



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1080454
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
-----------------------------------	-----------------	---

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: _____

1080454

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	WAYNE FUNK 1-32
Doc ID	1080454

All Electric Logs Run

DENSITY
INDUCTION
MICRO
SONIC
SPECTRAL

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 07, 2012

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

Re: ACO1
API 15-167-23768-00-00
WAYNE FUNK 1-32
NW/4 Sec.32-15S-15W
Russell County, Kansas

Dear Production Department:

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

Should you have any questions or need additional information regarding subject well, please contact our office at 303-831-4673.

Respectfully,
CLAYTON CAMOZZI



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 · 740 West Wichita Ave · Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1057
 Email: cementing@qualityoilwell.net

Date: 1/19/2012
 Invoice # 214
 P.O.#:
 Due Date: 2/18/2012
 Division: Russell

Invoice

Handwritten: ✓ 122 AP 128 2/9

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

Reference:
 WAYNE FUNK 1-32

Description of Work:
 SURFACE JOB

<input checked="" type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>(Signature)</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 983.80	No				
Common-Class A	325	\$ 2,897.50	Yes				
Bulk Truck Matl-Material Service Charge	237	\$ 500.30	No				
Calcium Chloride	8	\$ 315.02	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 221.22	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 129.45	No				
8 5/8" Wooden Plug	1	\$ 80.22	Yes				
Premium Gel (Bentonite)	4	\$ 68.74	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	5,179.34
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(776.90)

	SubTotal for Taxable Items:	\$	2,859.81
	SubTotal for Non-Taxable Items:	\$	1,542.63

	Total:	\$	4,402.44
	Tax:	\$	237.36
	Amount Due:	\$	4,639.80
	Applied Payments:		
	Balance Due:	\$	4,639.80

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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RECEIVED

JAN 27 2012

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

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. 214

Date	1/17/12	Sec.	32	Twp.	15	Range	15	County	Russell	State	KS	On Location		Finish	5:15 AM
Lease	Wayne Funk			Well No.	1-32			Location Gorham, Sto Michaeli Rd, 1/2 E, 5 into							
Contractor	Discovery Drilling Rig # 2							Owner							
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4"			T.D.	435'			Charge To Sam Gary Jr. + Associates, Inc.							
Csg.	8 5/8"			Depth	435'			Street							
Tbg. Size				Depth				City							
Tool				Depth				State							
Cement Left in Csg.	20'			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	26 1/2 Bbls.			Cement Amount Ordered 2255x Com 3% CC 2% gel							

EQUIPMENT

Pumptrk	9	No.	Cementer	Paul	Common	225
			Helper			
Bulktrk	10	No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk	PU	No.	Driver	Brain	Gel.	4
			Driver			

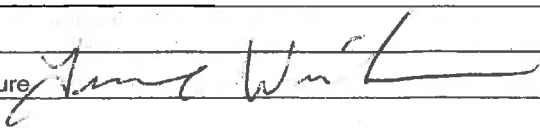
JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Est. Circ.	Sand
Mix 2255x	Handling 237
Displace	Mileage
Cement Circulated	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer 8 5/8"
	Baskets
	AFU inserts
	Float Shoe
	Latch Down
	Head + manifold
	Wood Plug
	Pumptrk Charge Surface
	Mileage 21

Thank You!!

X Signature 

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@ruraltel.net

Date: ~~2/26/2012~~ 1/26/12
 Invoice # 355
 P.O.#:
 Due Date: ~~3/27/2012~~ 2/27/12
 Division: Russell

Invoice

✓ 1202-AP-161 2/16

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

Reference:
 WAYNE FUNK 1-32

Description of Work:
 PROD LONG STRING

<input checked="" type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8300238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor	\$ 937.80	No		Salt (Fine)	19	\$272.41 Yes
Common-Class A	\$ 2,819.19	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$230.05	Yes
Cement Port Collar, 5 1/2"	\$ 2,567.57	Yes	Pump Truck Mileage-Job to Nearest Camp	21	\$215.24	No
Gilsonite	\$ 1,628.35	Yes	Cement Friction Reducer	50	\$184.86	Yes
CFL 117	\$ 1,113.46	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$125.95	No
5 1/2" Basket	\$ 944.86	Yes	Flo Seal	56	\$115.03	Yes
5 1/2" Turbolizer	\$ 595.68	Yes	KCL	2	\$61.33	Yes
Bulk Truck Matl-Material Service Charge	\$ 521.73	No				
CD-110	\$ 480.65	Yes				
Mud Clear	\$ 380.00	Yes				
Auto Fill Float Shoe, 5 1/2"	\$ 314.27	Yes				

Invoice Terms:

Net 30

SubTotal:	\$ 13,508.45
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (2,026.27)
SubTotal for Taxable Items:	\$ 9,951.56
SubTotal for Non-Taxable Items:	\$ 1,530.62
Total:	\$ 11,482.18
Tax:	\$ 825.98
Amount Due:	\$ 12,308.16
Applied Payments:	
Balance Due:	\$ 12,308.16

8.30% Russell County Sales Tax

Thank You For Your Business!

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JAN 31 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

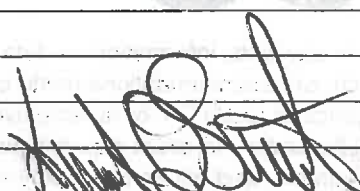
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 355

Date 1-23-12		Sec. 32	Twp. 15	Range 15	County RUSSELL	State KANSAS	On Location	Finish 10:45AM
Lease WAYNE FLINK		Well No. 1-32		Location COCHARD TO 2174 - STO MENEALTS RD - 1/4 E N. INFO				
Contractor DISCOVERY #2				Owner SAM GARY JR.				
Type Job PRODUCTION 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. 3580			Charge To SAM GARY JR.			
Csg. 5 1/2" - 15 5/8" NEW		Depth 3515 90			Street 1515 WYNKOP, STE 700			
Tbg. Size		Depth			City DENVER State COLORADO			
Tool BET COLAR		Depth 991' g.l.			The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint 20.88			Cement Amount Ordered 2250 PROD - 10% - ALT - 5% SOLVENTE			
Meas Line		Displace 84 BLS.			Kilz Fio Seal 250 - 30 beads - 800 units - 500# R-203 KL 500 mud			
EQUIPMENT								
Pumptrk 15	No.	Cementer WISO			Common 225			
Bulktrk	No.	Driver MICHAEL			Poz. Mix			
Bulktrk PU	No.	Driver RICK			Gel.			
JOB SERVICES & REMARKS				Calcium CD 110 117#				
Remarks:				Hulls RCL 20 BBL				
Rat Hole 30 SX				Salt 19				
Mouse Hole 15 SX				Flowseal 56#				
Centralizers 60, 62 - TURBOS 1, 3, 5, 7, 9, 11, 13, 15				Kol-Seal 1057#				
Baskets 3, 9, 15, 61				Mud CLR 48 500 gal				
D/V or (Port Collar) DEPTH 991' - 61ST JOINT				CFL-117 or CD110 CAF 38 50#				
LIFF PSI 700# Land Plug @ 1200#				Sand CFL-117 176#				
				Handling				
				Mileage				
				FLOAT EQUIPMENT				
				Guide Shoe				
				Centralizer 2 - 5 1/2" - 8 TURBOS				
				Baskets 4 - 5 1/2"				
				AFU Inserts				
				Float Shoe 1 - 5 1/2"				
				Latch Down 1 - 5 1/2"				
				PORT COLLAR - ROTATING HEAD				
				Pumptrk Charge prod Long String				
				Mileage 21				
				Tax				
				Discount				
				Total Charge				

X Signature



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: 1/28/2011
 Invoice # 219

P.O.#:

Due Date: 2/27/2011

Division: Russell

V1209 AP-346

2/16

Invoice

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

Reference:
 WAYNE FUNK 1-36

Description of Work:
 PORT COLLAR

<input type="checkbox"/> DRLG	<input checked="" type="checkbox"/> COMP	<input type="checkbox"/> W/O	<input type="checkbox"/> LOE	<input type="checkbox"/> GG
Account	8300.238			
Well/Prospect				
Deck				
AFE				
Approval	CA [Signature]			
Description				

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
non, MetsoBeads, Plater, Gel, FloSeal, Calcium)	215	\$ 4,339.18	Yes				
Bulk Truck Matl-Material Service Charge	215	\$ 453.89	No				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 221.22	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 129.45	No				
Flo Seal	50	\$ 105.56	Yes				

Invoice Terms:

Net 30

SubTotal:	\$	6,213.15
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(931.97)
<hr/>		
SubTotal for Taxable Items:	\$	3,778.02
SubTotal for Non-Taxable Items:	\$	1,503.15
<hr/>		
Total:	\$	5,281.18
Tax:	\$	313.58
<hr/>		
Amount Due:	\$	5,594.75
Applied Payments:		
Balance Due:	\$	5,594.75

8.30% Russell County Sales Tax

Thank You For Your Business!

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FEB 06 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

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. 219

Date	1/26/12	Sec.	Twp.	Range	County	State	On Location	Finish	
					Russell	KS		11:30AM	
Lease	Wayne Funk	Well No.	1-36	Location					Gorham, S to Michael's Rd, 1/2 E, S into
Contractor	Ace Well Service				Owner				
Type Job	Port Collar				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	T.D.				Charge To				
Csg.	5 1/2"				Sam Gary Jr. + Associates, Inc.				
Tbg. Size	2 7/8"				Street				
Tool	DAN'S				City				
Cement Left in Csg.	Shoe Joint				State				
Meas Line	Displace				The above was done to satisfaction and supervision of owner agent or contractor.				
EQUIPMENT					Cement Amount Ordered				
					215 sx Q-MDC 1/4# Floate				
Pumptrk	9	No.	Cementer.	Paul	Common				
			Helper		215				
Bulktrk	8	No.	Driver	Matt	Poz. Mix				
			Driver						
Bulktrk	PV	No.	Driver	Brian	Gel.				
			Driver						
JOB SERVICES & REMARKS					Calcium				
Remarks:					Hulls				
Rat Hole					Salt				
Mouse Hole					Flowseal 50#				
Centralizers					Kol-Seal				
Baskets					Mud CLR 48				
D/V or Port Collar					CFL-117 or CD110 CAF 38				
PSE 1000#					Sand				
Open Tool					Handling 215				
Mix 215 sx to Circulate Cement					Mileage				
Displace					FLOAT EQUIPMENT				
Close tool 1000#					Guide Shoe				
Run 5 Hrs. Wash Clean					Centralizer				
					Baskets				
					AFU Inserts				
					Float Shoe				
					Latch Down				
					Pumptrk Charge				
					Mileage 21				
					Tax				
					Discount				
					Total Charge				
X Signature					G. Kretz				

Thank You!!



DRILL STEM TEST REPORT

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

1515 Wynkoop
Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

Wayne Funk #1-32

32-15s-15w Russell

Start Date: 2012.01.20 @ 06:00:42

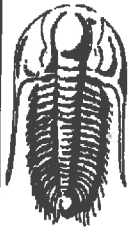
End Date: 2012.01.20 @ 14:14:36

Job Ticket #: 46828 DST #: 1

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

Printed: 2012.01.20 @ 15:04:42

Samuel Gary Jr & Associates
32-15s-15w Russell
Wayne Funk #1-32
DST # 1
LKC A-C
2012.01.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46828 DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.01.20 @ 06:00:42

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:07

Time Test Ended: 14:14:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: **3150.00 ft (KB) To 3214.00 ft (KB) (TVD)**

Total Depth: 3214.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1918.00 ft (KB)

1910.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: 75.35 psig @ 3154.00 ft (KB)

Start Date: 2012.01.20 End Date: 2012.01.20

Start Time: 06:00:42 End Time: 14:14:36

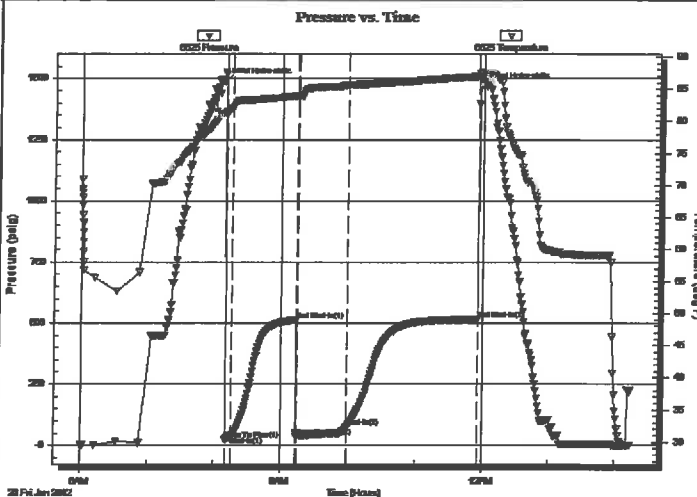
Capacity: 8000.00 psig

Last Calib.: 2012.01.20

Time On Btm: 2012.01.20 @ 08:07:07

Time Off Btm: 2012.01.20 @ 11:59:36

TEST COMMENT: 5-IFP-w k bl, 1/2"to 3"bl
60-ISIP-no bl
40-FFP-strg bl in 4 min
120-FSIP-surface bl 1st 55min,, then died



PRESSURE SUMMARY

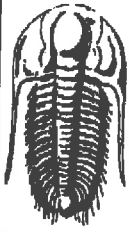
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1485.38	81.23	Initial Hydro-static
3	25.73	81.42	Open To Flow (1)
8	36.19	82.16	Shut-In(1)
67	511.62	83.96	End Shut-In(1)
68	36.32	83.84	Open To Flow (2)
112	75.35	85.64	Shut-In(2)
229	514.76	86.97	End Shut-In(2)
233	1467.08	87.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	300'GIP	0.00
70.00	HO&GCM 10%G40%O50%M	0.71

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46828

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.01.20 @ 06:00:42

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:07

Time Test Ended: 14:14:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: **3150.00 ft (KB) To 3214.00 ft (KB) (TVD)**

Total Depth: 3214.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1918.00 ft (KB)

1910.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 3154.00 ft (KB)

Start Date: 2012.01.20

End Date: 2012.01.20

Capacity: 8000.00 psig

Last Calib.: 2012.01.20

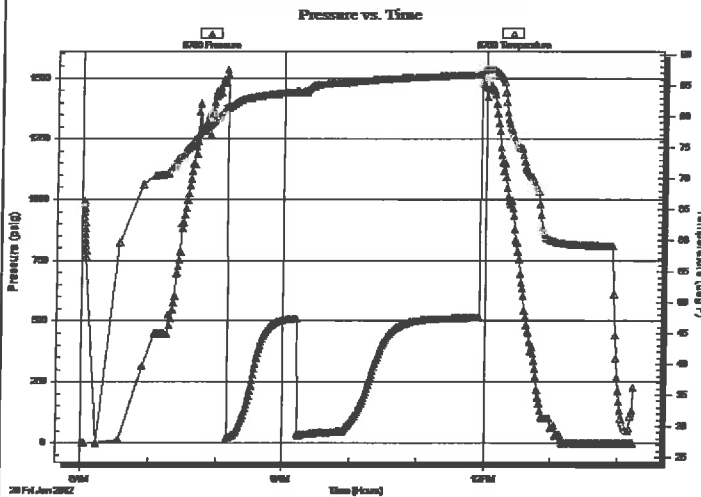
Start Time: 06:01:42

End Time: 14:14:06

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-w k bl, 1/2"to 3"bl
60-ISIP-no bl
40-FFP-strg bl in 4 min
120-FSIP-surface bl 1st 55min,, then died



PRESSURE SUMMARY

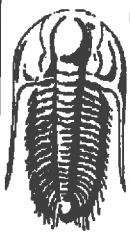
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	300'GIP	0.00
70.00	HO&GCM 10%G40%O50%M	0.71

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

ATTN: Clayton Camozzi

Job Ticket: 46828

DST#: 1

Test Start: 2012.01.20 @ 06:00:42

GENERAL INFORMATION:

Formation: LKC A-C

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:10:07

Time Test Ended: 14:14:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3150.00 ft (KB) To 3214.00 ft (KB) (TVD)

Total Depth: 3214.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1918.00 ft (KB)

1910.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8374 Fluid

Press@RunDepth: psig @ 3116.00 ft (KB)

Start Date: 2012.01.20

End Date: 2012.01.20

Capacity: 8000.00 psig

Last Calib.: 2012.01.20

Start Time: 06:00:20

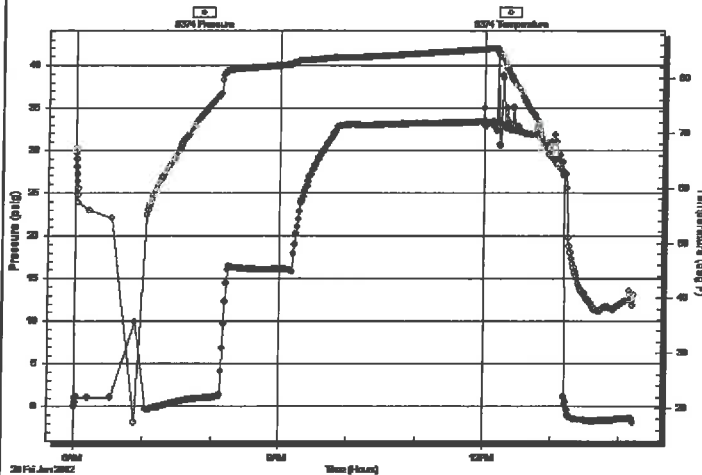
End Time: 14:12:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 5-IFP-w k bl , 1/2"to 3"bl
60-ISIP-no bl
40-FFP-strg bl in 4 min
120-FSIP-surface bl 1st 55min,, then died

Pressure vs. Time



PRESSURE SUMMARY

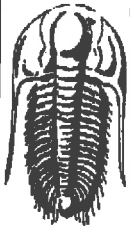
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	300'GIP	0.00
70.00	HO&GCM 10%G40%O50%M	0.71

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46828

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.01.20 @ 06:00:42

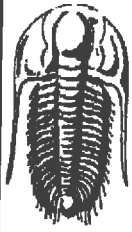
Tool Information

Drill Pipe:	Length: 3098.00 ft	Diameter: 3.80 inches	Volume: 43.46 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25500.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 43.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3150.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Recorder	0.00	8374	Fluid	3116.00	
Blank Spacing	4.00			3120.00	
Change Over Sub	1.00			3121.00	
Shut In Tool	5.00			3126.00	
Sampler	2.00			3128.00	
Hydraulic tool	5.00			3133.00	
Jars	5.00			3138.00	
Safety Joint	2.00			3140.00	
Packer	5.00			3145.00	34.00 Bottom Of Top Packer
Packer	5.00			3150.00	
Stubb	1.00			3151.00	
Perforations	3.00			3154.00	
Recorder	0.00	6625	Inside	3154.00	
Recorder	0.00	8700	Outside	3154.00	
Blank Spacing	33.00			3187.00	
Perforations	24.00			3211.00	
Bullnose	3.00			3214.00	64.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46828

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.01.20 @ 06:00:42

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 6.37 in³
Resistivity: ohm.m
Salinity: 2300.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	300'GIP	0.000
70.00	HO&GCM 10%G40%O50%M	0.709

Total Length: 70.00 ft Total Volume: 0.709 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data: 350#PSI 600MLgas 1000MLOil 400MLmud

Serial #: 6625

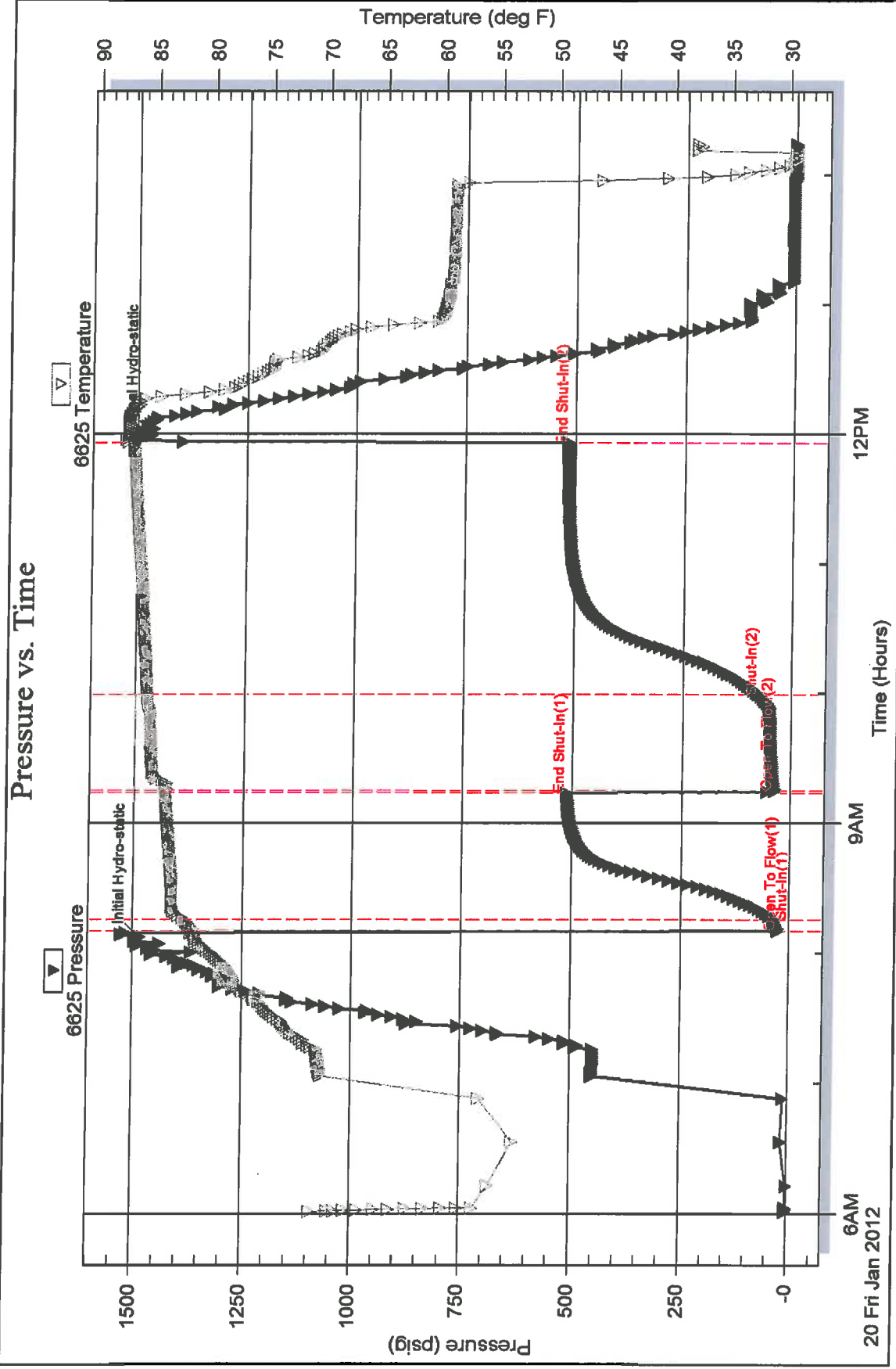
Inside

Samuel Gary Jr & Associates

Wayne Funk #1-32

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46828

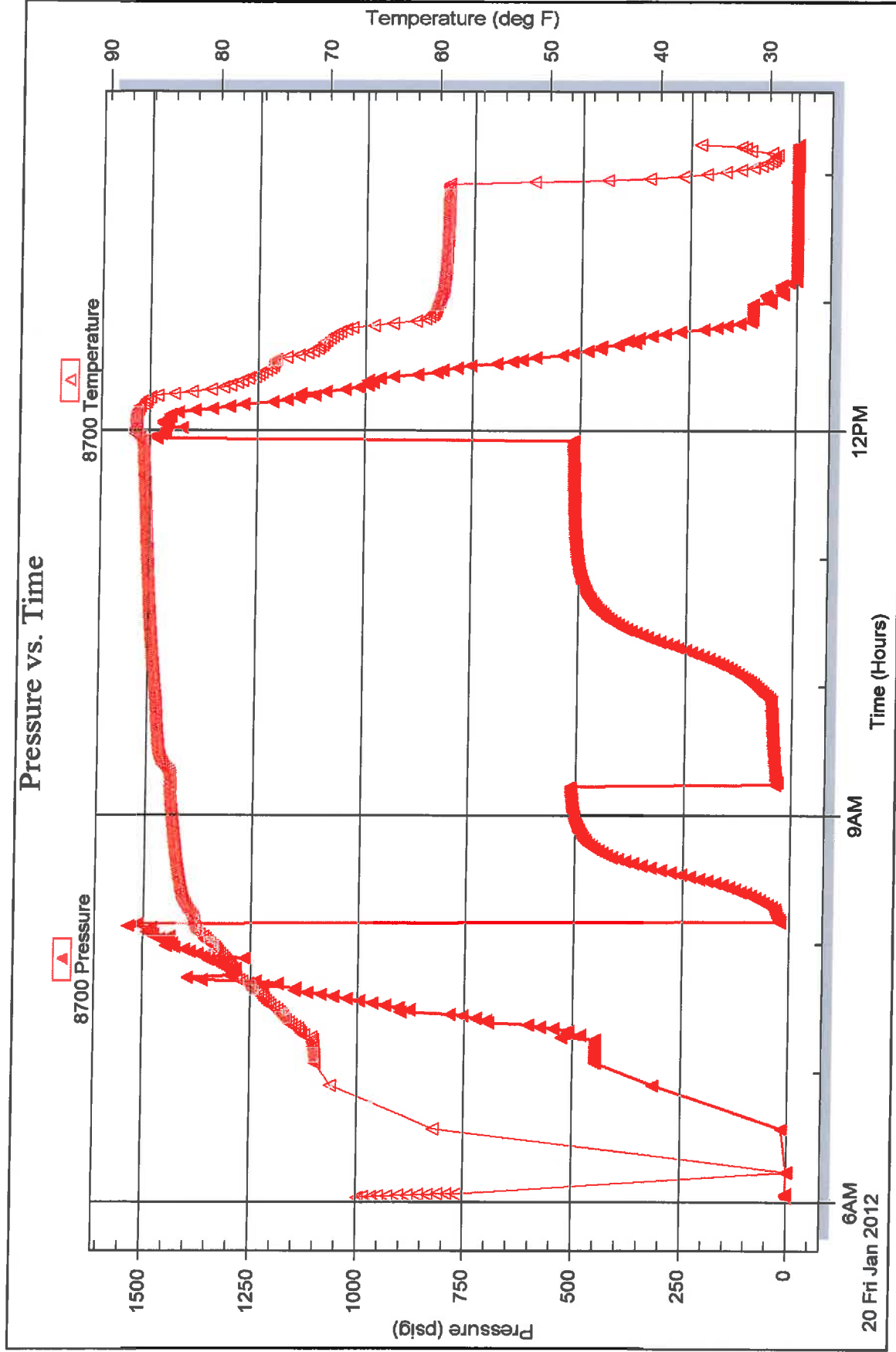
Printed: 2012.01.20 @ 15:04:44

Serial #: 8700

Outside Samuel Gary Jr & Associates

Wayne Funk #1-32

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 46828

Printed: 2012.01.20 @ 15:04:44

Serial #: 8374

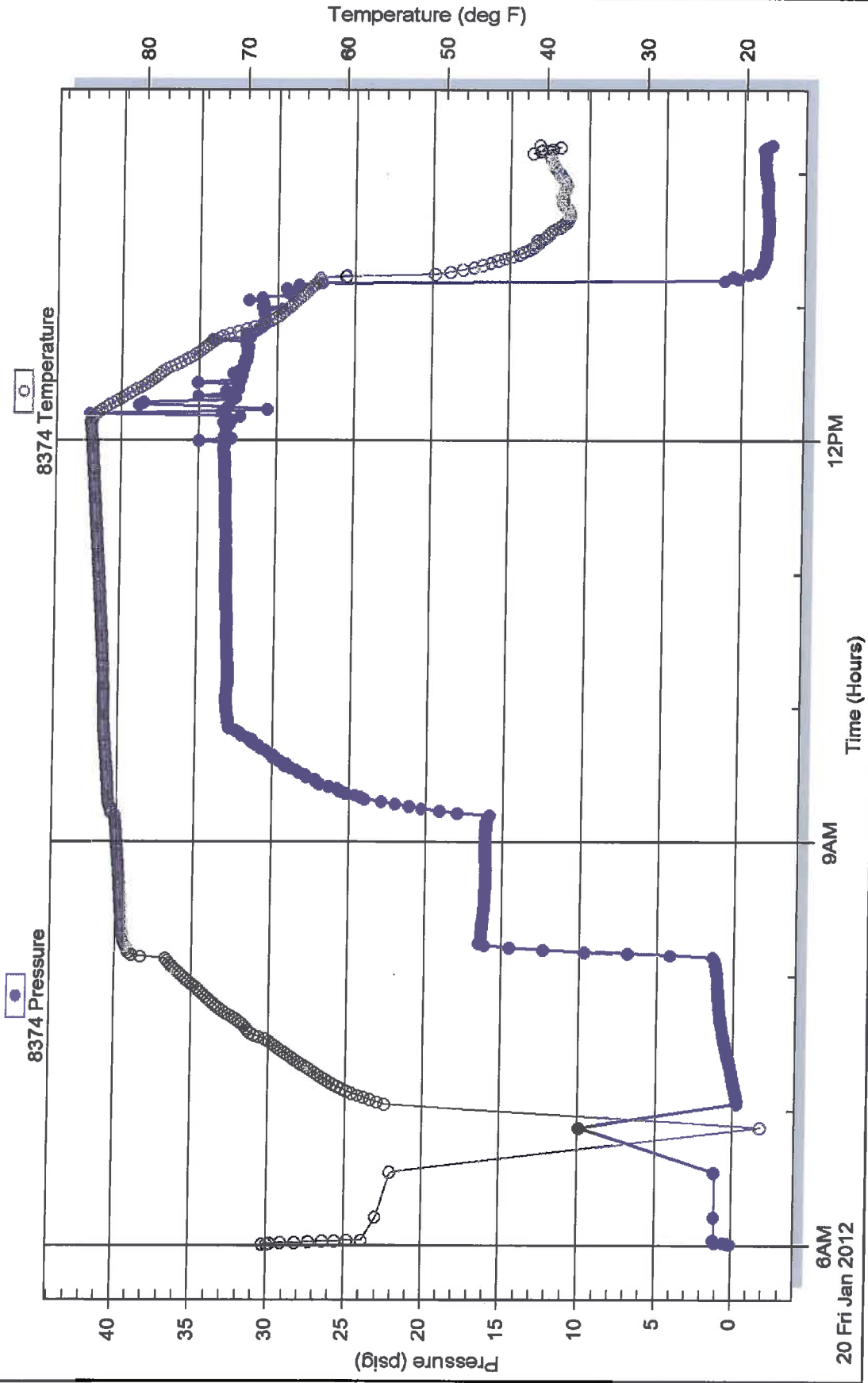
Samuel Gary Jr & Associates

Wayne Funk #1-32

Fluid

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

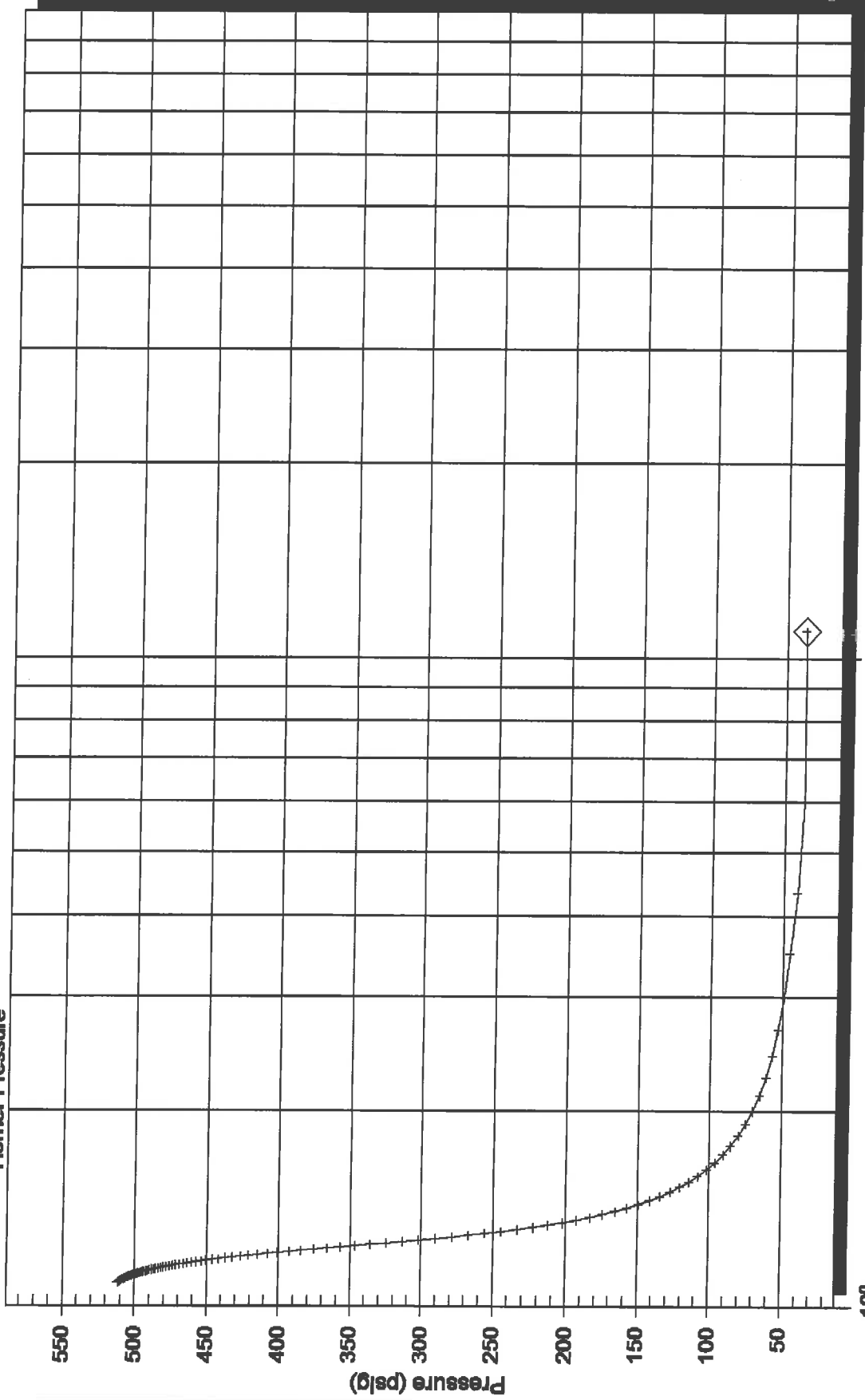
Ref. No: 46628

Printed: 2012.01.20 @ 15:04:44

Horner Plot

+

Horner Pressure



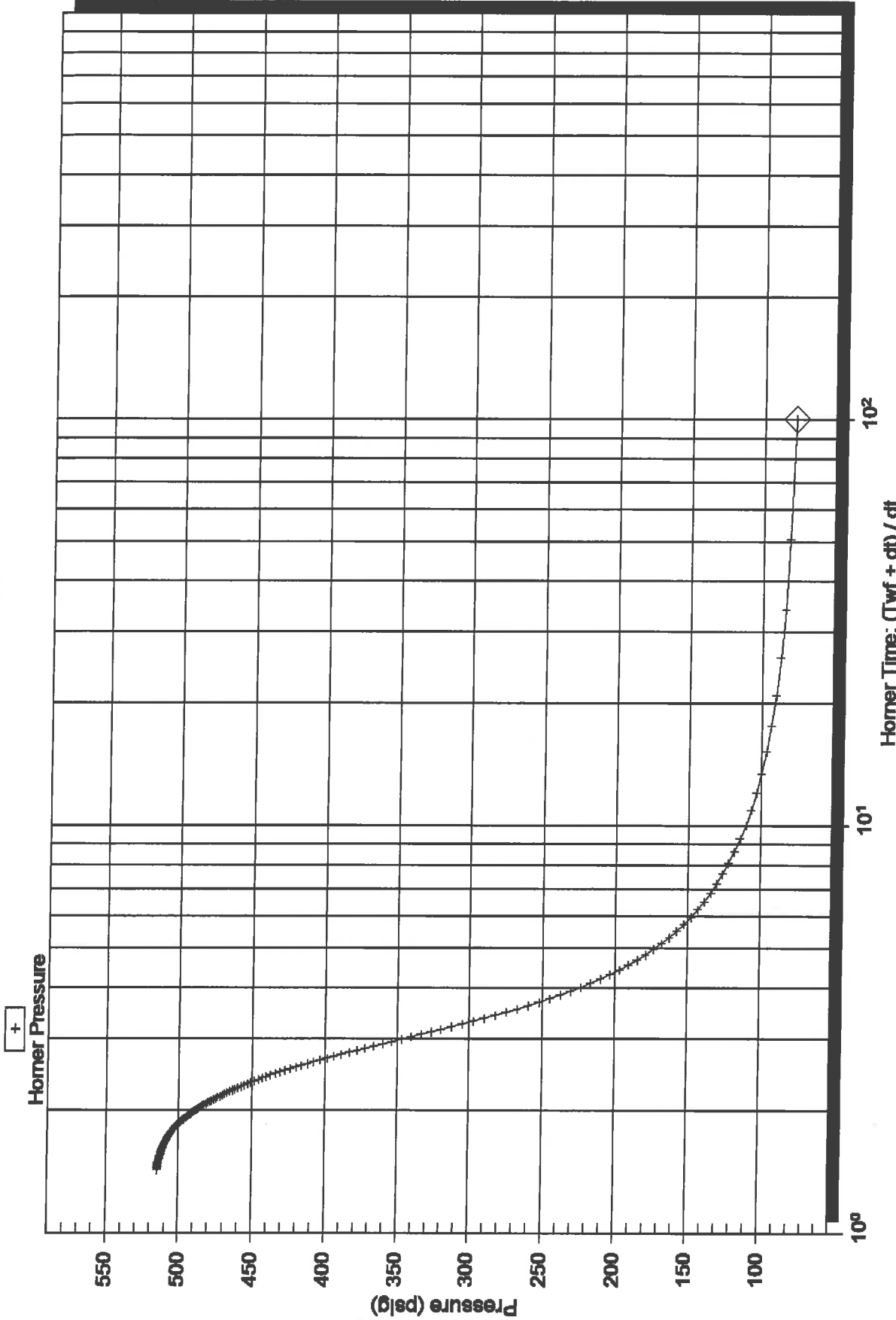
Horner Time: (Twf + dt) / dt

Serial Number: 6625 (Inside)

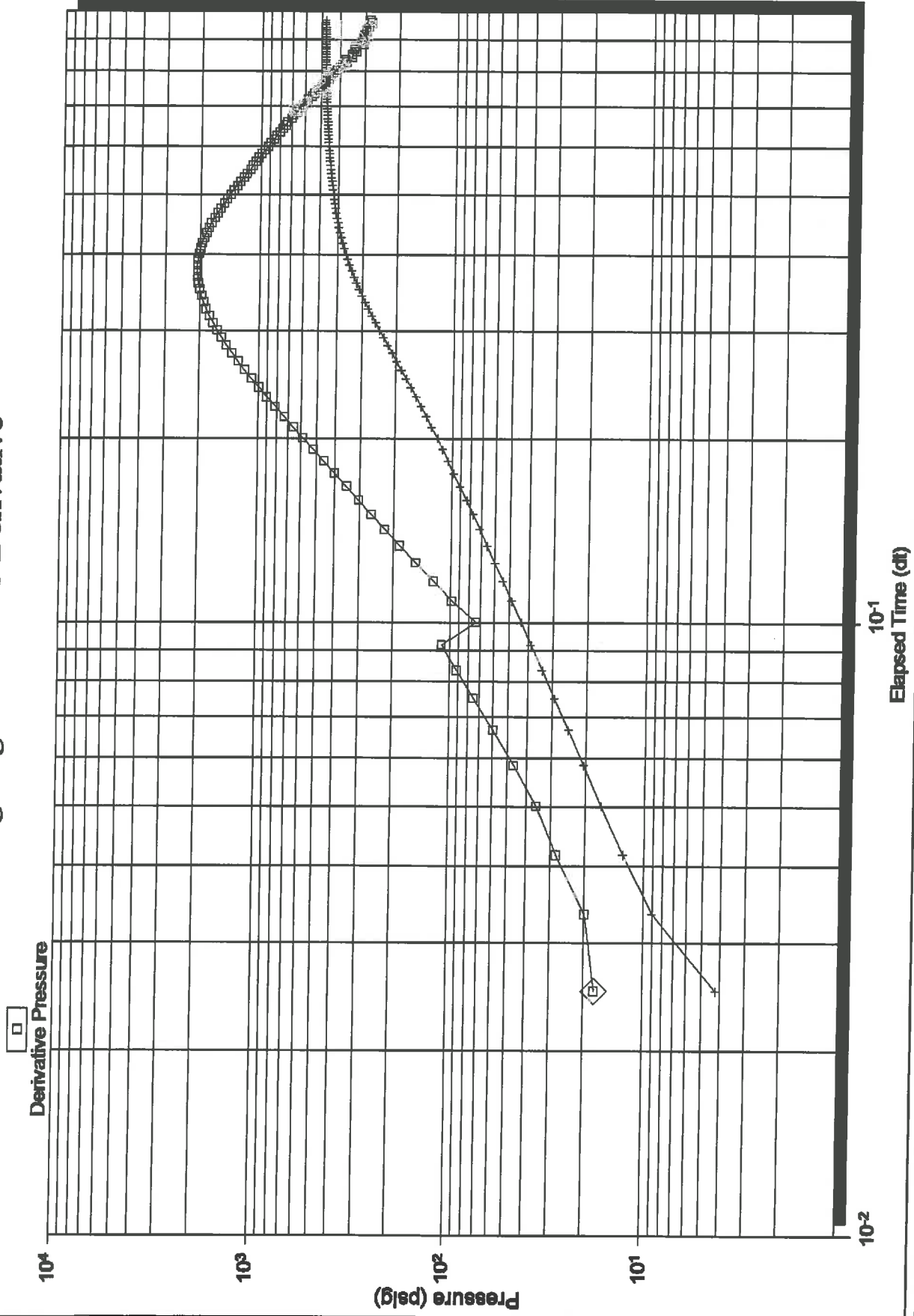
P* : Slope (m) : kpa/log cycle

Flow Cycle: 1

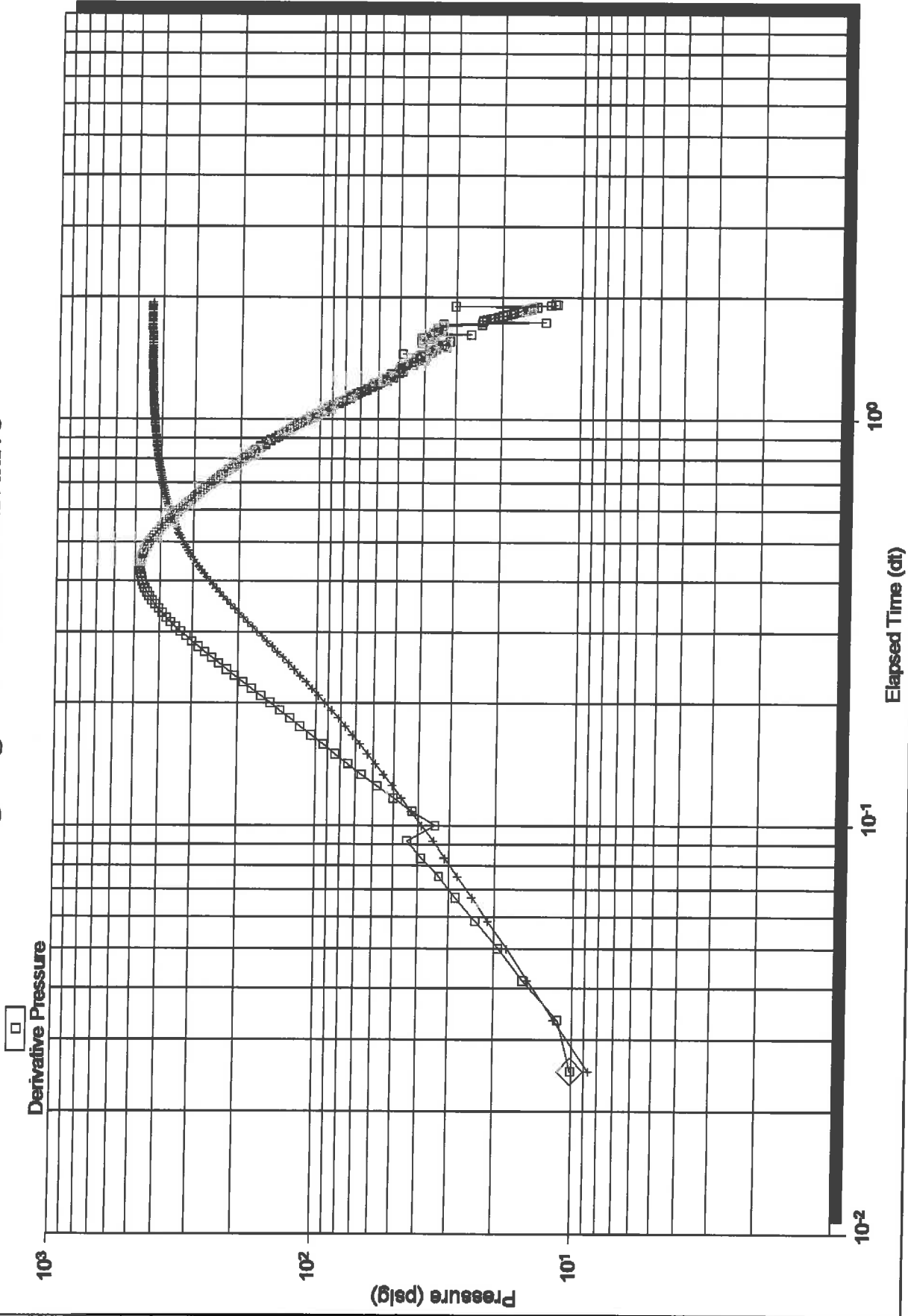
Horner Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

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

1515 Wynkoop
Ste 700
Denver Co 80202

ATTN: Clayton Camozzi

Wayne Funk #1-32

32-15s-15w Russell

Start Date: 2012.01.21 @ 02:19:00

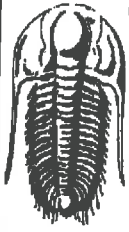
End Date: 2012.01.21 @ 09:28:30

Job Ticket #: 46347 DST #: 2

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

Printed: 2012.01.24 @ 10:49:13

Samuel Gary Jr & Associates
32-15s-15w Russell
Wayne Funk #1-32
DST # 2
KC "F-G"
2012.01.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46347

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.01.21 @ 02:19:00

GENERAL INFORMATION:

Formation: KC "F-G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:54:00

Time Test Ended: 09:28:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 42

Interval: 3237.00 ft (KB) To 3288.00 ft (KB) (TVD)

Total Depth: 3288.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1918.00 ft (KB)

1910.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press@RunDepth: 47.69 psig @ 3274.00 ft (KB)

Start Date: 2012.01.21

End Date:

2012.01.21

Capacity: 8000.00 psig

Last Calib.: 2012.01.21

Start Time: 02:19:05

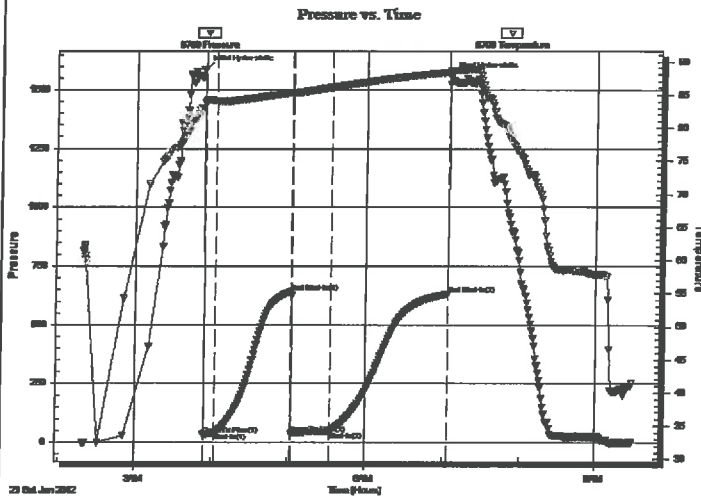
End Time:

09:28:29

Time On Btm: 2012.01.21 @ 03:53:30

Time Off Btm: 2012.01.21 @ 07:05:00

TEST COMMENT: 10 - IF- 1/2" Blow.
60 - IS- No blow back.
30 - FF- 5" Blow instantly, died off to a 1" blow.
90 - FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1585.97	83.83	Initial Hydro-static
1	33.74	83.86	Open To Flow (1)
9	40.35	84.04	Shut-In(1)
69	640.70	85.33	End Shut-In(1)
70	37.70	85.22	Open To Flow (2)
100	47.69	86.12	Shut-In(2)
191	631.23	88.37	End Shut-In(2)
192	1557.99	88.67	Final Hydro-static

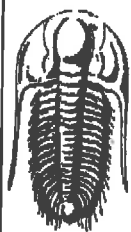
Recovery

Length (ft)	Description	Volume (bbl)
40.00	GVSOOM, 5%O,5%G, 90%M	0.28
0.00	31' of G.I.P.	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

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46347

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.01.21 @ 02:19:00

GENERAL INFORMATION:

Formation: **KC "F-G"**

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

Time Tool Opened: **03:54:00**

Time Test Ended: **09:28:30**

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Cody Bloedorn**

Unit No: **42**

Interval: **3237.00 ft (KB) To 3288.00 ft (KB) (TVD)**

Total Depth: **3288.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **1918.00 ft (KB)**

1910.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: **psig @ 3274.00 ft (KB)**

Start Date: **2012.01.21**

End Date: **2012.01.21**

Capacity: **8000.00 psig**

Last Calib.: **2012.01.21**

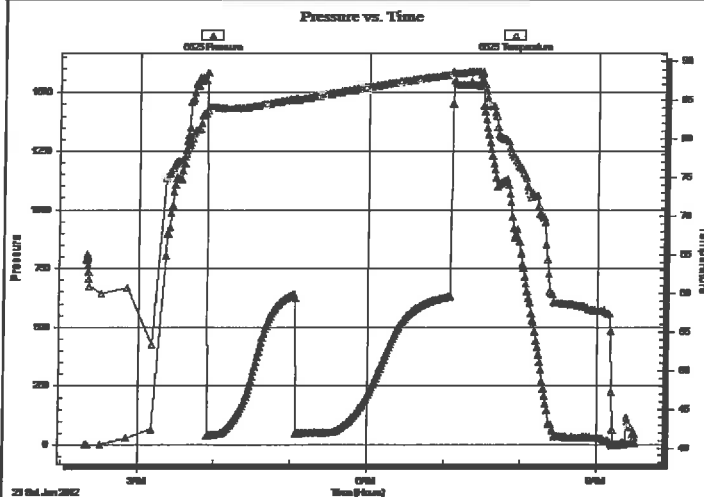
Start Time: **02:19:05**

End Time: **09:30:29**

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IF- 1/2" Blow .
60 - IS- No blow back.
30 - FF- 5" Blow instantly, died off to a 1" blow .
90 - FS- No blow back.



PRESSURE SUMMARY

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

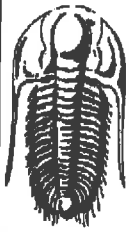
Recovery

Length (ft)	Description	Volume (bbl)
40.00	GVSOCM, 5%O,5%G, 90%M	0.28
0.00	31' of G.I.P.	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

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46347

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.01.21 @ 02:19:00

GENERAL INFORMATION:

Formation: KC "F-G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:54:00

Time Test Ended: 09:28:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 42

Interval: 3237.00 ft (KB) To 3288.00 ft (KB) (TVD)

Total Depth: 3288.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1918.00 ft (KB)

1910.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8374

Fluid

Press@RunDepth: psig @ 3203.00 ft (KB)

Start Date: 2012.01.21

End Date: 2012.01.21

Capacity: 8000.00 psig

Last Calib.: 2012.01.21

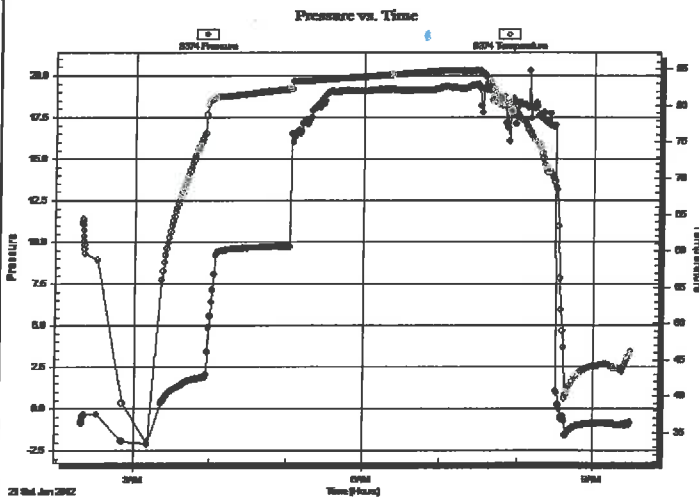
Start Time: 02:19:05

End Time: 09:29:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 10 - IF- 1/2" Blow.
60 - IS- No blow back.
30 - FF- 5" Blow instantly, died off to a 1" blow.
90 - FS- No blow back.



PRESSURE SUMMARY

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

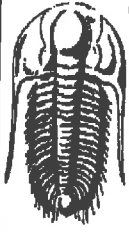
Recovery

Length (ft)	Description	Volume (bbl)
40.00	GVSOCM, 5%O,5%G, 90%M	0.28
0.00	31' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46347

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.01.21 @ 02:19:00

Tool Information

Drill Pipe:	Length: 3189.00 ft	Diameter: 3.80 inches	Volume: 44.73 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 44.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3237.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	85.00 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	8374	Fluid	3203.00	
Blank Spacing	4.00			3207.00	
Change Over Sub	1.00			3208.00	
Shut In Tool	5.00			3213.00	
Sampler	2.00			3215.00	
Hydraulic tool	5.00			3220.00	
Jars	5.00			3225.00	
Safety Joint	2.00			3227.00	
Packer	5.00			3232.00	34.00 Bottom Of Top Packer
Packer	5.00			3237.00	
Stubb	1.00			3238.00	
Perforations	3.00			3241.00	
Blank Spacing	33.00			3274.00	
Recorder	0.00	6625	Inside	3274.00	
Recorder	0.00	8700	Outside	3274.00	
Perforations	11.00			3285.00	
Bullnose	3.00			3288.00	51.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

32-15s-15w Russell

1515 Wynkoop
Ste 700
Denver Co 80202

Wayne Funk #1-32

Job Ticket: 46347

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.01.21 @ 02:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GVSOCM, 5%O,5%G, 90%M	0.279
0.00	31' of G.I.P.	0.000

Total Length: 40.00 ft Total Volume: 0.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

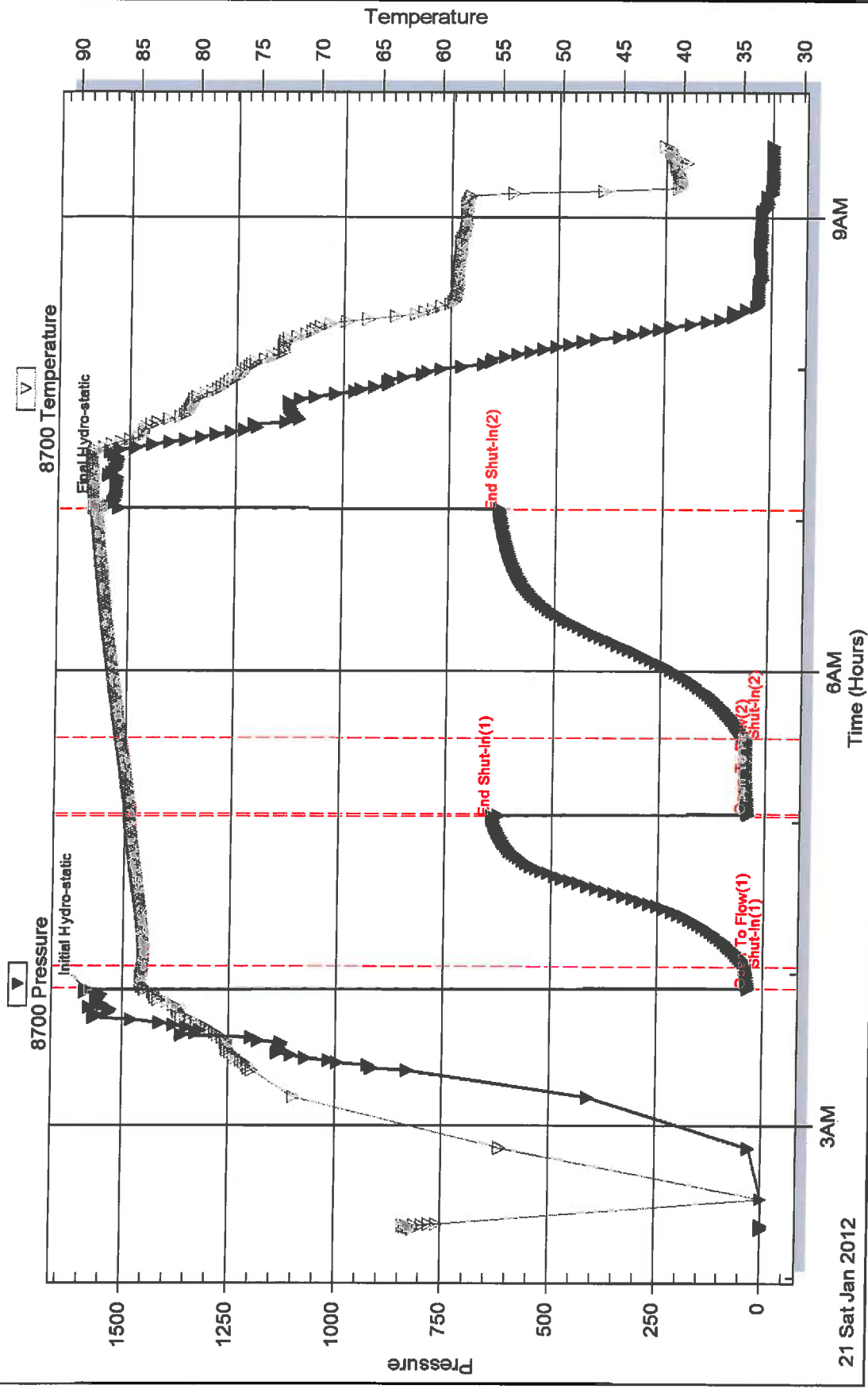
Serial #: 8700

Outside Samuel Gary Jr & Associates

Wayne Funk #1-32

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46347

Printed: 2012.01.24 @ 10:49:14

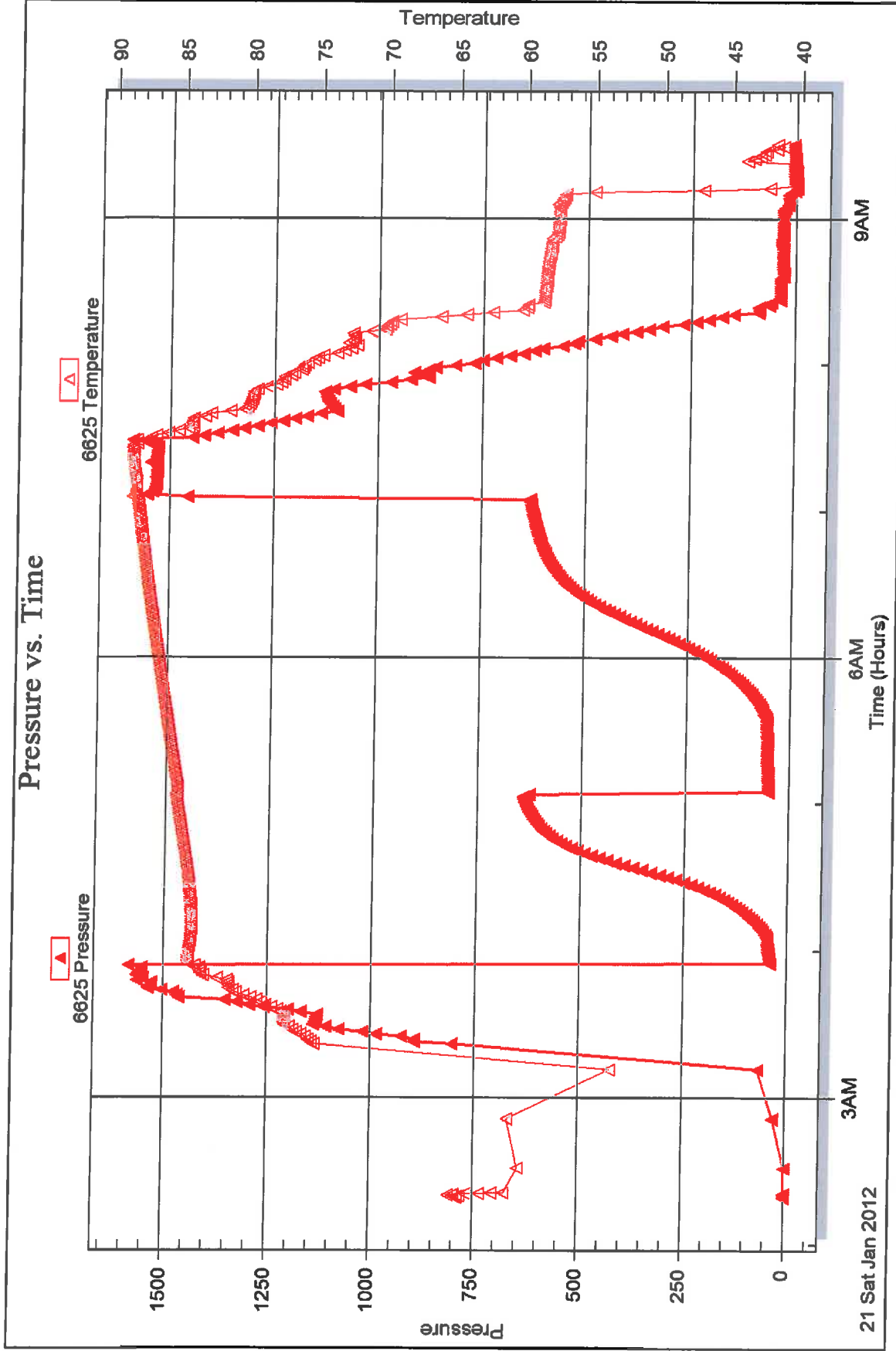
Serial #: 6625

Inside

Samuel Gary Jr & Associates

Wayne Funk #1-32

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 46347

Printed: 2012.01.24 @ 10:49:14

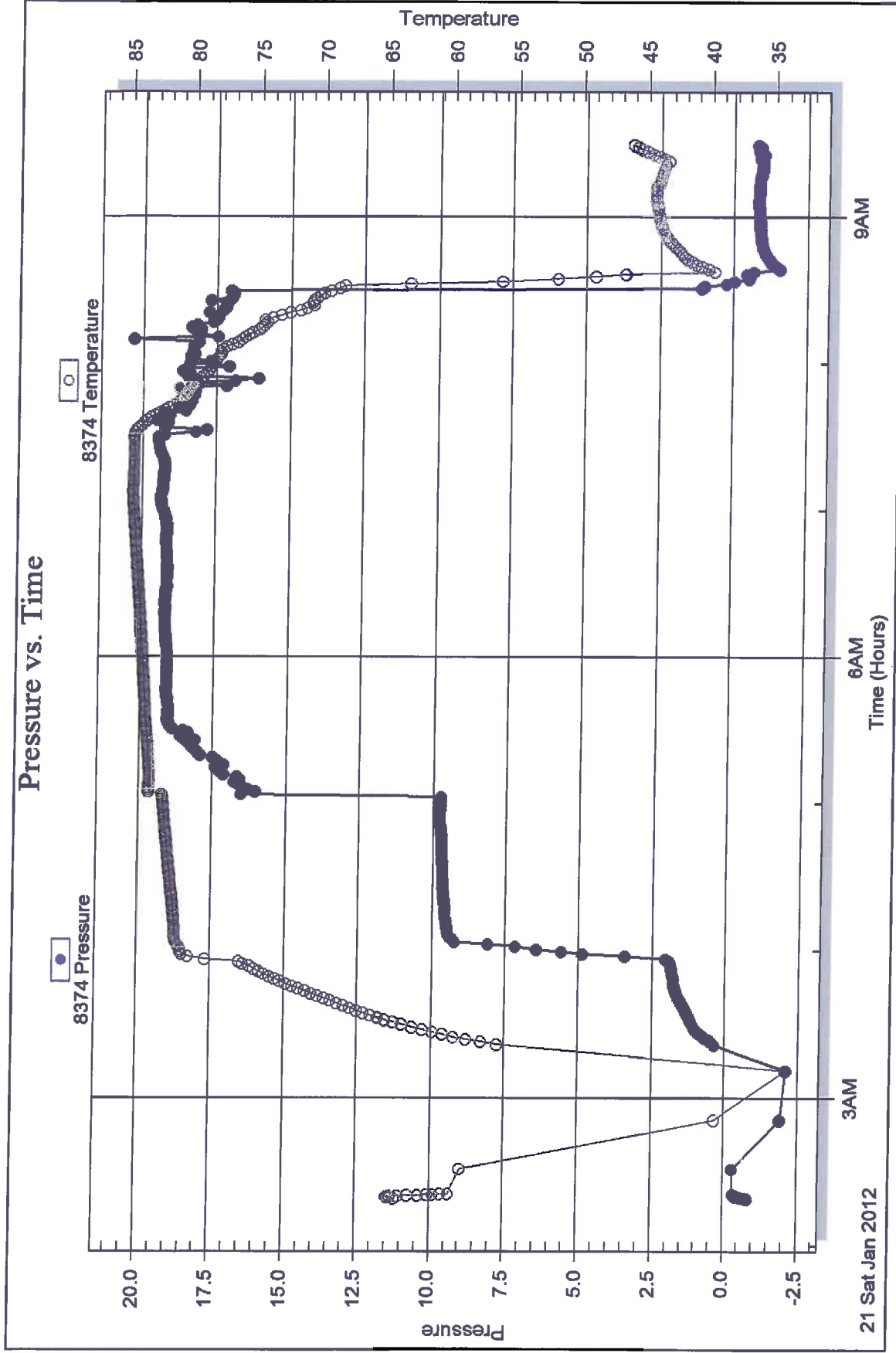
Serial #: 8374

Fluid

Samuel Gary Jr & Associates

Wayne Funk #1-32

DST Test Number: 2

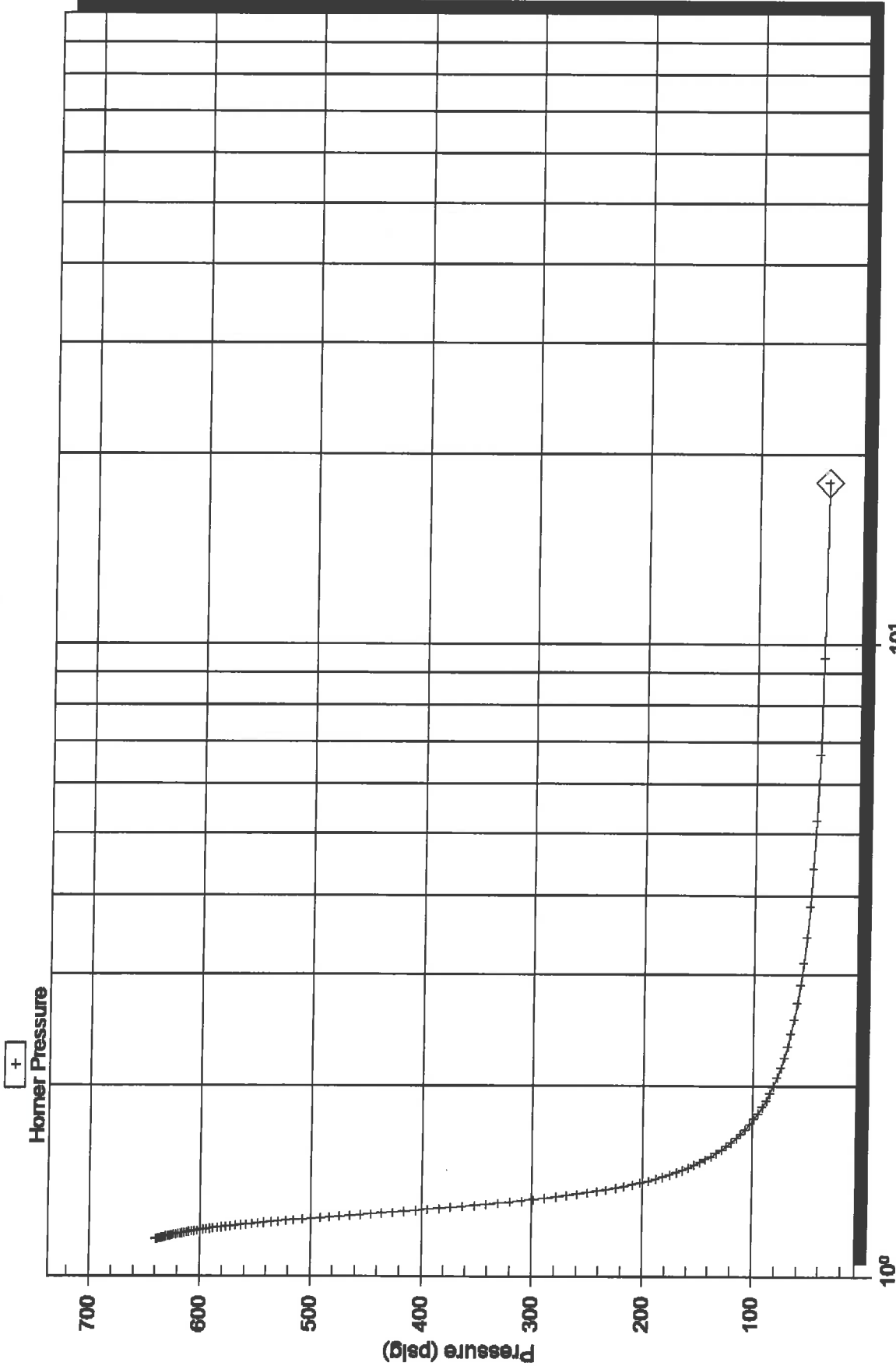


Trilobite Testing, Inc

Ref. No: 46347

Printed: 2012.01.24 @ 10:49:14

Horner Plot



Serial Number: 8700 (Outside)

Horner Time: $(T_{wf} + dt) / dt$

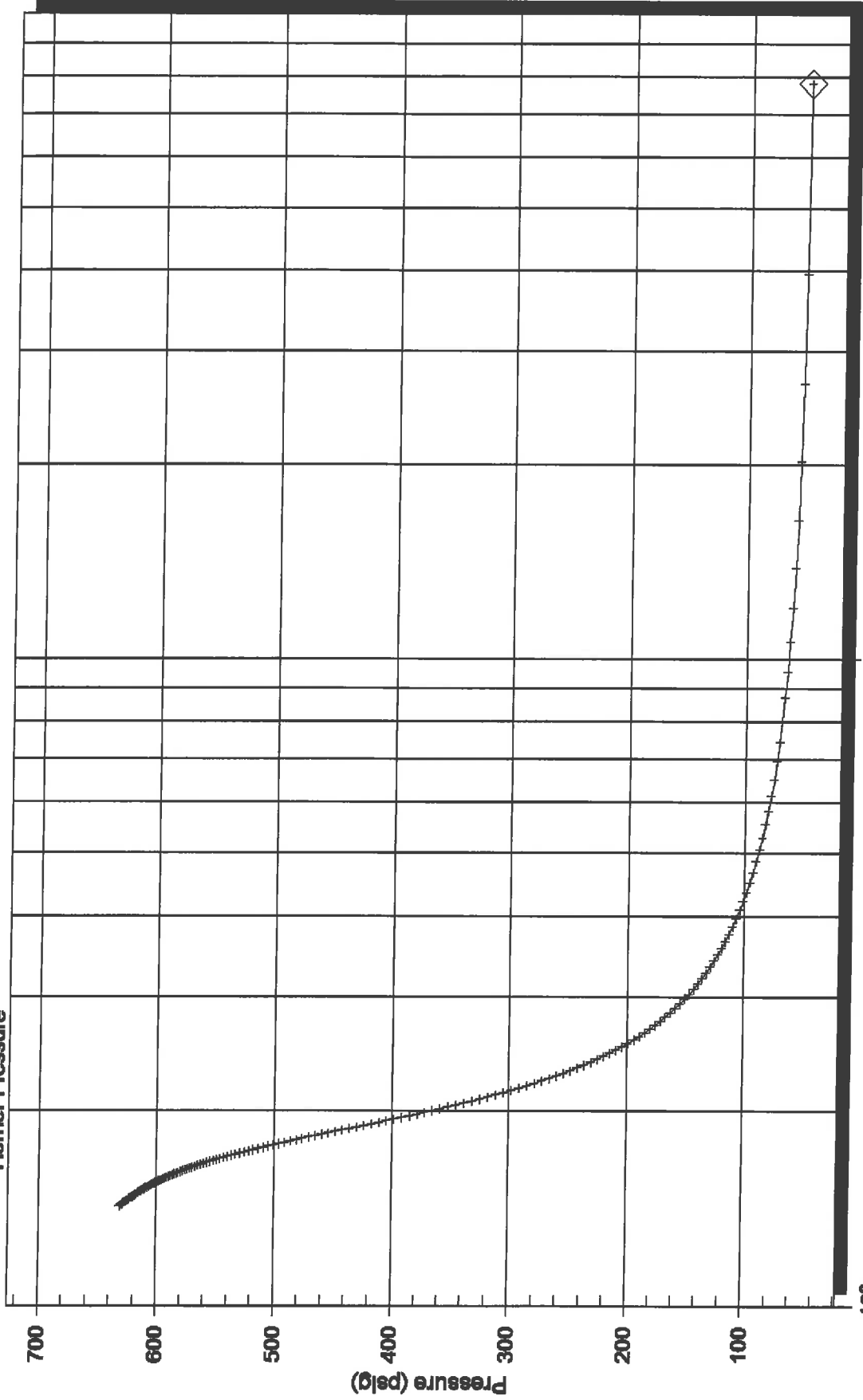
Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot

+

Horner Pressure



10¹

Horner Time: (Twf + dt) / dt

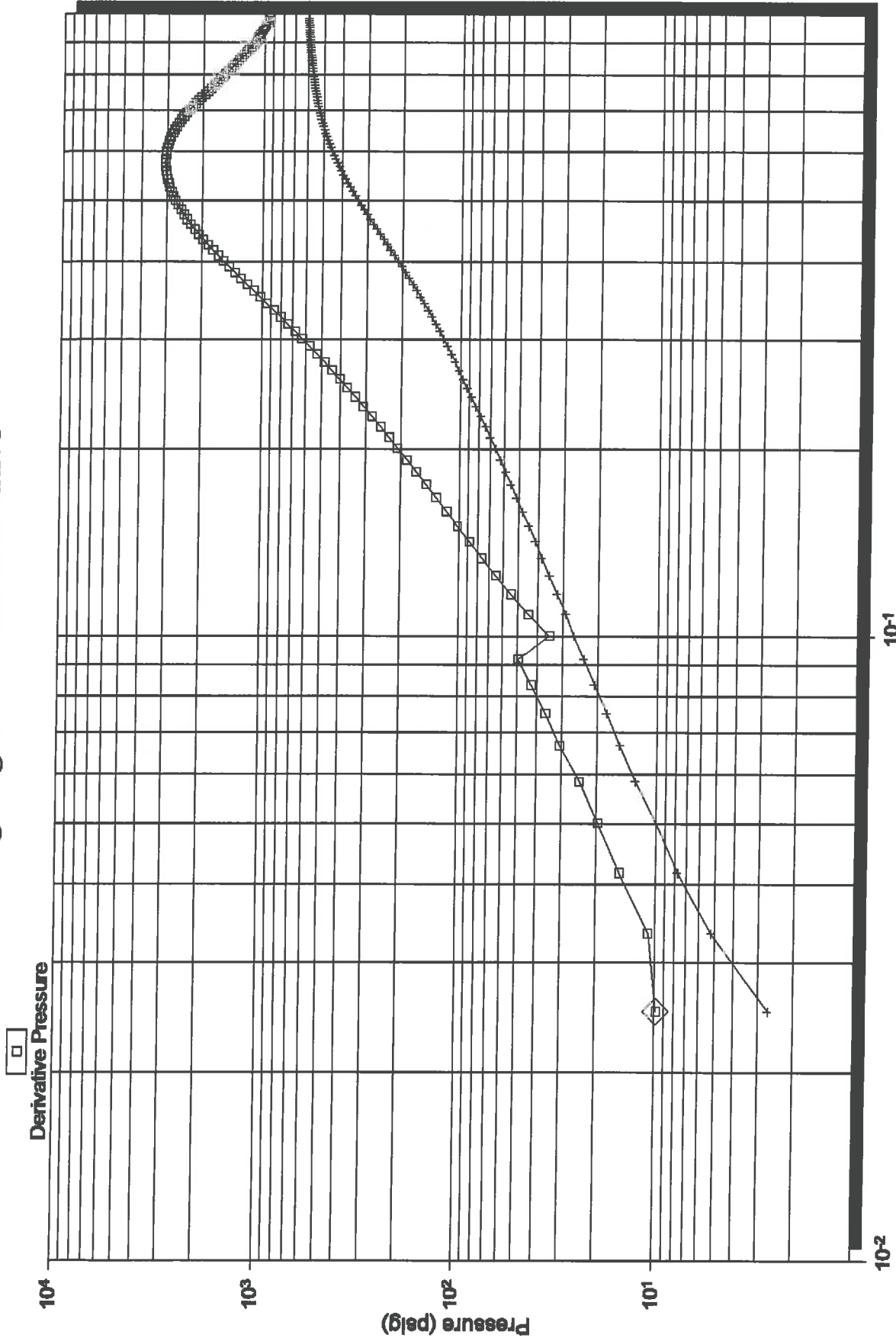
Serial Number: 8700 (Outside)

P* :

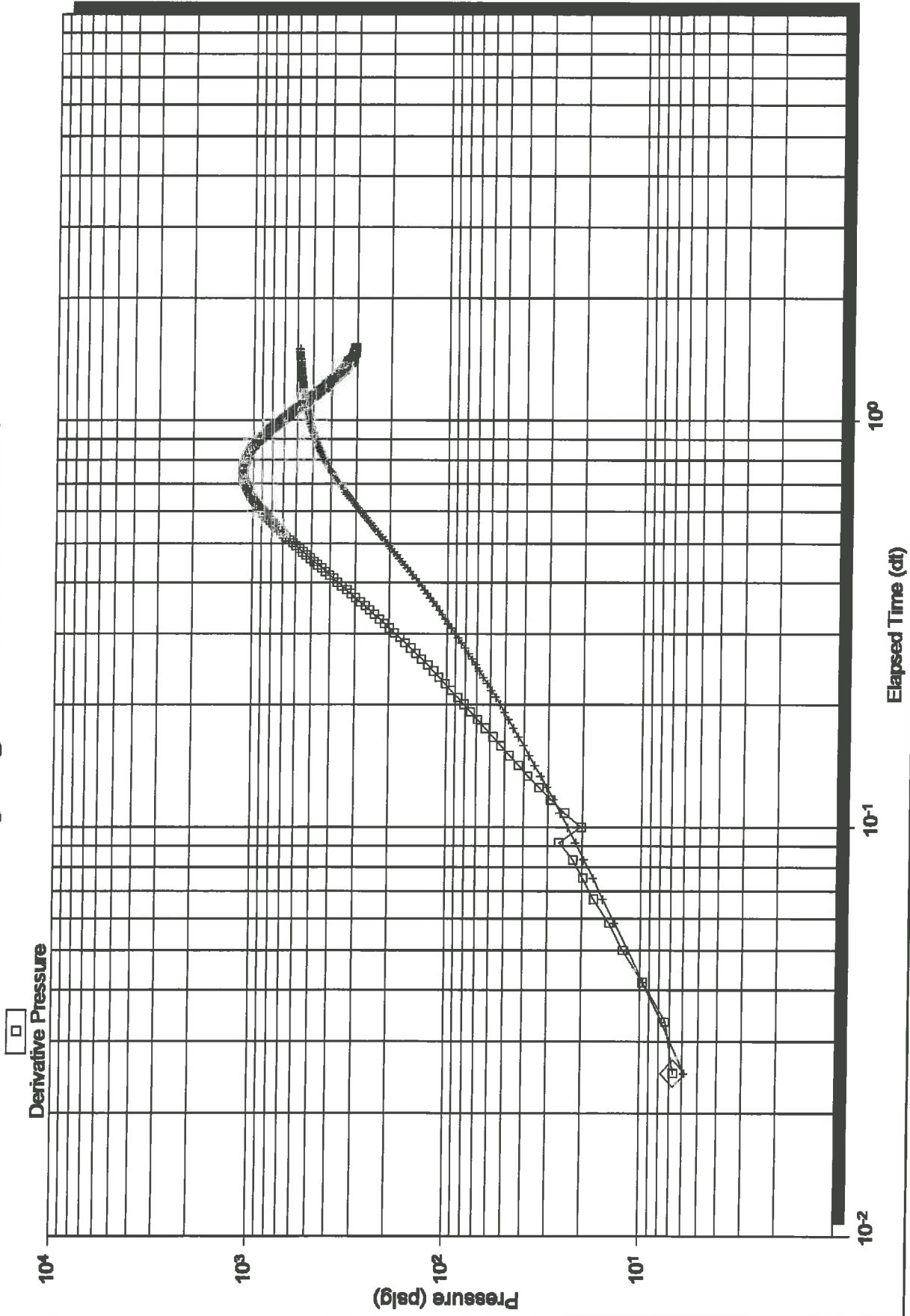
Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





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

Well Name: Wayne Funk # 1-32
Location: Sec. 32- 15S- 15W Russell County. Kansas
License Number: 15-167-23768-0000
Spud Date: 1/16 /2012
Surface Coordinates: 800' FNL & 1860' FWL
Region: Wildcat
Drilling Completed: 1/22/12

Bottom Hole
Coordinates:
Ground Elevation (ft): 1910' K.B. Elevation (ft): 1918'
Logged Interval (ft): 2850' To: 3580' Total Depth (ft): 3580'
Formation: LANSING, ARBUCKLE
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

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Geo: Clayton Camozzi

GEOLOGIST

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Hooker, Okla. 73945
Off: 888-543-8378 Cell: 580 754-0062

DSTs

DST#1 3150'-3214' 5-60-40-120
IF- WK BLW, 1/2" TO 3" BLW, ISI- NO BLW, FF- STRNG BLW IN 4 MIN., FSI- SURF. BLW 1ST 55 MIN THEN DIED
IH- 1485, FH-1467/ IF- 25 TO 36, FF-36 TO 75/ ISI-511, FSI-514
REC. 300' GIP/ 70' TF, 70' HO & GCM 10% GAS, 40% OIL, 50% MUD/ PIT CHLOR. 2300

DSTs

DST#2 3237'-3288' 10-60-30-90
IF- 1/2" BLW, ISI- NO BLW BCK, FF- 5" INST., DYING OFF TO 1" BLW, FSI- NO BLW BCK
IH- 1585, FH-1557/ IF- 33 TO 40, FF- 37 TO 47/ ISI- 640, FSI- 631
REC. 31' GIP/ 40' OF TF, 40' GVSOCM 5% GAS, 5% OIL, 90% MUD, BHT- 88 DEG./ PIT CHLOR. 6500

DSTs

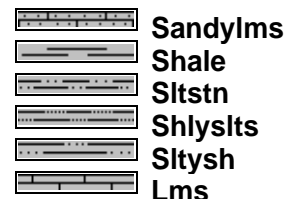
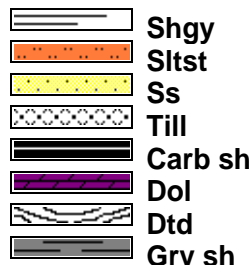
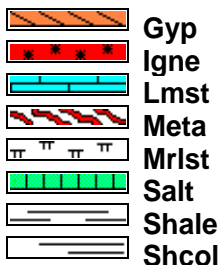
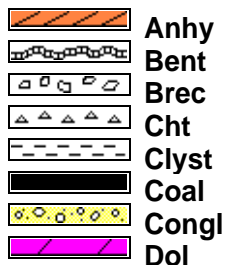
DST#3 3327'-3407' 5-60-30-90

IF- BOB IN 2 MIN., ISI- BOB IN 18 MIN. DIED BACK TO 1" BLW, FF- BOB INST., FSI- BOB IN 8 MIN.

IH-1636, FH- 1600/ IF- 194 TO 997, FF- 191 TO 364/ ISI- 997, FSI- 962

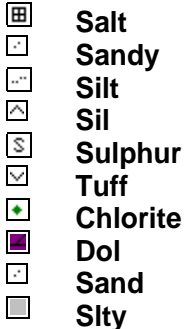
REC. 2201' GTS/ 1023' OF TF, 248' GOCM 40% GAS, 20% OIL, 40% MUD, 310' GO 50% GAS, 50% OIL, 465' GO 60% GAS, 40% OIL, BHT- 91.5 DEG./ GRAV.- 35 API., PIT CHLOR. 7,800

ROCK TYPES

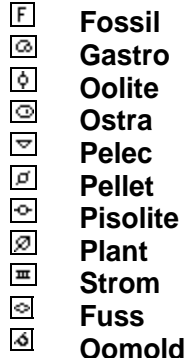
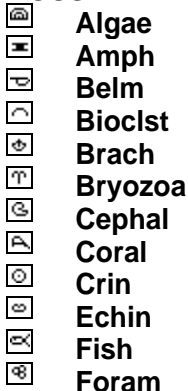


ACCESSORIES

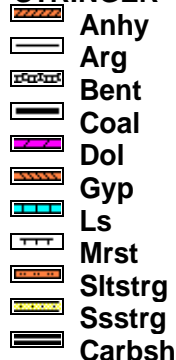
MINERAL



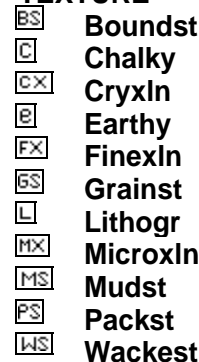
FOSSIL



STRINGER

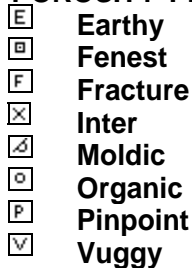


TEXTURE



OTHER SYMBOLS

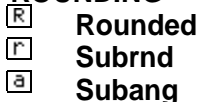
POROSITY TYPE



SORTING



ROUNDING



OIL SHOWS

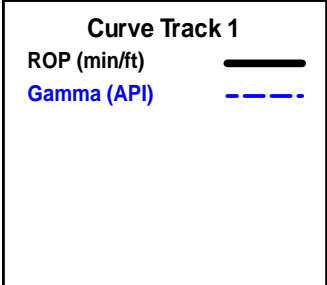


INTERVALS



EVENTS



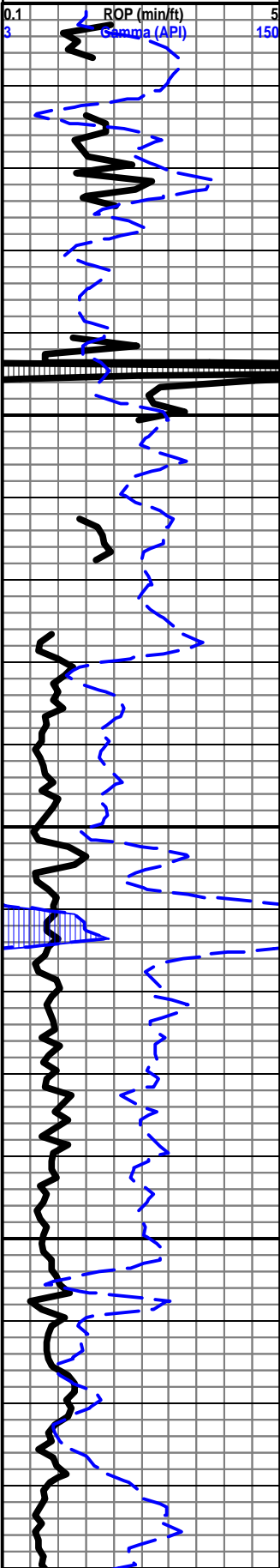
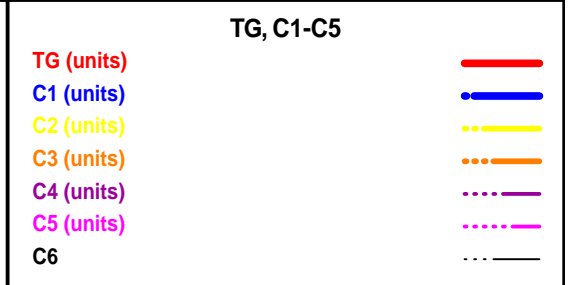


Depth

Lithology

Oil Shows

Geological Descriptions



18

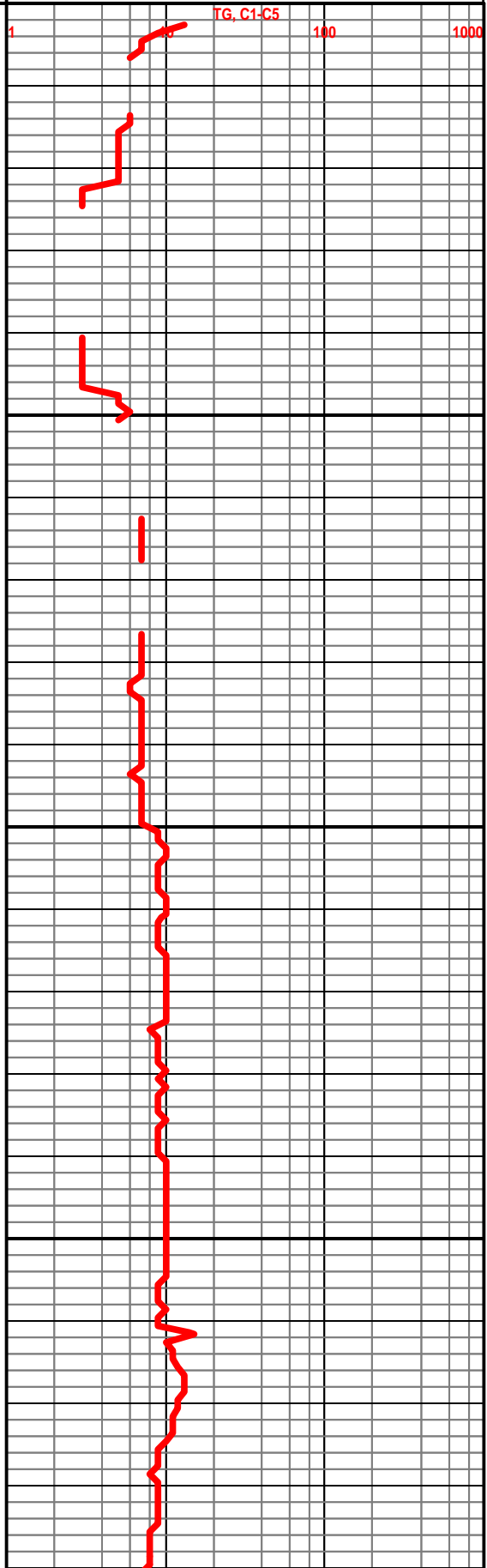
1850

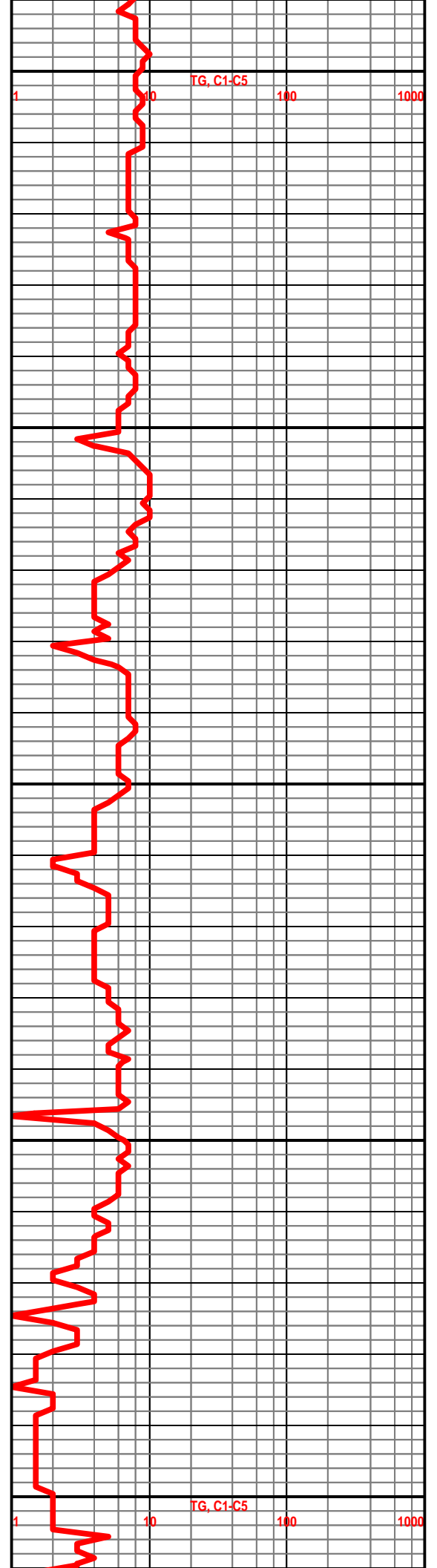
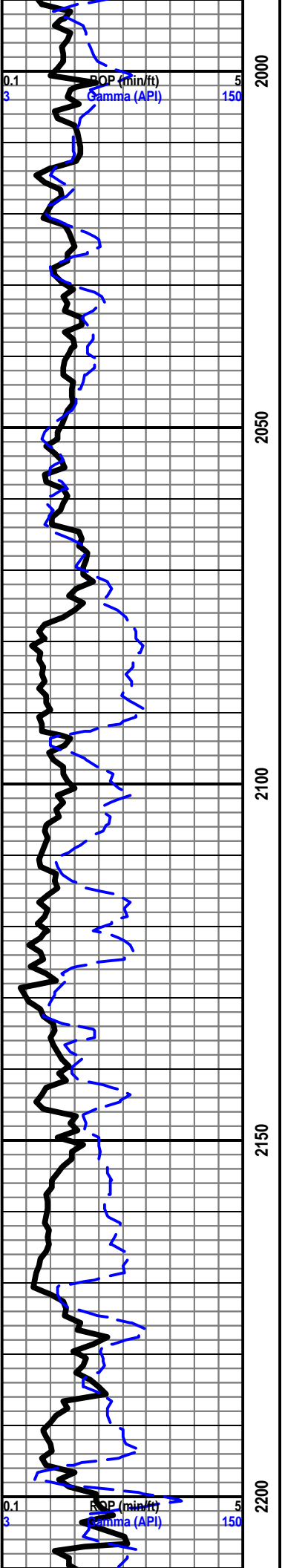
1900

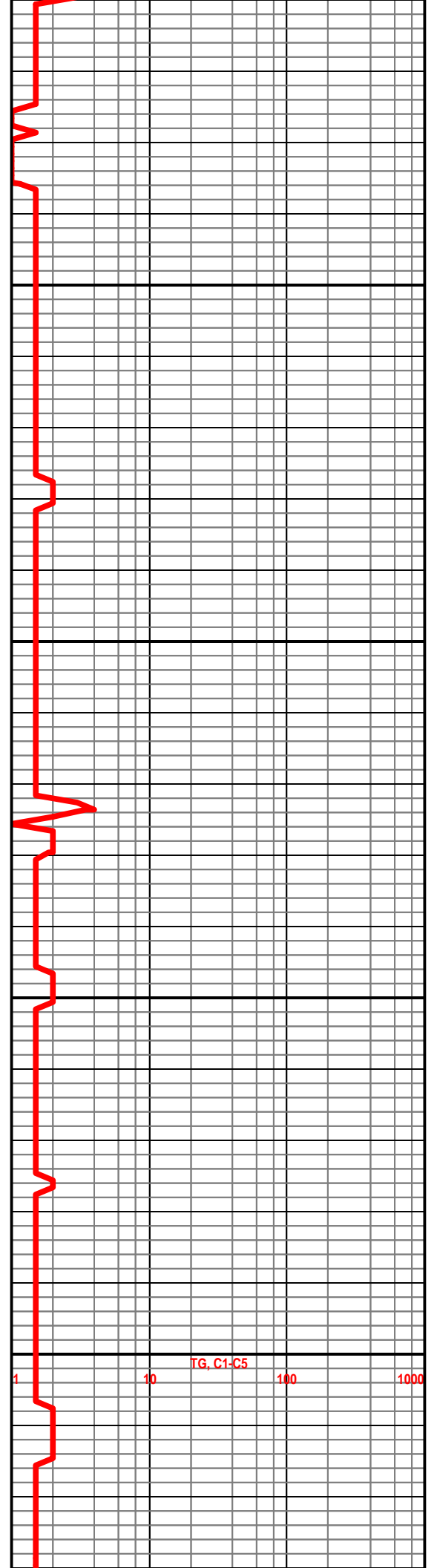
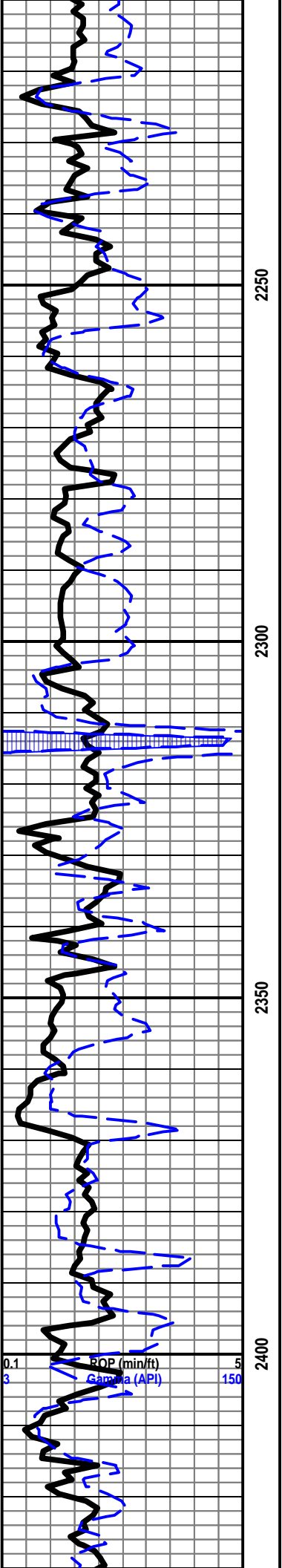
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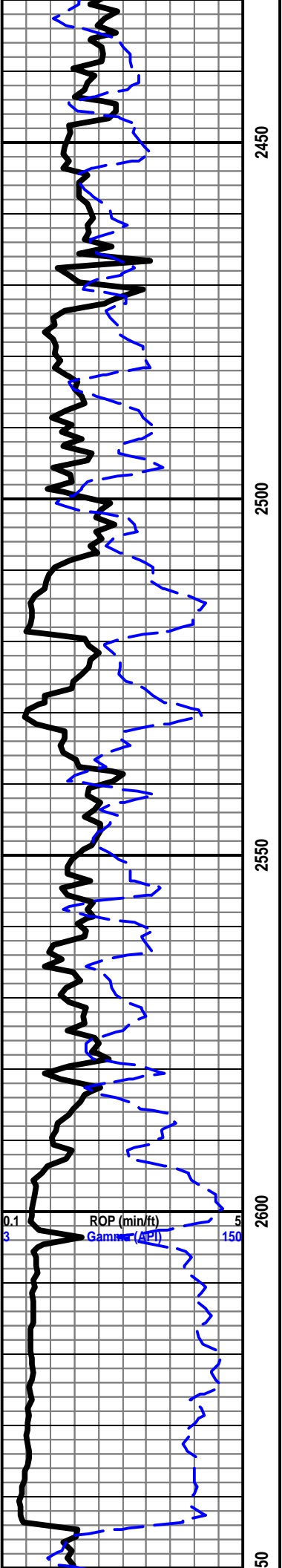
START UNMANNED UNIT 1/18/2012

FOOT MARKED REPAIRED IN DOGHOUSE









2450

2500

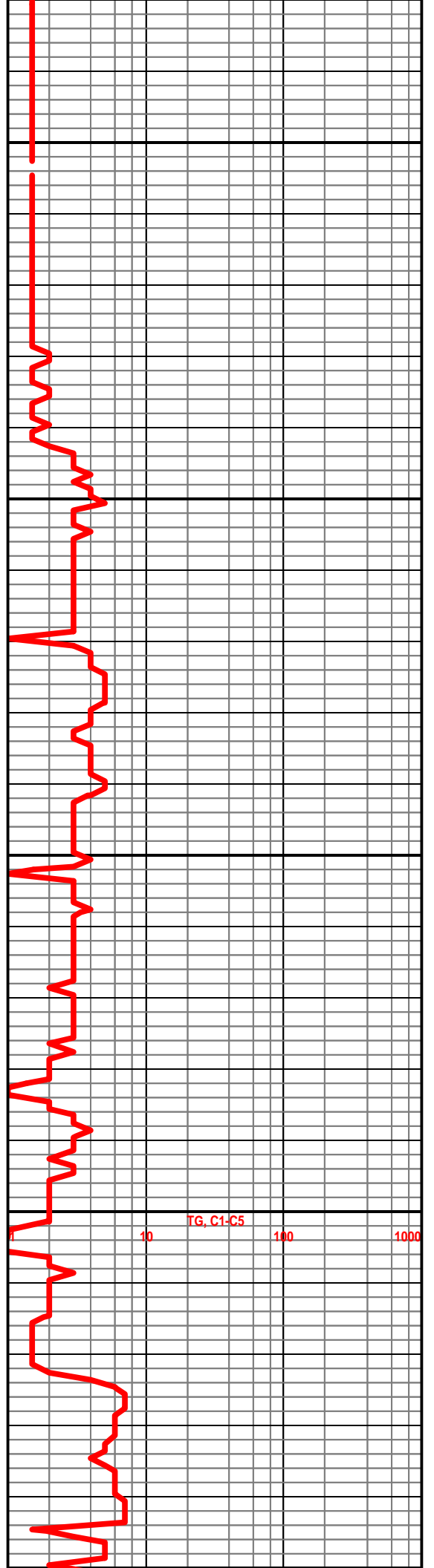
2550

2600

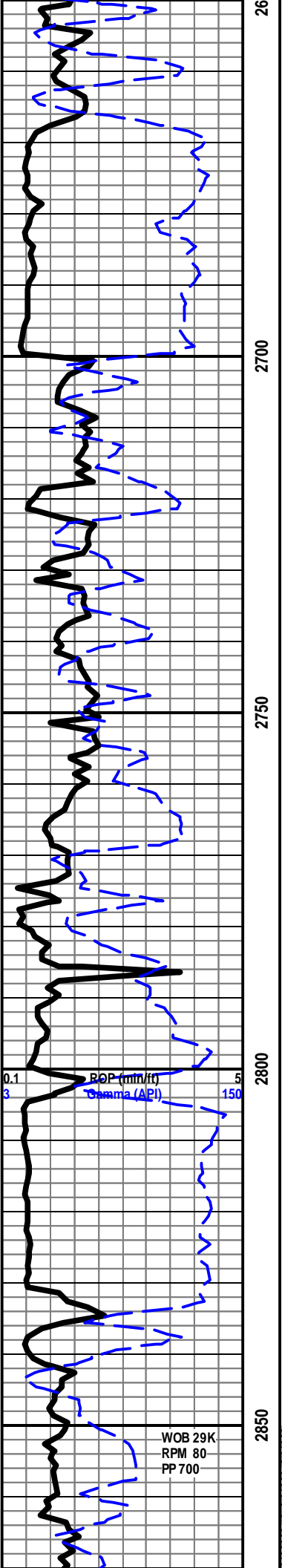
0.1 ROP (min/ft) 5
 1 Gamma (API) 150

50

BRS 2644'-726'



10 TG, C1-C5 100 1000

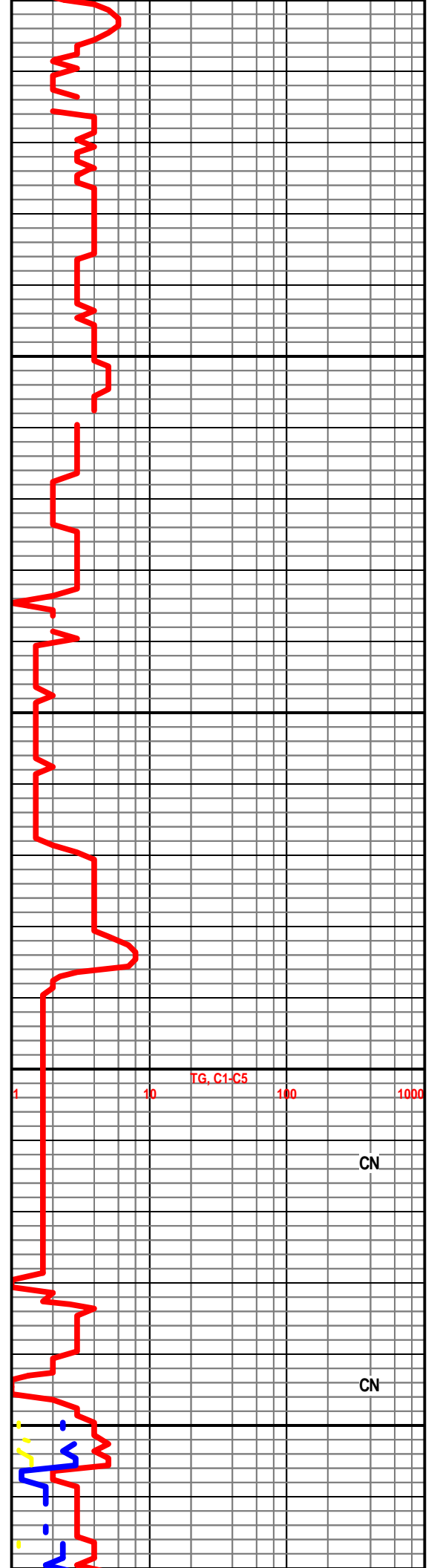


WOB 29K
 RPM 80
 PP 700

HOWARD 2831'-913'

START 24 HR. MANNED UNIT
 1/19/12

SH- LT GY TO GY, GMMY



LS- OFF WHT TO CRM, HD DNS, V/FN-XLN, SH
IMB IP, NO FLO, NO VIS POR, NO VIS SHOW

SEVERY 2889'-971'

SH- LT GY TO GY- SFT TO GMMY TO V/ SLI
SLTY

TOPEKA 2898'-980'

LS- CRM LT TN -HD DNS TO BRITT IP,
F-V/F-XLN W/ ABDT SFT WHT CHLK IP, NO
FLO, NO VIS POR, NO VIS SHOW

SH- LT GRN FRM BLKY SMTH TXT V/ CALC TO
LMY TR SFT CHLK IP

LS- DK TN TO BRN- HD DNS , MD-XLN TO
F-XLN IP, S-CHLKY, NO FLO , NO VIS POR, NO
VIS SHOW

LS- TN TO DK TN, HD DNS, MD-XLN, S-CHLKY
IP, IMB PYR IP, NO FLO, NO VIS POR, NO VIS
SHOW

LS- LT TN TO TN, HD DNS TO BRTT IP,
F-VF-XLN, S-CHLKY IP, NO FLO, NO VIS POR,
NO VIS SHOW

SH- BLK SFT CARB

LS- TN TO GY IP, HD DNS, MD-XLN TO F-XLN,
W/ SLI TR CHLK, SLI TR IMB SH IP, NO FLO,
NO VIS POR, NO VIS SHOW

LE COMPTON 3001'-1083'

LS- OFF WHT TO CRM, HD DNS, VF-XLN, SLI
TR CHLK IP, NO FLO, NO VIS POR , NO VIS
SHOW

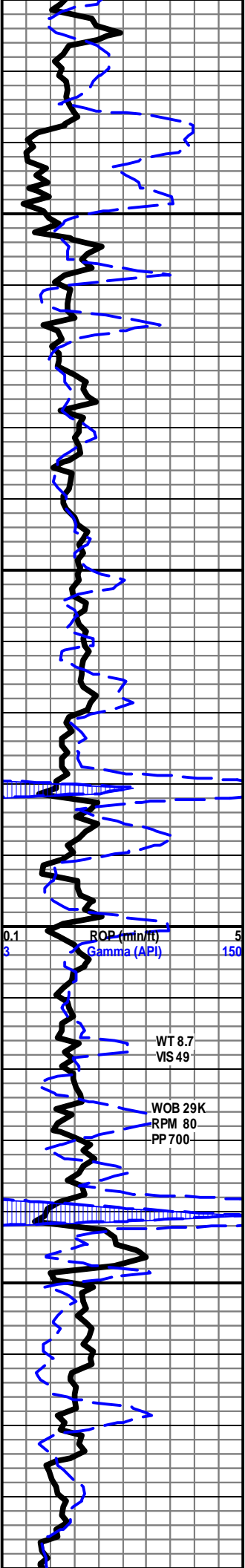
SH- GY TO DRK GY, FRM TO SFT, SMTH

SH- BLK SFT CARB

LS- OFF WHT TO CRM, HD DNS, V/FN-XLN, SLI
TR CHLK IP, CHRT W/ IMB FOSS, NO FLO, NO
VIS POR, NO VIS SHOW

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

3074'-3076' LS- LT GY TO GY (W/ SCAT LV OIL STIN 70%)
HD DNS , F-V/F-XLN, RE-XLN MTRX, S-SUCRO IP, IMBD
FOSS FRGS IP, DLL YEL FLO IN 80%, TR DLL YEL GLD FLO
IP, V/POOR PP POR IP, NO POR IN 90%, GD FLSH CUT IN
100%, GD RICH MILKY BLUE STRM CUT IN 50%, NO
ODOR, DK TN LCH ON DISH



2900

2950

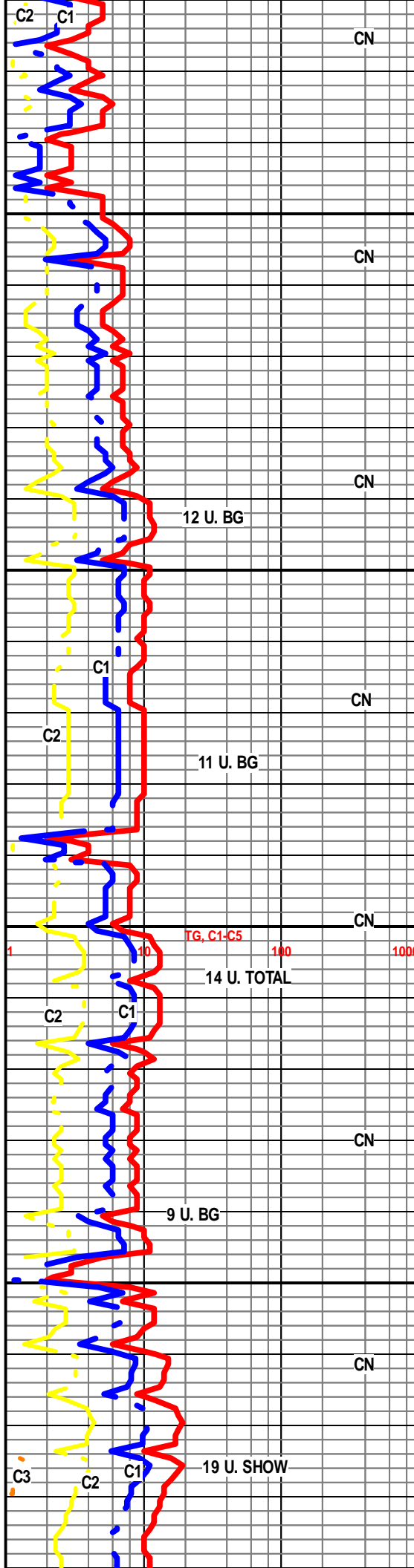
3000

3050

0.1 ROP (min/ft) 5
3 Gamma (API) 150

WT 8.7
VIS 49

WOB 29K
RPM 80
PP 700



CN

CN

CN

12 U. BG

CN

11 U. BG

CN

TG, C1-C5
14 U. TOTAL

CN

9 U. BG

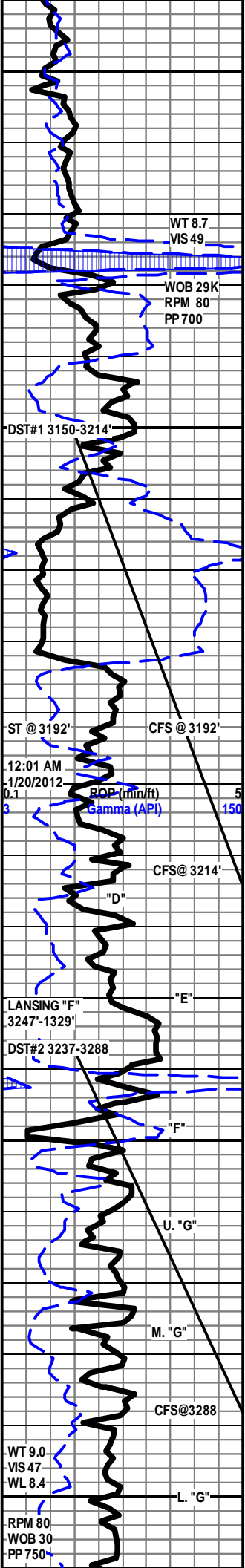
CN

19 U. SHOW

C3

C2

C1



3102'-3104' LS- OFF WHT TO DK TN BRN DUE TO OIL STN SCAT IN 80%, HD DNS ,MD-F-XLN S-SUCRO TO S-CHLKY IP, RE-XLN MTRX, ABDT IMBD FOSS FRGS IP, BRT YEL GLD SPTTD FLO THRU, DLL YEL GLD FLO THRU, TR PR VIS INTR-FOSS POR IP TO NO POR THRU, GD FL SH CUT THRU, GD SLO STRM CUT THRU, FR OIL ODOR, W/ DK TN LCH ON DISH

HEEBNER 3128' - 1209'

SH- BLK SFT CARB

SH- LT GRN, FRM SFT, SMTH

3146'-3148' LS- OFF WHT TO WHT (LT TN STN SCAT IN 70%)- HD DNS TO BRITT, MD-XLN, RE-XLN MTRX, S-CHLKY IP, ABDT IMBD SMLL OOL IP, SMLL CALC XLS IMBD IP, DLL YEL GLD FLO THRU W. TR SPTT BRIT YEL GLD FLO IP, SCAT PR VUG POR IP, SCAT PR MICROVUG POR IN 20%, GD FL SH CUT THRU, GD SLO STRM CUT IN 60%, FR OIL ODOR V/ LT TN LCH ON DISH

DOUGLAS 3158' - 1240'

SH- LT GY TO LT GRN RED - MOTT V/ SFT GMMY TO SLI SLTY IP

LANSING 3183' 1265'

3183'-3185' LS-LT TN TO DK TN DUE TO DK TN OIL STN IN 60%, HD DNS TO BRITT, F-VF-XLN W/ CALC XLS ON ONE FACES OF ROCK, DLL YEL GLD FLO IN 30%, V/ DLL YEL FLO IN 60%, TR SCAT POSS FRACT POR IP, SCAT MICROVUG POR IP, V/ GD FL SH CUT IN 100%, V/ GD SLO STRM MLKY BLU CUT IN 80%, LT OIL ODOR, LT TN LCH ON DISH

LANSING "C" 3202' -1284'

3202'-3206' LS- CRM LT TN TN- LT TN STN SCAT IN 60%, HD DNS IP TO BRITT, MD-XLN TO SUCRO IP, RE-XLN MTRX , TR FOSS FRGS IP, TR S-CHLKY IP, BRIT YEL GLD SPTTD FLO IN 70%, DLL YEL FLO IN 30%, PR TO FR SCAT MICROVUG POR IP, TR GD SCAT VUG POR IP, GD FL SH CUT IN 40%, GD SLO STRM CUT IN 60%, FR OIL ODOR, LT TN LCH ON DISH

3214'-3418' LS- CRM LT TN TO TN , V LT TN STN IN 80% , HD TO BRIT, MD-XLN RE-XLN MTRX, SM TO MD IMB OOL IP, MD IMB ANG LM GRN THRU, SLI S-CHLKY IP, BRT YEL GLD FLO THRU, FR TO GD VIS INTER-XLN POR, SCAT FR VUG POR, GD FL SH CUT THRU, FR TO GD SLW STRM MLKY BL CUT THRU, LT TN LCH ON DSH, GD OIL ODOR

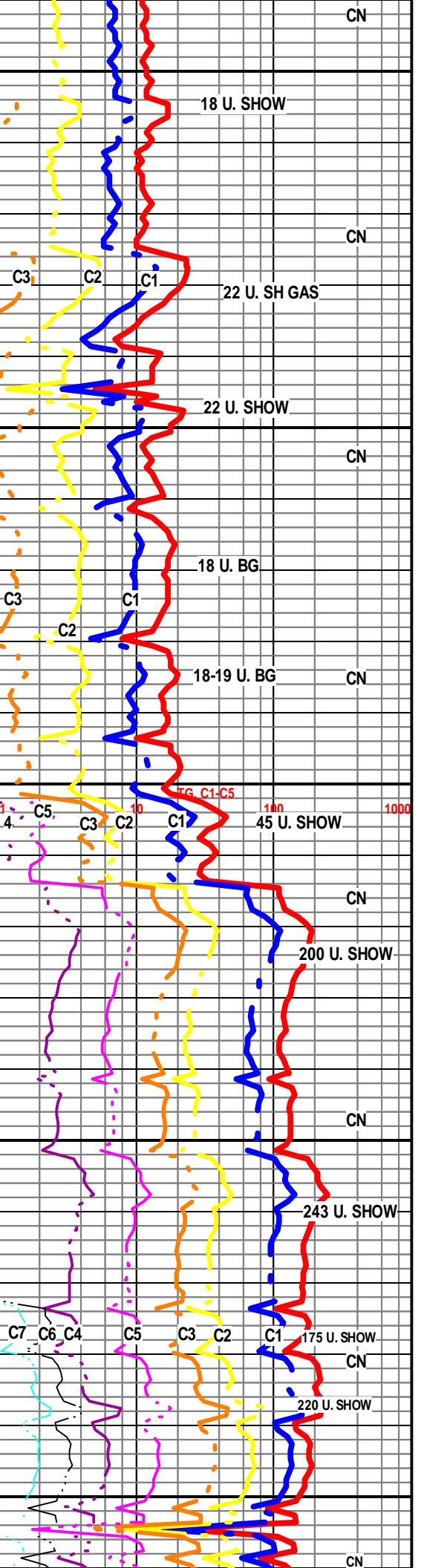
3221'-3225' LS- OFF WHT CRM TN DUE TO STN SCATT THRU IN 70%, MD-XLN IP TO F-XLN IP, V RE-XLN MTRX, SCAT IMB FOSS FRGS IP, TR IMB GY CHRT, S-SUCRO IP, SPTTD BRT YEL GLD FLO IN 40%, PR TO TR FR SCAT MICRO-VUG POR, V GD INST FL SH CUT, EXCEL SLW STRM RCH MLKY BL CUT THRU, DK TN LCH ON DSH FR OIL ODOR

3247'-3251' LS- TN DK TN DUE TO OIL STN IN 90%, HD DNS IP TO V/ BRITT, MD-XLN RE-XLN MTRX, V/ FOSS THRU, S-SUCRO IP, ABDT FOSS FRGS IMBD, SPTTD BRIT YEL GLD FLO THRU, GD INTER-FOSS POR THRU, TO GD SCAT MICRO VUG POR IN 30%, V/ GD FL SH CUT THRU, GD SLO STRM MLKY BLUE CUT THRU, GD ODOR, W/ DK TN LCH ON DISH

3260'-3265' LS- OFF WHT TO WHT HD TO FRM , V/ SUCRO TO SUCRO S-CHLKY IP TO ABDT WHT CHLK NO FLO , NO VIS POR, NO VIS SHOW

3272'-3273' LS- GY TO DK TN, W/ DK TN TAR STN ON ONE FACES, HD DNS, V/ F- CRYTPO-XLN, BRIT YEL GLD FLO ON THE ONE FACES OF THE ROCK, NO VIS POR, GD FL SH CUT AND GD SLO STRM CUT ON ONE FACES, NO LCH ON DISH, NO ODOR

3282'-3284' LS- CRM LT TN TO TN DUE TO STN IN 80%, HD DNS TR BRIT, MD/F-XLN, V/RE-XLN MTRX, ABDT IMB SM OOL, SM CACL-XLS IMB IP, BRT YEL GLD FLO IN 70%, DUL YEL IN 20%, PR VIS INTER-OOL POR TO TR FR SCAT INTER-XLN IN 10% FR TO GD FL SH CUT. FR TO GD SLW



STRM MLKY BL CUT IN 50%, GD OIL ODOR,

LANSING "H" 3316'-1398'

3314'-3316' LS- WHT TO OFF WHT, FRM TO SFT TO V SFT GMMY

3336'-3342' LS- TN TO DK TN DUE TO OIL STN IN 70%, HD DNS TO BRITT, MD-XLN RE-XLN MTRX, S-SUCRO IP, SLI TR CHLK IP, ABDT IMBD OOL THRU, BRIT YEL GLD FLO IN 60%, DLL YEL GLD FLO IN 30%, PR TO FR VIS INT-OOL POR 60%, SCAT FR MICRO VUG POR IN 50%, V/GD FLSH CUT IN PRT, V/GD SLO STRM MLKY BLUE CUT IN 70%, V/GD OIL ODOR, LT TN LCH ON DISH, LV OIL IN SPCKS IN TRAY

LS- OFF WHT WHT- MD TO FRM, V/ SUCRO S-CHLKY TO CHLKY MTRX W/ TR V/ SFT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM- HD DNS V/F-XLN CRYPTO-XLN IP, FRLY NON DESCRIPT, NO FLO, NO VIS POR, NO VIS SHOW

3378' LS- LT TN TN DUE TO OIL STN IN 30%, HD DNS TO TR BRITT, F-V/F-XLN IP TO S-SUCRO IP, ABDT SMLL CALC XLS IMBD ON ONE FACES, DLL YEL FLO THRU, TR BRIT BRIT YEL GLD FLO IP, POSS FRACT POR, TR SCAT VUG POR IN 30%, PR FLSH CUT TO PR TO FR, SLO STRM CUT IN 20%, NO LCH ON DISH

3392'-3394' LS- TN DK TN- HD DNS TO BRITT, MD-F-XLN RE-XLN MTRX, SCAT IMBD SMLL ANG LM GRNS IP, SUCRO TXT IP, BRIT YEL GLD FLO IN 80%, DLL YEL GLS FLO IN 20%, PR TO FR VIS INTER-XLN POR, SCAT FR VIS MICROVUG POR IN 30%, FR FLSH CUT THRU, FR SLW STRM CUT IN 70%, LT OIL ODOR, V/ LT TN LCH ON DISH

BKC 3407'-1489'

SH- RD GY TO GRN MOTT, FRM BLKY SMTH TXT

CONG- ABDT MOTT LS SH MOTT CHRT

SH- RD SFT GMMY W/ ABDT CHRT

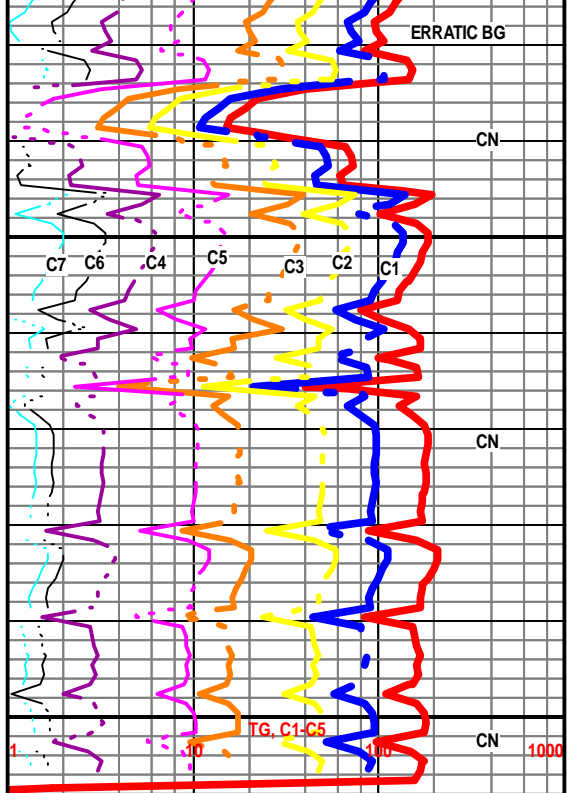
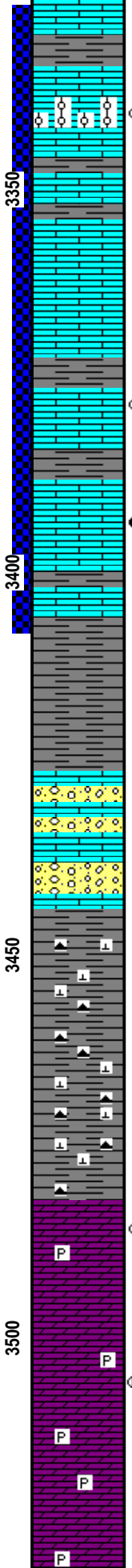
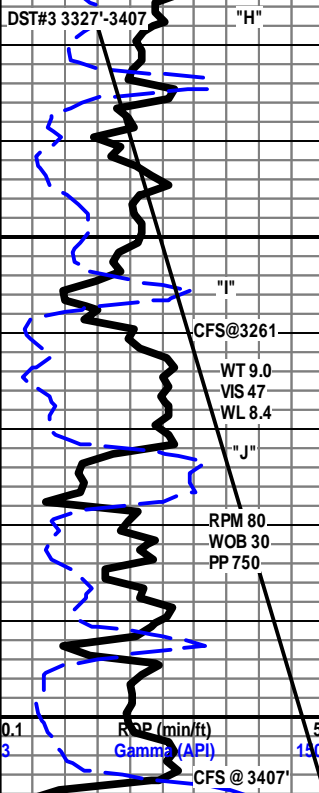
SH- RD SFT GMMY W/ ABDT IMB WHT MOTT CHRT, IMB LS, F-XLN, CHLK

ARBUCKLE 3481'-1563'

DOLO- OFF WHT LT TN TO TN DUE TO TN STN IP, HD DNS V/BRTT IP, V-SUCRO MTRX TO F-XLN IP, V DUL YEL FLO IN 50%, BRT YEL GLD FLO IN 20%, NO VIS POR, TR IMB PYR, PR TO FR VIS FLSH CUT IN 20%, FR SLW STRM CUT IN 20%, NO ODOR,

DOLO- OFF WHT LT TN TO TN DUE TO TN STN IP, HD DNS V/BRTT IP, V-SUCRO MTRX TO F-XLN IP, V DUL YEL FLO IN 50%, BRT YEL GLD FLO IN 20%, TR PR VUG POR, TR IMB PYR, PR TO FR FLSH CUT IN 10%, SLW STRM CUT IN 50%, NO ODOR,

DOLO- OFF WHT LT TN TO TN DUE TO TN STN IP, HD DNS TO BRITT IP, V-SUCRO MTRX TO



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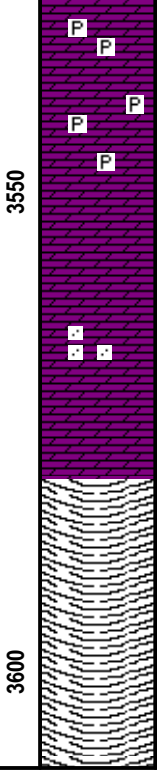
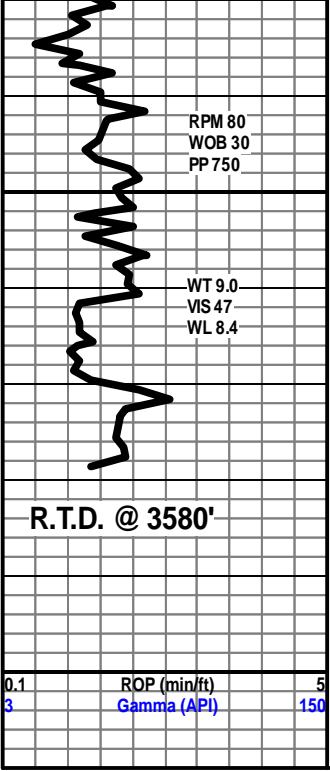
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F-XLN IP RE-XLN MTRX IP, IMB FOSS FRAG, DISS PR, V DUL YEL FLO IN 50%, BRT YEL GLD FLO IN 20%, TR PR VUG POR, , PR TO FR FLSSH CUT IN 10%, SLW STRM CUT IN 50%, NO ODOR,

DOLO- OFF WHT TO CRM, HD DNS TO BRIT, MD-XLN RE-XLN MTRX, SUCRO W/ TR SPTT CHLK, ABDT IMB SM RND TO S-RND DOLO GRNS, NO FLO, PR VIS VUG POR, NO VIS SHOW OR CUT

DOLO- WHT TO OFF WHT, HD DNS TO BRIT, MD-XLN RE-XLN SUCRO MTRX W/ SLI TR CHLK, TR SM TO MD RND TO S-RND QRTZ GRNS, ABDT MD TO LG WELL RND QRTZ GRNS, NO FLO, PR TO FR INTER-XLN POR, NO VIS SHOW OR CUT

R.T.D. @ 2:45 P.M. 1/22/12

CFS 1 HR. 30 MIN.
CTCH 1 HR. 30 MIN.
TRIP OUT F/LOGS @ 4:30
WEATHERFORD/LIBERAL

R.T.D. @ 3580'			
SAMPLE LOGS WILL BE DELIVERED TO KGS			
TIM HEDRICK			
1	10	TG, C1-C5	100 1000