

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

8/20/12

Operator: License # 3882
Name: SAMUEL GARY JR. & ASSOCIATES, INC.
Address: 1560 BROADWAY, SUITE 2100
City/State/Zip: DENVER, CO 80202-4838
Purchaser: GARY-WILLIAMS ENERGY CORPORATION
Operator Contact Person: THOMAS G. FERTAL
Phone: (303) 831-4673 **KCC**
Contractor: Name: SOUTHWIND **AUG 20 2010**
License: 33350
Wellsite Geologist: TIM HEDRICK **CONFIDENTIAL**

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>04/27/10</u>	<u>05/05/10</u>	
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-25972-0000
County: ELLIS
SW NE SW NE Sec. 34 Twp. 15 S. R. 17 East West
1690 feet from NORTH Line of Section
1780 feet from EAST Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) **(NE)** SE NW SW
Lease Name: JACOBS Well #: 1-34

Field Name: WILDCAT
Producing Formation: _____

Elevation: Ground: 1891' Kelly Bushing: 1901'
Total Depth: 3598' Plug Back Total Depth: 3480'

Amount of Surface Pipe Set and Cemented at 1078 Feet
Multiple State 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 No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South Market-Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

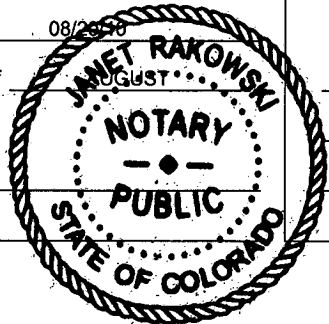
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Thomas G. Fertal

Title: SR. GEOLOGIST Date: 08/20/12

Subscribed and sworn to before me this 20TH day of 2010

Notary Public: Janet Rakowski
Date Commission Expires: 06/05/2013



KCC Office Use ONLY
 Letter of Confidentiality Attached 8/20/10 - 8/20/12
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
UIC Distribution
Alt 1-Dlg - 8/26/10

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AUG 20 2010

Operator Name: SAMUEL GARY JR. & ASSOCIATES, INC. Lease Name: JACOBS Well #: 1-34
 Sec. 34 Twp. 1 S. R. 17 East West County: RUSH **CONFIDENTIAL**

INSTRUCTIONS: Show important tops and base of formation penetrated. Detail all cores. Report all final copes of drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geologist well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Sample Sent to Geological Survey	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	TOPEKA	2930'	-1029'
Electric Log Run (Submit Copy)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	HEEBNER	3155'	-1254'
			DOUGLAS	3189'	-1288'
			LANSING	3204'	-1303'
			ARBUCKLE	3493'	-1592'
			TD	3598'	
List All E. Logs Run:	DUAL INDUCTION DENSITY - NEUTRON SONIC LOG MICROLOG				

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
CONDUCTOR	17-1/2"	13-3/8"	48	93'	CLASS A	100	2% GEL & 3% CC
SURFACE	12-1/4"	8-5/8"	24	1078'	CLASS A	400	2% GEL & 3% CC

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

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

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

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Disposition of Gas	METHOD OF COMPLETION			Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold If vented, submit ACO-18.)	<input type="checkbox"/> Used on Lease	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf.	<input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	_____
<input type="checkbox"/> Other (Specify) _____			_____	



SAMUEL GARY JR.
& ASSOCIATES, INC.
an integrated energy company

KCC
AUG 20 2010
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August 20, 2010

Mr. Dave Williams
Kansas Corporation Commission
130 South Market, Room - 2078
Wichita, KS 67202

Re: Jacobs 1-34
Ellis County, Kansas
API# 15-051-25972-0000

Dear Dave,

Attached please find the ACO-1, Well History Description of Well and Lease, along with Geologist Report, DST's, Electric Logs, approved CP-4 and all cementing tickets for the subject Well.

We hereby request that this ACO-1, and all data included, along with the drill cuttings sent to the Kansas Geological Survey, be held **CONFIDENTIAL FOR 2 YEARS**.

If there are any questions, or if you need any additional information, please contact me at Samuel Gary Jr. & Associates, Inc. 303-831-4673.

Sincerely,

SAMUEL GARY JR. & ASSOCIATES, INC.

Thomas G. Fertal
Sr. Geologist

Enclosures

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QUALITY OILWELL CEMENTING, INC.

740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net
 Pratt Location 620-388-5422

Date: 5/8/2010
 Invoice # 3872

P.O.#:
 Due Date: 5/23/2010
 Division: Russell

Invoice

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AUG 20 2010
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Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 P.O. BOX 448
 RUSSELL KS 67665

Reference:
 PLUG JOB JACOBS 1-34

Description of Work:

Services / Items Included:	Item	Quantity	Item	Quantity
Pump Truck Mileage-from Job location to Nearest Camp		22		
Premium Gel (Bentonite)		7		
POZ Mix-Standard		75		
Plugging, the First Well Service		1		
Flo Seal		50		
Dry Hole Plug		1		
Common-Class A		110		
Bulk Truck Mileage-from Job location to Nearest Bulk Plant		22		
Bulk Truck Material-Material Service Charge		192		

Quoted by: Dave Funk
 SubTotal: \$ 4,007.59
 Discount Available *ONLY* if Invoice is Paid &
 Received within listed terms of invoice: \$ (601.14)
 Total: \$ 3,406.45
 Tax: \$ 78.42
 \$ 3,484.87

Invoice Terms:

Net 30

Applied Payments:
 Balance Due: \$ 3,484.87

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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MAY 17 2010

SAMUEL GARY JR.
 & ASSOCIATES, INC.

KCC WICHITA

DRLG COMP W/O LOE
 AFE # _____
 ACCT # 8200-138
 APPROVED BY [Signature]

QUALITY OILWELL CEMENTING, INC.

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

Home Office P.O. Box 1322 Russell, KS 67665

No. 3872

Date	Sec.	Twp.	Range	County	State	On Location:	Finish
5-5-10	34	15	17	Ellis	Kansas		2:00AM

Lease Jacobs Well No. 1-34 Location Pfeifer 136 Sink

Contractor Southern Drilling Rig Owner

Type Job Day Hole Plug To Quality Oilwell Cementing, Inc.
Hole Size 7 7/8 T.D. You are hereby requested to rent cementing equipment and furnish
Csg. Depth cementer and helper to assist owner or contractor to do work as listed.

Tbg. Size Depth Charge To Samuel Gary Jr. & Associates, Inc

Tool Depth Street City State

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

Meas Line Displace Cement Amount Ordered 185 60/40 4% Gel

EQUIPMENT

Pumptrk	No.	Cementor		1/2 lb Flo Seal per sack
		Helper		Common 110
Bulktrk	No.	Driver		Poz. Mix 75
		Driver		Gel. 7
Bulktrk	No.	Driver		
		Driver		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal <u>2x or 50lbs</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st Plug @ 3480 25sx	Sand
2nd " " 1115 25sx	Handling
3rd " " 400 20sx	Mileage <u>27</u>
4th " " 40 10sx	FLOAT EQUIPMENT
Rat Hole 30sx	Guide Shoe
Mouse Hole 15sx	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Quality Oilwell

Cementing

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Signature Frank Rano

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	



QUALITY OILWELL CEMENTING, INC.

740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruratel.net
 Pratt Location 620-388-5422

Date: 4/29/2010
 Invoice # 3863

P.O.#:
 Due Date: 5/14/2010
 Division: Russell

Invoice

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Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 P.O. BOX 448
 RUSSELL KS 67665

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

Reference:
 CONDUCTOR SURFACE JACOBS 1-34

Description of Work:

Services / Items Included:	Item	Quantity	Item	Quantity
	Surface Job	1		
	Pump Truck Mileage-from Job location to Nearest Camp	22		
	Premium Gel (Bentonite)	2		
	Common-Class A	100		
	Calcium Chloride	3		
	bulk Truck Mileage-from Job location to Nearest Bulk Plant	22		
	Bulk Truck Material-Material Service Charge	105		

Quoted by: Dave Funk
 SubTotal: \$ 2,608.08
 Discount Available ONLY if Invoice is Paid &
 Received within listed terms of invoice: \$ (391.21)
 Total: \$ 2,216.87
 Tax: \$ 48.87
 \$ 2,265.74

Invoice Terms:
 Net 15

Applied Payments:
 Balance Due: \$ 2,265.74

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DRLG COMP W/O LOE

AFE #

ACCT #

APPROVED BY

8200-138
 PB

QUALITY OILWELL CEMENTING, INC.

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

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

No. 3863

Date	4-27-10	Sec.	34	Twp.	15	Range	17	County	Ellis	State	Kansas	On-Location	(Russell)	Finish	6:30 PM
Lease	Jacobs	Well No.	1-34		Location		Pleater 1 1/2 Sibs								
Contractor	Southwind Drilling Rig 1							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	16 1/4		T.D.		95		Charge To								
Csg.	13 3/8 48lb		Depth		92		To Samuel Gary Sr. & Associates								
Tbg. Size			Depth				Street								
Tool			Depth				City								
Cement Left in Csg.	10-15'		Shoe Joint				State								
Meas Line			Displace				The above was done to satisfaction and supervision of owner agent or contractor.								
							Cement Amount Ordered								
							100 Com Fall 2010								

EQUIPMENT

Pumptrk	9	No.	Cementer	Steve	2 1/2	Common	100	
			Helper					
Bulktrk	8	No.	Driver	Wente	2 1/2	Poz. Mix		
			Driver					
Bulktrk		No.	Driver	Cisco	2 1/2	Gel.	2	
			Driver					
JOB SERVICES & REMARKS							Calcium	3

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Remarks:	
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
	Cement did Circulate
	Sand
	Handling 105
	Mileage 217

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

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Signature *Frank Rome*

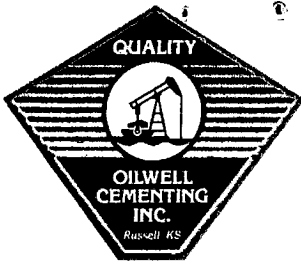
Surface

Pumptrk Charge Conductor Surface

Mileage 22

Russell

Tax	
Discount	
Total Charge	



QUALITY OILWELL CEMENTING, INC.

740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE: 785-324-1041 FAX: 785-483-1087
 EMAIL: cementing@ruraltel.net
 PRATT LOCATION 620-388-5422

Date: 4/30/2010
 Invoice # 3823

P.O.#:
 Due Date: 5/15/2010
 Division: Russell

Invoice

Contact:

Samuel Gary Jr & Associates Inc
 Address/Job Location:
 Samuel Gary Jr & Associates Inc
 P.O. BOX 448
 RUSSELL KS 67665

Reference:

LONG SURFACE JACOBS 1-34

Description of Work:

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 & ASSOCIATES, INC.

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Services / Items Included:

Item	Quantity
Surface Job	1
Pump Truck Mileage-from Job location to Nearest Camp	22
Premium Gel (Bentonite)	8
Flo Seal	100
Common-Class A	425
Calcium Chloride	15
bulk Truck Mileage-from Job location to Nearest Bulk Plant	22
Baffle Plate Aluminum, 8 5/8"	1
8 5/8" Top Rubber Plug	1

Item	Quantity
8 5/8" Centralizer	3
8 5/8" Basket	3

Invoice Terms:

Net 30

Quoted by: Dave Funk

SubTotal: \$ 8,813.51

Discount Available ONLY if Invoice is Paid &
 Received within listed terms of invoice: \$ (1,322.03)

Total: \$ 7,491.49

Tax: \$ 39.59

\$ 7,531.07

Applied Payments:

Balance Due: \$ 7,531.07

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DRLG COMP W/O LOE

AFE #

ACCT #

APPROVED BY

KCC WICHITA

8200-136
 [Signature]

QUALITY OILWELL CEMENTING, INC.

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

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

No. 3823

Date	4-29-2010	Sec.	34	Twp.	15	Range	17	County	Ellis	State	KS	On Location		Finish	5:45 AM
------	-----------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Lease Jacobs Well No. 1-34 Location Pfeifer, K's Cemetery 1/4 W, S/5

Contractor Southwind Drilling Rig #1 Owner To Quality Oilwell Cementing, Inc.

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

Hole Size 12 1/4" ~~12 1/2"~~ T.D. 1066' Charge To Sam Gary Jr.

Csg. 8 5/8" 24# New Depth 1064'

Tbg. Size _____ Depth _____ Street _____

Tool _____ Depth _____ City _____ State _____

Cement Left in Csg. 37.00 Shoe Joint 37.00 The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line _____ Displace 65.41 BBls Cement Amount Ordered 425 5x Common 3% CC

EQUIPMENT

Pumptrk 1 No. 1 Cementer Brandon 30T 2% Gel. 1/4 # F.S. Common 425

Bulktrk 12 No. 12 Driver Rocky 30T 3 Poz. Mix

Bulktrk pickup No. 1 Driver Rick 3 1/2 8 Gel.

JOB SERVICES & REMARKS

Remarks: _____ Hulls _____ **KCC**

Rat Hole _____ Salt _____ **AUG 20 2010**

Mouse Hole _____ Flowseal 100# **CONFIDENTIAL**

Centralizers _____ Kol-Seal _____

Baskets _____ Mud CLR 48 _____

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

Sand _____ Handling 448 _____

Mileage 22 _____

FLOAT EQUIPMENT

Guide Shoe _____

Centralizer 3 turbo cent's _____ **RECEIVED**

Baskets 3 _____ **AUG 23 2010**

AFU/Inserts _____ **KCC WICHITA**

Float Shoe _____

Latch Down _____

1-8 5/8" Baffle plate

1-8 5/8" Rubber plug

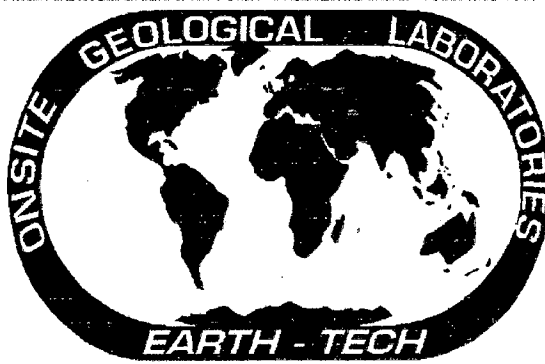
Pumptrk Charge Long Surface

Mileage 22

Signature _____

Russell

Tax _____
Discount _____
Total Charge _____



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

Well Name: JACOBS 1-34
Location: Sec 34 15s 17w, Ellis, Ks
License Number: 15-051-25972-0000
Spud Date: 4/27/10
Surface Coordinates: 1690 fnl & 1780 fel

Region: Wildcat
Drilling Completed: 5/05/10

Bottom Hole
Coordinates:
Ground Elevation (ft): 1891' K.B. Elevation (ft): 1901'
Logged Interval (ft): 2800' To: 3600' Total Depth (ft): 3600'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

OPERATOR

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

GEOLOGIST

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

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AUG 2 0 2010
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DST's Report

DST#1 2910'-2945' 15-60-30-90
IF- BOB IN 6 MIN., ISI- NO BLOW
IF- BOB IN 3 SEC., FSI- NO BLOW
IH- 1409', FH- 1360'
IF-20-24, FF-35-41
ISI 876, FSI 857
RECOVERED 1825' GIP, 80' GOCWM, 20% G, 23% O., 57% W.,
BHT 96 DEG. CHL 4200 P.P.M

DST#2 3216'-3263' 20-60-30-60
IF-WK I", ISI- NO BLOW, FF- 1.5", FSI- NO BLOW,
IH- 1553, FH- 1500, IF- 20-21, FF- 19-24, ISI- 610, FSI- 891
RECOVERED - 50' GIP, 15' OF GOCM, BHT 102 DEG.




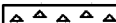


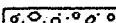





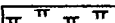

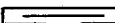
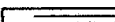
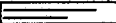





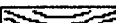




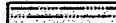


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DST's Report























































































DST#3 3257'-3289' 20-60-45-120
 IF-WK 1/2"-2 1/2", ISI- NO BLOW, FF- BOB 21 MIN., FSI- WK BLOW
 IH-1573, FH-1555, IF-17-17, FF-19-26, ISI-1025, FSI-1015
 RECOVERED-335' GIP, 35' W&MCO, 38% O., 26%W., 36%M., BHT 101 DEG. CHL- 8000 P.P.M

DST#4 3491'-3505' 20-60-60-180
 IF- F BLOW, SLOW INC. 6", ISI- NO BLOW, FF- BOB 49 MIN., FSI- NO BLOW
 IH-1722, FH-1694, IF-20-45, FF-48-111, ISI-1189, FSI-1190
 RECOVERED- 20' CLEAN O., 62' MW W/ O. SPECS 91% W. 9%M., 125' SW, CHL 48,000 P.P.M, GR 33.3 @ 55 DEG.
 BHT 111 DEG.

ROCK TYPES

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

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau  Gyp  Hvymn  Kaol  Marl  Minxl  Nodule  Phos  Pyr	 Salt  Sandy  Silt  Sil  Sulphur  Tuff  Chlorite  Dol  Sand  Sity FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram	 Fossil  Gastro  Oolite  Ostra  Pelec  Pellet  Pisolite  Plant  Strom  Fuss  Oomold STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst  Sltstrg  Ssstrg  Carbsh	 Clystn  Dol  Grysh  Gryslt  Lms  Sandyims  Sh  Sltstn TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- F Fenest
- F Fracture
- X Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- F Subrnd
- a Subang

- A Angular

OIL SHOWS

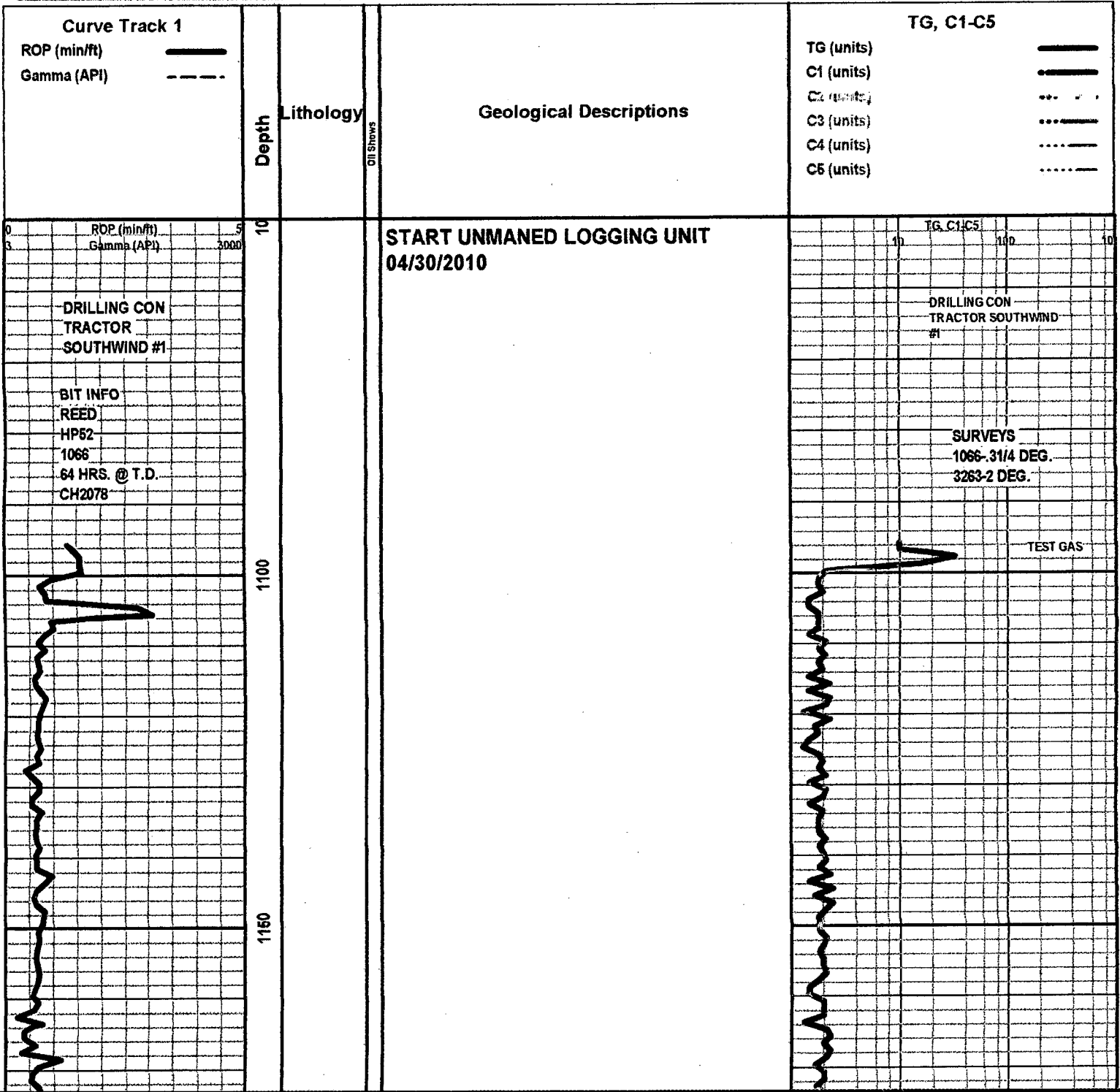
- E Even
- S Spotted
- Q Ques
- D Dead
- X Gas show

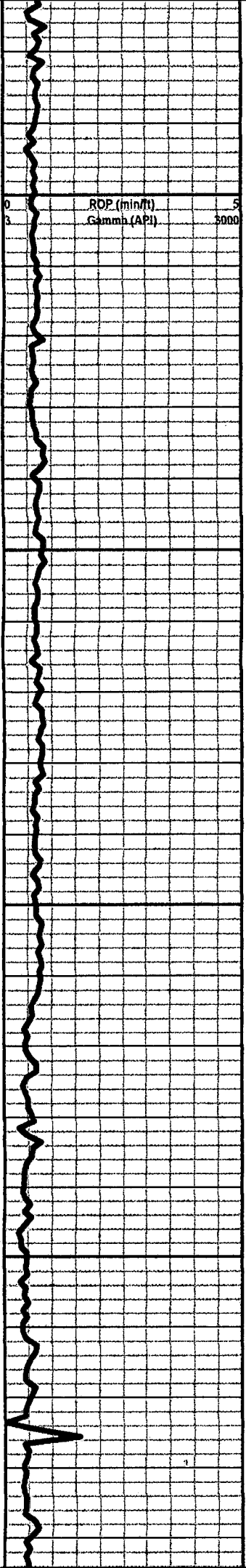
INTERVALS

- C Core
- D Dst
- H Dst

EVENTS

- R Rft
- S Sidewall



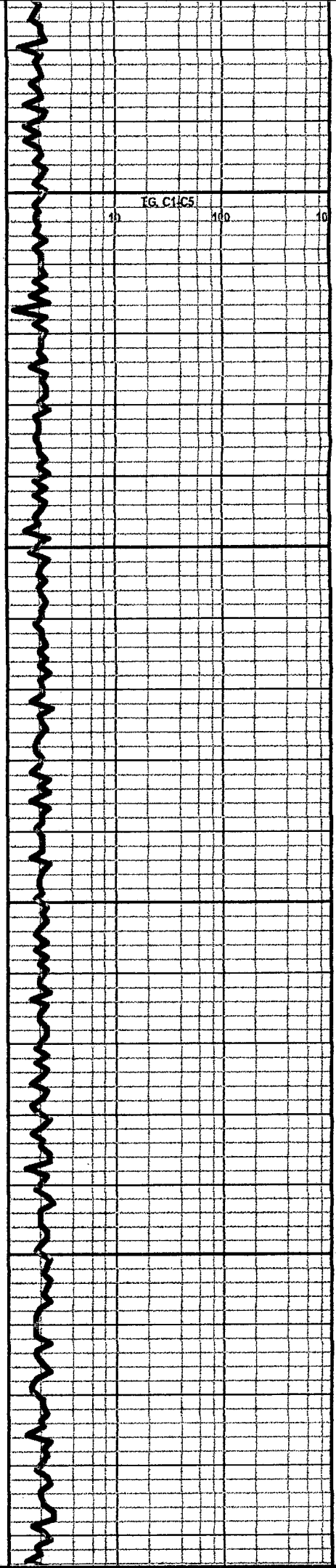


1200

1250

1300

1350



IG, C14C5

10

100

10

ROP (min/ft) 5
Gamma (API) 3000

1400

1450

1500

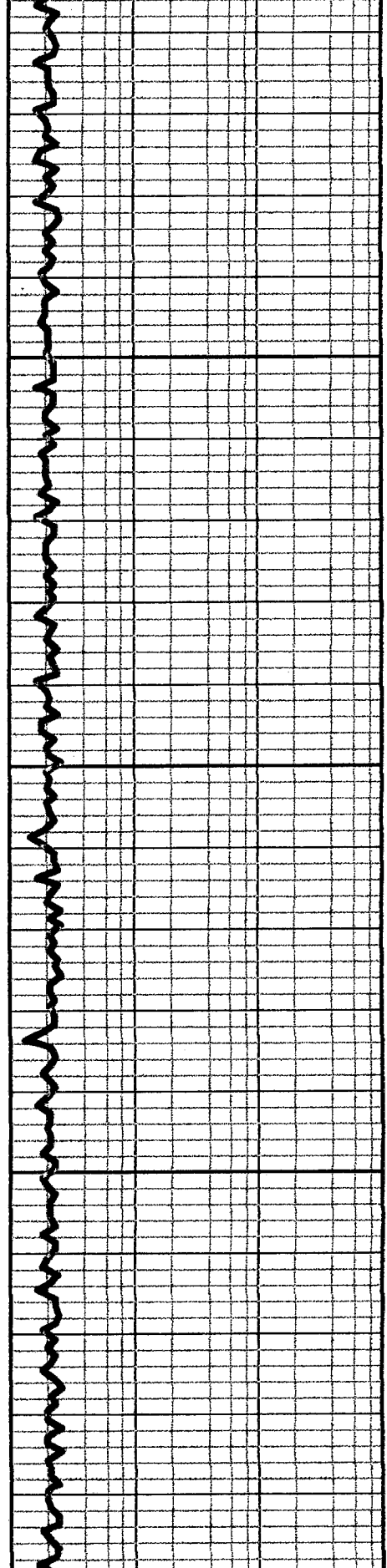
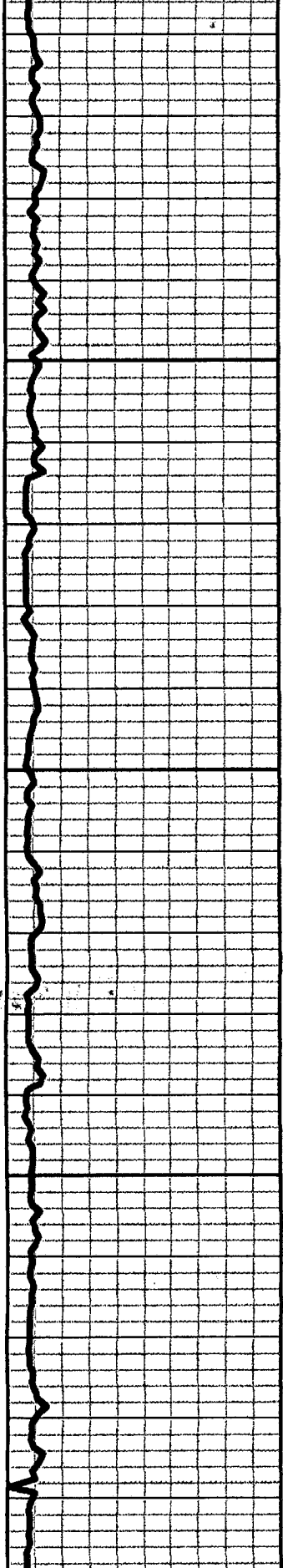
1550

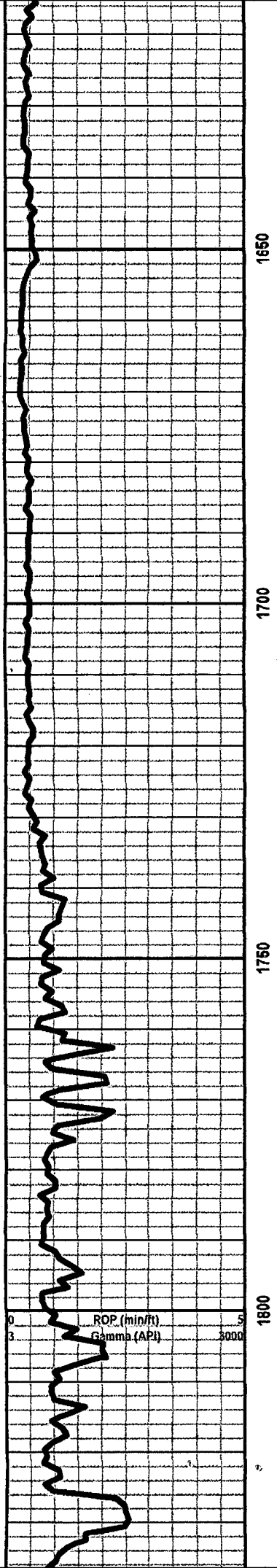
1600

ROP (min/ft) 5
Gamma (API) 3000

TG C1-C5 10 100 10

TG C1-C5 10 100 10





1650

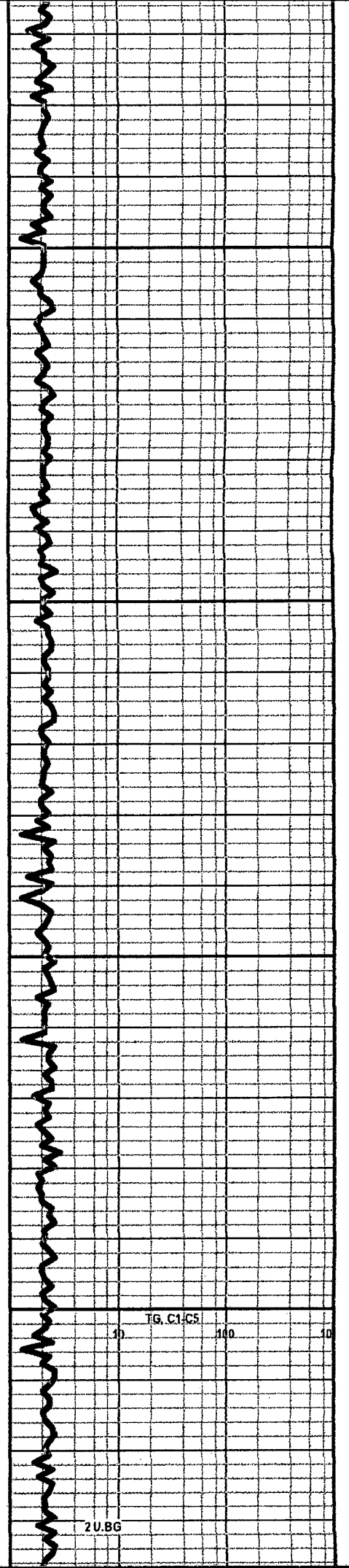
1700

1750

1800

ROP (min/ft)
Gamma (API)

5
5000



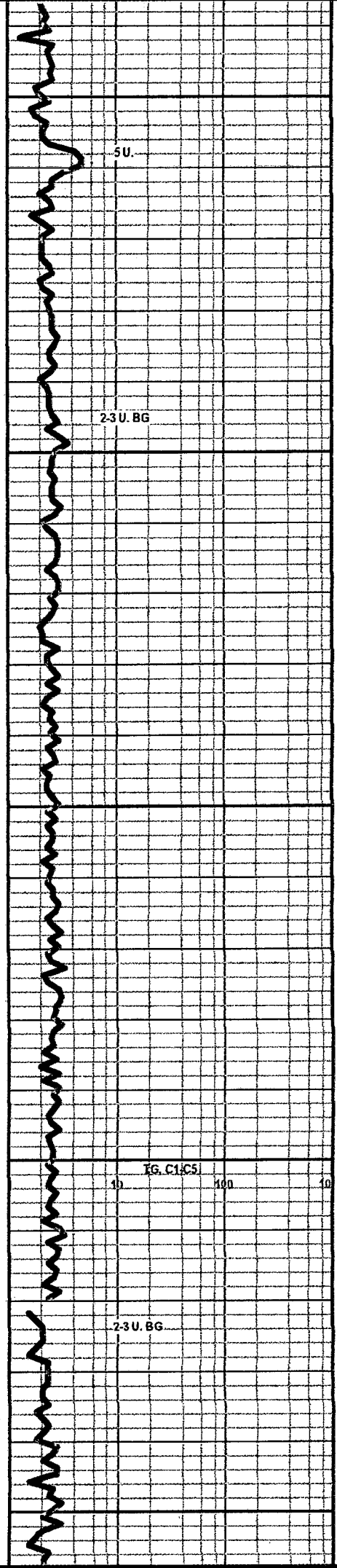
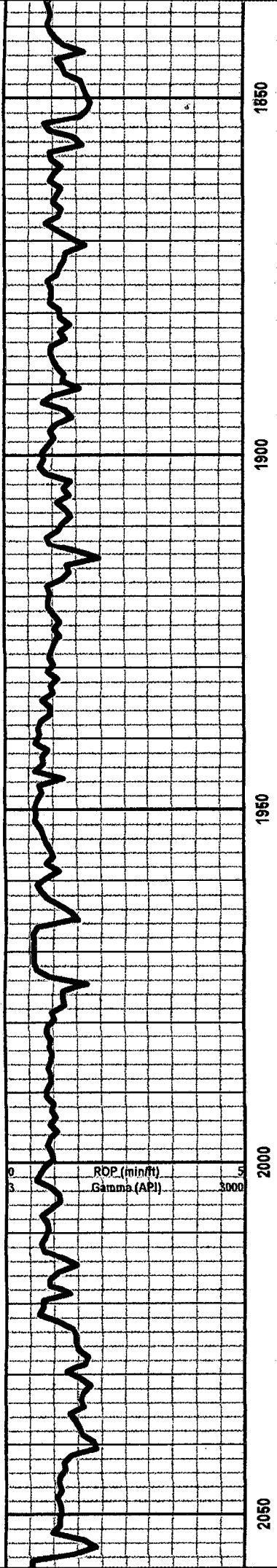
TG, C1/C5

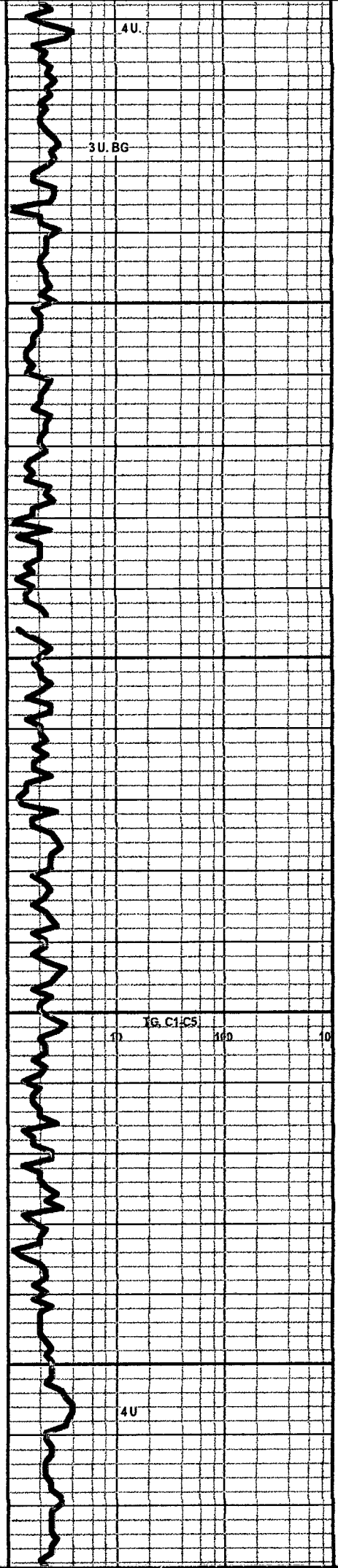
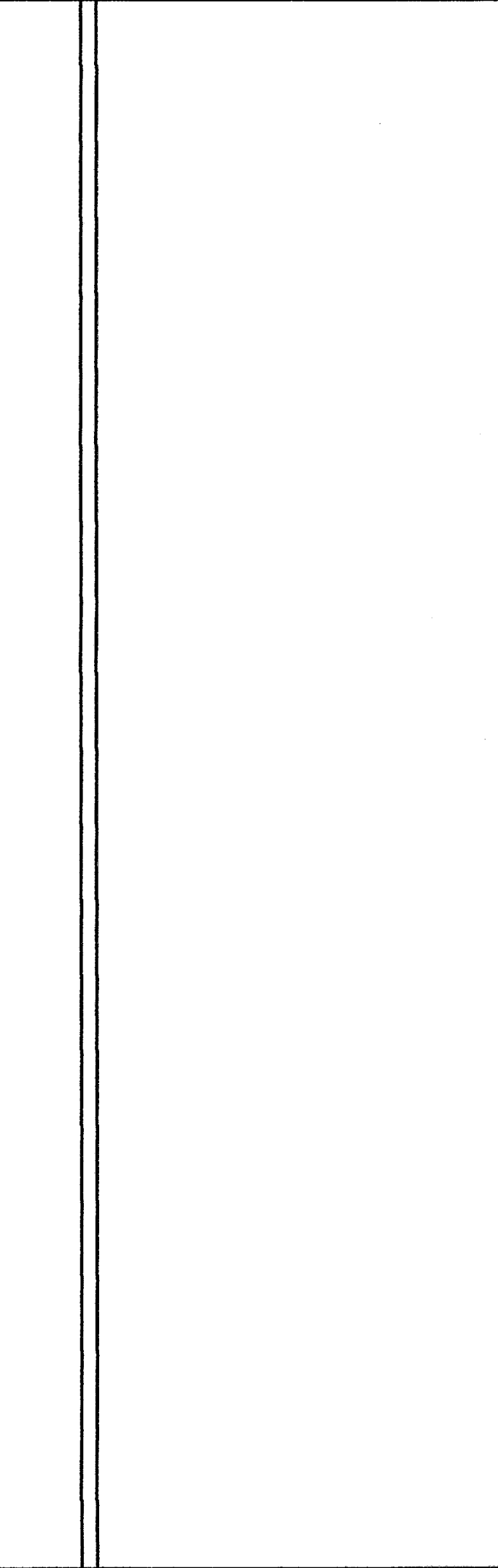
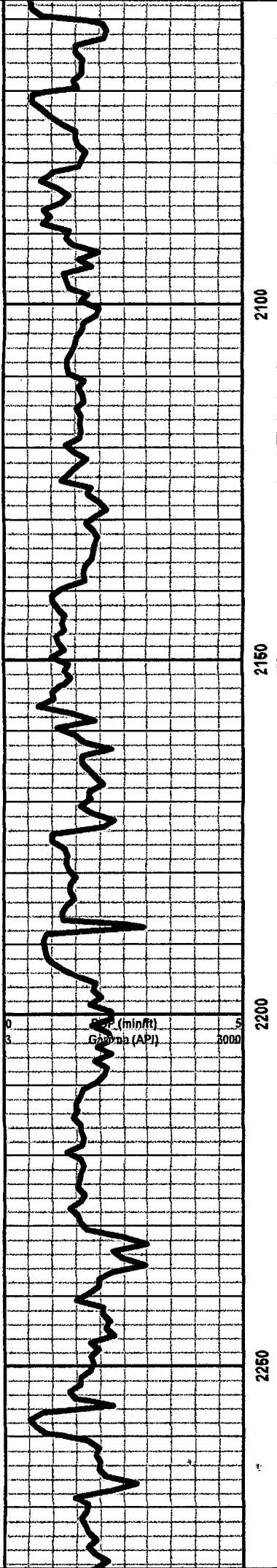
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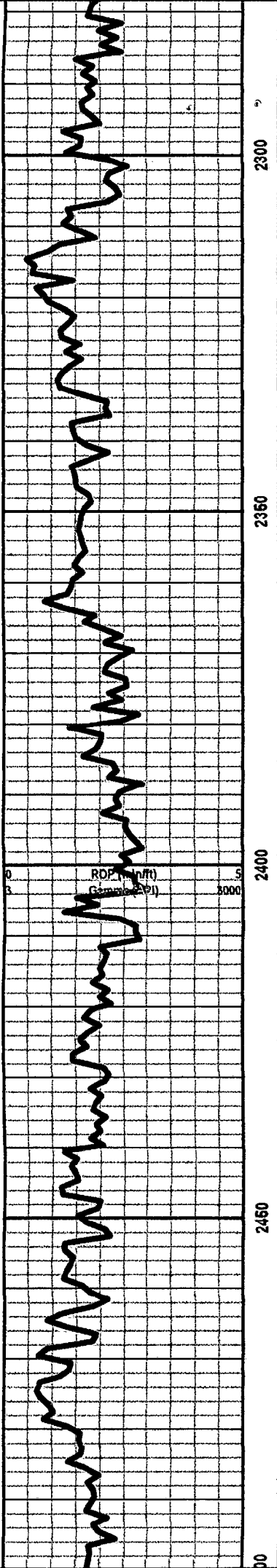
100

10

2U.BG







2300

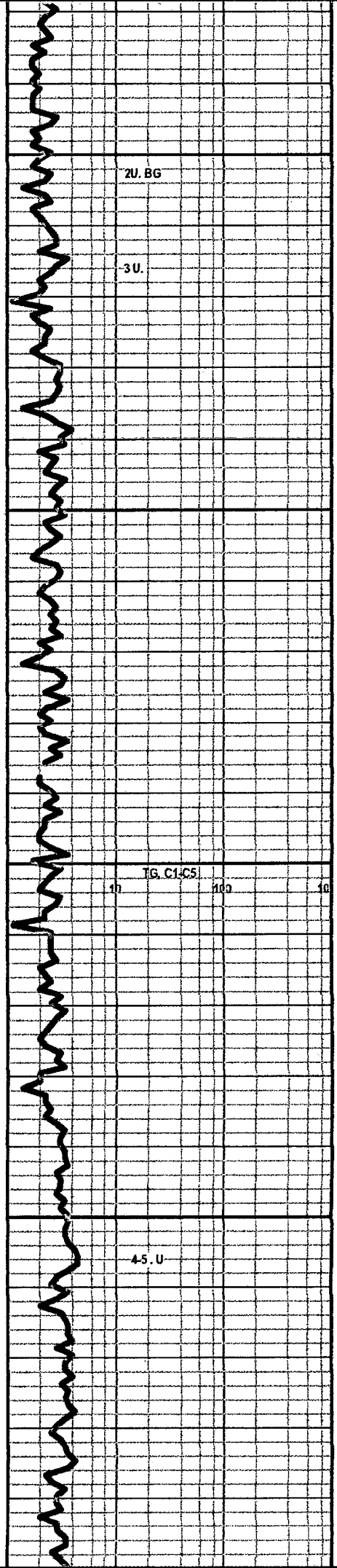
2360

2400

2460

2500

10:19 PM 04/30/2010



2U.BG

3U.

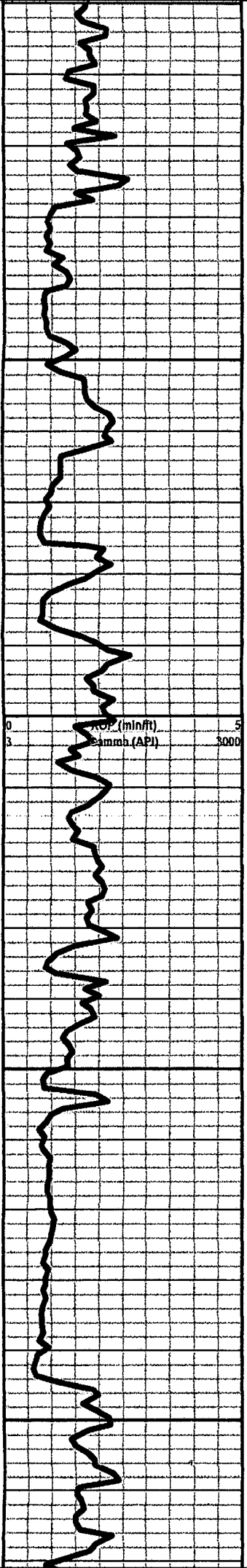
TG.C1.CS1

10

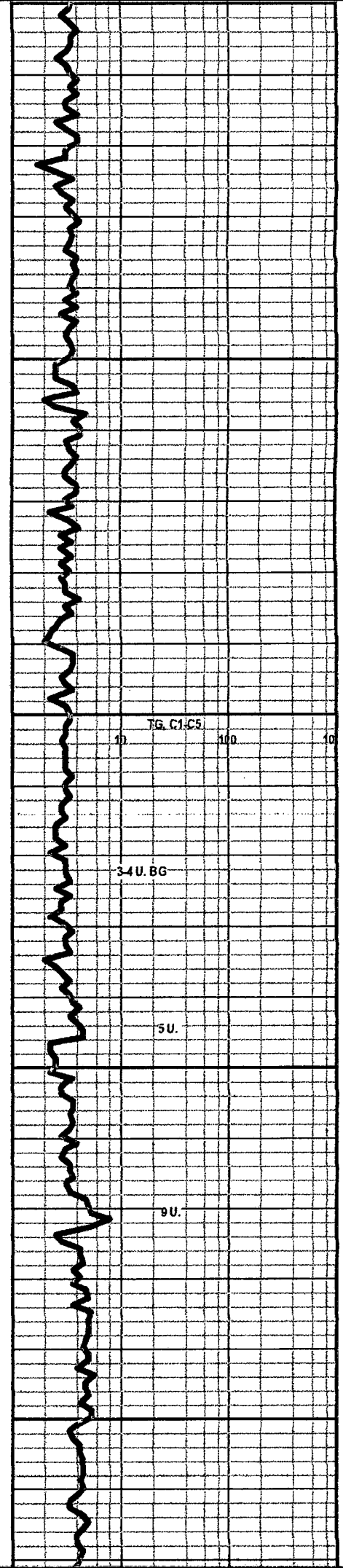
100

10

45.U



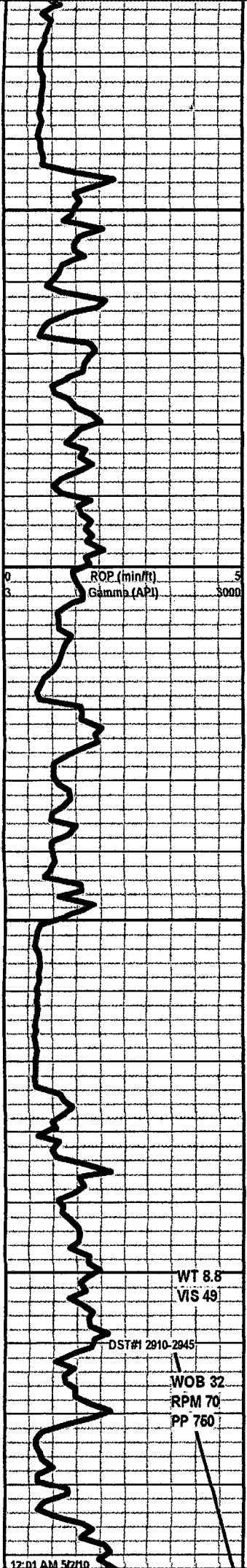
25
2550
2600
2650
2700



34U.BG

5U.

9U.



HOWARD 2873' -972'

LS- CRM LT TN, HD DNS, F-XLN, RE-XLN MTRX, FOSS FRGS IP, TR IMB SH, SLI TR CHLK, NO FLO, SLI TR PP POR, NO VIS SHOW

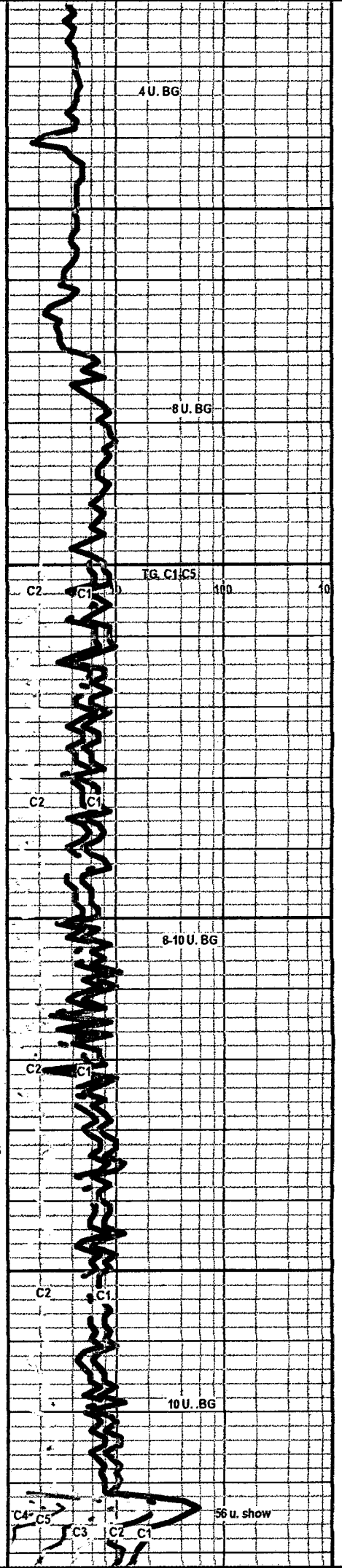
LS-OFF WHT TO TN, HD IP, MD-F-XLN, SLI RE-XLN MTRX SMLL CALC XLS IMB, TR FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

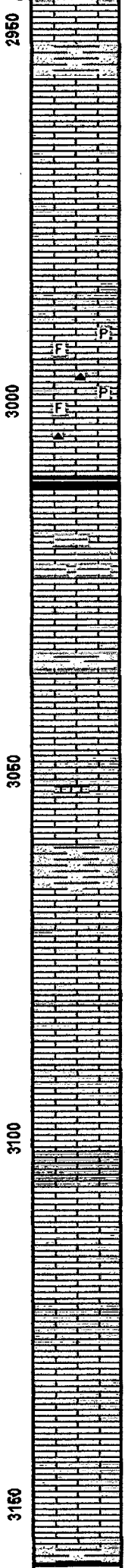
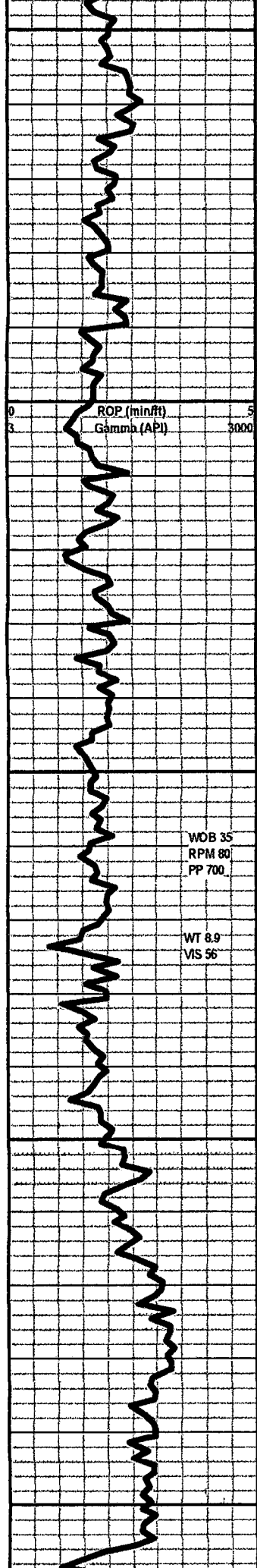
SEVERY 2920' -1019'

SH-MD-DK GY-FRM TO SLI SFT SLTY IP

TOPEKA 2930' -1029'

2932'-2936' LS-TN-DK BRN, DUE TO STN IN 80-90%, HD IP TO BRIT MD-XLN WRE-XLN MTRX FOSS FRGS IP ARDT





TO BRFT, MD-XLN, WRE-XLN MTRX, FOSS FRGS IP, ABDT
 EMBD FNL DISS PYR, DLL YEL GLD FLO THRU TO BRYT
 YEL GOLD FLO IN 20%, EXCEL MICROVUG TO VUG POR
 THRU, FR TO GD SCAT INTER-XLN PP POR, STRONG OIL
 ODOR, GD FLSH TO V-GD STRONG SLO STRM MILKY
 BLUE CUT DK TN STN ON DISH, ODOR AT PITS, STKS OF
 OIL IN MUD

LS-OFF WHT TO LT GY HD IP TO FRM, MOTT, F-XLN TO
 SUCRO S-CHLKY IP, TR PYR CLSTRS, TR IMB SH, NO FLO,
 NO VIS POR, NO SHOW

LS-OFF WHT CRM TN, HD DNS, MD-XLN TO TT SUCRO
 MTRX, TR BRN CHRT, TR FREE FOSS, TR SFT WHT CHLK,
 NO FLO, NO VIS POR, NO SHOW

SH-DK GY TO BLK, FRM, BLKY TO BLK SFT CARB

3018-3023 LS-OFF WHT CRM TN GY, MOTT HD DNS, MD TO F-XLN, SUCRO
 IP, IMB CHLK, LMNTD GY SH THRU, TR GY CHRT, NO FLO, NO VIS POR,
 NO SHOW

3023-3030 LS-CRM BUFF HD DNS, SUCRO TO MD-XLN, RE-XLN MTRX,
 FOSS FRGS SCAT, IMB SMLL CALC XLS, TR IMB SH, NO FLO, TR FRACT
 POR, NO VIS CUT, LGHT ODOR

LeCOMPTON 3036' - 1135'

LS- OFF WHT CRM TN, HD DNS F TO V/F-XLN, SUCRO
 S-CHLKY, IMB FOSS FRGS IP HVY TR IMB GY SH, TR TN
 BRN CHRT, NO FLO, NO VIS POR, NO VIS SHOW

SH- GY TO DK GY, FRM BLKY, V/CALC TO LMY,

LS- CRM TN OFF WHT, HD DNS TO BRTT, F-XLN TO TT
 SUCRO MTRX, TR IMB SH TR FREE FOSS TR IMB SH, SLI
 TR FRM CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

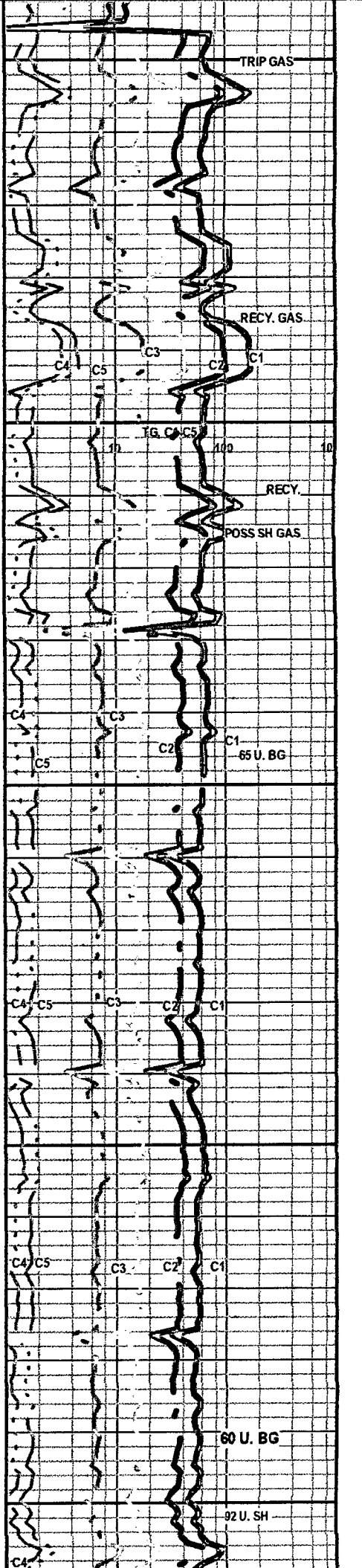
LS- OFF WHT CRM TN HD DNS, F/XLN TO TT SUCRO MTRX,
 FOSS FRGS IP TR FREE FOSS ABDT BRN GY CHRT, TR SFT
 WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN BFF, HD DNS F TO V/F-XLN, RE-XLN,
 S-SUCRO IP, SMLL CALC XLS, TR DISS PYR, NO FLO, NO
 VIS POR, NO VIS SHOW

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

HEEBNER 3155-1254

SH- BLK SFT CARB TO DK GY SPLNTY



SH- GRN TO DK GRN, FRM BLKY, SLI WXY TXT

LS- OFF WHT GRN, HD DNS TO BRTT IP, F-XLN TO SUCRO S-CHLKY MTRX, TR IMB PYR, WHT CHRT, NO FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3193-1292

SH- LT GY TO GY LT GRN, VSFT GMMY TR SLTY

LANSING 3205-1304

3205 LS- CRM TN BRN(DUE TO OIL STN IN 10%), HD DNS, TR BRTT IP, MD TO VF-XLN, RE-XLN MTRX, TR SMLL CALC XLS. TR FOSS TR DISS PYR IP, DLL YEL GLD FLO, SPTTD BRIT YEL GLD FLO, V-PR MICRO VUG POR IN 10%, PR INTER-XLN POR, LT OIL ODOR, LIT FLSH CUT TO FR SLOW STRM CUT

3218-3220 LS- OFF WHT CRM TN, HD DNS, CRYPTO-VF-XLN, S-SUCRO IP, TR OF TN STN IN LESS THAN 2%, NO FLO TO BRT YEL GLD FLO IN 2%, VPR TR OF MICRO VUG POR IP, NO FLSH, VWK GASSY CUT, NO ODOR

3238 LS- OFF WHT CRM BRN (DUE TO OIL STN), HD DNS VF-XLN, RE-XLN MTRX, TR SMLL CALC XLS. DLL YEL GLD TO SCAT BRT YEL GLD FLO IP, LT OIL ODOR, GD FLSH CUT TO GD SLOW STRM CUT, PR SCAT VUG POR TO TR OF MICRO PP POR IP (1 ROCK)

3242-3247 LS- CRM LT TN BRN DUE TO OIL STN IN 50 TO 60%, HD DNS IP TO BRTT, MD TO F-XLN, VIRE-XLN MTRX, VFOSS, IMB CALC XLS IP, DLL YEL FLO THRU TO BRT YEL GLD FLO SCAT THRU, PR TO FR TO GD SCAT INTER-FOSS POR IP, FR SCAT MICRO PP POR TO NO POR IP, LV OIL STN IN 60%, GD INST FLSH CUT, EXCEL SLOW STRM RCH MLKY BLUE CUT, STRNG OIL ODOR, TN STN ON DSH

3270-3276 LS- TN BRN (OIL STN IN 90 TO 100%), HD TT IP TO V-BRTT, V-SRS SUCRO MTRX IP TO MD-XLN, RE-XLN MTRX, FOSS FRGS SCAT THRU, ABDT IMB SMLL ANG LM GR, DLL YEL GLD FLO THRU TO ABDT SCAT BRT YEL GLD FLO IP, VISTRNG OIL ODOR, BRN OIL STN IN 90%, GD VS INTER-XLN POR THRU FR VIS INTER-FOSS POR IP, P TO FR SCAT MICRO VUG POR, EXCEL FLSH CUT, V GD TO EXCEL SLOW STRM MLKY BLUE CUT, TN LCH ON DSH

LS- CRM TN BRN DK BRN DUE TO STN IN 80 TO 90%, HD TO V-BRTT MD-XLN RE-XLN MTRX, ABDT IMB SMLL ANG LM GR, TR OF FOSS FRGS IP, DLL YEL GLD TO BRT YEL GLD FLO THRU, PR TO FR TO V GD INTER-XLN POR, GD MICRO VUG TO FR VUG POR SCAT, TR IMB OOL IP, ABDT IMB SMLL CALC XLS IN POR, V STRNG OIL ODOR, EXCEL INST FLSH CUT TO EXCEL STRNG SLOW STRM MLKY BLUE CUT, BRN STN ON DSH

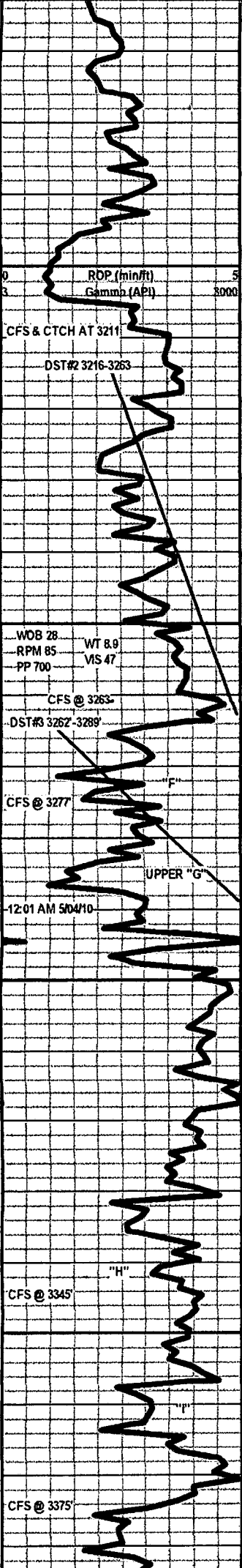
3296 TO 3298 LS- WHT OFF WHT, HD TO MD HD, F-XLN TO SUCRO SUB CHLKY MTRX, ABDT SFT CHLK IP, NO FLO, SL TR VPR VUG POR, NO VIS SHOW

LS- CRM LT TN TO TN HD DNS, VF TO CRPTO-XLN, RE-XLN IP TR WHT CHRT, NO FLO, NO VIS POR, NO VIS SHOW

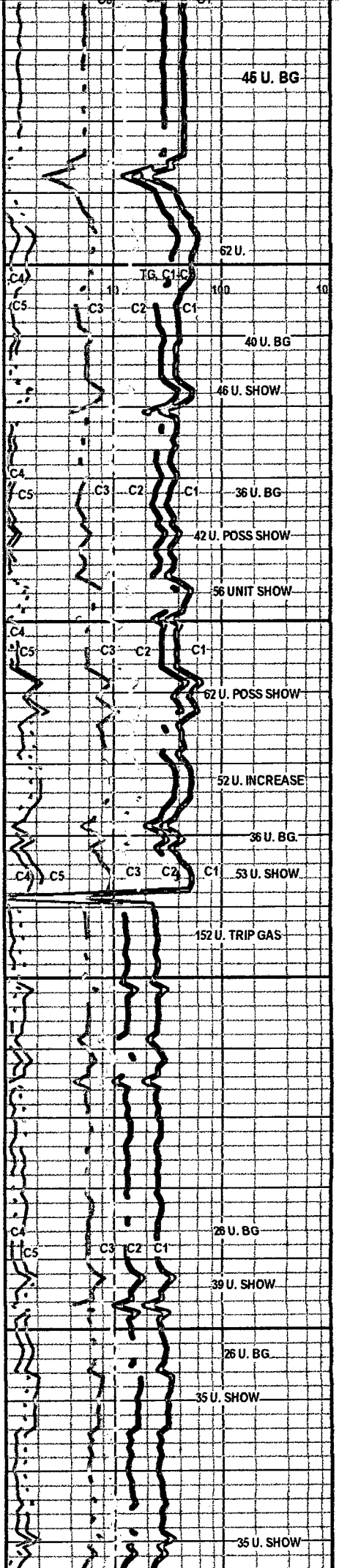
3341 TO 3342 LS- CRM LT TN TN LT BRN(OIL STN IN 10%), HD DNS, F-VF-XLN, SLI RE-XLN IP, TR CALC XLS IN VUGS, DLL YEL GLD IP, BRIT YEL GLD SCAT FLO IP, TR PR VIS MICRO VUG POR(ISOLATED VUGS), NO FLSH CUT TO PR-FR SLO STREAM CUT, LT OIL ODOR

3358 TO 3364 LS- CRM TN GY- HD DNS MOTT, (TN DK BRN OIL STN SCAT IN 50%) LVOIL W/ SLPHR ODOR IN ISOLATED VUGS, F-CRYPTO-XLN, RE-XLN MTRX, SLI TR CHRT, SLI TR FOSS FRGS IP, TR IMB SH IP, SLI TR WHT CHLK IP, DLL YEL GLD FLO IP TO SCAT BRIT YEL GLD FLO SCAT THRU, PR VIS SCAT MICROVUG POR IP, TO PR INTER-XLN POR IP, STRNG OILY SLPHR ODOR, GD FLSH CUT TO GD TO V GD SLO STREAM CUT, TN LCH ON DISH

3381 LS- CRM LT TN (TN STN IN 20-30%) HD TT TO TR BRITT, MD-F-XLN, RE-XLN MTRX, TR SMLL OOL TO MD OOL IP, TR FOSS FRGS IP, DLL YEL



3200
3250
3300
3350



GLD FLO SCAT THRU, PR SCAT MICRO VUG POR IP, SMLL CALC XLS IN VUGS, TR PR INTEROOL POR IP, FR OIL ODOR, WK FL SH TO FR SLO STRM MLKY BLU CUT.

3389 TO 3392 LS- CRM LT TN TO TN HD DNS TO BR TT F TO VF- XLN, SUCRO S-CHLKY IP, TR TN CHRT, NO FLO, NO VIS POR, NO VIS SHOW

3410 TO 3414 LS- CRM LT TN TO TN BRN (DUE TO STN IN 15%) HD DNS TR BR TT, MD- XLN RE- XLN MTRX, TR FOSS SMLL CALC XLS IMB IP, DLL YEL FLO TO SCAT BR T YEL GLD FLO IP, FR FL SH CUT TO FR SLOW STRM CUT IP, LT ODOR, 2 ROCKS

BKC 3426' - 1525'

SH- RD- FRM BLKY IP V/ CALC IP W/ IMBD S- RND TO RND CLR QURTZ GRNS IP, NO FLO, NO VIS POR, NO VIS SHOW

LS CRM LT TN- HD DNS F- TO MD TO CRYPTO- XLN, V/ RE- XLN MTRX, TR FOSS IP, HVY TR IMBD SMLL TO MD RND CLR QURTZ GRNS SCAT THRU, TR WHT WTHRD CHRT, NO FLO, NO VIS POR, NO VIS SHOW

SH- RED- SFT GMMY, SLI TR SLTY IP

SH- RED TO DK RED, FRM BLKY, CALC IP TR OF IMBD S- RND TO RND SMLL TO MD CLR QURTZ GRNS, NO FLO, NO VIS POR, NO VIS SHOW

SH- RED YEL, FRM BLKY TO SPLNTY

SH- RED DK RED GMMY TO FRM IP, ABDT WHT YEL CHRT

ARBUCKLE 3495'-1594'

3495'-3498' DOLO- OFF WHT TN BRN (OIL STN IN 80%), HD BR TT, V- CRS SUCRO MTRX ABDT IMB SMLL TO MD TR LRG DLLO GR THRU, V- DLL YEL GLD FLO THRU SLT TR BR T YEL GLD FLO IP, PR FR TO TR GD INTR XLN POR THRU TO NO POR LT OIL ODOR WET, GD OIL ODOR DRY, FR FL SH TO GD SLOW STRM MLKY BLUE CUT, LT TN STN ON DSH

3498'-3505' DOLO- DK TN BRN (DUE TO OIL STN IN 70% TO 80%), F- XLN TO CRS SUCRO MTRX ABDT IMB SMLL TO MD TR CRS ANG DOLO GRNS, DLL YEL GLD THRU, BR T YEL GLD FLO SCAT THRU, PR FR TO GD TR V GD INTER- XLN POR, SCAT MICRO VUG POR IP, FR FL SH TO GD SLOW STRM MLKY BLUE CUT, OIL STN ON DSH, GD STRNG OIL ODOR

DOLO- OFF WHT CRM HD DNS TO BR TT, F- XLN TO CRS SUCRO MTRX, ABDT IMB S- ANG CLR QURTZ GRNS, ABDT IMB ANG DOLO GRNS, NO VIS POR TO GD SCAT MICRO VUG POR V GD INTER- XLN POR, DLL YEL FLO, NO VIS CUT, NO VIS SHOW

DOLO- OFF WHT CRM HD DNS TO BR TT, V SUCRO MTRX, ABDT IMB F GRN ANG DOLO GRNS, HVY TR SFT CHLKY IP, LT YEL MIN FLO, P/ FR GD INTER- XLN POR, NO SHOW

DOLO- OFF WHT CRM HD DNS TO BR TT, F- XLN TO CRS SUCRO MTRX, ABDT IMB S- ANG CLR QURTZ GRNS, ABDT IMB ANG DOLO GRNS, NO VIS POR TO FR SCAT MICRO VUG POR FR INTER- XLN POR, DLL YEL FLO, NO VIS CUT, NO VIS SHOW

DOLO- WHT OFF WHT CRM, MD- XLN TO SUCRO, ABDT IMB CHLK IP, TR LRG ANG S- ANG QURTZ GRNS, TR KAOL, NO FLO, PR TO FR INTER- XLN POR, NO VIS CUT

DOLO- OFF WHT TO CRM HD DNS TR BR TT, MD/ F- XLN TO SUCRO IP, MICRO OOL, HVY TR SMLL CLR QURTZ GRN IMB IP, NO FLO, PR VIS SCAT MICRO VUG TO POSS OOL/ MLD POR IP TO NO POR, NO VIS CUT, NO VIS SHOW

DOLO- CRM TN HD DNS TO BR TT IP, F SUCRO MTRX TO F- XLN, HVY TR SFT CHLK, HV TR KAOL, NO FLO, TR COR INTER- XLN POR, NO VIS SHOW

ROP (min/ft)
Gamma (API)

WOB 28
RPM 85
PP 700

WT 9.2
VIS 44
WL 10.2

CFS @ 3464

CFS @ 3486

DST# 3496-3505

CFS @ 3498

CFS @ 3505

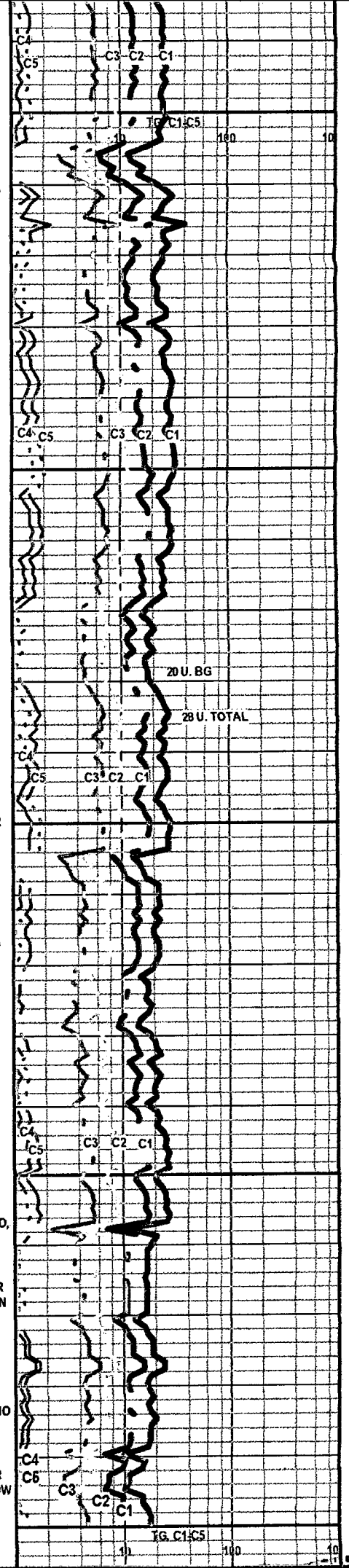
12:01 AM 4/05/10

WOB 28
RPM 85
PP 750

WT 9.2
VIS 50
LCM 1

ROP (min/ft)
Gamma (API)

3400
3450
3500
3550
3600



20 U. BG

28 U. TOTAL

IG C1/C5

R.T.D. 3600

R.T.D. 3600

R.T.D 3600

CTCH 1.5 HRS.

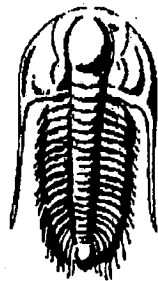
TRIP OUT FOR LOGS

WEATHERFORD/LIBERAL, KS

SAMPLES WILL SENT
TO KGS, TIM HEDRICK

THANKS FOR CHOOSING EARTH TECH

50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste. 700
Denver Co. 80202

ATTN: Tom Fertal

34-15s-17w Ellis KS

Jacobs#1-34

Start Date: 2010.05.01 @ 20:02:59

End Date: 2010.05.02 @ 02:22:59

Job Ticket #: 36878 DST #: 1

**KCC
AUG 2 0 2010
CONFIDENTIAL**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

**RECEIVED
AUG 2 3 2010
KCC WICHITA**

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

34-15s-17w Ellis KS

DST # 1

Topoka

2010.05.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36878

DST#: 1

ATTN: Tom Fertal

Test Start: 2010.05.01 @ 20:02:59

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:25:14

Time Test Ended: 02:22:59

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **2910.00 ft (KB) To 2945.00 ft (KB) (TVD)**

Reference Elevations: 1901.00 ft (KB)

Total Depth: 2945.00 ft (KB) (TVD)

1893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8167 Inside

Press@RunDepth: 41.28 psig @ 2911.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.01

End Date:

2010.05.02

Last Calib.: 2010.05.02

Start Time: 20:03:04

End Time:

02:22:58

Time On Btm: 2010.05.01 @ 21:24:59

Time Off Btm: 2010.05.02 @ 00:41:14

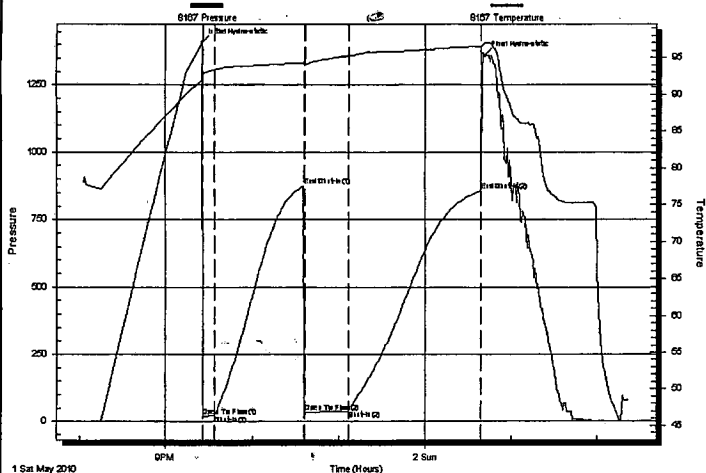
TEST COMMENT: IF: Strong blow . B.O.B. in 6 mins.

IS: No blow .

FF: Strong blow . B.O.B. in 3 secs.

FSI: No blow .

Pressure vs. Time



PRESSURE SUMMARY

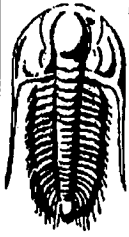
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1408.97	92.00	Initial Hydro-static
1	19.55	92.76	Open To Flow (1)
10	24.20	93.32	Shut-In(1)
71	875.60	94.28	End Shut-In(1)
72	34.51	93.98	Open To Flow (2)
102	41.28	95.23	Shut-In(2)
194	856.98	96.48	End Shut-In(2)
197	1359.85	96.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	GOCM 20%g 23%o 57%m	1.12
0.00	1825 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36878

DST#: 1

ATTN: Tom Fertal

Test Start: 2010.05.01 @ 20:02:59

Tool Information

Drill Pipe:	Length: 2906.00 ft	Diameter: 3.80 inches	Volume: 40.76 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 40.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	2910.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2883.00	
Shut in tool	5.00			2888.00	
HMV	5.00			2893.00	
JarS'	5.00			2898.00	
Safety Joint	3.00			2901.00	
Packer	4.00			2905.00	28.00 Bottom Of Top Packer
Packer	5.00			2910.00	
Stubb	1.00			2911.00	
Recorder	0.00	8167	Inside	2911.00	
Recorder	0.00	8370	Outside	2911.00	
Perforations	29.00			2940.00	
Bullnose	5.00			2945.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36878

DST#: 1

ATTN: Tom Fertal

Test Start: 2010.05.01 @ 20:02:59

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:

4200 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	GOCM 20%g 23%o 57%m	1.122
0.00	1825 ft.of GIP	0.000

Total Length:

80.00 ft

Total Volume:

1.122 bbl

Num Fluid Samples: 0

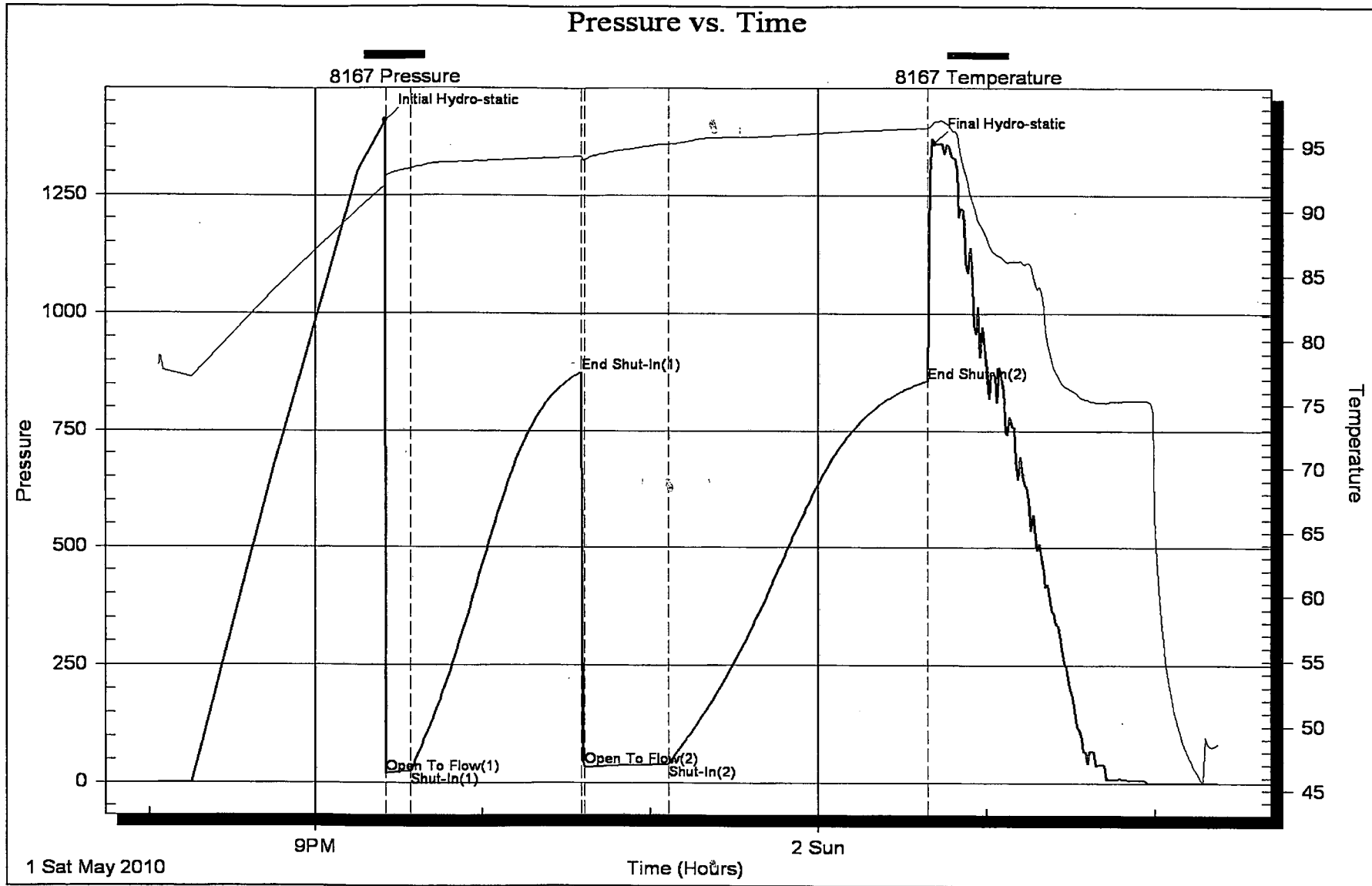
Num Gas Bombs: 0

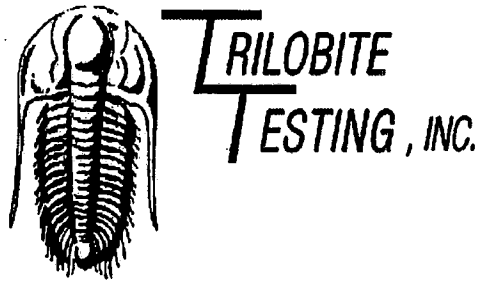
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste. 700
Denver Co. 80202

ATTN: Tom Fertal

34-15s-17w Ellis KS

Jacobs#1-34

Start Date: 2010.05.03 @ 00:27:58

End Date: 2010.05.03 @ 06:29:43

Job Ticket #: 36879 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2010.05.14 @ 13:34:51 Page 1

Samuel Gary Jr. & Assoc. Inc.

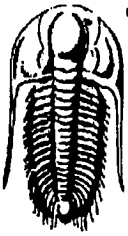
Jacobs#1-34

34-15s-17w Ellis KS

DST # 2

Lans. C - D

2010.05.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36879

DST#: 2

ATTN: Tom Fertal

Test Start: 2010.05.03 @ 00:27:58

GENERAL INFORMATION:

Formation: **Lans. C - D**

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

Time Tool Opened: 02:16:13

Time Test Ended: 06:29:43

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Interval: **3216.00 ft (KB) To 3263.00 ft (KB) (TVD)**

Reference Elevations: **1901.00 ft (KB)**

Total Depth: **3263.00 ft (KB) (TVD)**

1893.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

KB to GR/CF: **8.00 ft**

Serial #: **8167**

Inside

Press@RunDepth: **24.46 psig @ 3217.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.05.03**

End Date:

2010.05.03

Last Calib.: **2010.05.03**

Start Time: **00:28:03**

End Time:

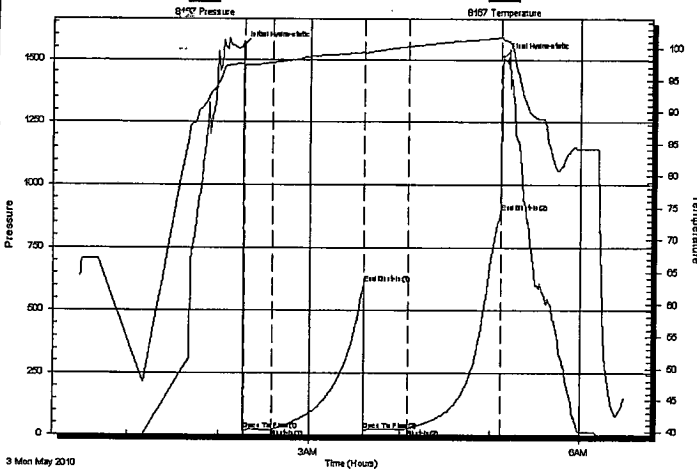
06:29:42

Time On Btm: **2010.05.03 @ 02:15:13**

Time Off Btm: **2010.05.03 @ 05:08:12**

TEST COMMENT: IF:Weak blow . 1/2 - 1".
IS:No blow .
FF:Weak blow . 1 - 1 1/2".
FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

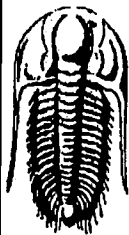
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1553.21	97.61	Initial Hydro-static
1	20.49	97.27	Open To Flow (1)
20	20.95	97.74	Shut-In(1)
81	609.86	99.36	End Shut-In(1)
81	19.26	99.24	Open To Flow (2)
110	24.46	100.28	Shut-In(2)
172	891.18	101.66	End Shut-In(2)
173	1511.92	101.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOCM6%g 7%o 87%m	0.21
0.00	50 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36879

DST#: 2

ATTN: Tom Fertal

Test Start: 2010.05.03 @ 00:27:58

Tool Information

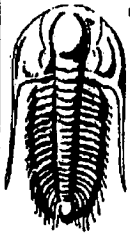
Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 44.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3216.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3189.00	
Shut in tool	5.00			3194.00	
HMV	5.00			3199.00	
Jars	5.00			3204.00	
Safety Joint	3.00			3207.00	
Packer	4.00			3211.00	28.00 Bottom Of Top Packer
Packer	5.00			3216.00	
Stubb	1.00			3217.00	
Recorder	0.00	8167	Inside	3217.00	
Recorder	0.00	8370	Outside	3217.00	
Perforations	41.00			3258.00	
Bullnose	5.00			3263.00	47.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36879

DST#: 2

ATTN: Tom Fertal

Test Start: 2010.05.03 @ 00:27:58

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:

7000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GOCM 6%g 7%o 87%m	0.210
0.00	50 ft. of GIP	0.000

Total Length:

15.00 ft

Total Volume:

0.210 bbl

Num Fluid Samples: 0

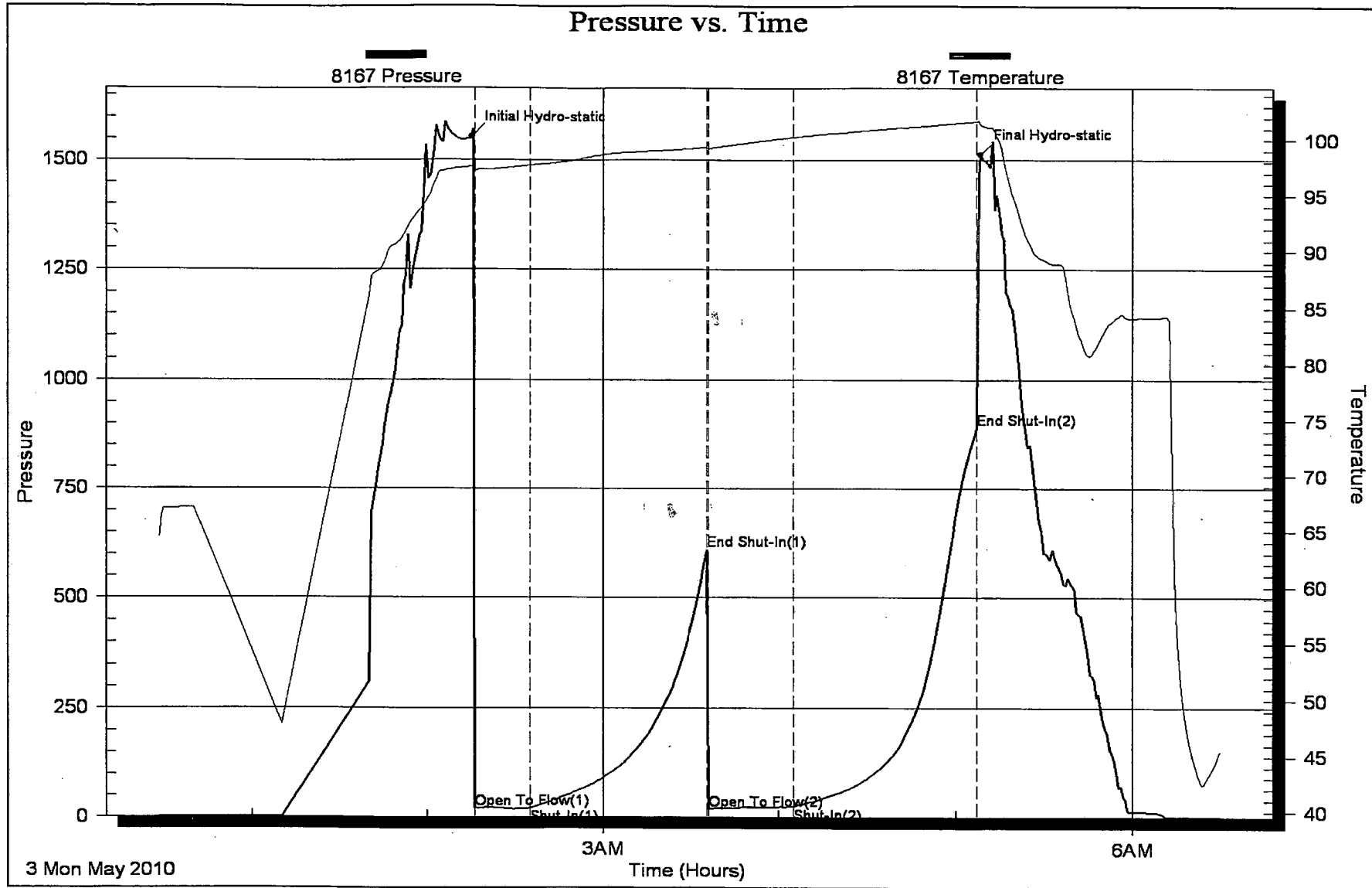
Num Gas Bombs: 0

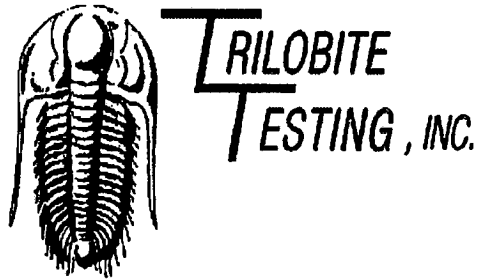
Serial #: none

Laboratory Name:

Laboratory Location: -

Recovery Comments:





DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste. 700
Denver Co. 80202

ATTN: Tom Fertal

34-15s-17w Ellis KS

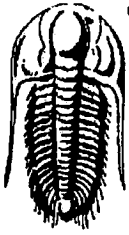
Jacobs#1-34

Start Date: 2010.05.03 @ 14:27:12

End Date: 2010.05.03 @ 21:30:12

Job Ticket #: 36880 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36880

DST#: 3

ATTN: Tom Fertal

Test Start: 2010.05.03 @ 14:27:12

GENERAL INFORMATION:

Formation: **Lans. F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:52:42

Time Test Ended: 21:30:12

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3262.00 ft (KB) To 3289.00 ft (KB) (TVD)**

Reference Elevations: 1901.00 ft (KB)

Total Depth: 3289.00 ft (KB) (TVD)

1893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8167

Inside

Press@RunDepth: 26.45 psig @ 3263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.03

End Date:

2010.05.03

Last Calib.: 2010.05.03

Start Time: 14:27:17

End Time:

21:30:11

Time On Btm: 2010.05.03 @ 15:48:57

Time Off Btm: 2010.05.03 @ 19:55:56

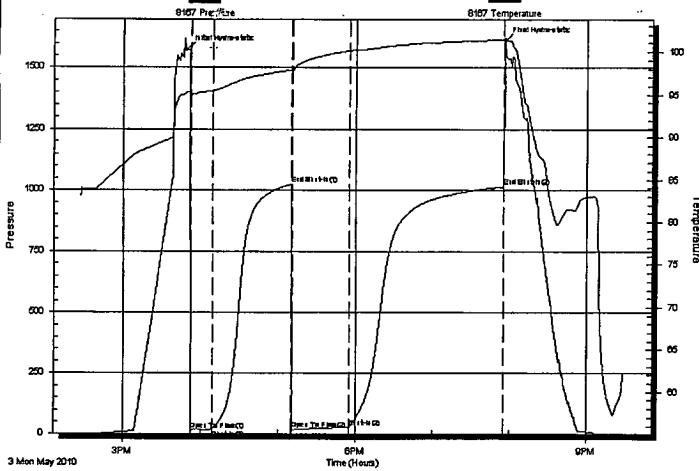
TEST COMMENT: IF:Weak blow . 1/2 - 2 1/2".

ISI:No blow .

FF:Fair to strong blow . B.O.B. in 21 mins.

FSI:Weak blow . 1/4" Dead in 20 mins.

Pressure vs. Time



PRESSURE SUMMARY

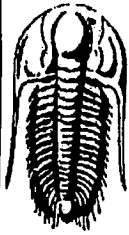
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.39	95.17	Initial Hydro-static
4	16.58	94.76	Open To Flow (1)
21	16.93	95.49	Shut-In(1)
82	1025.13	97.90	End Shut-In(1)
82	18.79	97.66	Open To Flow (2)
126	26.45	100.15	Shut-In(2)
246	1015.18	101.45	End Shut-In(2)
247	1609.16	101.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	W&MCO 26%w 36%m 38%o	0.49
0.00	335 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700,
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36880

DST#: 3

ATTN: Tom Fertal

Test Start: 2010.05.03 @ 14:27:12

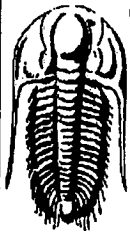
Tool Information

Drill Pipe:	Length: 3255.00 ft	Diameter: 3.80 inches	Volume: 45.66 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 45.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3262.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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

C.O. Sub	1.00			3235.00	
Shut in tool	5.00			3240.00	
HMV	5.00			3245.00	
Jars	5.00			3250.00	
Safety Joint	3.00			3253.00	
Packer	4.00			3257.00	28.00 Bottom Of Top Packer
Packer	5.00			3262.00	
Stubb	1.00			3263.00	
Recorder	0.00	8167	Inside	3263.00	
Recorder	0.00	8370	Outside	3263.00	
Perforations	21.00			3284.00	
Bullnose	5.00			3289.00	27.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36880

DST#: 3

ATTN: Tom Fertal

Test Start: 2010.05.03 @ 14:27:12

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:

8000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	W&MCO 26%w 36%m 38%o	0.491
0.00	335 ft. of GIP	0.000

Total Length: 35.00 ft

Total Volume: 0.491 bbl

Num Fluid Samples: 0

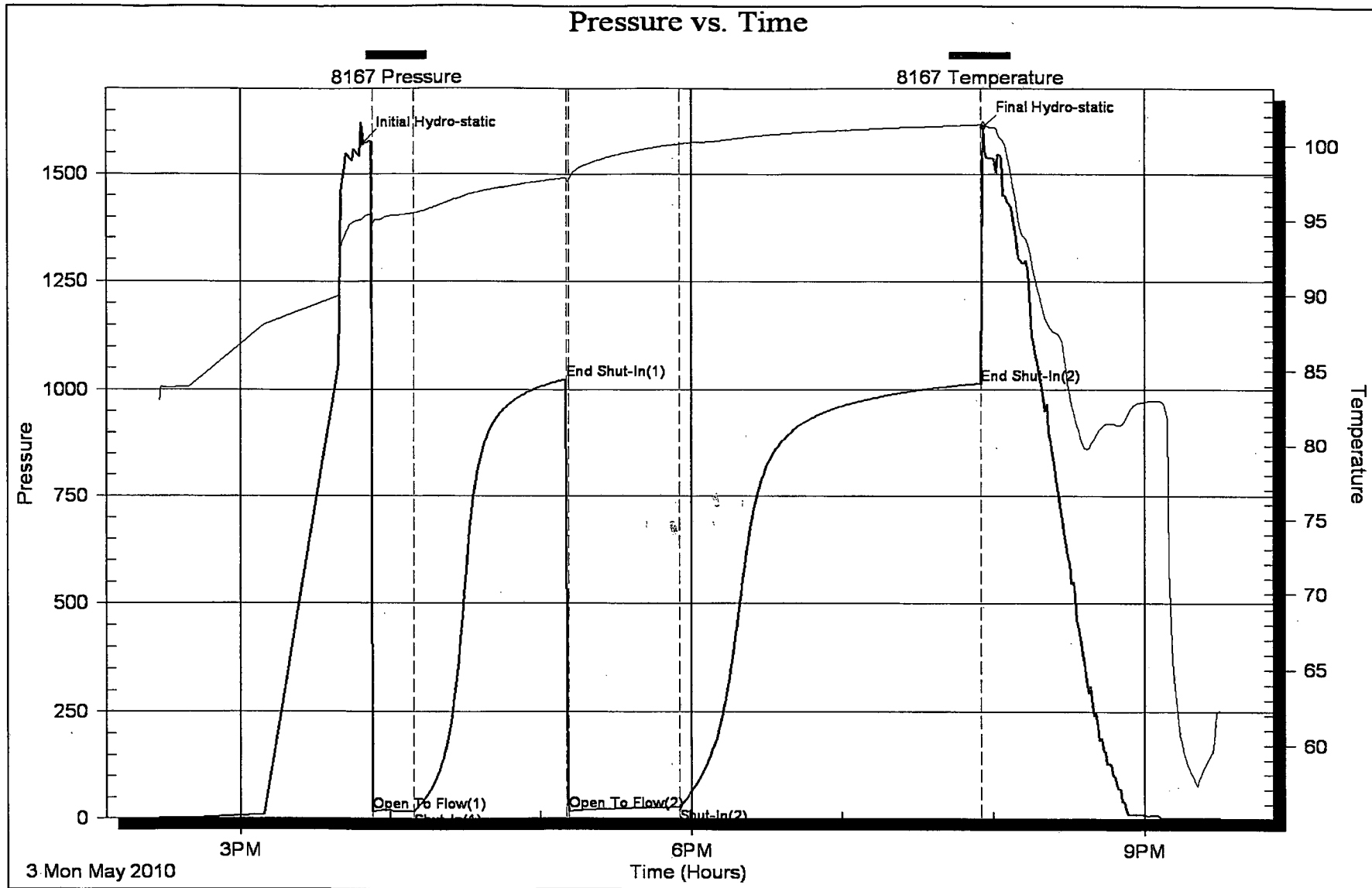
Num Gas Bombs: 0

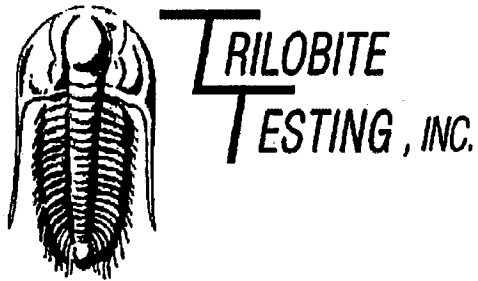
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

1515 Wynkoop, Ste. 700
Denver Co. 80202

ATTN: Tom Fertal

34-15s-17w Ellis KS

Jacobs#1-34

Start Date: 2010.05.04 @ 22:52:35

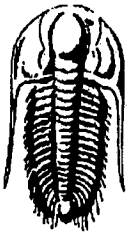
End Date: 2010.05.05 @ 07:10:20

Job Ticket #: 36881 DST #: 4

Trilobite Testing, Inc.

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36881

DST#: 4

ATTN: Tom Fertal

Test Start: 2010.05.04 @ 22:52:35

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:14:35

Time Test Ended: 07:10:20

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **3496.00 ft (KB) To 3505.00 ft (KB) (TVD)**

Reference Elevations: 1901.00 ft (KB)

Total Depth: 3505.00 ft (KB) (TVD)

1893.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8167 Inside

Press@RunDepth: 110.72 psig @ 3497.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.05.04

End Date: 2010.05.05

Last Calib.: 2010.05.05

Start Time: 22:52:40

End Time: 07:10:19

Time On Btm: 2010.05.05 @ 00:12:05

Time Off Btm: 2010.05.05 @ 05:35:20

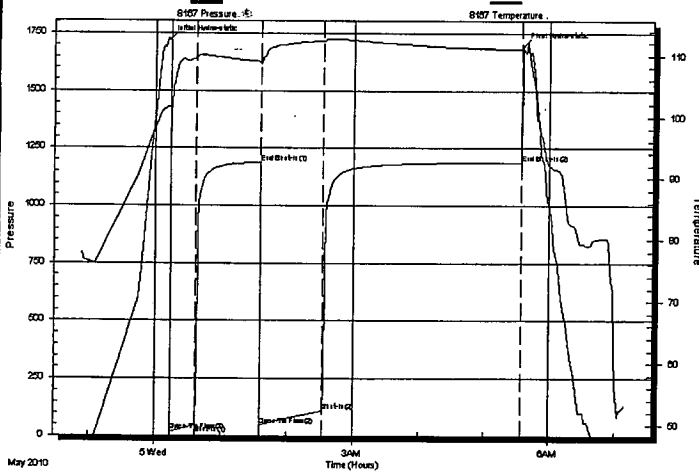
TEST COMMENT: IF: Fair blow . Slow increase to 6".

IS: No blow .

FF: Fair to strong blow . B.O.B. in 49 mins.

FS: No blow .

Pressure vs. Time



PRESSURE SUMMARY

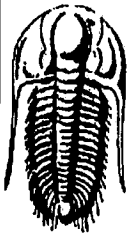
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.87	101.67	Initial Hydro-static
3	19.87	101.16	Open To Flow (1)
24	45.46	109.64	Shut-In(1)
83	1189.18	109.03	End Shut-In(1)
84	47.80	108.70	Open To Flow (2)
141	110.72	112.27	Shut-In(2)
323	1190.09	110.99	End Shut-In(2)
324	1694.17	111.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Clean oil	0.28
62.00	MW /w o specs 9% m 91% w	0.87
125.00	SW / Rw .20 ohms @ 55 deg	1.75

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36881

DST#: 4

ATTN: Tom Fertal

Test Start: 2010.05.04 @ 22:52:35

Tool Information

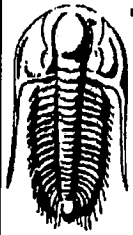
Drill Pipe:	Length: 3475.00 ft	Diameter: 3.80 inches	Volume: 48.75 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 48.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3496.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3469.00	
Shut in tool	5.00			3474.00	
HMV	5.00			3479.00	
Jars	5.00			3484.00	
Safety Joint	3.00			3487.00	
Packer	4.00			3491.00	28.00 Bottom Of Top Packer
Packer	5.00			3496.00	
Stubb	1.00			3497.00	
Recorder	0.00	8167	Inside	3497.00	
Recorder	0.00	8370	Outside	3497.00	
Perforations	3.00			3500.00	
Bullnose	5.00			3505.00	9.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc. Inc.

Jacobs#1-34

1515 Wynkoop, Ste. 700
Denver Co. 80202

34-15s-17w Ellis KS

Job Ticket: 36881

DST#: 4

ATTN: Tom Fertal

Test Start: 2010.05.04 @ 22:52:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33.3 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Clean oil	0.281
62.00	MW /w o specs 9% m 91% w	0.870
125.00	SW / Rw .20 ohms @ 55 deg	1.753

Total Length:

207.00 ft

Total Volume:

2.904 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

