



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1098196
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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



1098196

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	COPPER 1-30
Doc ID	1098196

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL GR

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	COPPER 1-30
Doc ID	1098196

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3220-3227	500 GAL 28% MCA W/ 3% MAS	3220-3227
4	3239-3247	1000 GAL 28% MCA W/ 3% MAS	3239-3247
4	3259-3267		3259-3267
	3365	CIBP	3365
4	3376-3382		3376-3382
4	3404-3408	250 GAL 28% MCA W/ 3% MAS	3404-3408
4	3418-3426	250 GAL 28% MCA W/ 3% MAS	3418-3426

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



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 22, 2012

TOM FERTAL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26330-00-00
COPPER 1-30
SE/4 Sec.30-14S-17W
Ellis County, Kansas

Dear Production Department:

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

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
TOM FERTAL



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: 7/4/2012
 Invoice # 696

P.O.#:
 Due Date: 8/3/2012
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference: Copper
 COOPER 1-30

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$49.32	No
Common-Class A	425	\$ 5,473.06	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	448	\$ 945.78	No				
Calcium Chloride	15	\$ 754.62	Yes				
Flo Seal	106	\$ 223.78	Yes				
3 5/8" Centralizer	3	\$ 202.67	Yes				
Premium Gel (Bentonite)	8	\$ 137.48	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				
Pump Truck Mileage-Job to Nearest Camp	8	\$ 84.28	No				

Invoice Terms:

Net 30

SubTotal: \$ 10,042.37

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,506.35)

SubTotal for Taxable Items: \$ 6,799.28

SubTotal for Non-Taxable Items: \$ 1,736.74

Total: \$ 8,536.01

Tax: \$ 428.35

6.30% Ellis County Sales Tax

Amount Due: \$ 8,964.37

Applied Payments:

Balance Due: \$ 8,964.37

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed

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RECEIVED

JUL 11 2012

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

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

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. 696

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-28-12	30	14	17	Ellis	KS		10:30 a.m.
Lease <i>Cooper</i>	Well No. <i>1-30</i>		Location <i>Munjer 1s 1/2 F Pinto</i>				
Contractor <i>Discovery #2</i>				Owner			
Type Job <i>Surface</i>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <i>12 1/4</i>	T.D. <i>987</i>		Charge To <i>Sem Co. / Jr & Assoc.</i>				
Csg. <i>8 5/8</i>	Depth <i>987</i>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. <i>41.54</i>	Shoe Joint <i>41.54</i>		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <i>60 1/4 BBL</i>		Cement Amount Ordered <i>425 lbm 30/44 20/61 1 1/4 #10</i>				
EQUIPMENT							
Pumptrk <i>9</i>	No.	Cementer <i>Craig</i>	Common <i>425</i>				
Bulktrk	No.	Helper <i>Matt</i>	Poz. Mix				
Bulktrk <i>13</i>	No.	Driver <i>Lennie</i>	Gel. <i>8</i>				
JOB SERVICES & REMARKS			Calcium <i>15</i>				
Remarks:			Hulls				
Rat Hole			Salt				
Mouse Hole			Flowseal <i>106 #</i>				
Centralizers			Kol-Seal				
Baskets			Mud CLR 48				
D/V or Port Collar			CFL-117 or CD110 CAF 38				
<i>8 5/8 on bottom. Est. Circulation Pump</i>			Sand				
<i>10 BBL water spacer then mix 425 SK</i>			Handling <i>448</i>				
<i>Cement Displace Plug Cement</i>			Mileage				
<i>Circulation</i>			FLOAT EQUIPMENT				
<i>Plug landed south.</i>			Guide Shoe <i>8 5/8</i>				
			Centralizer <i>3</i>				
			Baskets <i>3</i>				
			AFU Inserts <i>Baffle Plate</i>				
			Float Shoe <i>Rubber Plug</i>				
			Latch Down				
			Pumptrk Charge <i>Long Surface</i>				
			Mileage <i>8</i>				
X Signature <i>[Signature]</i>			Tax				
			Discount				
			Total Charge				



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruralnet.net

Date: 7/9/2012
 Invoice # 892

P.O.#:

Due Date: 8/8/2012

Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 COPPER 1-30

Description of Work:
 PROD LONG STRING

RECEIVED

JUL 17 2012

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

DRLG COMP W/O LOE GG

Account	8300.238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor	\$ 963.85	No	Salt (Fine)	19	\$279.98	Yes
Common-Class A	\$ 2,897.50	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Gilsonite	\$ 1,673.58	Yes	Flo Seal	56	\$118.22	Yes
CFL 117	\$ 1,144.39	Yes	Pump Truck Mileage-Job to Nearest Camp	8	\$84.28	No
5 1/2" Basket	\$ 728.33	Yes	KCL	2	\$63.04	Yes
Bulk Truck Mat-Material Service Charge	\$ 536.22	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$49.32	No
CD-110	\$ 494.00	Yes				
5 1/2" Turbolizer	\$ 489.78	Yes				
Mud Clear	\$ 390.56	Yes				
Defoamer A or CAF-38	\$ 369.44	Yes				
Auto Fill Float Shoe, 5 1/2"	\$ 323.00	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 10,841.93
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,626.29)

SubTotal for Taxable Items:	\$ 7,827.03
SubTotal for Non-Taxable Items:	\$ 1,388.61
Total:	\$ 9,215.64
Tax:	\$ 493.10

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 9,708.74
Applied Payments:
Balance Due: \$ 9,708.74

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 892

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-3-12	30	14	17	ELLIS	KANSAS		12:30 AM
Lease COPPER	Well No. #1-30		Location MUNDO KS, 5th Blm 020 020 020 1/4 SE N1/4				
Contractor DISCOVERY #2				Owner SAM GARY JR			
Type Job PROD. STRING				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 7 7/8"	T.D. 3610'			Charge To SAM GARY JR & ASSOC.			
Csg. 5 1/2" 15 1/2" NEW	Depth 3606.67			Street 1515 WYNKOOP STE 700			
Tbg. Size	Depth			City DENVER State CO, 80202			
Tool	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	Shoe Joint 42.47			Cement Amount Ordered 225 COM 10% salt 1/4 flow			
Meas Line	Displace 853LS			5% 91/sonto 0.3% CD-110 .8% BFT-117			
EQUIPMENT				Common 1.25% CAF-38 50 BBL PCL			
Pumptrk #15 No.	Cementer	NECK		Poz. Mix			
Bulktrk #13 No.	Driver	DOUG		Gel. CD 110 117#			
Bulktrk PLU No.	Driver	CISCO		Calcium			
JOB SERVICES & REMARKS				Hulls 14 CL. 2 gal			
Remarks:				Salt 19			
Rat Hole 30 SKS				Flowseal 56#			
Mouse Hole 15 SKS				Kol-Seal 1057#			
Centralizers 1, 3, 5, 7, 11, 13, 15				Mud CLR 48 500 GAL			
Baskets 3, 9, 15				CFL-117 or CD110 CAF 38 50#			
D/V or Port Collar				Sand 170#			
ESTABLISH CIRCULATION 45 MIN.				Handling			
ON BOTTOM - DROPPED 500 GAL MUD				Mileage			
FLUSH 20 BLS KIL - DISCONNECTED &				FLOAT EQUIPMENT			
PLUGGED RAT HOLE 30 SKS & MOUSE HOLE				Guide Shoe			
15 SKS - CONNECTED TO HEAD AND MIXED				Centralizer 8-5 1/2" CENTRALIZERS			
180 SKS DOWN HOLE - DISCONNECTED				Baskets 3-5 1/2"			
WASHED UP & DROPPED PLUG - RE -				AFU Inserts			
CONNECTED DISPLACED, PLUG LANDED				Float Shoe 1-5 1/2"			
PLUG HELD -				Latch Down 1-5 1/2" w/PLUG			
LIFT @ 1000 LBS				Pumptrk Charge PROD Long String			
PLUG LANDED @ 1400 LBS				Mileage 8			
THANK YOU!				Tax			
X Signature Sam Gary				Discount			
				Total Charge			



DRILL STEMTEST REPORT

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

1515 Wynkoop
Denver, CO. 80202

ATTN: Tom Fetal

Copper #1-30

30-14s-17w-Ellis

Start Date: 2012.07.01 @ 10:12:47

End Date: 2012.07.01 @ 19:57:32

Job Ticket #: 47823 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed 2012.07.01 @ 20:11:58



TRILOBITE TESTING, INC.

DRILL STEMTEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Elis

1515 Wynkoop
Denver, CO 80202

Copper #1-30

Job Ticket: 47823

DST#: 1

ATTN: Tom Fernal

Test Start: 2012.07.01 @ 10:12:47

GENERAL INFORMATION:

Formation: **A-BC-D**

Deviated: Nb Whipstock 0.00 ft (KB)

Time Tool Opened: 12:24:17

Time Test Ended: 19:57:32

Test Type: (Initial)

Tester: Jason McLemore

Unit Nr: 54

Interval: 3197.00 ft (KB) To 3273.00 ft (KB) (TVD)

Reference Elevations: 1942.00 ft (KB)

Total Depth: 3273.00 ft (KB) (TVD)

1934.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: 684.09 psig @ 3265.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.01

End Date: 2012.07.01

Last Calib.: 2012.07.01

Start Time: 10:12:49

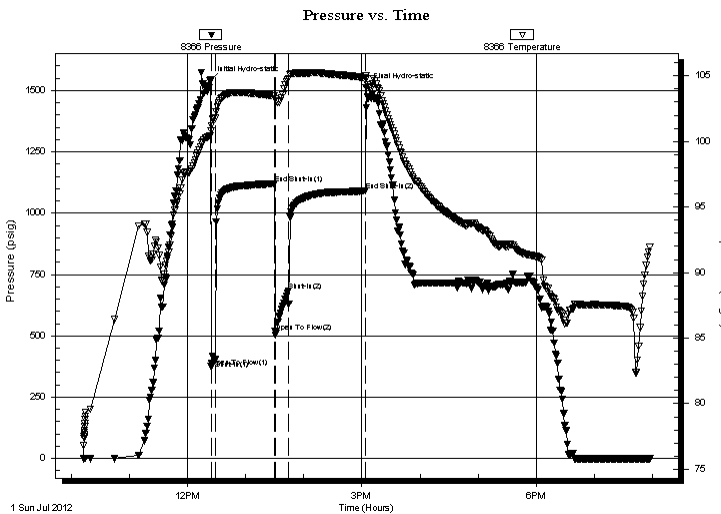
End Time: 19:57:32

Time On Btm: 2012.07.01 @ 12:23:32

Time Off Btm: 2012.07.01 @ 15:04:17

TEST COMMENT: IFF-Strong, COB in 1 Mn.
IS-Blowback COB in 3 Mn.
FFP-Strong, COB in 1 Mn. Gas To Surface in 13 Mn.
FS-Blowback COB in 2 Mn.

PRESSURE SUMMARY



Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.04	100.48	Initial Hydro-static
1	374.04	100.81	Open To Flow(1)
5	402.45	101.80	Shut-In(1)
67	1120.07	103.49	End Shut-In(1)
67	516.96	103.23	Open To Flow(2)
81	684.09	104.78	Shut-In(2)
161	1090.72	104.87	End Shut-In(2)
161	1511.84	105.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1562.00	Gassy Oil	21.64

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEMTEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Elis

1515 Wynkoop
Denver, CO 80202

Copper #1-30

Job Ticket: 47823

DST#: 1

ATTN: Tom Feral

Test Start: 2012.07.01 @ 10:12:47

GENERAL INFORMATION:

Formation: **A-BC-D**

Deviated: Nb Whipstock 0.00 ft (KB)

Time Tool Opened: 12:24:17

Time Test Ended: 19:57:32

Test Type: (Initial)

Tester: Jason McLemore

Unit Nr: 54

Interval: 3197.00 ft (KB) To 3273.00 ft (KB) (TVD)

Reference Elevations: 1942.00 ft (KB)

Total Depth: 3273.00 ft (KB) (TVD)

1934.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to CR/CF: 8.00 ft

Serial #: 8789 Outside

Press@RunDepth: psig @ 3265.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.01

End Date: 2012.07.01

Last Calib.: 2012.07.01

Start Time: 10:10:58

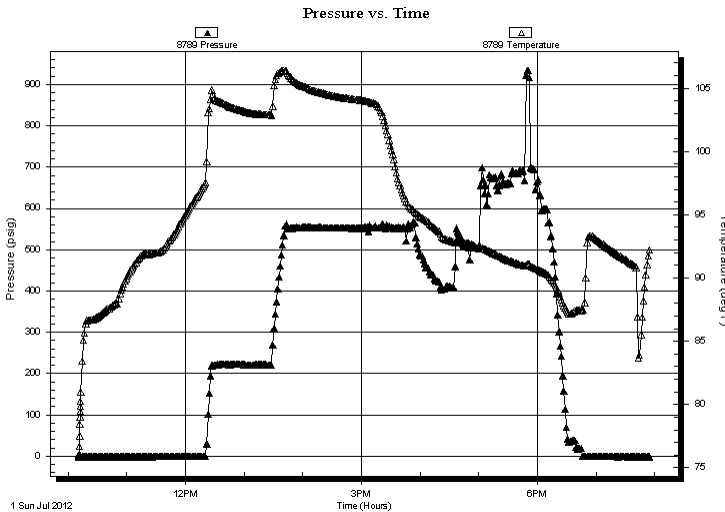
End Time: 19:55:11

Time On Btm

Time Off Btm

TEST COMMENT: IFF-Strong, BOB in 1 Mn.
IS-Blowback BOB in 3 Mn.
FFP-Strong, BOB in 1 Mn. Gas To Surface in 13 Mn.
FS-Blowback BOB in 2 Mn.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Vdume (tbl)
1562.00	Gassy Oil	21.64

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEMTEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Elis

1515 Wynkoop
Denver, CO 80202

Copper #1-30

Job Ticket: 47823

DST#: 1

ATTN: Tom Feral

Test Start: 2012.07.01 @ 10:12:47

GENERAL INFORMATION:

Formation: **A-B-C-D**

Deviated: Nb Whipstock 0.00 ft (KB)

Time Tool Opened: 12:24:17

Time Test Ended: 19:57:32

Test Type: (Initial)

Tester: Jason McLemore

Unit Nr: 54

Interval: 3197.00 ft (KB) To 3273.00 ft (KB) (TVD)

Reference Elevations: 1942.00 ft (KB)

Total Depth: 3273.00 ft (KB) (TVD)

1934.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8289 Fluid

Press@RunDepth: psig @ 3162.00 ft (KB)

Start Date: 2012.07.01

End Date: 2012.07.01

Start Time: 10:08:14

End Time: 19:52:57

Capacity: 8000.00 psig

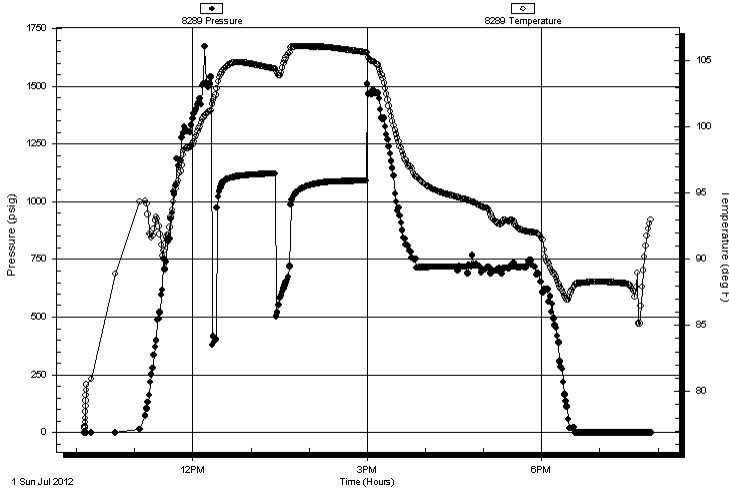
Last Calib.: 2012.07.01

Time On Btm

Time Off Btm

TEST COMMENT: IFF-Strong, BOB in 1 Mn.
IS-Blowback BOB in 3 Mn.
FFP-Strong, BOB in 1 Mn. Gas To Surface in 13 Mn.
FS-Blowback BOB in 2 Mn.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1562.00	Gassy Oil	21.64

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates

30-14s-17w-Elis

1515 Wynkoop
Denver, CO 80202

Copper #1-30

Job Ticket: 47823

DST#: 1

ATTN: Tom Feral

Test Start: 2012.07.01 @ 10:12:47

Tool Information

Drill Pipe:	Length: 3154.00 ft	Diameter: 3.80 inches	Volume: 44.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 44.39 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3197.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

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

Tool Description	Length(ft)	Serial No.	Position	Depth(ft)	Accum Lengths
Recorder	0.00	8289	Fluid	3162.00	
Change Over Sub	5.00			3167.00	
Shut In Tool	5.00			3172.00	
Sampler	3.00			3175.00	
Hydraulic tool	5.00			3180.00	
Jars	5.00			3185.00	
Safety Joint	2.00			3187.00	
Packer	5.00			3192.00	35.00 Bottom Of Top Packer
Packer	5.00			3197.00	
Stubb	1.00			3198.00	
Perforations	2.00			3200.00	
Change Over Sub	1.00			3201.00	
Blank Spacing	63.00			3264.00	
Change Over Sub	1.00			3265.00	
Recorder	0.00	8366	Inside	3265.00	
Recorder	0.00	8789	Outside	3265.00	
Perforations	5.00			3270.00	
Bullnose	3.00			3273.00	76.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

30-14s-17w-Elis

1515 Wynkoop
Denver, CO 80202

Copper #1-30

Job Ticket: 47823

DST#: 1

ATTN: Tom Feral

Test Start: 2012.07.01 @ 10:12:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.00 cm³

Gas Cushion Type:

Resistivity: ohmm

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1562.00	Gassy Oil	21.637

Total Length: 1562.00ft Total Volume: 21.637 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 75#, 4000ml Gassy Oil, point 8 CF Gas

Serial # 8366

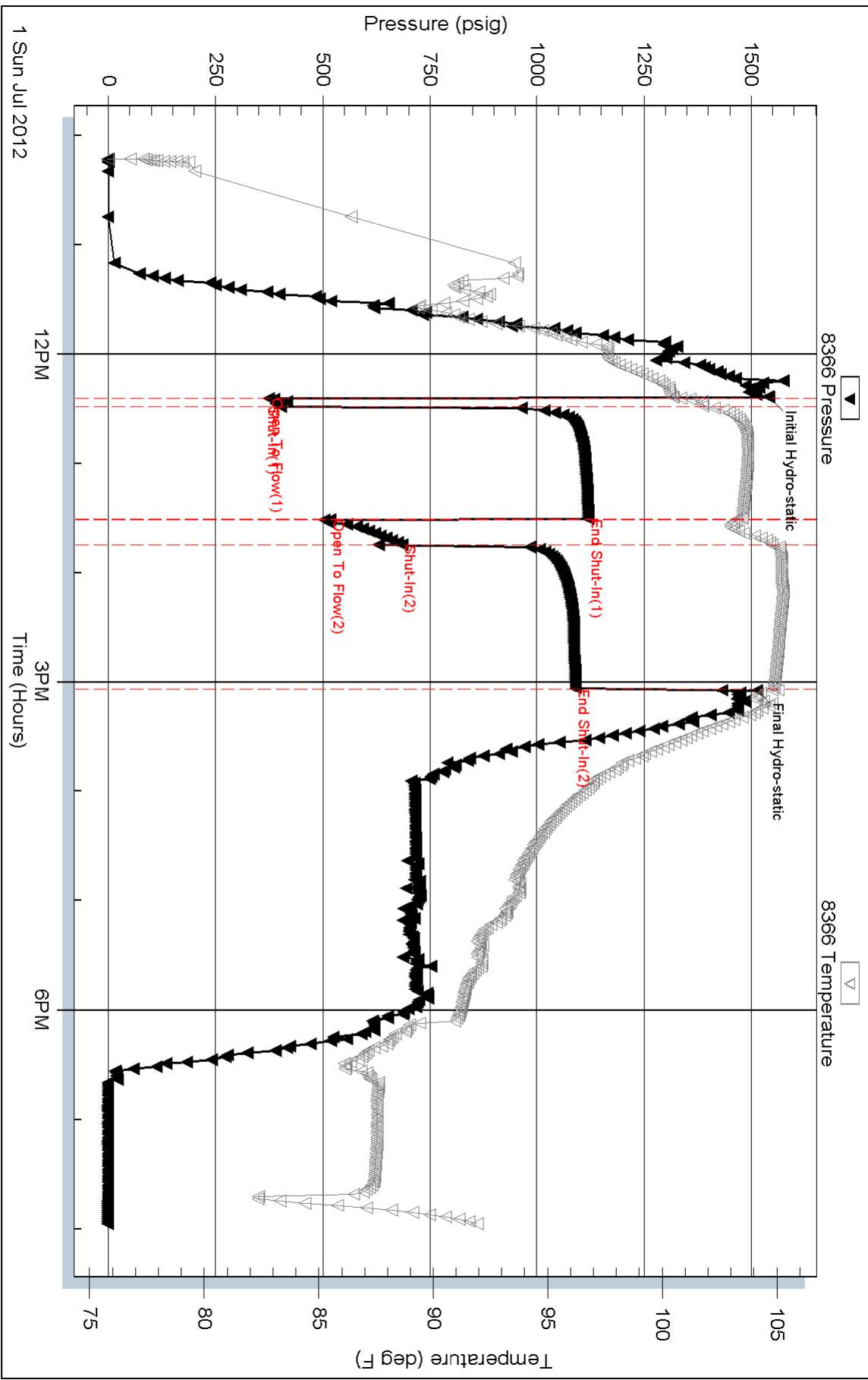
Inside

Samuel Gary J. & Associates

Cooper #1-30

DST Test Number: 1

Pressure vs. Time



Triodite Testing, Inc

Ref. No: 47823

Printed: 2012.07.01 @20:12:00

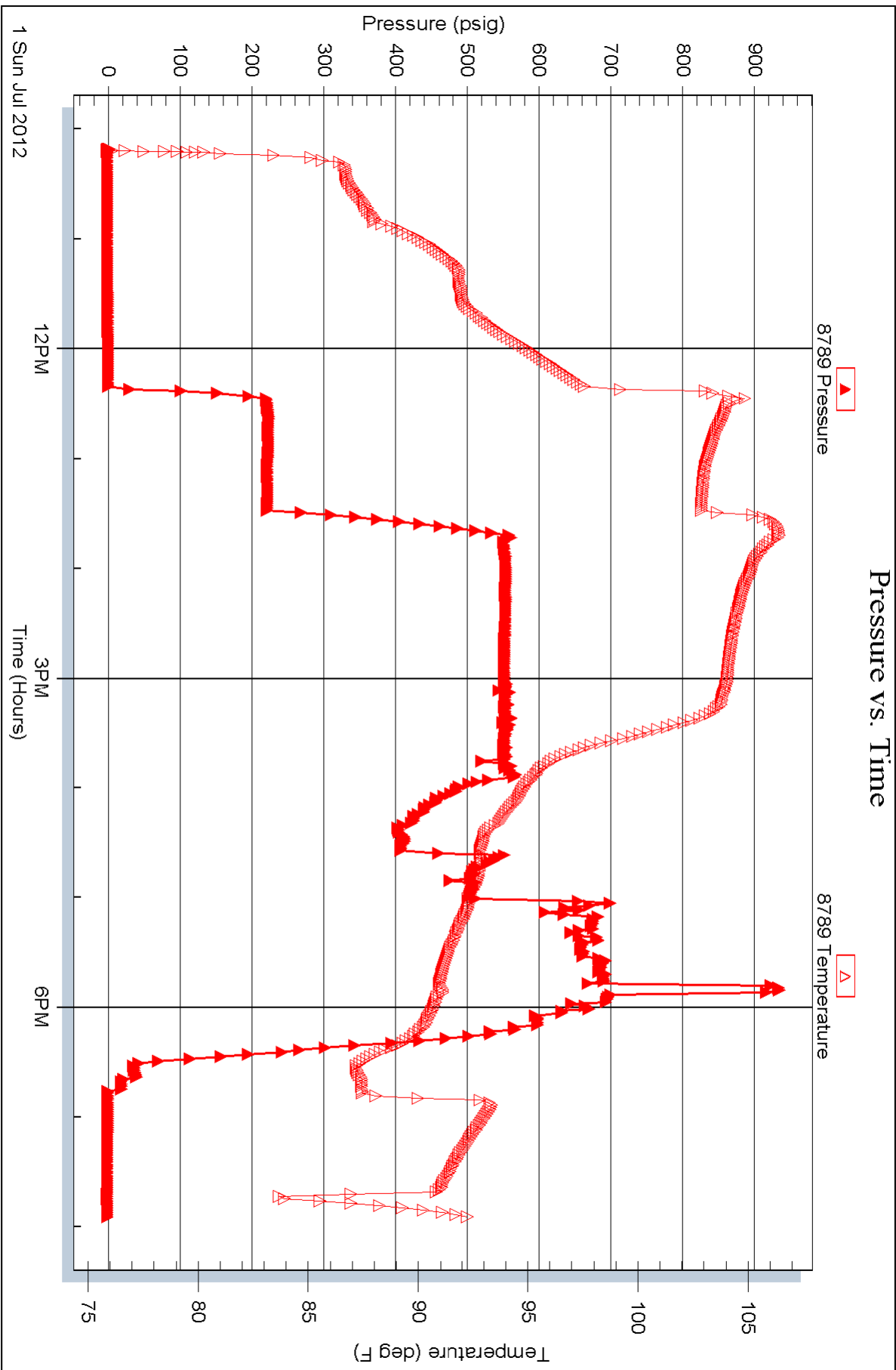
Serial # 8789

Outside

Samuel Gary J. & Associates

Cooper #1-30

DSTest Number: 1



Trickle Testing, Inc

Ref. No: 47823

Printed: 2012.07.01 @20:12:01

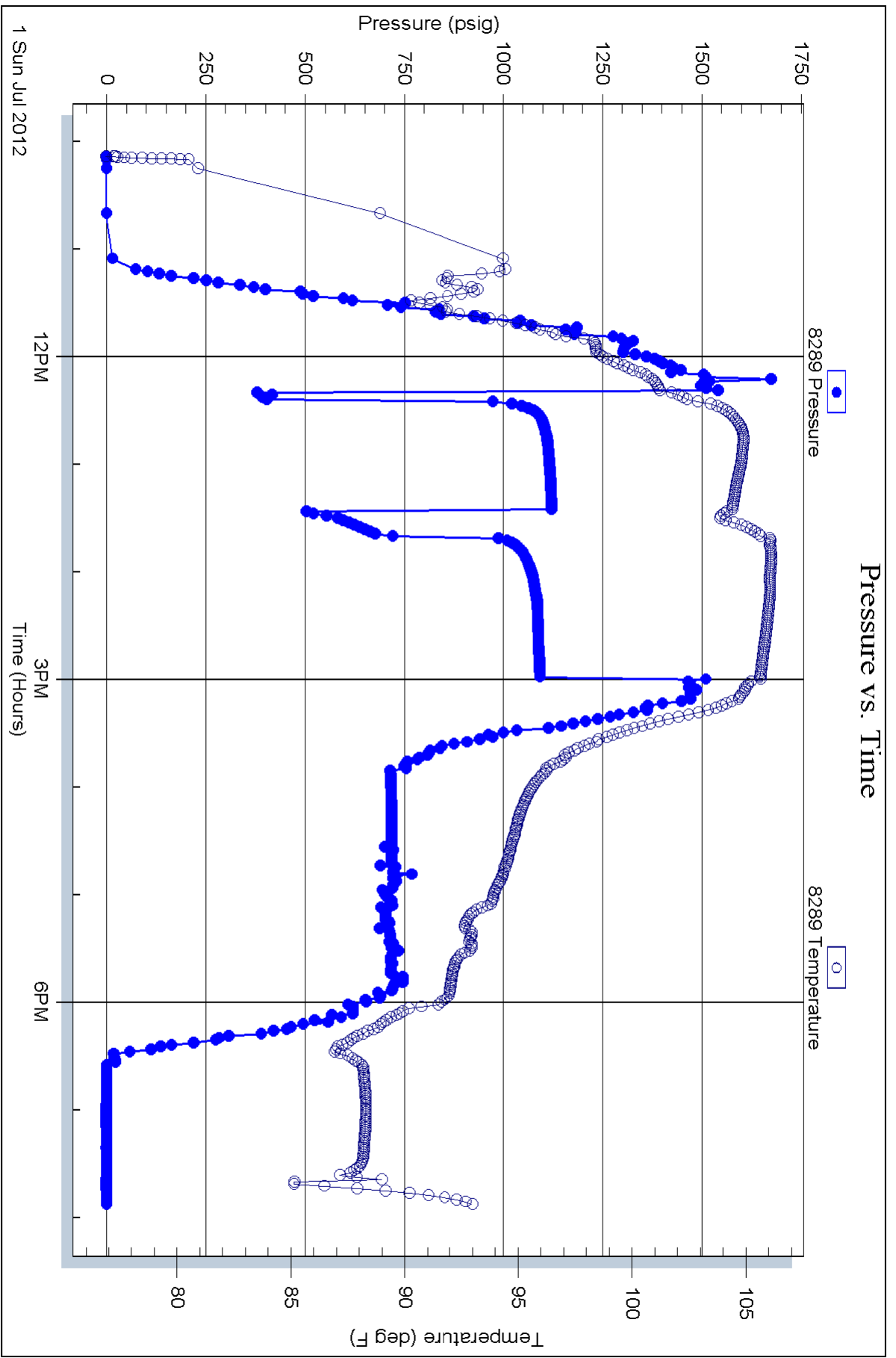
Serial # 8289

Fluid

Samuel Gary J. & Associates

Cooper #1-30

DST Test Number: 1

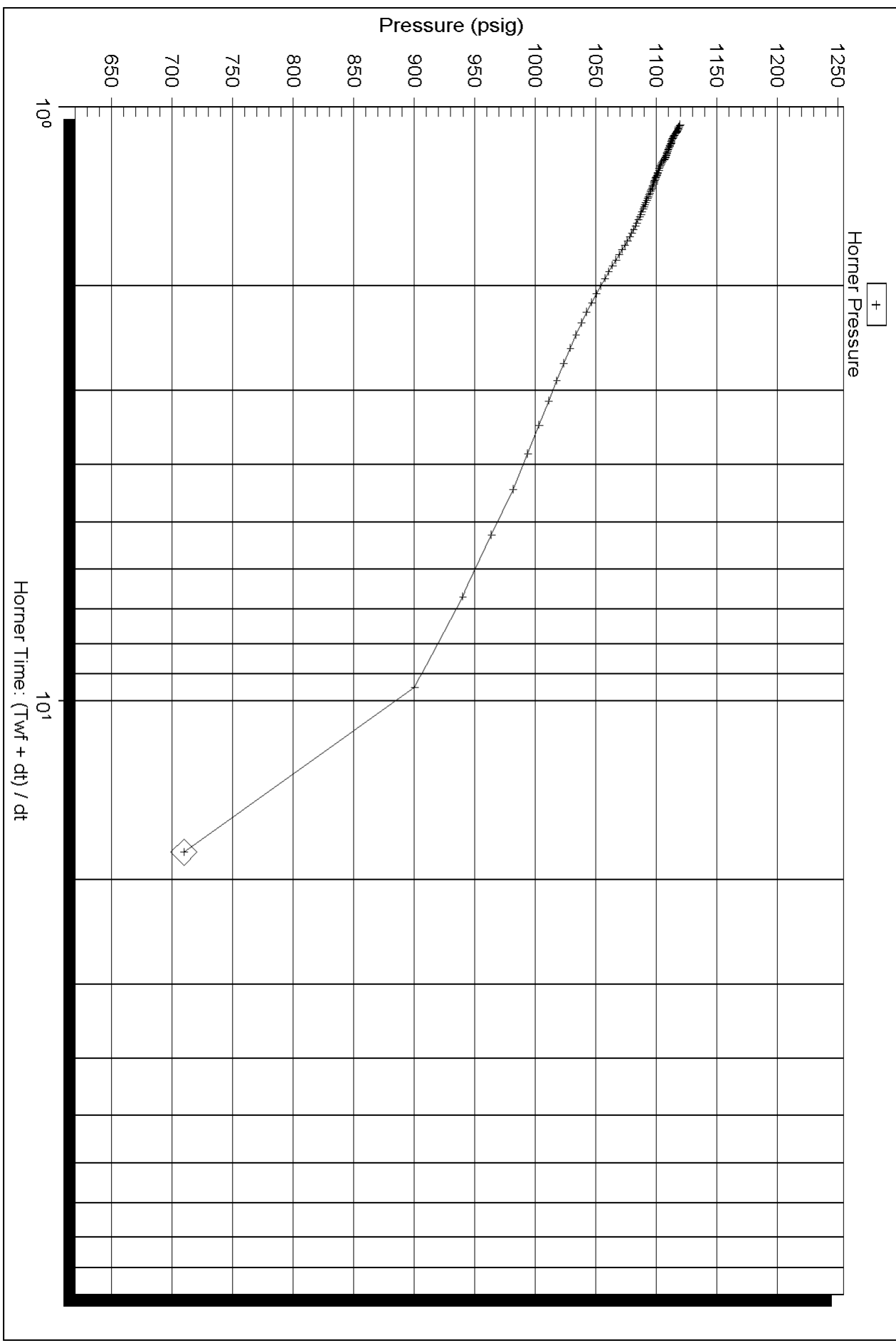


Trickle Testing, Inc

Ref. No: 47823

Printed: 2012.07.01 @20:12:01

Horner Plot



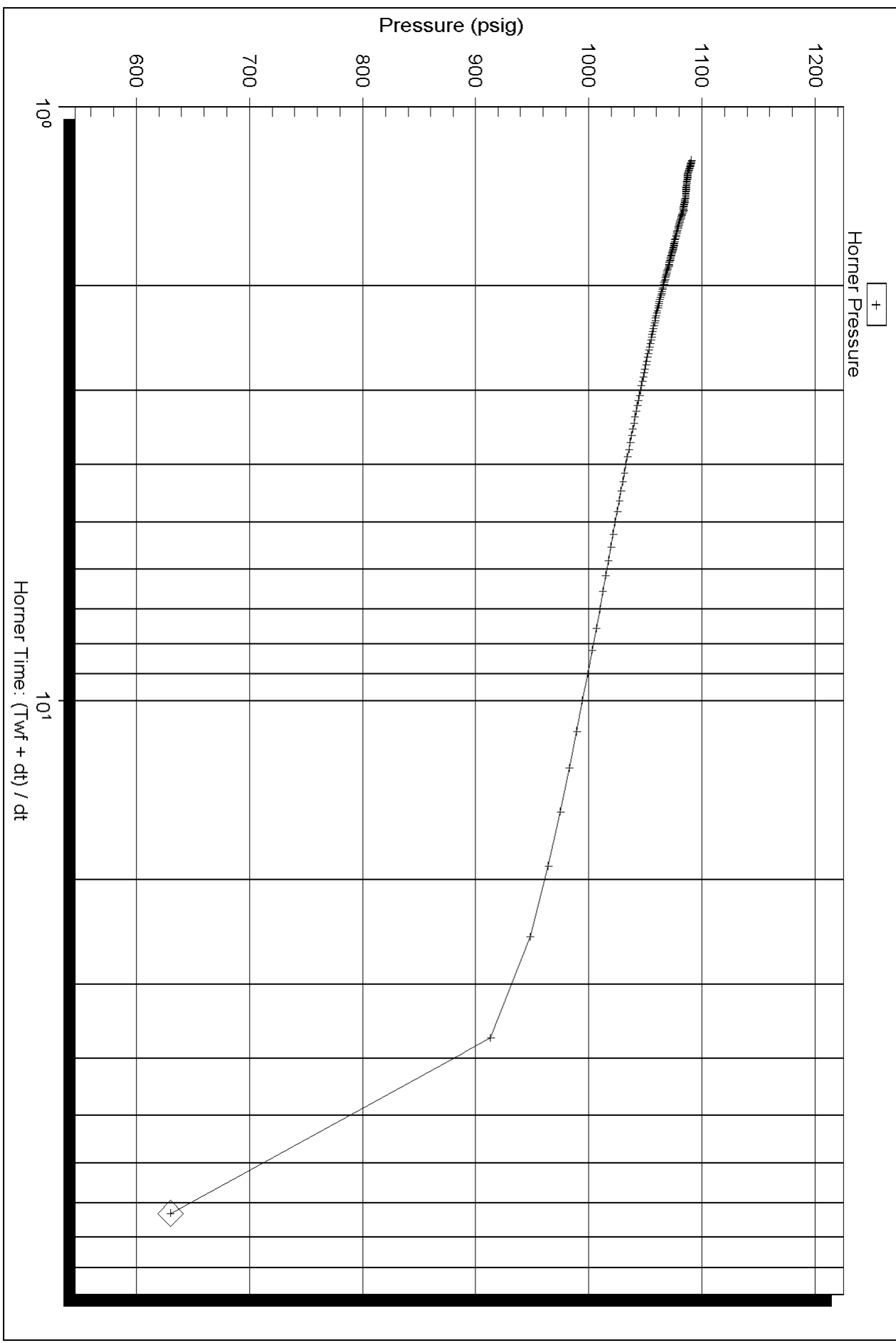
Serial Number: 8366 (Inside)

P_r :

Slope (m) : kpa/log cycle

Flow/Cycle: 1

Horner Plot



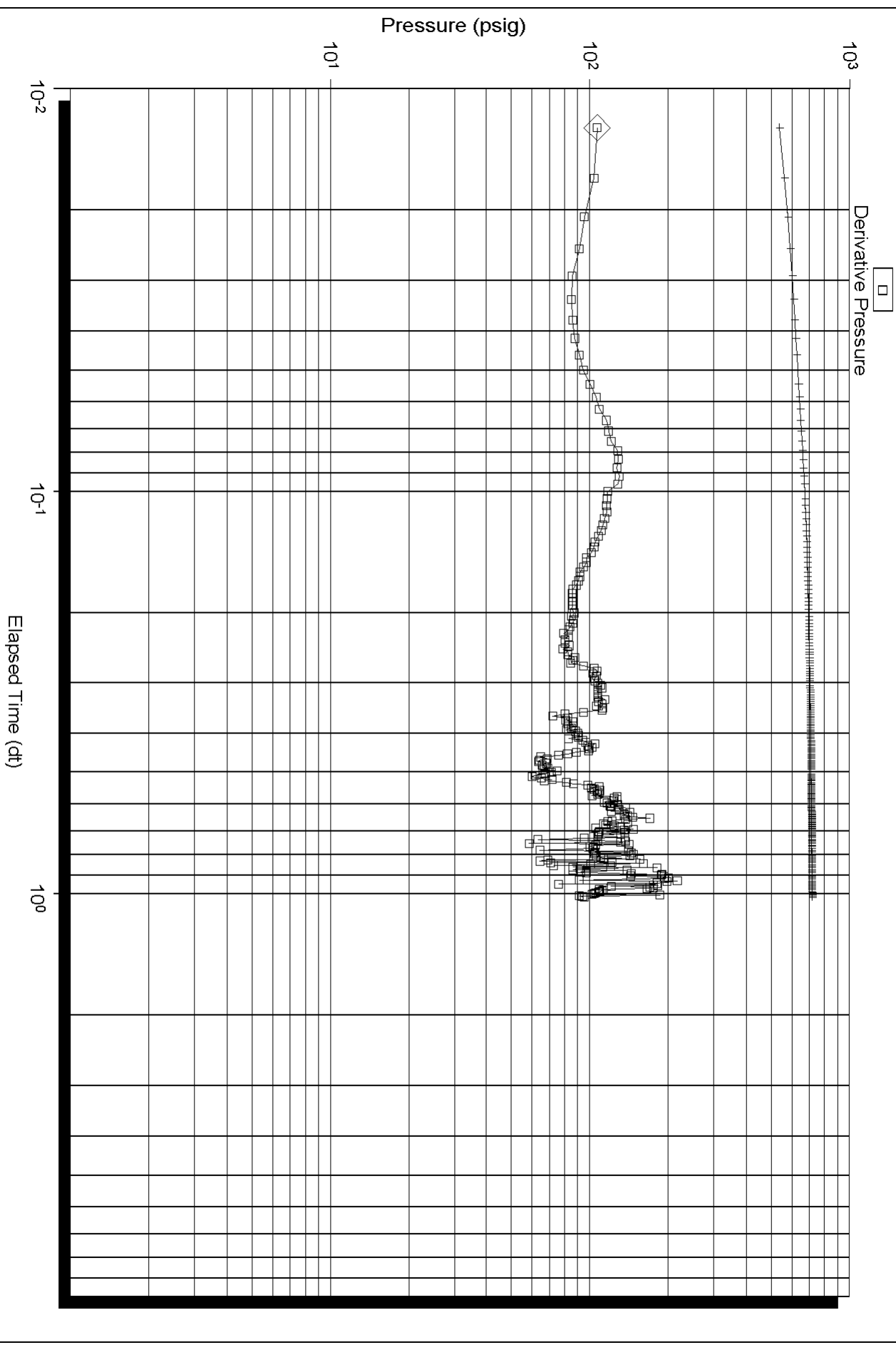
Serial Number: 8366 (Inside)

P_r :

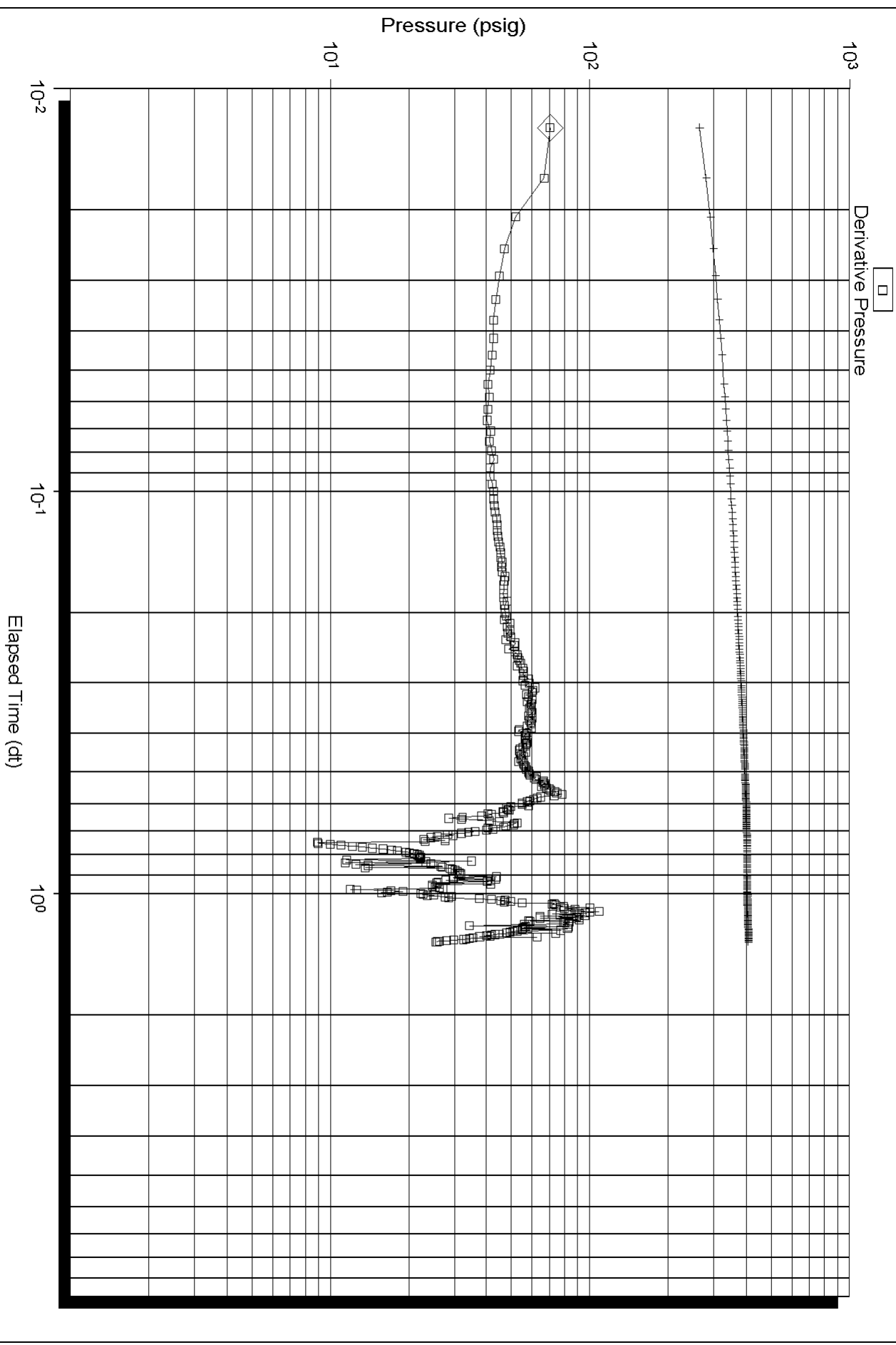
Slope (m) : kpa/log cycle

Flow/Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative



Serial Number: 8366 (Inside)

Flow Cycle: 2



DRILL STEM TEST REPORT

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

1515 Wynkoop
Denver, CO. 80202

ATTN: Tom Fertal

Copper #1-30

30-14s-17w-Ellis

Start Date: 2012.07.02 @ 04:05:22

End Date: 2012.07.02 @ 13:04:37

Job Ticket #: 47824 DST #: 2

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

Printed: 2012.07.02 @ 14:09:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Denver, CO. 80202

Copper #1-30

Job Ticket: 47824

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.07.02 @ 04:05:22

GENERAL INFORMATION:

Formation: **F-G**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:21:52

Time Test Ended: 13:04:37

Test Type: (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3275.00 ft (KB) To 3324.00 ft (KB) (TVD)

Reference Elevations: 1942.00 ft (KB)

Total Depth: 3324.00 ft (KB) (TVD)

1934.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 141.64 psig @ 3343.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.02

End Date:

2012.07.02

Last Calib.:

2012.07.02

Start Time:

04:05:24

End Time:

13:04:37

Time On Btm:

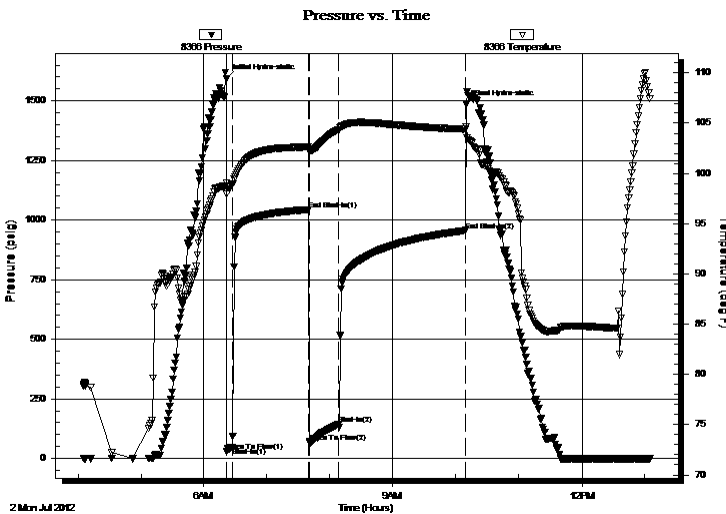
2012.07.02 @ 06:21:37

Time Off Btm:

2012.07.02 @ 10:09:37

TEST COMMENT: IFP-Strong Blow, BOB in 3 Min.
ISI-Blow back Built to 1"
FFP-Good Blow, BOB in 6 Min.
FSI-Blow back Built to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.88	99.06	Initial Hydro-static
1	30.87	98.00	Open To Flow (1)
6	46.91	98.84	Shut-In(1)
79	1044.61	102.64	End Shut-In(1)
79	66.73	102.14	Open To Flow (2)
107	141.64	104.34	Shut-In(2)
228	956.41	104.41	End Shut-In(2)
228	1486.62	104.66	Final Hydro-static

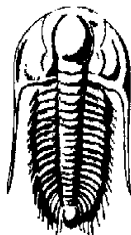
Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water-95%W-5%M	1.41
150.00	HOCMW-20%G-30%O-45%W-5%M	2.10
0.00	300' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Denver, CO. 80202

Copper #1-30

Job Ticket: 47824

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.07.02 @ 04:05:22

GENERAL INFORMATION:

Formation: **F-G**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:21:52

Time Test Ended: 13:04:37

Test Type: (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3275.00 ft (KB) To 3324.00 ft (KB) (TVD)

Total Depth: 3324.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1942.00 ft (KB)

1934.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8289

Fluid

Press @ Run Depth: psig @ 3240.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.02

End Date:

2012.07.02

Last Calib.:

2012.07.02

Start Time: 04:03:32

End Time:

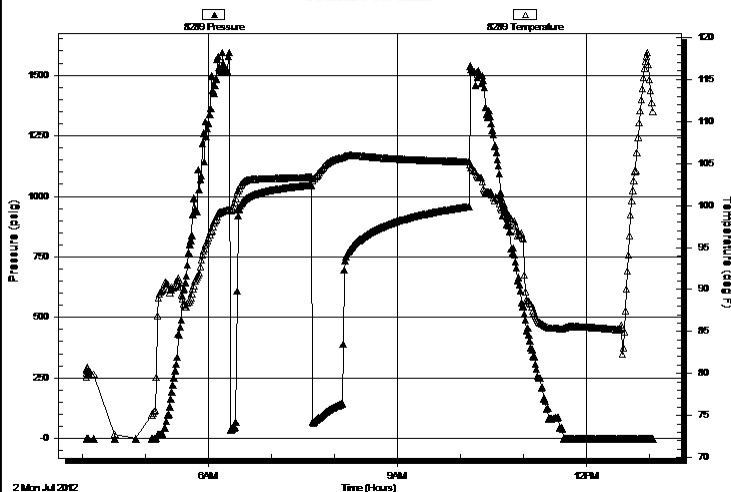
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Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Strong Blow , BOB in 3 Min.
ISI-Blow back Built to 1"
FFP-Good Blow , BOB in 6 Min.
FSI-Blow back Built to 3"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water-95%W-5%M	1.41
150.00	HOCMW-20%G-30%O-45%W-5%M	2.10
0.00	300' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Denver, CO. 80202

Copper #1-30

Job Ticket: 47824

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.07.02 @ 04:05:22

GENERAL INFORMATION:

Formation: **F-G**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:21:52

Time Test Ended: 13:04:37

Test Type: (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3275.00 ft (KB) To 3324.00 ft (KB) (TVD)

Total Depth: 3324.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1942.00 ft (KB)

1934.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8789 Outside

Press @ Run Depth: psig @ 3343.00 ft (KB)

Start Date: 2012.07.02

End Date: 2012.07.02

Capacity: 8000.00 psig

Last Calib.: 2012.07.02

Start Time: 04:08:01

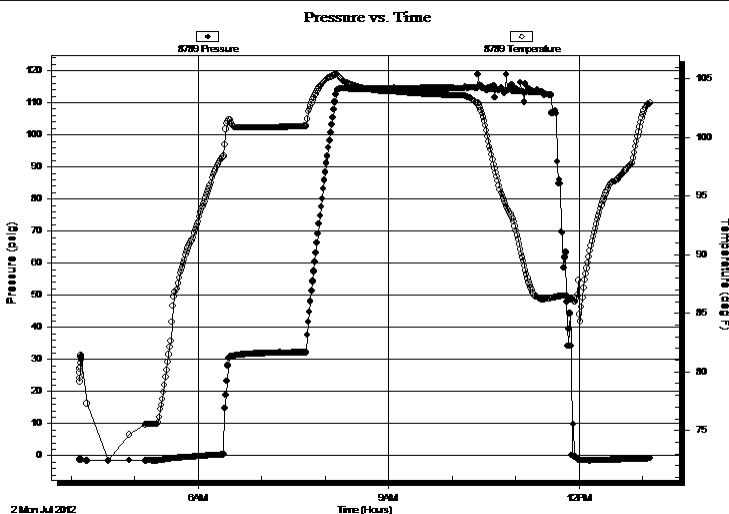
End Time: 13:07:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Strong Blow, BOB in 3 Min.
ISI-Blow back Built to 1"
FFP-Good Blow, BOB in 6 Min.
FSI-Blow back Built to 3"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Muddy Water-95%W-5%M	1.41
150.00	HOCMW-20%G-30%O-45%W-5%M	2.10
0.00	300' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Denver, CO. 80202

Copper #1-30

Job Ticket: 47824

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.07.02 @ 04:05:22

Tool Information

Drill Pipe:	Length: 3221.00 ft	Diameter: 3.80 inches	Volume: 45.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 45.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3275.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8289	Fluid	3240.00	
Change Over Sub	5.00			3245.00	
Shut In Tool	5.00			3250.00	
Sampler	3.00			3253.00	
Hydraulic tool	5.00			3258.00	
Jars	5.00			3263.00	
Safety Joint	2.00			3265.00	
Packer	5.00			3270.00	35.00 Bottom Of Top Packer
Packer	5.00			3275.00	
Stubb	1.00			3276.00	
Perforations	2.00			3278.00	
Change Over Sub	1.00			3279.00	
Blank Spacing	63.00			3342.00	
Change Over Sub	1.00			3343.00	
Recorder	0.00	8366	Inside	3343.00	
Recorder	0.00	8789	Outside	3343.00	
Perforations	5.00			3348.00	
Bullnose	3.00			3351.00	76.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

30-14s-17w-Ellis

1515 Wynkoop
Denver, CO. 80202

Copper #1-30

Job Ticket: 47824

DST#: 2

ATTN: Tom Fertal

Test Start: 2012.07.02 @ 04:05:22

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 62.00 sec/qt
Water Loss: 10.39 cm³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 32 deg API
Water Salinity: 35000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Muddy Water-95%W-5%M	1.410
150.00	HOCMW-20%G-30%O-45%W-5%M	2.104
0.00	300' Gas In Pipe	0.000

Total Length: 270.00 ft Total Volume: 3.514 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

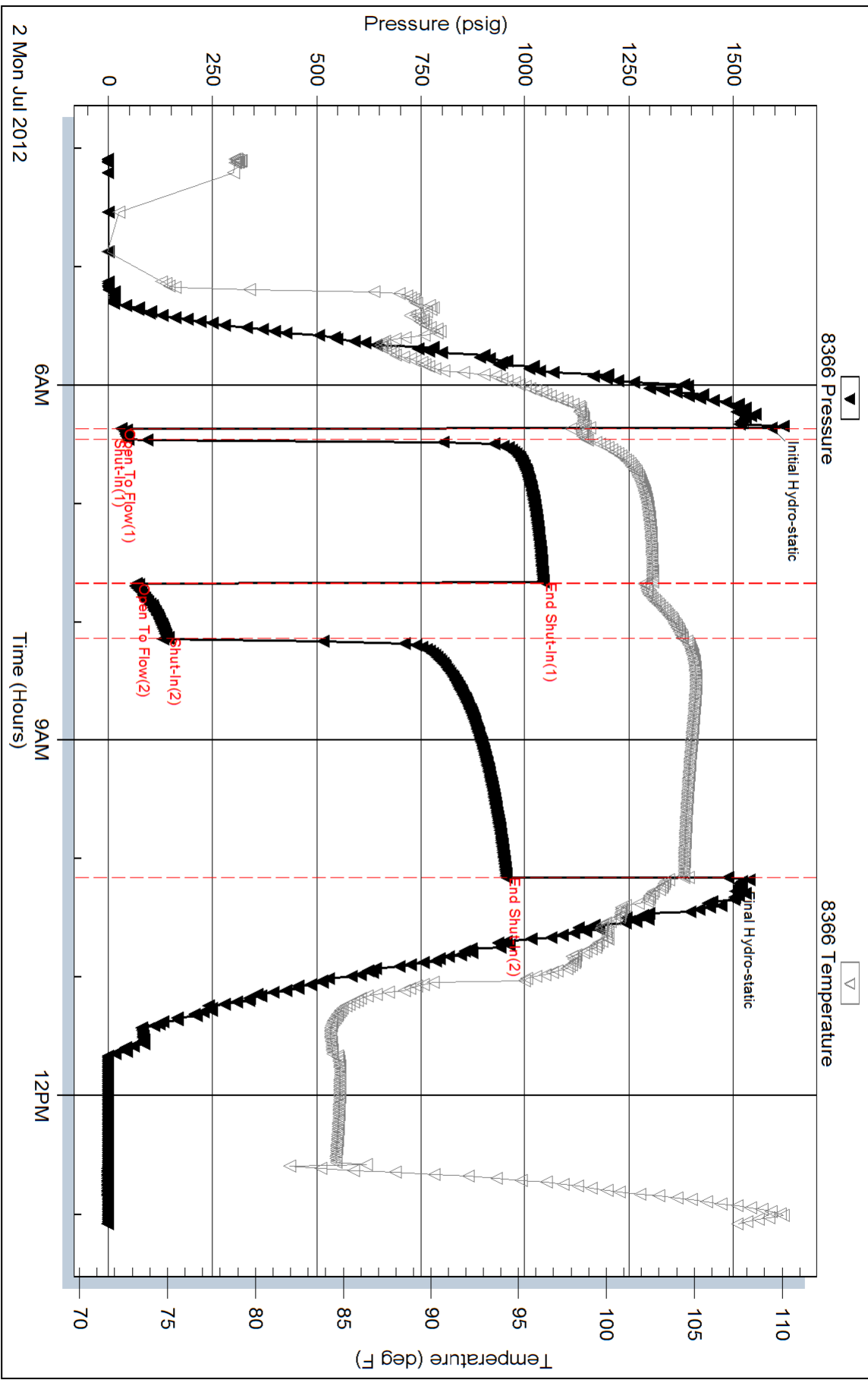
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 275#,300ml Oil,3700ml Water

Pressure vs. Time



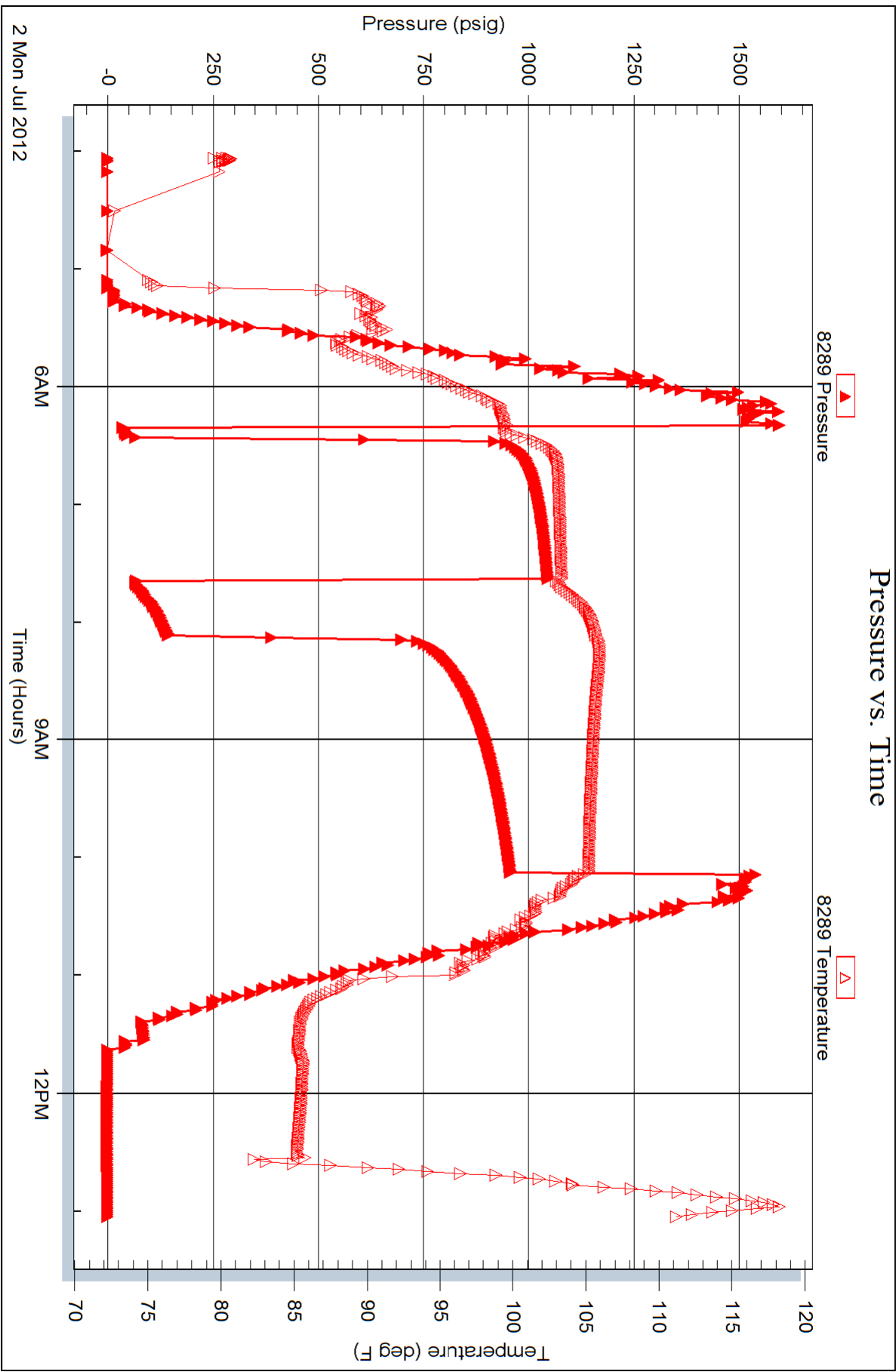
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Fluid

Samuel Gary Jr. & Associates

Copper #1-30

DST Test Number: 2

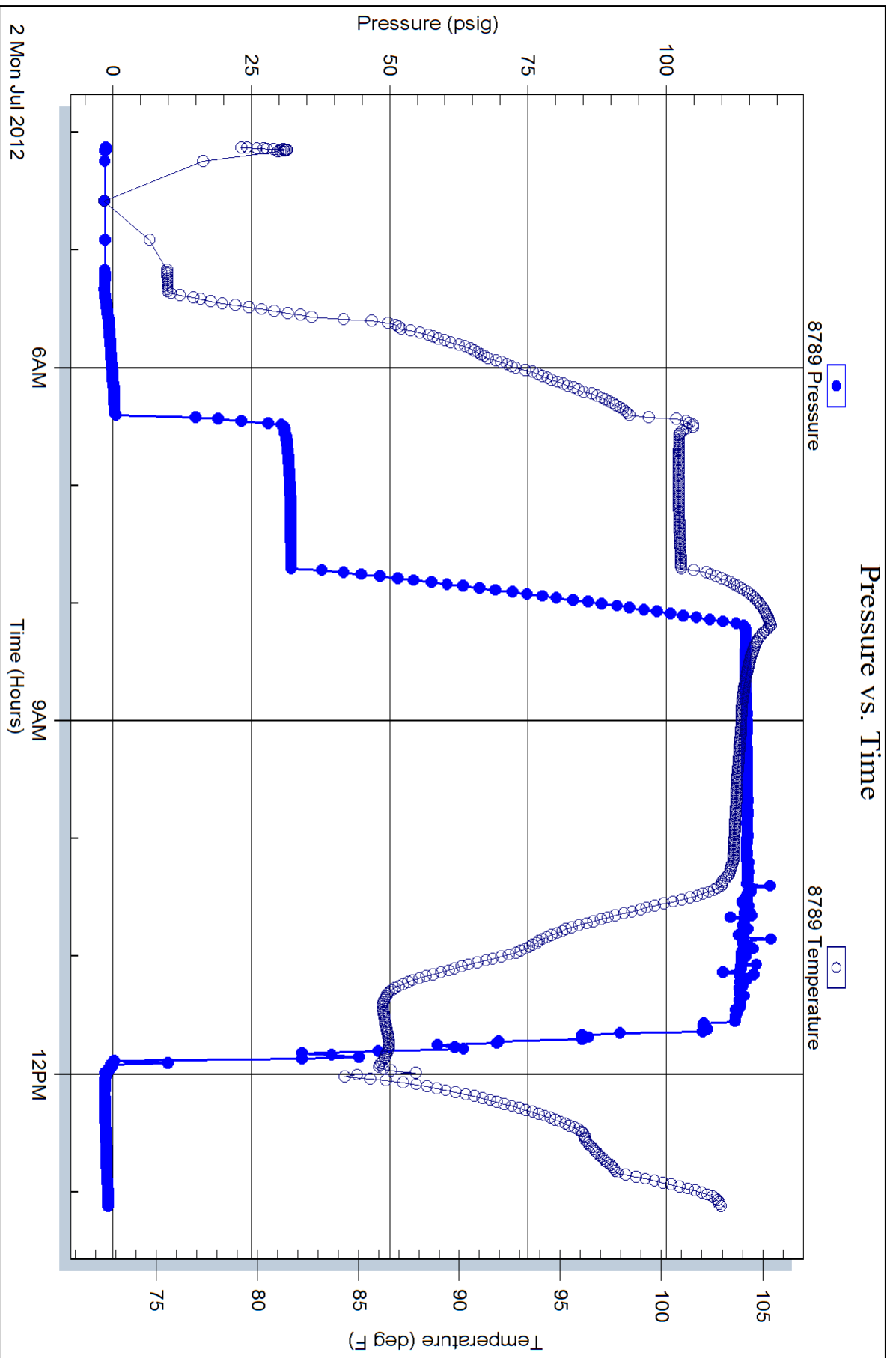


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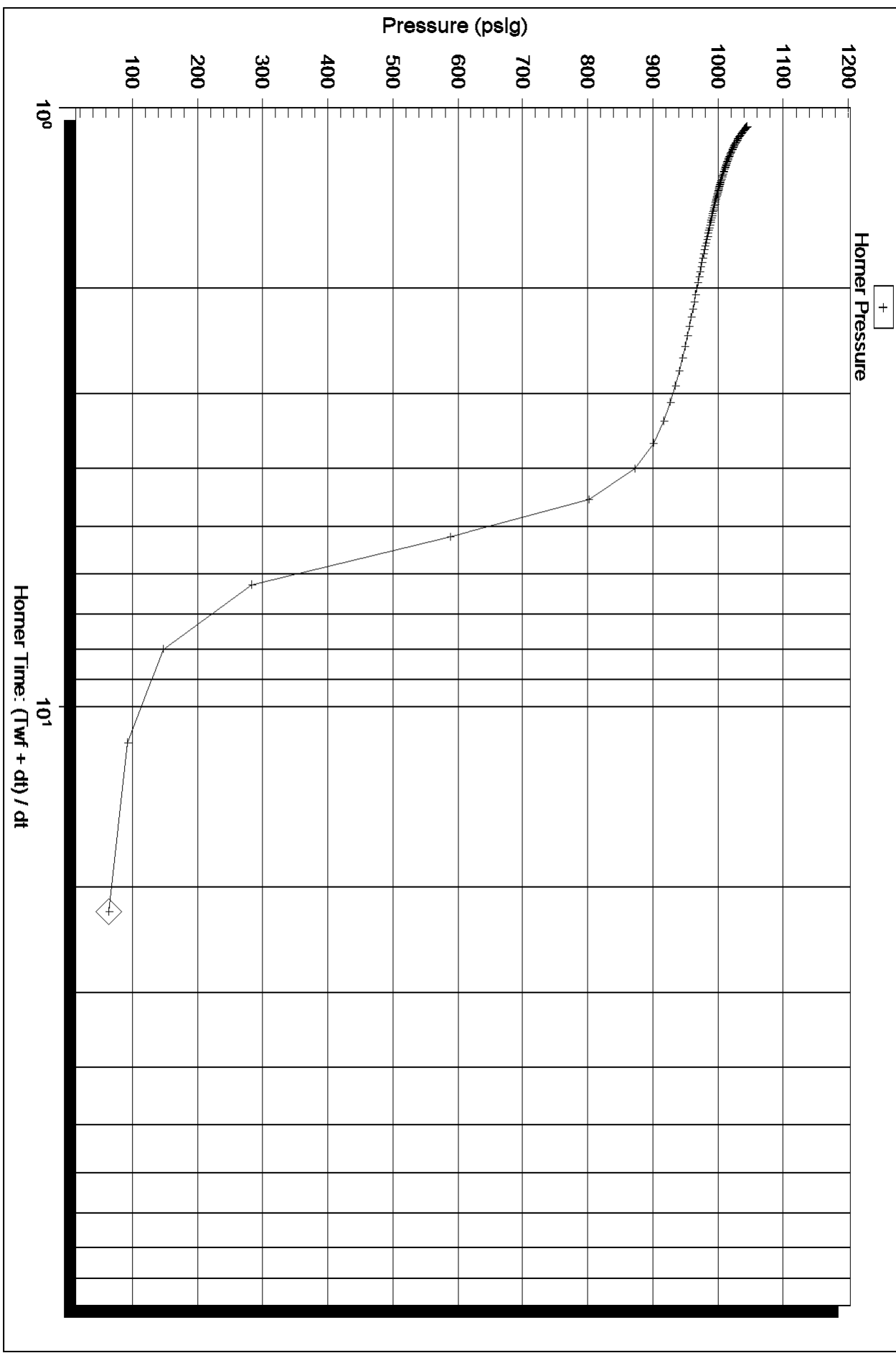
Outside Samuel Gary Jr. & Associates

Copper #1-30

DST Test Number: 2



Horner Plot



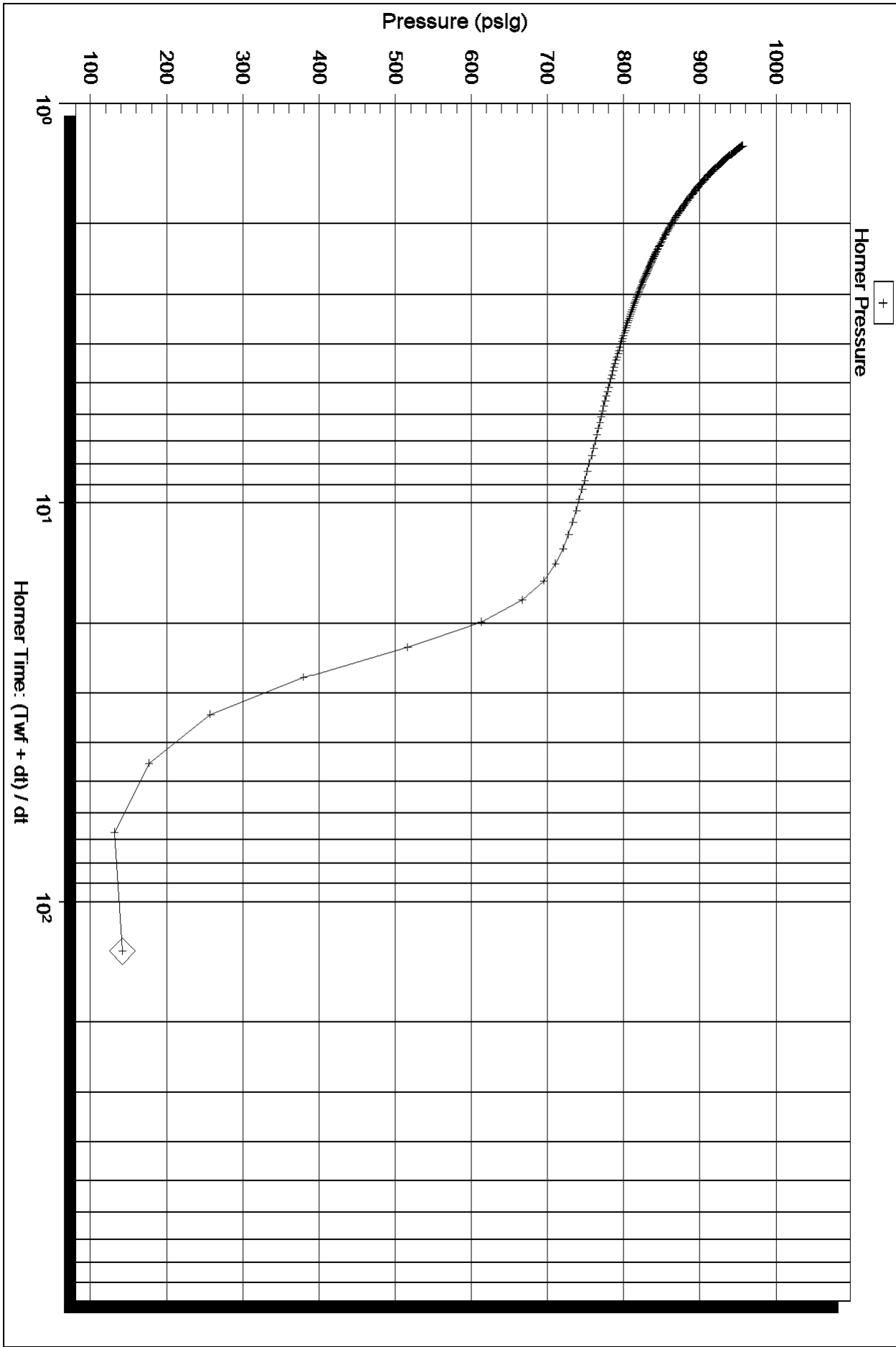
Serial Number: 8366 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



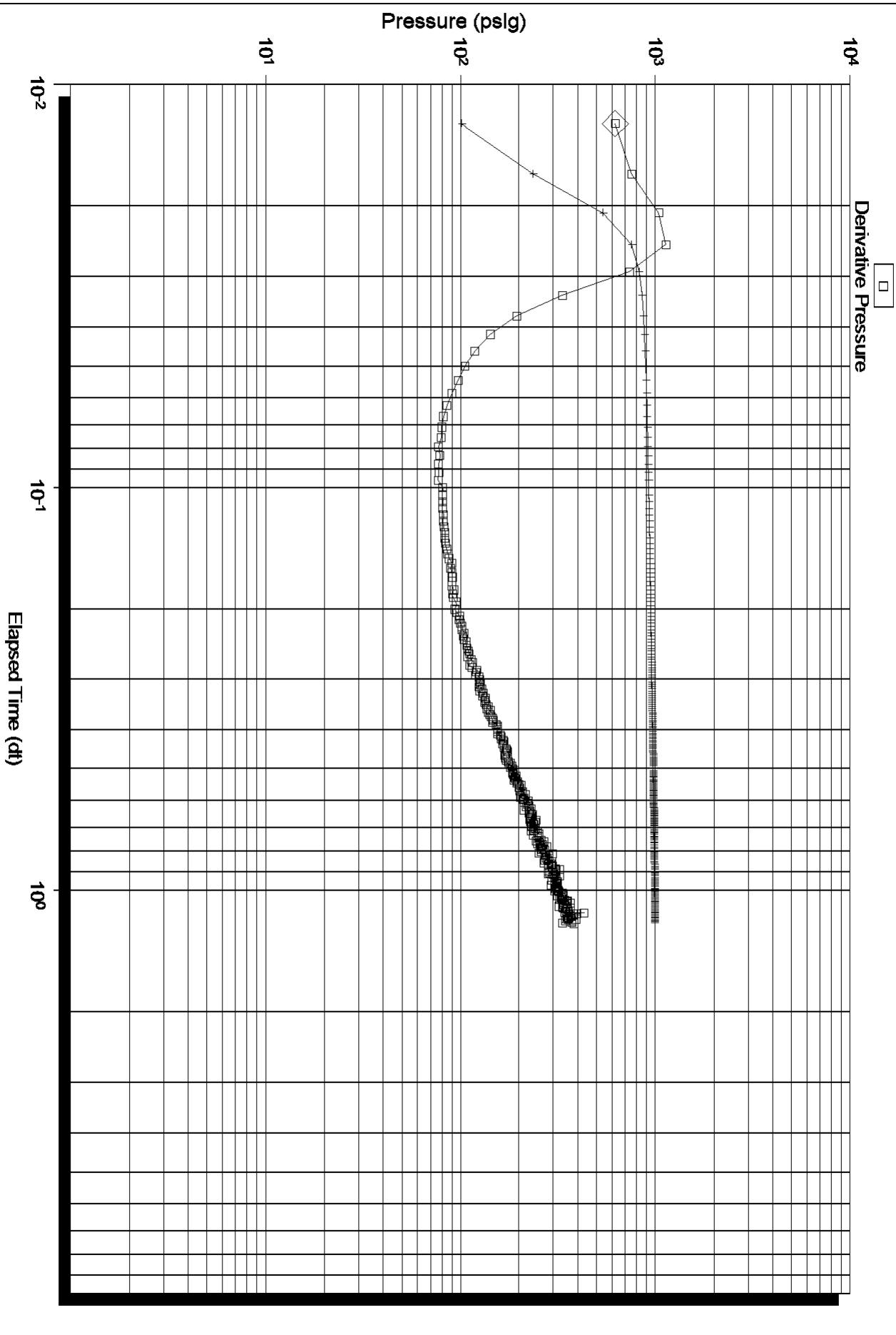
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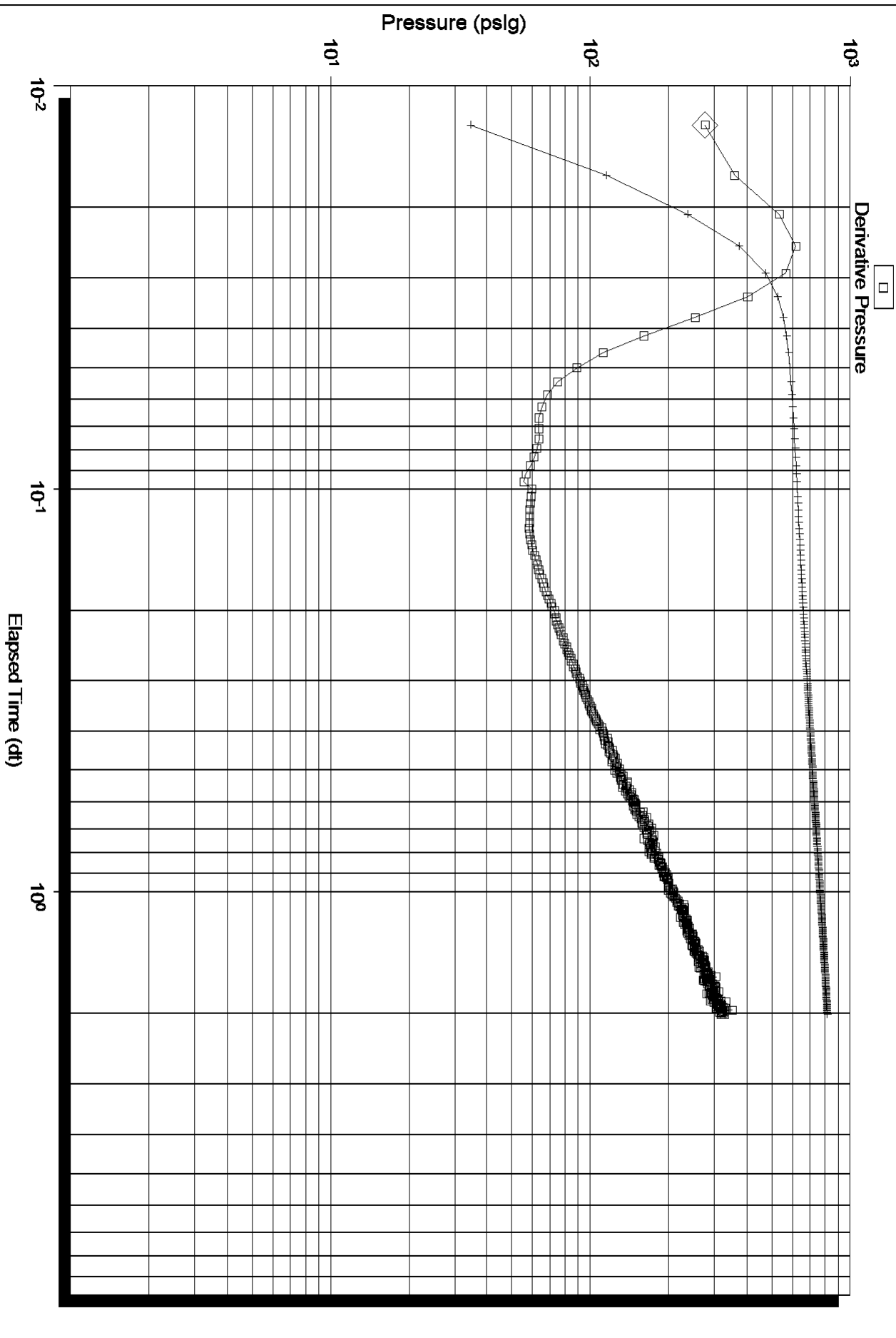
Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





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

Well Name: Copper 1-30
 Location: Sec. 30-14S-17W Ellis County, Kansas
 License Number: 15-051-26330-0000
 Spud Date: June 28, 2012
 Surface Coordinates: 1025 FSL/ 2050 FEL
 Region: WILDCAT
 Drilling Completed: July 3, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1934' K.B. Elevation (ft): 1942'
 Logged Interval (ft): 2900' To: 3610' Total Depth (ft): 3610'
 Formation:
 Type of Drilling Fluid:

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

OPERATOR

Company: Samuel Gary Jr. & Assoc.
 Address: 1515 Wynkoop, Ste. # 700
 Denver, Colo. 80202
 Geo: TOM FERTAL

GEOLOGIST

Name: Aaron Suelter
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 785-531-2406



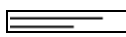
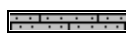
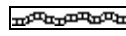



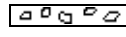



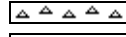

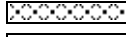
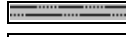

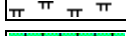

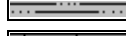



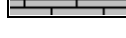

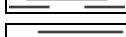




DST's Report

DST#1 3197'-3273' 5 60 15 75
 IF- STRONG, BOB IN 1 MIN/ ISI- BB BOB IN 3 MIN/ FF- STRONG, BOB IN 1 MIN, GAS TO SURFAVE IN 13 MIN/
 FS- BB BOB IN 2 MIN
 IH-1542, FH-1512/ IF- 374 TO 517/ FF- 402 TO 684/ ISI-1120, FSI- 1091
 RECOVERY- 1562' GASSY OIL/ BHT-105/ GRAVITY 38
 SAMPLER- 75#, 4000 ML G.O.

DST's Report

DST#2 3274'-3324'
 IF- STRONG BLOW BOB IN 3 MIN/ ISI BB BUILT TO 1"/ FF- GOOD BLOW BOB IN 6 MIN/ FSI- BB BUILT TO 3"
 IH- 1591, FH- 1486/ IF- 30 TO 66/ FF- 46 TO 141/ ISI- 1044, FSI- 956
 RECOVERY 120' MUDDY WATER 95% WATER, 5% MUD/ 150' HOCMW 20%GAS, 30%OIL, 45% WATER, 5% MUD/
 300' GAS IN PIPE/ BHT 102

ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sitysh
 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
- 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

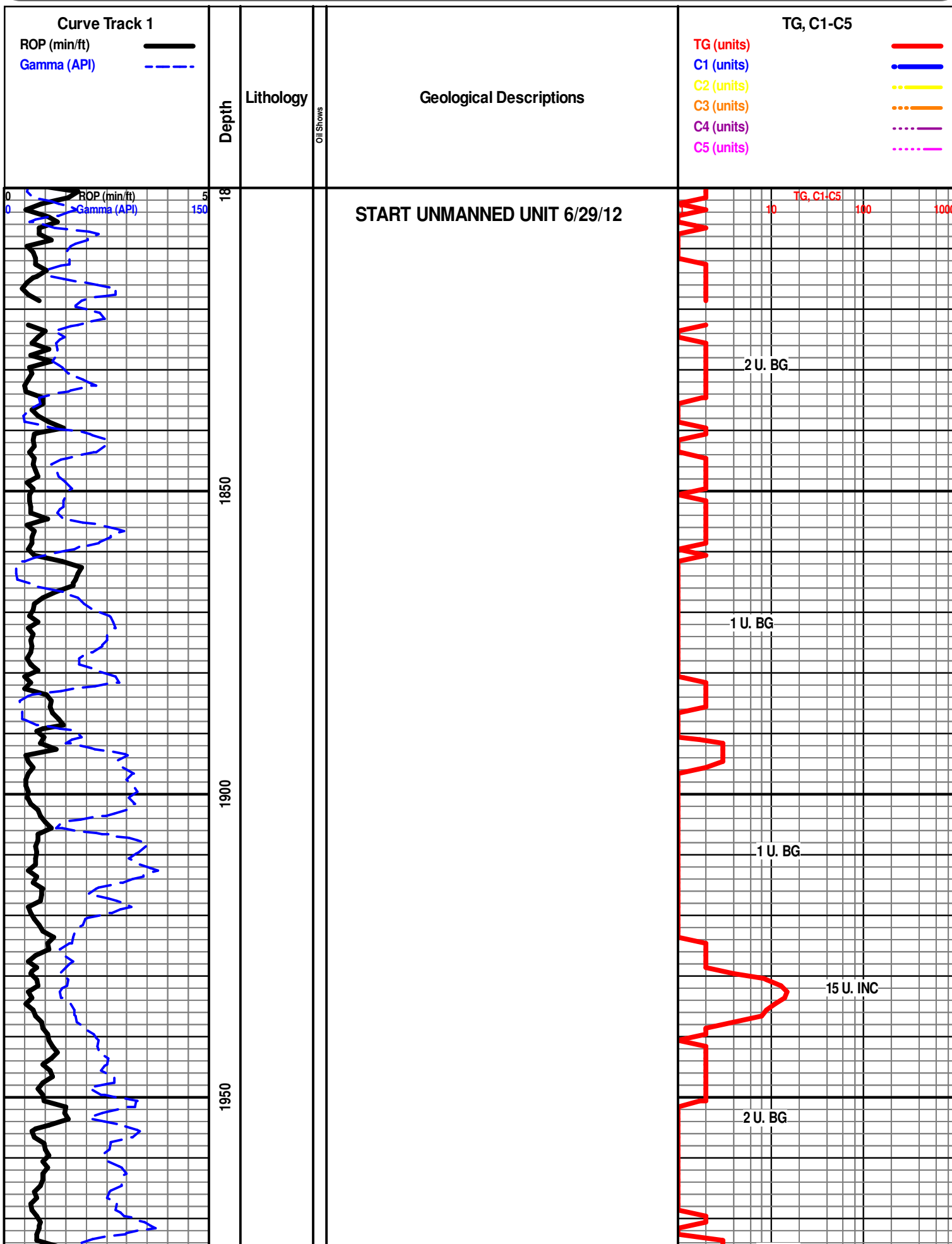
- Even
- Spotted
- Ques
- Dead
- Gas show

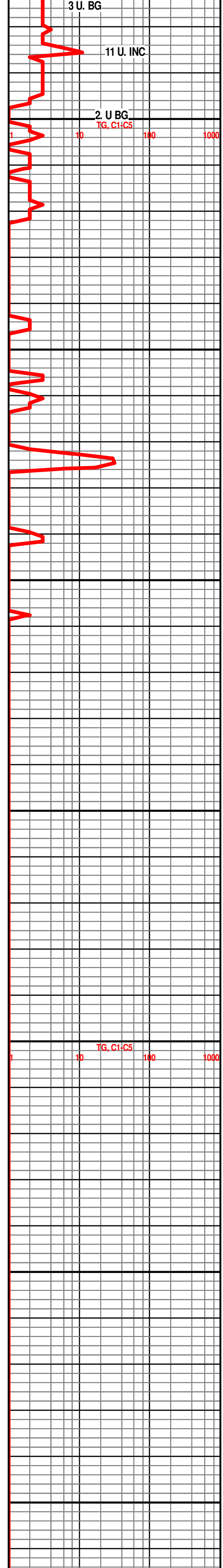
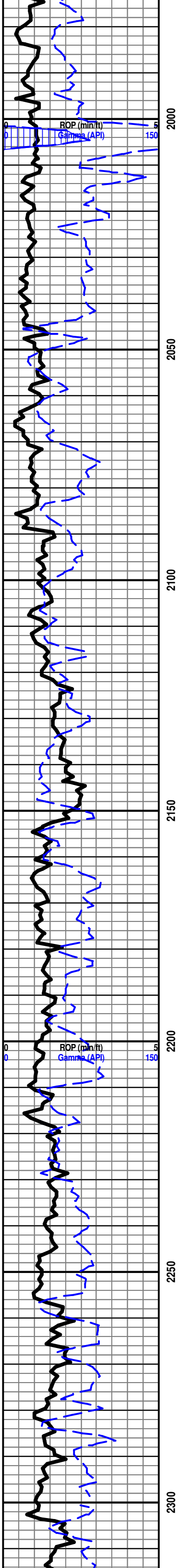
INTERVALS

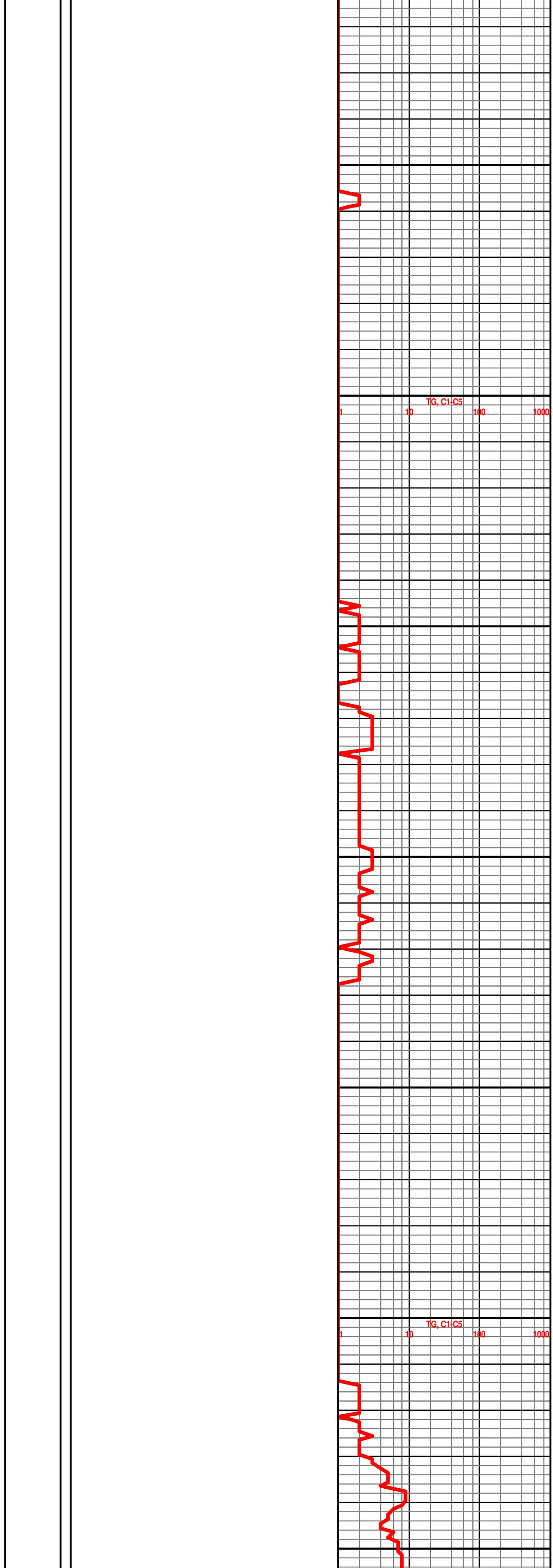
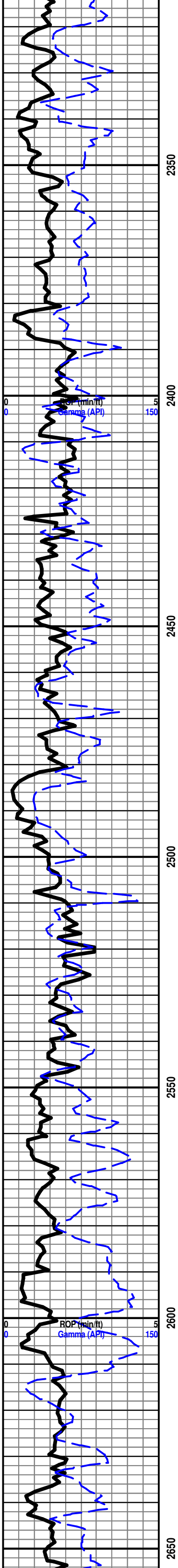
- Core
- Dst
- Dst

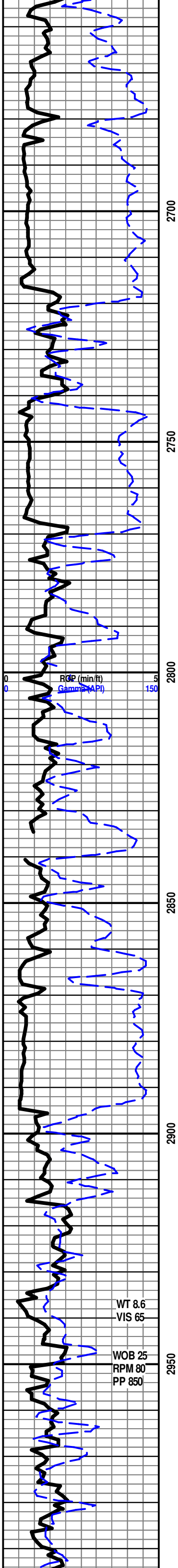
EVENTS

- Rft
- Sidewall









2700

2750

2800

2850

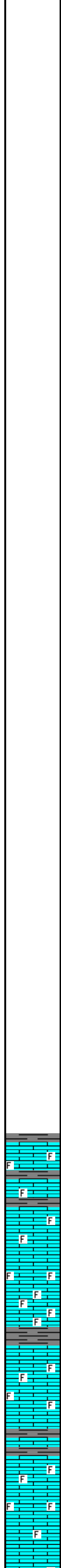
2900

2950

ROP (min/ft)
Gamma (API)

WT 8.6
VIS 65

WOB 25
RPM 80
PP 850



BRS 2717' -775'

HOWARD 2895' -953'

START 24 HOUR MANNED UNIT 6/30/12

LS- TN TO GY MOTT, HD DNS TO BRIT IP, MD XLN RE-XLN MTRX, TR S-CHLKY IP, TR IMBD FOSS FRG THRU, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO V/BRIT, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS-TN TO GY, HD DNS, F TO MD XLN RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

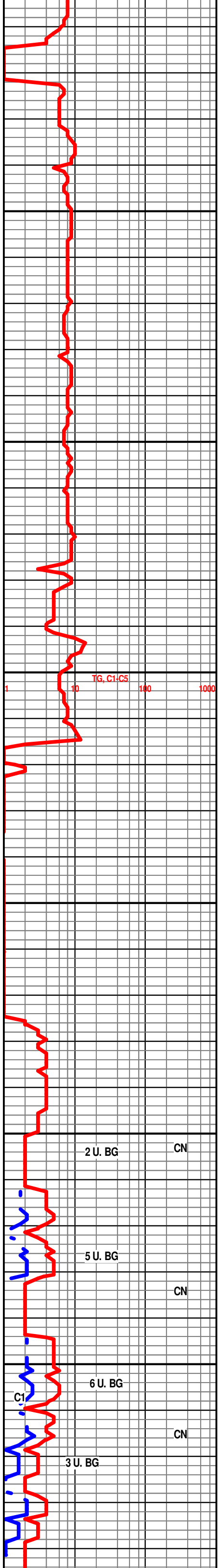
TOPEKA 2946'-1004'

LS- LT TN TO TN, HD DNS TO V/ BRIT, F TO MD XLN RE-XLN MTRX, S-CHLKY, SCAT IMBD FOSS FRG THRU, SCAT SFT WHT CHLK IN TRAY , NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- LT GY TO GY, FRM BLKY, SMTH TXT

LS- TN TO GY, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, TR IMBD LG FOSS SCAT THRU, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW



2 U. BG

CN

5 U. BG

CN

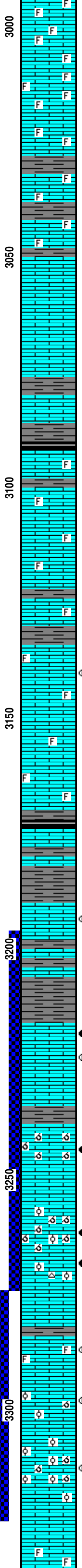
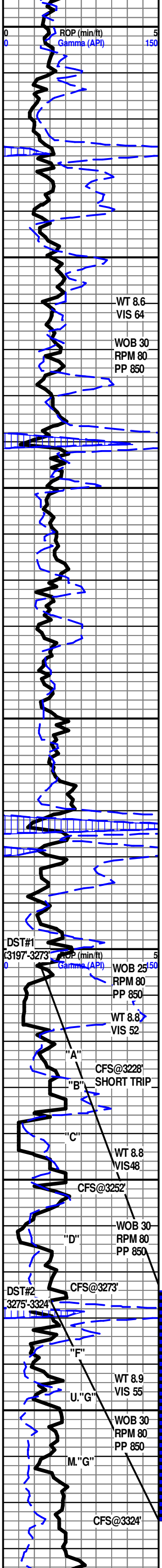
6 U. BG

3 U. BG

CN

TG, C1-C5

C1



LS- TN TO GY, HD DNS, F TO MD XLN RE-XLN MTRX, ABDT IMBD SM TO LG FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN, HD DNS, MD XLN RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, TR SCAT IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO GY, HD DNS TO V/BRIT, F TO MD XLN RE-XLN MTRX, S-SUCRO, S-CHLKY IP, TR SCAT IMBD FOSS FRGS THRU, SLI TR SCAT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO GY MOTT, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S- SUCRO IP, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LE COMPTON 3050' -1108'

LS- OFF WHT TO CRM, HD DNS, V/F TO F XLN MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO DK GY, HD DNS, V/F TO F XLN, S-SUCRO IP, ABDT IMBD LG FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BLCK, SFT, CARB

LS- LT TN TO LT GY, HD DNS TO BRIT, MD XLN RE-XLN MTRX, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN MTRX, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3138'-3140' LS- OFF WHT TO CRM W/ V/ LT TN OIL STN IN 30%, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO IP, SLI TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, BRT YEL GLD FLO IN 65%, NO FLO IN 35%, V/PR INTR XLN POR IN 5%, FR FLSH CUT IN 60%, FR TO GD MLKY BLU SLW STRM IN 60%, LT TN LCH ON DISH, FR OIL ODOR

LS- OFF WHT CRM TO LT GY, HD DNS TO BRIT IP, V/F TO F XLN MTRX, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3171' -1229'

SH- BLCK, SFT, CARB

LS- LT TN TO TN, HD DNS, V/F TO CRYPTO XLN, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN BRW TO DK GY, FRM BLKY, SMTH TXT

3192'-3195' LS- OFF WHT TO CRM W/ TN OIL STN IN 50%, LIVE OIL IN 5%, HD DNS TO BRIT, F XLN RE-XLN MTRX, S-SUCRO IP, SCAT SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 50%, NO FLO IN 50%, V/V/PR INTR XLN POR IN 10%, PR VUG POR IN 1%, WK FLSH CUT IN 50%, FR SLW STRM IN 30%, TN LCH ON DISH, WK OIL ODOR

DOUGLAS 3207' -1265'

SH RED BRWN TO LT GY, SFT GMMY, SMTH TXT

LANSING 3217'-1275'

3218'-3220' LS- LT TN TO TN W/ TN OIL STN IN 70%, HD DNS TO BRIT, MD TO CRS XLN RE-XLN MTRX, SCAT IMBD CALC XLS THRU, BRT YEL GLD FLO IN 80%, FR INTR XLN POR IN 20%, POSS FRCT POR, FR FLSH CUT IN 80%, GD SLW STRM IN 70%, TN LCH ON DISH, GD OIL ODOR

3222'-3225' LS- CRM TO LT TN W/ LT TN OIL STN IN 40%, HD DNS, V/F TO F XLN SUCRO MTRX, DUL YEL GLD FLO IN 60%, GD VUG POR IN 5%, WK FLSH CUT IN 50%, FR SLW STRM IN 40%, TN LCH ON DISH, GD OIL ODOR

LANSING 'C' 3240' -1298'

3240'-3244' LS- OFF WHT, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, V/OOLMLD THRU, DUL YEL GLD FLO IN 80%, BRT YEL GLD FLO IN 10%, GD OOLMLD POR IN 35%, GD VUG POR IN 5%, GD FLSH CUT THRU, MLKY BLU GASSY CUT IN 90%, DK TN LCH ON DISH, V/ STRNG OIL ODOR OIL DROPLETS FLOATING IN DISH

3259'-3264' LS- CRM TO LT TN W/ TN OIL STN IN 85%, HD DNS TO BRIT IP, F TO MD XLN SUCRO MTRX, TR RE-XLN MTRX IP, ABDT OOLMLD THRU, TR SCAT IMBD OOL THRU, SLI TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO THRU, GD OOLMLD POR IN 70%, PR INTR XLN POR IN 1%, GD FLSH CUT THRU, GD SLW STRM IN 90%, DK TN LCH ON DISH, V/ STRNG OIL ODOR

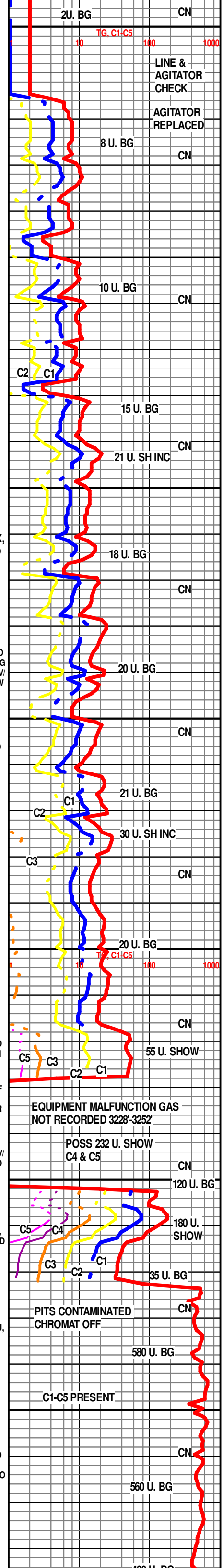
3267'-3269' LS- LT TN W/ DK TN OIL STN IN 80%, HD DNS TO V/BRIT, F TO MD XLN RE-XLN MTRX, S-SUCRO IP, SCAT IMBD OOL IP, TR WHT CHRT IN TRAY, DUL YEL GLD FLO IN 80%, BRT YEL GLD FLO IN 15%, PR INTR XLN POR IN 15%, FR INTR OOL POR IN 5%, GD INSTNT FLUSH CUT THRU, GD GASSY SLW STRM THRU, DK TN LCH ON DISH, V/ STRNG OIL ODOR

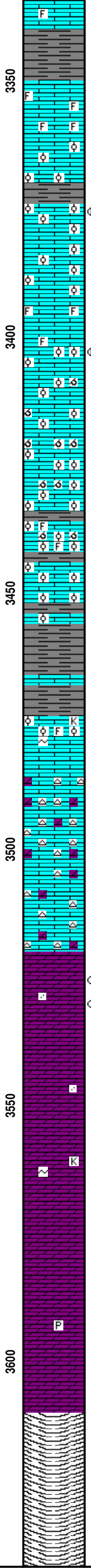
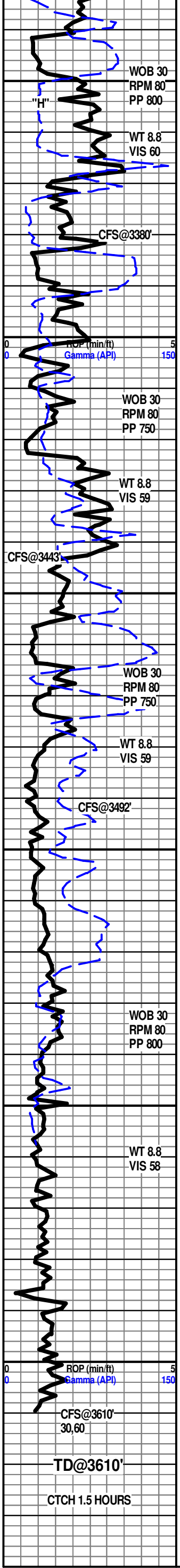
LANSING 'F' 3286' - 1344'

3286'-3288' LS- WHT TO OFF WHT W/ LT TN STN IN 40%, HD DNS TO V/BRIT, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG IP, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 10%, FR TO GD VUG POR IN 20%, WK FLSH CUT IN 50%, FR TO GD SLW STRM IN 30%, V/ LT TN LCH ON DISH FR OIL ODOR, TR OIL DROPLETS FLOATING IN DISH

3296'-3298' LS- OFF WHT TO CRM W/ TN OIL STN IN 70%, HD DNS, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD OOL IP, SLI TR OOLMLD IP, SLI TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 15%, FR MICRO VUG POR IN 10%, GD OOLMLD POR IN 5%, WK FLSH CUT IN 40%, WK SLW STRM IN 10% NO LCH ON DISH, WK OIL ODOR

3310'-3313' LS CRM W/ TN OIL STN IN 40%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD OOL THRU, TR OOLMLD IP, TR IMBD CALC XLS IP, BRT YEL GLD FLO IN 30%, PR TO FR INTR OOL POR IN 10%, PR OOLMLD POR IN 20%, PR MICRO VUG POR IN 1%, WK FLSH CUT IN 30%, GD SLW STRM IN 20%, NO LCH ON DISH, WK OIL ODOR





SH- GRN RED BRWN TO DK GY, SFT SPLNTY, SMTH TXT

LANSING "H" 3350' -1408'

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN MTRX, TR S-CHLKY IP, ABDT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS, V/F TO F XLN MTRX, RE-XLN IP, ABDT IMBD OOL THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

3374'-3375' LS- CRM TO LT TN W/ LT TN STN IN 20%, HD DNS TO BRIT IP, V/F TO FN XLN SUCRO MTRX, ABDT IMBD OOL THRU, DULL YEL GLD FLO IN 20% PR INTR OOL POR IN 10%, FR FLSH CUT IN 30%, FR SLW STRM IN 10%, NO LCH ON DISH

LS- CRM TO LT TN, HD DNS TO VBRIT, V/F TO F XLN CHLKY MTRX, S-SUCRO IP, SCAT IMBD OOL IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD FOSS FRG IP, SCAT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3402'-3404' LS- CRM TO LT TN W/ TN OIL STN IN 40%, HD DNS TO VBRIT, F XLN SUCRO MTRX, ABDT IMBD OOL, SLI TR OOLMLD, TR IMBD CALC XLS IP, SCAT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 30%, PR OOLMLD POR IN 5%, PR TO FR MICRO VUG POR IN 5%, FR FLSH CUT IN 40%, GD SLW STRM CUT IN 40%, TN LCH ON DISH, FR OIL ODOR

LS- CRM TO OFF WHT, HD DNT TO VBRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, SCAT OOLMLD IP, SCAT SFT WHT CHLK IN TRAY, NO VIS FLO, SCAT OOLMLD POR THRU, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, ABDT OOLMD THRU, SLI TR IMBD CALC XLS IP, NO VIS FLO, FR OOLMLD POR THRU, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, ABDT OOLMD THRU, SLI TR IMBD CALC XLS IP, TR IMBD FOSS FRG IP, ABDT SFT WHT CHLK SCAT IN TRAY, NO VIS FLO, FR OOLMLD POR THRU, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, RE-XLN IP, SCAT IMBD OOL IP, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3456' -1514'

SH- RED GY MOTT, SFT GMMY, SMTH TXT

LS LT TN TO TN, HD DNS TO BRIT, F TO MD RE-XLN MTRX, ABDT IMBD OOL THRU, IMBD FOSS FRG IP, SLI TR IMBD GLAUC OR KAOL, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRIT, V/F TO F XLN MTRX, ABDT WHT TO YEL CHRT IN TRAY, TR SCAT WEATHERED DOLO IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS , V/F TO F XLN MTRX, RE-XLN IP, ABDT WHT YEL TO ORNG CHRT IN TRAY, SCAT WEATHERED DOLO IN TRAY, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

ARBUCKLE 3520' -1578'

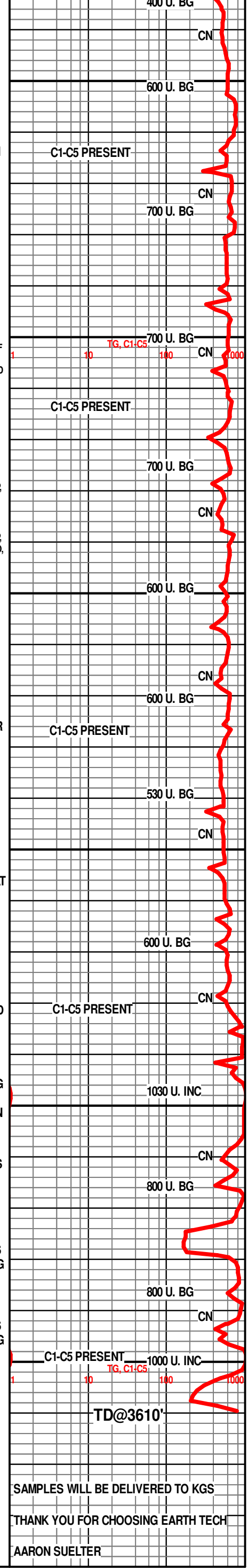
3524'-3525' DOLO- OFF WHT DOS IN 5%, HD DNS TO VBRIT, MD XLN RE-XLN MTRX, ABDT IMBD SM S-ANG DOLO GRNS, SLI TR SM RND QRTZ GRN IP, DUL YEL GLD FLO IN 20%, V/PR INTR GRN POR IN 5%, V/WK FLSH CUT IN 20%, GD SLW STRM IN 20%, NO LCH ON DISH

3528'-3531' DOLO- OFF WHT TO CRM DOS IN 10%, HD DNS TO V/ BRIT, MD XLN RE-XLN MTRX, ABDT IMBD SM S-ANG TO ANG DOLO GRNS THRU, TR IMBD SM S-RND QRTZ GRNS IP, DUL YEL GLD FLO IN 20%, FR INTR GRN POR IN 20%, V/ WK FLSH CUT IN 30%, WK SLW STRM IN 20%, NO LCH ON DISH

DOLO- OFF WHT TO CRM, HD DNS TO VBRIT, MD TO CRS XLN RE-XLN MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS, TR IMBD GLAUC OR KAOL, NO VIS FLO, FR TO GD INTR GRN POR IN 20%, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT, HD DNS TO VBRIT, MD TO CRS XLN RE-XLN MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, NO VIS FLO, FR INTR GRN POR IN 5%, NO VIS SHOW

DOLO- WHT TO OFF WHT, HD DNS TO VBRIT, MD TO CRS XLN RE-XLN MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, SLI TR IMBD PYR IP, NO VIS FLO, FR TO GD INTR GRN POR IN 10%, NO VIS SHOW



R.T.D. @ 5:30 AM 7/3/12

DROP SURVEY

T.O.F.L. @ 7:00 AM

WEATHERFORD/LIBERAL

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER