



**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: \_\_\_\_\_



1049493

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCHENKEL-ZIMMERMAN 1-10
Doc ID	1049493

All Electric Logs Run

POROSITY
DUAL INDUCTION
MICRORESISTIVITY
SONIC

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCHENKEL-ZIMMERMAN 1-10
Doc ID	1049493

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3218'-21'	500 GAL 20%MCA W/ 3% MAS	3218'-21'
4	3240'-46'	500 GAL 28%MCA W/ 3% MAS	3240'-46'
4	3258'-65'	500 GAL 28%MCA W/ 3% MAS	3258'-65'
4	3282'-84'	500 GAL 28%MCA W/ 3% MAS	3282'-84'
4	3400'-04'	500 GAL 28%MCA W/ 3% MAS	3400'-04'
4	3408'-13'	500 GAL 28%MCA W/ 3% MAS	3408'-13'



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

January 17, 2011

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

Re: ACO1  
API 15-165-21894-00-00  
SCHENKEL-ZIMMERMAN 1-10  
NW/4 Sec.10-16S-16W  
Rush County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office at 303-861-4673.

Respectfully,  
CLAYTON CAMOZZI



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

Date: 9/23/2010  
 Invoice # 4247

P.O.#:  
 Due Date: 10/23/2010  
 Division: Russell

# Invoice

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

**Reference:**  
 SCHENKEL-ZIMMERMAN 1-10

**Description of Work:**  
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 646.28	No	Baffle Plate Aluminum, 8 5/8"	1	\$88.83	Yes
Common-Class A	400	\$ 4,619.22	Yes				
8 5/8" Basket	3	\$ 935.69	Yes				
Bulk Truck Matl-Material Service Charge	421	\$ 831.06	No				
Calcium Chloride	14	\$ 520.39	Yes				
Pump Truck Mileage-Job to Nearest Camp	26	\$ 256.11	No				
Flo Seal	100	\$ 197.40	Yes				
8 5/8" Centralizer	3	\$ 189.51	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	26	\$ 149.87	No				
Premium Gel (Bentonite)	7	\$ 112.48	Yes				
8 5/8" Top Rubber Plug	1	\$ 104.62	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 8,651.46  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (1,297.72)

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SubTotal for Taxable Items: \$ 5,752.92  
 SubTotal for Non-Taxable Items: \$ 1,051.49

6.30% Rush County Sales Tax

Total: \$ 7,353.75  
 Tax: \$ 362.43  
**Amount Due: \$ 7,716.18**  
**Applied Payments:**  
**Balance Due: \$ 7,716.18**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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DRLG    COMP    W/O    LOE  
 AFE # \_\_\_\_\_  
 ACCT. # 8200-138  
 APPROVED BY [Signature]

# 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. 4247

Date 9-22-10 Sec. 10 Twp. 16 Range 16 County Rush State Ks On Location \_\_\_\_\_ Finish 2:15 PM

Lease Schenkel-Zimmerman Well No. 1-10 Location Gotham, Ks - Sto Cl., 1 1/2 W, Sto CRd

Contractor Discovery Drilling Rig #2 Owner 2W, 1/2 N, E/S

Type Job Surface To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 1068' Charge To Sam Gary Jr & Associates, Inc

Csg. 8 5/8" Depth 1068' Street \_\_\_\_\_

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Tool \_\_\_\_\_ Depth \_\_\_\_\_

Cement Left in Csg. 42.60' Shoe Joint 42.60' The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line \_\_\_\_\_ Displace 65 1/4 BBLs Cement Amount Ordered 400 sq Common 3% CC 2% Gel

**EQUIPMENT**

Pumptrk <u>9</u> No. <u>9</u> Cementer <u>Neate</u> Helper <u>Neate</u>	1/4# Flt-seal
Bulktrk <u>12</u> No. <u>12</u> Driver <u>Doug</u> Driver <u>Doug</u>	Common <u>400</u>
Bulktrk <u>p.u.</u> No. <u>p.u.</u> Driver <u>Rick</u> Driver <u>Rick</u>	Poz. Mix _____
	Gel. <u>7</u>
	Calcium <u>14</u>

**JOB SERVICES & REMARKS**

Remarks: Cement did Circulate

Rat Hole \_\_\_\_\_ Salt \_\_\_\_\_

Mouse Hole \_\_\_\_\_ Flowseal 100

Centralizers Jts. 1, 16, 28 Kol-Seal \_\_\_\_\_

Baskets Jts. 7, 16, 23 Mud CLR 48 \_\_\_\_\_

D/V or Port Collar \_\_\_\_\_ CFL-117 or CD110 CAF 38 \_\_\_\_\_

Sand \_\_\_\_\_

pump 10 BBLs of water Ahead Handling 421

Mileage \_\_\_\_\_

**FLOAT EQUIPMENT**

Guide Shoe \_\_\_\_\_

Centralizer 3

Baskets 3

AFU Inserts \_\_\_\_\_

Float Shoe \_\_\_\_\_

Latch Down \_\_\_\_\_

1- Baffle plate

1- Rubber plug

Pumptrk Charge Long Surface

Mileage 26

8 5/8"

X Signature [Signature]

Tax \_\_\_\_\_  
Discount \_\_\_\_\_  
Total Charge \_\_\_\_\_



PAGE 1 of 1	CUST NO 1003682	INVOICE DATE 10/01/2010
INVOICE NUMBER 1718 - 90422143		

Pratt (620) 672-1201  
 B SAMUEL GARY JR. & ASSOCIATES  
 I 3111 W 10TH ST, STE 101  
 L GREAT BEND  
 L KS US 67530  
 T  
 O ATTN:

J LEASE NAME Schenkel-Zimmerman 1-10  
 O LOCATION  
 B COUNTY Rush  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40235806	20920		Net - 30 days	10/31/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 09/29/2010 to 09/29/2010</b>				
0040235806				
171802540A Cement-New Well Casing/Pi 09/29/2010 5 1/2" Longstring				
60/40 POZ	75.00	EA	8.04	602.98 T
50/50 POZ	150.00	EA	7.37	1,105.47 T
Cello-flake	37.00	EA	2.48	91.72 T
Cal-Set	750.00	EA	0.50	376.86 T
Calcium Chloride	252.00	EA	0.70	177.28 T
FLA-322	121.00	EA	5.02	608.01 T
Cement Gel	252.00	EA	0.17	42.21 T
Gilsonite	1,125.00	EA	0.45	505.00 T
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	267.99	267.99
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	241.19	241.19
Turbolizer 5 1/2" (Blue)	8.00	EA	73.70	589.58
CS-1L KCL Substitute	4.00	EA	23.45	93.80 T
Super Flush II	500.00	EA	1.03	512.54 T
Unit Mileage Charge-Pickups, Vans & Cars	85.00	HR	2.85	242.03
Heavy Equipment Mileage	170.00	MI	4.69	797.28
Proppant and Bulk Delivery Charges	812.00	MI	1.07	870.44
Depth Charge; 3001-4000'	1.00	HR	1,447.14	1,447.14
Blending & Mixing Service Charge	225.00	MI	0.94	211.04
Casing Swivel Rental	1.00	EA	134.00	134.00
Plug Container Utilization Charge	1.00	EA	167.50	167.50
Supervisor	1.00	HR	117.25	117.25

RECEIVED

OCT 11 2010

SAMUEL GARY JR.  
& ASSOCIATES, INC.

DRLG  COMP  W/O  LOE  
 AFE # \_\_\_\_\_  
 ACCT. # 8200-134  
 APPROVED BY KJS

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,201.31
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	259.30
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	9,460.61
DALLAS, TX 75284-1903	MIDLAND, TX 79702		





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 02540 A

DATE \_\_\_\_\_ TICKET NO. cont

DATE OF JOB <u>09-29-10</u> DISTRICT <u>Pratt</u>		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 <u>SAM-GARY SR. Assoc.</u>		LEASE <u>Schenkels-Zimmerman</u> WELL NO. <u>1-10</u>							
ADDRESS		COUNTY <u>Rush</u> STATE <u>Ks</u>							
CITY STATE		SERVICE CREW <u>Sullivan, Mole, Bishop</u>							
AUTHORIZED BY		JOB TYPE: <u>CNW 5 1/2 Longstop</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>83708-20920</u>	<u>25</u>						<u>09-28-10</u>	PM	<u>3:20</u>
<u>19831-19862</u>	<u>35</u>					ARRIVED AT JOB	<u>09-28-10</u>	AM	<u>3:45</u>
<u>19867</u>						START OPERATION	<u>09-28-10</u>	AM	<u>6:55</u>
						FINISH OPERATION		AM	<u>4:30</u>
						RELEASED		AM	<u>3:00</u>
						MILES FROM STATION TO WELL			<u>85</u>

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: J. Sullivan  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60% pot cont	sk	75		900 00
CP 104	50% pot cont	sk	150		1,650 00
CC 102	colltake	lb	37		136 90
CC 109	Calcium chloride	lb	252		264 60
CC 113	CAL-Set	lb	750		562 50
CC 129	FLA-322	lb	121		907 50
CC 200	cont gel	lb	252		63 00
CC 201	collocite	lb	1125		753 75
CF 607	Latex down plug, 5 1/2	GA	1		400 00
CF 1251	Auto fill shoe float	GA	1		360 00
CF 1651	Turbidizer	gal	85		980 00
CF 709	KCL-Solvent	gal	4		190 00
CF 155	Super Fluid	gal	900		765 00
CF 100	nickel oxide	mi	85		361 25
CF 121	Heavy Seal mat. 10	m	170		1,190 00
CF 113	Bulk Nitrogen	Ton	872		1,299 80
CF 204	Depth charge - 3001 400'	GA	1		2,160 00
CF 240	Blending - 1000	sk	225		315 00
CF 501	Chemical Sweet Water	GA	1		200 00

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>16,100</u>

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: J. Sullivan  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 02541 A

Continuation of  
TICKET NO. 1718 02540A

DATE

DATE OF JOB <u>08-29-10</u>	DISTRICT	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 <u>SAM - 9924 SA</u>		LEASE <u>Schenkels-Zimmerman</u>						WELL NO.		
ADDRESS		COUNTY <u>Roch</u>						STATE <u>Ks</u>		
CITY	STATE	SERVICE CREW <u>Robert Miller, Robert</u>								
AUTHORIZED BY	JOB TYPE: <u>new 5 1/2" hole</u>									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>322-20920</u>						ARRIVED AT JOB				
<u>19521-19522</u>						START OPERATION				
<u>19567</u>						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				

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: J. Miller

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>9504</u>	<u>blue container Rental</u>	<u>PK</u>	<u>1</u>		<u>250 00</u>
<u>2003</u>	<u>Schum Separation</u>	<u>BT</u>	<u>1</u>		<u>175 00</u>

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		<u>425</u>	<u>9201 31</u>

SERVICE REPRESENTATIVE Robert Miller THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY J. Miller

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer: <i>SAM-9924 SR.</i>		Lease No.:		Date: <i>09-29-10</i>	
Lease: <i>Schockel-Zimmer</i>		Well #: <i>1-10</i>			
Field Order #: <i>2290</i>	Station: <i>PRATT</i>	Casing: <i>5 1/2</i>	Depth: <i>3598'</i>	County: <i>PUSH</i>	State: <i>KS</i>
Type Job: <i>NW 5 1/2 long string</i>			Formation:	Legal Description: <i>10-16-16</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>5 1/2</i>				Pre Pad		Max		5 Min.
Depth: <i>3598</i>	Depth:	From:	To:	Pad		Min		10 Min.
Volume: <i>85</i>	Volume:	From:	To:	Frac		Avg		15 Min.
Max Press: <i>3000</i>	Max Press:	From:	To:			HHP Used		Annulus Pressure
Well Connection: <i>P.C.</i>	Annulus Vol.:	From:	To:	Flush		Gas Volume		Total Load
Plug Depth: <i>3510</i>	Packer Depth:	From:	To:					

Customer Representative:				Station Manager: <i>DAVE SCOTT</i>		Treater: <i>Robert Fullmer</i>			
Service Units	<i>19807</i>	<i>33706</i>	<i>20970</i>	<i>19831</i>	<i>19862</i>				
Driver Names	<i>Bullman</i>	<i>Mohr</i>		<i>Bishop</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2245</i>					<i>on loc safety meeting</i>
					<i>Ran 816 5 TS 5 1/2 15.5 csg</i>
<i>0240</i>					<i>CASING ON BOTTOM</i>
<i>0300 pm</i>					<i>Hook Up csg.</i>
<i>0355</i>	<i>200</i>		<i>12</i>	<i>4</i>	<i>1st Super Fluid</i>
			<i>5</i>		<i>at spacer</i>
			<i>9</i>	<i>5</i>	<i>mix scavenger cont 45% 40/100</i>
					<i>mix to 1500 5% super 4% gel</i>
					<i>24 cc 1 1/4 dilute.</i>
			<i>40</i>		<i>shut down cont mix wash line, plug</i>
					<i>Release Plug</i>
<i>0412</i>	<i>200</i>			<i>6</i>	<i>1st Plug</i>
	<i>300</i>		<i>20</i>		<i>lift + PS.</i>
				<i>4</i>	<i>slow Rate</i>
<i>0430</i>	<i>1800</i>		<i>85</i>		<i>plug down</i>
			<i>6</i>	<i>2</i>	<i>plug R.H.</i>
			<i>7</i>	<i>2</i>	<i>plug m 41</i>
					<i>SOP Complete</i>
					<i>Thank you</i>



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

Well Name: SCHENKEL-ZIMMERMAN 1-10  
 Location: SEC 10, T16 S, R16W, RUSH COUNTY, KANSAS  
 License Number: 15-165-21894-0000  
 Spud Date: 09/21/2010  
 Surface Coordinates:  
 Bottom Hole Coordinates:  
 Ground Elevation (ft): 1961' K.B. Elevation (ft): 1969'  
 Logged Interval (ft): 1827 To: 3600' Total Depth (ft): 3600'  
 Formation: Lansing, Arbuckle  
 Type of Drilling Fluid:  
 Region: Wildcat  
 Drilling Completed: 9/28/2010

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

**OPERATOR**

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

**GEOLOGIST**

Name: Tim Hedrick/Jason Marshall  
 Company: Earth Tech OGL, Inc.  
 Address: PO Box 683  
 Hooker, Okla. 73945  
 Off. 888-543-8378 Cell: 620-655-2050

**DST's Report**

DST#1 3194 TO 3250 MISRUN

DST#2 3229 TO 3250' 10 60 30 90/  
 IF-BOB IN 8 MIN./ ISI- NO BLO/ FF- BOB IN 3 MIN./ FSI- BLT TO 4"  
 IH- 1549, FH- 1527/ IF- 53 To 71, FF- 81 To 120/ ISI- 891#, FSI- 875#  
 Recovered 270' TF, 30' mud- 100% m., 60' mwo gas, 20% g., 40% o., 30%w., 10% m./ 60' MWOG, 20% g., 60% o.,  
 10% w., 10% m./ 120' mwo, 10% o., 80%w., 10% m./ Chlorides 145k, BHT 103 Deg.( Tool slid 8-10' after open)

DST#3- 3256 To 3309' 5 60 35 100/ IF-bob in 2 min./ ISI- No Blow/ FF- Bob in 2 Min./ FSI- Blt to 4"  
 IH- 1592, FH- 1531/ IF- 89 to 121, FF- 184 To 224/ ISI- 959, FSI- 930  
 Recovered- 540' GIP/ 340' TF- 40' M., 100% M., / 60' MWOG, 20%g., 40% o., 20% w., 20% m.,/ 60' MWOG, 60% g.,  
 20% o., 15% w., 5% m.,/ 60' MWOG, 20% g., 60% o., 15% w., 5% m./ 120' MWOG, 20% g., 60% o., 15% w., 5% m./  
 Chlorides 6800/ BHT 104 Deg.( Tool slid 6-8" after open)

**ROCK TYPES**

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



ACCESSORIES

MINERAL

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

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

FOSSIL

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

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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandyms
- Sh
- Slstsn

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

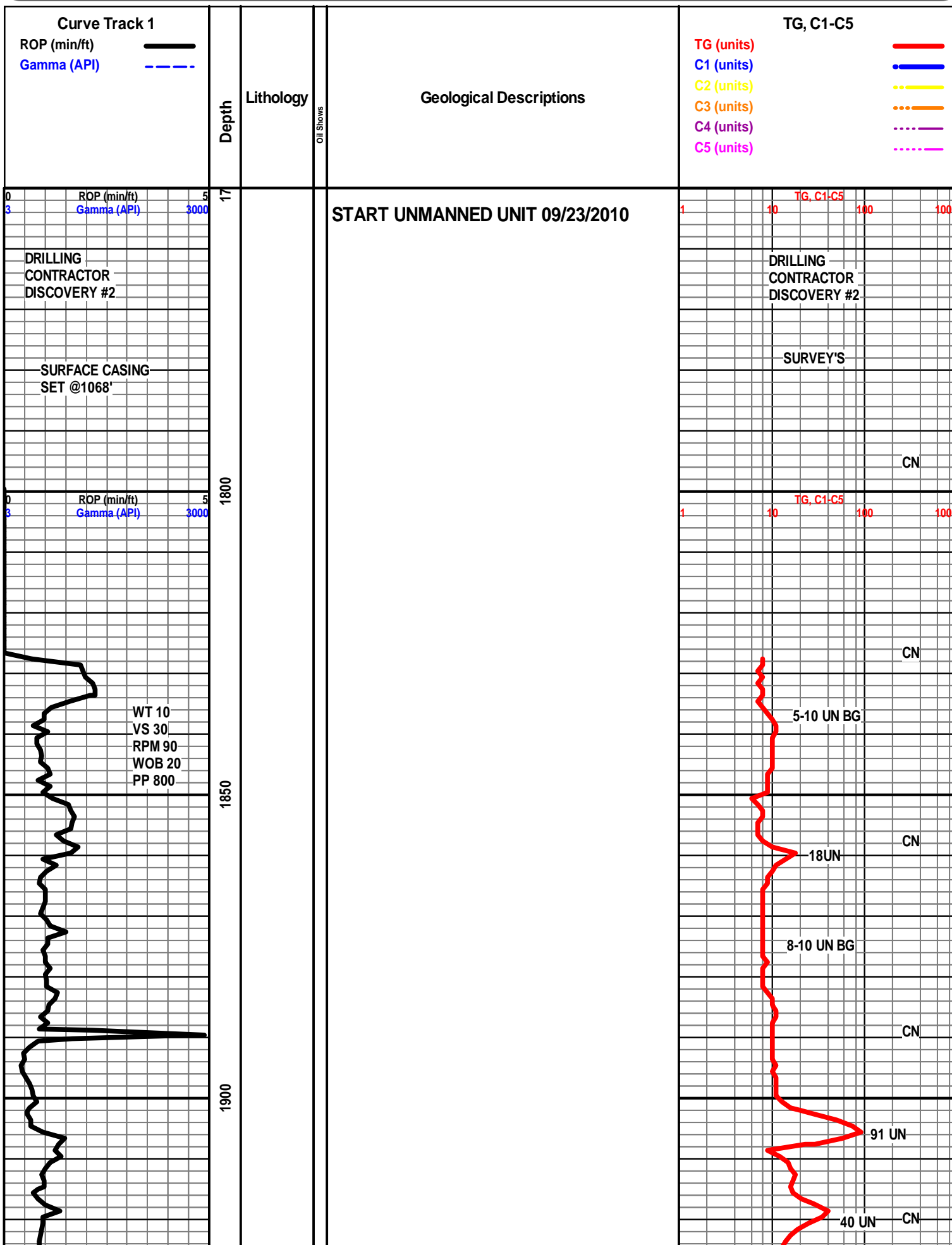
- Even
- Spotted
- Ques
- Dead
- Gas show

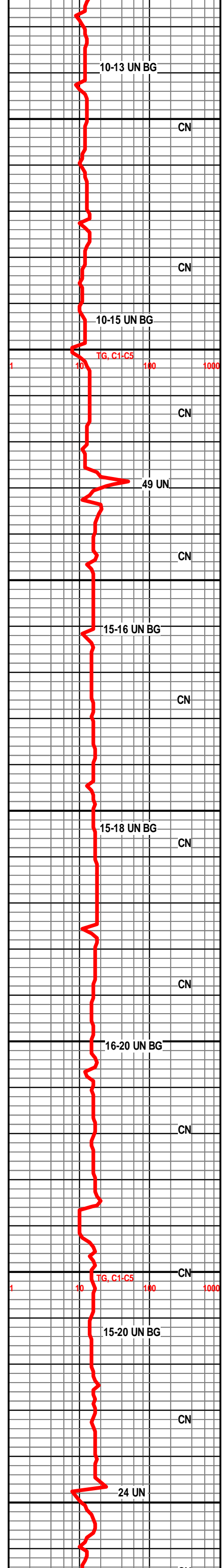
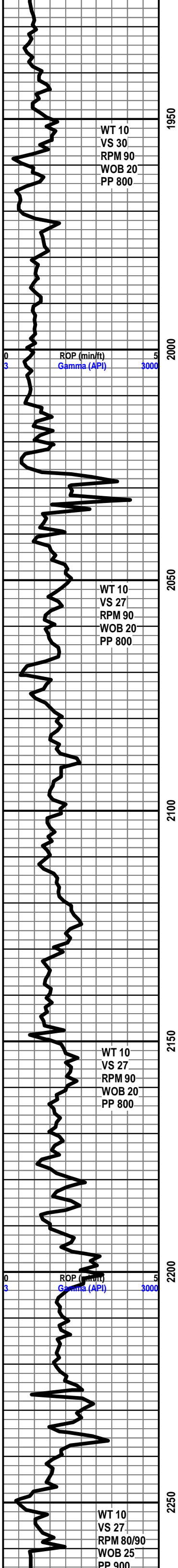
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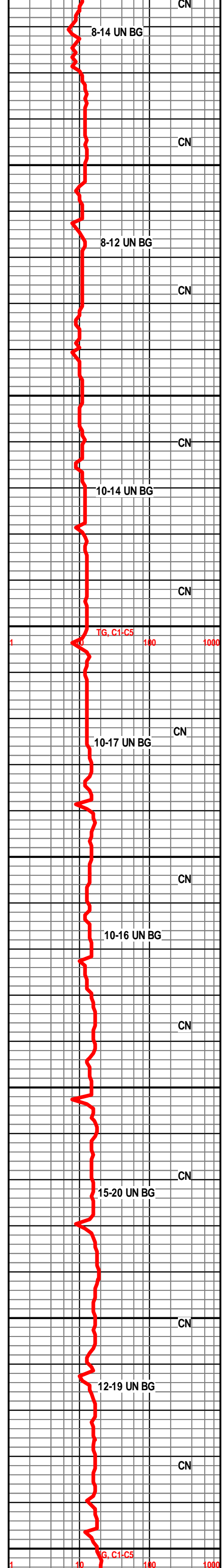
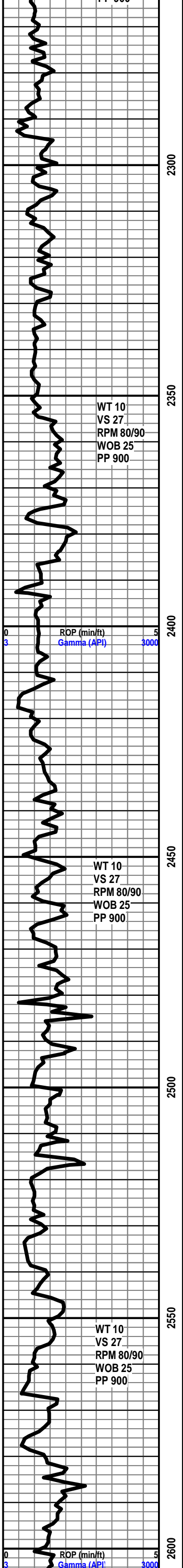
- Core
- Dst
- Dst

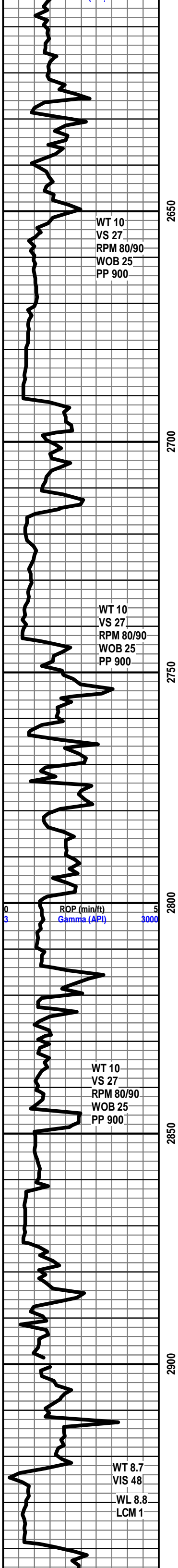
EVENTS

- Rft
- Sidewall









WT 10  
VS 27  
RPM 80/90  
WOB 25  
PP 900

WT 10  
VS 27  
RPM 80/90  
WOB 25  
PP 900

ROP (min/ft)  
Gamma (API)

WT 10  
VS 27  
RPM 80/90  
WOB 25  
PP 900

WT 8.7  
VIS 48  
WL 8.8  
LCM 1

2650

2700

2750

2800

2850

2900

BASE ROOT SHALE 2690' -721'

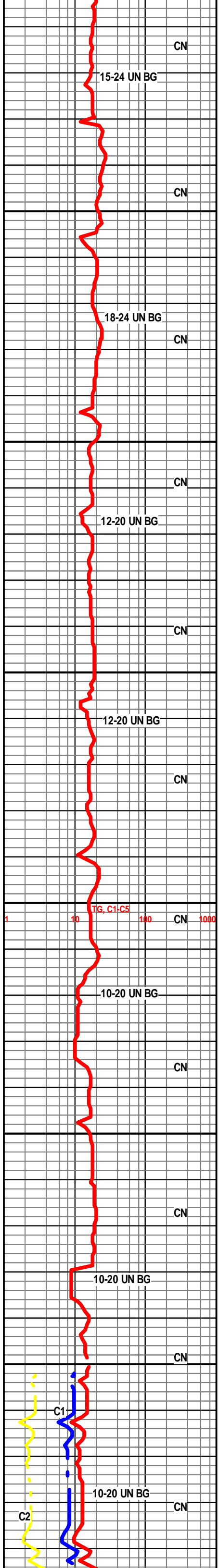
HOWARD 2874' -905'

LS- CRM LT TN TN HD BRITT MD FN XLN REXLN MTRX  
FOSS TR IMBD SH LT BRIT YEL FLO NO VIS POR NO VIS  
SHOW

SEVERY 2922' -953'

SH- LT GRY GRY V/SFT SLTY SLI TR FN GRN QURTZ IP  
MICRO MICA

TOPEKA 2938' -969'



CN

15-24 UN BG

CN

18-24 UN BG

CN

CN

12-20 UN BG

CN

12-20 UN BG

CN

TG, C1-C5

CN

10-20 UN BG

CN

CN

10-20 UN BG

CN

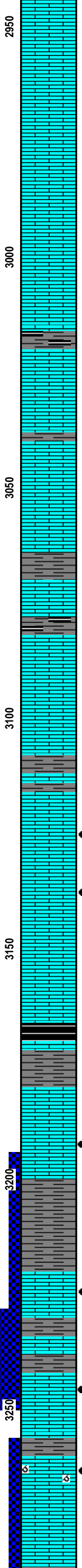
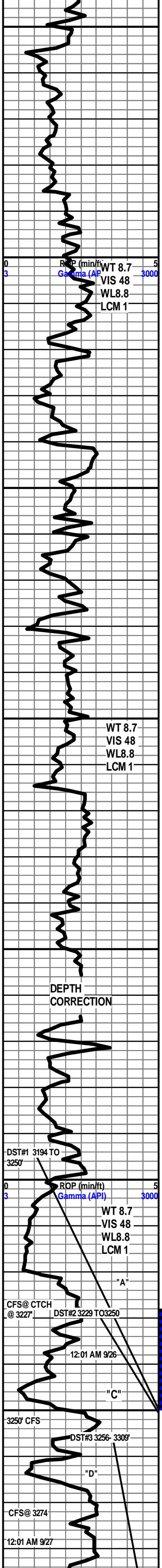
C1

10-20 UN BG

CN

C2





LS- CRM LT TN TN HD DNS BR TT IP FN V/FN XLN REXLN IP TR FOSS SM CALC XLS IP NO FLO TR INTR XLN POR IP NO VIS SHOW

LS- OFF WHT CRM MD HD V/SUCRO S/CHLKY MTRX NO FLO NO VIS POR NO VIS SHOW

LS- CRM LT TN TN HD DNS BR TT V/TT SUCRO MTRX TR LMNTD PYR IP NO FLO TO DLL YEL MIN FLO NO VIS POR NO VIS SHOW

SH- DK GR Y BLK FRM BLKY CALC BLK SFT CARB

LS- OFF WHT CRM LT GR Y MD HD SFT V/SUCRO S/CHLKY TO CHLKY TR SH IMBD SLI TR FOSS FRAGS NO FLO NO VIS POR NO VIS SHOW

**LE COMPTON 3041' -1072'**

LS- LT TN TO TN HD DNS TR FOSS FRAGS TR IMBD SH IP TR CALC XLS IP NO FLO POSS FRACT POR NO VIS SHOW

SH- LT GR Y TO GR Y FRM BLKY MICA TO SFT SLTY IP

LS- WHT OFF WHT CRM HD DNS FN XLN TR FOSS FRAGS HVY TR VRGTD CALC XLS IP TR CHLK NO FLO POSS FRACT POR NO VIS SHOW

SH- DK GR Y TO BLK FRM TO SFT TO CARB IP

LS- CRM BUFF HD DNS FN TO MD XLN FOSS FRAGS TR SH DLL YEL MIN FLO NO VIS POR NO VIS SHOW

SH- LT GR Y TO GR Y FRM V/CALC TO TR LT GREEN SLTY

LS- OFF WHT CRM LT TN DUE TO TN STAIN IN 10% V/SUCRO FN XLN IP SLI TR FOSS TR CALC XLS NO FLO PR VIS INTR XLN POR WK FL SH TO GD SLOW CUT IN 10%, ONE ROCK

LS- OFF WHT CRM TN BRN DUE TO LIVE OIL STAIN 40 % HD DNS V/FN XLN REXLN IP HVY TR SM CALC XLS TO TR FREE LG CALC XLS WITH LIVE OIL NO FLO TR OF INTR XLN POR POSS FRACT POR EX FL SH TO EX STRM CUT NO OIL ODOR TN STAIN ON DISH

**HEEBNER 3166' -1199'**

SH- BLK SFT CARB SHALE

SH- LT GR Y TO LT GREEN FRM SMTH TXT

LS- OFF WHT CRM TN HD BR TT FN XLN TO SUCRO SLI S/CHLKY IP DLL TO BRIT YEL GLD FLO THRU PR TO FR INTR XLN POR IN 50% FR FL SH TO FR SLOW STRM CUT GD OIL ODOR

**DOUGLAS 3199' -1230'**

SH- LT TO MD GR Y FRM IP TO SFT SLTY W/SLI TR V/V/FN QUARTZ IP MICA IP

**LANSING 3220' -1251'**

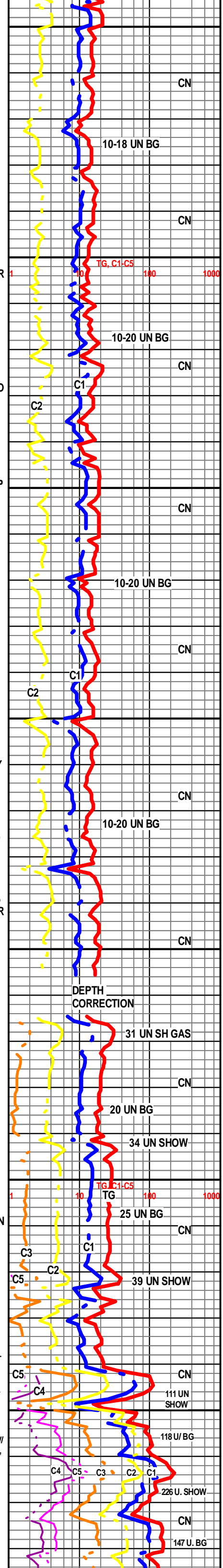
LS- LT TN TO TN TO CRM HD DNS TO BR TT FN XLN TO V/TT SUCRO IP DLL YEL GLD FLO IN 70% PR TO FR INTR XLN POR TR OF IMBD CALC XLS FR FL SH TO GD SLOW STRM CUT IN 70% NO ODOR

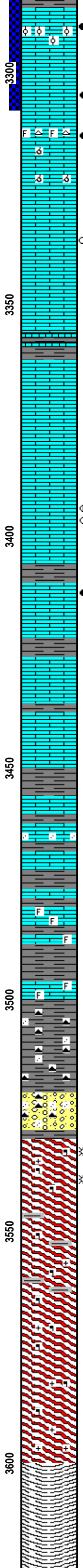
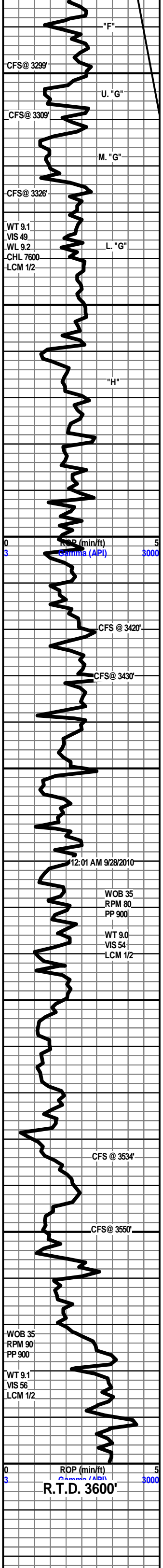
SH- LT GR Y TO V/LT GREEN FRM BLKY SLI SILTY TXT

3243- 3246' LS- CRM LT TN TO TN WITH DK TN OIL STAIN 100% HD BR TT MD TO FN XLN V/REXLN MTRX V/FOSS ABDT IMBD MD OOL SM CALC XLS IP DLL YEL GLD FLO THRU BRIT YEL GLD FLO IP 30% PR TO FR VIS INTR XLN POR FR TO GD VIS INTR FOSS POR TR OF SCRT INTR OOL POR TR SCRT FR MICRO VUG POR GD FL SH CUT TO EX SLOW STRM MLKY BLUE CUT BRN LCH ON DISH

3261 TO 64 LS- OFF WHT TN BRN( DUE TO LV OIL STN SCAT THRU, HD V/ BRITT, MD-F-XLN RE-XLN MTRX, HVY TR OOLMLD IP, TR MICRO OOL IP, SCAT FOSS IP, SMLL CALC XLS IMBD IP, HVY TR ABDT SFT WHT CHLK IP, DLL YEL GLD FLO THRU , SCAT BRIT YEL GLD FLO THRU, PR TO FR SCAT OOLMLD POR, TR FR SCAT MICRO VUG POR, V/ PR TR INTER FOSS POR, PR OOLMLD POR IP, STRNG OIL ODOR, EXCEL INST FL SH CUT TO EXCEL SLO STRM MLKY BLU CUT, BRN LCH ON DISH

LS- CRM BFF- HD DNS TR BRITT, F-V/F-XLN , RE-XLN IP, SLI TR SMLL CALC XLS IP, NO FLO, NO VIS POR, NO VIS SHOW





3288 TO 3291' LS- LT TN TN9 DUE TO OI STN THRU,) HD V/ BRITT , MD-XLN, V/ RE-XLN MTRX, V/ MICRO OOL , FOSS FRGS SCAT THRU, DLL YEL GLD FLO THRU , BRIT YEL GLD FLO SPOTTD THRU, PR TO F VIS INTER -OOL POR , SCAT FR TO TR GD INTER FOSS POR IP, FR OIL ODOR, FR FLSH CUT TO FR TO GD SLO STRM CUT THRU, LT TN LCH ON DSH

3303 TO 3307 LS- CRM LT TN TN ( DUE TO OIL STN IN 80%), HD TO V/ BRITT, MD-F-XLN, V/ RE-XLN MTRX, V/ FOSS, HVY TR MICRO OOL W/ SMLL CALC XLS IMBD THRU, TR LRG CALC XLS IMBD IP, DLL YEL GLD FLO IN 80%, BRIT YEL GLD FLO SCAT THRU, NO FLO IN 10%, FR TO GD VIS INTER-XLN POR TO FR TO GD VIS MICRO OOL IP, TR SCAT MICRO VUG POR, V/ GD FLSTH TO V/ GD TO EXCEL SLO STRM CUT, GD OIL ODOR TN LCH ON DISH

3313 TO 3314, LS-OFF WHT TN LT BRN(STN IN 20%) HD DNS IP TO BRITT, MD-F-XLN V/ RE-XLN MTRX, V/ FOSS W/ IMBD SMLL TO TR LRG CALS XLS, IMBD WHT CHRT IP, GRDNG TO ABDT SFT WHT TO FRM CHLK, BRIT YEL GLD FLO IP TO NO FLO, PR TO TR FR MICROVUG TO TR PR INTERFOSS POR, SLI TR MICRO OOLMLD POR IN 20%, WK FLSTH TO WK SLO STRM CUT IN 10-20% IN TOP 1', FLEETING ODOR

3315 TO 21 LS- OFF WHT TO CRM- MD HD TO SFT, ABDT CHLKY MTRX , TR F-XLN , RE-XLN MICRO OOL IP, NO FLO, PR VIS SCAT OOLMLD POR, NO VIS SHOW

3335 - 3338-LS - LT GY TO LT TN ( DUE TO LT TN STN IP) HD DNS F-VF-XLN HVY TR MD CALC XLS ON ONE FACES OF ROCK, BRIT YEL GLD FLO IP ON SRFCE OF RCK ONLY, SLI TR PR MICRO PP POR IP, WK FLSTH TO WK SLO STRM CUT

**"H" ZONE 3362' - 1393'**

SH- LT TO MD GY- FRM BLKY SMTH TXT, CALC IP

LS- OFF WHT CRM BFF- MD HD TO SFT IP, SUCRO TO SUCRO S-CHLKY MTRX, SLI TR F-XLN IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM BFF- HD DNS V/F-CRYPTO-XLN, TR S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

3392 TO 3394 LS- OFF WHT CRM TN( SCAT TN STN IP)- HD DNS V/F-CRYPTO-XLN , RE-XLN IP, TR FOSS , TR MICRO OOL IP, HVY TR S-CHLKY IP W/ DOS IP, NO FLO TO BRIT YEL GLD FLO IN 30%, TR PR SCAT INTER-XLN POR SCAT, SLI TR PR INTER-FOSS POR IP, WK FLSTH CUT TO NO STRM CUT, LT OIL ODOR IN SAMPLES WET

3410- 3415 LS- OFF WHT CRM LT TN TN( TN STN SCAT IN 70%) HD DNS TO BRITT, MD-F-XLN RE-XLN MTRX, FOSS FRGS IP, SMLL CALC XLS IP, DLL YEL GLD FLO IP TO BRIT YEL GLD FLO IP, PR TO FR VIS SCAT INTER-XLN POR IP TO PR VIS INTER-FOSS POR IP, FR FLSTH CUT TO GD SLO STRM CUT IP. LT OIL ODOR

LS- CRM BFF- HD DNS TO BRITT IP, F-VF-XLN , TR S-CHLKY IP, TR SMLL CALC XLS IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- RD- FRM BLKY TO V/ SFT GMMY

LS- OFF WHT CRM - HD DNS TO SLI BRITT, MD-F-XLN, RE-XLN MTRX IP, ABDT VRGTD SMLL CALC XLS IP, NO FLO , NO VIS POR, NO VIS SHOW

**BKC 3451' - 1482'**

LS- CRM BFF- MD HD TO BRITT, V/ SUCRO MTRX TR IMBD RED SH IP, SLI TR CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM OFF WHT- HD TO MD HD V/ SUCRO TO S-CHLKY MTRX, ABDT IMBD S-RND F-GRN QURTZ IP, HVY TR IMBD RS SH IP, NO FLO, NO VIS POR , NO VIS SHOW

SH- RED PRPLE GRN- FRM BLKY V/ CALC TO LMY IP

LS- CRM BFF- HD DNS TO TR BRITT, MD-F-XLN , RE-XLN MTRX, FOSS FRGS SCAT THRU, TR SMLL OOL IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- RED PRPLE GRN MAGENTA- FRM BLKY V/ CALC IP TO V/ SFT

LS- CRM BFF- HD DNS TO BRITT, MD-F-XLN TO SUCRO MTRX IP, TR FOSS IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- RED PRPLE FRM BLKY IP TO SFT SLTY W/ ABDT RED WHT TRNSLCNT CHRT, TR FREE MD S-RND CLR QURTZ GRNS

CONG- RED SH- FRM BLKY, WHT TRNSLCNT RE CHRT, SMLL QURTZ S-ANG CLSTRS TR HEMATITE EMBED, TR WTHRD CHRT

SH- GRN TO EMERALD GRN , V/ SFT WXY TXT

3535 TO 3542 METAMORPHIC QUATZITE- CLR FRSTY GRN, HD DNS , SMLL MD LRG ANG QURTZ CHARDS, W/ HVY TR IMBD GRN SH IP, HVY MIN THRU, SLI TR FLDSPP, NO FLO NO VIS POR, NO FLSTH CUT TO STRNG GSSY CUT

3543 TO 3550' META QURTZITE- CLR FRSTY , HD DNS, SMLL MD TO LRG AND QURTZ CHARDS, HVY MIN THRU, SCT TR IMBD GRN CLAY, NO FLO, NO VIS POR, NO VIS CUT OR SHOW

META QURTZITE- CLR FRSTY , HD DNS, SMLL MD TO LRG AND QURTZ CHARDS, HVY MIN THRU, SCT TR IMBD GRN CLAY, TR FLDSPP IP, NO FLO, NO VIS POR, NO VIS CUT OR SHOW

META QUARTZITE- CLR FRSTY LT GY- HD DNS, SMLL MD TO LRG QURTZ CHARDS, HVY MIN , TR LMNTD GRN SH IP, HVY TR FLDSPP, NO FLO, NO VIS POR, NO VIS SHOW

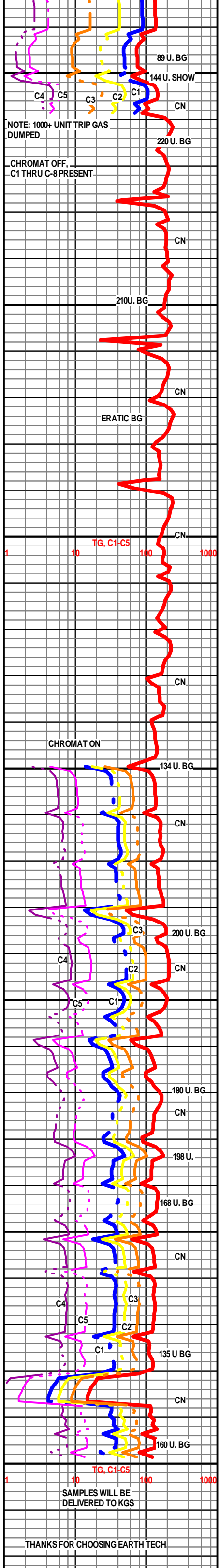
META QURTZITE- CLR FRSTY HD DNS QURTZ GRNS, SMLL TO MD S-RND TO ANG , HVY MIN , TR FLDSPP IP, NO FLO NOVIS POR, NO VIS SHOW

RTD @ 10:02 AM 9/28/2010

CTCH 2.5 HRS

TOFL

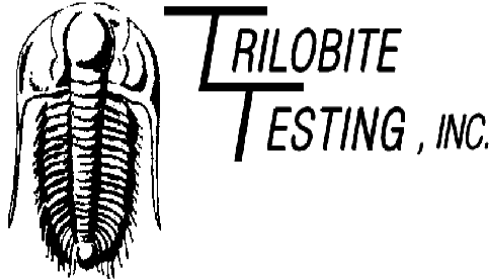
WEATHERFORD/ LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

THANKS FOR CHOOSING EARTH TECH





## DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

ATTN: Clayton Cammozi

**10/16S/16W-Rush**

**Schenkel-Zimmerman 1-10**

Start Date: 2010.09.26 @ 12:19:57

End Date: 2010.09.26 @ 19:05:57

Job Ticket #: 39572                      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.

**Schenkel-Zimmerman 1-10**

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

**10/16S/16W-Rush**

Job Ticket: 39572

**DST#: 2**

ATTN: Clayton Cammozi

Test Start: 2010.09.26 @ 12:19:57

## GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:57

Time Test Ended: 19:05:57

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 44

**Interval: 3229.00 ft (KB) To 3250.00 ft (KB) (TVD)**

Reference Elevations: 1969.00 ft (KB)

Total Depth: 3250.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8321 Outside**

Press @ Run Depth: 119.50 psig @ 3230.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.26 End Date: 2010.09.26

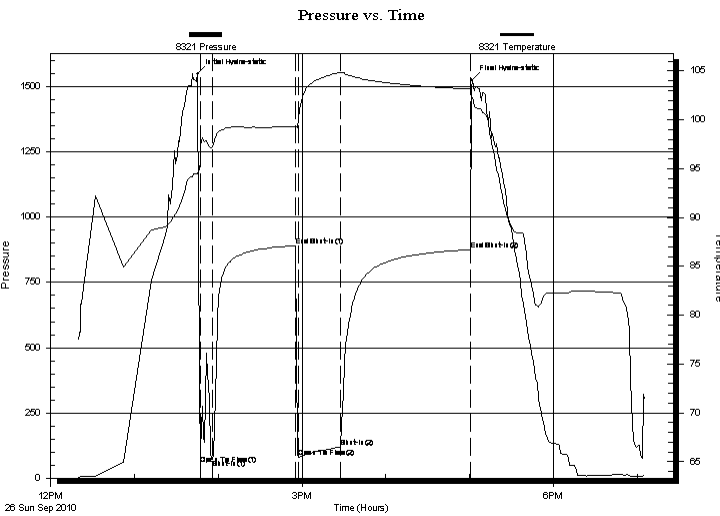
Last Calib.: 2010.09.26

Start Time: 12:19:58 End Time: 19:05:57

Time On Btm: 2010.09.26 @ 13:45:27

Time Off Btm: 2010.09.26 @ 17:01:57

**TEST COMMENT:** IF- Strong building blow . BOB in 8 minutes.  
IS- No Return.  
FF- Strong building blow . BOB in 3 minutes.  
FS- Return at 30 seconds. Built to 4 inches. GIP-540'



## PRESSURE SUMMARY

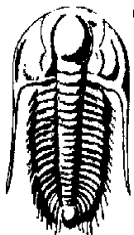
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1549.22	94.46	Initial Hydro-static
2	53.28	95.71	Open To Flow (1)
11	70.59	97.21	Shut-In(1)
70	890.76	99.32	End Shut-In(1)
72	81.25	100.03	Open To Flow (2)
102	119.50	104.82	Shut-In(2)
195	875.46	103.16	End Shut-In(2)
197	1526.91	102.29	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
120.00	10%Mud/80%Water/10%Oil	1.68
60.00	10%Mud/10%Water/60%Oil/20%Gas	0.84
60.00	10%Mud/30%Water/40%Oil/20%Gas	0.84
30.00	100%Mud	0.42
0.00	540' GIP	0.00

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



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

ATTN: Clayton Cammozi

**Schenkel-Zimmerman 1-10**

**10/16S/16W-Rush**

Job Ticket: 39572

**DST#: 2**

Test Start: 2010.09.26 @ 12:19:57

## GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:57

Time Test Ended: 19:05:57

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 44

**Interval: 3229.00 ft (KB) To 3250.00 ft (KB) (TVD)**

Total Depth: 3250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1969.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8679 Inside**

Press @ Run Depth: psig @ 3230.00 ft (KB)

Start Date: 2010.09.26 End Date: 2010.09.26

Start Time: 12:21:21 End Time: 19:05:50

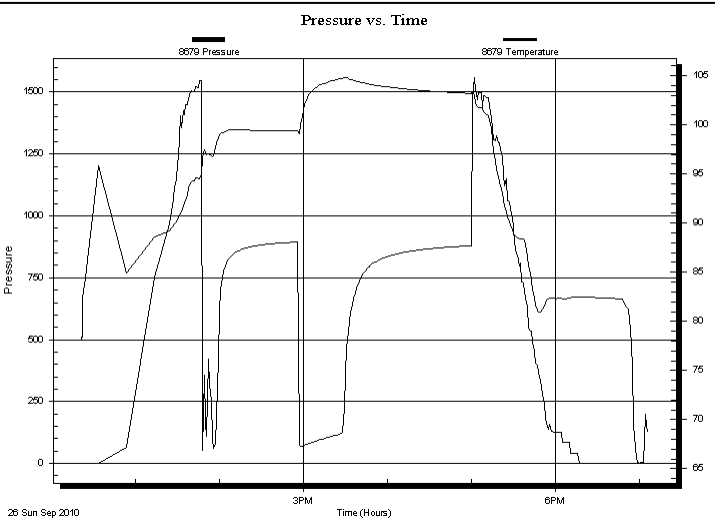
Capacity: 8000.00 psig

Last Calib.: 2010.09.26

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF- Strong building blow . BOB in 8 minutes.  
IS- No Return.  
FF- Strong building blow . BOB in 3 minutes.  
FS- Return at 30 seconds. Built to 4 inches. GIP-540'



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	10%Mud/80%Water/10%Oil	1.68
60.00	10%Mud/10%Water/60%Oil/20%Gas	0.84
60.00	10%Mud/30%Water/40%Oil/20%Gas	0.84
30.00	100%Mud	0.42
0.00	540' GIP	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.

**Schenkel-Zimmerman 1-10**

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

**10/16S/16W-Rush**

Job Ticket: 39572

**DST#: 2**

ATTN: Clayton Cammozi

Test Start: 2010.09.26 @ 12:19:57

## Tool Information

Drill Pipe:	Length: 3210.00 ft	Diameter: 3.80 inches	Volume: 45.03 bbl	Tool Weight: 2500.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 45.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3229.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	49.00 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			3202.00	
Shut In Tool	5.00			3207.00	
Hydraulic tool	5.00			3212.00	
Jars	5.00			3217.00	
Safety Joint	2.00			3219.00	
Packer	5.00			3224.00	28.00 Bottom Of Top Packer
Packer	5.00			3229.00	
Stubb	1.00			3230.00	
Recorder	0.00	8679	Inside	3230.00	
Recorder	0.00	8321	Outside	3230.00	
Perforations	17.00			3247.00	
Bullnose	3.00			3250.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Assoc.

**Schenkel-Zimmerman 1-10**

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

**10/16S/16W-Rush**

Job Ticket: 39572

**DST#: 2**

ATTN: Clayton Cammozi

Test Start: 2010.09.26 @ 12:19:57

## 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: 145000 ppm	
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.07 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	10%Mud/80%Water/10%Oil	1.683
60.00	10%Mud/10%Water/60%Oil/20%Gas	0.842
60.00	10%Mud/30%Water/40%Oil/20%Gas	0.842
30.00	100%Mud	0.421
0.00	540' GIP	0.000

Total Length: 270.00 ft      Total Volume: 3.788 bbl

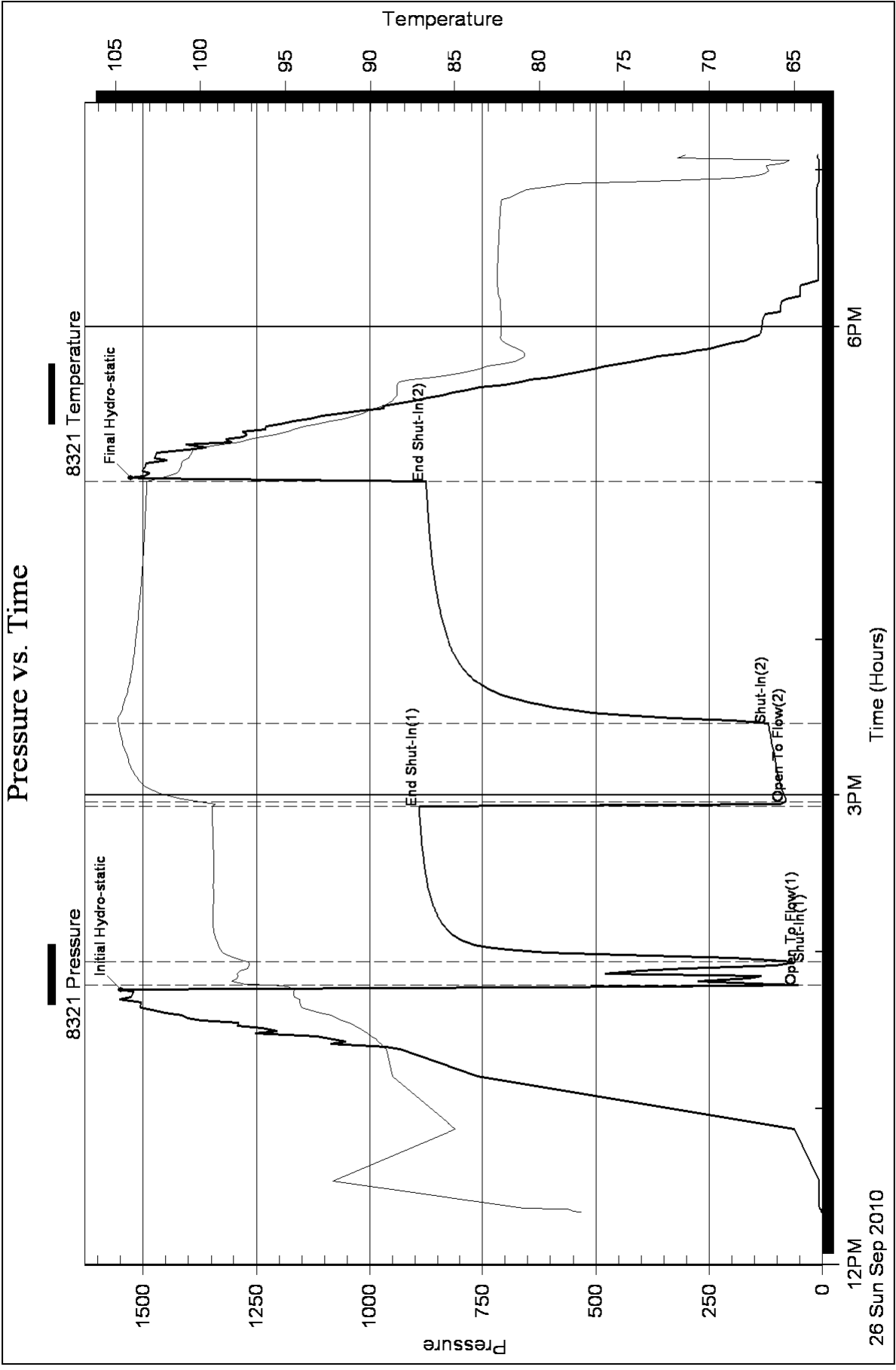
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

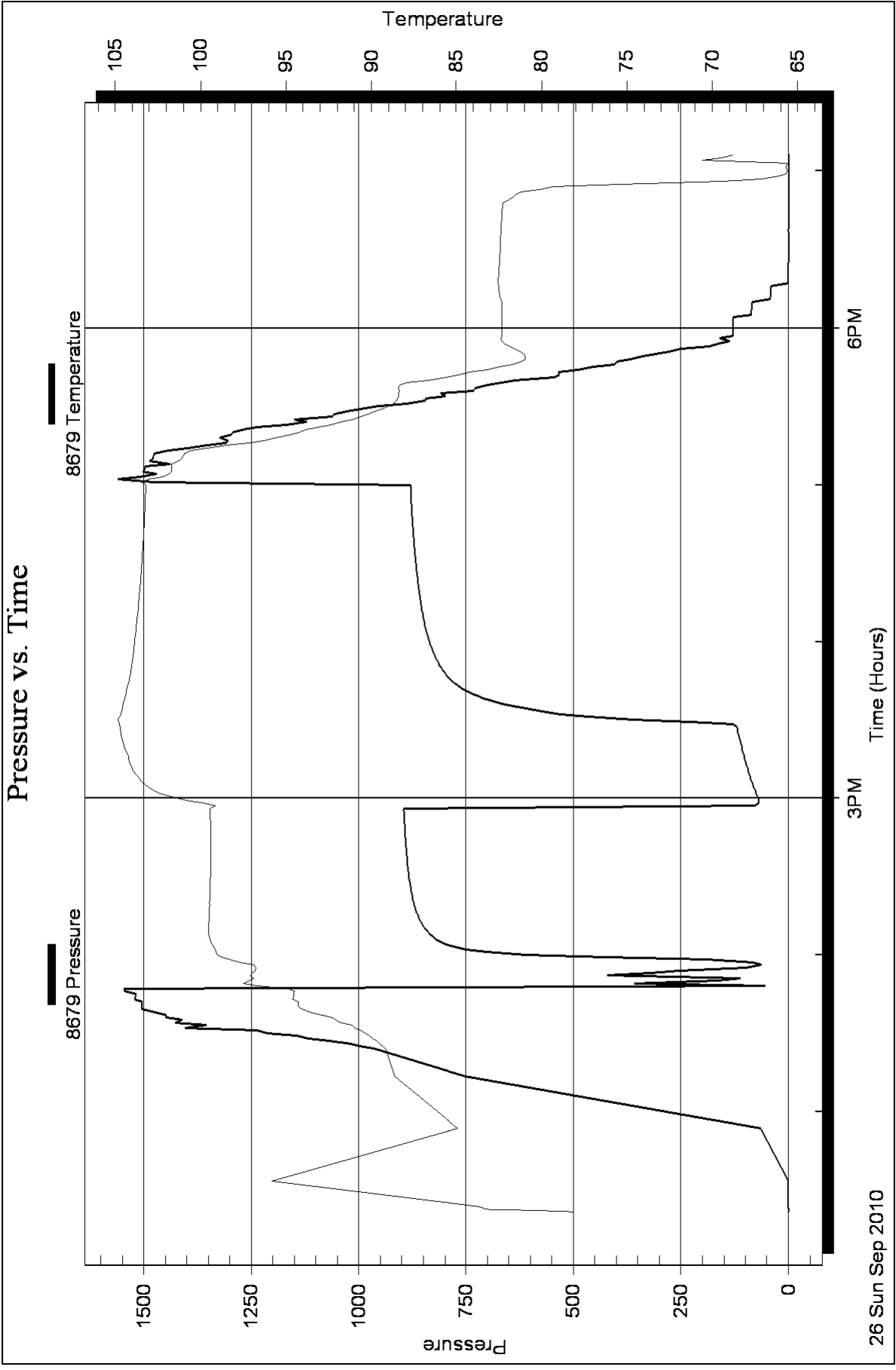
Laboratory Name:      Laboratory Location:

Recovery Comments:

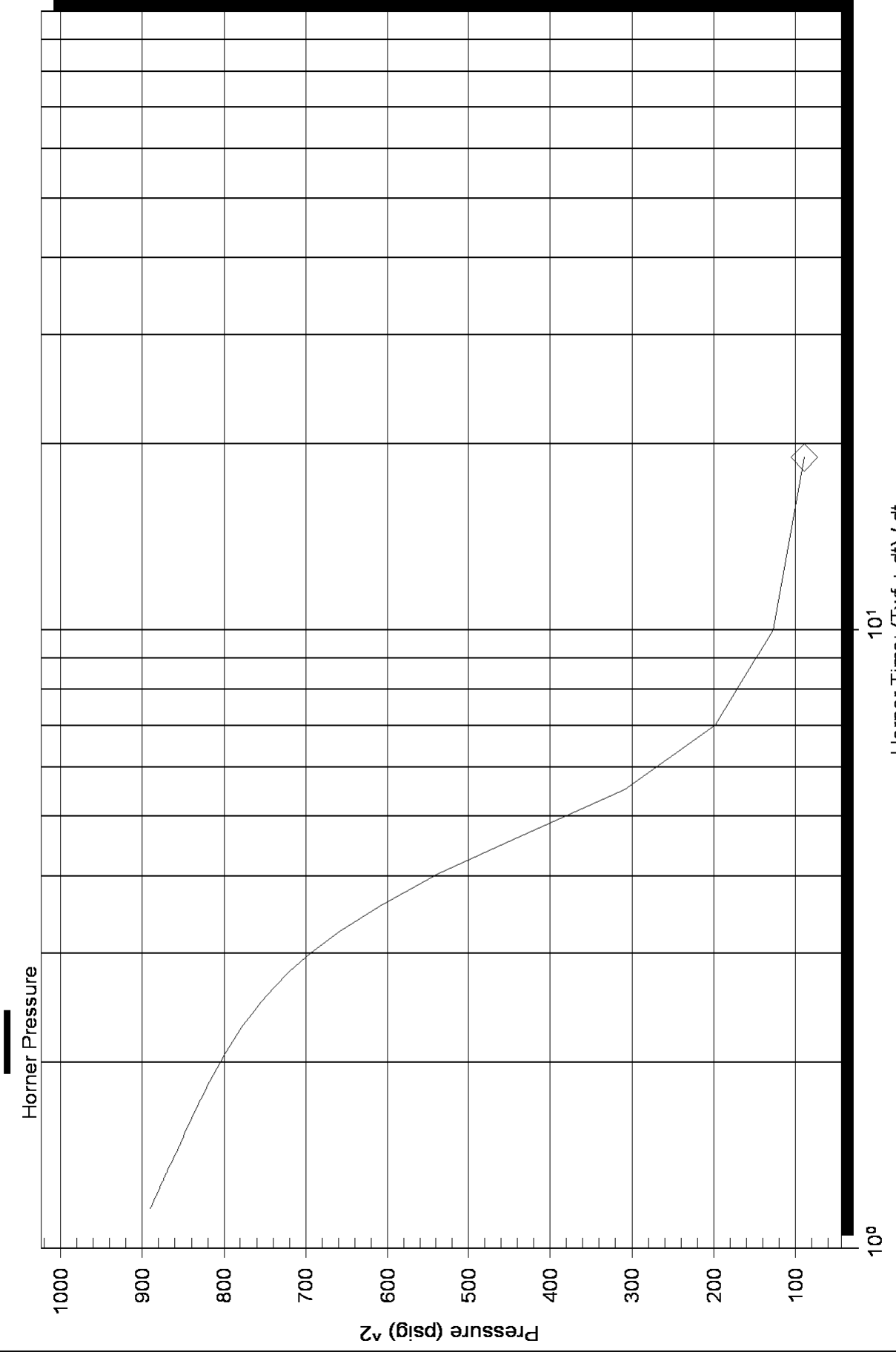


### Pressure vs. Time

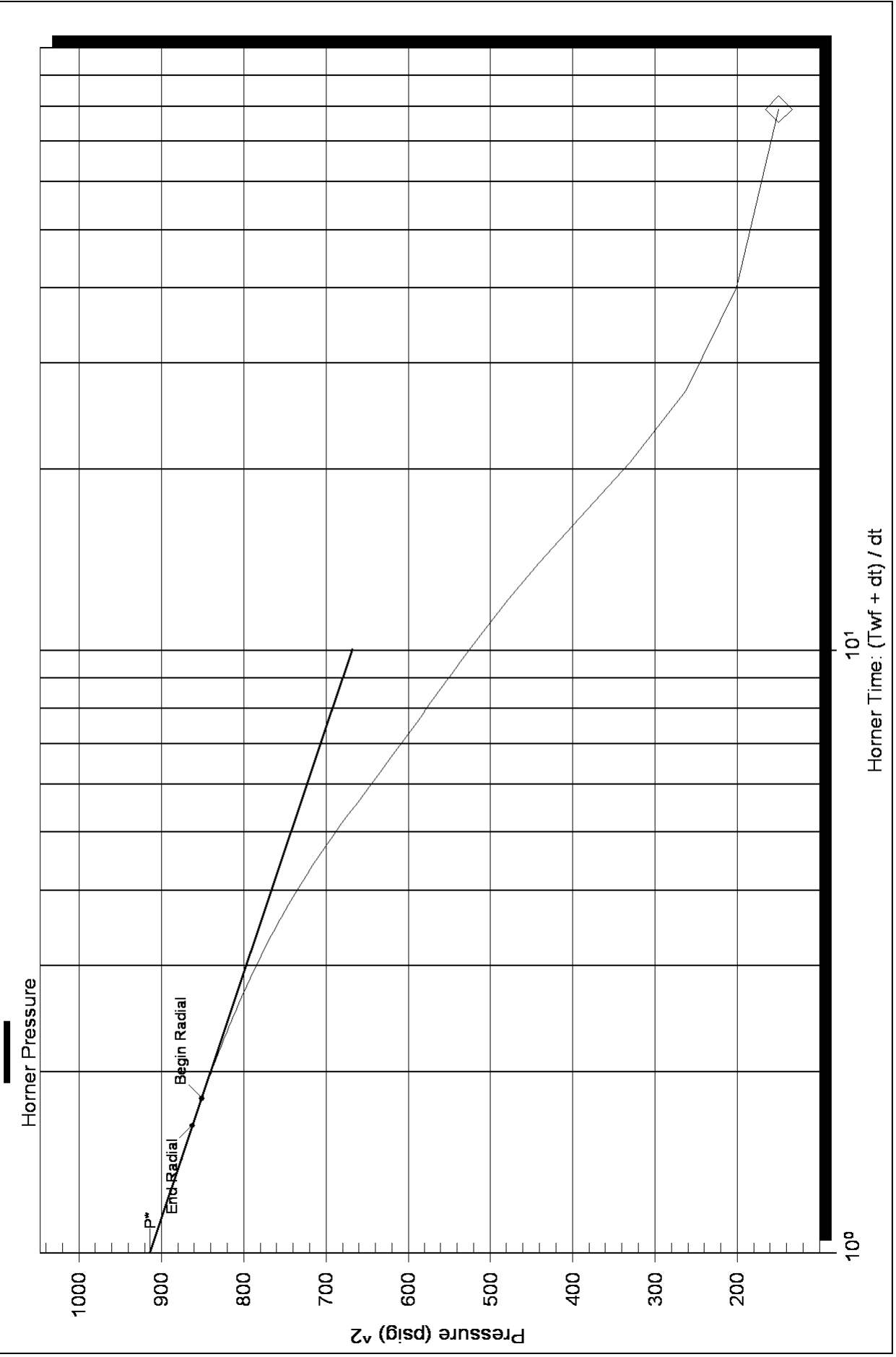




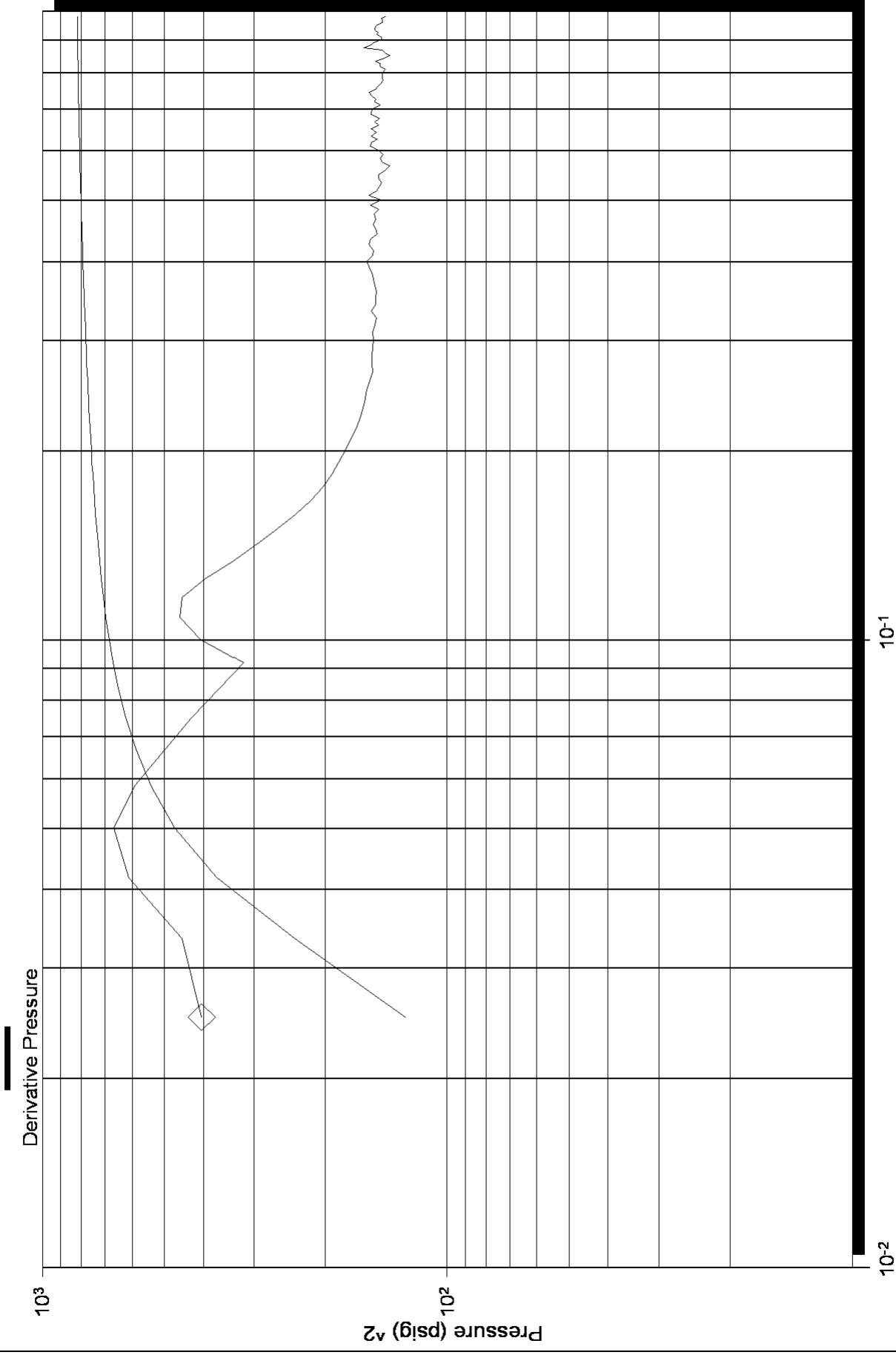
### Homer Plot



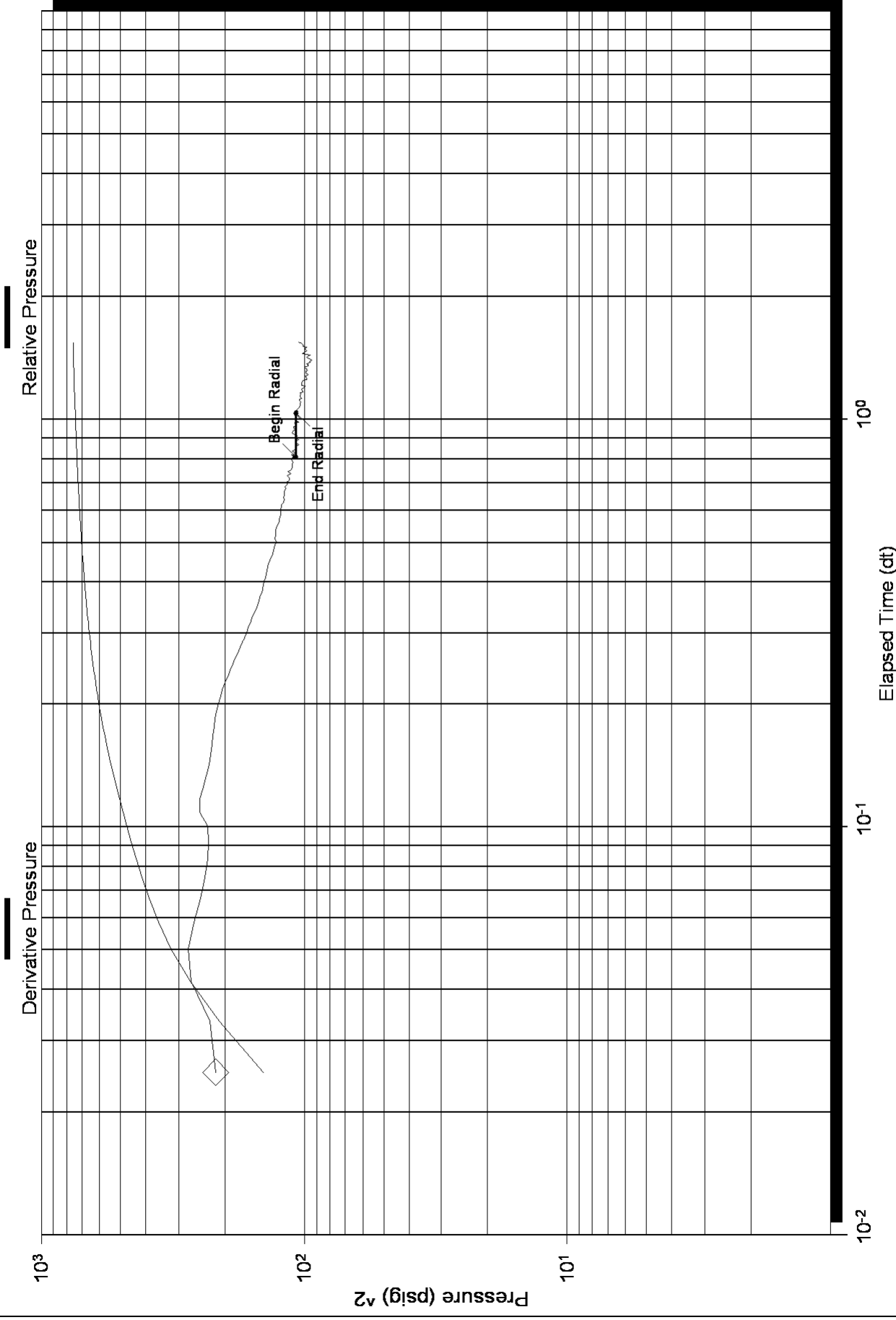
### Homer Plot



# Log-Log and Pseudo-Log-Derivative



# Log-Log and Pseudo-Derivative





## DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

ATTN: Clayton Cammozi

**10/16S/16W-Rush**

**Schenkel-Zimmerman 1-10**

Start Date: 2010.09.27 @ 05:23:10

End Date: 2010.09.27 @ 12:21:10

Job Ticket #: 39573                      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.

**Schenkel-Zimmerman 1-10**

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

**10/16S/16W-Rush**

Job Ticket: 39573

**DST#: 3**

ATTN: Clayton Cammozi

Test Start: 2010.09.27 @ 05:23:10

## GENERAL INFORMATION:

Formation: **Lansing D,F, & Upper**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:33:40

Time Test Ended: 12:21:10

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 44

**Interval: 3256.00 ft (KB) To 3309.00 ft (KB) (TVD)**

Reference Elevations: 1969.00 ft (KB)

Total Depth: 3309.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8321 Inside**

Press @ Run Depth: 224.08 psig @ 3291.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.27 End Date: 2010.09.27

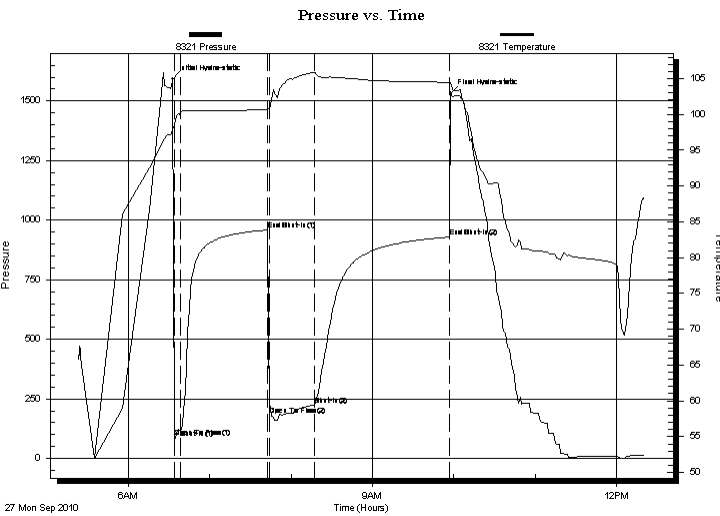
Last Calib.: 2010.09.27

Start Time: 05:23:11 End Time: 12:21:10

Time On Btm: 2010.09.27 @ 06:32:40

Time Off Btm: 2010.09.27 @ 09:57:40

**TEST COMMENT:** IF-Strong blow . BOB in 2 minutes.  
 IS-No Return.  
 FF-Strong blow . BOB in 2 minutes.  
 FSI-Return @ 30 seconds. Built to 4 inches. GIP-540'



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.90	97.84	Initial Hydro-static
1	88.62	98.52	Open To Flow (1)
6	120.90	100.22	Shut-In(1)
70	958.56	100.70	End Shut-In(1)
71	183.53	100.81	Open To Flow (2)
105	224.08	105.84	Shut-In(2)
204	929.75	104.48	End Shut-In(2)
205	1531.23	104.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	5%Mud/15%Water/60%Oil/20%Gas	2.52
60.00	5%Mud/15%Water/20%Oil/60%Gas	0.84
60.00	20%Mud/20%Water/40%Oil/20%Gas	0.84
40.00	100%Mud	0.56

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Assoc.

**Schenkel-Zimmerman 1-10**

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

**10/16S/16W-Rush**

Job Ticket: 39573

**DST#: 3**

ATTN: Clayton Cammozi

Test Start: 2010.09.27 @ 05:23:10

## Tool Information

Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 bbl	Tool Weight: 2500.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 45.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3256.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			3229.00	
Shut In Tool	5.00			3234.00	
Hydraulic tool	5.00			3239.00	
Jars	5.00			3244.00	
Safety Joint	2.00			3246.00	
Packer	5.00			3251.00	28.00 Bottom Of Top Packer
Packer	5.00			3256.00	
Stubb	1.00			3257.00	
Change Over Sub	1.00			3258.00	
Drill Pipe	32.00			3290.00	
Change Over Sub	1.00			3291.00	
Recorder	0.00	8321	Inside	3291.00	
Recorder	0.00	8679	Outside	3291.00	
Perforations	15.00			3306.00	
Bullnose	3.00			3309.00	53.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Assoc.

**Schenkel-Zimmerman 1-10**

1515 Wynkoop St. Ste. #700  
Denver, Co 80202

**10/16S/16W-Rush**

Job Ticket: 39573

**DST#: 3**

ATTN: Clayton Cammozi

Test Start: 2010.09.27 @ 05:23:10

## 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:

6800 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.73 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	5%Mud/15%Water/60%Oil/20%Gas	2.525
60.00	5%Mud/15%Water/20%Oil/60%Gas	0.842
60.00	20%Mud/20%Water/40%Oil/20%Gas	0.842
40.00	100%Mud	0.561

Total Length: 340.00 ft

Total Volume: 4.770 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

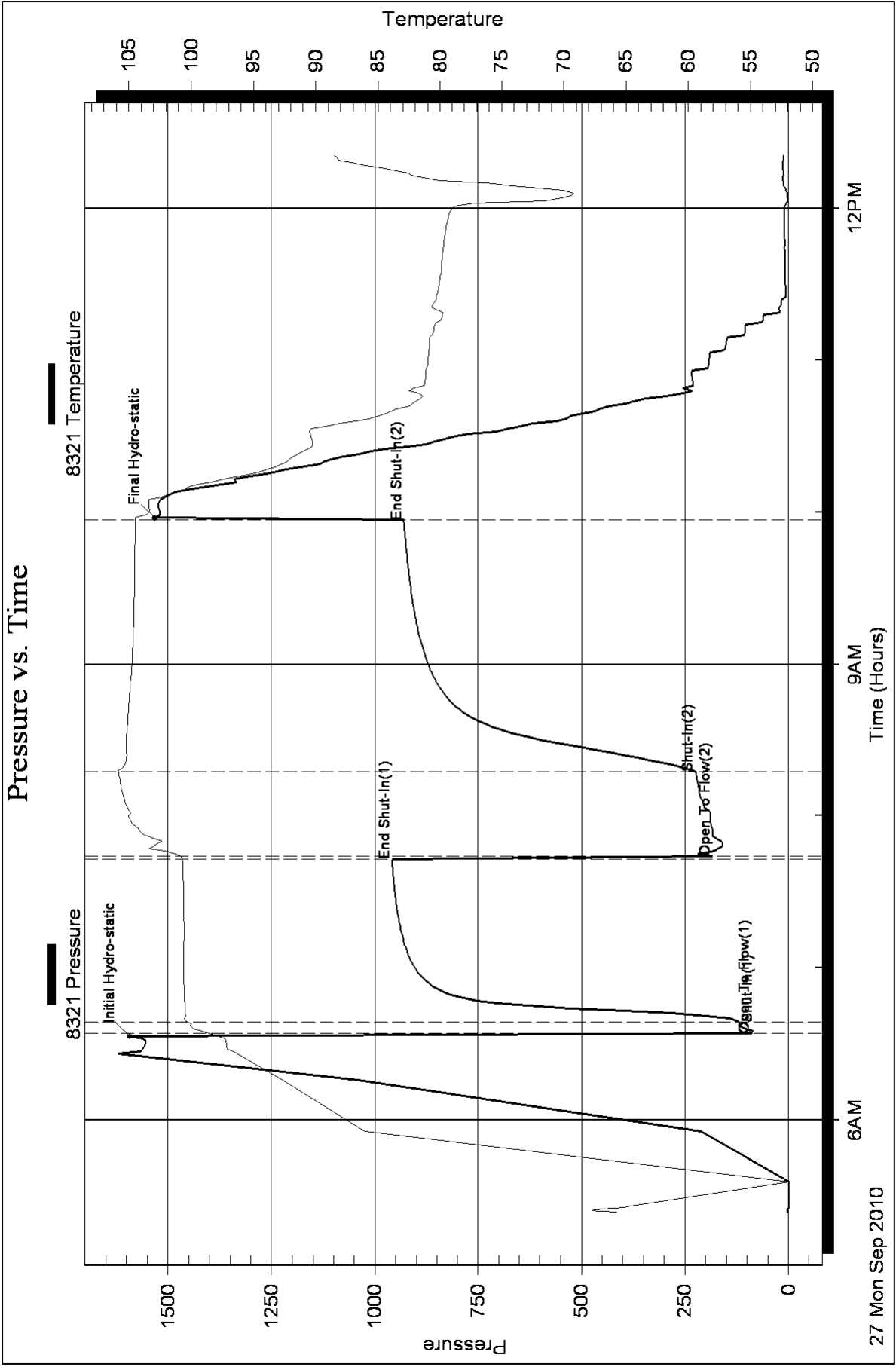
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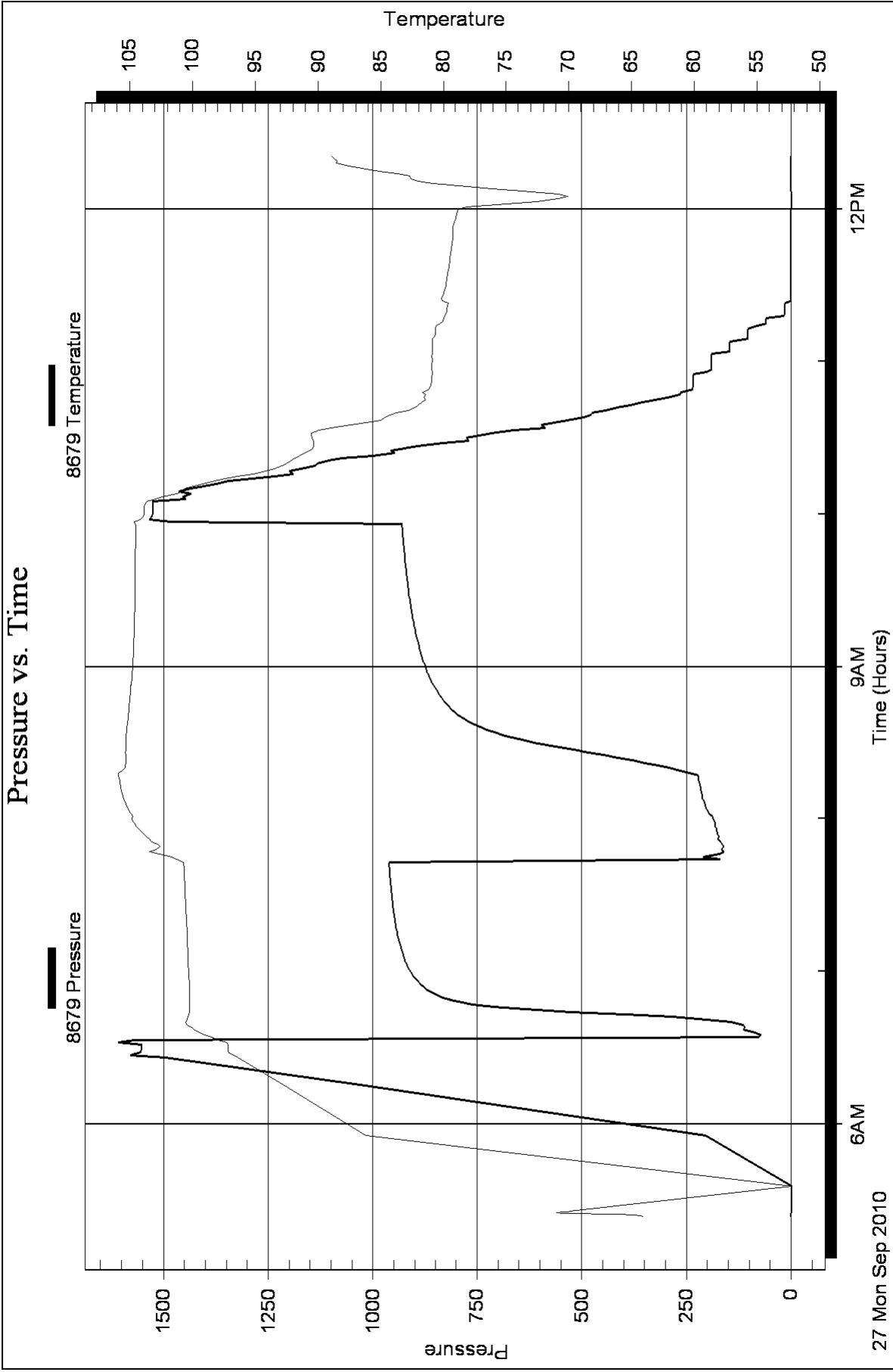
Laboratory Name:

Laboratory Location:

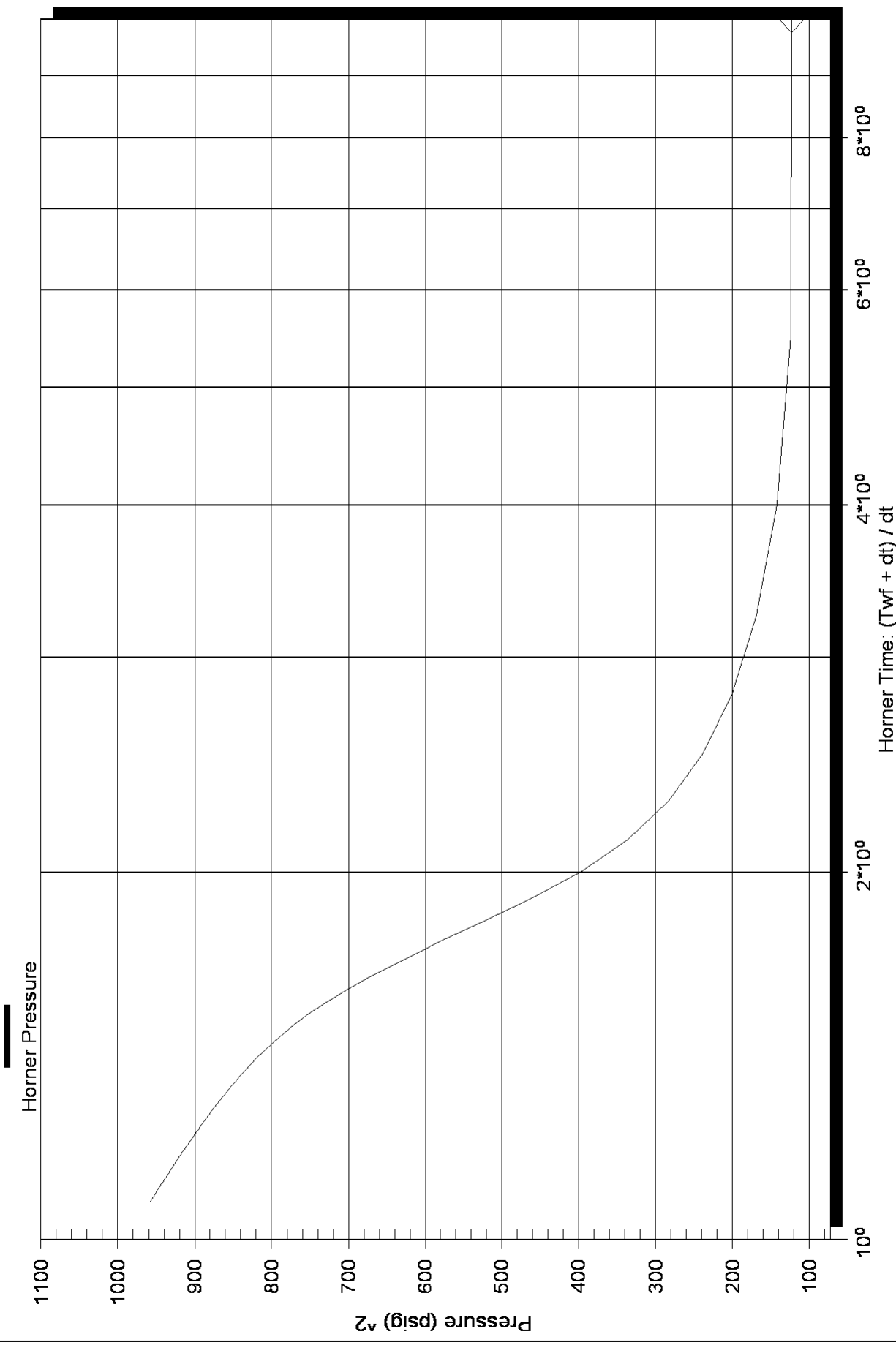
Recovery Comments: 540'-GIP

### Pressure vs. Time

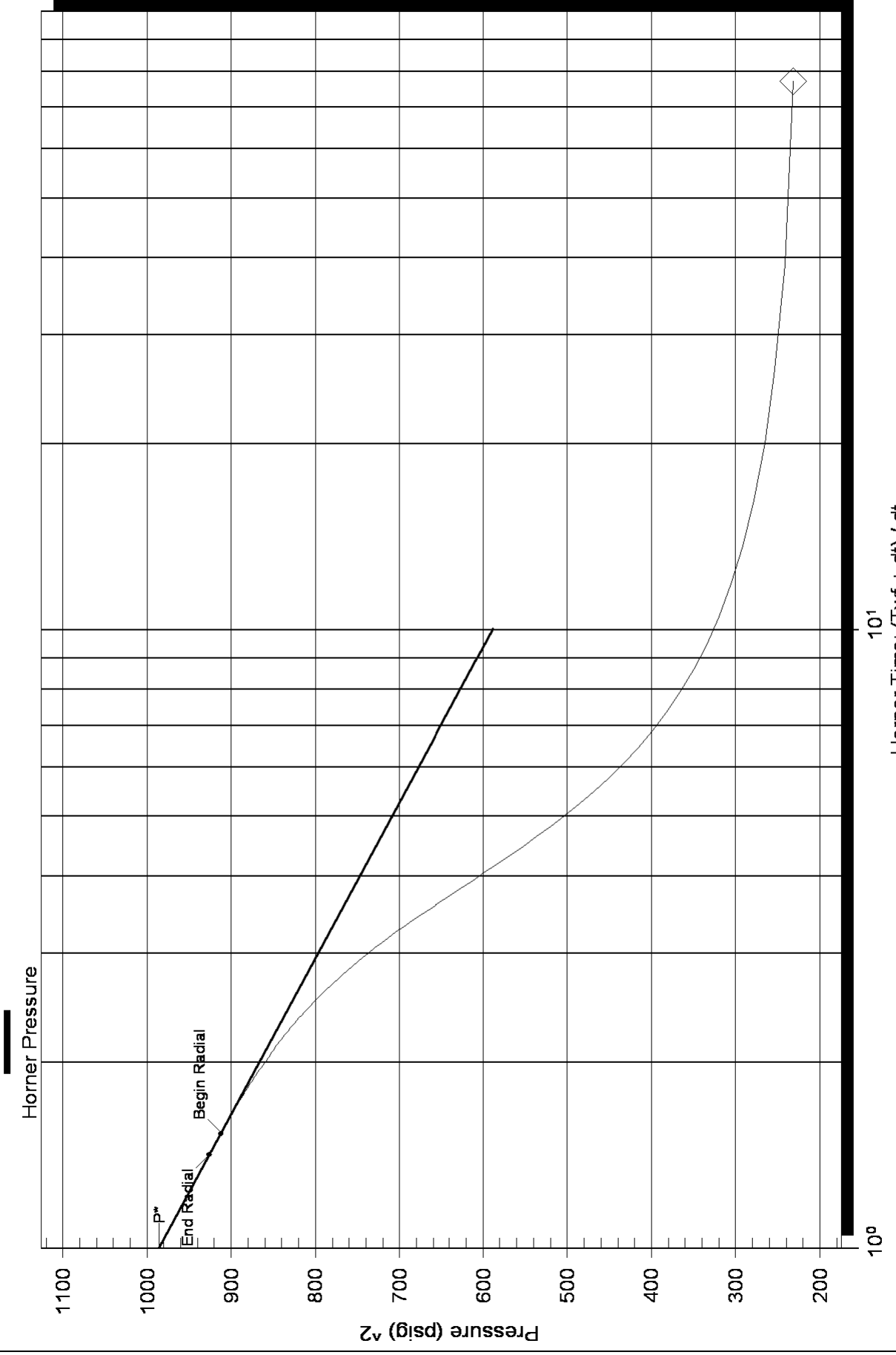




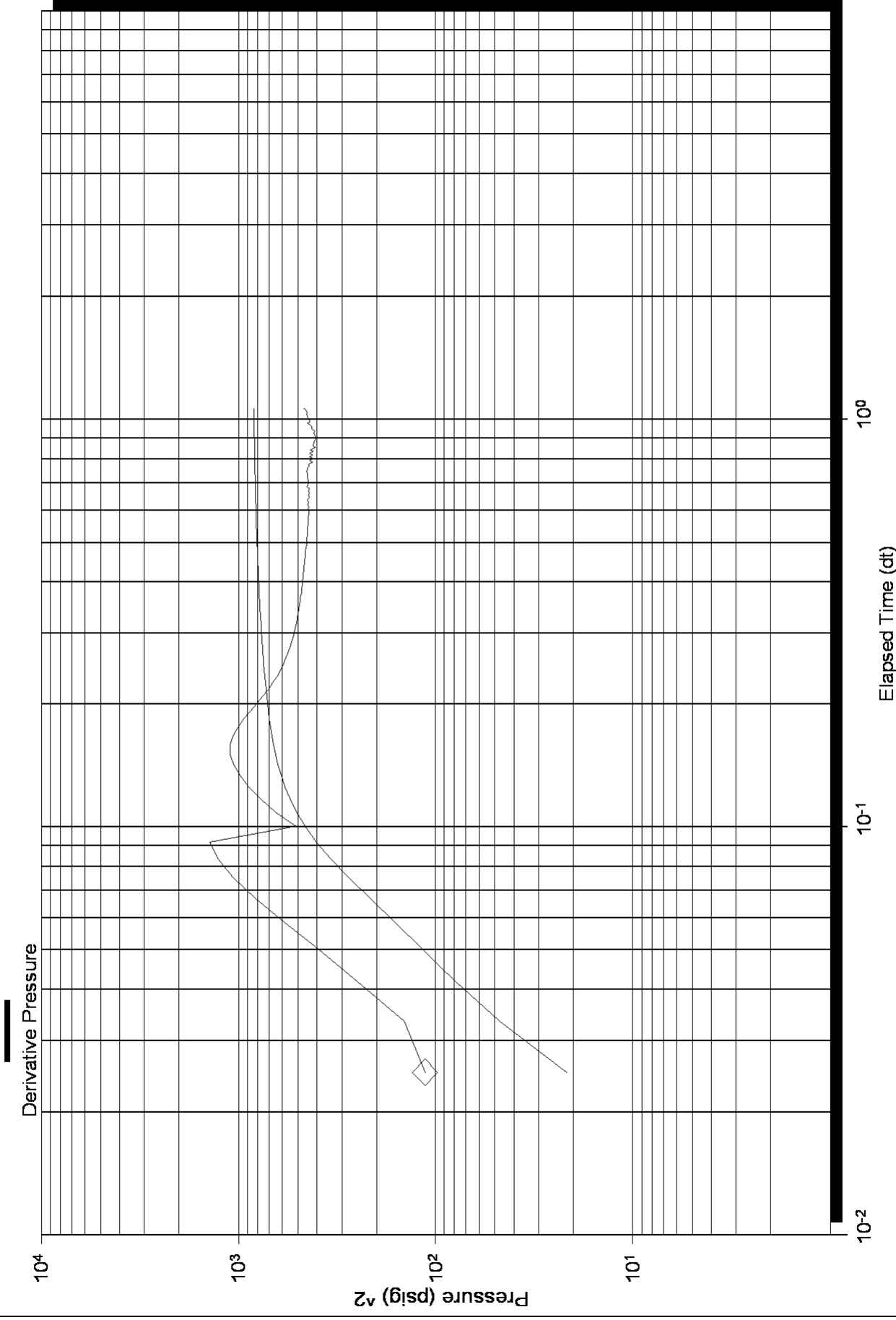
### Homer Plot



### Homer Plot



# Log-Log and Pseudo-Derivative





# Log-Log and Pseudo-Derivative

