



KANSAS CORPORATION COMMISSION 1054327
OIL & GAS CONSERVATION DIVISION

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: CLAYTON CAMOZZI
Phone: (303) 831-4673
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: TIM HEDRICK
Purchaser: GARY WILLIAMS

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 #:

12/10/2010	12/19/2010	12/22/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-21909-00-00
Spot Description:
S2 N2 S2 Sec. 7 Twp. 16 S. R. 16 East West
1,650 Feet from North / South Line of Section
2,640 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Rush
Lease Name: Stramel Well #: 1-7
Field Name:
Producing Formation: ARBUCKLE
Elevation: Ground: 1942 Kelly Bushing: 1949
Total Depth: 3631 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1087 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: 52000 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 SW Sec. 5 Twp. 16 S. R. 14 East West
County: BARTON Permit #: 31341

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: NAOMI JAMES Date: 04/21/2011



1054327

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: Stramel Well #: 1-7
 Sec. 7 Twp. 16 S. R. 16 East West County: Rush

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 (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	TOPEKA	2967	-1018
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HEEBNER	3194	-1245
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DOUGLAS	3225	-1276
List All E. Logs Run:		LANSING	3244	-1295
Attached		ARBUCKLE	3523	-1574
		TD	3631	

CASING RECORD <input checked="" 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
SURFACE	12.25	8.625	23	1087	Class A	400	2% GEL 3% CC
PRODUCTION	7.875	5.5	15.5	3620	EA 2	125	5% 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	3408-3412	500 gal. of 28% MCA w/ 3% MAS	3408-3412
4	3419-3424	500 gal. of 28% MCA w/ 3% MAS	3419-3424
4	3493-3498	500 gal. of 28% MCA w/ 3% MAS	3494-3498

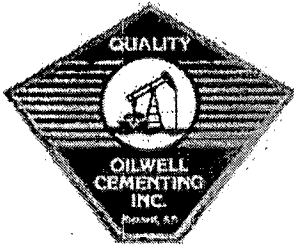
TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>3548</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>01/01/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>25</u>	Gas Mcf	Water Bbls. <u>10</u>	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3408-3498 OA</u>
--	--	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	Stramel 1-7
Doc ID	1054327

All Electric Logs Run

DIL
MICRO
POR
SONIC



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67685
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 12/13/2010
 Invoice # 4493

P.O.#:

Due Date: 1/12/2011

Division: Russell

Invoice

Contact:

Samuel Gary Jr & Associates Inc

Address/Job Location:

Samuel Gary Jr & Associates Inc
 3111 W. 10th Street
 Great Bend, KS 67503

Reference:

STRAMEL 1-7

Description of Work:

LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200 - 138
Well/Prospect	STRAMEL 1-7
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	CEMENT & SERVICES

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 684.84	No
Common-Class A	400	\$ 4,880.00	Yes
8 5/8" Basket	3	\$ 948.00	Yes
Bulk Truck Mat-Material Service Charge	422	\$ 844.00	No
Calcium Chloride	14	\$ 527.24	Yes
Pump Truck Mileage-Job to Nearest Camp	35	\$ 349.30	No
Flo Seal	100	\$ 200.00	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	35	\$ 204.40	No
8 5/8" Centralizer	3	\$ 192.00	Yes
Premium Gel (Bentonite)	8	\$ 130.24	Yes
8 5/8" Top Rubber Plug	1	\$ 108.00	Yes

Item	Quantity	Price	Taxable
Baffle Plate Aluminum, 8 5/8"	1	\$90.00	Yes

Invoice Terms:

Net 30

SubTotal: \$ 9,156.02
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,373.40)

SubTotal for Taxable Items: \$ 6,012.46
 SubTotal for Non-Taxable Items: \$ 1,188.05

Total: \$ 7,782.62
 Tax: \$ 378.78

6.30% Rush County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,161.40
 Applied Payments:
 Balance Due: \$ 8,161.40

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

RECEIVED

DEC 20 2010

SAMUEL GARY JR.
 & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.#

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

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

No. 4493

Date	12-11-10	Sec.	7	Twp.	16	Range	16	County	Rush	State	Ks	On Location		Finish	2:45 PM
Lease	Stramel	Well No.	#1-7	Location Galatia, Ks - 7 W to Curve, 1 N to Curve,											
Contractor	Royal Drilling #2	Owner 3W, 1N, 2W, N/S										To Quality Oilwell Cementing, Inc.			
Type Job	Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
Hole Size	12 3/4"	T.D.	1088'	Charge To Sam Gary Tr & Associates											
Csg.	8 5/8"	Depth	1091.86'	Street											
Tbg. Size		Depth		City											
Tool		Depth		State											
Cement Left in Csg.	42.70'	Shoe Joint	42.70'	The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line		Displace	66 3/4 BLS	Cement Amount Ordered 400 Sx Common 3% CL 2% Gel											
EQUIPMENT														1/4 Flowseal	
Pumptrk	1	No.		Cementer	Deale	Common 400									
Bulktrk	12	No.		Driver	Copy	Poz. Mix									
Bulktrk	p.u.	No.		Driver	Rick	Gel. 8									
JOB SERVICES & REMARKS														Calcium 14	
Remarks:	Cement d.d. Circulate.												Hulls		
Rat Hole													Salt		
Mouse Hole													Flowseal 100#		
Centralizers	113,25												Kol-Seal		
Baskets	7,14,20												Mud CLR 48		
D/V or Port Collar													CFL-117 or CD110 CAF 38		
10 BLS Cement to job														Sand	
10 BLS Cement to job														Handling 22	
10 BLS Cement to job														Mileage	
10 BLS Cement to job														FLOAT EQUIPMENT	
10 BLS Cement to job														Guide Shoe	
10 BLS Cement to job														Centralizer 3	
10 BLS Cement to job														Baskets 3	
10 BLS Cement to job														AFU Inserts	
10 BLS Cement to job														Float Shoe	
10 BLS Cement to job														Latch Down	
10 BLS Cement to job														1 - Baffle plate	
10 BLS Cement to job														1 - Rubber plug	
10 BLS Cement to job														Pumptrk Charge Long Surfaces	
10 BLS Cement to job														Mileage 35	
10 BLS Cement to job														Tax	
10 BLS Cement to job														Discount	
10 BLS Cement to job														Total Charge	

X Signature *D. Stahl*



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
12/18/2010	19893

BILL TO
Samuel Gary Jr & Associates, Inc. 3111 West 10th Street Suite 101 Great Bend, KS 67530

- Acidizing
- Cement
- Tool Rental

1/13
✓ 1101-AP-118

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-7	Strcmel	Rush	Royal	Oil	Development	Cement Long Str...	
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				30	Miles	5.00	150.00
578D-D	Pump Charge - Deep Squeeze (> 1500 Ft.)				1	Job	1,400.00	1,400.00
403-5	5 1/2" Cement Basket				1	Each	200.00	200.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	275.00	275.00T
409-5	5 1/2" Turbolizer				5	Each	65.00	325.00T
419-5	5 1/2" Rotating Head Rental				1	Each	150.00	150.00T
326	60/40 Pozmix (2% Gel)				75	Sacks	9.50	712.50T
277	Gilsonite (Coal Seal)				750	Lb(s)	0.40	300.00T
325	Standard Cement				125	Sacks	12.00	1,500.00T
284	Calseal				6	Sack(s)	30.00	180.00T
283	Salt				650	Lb(s)	0.15	97.50T
285	CFR-1				50	Lb(s)	4.00	200.00T
276	Flocele				25	Lb(s)	1.50	37.50T
290	D-Air				2	Gallon(s)	35.00	70.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
581D	Service Charge Cement				200	Sacks	1.50	300.00
583D	Drayage				299.29	Ton Miles	1.00	299.29
Subtotal								7,721.79
Sales Tax Rush County							6.30%	347.92
<input type="checkbox"/> DRLG <input checked="" type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOB <input type="checkbox"/> GG								
Account		8300 - 238						
Well/Prospect		STRCMEL 1-7						
Deck								
AFB								
Approval		<i>[Signature]</i>						
Description		Cementing Prod casing						
Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!							Total	\$8,069.71

RECEIVED

DEC 30 2010

SAMUEL GARY JR & ASSOCIATES, INC.



CHARGE TO: Sam Gary & Assoc.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET
 19893

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Ness City, KS WELL/PROJECT NO. 1-7 LEASE Stromel COUNTY/PARISH Rush STATE KS CITY Loretta DATE 18 DEC 10 OWNER _____
 2. TICKET TYPE SERVICE SALES CONTRACTOR _____ RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO Idication ORDER NO. _____
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE concrete long string WELL PERMIT NO. _____ WELL LOCATION Loretta 2E-1-N 2E
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS ATTN: KURT J. STROBE 3111 W. 10th Suite 101 Great Bend, KS 67530

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			UM		UM	
575		1			MILEAGE TRK 114	30	mi		5.00	150.00
578		1			Pump Charge	1	hrs		1400.00	1400.00
403		1			Cement Basket	5 1/2	in	1 ea	200.00	200.00
406		1			latch down plug & beffle	5 1/2	in	1 ea	225.00	225.00
407		1			insert float shoe w/ auto fill	5 1/2	in	1 ea	275.00	275.00
409		1			turbolizer	5 1/2	in	5 ea	65.00	325.00
419		1			Rotating head rental			1 ea	150.00	150.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [Signature]
 DATE SIGNED _____ TIME SIGNED _____
 A.M.
 P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-AGREE	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2725	00
WE UNDERSTOOD AND MET YOUR NEEDS?				4996	79
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				7721	79
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	347.92
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	8069.71
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

SWIFT OPERATOR [Signature] APPROVAL _____

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 19893

CUSTOMER Stacy Gary & Assoc. WELL STR med 1-7 DATE 19 DEC 10 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		LUM		UNIT PRICE	AMOUNT	
		LOG	ACCT	DF			QTY.	LUM	QTY.	LUM			
326		1				60/40 Poz mix (20% gel)	75	sls			9.50	712	50
277		1				Gilsonite (coal seal)	750	lb			0.40	300	00
325		1				STANDARD cement (FOR EA-2)	125	sls			12.00	1500	00
284		1				Calseal	6	sls			30.00	180	00
283		1				salt	650	lb			0.15	97	50
285		1				CFR	50	lb			4.00	200	00
276		1				Flocele	25	lb			1.50	37	50
240		1				D-AIR	2	gal			35.00	70	00
221		1				KCL liquid	2	gal			25.00	50	00
280		1				Floceck 21	500	gal			2.50	1250	00
581						SERVICE CHARGE							
583						MESSAGE CHARGE							
						TOTAL WEIGHT	150	75 + 75					
						LOADED MILES	30						
						CUBIC FEET			200		1.50	300	00
						TON MILES			299.29		1.00	299	29

CONTINUATION TOTAL 4796.29

JOB LOG

SWIFT Services, Inc.

DATE 18 DEC 10 PAGE NO.

CUSTOMER SAM GARY & ASSOC. WELL NO. 1-7 LEASE Strenel JOB TYPE Concret long string TICKET NO. 19893

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								75 sks 60/40 P02 2% Cell 750 G. White 125 sks EA-2 w/ floccule Centralizer (top to base) 1, 5, 7, 11, 13 Basket 15 TD = 3631 string - haffle 3581 5 1/2 casing 15.5 #
	0730							on loc TRV114
	0825							start 5 1/2 casing in well
	1015							Drop ball - circulate - Rotate
		43 1/4	15				400	run 15 bbl KCL flush
		43 1/4	12				400	run 500 gal Floccul 21
		43 1/4	5				400	run 5 gal KCL flush
			10					Plug RA-14H w/ 60/40 P02 (30sk - 20sk)
		43 1/4	37				300	mix cement 25 sk P02 125 EA-2 @ 15.4 ppm
								washout pump & lines
	1150							Drop latch down plug
		63 1/4					200	Displace plug
		63 1/4	84				700	
	1205		86				1000	Plug down
	1207							Release pressure to truck - hold
								Unsh truck
	1240							JOB complete
								Yun h Done for 2 1/2 hr

Circulating Report

START UNMANNED UNIT 12/12/2010

START MANNED UNIT 12/14/2010

CFS 3254' 20,40,60 TOTAL 1.5 HRS

SHORT TRIP

CTCH 1 HR

CFS 3280' 20,40,60

CFS 3321' 20,40,60

CFS 350' 20,40,60 TOTAL 2 HRS

DST#1

CTCH 3350' 1 HR

CFS 3400' 20,40,60

CFS 3435' 20,40,60 TOTAL 1.5 HRS

DST#2

RIG TIME. CIRCULATING 30 STANDS OFF BOTTOM DUE TO DRILL LINE PROBLEMS START 2:00 PM 12/16/2010





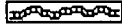



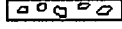



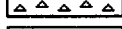

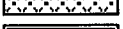

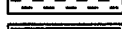








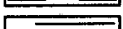




DST's Report

DST#1 3304'-3350' 46' ANCHOR IF:STRNG BLOW. BOB IN 5 MIN,ISI:NO BLOW FF:STRNG BLOW. BOB IN 3 MIN
FSI:WEAK BLOW 1/2-1 1/2" RECOVERY 205' GIP,80,GOCM.110' MW W OIL SPOTS TOTAL 190' BHT 105 DEG API RV
12@43 DEG CLORIDES 119,000, IH:1573,FIF:37,FFF:55,ISI:1011,SIF:54,SFF:108,FSI:963, FH:1554, TIMES:5,60,45,135

DST#2 3386'-3435' ANCHOR:49' IF STRNG BLOW BOB IN 2 MINS ISI:WEAK BLOW 1/2", FF:STRONG BLOW BOB IN
20 SEC FSI:STRONG BLOW GTS WHILE BLEEDING OFF VENT FSIP, RECOVERY:250' GOCM,60'CGO,125'GOCM
TOTAL:435' BHT 105 DEG GRAVITY:36.4 CLORIDES 4600 IH:1641,FIF:41,FFF:67,ISI:
1222,SIF:80,SFF:187,FSI:1195,FH:1597,
TIMES 8,60,60,180

DST's Report

ROCK TYPES

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

ACCESSORIES

MINERAL

- ▣ Anhy
- ▣ Arggrn
- ▣ Arg
- ▣ Bent
- ▣ Bit
- ▣ Brecfrag
- ▣ Calc
- ▣ Carb
- ▣ Chtdk
- ▣ Chtlt
- ▣ Dol
- ▣ Feldspar
- ▣ Ferrpel
- ▣ Ferr
- ▣ Glau
- ▣ Gyp
- ▣ Hvymin
- ▣ Kaol
- ▣ Marl
- ▣ Minxi
- ▣ 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

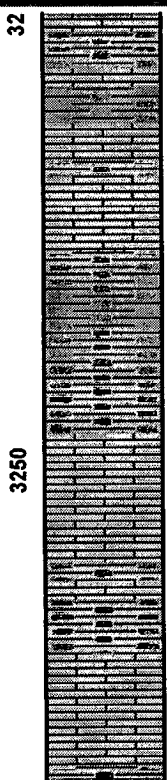
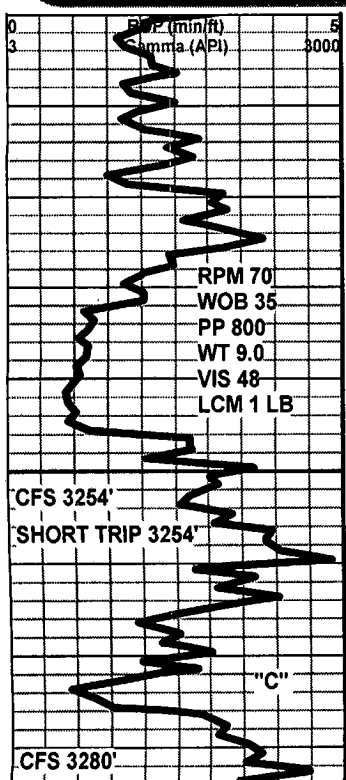
- ▣ Even
- ▣ Spotted
- ▣ Ques
- ▣ Dead
- ▣ Gas show

INTERVALS

- ▣ Core
- ▣ Dst
- ▣ Dst

EVENTS

- ▣ Rft
- ▣ Sidewall



LS GRY BRN DK TN TO BUFF MOTT HD DN BRITT VFN T FN XLN MTX TR IMBD PYR IP TO IMBD AND DISS DK GRY TO DK BRN SH NO FLO NO VIS POR NO VIS SHOW

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

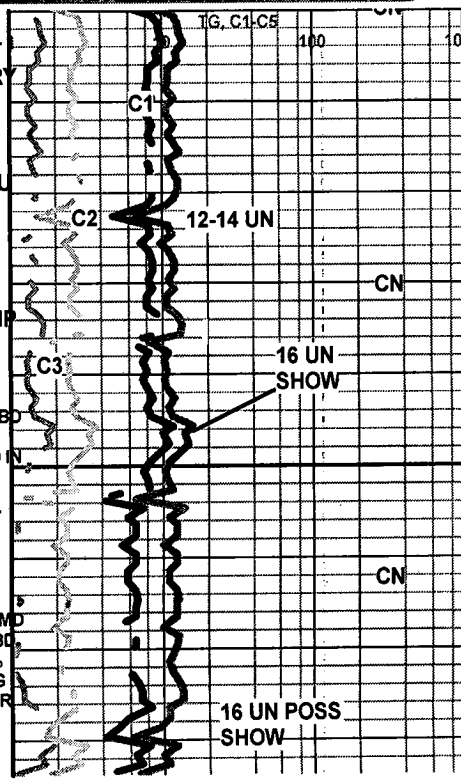
DOUGLAS 3227' -1278'

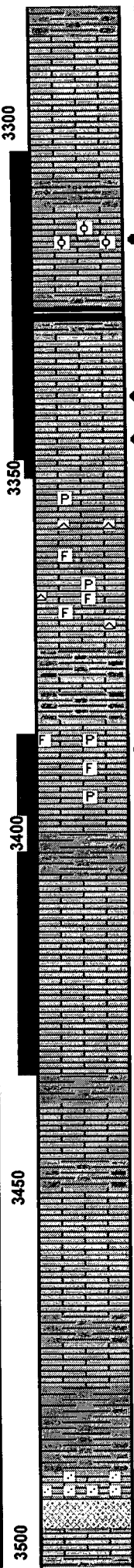
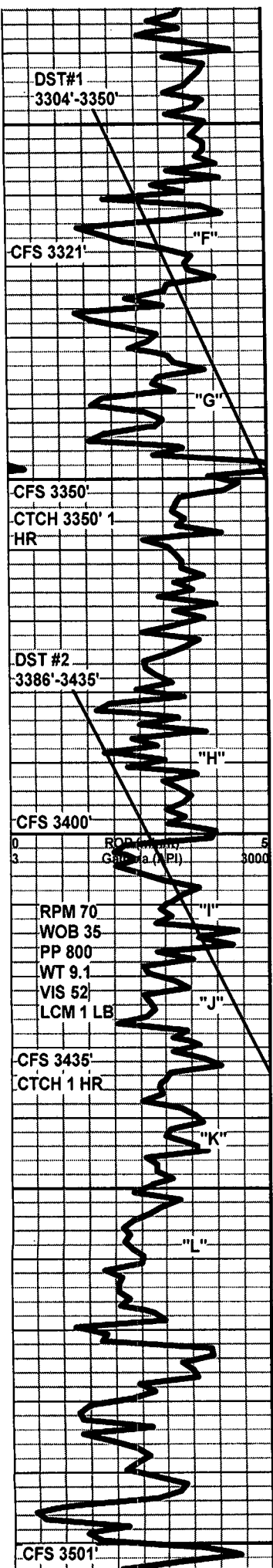
SH DK BRN TO RED/BRN FRM BLKY WITH WAXEY TXT IP TO SLTLY SFT SILTY

LANSING 3246' -1297'

3246'-3249' LS TN LT TN CRM BUF HD DN VFN TO FN XLN MTX TR IMBD QRTZ XLS IP TO IMBD SM CALC XLS TO CALC XLS ON EDGES OF ROCKS FAIR TO GD ODOR THRU STAIN 40% 10% STAIN SATURATED IN ROCK LT TN OIL STAIN IN CALC XLS TR LIVE OIL IN TRAY 60 MIN SAMPLE GLDN YLW FLO 50% TR MICRO PP POR TO FAIR VUG POR WITH CALC XLS IMBD IN VUGS POSS FRAC POOR TO FAIR INSTANT FLUSH CUT TO SPOTTY SLOW MILKY BLUE STREAM CUT TO BRITE GLDN YLW RING CUT SLT TR BRN LEACH ON DISH

3269'-3280' LS LT GRY LT TN CRM BUFF HD TO FRM FN XLN MTX TR M XLN MTX RE-XLN MTX IP IMBD FOSS TR IMBD SM OOLITES IP TR IMBD QRTZ XLS IP SLT TR CHLK IP LT YLW FLO 40% TR LT OIL STAIN 20% FAIR TO GOOD INTER XLN POR PP AND MICRO PP POR TO FAIR VUG POR WITH TR CALC XLS IMBD IN VUGS POSS INTER FOSS POR POOR TO FAIR ODOR LT FLUSH CUT TO FAINT LT YLW RING CUT.





SH DK GRY SMOOTH HRD TO BRITT

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

3312'-3319' LS TN LT TN DUE TO STAIN CRM BUFF FRM BRITT VFN TO FN TO TR MD XLN MTX RE-XLN MTX IMBD SM OOLITES WITH IMBD CALC XLS FAIR TO GOD INTER XLN POR TR VUG POR POOR FAIR TO TR GOOD INTER FOSS POR GLDN YLW FLO THRU STAIN 60% GOOD TO EXCEL ODOR FAIR TO GOOD INSTANT FLUSH CUT TO FAIR STRONG MILKY BLUE STREAM CUT

SH DK GRY SMOOTH HRD BRITT TO BLK CARB SI

3337'-3345' LS CRM BUFF TO OFF WHT HD DN FRM FN XLN MTX IMBD FOSS TR LOOSE QRTZ XLS IN TRAY CALC XLS IP GLDN YLW FLO 80% STAIN 50-60% SLT TR LIVE OIL IN 60 SMPLE GOOD ODOR THRU POOR TO TR FAIR INTER XLN POR TO FAIR SM/MD VUGS PP POR INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CUT

LS LT GY LT TN CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD PYR TO TR IMBD FOSS IP TR LT WHT TO LT GRN CHERT IP NO FLO NO VIS POR NO VIS SHOW

SH DK GRY HD SMOOTH FRM SPLNTY CALC TO LMY

LS LT TN CRM BUFF HD FRM BRITT VFN TO FN XLN MTX RE-XLN MTX RE-XLN MTX IP TR IMBD QRTZ XLS IP TR VRY SM LS GRNS IMB IP STAIN 10% LT YLW FLO 25% POOR TO NO INTER XLN POR TR POOR VUG TO TR PP AND MICRO PP POR IP FAINT ODOR VRY FAINT FLUSH CUT LT YLW RING CUT

SH GRY BRN FRM BLKY CALC TO LMY

3408'-3413' LS CRM BUFF OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX TR CHERT IP LT YLW FLO 20% SLT TR OIL STAIN 5% TR VUGS IP TO TR MICRO PP POR TO NO POR FAINT TO POOR ODOR FAINT FLUSH CUT TO LT YLW RING CUT

3417'-3427' LS LT TN DUE TO STAIN CRM BUFF HD TO FRM VFN TO FN TO TR MD XLN MTX IMBD CALC XLS IN VUGS OOMOLDIC IP SUCRO TXT THRU POOR TO TR FAIR INTER XLN POR POOR VUGS TO TR PP AND MICRO PP POR. LT YLW FLO 40% GLDN YLW FLO 20% STAIN 50% POOR TO FAIR ODOR FAIR INSTANT FLUSH CUT TO SPURTY MILKY BLUE STREAM CUT LT YLW RING CUT

LS CRM BUFF OFF WHT TO WHT HD DN TT CRYPTO TO VVFN XLN MTX DIS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

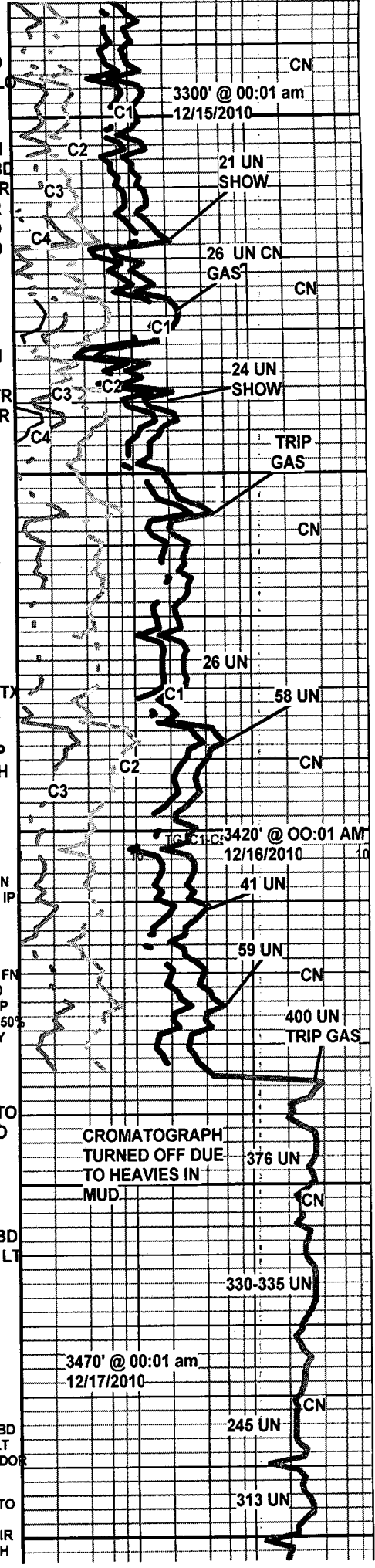
LS DK TN LT TN CRM BUFF TO LT GRY HD DN TT CRYPTO TO VVFN TO FN XLN MTX RE-XLN MTX IP IMBD FOSS SUB-CHLKY IP TR IMBD SM LS GRNS IP SCATT LT YLW FLO NO VIS POR NO VIS SHOW

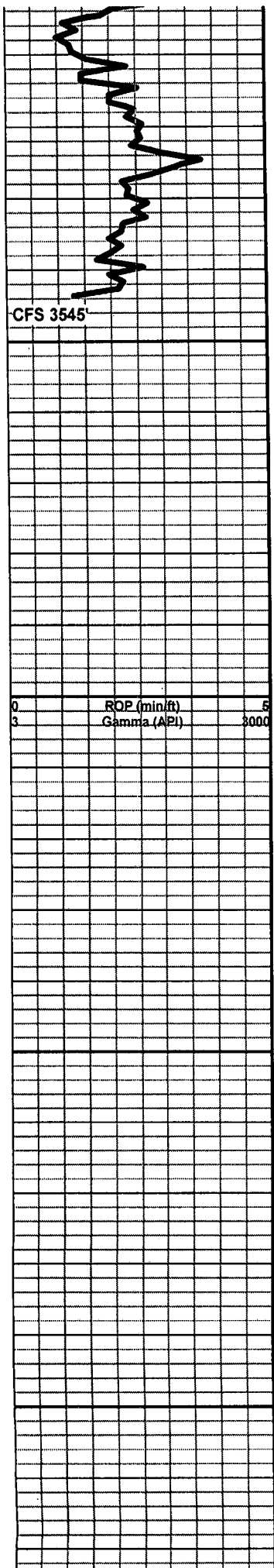
BKC 3478' -1529'

SH GRY DK RN FRM BLKY TO SMOOTH SPLNTY

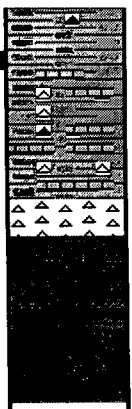
3489'-3494' LS CRM BUFF OFF WHT HD FRM BRITT FN XLN MTX IMBD SUB-RND TO RND SS GRNS TO TR LOOSE QRTZ XLS IN TRAY TR LT OIL STAIN POSS TT INTER XLN TO NO POR LT YLW FLO 30% NO ODOR FAINT FLUSH CUT

3494'-3498' SS TN DUE TO STAIN TO CLR FRSTY WHT FRI VRY SM TO SM TO MD ANG SUB-ANG TO SUB-RND SS GRNS WITH SILICIOUS CMNT FAIR TO GOOD SORT STAIN 95% GLDN FLO THRU POOR FAIR TO GOOD INTER GRAN POR FAIR TO GOOD ODOR INSTANT FLUSH





3550
3600
3650
3700



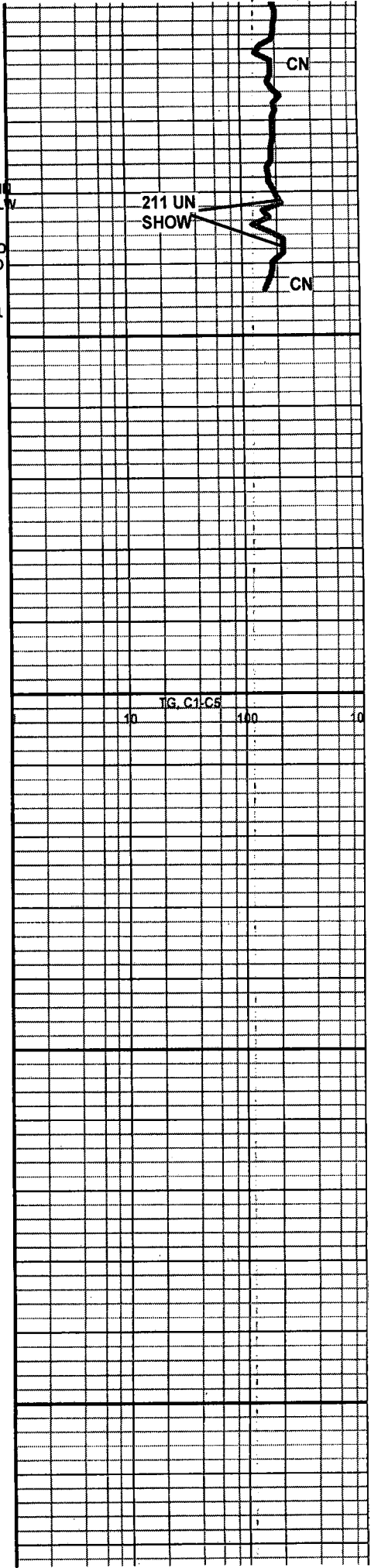
CUT TO SLOW STRONG MILKY BLUE STREAM CUT GLDN YLW RIN
CUT TO BRN LEACH ON DISH

SH RED BRN SLTLY FRM SFT GUMMY WITH OFF WHT TN TO ORNG
CHERT TR LS DK TN TO TN HD DN TT CRYPTO XLN MTX

ARBUCKLE 3527' -1578'

3527'-3533' DOL CRM BUFF OFF WHT HD FRM VFN TO FN XLN MTX
SUCRO TXT WITH VRY SM DOL GRNS IMBD GLDN YLW FLO 50% STAIN
30% FAIR ODOR POSS TT INTER XLN POR FAIR FLUSH CUT GLDN YLW
RING CUT

3533'-3545' DOL CRM BUFF OFF WHT TN DUE TO STAIN LT GRY IP HD
FRM SM TO MD ANG TO SUB-ANG DOL XLS THRU LT GLDN YLW FLO
THRU STAIN 70% LIVE OIL ON ROCKS AND IN TRAY POOR TO FAIR
INTER XLN POR PP AND MICRO PP POR FAIR TO GOOD ODOR
EXCELLENT INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CL
BRN LEACH ON DISH



211 UN
SHOW

CN

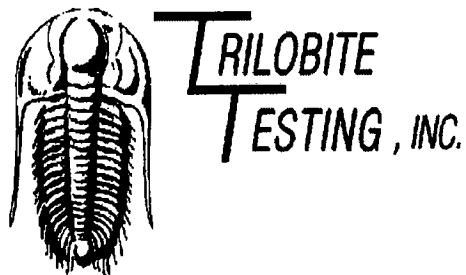
CN

TG, C1-C5

10

100

10



DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste. 700
Denver Co. 80202

ATTN: Clayton Camozzi

7-16s-16w Rush Ks.

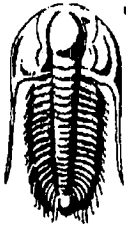
Stramel #1-7

Start Date: 2010.12.15 @ 09:29:22

End Date: 2010.12.15 @ 16:46:37

Job Ticket #: 039292 DST #: 1

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.
 1515 Wynkoop St. Ste. 700
 Denver Co. 80202
 ATTN: Clayton Camozzi

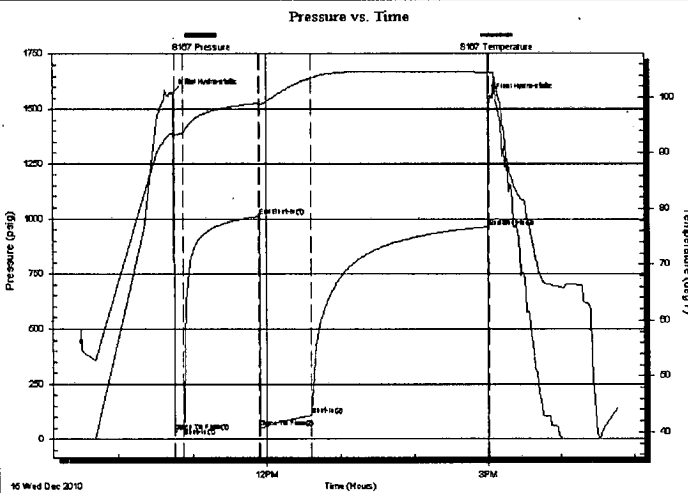
Stramel #1-7
7-16s-16w Rush Ks.
 Job Ticket: 039292 **DST#: 1**
 Test Start: 2010.12.15 @ 09:29:22

GENERAL INFORMATION:

Formation: **Lans.F - G**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: 10:45:52
 Tester: **Gary Pevoteaux**
 Time Test Ended: 16:46:37
 Unit No: **39**
 Interval: **3304.00 ft (KB) To 3350.00 ft (KB) (TVD)**
 Reference Elevations: **1949.00 ft (KB)**
 Total Depth: **3350.00 ft (KB) (TVD)**
1942.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **7.00 ft**

Serial #: 8167 **Inside**
 Press@RunDepth: **108.43 psig @ 3305.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.12.15** End Date: **2010.12.15** Last Calib.: **2010.12.15**
 Start Time: **09:29:27** End Time: **16:46:36** Time On Btm: **2010.12.15 @ 10:43:52**
 Time Off Btm: **2010.12.15 @ 15:02:07**

TEST COMMENT: IF: Strong blow . B.O.B. in 5 mins.
 IS: No blow .
 FF: Strong blow . B.O.B. in 13 mins.
 FS: Weak blow . 1/2 - 1 1/2".



PRESSURE SUMMARY

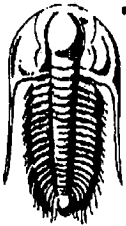
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.97	93.56	Initial Hydro-static
2	36.72	93.27	Open To Flow (1)
9	55.28	93.69	Shut-In(1)
70	1011.21	99.00	End Shut-In(1)
71	53.98	98.84	Open To Flow (2)
112	108.43	103.44	Shut-In(2)
257	963.33	104.51	End Shut-In(2)
259	1553.66	104.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	205 ft.of GIP	0.00
80.00	GOCM 15%g 25%o 60%m	1.12
110.00	MW /w o specs. 18%m 82%w	1.54
0.00	RW .12 ohms@ 43 deg.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039292

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.12.15 @ 09:29:22

GENERAL INFORMATION:

Formation: **Lans.F - G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:45:52

Time Test Ended: 16:46:37

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3304.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Total Depth: 3350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1949.00 ft (KB)

1942.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8370 Outside

Press@RunDepth: psig @ 3305.00 ft (KB)

Start Date: 2010.12.15

End Date:

2010.12.15

Capacity: 8000.00 psig

Last Calib.: 2010.12.15

Start Time: 09:26:19

End Time:

16:44:28

Time On Btm:

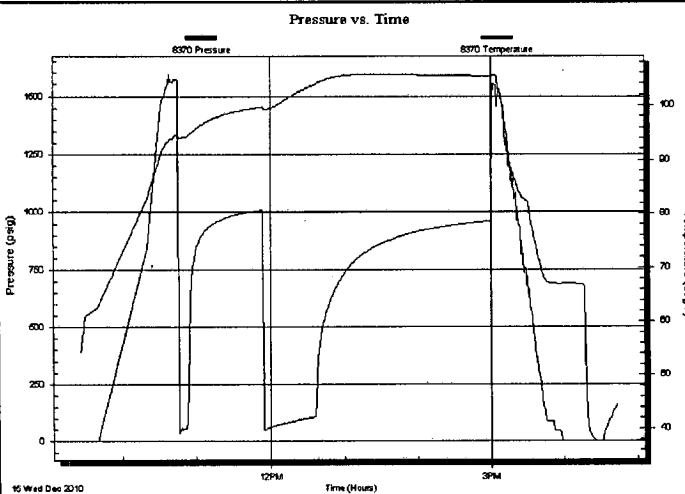
Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 5 mins.

IS: No blow .

FF: Strong blow . B.O.B. in 13 mins.

FSI: Weak blow . 1/2 - 1 1/2".



PRESSURE SUMMARY

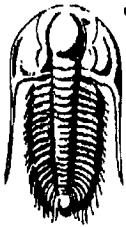
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	205 ft. of GIP	0.00
80.00	GOCM 15%g 25%o 60%m	1.12
110.00	MW /w o specs. 18%m 82%w	1.54
0.00	RW .12 ohms@ 43 deg.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039292

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.12.15 @ 09:29:22

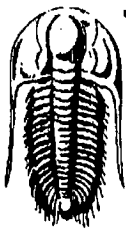
Tool Information

Drill Pipe:	Length: 3292.00 ft	Diameter: 3.80 inches	Volume: 46.18 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3304.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3275.00	
Shut in tool	5.00			3280.00	
Sampler	2.00			3282.00	
HMV	5.00			3287.00	
Jars	5.00			3292.00	
Safety Joint	3.00			3295.00	
Packer	4.00			3299.00	30.00 Bottom Of Top Packer
Packer	5.00			3304.00	
Stubb	1.00			3305.00	
Recorder	0.00	8167	Inside	3305.00	
Recorder	0.00	8370	Outside	3305.00	
Perforations	40.00			3345.00	
Bullnose	5.00			3350.00	46.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039292

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2010.12.15 @ 09:29:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 0.00 ohm.m

Salinity: 4600.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 119000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	205 ft.of GIP	0.000
80.00	GOCM 15%g 25%o 60%m	1.122
110.00	MW /w o specs. 18%m 82%w	1.543
0.00	RW .12 ohms@ 43 deg.	0.000

Total Length: 190.00 ft Total Volume: 2.665 bbl

Num Fluid Samples: 0

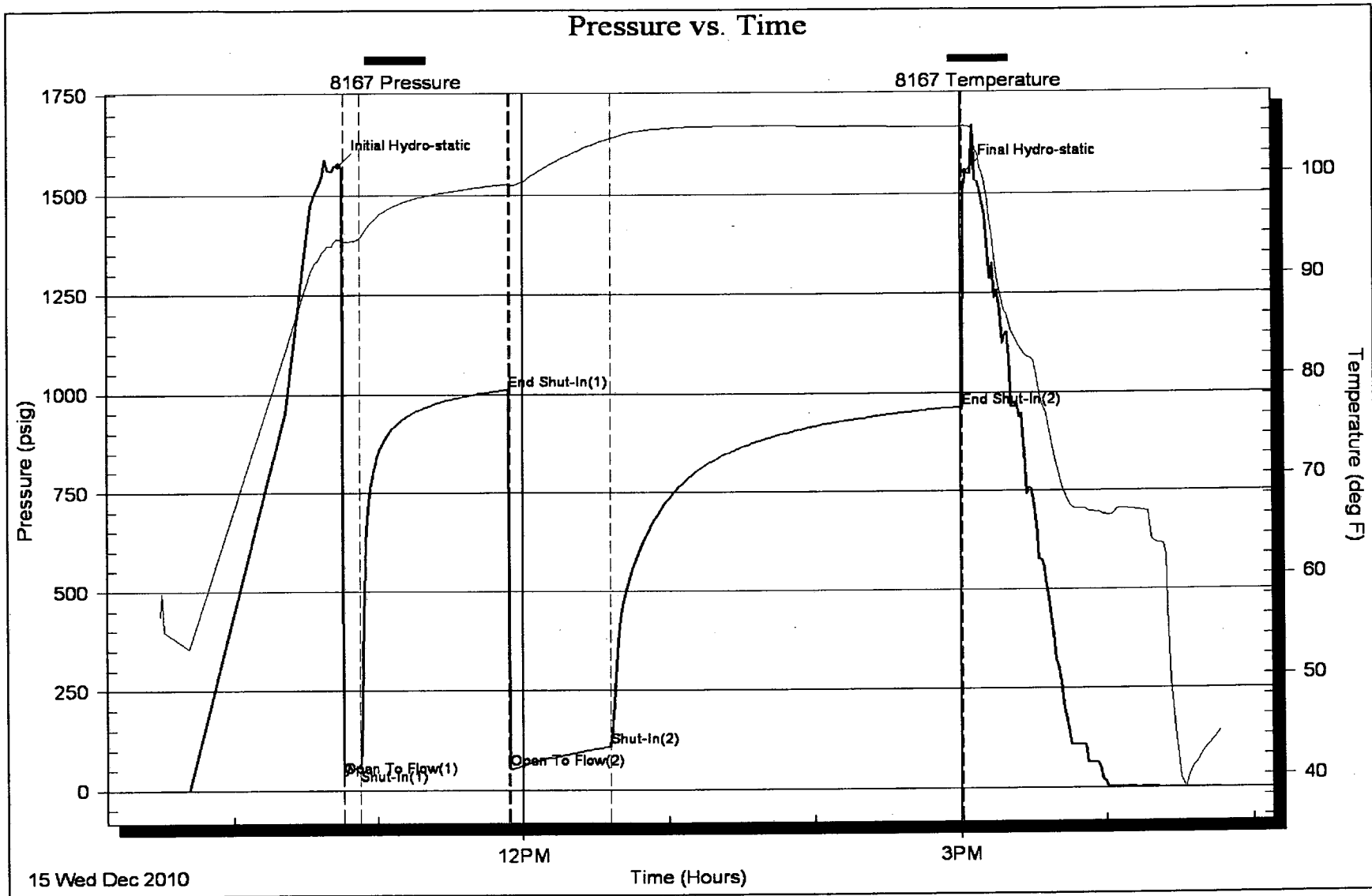
Num Gas Bombs: 0

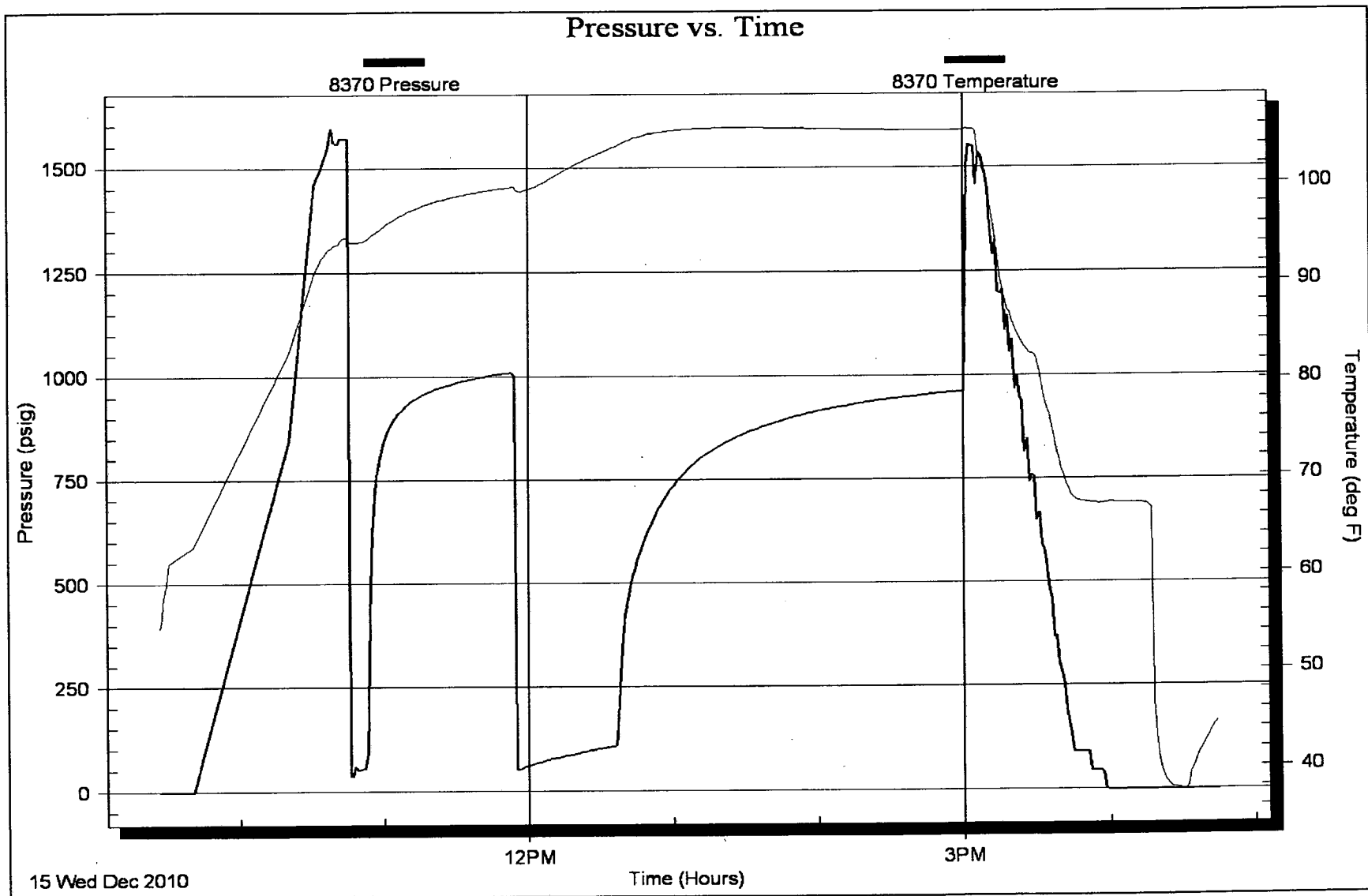
Serial #: none

Laboratory Name:

Laboratory Location:

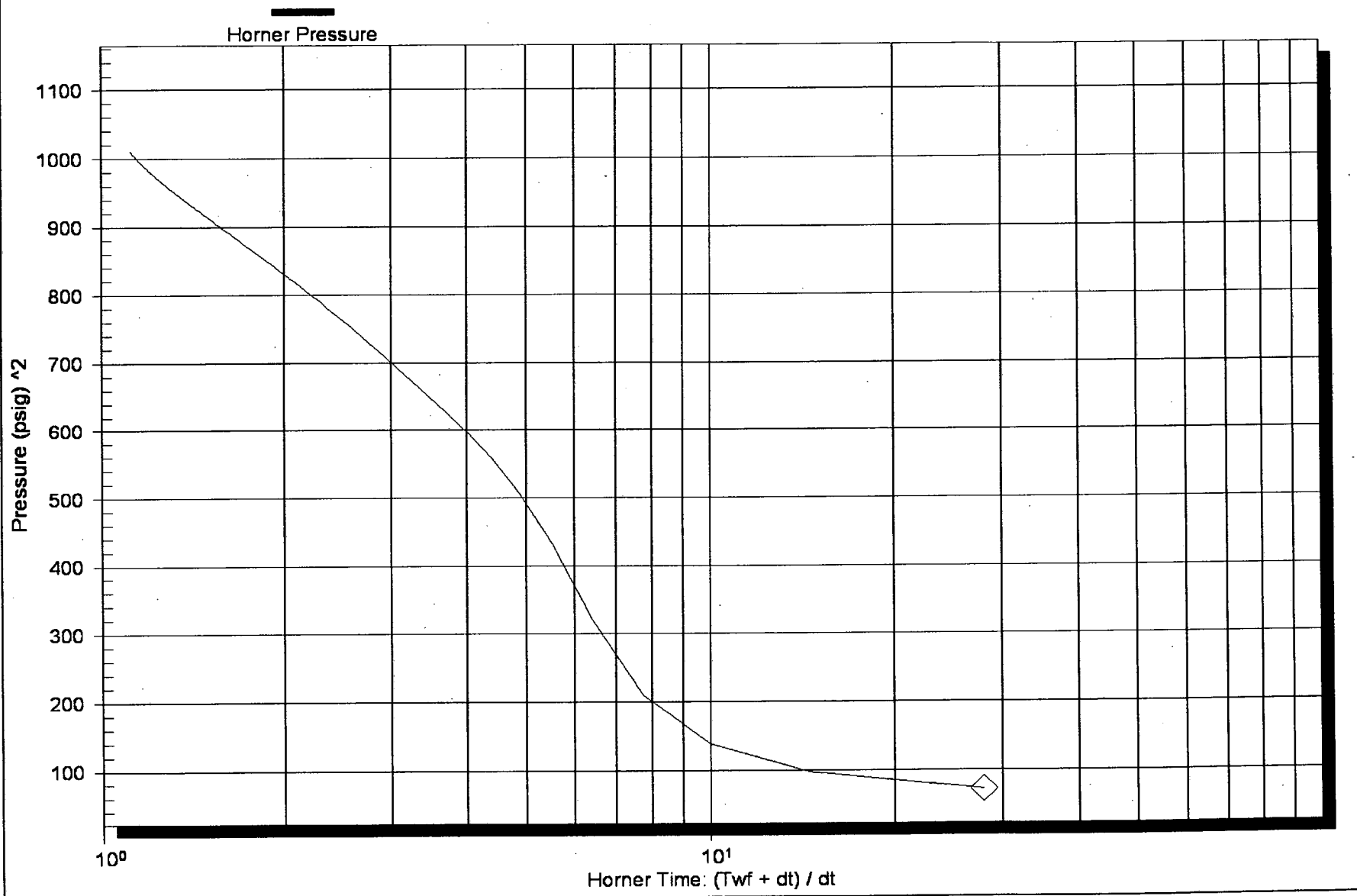
Recovery Comments: SAMPLER DATA: Trace of gas, trace of mud, 460 ML of oil,
1840 ML of water @ 96 psi.





15 Wed Dec 2010

Homer Plot

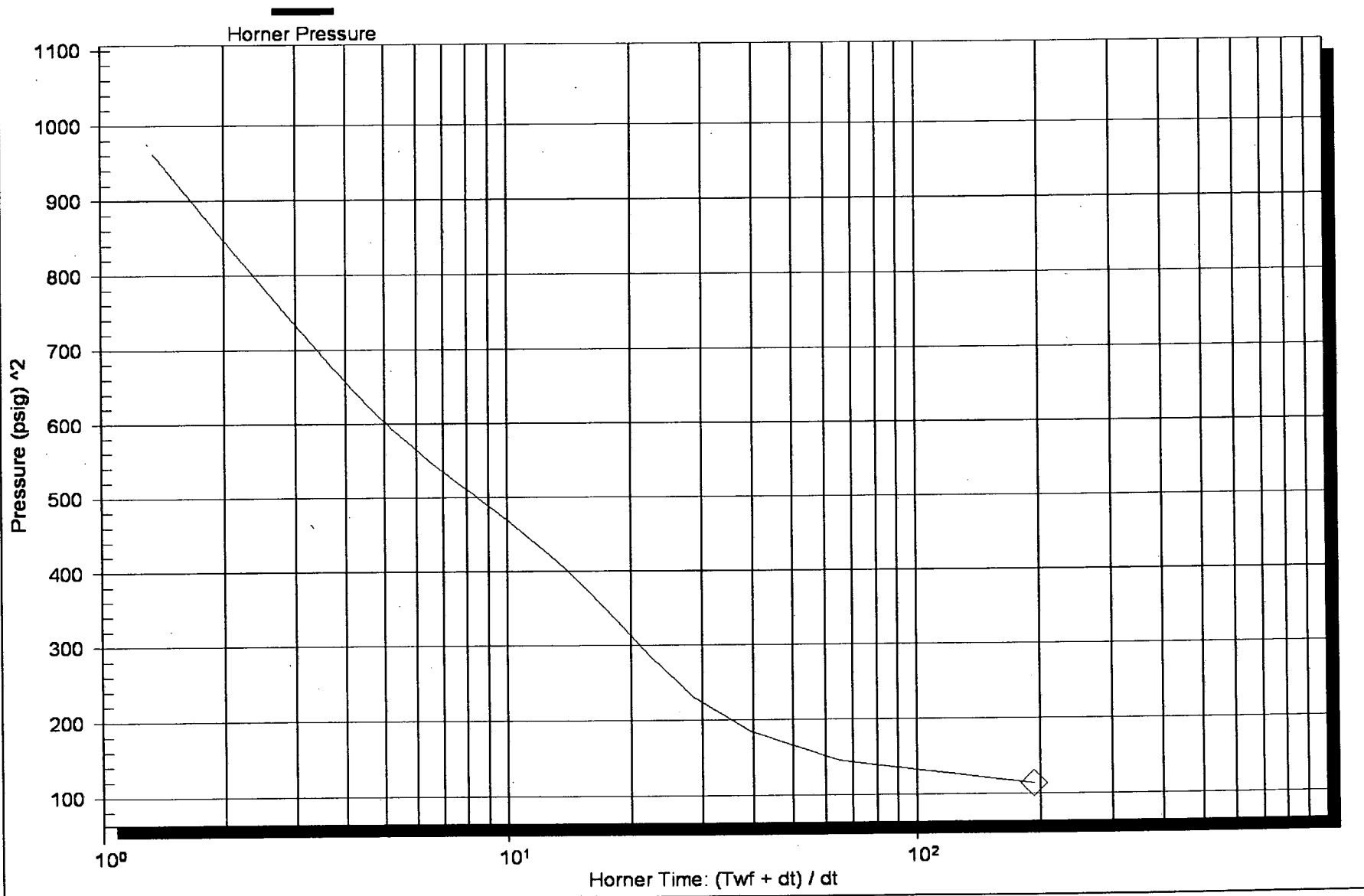


Serial Number: 8167- (Inside)

P*: Slope (m): kpa/log cycle

Flow Cycle: 1

Horner Plot

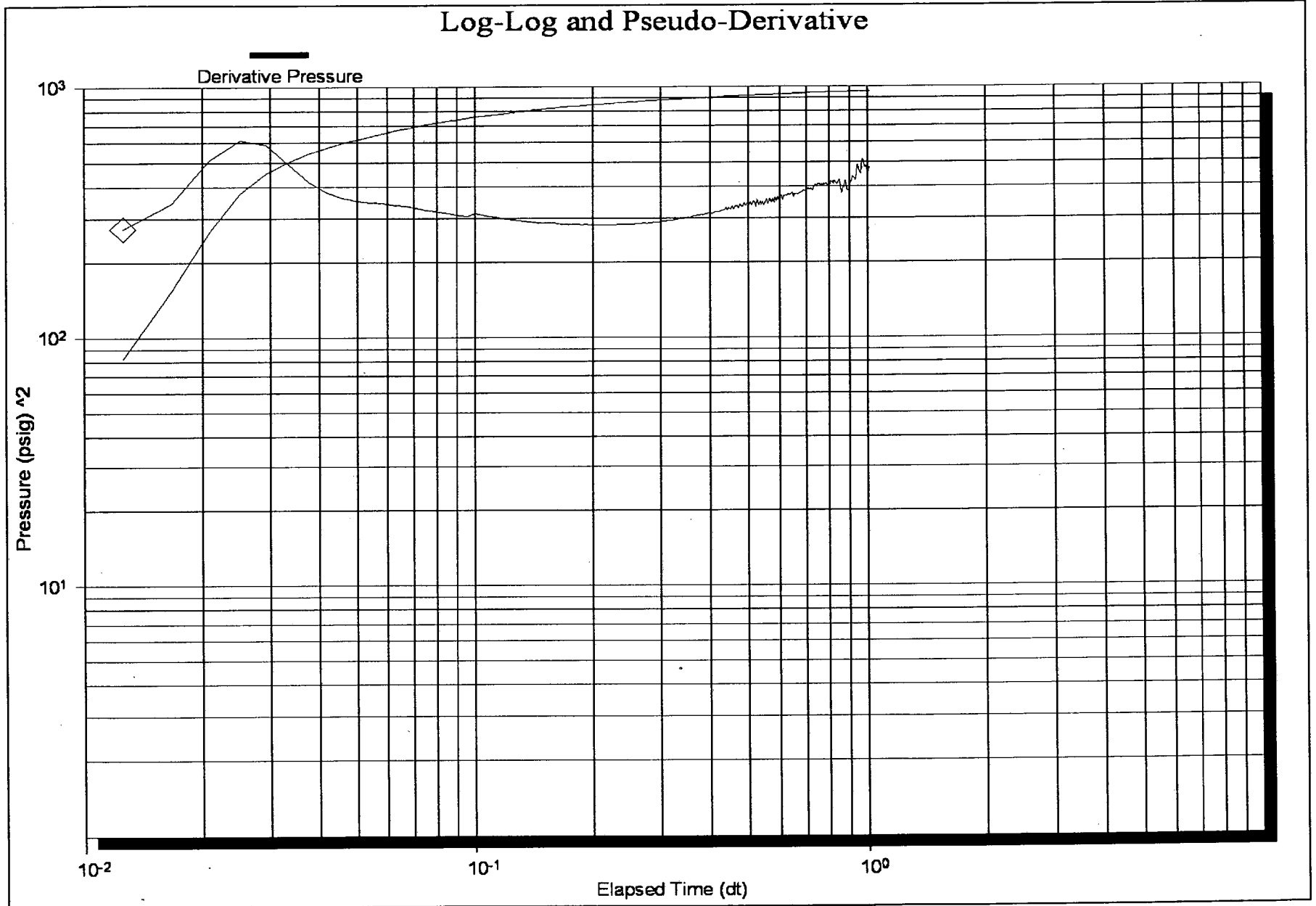


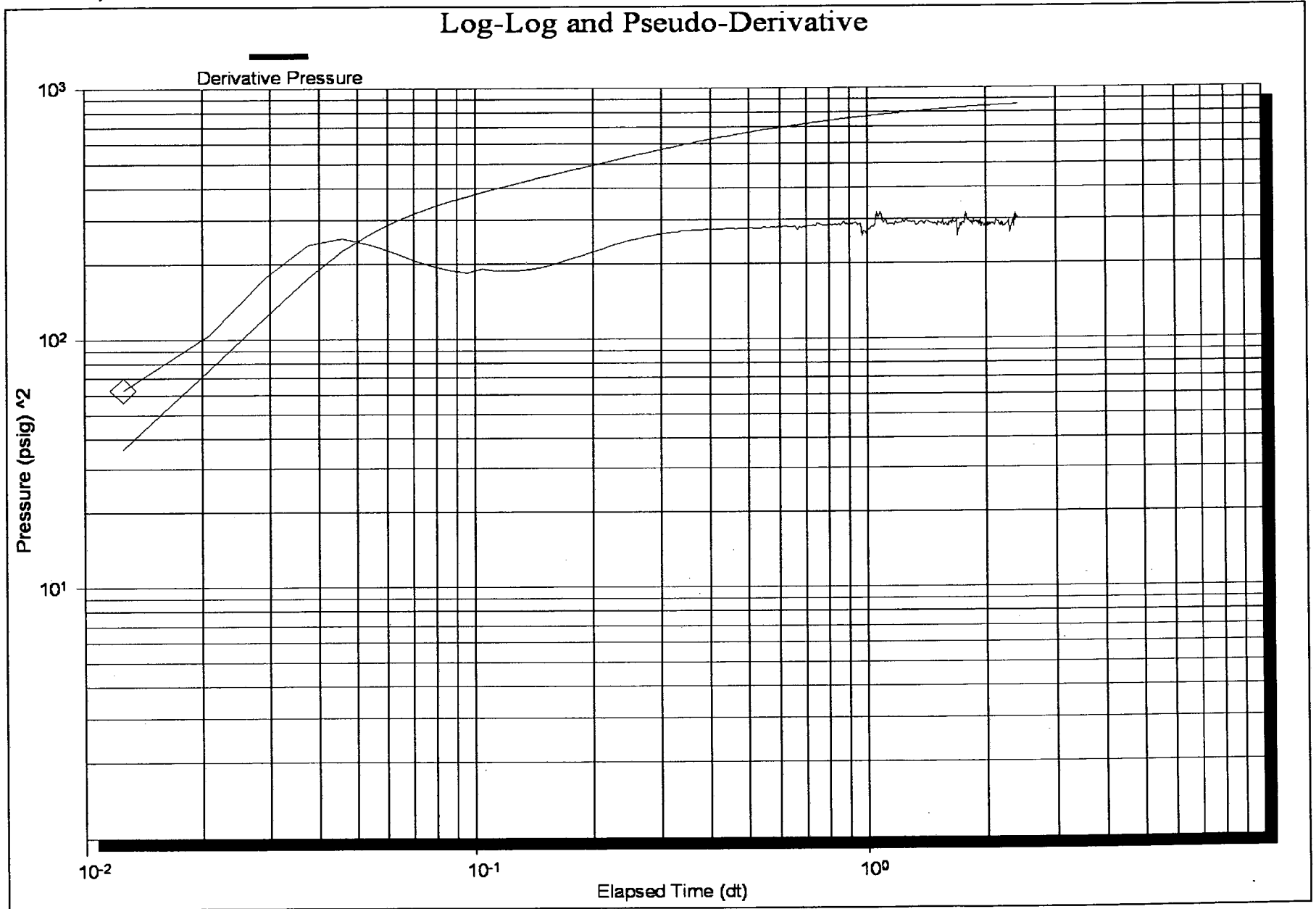
Serial Number: 8167 (Inside)

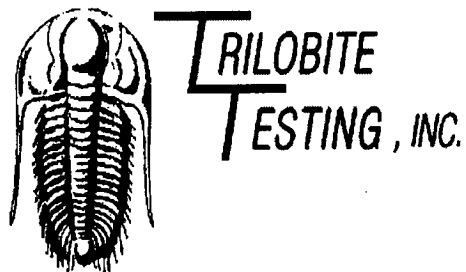
P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2







DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste. 700
Denver Co. 80202

ATTN: Clayton Camozzi

7-16s-16w Rush Ks.

Stramel #1-7

Start Date: 2010.12.16 @ 03:25:47

End Date: 2010.12.16 @ 12:35:32

Job Ticket #: 039293 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.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039293

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.12.16 @ 03:25:47

GENERAL INFORMATION:

Formation: **Lans.**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 05:01:02

Time Test Ended: 12:35:32

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Interval: **3386.00 ft (KB) To 3435.00 ft (KB) (TVD)**

Total Depth: **3435.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1949.00 ft (KB)**

1942.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8167 **Inside**

Press@RunDepth: **186.82 psig @ 3387.00 ft (KB)**

Start Date: **2010.12.16**

End Date:

2010.12.16

Start Time: **03:25:52**

End Time:

12:35:32

Capacity: **8000.00 psig**

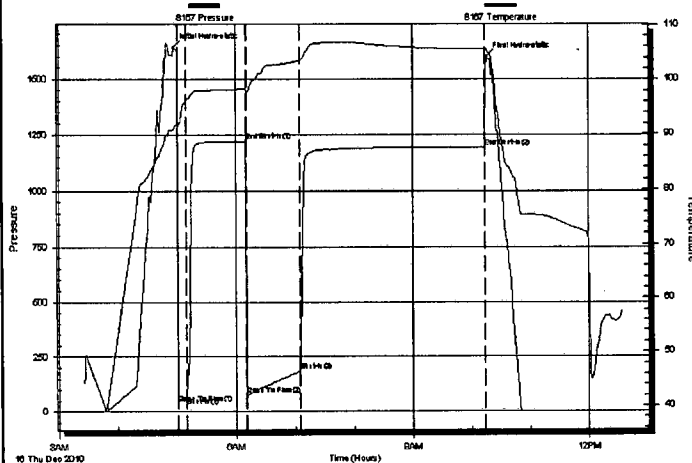
Last Calib.: **2010.12.16**

Time On Btm: **2010.12.16 @ 04:57:02**

Time Off Btm: **2010.12.16 @ 10:15:47**

TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins.
IS: Weak blow . 1/2".
FF: Strong blow . B.O.B. in 20 secs.
FS: Strong blow . GTS w hile bleeding off. Vent FSIP.

Pressure vs. Time



PRESSURE SUMMARY

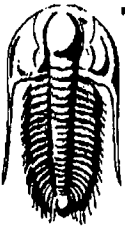
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.87	90.84	Initial Hydro-static
4	41.42	91.44	Open To Flow (1)
13	67.36	96.00	Shut-In(1)
73	1221.84	98.30	End Shut-In(1)
74	80.22	97.86	Open To Flow (2)
128	186.82	103.54	Shut-In(2)
317	1194.86	105.47	End Shut-In(2)
319	1597.25	105.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	GOCM 30%g 27%o 43%m	3.51
60.00	CGO 41%g 59%o	0.84
125.00	GOCM 27%g 33%o 40%m	1.75
0.00	Gas in all fluid free pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

1515 Wynkoop St. Ste. 700
Denver Co. 80202

ATTN: Clayton Camozzi

Stramel #1-7

7-16s-16w Rush Ks.

Job Ticket: 039293

DST#: 2

Test Start: 2010.12.16 @ 03:25:47

GENERAL INFORMATION:

Formation: **Lans.**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:01:02

Time Test Ended: 12:35:32

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Interval: **3386.00 ft (KB) To 3435.00 ft (KB) (TVD)**

Total Depth: **3435.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1949.00 ft (KB)**

1942.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8646

Fluid

Press@RunDepth: **psig @ 3356.00 ft (KB)**

Start Date: **2010.12.16**

End Date: **2010.12.16**

Capacity: **8000.00 psig**

Last Calib.: **2010.12.16**

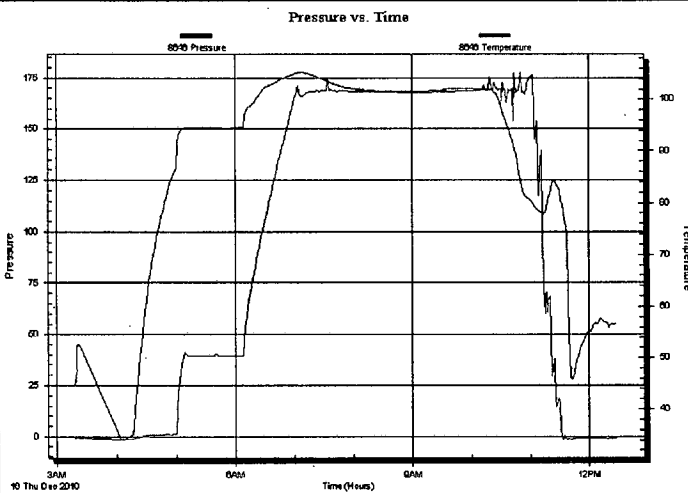
Start Time: **03:18:16**

End Time: **12:29:26**

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 2 mins.
IS: Weak blow . 1/2".
FF: Strong blow . B.O.B. in 20 secs.
FS: Strong blow . GTS w hile bleeding off. Vent FSIP.



PRESSURE SUMMARY

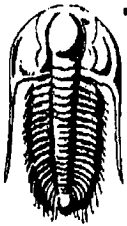
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
250.00	GOCM 30%g 27%o 43%m	3.51
60.00	CGO 41%g 59%o	0.84
125.00	GOCM 27%g 33%o 40%m	1.75
0.00	Gas in all fluid free pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039293

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.12.16 @ 03:25:47

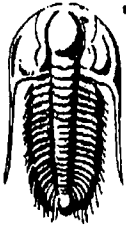
Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 47.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3386.00 ft			Final 47500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8646	Fluid	3356.00	
C.O. Sub	1.00			3357.00	
Shut in tool	5.00			3362.00	
Sampler	2.00			3364.00	
HMV	5.00			3369.00	
Jars	5.00			3374.00	
Safety Joint	3.00			3377.00	
Packer	4.00			3381.00	30.00 Bottom Of Top Packer
Packer	5.00			3386.00	
Stubb	1.00			3387.00	
Recorder	0.00	8167	Inside	3387.00	
Recorder	0.00	8370	Outside	3387.00	
Perforations	43.00			3430.00	
Bullnose	5.00			3435.00	49.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039293

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2010.12.16 @ 03:25:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	GOCM 30%g 27%o 43%m	3.507
60.00	CGO 41%g 59%o	0.842
125.00	GOCM 27%g 33%o 40%m	1.753
0.00	Gas in all fluid free pipe	0.000

Total Length: 435.00 ft

Total Volume: 6.102 bbl

Num Fluid Samples: 0

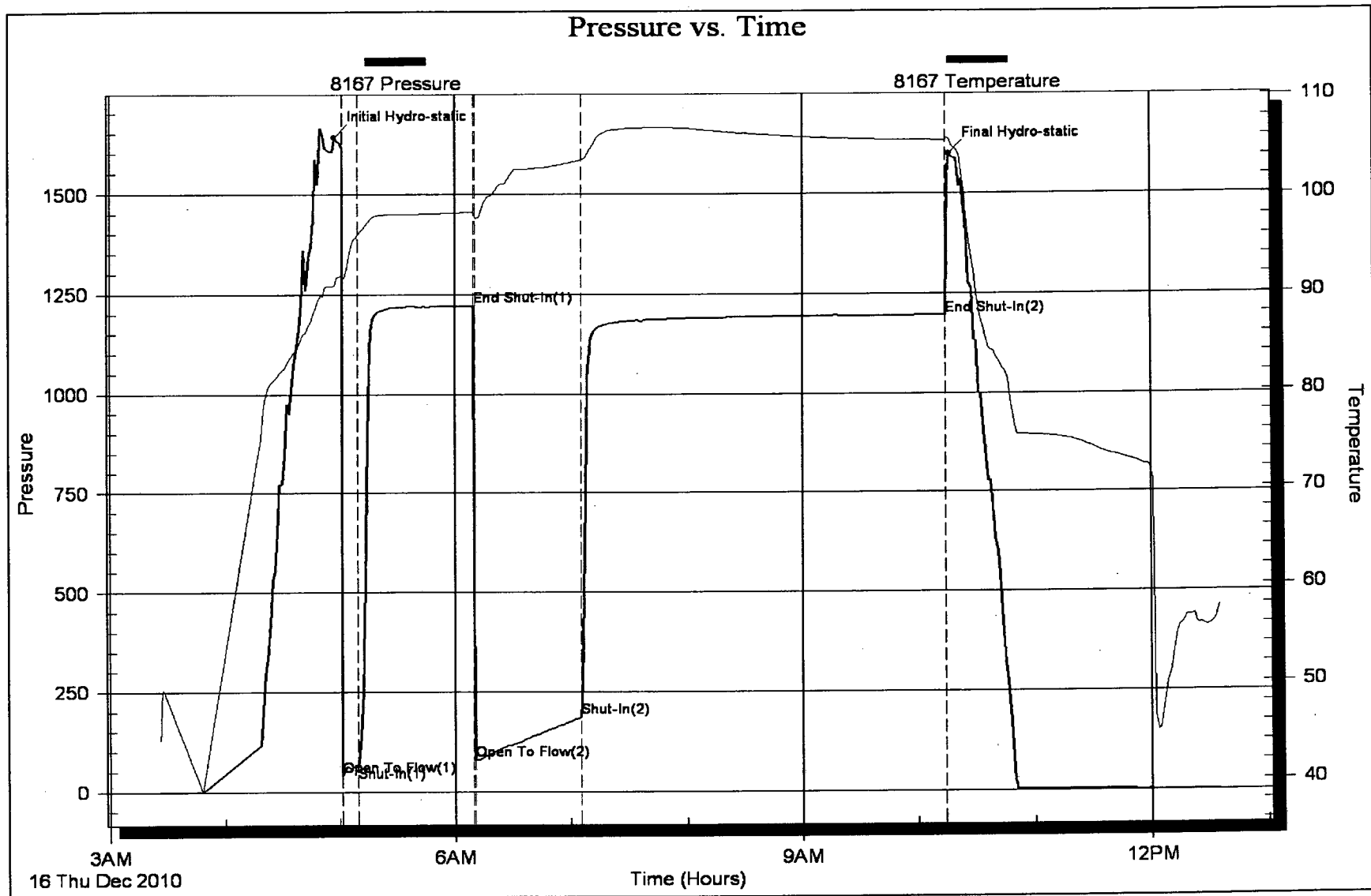
Num Gas Bombs: 0

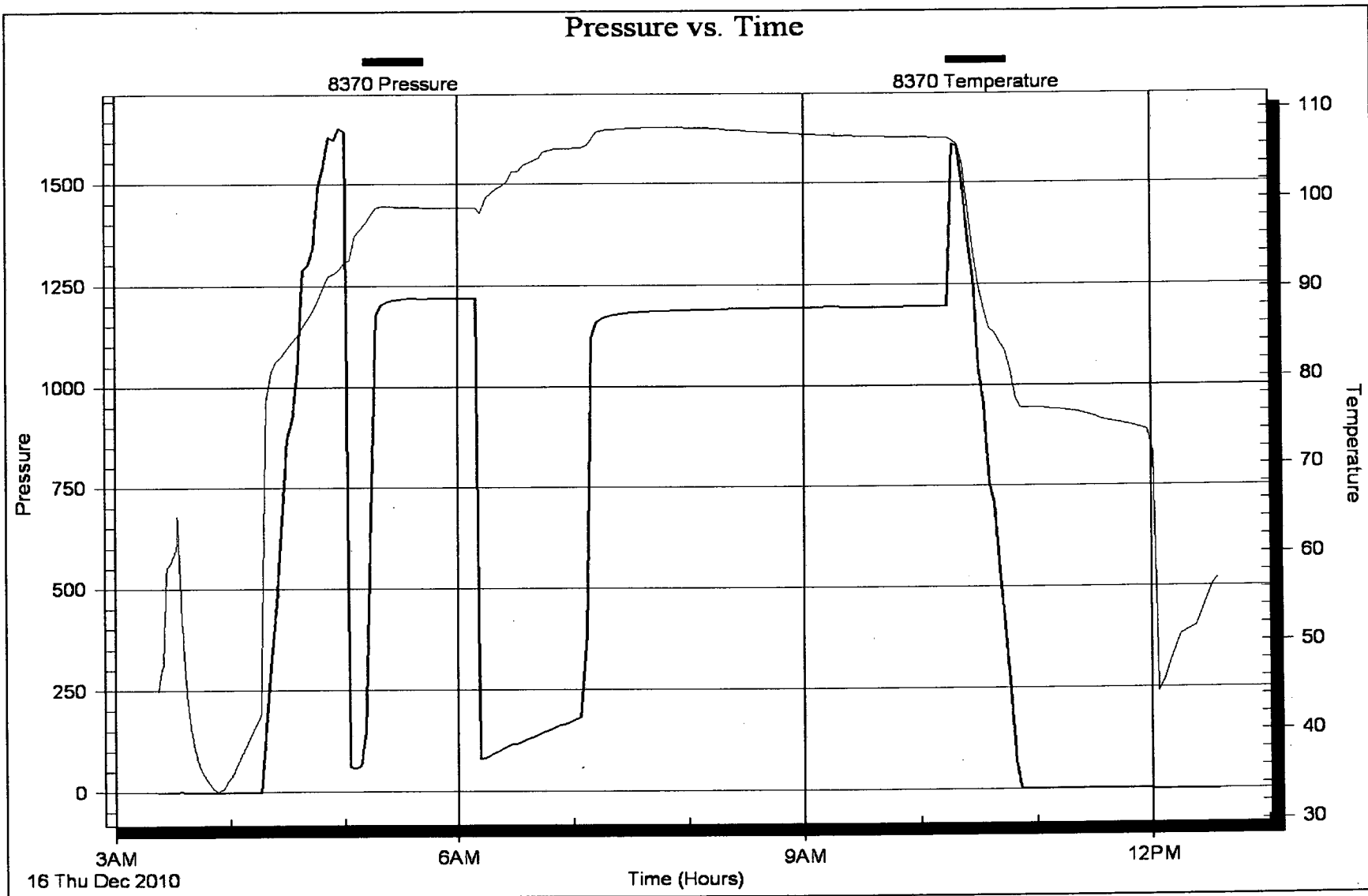
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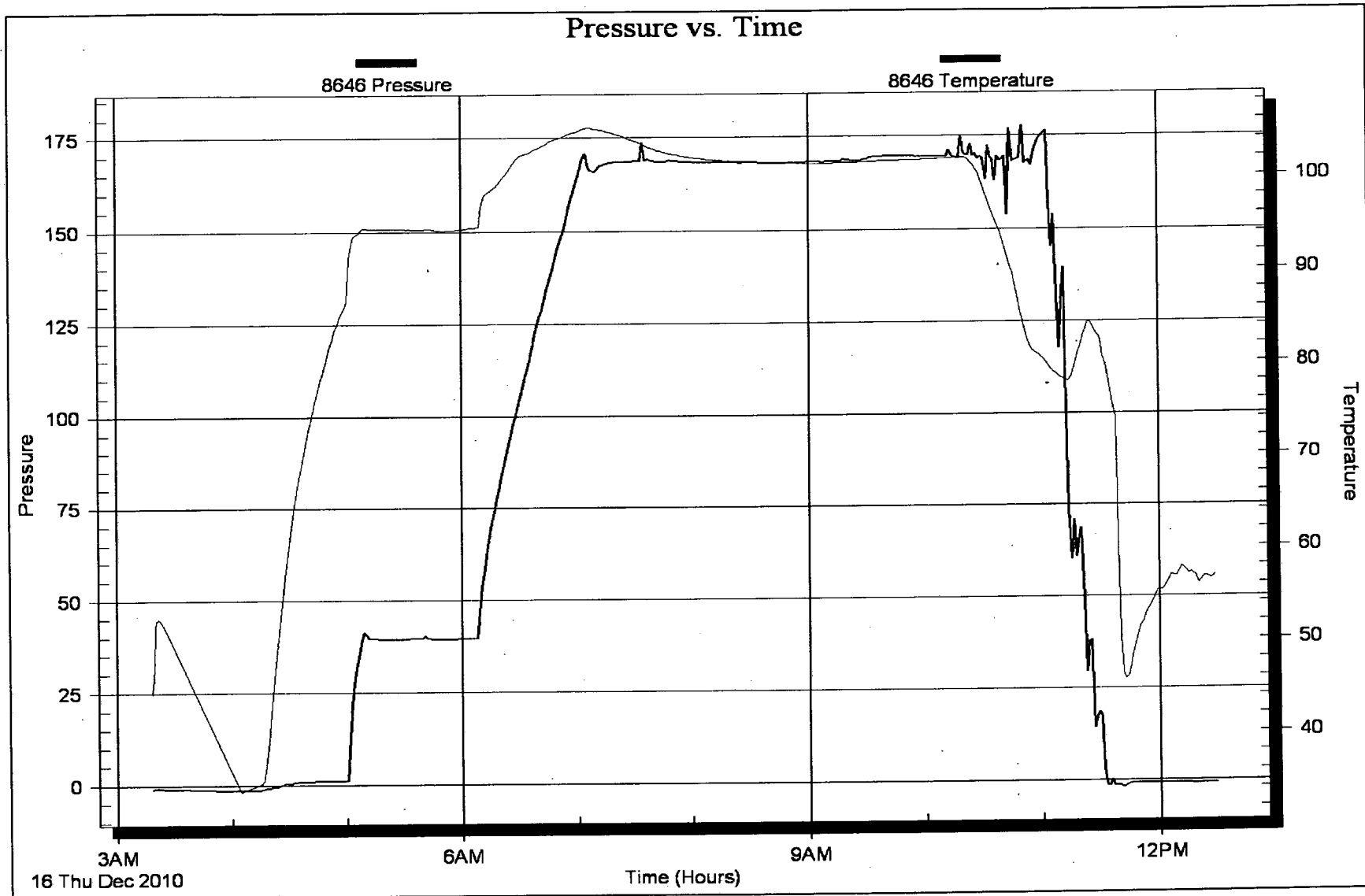
Laboratory Name:

Laboratory Location:

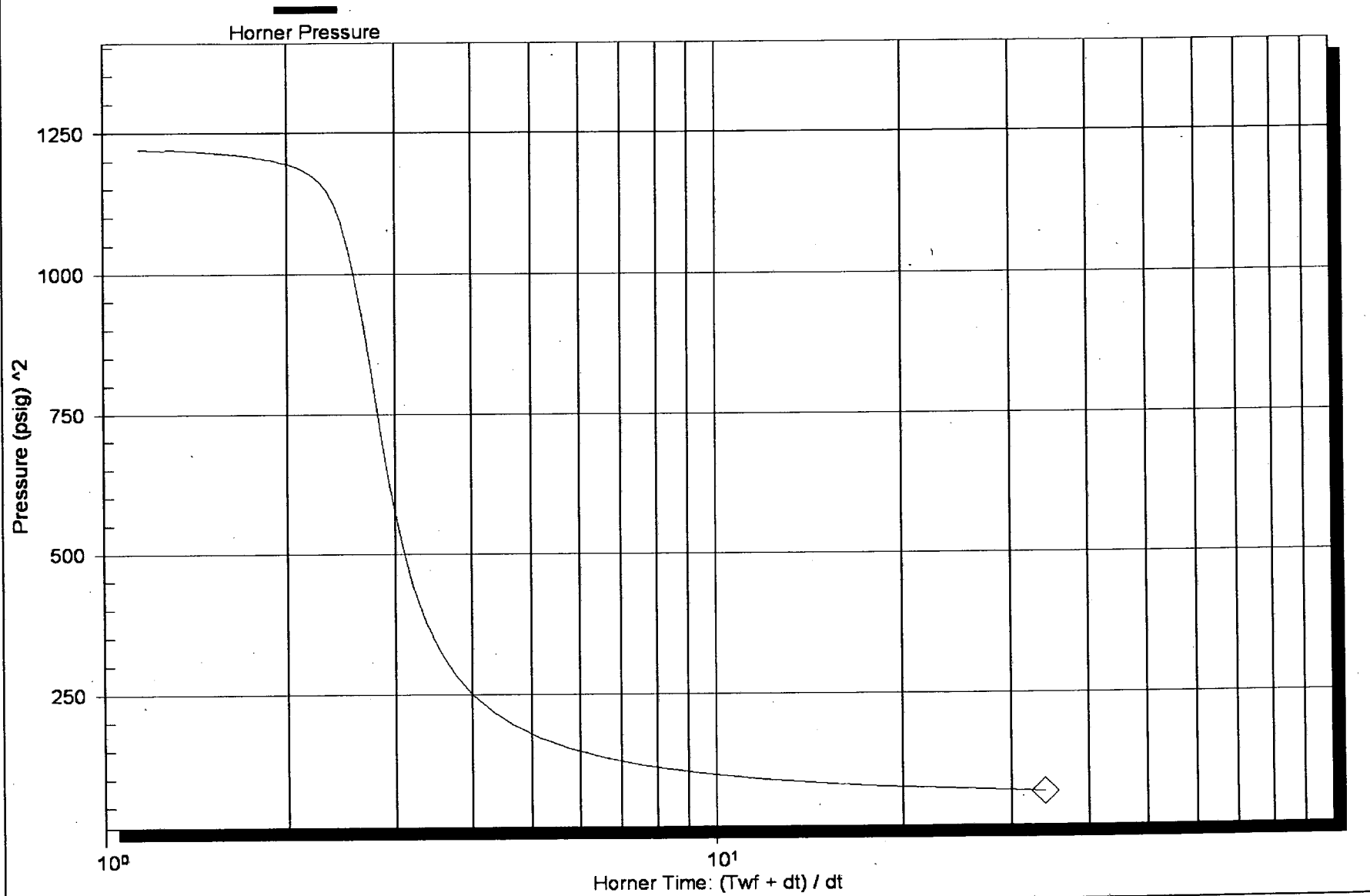
Recovery Comments:







Horner Plot



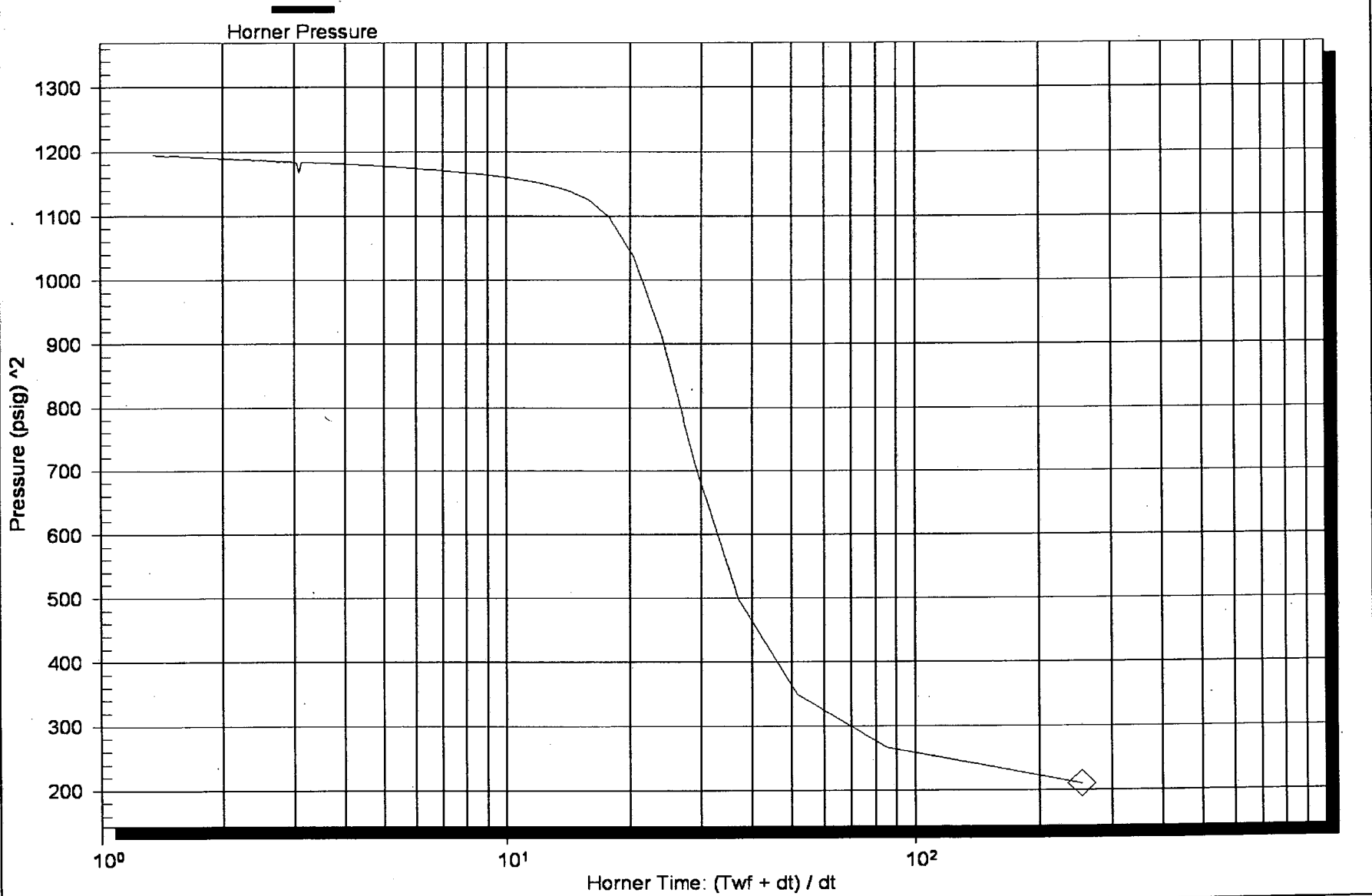
Serial Number: 8167 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



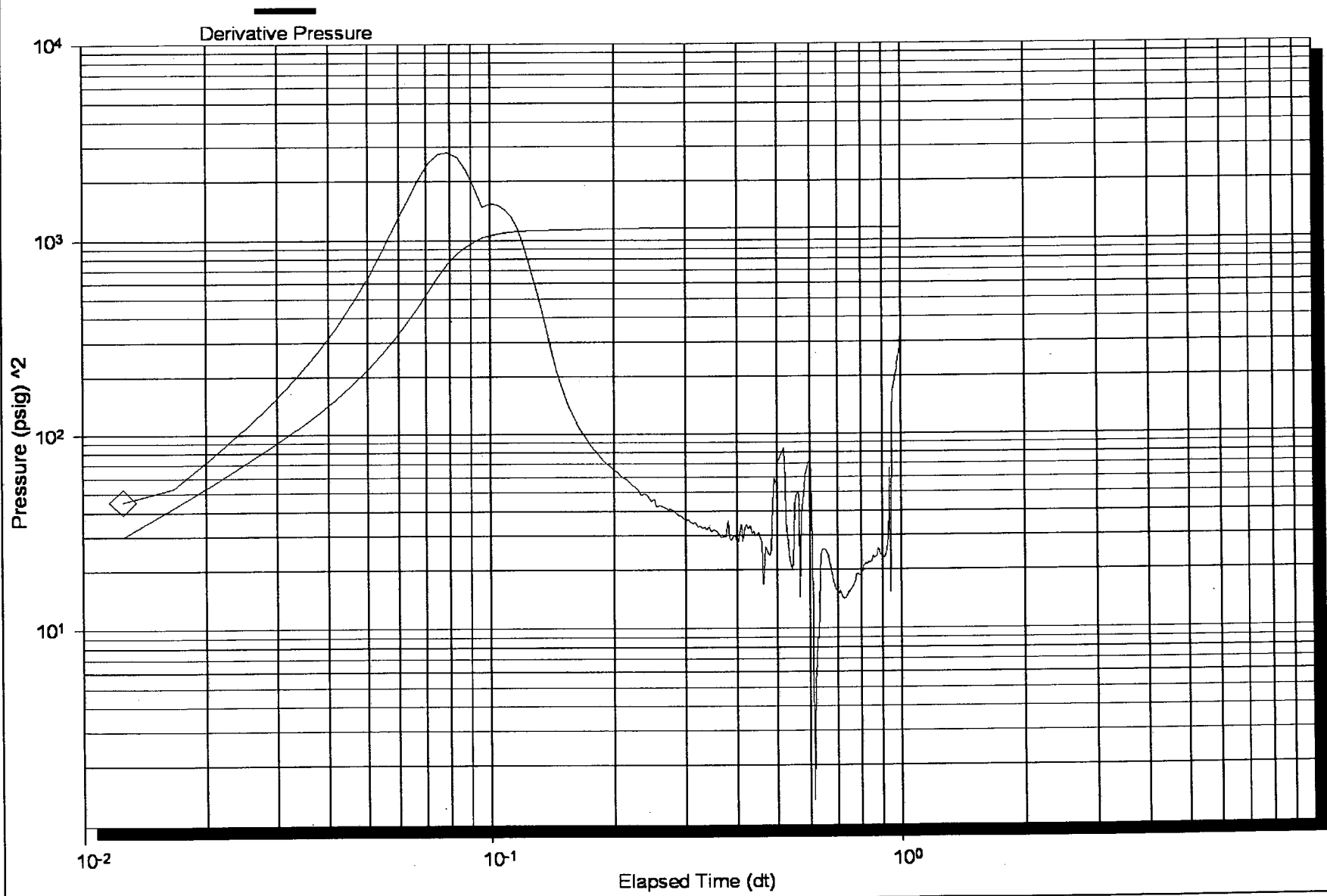
Serial Number: 8167 (Inside)

P* :

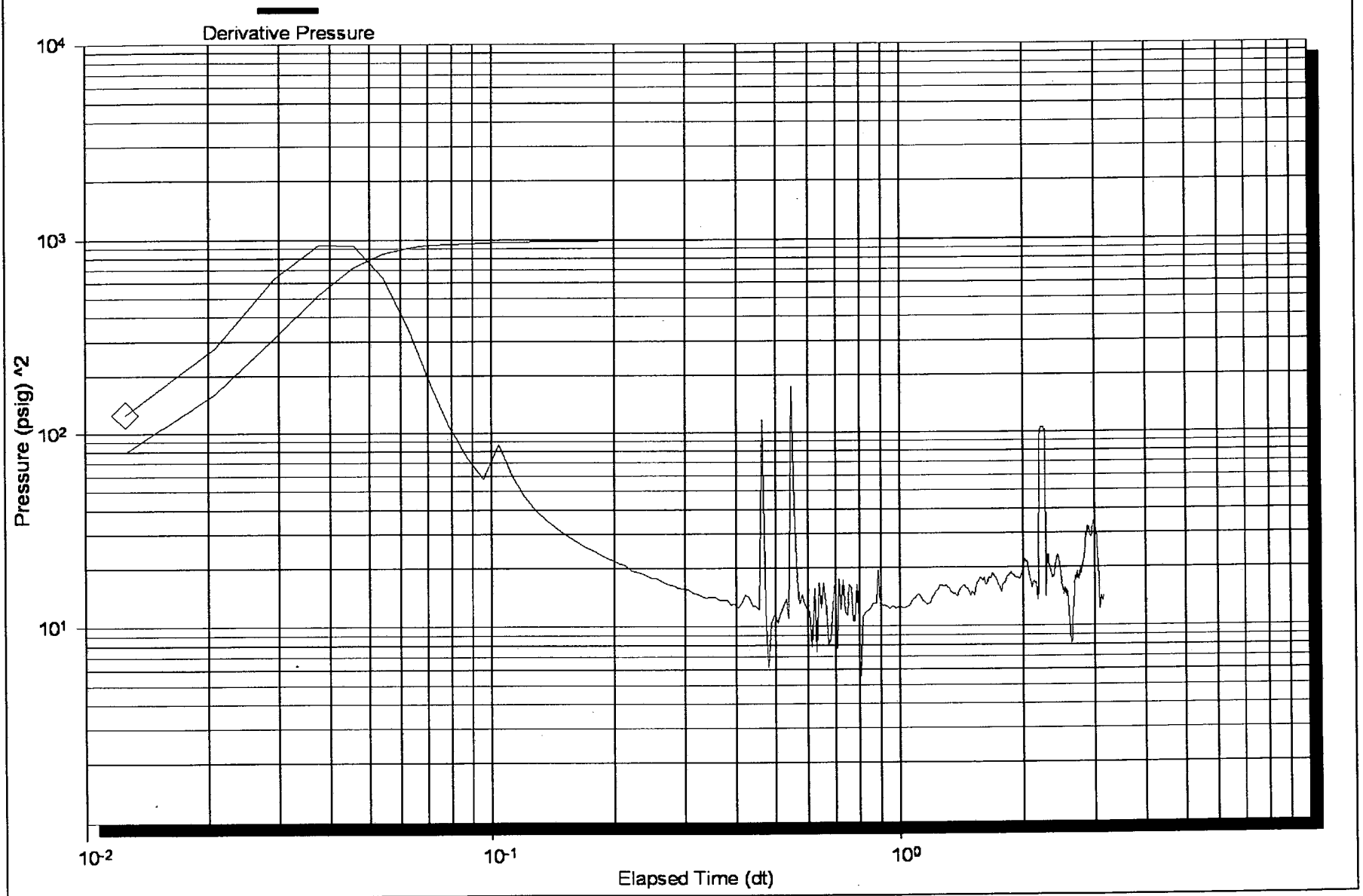
Slope (m) : kpa/log cycle

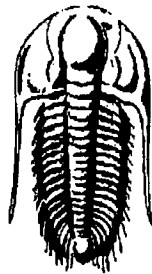
Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste. 700
Denver Co. 80202

ATTN: Clayton Camozzi

7-16s-16w Rush Ks.

Stramel #1-7

Start Date: 2010.12.17 @ 06:57:23

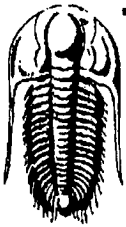
End Date: 2010.12.17 @ 14:49:23

Job Ticket #: 039294 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

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039294

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.12.17 @ 06:57:23

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:38:38

Time Test Ended: 14:49:23

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3531.00 ft (KB) To 3545.00 ft (KB) (TVD)**

Reference Elevations: 1949.00 ft (KB)

Total Depth: 3545.00 ft (KB) (TVD)

1942.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8167 Inside

Press@RunDepth: 1164.25 psig @ 3532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.17

End Date:

2010.12.17

Last Calib.: 2010.12.17

Start Time: 06:57:28

End Time:

14:49:22

Time On Btm: 2010.12.17 @ 08:36:23

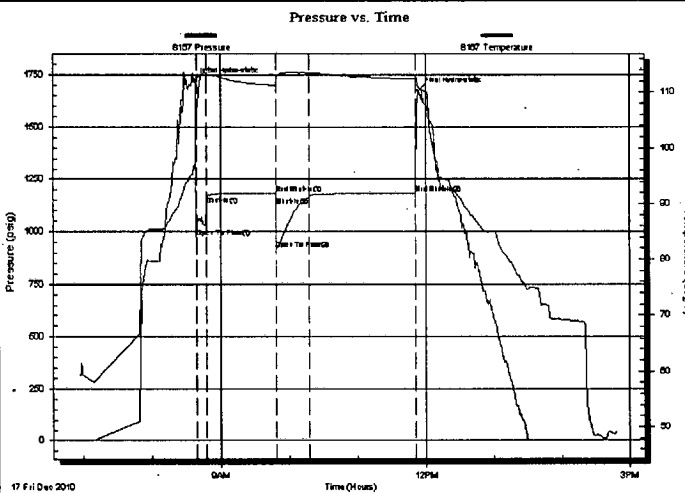
Time Off Btm: 2010.12.17 @ 11:53:08

TEST COMMENT: IF: Strong blow . B.O.B. in 30 secs.

IS: Weak blow . 3/4".

FF: Strong blow . B.O.B. in 20 secs.

FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.74	96.69	Initial Hydro-static
3	975.39	97.60	Open To Flow (1)
11	1126.61	113.41	Shut-In(1)
72	1183.78	111.27	End Shut-In(1)
72	916.72	111.23	Open To Flow (2)
101	1164.25	113.52	Shut-In(2)
195	1183.62	112.44	End Shut-In(2)
197	1675.35	110.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MW 16% m 84% w	3.09
2970.00	SW /Rw .28ohms@51 deg.	41.66

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

1515 Wynkoop St. Ste. 700
Denver Co. 80202

ATTN: Clayton Camozzi

Stramel #1-7

7-16s-16w Rush Ks.

Job Ticket: 039294

DST#: 3

Test Start: 2010.12.17 @ 06:57:23

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 08:38:38

Time Test Ended: 14:49:23

Interval: **3531.00 ft (KB) To 3545.00 ft (KB) (TVD)**

Total Depth: **3545.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Reference Elevations: **1949.00 ft (KB)**

1942.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8370 Outside

Press@RunDepth: psig @ **3532.00 ft (KB)**

Start Date: **2010.12.17**

End Date: **2010.12.17**

Capacity: **8000.00 psig**

Last Calib.: **2010.12.17**

Start Time: **06:50:45**

End Time: **14:47:54**

Time On Btm:

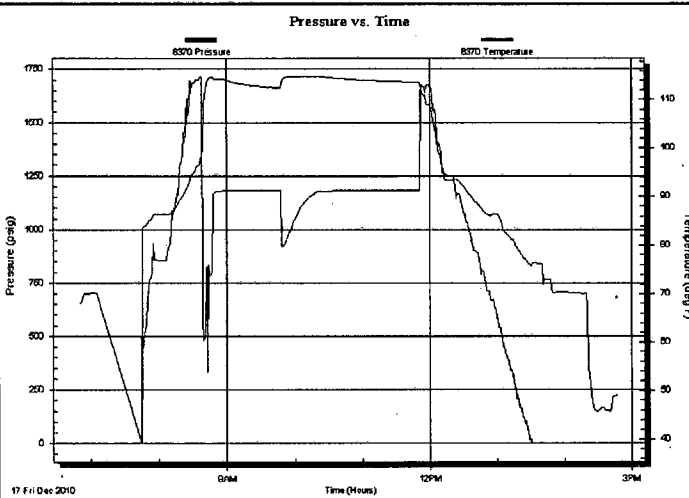
Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 30 secs.

IS: Weak blow . 3/4".

FF: Strong blow . B.O.B. in 20 secs.

FS: No blow .



PRESSURE SUMMARY

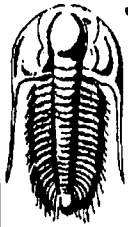
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MW 16% m 84% w	3.09
2970.00	SW /Rw .28ohms @51 deg.	41.66

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039294

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.12.17 @ 06:57:23

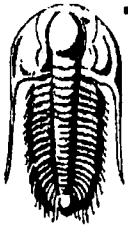
Tool Information

Drill Pipe:	Length: 3510.00 ft	Diameter: 3.80 inches	Volume: 49.24 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 49.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3531.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3502.00	
Shut in tool	5.00			3507.00	
Sampler	2.00			3509.00	
HMV	5.00			3514.00	
Jars	5.00			3519.00	
Safety Joint	3.00			3522.00	
Packer	4.00			3526.00	30.00 Bottom Of Top Packer
Packer	5.00			3531.00	
Stubb	1.00			3532.00	
Recorder	0.00	8167	Inside	3532.00	
Recorder	0.00	8370	Outside	3532.00	
Perforations	8.00			3540.00	
Bullnose	5.00			3545.00	14.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

Stramel #1-7

1515 Wynkoop St. Ste. 700
Denver Co. 80202

7-16s-16w Rush Ks.

Job Ticket: 039294

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2010.12.17 @ 06:57:23

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:

35000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	MW 16% m 84% w	3.086
2970.00	SW /Rw .28ohms@51 deg.	41.661

Total Length: 3190.00 ft Total Volume: 44.747 bbl

Num Fluid Samples: 0

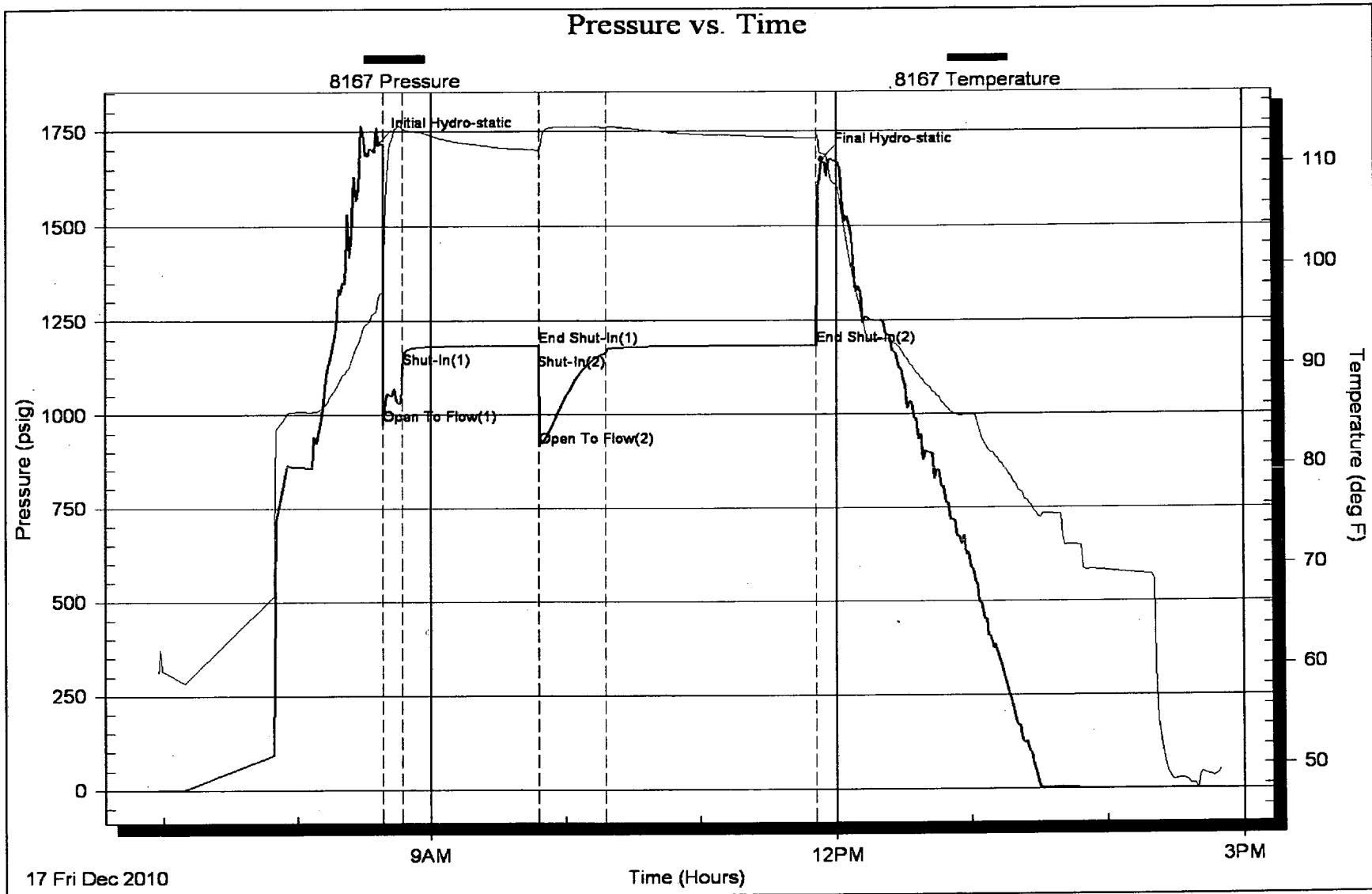
Num Gas Bombs: 0

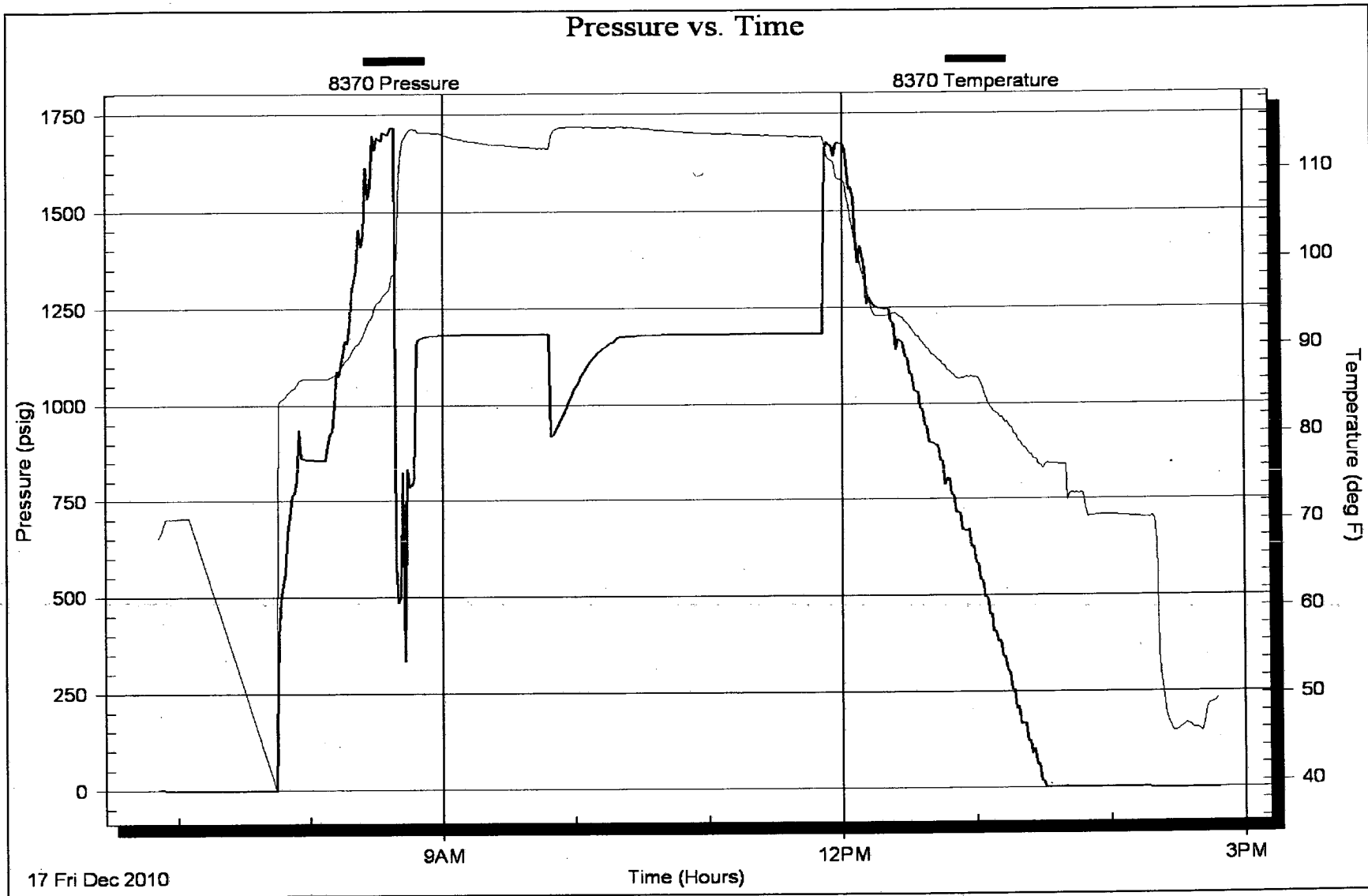
Serial #: none

Laboratory Name:

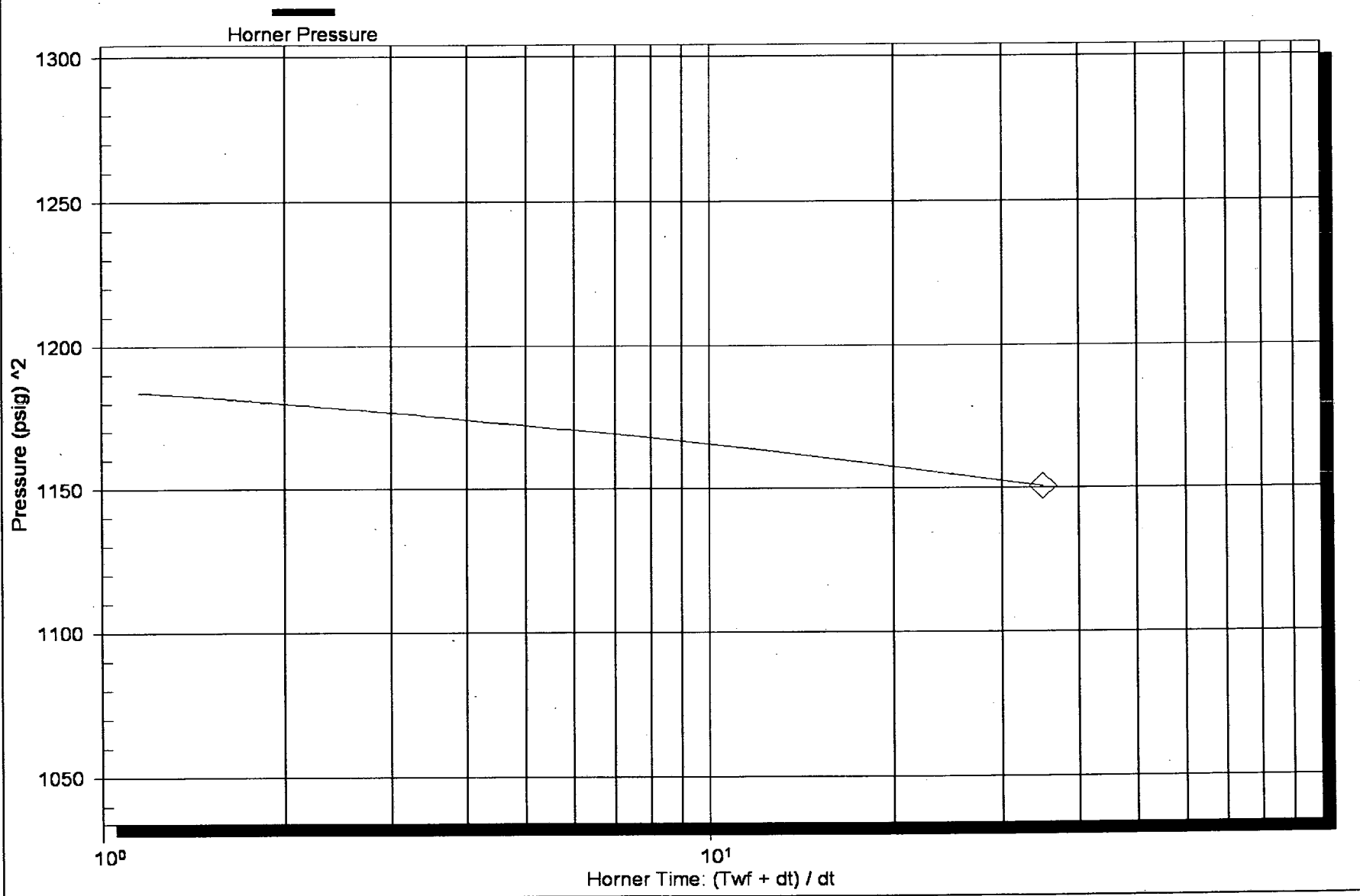
Laboratory Location:

Recovery Comments: SAMPLER DATA: 2300 ML. of water @ 1160 psi





Horner Plot



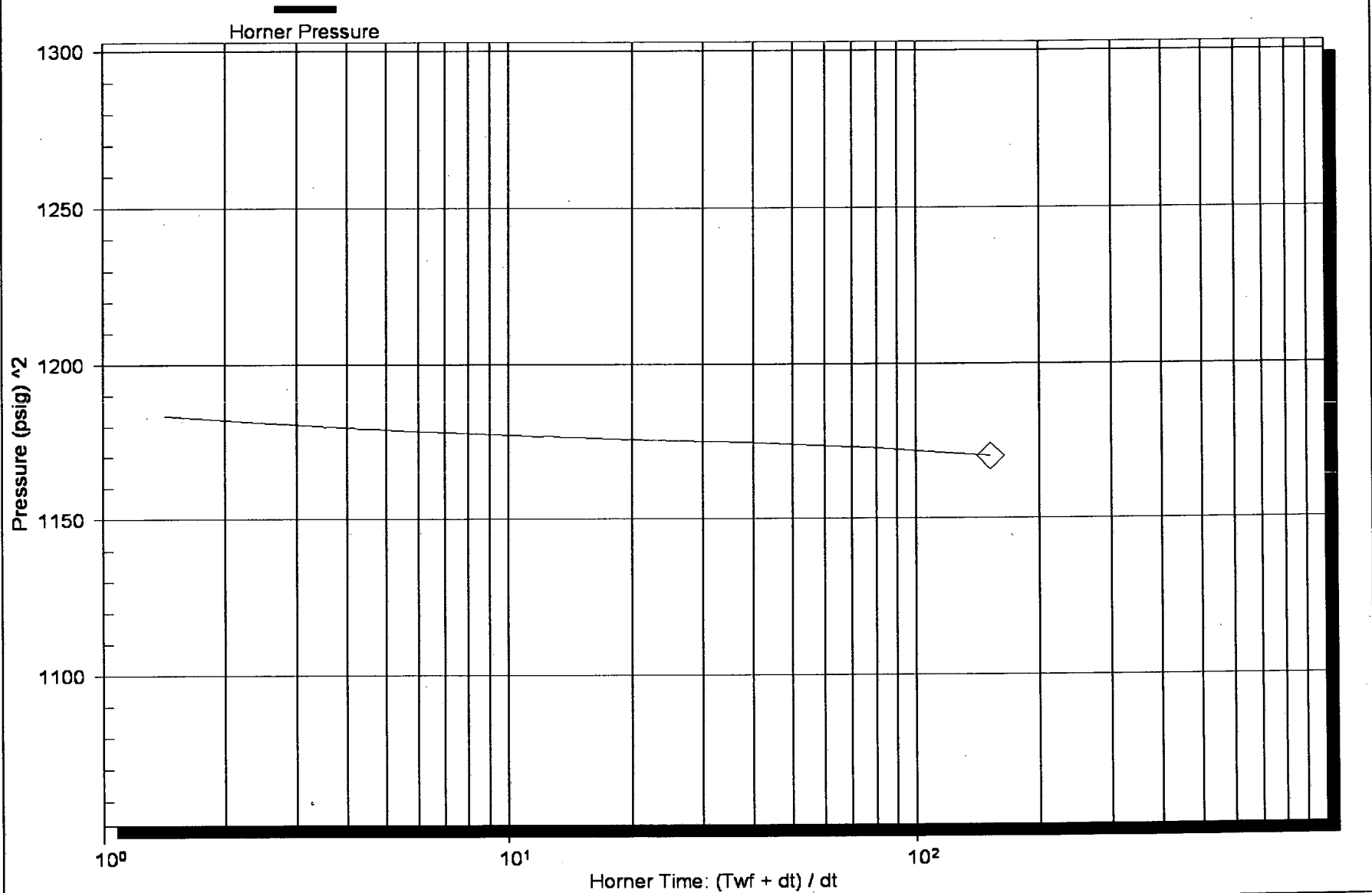
Serial Number: 8167 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



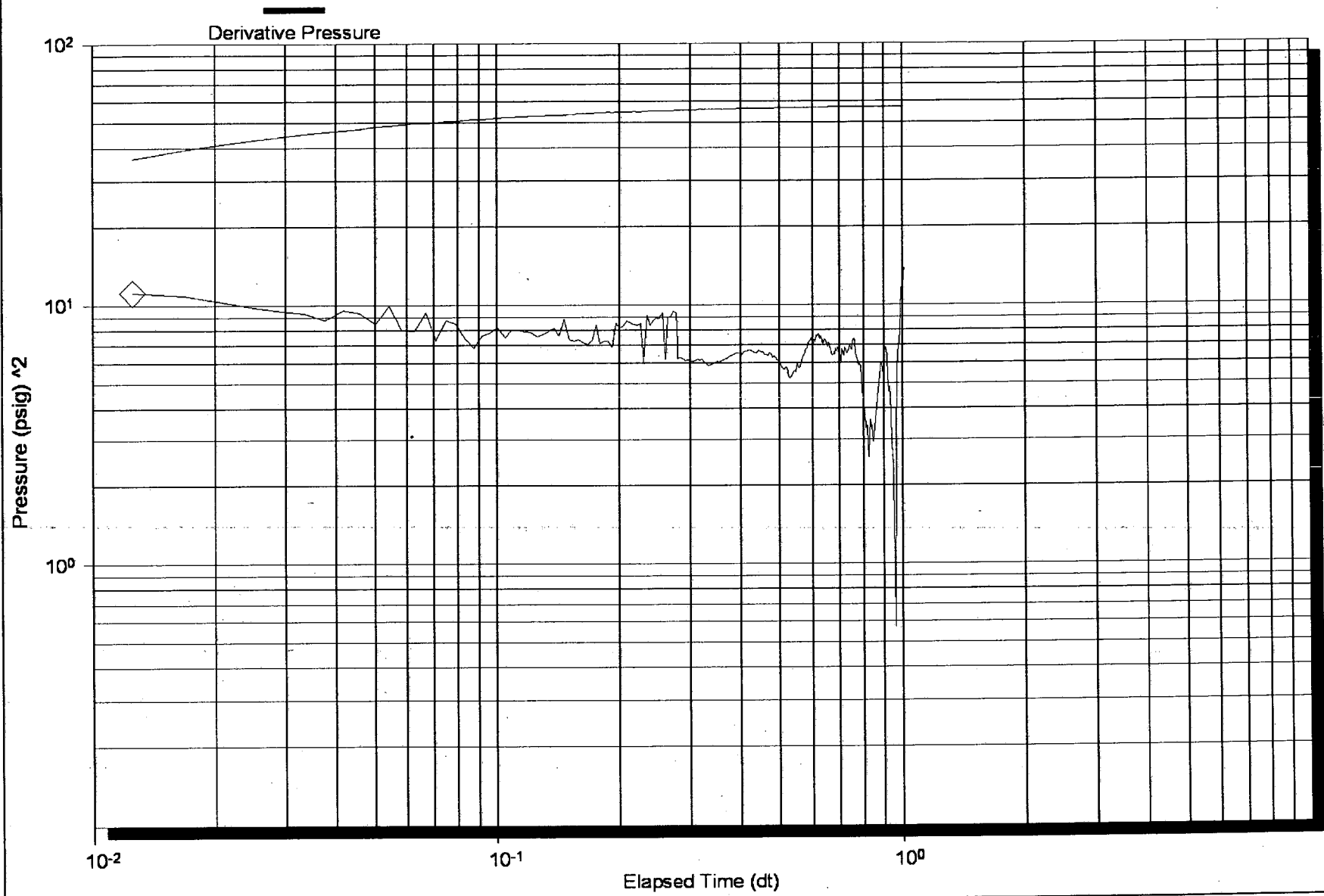
Serial Number: 8167 (Inside)

P* :

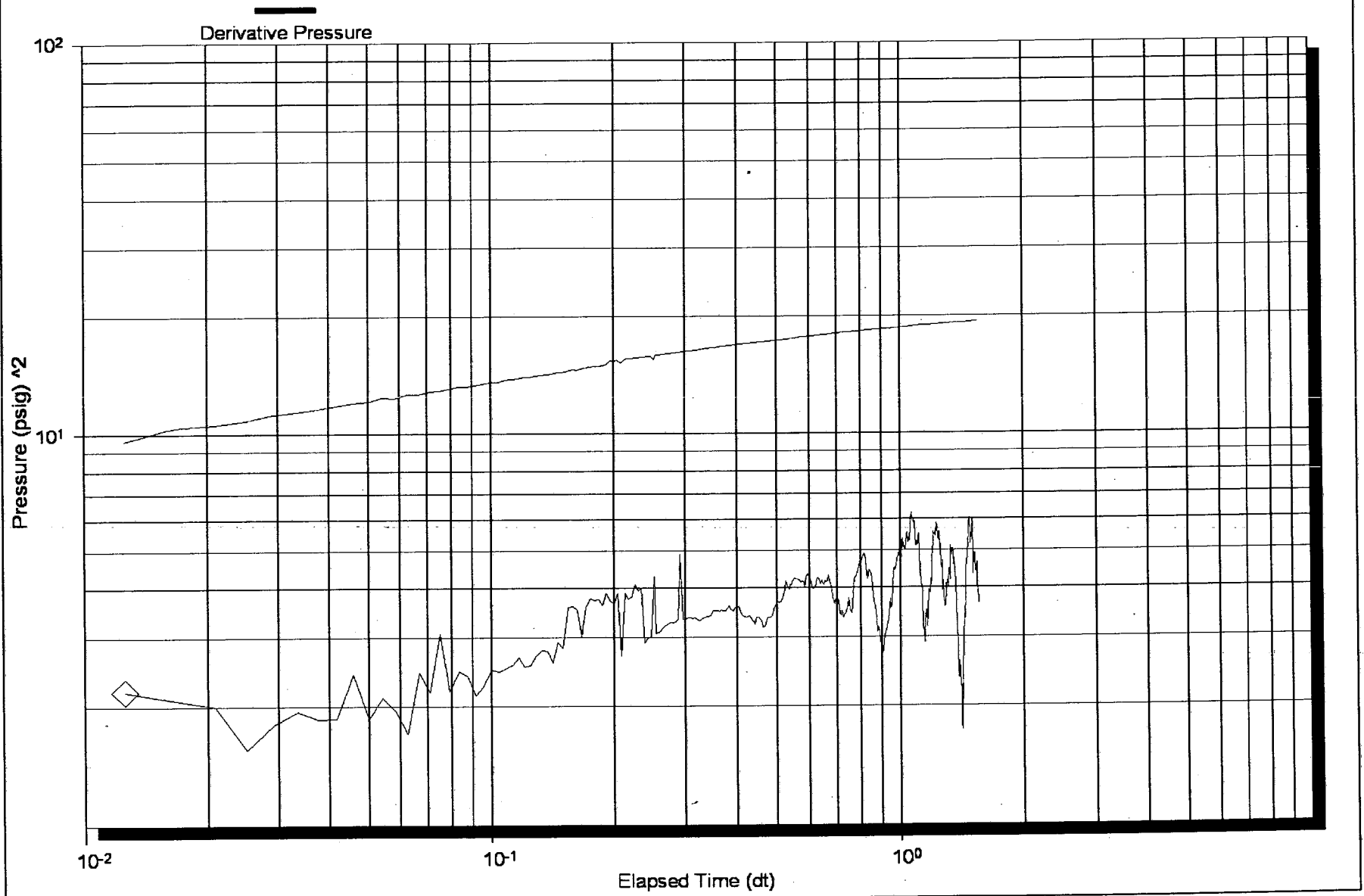
Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative



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



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

April 21, 2011

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

Re: ACO-1
API 15-165-21909-00-00
Stramel 1-7
S/2 Sec.07-16S-16W
Rush County, Kansas

Dear CLAYTON CAMOZZI:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/10/2010 and the ACO-1 was received on April 20, 2011 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department