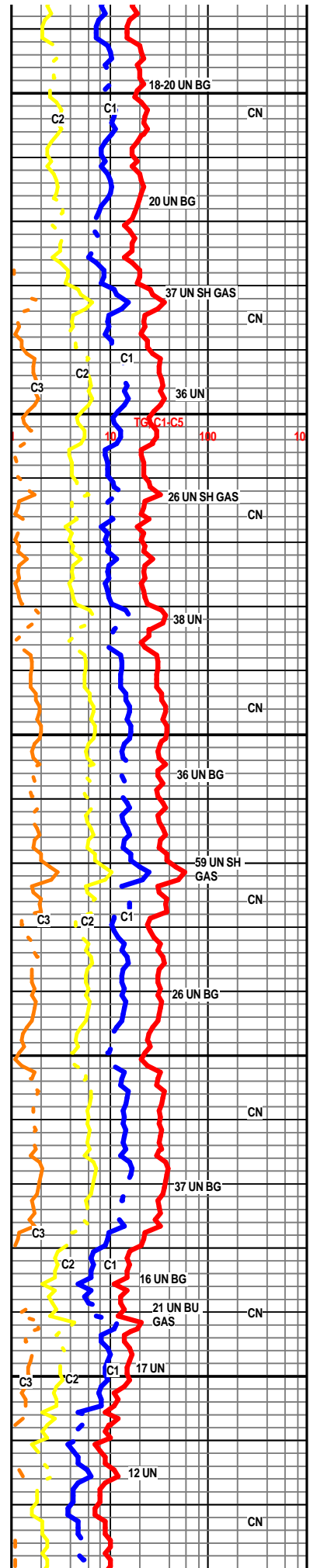
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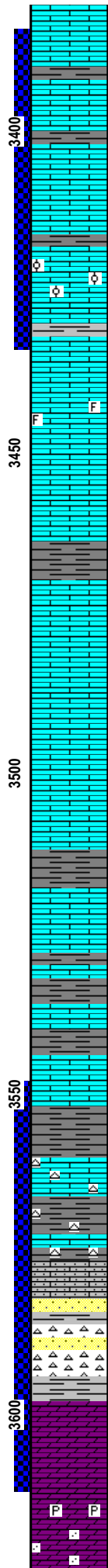
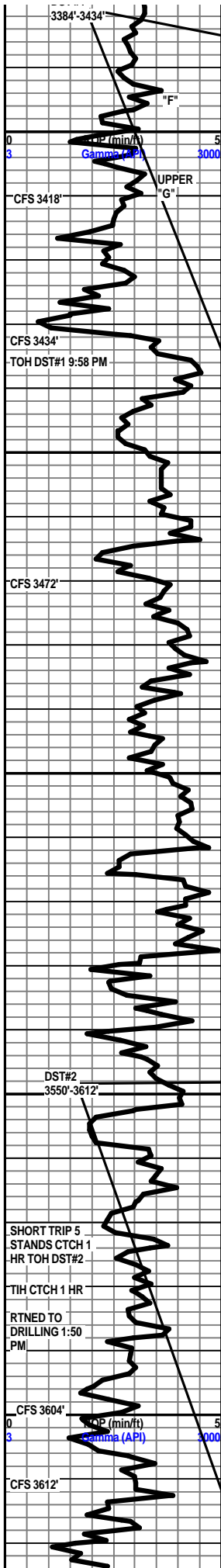
LANSING "C" 3346' -1319'

LS LT TN CRM BUFF TO OFF WHT HD TO FRM VVFN TO FN XLN MTX IMBD OOLITES TR VFN IMBD CLEAR QRTZ XLS IP TR OOLITES IMBD PIECE OF CHLK LT YLW FLO 60% TR DEAD OIL 40% POOR INTERXLN TR MICRO PP FAIR TO GOOD VUG POR WITH DEAD OIL IN VUGS NO ODOR INSTANT FLUSH CUT TO SPURTY MILKY BLUE STREAMI CUT

3364'-3372' LS LT TN CRM BUFF TO OFF WHT FRM BRITT VVFN TO FN XLN MTX RE-XLN MTX IMBD OOLITES CHLKY THRU TR PYR NODULES IN TRAY LT YLW FLO 70% NO ODOR NO STAIN OMMOLDIC THRU FAIR INTERXLN TO VUG POR NO CUT NO VIS SHOW

LS TN LT TN BUFF HD DN TT CRYPTO XLN MTX DULL YLW FLO IP NO VIS POR NO VIS SHOW





LS LT TN CRM BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS FRG IP TR LMNTD PYR IP SCATT TR LT YLW FLO IP NO VIS POR NO VIS SHOW

LANSING "F" 3400' -1373'

3391'-3399'LS TN LT TN CRM BUFF MOTT HD DN BRITT VVFN TO FN TR MD XLN MTX TR IMBD CALC XLS IP TR IMBD OOLITES IP ONLY SCATT DULL YLW FLO POSS POOR INTERXLN POR IP NO ODOR NO STAIN NO CUT NO VIS SHOW

3403'-3414' LS TN LT TN CRM BUFF TO OFF WHT HD TO FRM BRITT FN XLN MTX MD XLN MTX IP IMBD FOSS TR IMBD QRTZ XLS IP TR VUGS TO POOR INTERXLN POR TO NO VIS POR FLO 30% STAIN 5% NO ODOR POOR FAINT FLUSH CUT TO SPOTTY SLOW MILKY BLUE STREAM CUT

3417'-3423' LS TN LT TN HD DN BRITT VVFN TO FN XLN MTX TR LMNTD PYR TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

3423'-3427' LS DK TN TO TN LT TN BUFF HD TO FRM BRITT FN XLN MTX TO MD XLN MTX IMBD OOLITES SUB-CHLKY IP TR IMBD PYR IP TR VFN CALC XLS IP LT TO DULL YLW FLO 20% STAIN POOR INTER XLN POR MICRO PP TO PP POR TR VUGS IP FAIR FLUSH CUT TO SLOW MILKY BLUE STREAMING CUT POOR TO FAIR SHOW

3441'-3448' LS GRY LT GRY TN HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS SUCRO TXT THRU TR DULL YLW FLO IP NO STAIN NO ODOR NO VIS POR NO CUT NO VIS SHOW

LS CRM BUFF OFF WHT HD DN TT CRYPTO XLN MTX TR PYR NODULES IN TRAY NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY SMOOTH HRD FRM CALC

LS GRY DK TN TO TN BUFF MOTT HD TT CRYPTO TO VVFN XLN MTX TR LT OPAQUE CHERT IP TR IMBD PYR IP NO FLO NO VIS POR NO VIS SHOW

LS LT TN CRM BUFF OFF WHT HD DN TT TO BRITT VVFN TO FN XLN MTX TR-XLN MTX IP IMBD FOSS SCATT DULL YLW FLO NO VIS POR NO CUT NO VIS SHOW

LS LT GRY TN BUFF HD DN BRITT CRYPTO XLN MTX NO FLO NO VIS POR NO VIS SHOW

SH GRY BRN FRM WAXY TEXT THRU

LS TN LT TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX TR LT ORG CHERT IP NO FLO NO VIS POR NO VIS SHOW

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

LS LT TN CRM BUFF LT GRY IP HD TO FRM VVFN TO FN XLN MTX SUCRO TXT TR IMBD FOSS IP TR DISS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

BASE KANSAS CITY 3552' -1525'

SH DK GRY TO GRY FRM TO SFT SMOOTH SPLNTY

LS DK BRN DK TN TO TN HD DN TT CRYPTO XLN MTX WITH IMBD OPAQUE CHERT

SH LT GRY TO LT PURPLE AND PINK WITN LT WHT TO TRANS LUCENT CHERT IP

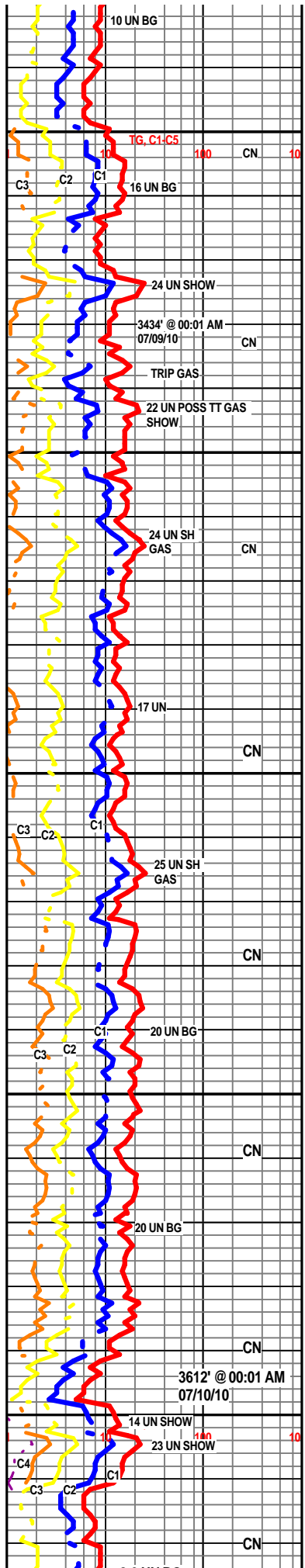
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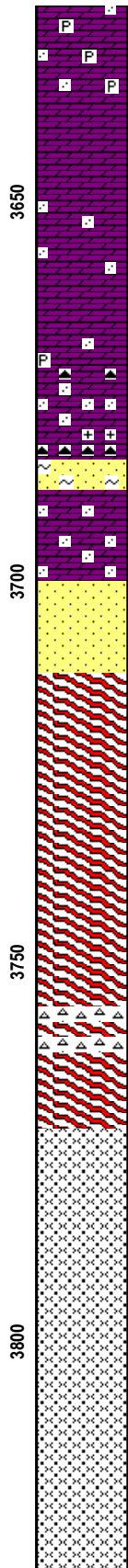
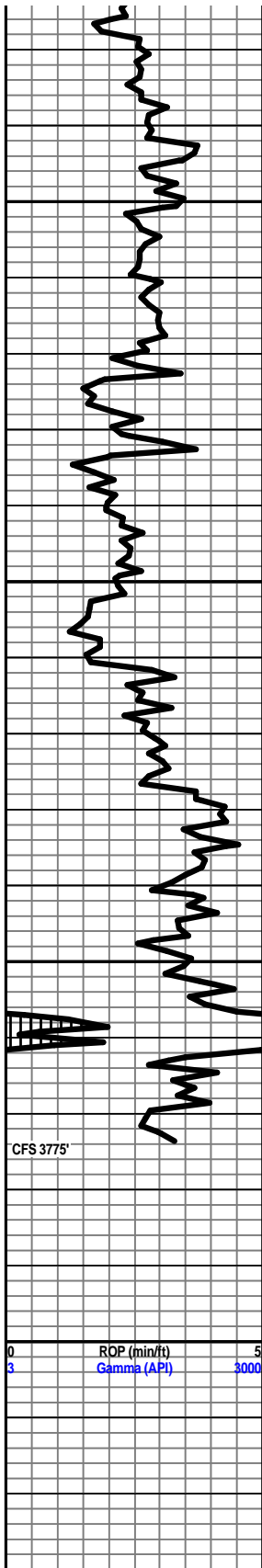
SS CLR FRSTY WHT SM SUB-RND TO RND SS GRNS WITH CALC CMNT GLAC TR OIL STAIN IP LT YLW FLO IP TR IMBD GRY SH IP TR PYR IP POSS TT INTERGRAN POR FAINT FLUSH CUT TO DULL LT YLW RING CUT

ARBUCKLE 3598' -1571'

DOL WHT TO OFF WHT HD TO FRM VVFN TO FN TO MD XLN MTX RE-XLN MTX IMBD ANG TO SUB-ANG DOL XLS TR IMBD FOSS IP IMBD CLR TO FRSTY QRTZ XLS LT YLW FLO 60% GLDN YLW FLO 20% STAIN 40% FAIR TO GOOD ODOR POOR FAIR TO TR GOOD INTERXLN POR INSTANT FLUSH CUT TO FAIR TO GOOD MILKY BLUE STREAMING CUT

DOL CRM BUFF OFF WHT LT GRY HD TO FRM VVFN TO FN TO MD XLN MTX TR IMBD DOL XLS TR IMBD FRSTY WHT QRTZ XLS IP CHLKY THRU LT YLW FLO TO NO FLO NO ODOR NO STAIN FAIR TO GOOD INTERXLN POR TR MICRO PP POR NO CUT NO VIS SHOW





DOL CRM BUFF OFF WHT TO WHT HD DN FRM VVFN TO FN XLN MTX TR
IMBD QRTZ XLS IP TR IMBD FOSS IP TR IMBD PYR IP NO STAIN NO FLO
NO VIS POR NO VIS SHOW

DOL OFF WHT TO WHT HD DN TT CRYPTO TO VVFN XLN MTX NO VIS
POR NO VIS SHOW

DOL OFF WHT TO WHT LT GRY TO TN HD DN VVFN TO FN XLN MTX TR
FELDSPAR TR IMBD SM,MD CLR SS GRNS IMBD NO FLO POSS TT
INTERXLN POR NO CUT NO VIS SHOW

DOL OFF WHT TO WHT LT GRY TO TN HD DN VVFN TO FN XLN MTX TR
FELDSPAR TR IMBD SM,MD CLR SS GRNS IMBD NO FLOPOSS INTER
XLN PORNO CUT NO VIS SHOW

SS CLR FRSTY WHT LT TN LT GRY CLUSTERS FAIR SORT SUB-ANG
TO SUB-RND TO RND WITH SILICIOUS AND DOL CMNT TR GLAC TR
IMBD GRY CLY NO POOR TO FAIR TR GOOD INTER-GRAN POR NO FLO
NO STAIN NO ODOR NO CUT NO VIS SHOW

DOL CRM OFF WHT TO WHT HD TO FRM BRITT VVFN TO FN XLN MTX
IMBD CLR SUB-RND TO RND SS GRNS THRU POOR INTERXLN POR TO
NO POR NO STAIN NO CUT NO VIS SHOW

SS CLR FRSTY WHT UNCONSOL SUB-RND TO RN SS GRNS LOOSE IN
TRAY THRU NO FLO NO STAIN NO ODOR NO VIS SHOW

QRTZITE CLR TO FSTY SM TO MD ANG TO SUB-ANG
UNCONSOLIDATED NO FLO NO VIS POR NO VIS SHOW

QRTZITE HD CLR FROSTY TO WHT UNCONSOLIDATED
MD TO LG ANG TO SUB-ANG LOOSE IN TRAY NO FLO NO
STAIN NO VIS POR NO VIS SHOW

QRTZITE CLR TO FSTY CLUSTERS SM TO MD TO
SUB-RND TO RND WITH IMBD GRY GRN CLAY NO FLO
NO VIS POR NO VIS SHOW

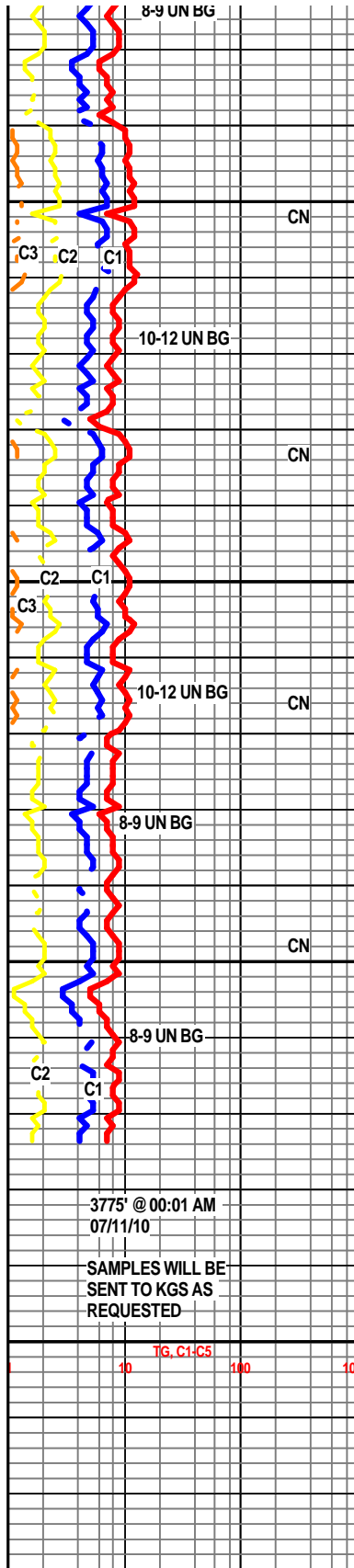
CHERT DK TN TO TN OPAQUE TO ORNG PURPLE HD DN
TT MICRO CRYPTO TO CRYPTO XLN MTX NO FLO NO VIS
POR NO VIS SHOW

RTD 3775' 07/10/10

CTCH 1.5 HRS

TOH FOR LOGS

THANK YOU FOR CHOOSING EARTHTECH



3775' @ 00:01 AM
07/11/10

SAMPLES WILL BE
SENT TO KGS AS
REQUESTED

CN

CN

CN

CN

CN

10 100 10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39852

DST#: 1

Test Start: 2010.07.08 @ 23:32:39

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

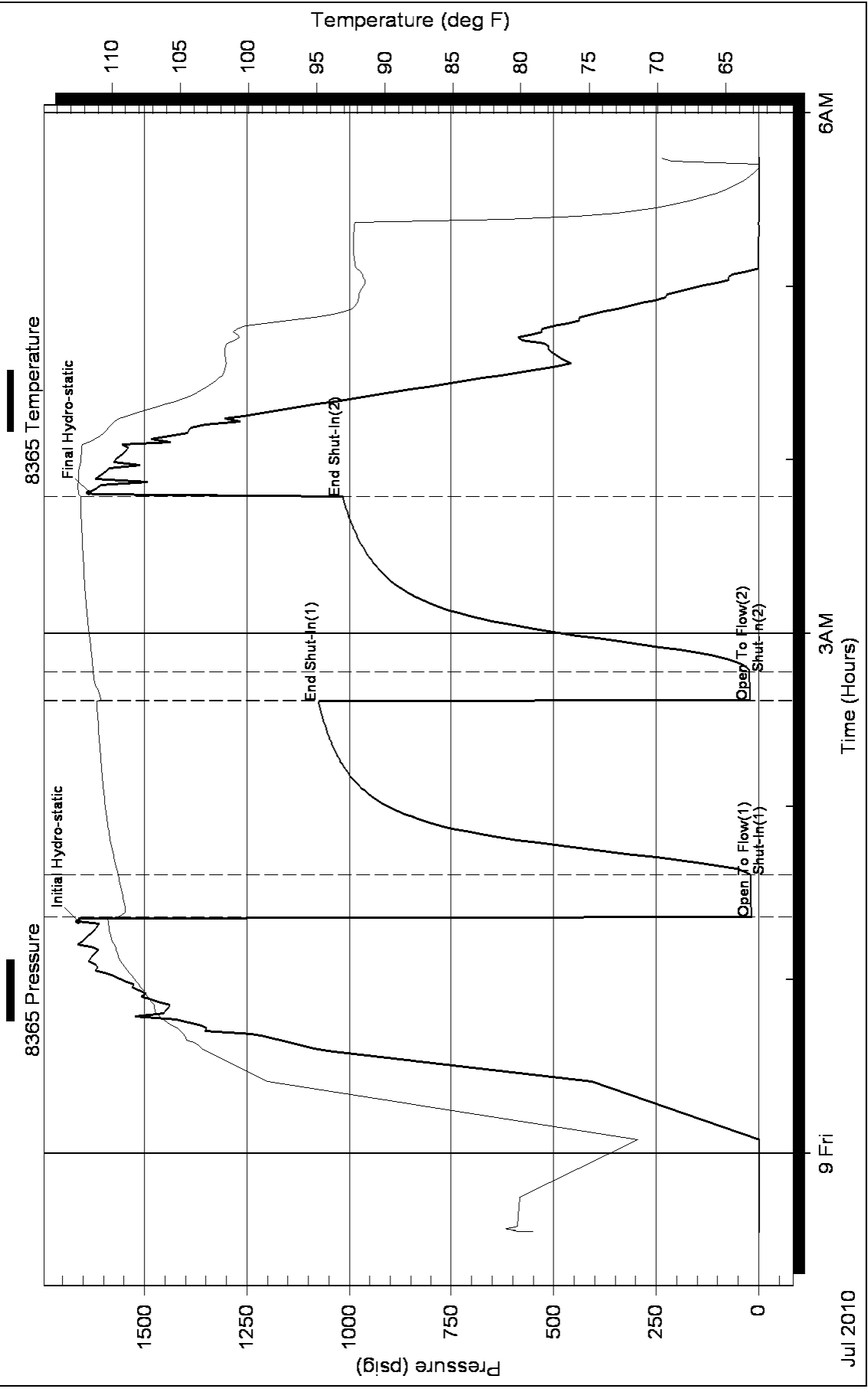
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr&Assoc Inc**

1515 Wynkoop
Ste 700
Denver Ks 80202

ATTN: Clayton Camozzi

19-17s-15w Barton

Stos-Stos #1-19

Start Date: 2010.07.10 @ 02:36:32

End Date: 2010.07.10 @ 10:39:26

Job Ticket #: 39853 DST #: 2

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39853 **DST#: 2**

Test Start: 2010.07.10 @ 02:36:32

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:24:27

Time Test Ended: 10:39:26

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 3550.00 ft (KB) To 3612.00 ft (KB) (TVD)

Reference Elevations: 2027.00 ft (KB)

Total Depth: 3612.00 ft (KB) (TVD)

2017.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8365 Inside

Press @ Run Depth: 243.99 psig @ 3552.01 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.10 End Date: 2010.07.10

Last Calib.: 2010.07.10

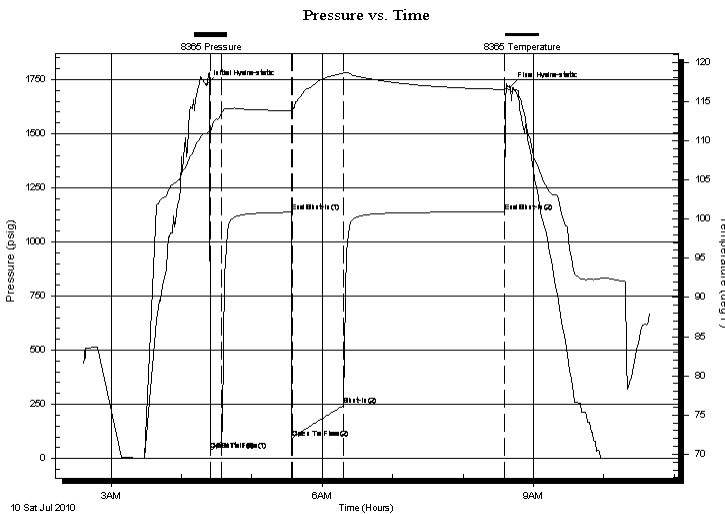
Start Time: 02:36:32 End Time: 10:39:26

Time On Btm: 2010.07.10 @ 04:21:27

Time Off Btm: 2010.07.10 @ 08:39:56

TEST COMMENT: IFP-w k to strg in 7 min
FFP-w k to strg in 15 min
Times 10-60-45-135
no bl on shut-in

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.69	110.95	Initial Hydro-static
3	38.25	110.81	Open To Flow (1)
13	79.75	113.48	Shut-In(1)
72	1137.67	113.87	End Shut-In(1)
73	95.15	113.87	Open To Flow (2)
117	243.99	118.63	Shut-In(2)
254	1138.83	116.53	End Shut-In(2)
259	1716.83	116.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	CO	0.42
100.00	OCM 20%O80%M	1.40
186.00	SOCMW 5%O10%M85%W	2.61
248.00	Water	3.48

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39853

DST#: 2

Test Start: 2010.07.10 @ 02:36:32

Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3550.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.02 ft			
Tool Length:	90.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3523.00	
Shut In Tool	5.00			3528.00	
Hydraulic tool	5.00			3533.00	
Jars	5.00			3538.00	
Safety Joint	2.00			3540.00	
Packer	5.00			3545.00	28.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	1.00			3552.00	
Recorder	0.01	8365	Inside	3552.01	
Recorder	0.01	6625	Outside	3552.02	
Blank Spacing	32.00			3584.02	
Perforations	25.00			3609.02	
Bullnose	3.00			3612.02	62.02 Bottom Packers & Anchor

Total Tool Length: 90.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc Inc

Stos-Stos #1-19

1515 Wynkoop
Ste 700
Denver Ks 80202
ATTN: Clayton Camozzi

19-17s-15w Barton

Job Ticket: 39853

DST#: 2

Test Start: 2010.07.10 @ 02:36:32

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 38000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.15 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7100.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	CO	0.421
100.00	OCM 20%O80%M	1.403
186.00	SOCMW 5%O10%M85%W	2.609
248.00	Water	3.479

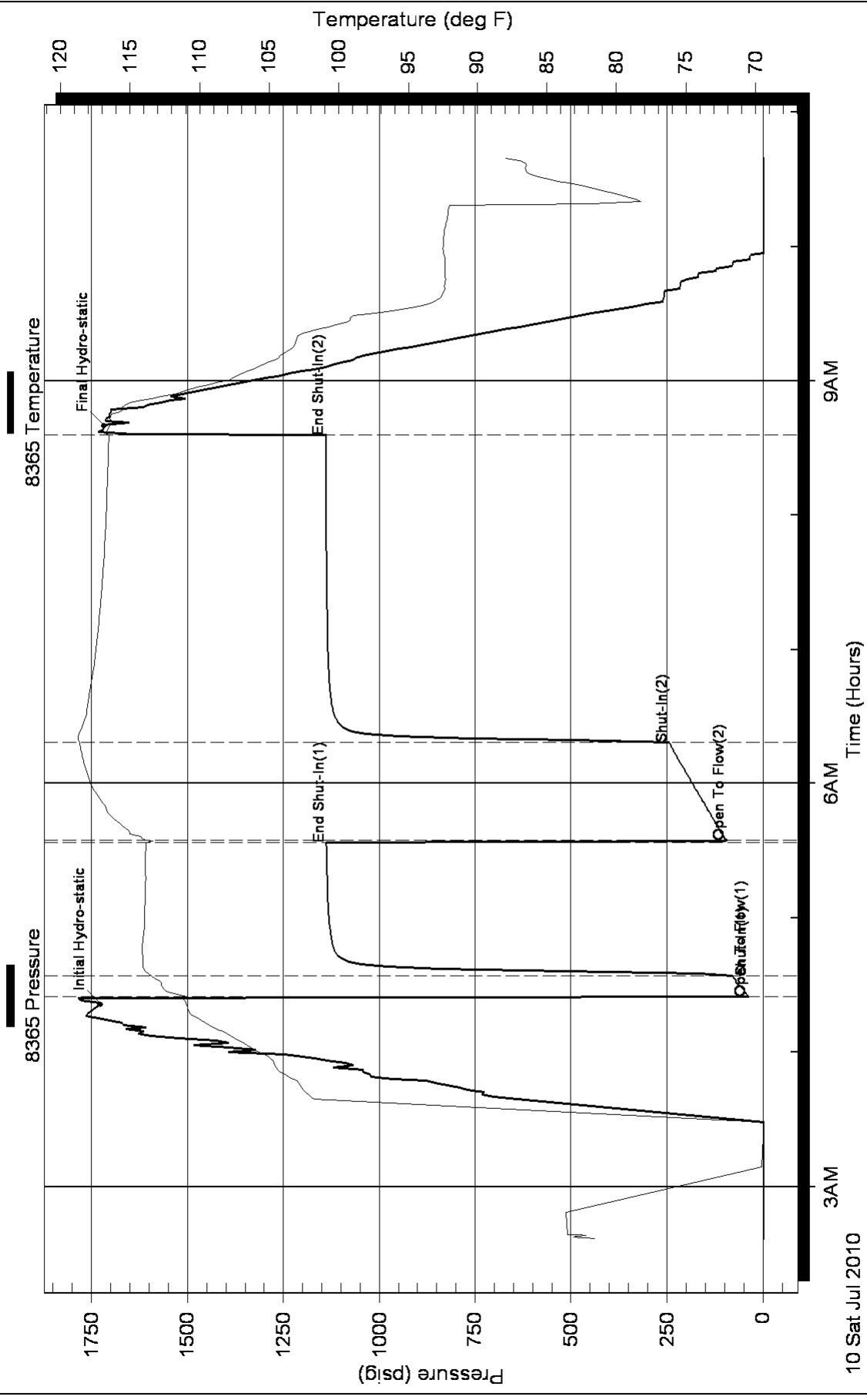
Total Length: 564.00 ft Total Volume: 7.912 bbl

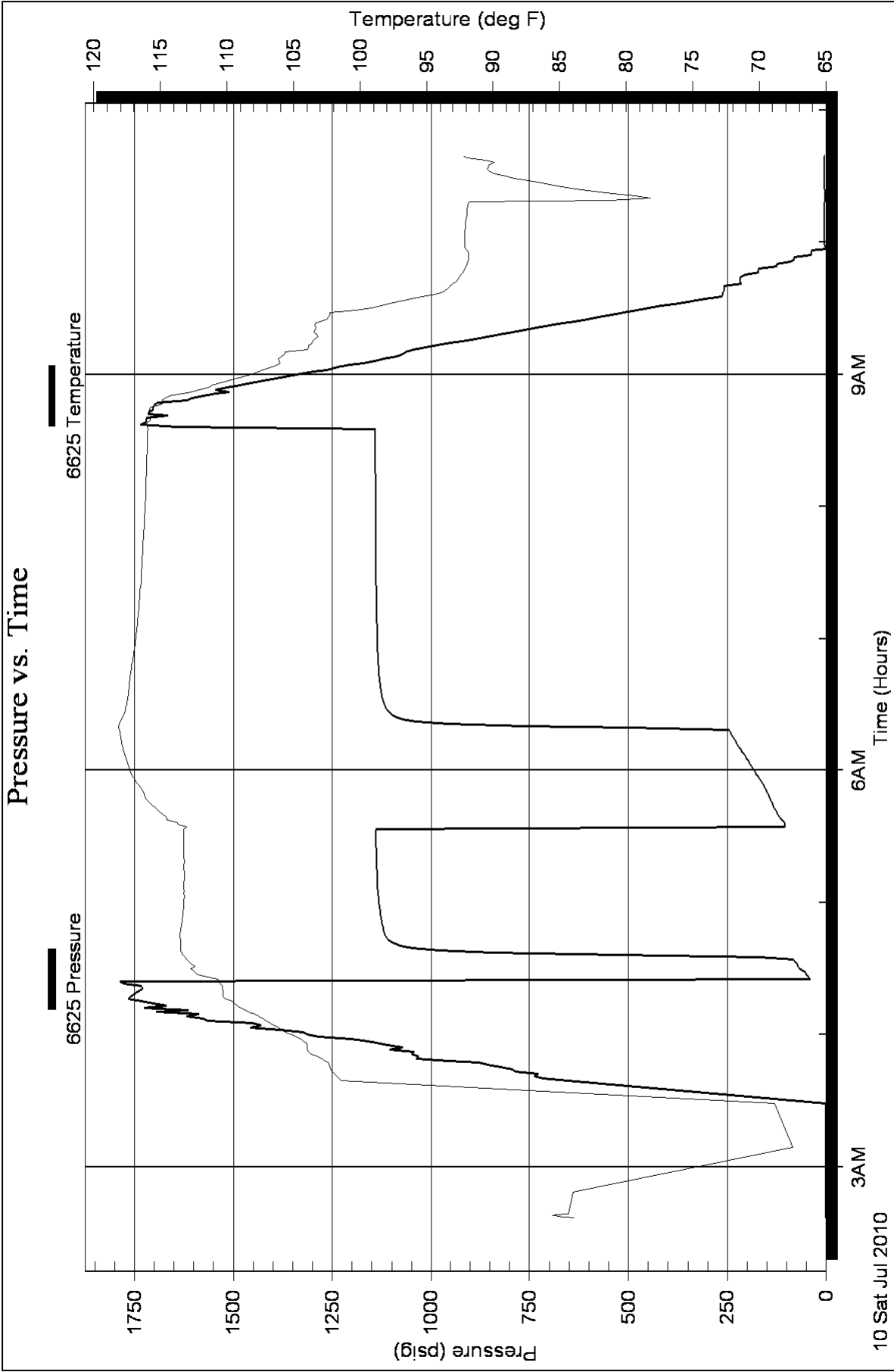
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

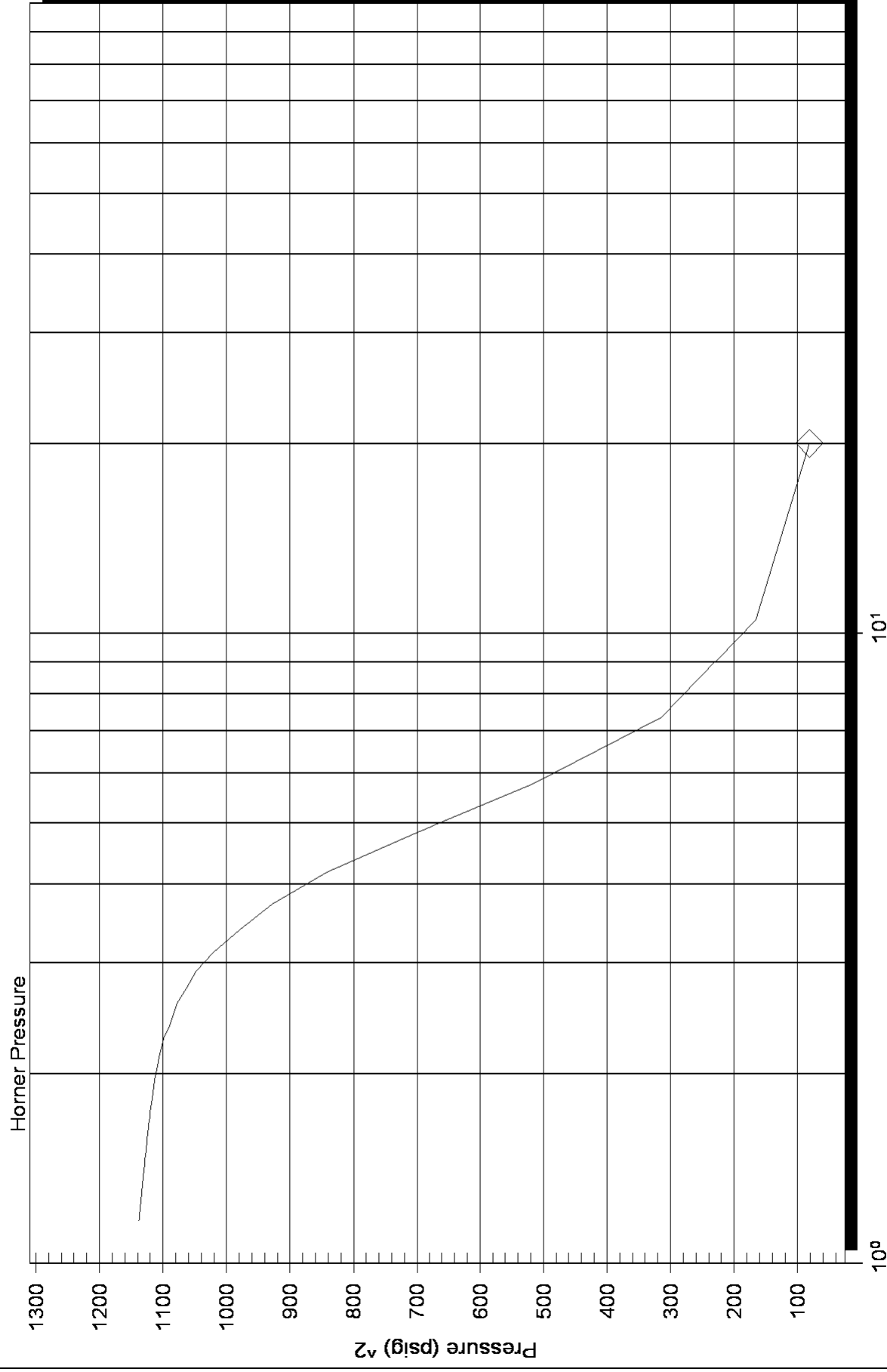
Recovery Comments: RW .13 @ 96F

Pressure vs. Time

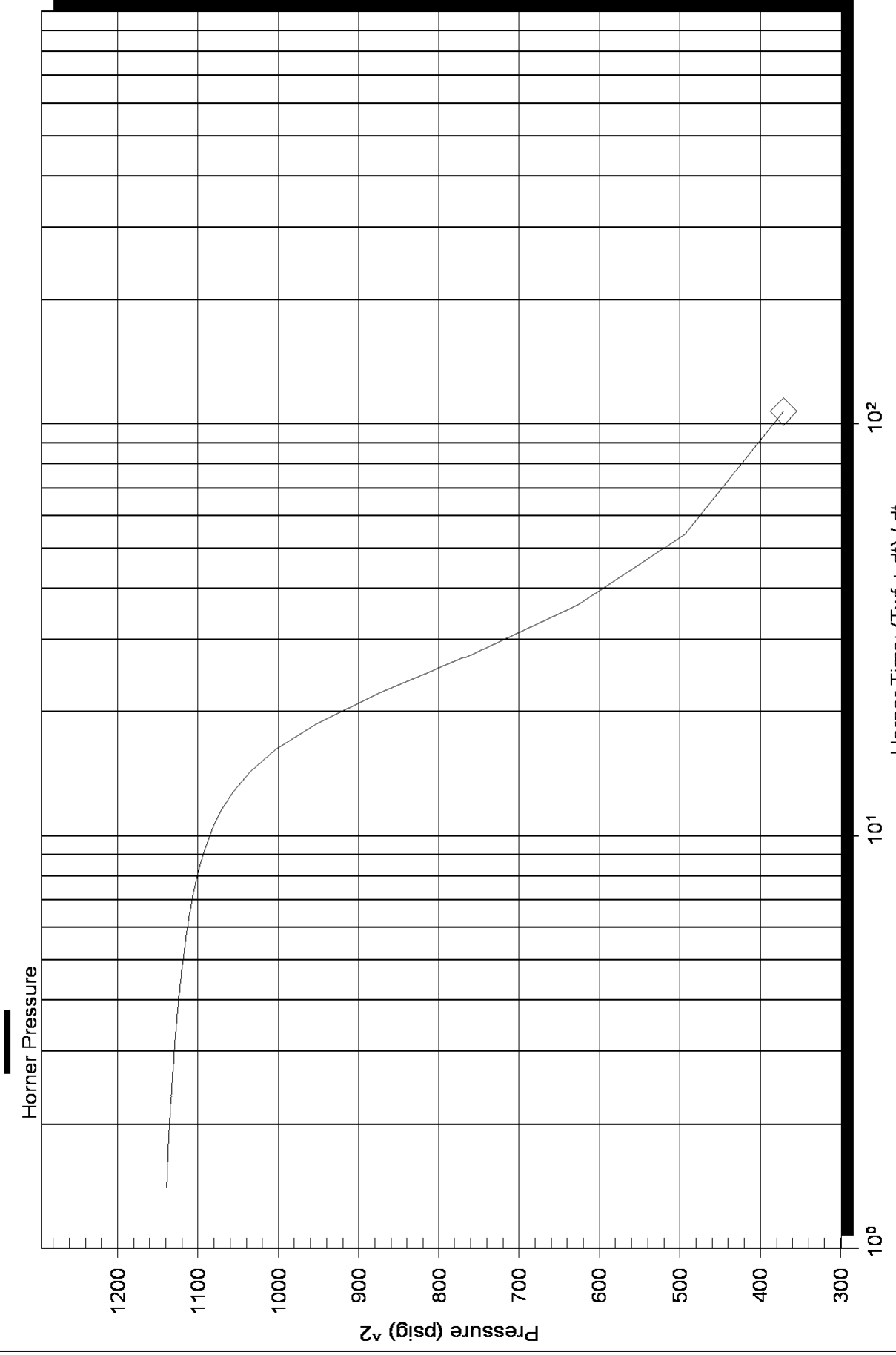




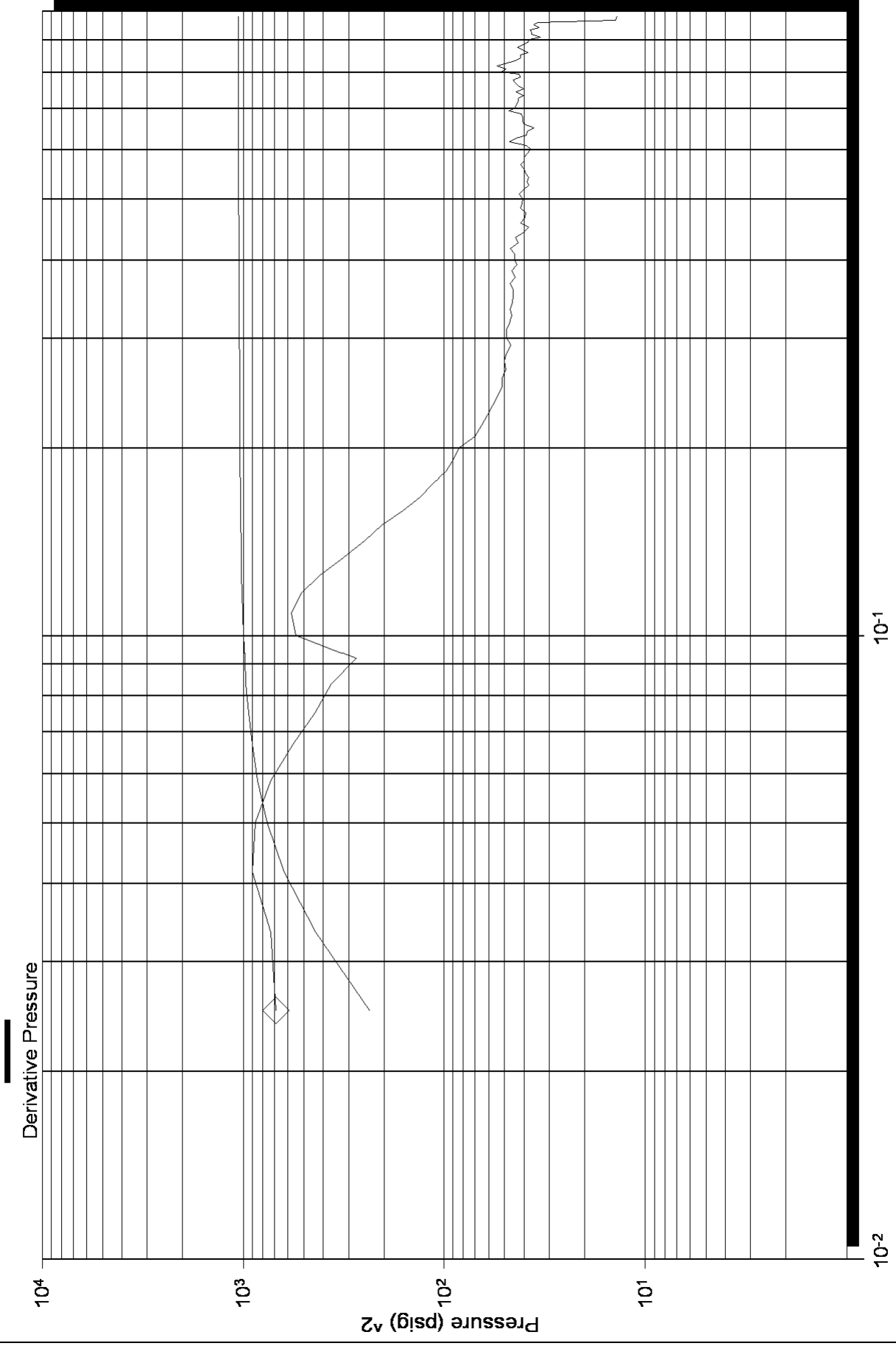
Homer Plot



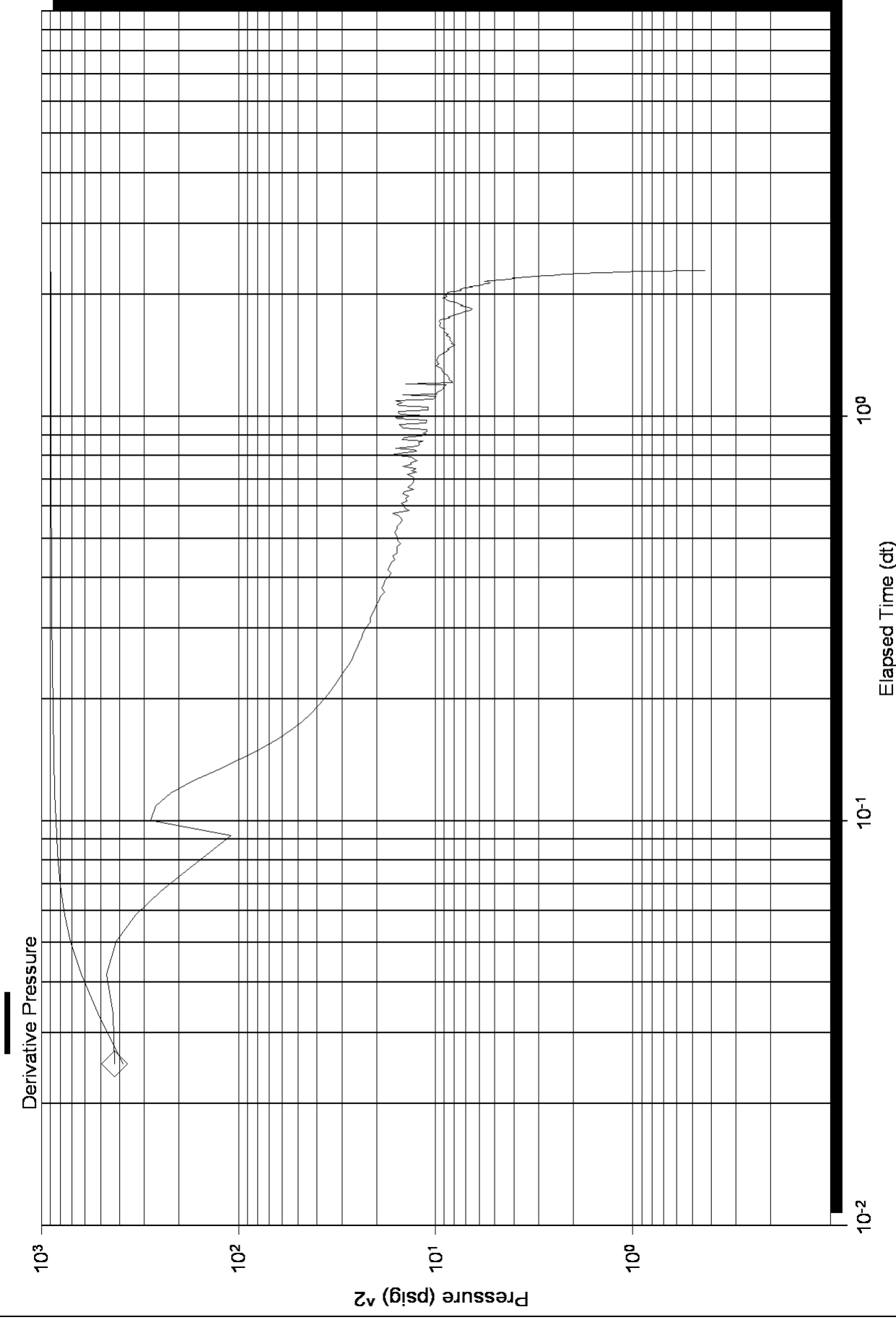
Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **SamGary Jr**

1515 Wynkoop Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

Sec19Twp17sRge15w

Stos-Stos 1-19

Start Date: 2010.07.11 @ 06:50:02

End Date: 2010.07.11 @ 16:34:32

Job Ticket #: 38775 DST #: 3

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

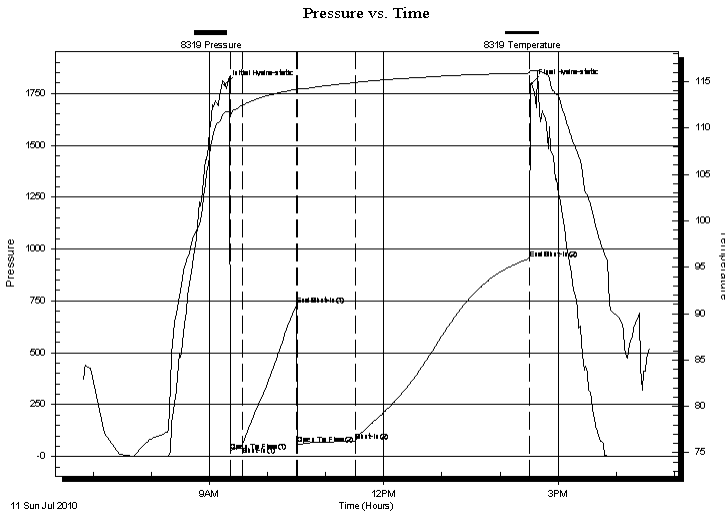
GENERAL INFORMATION:

Formation: **Arb**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:21:32
Time Test Ended: 16:34:32
Interval: **3593.00 ft (KB) To 3602.00 ft (KB) (TVD)**
Total Depth: 3773.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Straddle
Tester: Brett Dickinson
Unit No: 47
Reference Elevations: 2030.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8319 Inside
Press @ Run Depth: 75.73 psig @ 3594.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.11 End Date: 2010.07.11 Last Calib.: 2010.07.11
Start Time: 06:50:07 End Time: 16:34:32 Time On Btm: 2010.07.11 @ 09:16:02
Time Off Btm: 2010.07.11 @ 14:32:32

TEST COMMENT: IF-3in blow
IS-No blow
FF-5.25in blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.56	111.69	Initial Hydro-static
6	24.96	111.36	Open To Flow (1)
18	49.90	112.43	Shut-In(1)
74	731.69	114.16	End Shut-In(1)
75	58.22	114.18	Open To Flow (2)
135	75.73	114.91	Shut-In(2)
314	954.70	115.92	End Shut-In(2)
317	1796.39	116.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOCM 10%O 90%M	0.34
80.00	SGO 5%G 95%O	0.63
0.00	90ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

SamGary Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

Tool Information

Drill Pipe:	Length: 3467.00 ft	Diameter: 3.80 inches	Volume: 48.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3593.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	3602.00 ft			
Interval between Packers:	9.00 ft			
Tool Length:	206.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Jars	4.00			3581.00	
Safety Joint	3.00			3584.00	
Packer	4.00			3588.00	27.00 Bottom Of Top Packer
Packer	5.00			3593.00	
Stubb	1.00			3594.00	
Recorder	0.00	8319	Inside	3594.00	
Perforations	4.00			3598.00	
Recorder	0.00	6719	Inside	3598.00	
Blank Off Sub	1.00			3599.00	
Blank Spacing	3.00			3602.00	9.00 Tool Interval
Packer	0.00			3602.00	
Stubb	1.00			3603.00	
Recorder	0.00	8369	Below	3603.00	
Perforations	3.00			3606.00	
Change Over Sub	1.00			3607.00	
Blank Spacing	155.00			3762.00	
Change Over Sub	1.00			3763.00	
Perforations	6.00			3769.00	
Bullnose	3.00			3772.00	170.00 Bottom Packers & Anchor
Total Tool Length:	206.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

SamGary Jr
1515 Wynkoop Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Stos-Stos 1-19
Sec19Twp17sRge15w
Job Ticket: 38775 **DST#: 3**
Test Start: 2010.07.11 @ 06:50:02

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: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	SOCM 10%O 90%M	0.344
80.00	SGO 5%G 95%O	0.630
0.00	90ft GIP	0.000

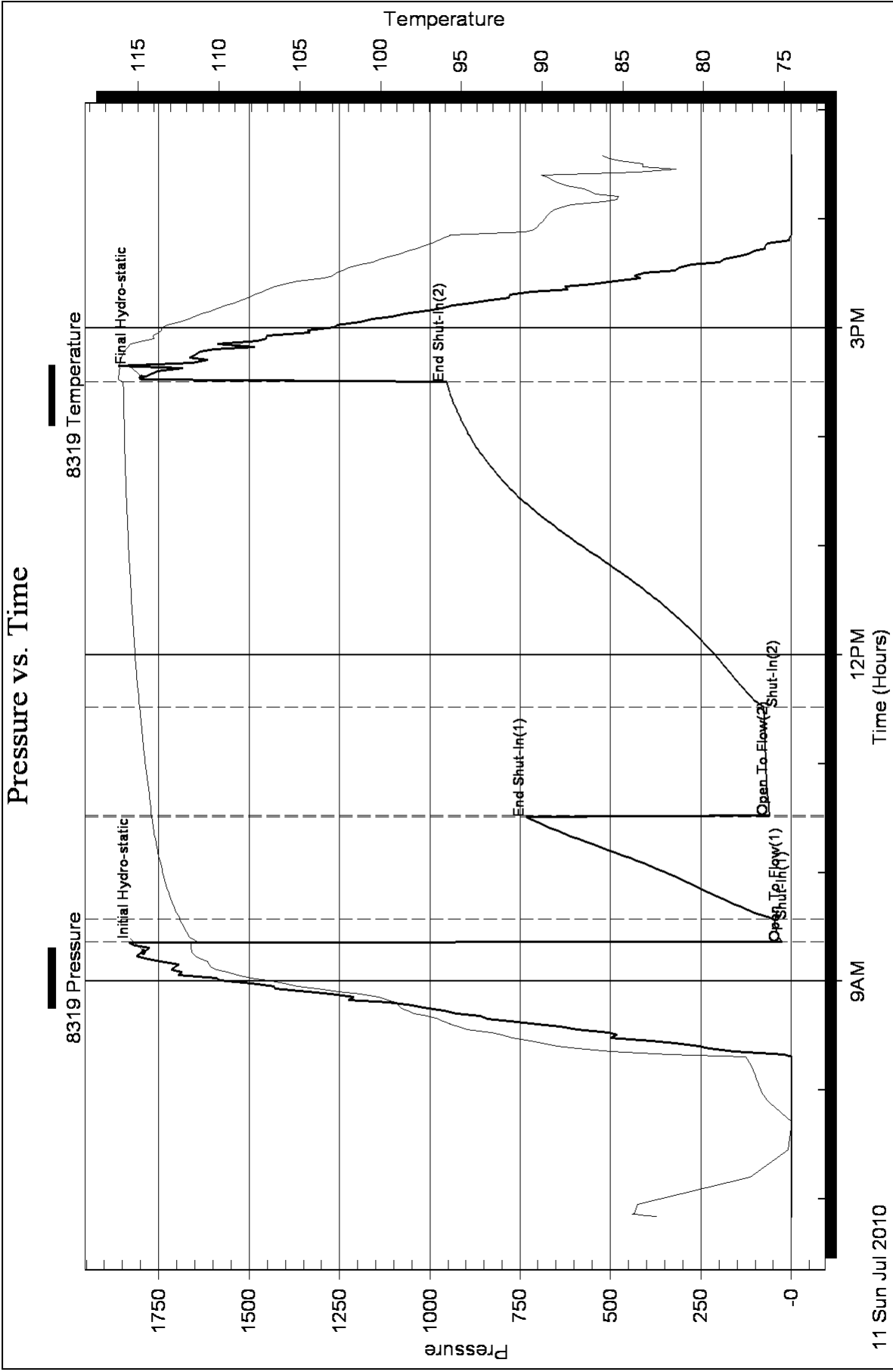
Total Length: 150.00 ft Total Volume: 0.974 bbl

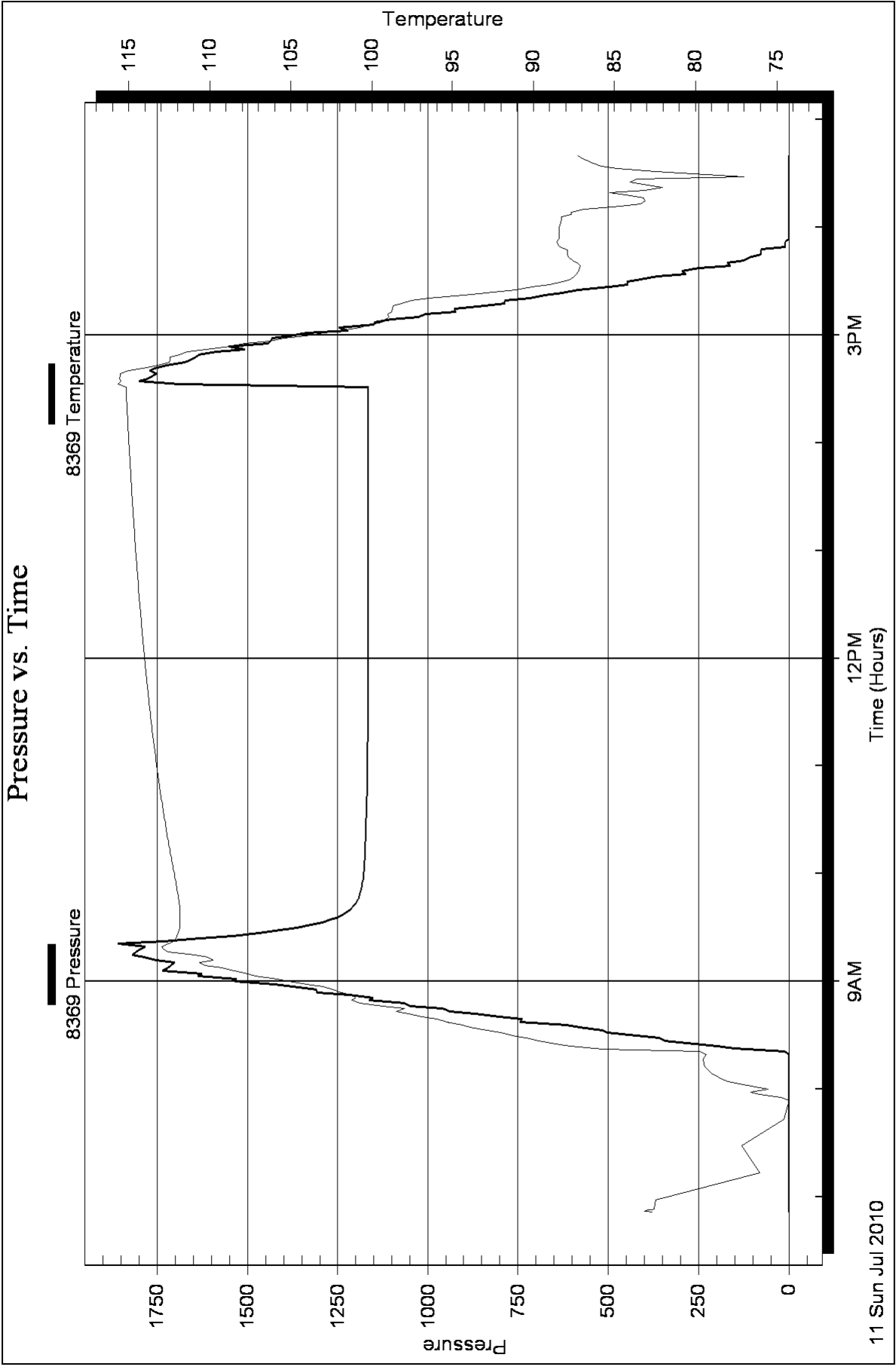
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

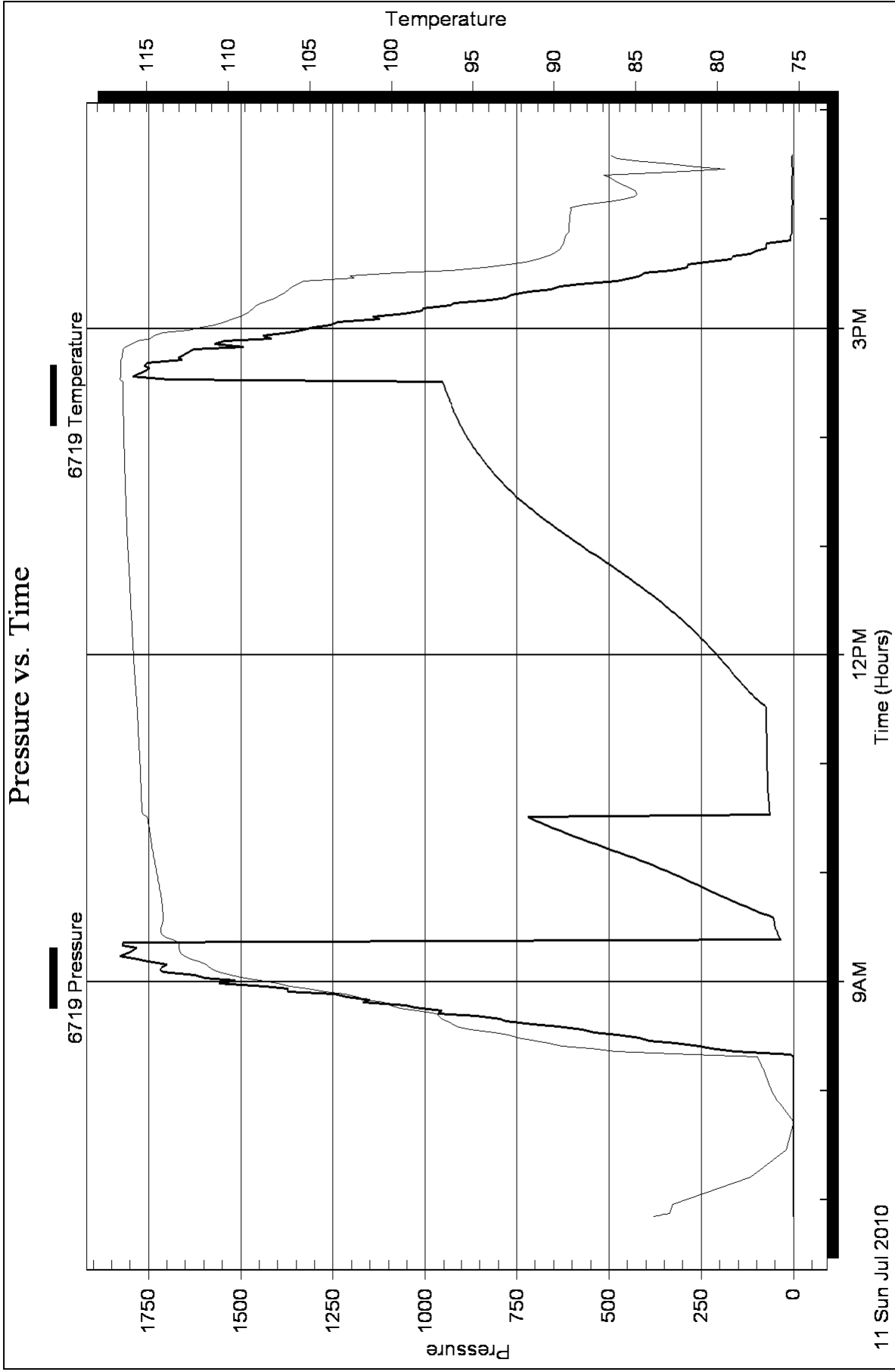
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

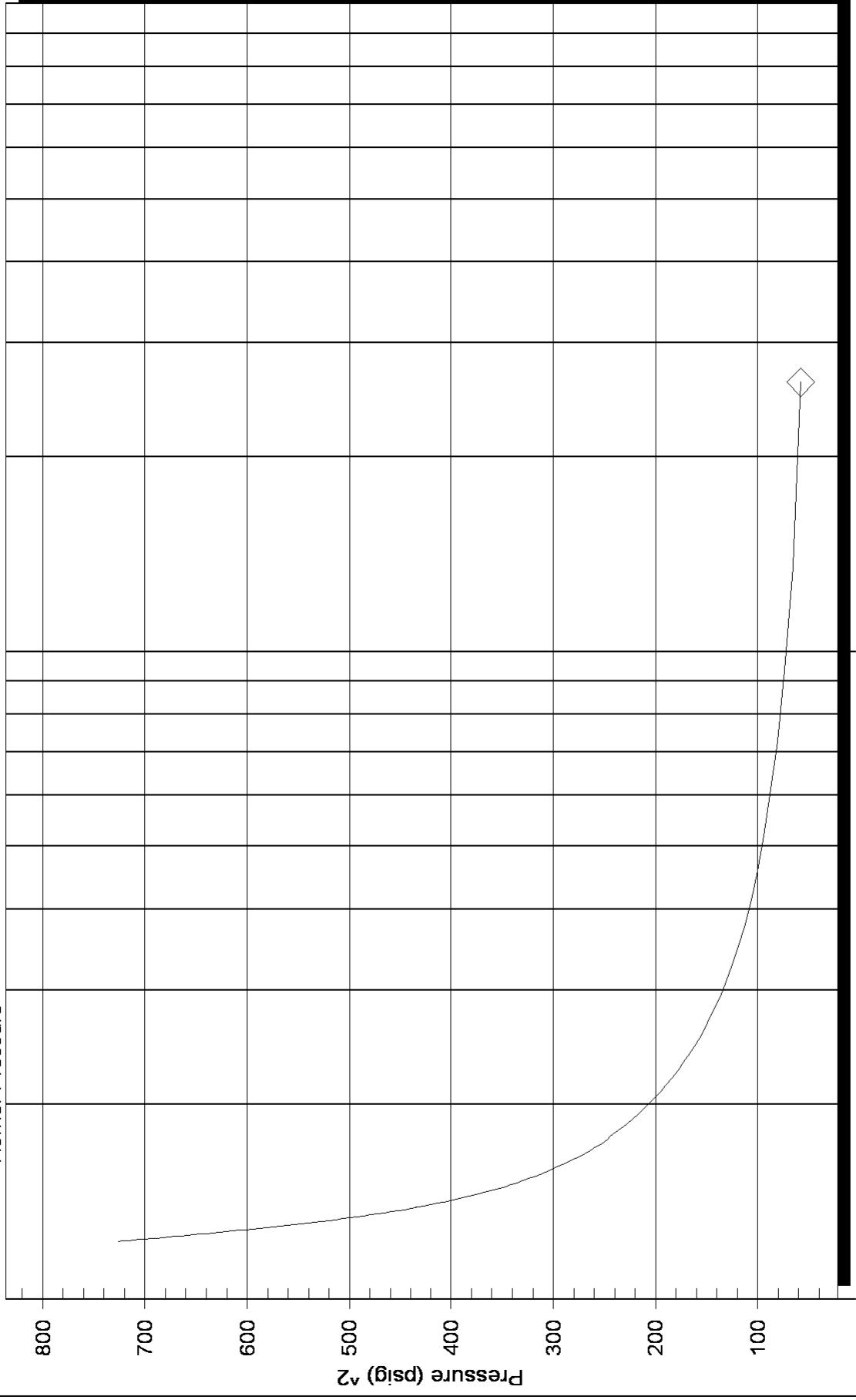






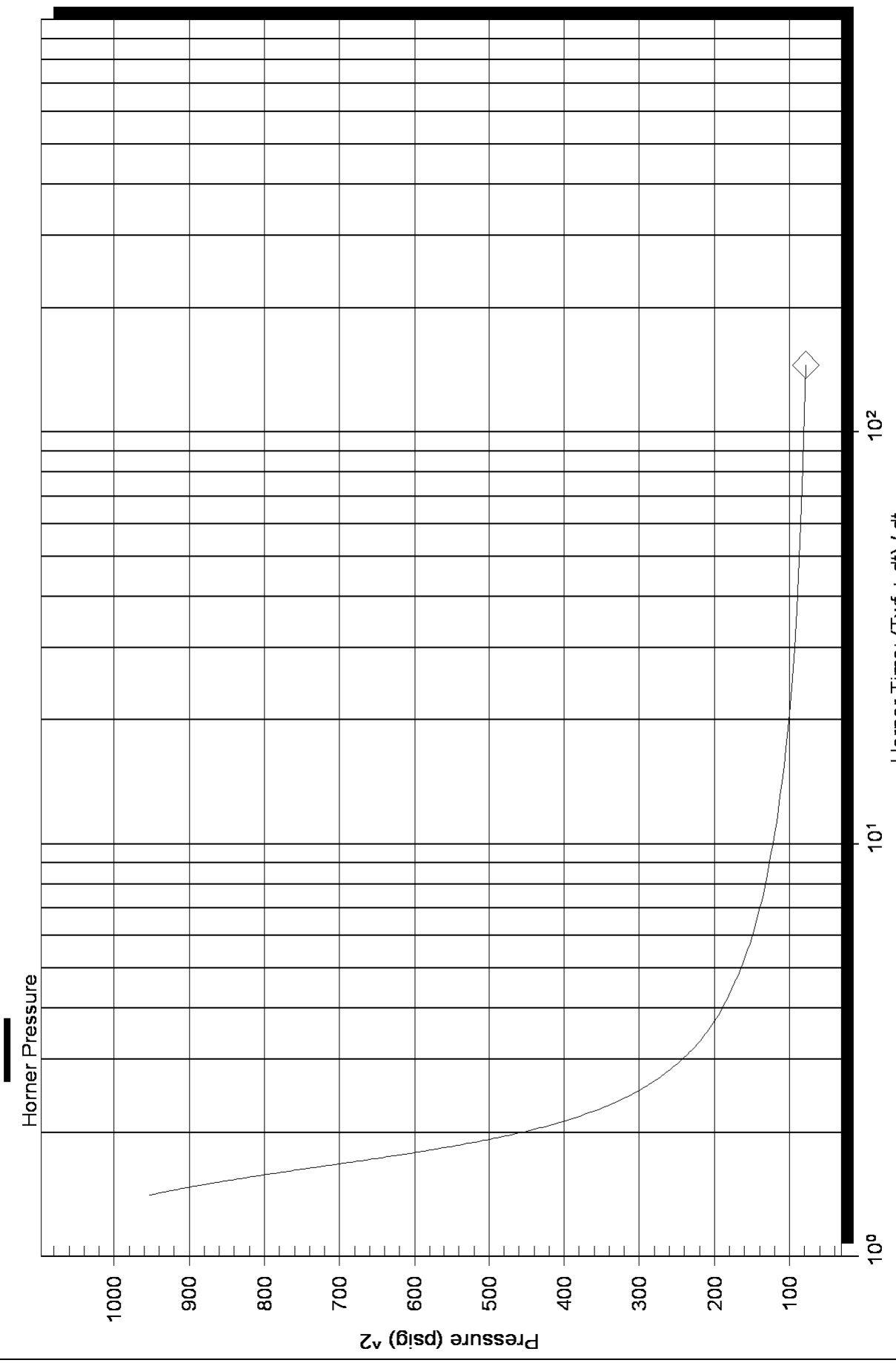
Homer Plot

Horner Pressure

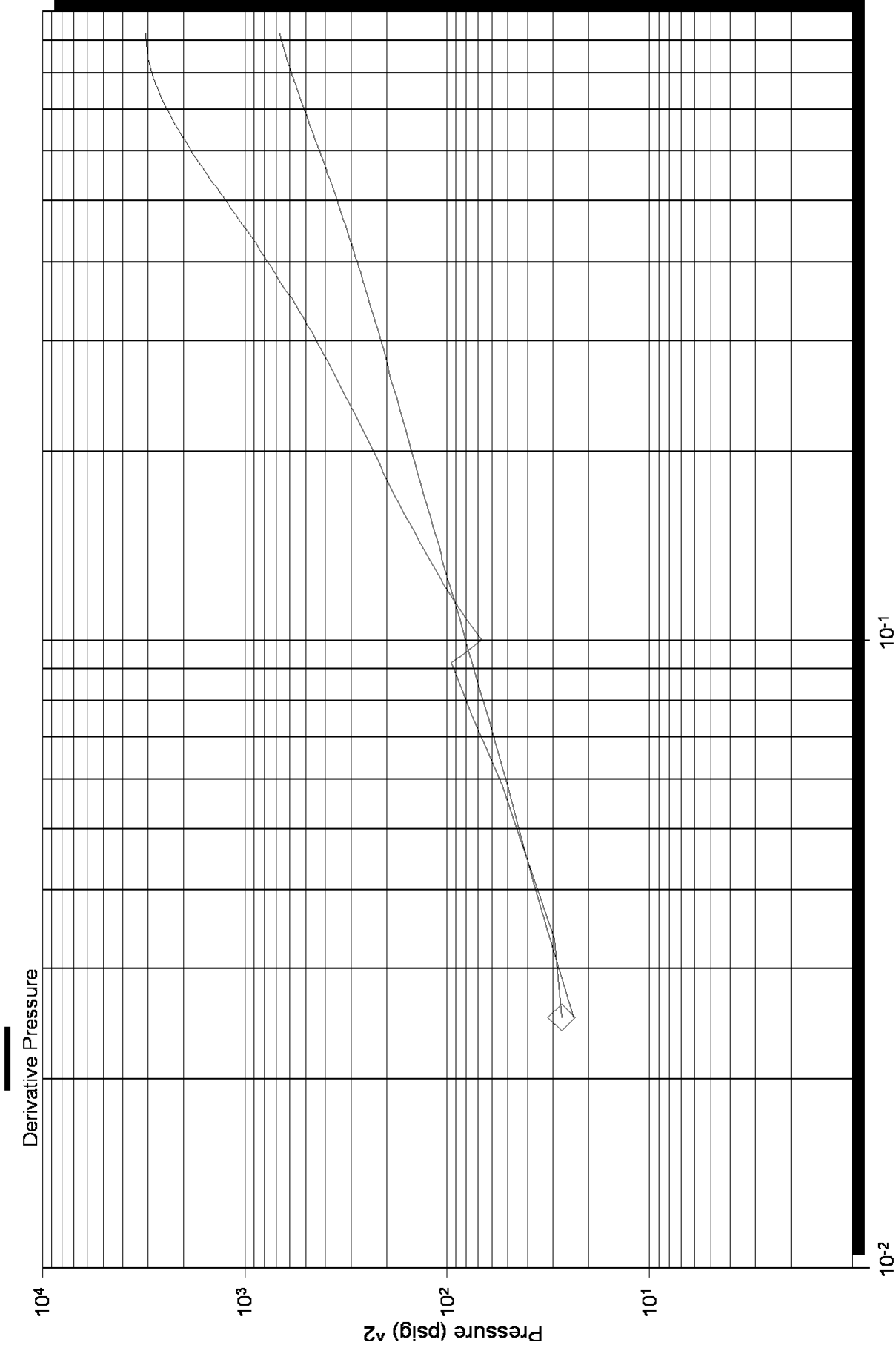


Horner Time: (Twf + dt) / dt

Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

